

Herausgegeben von GEORG BILKENROTH

## Dreizehnsprachiges Wörterbuch für Gebirgsmechanik

deutsch — bulgarisch — englisch — französisch — polnisch — portugiesisch  
rumänisch — russisch — schwedisch — serbokroatisch — spanisch — tschechisch  
ungarisch

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Im Jahre 1965 wurde das erste Wörterbuch, das „Sechssprachige Wörterbuch für Gebirgsdruckfragen“ veröffentlicht. Obwohl dieses Wörterbuch als außerordentlich spezielle Wörtersammlung angesehen wurde, war die erste Auflage binnen kürzester Zeit vergriffen. Auch ein folgender zweiter Nachdruck fand starke Nachfrage, so daß dieses „Sechssprachige Wörterbuch“ schon seit Mitte 1966 nicht mehr im Buchhandel zu erhalten war. Aus diesem Grunde entschloß sich das Internationale Büro für Gebirgsmechanik bei der Akademie der Wissenschaften der DDR, eine Neufassung dieses Wörterbuches herauszugeben. Der außerordentlich gute Anklang, den das erste Wörterbuch gefunden hatte, war für viele im Internationalen Büro für Gebirgsmechanik mitarbeitende Länder der Anlaß, die Berücksichtigung ihrer Sprache in dieser vorgesehenen Neufassung vorzuschlagen. Dies ist der Grund, daß sich das neue Wörterbuch zu einem „Dreizehnsprachigen Wörterbuch der Gebirgsmechanik“ ausgeweitet hat.

*Bestellungen durch eine Buchhandlung erbeten*



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AKADEMIE DER WISSENSCHAFTEN DER DDR

Zentralinstitut Physik der Erde (ZIPE)

## Seismological Bulletin 1968 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth  
and Joachim Weyrauch



AKADEMIE-VERLAG · BERLIN

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With 2 Figures



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## PREFACE

The annual Seismological Bulletin 1968 for the Station Moxa continues the series of publications about seismological records at the Central Station Moxa edited by the Central Earth Physics Institute of the Academy of Sciences of GDR.

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 1968 was prepared by JOHANNES STELZNER and DOROTHEA GÜTH with the technical assistance of URSULA DÖRING.

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

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#### Correction for Seismological Bulletin 1967 Station Moxa (MOX)

Page 9 should read: Magnitudes are determined . . .  
for maxima of body waves ( $h < 60$  km) P, PP, S  
and for maxima of surface waves ( $h < 100$  km)  
Lm with the calibrating function  $\sigma(\Delta)$  from Prague  
[4].

### Preliminary notes for the interpretation of seismograms

In the Bulletin the international code is used:

#### *1. Phase interpretation*

- Pg — direct longitudinal wave in near epicentral distances ( $D < 10^\circ$ )
- Pb, Pn — guided longitudinal head waves along the CONRAD- or MOHOROVIČIĆ-discontinuity ( $D < 10^\circ$ )
- P — direct longitudinal wave travelled through the earth mantle
- 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 on the earth surface with permanent longitudinal character
- PKKP — phase reflected once within the core at the outer core boundary
- PKPPKP — longitudinal core phase reflected at the earth surface
- Sg — direct transversal wave in near epicentral distances ( $D < 10^\circ$ )
- Sb, Sn — guided transversal head waves along the CONRAD- or MOHOROVIČIĆ-discontinuity ( $D < 10^\circ$ )
- S — direct transversal wave travelled through the earth mantle

- SKS — direct wave travelled transversal through the mantle and longitudinal through the core  
 SS, SSS — waves reflected on 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, . . . ,  
 PP1, PP2, . . . ,  
 S1, S2, . . . ,  
 PKKP1, PKKP2, . . . ,  
 PKPPKP1, PKPPKP2, . . . — multiple onsets of body waves  
 Pn, Sn — teleseismic Pn and Sn waves in the epicentral distances  $23^\circ < D < 40^\circ$  after БАТН [2]  
 Pa, Sa — waves probably guided in the asthenosphere 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

Usually the onsets are taken from seismographs of Typ A and B. If there are onsets recorded with long-period seismographs of type C, the designation of type C follows the phase symbol.

- 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. Measurement 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. In case of doubt the symbol of phase and component is followed by the symbol of the type of instruments in parenthesis e. g.: PV(A), PV(B), SH(B)

Data of amplitudes obtained from records of instruments of type A are given in units of length of nm (1 nm = 1 nanometre =  $10^{-9}$  millimetre). Data of amplitudes obtained from instruments of type B and such obtained from instruments of type C are given in units of length  $\mu\text{m}$  (1  $\mu\text{m}$  = 1 mikrometre =  $10^{-3}$  millimetre) e. g.: PV 1,25 s 38,6 nm, SH: 10 s 3,2  $\mu\text{m}$ , LmH: 22 s 15  $\mu\text{m}$ .

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

for maxima of body waves ( $h < 60$  km) 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  $\sigma$  [4] —.

The station correction S was not yet taken into consideration.

- MPV, MPV1, MPV2, MPPV — magnitude of vertical component V of the adequate body waves  
 MPH, MPPH, MSH — magnitude of horizontal component H of the adequate body waves  
 MLV, MLV1, MLV2 — magnitude of the vertical component V of the maximum surface waves  
 MLH, MLH1, MLH2 — magnitude of the horizontal component H of the maximum surface waves  
 MAG — Magnitude of the vertical component V of the first onset of P-waves given by USCGS  
 ML — magnitude of the maximum surface waves given by BCIS

If there are several evaluations of amplitudes from different types of seismographs for the same wave, the symbol of magnitudes is followed by the symbol of instruments e. g.: MPV(A), MPV(B).

## 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, dilation
- 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 distance in degree ( $^{\circ}$ ), calculated according to geocentric coordinates, the maximum error of the own calculation amounts to  $\pm 0,1^{\circ}$   
 Az — azimuth: clockwise measured angle in degree ( $^{\circ}$ ) 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 GMT (Greenwich Mean Time)  
 USCGS — United States Coast and Geodetic Survey, Washington  
 BCIS — Bureau Central International de Séismologie, Strasbourg  
 ISC — International Seismological Centre, Edinburgh  
 USAEC — U.S. Atomic Energy Commission, Washington, D.C.  
 ANUSSR — Academie Nauk USSR, Moscow  
 UPP — Seismological Institute Uppsala, Sweden

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 earths center. Bull. Seism. Soc. Am. **54** (1964) 1, 191–208.  
 [2] BÄTH, M., Propagation of Sn and Pn teleseismic distances. Pure and Applied Geophysics **64** (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 Institute of Geodynamics, Jena

Elevation above  
 mean sea level: 455 m  
 Foundation: clay slate of the lower carboniferous formation  
 Geographic  
 coordinates:  $\varphi = 50^{\circ}38'46''$  N  $\lambda = 11^{\circ}36'58''$  E  
 Address: Central Earth Physics Institute (since February 1969)  
 Seismological Service  
 GDR-69 Jena, Burgweg 11  
 German Democratic Republic  
 Telex: 058 8668 seis dd

#### Seismographs and their parameters 1968

$T_0$  — 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  
 $\sigma^2$  — 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]	$D_s$	$D_g$	$V_0$	$\sigma^2$
Krumbach (modif.) until May, 1.	Z	2.0	0.21	0.54	3.68	23500	0.22
VSJ-II	Z	1.0	1.0	0.5	0.5	43700	0.56
A SKM-III	N	1.53	0.34	0.5	2.23	19000	0.10
until Nov., 27.	E	1.45	0.35	0.5	2.08	23000	0.12
	Z	1.49	0.35	0.5	2.18	23000	0.13
A SKM-III	N	1.64	0.39	0.52	1.98	25700	
from Dec., 5.	E	1.64	0.39	0.50	1.93	25400	
	Z	1.64	0.39	0.51	1.99	24600	
B SSJ-I	N	20	1.13	0.50	8.87	{ 112 { 111*)	0.074
		20	1.14	0.50	8.79	{ 1120 { 1110*)	0.074
	E	20	1.13	0.49	8.85	{ 107 { 103*)	0.071
		20	1.16	0.49	8.61	{ 1090 { 1050*)	0.071
	Z	20	1.13	0.48	8.82	{ 107 { 104*)	0.048
		20	1.24	0.48	8.05	{ 1070 { 1070*)	0.048
C SSJ-I/L	N	30	70.7	1.24	0.5	1500	0.15
	E	30	79.1	1.3	0.5	1200	0.087
	Z	30	77.2	1.3	0.5	1300	0.066
Strain/L	NS		85.4		0.70	72**)	
	EW		86.4		0.70	67**)	
(coupled)	NS+EW		86.2		0.70	42**)	
Wiechert 1200 kp	N	7.7		0.30		190	
	E	7.6		0.37		200	
Mainka 150 kp	N	19.7		0.33		50	
200 kp	E	21.3		0.46		48	

\*) from Feb., 1.

\*\*\*) for wave velocity  $5 \text{ km s}^{-1}$

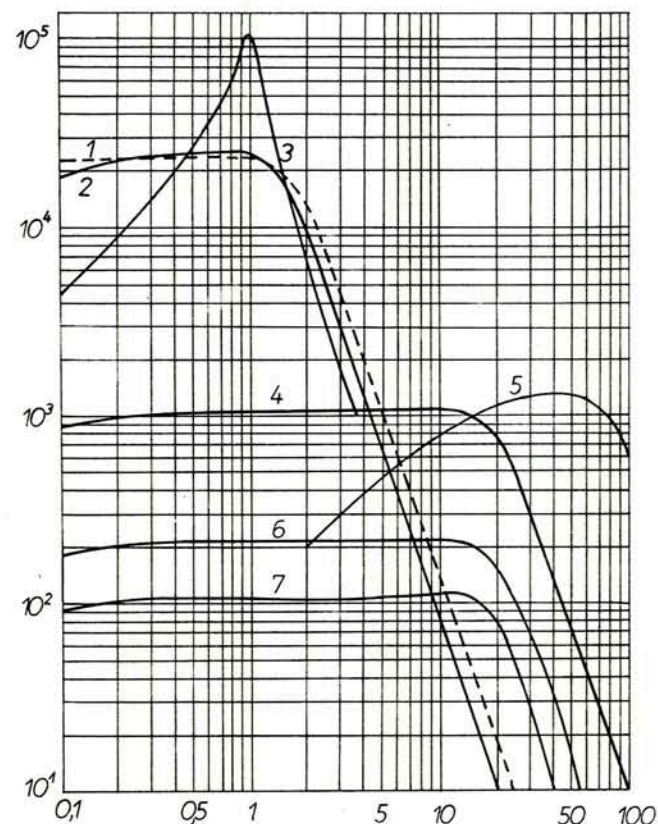
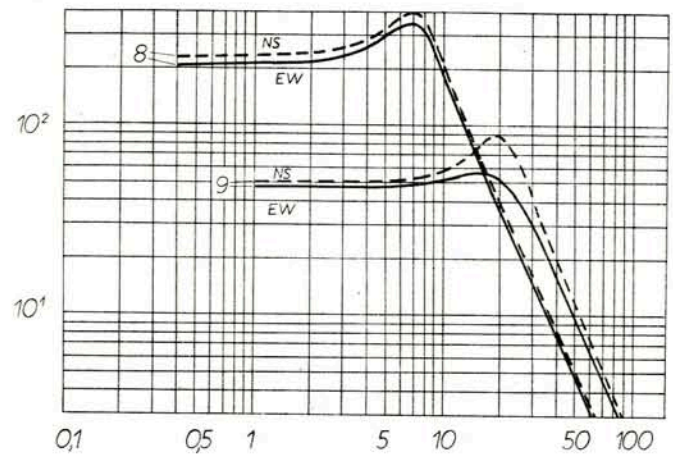


Fig. 1. Mean amplitude characteristics of the electromagnetic seismographs of the station Moxa 1968

- 1 - Modified Krumbach Seismograph (Z-component)
- 2 - Seismograph Kirnos Modernised-III (SKM-III) (NS-, EW- and Z-component)
- 3 - Seismograph Type Jena II (Z-component)
- 4 - Seismic Station Apparatus Type Jena I/1000 (SSJ-I/1000) (NS-, EW- and Z-component)
- 5 - Seismic Station Apparatus Type Jena I/L (SSJ-I/L) (NS-, EW- and Z-component)
- 6 - Seismic Station Apparatus Type Jena I/200 (SSJ-I/200) (NS-, EW- and Z-component)
- 7 - Seismic Station Apparatus Type Jena I/100 (SSJ-I/100) (NS-, EW- and Z-component)





### Seismological Recordings at Station Moxa 1968

Fig. 2. Mean amplitude characteristics, of the mechanical seismographs of the station Moxa 1968  
8 - Wiechert Seismograph (NS- and EW-component)  
9 - Mainka Seismograph (NS- and EW-component)

January 1968

Moxa

Day	Phase	h m s	Remarks
2.	-eiPKIKP	00 40 06	<u>New Ireland Region</u> 5.13 S 153.35 E
	epPKIKP	40 29	H = 00 21 10.8 h = 55 km MAG=5.5
	ePP	41 39	D = 124.5 Az = 331.4 (USCGS) h = 61 km
	ePS	52 08	PV:1.2s 51.0nm
	ePPS	53 35	LmH:20s 1.6 $\mu$ m LmV:18s 2.2 $\mu$ m
	eSS	58.9	MLH=5.7 MLV=5.9
	e	59 40	
	LmH	01 38.4	
	LmV	39.8	
2.	ePKP	02 27 25	<u>Fiji Islands</u> 19.33 S 177.57 W
			H = 02 08 43.2 h = 570 km MAG=4.2 D = 147.9 Az = 349.0 (USCGS)
2.	eP	07 42 01	<u>Kurile Islands</u> 45.67 N 150.92 E
			H = 07 30 11.7 h = 87 km MAG=4.7 D = 77.8 Az = 334.9 (USCGS)
3.	eP	02 36 48	<u>Andreanof Islands/Aleutian</u>
	eipP	37 01.5	51.83 N 173.31 W H = 02 24 54.1 h = 39 km MAG=4.6 D = 77.8 Az = 356.8 (USCGS) h = 50 km
3.	eP	04 14 18.5	<u>Norwegian Sea</u> 72.26 N 6.50 E
	e	14 24.5	H = 04 09 34.9 h = normal MAG=5.4
	e	14 39	D = 21.8 Az = 171.2 (USCGS)
	LmH	24.4	<u>North east of Jan Mayen</u> 73.1 N 5.4 E
	LmV	24.4	H = 04 09 19 h = 33 km (BCIS)
			D = 22.7 PV1:1.5s 23.5nm PV3:1.6s 83.2nm LmH:15s 1.8 $\mu$ m LmV:13s 2.3 $\mu$ m MPV1=4.4 MPV3=4.9 MLH=4.6 MLV=4.9
3.	eip	07 42 49	<u>Norwegian Sea</u> 72.19 N 1.21 E
	LmH	50.0	H = 07 37 55.2 h = normal MAG=5.3

January 1968

Moxa

Day	Phase	h m s	Remarks
cont.			
3.	LmV	07 50.4	D = 22.1 Az = 162.2 (USCGS) PV:1.6s 182.0nm LmH(C):18s 0.8 $\mu$ m LmV(C):18s 1.0 $\mu$ m MPV=5.3 MLH(C)=4.2 MLV(C)=4.3
3.	eP	08 00 24	<u>Near East Coast of Kamchatka</u> 54.87 N 161.49 E H = 07 49 04.0 h = 39 km MAG=4.8 D = 71.9 Az = 340.4 (USCGS)
3.	eP	10 29 04	<u>Gulf of Alaska</u> 59.70 N 146.81 W H = 10 18 00.7 h = 19 km MAG=4.7 D = 68.6 Az = 14.6 (USCGS) PV: 1.1s 21.6nm MPV=5.3
4.	eP e eS eSS eLQ LmH LmV	01 09 37 09 39.5 19 26 24 48 30 13 49.6 47.0	<u>Fox Islands/Aleutian</u> 52.23 N 171.32 W H = 00 57 44.4 h = 36 km MAG=5.7 D = 77.5 Az = 358.1 (USCGS) PV:2.0s 92.7nm LmH:18s 4.9 $\mu$ m LmV:18s 3.8 $\mu$ m MPV=5.6 MLH=5.9 MLV=5.8
4.	ePKIKP	10 46 41	<u>East New Guinea Region</u> 9.91 S 148.87 E H = 10 27 37.7 h = 19 km MAG=5.4 D = 126.3 Az = 327.6 (USCGS)
4.	ePKHKP	22 28 57.5	<u>Fiji Islands</u> 21.17 S 179.12 W H = 22 10 17.1 h = 624 km MAG=4.8 D = 149.4 Az = 346.5 (USCGS) PKHKPV:1.0s 14.2nm
5.	eP	06 09 38	<u>Central Italy</u> 42.37 N 12.79 E H = 06 07 38.7 h = normal MAG=4.0 D = 8.3 Az = 354.8 (USCGS) PV:1.2s 18.2nm (mod.Krumbach)

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Day	Phase	h m s	Remarks
5.	+eP	06 52 06	<u>Tibet-India Border Region</u> 30.38 N 79.13 E H = 06 42 44.7 h = 7 km MAG=5.4 D = 53.2 Az = 312.8 (USCGS) PV:1.3s 25.0nm MPV=5.0
5.	ePKP	08 19 52	<u>Tonga Islands</u> 16.58 S 173.71 W H = 08 00 19.2 h = 70 km MAG=4.5 D = 145.7 Az = 354.0 (USCGS) PV:1.1s 14.4nm
5.	eP e	09 29 39 29 50	<u>South of Alaska</u> 55.90 N 154.61 W H = 09 18 09.9 h = normal MAG=4.8 D = 73.2 Az = 9.1 (USCGS)
6.	iP	10 26 19.5	<u>Rumania</u> 45.76 N 26.61 E H = 10 23 49.1 h = 163 km MAG=4.6 (USCGS) D = 11.1
6.	eP	15 24 48	<u>Bay of Bengal</u> 16.38 N 92.08 E H = 15 13 28.7 h = normal MAG=5.1 D = 71.5 Az = 318.5 (USCGS)
6.	ePKP ePP eSKS ePS ePPS eSS LmH LmV	23 41 35 45 57 52 10 55 10 56 18 00 01 10 30.5 33.5	<u>Near Coast of Northern Chile</u> 27.78 S 71.07 W H = 23 27 21.2 h = normal MAG=5.8 D = 106.6 Az = 41.2 (USCGS) LmH:19s 8.9 $\mu$ m LmV:18s 10.3 $\mu$ m MLH=6.3 MLV=6.4 e 46 08 e 46 23 e 47 25 e 55 20
7.	+eP	03 54 46	<u>Eastern Kazakh SSR</u> 49.81 N 78.02 E H = 03 46 57.7 h = 0 km MAG=5.3 PV:0.7s 19.0nm PH:0.8s 10.0 $\mu$ m MPV=4.9 MPH=4.8 Probably underground explosion

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Day	Phase	h m s	Remarks
7.	ePKIKP epPKIKP ePS LmH LmV	10 15(26) 16 17 27 14 58.8 59	<u>New Ireland Region</u> 5.07 S 153.93 E H = 09 56 40.3 h = 118 km MAG=5.6 (USCGS) D = 124.8 h = 205 km pPKIKPV:1.8s 35.7nm LmH:36s 3.5/um LmV:40s 1.6/um MLH(C)=5.8 MLV(C)=5.4
7.	eP e ePP eS LmH LmV	11 25 07.5 25 32 28 16 35 36 12 05.2 09.2	<u>Off East Coast of Honshu, Japan</u> 33.49 N 141.57 E H = 11 12 33.9 h = 48 km MAG=5.5 (USCGS) D = 85.3 PV:2.2s 87.7nm LmH:15.5s 6.7/um LmV:16.5s 9.0/um MPV=5.6 MLH=6.2 MLV=6.3
7.	ePKHKP eiPKP2	19 37 02 37 05.5	<u>Tonga Islands</u> 16.73 S 174.74 W H = 19 17 34.3 h = 119 km MAG=4.8 D = 145.8 Az = 352.8 (USCGS) PKP2V:1.4s 46.0nm
7.	eP	21 50 38.5	<u>Kurile Islands</u> 46.08 N 150.75 E H = 21 38 45.2 h = normal MAG=4.6 D = 77.4 Az = 334.7 (USCGS) PV:1.1s 16.8nm MPV=5.1
8.	ePKP ei	03 35 30.5 35 32.5	<u>New Hebrides Islands</u> 13.75 S 171.46 E H = 03 17 12.6 h = 630 km MAG=5.2 D = 139.7 Az = 340.2 (USCGS)
8.	eP	14 01 53	<u>North-east of Kurile Islands</u> 49.06 N 151.32 E H = 13 50 42.0 h = 284 km MAG=5.0 D = 74.8 Az = 334.7 (USCGS) PV:1.4s 18.4nm MPV=4.9

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Day	Phase	h m s	Remarks
8.	eSKS eS ePPS LmH LmV	19 08 24 09 15 11 40 39.3 39.5	<u>Northern Chile</u> 18.56 S 69.92 W H = 18 44 24.5 h = 116 km MAG=5.4 (USCGS) D = 98.9 LmH:20s 0.9/um LmV:20s 1.1/um MLH=5.3 MLV=5.4
8.	eP ei e e eS e LmH LmV	20 32 13 32 15 32 20.5 32 28.5 40 24 40 27 57.2 57.3	<u>Central Mid-Atlantic Ridge</u> 8.18 N 38.23 W H = 20 22 15.6 h = normal MAG=5.4 D = 59.0 Az = 34.6 (USCGS) PV2:1.5s 84.0nm PV4:2.0s 232.0nm LmH:16.5s 2.2/um LmV:16s 2.0/um MLH=5.4 MLV=5.4
8.	ePKP e e LmV LmH	22 13 55 13 57.5 14 13.5 31.2 34.7	<u>Samoa Islands</u> 14.80 S 174.83 W H = 21 54 20.8 h = 16 km MAG=5.5 D = 143.9 Az = 353.0 (USCGS) PV2:1.5s 47.0nm LmV:18s 3.8/um LmH:15.5s 3.4/um MLV=6.2 MLH=6.2
9.	eP eipP esP LmH LmV	23 19 40 19 49.5 19 53 25.4 27.3	<u>Mediterranean Sea</u> 35.51 N 22.49 E H = 23 15 42.2 h = 44 km MAG=4.7 D = 17.1 Az = 335.8 (USCGS)
11.	eP e LmH	16 25 15 25 31.5 17 05	<u>Off East Coast of Honshu, Japan</u> 34.29 N 141.16 E H = 16 12 46.9 h = 53 km MAG=4.9 D = 84.4 Az = 330.4 (USCGS) PV:1.5s 26.8nm MPV=5.3
11.	ePn i ePg	17 09 39 09 50 10 10	<u>Italy</u> 44.4 N 12.0 E H = 17 08 09 (BCIS) D = 6.3

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January 1968			Moxa
Day	Phase	h m s	Remarks
cont.			
11.	iSn eSg	17 10 46.5 11 31	
11.	eP epP	18 20 32 20 42.5	<u>Kurile Islands</u> 46.43 N 153.29 E H = 18 08 38.1 h = 50 km MAG=4.7 D = 77.8 Az = 336.2 (USCGS) h = 39 km PV:1.0s 11.9nm MPV=5.0
12.	ePKP2	03 25 35	<u>Kermadec Islands</u> 27.21 S 177.16 W H = 03 05 18.5 h = 90 km MAG=5.3 (USCGS) D = 155.8
12.	+eP	04 29 19	<u>Andaman Islands</u> 13.40 N 93.13 E H = 04 17 43.1 h = normal MAG=5.5 D = 74.4 Az = 319.2 (USCGS) PV:1.1s 24.1nm MPV=5.2
13.	eP e ePP eS ePS LmH LmV	07 16 09.5 16 23 19 23.5 26 40 27 32 57.9 57.9	<u>Taiwan Region</u> 24.10 N 122.23 E H = 07 03 39.2 h = 8 km MAG=5.7 D = 83.8 Az = 323.2 (USCGS) PV:1.6s 106.0nm SH:16s 2.1 $\mu$ m LmH:16s 30.9 $\mu$ m LmV:16.8s 41.3 $\mu$ m MPV=5.8 MSH=6.0 MLH=6.8 MLV=6.9
13.	e(P) iSKS eSKKS eS e eiSP ePS ePKKP eSS LmH LmV	16 20 43 31 03 31 44 32 02 32 28 33 32 33 36 36 45 39 08 17 06.8 06.7	<u>Salta Province, Argentina</u> 24.20 S 66.94 W H = 16 07 04.2 h = 192 km MAG=5.7 D = 101.5 Az = 39.5 (USCGS) SKSH(C):25s 4.0 $\mu$ m LmH:17s 1.8 $\mu$ m LmV:18s 2.1 $\mu$ m MLH=5.6 MLV=5.7

January 1968			Moxa
Day	Phase	h m s	Remarks
14.	ePKIKP ePKHKP ePKP2 epPKP	08 20 07 20 12.5 20 21.5 22 32	<u>South of Fiji Islands</u> 22.51 S 179.64 N H = 08 01 27.8 h = 610 km MAG=5.2 D = 150.6 Az = 345.3 (USCGS) PV2:1.0s 33.2nm PV3:1.1s 19.2nm
14.	e(P)	10 48 33	<u>Mozambique</u> 23.61 S 33.00 E H = 10 36 36.9 h = normal MAG=5.3 D = 76.3 Az = 346.2 (USCGS) PV:1.0s 14.2nm
14.	eP e e e	12 31 25 31 28 31 39.5 31 44.5 31 53.5	<u>Sicily</u> 37.84 N 13.08 E H = 12 28 24.3 h = normal MAG=5.1 D = 12.8 Az = 355.8 (USCGS) PV:1.1s 12.0nm
14.	eP ePKP ePP ePPP ePS ePPS eSS LmH LmV	12 39 38 43 37 44 16 46 45 50 40 55 52 13 00.0 27.4 29.2	<u>Banda Sea</u> 7.45 S 127.88 E H = 12 25 09.7 h = 115 km MAG=5.9 (USCGS) D = 112.3 LmH:20s 9.5 $\mu$ m LmV:24s 7.2 $\mu$ m MLH=6.4 MLV=6.2 e 42 51 e 43 40 e 44 15.5 e 44 24 e 46 48
14.	eP +ei e	12 52 36 52 42 52 52	<u>Fox Islands/Aleutian</u> 52.83 N 171.35 W H = 12 40 48.5 h = 44 km MAG=5.6 D = 76.9 Az = 358.1 (USCGS) PV2:1.8s 86.7nm MPV2=5.6
14.	+eP e e e	13 18 50 19 02.5 19 08 19 12	<u>Sicily</u> 37.69 N 13.06 E H = 13 15 41.4 h = 2 km MAG=5.0 D = 13.0 Az = 355.9 (USCGS) PV:(1.7)s 35.2nm

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Moxa

Day	Phase	h m s	Remarks
14.	iPn iPg iSg	14 09 27.7 09 28.7 09 44.7	Explosion D ca. 1.2
14.	ePKHKP	14 53 47.5	<u>Tonga Islands</u> 20.98 S 173.69 W H = 14 33 59.7 h = normal MAG=4.5 D = 150.1 Az = 353.2 (USCGS) PV:1.2s 15.3nm
14.	eP +ei e e LmH LmV	15 51 33.5 51 35.5 51 46 51 53 57.4 57.5	<u>Sicily</u> 37.93 N 13.09 E H = 15 48 31.8 h = 29 km MAG=4.7 D = 12.8 Az = 355.8 (USCGS) PV2:1.2s 40.8nm LmH:11s 5.2 $\mu$ m LmV:13s 2.7 $\mu$ m MLH=4.8
14.	eP i eS ePS iSS LmH LmV	17 55 01 55 05.5 18 04 52 05 28 09 46 39.1 45.3	<u>Fox Islands/Aleutian</u> 52.74 N 171.23 W H = 17 43 10.0 h = 34 km MAG=5.5 D = 77.0 Az = 358.1 (USCGS) LmH:15.5s 7.5 $\mu$ m LmV:16.5s 5.5 $\mu$ m MLH=6.1 MLV=6.0
15.	eP i ei LmH LmV	01 36 04.5 36 07 36 09.5 41.9 42.0	<u>Sicily</u> 37.93 N 13.14 E H = 01 33 02.7 h = normal MAG=5.1 D = 12.8 Az = 355.6 (USCGS) PV2:1.1s 125.0nm LmH:11s 22.4 $\mu$ m LmV:13s 11.1 $\mu$ m MLH=5.5
15.	eP +iP iPL B ei eS C eS B LmH LmV	02 04 09 04 10 04 11.5 04 23 06 33 06 46 09.6 10.3	<u>Sicily</u> 37.95 N 13.12 E H = 02 01 08.5 h = normal MAG=5.4 D = 12.7 Az = 355.7 (USCGS) PV2:1.2s 61.2nm PV3:1.2s 143.0nm PV4:1.2s 354.0nm LmH:13s 75.0 $\mu$ m LmV:13s 37.1 $\mu$ m MLH=5.9

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Moxa

Day	Phase	h m s	Remarks
15.	eP e e	03 21 42.5 21 50.5 21 56	<u>Sicily</u> 37.89 N 13.14 E H = 03 18 40.8 h = normal MAG=4.6 D = 12.8 Az = 355.6 (USCGS)
15.	ePKP epPKP	03 48 37 48 47.5	<u>Loyalty Islands</u> 20.42 S 168.72 E H = 03 29 03.0 h = 39 km MAG=4.4 D = 144.8 Az = 334.5 (USCGS) PV:1.4s 18.4nm
15.	eP e	13 45 09 45 14	<u>Sicily</u> 37.78 N 12.79 E H = 13 42 05.1 h = normal MAG=5.3 D = 12.9 Az = 356.6 (USCGS)
15.	eP	15 02 57	<u>Sicily</u> 37.8 N 13.2 E H = 14 59 50 (BCIS)
15.	e(P)	16 52 32	<u>Sicily</u> 37.8 N 13.2 E H = 16 49.1 (BCIS)
15.	eP e e LmH	18 25 57.5 25 58 26 14.5 31.9	<u>Sicily</u> 37.73 N 13.06 E H = 18 22 50.1 h = 6 km MAG=4.1 D = 13.0 Az = 355.9 (USCGS) LmH:12s 2.1 $\mu$ m MLH=4.4
15.	eSg	19 49 03.5	Epizentral coordinates indefinite H = 19 46.9 (BCIS)
15.	LmH	20 13.5	<u>Probably Northeastern China</u> 37.77 N 115.28 E H = 19 33 58.9 h = normal MAG=4.9 LmH:16s 2.8 $\mu$ m
15.	eP	21 07 22 07 22.5	PV:1.5s 20.2nm
15.	eP e LmH	22 23 00.5 23 04.5 30	<u>Sicily</u> 37.77 N 12.86 E H = 22 19 57.2 h = normal MAG=4.7 D = 12.9 Az = 356.5 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
16.	eP	00 57 16	<u>Sicily</u> 37.56 N 12.81 E H = 00 54 08.8 h = normal MAG=4.8 D = 13.1 Az = 356.7 (USCGS)
16.	eP e LmH LmV	13 13 35 13 44 18.8 19.7	<u>Sicily</u> 37.83 N 12.87 E H = 13 10 32.3 h = normal MAG=4.6 D = 12.8 Az = 356.4 (USCGS) LmH:13s 1.3 $\mu$ m MLH=4.2
16.	e	14 32 45.5	Traces
16.	eP e i i i eS eiS LmH LmV	16 45 47.5 45 49.5 45 51.5 45 58 46 01.5 48 10 48 18 51.7 51.8	<u>Sicily</u> 37.87 N 13.09 E H = 16 42 44.3 h = 14 km MAG=5.1 D = 12.8 Az = 355.8 (USCGS) PV3:1.4s 13.2nm PV4:1.2s 97.0nm PV5:1.5s 208.0nm LmH:11s 31.1 $\mu$ m LmV:12.8s 14.4 $\mu$ m MLH=5.6
17.	ePKP2	10 10 04	<u>West of Macquarie Island</u> 56.44 S 147.01 E H = 09 49 50.7 h = normal MAG=- D = 153.3 Az = 276.5 (USCGS)
18.	ePKIKP e	02 16 31.5 16 40	<u>South of Fiji Islands</u> 22.33 S 179.14 W H = 01 57 32.0 h = 472 km MAG=4.6 D = 150.5 Az = 346.0 (USCGS) PV:0.9s 14.1nm
18.	ePKP LmH LmV	12 23 10 13 24.5 24.5	<u>Fiji Islands</u> 14.63 S 178.40 N H = 12 03 37.4 h = normal MAG=5.1 D = 143.2 Az = 349.4 (USCGS) LmH:22s 1.6 $\mu$ m LmV:22s 1.2 $\mu$ m MLH=5.5 MLV=5.4

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Moxa

Day	Phase	h m s	Remarks
18.	iPg eiSg i	13 04 39.5 04 53 04 54	Explosion D ca. 1.1 <sup>0</sup>
19.	ePKIKP e ePP e(SKP) eSS LmH LmV	06 23 45 23 58 26 00 27 10 43 28 07 14.2 22.2	<u>Solomon Islands</u> 9.36 S 158.41 E H = 06 04 38.2 h = normal MAG=6.0 D = 130.6 Az = 332.7 (USCGS) LmH:19s 15.8 $\mu$ m LmV:20s 16.2 $\mu$ m MLH=6.7 MLV=6.7
19.	eP	07 07 43	<u>North of Severnaja Zemlya</u> 82.24 N 118.85 E H = 06 59 49.7 h = normal MAG=4.5 D = 42.4 Az = 295.6 (USCGS)
19.	ePg i e eiSg i	10 00 54.5 00 55 00 55.5 01 13 01 14	Explosion 50 <sup>0</sup> 07' N 13 <sup>0</sup> 32.5' E D = 1.4 yield: 12.6 t (PRU)
19.	ePKIKP LmH LmV	14 58 26.5 15 38.3 48.3	<u>Off Coast of Southern Chile</u> 42.59 S 75.24 W H = 14 39 37.8 h = 22 km MAG=5.5 D = 119.6 Az = 47.0 (USCGS) LmH(C):24s 1.4 $\mu$ m LmV:20s 2.5 $\mu$ m MLH(C)=5.5 MLV=5.9
19.	e(P)	16 05 19	PV:1.2s 10.2nm
19.	-eP	16 17 14	PV:1.2s 15.3nm
19.	+iP e LmH LmV	18 27 11.5 29 04 19 05.2 05.2	Probably underground explosion <u>Nevada</u> 38.8 N 116.3 W H = 18 14 59.4 D = 79.9 (BCIS) PV:1.6s 750.0nm PH:1.8s 479.0nm LmH:15s 2.3 $\mu$ m LmV:15.5s 3.0 $\mu$ m MPV=6.4 MPH=6.5 MLH=5.6 MLV=5.7

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Moxa

Day	Phase	h m s	Remarks
20.	LmV LmH	06 44.5 44.6	<u>Azores Islands Region</u> 41.30 N 29.17 W H = 06 27 39.4 h = normal MAG=4.7 (USCGS) D = 29.5
20.	LmH LmV	08 38.8 38.9	<u>Azores Islands Region</u> 41.32 N 29.28 W H = 08 22 28.7 h = normal MAG=4.7 (USCGS) D = 29.5
20.	ePKP e e e LmH LmV	17 01 02 01 08 01 14.5 23 12 18 07.8 15.7	<u>Fiji Islands</u> 16.23 S 178.11 E H = 16 41 27.1 h = 21 km MAG=5.6 D = 144.0 Az = 345.3 (USCGS) PV2:1.3s 25.0nm LmH:17.5s 3.7 $\mu$ m LmV:16s 3.4 $\mu$ m MLH=6.2 MLV=6.2
20.	1PKHKP	17 52 41.5	<u>Fiji Islands</u> 18.93 S 178.03 W H = 17 34 05.4 h = 626 km MAG=4.5 D = 147.4 Az = 348.6 (USCGS) PV:(1.2)s 20.4nm
20.	-e1PKIKP e e -e1PKP2	21 40 45 40 46.5 40 47.5 41 21	<u>Kermadec Islands</u> 29.94 S 179.52 W H = 21 21 31.6 h = 349 km MAG=5.8 D = 157.7 Az = 341.1 (USCGS) PV1:2.0s 292.0nm PV4:1.4s 680.0nm
21.	eP	02 42 06.5	<u>Sicily</u> 37.97 N 13.19 E H = 02 39 04.7 h = normal MAG=4.3 D = 12.7 Az = 355.4 (USCGS)
21.	eP e	04 38 43.5 38 59.5	<u>Off East Coast of Honshu/Japan</u> 33.81 N 141.69 E H = 04 26 11.7 h = 57 km MAG=5.0 D = 85.1 Az = 330.7 (USCGS)
21.	e(P)	13 31 33	PV:1.8s 20.4nm

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Moxa

Day	Phase	h m s	Remarks
21.	e1PKP	14 06 46.5	<u>Tonga Islands</u> 16.11 S 173.89 N H = 13 47 09.6 h = normal MAG=4.2 D = 145.3 Az = 353.8 (USCGS) PV:0.8s 14.2nm
21.	eP e i e ePP eS LmV LmH	16 51 57.5 52 07.5 52 11.5 52 21 16 54 10 59 58 17 15.2 15.3	<u>North of Ascension Island</u> 1.17 S 13.98 W H = 16 42 29.2 h = normal MAG=5.4 (USCGS) D = 56.0 PV2:0.8s 18.9nm PV3:1.1s 81.7nm PV4:1.8s 378.0nm SH:20s 17.3 $\mu$ m LmH:17.5s 33.8 $\mu$ m LmV:19.0s 17.6 $\mu$ m MPV2=5.2 MPV3=5.7 MPV4=6.1 MLH=6.5 MLV=6.2
21.	ePKIKP	23 14 10	<u>New Britain Region</u> 5.02 S 150.81 E H = 22 55 35.8 h = 185 km MAG=5.0 D = 123.2 Az = 330.2 (USCGS)
21.	eP	23 57 08	<u>Mexico-Guatemala Border Region</u> 15.65 N 92.33 W H = 23 44 46.1 h = 166 km MAG=5.0 (USCGS) D = 86.7 traces
21.	eP ei eS e LmH	23 57 49.5 00 07 40 08 25 13 30 21.5	<u>Chiapas, Mexico</u> 16.79 N 92.32 W H = 23 45 17.1 h = 77 km MAG=5.4 D = 85.7 Az = 38.3 (USCGS) PV:1.8s 51.0nm LmH(C):40s 0.8 $\mu$ m MPV=5.4 MLH(C)=4.8
22.	eP	07 23 38	<u>Morocco</u> 34.87 N 5.17 W H = 07 19 03.9 h = 22 km MAG=4.1 D = 19.9 Az = 32.6 (USCGS) PV:0.9s 9.4nm
22.	eP eSS	10 43 51 53 50	<u>Southern Sinkiang Prov., China</u> 38.24 N 75.64 E H = 10 35 36.6 h = 108 km MAG=5.3 D = 46.0 Az = 307.3 (USCGS) PV:1.1s 21.6nm MPV=5.1

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Day	Phase	h m s	Remarks
22.	LmH LmV	13 37.9 37.8	<u>Leeward Islands</u> 17.60 N 60.67 W H = 12 58 10.2 h = 33 km MAG=4.7 (USCGS) D = 65.6 LmH(C):18s 0.5 $\mu$ m LmV(C):22s 1.0 $\mu$ m MLH(C)=4.8 MLV(C)=5.1
22.	iPg e iSg	14 36 26 36 41 36 42	Explosion D = ca. 1.2
22.	ePKIKP e LmH	18 35 51 35 54 19 22	<u>East New Guinea Region</u> 9.85 S 148.96 E H = 18 16 49.8 h = 27 km MAG=5.3 D = 126.3 Az = 327.6 (USCGS)
22.	eP	20 40 23	<u>Iran - Iraq Border Region</u> 33.79 N 46.88 E H = 20 34 10.0 h = normal MAG=5.0 D = 30.7 Az = 314.0 (USCGS)
22.	eP LmH LmV	23 54 24 24 27.2 30	<u>Alaska</u> 70.32 N 144.38 W H = 23 44 29.7 h = 9 km MAG=4.7 D = 58.1 Az = 17.8 (USCGS) LmH:16s 0.3 $\mu$ m LmV:18s 0.4 $\mu$ m MLH=4.5 MLV=4.7
23.	epP	03 33 52.5	<u>Burma-India Border Region</u> 25.95 N 95.51 E H = 03 22 46.2 h = 103 km MAG=5.0 D = 66.6 Az = 316.4 (USCGS) PV:1.0s 9.5nm
23.	eP eS ePS eSS LmH LmV	16 18 42 28 30 29 15 33 38 58.5 58.5	<u>Fox Islands/Aleutian</u> 52.13 N 171.29 W H = 16 06 50.1 h = 53 km MAG=5.2 D = 77.6 Az = 358.1 (USCGS) PV:1.0s 33.2nm LmH:20s 1.3 $\mu$ m LmV:20s 1.1 $\mu$ m MPV=5.4 MLH=5.3 MLV=5.2 e 28 30 e 37 59 e 39 25
23.	eP	19 26 43	<u>Ethiopia</u> 8.71 N 37.66 E

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January 1968			Moxa
Day	Phase	h m s	Remarks
cont. 23.	eS LmH	19 33 38 47.1	H = 19 18 13.0 h = normal MAG=5.1 D = 47.0 Az = 337.5 (USCGS) PV:1.4s 18.4nm SH:18s 0.3 $\mu$ m LmH(C):16s 0.6 $\mu$ m MPV=5.0 MSH=4.8 MLH(C)=4.6
24.	eP e e	01 09 10.5 09 21 09 27.5	<u>Central Mid-Atlantic Ridge</u> 8.15 N 38.10 W H = 00 59 21.9 h = normal MAG=5.1 D = 58.9 Az = 34.5 (USCGS)
25.	e e	08 42 54.5 43 00	PV:1.2s 10.2nm
25.	-eP ePL C ei ei eS LmH C	09 59 49.0 59 52 59 50.5 59 53.0 10 02 10 05.1	<u>Sicily</u> 37.81 N 13.25 E H = 09 56 48.7 h = normal MAG=5.1 D = 12.9 Az = 355.3 (USCGS) PV1:1.2s 7.7nm PV3:1.7s 79.0nm PV4:1.2s 81.5nm LmH(C):13s 36.0 $\mu$ m MLH(C)=5.6
25.	eiP e	11 34 23.5 34 38	<u>Fox Islands/Aleutian</u> 51.50 N 169.55 W D = 78.2 Az = 359.2 (USCGS) PV:0.9s 14.1nm MPV=5.1
25.	eP e e LmH C LmV C	14 38 34 38 37 39 41.5 42.7 44.6	<u>Sicily</u> 37.79 N 12.94 E H = 14 35 32.6 h = normal MAG=4.4 D = 12.9 Az = 356.2 (USCGS) LmH(C):21s 2.2 $\mu$ m LmV(C):12s 1.6 $\mu$ m MLH(C)=4.2
26.	eP diff. ePP ePPS LmH C	05 00 21.5 04 35 15 54 20.5	<u>Flores Island</u> 8.77 S 120.39 E H = 04 45 41.4 h = 29 km MAG=5.9 D = 108.6 Az = 320.5 (USCGS) LmH(C):50s 4.4 $\mu$ m MLH(C)=5.6 e 04 44 e 05 00 e 14 10

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Moxa

Day	Phase	h m s	Remarks
26.	eP ei e LmH C	08 05 24.5 05 32 05 37 11.1	<u>Sicily</u> 37.65 N 12.82 E H = 08 02 18.3 h = 31 km MAG=4.6 D = 13.0 Az = 356.6 (USCGS) LmH(C)=13s 1.1 $\mu$ m MLH(C)=4.1
26.	eP LmV LmH	12 43 45 13 24.9 25.3	<u>Baja California</u> 24.30 N 111.54 W H = 12 30 46.3 h = normal MAG=5.3 (USCGS) D = 90 PV:1.4s 18.4nm LmH:15.5s 40 $\mu$ m LmV:16s 4.9 $\mu$ m MPV=5.1 MLH=5.9 MLV=6.1
27.	eP eS LmH LmV	00 56 51 01 03 40 13.0 13.0	<u>North Atlantic Ridge</u> 29.93 N 42.81 W H = 00 48 35.6 h = 34 km MAG=5.0 D = 45.2 Az = 46.8 (USCGS) PV:1.6s 26.5nm LmH:18s 1.2 $\mu$ m LmV:18s 1.6 $\mu$ m MPV=4.9 MLH=4.9 MLV=5.1
27.	eP LmH C	01 49 51 02 07.5	<u>North Atlantic Ridge</u> 29.95 N 42.79 W H = 01 41 35.4 h = normal MAG=4.6 D = 45.2 Az = 46.9 (USCGS) PV:1.2s 12.8nm MPV=4.7
27.	-iP e e e eS e LmH LmV	14 08 50.5 08 53 08 59 09 02 19 25 25 45 51.6 51.6	<u>Taiwan</u> 23.24 N 121.56 E H = 13 56 23.8 h = 53 km MAG=5.2 D = 84.1 Az = 323.0 (USCGS) PV:1.5s 40.2nm SH(C):16s 0.7 $\mu$ m LmH:14.5s 4.0 $\mu$ m LmV:15s 6.3 $\mu$ m MPV=5.4 MSH=5.6 MLH=5.9 MLV=6.1
27.	e(P) e LmH C	18 32 36 32 45 37.9	<u>Algeria</u> 35.94 N 5.15 E H = 18 28 52.4 h = normal MAG=4.2 D = 15.4 Az = 15.6 (USCGS) LmH:18s 0.8 $\mu$ m MLH=3.9

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Moxa

Day	Phase	h m s	Remarks
28.	ePg e(Sg) e	02 12 30 13.30 13 36	<u>Switzerland</u> 46.3 N 7.5 E H = 02 10 49 (BCIS) D = 5.3
29.	+iP e e epP i ei C e C e C	05 07 55.0 08 16 08 36 08 40 08 42.5 15 30 17 45 18 24	<u>Hindukush</u> 36.32 N 70.41 E H = 05 00 10.0 h = 225 km MAG=5.5 D = 43.8 Az = 308.2 (USCGS) h = 208 km PV1:1.4s 90.4nm PV5:1.7s 166.5nm MPV1=5.0 MPV5=5.2
29.	+eP eiP B i eipP eS ePKPPKP e e LmV LmH	10 31 02 31 02.7 31 03.4 31 12.5 40 52 58 14 58 19 58 26 11 12.0 15.3	<u>Kurile Islands</u> 43.62 N 146.66 E H = 10 19 05.6 h = 40 km MAG=6.3 D = 78.3 Az = 332.7 (USCGS) h = 37 km PV3:2.1s 2100.0nm LmH:16.5s 159.0 $\mu$ m LmV:15s 135.0 $\mu$ m MPV3=6.9 MLH=7.4 MLV=7.4
29.	eP epP	10 54 08 54 20	<u>Kurile Islands</u> 43.21 N 147.20 E H = 10 42 08.6 h = 41 km MAG=5.2 D = 78.8 Az = 333.0 (USCGS) h = 44 km PV:1.3s 38.9nm MPV=5.3
29.	eP	11 37 23.5	<u>Kurile Islands</u> 43.63 N 147.16 E H = 11 25 24.1 h = normal MAG=4.4 D = 78.4 Az = 332.9 (USCGS) PV:1.3s 13.9nm MPV=4.9
29.	eP e	11 55 59 56 28	<u>Kurile Islands</u> 43.39 N 147.34 E H = 11 43 59.1 h = normal MAG=5.1 D = 78.7 Az = 333.0 (USCGS) PV:2.0s 96.3nm (mod.Krumbach) MPV=5.5

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Moxa

Day	Phase	h m s	Remarks
29.	eP epP	12 19 08.5 20 20	<u>Kurile Islands</u> 43.19 N 147.26 E H = 12 07 08.0 h = normal MAG=5.0 D = 78.9 Az = 333.0 (USCGS) h = 33 km PV:1.2 s 23.0nm MPV=5.1
29.	eP epP e	14 55 51.5 56 03.5 56 10	<u>Kurile Islands</u> 43.10 N 146.91 E H = 14 43 50.5 h = normal MAG=4.7 D = 78.8 Az = 332.8 (USCGS) h = 45 km PV:0.9s 0.7nm MPV=4.7
29.	+iP +ipP i eS eSS eSSS LmH LmV	16 54 49.7 54 59.5 55 06 17 04 44 10 00 13 30 30.0 34.4	<u>Kurile Islands</u> 43.49 N 147.20 E H = 16 42 50.4 h = 36 km MAG=5.7 D = 78.6 Az = 333.0 (USCGS) h = 37 km (pP) h = 44 km (sP) PV1:1.4s 133.5nm PV2:1.4s 214.0nm LmH:15.5s 7.9 $\mu$ m LmV:16s 9.0 $\mu$ m MPV1=5.8 MPV2=6.0 MLH=6.2 MLV=6.2
29.	eP	17 26 06.5	<u>Kurile Islands</u> 43.36 N 147.29 E H = 17 14 06.0 h = normal MAG=4.5 D = 78.7 Az = 333.0 (USCGS) PV:1.0s 11.8nm MPV=4.9
29.	eiP	19 51 20	<u>Kurile Islands</u> 43.34 N 147.34 E H = 19 39 18.1 h = normal MAG=4.5 D = 78.8 Az = 333.1 (USCGS) h = 37 km PV:1.1s 12.0nm MPV=4.8
29.	eP	20 56 07	<u>Kurile Islands</u> 43.42 N 147.29 E H = 20 44 05.8 h = normal MAG=4.5 D = 78.7 Az = 333.0 (USCGS) PV:1.4s 18.4nm MPV=4.9
29.	+eiP e ei eS	21 03 50.8 03 52 03 59.5 13 18	<u>Kodiak Island</u> 56.42 N 153.55 W H = 20 52 21.3 h = 6 km MAG=5.2 D = 72.6 Az = 9.8 (USCGS) PV:0.8s 37.7nm

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Day	Phase	h m s	Remarks
cont. 29.	eSS LmH LmV	C 21 18 00 40.6 40.8	LmH:18s 0.7 $\mu$ m LmV:18s 0.8 $\mu$ m MPV=5.7 MLH=5.0 MLV=5.1 e 03 58 e 13 32 e(C) 22 10
29.	eP	21 23 02.5	<u>Kodiak Island</u> 56.48 N 153.27 W H = 21 11 36.1 h = 19 km MAG=4.6 D = 72.5 Az = 10.0 (USCGS) PV:1.0s 14.2nm MPV=5.1
29.	eP	22 50 10	<u>Kurile Islands</u> 42.99 N 147.07 E H = 22 38 08.1 h = normal MAG=4.7 D = 79.0 Az = 332.9 (USCGS)
30.	eP e epP e	01 42 15.5 42 16.5 42 25.5 42 38	<u>Kurile Islands</u> 43.27 N 146.79 E H = 01 30 12.7 h = 12 km MAG=5.3 D = 78.6 Az = 332.8 (USCGS) h = 37 km PV:1.3s 50.0nm MPV=5.4
30.	eiP epP e eS eSS e LmH LmV	C C 02 00 30.5 00 52 01 00.5 10 30 15.7 20.0 33.0 40.2	<u>Kurile Islands</u> 43.25 N 147.68 E H = 01 48 28.6 h = normal MAG=5.1 D = 79.0 Az = 333.3 (USCGS) h = 80 km PV:1.4s 52.2nm LmH:22.5s 8.3 $\mu$ m LmV:18s 3.2 $\mu$ m MPV=5.4 MLH=6.0 MLV=5.7
30.	ePKP ei	02 12 40 12 43	<u>Fiji Islands</u> 20.70 S 178.60 W H = 01 53 59.9 h = 590 km MAG=4.5 D = 149.0 Az = 347.3 (USCGS) PV2:1.2s 15.3nm
30.	eP epP	02 32 33 32 46.5	<u>Kurile Islands</u> 43.53 N 147.68 E H = 02 20 31.1 h = 25 km MAG=4.8 D = 78.9 Az = 333.2 (USCGS) h = 50 km PV:1.2s 10.4nm MPV=4.7

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Day	Phase	h m s	Remarks
30.	eP epP	02 50 13.5 50 23	<u>Kurile Islands</u> 43.32 N 147.68 E H = 02 38 12.6 h = normal MAG=5.1 D = 78.9 Az = 333.2 (USCGS) h = 35 km PV:1.4s 40.0nm MPV=5.3
30.	eP e	02 54 28.5 54 41	<u>Kurile Islands</u> 43.57 N 147.61 E H = 02 42 28.2 h = normal MAG=4.7 D = 78.6 Az = 333.2 (USCGS) PV:1.4s 15.4nm MPV=4.8
30.	eP	03 05 47.5	<u>Kurile Islands</u> 43.37 N 147.56 E H = 02 53 46.9 h = normal MAG=4.7 D = 78.8 Az = 333.2 (USCGS) PV:1.4s 15.3nm MPV=4.8
30.	+eP i LmV LmH	03 13 46 13 49.5 53.5 53.8	<u>Kurile Islands</u> 43.07 N 147.17 E H = 03 01 44.0 h = 28 km MAG=5.4 D = 78.9 Az = 333.0 (USCGS) PV:1.6s 56.8nm LmH:16s 5.5 $\mu$ m LmV:17s 7.8 $\mu$ m MPV=5.4 MLH=6.0 MLV=6.1
30.	eP epP	03 35 42.5 35 55	<u>Kurile Islands</u> 43.30 N 147.42 E H = 03 23 41.9 h = normal MAG=4.9 D = 78.8 Az = 333.1 (USCGS) h = 45 km PV:1.2s 25.5nm MPV=5.1
30.	e	03 39 05	
30.	-eiP esP eiPP epPP eSKS ePKKP ePKPPKP	03 57 17 04 00 14 01 35 03 27.5 06 58 13 18 21 36	<u>Java</u> 6.05 S 113.35 E H = 03 44 24.4 h = 594 km MAG=6.2 D = 102.1 Az = 320.4 (USCGS) PV:1.1s 33.7nm MPV=5.7

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Day	Phase	h m s	Remarks
30.	eP epP	04 22 39 22 50	<u>Kurile Islands</u> 43.10 N 147.14 E H = 04 10 36.1 h = 24 km MAG=5.1 D = 78.9 Az = 333.0 (USCGS) h = 41 km PV:1.6s 37.9nm MPV=5.2
30.	eiP epP esP	06 20 35.5 20 45 20 50	<u>Kurile Islands</u> 43.45 N 147.08 E H = 06 08 35.2 h = normal MAG=5.0 D = 78.6 Az = 332.9 (USCGS) h = 35 km (pP) h = 40 km (sP) PV:2.0s 37.0nm (mod.Krumbach) MPV=5.1
30.	eP	08 25 20	<u>Hindukush</u> 36.39 N 70.74 E H = 08 17 32.3 h = 205 km MAG=5.2 D = 44.0 Az = 308.2 (USCGS) PV:0.7s 11.9nm MPV=4.7
30.	eP ei e LmH C	18 47 04.5 47 06.5 47 14 19 19	<u>Kurile Islands</u> 43.03 N 147.22 E H = 18 35 00.9 h = 25 km MAG=4.9 D = 79.0 Az = 333.0 (USCGS) PV:1.3s 27.8nm LmH(C):20s 0.6 $\mu$ m MPV=5.1 MLH(C)=4.9
31.	ePKP	01 39 16	<u>Fiji Islands</u> 17.86 S 178.08 W H = 01 20 44.4 h = 632 km MAG=4.4 D = 146.4 Az = 348.8 (USCGS) PV:0.7s 0.7nm
31.	eP	02 16 23.5	<u>Santiago del Estero Prov./Argentina</u> 27.73 S 63.19 W H = 02 03 29.4 h = 580 km MAG=4.9 D = 102.1 Az = 38.9 (USCGS) PV:1.3s 11.1nm
31.	LmH LmV	02 18.0 18.2	LmH:15s 1.2 $\mu$ m LmV:16s 1.7 $\mu$ m

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Day	Phase	h m s	Remarks
31.	eIP	05 07 44.5	<u>Kurile Islands</u> 43.55 N 147.62 E H = 04 55 44.1 h = normal MAG=4.6 D = 78.7 Az = 333.2 (USCGS) PV:1.2s 12.8nm MPV=4.8
31.	eP e e LmH LmV	11 55 35 55 40.5 57 59.5 12 26.5 27.5	<u>Tibet</u> 29.86 N 92.07 E H = 11 45 16.9 h = 18 km MAG=5.2 D = 61.7 Az = 314.5 (USCGS) PV1:1.8s 35.8nm PV2:1.2s 22.9nm LmH:18s 0.5 $\mu$ m LmV:16s 0.7 $\mu$ m MPV1=5.3 MPV2=5.3 MLH=4.8 MLV=5.0
31.	eP e e LmH LmV	22 10 31 10 41 10 51 50.4 50.5	<u>Kurile Islands</u> 42.96 N 147.77 E H = 21 58 24.1 h = normal MAG=4.9 D = 79.3 Az = 333.3 (USCGS) PV:1.4s 18.4nm LmH:14s 0.8 $\mu$ m MPV=4.9 MLH=5.2

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Day	Phase	h m s	Remarks
1.	LmH C	08 40.5	<u>Vancouver Island Region</u> 49.96 N 129.78 W H = 07 58 03.5 h = 14 km MAG=5.4 (USCGS) D = 74.6 LmH(C):27.5s 0.7 $\mu$ m MLH(C)=4.8
1.	iP e e LmH C	12 59 23 59 32.5 59 39 13 45	<u>Kurile Islands</u> 43.22 N 146.87 E H = 12 47 23.4 h = 35 km MAG=5.5 D = 78.7 Az = 332.8 (USCGS) PV:1.3s 83.5nm (mod.Krumbach) LmH(C):18s 0.8 $\mu$ m MPV=5.5 MLH(C)=5.1
1.	ePKP	16 44 52	<u>Loyalty Islands</u> 22.51 S 170.69 E H = 16 25 12.3 h = normal MAG=- D = 147.5 Az = 335.0 (USCGS)
1.	e(P)	19 14 13	<u>Off Coast of Hokkaido, Japan</u> 42.95 N 147.01 E H = 19 02 09.4 h = normal MAG=4.7 (USCGS) D = 79.0
1.	eIPKP e e	23 32 52.5 33 05 33 34	<u>New Hebrides Islands</u> 18.52 S 169.01 E H = 23 13 47.2 h = 228 km MAG=5.1 D = 143.2 Az = 335.9 (USCGS) PV:1.3s 61.1nm
2.	ePKP	01 03 03.5	<u>Fiji Islands</u> 19.87 S 178.21 W H = 00 44 02.1 h = 366 km MAG=4.4 D = 148.3 Az = 348.1 (USCGS)
2.	ePKP e e	10 10 11 10 17 10 52.5	<u>Loyalty Islands</u> 22.25 S 171.27 E H = 09 50 41.2 h = 95 km MAG=5.1 D = 147.5 Az = 335.7 (USCGS) PV:1.4s 15.3nm
2.	e	15 18 26	<u>Albania</u> 41.44 N 20.06 E H = 15 15 42.3 h = normal MAG=- D = 10.9 Az = 330.4 (USCGS)

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Day	Phase	h m s	Remarks
2.	ePKP eipPKP eisPKP	18 48 37.5 48 49 48 53.5	<u>Tonga Islands</u> 22.81 S 175.01 W H = 18 28 46.0 h = 45 km MAG=5.0 D = 151.7 Az = 351.1 (USCGS) h = 40 km (pP) h = 44 km (sP)
2.	eP epP	20 27 28.5 27 39	<u>Kurile Islands</u> 43.16 N 146.99 E H = 20 15 25.7 h = 25 km MAG=5.0 D = 78.8 Az = 332.9 (USCGS) h = 39 km PV1:0.9s 14.1nm PV2:1.1s 14.4nm MPV1=5.0 MPV2=4.9
3.	+eP epP esP LmH LmV	03 38 08 38 19 38 26 04 14.3 14.8	<u>Kurile Islands</u> 46.61 N 152.57 E H = 03 26 16.6 h = 45 km MAG=5.3 D = 77.4 Az = 335.7 (USCGS) h = 41 km (pP) h = 50 km (sP) PV:1.1s 77.0nm LmH:18s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m MPV=5.7 MLH=4.8 MLV=4.9
3.	ePKP	05 35 52.5	<u>Fiji Islands</u> 17.47 S 176.33 E H = 05 16 18.6 h = normal MAG=5.1 D = 144.7 Az = 343.1 (USCGS)
3.	eP e e eS e LmH LmV	05 49 16 49 24 50 36 06 00 12 00 18 33.9 34.0	<u>Near Coast of Guerrero, Mexico</u> 16.66 N 99.35 W H = 05 36 14.6 h = 9 km MAG=5.7 D = 89.9 Az = 36.5 (USCGS) PV:1.5s 20.2nm LmH:18s 3.2 $\mu$ m LmV:18.5s 4.6 $\mu$ m MPV=6.0 MLH=5.8 MLV=6.0
3.	e e ePg e e(Sn)	10 41 27 41 31 41 38 41 52.5 42 18	<u>Silesia</u> 50 1/2 N 19 E H = 10 40 03 (BCIS) D = 4.7 e 42 33 e 42 36 e 42 39

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Day	Phase	h m s	Remarks
3.	+eP e epP esP LmH LmV	11 42 44.5 42 46.5 42 54.5 42 59.5 12 21.2 23.7	<u>Kurile Islands</u> 43.20 N 146.76 E H = 11 30 44.4 h = normal MAG=5.5 D = 78.7 Az = 332.7 (USCGS) h = 37 km (pP) h = 41 km (sP) PV1:1.3s 47.2nm PV3:1.3s 55.5nm LmH:13s 0.5nm LmV:16s 0.7nm MPV1=5.4 MPV3=5.4 MLH=5.0 MLV=5.1
3.	+eP e -i epP esP es LmH LmV	15 53 12.5 53 14 53 15 53 49 54 03.5 16 03 31 33 34	<u>Chiapas, Mexico</u> 16.59 N 93.52 W H = 15 40 44.5 h = 124 km MAG=5.5 D = 86.6 Az = 38.0 (USCGS) h = 147 km (pP) h = 170 km (sP) PV:1.8s 92.0nm MPV=5.3
4.	eiP e LmH LmV	09 22 26.5 22 27 10 02.5 02.1	<u>Kurile Islands</u> 43.22 N 147.23 E H = 09 10 25.3 h = normal MAG=5.4 D = 78.8 Az = 333.0 (USCGS) PV:1.4s 49.0nm LmH:16s 1.1 $\mu$ m LmV:16s 1.3 $\mu$ m MPV=5.3 MLH=5.3 MLV=5.4
4.	-iP e e(pP) eS ePS eSS LmH LmV	11 12 52.5 12 55.5 13 04 22 48 23 30 28 07 45.3 52.7	<u>Kurile Islands</u> 42.98 N 147.08 E H = 11 00 50.1 h = normal MAG=5.5 D = 79.0 Az = 332.9 (USCGS) (h = 37km)(pP) PV1:1.8s 128.0nm PV2:1.7s 167.0nm LmH:23s 27.1 $\mu$ m LmV:19s 22.3 $\mu$ m MPV2=5.8 MLH=6.5 MLV=6.6 e 12 54 e 13 25.5 e 18 24 e 22 58 i 32 26 ei (C) 32 33
4.	ePKHKP ePKP2 e	16 46 11 46 22.5 46 44	<u>Tonga Islands</u> 23.30 S 174.99 W H = 16 26 18.2 h = 40 km MAG=4.9 D = 152.2 Az = 351.0 (USCGS)

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Day	Phase	h m s	Remarks
4.	ePKHKP	19 37 25.5	<u>Tonga Islands</u> 20.79 S 174.29 W H = 19 17 36.5 h = 34 km MAG=4.7 D = 149.8 Az = 352.5 (USCGS) PV:1.3s 16.7nm
4.	ePKP	19 51 57 51 02.5	<u>Tonga Islands</u> 20.46 S 174.04 W H = 19 32 15.8 h = normal MAG=4.5 D = 149.5 Az = 352.9 (USCGS)
5.	e(P) eipP LmH LmV	09 40 52 41 08 C 10 17.2 24.4	<u>Ryukyu Islands</u> 25.89 N 128.39 E H = 09 28 19.8 h = normal MAG=4.8 D = 85.6 Az = 325.2 (USCGS) LmH(C):20s 1.9/um LmV:13s 1.4/um MLH(C)=5.5 MLV=5.6
5.	eP e e	11 20 41 20 48.5 20 53.5	<u>Sicily</u> 37.93 N 12.79 E H = 11 17 39.2 h = normal MAG=4.3 D = 12.7 Az = 356.6 (USCGS)
6.	eP	06 57 04.5	<u>Near East Coast of Kamchatka</u> 54.96 N 162.10 E H = 06 45 42.9 h = normal MAG=4.6 D = 71.9 Az = 340.7 (USCGS) PV:1.0s 14.2nm MPV=5.1
6.	eP e	09 59 15 59 17.5	<u>Near East Coast of Kamchatka</u> 54.98 N 161.95 E H = 09 47 53.4 h = normal MAG=4.8 D = 71.9 Az = 340.6 (USCGS) PV:1.1s 29.0nm MPV=5.3
6.	e LmH LmV	11 38 16 C 12 20.5 C 20.5	<u>Near Coast of Central Chile</u> 28.50 S 70.99 W H = 11 19 23.1 h = 23 km MAG=5.7 (USCGS) D = 107.1

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Day	Phase	h m s	Remarks
6.	ePS eSS LmH LmV	C 23 14 19 19 32 C 40.7 C 41.7	<u>Off Coast of Mexico</u> 10.19 N 103.68 W H = 22 47 52.4 h = 53 km MAG=4.8 (USCGS) D = 97.7 LmH(C):23s 1.6/um LmV(C):24s 1.5/um MLH(C)=5.5 MLV(C)=5.4
7.	eP	00 35 22	<u>Mariana Islands</u> 21.64 N 142.90 E H = 00 22 28.6 h = 309 km MAG=5.3 D = 96.2 Az = 331.2 (USCGS)
7.	LmH	05 39.5	
7.	e(P) e LmH LmV	08 47 44 47 54 09 23.5 24.5	<u>Off Coast of Oregon</u> 43.61 N 127.27 W H = 08 35 29.6 h = normal MAG=5.1 D = 79.5 Az = 25.2 (USCGS) LmH:15s 0.6/um LmV:16s 0.8/um MLH=5.0 MLV=5.2
7.	eP epP	12 27 18 27 30	<u>Kurile Islands</u> 43.04 N 146.77 E H = 12 15 17.3 h = 42 km MAG=4.6 D = 78.8 Az = 332.8 (USCGS) h = 44 km
7.	ePKP e	13 29 50 30 08	<u>South of Fiji Islands</u> 25.30 S 179.68 E H = 13 10 52.3 h = 491 km MAG=4.5 D = 153.1 Az = 343.1 (USCGS)
7.	+eiP i eS LmH LmV eScP	22 26 16.5 26 19 C 29 30 30.5 31.5 34 07.5	<u>Dodecanese Islands</u> 36.74 N 26.82 E H = 22 22 20.2 h = 161 km MAG=5.0 D = 17.7 Az = 326.6 (USCGS) PV2:1.3s 472.0nm MPV=5.7 i 29 32 e 30 22 (C)
8.	eP e e eS LmH LmV	11 07 12 07 13 07 15.5 C 14 24 C 32 C 32	<u>Arabian Sea</u> 14.62 N 53.94 E H = 10 58 22.1 h = normal MAG=5.2 D = 49.5 Az = 325.7 (USCGS) PV2:1.8s 51.0nm MPV2=5.5

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Day	Phase	h m s	Remarks
8.	eP epP esP	12 16 13 16 24.5 16 29	<u>Kurile Islands</u> 43.15 N 147.20 E H = 12 04 12.8 h = 45 km MAG=5.0 D = 78.9 Az = 333.0 (USCGS) h = 43 km (pP) PV:1.0s 14.2nm MPV=5.0
8.	-eP1 +eP2 eipP ePP eIS ISPP eSS LmH LmV	12 37 10 37 11 37 20 39 10 44 21 44 22 48 05 13 02.2 02.3	<u>Arabian Sea</u> 14.63 N 54.04 E H = 12 28 21.0 h = normal MAG=5.4 D = 49.6 Az = 325.7 (USCGS) h = 43 km PV2:2.7s 413.0nm LmH:17s 3.1 $\mu$ m LmV:17s 3.4 $\mu$ m MPV2=5.9 MLH=5.4 MLV=5.5
9.	e(P) e i e	13 25 30 25 31 25 32 25 32.5	<u>Rumania</u> 45.65 N 26.40 E H = 13 22 53.9 h = 122 km MAG=4.6 D = 11.1 Az = 302.2 (USCGS) PV3:1.3s 72.2nm
9.	e	15 44 55	<u>Komandorsky Islands</u> 53.51 N 169.68 E H = 15 33 06.3 h = normal MAG=5.4 D = 74.6 Az = 345.7 (USCGS)
9.	ePKHKP e e	16 55 18 55 36 55 52	<u>Loyalty Islands</u> 23.32 S 171.19 E H = 16 35 41.4 h = 99 km MAG=4.7 D = 148.4 Az = 334.9 (USCGS)
9.	ePKHKP	18 26 20	<u>Tonga Islands</u> 22.60 S 175.11 W H = 18 06 28.2 h = 50 km MAG=5.0 D = 151.5 Az = 351.0 (USCGS) PV:1.6s 22.7nm
10.	+iP ePoP epP LmH LmV	10 11 55.5 12 03 12 14 50.7 50.7	<u>Kurile Islands</u> 46.01 N 152.25 E H = 10 00 05.8 h = 87 km MAG=5.7 D = 77.9 Az = 335.6 (USCGS) h = 78 km PV:1.9s 341.0nm LmH:19s 0.9 $\mu$ m LmV:20s 1.1 $\mu$ m MPV=5.9 MLH=5.1 MLV=5.2

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Day	Phase	h m s	Remarks
10.	eP	17 12 00	<u>Kashmir-Tibet Border Region</u> 34.14 N 78.49 E H = 17 03 03.8 h = 37 km MAG=5.2 D = 50.3 Az = 310.5 (USCGS)
11.	eP	12 26 10	<u>Bonin Islands</u> 28.00 N 139.45 E H = 12 14 08.6 h = 513 km MAG=4.7 D = 89.2 Az = 329.8 (USCGS) PV:1.5s 15.0nm (mod.Krumbach) MPV=5.0
11.	eP é LmV LmH	20 47 24 58 45 21 07.0 07.6	<u>Kashmir-Tibet Border Region</u> 34.17 N 78.63 E H = 20 38 29.4 h = 44 km MAG=5.1 D = 50.4 Az = 310.5 (USCGS) PV:1.0s 19.0nm LmV(C):35s 0.5 $\mu$ m LmH(C):23s 0.9 $\mu$ m MPV=5.0 MLV(C)=4.3 MLH(C)=4.7
12.	eP	02 56 14.5	<u>Gulf of Alaska</u> 57.26 N 149.82 W H = 02 44 55.6 h = normal MAG=4.2 D = 71.4 Az = 12.3 (USCGS) PV:0.8s 9.4nm MPV=5.0
12.	+P diff. ePKP eP iPP eSKS eiSKKS ePKKP3 eiSKSP ePPS eiSS LmH LmV	06 00 21.5 03 40 03 44.5 05 24.5 10 40 12 22 13 24 15 16 16 43 22 18 59.9 07 03.8	<u>New Ireland</u> 5.51 S 153.25 E H = 05 44 47.6 h = 74 km MAG=6.2 D = 124.8 Az = 331.2 (USCGS) PPH:16s 6.0 $\mu$ m PPV:16s 8.7 $\mu$ m LmH:21.5s 21.5 $\mu$ m LmV:21s 93.1 $\mu$ m MPPH=7.1 MPPV=7.0 MLH=7.5 MLV=7.4 e 05 29(C) i 05 31 e 05 33 e 05 35 ei 10 44 i 13 28 i 13 32 i 15 24 e 17 20 e 22 23

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Day	Phase	h m s	Remarks
12.	+ePKHKP ePKP2 esPKP2 e e	07 56 22 56 22.5 56 38 57 23.5 57 38	<u>Tonga Islands</u> 18.36 S 173.11 W H = 07 36 37.4 h = 26 km MAG=4.8 D = 147.6 Az = 354.4 (USCGS) PV4:1.6s 60.6nm
12.	ePKIKP e	08 08 16 08 18	<u>South of Fiji</u> 22.7 S 179.8 E H = 07 48 37.0 h = 33 km MAG=4.9 (ISC) D = 150.5 PV:1.1s 9.6nm
12.	+iP +iPP iPPP iPPPP ei ei LmH LmV	10 22 01.3 22 13.5 22 19 22 25 24 18 24 20 30.1 30.1	<u>Southern Italy</u> 38.07 N 17.80 E H = 10 18 51.9 h = 15 km MAG=5.3 D = 13.3 Az = 342.7 (USCGS) PV:1.4s 153.3nm PH:1.4s 102.0nm LmH:16s 1.4/um MLH=4.1
12.	eP e e e LmH LmV	16 29 05 29 11.5 29 16 29 22 34.9 35.0	<u>Sicily</u> 37.87 N 13.13 E H = 16 26 03.6 h = normal MAG=4.4 D = 12.8 Az = 355.7 (USCGS) PV:1.2s 10.2nm LmH:11s 1.3/um LmV:14s 0.8/um MLH=4.2
12.	LmH C	22 58	<u>Burma</u> 22.89 N 95.36 E H = 22 17 36.0 h = 23 km MAG=4.7 (USCGS) D = 68.8 LmH(C):20s 0.5/um MLH(C)=4.7
13.	eP epP LmV C LmH C	15 38 40 38 51.5 16 21.7 24.2	<u>Kurile Islands</u> 43.18 N 146.64 E H = 15 26 40.5 h = 37 km MAG=4.7 D = 78.7 Az = 332.7 (USCGS) h = 43 km PV:1.8s 20.4nm LmH(C):18s 0.4/um LmV(C):20s 0.5/um MPV=4.9 MLH(C)=4.8 MLV(C)=4.9

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Day	Phase	h m s	Remarks
14.	eP e LmH C LmV C	09 31 58.5 32 03 39 39	<u>Jan Mayen Islands</u> 71.41 N 2.00 W H = 09 27 06.0 h = normal MAG=4.5 D = 21.7 Az = 156.1 (USCGS) PV2:1.6s 26.7nm LmH(C):25s 0.3/um LmV(C):25s 0.3/um MLH(C)=3.6 MLV(C)=3.7
14.	LmV C LmH C	15 39.7 39.8	<u>Volcano Islands Region</u> 25.79 N 141.10 E H = 14 38 25.8 h = 42 km MAG=4.5 (USCGS) D = 91.8 LmV(C):13s 0.3/um MLV(C)=5.0
15.	eP ePoP epP esP eSS C LmH C LmV C	02 54 37.5 54 47 54 53.5 54 55.5 03 09 35 34.1 34	<u>Fox Islands/Aleutian</u> 52.15 N 171.39 W H = 02 42 47.3 h = 61 km MAG=5.3 D = 77.5 Az = 358.0 (USCGS) PV:1.0s 9.5nm LmH(C):24s 0.5/um LmV(C):20s 0.4/um MPV=4.9 MLH(C)=4.8 MLV(C)=4.8 e 54 45 e 55 08 e 55 09.5
15.	eP epP e e	15 56 54 57 05 57 07.5 57 30	<u>Kurile Islands</u> 47.09 N 153.33 E H = 15 45 02.0 h = 41 km MAG=5.0 D = 77.2 Az = 336.1 (USCGS) h = 41 km PV:0.9s 9.5nm MPV=4.9
15.	eP	23 02 33	<u>North of Ascension Islands</u> 1.85 S 12.74 W H = 22 52 54.2 h = normal MAG=5.1 D = 56.3 Az = 18.4 (USCGS) PV:1.2s 10.2nm MPV=4.7
16.	eP	05 48 07	<u>Tsinghai Province, China</u> 33.73 N 95.08 E H = 05 37 54.2 h = normal MAG=4.8 D = 60.9 Az = 313.6 (USCGS) PV:0.8s 7.1nm MPV=4.9

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Day	Phase	h m s	Remarks
16.	eP epP e	14 34 16.5 36 20 36 25.5	<u>Sea of Okhotsk</u> 49.67 N 147.75 E H = 14 23 42.6 h = 582 km MAG=4.7 D = 73.3 Az = 332.6 (USCGS) h = 607 km PV:1.0s 19.0nm MPV=4.6
17.	e e	08 31 10.5 31 13	<u>Czechoslovakia</u> , Explosion of 7.7 Tons 50.68 N 14.67 E (PRU) D = 1.9
18.	eP	09 47 07.5	<u>Banda Sea</u> 7.15 S 125.88 E H = 09 29 26.1 h = 457 km MAG=5.3 D = 110.8 Az = 321.6 (USCGS)
19.	ePKHKP	00 44 47.5	<u>Tonga Islands</u> 23.73 S 175.91 W H = 00 24 53.9 h = 36 km MAG=4.6 D = 152.5 Az = 349.6 (USCGS) PV:1.3s 11.1nm
19.	ePKHKP	10 09 58.5	<u>South of Fiji Islands</u> 22.78 S 176.53 W H = 09 50 07.2 h = 46 km MAG=4.7 D = 151.5 Az = 349.1 (USCGS)
19.	+ePKIKP e ePP e LmH LmV	14 14 06.5 14 08 15 55.5 16 45 15 12.3 12.3	<u>New Ireland</u> 5.48 S 153.06 E H = 13 55 12.2 h = 73 km MAG=5.5 D = 124.7 Az = 331.2 (USCGS) PV:2.0s 53.0nm LmH(C):18s 0.8 $\mu$ m LmV:20s 1.0 $\mu$ m MLH(C)=5.4 MLV(C)=(5.5)
19.	eP i iS LmH	22 49 09 49 11 51 52 58	<u>Aegean Sea</u> 39.39 N 25.00 E H = 22 45 41.2 h = 7 km MAG=5.9 D = 14.7 Az = 324.4 (USCGS)
20.	eP e e	00 42 40 42 47 43 27	<u>Aegean Sea</u> 39.68 N 25.25 E H = 00 39 14.8 h = normal MAG=4.9 D = 14.6 Az = 323.3 (USCGS)

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Day	Phase	h m s	Remarks
20.	eP e e LmH	02 25 24 25 29 25 43 30.4	<u>Aegean Sea</u> 39.57 N 25.43 E H = 02 21 53.0 h = 13 km MAG=5.0 D = 14.7 Az = 323.3 (USCGS) LmH:14s 11.7nm
20.	eP e e epP e LmV	05 17 25 17 27.5 17 31 17 33.5 17 38 46.5	<u>Kodiak Island</u> 58.37 N 151.74 W H = 05 06 11.9 h = 34 km MAG=4.9 D = 70.5 Az = 11.2 (USCGS) PV4:1.4s 46.0nm LmV(C):25s 0.4 $\mu$ m MPV4=5.4 MLV(C)=4.6
20.	e(P) LmH LmV	06 19 18 24.2 24.9	<u>Aegean Sea</u> 39.46 N 25.06 E H = 06 15 45.2 h = 32 km MAG=4.3 (USCGS) D = 14.7 LmH:12s 1.3 $\mu$ m LmV(C):16s 0.4 $\mu$ m MLH=4.3 MLV(C)=3.8
20.	eP e LmH LmV	09 39 15 39 19 44.3 44.9	<u>Aegean Sea</u> 39.29 N 24.89 E H = 09 35 49.9 h = normal MAG=4.4 D = 14.7 Az = 324.9 (USCGS) PV2:1.6s 22.7nm LmH:13s 3.0 $\mu$ m LmV:13s 1.3 $\mu$ m MLH=4.6 MLV=4.4
20.	eP ei e LmH LmV	09 44 34 44 44 44 52 49.6 50.8	<u>Aegean Sea</u> 39.35 N 24.85 E H = 09 41 09.6 h = normal MAG=4.7 D = 14.6 Az = 324.8 (USCGS) PV:1.3s 33.3nm LmH:12s 6.2 $\mu$ m LmV:10s 2.9 $\mu$ m MLH=5.0 MLV=4.9
20.	eP e e(SS) LmH LmV	16 54 55 54 57 58 25 17 03.1 03.9	<u>Dodecanese Islands</u> 36.18 N 27.47 E H = 16 50 43.3 h = 53 km MAG=4.9 D = 18.4 Az = 326.6 (USCGS) PV2:2.2s 193.0nm PH2:2.2s 165.0nm LmH:11s 2.2 $\mu$ m LmV:11s 2.0 $\mu$ m MPV2=4.8 MPH2=4.9 MLH=4.7 MLV=4.8

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Day	Phase	h m s	Remarks
20.	iP	17 42 36	<u>Hokkaido, Japan</u> 41.16 N 142.59 E H = 17 30 34.5 h = 36 km MAG=4.6 D = 79.0 Az = 330.7 (USCGS) PV:0.8s 9.4nm MPV=4.9
20.	eP LmH LmV	21 08 52 13.9 14.7	<u>Aegean Sea</u> 39.05 N 25.14 E H = 21 05 23.4 h = normal MAG=4.9 (USCGS) D = 15.0 LmH:12s 0.8 $\mu$ m MLH=4.1
21.	eS eSS LmH LmV	C 00 14 14 C 19 40 01 43 45	<u>Kyushu, Japan</u> 31.97 N 130.84 E H = 23 51 43.0 h = normal MAG=4.9 (USCGS) D = 81.8 LmH:13.5s 4.0 $\mu$ m LmV:13.5s 3.8 $\mu$ m MLH=6.0 MLV=6.0
21.	LmH LmV	00 26.0 27.1	<u>Aegean Sea</u> 39.55 N 25.05 E H = 00 17 32.0 h = normal MAG=4.4 (USCGS) D = 14.6 LmH:12s 1.0 $\mu$ m LmV:11s 0.6 $\mu$ m MLH=4.2 MLV=4.2
21.	eP esP eiSKS eSS eSSSS LmH LmV	01 57 11.5 57 29 C 02 07 24 C 12 40 C 18.8 36.3 38.2	<u>Kyushu, Japan</u> 32.04 N 130.59 E H = 01 44 50.5 h = 3 km MAG=5.0 D = 81.7 Az = 325.7 (USCGS) LmH:13s 8.7 $\mu$ m LmV:13s 7.0 $\mu$ m MLH=6.3 MLV=6.2 ei 13 04 (C)
21.	LmH LmV	05 48.9 48.8	LmH:7.5s 0.6 $\mu$ m LmV:10s 0.4 $\mu$ m
21.	eiP epP e(sP)	06 30 05 30 31 30 37.5	<u>Andreanof Islands</u> 52.32 N 175.34 W H = 06 18 21.6 h = 108 km MAG=5.2 D = 77.2 Az = 355.5 (USCGS) h = 102 km (pP)

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Day	Phase	h m s	Remarks
21.	eiP epP e	06 32 47 33 13 33 19	<u>Andreanof Islands</u> 52.27 N 175.31 W H = 06 21 03.6 h = 107 km MAG=5.3 D = 77.3 Az = 355.5 (USCGS) h = 108 km PV:1.0s 19.0nm MPV=4.9
21.	ePKIKP LmH LmV	09 16 23 C 10 15 C 15	<u>Banda Sea</u> 4.03 S 128.52 E H = 08 57 49.1 h = 18 km MAG=5.2 (USCGS) D = 109.9 LmH(C):20s 0.7 $\mu$ m LmV(C):20s 0.5 $\mu$ m MLH(C)=5.3 MLV(C)=5.1
21.	e(P) LmH LmV	12 39 32 44.4 45.4	<u>Aegean Sea</u> 39.5 N 24.9 E H = 12 36 00 (BCIS) D = 14.6 LmH:13s 1.1 $\mu$ m LmV:10s 0.6 $\mu$ m MLH=4.1 MLV=4.2
21.	eP e e ePP	15 42 18 45 06 45 16 45 25	<u>Nevada, Nuclear Explosion "KNOX"</u> 37°07'00"N 116°03'13"W H = 15 30 00 (USAEC) D = 81.2 (h = 19 km) MAG=5.8 (ISC) PV:1.5s 53.7nm MPV=5.4
21.	eP	19 20 35	<u>Andreanof Islands</u> 51.36 N 176.08 W H = 19 08 39.3 h = 49 km MAG=4.7 D = 78.2 Az = 355.0 (USCGS) PV:1.0s 9.5nm MPV=4.9
21.	+iPKP2	19 47 35	<u>Kermadec Islands</u> 30.23 S 178.95 W H = 19 27 30 h = 228 km MAG=5.0 (USCGS) D = 158.1 PV:1.2s 51.0nm
21.	eP epP ePS eSS	21 19 51.5 20 07.5 30 32 C 35 12	<u>Andreanof Islands/Aleutian</u> 51.38 N 176.00 W H = 21 07 56.9 h = 47 km MAG=5.2 D = 78.1 Az = 355.1 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
21.	LmH LmV	22 03.5 06.0	PV:0.9s 14.2nm LmH:18.5s 2.1/um LmV:17s 2.1/um MPV=5.1 MLH=5.5 MLV=5.6
21.	eP	23 41 53	<u>Southern Sinkiang Prov., China</u> 38.15 N 86.90 E H = 23 32 36.9 h = 28 km MAG=4.7 D = 53.0 Az = 309.6 (USCGS)
22.	e(P) e e LmH LmV	02 20 21 20 27 20 37 25.1 26	<u>Aegean Sea</u> 39.63 N 25.67 E H = 02 16 41.0 h = 24 km MAG=4.3 D = 14.8 Az = 322.7 (USCGS) LmH:16s 1.5/um LmV:11.5s 0.7/um MLH=4.2 MLV=4.2
22.	ePKP2 LmH LmV	02 22 34 03 40.7 41	<u>South Islands, New Zealand</u> 44.39 S 167.64 E H = 02 01 46.1 h = normal MAG=5.6 (USCGS) D = 162.7 PV:2.1s 150.0nm (mod.Krumbach) LmH:20s 0.8/um LmV:22s 1.3/um MLH=5.5
22.	e(P) e LmH LmV	05 01 24 01 32 06.2 07.5	<u>Aegean Sea</u> 39.46 N 25.05 E H = 04 57 49.1 h = normal MAG=4.6 D = 14.6 Az = 324.2 (USCGS) LmH:10.5s 1.3/um LmV:9.0s 1.2/um MLH=4.3 MLV=4.6
22.	eP e e	06 58 37 58 44 58 58.5	<u>Eastern Mediterranean Sea</u> 35.41 N 28.88 E H = 06 54 09.6 h = 36 km MAG=4.4 D = 19.7 Az = 325.9 (USCGS)
22.	ePKHKP ePKP2	09 32 33.5 32 42	<u>South of Fiji Islands</u> 21.84 S 179.69 E H = 09 13 47.8 h = 566 km MAG=4.7 D = 149.8 Az = 344.9 (USCGS)

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Day	Phase	h m s	Remarks
22.	eP e LmH LmV	10 31 27 46 00 11 10.5 12.6	<u>Kyushu, Japan</u> 31.97 N 130.71 E H = 10 19 07.6 h = 11 km MAG=4.9 (USCGS) D = 81.7 LmH:13s 3.8/um LmV:14s 3.2/um MLH=5.9 MLV=5.9
22.	eP eS e e	12 25 21 27 25 27 27.5 27 41	<u>Albania</u> 41.7 N 20.13 E H = 12 22 50 h = 14 km D = 10.7 Az = 330 (ISC) e 27 55 e 29 12
22.	eP e LmH LmV	17 58 52.5 59 50 18 38.5 44	<u>Andreanof Islands/Aleutian</u> 51.41 N 176.35 W H = 17 46 57.4 h = 49 km MAG=5.1 D = 78.1 Az = 354.8 (USCGS)
22.	LmH	C 20 57.3	LmH:20s 0.4/um
23.	ePKP	02 33 09	<u>Loyalty Islands</u> 22.18 S 170.24 E H = 02 13 24.5 h = 20 km MAG=4.9 D = 147.0 Az = 334.8 (USCGS)
24.	ePKIKP e ePKP2 esPKP2 LmH LmV	01 31 09 31 42 31 52 32 08 02 37 37.5	<u>South of Kermadec Islands</u> 32.49 S 177.66 W H = 01 11 11.6 h = 21 km MAG=5.4 D = 160.6 Az = 342.0 (USCGS) LmH(C):26s 0.5/um LmV(C):26s 0.5/um MLH=5.1
24.	eP	03 58 39	<u>Unimak Island</u> 53.77 N 163.39 W H = 03 46 53.4 h = 19 km MAG=4.4 D = 75.9 Az = 3.3 (USCGS)
24.	ePKHKP	04 10 53	<u>Tonga Islands</u> 20.57 S 174.02 W H = 03 51 04.4 h = normal MAG=4.6 D = 149.7 Az = 352.9 (USCGS)

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Day	Phase	h m s	Remarks
24.	eS e e e	12 59 47 13 00 30 00 39 00 52.5	<u>Albania</u> 41.44 N 20.18 E H = 12 55 03 h = 24 km MAG=4.5 D = 11.0 Az = 330 (ISC) e 01 08 e 01 12 e 01 20
24.	eP	13 26 30	<u>Romania</u> 45.76 N 26.58 E H = 13 23 53.4 h = 134 km MAG=4.4 D = 11.1 Az = 301.5 (USCGS) PV:1.0s 9.5nm
24.	eP	15 37 03	<u>Near South Coast of Honshu, Japan</u> 34.20 N 139.23 E H = 15 24 29.8 h = 7 km MAG=5.1 D = 83.7 Az = 329.7 (USCGS)
24.	eP LmH LmV	15 46 49 16 17.2 20	<u>Near South Coast of Honshu, Japan</u> 34.14 N 139.14 E H = 15 34 22.3 h = 33 km MAG=5.3 D = 83.8 Az = 329.5 (USCGS) PV:1.5s 20.2nm LmH:14s 0.8 $\mu$ m MPV=5.1 MLH=5.2
24.	eP LmH LmV	16 14 04.5 51.8 57.5	<u>Near South Coast of Honshu, Japan</u> 34.47 N 138.93 E H = 16 01 36.8 h = normal MAG=5.0 D = 83.4 Az = 329.4 (USCGS) PV:1.2s 12.8nm LmH:14s 0.8 $\mu$ m LmV:13s 0.5 $\mu$ m MPV=5.0 MLH=5.2 MLV=5.1
24.	eP LmH C	17 02 17 42.2	<u>Near South Coast of Honshu, Japan</u> 34.25 N 139.17 E H = 16 49 44.9 h = 4 km MAG=4.9 D = 83.7 Az = 329.5 (USCGS) PV:2.4s 45.5nm LmH(C):15s 0.5 $\mu$ m MPV=5.3 MLH(C)=5.1

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Day	Phase	h m s	Remarks
25.	ePn ei ePg eSn eSb1 i(Sg)	08 03 59 04 06 04 12.5 04 45 04 59 05 05	<u>Austria</u> 47.60 N 15.77 E H = 08 02 53.7 h = 0 km D = 4.1 Az = 320 (ISC) i 04 47 ei 04 52 ei 04 54
25.	-eP e e	10 37 11.5 37 12 37 42	<u>Hokkaido, Japan</u> 45.05 N 142.24 E H = 10 25 58.1 h = 295 km MAG=5.1 D = 75.5 Az = 330.1 (USCGS) PV:1.0s 57.0nm MPV=5.3
25.	eP epP	12 56 14 56 24	<u>Northern Sumatra</u> 4.03 N 95.84 E H = 12 43 49.5 h = normal MAG=5.0 D = 83.2 Az = 320.4 (USCGS)
25.	eP e e LmH LmV	15 44 11 44 16 44 19 51 51.9	<u>Algeria</u> 36.78 N 5.63 E H = 15 40 44.8 h = 20 km MAG=4.9 D = 14.5 Az = 15.4 (USCGS) LmH:12s 1.7nm LmV:14s 0.9nm MLH=4.4 MLV=4.3
25.	eP ePPS eSS LmH LmV	18 20 15 31 10 35 12 19 01.3 06.4	<u>Andreanof Islands/Aleutian</u> 51.39 N 176.04 W H = 18 08 19.9 h = 50 km MAG=5.3 D = 78.1 Az = 355.0 (USCGS) PV:1.0s 14.2nm LmH:15.5s 0.9 $\mu$ m LmV:16s 0.8 $\mu$ m MPV=5.1 MLH=5.2 MLV=5.2
25.	+eP ePcP esP e LmH LmV	20 12 43 12 44 13 08 13 17.5 51.5 52	<u>Near East Coast of Honshu, Japan</u> 37.60 N 141.43 E H = 20 00 31.5 h = 66 km MAG=5.5 D = 81.7 Az = 330.4 (USCGS) PV:1.5s 63.7nm MPV=5.5

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Day	Phase	h m s	Remarks
26.	eP	09 40 35.5	<u>Near Islands/Aleutian</u> 52.69 N 172.55 E H = 09 28 54.1 h = 56 km MAG=5.0 D = 75.8 Az = 347.6 (USCGS) PV:1.3s 19.5nm LmH(C):30s 0.3/um LmV(C):30s 0.3/um MPV=5.1 MLH=4.4 MLV=4.4
	LmH	10 09	
	LmV	09	
26.	e(P)	10 51 22	<u>Near Islands/Aleutian</u> 51.08 N 174.64 E H = 10 39 06.2 h = normal MAG=4.7 (USCGS) D = 78.7
26.	eP	11 02 47	<u>Taiwan</u> 22.68 N 121.50 E H = 10 50 16.7 h = 24 km MAG=6.0 D = 84.5 Az = 323.0 (USCGS) PV3:1.7s 325.0nm LmH:15.5s 145.0/um LmV:16s 207.0/um MPV3=6.3 MLH=7.5 MLV=7.6
	epP	02 50	
	ePcP	02 54	
	eSKS	13 10	
	e	21 02	
	LmH	45.6	
LmV	45.8		
26.	eP	13 50 39	<u>Hokkaido, Japan</u> 41.95 N 142.23 E H = 13 38 46.4 h = 72 km MAG=4.7 D = 78.2 Az = 330.4 (USCGS)
26.	eSKS	C 23 21 16	<u>Jujuy Province, Argentina</u> 23.63 S 66.26 W H = 22 57 27.2 h = 204 km MAG=5.3 (USCGS) D = 100.6
	eS	C 22 10	
27.	eP	05 33 08	<u>West Caroline Islands</u> 12.18 N 140.69 E H = 05 19 00.5 h = 19 km MAG=5.5 D = 103.3 Az = 329.5 (USCGS) LmH(C):35s 2.9/um MLH=5.6
	epP	33 11.5	
	ePP	37 13.5	
	ePS	C 46 22	
	ePPS	C 47 12	
	eSS	52 00	
LmH	C 06 10.5		
27.	eP	11 08 36	<u>West Caroline Islands</u> 12.12 N 140.58 E H = 10 54 38.5 h = normal MAG=5.4 D = 103.3 Az = 329.4 (USCGS)
	epP	12 55	
	e(SKS)	19 19	

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Day	Phase	h m s	Remarks
cont. 27.	ePS	11 22 04	SSPH:13.5s 1.1/um SSPV:13s 0.6/um LmH:16s 1.6/um LmV:15.5s 1.8/um MLH=5.7 MLV=5.7
	ePPS	22 55	
	eSSP	27 44	
	ePSS	27 48	
	LmH	11 58.9	
	LmV	58.8	
27.	eP	13 41 17.5	<u>Aegean Sea</u> 39.48 N 25.40 E H = 13 37 43.5 h = 30 km MAG=4.7 D = 14.8 Az = 323.5 (USCGS) PV:1.5s 13.4nm
28.	eP	10 03 19	<u>West Pakistan</u> 30.28 N 67.61 E H = 09 54 56.1 h = 25 km MAG=4.8 D = 46.0 Az = 312.8 (USCGS) PV:1.0s 19.0nm MPV=5.1
	epP	03 20	
	esP	03 29	
28.	iP	12 19 55	<u>South of Honshu, Japan</u> 32.91 N 137.69 E H = 12 08 01.5 h = 349 km MAG=5.8 D = 84.2 Az = 328.9 (USCGS) h = 341 km PV:1.2s 46.0nm SKSH:9.5s 6.3/um LmH:15s 2.9/um LmV:13s 3.3/um MPV=5.2 MSH=6.2 e 29 32 e 32 00 (C) i 35 30 (C) e 37 42 (C) ei 42 00
	epP	21 13	
	ePP	23 14	
	iSKS	29 40	
	esS	C 32 10	
	eSS	C 35 18	
LmH	58.8		
LmV	13 01.5		
29.	eP	05 21 47	<u>Greece</u> 38.08 N 20.20 E H = 05 18 26.7 h = 3 km MAG=4.3 D = 14.0 Az = 336.8 (USCGS)
29.	ePKP	09 28 18.5	<u>Fiji Islands</u> 17.78 S 178.60 W H = 09 09 40.4 h = 544 km MAG=4.7 D = 146.2 Az = 348.3 (USCGS)
29.	ei(PKP)	10 40 29	<u>Solomon Islands</u> 6.89 S 155.71 E H = 10 21 15.8 h = 80 km MAG=5.0 D = 127.1 Az = 332.1 (USCGS)

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Day	Phase	h m s	Remarks
29.	eP	11 50 21.5	<u>Aegean Sea</u> 39.5 N 26.0 E H = 11 46 42 h = 0 km MAG=4.5 D = 15.0 Az = 322 (ISC) PV:1.8s 40.8nm
29.	eP e	12 51 02 51 15	<u>Aegean Sea</u> 39.03 N 24.32 E H = 12 47 31.9 h = 18 km MAG=4.3 D = 14.7 Az = 326.4 (USCGS)
29.	eIP ePcP epP e	15 57 32.5 57 41 58 11 16 00 08	<u>Kamchatka</u> 52.80 N 157.48 E H = 15 46 18.2 h = 151 km MAG=5.4 D = 73.0 Az = 338.1 (USCGS) h = 162 km PV:1.4s 24.5nm PV3:1.4s 27.6nm MPV=4.7
29.	ePP LmH LmV	16 49 51 17 39.3 39	<u>Celebes</u> 2.88 S 119.61 E H = 16 31 34.4 h = 50 km MAG=5.4 (USCGS) D = 103.6 PPV:1.8s 51.1nm LmH:23.5s 2.0 $\mu$ m LmV:21s 1.6 $\mu$ m MPPV=5.8 MLH=5.6 MLV=5.5
29.	eP	17 20 49	<u>Southern Nevada, Nuclear Explosion</u> "Dorsal Fin" 37.18 N 116.21 W H = 17 08 30.0 D = 81.3 Az = 31 (USAEC) h = 25 km MAG=5.0 (ISC) PV:1.2s 10.2nm MPV=4.8
29.	ePKIKP	23 55 15 55 18 55 33	<u>New Hebrides Islands</u> 14.61 S 167.21 E H = 23 36 08.5 h = 183 km MAG=4.9 D = 139.0 Az = 336.4 (USCGS)

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Day	Phase	h m s	Remarks
1.	eP epP	22 16 34 16 40	<u>North Atlantic Ridge</u> 14.67 N 45.00 W H = 22 06 43.8 h = normal MAG=4.6 D = 57.8 Az = 38.9 (USCGS)
1.	eP esP	23 10 16 10 22.5	<u>North Atlantic Ridge</u> 14.63 N 45.06 W H = 23 00 26.0 h = 32 km MAG=4.7 D = 57.8 Az = 38.9 (USCGS) PV:1.7s 26.3nm MPV=5.0
2.	eP epP LmH LmV	03 26(27) 26 29 04 01.9 00.4	<u>Vancouver Island</u> 49.22 N 129.14 W H = 03 14 44.5 h = normal MAG=5.1 D = 75.0 Az = 24.6 (USCGS) LmH:16s 1.5 $\mu$ m LmV:18s 1.1 $\mu$ m MLH=5.4 MLV=5.2
2.	e e	06 55 45 56 55	<u>Yugoslavia</u> 45.1 N 21.1 E H = 06 53 03 (BCIS) D = 8.4
2.	eP epP LmH LmV	16 28 20 28 24 55.0 01.4	<u>Szechwan Province, China</u> 29.94 N 100.16 E H = 16 17 29.0 h = 24 km MAG=5.1 D = 66.6 Az = 316.1 (USCGS) LmH:18.5s 2.6 $\mu$ m LmV:16s 1.5 $\mu$ m MLH=5.5
2.	iP epP iS iSS eiSSSS LmH LmV	22 14 12 14 14.5 23 58 28 48 34 20 53.6 57.7	<u>Chargos Archipelago</u> 6.09 S 71.43 E H = 22 02 24.8 h = normal MAG=5.6 D = 76.3 Az = 325.5 (USCGS) PV2:1.2s 46.0nm SH:10s 1.5 $\mu$ m LmH:16s 1.2 $\mu$ m LmV:15s 1.1 $\mu$ m MPV2=5.5 MSH=6.0 MLH=5.3 MLV=5.3
3.	+ePKP e epP	03 52 06 52 15.5 55 27	<u>New Hebrides Islands</u> 19.36 S 169.46 E H = 03 32 57.1 h = 211 km MAG=5.0 D = 144.2 Az = 335.8 (USCGS) PV:1.3s 27.8nm PPV:1.6s 19.0nm

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Day	Phase	h m s	Remarks
3.	eP	09 39 43	<u>West Pakistan</u> 34.67 N 72.27 E H = 09 31 20.2 h = normal MAG=5.2 D = 46.1 Az = 309.6 (USCGS) PV:1.2s 15.3nm MPV=4.9
3.	ePKP2 epPKP2	12 22 32 24 30	<u>South of Fiji Islands</u> 23.52 S 179.90 E H = 12 03 29.3 h = 556 km MAG=4.9 D = 151.4 Az = 344.3 (USCGS) h = 516 km
3.	e ePP e iSKS C eSKKS C eISP C e C eSS LmH LmV	23 10 28 14 25 15 12 19 48 21 18 23 08 27 00 29 20 55.3 00 01.9	<u>Northern Celebes</u> 1.63 N 122.55 E H = 22 55 36.8 h = 435 km MAG=5.5 (USCGS) D = 111.9 LmH:20s 3.1/um LmV:16s 1.9/um MLH=5.9 MLV=5.8
4.	eP	17 10 44	<u>North of Ascension Island</u> 1.25 S 15.70 W H = 17 01 00.1 h = 25 km MAG=4.6 D = 56.7 Az = 20.5 (USCGS) PV:0.8s 9.4nm MPV=4.9
5.	+iP	00 33 56.5	<u>Unimak Island</u> 53.78 N 163.30 W H = 00 22 06.9 h = 2 km MAG=4.8 D = 75.9 Az = 3.3 (USCGS) PV:1.1s 33.7nm MPV=5.4
5.	+iP e epP esP LmH LmV	00 42 42.5 42 47.5 42 52 42 56.5 01 25.6 25.8	<u>Unimak Island</u> 53.83 N 163.30 W H = 00 30 57.4 h = normal MAG=4.9 D = 75.8 Az = 3.3 (USCGS) PV:1.6s 90.9nm LmH:16s 0.9/um LmV:16s 0.9/um MPV=5.7 MLH=5.2 MLV=5.2

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Day	Phase	h m s	Remarks
5.	ePKIKP iPKP2 e	14 56 07.5 56 09.5 56 16.5	<u>Tonga Islands</u> 18.15 S 174.68 W H = 14 36 41.5 h = 137 km MAG=5.1 D = 147.2 Az = 352.6 (USCGS) PV2:1.5s 80.5nm PV3:1.2s 51.0nm
5.	eP ePP eSKS C eS C ePS C eSS C LmH LmV	18 30 09 34 08 40 53 41 35 43 12 48 25 19 20.8 20.8	<u>Minando, Philippine Islands</u> 9.57 N 126.29 E H = 18 16 39.6 h = 61 km MAG=5.5 D = 97.7 Az = 324.3 (USCGS) PV:1.3s 16.7nm LmH:17.5s 6.1/um LmV:17s 4.9/um MPV=5.6 MLH=6.2 MLV=6.1
5.	eP	18 51 35	<u>Minando, Philippine Islands</u> 9.60 N 126.16 E H = 18 38 06.3 h = 60 km MAG=5.4 D = 97.6 Az = 324.2 (USCGS) PV:1.0s 14.2nm MPV=5.7
5.	ePKIKP ePKHKP e epPKP	21 40 21.5 40 25.5 40 32 40 49	<u>Loyalty Islands</u> 21.83 S 170.90 E H = 21 20 49.8 h = 86 km MAG=5.3 D = 147.0 Az = 335.6 (USCGS) PV:1.4s 30.7nm
6.	eP ePcP epP	00 24 49.5 24 56 25 03	<u>Honshu, Japan</u> 36.17 N 139.80 E H = 00 12 33.1 h = 53 km MAG=5.0 D = 82.3 Az = 329.7 (USCGS) PV:1.3s 13.9nm MPV=4.9
6.	eP	17 01 59	<u>Sea of Okhotsk</u> 48.35 N 146.31 E H = 16 51 10.8 h = 463 km MAG=4.8 D = 74.0 Az = 331.9 (USCGS) PV:0.9s 9.4nm MPV=4.8
7.	ePg eSn eiSg	00 23 24 23 59 24 25	<u>Switzerland</u> 46.39 N 7.48 E H = 00 21 43.5 h = 8.9 km D = 5.1 Az = 31 (ISC) e 23 31 e 24 02.5 e 24 22

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Moxa

Day	Phase	h m s	Remarks
7.	eP	03 07 03	<u>Near East Coast of Honshu, Japan</u> 35.61 N 139.95 E H = 02 54 43.4 h = 52 km MAG=4.6 D = 82.8 Az = 329.8 (USCGS) PV:1.0s 9.5nm MPV=5.0
7.	eP eS	07 26 01 30 00	<u>Jan Mayen Island</u> 71.71 N 3.05 W H = 07 21 06.5 h = 26 km MAG=4.6 D = 22.2 Az = 154.7 (USCGS) PV:1.3s 25.0nm MPV=4.5
7.	+iP ePL eS LmH LmV	07 26 14.5 24 14.5 30 14 36.7 36.8	<u>Jan Mayen Island</u> 71.51 N 4.02 W H = 07 21 17.7 h = 0 km MAG=5.1 D = 22.1 Az = 153 (ISC) PV:1.7s 219.0nm SH:11.5s 4.7/um LmH:14s 6.6/um LmV:14s 7.6/um MPV=5.3 MSH=5.8 MLH=5.2 MLV=5.4
7.	eP ei e	07 32 36 32 41 35 28	<u>Jan Mayen Island</u> 71.60 N 3.54 W H = 07 27 42.7 h = normal MAG=4.9 D = 22.1 Az = 153.8 (USCGS) PV:1.4s 122.8nm MPV=5.1
7.	eP	13 10 12	<u>Jan Mayen Island</u> 71.59 N 3.22 W H = 13 05 13.1 h = normal MAG=4.4 D = 22.1 Az = 154.3 (USCGS) PV:1.4s 30.7nm MPV=4.5
7.	ePKIKP ePP ePKS eScSP2 ePS eSPP eSS LmH LmV	13 41 12 42 53 44 49 52 52 52 56 54 18 14 00 08 35.0 35.1	<u>New Britain</u> 5.87 S 151.10 E H = 13 22 16.6 h = 39 km MAG=5.6 D = 124.1 Az = 330.1 (USCGS) PV:2.0s 73.9nm PPV:10s 1.7/um LmH:20.5s 14.0/um LmV:21.5s 14.4/um MPPV=6.5 MLH=6.6 MLV=6.6 e 43 00 e 43 04

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Moxa

Day	Phase	h m s	Remarks
7.	eP	14 37 52	<u>Crete</u> 35.24 N 25.68 E H = 14 33 41.2 h = 89 km MAG=4.4 D = 18.5 Az = 330.8 (USCGS)
8.	ePg e eSg ei	04 02 49 02 52 03 54 03 56	<u>France</u> 47.3 N 5.3 E H = 04 01 06 h = 15 km D = 5.3 Az = 49 (BCIS)
8.	ePKP	12 08 26	<u>New South Wales, Australia</u> 34.08 S 148.97 E H = 11 48 45.7 h = 6 km D = 145.0 Az = 311.3 PV:14s 15.3nm
8.	e(P)	17 28 32.5	<u>Ryukyu Islands</u> 29.84 N 130.23 E H = 17 15 54.9 h = 23 km MAG=4.9 D = 83.3 Az = 325.8 (USCGS)
9.	eP ePcP LmV LmH	00 58 00 58 07 01 37.7 42.7	<u>Nicobar Islands</u> 8.72 N 94.03 E H = 00 46 00.9 h = normal MAG=5.0 D = 78.5 Az = 319.9 (USCGS) PV2:1.3s 22.2nm LmH:15s 1.3/um LmV:18s 1.2/um MPV=5.0 MLH=5.4 MLV=5.3
9.	ePKP epPKP esPKP	03 38 16 38 39 38 52	<u>Solomon Islands</u> 5.56 S 154.01 E H = 03 19 23.9 h = 86 km MAG=5.7 (USCGS) D = 125.3 h = 85 km (pP) h = 96 km (sP)
9.	iPg iSg	11 22 53.0 23 14	<u>Czechoslovakia</u> 50.58 N 14.05 E Explosion of 28.4 Tons (PRU) D = 1.55 Az = 273
9.	e(P)	15 06 06	<u>Mascarene Islands</u> 18.00 S 65.76 E H = 14 53 20.6 h = normal MAG=4.7 D = 83.2 Az = 328.7 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
9.	eP	20 09 04.5	<u>North Atlantic Ridge</u> 20.85 N 45.88 W H = 19 59 44.3 h = normal MAG=4.6 D = 53.6 Az = 41.8 (USCGS)
9.	+ePKP e	22 55 07 55 15	<u>Fiji Islands</u> 21.71 S 178.85 W H = 22 36 20.2 h = 544 km MAG=4.5 D = 150.0 Az = 346.6 (USCGS) PV:1.1s 16.8nm
10.	eP e ePcP eS eLQ LmH LmV	04 01 21 01 26 01 32 11 12 22.0 41.0 46.1	<u>Andreanof Islands, Aleutian</u> 52.14 N 177.26 W H = 03 49 25.0 h = 7 km MAG=5.4 D = 77.3 Az = 354.2 (USCGS) PV2:1.3s 27.8nm LmH:17s 1.6/um LmV:17s 1.9/um MPV=5.2 MLH=5.4 MLV=5.5 e 02 32
10.	eP e e LmH LmV	06 51 44 52 55 53 16 57 59.5	<u>Aegean Sea</u> 39.08 N 24.27 E H = 06 48 16.4 h = normal MAG=4.4 D = 14.6 Az = 326.4 (USCGS) LmH:12.5s 1.7/um LmV:12s 1.0/um MLH=4.4 MLV=4.4
10.	eP e e eS LmH LmV	07 14 26 14 33 17 00 17 08 19.8 22.4	<u>Aegean Sea</u> 39.13 N 24.23 E H = 07 10 59.0 h = 0 km MAG=5.0 D = 14.6 Az = 326 (ISC) LmH:12s 16.6/um LmV:13s 9.3/um MLH=5.4 MLV=5.3
10.	ePKIKP e ePKHKP ePKP2 e	07 31 14 31 20 31 34 32 05 32 30	<u>Off East Coast of North Island, N. Z.</u> 36.28 S 179.40 E H = 07 11 22.1 h = 76 km MAG=5.7 D = 163.2 Az = 332.3 (USCGS)

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Day	Phase	h m s	Remarks
11.	iPKP esPKP isPKP2 ePP ePPP ePSPS C eLQ LmV	08 45 58.8 46 28 46 37.8 49 16 52 32 09 09.5 27.5 56	<u>Tonga Islands</u> 16.17 S 173.92 W H = 08 26 32.8 h = 112 km MAG=6.0 D = 145.3 Az = 353.8 (USCGS) PV1:2.4s 22.8nm (mod.Krumbach)
11.	eP LmH C	17 36 24	<u>Aegean Sea</u> 39.50 N 25.56 E H = 17 32 46.9 h = 0 km MAG=4.7 D = 14.8 Az = 323 (ISC) LmH(C):14.5s 1.2/um MLH=4.2
11.	epP	18 37 32	<u>Rat Islands, Aleutian</u> 52.05 N 178.17 E H = 18 25 13.3 h = 121 km MAG=5.2 D = 77.2 PV:1.0s 11.9nm
12.	eP ePcP	09 43 59 44 05	<u>Caribbean Sea</u> 13.00 N 72.57 W H = 09 32 07.4 h = 11 km MAG=5.3 D = 76.4 Az = 40.7 (USCGS)
12.	ePKP	12 15 47	<u>Samoa Region</u> 17.00 S 172.90 W H = 11 56 08.6 h = 33 km MAG=4.2 D = 146.2 Az = 355 (ISC) PV:2.0s 53.0nm
12.	ePKP esPKP LmH LmV	18 43 11 43 21.5 19 47.6 47.9	<u>Fiji Islands</u> 14.91 S 176.86 W H = 18 23 34.1 h = normal MAG=5.3 D = 143.7 Az = 350.9 (USCGS) e 43 26 e 43 29.5
12.	ePKP epPKP2	19 18 18 20 26	<u>South of Fiji Islands</u> 24.32 S 179.01 E H = 18 59 18.0 h = 472 km MAG=4.5 (USCGS) D = 152 h = 564 km

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Moxa

Day	Phase	h m s	Remarks
12.	ePg	19 59 22	<u>Northern Italy</u> 44.0 N 12.0 E H = 19 57 46 (BCIS) D = 6.7 Az = 358 (ISC)
	e	59 49	
	eSg	20 00 48	
	e	01 18	
12.	LmH	22 38.8	<u>New Britain Region</u> 6.14 S 150.30 E H = 21 24 27.1 h = 47 km MAG=4.8 (USCGS) D = 123.8 LmV:22s 0.7 $\mu$ m MLV=5.3
	LmV	38.7	
13.	eP	00 58 41	<u>Turkey</u> 39.48 N 40.4 E H = 00 53 42 h = 71 km D = 23.0 Az = 308 (ISC)
13.	ePKIKP	20 44 16.5	<u>Fiji Islands</u> 20.45 S 178.06 W H = 20 25 32.1 h = 520 km MAG=5.0 D = 148.9 Az = 348.0 (USCGS) h = 525 km PV:1.4s 24.6nm
	ePKHKP	44 21.5	
	ePKP2	44 27.5	
	epPKP	46 24	
13.	eP	22 45 54	<u>Central Kasakh SSR</u> 42.38 N 66.47 E H = 22 38 38.9 h = normal MAG=5.2 D = 37.9 Az = 302.0 (USCGS) PV:1.1s 16.8nm PPV:1.1s 14.4nm PcPV:1.1s 9.6nm MPV=4.7 MPPV=4.8 e 45 54 e 49 19 e 55 07.5 e 55 14.5
	epP	45 58	
	ePP	47 27	
	ePcP	48 09	
	LmV	23 03.3	
	LmH	03.5	
14.	-iP	02 15 52.2	<u>Central Kasakh SSR</u> 42.35 N 66.50 E H = 02 08 36.6 h = normal MAG=5.4 D = 37.9 Az = 302.0 (USCGS) PV:1.4s 42.9nm pPV:1.5s 60.4nm LmH:11.5s 1.4 $\mu$ m LmV:12.5s 1.7 $\mu$ m MPV=5.0 MLH=5.0 MLV=5.1 e 17 21 e 19 36 e 19 45.5
	epP	15 55.5	
	ePP	17 13.5	
	ePcP	18 03.5	
	LmV	33.3	
	LmH	33.5	

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Day	Phase	h m s	Remarks
14.	ePKP2	19 05 33	<u>Kermadec Islands</u> 27.87 S 176.76 W H = 18 45 11.6 h = 30 km MAG=5.2 D = 156.4 Az = 346.6 (USCGS) PV:1.4s 15.3nm LmH:22s 0.4 $\mu$ m MLH=5.1
	LmH	20 15.5	
15.	-iP	07 31 38	<u>Kurile Islands</u> 44.4 N 149.0 E H = 07 19 39.6 h = 53 km MAG=4.5 (USCGS) D = 78.44 Az = 334 (ISC) PV:1.4s 36.8nm MPV=5.3
15.	ePKP	09 54 45	<u>Loyalty Islands</u> 21.25 S 169.53 E H = 09 35 10.5 h = 50 km MAG=4.8 D = 145.9 Az = 334.7 (USCGS) PV:1.1s 12.0nm
15.	eP	22 58 48	<u>Yugoslavia</u> 43.79 N 20.51 E H = 22 56 34.6 h = normal MAG=4.2 D = 9.1 Az = 321.7 (USCGS)
	i	59 35	
	e	23 00 26	
	i	01 06	
17.	e	01 52	<u>North of Halmahera</u> 3.37 N 128.07 E H = 20 14 32.8 h = 62 km MAG=5.7 (USCGS) D = 103.8
	ePP	20 32 49	
18.	ePKHKP	07 41 57.5	<u>South of Fiji Islands</u> 23.25 S 179.83 W H = 07 23 02.6 h = 522 km MAG=5.0 D = 151.2 Az = 344.8 (USCGS) h = 595 km (pPKHKP) (pPKIKP)V:1.5s 20.1nm pPKHKPV:1.6s 60.6nm pPKP2V:2.0s 86.0nm
	ePKP2	42 08	
	e(pPKIKP)	44 06.5	
	ipPKHKP	44 16.5	
	e	44 24	
19.	ePKP	01 55 29.5	<u>Tonga Islands</u> 17.40 S 172.80 W H = 01 35 49.2 h = normal MAG=5.2 D = 146.6 Az = 354.9 (USCGS) PV1:1.1s 19.2nm PV2:2.0s 159.0nm LmH:16s 1.2 $\mu$ m LmV:16s 1.5 $\mu$ m MLH=5.7
	ei	55 33	
	e	59 03	
	LmV	03 10.4	
	LmH	11.5	

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Day	Phase	h m s	Remarks
19.	ePKIKP e e e	19 37 39.5 38 02.5 38 20 38 38	<u>South of Fiji Islands</u> 26.42 S 177.42 W H = 19 17 46.8 h = 23 km MAG=5.1 (USCGS) D = 154.9
20.	eP e LmH LmV	04 23 23.5 23 26 58.3 05 06.5	<u>Ryukyu Islands</u> 27.61 N 129.79 E H = 04 10 48.9 h = normal MAG=4.8 D = 84.9 Az = 325.7 (USCGS) PV:1.2s 10.2nm MPV=4.9
20.	eP LmH LmV	08 02 47 22.5 22.5	<u>Kirgiz-Sinkiang Border Region</u> 40.95 N 75.05 E H = 07 54 40.4 h = 60 km MAG=4.6 D = 44.0 Az = 305.0 (USCGS) PV:1.2s 12.8nm LmH:11s 2.6 $\mu$ m LmV:13.5s 3.0 $\mu$ m MPV=4.5 MLH=5.4 MLV=5.5
20.	eP	12 25 01.5	<u>Rat Islands, Aleutian</u> 51.45 N 177.65 E H = 12 13 08.4 h = 45 km MAG=5.1 D = 77.6 Az = 350.9 (USCGS)
20.	ePKP	13 13 36.5	<u>Tonga Islands</u> 15.14 S 173.40 W H = 12 53 59.8 h = normal MAG=4.8 D = 144.4 Az = 354.5 (USCGS) PV:1.5s 13.4nm
21.	eP e LmH LmV	16 12 58 14 43.5 17.8 18.7	<u>Aegean Sea</u> 39.71 N 25.59 E H = 16 09 22.1 h = 19 km MAG=4.3 D = 14.7 Az = 322.7 (USCGS) LmH:16s 1.6 $\mu$ m LmV:12s 1.0 $\mu$ m MLH=4.3 MLV=4.4
22.	ePP LmH LmV	09 33 32.5 10 21.3 21.8	<u>Mariana Islands</u> 13.13 N 145.54 E H = 09 15 12.3 h = 50 km MAG=5.4 D = 104.8 LmH:18s 0.9 $\mu$ m LmV:17.5s 1.5 $\mu$ m MLH=5.4 MLV=5.6

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Moxa

Day	Phase	h m s	Remarks
22.	iP ePP	15 12 17 15 21.5	<u>Southern Nevada, Nuclear Explosion "STINGER"</u> 37°19'57"N 116°18'38"W H = 15 00 00.0 D = 81.16 Az = 31 (USAEC) MAG=5.6 h = 22 km (ISC) PV:1.4s 49.1nm MPV=5.4
22.	eP i e eS LmH LmV	20 47 06.5 47 13.5 47 23 57 25 21 28.1 28.4	<u>Off East Coast of Honshu, Japan</u> 37.39 N 142.40 E H = 20 34 45.3 h = 18 km MAG=5.3 D = 82.2 Az = 330.9 (USCGS) PV:2.0s 86.0nm LmH:14s 1.6 $\mu$ m LmV:14.5s 1.9 $\mu$ m MPV=5.5 MLH=5.5 MLV=5.6
23.	eP e	17 20 20.5 20 22	<u>Aegean Sea</u> 39.78 N 25.64 E H = 17 16 35.8 h = 0 km MAG=4.6 D = 14.66 Az = 322 (ISC) PV2:1.5s 13.4nm
23.	eP e LmH LmV	17 29 19 29 28 34.3 35.9	<u>Aegean Sea</u> 39.77 N 25.49 E H = 17 25 53.2 h = normal MAG=4.6 D = 14.6 Az = 322.7 (USCGS) LmH:15.5s 11.3 $\mu$ m LmV:12.5s 6.6 $\mu$ m MLH=5.1 MLV=5.2
24.	eP eS e LmH LmV	07 22 53 31 10 31 15 47.0 48.5	<u>Central Mid-Atlantic Ridge</u> 1.25 S 24.20 W H = 07 12 47.4 h = normal MAG=5.4 D = 60.0 Az = 25.5 (USCGS) LmV:1.8s 1.6 $\mu$ m MLV=5.3
24.	eP LmH LmV	16 11 12 50.2 52.2	<u>Kyushu, Japan</u> 32.11 N 130.60 E H = 15 58 49.0 h = 4 km MAG=4.9 D = 81.6 Az = 325.7 (USCGS) LmH:14s 3.5 $\mu$ m LmV:14s 3.0 $\mu$ m MLH=5.9 MLV=5.8

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Moxa

Day	Phase	h m s	Remarks
24.	LmH LmV	18 03.6 03.9	<u>Nicaragua</u> 12.48 N 86.45 W H = 17 13 20.0 h = 79 km MAG=5.1 (USCGS) D = 85.5 LmH:17s 0.7 $\mu$ m LmV:18s 1.2 $\mu$ m MLH=5.1 MLV=5.4
25.	+eiPKP e	03 16 12.5 16 34	<u>Loyalty Islands</u> 20.04 S 168.88 E H = 02 56 37.1 h = 21 km MAG=5.0 D = 144.6 Az = 334.9 (USCGS) PV:1.2s 63.7nm
26.	eP epP ePP epPP eSP iPKKP esSP eSS esSS LmH LmV	00 55 06 57 05.5 59 24.5 01 01 20 07 54 10 51.5 11 28 13 40 16 48 36 46.7	<u>Bali Sea</u> 6.58 S 116.09 E H = 00 41 56.9 h = 520 km MAG=5.9 D = 104.2 Az = 320.5 (USCGS) PV:1.8s 25.5nm MPV=5.7 e 57 10.5 e 58 14 ei 01 37 e 11 12.5 e(C) 24 00 e 24 37
26.	eP	04 49 22.5	<u>Southern Iran</u> 29.64 N 51.44 E H = 04 42 19.6 h = normal MAG=4.9 D = 36.4 Az = 316.6 (USCGS)
26.	eP epP LmH	10 54 34 54 46 11 39.8	<u>South of Honshu, Japan</u> 32.58 N 141.63 E H = 10 41 56.6 h = 46 km MAG=4.7 D = 86.1 Az = 330.7 (USCGS) h = 44 km PV:1.2s 17.9nm LmH:16s 0.3 $\mu$ m MPV=5.1 MLH=4.8
26.	ePKHKP ePKP2	14 53 35.5 53 42	<u>Fiji Islands</u> 20.55 S 178.68 W H = 14 34 53.7 h = 603 km MAG=4.5 D = 148.9 Az = 347.3 (USCGS) PV:1.2s 20.4nm

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Day	Phase	h m s	Remarks
26.	eP	19 42 47	<u>Jordan-Syria</u> 34.19 N 35.53 E H = 19 37 33.7 h = normal MAG=4.9 D = 24.0 Az = 320.6 (USCGS) PV:1.3s 80.5nm MPV=5.4
26.	eP epP e LmH LmV	19 54 15 54 36 54 43 20 34.8 45.3	<u>Mindanao, Philippine Islands</u> 8.10 N 126.27 E H = 19 40 42.1 h = 83 km MAG=5.4 D = 98.9 Az = 324.1 (USCGS) h = 81 km PV:1.3s 30.6nm LmH:21s 0.9 $\mu$ m MPV=5.8 MLH=5.1
27.	eP LmH	19 05 26.5 41.0	<u>Eastern Sea of Japan</u> 40.88 N 137.97 E H = 18 53 31.5 h = 27 km MAG=5.4 D = 77.5 Az = 328.3 (USCGS) PV:1.2s 15.3nm LmH:14s 0.5 $\mu$ m MPV=5.0 MLH=5.0
27.	ePP e ePS eSS LmH LmV	22 56 07 56 14 23 05 43 12 00 40.2 46.4	<u>West New Guinea Region</u> 4.29 S 133.32 E H = 22 36 43.3 h = normal MAG=5.5 (USCGS) D = 113 LmH:18s 3.5 $\mu$ m LmV:17s 2.2 $\mu$ m MLH=6.0 MLV=5.8
28.	eP epP esP eSKKS eS LmH	01 20 11 20 40 20 54 30 30 30 35 50.3	<u>Mexico-Guatemala Border Region</u> 15.07 N 92.07 W H = 01 07 37.6 h = 111 km MAG=5.2 D = 86.9 Az = 38.3 (USCGS) PV:1.8s 34.0nm LmH:43.5s 1.8 $\mu$ m MPV=5.0
28.	eP i ei LmH LmV	07 43 23 43 32 46 22 48.7 50.2	<u>Ionian Sea</u> 37.90 N 20.88 E H = 07 39 57.1 h = 6 km MAG=5.4 D = 14.4 Az = 335.6 (USCGS) LmH:15.5s 33.5 $\mu$ m LmV:14s 24.3 $\mu$ m MLH=5.5 i 46 45 ei 47 08

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Moxa

Day	Phase	h m s	Remarks
28.	eP i i i LmH LmV	16 40 47.5 40 50 40 54 44 49 45.4 46.9	<u>Greece-Albania Border Region</u> 39.57 N 20.43 E H = 16 37 46.8 h = 18 km MAG=4.8 D = 12.8 Az = 333.7 (USCGS) LmH:8.0s 8.6 $\mu$ m LmV:10s 4.0 $\mu$ m MLH=5.2
29.	eP e(S) e	06 31 21.5 33 03.5 33 41	<u>Yugoslavia</u> 43.54 N 20.85 E H = 06 29 05 h = 17 km D = 9.5 Az = 322 (ISC)
29.	eP	14 42 15	<u>Off East Coast of Honshu, Japan</u> 40.28 N 144.72 E H = 14 30 05.1 h = 41 km MAG=4.8 D = 80.6 Az = 331.9 (USCGS) PV:1.2s 15.3nm MPV=4.9
29.	LmH C	19 52.7	<u>Near South Coast of Southern Honshu</u> 34.08 N 135.10 E H = 19 04 30.6 h = 6 km MAG=4.7 (USCGS) D = 80.3 LmH(C):13s 0.4 $\mu$ m MLH(C)=4.9
30.	ePKP	03 16 17	<u>Fiji Islands</u> 18.02 S 178.18 N H = 02 57 44.0 h = 620 km MAG=4.2 D = 146.5 Az = 348.7 (USCGS)
30.	eP	11 28 26	<u>Dodecanese Islands</u> 36.7 N 27.7 E H = 11 24 18 h = 64 km (ISC) D = 18.2
30.	ePKHKP	19 38 33.5	<u>Tonga Islands</u> 21.15 S 174.22 W H = 19 18 47.5 h = 70 km MAG=4.6 D = 150.2 Az = 352.5 (USCGS)
31.	eP	03 28 28	<u>Andaman Islands</u> 12.9 N 94.0 E H = 03 16 37 h = 33 km MAG=5.0 D = 75.33 Az = 319 (ISC)

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Moxa

Day	Phase	h m s	Remarks
31.	iP	08 32 54	<u>Samar, Philippine Islands</u> 11.37 N 125.28 E H = 08 19 35.6 h = 71 km MAG=5.3 D = 95.7 Az = 324.1 (USCGS) PV:1.2s 15.9nm (mod.Krumbach) MPV=5.5
31.	iP	17 45 27	<u>Southern Alaska</u> 59.60 N 153.26 W H = 17 34 25.8 h = 79 km MAG=4.5 D = 69.4 Az = 10.2 (USCGS) PV:1.0s 13.0nm (mod.Krumbach) MPV=5.0

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Moxa

Day	Phase	h m s	Remarks
1.	+1P	00 54 22	<u>Shikoku, Japan</u> 32.50 N 132.21 E H = 00 42 04.2 h = 33 km MAG=6.1 D = 82.0 Az = 326.4 (USCGS) PV3:2.6s 4430.0nm LmH:14.6s 1560/um (Wiechert) MPV=7.1 (MLH=8.5) i 05 25 e 10 28
	+1	54 26	
	+1	54 30	
	ePP	57 35.5	
	ePPPP	01 01 00	
	iScS	04 48	
	eSS	10 12	
	ePKPPKP	21 14	
	LmV	35.5	
	LmH	36.0	
	1.	+1P	
ePcP		25 38	
ePP		28 48	
eSKS		35 50	
iSPP		37 00	
eSS		41 05	
LmH		08 06.6	
LmV		07.0	
1.	eP	11 43 01	<u>Crete</u> 34.26 N 26.26 E H = 11 38 32.4 h = 33 km MAG=4.5 D = 19.6 Az = 331.3 (USCGS)
	e	46 07	
	e	46 34.5	
1.	eP	16 34 36.5	<u>Ryukyu Islands</u> 26.94 N 126.95 E H = 16 22 06.9 h = normal MAG=5.0 D = 84.0 Az = 324.6 (USCGS) PV:2.0s 59.3nm (mod.Krumb.) MPV=5.5
3.	eP	16 36 36.5	<u>Near Islands, Aleutian</u> 51.73 N 174.22 E H = 16 24 45.7 h = 38 km MAG=5.3 D = 76.9 Az = 348.7 (USCGS) PV:1.2s 35.7nm LmH:15s 1.2/um LmV:14s 1.2/um MPV=5.3 MLH=5.3 MLV=5.4
	ePcP	36 46	
	ePS	47 08	
	LmH	17 18.2	
	LmV	22.0	

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Moxa

Day	Phase	h m s	Remarks
4.	eP	01 53 11.5	<u>West Pakistan</u> 24.61 N 66.02 E H = 01 44 26.4 h = normal MAG=5.0 D = 49.0 Az = 316.7 (USCGS) LmH(C):18s 1.5/um LmV:13s 0.7/um MLH=5.0 MLV=4.9
	epP	53 23	
	e	53 45	
	LmH	02 19.0	
	LmV	22.7	
5.	eP	11 52 13.5	<u>Central Alaska</u> 64.17 N 148.91 W H = 11 41 49.0 h = 128 km MAG=4.1 D = 64.5 Az = 13.6 (USCGS) PV:0.6s 11.9nm MPV=5.3
5.	LmH	16 03.0	<u>Aegean Sea</u> 39.67 N 25.54 E H = 15 54 32.2 h = 18 km MAG=4.5 (USCGS) D = 14.7 LmH:15s 1.6/um LmV:13s 0.8/um MLH=4.3 MLV=4.2
	LmV	03.8	
5.	eP	17 04 43	<u>Kurile Islands</u> 47.00 N 154.11 E H = 16 52 51.1 h = 50 km MAG=4.2 D = 77.5 Az = 336.6 (USCGS) PV:1.0s 19.0nm MPV=5.2
5.	ePKHKP	18 09 39	<u>Fiji Islands</u> 20.30 S 178.18 W H = 17 50 51.3 h = 540 km MAG=4.2 D = 148.7 Az = 347.9 (USCGS)
5.	eP	19 42 47	<u>Kodiak Islands</u> 56.84 N 151.45 W H = 19 31 22.7 h = 14 km MAG=4.9 D = 72.0 Az = 11.2 (USCGS) PV:1.2s 12.8nm MPV=4.9
	isP	42 56	
	eIPcP	43 04.5	
6.	ePKP	17 16 23.5	<u>Tonga Islands</u> 16.19 S 173.84 W H = 16 56 55.0 h = 96 km MAG=4.4 D = 145.4 Az = 359.9 (USCGS) PV:1.4s 15.3nm
	ePKP2	16 28.5	
6.	eP	22 59 59	<u>Rat Islands, Aleutian</u> 51.44 N 176.62 E H = 22 48 06.6 h = 43 km MAG=4.7
	ePcP	23 00 05	

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Moxa

Day	Phase	h m s	Remarks
cont.			
6.	epP esP	23 00 09.5 00 18	D = 77.5 Az = 350.3 (USCGS) PV:1.0s 11.8nm MPV=5.0
7.	ePKP LmH C LmV C	01 51 34 02 45.0 45.0	<u>Fiji Islands</u> 16.91 S 177.20 W H = 01 31 57.0 h = normal MAG=5.0 D = 145.6 Az = 350.1 (USCGS) LmH(C):2s 0.3 $\mu$ m LmV(C):32s 0.3 $\mu$ m MLH=4.8
7.	eP LmH LmV	02 59 53 03 51.5 52.3	<u>Near East Coast of Honshu, Japan</u> 38.48 N 141.79 E H = 02 47 40.2 h = 33 km MAG=4.6 D = 81.1 Az = 330.5 (USCGS) LmH:12s 1.0 $\mu$ m LmV:12s 0.7 $\mu$ m MLH=5.4 MLV=5.3
7.	eP ePcP epP ePP	04 52 12.5 52 17.5 52 27 55 08	<u>Rat Islands, Aleutian</u> 51.52 N 176.52 E H = 04 40 19.3 h = normal MAG=5.3 D = 77.4 Az = 350.2 (USCGS) PV:1.6s 60.5nm MPV=5.5
7.	-eIP epP esP ePcP LmV LmH	05 22 43.5 22 52 22 57 25 37 33.9 37.0	<u>North of Svalbard</u> 81.46 N 3.90 W H = 05 16 24.9 h = normal MAG=5.3 D = 31.3 Az = 160.9 (USCGS) PV:1.3s 111.0nm LmH:16s 1.8 $\mu$ m LmV:17s 2.0 $\mu$ m MPV=5.6 MLH=4.8 MLV=4.9
7.	e eSg e	19 17(34) 17 43 17 47	<u>France</u> 46.2 N 1.3 E H = 19 13 23 (BCIS) D = 8.2
8.	ePKP ePKHKP ePKP2	02 33 24 33 27 33 37	<u>South of Fiji Islands</u> 23.52 S 179.83 E H = 02 14 34.0 h = 550 km MAG=4.7 D = 151.4 Az = 344.2 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
8.	eP	08 31 22	<u>Albania</u> 41.49 N 20.26 E H = 08 28 40.7 h = 0 km MAG=4.2 D = 10.95 Az = 330 (ISC)
8.	LmH	09 07.5	<u>Aegean Sea</u> 39.49 N 25.77 E H = 08 59 10.5 h = normal MAG=4.3 (USCGS) D = 14.9 LmH:16s 0.3 $\mu$ m MLH=3.5
8.	ePKP esPKP	10 54 40 54 47	<u>Tonga Islands</u> 17.47 S 173.14 W H = 10 34 56.8 h = normal MAG=4.2 D = 146.7 Az = 354.5 (USCGS)
9.	ePKP	01 22 01	<u>New Hebrides Islands</u> 19.28 S 169.38 E H = 01 02 43.6 h = 144 km MAG=4.5 D = 144.07 Az = 335.8 (USCGS)
9.	+eP +ipP ePcP iP max ePP eiS iScS eSS LmH LmV	02 41 34.5 41 37 41 38 41 38.5 44 54 52 05 52 13 57 25 20.9 21.1	<u>Southern California</u> 33.15 N 116.13 W H = 02 28 58.9 h = 20 km MAG=6.1 D = 84.7 Az = 30.4 (USCGS) PV:1.5s 60.4nm PV max:2.5s 1260.0nm SH:14.5s 16.5 $\mu$ m LmH:15.5s 133.0 $\mu$ m LmV:15.5s 153.0 $\mu$ m MPV=5.5 MPV max=6.6 MSH=6.9 MLH=7.4 MLV=7.5
9.	eP ePcP e	03 16 31 16 33 16 36	<u>Southern California</u> 33.23 N 116.04 W H = 03 03 55.4 h = 15 km MAG=5.1 D = 84.6 Az = 30.4 (USCGS) PV2:1.7s 21.9nm MPV=5.1
9.	-ePKIKP -eiPKHKP e	11 46 06.5 46 09.8 46 22	<u>Fiji Islands</u> 17.83 S 178.22 W H = 11 27 39.0 h = 650 km MAG=5.2 D = 146.3 Az = 348.7 (USCGS) PV1:1.3s 38.9nm PV2:1.3s 122.0nm
9.	e(Pg) e(Sg)	19 09 40 10 59	<u>Northern Italy</u> 44.7 N 10.4 E H = 19 07 46 (BCIS) D = 6.0

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Day	Phase	h m s	Remarks
10.	ePKHKP iPKP2 eSKSP C e C LmH C LmV C	18 51 49 50 50 19 05 33 20 39 40.5 47	<u>Loyalty Islands</u> 22.63 S 171.48 E H = 18 32 09.6 h = 60 km MAG=5.1 D = 147.9 Az = 335.6 (USCGS) PV2:0.8s 18.9nm LmH(C):38s 0.6 $\mu$ m LmV:30s 0.4 $\mu$ m MLH=5.0
11.	eP	06 57 07	<u>E. Russia - N.E. China Border Region</u> 42.49 N 130.96 E H = 06 46 27.4 h = 511 km MAG=5.0 D = 73.2 Az = 324.4 (USCGS) PV:0.8s 7.1nm MPV=4.9
11.	ePg e(Sg) i	17 22 31 23 17 23 22.5	<u>Switzerland</u> 47.0 N 9.6 E H = 17 21 17 h = 0 km D = 3.91 Az = 19 (ISC)
12.	ePKHKP ePKP2	09 35 41 35 43	<u>Fiji Islands</u> 18.14 S 178.10 W H = 06 16 51.9 h = 471 km MAG=4.2 D = 146.7 Az = 348.7 (USCGS) PV1:0.9s 18.9nm PV2:0.8s 23.6nm
12.	ePKIKP ePKHKP ePKP2	16 54 30 54 34 54 40	<u>Fiji Islands</u> 20.32 S 177.87 W H = 16 35 38.3 h = 459 km MAG=4.6 D = 148.8 Az = 348.3 (USCGS) PV:0.6s 33.4nm
12.	ePKP	18 38 26	<u>Fiji Islands</u> 19.79 S 175.95 W H = 18 18 56.7 h = 168 km MAG=4.2 D = 148.6 Az = 350.7 (USCGS)
13.	eP	00 51 11	<u>Southern Sinkiang Province, China</u> 35.8 N 82.2 E H = 00 42 05 (AN USSR) D = 51.6
13.	eP eS ePPS C	01 26 30 35 31 36 10	<u>Puerto Rico</u> 19.01 N 66.85 W H = 01 15 32.3 h = 51 km MAG=5.1 D = 68.3 Az = 42.2 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
13.	eSS LmH LmV	01 40 00 52.5 52.5	LmH:20s 1.3 $\mu$ m LmV:20s 1.3 $\mu$ m MLH=5.2 MLV=5.2
13.	eP	18 42 06	<u>Mindanao, Philippine Islands</u> 7.28 N 126.63 E H = 18 28 34.4 h = 123 km MAG=5.0 D = 99.8 Az = 324.2 (USCGS) PV:1.4s 12.3nm MPV=5.3
14.	+iP ePP eS C LmH LmV	08 49 46.7 52 58 09 00 15 25.2 30.4	<u>Off East Coast of Honshu, Japan</u> 33.39 N 141.40 E H = 08 37 12.2 h = 44 km MAG=5.4 D = 85.3 Az = 330.6 (USCGS) PV:1.3s 38.9nm SH(C):12.5 0.7 $\mu$ m LmH:18s 1.3 $\mu$ m LmV:17s 1.2 $\mu$ m MPV=5.5 MSH(C)=5.6 MLH=5.4 MLV=5.4
14.	eP eiPcP eiSP ePP eSKKS C LmH LmV	13 17 42 17 46 17 53.5 21 03.5 28 05 53.3 14 03.6	<u>Off East Coast of Honshu, Japan</u> 33.43 N 141.42 E H = 13 05 08.0 h = 41 km MAG=5.4 D = 85.3 Az = 330.6 (USCGS) PV:2.0s 72.9nm SH(C):15s 0.9 $\mu$ m LmH:18.5s 1.6 $\mu$ m LmV:15s 2.2 $\mu$ m MPV=5.6 MSH=5.7 MLH=5.4 MLV=5.7 e 20 53 e 21 13
14.	eP esP	14 36 56 37 56	<u>Northern Columbia</u> 6.82 N 73.01 W H = 14 24 55.3 h = 161 km MAG=5.0 D = 81.4 Az = 39.9 (USCGS)
14.	ePKIKP eiPKP2 e e	15 05 52.3 05 54 06 07.5 06 22	<u>Fiji Islands</u> 17.53 S 178.77 W H = 14 47 14.9 h = 550 km MAG=4.6 D = 145.9 Az = 348.2 (USCGS) PV2:1.3s 27.8nm

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Moxa

Day	Phase	h m s	Remarks
15.	e(SKKS) C	08 12 00	<u>Near Coast of Northern Peru</u> 5.77 S 80.95 W H = 07 47 40.3 h = 35 km MAG=4.9 (USCGS) D = 96.2 LmH(C):72s 1.0 $\mu$ m LmV:18s 0.5 $\mu$ m MLH(C)=4.7 MLV=5.1
	eS C	12 28	
	eSS C	18 50	
	LmH C	29.0	
	LmV C	50.4	
15.	eP	17 36 35	<u>Near East Coast of Kamchatka</u> 53.47 N 159.71 E H = 17 25 07.8 h = normal MAG=4.7 D = 72.8 Az = 339.4 (USCGS)
16.	+eP	14 10 13	<u>Chagos Archipelago Region</u> 5.06 S 68.40 E H = 13 58 40.3 h = normal MAG=5.2 D = 73.7 Az = 362.3 (USCGS) PV:1.4s 15.3nm MPV=4.8
17.	eP	09 16 27	<u>Straits of Gibraltar</u> 35.24 N 3.73 W H = 09 12 04.3 h = 16 km MAG=5.0 D = 19.0 Az = 31.2 (USCGS) PV:1.4s 30.7nm LmH:12.5s 2.8 $\mu$ m LmV:12s 2.2 $\mu$ m MPV=4.3 MLH=4.8 MLV=4.8
	e		
	e		
	eS C		
	e		
	LmH		
LmV	24.6		
17.	eP	09 58 44	<u>Afghanistan - USSR Border Region</u> 36.26 N 71.44 E H = 09 50 39.1 h = 94 km MAG=4.8 D = 44.5 Az = 308.3 (USCGS)
17.	eP	12 02 50	<u>Chagos Archipelago Region</u> 5.12 S 68.39 E H = 11 51 17.76 h = normal MAG=5.0 D = 73.79 Az = 326.3 (USCGS) PV:0.8s 9.4nm MPV=4.9
17.	-iP	13 19 28.3	<u>Afghanistan - USSR Border Region</u> 36.38 N 71.46 E H = 13 11 26.2 h = 113 km MAG=5.2 D = 44.5 Az = 308.2 (USCGS) PV:1.0s 38.0nm MPV=5.3
	e	22 03.5	

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Moxa

Day	Phase	h m s	Remarks
18.	eP	03 10 40.5	<u>Albania</u> 41.27 N 20.33 E H = 03 08 02.8 h = normal MAG=4.4 D = 11.2 Az = 330.1 (USCGS) LmH(C):15.5s 0.9 $\mu$ m MLH(C)=3.8
	e	10 45	
	LmH C	14.4	
18.	LmV C	15.4	<u>South of Fiji Islands</u> 25.75 S 179.53 W H = 04 34 40.6 h = 379 km MAG=4.7 D = 153.7 Az = 343.9 (USCGS)
	ePKHKP	04 53(55)	
18.	ePKP2	54 10	<u>South of Fiji Islands</u> 25.55 S 177.94 W H = 09 58 53.3 h = 230 km MAG=5.1 D = 153.9 Az = 346.1 (USCGS) PV1:1.1s 9.6nm PV2:1.1s 12.0nm
	-ePKHKP	10 18 27	
18.	ePKP2	18 40.5	<u>Northern Italy</u> 44.16 N 8.31 E H = 19 38 15.4 h = 7 km MAG=4.1 D = 6.9 Az = 17.9 (USCGS) LmH:10.5s 1.4 $\mu$ m LmV:13s 0.7 $\mu$ m MLH=3.8
	epPKHKP	19 28	
18.	ePn	19 40 00	<u>South Atlantik Ridge</u> 42.57 S 16.04 W H = 09 04 27.3 h = normal MAG=5.6 (USCGS) D = 95.8 LmH:20s 1.2 $\mu$ m LmV:18s 0.9 $\mu$ m MLH=5.4 MLV=5.3
	ePg	40 32	
	eiSn	41 15	
	eiSg	41 59	
	LmH	42.5	
19.	LmV	43.4	<u>South Atlantik Ridge</u> 42.57 S 16.04 W H = 09 04 27.3 h = normal MAG=5.6 (USCGS) D = 95.8 LmH:20s 1.2 $\mu$ m LmV:18s 0.9 $\mu$ m MLH=5.4 MLV=5.3
	ePP	09 21 36	
	eS	29 20	
19.	ePS	30 30	<u>Azores Islands</u> 38.22 N 26.63 W H = 12 33 51.5 h = normal MAG=4.6 D = 29.7 Az = 52.8 LmH:20s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m MLH=4.0 MLV=4.2
	eSS C	35 40	
	LmV	58.7	
19.	LmH	59	<u>Azores Islands</u> 38.29 N 26.61 W H = 09 44 08.6 h = normal MAG=4.9 D = 29.6 Az = 52.9 (USCGS) PV:1.8s 35.8nm MPV=4.9
	eP	12 29 56	
	LmH	40.5	
19.	LmV	40.5	<u>Azores Islands</u> 38.22 N 26.63 W H = 12 33 51.5 h = normal MAG=4.6 D = 29.7 Az = 52.8 LmH:20s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m MLH=4.0 MLV=4.2
	eP	09 50 12.5	

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Day	Phase	h m s	Remarks
20.	ePg e eSg	10 05 22 05 38 05 39	<u>Explosion Böhmschbruck/GFR</u> 49°34'11" N 12°21'36 E H = 10 05 00.41 yield ca. 6 t D = 1.3
20.	eP ePP eS esS LmH LmV	10 24 06.5 24 55 29 00 29 06 35.4 35.4	<u>Azores Islands</u> 38.27 N 26.61 W H = 10 18 01.1 h = normal MAG=5.1 D = 29.6 Az = 52.9 (USCGS) SH:11.5s 0.8/um MSH=5.1 LmH:15.8s 5.1/um LmV:16.8s 6.7/um MLH=5.2 MLV=5.5
20.	-iPKP e iPKP2 ePP C ePPP C eSKKS C eSKSP C eSS C eSSS C LmH LmV	12 44 43.5 44 45.5 44 46 48 00 51 28 54 54 58 12 13 07 00 12 25 43.2 45.2	<u>Samoa Islands</u> 15.68 S 172.64 W H = 12 25 10.1 h = 30 km MAG=5.7 D = 145.0 Az = 355.3 (USCGS) PV1:0.9s 28.3nm PV2:1.2s 89.2nm LmH:23.8s 4.3/um LmV:21s 3.4/um MLH=6.1 MLV=6.1
20.	eP ePoP	14 05 33.5 06 15	<u>Tanganyika</u> 7.72 S 38.75 E H = 13 55 09.45 h = normal MAG=4.5 D = 62.71 Az = 340.9 (USCGS)
20.	eP	20 02 02	<u>South Atlantic Ridge</u> 19.88 S 11.84 W H = 19 50 30.9 h = normal MAG=4.9 D = 73.2 Az = 15.4 (USCGS)
20.	ePKHKP	23 00 04	<u>Fiji Islands</u> 19.55 S 177.63 W H = 22 41 18.49 h = 536 km MAG=4.2 D = 148.12 Az = 348.8 (USCGS) PV:1.6s 11.4nm

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Moxa

Day	Phase	h m s	Remarks
21.	ePKP2	06 30 50	<u>Kermadec Islands</u> 31.64 S 177.67 W H = 06 10 19.1 h = 57 km MAG=4.7 (USCGS) D = 159.9 PV:1.2s 10.2nm (mod.Krumbach)
21.	+eiP eipP ePP ePPP iSKS ePPS C eSSS C LmH LmV	08 46 18 46 28 49 24 51 16 56 28 57 36 09 04 45 24.6 28.0	<u>Off East Coast of Honshu, Japan</u> 38.62 N 143.01 E H = 08 34 03.5 h = 42 km MAG=5.3 D = 81.4 Az = 331.1 (USCGS) PV:2.0s 200.0nm LmH:15s 8.7/um LmV:15s 8.7/um MPV:5.8 MLH=6.2 MLV=6.3 1 46 47
21.	ePKP2	17 03 53	<u>Macquarie Island</u> 56.42 S 158.02 E H = 16 43 17.2 h = 27 km MAG=5.8 D = 159.4 Az = 268.0 (USCGS)
21.	eP e LmH LmV	17 54 11 54 57 18 33.0 33.0	<u>Off East Coast of Honshu, Japan</u> 38.65 N 143.15 E H = 17 41 55.5 h = normal MAG=4.0 D = 81.4 Az = 331.2 (USCGS) LmH:17s 0.7/um LmV:18s 0.7/um MLH=5.1 MLV=5.1
21.	+eiP i e	21 12 20.5 12 23 12 26	<u>Tyrrhenian Sea</u> 39.77 N 14.86 E H = 21 09 46.98 h = 311 km MAG=4.3 D = 11.12 Az = 349.2 (USCGS) PV1:0.8s 42.4nm PV2:1.2s 86.6nm
23.	eP e epP esP	06 53 13 53 23.5 53 39 53 55	<u>Afghanistan - USSR Border Region</u> 36.33 N 71.22 E H = 06 45 11.5 h = 114 km MAG=5.2 D = 44.4 Az = 308.2 (USCGS) PV:1.0s 11.9nm MPV=4.7
23.	eP e eS	12 47 27 47 33.5 53 35	<u>Southern Iran</u> 27.68 N 59.69 E H = 12 39 47.29 h = 52 km MAG=5.1 D = 40.97 Az = 316.6 (USCGS)

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Day	Phase	h m s	Remarks
cont. 23.	eSS LmH LmV	C C C	PV:1.8s 35.7nm SH(C):15.5s 0.5 $\mu$ m LmH(C):32s 1.3 $\mu$ m LmV(C):22s 0.9 $\mu$ m MPV=4.7 MSH(C)=5.2 MLH(C)=4.6 MLV(C)=4.7
23.	-iP ipP ePP eiS eisS eScS eSS eIPKPPKP LmH LmV	C C C C C C C C C C C	<u>Gulf of Alaska</u> 58.73 N 149.98 W H = 20 29 14.5 h = 23 km MAG=6.3 D = 70.0 Az = 12.4 (USCGS) PV:1.8s 776.0nm SH:10s 2.9 $\mu$ m PKPPKPV:2.3s 316.2nm LmH:15.5s 5.2 $\mu$ m LmV:15.5s 5.8 $\mu$ m MPV=6.5 MSH=6.4 MLH=5.9 MLV=6.0
24.	eP		<u>Chagos Archipelago</u> 5.05 S 68.35 E H = 03 04 17.3 h = normal MAG=4.9 D = 73.7 Az = 326.3 (USCGS)
24.	eP i i eS e LmH LmV	C C C C C C C	<u>Aegean Sea</u> 39.33 N 24.91 E H = 08 18 02.5 h = 17 km MAG=5.2 D = 14.7 Az = 324.7 (USCGS) PV2:1.7s 149.0nm LmH:12s 22.6 $\mu$ m LmV:12s 11.5 $\mu$ m MLH=5.5 MLV=5.4
24.	eP ePn		<u>Eastern Kazakh SSR</u> 49.83 N 78.09 E H = 10 35 57.2 h = 0 km MAG=5.0 D = 41.22 Az = 297.6 (USCGS) PV:0.7s 26.2nm MPV=5.1 Nuclear explosion
24.	eP		<u>Bismarck Sea</u> 4.58 S 149.38 E H = 13 59 14.5 h = 565 km MAG=5.0 D = 122.1 Az = 329.7 (USCGS) PV:1.2s 12.8nm
24.	ePKP		<u>West of Tonga</u> 16.0 S 179.9 W H = 16 22 18 h = 449 km MAG=4.0 D = 144.21 Az = 347 (ISC) PV:1.1s 9.6nm

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Day	Phase	h m s	Remarks
24.	eP epP	19 43 21 43 29	<u>Chagos Archipelago</u> 5.00 S 68.40 E H = 19 31 49.5 h = normal MAG=5.2 D = 75.7 Az = 326.3 (USCGS) PV:1.8s 51.1nm
24.	ePKHKP	22 54 31.5	<u>Fiji Islands</u> 20.89 S 179.16 W H = 22 35 53.34 h = 640 km MAG=4.3 D = 149.11 Az = 346.6 (USCGS) PV:1.3s 13.9nm
25.	eP	04 30 38	<u>Greece - Albania Border Region</u> 39.15 N 20.2 E H = 04 27 29 h = 4 km MAG=4.2 D = 12.98 Az = 335 (ISC)
25.	ePn eiPg iSn eSg	07 41 55 42 04.5 42 31 42 48	<u>Northern Italy</u> 46.9 N 11.5 E H = 07 40 53 h = 0 km D = 3.71 Az = 1 (ISC) e 42 50
25.	ePn iPg iSn eSg LmH LmV	18 28 51.5 29 01.5 29 33 29 57 30.6 30.6	<u>Switzerland</u> 46.6 N 9.8 E H = 18 27 41.4 h = 41 km D = 4.35 Az = 15 (ISC) LmH:9.0s 0.2 $\mu$ m LmV:9.0s 0.3 $\mu$ m e 30.0
25.	ePKP ePKP2 epPKP ePP eSS eSSS LmH LmV	C C C C C C C C	21 45 09 45 12 45 16 48 30 22 07 00 12 40 53.0 53.2
26.	ePKP ePKP2	01 02 07 02 08	<u>Tonga Islands</u> 15.25 S 173.15 W H = 00 42 34.9 h = normal MAG=5.3

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Day	Phase	h m s	Remarks
cont.			
26.	ePP C	01 05 20	D = 144.5 Az = 354.8 (USCGS)
	eSS C	24 00	PV:1.6s 53.0nm
	eSSS C	29 40	LmH:20s 4.0 $\mu$ m LmV:20s 2.9 $\mu$ m
	LmH	02 10.2	MLH=6.1
	LmV	10.2	
26.	eP	03 04 47	<u>Iran</u> 35.09 N 50.16 E
	epP	04 53	H = 02 58 22.1 h = 21 km MAG=5.3
	e	05 23	D = 31.83 Az = 311.2 (USCGS)
			PV:1.2s 12.8nm MPV=4.7
26.	eP	11 23 42	<u>Kurile Islands</u> 43.42 N 146.40 E
			H = 11 11 45.4 h = 43 km MAG=4.6
			D = 78.39 Az = 333 (ISC)
26.	eP	13 25 04.5	<u>Central Mid-Atlantic Ridge</u>
	eS	32 55	0.18 S 18.17 W
	LmV	49.9	H = 13 15 23.3 h = normal MAG=5.2
	LmH	50.0	D = 56.6 Az = 22.3 (USCGS)
			PV:1.3s 36.2nm
			LmH:17s 1.8 $\mu$ m LmV:18s 1.6 $\mu$ m
			MPV=5.2 MLH=5.2 MLV=5.2
26.	eP	13 33 27	<u>Near East Coast of Honshu, Japan</u>
	eipP	33 39.8	37.38 N 141.41 E
	esP	33 49.5	H = 13 21 13.0 h = 67 km MAG=5.2
	e	33 55	D = 81.9 Az = 330.4 (USCGS)
	e	36 15.5	PV:1.0s 19.0nm MPV=5.2
26.	+iP	15 12 17.7	<u>Southern Nevada Nuclear Explosion "Boxcar"</u>
	ePP	15 23	37.296 N 116.456 W (USCGS)
	ePKPPKP	38 55	37 <sup>o</sup> 17'43"N 116 <sup>o</sup> 27'20"W (USAEC)
	e	39 11	H = 15 00 00.1 h = 0 km MAG=6.3
	LmV	50.4	D = 81.247 Az = 30.5 (USCGS)
	LmH	51.3	PV:1.4s 181.0nm PPV:1.8s 138.0nm
			LmH:14.5s 2.9 $\mu$ m LmV:16.5s 4.3 $\mu$ m
			MPV=5.9 MPPV=5.9 MLH=5.8 MLV=5.9

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Day	Phase	h m s	Remarks
26.	eP	18 00 59	<u>Near Coast of Michoacan, Mexico</u>
	epP	01 10.5	18.72 N 103.27 W
	eSKKS C	11 30	H = 17 48 02.3 h = 65 km MAG=5.5
	ePS C	13 05	D = 90.5 Az = 35.3 (USCGS)
	eSS C	18 08	LmH:17s 5.1 $\mu$ m LmV:15.5s 5.9 $\mu$ m
	LmH	43.5	MLH=6.0 MLV=6.1
	LmV	43.5	
26.	ePKP	18 16 31	<u>New Caledonia</u> 23.31 S 168.91 E
			H = 17 56 37.79 h = 22 km
			D = 147.50 Az = 332.8 (USCGS)
27.	ePKIKP	14 16 22	<u>Fiji Islands</u> 21.24 S 179.18 W
	ePKHKP	16 28	H = 13 57 50.06 h = 670 km MAG=4.5
	ePKP2	16 35	D = 149.45 Az = 346.4 (USCGS)
			PV2:1.4s 30.7nm PV3:1.3s 22.2nm
28.	eP	04 30 42.5	<u>North Pacific Ocean</u> 44.80 N 175.54 E
	ePcP	30 44.5	H = 04 18 15.7 h = 39 km MAG=5.5
	epP	30 53	D = 83.79 Az = 349.2 (USCGS)
			PV:1.6s 87.1nm MPV=5.7
28.	eP	06 35 29	<u>North Pacific Ocean</u> 44.79 N 174.69 E
			H = 06 23 01.7 h = normal MAG=4.3
			D = 83.81 Az = 349.3 (USCGS)
			PV:1.2s 10.2nm MPV=4.9
28.	eP	09 32 30	<u>Jan Mayen Island</u> 72.02 N 1.64 W
	e	32 36	H = 09 27 36.7 h = normal MAG=4.4
	e	33 02.5	D = 22.26 Az = 157.3 (USCGS)
	LmH C	40	PV:1.7s 39.5nm
28.	eP	10 16 18	<u>Off Coast of Central America</u>
	PmV	16 21	11.75 N 88.81 W
			H = 10 03 31.5 h = 39 km MAG=4.9
			D = 87.5 Az = 38.8 (USCGS)
			PmV:14s 18.4nm MPV=5.2

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Day	Phase	h m s	Remarks
28.	eP	20 19 13	<u>North Atlantic Ridge</u> 45.47 N 27.84 W H = 20 13 36.7 h = normal MAG=4.5 D = 26.64 Az = 64.5 (USCGS)
	epP	19 21	
	LmH	29.2	
	LmV	29.7	
29.	eP	00 33 53	<u>Northern California</u> 39.54 N 122.08 W H = 00 21 36.6 h = 15 km MAG=5.0 D = 81.44 Az = 27.7 (USCGS) PV:1.0s 11.8nm LmH(C):18s 0.3 $\mu$ m LmV(C):15s 0.3 $\mu$ m MPV=5.0 MLH(C)=4.7 MLV(C)=4.7
	LmH	C 01 12 30	
	LmV	C 12 30	
29.	+ePKHKP	09 51 37	<u>Fiji Islands</u> 21.34 S 179.49 W H = 09 32 56.8 h = 640 km MAG=4.5 D = 149.47 Az = 346.0 (USCGS) PV1:1.2s 15.3nm PV2:1.2s 17.9nm
	ePKP2	51 44.5	
29.	+eP	17 07 24.5	<u>N.W. Iran - USSR Border</u> 39.22 N 44.25 E H = 17 01 57.6 h = 34 km MAG=5.3 D = 25.57 Az = 307.3 (USCGS) PV:1.3s 55.5nm SH(C):20s 5.1 $\mu$ m LmH:14s 5.6 $\mu$ m LmV:14s 7.1 $\mu$ m MPV=5.0 MSH(C)=5.6 MLH=5.3 MLV=5.5
	esP	07 34.5	
	eS	C 11 50	
	esS	C 11 52	
	eSS	C 12 40	
	LmH	19.9	
	LmV	20.1	
29.	epP	22 40 19	<u>Peru-Ecuador Border Region</u> 2.56 S 17.19 W H = 22 26 54.4 h = 131 km MAG=4.7 (USCGS) D = 91.4
30.	+eP	01 54 11.5	<u>Near East Coast of Kamchatka</u> 54.30 N 159.45 E H = 01 42 58.7 h = 118 km MAG=5.1 D = 72.01 Az = 339.1 (USCGS)
	ePcP	54 23	
	epP	54 44.5	
30.	ePKHKP	19 04 52	<u>Tonga Islands</u> 21.41 S 174.46 W H = 18 45 24.1 h = 197 km MAG=4.5 D = 150.43 Az = 352.2 (USCGS)
	e	04 56	
	e	05 02	

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Day	Phase	h m s	Remarks
1.	-eP	00 09 55	<u>S. Chile - Argentina Border Region</u> 38.41 S 71.08 W H = 23 51 17.9 h = 40 km MAG=5.9 D = 114.43 Az = 43.9 (USCGS) PV:1.3s 16.7nm LmH:20s 0.5 $\mu$ m LmV:20s 0.8 $\mu$ m MLH=5.1 MLV=5.3
	LmV	58.9	
	LmH	59.0	
1.	+iP	08 55 02.5	<u>Off Coast of Honshu, Japan</u> 38.61 N 143.09 E H = 08 43 47.4 h = 36 km MAG=5.3 (USCGS) D = 81.5 PV:1.2s 51.1nm LmH:15s 2.0 $\mu$ m LmV:13.5s 2.0 $\mu$ m MPV=5.5 MLH=5.6 MLV=5.7
	LmH	09 32.8	
	LmV	37.7	
1.	eP	19 25 00	<u>Near East Coast of Honshu, Japan</u> 40.88 N 142.52 E H = 19 12 53.4 h = 18 km MAG=4.9 D = 79.2 Az = 330.7 (USCGS) PV2:2.0s 39.8nm LmH:12.5s 1.6 $\mu$ m LmV:14.5s 1.3 $\mu$ m MPV2=5.1 MLH=5.6 MLV=5.4
	e	25 05	
	e	25 20	
	e	25 40	
	LmH	20 02.0	
1.	LmV	05.8	
2.	eP	00 36 34	<u>Eastern India</u> 26.25 N 92.25 E H = 00 26 02.9 h = 53 km MAG=4.8 D = 64.39 Az = 315.8 (USCGS) PV:1.3s 11.1nm MPV=4.9
2.	eP	05 40 44	<u>Dominican Republic</u> 18.78 N 69.64 W H = 05 29 38.2 h = 82 km MAG=5.8 D = 70.22 Az = 42.0 (USCGS) PV:2.0s 92.7nm LmH:20s 0.7 $\mu$ m LmV:20s 0.8 $\mu$ m MPV=5.6 MLH=4.9 MLV=5.0
	eipP	41 05	
	eisP	41 14.5	
	eS	49 50	
	LmH	06 08	
2.	LmV	08.3	
2.	LmH	08 00	LmH:17s 0.7 $\mu$ m LmV:18s 1.0 $\mu$ m
	LmV	08 00	

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Day	Phase	h m s	Remarks
2.	eP e eS LmH LmV	08 05 01 05 05.5 10 40 18 18	<u>Azores Islands</u> 36.29 N 34.08 W H = 07 58 05.5 h = normal MAG=4.9 D = 35.54 Az = 51.6 (USCGS) LmH:17s 0.7/um LmV:18s 1.1/um MLH=4.5 MLV=4.8
2.	ePKP e e	13 21 56.5 21 58 22 01.5	<u>Fiji Islands</u> 17.61 S 178.66 W H = 13 03 14.7 h = 504 km MAG=4.1 D = 146.03 Az = 348.3 (USCGS)
2.	+eIP epP ePP eSP LmH LmV	23 44 27.5 44 57 45 19 54 30 00 32.5 34	<u>Banda Sea</u> 6.35 S 129.93 E H = 23 26 03.6 h = 128 km MAG=5.5 D = 112.6 Az = 322.6 (USCGS) LmH:16s 1.0/um LmV:16s 0.9/um MLH=5.5 MLV=5.5 e 52 42 e1 55 32 e 56 36 e 56 38
3.	-eIP epP esP iS ePS LmH LmV	05 45 07.5 45 32.5 45 46 55 20 56 00 06 25.3 28.7	<u>Northeast of Taiwan</u> 25.14 N 124.58 E H = 05 32 45.7 h = 98 km MAG=5.8 D = 84.2 Az = 323.9 (USCGS) SH:10s 1.4/um LmH:15s 1.1/um LmV:17s 0.8/um MSH=6.1 MLH=5.3 MLV=5.2
3.	+eP	16 25 25	<u>Unimak Island</u> 54.16 N 163.26 W H = 16 13 40.0 h = 17 km MAG=5.0 D = 75.5 Az = 3.4 (USCGS) PV:1.0s 16.6nm MPV=5.1
4.	eP	03 33 19	<u>South of Honshu, Japan</u> 29.73 N 138.00 E H = 03 21 26.3 h = 484 km MAG=4.4 D = 87.02 Az = 329.1 (USCGS)
4.	ePn eSn eSg	15 34 56 36 02 36 41	<u>Northern Italy</u> 44 1/2 N 9 1/4 E H = 15 33 16 (BCIS) D = 6.3 e 35 25 e 36 23

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Day	Phase	h m s	Remarks
6.	eP e LmH LmV	09 42 28 42 34 49.7 49.7	<u>Turkey</u> 40.35 N 28.61 E H = 09 38 47.1 h = 21 km MAG=4.3 D = 15.71 Az = 316.6 (USCGS) LmH:10s 0.8/um LmV:11.2s 0.7/um MLH=4.2 MLV=4.2
6.	eP epP e	14 50 20.5 50 51 50 58	<u>Guatemala</u> 14.64 N 90.82 W H = 14 37 49.8 h = 123 km MAG=5.1 D = 86.51 Az = 38.5 (USCGS) PV:1.7s 39.5nm MPV=5.3
6.	eP	20 57 33	<u>Hindu Kush Region</u> 36.50 N 70.85 E H = 20 49 45.5 h = 231 km MAG=5.0 (USCGS) D = 44.0 PV:1.4s 12.3nm MPV=4.4
7.	eP Pm epP e e	09 12 29 12 31.5 13 10 13 26.5 13 43	<u>Northern Columbia</u> 6.74 N 73.02 W H = 09 00 29.0 h = 168 km MAG=5.7 D = 81.43 Az = 39.9 (USCGS) PV2:0.8s 14.2nm MPV2=5.1 e 12 56 e 24 20
7.	ePKHKP	12 02 16	<u>Fiji Islands</u> 19.20 S 177.61 W H = 11 43 31.6 h = 533 km MAG=4.9 D = 147.78 Az = 349.0 (USCGS) PV:1.3s 33.4nm
8.	ePKP	00 34 43	<u>Fiji Islands</u> 17.77 S 178.57 W H = 00 16 08.7 h = 589 km MAG=4.7 D = 146.20 Az = 348.3 (USCGS) PV:1.1s 9.6nm
8.	ePKIKP e ePKP2 e	11 20 02 20 11 20 38 20 45	<u>Maquarie Islands</u> 58.02 S 157.67 E H = 11 00 07.4 h = normal MAG=5.7 D = 159.06 Az = 264.1 (USCGS) e 20 07 e 20 49

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Day	Phase	h m s	Remarks
8.	eP iPcP eIS eSKS LmH LmV	12 29 20.5 29 23 39 22 39 26 13 09.5 09.6	<u>Off Coast of Oregon</u> 43.57 N 127.90 W H = 12 17 13.4 h = normal MAG=6.1 D = 79.77 Az = 24.8 (USCGS) PV2:1.8s 265.8nm SH:12s 3.8/um LmH:17s 12.9/um LmV:17s 10.8/um MPV2=5.9 MSH=6.2 MLH=6.3 MLV=6.3
8.	eP	22 29 18	<u>Off Coast of Oregon</u> 43.87 N 128.18 W H = 22 17 13.8 h = normal MAG=5.0 D = 79.58 Az = 24.7 (USCGS)
8.	+iP epP esP	22 53 04.5 53 37 53 54	<u>Afghanistan - USSR Border Region</u> 37.10 N 71.94 E H = 22 45 08.3 h = 160 km MAG=5.1 D = 44.34 Az = 307.7 (USCGS)
9.	eP ePcP eS LmV LmH	03 15 08 15 14.5 25 12 52.0 52.6	<u>Off Coast of Oregon</u> 43.44 N 126.97 W H = 03 03 01.8 h = normal MAG=5.2 D = 79.59 Az = 25.4 (USCGS) LmH:18s 0.7/um LmV:18s 0.8/um MLH=5.0 MLV=5.1
9.	ePKIKP ePKHKP ePKP2 eisPKP2 LmH LmV	07 39 52 40 10 40 33 40 56 08 41 50	<u>Kermadec Islands</u> 31.78 S 178.75 W H = 07 19 55.0 h = 12 km MAG=5.0 D = 159.64 Az = 340.8 (USCGS)
9.	eP ePcP epP eSKS eSoS ePS eSS eLQ eLR LmH LmV	13 05 53 05 54 06 02 16 28 17 12 18 35 23 30 33.0 39.7 47.7 47.7	<u>Near Coast of Northern Peru</u> 5.31 S 81.72 W H = 12 52 24.4 h = 35 km MAG=5.6 (USCGS) D = 96.2 SH(C):16s 0.5/um LmH:20s 0.4/um LmV:20s 0.4/um MLH=4.8 MLV=4.9

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Day	Phase	h m s	Remarks
9.	eP epP eS LmV LmH	14 34 34 34 43 44 44 15 16.3 16.5	<u>Southern Honshu, Japan</u> 34.15 N 136.79 E H = 14 22 08.7 h = 18 km MAG=4.9 D = 82.72 Az = 328.4 (USCGS) LmH:14s 1.8/um LmV:14s 2.5/um MLH=5.6 MLV=5.8
9.	ePKP2	15 13 50.5	<u>South of Kermadec Islands</u> 32.57 S 178.54 W H = 14 53 12.4 h = normal MAG=4.4 (USCGS) D = 160.4 PV:2.0s 39.8nm
10.	iPKP i	06 17 36.5 17 50	<u>Loyalty Islands</u> 22.33 S 171.59 E H = 05 58 07.2 h = 123 km MAG=4.9 D = 147.68 Az = 335.9 (USCGS)
10.	eP ePcP LmH LmV	09 35 59 36 02 10 17.1 17.2	<u>Taiwan</u> 24.25 N 121.85 E H = 09 23 31.5 h = 21 km MAG=4.8 D = 83.46 Az = 323.0 (USCGS) LmH:16s 3.6/um LmV(C):19s 4.1/um MLH=5.9 MLV(C)=5.9
10.	ePn ePg eSg	15 05 26 05 27.5 05 49	<u>Germany, Explosion of 6.8 Tons</u> 50.33 N 9.38 E H = 15 05 00.48 (HAN) D = 1.46 Az = 77 (ISC) ei 05 41 e 05 45
10.	eP eS ePS LmH LmV	15 21 49 32 08 32 48 16 04.0 16 04.0	<u>Taiwan</u> 24.28 N 121.90 E H = 15 09 20.6 h = 26 km MAG=4.8 D = 83.46 Az = 323.1 (USCGS) LmH:16s 3.2/um LmV:16s 3.7/um MLH=5.8 MLV=5.9
10.	eP eS eSP LmH LmV	20 45 42 56 00 56 47 21 26.9 27.8	<u>Taiwan</u> 24.33 N 121.96 E H = 20 33 13.2 h = 20 km MAG=4.9 D = 83.45 Az = 323.1 (USCGS) LmH:17.5s 3.3/um LmV:15.5s 3.8/um MLH=5.8 MLV=5.9

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Day	Phase	h m s	Remarks
10.	ePKP +i iPKP2 epPKP2	23 08 04.5 08 05.5 08 10 08 55.5	<u>Fiji Islands</u> 21.22 S 176.62 W H = 22 48 36.8 h = 203 km MAG=5.1 D = 149.93 Az = 349.5 (USCGS) PV2:1.1s 43.3nm PV3:0.9s 35.4nm
11.	iP	12 18 33	<u>Caspian Sea</u> 41.01 N 49.83 E H = 12 12 44.6 h = 42 km MAG=5.0 D = 28.04 Az = 303 (ISC)
11.	ePKP epPKP ePS LmH LmV	15 52 29 52 41.5 16 04 20 36.8 45.5	<u>East New Guinea</u> 6.41 S 147.28 E H = 15 33 41.3 h = 76 km MAG=5.5 D = 122.56 Az = 328.1 (USCGS) PV:1.8s 40.8nm LmH:19s 0.9 $\mu$ m LmV:20s 0.9 $\mu$ m MLH=5.4 MLV=5.4
11.	ePKP esPKP2	17 17 12 17 29	<u>Loyalty Islands</u> 22.16 S 170.02 E H = 16 57 30.2 h = 15 km D = 146.92 Az = 334.6 (USCGS)
12.	eIPKP ePKP2 epPKP2 esPKP	18 58 44.5 58 49.5 58 53.5 59 04.5	<u>New Hebrides Islands</u> 18.95 S 169.75 E H = 18 39 10.8 h = 16 km MAG=5.1 D = 143.92 Az = 336.3 (USCGS)
12.	iPKP ePKP2 epPKP2 epPKP	19 15 58 16 03 16 07 16 11	<u>New Hebrides Islands</u> 19.02 S 169.70 E H = 18 56 22.8 h = 5 km MAG=4.6 D = 143.96 Az = 336.2 (USCGS)
13.	eIP eS LmV LmH	C 02 51 19.5 55 16 03 01.0 01.4	<u>Western Caucasus</u> 43.55 N 40.32 E H = 02 46 35.7 h = 5 km MAG=5.1 D = 20.70 Az = 300.1 (USCGS) SH:10s 0.5 $\mu$ m LmH:14s 2.3 $\mu$ m LmV:13s 2.1 $\mu$ m MSH=4.7 MLH=4.7 MLV=4.8
13.	ePKP	04 15 42	<u>New Hebrides Islands</u> 19.00 S 169.64 E H = 03 56 09.2 h = 13 km MAG=5.1 D = 143.92 Az = 336.1 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
13.	eP	20 35 44.5	<u>Near East Coast of Kamchatka</u> 51.52 N 158.62 E H = 20 24 08.5 h = 34 km MAG=4.8 D = 74.43 Az = 338.9 (USCGS)
13.	eP e epP LmH LmV	21 15 07 15 12 15 17 43 43	<u>South Atlantic Ridge</u> 12.98 S 14.72 W H = 21 04 13.0 h = normal MAG=5.2 D = 67.41 Az = 17.8 (USCGS) PV:1.5s 33.6nm LmH(C):24s 0.4 $\mu$ m LmV(C):24s 0.5 $\mu$ m MPV=5.4 MLH(C)=4.6 MLV(C)=4.7
14.	ePKP ePKP2 epPKP2	01 35 06 35 07.5 35 23	<u>Tonga Islands</u> 18.57 S 172.46 W H = 01 15 24.9 h = 39 km MAG=5.0 D = 147.84 Az = 355.1 (USCGS)
14.	ePKIKP ePKP2	05 56 40.5 56 48	<u>South of Fiji Islands</u> 23.82 S 176.92 W H = 05 37 05.3 h = 122 km MAG=4.9 D = 152.42 Az = 348.2 (USCGS) PV2:1.1s 24.0nm
14.	+iP +iPcP epP eiPP epPP iS eISP LmH LmV	14 17 12.5 17 14 17 49 20 25 21 16 27 17 28 10 59.4 15 01.5	<u>Ryukyu Islands</u> 29.93 N 129.37 E H = 14 05 06.0 h = 168 km MAG=5.9 D = 82.80 Az = 325.4 (USCGS) PV:2.4s 2720.0nm SH:13s 8.2 $\mu$ m LmH:15s 9.5 $\mu$ m LmV:16s 9.5 $\mu$ m MPV=6.6 MSH=6.7 i 17 56 ei 21 18
15.	eP i epP esP eS eScS eSS LmH LmV	08 02 10.5 02 12 02 22 02 23.5 11 05 12 10 16.0 36.3 36.4	<u>Zambia</u> 15.89 S 25.94 E H = 07 51 17.4 h = normal MAG=6.1 D = 67.43 Az = 350.2 (USCGS) PV2:2.2s 105.0nm LmH:16s 4.3 $\mu$ m LmV:15s 5.7 $\mu$ m MPV2=5.7 MLH=5.8 MLV=6.0 e(C) 19 15

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Day	Phase	h m s	Remarks
15.	ePKP epPKP ePKP2 LmH LmV	15 20 22.5 20 27 21 03 16 44.0 44.0	<u>Kermadec Islands</u> 29.79 S 179.04 W H = 15 00 29.9 h = normal MAG=5.1 D = 157.68 Az = 341.9 (USCGS) PV3:1.6s 68.2nm LmH:19s 6.5 $\mu$ m LmV:18s 6.3 $\mu$ m MLH=6.4
16.	eP ipP eISKS eiScS	01 01 03 01 05 11 16 11 18	<u>Off East Coast of Honshu, Japan</u> 40.84 N 143.22 E H = 00 48 55.4 h = 7 km MAG=5.9 D = 79.54 Az = 331.0 (USCGS)
16.	eP epP	03 57 41 57 54	<u>Off East Coast of Honshu, Japan</u> 40.12 N 143.91 E H = 03 45 31.3 h = normal MAG = 4.4 D = 80.42 Az = 331.5 (USCGS) PV:1.2s 10.2nm MPV=4.6
16.	eP	04 28 54	<u>Near East Coast of Honshu, Japan</u> 40.63 N 142.73 E H = 04 15 47.0 h = 59 km MAG=4.5 D = 79.54 Az = 331 (O-C)= +65.4sec (ISC)
16.	eP ipP	04 47 04.5 47 19	<u>Hokkaido, Japan</u> 41.48 N 142.32 E H = 04 35 04.0 h = normal MAG=5.1 D = 78.65 Az = 330.5 (USCGS) PV:1.2s 15.3nm MPV=5.0
16.	e(P)	05 23 53	<u>Off East Coast of Honshu, Japan</u> 40.44 N 143.53 E H = 05 11 34.9 h = 15 km MAG=4.9 D = 80.00 Az = 331.2 (O-C)=+8,2s (USCGS)
16.	eP	05 27 15.5	<u>Off East of Honshu, Japan</u> 40.57 N 143.09 E H = 05 15 07.4 h = 19 km MAG=4.9 D = 79.72 Az = 331.0 (USCGS) PV:1.0s 7.1nm MPV=4.6

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Day	Phase	h m s	Remarks
16.	eP ePcP e	05 56 49 56 58 57 36	<u>Off East Coast of Honshu, Japan</u> 40.57 N 143.75 E H = 05 44 40.4 h = 25 km MAG=4.6 D = 79.97 Az = 331.3 (USCGS)
16.	eP ePcP e	06 42 31 42 38 42 57	<u>Off East Coast of Honshu, Japan</u> 40.50 N 143.56 E H = 06 30 20.7 h = 14 km MAG=5.2 D = 79.96 Az = 331.3 (USCGS) PV:1.2s 15.3nm MPV=4.8
16.	-iP eipP i eScS LmH LmV	06 48 54.5 49 08 49 13 59 10 07 27.3 27.7	<u>Hokkaido, Japan</u> 41.08 N 142.96 E H = 06 36 51.1 h = 35 km MAG=5.7 D = 79.23 Az = 330.9 (USCGS) PV:1.2s 56.1nm LmH:18s 6.3 $\mu$ m LmV:18.5s 5.6 $\mu$ m MPV=5.5 MLH=6.0 MLV=6.0
16.	eP esP e	07 40 21 40 30 40 39.5	<u>Off East Coast of Honshu, Japan</u> 40.22 N 143.34 E H = 07 28 03.9 h = 36 km MAG=4.7 D = 80.12 Az = 331 (ISC) PV:1.0s 9.5nm MPV=4.7
16.	eP ePcP esP	08 01 02.5 01 12 01 18	<u>Hokkaido, Japan</u> 41.31 N 142.62 E H = 07 49 01.5 h = 38 km MAG=5.1 D = 78.91 Az = 330.7 (USCGS) PV:1.4s 21.5nm MPV=5.0
16.	eP esP	08 32 00.5 32 23	<u>Hokkaido, Japan</u> 41.07 N 142.80 E H = 08 19 56.7 h = 22 km MAG=4.8 D = 79.18 Az = 330.8 (USCGS)
16.	eP epP	08 38 06 38 37	<u>Northern Peru</u> 3.75 S 76.60 W H = 08 25 09.2 h = 113 km MAG=5.4 D = 91.73 Az = 39.5 (USCGS)

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Day	Phase	h m s	Remarks
16.	+eP	08 58 45.5	<u>Off East Coast of Honshu, Japan</u>
	epP	58 55.5	40.87 N 143.01 E
	esP	59 03.5	H = 08 46 39.9 h = 28 km MAG=4.8 D = 79.43 Az = 330.9 (USCGS) PV:1.5s 26.8nm MPV=5.0
16.	eP	09 10 15	<u>Hokkaido, Japan</u> 41.43 N 142.72 E
	ePP	13 16	H = 08 58 11.1 h = 15 km MAG=5.4
	eS	20 09	D = 78.84 Az = 330.7 (USCGS)
	eSKS	20 32	PV:(2.0)s 129.0nm
	eSP	20 48	LmH:17s 6.5 $\mu$ m LmV:17s 5.5 $\mu$ m
	LmH	48.3	MPV=5.6 MLH=6.0 MLV=6.0
	LmV	48.5	
16.	eP	10 24 43	<u>Off East Coast of Honshu, Japan</u> 40.54 N 143.53 E H = 10 12 35.7 h = normal MAG=4.8 D = 79.92 Az = 331.2 (USCGS)
16.	-iP	10 51 02	<u>Hokkaido, Japan</u> 41.47 N 142.67 E
	+ipP	51 06.6	H = 10 39 01.6 h = normal MAG=6.3
	ePP	54 00	D = 78.78 Az = 330.7 (USCGS)
	iS	11 01 00	SH:16s 86.5 $\mu$ m
	ePKPKPKP	18 10	PV(A):2.0s 2040.0nm PV(B):12s 29.4 $\mu$ m
	LmH	29.5	LmH:18s 615.0 $\mu$ m LmV:19s 750.0 $\mu$ m MPV(A)=6.8 MPV(B)=7.2 MSH=7.5 MLH=8.0 MLV=8.1
16.	+eP	12 21 36.5	<u>Hokkaido, Japan</u> 41.05 N 142.99 E
	e	21 47	H = 12 09 31.9 h = 24 km MAG=5.1
	e	24 48	D = 79.27 Az = 350.9 (USCGS)
	LmV	58.9	PV:1.6s 37.9nm
	LmH	59.0	LmH:24s 24.4 $\mu$ m LmV:23s 28.7 $\mu$ m MPV=5.2 MLH=6.5 MLV=6.6
16.	eP	12 46 25.5	<u>Hokkaido, Japan</u> 41.70 N 142.64 E H = 12 34 24.9 h = 26 km MAG=4.9 D = 78.58 Az = 330.7 (USCGS)

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Day	Phase	h m s	Remarks
16.	eP	12 57 40	<u>Hokkaido, Japan</u> 41.15 N 142.75 E H = 12 45 39 h = 47 km MAG=4.9 D = 79.09 Az = 331 (ISC)
16.	eP	13 31 55	<u>Hokkaido, Japan</u> 41.3 N 142.0 E H = 13 20 05.8 h = 40 km MAG=4.3 D = 78.65 Az = 330 (ISC)
16.	eP	13 37 55	<u>Hokkaido, Japan</u> 41.44 N 142.90 E
	ePcP	38 10	H = 13 25 52.8 h = normal MAG=4.9 D = 78.89 Az = 330.8 (USCGS) PV:1.1s 9.6nm MPV=4.4
16.	-eP	14 01 48.5	<u>Off East Coast of Honshu, Japan</u>
	e	01 54	39.92 N 143.55 E H = 13 49 32.3 h = 0 km MAG=5.0 D = 80.46 Az = 331 (ISC) PV:1.9s 58.9nm MPV=5.0
16.	eP	14 04 49	<u>Off East Coast of Honshu, Japan</u>
	epP	05 00	40.2N 143.58 E H = 13 52 41.1 h = 31 km MAG=4.7 D = 80.26 Az = 331 (ISC)
16.	eP	14 14 41	<u>Hokkaido, Japan</u> 41.42 N 142.26 E
	epP	14 54.5	H = 14 02 40.7 h = 37 km MAG=4.8 D = 78.67 Az = 330.5 (USCGS)
16.	+eiP	14 15 28.5	<u>Near East Coast of Honshu, Japan</u>
	epP	15 41	39.8 N 142.7 E H = 14 03 20.0 h = 41 km MAG=5.3 D = 80.27 Az = 331 (ISC) PV:1.2s 20.4nm MPV=5.0
16.	eP	15 04 34.5	<u>Hokkaido, Japan</u> 41.37 N 143.48 E
	iPcP	04 41.3	H = 14 52 32.0 h = 36 km MAG=4.7
	eipP	04 45	D = 79.17 Az = 331.1 (USCGS) PV:1.4s 21.5nm MPV=4.6

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Day	Phase	h m s	Remarks
16.	eP	15 32 28	<u>Hokkaido, Japan</u> 41.44 N 142.96 E H = 15 20 25.6 h = normal MAG=4.9 D = 78.92 Az = 330.9 (USCGS)
16.	eP ePcP e	16 01 19.5 01 32.5 01 47.5	<u>Northwest of Kurile Islands</u> 47.8 N 147.9 E H = 15 49 41 h = 43 km MAG=4.5 D = 75.02 Az = 333 (ISC)
16.	+eP iPcP eipP ePP eiS LmH LmV	16 25 56.5 25 57.5 26 06.5 29 00 36 00 17 00.7 08.0	<u>Off East Coast of Honshu, Japan</u> 39.68 N 143.55 E H = 16 13 45.1 h = 29 km MAG=5.6 D = 80.68 Az = 331.3 (USCGS) PV(A):1.8s 220.0nm PV(B):8.5s 2.6 $\mu$ m SH:16s 5.1 $\mu$ m LmH:17s 37.5 $\mu$ m LmV:17s 25.6 $\mu$ m MPV(A)=5.9 MPV(B)=6.2 MSH=6.3 MLH=6.8 MLV=6.7
16.	eP	16 34 04	<u>Off Coast of Honshu, Japan</u> 39.75 N 143.56 E H = 16 21 53.4 h = normal MAG=4.8 D = 80.62 Az = 331.3 (USCGS) PV:1.4s 21.5nm MPV=5.0
16.	eP epP	17 33 53 34 05	<u>Hokkaido, Japan</u> 41.08 N 142.65 E H = 17 21 50.9 h = 38 km MAG=4.5 D = 79.12 Az = 330.7 (USCGS)
16.	eP esP ePcP	17 40 15 40 22 40 27.5	<u>Hokkaido, Japan</u> 41.41 N 143.01 E H = 17 28 13.0 h = normal MAG=5.2 D = 78.96 Az = 330.9 (USCGS)
16.	+iP eipP eisP	18 55 21.3 55 36 55 41	<u>Near East Coast of Honshu, Japan</u> 40.71 N 142.11 E H = 18 43 21.0 h = 59 km MAG=5.7 D = 79.24 Az = 330.5 (USCGS) i 56 53.8 i 56 58.8

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Day	Phase	h m s	Remarks
16.	eP ipP eSKS LmH LmV	19 28 47.5 28 58.4 38 55 20 02.5 06.7	<u>Hokkaido, Japan</u> 41.30 N 142.38 E H = 19 16 47.2 h = 42 km MAG=5.6 D = 78.82 Az = 330.6 (USCGS) PV:1.3s 47.3nm LmH:19s 6.7 $\mu$ m LmV:20s 4.5 $\mu$ m MPV=5.4 MLH=6.0 MLV=5.8
16.	-eP esP eS LmH LmV	20 34 16 34 26.5 44 12 21 07.8 12.5	<u>Hokkaido, Japan</u> 41.41 N 142.62 E H = 20 22 14.9 h = 93 km MAG=5.6 D = 78.82 Az = 330.7 (USCGS) PV:1.1s 28.9nm LmH:19.5s 10.6 $\mu$ m LmV:19s 10.2 $\mu$ m MPV=5.2 MLH=6.2 MLV=6.2
16.	eP	21 15 26	<u>Hokkaido, Japan</u> 41.24 N 142.42 E H = 21 03 24.3 h = 33 km MAG=5.0 D = 78.90 Az = 330.6 (USCGS)
16.	eP	21 35 11.5	<u>Off East Coast of Honshu, Japan</u> 40.25 N 143.11 E H = 21 23 03.3 h = normal MAG=4.3 (USCGS) D = 80.07 Az = 331 (ISC) PV:1.1s 7.2nm MPV=4.5
16.	eP ePoP esP	21 38 01.5 38 03.5 38 25.5	<u>Off Coast of Honshu, Japan</u> 40.93 N 143.04 E H = 21 25 56.4 h = 30 km MAG=4.8 D = 79.39 Az = 330.9 (USCGS)
16.	eipP	21 40 33	<u>Off Coast of Honshu, Japan</u> 40.91 N 143.44 E H = 21 28 28.1 h = 33 km MAG=4.7 (ISC) D = 79.5 PV:1.4s 12.3nm MPV=4.7
16.	eP	23 09 07	<u>Off Coast of Honshu, Japan</u> 39.87 N 143.54 E H = 22 56 56.6 h = normal MAG=4.2 D = 80.51 Az = 331.3 (USCGS)

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Day	Phase	h m s	Remarks
16.	+eP	23 17 03	<u>Off Coast of Honshu, Japan</u>
	iPcP	17 07.8	39.83 N 143.08 E
	isP	17 15.8	H = 23 04 54.7 h = 37 km MAG=5.8
	iPP	20 09.3	D = 80.37 Az = 331.1 (USCGS)
	eiS	27 07	PV2(A):1.2s 383.0nm PV(B):12s 7.56/um
	eSKS	27 11	PPH:16s 5.57/um
	LmV	58.2	PPV:14s 7.8/um SH:18.5s 16.7/um
LmH	58.3	LmH:15s 106.2/um LmV:16s 90.0/um MPV2(A)=6.3 MPV(B)=6.5 MPPH=6.7 MPPV=6.6 MSH=6.8 MLH=7.3 MLV=7.3	
16.	eP	23 50 26.5	<u>Off East Coast of Honshu, Japan</u> 39.67 N 143.23 E H = 23 38 15.6 h = normal MAG=4.5 D = 80.57 Az = 331.2 (USCGS)
17.	eP	00 03 47	<u>Off East Coast of Honshu, Japan</u> 39.60 N 143.29 E H = 16d 23 51 36.4 h = 40 km MAG=4.7 D = 80.64 Az = 331 (ISC)
17.	eP	00 08 47	<u>Off East Coast of Honshu, Japan</u> 39.64 N 143.35 E H = 23 56 35.3 h = normal MAG=4.8 D = 80.64 Az = 331.2 (USCGS) PV:1.0s 9.5nm MPV=4.7
17.	eP	00 17 14	<u>Hokkaido, Japan</u> 41.90 N 142.23 E H = 00 05 07.9 h = normal MAG=4.4 D = 78.24 Az = 330.4 (USCGS)
17.	eP	04 48 41	<u>Off Coast of Honshu, Japan</u> 39.10 N 143.61 E H = 04 36 27.4 h = normal MAG=4.6 D = 81.20 Az = 331.4 (USCGS)

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Day	Phase	h m s	Remarks
17.	eP	05 31 45	<u>Off East Coast of Honshu, Japan</u>
	e	31 47.5	39.55 N 143.36 E
	ePcP	31 49.5	H = 05 19 34.9 h = normal MAG=4.5
	LmH	06 13	D = 80.71 Az = 331.2 (USCGS)
	LmV	13	PV2:0.9s 9.4nm LmH:15s 0.6/um LmV:16s 0.6/um MPV2=4.8 MLH=5.1 MLV=5.1
17.	eP	06 36 49	<u>Off East Coast of Honshu, Japan</u>
	esP	36 58	39.07 N 143.49 E
	e	39 03	H = 06 24 35.2 h = 40 km MAG=4.8
	e	39 18.5	D = 81.19 Az = 331.3 (USCGS)
	LmH	07 16.3	PV:1.1s 14.4nm LmH:17s 1.1/um LmV:17s 1.0/um MPV=4.9 MLH=5.3 MLV=5.3
LmV	16.3		
17.	ePKP	07 58 28.5	<u>Loyalty Islands</u> 22.75 S 173.04 E H = 07 38 59.5 h = 98 km MAG=4.3 D = 148.61 Az = 337.1 (USCGS)
17.	eP	08 10 56.5	<u>Mediterranean Sea</u> 35.56 N 22.0 E H = 08 07 00 h = 13 km MAG=4.3 D = 16.84 Az = 337 (ISC)
17.	ePKP	08 16 56	<u>Loyalty Islands</u> 22.68 S 173.02 E
	ePKP2	16 57.5	H = 07 57 17.6 h = 91 km MAG=5.0 D = 148.53 Az = 337.1 (USCGS)
17.	eP	09 13 57	<u>Hokkaido, Japan</u> 41.27 N 142.66 E
	e	14 03	H = 09 01 54.9 h = 34 km MAG=5.0 D = 78.95 Az = 330.7 (USCGS)
17.	eP	10 54 57	<u>Off East Coast of Honshu, Japan</u>
	epP	54 58.5	39.63 N 143.37 E
	esP	55 08	H = 10 42 45.9 h = normal MAG=5.3
	ePP	58 00	D = 80.65 Az = 331.2 (USCGS)
	eS	C 11 05 03	PV:1.6s 34.4nm SH(C):20s 2.0/um
	LmV	36.6	LmH:15.5s 6.3/um LmV:15.5s 5.0/um
	LmH	36.7	MPV=5.1 MSH(C)=5.8 MLH=6.1 MLV=6.0

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Day	Phase	h m s	Remarks
17.	eP	13 12 20	<u>Southern Nevada</u> 37°07'12"N 116°03'32"W H = 13 00 00 Nuclear Explosion "Clarks-mobile" (USAEC) h = 36 km MAG=4.7 (ISC) D = 81.3
17.	eP	13 14 40	<u>Hokkaido, Japan</u> 41.48 N 142.77 E H = 13 02 37.3 h = 45 km MAG=5.6 D = 78.81 Az = 330.7 (USCGS) PV:1.4s 24.5nm MPV=5.1
17.	ePKP ePKP2 epPKP2 LmH LmV	13 23 12 23 18 23 25 48.0 53.0	<u>Loyalty Islands</u> 22.78 S 173.31 E H = 13 03 32.3 h = 55 km MAG=5.7 D = 148.74 Az = 337.3 (USCGS) PV:2.0s 33.2nm LmH:16.5 1.5/um LmV:19s 1.8/um MLH=5.8
17.	eP ePcP epP	15 05 22.5 05 24.5 05 31.5	<u>Off Coast of Honshu, Japan</u> 39.60 N 143.64 E H = 14 53 11.0 h = normal MAG=4.8 D = 80.78 Az = 331.4 (USCGS)
17.	eP	15 29 31	<u>Off East Coast of Honshu, Japan</u> 40.25 N 143.66 E H = 15 17 23.3 h = normal MAG=4.3 D = 80.22 Az = 331.3 (USCGS)
17.	eSg	15 31 50	<u>Birresborn, Eifel, GFR</u> 50°11,76' N 6°37.82' E H = 15 30 00.39 Explosion yield: 6.35 t (HAN) D = 3.2
17.	eP epP esP eS	16 14 33 14 42 14 47 24 37	<u>Off East Coast of Honshu, Japan</u> 40.57 N 144.02 E H = 16 02 24.0 h = normal MAG=5.0 D = 80.07 Az = 331.5 (USCGS)

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Day	Phase	h m s	Remarks
cont. 17.	LmH LmV	16 51.5 56.7	PV(A)max:2.5s 152nm PV(B):10s 0.46/um PV(A):1.8s 46.0nm SH(C):14s 1.1/um LmH:16s 19.4/um LmV:14s 16.0/um MPV(A)=5.2 MPV(A)max=5.5 MPV(B)=5.4 MSH=5.7 MLH=6.6 MLV=6.6
17.	eP	17 40 17	<u>Hokkaido, Japan</u> 41.32 N 142.75 E H = 17 28 00.0 h = 41 km MAG=4.6 D = 78.95 Az = 331 (ISC)
17.	eP	18 16 03	<u>Off East Coast of Honshu, Japan</u> 39.95 N 143.33 E H = 18 03 41.5 h = 15 km MAG=4.4 D = 80.35 Az = 331.2 (USCGS)
17.	+iP ePcP esP eS LmV LmH	18 29 17.7 29 18.5 29 29 39 22 10.3 10.4	<u>Off East Coast of Honshu, Japan</u> 39.63 N 143.04 E H = 18 17 07.3 h = 32 km MAG=5.2 D = 80.53 Az = 331.1 (USCGS) PV:2.2s 105.2nm SH(C):17s 1.7/um LmH:15.5s 7.2/um LmV:16s 6.5/um MPV=5.5 MSH(C)=5.8 MLH=6.1 MLV=6.1
17.	eP	18 54 23	<u>Off East Coast of Honshu, Japan</u> 40.10 N 143.69 E H = 18 42 13.9 h = normal MAG=4.3 D = 80.36 Az = 331.4 (USCGS)
17.	eP epP	20 01 08 01 16	<u>Off East Coast of Honshu, Japan</u> 39.59 N 143.15 E H = 19 48 57.7 h = normal MAG=4.5 D = 80.60 Az = 331.1 (USCGS) PV:1.0s 9.5nm MPV=4.7
17.	eP esP LmH	21 08 21.5 08 26 45.2	<u>Off East Coast of Honshu, Japan</u> 40.51 N 144.00 E H = 20 56 13.9 h = 34 km MAG=4.6

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Day	Phase	h m s	Remarks
cont. 17.	LmV	21 49.2	D = 80.11 Az = 331.5 (USCGS) PV:1.5s 13.4nm LmH:16s 1.1/um LmV:16s 1.1/um MPV=4.7 MLH=5.3 MLV=5.3
17.	eP ePoP eS LmH LmV	22 48 21.5 48 30 58 24 23 22.5 28.9	<u>Off East Coast of Honshu, Japan</u> 40.60 N 143.70 E H = 22 36 14.6 h = normal MAG=4.7 D = 79.93 Az = 331.3 (USCGS) PV:1.6s 26.5nm SH(C):22s 0.5/um LmH:18s 3.1/um LmV:15s 1.6/um MPV=4.7 MSH(C)=5.1 MLH=5.7 MLV=5.5
17.	eP	23 29 21	<u>Off East Coast of Honshu, Japan</u> 40.21 N 143.27 E H = 23 17 12.4 h = normal MAG=4.9 D = 80.11 Az = 331.1 (USCGS) PV:1.0s 11.9nm MPV=4.8
18.	ePP LmH LmV	01 21 33 02 07.5 07.5	<u>South Sandwich Islands</u> 55.38 S 27.72 W H = 01 02 29.2 h = normal MAG=5.4 (USCGS) D = 110.6 LmH:17.5s 0.9/um LmV:17s 0.9/um MLH=5.4 MLV=5.4
18.	eP	05 03 09	<u>Hokkaido, Japan</u> 41.63 N 142.38 E H = 04 51 08.2 h = normal MAG=4.7 D = 78.54 Az = 330.5 (USCGS) PV:1.5s 16.8nm MPV=5.0
18.	eP	06 02 58	<u>Fox Islands, Aleutian Isl.</u> 53.78 N 168.32 W H = 05 51 24.1 h = 131 km MAG=4.5 D = 75.94 Az = 0.0 (USCGS)
18.	eP	09 19 54.5	<u>Off East Coast of Honshu, Japan</u> 40.47 N 143.43 E H = 09 07 47.3 h = normal MAG=4.4 D = 79.94 Az = 331.2 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
18.	eP	14 19 51	<u>Hokkaido, Japan</u> 41.59 N 142.57 E H = 14 07 50.3 h = normal MAG=4.8 D = 78.64 Az = 330.6 (USCGS)
18.	eP	19 29 10	<u>Hokkaido, Japan</u> 41.26 N 142.43 E H = 19 17 09.6 h = normal MAG=4.6 D = 78.88 Az = 330.6 (USCGS) PV:1.3s 8.3nm MPV=4.6
19.	eP	01 30 22	<u>Off East Coast of Honshu, Japan</u> 39.75 N 143.70 E H = 01 18 11.9 h = normal MAG=4.4 D = 80.67 Az = 331.4 (USCGS) PV:1.2s 8.0nm MPV=4.6
19.	eP ePoP eS LmH LmV	04 25 04 25 13 35 24 05 07.7 07.7	<u>Near East Coast of Honshu, Japan</u> 35.63 N 141.74 E H = 04 12 40.3 h = 64 km MAG=5.1 D = 83.52 Az = 330.7 (USCGS) PV1(A):1.2s 12.8nm PV2(A):1.8s 40.8nm PV(B):8s 0.6/um SH:13.5s 1.4/um LmH:15s 10.1/um LmV:14s 10.9/um MPV1(A)=5.0 MPV2(A)=5.5 MPV(B)=5.9 MSH=5.9 MLH=6.3 MLV=6.4
19.	eP	05 00 48	<u>South Atlantic Ridge</u> 17.87 S 13.40 W H = 04 49 28.0 h = normal MAG= - D = 71.69 Az = 16.5 (USCGS) PV:1.2s 10.2nm MPV=4.8
19.	eP LmH LmV	06 06 35 49.2 49.3	<u>Near East Coast of Honshu, Japan</u> 35.61 N 141.89 E H = 05 54 08.4 h = 25 km MAG=4.8 D = 83.59 Az = 330.7 (USCGS) LmH:14s 2.2/um LmV:14s 2.9/um MLH=5.7 MLV=5.8

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Moxa

Day	Phase	h m s	Remarks
19.	eP	09 40 25	<u>Sicily</u> 38.54 N 14.99 E
	e	40 28	H = 09 37 29.8 h = 24 km MAG=4.9
	e	41 27.5	D = 12.34 Az = 349.9 (USCGS)
	LmH	45.2	PV:0.9s 9.4nm
	LmV	45.9	LmH:15s 1.2/um LmV:15s 1.1/um MLH=5.0
19.	eP	15 16 25	<u>Off East Coast of Honshu, Japan</u>
	LmH	51	40.15 N 143.76 E
	LmV	57.1	H = 15 04 15.9 h = normal MAG=4.4 D = 80.34 Az = 331.4 (USCGS) PV:1.2s 10.2nm
19.	eP	16 31 50	<u>Near East Coast of Honshu, Japan</u> 36.85 N 141.60 E H = 16 19 30.1 h = normal MAG=4.5 D = 82.40 Az = 330.5 (USCGS) PV:1.3s 8.3nm MPV=4.8
	eP	16 56 26	<u>Iran</u> 36.35 N 53.36 E
19.	e	57 05	H = 16 49 50.4 h = normal MAG=4.7 D = 33.01 Az = 308.9 (USCGS)
	iP	22 28 51.8	<u>Off East Coast of Honshu, Japan</u>
19.	esP	29 04.5	40.89 N 143.18 E
	ePP	31 46	H = 22 16 44.8 h = 18 km MAG=5.1
	eS	38 50	D = 79.48 Az = 331.0 (USCGS)
	LmH	23 04.3	PV(A):2.2s 158.0nm PV(B):8s 0.56/um
	LmV	10.1	SH(C):23s 1.0/um LmH:16.5s 7.3/um LmV:16s 4.6/um MPV(A)=5.6 MPV(B)=5.6 MSH(C):5.4 MLH=6.1 MLV=6.0
20.	eP	00 44 28	<u>Southern Greece</u> 37.7 N 21.1 E H = 00 40 55 h = 0 km (ISC) D = 14.7

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Day	Phase	h m s	Remarks
20.	eP	02 43 49.5	<u>Near East Coast of Honshu, Japan</u>
	eipP	44 02.8	40.36 N 142.32 E H = 02 31 45.0 h = 44 km MAG=4.5 (USCGS) D = 79.7 PV:1.4s 15.4nm MPV=4.8
20.	eipP	03 28 30	<u>Off East Coast of Honshu, Japan</u>
	eipP	28 39	39.97 N 143.98 E
	ePP	31(45)	H = 03 16 19.6 h = 31 km MAG=5.5
	eS	38 35	D = 80.58 Az = 331.5 (USCGS)
	LmH	04 10.2	PV:1.5s 80.5nm SH(C):15s 0.5/um
20.	LmV	10.2	LmH:14s 2.6/um LmV:16s 1.7/um MPV=5.5 MSH(C)=5.3 MLH=5.7 MLV=5.5
	eP	04 26 45	<u>Hokkaido, Japan</u> 41.43 N 143.20 E
20.	epP	26 56	H = 04 14 42.3 h = normal MAG=4.4 D = 79.01 Az = 331.0 (USCGS) PV:1.6s 15.2nm MPV=4.8
	eP	04 49 37	<u>Off East Coast of Honshu, Japan</u>
20.	eipPcP	49 46	40.12 N 143.86 E
	eP	04 49 37	H = 04 37 26.4 h = 30 km MAG=4.8 D = 80.41 Az = 331.4 (USCGS) PV1:1.4s 9.2nm PV2:1.1s 14.4nm MPV1=4.6 MPV2=4.9
20.	eP	07 05 44	<u>Off East Coast of Honshu, Japan</u>
	ePP	08 48	40.28 N 143.71 E
	eS	15 47	H = 06 53 35.2 h = normal MAG=5.2
	e	23 30	D = 80.20 Az = 331.3 (USCGS)
	LmH	46.5	PV:1.4s 55.2nm SH(C):17s 0.7/um
20.	LmV	52.3	LmH:15.5s 3.4/um LmV:13s 2.1/um MPV=5.4 MSH(C)=5.4 MLH=5.8 MLV=5.7
	ePKIKP	07 32 59.5	<u>Kermadec Islands</u> 30.91 S 178.33 W
20.	iPKP2	33 36.5	H = 07 13 03.0 h = 22 km MAG=6.0
	ePP	37 14	D = 158.93 Az = 342.2 (USCGS)
20.	LmH	08 37.3	LmH:24s 2.4/um LmV:26s 2.5/um
	LmV	37.3	MLH=5.9

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Moxa

Day	Phase	h m s	Remarks
20.	iP	10 46 02.4	<u>Kurile Islands</u> 48.82 N 154.73 E
	epP	46 20	H = 10 34 16.8 h = 40 km MAG=5.4
	eisP	46 25	D = 75.99 Az = 336.8 (USCGS)
	eS	55 39	PV:1.6s 56.9nm SH=10.5s 0.6/um
	ePKKP	11 04 53	LmH:19s 3.7/um LmV:18.5s 3.6/um
	LmH	23	MPV=5.5 MSH=5.5 MLH=5.7 MLV=5.8
	LmV	23	e 46 27 1 46 32.5
20.	eP	12 05 26	<u>Near East Coast of Kamchatka</u>
	i	05 29	51.90 N 158.47 E H = 11 53 55.5 h = 55 km MAG=5.3 D = 74.04 Az = 338.8 (USCGS) PV1:1.3s 22.2nm PV2:1.1s 26.4nm MPV1=5.0 MPV2=5.2
20.	ePKP	17 39 17	<u>New Ireland</u> 4.97 S 153.29 E
	epPKP	39 30	H = 17 20 22.4 h = 45 km MAG=5.3
	esPKP	39 37	D = 124.33 Az = 331.4 (USCGS)
20.	+eiPKIKP	20 25 41.5	<u>Kermadec Islands</u> 30.72 S 178.39 W
	ePKHKP	25 57	H = 20 05 49.1 h = 46 km MAG=6.0
	iPKP2	26 20.5	D = 158.74 Az = 342.2 (USCGS)
	LmH	58.5	PV:2.6s 915.0nm
	LmV	21 01.6	LmH:21.5s 10.2/um LmV:22s 4.6/um MLH=6.5
20.	+iP	21 21 43.5	<u>Kurile Islands</u> 44.85 N 150.29 E
	LmH	58.9	H = 21 09 44.8 h = 38 km MAG=5.8
	LmV	22 03.5	D = 78.36 Az = 334.6 (USCGS) PV(A):1.5s 403.0nm PV(B):12s 8.7/um LmH:16s 85.9/um LmV:16s 90.0/um MPV(A)=6.3 MPV(B)=6.7 MLH=7.2 MLV=7.2
20.	eP	23 36 22.5	<u>Kurile Islands</u> 45.03 N 150.46 E
	esP	36 36	H = 23 24 26.9 h = 52 km MAG=4.4 D = 78.25 Az = 334.7 (USCGS) PV:1.4s 18.4nm MPV=5.0

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Day	Phase	h m s	Remarks
21.	eP	00 17 06	<u>Kurile Islands</u> 43.92 N 150.32 E
	epP	17 20	H = 00 05 05.8 h = 45 km MAG=4.2 D = 79.20 Az = 334.7 (USCGS) PV:1.5s 16.8nm MPV=4.8
21.	+iP	00 31 32	<u>Kurile Islands</u> 44.81 N 150.17 E
	ipP	31 49.5	H = 00 19 34.8 h = 45 km MAG=5.2
	LmH	01 08.7	D = 78.35 Az = 334.5 (USCGS)
	LmV	09.3	PV:1.6s 91.0nm LmH:17s 2.7/um LmV:20.5s 3.2/um MPV=5.6 MLH=5.7 MLV=5.7
21.	e(P)	02 42 16	<u>Hokkaido, Japan</u> 41.52 N 142.54 E H = 02 30 05.1 h = 27 km MAG=4.8 D = 78.69 Az = 330.6 (USCGS)
21.	eiP	04 06 39	<u>Southeastern Usbek SSR</u> 38.92 N 65.16 E
	e	08 03	H = 03 59 11.5 h = 13 km MAG=5.4 D = 38.96 Az = 305.5 (USCGS) PV:1.4s 27.6nm MPV=4.7
21.	+iP	04 23 29.5	<u>Hokkaido, Japan</u> 41.10 N 143.50 E
	ePoP	23 35	H = 04 11 24.7 h = normal MAG=5.5
	eS	33 26	D = 79.42 Az = 331.2 (USCGS)
	LmV	05 02	PV:1.4s 27.6nm
	LmH	02.2	LmH:18s 2.2/um LmV:18s 2.0/um MPV=5.1 MLH=5.6 MLV=5.5
21.	+iP	08 31 59	<u>Kurile Islands</u> 44.91 N 150.15 E
	eS	C 41 50	H = 08 20 00.9 h = normal MAG=5.7
	LmH	09 05.8	D = 78.26 Az = 334.5 (USCGS)
	LmV	09.7	PV(A):1.6s 363.0nm PV(B):2.31/um SH(C):32s 5.0/um LmH:20s 15.1/um LmV:20s 13.3/um MPV(A)=6.2 MPV(B)=6.5 MSH(C)=6.1 MLH=6.3 MLV=6.3

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Day	Phase	h m s	Remarks
21.	eP	10 24 28	<u>Kurile Islands</u> 45.08 N 149.93 E H = 10 12 30.9 h = 30 km MAG=3.9 D = 78.03 Az = 334.4 (USCGS)
21.	eP eipP eS LmH LmV	11 12 43.5 12 51 22 44 49.9 51.5	<u>Kurile Islands</u> 44.74 N 150.22 E H = 11 00 44.6 h = normal MAG=5.1 D = 78.43 Az = 334.6 (USCGS) PV:1.8s 123.0nm LmH:14.5s 2.7/um LmV:15s 3.4/um MPV=5.7 MLH=5.7 MLV=5.8
21.	+iP eipP isP	11 15 53 16 05 16 06.6	<u>Kurile Islands</u> 45.04 N 150.09 E H = 11 03 57.5 h = 48 km MAG=4.9 D = 78.12 Az = 334.4 (USCGS) PV:1.5s 94.0nm MPV=5.7
21.	eP	13 20 38	<u>Kurile Islands</u> 44.67 N 150.03 E H = 13 08 39.7 h = 40 km MAG=4.2 D = 78.44 Az = 334.4 (USCGS) PV:1.8s 20.4nm MPV=4.9
21.	eP ePcP e LmH LmV	15 22 16 22 24 23 25 55.7 59.7	<u>Hokkaido, Japan</u> 41.47 N 142.86 E H = 15 10 13.4 h = 26 km MAG=5.0 D = 78.86 Az = 330.8 (USCGS) LmH:17.5s 0.9/um LmV:18s 0.7/um MLH=5.2 MLV=5.0
21.	eP epP esP LmH LmV	15 40 03 40 15 40 18 16 18.8 18.8	<u>Hokkaido, Japan</u> 41.15 N 143.44 E H = 15 27 59.1 h = normal MAG=5.2 D = 79.35 Az = 331.1 (USCGS) LmH:17s 0.7/um LmV:19s 0.7/um MLH=5.1 MLV=5.1
21.	iP iPcP LmH LmV	18 59 27.5 59 40 19 36.0 41	<u>Kurile Islands</u> 44.83 N 150.32 E H = 18 47 30.4 h = 51 km MAG=5.2 D = 78.38 Az = 334.6 LmH:18s 1.5/um LmV:16s 2.2/um MLH=5.4 MLV=5.6

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Day	Phase	h m s	Remarks
22.	eP ePcP	05 39 16 39 29	<u>Kurile Islands</u> 44.62 N 150.67 E H = 05 27 18.6 h = 45 km MAG=4.5 D = 78.67 Az = 334.8 (USCGS)
22.	-eP eipPcP eipP eisP eS eSoS LmH LmV	11 03 53 03 58.8 04 06 04 10.5 13 50 14 08 41.0 42.6	<u>Hokkaido, Japan</u> 41.51 N 142.76 E H = 10 51 53.3 h = 40 km MAG=5.9 D = 78.79 Az = 330.7 (USCGS) SH:9.5s 0.5/um LmH:16s 3.8/um LmV:16s 3.4/um MSH=5.5 MLH=5.8 MLV=5.8 ei 04 15
22.	eP	13 34 07	<u>Nevada</u> 38.58 N 116.19 W H = 13 21 55.7 h = 13 km MAG=5.1 D = 80.04 Az = 30.7 (USCGS) PV: 1.8s 15.3nm MPV=4.6
22.	eP	14 06 22	<u>Morocco</u> 34.90 N 4.35 W H = 14 01 57.3 h = 64 km MAG=4.0 D = 19.56 Az = 31.5 (USCGS)
22.	e(pP) e	15 02 20 02 30	<u>Hokkaido, Japan</u> 41.43 N 142.94 E H = 14 50 07.8 h = 40 km MAG=4.7 D = 78.92 Az = 330.8 (USCGS)
22.	eP LmH LmV	16 01 28.5 40.0 40.0	<u>Hokkaido, Japan</u> 41.15 N 143.00 E H = 15 49 25.9 h = 31 km MAG=4.9 D = 79.18 Az = 330.9 (USCGS) PV:1.3s 11.1nm LmH:18s 0.3/um LmV:19s 0.4/um MPV=4.7 MLH=4.7 MLV=4.8
22.	eP epP esP LmH LmV	18 48 16 48 18 48 23 19 25.4 30.0	<u>Kurile Islands</u> 44.53 N 150.26 E H = 18 36 16.4 h = 35 km MAG=5.0 D = 78.63 Az = 334.6 (USCGS) LmH:20s 0.7/um LmV:16s 0.8/um MLH=5.0 MLV=5.2

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Day	Phase	h m s	Remarks
22.	eP	19 41 30	<u>Near East Coast of Honshu, Japan</u>
	ePcP	41 42.5	40.24 N 142.26 E
	ePP	44 30	H = 19 29 25.7 h = 40 km MAG=5.3
	eS	51 28	D = 79.71 Az = 330.6 (USCGS)
	LmH	20 21.4	PV:1.6s 72.0nm
	LmV	21.5	LmH:17s 6.6 $\mu$ m LmV:19s 8.0 $\mu$ m MPV=5.5 MLH=6.0 MLV=6.1
22.	eP	20 13 10.5	<u>Kurile Islands</u> 44.83 N 150.21 E
			H = 20 01 13.3 h = 46 km MAG=5.3 D = 78.35 Az = 334.5 (USCGS) PV:1.8s 51.0nm MPV=5.3
22.	eP	22 44 05	<u>South of Honshu, Japan</u> 31.49 N 139.85 E
			H = 22 31 23.3 h = normal MAG=4.8 D = 86.33 Az = 329.9 (USCGS)
22.	eP e	23 30 50 31 04.5	<u>Hokkaido, Japan</u> 42.17 N 141.38 E
			H = 23 18 43.8 h = 26 km MAG=4.5 D = 77.70 Az = 329.9 (USCGS)
23.	eP	07 54 25	<u>Kurile Islands</u> 44.69 N 150.48 E
	esP	54 37.5	H = 07 42 28.2 h = 50 km MAG=4.9
	LmH	C 08 31.5	D = 78.55 Az = 334.7
	LmV	C 36.0	PV:1.5s 20.2nm LmH(C):21s 0.3 $\mu$ m LmV(C):19s 0.8 $\mu$ m MPV=5.0 MLH(C)=4.6 MLV(C)=5.1
23.	eP	14 37 35.5	<u>Off East Coast of Honshu, Japan</u>
	epP	37 37	40.33 N 143.69 E
	LmH	15 16.6	H = 14 25 27.0 h = normal MAG=4.6
	LmV	20.5	D = 80.15 Az = 331.3 (USCGS) PV:2.0s 53.0nm LmH:15s 1.1 $\mu$ m LmV:15s 0.8 $\mu$ m MPV=5.1 MLH=5.3 MLV=5.2
23.	ePKIKP	17 44 13	<u>South Island, New Zealand</u>
	eisPKP	44 26	41.67 S 171.92 E
	IPKP2	45 10	H = 17 24 15.7 h = 21 km MAG=6.1

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Day	Phase	h m s	Remarks
cont.			
23.	iPP	17 49 09	D = 163.71 Az = 310.1 (USCGS)
	LmV	19 06.2	LmH:20.5s 53.0 $\mu$ m LmV:21s 53.5 $\mu$ m
	LmH	10.0	MLH=7.2
23.	eP	18 44 59	<u>Kurile Islands</u> 44.93 N 150.20 E
	ePcP	45 11.5	H = 18 33 00.9 h = normal MAG=5.1 D = 78.25 Az = 334.5 (USCGS)
23.	ePKP	19 02 52	<u>Kermadec Islands</u> 30.60 S 177.66 W
	ePKP2	03 27	H = 18 43 01.4 h = 70 km MAG=5.6
	esPKP2	03 41	D = 158.80 Az = 343.5 (USCGS)
23.	eP	23 44 01	<u>Ethiopia</u> 14.75 N 40.22 E
			H = 23 36 06.4 h = normal MAG=4.8 D = 42.62 Az = 333.3 (USCGS)
24.	eP	00 08 33	<u>Off East Coast of Honshu, Japan</u>
	ePcP	08 41.5	40.30 N 143.63 E
	LmH	43.0	H = 23d 23 56 24.7 h = 38 km MAG=4.9
	LmV	51.2	D = 80.16 Az = 331.3 (USCGS) LmH:19.5s 1.0 $\mu$ m LmV:13s 0.7 $\mu$ m MLH=5.2 MLV=5.1
24.	ePKP2	04 49 43	<u>Fiji Islands</u> 20.66 S 178.89 W
			H = 04 31 05.7 h = 681 km MAG=4.3 D = 148.95 Az = 347.0 (USCGS) PV:1.2s 15.3nm
24.	eP	06 45 10.5	<u>Svalbard</u> 77.08 N 12.19 E
	epP	45 11	H = 06 39 33.8 h = normal MAG=4.3 D = 26.54 Az = 180.8 (USCGS)
24.	eP	11 28 51	<u>Unimak Islands</u> 53.23 N 163.15 W
			H = 11 17 02.5 h = normal MAG=4.5 D = 76.41 Az = 3.4 (USCGS) PV:0.9s 9.4nm MPV=4.9

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Day	Phase	h m s	Remarks
24.	+eP	14 18 27	<u>Off East Coast of Honshu, Japan</u>
	-eiPP C	21 12	40.93 N 143.03 E
	ePPP C	23 11	H = 14 06 24.2 h = 38 km MAG=5.6
	iS C	28 26	D = 79.39 Az = 330.9 (USCGS)
	LmH	52.5	PV:1.6s 152.0nm SH(C):25s 6.8 $\mu$ m
	LmV	15 27.2	LmH:17.5s 34.4 $\mu$ m LmV:17.5s 37.9 $\mu$ m MPV=5.7 MSH=6.1 MLH=6.9 MLV=6.8
24.	eP	15 22 33.5	<u>Jan Mayen Islands</u> 71.63 N 2.36 W H = 15 17 39.8 h = normal MAG=4.4 D = 21.99 Az = 155.8 (USCGS) PV:1.2s 17.9nm MPV=4.4
	eP diff.	15 57 02	<u>Flores Sea</u> 6.84 S 118.87 E
24.	ei	57 03.5	H = 15 43 54.2 h = 609 km MAG=6.0
	epP	16 00 11.5	D = 106.19 Az = 320.7 (USCGS)
	ei	03 36	
	ePKP2	18 01 47.5	<u>South Islands, New Zealand</u>
24.	e1	01 53.5	41.86 S 171.81 E
	LmV	19 22.0	H = 17 40 54.3 h = 27 km MAG=5.3 (USCGS)
	LmH	24.0	D = 163.8 PV:1.6s 34.1nm LmH:20s 0.4 $\mu$ m LmV:22s 0.4 $\mu$ m MLH=5.1
	ePKIKP	21 17 25	<u>South Islands, New Zealand</u>
24.	-ePKP2	18 21.5	41.82 S 172.04 E
	ePP	22 06	H = 20 57 27.3 h = normal MAG=5.7
	ePPP	26 00	D = 163.87 Az = 309.8 (USCGS)
	LmH	22 21.0	PV2:1.9s 118.0nm
	LmV	25.7	LmH:18s 0.7 $\mu$ m LmV:18s 0.7 $\mu$ m MLH=5.4
	eP	21 46 34	<u>Off East Coast of Honshu, Japan</u>
24.	ePcP	46 44	40.65 N 143.94 E H = 21 34 23 h = 12 km MAG=4.6 D = 79.97 Az = 331 (ISC)

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Day	Phase	h m s	Remarks
24.	eP	21 48 48.5	<u>Komandorsky Islands</u> 54.19 N 169.31 E
	ei	48 52.5	H = 21 37 11.2 h = 5 km MAG=5.3 D = 73.88 Az = 345.4 (USCGS) PV:1.2s 15.3nm MPV=4.9
25.	eP	00 34 39	<u>Turkey</u> 40.82 N 41.98 E
	eS	38 58	H = 00 29 25.9 h = 9 km MAG=4.6
	LmV C	48.3	D = 23.21 Az = 305.3 (USCGS)
25.	LmH	49.5	LmV(C):16s 0.3 $\mu$ m MLV=3.9
	eP	07 11 02	<u>Western Caucasus</u> 44.99 N 38.12 E
25.	e	11 06	H = 07 06 40.4 h = 33 km
	e	16 54	D = 18.62 Az = 297 (ISC) MAG=4.0 (AN USSR)
	e	17 54	e 18 13
25.	+eP	12 05 05	<u>Off East Coast of Honshu, Japan</u>
	e	05 27	40.09 N 143.10 E
	e	07 55	H = 11 52 57.4 h = 37 km MAG=5.2
	eS C	15 08	D = 80.15 Az = 331.0 (USCGS)
	LmH	40.1	PV:1.4s 92.0nm SH(C):20s 1.3 $\mu$ m
	LmV	44.5	LmH:18s 8.2 $\mu$ m LmV:15.5s 4.0 $\mu$ m MPV=5.6 MSH(C)=5.6 MLH=6.1 MLV=5.9
25.	eP	14 31 07	<u>Off East Coast of Honshu, Japan</u>
	e	34 09	40.72 N 143.37 E
	LmH	15 05.0	H = 14 19 01.2 h = 28 km MAG=5.1
	LmV	09.6	D = 79.73 Az = 331 (ISC) LmH:18.5s 1.1 $\mu$ m LmV:20s 1.3 $\mu$ m MLH=5.2 MLV=5.3
26.	eP	05 39 18	<u>Turkey</u> 40.96 N 42.21 E
			H = 05 34 31.2 h = 38 km MAG=4.3 (ISC) D = 23.2
26.	ePKIKP	15 01 58	<u>Balleny Islands</u> 63.34 S 170.71 E
	ePKP2	02 47	H = 14 41 52.4 h = 9 km MAG=5.5
	e	02 53	D = 163.04 Az = 231.2 (USCGS)
	LmH	16 25.2	LmH:19s 1.3 $\mu$ m LmV:18.5s 1.7 $\mu$ m
	LmV	31.0	MLH=5.7

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May 1968			Moxa
Day	Phase	h m s	Remarks
26.	eP esP	17 53 45 54 04	<u>Near East Coast of Honshu, Japan</u> 40.09 N 142.28 E H = 17 41 40.1 h = 49 km MAG=4.6 D = 79.84 Az = 330.6 (USCGS)
26.	ePKP	20 39 19	<u>Fiji Islands</u> 18.52 S 176.13 E H = 20 19 42.8 h = normal MAG=4.9 D = 145.66 Az = 342.5 (USCGS) PV:1.3s 16.7nm
26.	eP epP	23 11 19 11 31.5	<u>Off East Coast of Honshu, Japan</u> 40.72 N 143.22 E H = 22 59 14.2 h = 40 km MAG=4.9 D = 79.64 Az = 331.1 (USCGS) PV1:1.5s 13.4nm PV2:1.4s 18.4nm MPV1=4.7 MPV2=4.9
27.	ePKHKP e e	19 22 31.5 22 41.5 23 03	<u>Tonga Islands</u> 21.27 S 174.48 W H = 19 02 50.0 h = 100 km MAG=4.7 D = 150.29 Az = 352.2 (USCGS)
28.	ePKIKP ePKP2 ePP LmH LmV	09 26 25 27 02.5 30 39 10 59.4 11 01.4	<u>Kermadec Islands</u> 30.91 S 177.81 W H = 09 06 29.9 h = normal MAG=5.5 D = 159.07 Az = 343.0 (USCGS) PV:2.2s 43.9nm LmH:17.5s 1.3 $\mu$ m LmV:18s 2.2 $\mu$ m MLH=5.7
28.	eP diff. e e ePKIKP ePP ePPP eSS LmV LmH	13 42 08 42 11.5 42 14.5 45 53 46 52 49 35 14 03 28 34.2 34.4	<u>Near North Coast of West. New Guinea</u> 2.91 S 139.32 E H = 13 27 18.7 h = 65 km MAG=6.1 (USCGS) D = 115.2 PV:1.3s 16.7nm LmH:26.5s 228.0 $\mu$ m LmV:27.5s 244.0 $\mu$ m MLH=7.7 MLV=7.7

May 1968			Moxa
Day	Phase	h m s	Remarks
28.	+iP eisP iS eSP LmV LmH	22 41 47.0 41 56 51 31 52 06 23 18.6 23.1	<u>Near Islands, Aleutian Islands</u> 52.19 N 172.81 E H = 22 29 56.8 h = 15 km MAG=5.6 D = 76.31 Az = 347.8 (USCGS) PV:1.5s 80.5nm SH:10s 1.0 $\mu$ m LmH:16.5s 2.4 $\mu$ m LmV:19s 2.2 $\mu$ m MPV=5.6 MSH=5.8 MLH=5.6 MLV=5.5
28.	eP	23 12 39	<u>Near East Coast of Honshu, Japan</u> 40.86 N 142.03 E H = 23 00 39.0 h = 60 km MAG=4.5 D = 79.07 Az = 330.4 (USCGS) PV:0.8s 7.1nm MPV=4.8
29.	eP	00 20 13	<u>Near Islands, Aleutian Islands</u> 52.51 N 173.06 E H = 00 08 27.5 h = normal MAG=4.7 (USCGS) D = 76.2 PV:0.8s 7.1nm MPV=4.9
29.	LmH LmV	09 42.0 49.6	<u>Off East Coast of Honshu, Japan</u> 40.28 N 143.54 E H = 08 55 19.8 h = 42 km MAG=4.5 (ISC) D = 80.1 LmH:20.7s 1.1 $\mu$ m LmV:16s 0.6 $\mu$ m MLH=5.2 MLV=5.1
29.	eP	10 16 04	<u>Near East Coast of Honshu, Japan</u> 36.14 N 140.18 E H = 10 03 51.5 h = 89 km MAG=4.8 D = 81.37 Az = 329.6 (USCGS)
29.	ePKP	17 41 01	<u>New Hebrides Islands</u> 18.59 S 169.02 E H = 17 21 52.9 h = 214 km MAG=5.1 D = 143.31 Az = 335.8 (USCGS)
30.	eP epP	01 17 57 18 09	<u>Southern Iran</u> 27.83 N 54.01 E H = 01 10 30.1 h = 27 km MAG=5.2 D = 39.24 Az = 317.3 (USCGS)

May 1968

Moxa

Day	Phase	h m s	Remarks
30.	ePKP2	04 45 51	<u>South Island, New Zealand</u> 41.88 S 171.87 E H = 04 24 58.9 h = 30 km (ISC) D = 86.2 PV:1.2s 20.4nm MPV= 5.2
30.	+iP eiPcP iS LmH LmV	05 35 47 35 57 45 42 06 13.9 17.5	<u>Kurile Islands</u> 44.67 N 150.29 E H = 05 23 48.9 h = 49 km MAG=5.5 D = 78.51 Az = 334.6 (USCGS) PV:1.8s 358.0nm SH:12.5s 1.7 $\mu$ m LmH:20.5s 14.3 $\mu$ m LmV:16s 10.9 $\mu$ m MPV=5.9 MSH=5.9 MLH=6.3 MLV=6.3
30.	eP i eS LmH LmV	17 44 50 45 14 48 22 53.3 53.3	<u>Eastern Mediterranean Sea</u> 35.49 N 27.96 E H = 17 40 24.4 h = 21 km MAG=5.3 D = 19.22 Az = 327.0 (USCGS) SH(C):21s 10.0 $\mu$ m LmH:11.5s 23.1 $\mu$ m LmV:10.5s 22.1 $\mu$ m MSH(C)=5.5 MLH=5.8 MLV=5.9
30.	eP	18 12 25	<u>Minando, Philippine Islands</u> 5.22 N 126.77 E H = 17 58 40.8 h = 90 km MAG=5.1 D = 101.53 Az = 324.0 (USCGS)
30.	eP	18 17 19	<u>Yugoslavia</u> 45.10 N 17.06 E H = 18 15 41.6 h = normal MAG=5.8 D = 6.65
30.	-iP esP LmH LmV	20 00 07 00 14.5 21 24.5 37.6	<u>Southern Iran</u> 29.75 N 51.25 E H = 19 53 06.0 h = 32 km MAG=5.2 D = 36.19 Az = 316.5 (USCGS) PV:1.3s 22.2nm LmH:18.5s 5.2 $\mu$ m LmV:16.8s 7.5 $\mu$ m MPV=4.9 MLH=5.3 MLV=5.6

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May 1968

Moxa

Day	Phase	h m s	Remarks
30.	eP	21 46 51.5	<u>Eastern Mediterranean Sea</u> 35.32 N 28.00 E H = 21 42 27.7 h = 55 km D = 19.38 Az = 327 (ISC) PV:1.0s 14.2nm MPV=4.2
31.	eP	10 18 36	<u>New Hebrides Islands</u> 20.70 S 170.03 E H = 09 59 10.0 h = 97 km MAG=4.8 D = 145.61 Az = 335.5 (USCGS)
31.	ePKP2	15 44 07	<u>Kermadec Islands</u> 31.01 S 177.84 W H = 15 23 26.0 h = normal MAG=4.3 (USCGS) D = 159.1
31.	eP LmH LmV	20 04 00 42.5 42.5	<u>Hokkaido, Japan</u> 41.43 N 142.65 E H = 19 51 58.5 h = normal MAG=4.8 D = 78.81 Az = 330.7 (USCGS) LmH:15s 0.7 $\mu$ m LmV:16s 0.6 $\mu$ m MLH=5.0 MLV=5.1
31.	eP	23 19 24	<u>Azores Islands</u> 36.07 N 31.00 E H = 23 12 43.0 h = normal MAG=4.3

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June 1968

Moxa

Day	Phase	h m s	Remarks
1.	eP ePcP epP eS LmH LmV	10 43 53.5 43 58 44 06.5 53 55 11 20.3 23.8	<u>Near East Coast of Honshu, Japan</u> 40.18 N 142.26 E H = 10 31 49.26 h = 50 km MAG=5.4 D = 79.75 Az = 330.6 (USCGS) PV:1.6s 83.2nm LmH:19.5s 2.8 $\mu$ m LmV:17s 1.7 $\mu$ m MPV=5.7 MLH=5.6 MLV=5.5
1.	ePKP2 LmH C LmV	11 43 06 13 04.9 09.2	<u>Kermadec Islands</u> 30.98 S 177.67 W H = 11 22 35.1 h = normal MAG=4.5 (USCGS) D = 158.1 LmH(C):20s 0.4 $\mu$ m LmV:18s 0.8 $\mu$ m MLH=5.2
2.	ePKP	01 30 00	<u>Fiji Islands</u> 18.47 S 177.71 W H = 01 11 19.4 h = 559 km MAG=4.3 D = 147.05 Az = 349.1 (USCGS)
2.	eP e e ei	01 38 39 38 42 38 47 39 35	<u>Yugoslavia</u> 45.58 N 14.93 E H = 01 37 07.5 h = 0 km D = 5.53 Az = 338 (ISC) ei 40 08
2.	eP	06 40 14.5	<u>Kurile Islands</u> 44.24 N 147.19 E H = 06 28 18.0 h = 31 km MAG=4.9 D = 77.92 Az = 332.9 (USCGS) PV:1.4s 18.4nm MPV=5.0
2.	ePKP	08 37 42	<u>Solomone Islands</u> 8.09 S 158.64 E H = 08 18 36.2 h = 35 km MAG=5.6 D = 129.54 Az = 333.3 (USCGS) PV:1.7s 61.4nm
3.	eP	08 44 22	<u>Near East Coast of Honshu, Japan</u> 35.87 N 141.27 E H = 08 32 00.9 h = 56 km MAG=4.6 D = 83.11 Az = 330.4 (USCGS)

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June 1968

Moxa

Day	Phase	h m s	Remarks
3.	ePKIKP e	09 36 17 38 42	<u>East New Guinea Region</u> 5.45 S 146.95 E H = 09 17 46.2 h = 190 km MAG=5.6 D = 121.57 Az = 328.3 (USCGS) PV:1.1s 12.0nm
3.	eP LmH LmV	10 45 26 54.9 54.9	<u>Eastern Mediterranean Sea</u> 35.40 N 28.08 E H = 10 40 59.7 h = 20 km MAG=4.4 D = 19.35 Az = 327.0 (USCGS) LmH:11s 0.7 $\mu$ m LmV:10.5s 0.9 $\mu$ m MLH=4.2 MLV=4.5
3.	+eP iPcP	14 27 56 28 03	<u>Kurile Islands</u> 45.67 N 148.35 E H = 14 16 20.0 h = 160 km MAG=5.4 D = 77.01 Az = 333.4 (USCGS)
4.	eP	06 56 33	<u>Western Iran</u> 32.69 N 48.28 E H = 06 50 06.6 h = 40 km MAG=5.2 D = 32.31 Az = 314.7 (USCGS)
4.	eP	13 32 33	<u>Bonin Islands</u> 27.64 N 139.72 E H = 13 20 26.7 h = 479 km MAG=4.4 D = 89.58 Az = 329.9 (USCGS) PV:1.2s 10.2nm MPV=4.9
4.	eP e LmH C LmV C	17 27 40 43.5 18 10.5 10.6	<u>Taiwan</u> 22.52 N 121.41 E H = 17 15 09.8 h = 47 km MAG=5.2 D = 84.59 Az = 323.0 (USCGS) PV1:1.0s 11.8nm PV2:1.5s 47.0nm LmH(C):18.5s 1.2 $\mu$ m LmV(C):18s 1.7 $\mu$ m MPV1=5.1 MPV2=5.5 MLH(C)=5.3 MLV(C)=5.5
5.	ePKP	07 38 27	<u>West of Tonga</u> 17.61 S 178.72 W H = 07 19 47.2 h = 516 km MAG=4.0 (ISC) D = 146.0
5.	eP	09 35 17	<u>Hokkaido, Japan</u> 41.26 N 142.53 E H = 09 23 07.3 h = normal MAG=4.8 D = 78.91 Az = 330.6 (USCGS)

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June 1968

Moxa

Day	Phase	h m s	Remarks
5.	eP epP esP	23 17 23.5 17 34.5 17 41	<u>Near Islands, Aleutian Islands</u> 52.20 N 174.28 E H = 23 05 36.8 h = 41 km MAG=5.0 D = 76.49 Az = 348.7 (USCGS) PV:1.3s 22.2nm MPV2=5.1
5.	ePKP	23 23 13	<u>New Hebrides Islands</u> 18.88 S 169.37 E H = 23 04 05.6 h = 215 km MAG=4.6 D = 143.70 Az = 336.0 (USCGS) PV:1.2s 15.3nm
6.	ePKHKP epPKHKP	12 18 21.5 18 37	<u>Tonga Islands</u> 19.72 S 173.39 W H = 11 58 39.4 h = 60 km MAG=4.8 D = 148.89 Az = 353.8 (USCGS)
6.	eP	18 33 24	<u>Near East Coast of Honshu, Japan</u> 40.56 N 142.33 E H = 18 21 25.5 h = 81 km MAG=4.6 D = 79.45 Az = 330.6 (USCGS) PV:1.3s 13.9nm MPV=4.8
6.	eP eSKS eS ePS eSS LmV LmH	19 56 58.5 20 07 24 07 44 08 48 13.8 39.7 40	<u>Luzon, Philippine Islands</u> 14.88 N 119.94 E H = 19 44 07.9 h = 80 km MAG=5.4 D = 89.81 Az = 322.8 (USCGS) LmH:16s 1.7 $\mu$ m LmV:17s 1.7 $\mu$ m MLH=5.6 MLV=5.6
6.	eP epP LmH LmV	21 29 14.5 29 28 22 05.2 08	<u>Hokkaido, Japan</u> 41.32 N 142.58 E H = 21 17 14.4 h = 37 km MAG=5.3 D = 78.89 Az = 330.7 (USCGS) PV:1.5s 47.0nm LmH:19s 1.6 $\mu$ m LmV:16s 1.1 $\mu$ m MPV=5.3 MLH=5.4 MLV=5.3
6.	eP	23 03 53.5	<u>Kurile Islands</u> 44.53 N 148.13 E H = 22 52 00.35 h = 57 km MAG=5.1 D = 77.97 Az = 333.4 (USCGS) PV:1.0s 23.7nm MPV=5.3

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June 1968

Moxa

Day	Phase	h m s	Remarks
7.	e(PKP) e	05 45 41.5 45 56.5	<u>Fiji Islands</u> 16.99 S 176.89 W H = 05 26 20.1 h = 53 km MAG=4.6 D = 145.74 Az = 350.4 (USCGS) PV:0.8s 9.4nm
7.	e(P) e e ei	09 36 21 36 35 36 41.5 36 57	<u>Northern Italy</u> 44.79 N 10.33 E H = 09 34 44.6 h = 19 km MAG=4.1 D = 5.93 Az = 8.0 (USCGS) ei 37 18 1 38 04
7.	ePg e LmV	10 16 35 17 03.5 17 23	<u>Czechoslovakia</u> 50.45 N 13.02 E Explosion of 8 tons H = 10 15 50.45 (PRU) D = 0.92 Az = 283 (ISC)
7.	eP e iPP eiS ePKKP LmV LmH	12 11 29 11 37 15 48 23 08 27 29 13 02.2 06.5	<u>Celebes</u> 1.78 S 120.13 E H = 11 57 29.5 h = 20 km MAG=5.9 D = 103.05 Az = 321.7 (USCGS) LmH:18.5s 28.9 $\mu$ m LmV:20s 27.8 $\mu$ m MLH=6.8 MLV=6.8
7.	ePKHKP	16 49 08	<u>Fiji Islands</u> 20.57 S 178.60 W H = 16 30 26.0 h = 607 km MAG=4.4 D = 148.92 Az = 347.4 (USCGS) PV:1.4s 12.3nm
7.	ePKP e	18 42 20 42 25	<u>Fiji Islands</u> 17.06 S 176.54 W H = 18 22 46.6 h = 72 km MAG=4.6 D = 145.86 Az = 350.7 (USCGS)
7.	eP ePP eSKS ePPS eSS LmH LmV	21 44(55) 49 12 55 25 58 12 22 04 00 30.9 36	<u>Celebes</u> 2.13 S 120.52 E H = 21 30 50.3 h = 23 km MAG=5.5 D = 103.57 Az = 321.7 (USCGS) LmH:25s 10.3 $\mu$ m LmV:22s 3.0 $\mu$ m MLH=6.2 MLV=5.8

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June 1968

Moxa

Day	Phase	h m s	Remarks
8.	ePKIKP esPKIKP e	00 35 49 35 52 37 55	<u>Solomon Islands</u> 8.79 S 157.58 E H = 00 16 39.5 h = normal MAG=5.4 D = 129.69 Az = 332.4 (USCGS)
8.	eiP epP esP LmH LmV	00 48 39.5 48 48 48 54 01 36.2 36.2	<u>North of Franz Josef Land</u> 87.04 N 51.29 E H = 00 41 29.0 h = normal MAG=5.3 D = 37.29 Az = 222.1 (USCGS) PV:1.4s 46.0nm LmH:16s 1.2/um LmV:16s 1.3/um MPV=5.0 MLH=4.8 MLV=4.9
8.	eP eiPcP e ePP LmH LmV	02 56 44.5 56 54 59 39 59 53 03 31 36.2	<u>Off East Coast of Honshu, Japan</u> 40.58 N 143.69 E H = 02 44 37.3 h = normal MAG=4.7 D = 79.94 Az = 331.3 (USCGS) PV:1.2s 17.9nm LmH:17.5s 1.6/um LmV:16s 0.9/um MPV=4.9 LmH=5.4 LmV=5.2
8.	+iP ipP eS LmV LmH	05 41 45 41 55 51 35 06 21.3 21.5	<u>Kurile Islands</u> 43.42 N 147.01 E H = 05 29 46.5 h = 43 km MAG=5.3 D = 78.61 Az = 332.9 (USCGS) PV:2.1s 329nm LmH:16s 2.4/um LmV:17.5s 3.1/um MPV=6.1 MLH=5.6 MLV=5.7
8.	eP	06 19 30	<u>North of Franz Josef Land</u> 86.97 N 50.05 E H = 06 12 19.6 h = normal MAG=4.4 D = 37.19 Az = 220.9 (USCGS) PV:1.3s 13.9nm MPV=4.5
8.	eP	06 43 41	<u>Dodecanese Islands</u> 35.4 N 27.95 E H = 06 39 12.0 h = 0 km D = 19.31 Az = 327 (ISC)

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June 1968

Moxa

Day	Phase	h m s	Remarks
8.	eP e	11 14 11 14 21	<u>Off East Coast of Kamchatka</u> 51.18 N 159.02 E H = 11 02 30.7 h = normal MAG=4.1 D = 74.84 Az = 339.2 (USCGS) PV2:1.2s 12.8nm MPV2=4.8
8.	ePKP esPKP2	13 50 00 50 21	<u>Loyalty Islands</u> 21.77 S 169.79 E H = 13 30 20.3 h = normal D = 146.48 Az = 334.6 (USCGS)
8.	eP	21 00 55	<u>Northeast of Taiwan</u> 26.32 N 124.42 E H = 20 28 44.4 h = 160 km MAG=5.0 D = 83.19 Az = 323.8 (USCGS) PV:1.3s 11.1/um MPV=4.9
8.	eP epP	21 06 46 06 56.5	<u>Hokkaido, Japan</u> 41.47 N 142.28 E H = 20 54 45.2 h = 30 km MAG=5.2 D = 78.64 Az = 330.5 (USCGS) PV:1.2s 15.3nm MPV=5.0
8.	eP epP	21 54 36 54 50	<u>Ryukyu</u> 28.44 N 129.59 E H = 21 42 06.3 h = 33 km MAG=5.2 D = 84.13 Az = 325.6 (USCGS)
8.	eP iPP ePS eiSS LmH LmV	23 37 52 41 58 51 00 56 25 24 19.4 26.7	<u>South of Africa</u> 48.75 S 31.53 E H = 23 24 05.2 h = normal MAG=5.6 D = 100.48 Az = 347.3 (USCGS) LmH:20s 20.3/um LmV:16.5s 13.3/um MLH=6.6 MLV=6.5
9.	eP epP	01 02 10 02 14	<u>Northwest Iran - USSR Border Region</u> 38.95 N 46.03 E H = 00 56 33.9 h = 50 km MAG=5.0 D = 26.83 Az = 307.1 (USCGS) PV:1.5s 50.4nm MPV=5.0

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June 1968

Moxa

Day	Phase	h m s	Remarks
9.	ePKP	02 54 56	<u>Fiji Islands</u> 16.66 S 177.98 W H = 02 36 09.6 h = 521 km MAG=3.8 D = 145.23 Az = 349.3 (USCGS)
9.	eP	04 25(24)	<u>Nicobar Islands</u> 6.44 N 95.22 E H = 04 13 08.3 h = normal MAG=4.2 D = 81.00 Az = 320.2 (USCGS)
9.	e ePKP2	09 13(35) 13 46	<u>Kermadec Islands</u> 30.40 S 177.97 W H = 08 53 10.1 h = 79 km MAG=4.5 (USCGS) D = 158.5
9.	ePKIKP ePKHKP ePKP2	09 36 14.5 36 22 36 33	<u>South of Fiji Islands</u> 24.12 S 178.50 E H = 09 17 31.7 h = 580 km MAG=5.1 D = 151.63 Az = 342.3 (USCGS) PV1:1.6s 15.2nm PV2:1.4s 36.8nm
9.	eP epP LmH LmV	14 00 22 00 30 40.0 40.9	<u>Off East Coast of Honshu, Japan</u> 39.90 N 144.02 E H = 13 48 14.5 h = 67 km MAG=4.4 D = 80.66 Az = 331.5 (USCGS) PV:1.6s 15.2nm LmH:14s 1.1 $\mu$ m LmV:14.5s 0.4 $\mu$ m MPV=4.8 MLH=5.4 MLV=5.0
9.	eP epP	18 11 15.5 11 20	<u>Hokkaido, Japan</u> 41.44 N 142.56 E H = 17 59 13.3 h = 21 km MAG=4.9 D = 78.77 Az = 330.6 (USCGS)
9.	ePKP2 e	22 22 31 22 43.5	<u>Kermadec Islands</u> 31.25 S 177.81 W H = 22 01 57.6 h = normal MAG=5.0 (USCGS) D = 159.2 PV2:1.4s 33.8nm
10.	eP	04 32 54	<u>Kurile Islands</u> 44.22 N 148.73 E H = 04 20 56.2 h = 43 km MAG=4.4 D = 78.44 Az = 333.8 (USCGS)

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June 1968

Moxa

Day	Phase	h m s	Remarks
10.	+eP +ipP eS esS LmH C	12 52 18 53 03.4 13 01 31 02 45 12.8	<u>Alaska Peninsula</u> 56.34 N 161.55 W H = 12 41 05.7 h = 182 km MAG=5.6 D = 73.23 Az = 4.5 (USCGS)
10.	ePKP epPKP2	14 42 16.5 42 30.5	<u>Tonga Islands</u> 16.33 S 173.56 W H = 14 22 42.5 h = 60 km MAG=4.5 D = 145.51 Az = 354.2 (USCGS) PV:1.3s 16.3nm
10.	eP eS LmH LmV	15 16 06 23 31 34.5 34.5	<u>North Atlantic Ridge</u> 22.26 N 44.96 W H = 15 06 57.7 h = normal MAG=4.7 D = 52.02 Az = 42.4 (USCGS) LmH:20s 0.3 $\mu$ m LmV:20s 0.4 $\mu$ m MLH=4.7 MLV=4.9
10.	ePKP2	15 49 53	<u>Kermadec Islands</u> 31.13 S 177.70 W H = 15 29 21.1 h = normal MAG=4.7 (USCGS) D = 159.3 PV:1.4s 9.2nm
11.	+iP e e ePP e	03 13 47.0 14 13 14 20.5 15 19 15 26	<u>Eastern Kazakh SSR</u> 49.84 N 78.16 E Probably underground explosion H = 03 05 57.8 h = 0 km MAG=5.3 D = 41.25 Az = 297.7 (USCGS) PV:0.6s 59.5nm MPV=5.5
11.	eP epP eS ePS	06 04 51 05 41 15 00 16(25)	<u>El Salvador</u> 13.94 N 88.76 W H = 05 52 33.5 h = 199 km MAG=5.3 D = 85.80 Az = 38.9 (USCGS) PV:1.4s 21.5nm MPV=5.2
11.	eP epP ePP	10 37 34.5 37 50 41 40	<u>Southern Sumatra</u> 5.84 S 103.93 E H = 10 24 12.4 h = 60 km MAG=5.4 D = 95.94 Az = 320.2 (USCGS) PV1:1.5s 13.4nm PV2:1.4s 46.0nm PPV $\pm$ 2.0s 46.4nm MPV1=5.2 MPV2=5.8 MPPV=5.6

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June 1968

Moxa

Day	Phase	h m s	Remarks
11.	eP e	17 49 10.5 49 16	<u>Yugoslavia</u> 43.02 N 17.12 E H = 17 47 07.6 h = normal MAG=4.3 D = 8.51 Az = 335.7 (USCGS) PV2:0.6s 19.0nm
11.	eP	18 54 12	<u>Kurile Islands</u> 44.95 N 149.49 E H = 18 42 17.4 h = 40 km MAG=4.5 D = 78.02 Az = 334.1 (USCGS) PV:1.0s 9.5nm MPV=4.9
11.	+eP iPcP LmH C LmV C	22 42 07.5 42 14 23 19.0 19.0	<u>Kurile Islands</u> 45.61 N 150.89 E H = 22 30 15.50 h = 60 km MAG=4.7 D = 77.85 Az = 334.9 (USCGS) PV:1.1s 19.2nm LmH(C):20s 0.2 $\mu$ m LmV(C):22s 0.2 $\mu$ m MPV=5.1 MLH(C)=4.4 MLV(C)=4.4
12.	-iP epP	04 40 00.8 40 14.5	<u>India - East Pakistan Border Region</u> 24.87 N 91.93 E H = 04 29 22.6 h = 44 km MAG=5.3 D = 65.18 Az = 316.3 (USCGS)
12.	eP e eS	09 09 28 09 34.5 13 03	<u>Eastern Mediterranean Sea</u> 35.32 N 27.99 E H = 09 05 04.6 h = normal MAG=4.6 D = 19.38 Az = 327.2 (USCGS)
12.	+iP	13 54 00	<u>Near East Coast of Honshu, Japan</u> 39.49 N 142.74 E H = 13 41 50.7 h = 44 km MAG=6.0 D = 80.54 Az = 330.9 (USCGS)
12.	eP ePcP epP	14 29 38 29 42 29 47	<u>Off East Coast of Honshu, Japan</u> 39.18 N 142.96 E H = 14 17 25.8 h = 32 km MAG=5.2 D = 80.89 Az = 331.0 (USCGS)

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June 1968

Moxa

Day	Phase	h m s	Remarks
12.	iP ePcP epP	14 50 23 50 26 50 33	<u>Near East Coast of Honshu, Japan</u> 39.37 N 142.82 E H = 14 38 11.9 h = 31 km MAG=5.0 D = 80.67 Az = 331.0 (USCGS)
12.	eP	15 04 09	<u>Off East Coast of Honshu, Japan</u> 39.89 N 143.09 E H = 14 51 59.8 h = normal MAG=4.5 D = 80.32 Az = 331.1 (USCGS)
12.	eP	15 21 04	<u>Off East Coast of Honshu, Japan</u> 39.52 N 142.96 E H = 15 08 52.2 h = 28 km MAG=5.1 D = 80.59 Az = 331.0 (USCGS) PV:1.3s 27.8nm MPV=5.1
12.	+eP	15 36 04	<u>Off East Coast of Honshu, Japan</u> 39.39 N 143.10 E H = 15 23 52.5 h = 29 km MAG=5.1 D = 80.76 Az = 331.1 (USCGS)
12.	eP	16 01 11.5	<u>Off East Coast of Honshu, Japan</u> 39.26 N 143.01 E H = 15 48 59.5 h = 30 km MAG=5.1 D = 80.84 Az = 331.1 (USCGS) PV:1.0s 19.0nm MPV=5.1
12.	eP ePcP	16 35 30 35 37	<u>Off East Coast of Honshu, Japan</u> 39.51 N 143.12 E H = 16 23 17.1 h = 21 km MAG=4.7 D = 80.66 Az = 331.1 (USCGS)
12.	eP	16 41 27	<u>Off East Coast of Honshu, Japan</u> 38.99 N 143.51 E H = 16 29 13.3 h = normal MAG=4.3 D = 81.26 Az = 331.3 (USCGS)
12.	eP esP	18 04 14 04 24	<u>Near East Coast of Honshu, Japan</u> 39.15 N 142.91 E H = 17 52 01.2 h = 30 km MAG=5.5 D = 80.90 Az = 331.0 (USCGS)

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Day	Phase	h m s	Remarks
12.	eP	19 01 04.5	<u>Near East Coast of Honshu, Japan</u> 39.36 N 142.84 E H = 18 48 53.4 h = normal MAG=4.7 D = 80.69 Az = 331.0 (USCGS) PV:1.3s 11.1nm MPV=4.7
12.	eP	19 07 58	<u>Off East Coast of Honshu, Japan</u> 39.61 N 143.25 E H = 18 55 46.4 h = 30 km MAG=5.0 D = 80.61 Az = 331.1 (USCGS) PV:1.3s 16.7nm MPV=4.9
12.	eP epP	20 25 25 25 34.5	<u>Off East Coast of Honshu, Japan</u> 39.34 N 143.07 E H = 20 13 14.0 h = normal MAG=4.4 D = 80.79 Az = 331.1 (USCGS)
12.	eP diff.	20 30 14	<u>Western New Guinea Region</u> 0.63 S 132.81 E H = 20 15 44 h = 7 km MAG=5.5 D = 109.76 Az = 325 (ISC)
12.	+e1P iPcP eS	22 09 52.5 10 00 19 54	<u>Near East Coast of Honshu, Japan</u> 39.29 N 142.77 E H = 21 57 41.3 h = 36 km MAG=5.7 D = 80.73 Az = 330.9 (USCGS) PV:1.3s 61.0nm MPV=5.4
12.	eP epP eiPP epPP eSKS eS	23 39 20 40 04 43 00 43 40 49 50 50 08	<u>Mindoro, Philippine Islands</u> 13.82 N 120.68 E H = 23 26 30.8 h = 141 km MAG=5.0 D = 91.09 Az = 323.0 (USCGS) PV2:1.5s 47.0nm MPV2=5.1
13.	eP esP	00 17 12 17 18	<u>Off East Coast of Honshu, Japan</u> 39.49 N 142.97 E H = 00 05 00.7 h = 24 km MAG=5.3 D = 80.63 Az = 331.0 (USCGS)

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Day	Phase	h m s	Remarks
13.	e(P) e	01 55 12 55 19.5	<u>Off East Coast of Honshu, Japan</u> 39.46 N 142.99 E H = 01 42 54.9 h = normal MAG=4.7 D = 80.66 Az = 331.0 (USCGS)
13.	eP ePcP	02 17 55 18 02	<u>Near East Coast of Honshu, Japan</u> 39.45 N 142.81 E H = 02 05 42.8 h = 25 km MAG=5.1 D = 80.60 Az = 331.0 (USCGS) PV:1.0s 19.0nm MPV=5.0
13.	eP	04 03 04.5	<u>Jan Mayen Island</u> 71.17 N 5.57 W H = 03 58 11.5 h = normal MAG=4.6 D = 22.05 Az = 149.9 (USCGS)
13.	eP ePP eSKS eSP eSS LmH LmV	07 47 28 51 24 58 12 08 00 20 05 55 31 34.6	<u>Galapagos Islands</u> 0.29 S 91.46 W H = 07 33 50.5 h = normal MAG=5.3 D = 98.51 Az = 38.8 (USCGS) LmH:17s 0.3 $\mu$ m LmV:16s 0.5 $\mu$ m MLH=4.9 MLV=5.1
13.	eP ePcP	09 00 26.5 00 32.5	<u>Off East Coast of Honshu, Japan</u> 39.07 N 143.24 E H = 08 48 12.8 h = 28 km MAG=4.7 D = 81.09 Az = 331.2 (USCGS) PV:1.5s 13.4nm MPV=4.8
13.	eP ePP eS LmH LmV	12 08 35.5 11 40 18 40 48.2 52.2	<u>Off East Coast of Honshu, Japan</u> 39.19 N 142.96 E H = 11 56 23.4 h = normal MAG=5.3 D = 80.88 Az = 331.0 (USCGS) PV:1.1s 38.5nm LmH:14s 2.4 $\mu$ m LmV:13s 2.0 $\mu$ m MPV=5.4 MLH=5.7 MLV=6.0

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Day	Phase	h m s	Remarks
13.	eP LmH LmV	15 08 27.5 48.0 48.3	<u>Near East Coast of Honshu, Japan</u> 39.45 N 142.89 E H = 14 56 15.1 h = 20 km MAG=5.1 D = 80.63 Az = 331.0 (USCGS) PV:1.4s 24.6nm LmH:14.5s 0.5/um LmV:14s 0.5/um MPV=5.0 MLH=5.0 MLV=5.0
13.	eiP LmH C	15 46 35 16 37	<u>West Pakistan</u> 24.70 N 66.38 E H = 15 37 43.3 h = normal MAG=5.1 D = 49.12 Az = 316.5 (USCGS) LmH(C):22s 0.3/um MLH(C)=4.2
13.	+iP isP eS LmH LmV	21 22 47.5 22 57.5 32 52 22 04 04	<u>Near East Coast of Honshu, Japan</u> 39.39 N 142.92 E H = 21 10 35.4 h = 29 km MAG=5.5 D = 80.70 Az = 331.0 (USCGS) PV1:1.6s 45.5nm PV2:1.9s 212.0nm LmH:16s 4.4/um LmV:17.5s 5.1/um MPV1=5.2 MPV2=5.8 MLH=5.9 MLV=5.9
13.	eP epP esP	23 11 03 11 10 11 18	<u>Southern Iran</u> 29.74 N 51.46 E H = 23 04 00.3 h = normal MAG=5.0 D = 36.32 Az = 316.5 (USCGS)
14.	eP	00 58 20.5	<u>Near East Coast of Honshu, Japan</u> 39.65 N 142.46 E H = 00 46 08.2 h = normal MAG=4.6 D = 80.29 Az = 330.7 (USCGS)
14.	ePKP	03 08 46	<u>Loyalty Islands</u> 21.46 S 170.46 E H = 02 49 14.4 h = 94 km D = 146.46 Az = 335.4 (USCGS) PV:1.0s 7.1nm
14.	eP e e	03 30 29 30 37 30 48.5	<u>Near East Coast of Honshu, Japan</u> 39.35 N 142.85 E H = 03 18 17.3 h = 38 km MAG=5.0

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Day	Phase	h m s	Remarks
cont. 14.	eS eSKS LmH LmV	03 40 32 40 35 04 06 11	D = 80.70 Az = 331.0 (USCGS) LmH:17s 2.5/um LmV:16s 2.1/um MLH=5.6 MLV=5.6
14.	e(P) e	06 17 21 17 26	<u>Near East Coast of Honshu, Japan</u> 39.37 N 142.85 E H = 06 05 03.3 h = normal MAG=4.6 D = 80.69 Az = 331.0 (USCGS)
14,	eP ePP eSKS eSP	10 53 40 57 41 11 04 25 06 30	<u>Galapagos Islands</u> 0.40 S 91.81 W H = 10 39 59.1 h = normal MAG=4.7 D = 98.81 Az = 38.8 (USCGS)
14.	+eiP esP ei e LmH LmV	12 04 51 05 00 05 12 07 43 43.6 44.7	<u>Near East Coast of Honshu, Japan</u> 39.33 N 142.84 E H = 11 52 39.7 h = 37 km MAG=5.4 D = 80.72 Az = 331.0 (USCGS) PV:1.3s 50.0nm LmH:15.5s 1.5/um LmV:15s 1.3/um MPV=5.4 MLH=5.4 MLV=5.4
14.	eP ePoP LmH LmV	12 29 29.5 29 37 13 08.2 12.0	<u>Kurile Islands</u> 45.18 N 153.53 E H = 12 17 27.7 h = 41 km MAG=5.5 D = 79.01 Az = 336.4 (USCGS) PV:1.4s 36.8nm MPV=5.2 LmH:13.5s 0.9/um LmV:16s 0.9/um MLH=5.2 MLV=5.2
14.	ePKP	13 08 35	<u>Samoa Islands</u> 15.75 S 172.94 W H = 12 48 50.4 h = normal MAG=4.8 D = 145.00 Az = 354.9 (USCGS)
14.	eP epP LmH	13 35 14.5 35 27 14 13.9	<u>Off East Coast of Kamchatka</u> 51.71 N 159.33 E H = 13 23 38.6 h = normal MAG=5.0

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Day	Phase	h m s	Remarks
cont. 14.	LmV	14 13.9	D = 74.41 Az = 339.3 (USCGS) PV:1.5s 43.6nm LmH:14s 1.5/um LmV:14s 2.0/um MPV=5.3 MLH=5.4 MLV=5.6
14.	eP	15 30 40	<u>Off East Coast of Kamchatka</u>
	LmH	16 09.5	51.72 N 159.05 E
	LmV	09.5	H = 15 19 03.7 h = normal MAG=4.4 D = 74.34 Az = 339.2 (USCGS) LmH:16s 0.3/um LmV:14.5s 0.5/um MLH=4.7 MLV=5.0
14.	eP	16 37 28	<u>Galapagos Islands</u> 0.19 S 91.37 W
	ePP	41 24	H = 16 23 44.7 h = normal MAG=4.9
	eSKS	48 08	D = 98.37 Az = 38.8 (USCGS)
	eSP	50 22	
	LmH	17 15.1	
	LmV	15.1	
14.	ePKP2	19 24 20	<u>South Islands, New Zealand</u> 41.91 S 171.89 E H = 19 03 27.8 h = 25 km MAG=5.3 (USCGS) D = 163.8 PV:1.6s 30.3nm
14.	eP	22 41 26	<u>Galapagos Islands</u> 0.28 S 91.24 W
	ePP	45 22	H = 22 27 43.8 h = 21 km MAG=5.2
	eSKS	52 10	D = 98.36 Az = 38.9 (USCGS)
	eSP	54 20	LmH:18s 0.5/um LmV:19s 0.7/um
	LmH	23 24.8	MLH=5.1 MLV=5.2
	LmV	24.8	
14.	eP	22 53 32.5	<u>Off East Coast of Kamchatka</u> 51.71 N 159.39 E H = 22 41 50.3 h = 33 km MAG=4.6 D = 74.42 Az = 339.4 (USCGS)

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Day	Phase	h m s	Remarks
14.	eP	23 14 42	<u>Off East Coast of Kamohatka</u>
	ePcP	14 49	51.66 N 159.40 E
	LmV	53.3	H = 23 03 05.2 h = normal MAG=4.9
	LmH	53.4	D = 74.47 Az = 339.4 (USCGS) LmH:13s 0.4/um LmV:14s 0.8/um MLH=4.9 MLV=5.2
14.	ePKP	23 21 02.5	<u>Samoa Islands</u> 15.78 S 172.73 W
	epPKP2	21 13	H = 23 01 27.7 h = normal MAG=5.0 D = 145.05 Az = 355.2 (USCGS)
15.	eP	00 55 20.5	<u>Off East Coast of Kamchatka</u> 51.53 N 159.55 E H = 00 43 43.3 h = normal MAG=4.4 D = 74.63 Az = 339.5 (USCGS)
15.	eP	02 26 24	<u>Near West Coast of Honshu, Japan</u> 37.26 N 138.64 E H = 02 14 08.5 h = 9 km MAG=5.0 D = 80.85 Az = 329.0 (USCGS) PV:1.3s 22.3nm MPV=5.0
15.	eP	03 43 31.5	<u>Near East Coast of Honshu, Japan</u> 39.32 N 142.84 E
	eisP	43 33.8	H = 03 31 18.3 h = 25 km MAG=5.4
	eS	53 35	D = 80.73 Az = 331.0 (USCGS)
	LmH	04 17.5	PV:0.9s 9.4nm sPV:1.3s 27.8nm
	LmV	22.1	LmH:17.5s 1.7/um LmV:17s 0.6/um
15.	eP	05 24 06	<u>Near Coast of Chiapas, Mexico</u> 14.45 N 92.87 W
	ePcP	24 09	H = 05 11 17.2 h = 25 km MAG=5.4 D = 87.89 Az = 38.1 (USCGS) PV:1.3s 11.1nm MPV=5.0
15.	-eIP	06 11 18.8	<u>East China Sea</u> 26.96 N 126.50 E
	+iPcP	11 20.3	H = 05 58 59.0 h = 88 km MAG=5.7
	eS	21 29	D = 83.76 Az = 324.5 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
15.	LmH LmV	06 47.9 55.6	LmH:17s 1.3 $\mu$ m LmV:14s 0.9 $\mu$ m MLH=5.4 MLV=5.3
15.	+eP eiPcP eSKS eiScS ePS eSS LmH LmV	07 21 41 21 42.8 32 10 32 28 33 30 38 20 55.8 55.8	<u>South of Panama</u> 5.60 N 82.57 W H = 07 08 48.1 h = 16 km MAG=6.0 D = 88.37 Az = 39.4 (USCGS) LmH:22s 9.7 $\mu$ m LmV:22.5s 11.2 $\mu$ m MLH=6.1 MLV=6.2
15.	eP	11 29 07.5	<u>Sakhalin Islands</u> 52.12 N 143.61 E H = 11 17 57.9 h = normal MAG=4.6 D = 69.85 Az = 329.7 (USCGS)
15.	+iP LmH LmV	11 39 08.8 12 17.8 17.8	<u>Off East Coast of Kamchatka</u> 51.71 N 159.36 E H = 11 27 32.9 h = 39 km MAG=5.4 D = 74.42 Az = 339.3 (USCGS) PV:1.1s 81.7nm LmH:14s 1.5 $\mu$ m LmV:14.5s 2.2 $\mu$ m MPV=5.7 MLH=5.4 MLV=5.6
15.	eP ePP eSKS ePS LmH LmV	13 28 17 32 12 39 03 41 12 14 11.2 11.5	<u>Galapagos Islands</u> 0.29 S 91.14 W H = 13 14 36.7 h = normal MAG=5.2 D = 98.31 Az = 38.9 (USCGS) LmH:17s 0.6 $\mu$ m LmV:17s 0.8 $\mu$ m MLH=5.2 MLV=5.3
15.	eP e e	13 49 02 49 09 49 34	<u>Southern Alaska</u> 60.97 N 146.88 W H = 13 38 06.5 h = 19 km MAG=4.9 D = 67.41 Az = 14.6 (USCGS)
15.	ePKP epPKP esPKP	13 53 45 53 50 53 55	<u>New Hebrides Islands</u> 18.25 S 167.94 E H = 13 34 14.4 h = 11 km MAG=5.5 D = 142.58 Az = 335.1 (USCGS)

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Day	Phase	h m s	Remarks
15.	eiP ePP	14 12 17.5 15 22.5	<u>Southern Nevada Nuclear Explosion "Rickey"</u> 37°15'54" N 116°18'53" W H = 14 00 00 h = 15 km MAG=5.9 (ISC) D = 81.21 Az = 31 (USAEC) PV:1.2s 91.8nm MPV=5.7
15.	eP e e e e	14 33 44 34 12 35 26.5 35 34.5 35 49	<u>Yugoslavia</u> 42.90 N 18.56 E H = 14 31 32.1 h = normal MAG=4.2 D = 9.10 Az = 330.8 (USCGS) 43.61 N 18.6 E H = 14 31 42 h = 66 km MAG=4.0 D = 8.47 Az = 329 (ISC)
15.	eP ePP eSKS eSP LmH LmV	17 53 58 57 55 18 04 40 06 48 32.5 32.5	<u>Galapagos Islands</u> 0.19 S 91.40 W H = 17 40 17.4 h = normal MAG=5.0 D = 98.39 Az = 38.8 (USCGS) LmH:20s 0.5 $\mu$ m LmV:20s 0.6 $\mu$ m MLH=5.0 MLV=5.1
15.	e(PKP)	19 52 06	<u>Loyalty Islands</u> 21.50 S 169.11 E H = 19 32 07.6 h = 36 km MAG=4.7 D = 145.97 Az = 334.2 (USCGS) PV:1.3s 11.1nm
15.	eP epP LmH LmV	20 05 08 05 22 20 43.0 43.0	<u>Hokkaido, Japan</u> 41.89 N 142.69 E H = 19 53 09.2 h = normal MAG=5.2 D = 78.43 Az = 330.7 (USCGS) PV:1.2s 30.6nm MPV=5.3
15.	eP ePP eSKS ePS LmH LmV	C 21 38 41 42 40 49 22 C 51 40 22 22 22	<u>Galapagos Islands</u> 0.07 S 91.43 W H = 21 25 01.4 h = normal MAG=5.2 D = 98.32 Az = 38.8 (USCGS) LmH:18s 0.3 $\mu$ m LmV:19s 0.4 $\mu$ m MLH=4.8 MLV=4.9

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Day	Phase	h m s	Remarks
16.	eP	00 44 40	<u>Galapagos Islands</u> 0.19 S 91.30 W
	ePoP	44 44	H = 00 31 03.2 h = 30 km MAG=5.0
	ePP C	48 40	D = 98.33 Az = 38.8 (USCGS)
	eSKS	55 32	LmH:20s 0.5 $\mu$ m LmV:20s 0.4 $\mu$ m
	eSP C	57 40	MLH=5.0 MLV=4.9
	LmH	01 23.7	
	LmV	24	
16.	eP C	04 00 42	<u>Galapagos Islands</u> 0.24 S 91.26 W
	ePP C	04 42	H = 03 47 08.3 h = normal MAG=4.9
	eSKS C	11 32	D = 98.34 Az = 38.9 (USCGS)
	eSP C	13 40	LmH:20s 0.4 $\mu$ m LmV:20s 0.5 $\mu$ m
	LmH	39	MLH=4.9 MLV=5.0
	LmV	38	
16.	e(P)	05 09 05	<u>Tristan da Cunha</u> 36.18 S 15.86 W H = 04 55 57.0 h = normal MAG=5.1 D = 89.78 Az = 17.1 (USCGS)
16.	eP	07 26 55	<u>Galapagos Islands</u> 0.17 S 91.25 W
	ePP	30 55	H = 07 13 16.7 h = normal MAG=4.9
	eSKS	37 42	D = 98.28 Az = 38.8 (USCGS)
	ePS	39 49	LmH:18s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m
	LmH	08 09.5	MLH=5.0 MLV=5.0
	LmV	10.5	
16.	eP	08 39 06	<u>Turkey</u> 36.89 N 34.48 E
	ei	39 10.5	H = 08 34 18.6 h = 25 km MAG=4.5 D = 21.37 Az = 317.3 (USCGS) PV:1.5s 27.0nm MPV=4.4
16.	eP	10 25 55	<u>Galapagos Islands</u> 0.30 S 91.31 W
	ePP	29 50	H = 10 12 14.3 h = normal MAG=4.6 (USCGS)
	eSKS C	36 39	D = 98.48 Az = 39 (ISC)
	ePS	38 48	LmH:18s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m
	LmH	11 09.3	MLH=4.9 MLV=5.0
	LmV	09.3	

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Day	Phase	h m s	Remarks
16.	eP	13 06 26	<u>Sicily</u> 37.96 N 14.87 E
	e	06 27	H = 13 03 23.1 h = normal MAG=4.8
	ei	06 37	D = 12.89 Az = 350.7 (USCGS)
	LmH	13 12.2	PV2:1.4s 49.0nm PV3:1.1s 77.0nm
	LmV	12.2	LmH:17s 1.0 $\mu$ m LmV:17s 1.4 $\mu$ m MLH=3.9
16.	eP C	16 33 52	<u>Galapagos Islands</u> 0.42 S 91.37 W
	ePP C	37 52	H = 16 20 14.9 h = normal MAG=4.7
	eSKS C	44 40	D = 98.55 Az = 38.9 (USCGS)
	eSP C	46 46	LmH:21.5s 0.7 $\mu$ m LmV:22s 0.6 $\mu$ m
	LmH	17 12.5	MLH=5.1 MLV=5.1
	LmV	12.5	
16.	ePP	19 32 27	<u>Bouvet Island Region</u> 53.92 S 8.70 E
	ePS C	41 34	H = 19 14 05.3 h = normal MAG=5.7 (USCGS)
	ePPS	42 25	D = 104.3
	eSS	47 10	LmH:20s 3.5 $\mu$ m LmV:19s 3.6 $\mu$ m
	LmH	20 15.2	MLH=5.9 MLV=5.9
	LmV	15.2	
16.	eP	23 24 23	<u>Galapagos Islands</u> 0.62 S 91.82 W
	ePP	28 33	H = 23 10 39.2 h = normal MAG=4.6
	eSKS C	35 05	D = 98.99 Az = 38.8 (USCGS)
	ePS C	37 18	LmH:18s 0.2 $\mu$ m LmV:18s 0.3 $\mu$ m
	LmH	24 07.7	MLH=4.7 MLV=4.9
	LmV	07.7	
17.	eP C	02 28 33	<u>Galapagos Islands</u> 0.74 S 91.83 W
	ePP C	32 30	H = 02 14 48.8 h = normal MAG=4.7
	eSKS C	39 14	D = 99.08 Az = 38.8 (USCGS)
	eSP C	41 25	LmH:20s 0.4 $\mu$ m LmV:21s 0.4 $\mu$ m
	LmH	03 07.5	MLH=4.9 MLV=4.9
	LmV	08	
17.	eP	04 39 04	<u>Taiwan</u> 22.42 N 121.36 E H = 04 26 31.9 h = 39 km MAG=5.1 D = 84.64 Az = 323.0 (USCGS) PV:1.1s 9.6nm MPV=4.9

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Day	Phase	h m s	Remarks
17.	eP ePP eSKS ePS LmH LmV	04 42 03 46 00 52 44 54 55 21.1 22.0	<u>Galapagos Islands</u> 0.25 S 91.49 W H = 04 28 22.0 h = normal MAG=4.5 D = 98.50 Az = 38.8 (USCGS) LmH:16s 1.0 $\mu$ m LmV:18s 1.4 $\mu$ m MLH=5.4 MLV=5.5
17.	eP	05 04 46	<u>Eastern Caucasus</u> 40.88 N 48.20 E H = 04 59 04.7 h = normal MAG=5.0 D = 27.08 Az = 303.5 (USCGS)
17.	eP	08 09 44	<u>Near East Coast of Chiapas, Mexico</u> 14.39 N 92.89 W H = 07 56 56.2 h = normal MAG=4.9 D = 87.94 Az = 38.1 (USCGS) PV:1.5s 13.4nm MPV=5.0
17.	eP e e e	09 31 53 32 07 32 15 32 41.5	<u>Northern Italy</u> 44.1 N 8.5 E H = 09 29 57 h = 0 km D = 6.85 Az = 17 (ISC)
17.	+eP1 IP2 eIPP ePPP IS ISK eSS LmH LmV	12 05 02.5 05 05.5 08 05 09 44 15 00 15 16 20 12 43.8 43.9	<u>Hokkaido, Japan</u> 40.98 N 142.98 E H = 11 53 00.4 h = 48 km MAG=5.7 D = 79.33 Az = 330.9 (USCGS) PV2(A):1.9s 459.0nm PV(B):14s 5.72 $\mu$ m LmH:18.5s 80.2 $\mu$ m LmV:18s 73.6 $\mu$ m MPV2(A)=6.2 MPV(B)=6.4 MLH=7.1 MLV=7.1
17.	eP ePP eSKS ePS LmH LmV	15 08 23 12 20 19 05 21 15 48 48.5	<u>Galapagos Islands</u> 0.34 S 91.25 W H = 14 54 40.8 h = 23 km MAG=4.9 (USCGS) D = 98.54 Az = 39 (ISC) LmH:20s 0.5 $\mu$ m LmV:18s 0.7 $\mu$ m MLH=5.0 MLV=5.2

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Day	Phase	h m s	Remarks
17.	+eP eS LmH LmV	17 08 26.5 18 31 43 50.5	<u>Off East Coast of Honshu, Japan</u> 40.14 N 143.75 E H = 16 56 13.1 h = 6 km MAG=5.2 D = 80.34 Az = 331.4 (USCGS) PV:1.6s 60.7nm LmH:19s 3.6 $\mu$ m LmV:16s 1.8 $\mu$ m MPV=5.3 MLH=5.8 MLV=5.6 e 08 35 e 08 40 e 08 47
17.	ePKIKP ePP e	18 28 54.5 31 32 31 39	<u>Santa Cruz Islands</u> 12.34 S 166.69 E H = 18 09 34.1 h = normal MAG=5.5 D = 136.72 Az = 337.0 (USCGS) PV:1.5s 26.8nm
17.	eP e IS LmH LmV	19 09 46 09 55 19 57 45.7 51.5	<u>Off East Coast of Honshu, Japan</u> 38.67 N 143.62 E H = 18 57 27.5 h = 17 km MAG=4.9 D = 81.59 Az = 331.4 (USCGS) PV1:1.0s 14.2nm PV2:1.8s 51.1nm PV(B):8s 1.4 $\mu$ m LmH:17.5s 23.4 $\mu$ m LmV:16.5s 13.2 $\mu$ m MPV1=5.0 MPV2=5.3 MPV(B)=6.1 MLH=6.6 MLV=6.4
17.	eP ePP eSKS ePS LmH LmV	22 19 22 23 18 30 04 32 16 58.4 58.4	<u>Galapagos Islands</u> 0.35 S 91.14 W H = 22 05 41.6 h = normal MAG=4.6 D = 98.35 Az = 38.9 (USCGS) LmH:19s 0.4 $\mu$ m LmV:20s 0.5 $\mu$ m MLH=5.0 MLV=5.0
18.	eP ePP eSKS eSP LmH LmV	00 22 27 26 24 33 10 35 20 59.5 59.5	<u>Galapagos Islands</u> 0.25 S 91.22 W H = 00 08 46.4 h = normal MAG=4.8 D = 98.32 Az = 38.9 (USCGS) LmH(C):23s 0.4 $\mu$ m LmV(C):24s 0.3 $\mu$ m MLH(C)=4.8 MLV(C)=4.7

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Day	Phase	h m s	Remarks
18.	eP	02 36 20	<u>Galapagos Islands</u> 0.21 S 91.52 W
	ePP	40 19	H = 02 22 45.5 h = normal MAG=4.7
	eSKS	47 10	D = 98.48 Az = 38.8 (USCGS)
	eSP	49(16)	LmH:19s 0.4 $\mu$ m LmV:19s 0.5 $\mu$ m
	LmH	03 20.0	MLH=5.0 MLV=5.0
	LmV	20.0	
18.	ePP	04 10 40	<u>Galapagos Islands</u> 0.51 S 91.45 W
	eSKS	17 24	H = 03 53 00.3 h = normal MAG=4.6 (USCGS)
	eSP	19(38)	D = 98.0
	LmH	50.4	LmH:19s 0.2 $\mu$ m LmV:19s 0.3 $\mu$ m
	LmV	50.4	MLH=4.7 MLV=4.8
18.	eIP	05 28 55	<u>Northern Italy</u> 45.70 N 8.10 E
	i	29 02.3	H = 05 27 33.0 h = 5 km MAG=4.7
	i	29 10	D = 5.48 Az = 24.2 (USCGS)
	eIPg	29 19	PV:0.8s 61.4nm
	ei	30 20	LmH:8.5s 20.6 $\mu$ m LmV:8.8s 23.2 $\mu$ m
	eiSg	30 28	MLH=4.9
	LmH	31.3	
	LmV	31.3	
18.	ePKIKP	07 01 00	<u>Fiji Islands</u> 21.69 S 179.56 W
	iPKHKP	01 06	H = 06 42 21.9 h = 600 km MAG=5.0
	eIPKP2	01 13	D = 149.80 Az = 345.8 (USCGS)
	epPKP2	03 30	PV:1.0s 71.1nm
18.	eP	07 26 42	<u>Galapagos Islands</u> 0.42 S 91.75 W
	ePP	30 36	H = 07 12 59.1 h = normal MAG=4.8
	eSKS	37 20	D = 98.79 Az = 38.8 (USCGS)
	LmH	08 10.0	LmH:19s 0.4 $\mu$ m LmV:19s 0.4 $\mu$ m
	LmV	10.0	MLH=4.9 MLV=5.0
18.	eP	10 43(58)	<u>Galapagos Islands</u> 0.42 S 91.69 W
	ePP	47 50	H = 10 30 14.1 h = normal MAG=4.7
	eSKS	54 25	D = 98.75 Az = 38.8 (USCGS)
	eSP	56(45)	LmH:17s 0.3 $\mu$ m LmV:17s 0.4 $\mu$ m
	LmH	11 27.0	MLH=4.8 MLV=5.0
	LmV	27.0	

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Day	Phase	h m s	Remarks
18.	eP	11 20 04	<u>Greece</u> 38.00 N 23.49 E
			H = 11 16 36.8 h = 119 km MAG=4.3
			D = 15.21 Az = 330.0 (USCGS) PV:1.6s 26.5nm MPV=3.5
18.	eP	12 41 16	<u>Galapagos Islands</u> 0.53 S 91.44 W
	ePP	45 16	H = 12 27 35.5 h = normal MAG=4.7
	eSKS	52 00	D = 98.68 Az = 38.9 (USCGS)
	eSP	54 13	LmH:20s 0.3 $\mu$ m LmV:18s 0.4 $\mu$ m
	LmH	13 20	MLH=4.7 MLV=5.0
	LmV	27.7	
18.	ePP	15 00 11	<u>Galapagos Islands</u> 0.31 S 91.51 W
	eSKS	06 56	H = 14 42 32.7 h = normal MAG=5.0 (USCGS)
	LmH	35.0	D = 98.6
	LmV	35.0	LmH:20s 0.3 $\mu$ m LmV:20s 0.3 $\mu$ m MLH=4.7 MLV=4.7
18.	ePP	16 34 56	<u>Galapagos Islands</u> 0.28 S 91.22 W
	eSKS	41 39	H = 16 17 17.6 h = normal MAG=4.9 (USCGS)
	LmH	17 14.0	D = 98.4
	LmV	14.0	LmH:19s 0.2 $\mu$ m LmV:19s 0.2 $\mu$ m MLH=4.6 MLV=4.7
18.	eP	22 02 30	<u>Galapagos Islands</u> 0.44 S 91.72 W
	ePP	06 26	H = 21 48 48.2 h = normal MAG=5.0 (USCGS)
	eSKS	13 11	D = 98.60 Az = 39 (ISC)
	LmH	45	LmH:18s 0.2 $\mu$ m LmV:18s 0.2 $\mu$ m
	LmV	45	MLH=4.6 MLV=4.7
18.	ePP	23 55 16	<u>Galapagos Islands</u> 0.62 S 91.49 W
	eSKS	24 02 00	H = 23 37 29.6 h = normal MAG=4.5 (USCGS)
	LmH	34.5	D = 98.8
	LmV	34.5	LmH:17s 0.2 $\mu$ m LmV:17s 0.3 $\mu$ m MLH=4.7 MLV=4.9
19.	eP	01 50 28	<u>Near East Coast of Honshu, Japan</u>
	ePP	53 25	39.47 N 142.91 E
	eS	02 00 35	H = 01 38 17.4 h = 33 km MAG=5.3

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Day	Phase	h m s	Remarks
cont.			
19.	LmH LmV	02 29.1 29.7	D = 80.62 Az = 331.0 (USCGS) PV:2.0s 59.6nm LmH:15s 2.4/um LmV:16s 1.6/um MLH=5.7 MLV=5.5
19.	eP	01 59 32.5	<u>Northern Sumatra</u> 1.67 N 100.42 E H = 01 47 01 h = 174 km MAG=4.9 D = 87.96 Az = 320 (ISC) PV:1.4s 24.6nm MPV=5.3
19.	ePP eSKS	04 23 15 30 03	<u>Galapagos Islands</u> 0.18 S 91.24 W H = 04 05 40.1 h = normal MAG=4.7 (USCGS) D = 98.3
19.	eIP ePP	05 13 49.8 15 20	<u>Eastern Kazakh SSR</u> 49.96 N 79.09 E H = 05 05 57.3 h = 0 km MAG=5.5 D = 41.73 Az = 297.9 (USCGS) PV:1.0s 47.4nm MPV=5.3 Probably underground explosion
19.	eP	05 21 46.5	<u>Galapagos Islands</u> 0.29 S 91.03 W H = 05 08 11.5 h = normal MAG=4.7 D = 98.24 Az = 38.9 (USCGS)
19.	eP ePP eSKKS LmH LmV	06 01 24 05(12) 12 07 40.0 40.0	<u>Galapagos Islands</u> 0.45 S 91.72 W H = 05 47 42.7 h = normal MAG=5.1 (USCGS) D = 98.81 Az = 39 (ISC) LmH:22s 0.2/um LmV:22s 0.3/um MLH=4.6 MLV=4.8
19.	eP ePP eSKS LmH LmV	07 44 07 48 06 54 48 08 23.0 23.0	<u>Galapagos Islands</u> 0.50 S 91.67 W H = 07 30 26.8 h = normal MAG=4.9 D = 98.80 Az = 38.8 (USCGS) LmH:20s 0.3/um LmV:20s 0.3/um MLH=4.7 MLV=4.8

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Day	Phase	h m s	Remarks
19.	+eP +IPcP ePP e eSKKS IS eISSP ePKKP ePKPPKP LmV LmH	08 26 49.5 26 50 30 40 33 06 37 28 38 05 44 25 43 47 52 08 09 08.9 09.1	<u>Northern Peru</u> 5.56 S 77.15 W H = 08 13 35.0 h = 28 km MAG=6.4 D = 93.47 Az = 39.6 (USCGS) PV:1.8s 163.0nm LmV:17.5s 6.3/um LmH:19s 5.3/um MPV=6.1 MLV=6.1 MLH=6.0
19.	ePKP2	11 46 22	<u>Kermadec Islands</u> 30.72 S 177.89 W H = 11 25 53.8 h = normal MAG=4.7 (USCGS) D = 158.9
19.	ePP eSKS LmH LmV	12 54 23 13 01 08 34.0 34.0	<u>Galapagos Islands</u> 0.47 S 91.60 W H = 12 36 45.7 h = normal MAG=4.6 (USCGS) D = 98.8 LmH:18s 0.2/um LmV:18s 0.3/um MLH=4.7 MLV=4.8
19.	eSKKS LmH LmV	14 09 00 37.5 37.5	<u>Galapagos Islands</u> 0.5 S 91.5 W H = 13 44 42 h = 99 km MAG=4.6 D = 98.69 Az = 39 (ISC)
19.	eP ePP eSKKKS ePS LmH LmV	15 19 24 23 22 30 08 32 20 58.5 58.5	<u>Galapagos Islands</u> 0.00 91.15 W H = 15 05 47.1 h = normal MAG=5.1 D = 98.1 Az = 38.8 (USCGS) LmH:18s 0.2/um LmV:20s 0.3/um MLH=4.7 MLV=4.7
19.	ePP eSKS LmH LmV	17 05 19 12 04 40.5 40.5	<u>Galapagos Islands</u> 0.15 S 91.74 W H = 16 47 41.7 h = normal MAG=4.7 (USCGS) D = 98.6 LmH:18s 0.2/um LmV:20s 0.3/um MLH=4.7 MLV=4.7

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Day	Phase	h m s	Remarks
19.	eP e	18 15 28.5 16 13	<u>Off East Coast of Honshu, Japan</u> 40.31 N 143.27 E H = 18 03 21.1 h = normal MAG=4.5 D = 80.02 Az = 331.1 (USCGS) PV:1.0s 9.5nm MPV=4.7
19.	eSKS LmH LmV	18 21 03 49.0 49.0	<u>Galapagos Islands</u> 0.11 S 91.20 W H = 17 56 45.7 h = normal MAG=4.5 (USCGS) D = 98.25
19.	eP ePP eSKS LmH LmV	19 33 05 37 08 43 48 20 13.0 13.0	<u>Galapagos Islands</u> 0.39 S 91.52 W H = 19 19 29.7 h = normal MAG=4.8 D = 98.62 Az = 38.8 (USCGS) LmH:20s 0.3/um LmV:20s 0.3/um MLH=4.7 MLV=4.7
19.	eIPKIKP e ePP eSS LmH LmV	20 16 52 17 02 18 16 35 00 21 08.3 08.5	<u>Off Coast of Southern Chile</u> 43.95 S 75.11 W H = 19 58 01.9 h = 24 km MAG=5.7 D = 120.47 Az = 47.5 (USCGS) PV:1.1s 24.0nm LmH:19.5s 0.9/um LmV:19s 1.1/um MLH=5.4 MLV=5.5
19.	eP ePP eSKS LmH LmV	23 45 35 49 30 56 22 24 29.0 29.0	<u>Galapagos Islands</u> 0.17 N 91.15 W H = 23 31 55.3 h = normal MAG=4.9 D = 97.95 Az = 38.8 (USCGS)
20.	eP ePP eSKS LmH LmV	01 46 22 50 22 57 08 02 29.5 29.5	<u>Galapagos Islands</u> 0.48 S 91.51 W H = 01 32 43.9 h = normal MAG=4.8 D = 98.69 Az = 38.8 (USCGS) LmH:18s 0.2/um LmV:18s 0.2/um MLH=4.7 MLV=4.7
20.	eP e(PP)	02 51 53 55 50	<u>Northern Peru</u> 5.59 S 77.33 W H = 02 38 38.4 h = normal MAG=5.8

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Day	Phase	h m s	Remarks
cont. 20.	eSKS eSS LmH LmV	03 02 26 09 20 31.0 31.0	D = 93.61 Az = 39.6 (USCGS) PV:1.6s 75.8nm LmH:19s 0.7/um LmV:20s 1.1/um MPV=5.8 MLH=5.2 MLV=5.3
20.	ePP eSKS LmH LmV	05 13 03 19 48 48.5 48.5	<u>Galapagos Islands</u> 0.29 S 91.66 W H = 04 55 24.6 h = normal MAG=5.0 (USCGS) D = 98.7 LmH:20s 0.3/um LmV:20s 0.3/um MLH=4.7 MLV=4.7
20.	ePP eSKS	07 32 29 39.11	<u>Galapagos Islands</u> 0.26 S 91.47 W H = 07 14 53.6 h = normal MAG=4.8 (USCGS) D = 98.5
20.	eSKS LmV LmH	08 35 00 09 07.5 11	<u>Northern Peru</u> 5.61 S 77.22 W H = 08 11 12.7 h = 48 km MAG=5.2 D = 93.56 Az = 40 (ISC) LmV:17s 0.3/um MLV=4.8
20.	ePP eSKS LmH LmV	09 29 05 35 52 10 08.5 08.5	<u>Galapagos Islands</u> 0.31 S 91.75 W H = 09 11 30.3 h = normal MAG=4.7 (USCGS) D = 98.7 LmH:18s 0.2/um LmV:18s 0.3/um MLH=4.6 MLV=4.8
20.	IP	12 17 35.5	<u>Crete</u> 35.37 N 24.03 E H = 12 13 30.4 h = 43 km MAG=4.6 D = 17.72 Az = 333.3 (USCGS)
20.	ePP eSKS LmH LmV	12 32 03 38 50 13 07.5 07.5	<u>Galapagos Islands</u> 0.02 S 91.63 W H = 12 14 26.1 h = normal MAG=4.7 (USCGS) D = 98.5

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Day	Phase	h m s	Remarks
20.	iPg iSg	16 05 23 05 38	<u>Bransrode/Meißner</u> 51°13.95' N 9°51.54' E yield 19 to (HAN) <u>Germany</u> 51.23 N 9.86 E H = 16 04 58.5 h = 0 D = 1.26 Az = 117 (ISC)
20.	eP ePP eSKKS eSP LmH LmV	16 22 47 26 41 33 32 35 42 48.0 48.0	<u>Galapagos Islands</u> 0.36 S 91.63 W H = 16 09 07.3 h = normal MAG=5.1 D = 98.67 Az = 38.8 (USCGS) LmV:18s 0.2 $\mu$ m MLV=4.7
20.	ePP eSKS eSP LmH LmV	20 53 44 21 00 32 02 48 33.4 33.4	<u>Galapagos Islands</u> 0.18 S 91.58 W H = 20 36 11.7 h = normal MAG=4.9 (USCGS) D = 98.5 LmH:17s 0.3 $\mu$ m LmV:18s 0.3 $\mu$ m MLH=4.8 MLV=4.8
20.	ePP eSKS LmH LmV	23 43 00 49 50 24 22.5 22.5	<u>Galapagos Islands</u> 0.06 S 91.71 W H = 23 25 28.2 h = normal MAG=4.6 (USCGS) D = 98.6 LmV:18s 0.2 $\mu$ m MLV=4.7
21.	eP esP eSKKS eS esS LmH LmV	00 39 26 39 33 50 00 50 36 50 40 01 22.5 24.2	<u>Northern Peru</u> 5.72 S 77.28 W H = 00 26 07.8 h = 22 km MAG=5.6 D = 93.68 Az = 39.6 (USCGS) LmH:17.5s 0.9 $\mu$ m LmV:18s 1.1 $\mu$ m MLH=5.3 MLV=5.4
21.	ePP eSKKS LmH LmV	11 22 14 29 14 12 01.5 01.5	<u>Galapagos Islands</u> 0.14 S 91.62 W H = 11 04 38.2 h = normal MAG=4.8 (USCGS) D = 98.5

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Day	Phase	h m s	Remarks
21.	eP e	17 25 00 25 08	<u>Norwegian Sea</u> 72.22 N 1.03 E H = 17 20 05.9 h = normal MAG=4.2 D = 22.20 Az = 161.9 (USCGS)
21.	eP ePP eSKKS LmH LmV	21 04 46 08 38 15 34 47.5 47.5	<u>Galapagos Islands</u> 0.23 S 91.47 W H = 20 51 08.6 h = normal MAG=5.0 (USCGS) D = 98.5
22.	+iP eipP e ePP eS	01 24 42.5 24 51 27 31 27 46 34 46	<u>Off East Coast of Honshu, Japan</u> 40.29 N 143.68 E H = 01 12 30.9 h = 15 km MAG=5.6 D = 80.19 Az = 331.3 (USCGS) PV:1.6s 159.0nm MPV=5.7
22.	iPKP	08 27 49	<u>Fiji Islands</u> 20.02 S 177.84 W H = 08 08 44.4 h = 415 km MAG=4.5 D = 148.53 Az = 348.4 (USCGS) PV:1.4s 18.4nm
22.	ePP eSKS LmH LmV	10 04 28 11.12 43.5 43.5	<u>Galapagos Islands</u> 0.15 S 91.46 W H = 09 46 50.2 h = normal MAG=4.9 (USCGS) D = 98.4 LmV:20s 0.3 $\mu$ m MLV=4.7
22.	ePn eiPg eSn eSg	12 22 48.5 23 08.5 23 41 23 52	<u>Northern Italy</u> 45.87 N 11.33 E H = 12 21 37.7 h = 35 km MAG=4.6 D = 4.79 Az = 2.2 (USCGS)
22.	ePn	12 39 06	<u>Northern Italy</u> 45.79 N 11.3 E H = 12 37 49 h = 9 km MAG=4.1 D = 4.86 Az = 3 (ISC)

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Day	Phase	h m s	Remarks
22.	eP	16 03 50	<u>Southern Iran</u> 29.63 N 51.48 E H = 15 56 46.6 h = 32 km MAG=4.8 D = 36.41 Az = 316.6 (USCGS)
22.	ePKP	21 19 34	<u>Fiji Islands</u> 17.93 S 178.13 W H = 21 01 02.5 h = 650 km MAG=4.6 D = 146.45 Az = 348.8 (USCGS)
23.	ePP eSKKS LmH LmV	04 01 00 07 50 40.0 40.0	<u>Galapagos Islands</u> 0.23 S 91.53 W H = 03 43 25.4 h = normal MAG=4.8 (USCGS) D = 98.5
23.	eP	05 09(50)	<u>Hokkaido, Japan</u> 41.59 N 143.39 E H = 04 57 52.2 h = 45 km MAG=4.2 D = 78.9 Az = 331.1 (USCGS)
23.	eP LmH LmV	05 32 49 06 11.6 13.5	<u>Off East Coast of Honshu, Japan</u> 39.14 N 142.99 E H = 05 20 38.0 h = 45 km MAG=4.3 D = 80.94 Az = 331.1 (USCGS) LmH:16s 0.5/um LmV:16s 0.4/um MLH=5.0 MLV=4.9
23.	eP ePP eS LmH LmV	09 23 18 24 54 29 00 41.3 41.3	<u>Southern Iran</u> 29.81 N 51.16 E H = 09 16 18.6 h = 34 km MAG=5.2 D = 36.09 Az = 316.5 (USCGS) PV:1.2s 35.8nm LmH:17s 1.9/um LmV:17s 1.5/um MPV=5.1 MLH=4.9 MLV=4.9
23.	eP	15 13 19	<u>Kodiak Islands</u> 56.81 N 152.17 W H = 15 01 56.0 h = 35 km MAG=4.4 D = 72.07 Az = 10.8 (USCGS) PV:1.0s 9.5nm MPV=4.9
23.	+iP esP	17 05 14.5 05 22.5	<u>Kodiak Islands</u> 56.72 N 152.43 W H = 16 53 50.2 h = normal MAG=4.9

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Day	Phase	h m s	Remarks
cont.			
23.	eS LmH LmV	17 14 39 41.4 44.7	D = 72.2 Az = 10.6 (USCGS) PV:1.5s 53.8nm LmH:19.5s 1.5/um LmV:16s 1.5/um MPV=5.5 MLH=5.3 MLV=5.4
24.	eP e e LmH LmV	09 55 52 10 02 16 04 16 26.0 27.3	<u>Crete</u> 34.34 N 25.22 E H = 09 51 32 h = 40 km MAG=4.3 D = 19.08 Az = 333 (ISC) LmH(C):15.5s 0.5/um LmV:8s 0.3/um MLH=3.9 MLV=4.1
24.	eP epP esP eS LmH LmV	20 22 04.5 22 09 22 15 30 00 45.9 47.7	<u>North of Ascension Islands</u> 1.59 S 15.74 W H = 20 12 19.8 h = normal MAG=4.9 D = 57.04 Az = 20.4 (USCGS) LmH(C):16s 0.3/um LmV(C):18s 0.4/um MLH=4.5 MLV=4.6
25.	eP epP esP LmH LmV	06 56 08 56 15 56 21 07 21.5 21.9	<u>North of Ascension Islands</u> 0.70 S 15.95 W H = 06 46 28.7 h = normal MAG=4.9 D = 56.29 Az = 20.7 (USCGS) LmH:20s 0.2/um LmV:16s 0.3/um MLH=4.3 MLV=4.5
25.	eP ePP eS LmH LmV	23 45 32.3 48 36.3 55 38.3 24 20.4 24.7	<u>Off East Coast of Honshu, Japan</u> 39.58 N 143.43 E H = 23 33 18.0 h = 16 km MAG=5.3 D = 80.72 Az = 331.3 (USCGS) PV:1.5s 40.3nm LmH:18s 2.5/um LmV:17s 1.7/um MPV=5.2 MLH=5.6 MLV=5.5
26.	eP eS eSS LmV LmH	01 54 41 02 04 53 10 14 33.3 33.4	<u>Near Coast of Northern California</u> 40.10 N 124.36 W H = 01 42 19.5 h = 10 km MAG=5.5 D = 81.74 Az = 26.6 (USCGS) PV:1.6s 30.3nm LmH:16.5s 3.0/um LmV:17s 3.2/um MPV=5.2 MLH=5.7 MLV=5.8

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Day	Phase	h m s	Remarks
26.	eP e	02 01 18.4 01 45	<u>Southern Iran</u> 29.84 N 51.08 E H = 01 54 15.3 h = normal MAG=4.9 D = 36.02 Az = 316.5 (USCGS)
26.	ePKP	08 49 03.5	<u>South of Australia</u> 50.25 S 135.15 E H = 08 29 29.7 h = normal MAG=5.0 D = 144.79 Az = 293.0 (USCGS)
26.	eIP eSKS ePS LmH LmV	10 35 46.5 46 00 46 26 11 14.0 14.0	<u>Hokkaido, Japan</u> 42.05 N 142.66 E H = 10 23 48.2 h = normal MAG=5.5 D = 78.27 Az = 330.6 (USCGS) PV:1.5s 97.4nm LmH:15s 1.7 $\mu$ m LmV:18s 2.0 $\mu$ m MPV=5.7 MLH=5.5 MLV=5.5
26.	ePKIKP lPKHKP lPKP2 epPKP2 esPKP2 LmH C LmV C	16 00 01 00 04.0 00 09 00 37 00 59 52.3 52.5	<u>Loyalty Islands</u> 22.16 S 171.36 E H = 15 40 31.1 h = 90 km MAG=5.6 D = 147.44 Az = 335.8 (USCGS) PV2:1.7s 176.0nm LmH(C):45s 1.4 $\mu$ m LmV(C):45s 1.3 $\mu$ m MLH=5.3 (MLV=5.4)
27.	ePKIKP -ePKHKP ePKP2 eI epPKP	02 21 16.5 21 22.5 21 29 21 52 23 37	<u>Fiji Islands</u> 20.81 S 178.96 W H = 02 02 40.2 h = 605 km MAG=4.9 D = 149.07 Az = 346.9 (USCGS)
27.	eP	06 32 19	<u>Lake Baikal Region</u> 54.7 N 111.1 E H = 06 22 45.9 h = 33 km MAG=4.4 D = 55.44 Az = 310 (ISC) PV:0.8s 11.8nm MPV=5.0
27.	eP eSg LmH LmV	15 45 19 46 30 46.8 47.0	<u>Switzerland</u> 46.32 N 6.96 E H = 15 43 00.3 h = 20 km MAG=4.1 D = 5.32 Az = 33.9 (USCGS) LmH:10s 0.8 $\mu$ m LmV:8s 0.7 $\mu$ m MLH=3.4

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Day	Phase	h m s	Remarks
27.	eP eS	15 57 07 58 15	<u>Switzerland</u> 46.3 N 6.8 E H = 15 55 27 (BCIS) D = 5.40 Az = 35 (ISC)
27.	eP eS LmH LmV	16 26 01 27 11 27.6 27.7	<u>Switzerland</u> 46.3 N 6.6 E H = 16 24 24 h = 0 km D = 5.48 Az = 36 (ISC) LmH:8s 0.4 $\mu$ m LmV:8s 0.3 $\mu$ m MLH=3.2
27.	eP	17 24 14.5	<u>Near East Coast of Honshu, Japan</u> 40.25 N 142.29 E H = 17 11 56.0 h = 38 km MAG=4.4 D = 79.70 Az = 330.6 (USCGS)
28.	eP	12 34 18.5	<u>Southern Nevada, Nuclear Explosion</u> "Chateaugay" 37 <sup>o</sup> 14'44" N 116 <sup>o</sup> 28'58" W H = 12 22 00 (USAEC) 37.18 N 116.48 W h = 15 km MAG=5.3 D = 81.31 Az = 30 (ISC) PV:1.2s 17.9nm MPV=5.0
29.	eP	06 34 23.5	<u>Near Coast of Guatemala</u> 13.61 N 90.22 W H = 06 21 48.1 h = 97 km MAG=4.7 D = 86.95 Az = 38.6 (USCGS) PV:1.2s 10.2nm MPV=4.9
29.	eP	11 57 38.5	<u>Republic of the Congo</u> 0.89 S 29.09 E H = 11 48 19.5 h = normal MAG=4.9 D = 53.47 Az = 346.8 (USCGS)
29.	eP esP eSoS C LmV LmH	19 25 00 25 06 35 40 20 05.8 06.0	<u>Southern California</u> 34.29 N 119.68 W H = 19 12 20.2 h = 2 km MAG=5.0 D = 85.14 Az = 28.7 (USCGS) LmH:16s 0.3 $\mu$ m LmV:16s 0.3 $\mu$ m MLH=4.7 MLV=4.7

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Day	Phase	h m s	Remarks
30.	eP	09 49(35)	<u>Mariana Islands</u> 12.96 N 145.23 E H = 09 35 29.4 h = 38 km MAG=5.2 D = 104.85 Az = 331.5 (USCGS) LmH:16.5s 1.6 $\mu$ m LmV:20s 1.1 $\mu$ m MLH=5.6 MLV=5.4 e 53 07 e 03 15
	epP	49 45	
	ePP	53 51	
	eSKS	10 00 14	
	eS	01 20	
	ePS	03 08	
	eSS	09 12	
	LmH	37.2	
	LmV	39.0	
	30.	ePKP	
ePKP2		03 56.5	
30.	ePKP	14 07 14	<u>New Hebrides</u> 20.45 S 169.1 E H = 13 47 38.1 h = 0 km D = 145.02 Az = 335 (ISC) PV:1.1s 12.0nm
30.	eIP	15 00 53	<u>Near East Coast of Honshu, Japan</u> 38.85 N 142.74 E H = 14 48 35.9 h = 10 km MAG=4.8 D = 81.10 Az = 331.0 (USCGS) PV:1.3s 16.7nm LmH:18s 1.0 $\mu$ m LmV:15s 0.8 $\mu$ m MPV=4.9 MLH=5.2 MLV=5.2
	esP	01 09.5	
	LmH	34.9	
	LmV	42.9	
30.	ePKP	19 56 56	<u>Fiji Islands</u> 18.59 S 177.92 W H = 19 38 18.6 h = 605 km MAG=4.2 D = 147.13 Az = 348.8 (USCGS) PV:1.2s 10.2nm
30.	ePP	20 38 22	<u>Off Coast of Jalisco, Mexico</u> 17.90 N 105.73 W H = 20 21 28.4 h = 40 km MAG=4.8 (ISC) D = 92.4 LmH:16s 1.2 $\mu$ m LmV:16s 1.4 $\mu$ m MLH=5.4 MLV=5.5
	eSKS	C 45 14	
	ePS	C 46 52	
	eSS	C 51 50	
	LmH	21 16.2	
	LmV	20.0	

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Day	Phase	h m s	Remarks
1.	+eIP	04 07 11	<u>Western Kazakh SSR</u> 47.92 N 47.95 E H = 04 02 01.1 h = normal MAG=5.5 D = 23.71 Az = 290.3 (USCGS) underground explosion
	i	07 17	
1.	+IP	10 57 27	<u>Honshu, Japan</u> 35.98 N 139.25 E H = 10 45 11.9 h = 67 km MAG=5.9 D = 82.20 Az = 329.4 (USCGS) PV:1.4s 252.0nm LmH:16s 2.8 $\mu$ m LmV:16s 3.7 $\mu$ m MPV=6.0 MLH=5.7 MLV=5.9
	+i	57 42	
	ePP	11 00 36	
	eS	07 37	
	e	08 06	
	ePPS	08 52	
	LmH	41.7	
	LmV	41.8	
1.	eP	12 03 18	<u>Near East Coast of Kamchatka</u> 53.85 N 160.44 E H = 11 51 55.8 h = 65 km MAG=4.3 D = 72.64 Az = 339.8 (USCGS)
2.	eP	03 57 44.5	<u>Guerrero, Mexico</u> 17.64 N 100.27 W H = 03 44 48.9 h = 41 km MAG=5.9 D = 89.66 Az = 36.2 (USCGS) LmH:20.5s 7.8 $\mu$ m LmV:17s 5.0 $\mu$ m MLH=6.1 MLV=6.0
	e	57 47.5	
	ePP	04 01 11	
	i	01 23	
	e	07.0	
	eSKS	08 16	
	eS	08 36	
	LmV	42.7	
2.	ePKIKP	04 50 43	<u>Kermadec Islands</u> 29.71 S 177.93 W H = 04 30 52.7 h = 53 km MAG=5.6 D = 157.89 Az = 343.7 (USCGS)
	e	50 50	
	ePKHKP	50 56	
	ePKP2	51 17	
	e	51 44	

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Day	Phase	h m s	Remarks
2.	eP LmH	16 56 10 17 30.9	<u>Off East Coast of Honshu, Japan</u> 39.65 N 143.60 E H = 16 43 56.4 h = 20 km MAG=4.7 D = 80.72 Az = 331.3 (USCGS) LmH:17s 1.2 $\mu$ m MLH=5.3
2.	e	20 19 08	
2.	eP e e LmH LmV	22 25 03 25 09 25 13 23 01.0 08.5	<u>Ryukyu Islands</u> 26.05 N 128.58 E H = 22 12 25.1 h = normal MAG=5.1 D = 85.58 Az = 325.3 (USCGS) PV:1.8s 40.8nm LmH:19s 1.9 $\mu$ m LmV:14s 1.6 $\mu$ m MPV=5.3 MLH=5.5 MLV=5.6
3.	eP	01 55 25	<u>Off East Coast of Honshu, Japan</u> 39.69 N 143.55 E H = 01 43 13.2 h = normal MAG=4.0 D = 80.67 Az = 331.3 (USCGS)
3.	e e	09 54 08.5 54 50.5	<u>Samoa Islands</u> 16.02 S 172.91 W H = 09 34 22.3 h = 60 km MAG=4.2 D = 145.27 Az = 354.9 (USCGS)
3.	eP e e LmV LmH	10 00 50.5 00 52 04 40 11.4 11.5	<u>North Atlantic Ocean</u> 59.40 N 30.36 W H = 09 55 26.7 h = normal MAG=4.7 D = 25.21 Az = 91.6 (USCGS) PV2:1.3s 25.0nm LmV:16s 1.3 $\mu$ m LmH:16s 1.2 $\mu$ m MPV=4.8 MLV=4.6 MLH=4.5
3.	e	15 14 36	
3.	eP	19 55 22.5	<u>Eastern Kashmir</u> 34.66 N 75.10 E H = 19 46 53.7 h = 113 km MAG=4.5 D = 47.87 Az = 309.8 (USCGS)

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Day	Phase	h m s	Remarks
4.	eP e epP	00 46 29.5 46 34.5 46 55	<u>Near East Coast of Honshu, Japan</u> 34.82 N 139.71 E H = 00 34 13.2 h = 104 km MAG=5.0 D = 83.39 Az = 329.7 (USCGS) PV:1.3s 22.2nm MPV=4.8
4.	eP LmH LmV	02 32 02.5 41.5 41.5	<u>Dodekanese Islands</u> 36.88 N 28.55 E H = 02 27 54.0 h = 108 km MAG=4.4 D = 18.35 Az = 323.9 (USCGS) PV:1.2s 7.7nm MPV=3.9
4.	-iP ei e LmH LmV	07 24 16.5 24 49 28 37 08 03.5 03.5	<u>Kurile Islands</u> 43.88 N 147.21 E H = 07 12 24.2 h = 80 km MAG=5.0 D = 78.24 Az = 332.9 (USCGS) PV:1.0s 71.0nm MPV=5.5
4.	eP AC eP B e A eS B eS C LmH LmV	21 51 30 51 32 51 34.5 54 20 54 25 57.5 58.0	<u>Southern Greece</u> 37.85 N 23.23 E H = 21 47 55.6 h = normal MAG=5.3 D = 15.24 Az = 330.8 (USCGS) LmH:10.5s 38.4 $\mu$ m LmV:11.5s 31.8 $\mu$ m MLH=5.8 MLV=5.9
4.	eP e e e	23 22 16 22 17.5 22 22 22 31.5	<u>Dodekanese Islands</u> 35.38 N 27.92 E H = 23 17 52.9 h = 42 km MAG=4.4 D = 19.29 Az = 327.3 PV2:1.1s 16.8nm MPV=4.9
5.	+eP +ei -i ei e	00 57 56 57 56.5 57 57 58 02 01 01 13	<u>Southern California</u> 34.12 N 119.70 W H = 00 45 17.2 h = 6 km MAG=5.7 D = 85.31 Az = 28.7 (USCGS) PV:1.7s 123.0nm LmH:19s 1.6 $\mu$ m LmV:15s 1.6 $\mu$ m

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Day	Phase	h m s	Remarks
cont.			
5.	ePP e(S) e(PS) LmH LmV	01 01 17 08 40 09 30 33.8 38.8	MPV=5.9 MLH=5.4 MLV=5.5
5.	ePn eSg	08 41 15 42 35	<u>Yugoslavia</u> 46°05' N 14°38' E (Ljubljana) H = 08 39 59 (BCIS) D = 4.8
5.	+eiP -i epP esP ePP ePPP eiS isS iPS LmH LmV	11 40 24.5 40 26.5 40 39 40 44.5 43 25 45 18 50 32 50 52 51 40 12 19.5 19.6	<u>Near East Coast of Honshu, Japan</u> 38.50 N 142.04 E H = 11 28 12.6 h = 43 km MAG=5.9 D = 81.13 Az = 330.6 (USCGS) PV1:1.5s 73.9nm PV2:1.7s 755.0nm LmH:16.5s 20.9 $\mu$ m LmV:16s 23.4 $\mu$ m MPV1=5.5 MPV2=6.5 MLH=6.6 MLV=6.7
6.	eP e LmV LmH	14 14 41 14 44.5 51.4 51.5	<u>Nevada</u> 40.98 N 117.38 W H = 14 02 42.0 h = normal MAG=5.1 D = 78.44 Az = 30.3 (USCGS) LmV:16s 0.3 $\mu$ m MLV=4.8
6.	ePKP ei ei	17 47 48.5 47 51 48 02.5	<u>Kermadec Islands</u> H = 17 27 57 (Uppsala) PV1:1.2s 17.9nm PV2:1.0s 37.9nm
6.	eiPKP e LmH LmV	17 51 26.5 51 30 18 21.4 26.5	<u>Kermadec Islands</u> H = 17 31 20 (Uppsala) PV:1.4s 21.5nm LmH:19.5s 0.6 $\mu$ m LmV:16s 0.4 $\mu$ m

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Day	Phase	h m s	Remarks
6.	eP e	19 47 36 48 34	<u>Aroe Islands</u> 6.35 S 133.83 E H = 19 28 55.3 h = 27 km MAG=5.7 D = 114.97 Az = 323.5 (USCGS) PV:1.0s 16.6nm MPV=5.5
7.	eP e e ei	00 36 46.5 36 49 36 52 36 57.5	<u>Svalbard</u> 76.26 N 10.69 E H = 00 31 17.4 h = normal MAG=4.6 D = 25.71 Az = 178.6 (USCGS)
7.	ePg eSg	00 48 23 49 29	<u>Yugoslavia</u> 46.0 N 15.2 E H = 00 46 40 (BCIS) D = 5.2
7.	eP e e	01 21 24 21 32 21 39	<u>Southern Alaska</u> 61.25 N 147.29 W H = 01 10 29.5 h = 14 km MAG=4.8 D = 67.18 Az = 14.4 (USCGS)
7.	eP e LmH LmV	13 28 27 28 32 14 02.4 07.0	<u>Near East Coast of Honshu, Japan</u> 39.33 N 142.89 E H = 13 16 14.2 h = 24 km MAG=5.1 D = 80.74 Az = 331.0 (USCGS) LmH:16s 0.6 $\mu$ m LmV:16s 0.3 $\mu$ m MLH=5.1 MLV=4.7
7.	ePKIKP B ePKIKP A ei ei LmH LmV	14 43 20 43 23.5 43 36 43 44 15 53.0 59.3	<u>Tonga Islands</u> 22.17 S 175.09 W H = 14 23 33.7 h = normal MAG=5.3 D = 151.10 Az = 351.2 (USCGS) LmH:18s 0.6 $\mu$ m LmV:18s 0.9 $\mu$ m MLH=5.4
7.	eP LmH LmV	17 04 06 53.0 53.2	<u>Mindanao, Philippine Islands</u> 9.82 N 126.17 E H = 16 50 31.0 h = 36 km MAG=4.8 D = 97.48 Az = 324.3 (USCGS) LmH:17s 0.7 $\mu$ m LmV:17s 0.6 $\mu$ m MLH=5.2 MLV=5.2

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Day	Phase	h m s	Remarks
8.	eP e LmV LmH	00 01 24 01 42 43.0 49.3	<u>Northern Peru</u> 5.76 S 77.15 W H = 23 48 08.2 h = 27 km MAG=5.5 D = 93.62 Az = 39.6 (USCGS) LmV:18s 0.7 $\mu$ m LmH:19s 0.7 $\mu$ m PV:1.6s 26.5nm MPV=5.4 MLV=5.2 MLH=5.2
8.	eP e	00 30 44 30 55	<u>Off East Coast of Honshu, Japan</u> 40.75 N 143.19 E H = 00 18 39.5 h = 37 km MAG=4.5 D = 79.60 Az = 331.0 (USCGS) PV:1.1s 9.6nm MPV=4.7
8.	e	04 50 42	
8.	ePKP epPKP	05 16 37 17 46	<u>Tonga Islands</u> 18.19 S 175.49 W H = 04 57 21.6 h = 246 km MAG=4.6 D = 147.13 Az = 351.7 (USCGS)
8.	eP e e e eSg	05 43 10 43 30 43 53 44 07 44 16	<u>Switzerland</u> 46.2 N 7.6 E H = 05 41 34 (BCIS) D = 5.2
8.	ePn e e e e e iSg	05 46 49 46 56 47 06 47 10 47 56 48 12 48 16	<u>Switzerland</u> 46.34 N 7.69 E H = 05 45 35.3 h = normal MAG=4.1 D = 5.04 Az = 29.8 (USCGS)
8.	eP	08 13 50	<u>Hokkaido, Japan</u> 42.54 N 144.46 E H = 08 01 49.1 h = normal MAG=4.6 D = 78.50 Az = 331.6 (USCGS)
8.	e	11 10 14	

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Day	Phase	h m s	Remarks
8.	eP	11 35 05	<u>Southern Iran</u> 27.96 N 56.98 E H = 11 27 23.6 h = normal MAG=4.0 D = 40.95 Az = 316.3 (USCGS)
8.	ePKIKP ePKHKP e ePKP2 epPKP	12 28 06 28 12 28 19 28 21 30 29	<u>South of Fiji Islands</u> 22.24 S 179.76 W H = 12 09 28.4 h = 622 km MAG=4.9 D = 150.28 Az = 345.3 (USCGS) PV1:1.0s 52.2nm PV4:1.0s 42.7 $\mu$ m
8.	eP e ePP	13 22 12 22 21 23 50	<u>Southeastern Uzbek SSR</u> 38.03 N 67.58 E H = 13 14 29.9 h = 28 km MAG=5.2 D = 41.01 Az = 306.5 (USCGS)
8.	ePKP2	16 48 37	<u>South of Fiji Islands</u> 25.34 S 177.43 W H = 16 28 40.5 h = 140 km MAG=4.4 D = 153.79 Az = 346.9 (USCGS)
8.	eP eS LmH LmV	17 22 27 28 09 40.0 41.0	<u>Southern Iran</u> 29.75 N 51.11 E H = 17 15 28.3 h = 44 km MAG=4.9 D = 36.11 Az = 316.6 (USCGS) LmH:17s 0.7 $\mu$ m LmV:17s 0.8 $\mu$ m MLH=4.5 MLV=4.7
8.	eP e eS eS e e ePcS LmH LmV	17 45 24.5 45 27 48 55 49 04 49 08 49 10 53 23 54.0 54.0	<u>Crete</u> 34.42 N 25.19 E H = 17 41 05.8 h = normal MAG=5.3 D = 19.00 Az = 332.7 (USCGS) LmH:14s 4.8 $\mu$ m LmV:15s 6.0 $\mu$ m MLH=5.0 MLV=5.2
8.	eP	18 22 30	<u>Crete</u> 34.31 N 25.20 E H = 18 18 09.8 h = normal MAG=4.3 D = 19.11 Az = 332.8 (USCGS)

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Day	Phase	h m s	Remarks
8.	eP e	18 38 48 38 56	<u>Crete</u> 34.36 N 25.17 E H = 18 34 24.2 h = 14 km MAG=4.3 D = 19.05 Az = 332.8 (USCGS)
8.	eP ei ePP e e LmH LmV	21 37 44 37 55 41 18 41 32 49 12 22 19.0 24.7	<u>Bonin Islands Region</u> 28.82 N 142.49 E H = 21 24 48.3 h = normal MAG=5.3 (USCGS) D = 89.7 LmH:15s 0.7 $\mu$ m LmV:14s 0.5 $\mu$ m MLH=5.2 MLV=5.1
9.	eP e	08 18 18 18 26	<u>Near East Coast of Honshu, Japan</u> 39.46 N 142.79 E H = 08 06 08.2 h = normal MAG=4.4 D = 80.58 Az = 330.9 (USCGS)
9.	e e(PP) LmH LmV	08 40 38 43 34 55.1 58.3	<u>Off East Coast of Honshu, Japan</u> 40.42 N 143.73 E H = 08 28 23.0 h = normal MAG=4.8 D = 80.09 Az = 331.4 (USCGS) LmH:17s 1.3 $\mu$ m LmV:14s 0.7 $\mu$ m MLH=5.3 MLV=5.2
9.	eP	11 51 52	<u>Off East Coast of Honshu, Japan</u> 40.53 N 143.04 E H = 11 39 44.4 h = normal MAG=4.8 D = 79.96 Az = 331.3 (USCGS)
9.	eP LmH LmV	15 05 06.5 12.0 13.7	<u>Crete</u> 34.31 N 25.25 E H = 15 00 43.9 h = 22 km MAG=4.6 D = 19.12 Az = 332.7 (USCGS) PV:0.7s 9.5nm LmV:13s 0.5 $\mu$ m MPV=4.1 MLV=4.1
9.	ePKP	23 35 52	<u>Fiji Islands</u> 18.16 S 178.16 W H = 23 17 21.1 h = 659 km MAG=4.1 D = 146.66 Az = 348.7 (USCGS) PV:1.4s 12.3nm

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Day	Phase	h m s	Remarks
9.	e e	23 42 08 42 20	
10.	eP ePP eS ePS eSS eSSS LmV LmH	11 30 47 35 20 42 45 44 30 49 50 54 10 12 31.0 31.3	<u>Mid-Indian Rise</u> 36.81 S 78.54 E H = 11 16 44.7 h = normal MAG=5.7 (USCGS) D = 104.8 LmV:16s 1.6 $\mu$ m LmH:16s 2.2 $\mu$ m MLV=5.7 MLH=5.8
10.	+eP e ePP ePP e eS ePS LmH LmV	20 52 39 52 55 55 30 55 38 55 54 21 02 42 03 35 27.7 34.3	<u>Off East Coast of Honshu, Japan</u> 40.19 N 143.24 E H = 20 40 31.2 h = normal MAG=5.3 D = 80.12 Az = 331.1 (USCGS) PV:2.0s 172.0nm LmH:18s 4.9 $\mu$ m LmV:15s 2.9 $\mu$ m MPV=5.6 MLH=5.9 MLV=5.8
10.	eP e e	22 33 18 33 25 36 10	<u>Off East Coast of Honshu, Japan</u> 40.31 N 143.17 E H = 22 21 10.5 h = normal MAG=4.7 D = 79.98 Az = 331.1 (USCGS)
11.	ei	10 28 36	
11.	ePKHKP	15 18 08	<u>Tonga Islands Region</u> 22.15 S 175.78 W H = 14 58 23.5 h = 84 km MAG=4.7 (USCGS) D = 150.9
12.	eiP ei +i e ePP iS	00 56 48.5 56 52.5 56 58.5 58 04 59 58 01 06 52	<u>Off East Coast of Honshu, Japan</u> 39.50 N 143.16 E H = 00 44 36.5 h = 28 km MAG=6.0 D = 80.68 Az = 331.1 (USCGS) PV1(B):5s 1.5 $\mu$ m PV1(A):2.0s 219.0nm PV2(A):2.0s 310.0nm

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Day	Phase	h m s	Remarks
cont.			
12.	LmH LmV	01 31.0 40.8	SH(B):15s 4.5/um LmH:18s 27.3/um LmV:17.5s 17.0/um MPV1(B)=6.2 MPV1(A)=5.8 MPV2(A)=6.0 MSH=6.3 MLH=6.6 MLV=6.5
12.	e	01 17 32	
12.	eP e ei e eiS LmH LmV	04 08 39.5 08 41.5 08 53 09 03 18 46 49.6 50.3	<u>Off East Coast of Honshu, Japan</u> 39.52 N 143.17 E H = 03 56 27.5 h = 26 km MAG=5.5 D = 80.67 Az = 331.1 (USCGS) PV:1.9s 118.0nm SH:16.5s 1.1/um LmH:14.5s 7.5/um LmV:14.5s 5.9/um MPV=5.6 MSH=5.5 MLH=6.2 MLV=6.1
12.	ePKP2 epPKP2	11 47 58 50 06	<u>Kermadec Islands</u> 30.78 S 178.95 E H = 11 28 25.2 h = 545 km MAG=4.8 (USCGS) D = 158.0 PV:1.5s 30.2nm
12.	+iP e ePP	12 15 46.5 15 49 17 19	<u>Eastern Kazakh SSR</u> 49.67 N 78.12 E H = 12 07 57.2 h = 0 km MAG=5.4 D = 41.31 Az = 297.8 (USCGS) Underground explosion PV:1.0s 42.7nm MPV=5.1
12.	eP	13 47 56.5	<u>Turkey</u> 38.56 N 41.28 E H = 13 42 40.6 h = normal MAG=4.3 D = 24.16 Az = 309.7 (USCGS)
12.	eP	16 54 53	<u>Near East Coast of Honshu, Japan</u> 39.83 N 142.84 E H = 16 42 45.2 h = 41 km MAG=4.6 D = 80.28 Az = 330.9 (USCGS)

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Day	Phase	h m s	Remarks
12.	+eiP	22 12 57.5	<u>Kurile Islands</u> 48.05 N 154.59 E H = 22 01 08.6 h = normal MAG=5.0 D = 76.66 Az = 336.8 (USCGS) PV:1.2s 28.1nm MPV=5.3
13.	eP	06 16 20.5	<u>Tibet</u> 30.30 N 94.64 E H = 06 05 54.2 h = normal MAG=5.0 D = 63.00 Az = 314.8 (USCGS) PV:1.4s 12.3nm MPV=4.8
13.	iPKIKP LmH LmV	06 57 23.8 07 51.4 51.4	<u>New Britain</u> 6.36 S 149.73 E H = 06 38 26.2 h = 36 km MAG=5.1 D = 123.78 Az = 329.2 (USCGS)
13.	ePKHKP e	23 23 07.5 23 19.5	<u>Tonga Islands</u> 20.80 S 173.88 W H = 23 03 20.1 h = normal MAG=4.9 D = 149.91 Az = 353.0 PV:1.5s 23.5nm
13.	ePKP	23 36 27	<u>Tonga Islands</u> 18.32 S 174.99 W H = 23 17 09.0 h = 230 km MAG=4.7 D = 147.32 Az = 352.2 (USCGS)
14.	ePKP	03 30 28.5	<u>Fiji Islands</u> 15.95 S 176.83 W H = 03 11 34.7 h = 375 km MAG=4.6 D = 144.73 Az = 350.7 (USCGS)
14.	eP	04 08 04	<u>Honduras</u> 15.24 N 88.84 W H = 03 55 25.0 h = 14 km MAG=4.5 D = 84.85 Az = 38.9 (USCGS)
14.	eP	05 36 51	<u>Off East Coast of Honshu, Japan</u> 40.87 N 142.97 E H = 05 24 46.6 h = 39 km MAG=4.5 D = 79.42 Az = 330.9 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
14.	ePKP2	08 16 45.5	<u>Tonga Islands</u> 19.49 S 173.59 W H = 07 57 01.1 h = 86 km MAG=5.1 D = 148.64 Az = 353.6 (USCGS)
14.	eP e	18 23 09.5 23 27.5	<u>Tibet</u> 30.25 N 94.79 E H = 18 12 40.9 h = 22 km MAG=4.9 D = 63.13 Az = 314.9 (USCGS)
15.	eP	00 01 54	<u>Near East Coast of Honshu, Japan</u> 35.44 N 141.14 E H = 23 49 29.9 h = 42 km MAG=4.4 D = 83.44 Az = 330.4 (USCGS)
15.	ePKP	04 31 03.5	<u>Fiji Islands</u> 17.96 S 178.56 W H = 04 12 26.3 h = 585 km MAG=5.3 D = 146.39 Az = 348.3 (USCGS)
15.	e	09 14 54	
15.	ePKHKP e e	10 26 19 27 53 28 30	<u>South of Fiji Islands</u> 23.64 S 179.22 E H = 10 07 27.5 h = 552 km MAG=4.4 D = 151.37 Az = 343.4 (USCGS)
15.	e	13 46 03.5	
16.	e	20 47 25	<u>Crete</u> 34.30 N 26.47 E H = 20 42 52.9 h = 57 km MAG=3.5 D = 19.61 Az = 330.9 (USCGS)
16.	ePKIKP	21 44 44.5	<u>New Hebrides Islands</u> 13.54 S 167.06 E H = 21 25 41.9 h = 215 km MAG=4.4 D = 137.95 Az = 336.7 (USCGS)
16.	eP	22 33 33	<u>Tibet</u> 30.27 N 94.80 E H = 22 23 07.3 h = 40 km MAG=4.8 D = 63.12 Az = 314.9 (USCGS) PV:1.4s 12.3nm MPV=4.0

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Moxa

Day	Phase	h m s	Remarks
17.	e e ePP eSKS ePS e ePPS C e(PPS) B eSS eSSS LmH LmV	05 43 08 43 24 43 32 49 25 53 00 53 23 54 00 54 14 59.0 06 04.1 28.0 39.5	<u>Timor</u> 8.75 S 125.00 E H = 05 24 15.6 h = 25 km MAG=5.7 D = 111.49 Az = 321.1 (USCGS) LmH:22.5s 1.2 $\mu$ m LmV:20s 0.9 $\mu$ m MLH=5.4 MLV=5.3
17.	eP e LmH LmV	06 35 47.2 35 52 07 42.2 44.7	<u>Costa Rica</u> 10.39 N 83.39 W H = 06 23 11.1 h = 19 km MAG=5.1 D = 85.21 Az = 39.5 (USCGS) PV:1.4s 18.4nm LmV:18s 0.5 $\mu$ m MPV=5.1 MLV=5.0
17.	eP	22 36 11	<u>Kodiak Islands</u> 56.33 N 153.96 W H = 22 24 43.3 h = 20 km MAG=4.4 D = 72.73 Az = 9.6 (USCGS)
18.	eP e LmV LmH	01 11 39 11 50 49.4 49.5	<u>Kurile Islands</u> 46.14 N 153.06 E H = 00 59 43.2 h = 43 km MAG=4.9 D = 77.99 Az = 336.1 (USCGS) LmH:16s 0.4 $\mu$ m MLH=4.8
18.	-1PKHKP e e	05 24 20.5 24 22.5 25 16	<u>Tonga Islands</u> 19.47 S 175.91 W H = 05 04 59.8 h = 235 km MAG=5.0 D = 148.33 Az = 350.9 (USCGS) PV:1.2s 25.5nm
18.	eP LmH LmV	11 33 08 12 14.0 16.2	<u>Off East Coast of Honshu, Japan</u> 40.22 N 143.63 E H = 11 20 59.7 h = 37 km MAG=4.5 D = 80.24 Az = 331.3 (USCGS) LmH:14.5s 1.2 $\mu$ m LmV:14s 0.9 $\mu$ m MLH=5.4 MLV=5.3

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Moxa

Day	Phase	h m s	Remarks
18.	e	14 49 24	<u>Central Mid-Atlantic Ridge</u> 9.55 N 40.18 W H = 14 39 21.3 h = normal MAG=4.4 D = 58.97 Az = 35.7 (USCGS)
19.	eP	05 08 23	<u>Nicobar Islands</u> 8.68 N 93.57 E
	e	08 25.5	H = 04 56 27.2 h = normal MAG=5.3
	e	08 34.5	D = 78.24 Az = 319.9 (USCGS)
	e	08 40	PV2:2.0s 46.4nm PV3:1.8s 102.0nm
	ePP	11 31	LmH:18s 2.5 $\mu$ m LmV:19s 3.5 $\mu$ m
	eS	18 15	MPV2=5.3 MPV3=5.6 MLH=5.6 MLV=5.8
	ePS	19 05	
	eSS	23 55	
	LmH	49.0	
	LmV	49.2	
19.	eP	06 19 19.5	<u>Nicobar Islands</u> 8.94 N 93.75 E
	e	19 22	H = 06 07 21.9 h = normal MAG=4.8 D = 78.16 Az = 319.9 (USCGS) PV:1.5s 16.8nm MPV=5.0
19.	eP	18 59 27	<u>Tibet</u> 30.19 N 94.88 E H = 18 48 59.2 h = normal MAG=4.9 D = 63.23 Az = 314.9 (USCGS) PV:1.0s 9.5nm MPV=4.9
20.	ePKHKP	08 43 30	<u>Tonga Islands</u> 20.82 S 174.20 W
	e	43 41	H = 08 23 41.2 h = normal MAG=4.7
	e	43 48	D = 149.88 Az = 352.6 (USCGS)
21.	-ePKHKP	01 48 58.5	<u>Fiji Islands</u> 21.86 S 179.41 W H = 01 30 14.3 h = 600 km MAG=4.6 D = 150.00 Az = 345.9 (USCGS) PV:0.6s 19.1nm

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Moxa

Day	Phase	h m s	Remarks
21.	e1P	01 50 56.5	<u>East of Lake Baikal</u> 55.22 N 113.30 E
	e(S)	58 52	H = 01 41 19.5 h = normal MAG=5.1
	eSS	02 02.5	D = 56.07 Az = 311.3 (USCGS)
	LmH	18.5	PV:0.8s 33.0nm
	LmV	18.5	LmH:12s 1.0 $\mu$ m LmV:13s 1.4 $\mu$ m MPV=5.4 MLH=5.1 MLV=5.3
21.	ePP	06 30 03	<u>New Ireland</u> 3.16 S 150.49 E
	e	30 18	H = 06 09 41.8 h = normal MAG=5.4 D = 121.41 Az = 330.6 (USCGS)
21.	ePKHKP	06 52 26.5	<u>Tonga Islands</u> 20.78 S 173.96 W
	e	52 31	H = 06 32 39.3 h = 52 km MAG=4.9 D = 149.87 Az = 352.9 (USCGS) PV:1.2s 20.4nm
21.	ePKP	10 17 16	<u>Samoa Islands</u> 16.90 S 172.25 W
	e	17 31	H = 09 57 38.8 h = 46 km MAG=4.3 D = 146.19 Az = 355.6 (USCGS) PV:1.4s 15.4nm
21.	eP	17 07 29	<u>Iran</u> 30.09 N 50.85 E H = 17 00 31.9 h = normal D = 35.70 Az = 316.4 (USCGS) PV:1.2s 7.7nm
21.	eP	17 18 28	<u>Eastern Mediterranean Sea</u> 35.0 N 28.5 E H = 17 13 54 h = 0 km (ISC) D = 19.9
21.	ePKHKP	17 48 17	<u>West of Macquarie Island</u>
	ePKP2	48 31	58.14 S 148.32 E
	LmH	18 58.4	H = 17 28 17.6 h = normal MAG=4.9
	LmV	19 00.2	D = 154.09 Az = 272.1 (USCGS) PV:1.6s 22.8nm LmH:19s 0.7 $\mu$ m LmV:19s 1.2 $\mu$ m MLH=5.4

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Moxa

Day	Phase	h m s	Remarks
21.	eP epP e	21 13 06 15 08 15 09.5	<u>Sea of Okhotsk</u> 49.65 N 147.85 E H = 21 02 31.5 h = 576 km MAG=4.9 D = 73.31 Az = 332.6 (USCGS) PV:1.5s 26.8nm MPV=4.6
22.	e LmH LmV	00 25 56 01 00.8 03.8	<u>Hokkaido, Japan</u> 42.28 N 142.33 E H = 00 13 53.0 h = 31 km MAG=4.7 D = 77.96 Az = 330.4 (USCGS) LmV:17.5s 0.4/um MLV=4.9
22.	e(PKP2)	12 12 33	<u>Tonga Islands</u> 20.69 S 174.12 W H = 11 52 40.6 h = normal MAG=4.4 D = 149.77 Az = 352.7 (USCGS)
22.	+1PKP -1pPKP i LmV LmH	18 18 04 18 15 18 27 19 24.0 31.5	<u>New Hebrides Islands</u> 20.07 S 169.05 E H = 17 58 30.3 h = 34 km MAG=5.4 D = 144.66 Az = 335.0 (USCGS) PV:2.4s 1460nm LmV:20s 0.8/um LmH:18.5s 0.5/um MLH=5.3
23.	ePKP	07 23 06	<u>Tonga Islands</u> 17.77 S 174.74 W H = 07 03 37.8 h = 140 km MAG=4.1 D = 146.81 Az = 352.6 (USCGS)
23.	eIP epP LmH LmV	18 21 29.5 21 38 19 23.4 24.8	<u>Off East Coast of Honshu, Japan</u> 39.95 N 143.38 E H = 18 09 18.4 h = 25 km MAG=4.8 D = 80.38 Az = 331.2 (USCGS) PV:1.2s 12.8nm LmH:14.5s 1.5/um LmV:14.5s 1.5/um MPV=4.8 MLH=5.5 MLV=5.5
23.	eP e ePP A ePP B	23 14 46.5 14 53 17 38 17 46	<u>Off East Coast of Honshu, Japan</u> 40.27 N 143.35 E H = 23 02 35.5 h = 14 km MAG=5.2 D = 80.08 Az = 331.2 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
cont. 23.	eS LmH LmV	23 24 46 51.7 56.0	PV:2.6s 314.0nm LmH:17s 7.0/um LmV:17s 4.9/um MPV=5.8 MLH=6.1 MLV=5.9
24.	+1PKP LmH LmV	20 40 23 21 05.7 05.8	<u>Tonga Islands</u> 15.43 S 173.22 W H = 20 20 55.3 h = 84 km MAG=5.3 D = 144.66 Az = 354.7 (USCGS) PV:1.5s 107.0nm
24.	eP	20 59 48	<u>Greece</u> 38.41 N 22.24 E H = 20 56 24.1 h = 66 km MAG=4.3 D = 14.37 Az = 331.8 (USCGS)
25.	eP	03 44 40	<u>Tibet</u> 30.24 N 94.81 E H = 03 04 12.7 h = normal MAG=4.8 D = 63.14 Az = 314.9 (USCGS) PV:1.3s 8.4nm MPV=4.7
25.	eIPKHKP e	07 01 16 01 19	<u>Tonga Islands</u> 21.34 S 174.50 W H = 06 41 27.0 h = normal MAG=5.1 D = 150.36 Az = 352.1 (USCGS) PV:1.0s 23.7nm
25.	+1PKIKP i(PKHKP) IPKP2 ePP A +1PP B ePS eSPP LmH LmV	07 42 59.5 43 12 43 36 47 12.5 47 14.5 57 28 08 00 24 09.2 17.3	<u>Kermadec Islands</u> 30.77 S 178.35 W H = 07 23 07.8 h = 60 km MAG=6.4 D = 158.79 Az = 342.3 (USCGS) LmH:20s 35.6/um LmV:19.5s 49.1/um MLH=7.1
25.	eP	09 49 40	<u>North Atlantic Ridge</u> 51.02 N 30.67 W H = 09 44 08.2 h = normal MAG=4.4 D = 26.08 Az = 74.4 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
25.	iP i LmV LmH	11 02 21.5 02 30.5 39.4 40.4	<u>Kurile Islands</u> 45.75 N 146.73 E H = 10 50 31.5 h = 16 km MAG=5.9 D = 76.43 Az = 332.5 (USCGS) PV:1.6s 75.6nm LmV:15.5s 3.0/um LmH:13.5s 4.5/um MPV=5.6 MLV=5.8 MLH=5.9
25.	eP e	22 08 11 08 17	<u>Greece - Albania Border</u> 40.94 N 19.95 E H = 22 05 28.8 h = 22 km MAG=4.5 D = 11.31 Az = 331.9 (USCGS)
26.	eP eSKS ePS ePPS LmH LmV	06 46 51 57 20 58 30 58 43 07 28.0 28.0	<u>Near Coast of Chiapas, Mexico</u> 14.40 N 93.05 W H = 06 33 59.6 h = 14 km MAG=4.9 (USCGS) D = 87.7 LmH:18s 1.8/um LmV:18s 1.6/um MLH=5.5 MLV=5.5
26.	ePKP e e	12 47 59 48 05 48 09	<u>Loyalty Islands</u> 20.36 S 168.72 E H = 12 28 25.0 h = normal MAG=4.8 D = 144.78 Az = 334.6 (USCGS)
26.	eP	12 54 34	<u>India - China Border Region</u> 29.37 N 94.95 E H = 12 44 02.7 h = normal MAG=4.9 D = 63.85 Az = 315.2 (USCGS)
26.	ePg eSg	14 06(02) 06 40	<u>Eschenlohe/GFR, explosion</u> H = 15 05 00 yield 9.1 to (München) D ca. 3.0
26.	eP e e	17 19 09 19 14 19 29	<u>South Atlantic Ridge</u> 22.36 S 12.65 W H = 17 07 24.9 h = normal MAG=5.3 D = 75.78 Az = 15.7 (USCGS) PV:1.3s 16.7nm MPV=5.0

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Day	Phase	h m s	Remarks
26.	eP ePcP LmV	20 56 27 58 08 21 19.5	<u>West Pakistan</u> 32.08 N 70.07 E H = 20 48 03.3 h = 35 km MAG=4.8 D = 46.35 Az = 311.4 (USCGS) PV:1.3s 13.9nm
27.	eP i e iS C iS B i LmH LmV	02 50 13.5 50 17 51 21 53 44 53 48 53 56 58.5 58.7	<u>Dodekanese Islands</u> 35.45 N 27.81 E H = 02 45 49.2 h = 21 km MAG=5.0 D = 19.19 Az = 327.3 (USCGS) PV(A):1.4s 362.0nm PV(B):5s 0.84/um LmH:11s 17.9/um LmV:10s 11.0/um MPV(A)=5.4 MPV(B)=5.2 MLH=5.6 MLV=5.6
27.	iPKP	06 51 02	<u>Tonga Islands</u> 15.58 S 174.39 W H = 06 31 39.1 h = 130 km MAG=4.4 D = 144.69 Az = 353.4 (USCGS)
27.	ePKP e e e	11 11 10.5 11 13 11 15 11 18.5	<u>South of Fiji Islands</u> 19.21 S 175.66 E H = 10 51 40.1 h = 88 km MAG=5.4 D = 146.16 Az = 341.7 (USCGS) PV2:1.3s 55.5nm
27.	eP	17 53 34.5	<u>Fox Islands</u> 52.52 N 170.57 W H = 17 41 45.8 h = 65 km MAG=4.7 D = 77.20 Az = 358.6 (USCGS) PV:1.0s 14.2nm MPV=4.9
28.	eP	03 36 27	<u>Fox Islands, Aleutian Is.</u> 52.83 N 167.12 W H = 03 24 35.8 h = normal MAG=4.5 D = 76.90 Az = 0.8 (USCGS) PV:0.9s 11.8nm MPV=5.0
28.	e	07 29 18	<u>Hokkaido, Japan</u> 41.18 N 142.69 E H = 07 17 04.1 h = 38 km MAG=4.5 D = 79.04 Az = 330.7 (USCGS)

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Day	Phase	h m s	Remarks
28.	ePKHKP ePKP2 e LmH LmV	11 18 18 18 28 18 39 12 32.5 34.0	<u>Tonga Islands</u> 22.48 S 174.71 W H = 10 58 25.7 h = normal MAG=5.0 D = 151.46 Az = 351.6 (USCGS) PV:1.4s 24.6nm LmH:17s 0.5 $\mu$ m LmV:18s 0.8 $\mu$ m MLH=5.3
28.	eP e	14 15 39.5 15 53	<u>Near East Coast of Honshu, Japan</u> 40.91 N 142.33 E H = 14 03 35.9 h = normal MAG=4.7 D = 79.14 Az = 330.6 (USCGS)
28.	eP e	18 49 24 50 48	<u>Northern Peru</u> 5.61 S 76.95 W H = 18 36 10.3 h = 46 km MAG=5.0 D = 93.38 Az = 39.6 (USCGS)
28.	eP e ePP eS ePPS eSS e eSSS LmV LmH	21 24 03 24 06 26 46 33 26 34 05 38 04 41 24 41 36 22 02.0 03.3	<u>Komandorsky Islands</u> 55.43 N 166.58 E H = 21 12 38.1 h = 27 km MAG=5.4 D = 72.25 Az = 343.6 (USCGS) LmV:13s 3.7 $\mu$ m LmH:13.5s 4.8 $\mu$ m MLV=5.9 MLH=5.9
28.	eP e e e e	21 34 32 34 38 34 52 36 57 37 11	<u>Komandorsky Islands</u> 55.35 N 166.82 E H = 21 23 06.7 h = 22 km MAG=5.1 D = 72.37 Az = 343.7 (USCGS)
29.	eP	06 36 39.5	<u>Fox Islands, Aleutian Is.</u> 52.85 N 167.06 W H = 06 24 47.3 h = 23 km MAG=4.7 (USCGS) D = 76.8 PV:1.2s 12.8nm MPV=4.9

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Day	Phase	h m s	Remarks
29.	eP e	07 48 19 48 25	<u>Fox Islands, Aleutian Is.</u> 52.83 N 166.97 W H = 07 36 28.2 h = 32 km MAG=4.6 (USCGS) D = 77.0 PV:1.2s 20.4nm MPV=5.1
29.	eP e	10 06 54 07 02	<u>Near Coast of Oaxaca, Mexico</u> 15.11 N 93.97 W H = 09 54 04.9 h = 42 km MAG=5.0 D = 88.02 Az = 37.9 (USCGS) PV:1.0s 9.5nm MPV=5.1
29.	ePKIKP e iPKHKP LmH LmV	11 31 44 31 51 32 00 12 47.8 47.8	<u>Tonga Islands</u> 22.46 S 175.00 W H = 11 11 59.5 h = normal MAG=5.6 D = 151.40 Az = 351.2 (USCGS) PV2:2.2s 149.0nm LmH:19s 3.7 $\mu$ m LmV:19s 4.7 $\mu$ m MLH=6.1
29.	ePKIKP e iPKHKP	12 39 34 39 38 39 41	<u>Tonga Islands</u> 22.43 S 174.88 W H = 12 19 46.6 h = normal MAG=5.3 D = 151.38 Az = 351.4 (USCGS) PV3:1.5s 50.4nm
29.	e ePP ePPP eSS LmH LmV	13 50 28 50 57 53 39 14 07 32 33.7 45.7	<u>New Ireland Region</u> 3.20 S 150.61 E H = 13 30 31.9 h = 28 km MAG=5.4 (USCGS) D = 121.4
29.	ePKHKP ePKP2 e	15 33 35 33 49 33 53.5	<u>South of Fiji Islands</u> 25.25 S 177.88 W H = 15 14 01.3 h = 205 km MAG=4.5 D = 153.61 Az = 346.3 (USCGS)

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Day	Phase	h m s	Remarks
29.	ePKIKP ePKHKP ei e	15 39 43 39 48.5 39 50 40 12	<u>Tonga Islands</u> 21.48 S 174.35 W H = 15 19 57.6 h = normal MAG=5.0 D = 150.51 Az = 352.3 (USCGS) PV3:1.4s 43.0nm
29.	eP	21 52 38	<u>Andreanof Islands, Aleutian Is.</u> 51.68 N 173.87 W H = 21 40 41.8 h = 36 km MAG=4.2 D = 77.94 Az = 356.4 (USCGS)
30.	eP e A ePP B ePP AC eSKS eS eiPS eiPPS ePKKP eiSS LmH LmV	00 06 44 11 12.5 11 18 11 20 17 40 20 00 20 46 21 44 21 52.5 26 56 52.1 01 02.9	<u>West New Guinea</u> 0.21 S 133.44 E H = 23 52 15.0 h = 12 km MAG=6.1 D = 109.79 Az = 324.9 (USCGS) PV1:1.8s 40.8nm LmH:19.5s 17.4/um LmV:19s 8.3/um MPV1=6.5 MLH=6.6 MLV=6.3
30.	eP e	02 29 41 29 51.5	<u>Iceland</u> 66.43 N 17.37 W H = 02 24 48.6 h = 1 km MAG=4.4 D = 21.57 Az = 122.9 (USCGS)
30.	ePKIKP -iPKHKP ePKP2	03 09 17 09 22 09 28	<u>Fiji Islands</u> 20.88 S 179.17 W H = 02 50 41.4 h = 620 km MAG=4.9 D = 149.10 Az = 346.6 (USCGS) PV:1.4s 43.0nm
30.	ePKIKP +iPKHKP LmH LmV	04 29 58 30 04.5 05 45.7 45.9	<u>Tonga Islands</u> 22.45 S 175.02 W H = 04 10 12.1 h = normal MAG=5.3 D = 151.38 Az = 351.2 (USCGS) PV:1.6s 49.3nm LmH:19.5s 1.1/um LmV:20s 1.3/um MLH=5.6

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Day	Phase	h m s	Remarks
30.	ePKHKP	04 47 07	<u>Tonga Islands</u> 22.27 S 174.94 W H = 04 27 13.8 h = normal MAG=4.6 D = 151.22 Az = 351.3 (USCGS)
30.	eP	08 23 27	<u>Fox Islands, Aleutian Is.</u> 52.80 N 167.11 W H = 08 11 38.5 h = 45 km MAG=4.2 D = 76.93 Az = 0.8 (USCGS)
30.	-iP	17 46 28.5	<u>Kurile Islands</u> 44.11 N 148.84 E H = 17 34 29.0 h = 35 km MAG=5.2 D = 78.57 Az = 333.8 (USCGS) PV:1.2s 56.1nm MPV=5.5
30.	e e e	19 50 14 50 20.5 50 35.5	
30.	eiP A +iP ABC ePP A +iPP C iSKS iS C eS B ePS eSS LmV LmH	20 52 10 52 11 56 03 56 06 21 02 47.5 03 25 03 32 05 55 10 00 36.3 36.4	<u>Near Coast of Northern Peru</u> 6.93 S 80.46 W H = 20 38 42.0 h = 37 km MAG=5.8 D = 96.62 Az = 39.8 (USCGS) PV2:1.9s 58.9nm LmV:17.5s 8.3/um LmH:18s 5.9/um MPV2=5.9 MLV=5.3 MLH=5.1
31.	eP e LmH LmV	01 49 33 52 44.5 02 30.0 31.6	<u>Off East Coast of Honshu, Japan</u> 40.26 N 143.96 E H = 01 37 24.1 h = normal MAG=4.6 D = 80.32 Az = 331.5 (USCGS) LmH:13s 1.0/um LmV:16s 0.5/um MLH=5.4 MLV=5.0

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Moxa

Day	Phase	h m s	Remarks
31.	eP LmH LmV	09 25 25 30.4 32.1	<u>Southern Greece</u> 37.81 N . 21.43 E H = 09 21 59.5 h = 80 km MAG=4.3 D = 14.62 Az = 334.5 (USCGS) LmH:9s 0.7 $\mu$ m LmV:20s 1.1 $\mu$ m MLH=4.1
31.	ePKP2	14 06 33	<u>Kermadec Islands</u> 31.50 S 178.07 W H = 13 46 00.1 h = normal MAG=4.7 D = 159.56 Az = 342.1 (USCGS)
31.	eP e e LmH LmV	19 33 51.5 33 55 34 06 41.5 43.3	<u>Eastern Mediterranean Sea</u> 35.52 N 28.03 E H = 19 29 26.8 h = 27 km MAG=4.8 D = 19.23 Az = 326.9 PV:1.1s 14.4nm LmH:14s 1.7 $\mu$ m LmV:13s 1.1 $\mu$ m MPV=4.1 MLH=4.5 MLV=4.5

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Moxa

Day	Phase	h m s	Remarks
1.	+eiPKIKP ePKHKP ePKP2 e ePP LmH LmV	00 33 54 34 04 34 20 37 30 37 56 58.5 58.6	<u>South of Fidschi Islands</u> 26.65 S 177.48 W H = 00 14 16.0 h = 123 km MAG=5.6 D = 155.0 Az = 346.2 (USCGS) PV:2.0s 106.0nm LmH:16s 0.8 $\mu$ m
1.	eP	08 56 33	<u>Off East Coast of Kamchatka</u> 52.88 N 159.35 E H = 08 45 07.3 h = 64 km MAG=4.6 D = 73.3 Az = 339.2 (USCGS) PV:0.9s 21.2nm MPV=5.1
1.	ePKIKP e e	09 11(53) 12 14.5 12 19	<u>South of Fiji Islands</u> 24.82 N 177.82 W H = 08 52 22.6 h = 154 km MAG=3.8 D = 153.2 Az = 346.6 (USCGS)
1.	eP e e e LmH LmV	14 29 20 29 21.5 29 25 29 32 40.9 40.9	<u>Azores Islands</u> 39.19 N 29.88 W H = 14 23 03.9 h = normal MAG=4.8 D = 31.1 Az = 54.7 (USCGS) LmH:14.5s 0.4 $\mu$ m LmV:15s 0.3 $\mu$ m MLH=4.3 MLV=4.3
1.	eP	18 39 22.5	<u>Near West Coast of Honshu, Japan</u> 39.99 N 139.15 E H = 18 27 23.1 h = 42 km MAG=4.9 D = 78.2 Az = 329.0 (USCGS) PV:1.2s 12.8nm MPV=4.8
1.	+iP i i i	20 32 17.5 32 30 32 34 32 44	<u>Luzon, Philippine Islands</u> 16.52 N 122.20 E H = 20 19 21.9 h = 36 km MAG=5.9 D = 89.8 Az = 323.4 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
1.	eS	20 42 46	LmV:19s 248 $\mu$ m LmH:19s 171 $\mu$ m
	e	42 58	MLV=7.7 MLH=7.5
	LmV	21 16.9	
	LmH	17.1	
1.	e	22 05 22	
	e	05 24	
2.	eP	13 38 23	<u>Southern Iran</u> 27.51 N 60.92 E
	e	38 30	H = 13 30 23.3 h = 62 km MAG=5.7
	e	38 45	D = 43.7 Az = 315.7 (USCGS)
	e	43 55.5	SH:15s 0.6 $\mu$ m
	eS	44 47	LmH:15s 0.5 $\mu$ m LmV:12s 0.6 $\mu$ m
	eSS	48 18	MSH=5.1 MLH=4.5 MLV=4.8
	LmH	14 03.3	
	LmV	04.0	
2.	+eP	14 19 36	<u>Oaxaca, Mexico</u> 16.59 N 97.70 W
	ePP	23 00	H = 14 06 43.9 h = 40 km MAG=6.3
	iS	30 12	D = 89.0 Az = 36.9 (USCGS)
	ePS	31 40	PV:3.5s 2160.0nm
	LmH	15 03.4	LmH:18s 157.0 $\mu$ m LmV:18s 176.0 $\mu$ m
	LmV	03.5	MPV=6.9 MLH=7.5 MLV=7.6
2.	e	16 42 45	
2.	eP	17 26 53	<u>Kodiak Islands</u> 56.95 N 151.54 W
			H = 17 15 26.9 h = 15 km MAG=4.8
			D = 71.9 Az = 11.2 (USCGS)
			PV:1.4s 18.4nm
			MPV=5.0
3.	-iP	05 07 13	<u>Ryukyu Islands</u> 25.63 N 128.50 E
	-i	07 28	H = 04 54 32.7 h = 19 km MAG=6.4
	e	09 16	D = 85.9 Az = 325.3 (USCGS)
	ePP	10 28	LmH:16s 223.0 $\mu$ m LmV:16s 263.0 $\mu$ m
	eS	17 40	MLH=7.7 MLV=7.8
	LmH	51.4	
	LmV	51.4	

August 1968			Moxa
Day	Phase	h m s	Remarks
3.	eIP	06 38 02	<u>Luzon, Philippine Islands</u>
	e	38 03	16.48 N 122.31 E
	eS	48 30	H = 06 25 05.8 h = 37 km MAG=5.9
	iPS	50 00	D = 89.9 Az = 323.4 (USCGS)
	eSS	55 06	PV2:1.6s 144.0nm
	LmV	07 24.3	LmV:15s 22.3 $\mu$ m LmH:15s 16.8 $\mu$ m
	LmH	25.2	MPV=6.0 MLV=6.7 MLH=6.6
3.	eP	14 10 08.5	<u>Western Pakistan</u> 25.80 N 62.78 E
	epP	10 20	H = 14 01 46.5 h = 40 km MAG=4.7
	LmH	30.5	D = 46.1 Az = 316.5 (USCGS)
			PV:1.2s 17.9nm
			LmH(C):26.5s 0.7 $\mu$ m
			MPV=5.0 MLH=4.5
3.	eP	19 32 02.5	<u>Luzon, Philippine Islands</u>
	LmH	20 13.7	16.35 N 122.44 E
	LmV	18.1	H = 19 19 01.6 h = 22 MAG=5.2
			D = 90.1 Az = 323.5 (USCGS)
			LmH(C):18.5s 1.3 $\mu$ m LmV(C):18s 2.4 $\mu$ m
			MLH=5.4 MLV=5.7
4.	LmV	03 04.1	Probably <u>Philippine Islands</u> (USCGS)
			LmV:16s 04 $\mu$ m
4.	ePKHKP	11 00 30	<u>Tonga Islands</u> 22.54 S 174.77 W
			H = 10 40 37.3 h = normal MAG=4.9
			D = 151.5 Az = 351.5 (USCGS)
4.	+eP	11 55 02	<u>Mindanao, Philippine Islands</u>
	i	55 06	6.59 N 126.76 E
	ePP	59 09	H = 11 41 24.9 h = 107 km MAG=5.7
	ePPP	12 01 16	D = 100.4 Az = 324.1 (USCGS)
	ePPPP	03(00)	PV2:1.2s 97.0nm
	eSKS	05 27	LmH:19s 7.3 $\mu$ m LmV:19s 7.1 $\mu$ m
	iS	06 32	MPV2=6.3 MLH=6.2 MLV=6.2
	e	08 24	e 58 31 e 07 57.5 e 08 24
	LmH	42.5	
	LmV	43.3	

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Moxa

Day	Phase	h m s	Remarks
4.	e	15 35 41	<u>Luzon, Philippine Islands</u> 16.23 N 122.47 E H = 15 22 37.8 h = normal MAG= 5.0 D = 90.2 Az = 323.5 (USCGS)
4.	eP e eS e LmH	18 23 02 23 08 26(35) 26(44) 29.8	<u>Dodekanese Islands</u> 35.40 N 27.95 E H = 18 18 37.8 h = 41 km MAG= 4.5 D = 19.3 Az = 327.2 (USCGS) PV1:1.2s 25.5nm PV2:1.2s 61.2nm LmH:15s 0.5/um MPV1=4.3 MPV2=4.7 MLH=3.9
4.	eP e e LmH LmV	23 27 42.5 27 51 29 25 33.0 34.5	<u>Ionian Sea</u> 37.74 N 20.70 E H = 23 24 18.2 h = 31 km MAG=4.4 D = 14.4 Az = 336.2 (USCGS) LmH:14s 0.7/um LmV:14s 0.5/um MLH=4.0
5.	ePP ePS eSS LmH LmV	00 16(10) 25 00 30 35 58.0 58.0	<u>Southwest of Africa</u> 53.03 S 9.63 E H = 23 57 39.6 h = normal MAG=4.9 (USCGS) D = 103.6 LmH:20s 0.5/um LmV:20s 0.6/um MLH=5.0 MLV=5.2
5.	ePKHKP	04 32 11	<u>Tonga Islands</u> 21.46 S 174.57 W H = 04 12 19.5 h = normal MAG=4.2 D = 150.5 Az = 352.0 (USCGS)
5.	eP e e e	05 03 57 03 58 04 03 06 17	<u>Greenland Sea</u> 73.22 N 6.32 E H = 04 58 56.9 h = normal MAG=4.7 D = 22.8 Az = 171.3 (USCGS) PV2:1.4s 49.1nm MPV2=4.8
5.	-eiP epP esP +iPP	16 29 18.5 29 30 29 37 32 26	<u>Shikoku, Japan</u> 33.29 N 132.18 E H = 16 17 04.8 h = 41 km MAG=6.3 D = 81.4 Az = 326.3 (USCGS) PV:1.1s 108nm SH:11s 11.0/um

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Day	Phase	h m s	Remarks
cont. 5.	iS ePKKP ePKPKP epPKPKP LmH LmV	16 39 25 47 52 55 53 56 06 17 09.8 09.8	LmH:16s 39.6/um LmV:16s 47.7/um MPV=5.8 MSH=6.8 MLH=6.9 MLV=7.0
6.	eP	00 21 12	<u>North Atlantic Ridge</u> 26.68 N 44.62 W H = 00 12 30.3 h = normal MAG=4.7 D = 48.6 Az = 44.9 (USCGS)
6.	eP LmV LmH	03 19 25 04 05.8 06.0	<u>Luzon, Philippine Islands</u> 16.60 N 122.37 E H = 03 06 27.9 h = normal MAG=5.1 D = 89.8 Az = 323.5 (USCGS) PV:1.2s 10.2nm LmV:16s 0.5/um LmH:18s 0.4/um MPV=4.9 MLV=5.1 MLH=5.1
6.	eP LmV	03 36 46 04 18.0	<u>Chiapas, Mexico</u> 17.22 N 92.58 W H = 03 24 04.3 h = 13 km MAG=4.4 D = 85.5 Az = 38.3 (USCGS) PV:1.6s 15.2nm LmV:16s 0.6/um MPV=4.9 MLV=5.1
6.	eP e LmH LmV	05 06 02 06 10 49.4 49.5	<u>Luzon, Philippine Islands</u> 15.74 N 121.94 E H = 04 53 04.6 h = 50 km MAG=5.2 D = 90.3 Az = 323.3 (USCGS) PV:1.2s 10.2nm LmH:17s 1.1/um LmV:16s 0.9/um MPV=4.9 MLH=5.4 MLV=5.4
6.	eiP e	08 43 26 43 36.5	<u>Eastern Gulf of Aden</u> 13.93 N 51.54 E H = 08 34 42.3 h = normal MAG=4.9

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Day	Phase	h m s	Remarks
cont.			
6.	LmV LmH	09 08.8 08.9	D = 48.8 Az = 327.1 (USCGS) PV:1.4s 18.4nm LmV:16s 0.6 $\mu$ m LmH:15s 0.7 $\mu$ m MPV=4.9 MLV=4.7 MLH=4.8
6.	LmH LmV	10 57.0 11 05.5	Probably <u>Ryukyu Islands</u> (USCGS) LmH:21s 0.7 $\mu$ m LmV:14s 0.5 $\mu$ m
6.	e	12 48 30.5	
7.	+eiP ei eipP ei eS eSKS ePS eSSS LmH LmV	08 12 08 12 22.5 12 24 12 30.5 21 54.5 22 20 22 55 30 16 50.8 50.9	<u>Hokkaido, Japan</u> 43.08 N 144.62 E H = 08 00 13.4 h = 54 km MAG=5.6 D = 78.1 Az = 331.6 (USCGS) PV:0.8s 61.3nm LmH:17s 1.8 $\mu$ m LmV:17s 1.9 $\mu$ m MPV=5.8 MLH=5.5 MLV=5.5
7.	e	08 59 13	
7.	e eSg	09 06 21.5 07 10	<u>Yugoslavia</u> 45 $\frac{1}{2}$ N 16.0 E H = 09 04 00 (BCIS)
7.	iPg eSg i	14 13 49 14 03.5 14 04.5	Explosion (D = ca. 1.1)
8.	eP	00 16 19	<u>Southwestern Ryukyu Islands</u> 24.67 N 125.01 E H = 00 03 48.5 h = 52 km MAG=4.8 D = 84.8 Az = 324.1 (USCGS) PV:1.8s 20.4nm MPV=4.1

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Day	Phase	h m s	Remarks
8.	+iP eipP LmH LmV	05 07 31 07 42 48.8 48.8	<u>Near East Coast of Honshu, Japan</u> 36.39 N 141.40 E H = 04 55 10.0 h = 41 km MAG=5.4 D = 82.7 Az = 330.4 (USCGS) PV:1.4s 67.5nm LmH:15s 1.8 $\mu$ m LmV:16s 1.6 $\mu$ m MPV=5.7 MLH=5.6 MLV=5.5
8.	eP e LmH LmV	09 32 32 32 36 10 09.0 16.2	<u>Ryukyu Islands</u> 25.81 N 128.57 E H = 09 19 53.9 h = normal MAG=4.9 D = 85.8 Az = 325.3 (USCGS) LmH:18.5s 0.6 $\mu$ m LmV:14s 0.4 $\mu$ m MLH=4.6 MLV=5.0
8.	e	13 17 13.5	
8.	e LmV LmH	14 36 33 15 04.8 05.0	Probably <u>Luzon, Philippine Islands</u> (USCGS) LmV:18s 0.3 $\mu$ m LmH:16s 0.3 $\mu$ m
9.	e ePP e e eSS LmH LmV	03 27 18 29 11 30 34 31 00 46 32 04 14.4 24.2	<u>Eastern Islands</u> 22.40 S 113.02 W H = 03 08 04.2 h = normal MAG=5.4 D = 128.8 Az = 42.3 (USCGS) LmH:22s 1.3 $\mu$ m LmV:19s 1.9 $\mu$ m MLH=5.6
9.	+eP epP esP LmH LmV	10 50 02.5 50 12 50 16.5 11 25.2 29.5	<u>Kurile Islands</u> 43.43 N 147.12 E H = 10 38 04.0 h = 40 km MAG=5.1 D = 78.6 Az = 332.9 (USCGS) PV:1.6s 38.0nm LmH:15s 0.6 $\mu$ m LmV:17s 0.5 $\mu$ m MPV=5.2 MLH=5.1 MLV=5.0
9.	ePKP	18 18 47	<u>Tonga Islands</u> 22.69 S 175.21 W H = 17 59 00.6 h = 46 km MAG=4.7 D = 151.6 Az = 350.8 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
10.	eP	00 48 37.5	<u>Svalbard</u> 76.74 N 10.48 E
	e	48 38	H = 00 43 05.9 h = normal MAG=4.5
	e	48 45.5	D = 26.2 Az = 178.4 (USCGS)
	e	48 49	PV2:1.6s 34.1nm
	eS	53 12	MPV2=4.7
10.	eP	01 10 11.5	<u>Svalbard</u> 76.03 N 5.55 E
	e	10 18	H = 01 04 45.3 h = normal MAG=4.1
	e	10 24	D = 25.6 Az = 171.0 (USCGS)
10.	eP	02 21 06.5	<u>Molucca Passage</u> 1.42 N 126.22 E
	ePP	25 17	H = 02 07 04.4 h = normal MAG=6.3
	eSKS	31 36	D = 104.2 Az = 323.3 (USCGS)
	eS	32 40	LmV:23s 304.0 $\mu$ m LmH:19s 188.0 $\mu$ m
	ePS	34 24	MLV=7.8 MLH=7.7
	LmV	03 12.5	ei 21 12 i 21 16 i 21 20 ei 31 48
	LmH	14.3	
10.	eP	04 19 56.5	<u>Molucca Passage</u> 1.33 N 126.54 E
	e	20.5	H = 04 05 50.6 h = normal MAG=5.7
			D = 104.5 Az = 323.4 (USCGS)
10.	eP	04 33 34.5	<u>Iran</u> 36.87 N 43.02 E
	e	33 36.5	H = 04 27 59.8 h = 29 km MAG=5.0
			D = 26.3 Az = 311.5 (USCGS)
10.	eP	05 02 24.5	<u>Svalbard</u> 75.96 N 8.69 E
	e	02 38.5	H = 04 56 59.5 h = normal MAG=4.7
			D = 25.4 Az = 175.7 (USCGS)
			PV:1.4s 40.0nm
			MPV=5.0
10.	+eP	06 05 48.5	<u>Molucca Passage</u> 1.47 N 126.18 E
	e	05 57	H = 05 51 47.9 h = normal MAG=6.2
	e	09 15	D = 104.2 Az = 323.3 (USCGS)
	e	09 53	PV:2.0s 66.2nm
	ePP	10 10	LmH:18.5s 13.4 $\mu$ m LmV:18s 16.8 $\mu$ m
	eSKS	16 28	MPV=5.8 MLH=6.5 MLV=6.6
	eSKKS	17 09	

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Moxa

Day	Phase	h m s	Remarks
cont.			
10.	ePS	06 19 00	
	LmH	58.2	
	LmV	58.2	
10.	eP	16 54 24.5	<u>Luzon, Philippine Islands</u>
	e	54 37	15.50 N 121.58 E
	e	58 03	H = 16 41 25.4 h = normal MAG=5.4
	eS	17 05 07	D = 90.3 Az = 323.2 (USCGS)
	LmH	38.5	PV:1.2s 10.2nm
	LmV	38.5	LmH:19s 2.2 $\mu$ m LmV:20s 2.8 $\mu$ m
			MPV=4.9 MLH=5.6 MLV=5.7
10.	+iPKP	19 38 09.8	<u>Loyalty Islands</u> 21.52 S 170.45 E
	ei	38 12	H = 19 18 43.0 h = 136 km MAG=5.1
	epPKP	38 42	D = 146.5 Az = 335.4 (USCGS)
	esPKP	38 54	PV:1.1s 62.5nm
11.	e	01 23 19	
	e	24 19	
11.	eP	02 55 23.5	<u>Near Coast of Peru</u> 15.19 S 73.97 W
	e	55 51	H = 02 41 52.8 h = 91 km MAG=5.6
	e	56 00	D = 98.8 Az = 40.0 (USCGS)
	eS	03 06 44	PV:1.2s 17.9nm
	eSP	08 14	LmV:20s 0.4 $\mu$ m
	e	13 25	
	LmV	39.0	
11.	eP	09 33 17	<u>Ascension Island</u> 11.10 S 13.04 W
			H = 09 22 37.1 h = normal MAG=4.7
			D = 65.1 Az = 17.0 (USCGS)
			PV:1.2s 10.2nm
			MPV=4.9
11.	+iP	12 49 05.3	<u>Andreanof Islands/Aleut. Is.</u>
	epP	49 44	52.08 N 179.95 W
	e	54 10	H = 12 37 28.1 h = 159 km MAG=5.5
	e	58 41	D = 77.2 Az = 352.5 (USCGS)
	e	59 50	PV:0.9s 47.2nm



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Moxa

Day	Phase	h m s	Remarks
11.	eP	20 14 46	<u>Molucca Passage</u> 1.55 N 126.13 E
	ePP	19 10	H = 20 00 43.4 h = normal MAG=5.9
	eSKS	25 20	D = 104.1 Az = 323.3 (USCGS)
	eSKKS	26 00	LmV:19.5 s 3.8 $\mu$ m LmH:19.5s 4.4 $\mu$ m
	ePS	28 00	MLV=6.0 MLH=6.0
	ePPS	29 12	e 14 52.5 e 17 52 e 18 13
	LmV	21 07.0	
	LmH	07.1	
12.	e	07 28 28.5	<u>Belgium</u> 50.5 N 4.4 E H = 07 26 43 (BCIS)
12.	e	13 55 49	
	e	55 59.5	
	e(Sg)	57 21	
12.	ePKP2	18 27 44.5	<u>Kermadec Islands</u> 31.41 S 177.86 W
	e	28 03	H = 18 07 10.6 h = normal MAG=4.9 (USCGS) D = 158.3 PV:1.3s 33.2nm
12.	eP	20 43 49	<u>Hokkaido, Japan</u> 41.41 N 142.64 E
	e	43 57	H = 20 31 52.8 h = 68 km MAG=5.2
	LmH	21 17.4	D = 78.8 Az = 330.7 (USCGS)
	LmV	24.7	LmH:17s 1.1 $\mu$ m LmV:14s 0.3 $\mu$ m MLH=5.2 MLV=4.9
13.	ePn	01 53 49	<u>Switzerland</u> 46.6 N 9.6 E
	ePg	53 57	H = 01 52 42 (BCIS)
	iSn	54 30	D = 4.3
	eiSg	54 55	LmH:5.0s 0.2 $\mu$ m LmV:5.0s 0.2 $\mu$ m
	LmH	55.7	MLH=3.0
	LmV	55.7	
13.	eP	03 06 53	<u>Molucca Passage</u> 1.96 N 126.28 E
	ePP	11 02	H = 02 52 51.9 h = normal MAG=5.8
	LmH	58.0	D = 103.8 Az = 323.4 (USCGS)
	LmV	59.0	PV:1.6s 38.0nm MPV=6.0

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Moxa

Day	Phase	h m s	Remarks
13.	e	07 00 21	
	e	00 22	
13.	ePn	13 32(08)	<u>Switzerland</u> 46.7 N 9.7 E
	e	32 13	H = 13 31 06 (BCIS)
	ePg	32 21	D = 4.2
	iSn	32 54	LmV:5.5s 0.3 $\mu$ m LmH:5.0s 0.4 $\mu$ m
	eSg	33 19	MLH=3.2
	LmV	34.0	
	LmH	34.1	
13.	e	16 19 14	<u>Belgium</u> 50.5 N 4.4 E
	LmH	20.2	H = 16 17 29 (BCIS)
13.	ePn	16 58 35	<u>Belgium</u> 50.4 N 4.2 E
	ePg	58 46	H = 16 57 15 (BCIS)
	e	59 17	D = 4.7
	eSn	59 24	LmH:6.5s 2.0 $\mu$ m LmV:6.0s 0.7 $\mu$ m
	e	59 37	MLH=3.9
	i	59 43	
	LmH	17 00.0	
13.	LmV	00.3	
	eiPn	18 03 54	<u>Switzerland</u> 46.7 N 9.8 E
13.	ei	04 01.5	H = 18 02 55 (BCIS)
	iPg	04 09.5	D = 4.2
	iSn	04 42	LmV:5.0s 0.7 $\mu$ m LmH:5.0s 0.8 $\mu$ m
	iSg	05 08	MLH=3.5
	LmV	05.8	
	LmH	05.9	
13.	eiPKP	19 54 36	<u>New Hebrides Islands</u> 15.51 S 167.53 E
	ePP	57 28	H = 19 35 20.9 h = 125 km MAG=5.2 D = 139.9 Az = 336.2 (USCGS) PV:1.4s 49.0nm
14.	e	00 52 59	
14.	eP	01 24 58.5	<u>Near East Coast of Kamchatka</u> 55.58 N 162.05 E

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Moxa

Day	Phase	h m s	Remarks
cont.			
14.	eS LmH	01 34 12 53.0	H = 01 13 45.2 h = 70 km MAG=5.3 D = 71.3 Az = 340.6 (USCGS)
14.	-eiP ePP eSKS eS	08 09 42.5 13 21 20 18 20 40	<u>Philippine Islands</u> 15.09 N 122.49 E H = 07 56 35.5 h = 8 km MAG=5.4 D = 91.1 Az = 323.5 (USCGS) PV:1.7s 65.8nm PPV:1.6s 45.5nm MPV=5.7 MPPV=5.7
14.	+eP e e LmH LmV	08 51 45 51 53 57 19 09 35.6 39.0	<u>Michoacan, Mexico</u> 18.54 N 102.82 W H = 08 38 48.4 h = 72 km MAG=5.4 D = 90.4 Az = 35.4 (USCGS) PV:2.4s 227.0nm LmH:18.5s 3.3 $\mu$ m LmV:16s 2.5 $\mu$ m MPV=6.0 MLH=5.8 MLV=5.8
14.	eP ePP eSKS eS LmH	22 28 10 32 26 38 56 39 52 23 17.1	<u>Northern Celebes</u> 0.16 N 119.79 E H = 22 14 19.4 h = 23 km MAG=6.0 D = 101.3 Az = 321.9 (USCGS) LmH:21s 112.0 $\mu$ m MLH=7.4
15.	eP i	02 34 04 34 07	<u>Crete</u> 35.27 N 26.75 E H = 02 29 45.4 h = 67 km MAG=4.8 D = 18.9 Az = 329.1 (USCGS)
15.	ePKIKP eiPKHKP ePKP2 eipPKIKP epPKHKP ePP eSS eSPSPS	07 10 06 10 14 10 21 10 55 11 01 13 54 33 05 34 22	<u>South of Fiji Islands</u> 23.78 S 177.42 W H = 06 50 38.7 h = 188 km MAG=5.5 D = 152.3 Az = 347.6 (USCGS)
15.	e	08 42 05	

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Moxa

Day	Phase	h m s	Remarks
15.	-ePKP e e LmH	18 00 54.5 03 48 04 36.5 19 07.0	<u>Santa Cruz Islands</u> 12.71 S 166.16 E H = 17 41 28.1 h = 4 km MAG=5.4 D = 136.8 Az = 336.4 (USCGS) PV:1.3s 25.0nm LmH:18s 0.8 $\mu$ m
15.	eP	21 39 54	<u>Northern Celebes</u> 0.07 N 120.02 E H = 21 26 00.0 h = normal MAG=5.3 (USCGS) D = 101.6
16.	eiPKHKP	03 50 47	<u>Fiji Islands</u> 21.80 S 179.51 W H = 03 32 04.9 h = 625 km MAG=4.6 D = 149.9 Az = 345.8 (USCGS) PV:0.5s 19.2nm
16.	+eP ePP eS LmH	10 51 34 54 36 11 01 45 30.0	<u>Off East Coast of Honshu, Japan</u> 38.53 N 143.32 E H = 10 39 16.8 h = 22 km MAG=5.6 D = 81.6 Az = 331.3 (USCGS) PV:1.5s 47.0nm LmH:15.5s 5.5 $\mu$ m MPV=5.4 MLH=6.0
16.	ePKIKP eiPKHKP iPKP2 epPKIKP epPKHKP epPKP2	11 52 50 52 55 53 03 55 18 55 24 55 34	<u>Fiji Islands</u> 21.09 S 179.28 W H = 11 34 16.4 h = 640 km MAG=5.1 D = 149.3 Az = 346.4 (USCGS)
16.	ePn iSn iSg e	21 34 56 35 47 36 09 36 14	<u>Yugoslavia</u> 46.39 N 14.21 E H = 21 33 46.8 h = normal MAG=4.2 D = 4.6 Az = 338.9 (USCGS)
17.	eP ei ePP iSKS	04 14 40 14 42 19 00 25 18	<u>Molucca Passage</u> 1.37 N 126.32 E H = 04 00 36.3 h = normal MAG=5.7 D = 104.3 Az = 323.3 (USCGS) LmH:19s 2.9 $\mu$ m

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Moxa

Day	Phase	h m s	Remarks
cont.			
17.	eS LmH	04 26 28 07.2	MLH=5.8
17.	eP epP	04 50 42 51 01	<u>South of Honshu, Japan</u> 31.64 N 140.83 E H = 04 38 06.4 h = 82 km MAG=5.3 D = 86.6 Az = 330.4 (USCGS) PV:2.2s 52.6nm
17.	ePKP	07 03 40	<u>Tonga Islands</u> 17.34 S 173.03 W H = 06 43 59.9 h = normal MAG=4.5 D = 146.6 Az = 354.6 (USCGS) PV:1.4s 15.3nm
18.	eP e LmH	07 24 32 24 36.5 59.3	<u>Southern Honshu, Japan</u> 35.28 N 135.32 E H = 07 12 19.3 h = normal MAG=5.0 D = 81.1 Az = 327.6 (USCGS) PV1:1.5s 23.5nm PV2:1.9s 59.0nm LmH:15.5s 2.7 $\mu$ m MPV1=5.0 MPV2=5.3 MLH=5.7
18.	eP i eS LmH	12 06 53 06 58 16 50 47.5	<u>Kurile Islands</u> 48.19 N 157.31 E H = 11 54 59.4 h = 27 km MAG=5.2 D = 77.2 Az = 338.4 (USCGS) LmH:15.5s 0.8 $\mu$ m MLH=5.1
18.	eP	14 29 26.5	<u>Molucca Passage</u> 1.38 N 126.36 E H = 05 43 57.7 h = normal MAG=5.4 D = 63.2 Az = 315.6 (USCGS) PV:1.2s 20.4nm MPV=5.1
18.	e ePP	18 27 55 30 36	<u>Santa Cruz Islands</u> 12.70 S 166.19 E H = 18 08 35.3 h = 34km MAG=5.2 D = 136.8 Az = 336.4 (USCGS)

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Day	Phase	h m s	Remarks
18.	ePKJKP ePKHKP iPKIKP iPP iPKS epPP iPPP iPKKP iSS isSSS	18 56 25 56 37.5 56 44.5 59 12.5 19 00 12 01 00 02 05 06 47 16 08 24 45	<u>Solomon Islands</u> 10.11 S 159.87 E H = 18 38 30.1 h = 538 km MAG=6.2 D = 131.9 Az = 333.3 (USCGS) e 56 30 i 56 54 i 57 34 e 58 50 i 59 23 ei 03 20 i 08 32 e 10 15 i 18 00
19.	ePn i iPg i iSg	00 38 05 38 11 38 20 38 25 39 32	<u>Switzerland</u> 46.39 N 6.93 E H = 00 36 43.8 h = normal MAG=4.3 D = 5.3 Az = 34.5 (USCGS)
19.	e	01 48 08	<u>France</u> 46.2 N 6.4 E H = 01 45 11 (BCIS) D = 5.6
19.	eP eS LmH	15 40 21 44 15 50.7	<u>Eastern Mediterranean Sea</u> 33.76 N 25.78 E H = 15 35 52.4 h = normal MAG=4.9 D = 19.8 Az = 332.6 (USCGS) PV:2.0s 66.3 nm MPV=4.5
19.	ePKP epPKP	16 01 49.5 02 38	<u>Tonga Islands</u> 15.88 S 174.03 W H = 15 42 29.7 h = 151 km MAG=5.3 D = 145.0 Az = 353.7 (USCGS) PV:1.3s 89.0nm
19.	LmH	17 11.5	Probably <u>Central California</u> (USCGS) LmH:18s 0.5 $\mu$ m
20.	ePKIKP +iPKP2	03 35 00 35 39	<u>Kermadec Islands</u> 31.14 S 179.88 E H = 03 15 46.1 h = 361 km MAG=4.8 (USCGS) D = 158.6 PV2:1.6s 53.0nm

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Day	Phase	h m s	Remarks
20.	+iP	04 13 46.0	<u>Eastern Kazakh SSR</u> 50.00 N 78.00 E H = 04 05 58.1 h = 0 km MAG=4.8 D = 41.1 Az = 297.4 (USCGS) PV:0.7s 16.6nm MPV=4.9
20.	ePg eiSg	05 03 35.5 04 40	<u>Switzerland</u> 46.8 N 9.9 E H = 05 02 28 (BCIS) D = 4.0
20.	e	09 41 25	
20.	e ePP e ePS ePPS LmH LmV	11 35 56 36 24 38 40 45 45 46 56 12 21.2 28.5	<u>Caroline Islands</u> 5.57 N 146.86 E H = 11 16 59.3 h = normal MAG=5.6 D = 112.1 Az = 331.1 (USCGS) LmH:16.5s 0.7 $\mu$ m LmV:18s 0.7 $\mu$ m MLH=5.3 MLV=5.3
21.	ePKP e e ePP LmV LmH	18 16 40 16 47 17 15 20 50 19 39.7 40.2	<u>Kermadec Islands</u> 30.86 S 179.09 W H = 17 50 48.0 h = normal MAG=5.3 D = 158.7 Az = 341.0 (USCGS) LmV:19s 10.6 $\mu$ m LmH:19.5s 9.4 $\mu$ m MLH=6.5
22.	e	02 28 44	<u>Kermadec Islands</u> 31.45 S 177.99 W H = 02 08 10.3 h = normal MAG=4.7 (USCGS) D = 155.8
22.	e	12 15 46	
22.	eP	13 44 07	<u>Near Islands, Aleuten Is.</u> 52.76 N 171.02 E H = 13 32 24.3 h = 34 km MAG=4.8 D = 75.5 Az = 346.6 (USCGS) PV:1.2s 15.3nm MPV=5.0

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Day	Phase	h m s	Remarks
22.	+iP ePP eS ePS eSS eSSS LmH LmV	14 11 48 14 35 21 27 22 00 26 05 29 45 49.9 52.3	<u>Near Islands, Aleuten Is.</u> 53.01 N 171.05 E H = 14 00 06.8 h = 33 km MAG=5.4 D = 75.3 Az = 346.6 (USCGS) PV:1.5s 63.8nm LmH:15.5s 5.9 $\mu$ m LmV:15s 4.5 $\mu$ m MPV=5.4 MLH=6.0 MLV=5.9
22.	-iPKP epPKP	16 38 54.5 39 33	<u>New Hebrides Islands</u> 19.09 S 169.05 E H = 16 19 39.6 h = 166 km MAG=5.1 D = 143.8 Az = 335.6 (USCGS) PV:1.1s 52.8nm
22.	eP	16 53 36.5	<u>Near Islands, Aleuten Is.</u> 52.73 N 171.05 E H = 16 41 52.3 h = 23 km MAG=4.7 D = 75.5 Az = 346.6 (USCGS) PV:1.3s 11.2nm MPV=4.8
22.	eP	20 51 15	<u>Komandorsky Islands Region</u> 55.02 N 165.79 E H = 20 39 51.3 h = 47 km MAG=5.0 (USCGS) D = 72.3
23.	ePg i eSg i	15 05 20 05 20.5 05 33.5 05 35.5	Explosion, <u>Hilders, Rhön, GFR</u> 50°32.56'N 10°02.48' E H = 15 05 00.9 yield 11.8 t (Hannover) D = 1.0
23.	ePKP epPKP	17 07 36 07 51	<u>Tonga Islands</u> 17.86 S 173.93 W H = 16 47 57.0 h = 72 km MAG=4.0 D = 147.0 Az = 353.5 (USCGS)
23.	eP epP ISKS eS eSP	22 49 30 51 27 59 20 23 00 08 01 30	<u>Salta Province, Argentina</u> 21.99 S 63.55 W H = 22 36 51.3 h = 537 km MAG=5.8 D = 97.8 Az = 38.4 (USCGS) PV:1.4s 42.9nm MPV=5.6

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Day	Phase	h m s	Remarks
cont.			
23.	ePS esSP ePKKP eSS esSS	23 02 48 05 00 06 33 06 50 10 10	e 53 26 e 02 28 e 07 00 e 17 00
23.	eP	23 27 30	<u>Southern Bolivia</u> 21.82 S 63.53 W H = 23 14 52.7 h = 541 km MAG=5.2 D = 97.7 Az = 38.4 (USCGS) PV:1.2s 10.2nm
24.	iPg iSg	11 58 20 58 40.8	Explosion (D = ca. 1.5)
25.	+iP ePP e eS LmV LmH	09 19 41 22 40 22 57.5 29 45 10 00.7 10 00.8	<u>Off East Coast of Honshu, Japan</u> 40.07 N 143.20 E H = 09 07 31.9 h = normal MAG=5.4 D = 80.2 Az = 331.1 (USCGS) PV:1.5s 114nm LmV:17s 4.0/um LmH:16s 5.1/um MPV=5.6 MLV=5.9 MLH=6.0
25.	+iP e	09 25 58 28 45	<u>Off East Coast of Honshu, Japan</u> 40.11 N 143.27 E H = 09 13 48.5 h = 31 km MAG=5.2 D = 80.2 Az = 331.1 (USCGS) PV:1.6s 91.0nm MPV=5.5
25.	eP	10 17 30	<u>Off East Coast of Honshu, Japan</u> 40.19 N 143.37 E H = 10 05 24.1 h = 37 km MAG=4.2 (USCGS) D = 80.0
25.	ePKHKP e e	11 35 24 35 50 35 55	<u>Tonga Islands</u> 20.04 S 175.31 W H = 11 15 46.3 h = 96 km MAG=5.5 D = 149.0 Az = 351.4 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
25.	eP e	13 37 12 37 18	<u>Molucca Passage</u> 1.11 N 126.20 E H = 13 23 09.0 h = normal MAG=5.4 D = 104.5 Az = 323.3 (USCGS) PV:1.0s 9.5nm MPV=5.3
26.	ePKP LmH LmV	09 45 30.5 10 42.0 42.0	<u>Fiji Islands</u> 16.26 S 177.96 E H = 09 25 58.8 h = 25 km MAG=5.7 D = 144.0 Az = 345.2 (USCGS) PV:1.5s 20.1nm
27.	LmH LmV	14 51.0 52.0	Probably <u>South of Mariana Islands</u> (USCGS) LmH:16s 0.4/um LmV:16s 0.5/um
28.	ePKP ei i LmH LmV	12 10 10 10 20.5 10 25 13 21.7 22.0	<u>South of Fiji Islands</u> 20.01 S 176.35 E H = 11 50 30.4 h = 36 km MAG=5.7 D = 147.1 Az = 342.0 (USCGS) LmH:15s 0.7/um LmV:20s 1.1/um MLH=5.5
28.	ePKHKP	17 31 44.5	<u>Tonga Islands</u> 22.15 S 175.20 W H = 17 12 11.3 h = 196 km MAG=3.9 D = 151.1 Az = 351.0 (USCGS) PV:1.1s 9.6nm
28.	eP ePP eS ePS eSS LmV LmH	20 55 18 58 55 21 06 06 07 20 12 25 39.9 40.2	<u>Philippine Islands Region</u> 15.56 N 122.01 E H = 20 42 16.7 h = 15 km MAG=5.7 (USCGS) D = 90.4 PV:1.5s 50.3nm LmV:17s 15.6/um LmH:16s 13.2/um MPV=5.5 MLV=6.5 MLH=6.5
29.	eP LmH LmV	01 49 21 02 37.0 38.2	<u>Luzon, Philippine Islands</u> 15.36 N 121.89 E H = 01 36 18.8 h = 17 km MAG=5.3 D = 90.6 Az = 323.3 (USCGS) PV:1.5s 13.4nm MPV=5.1

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Moxa

Day	Phase	h m s	Remarks
29.	eP	08 18 32	<u>Philippine Islands Region</u>
	LmH	09 06.3	15.48 N 122.05 E
	LmV	06.5	H = 08 05 30.5 h = 22 km MAG=5.1 (USCGS) D = 90.6 PV:1.5s 13.4nm LmH:15s 0.3 $\mu$ m LmV:18s 0.3 $\mu$ m MLH=4.8 MLV=4.8
29.	eP	21 21 05	<u>Luzon, Philippine Islands</u>
	eS	31 48	15.90 N 121.75 E
	eSS	38 00	H = 21 08 07.9 h = 39 km MAG=5.2 (USCGS)
	LmH	22 05.2	D = 90.0
	LmV	05.2	PV:1.2s 12.7nm LmH:18s 0.9nm LmV:20s 1.0 $\mu$ m MPV=5.0 MLH=5.3 MLV=5.3
29.	+iP	22 57 18	<u>Nevada, underground explosion</u>
	ePP	23 00 22	H = 22 45 00 (UPP) PV:1.2s 94.3nm
30.	+iP	02 57 00.5	<u>Near East Coast of Honshu, Japan</u>
	LmH	03 31.0	40.04 N 142.73 E
	LmV	36.8	H = 02 44 52.9 h = 38 km MAG=5.0 (USCGS) D = 80.0 LmH:22s 0.9 $\mu$ m LmV:16s 0.7 $\mu$ m MLH=5.1 MLV=5.1
30.	eP	A 22 11 19	<u>Arabian Sea</u> 14.62 N 56.25 E
	e	A 11 20.5	H = 22 02 19.8 h = normal MAG=5.2 (USCGS)
	e	B 11 23	D = 50.8
	e	11 33	PV2:1.0s 23.4nm
	ePPPP	14 33	LmV:20s 1.3 $\mu$ m LmH:16s 1.1 $\mu$ m
	eS	18 31	MPV=5.1 MLV=5.1 MLH=5.0
	ePS	18 42	
	eSa	22 26	
	LmH	35.5	
	LmV	36.4	

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Moxa

Day	Phase	h m s	Remarks
31.	ePKP	09 08 30	<u>Loyalty Islands Region</u> 22.94 S 172.86 E H = 08 48 44.7 h = 30 km MAG=4.9 (USCGS) D = 148.7
31.	eP	10 54 56	<u>Iran</u> 33.97 N 59.02 E
	eS	11 01 00	H = 10 47 37.4 h = 13 km MAG=6.0 (USCGS)
	LmH	15.8	D = 38.1
	LmV	15.8	LmH:16s 264 $\mu$ m LmV:15.5s 195 $\mu$ m MLH=7.1 MLV=7.1
31.	+iP	11 41 52.5	<u>Iran</u> 33.92 N 59.24 E H = 11 34 32.9 h = 24 km MAG=5.5 (USCGS) D = 38.2
31.	eP	13 30 20	<u>Iran</u> 34.11 N 59.43 E H = 13 22 59.5 h = normal MAG=4.8 D = 38.4
31.	eP	14 13 38	<u>Iran</u> 34.05 N 59.43 E H = 14 06 16.1 h = 18 km MAG=5.0 D = 38.4 PV:1.4s 18.4nm MPV=4.6
31.	eP	16 57 41	<u>Off East Coast of Honshu, Japan</u>
	e	57 51	39.76 N 143.50 E H = 16 45 29.7 h = 26 km MAG=4.6 (USCGS) D = 80.6 PV:1.4s 15.3nm MPV=4.7
31.	eP	18 16 16	<u>East of Lake Baikal</u> 56.27 N 115.59 E
	e	16 20	H = 18 06 35.7 h = 25 km MAG=4.6 (USCGS)
	LmH	38.0	D = 56.2 PV:1.8s 30.6nm MPV=5.0
31.	ePKIKP	20 13 34	<u>Fiji Islands</u> 18.35 S 177.69 W
	ePKHKP	13 36	H = 19 54 35.1 h = 379 km MAG=5.0 (USCGS)
	epPKP	15 09	D = 148.8

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Moxa

Day	Phase	h m s	Remarks
1.	ePKIKP ePKP2 e	00 44 02 44 37.5 44 41	<u>Kermadec Islands</u> 30.70 S 178.26 W H = 00 24 06.8 h = 25 km MAG=5.2 (USCGS) D = 158.8 PV2:1.0s 11.9nm
1.	eiPn i eSn	01 22 29.5 22 33.7 24 13	<u>Yugoslavia</u> 42.97 N 17.44 E H = 01 20 23.9 h = 15 km MAG=4.3 (USCGS) D = 8.7 PV:0.8s 23.6nm
1.	eP eS eSS eSSS LmH LmV	04 58 57 05 07 10 11 08 13 35 24.4 26.9	<u>Central Mid-Atlantic Ridge</u> 1.00 S 24.51 W H = 04 48 52.2 h = normal MAG=5.2 (USCGS) D = 59.9 LmH:16s 0.7 $\mu$ m LmV:16s 0.7 $\mu$ m MLH=4.8 MLV=5.0
1.	eP	05 45 22	<u>N.W. Iran-USSR Border Region</u> 39.02 N 46.00 E H = 05 39 46.7 h = 38 km MAG=5.1 (USCGS) D = 26.4 PV:1.6s 30.3nm MPV=4.7
1.	eP i ePP iPP iS iS LmH LmV	07 34 45 34 48 36 05 36 10 40 34 40 39 56.0 59.4	<u>Iran</u> 34.04 N 58.22 E H = 07 27 30.2 h = 15 km MAG=5.9 (USCGS) D = 37.5 PV1:1.0s 19.0nm PV2:1.0s 119nm LmH:13s 36.5 $\mu$ m LmV:12s 22.4 $\mu$ m MPV1=4.8 MPV2=5.6 MLH=6.4 MLV=6.3 e 35 14 e 35 48
1.	e	08 30 02.5	
1.	eP	09 35 40.5	<u>Kurile Islands</u> 44.98 N 148.90 E H = 09 23 45.3 h = normal MAG=4.8 (USCGS) D = 77.7 PV:1.1s 7.2nm MPV=4.7

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Moxa

Day	Phase	h m s	Remarks
1.	eP LmH	11 11 23 31.0	<u>Iran</u> 34.02 N 59.65 E H = 11 04 02.1 h = normal MAG=4.8 (USCGS) D = 38.5 PV:1.5s 26.8nm MPV=4.7
1.	eP e	19 23 50 23 53	<u>Iran</u> 34.23 N 58.26 E H = 19 16 37.3 h = 23 km MAG=5.0 (USCGS) D = 37.5 PV1:1.2s 12.8nm PV2:1.0s 18.2nm MPV1=4.5 MPV2=4.8
1.	eP	21 23 52	<u>Iran</u> 34.40 N 58.04 E H = 21 16 44.8 h = 44 km MAG=4.8 (USCGS) D = 37.2
2.	ei	01 20 16	
2.	eP	23 08 06	<u>Eastern Mediterranean Sea</u> 34.92 N 26.98 E H = 23 03 42.1 h = 51 km D = 19.3 Az = 329.3 (USCGS) PV:1.0s 11.9nm MPV=4.1
3.	e LmH	01 25 35 02 04.0	<u>South Indian Ocean</u> 37.83 S 37.90 E H = 01 12 27.3 h = normal MAG=5.1 D = 91.1 Az = 343.6 (USCGS)
3.	+iP e e e epP e	05 35 28 35 31 35 33.5 35 39 35 44 35 52	<u>Hokkaido, Japan</u> 42.95 N 145.24 E H = 05 23 30.0 h = 43 km MAG=5.2 D = 78.4 Az = 331.9 (USCGS) PV:1.1s 28.8nm MPV=5.3

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Moxa

Day	Phase	h m s	Remarks
3.	eP	07 13 46	<u>Near East Coast of Honshu, Japan</u> 37.94 N 141.65 E H = 07 01 36.5 h = 79 km MAG=5.4 D = 81.5 Az = 330.5 (USCGS) PV:1.0s 14.2nm MPV=4.9
3.	-iP	A 08 23 49	<u>Turkey</u> 41.79 N 32.31 E H = 08 19 52.2 h = 5 km MAG=5.7 D = 16.8 Az = 308.9 (USCGS) PV1:2.3s 337.0nm PV2:2.8s 3320.0nm PH1(B):14.5s 22.1 $\mu$ m PV1(B):15s 19.6 $\mu$ m LmH:18s 138.0 $\mu$ m LmV:19.5s 168.0 $\mu$ m MPV2=6.0 MLH=6.2 MLV=6.4
	-iP	B 23 49	
	i	A 23 52.5	
	eS	C 26 55	
	iS	B 26 59	
	LmH	31.8	
	LmV	31.8	
3.	eP	10 01 07.5	<u>Iran</u> 33.84 N 59.22 E H = 09 53 47.0 h = 16 km MAG=5.0 D = 38.3 Az = 310.7 (USCGS)
3.	eP	11 00 12	<u>Turkey</u> 41.77 N 32.44 E H = 10 56 15.0 h = 10 km MAG=4.5 D = 16.9 Az = 308.8 (USCGS)
3.	eP	14 13 06	<u>Turkey</u> 41.68 N 32.41 E H = 14 09 10.0 h = 14 km MAG=4.6 D = 16.9 Az = 309.0 (USCGS) PV:1.7s 30.7nm MPV=4.2
	eI	13 44.5	
	e	14 06.5	
3.	eP	15 47 33	<u>North Atlantic Ocean</u> 20.63 N 62.24 W H = 15 37 00.2 h = normal MAG=5.5 D = 64.2 Az = 42.8 (USCGS) PV:2.0s 92.6nm LmH:20s 1.0 $\mu$ m LmV:16s 1.0 $\mu$ m MPV=5.7 MLH=5.0 MLV=5.2
	eS	56 10	
	LmH	16 10.1	
	LmV	15.2	

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Moxa

Day	Phase	h m s	Remarks
3.	eP	17 56 19	<u>Tibet</u> 30.18 N 94.80 E H = 17 45 54.1 h = 53 km MAG=4.9 D = 63.2 Az = 314.9 (USCGS) PV:1.5s 10.1nm MPV=4.7
3.	eP	18 56 10.5	<u>Hindu Kush</u> 36.24 N 69.19 E H = 18 48 15.7 h = 75 km MAG=5.3 D = 43.1 Az = 308.2 (USCGS) PV:1.1s 19.2nm LmH:15.5s 1.1 $\mu$ m LmV:15s 1.5 $\mu$ m MPV=4.8 MLH=4.9 MLV=5.1
	e	56 24	
	LmH	19 18.5	
	LmV	18.5	
3.	+eP	19 08 12.5	<u>Central Mid-Atlantic Ridge</u> 1.02 N 28.16 W H = 18 58 08.3 h = normal MAG=4.7 D = 59.8 Az = 28.1 (USCGS) PV:1.3s 19.5nm MPV=5.0
3.	e	22 37 47	
3.	ePKP	23 49 52	<u>New Hebrides Islands</u> 17.71 S 167.71 E H = 23 30 13.6 h = 11 km MAG=4.9 D = 142.0 Az = 335.2 (USCGS)
3.	e	23 52 02	
4.	eP	08 16 05	<u>Iran</u> 33.92 N 59.24 E H = 08 08 44.3 h = 24 km MAG=5.0 D = 38.3 Az = 310.6 (USCGS) LmH:13s 0.3 $\mu$ m LmV:13s 0.4 $\mu$ m MLH=4.3 MLV=4.5
	e	16 09	
	e	16 40.5	
	e	16 49	
	LmH	38.7	
	LmV	38.7	
4.	ePKP	09 14 07.5	<u>Loyalty Islands</u> 22.79 S 172.95 E H = 08 54 24.8 h = normal MAG=4.6 D = 148.6 Az = 337.0 (USCGS)



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Moxa

Day	Phase	h m s	Remarks
4.	eP e e	10 45 58 46 16 46 21	<u>Near East Coast of Kamchatka</u> 53.20 N 159.69 E H = 10 34 28.4 h = 30 km MAG=4.7 D = 73.1 Az = 339.4 (USCGS) PV:1.2s 30.6nm MPV=5.3
4.	-iP e LmH LmV	11 26 56 26 58 46.8 49.7	<u>Iran</u> 33.88 N 59.08 E H = 11 19 35.7 h = 25 km MAG=5.1 D = 38.2 Az = 310.6 (USCGS) PV:1.0s 19.0nm LmH:16s 0.3 $\mu$ m LmV:13s 0.4 $\mu$ m MPV=4.8 MLH=4.2 MLV=4.5
4.	eP e ePP eS LmH LmV	23 32 03 33 20 33 33 37 54 50.2 53.7	<u>Iran</u> 33.99 N 58.24 E H = 23 24 47.2 h = 15 km MAG=5.4 D = 37.6 Az = 310.7 (USCGS) PV:1.2s 25.5nm LmH:15.5s 1.5 $\mu$ m LmV:14s 1.3 $\mu$ m MPV=4.8 MLH=4.9 MLV=5.0
5.	e ePP e ePPS eSS eSSS LmV LmH	03 02 07 03 47 14 00 15 15 20 40 25 00 53.0 53.3	<u>Off Coast of Southern Chile</u> 45.08 S 80.13 W H = 02 43 02.6 h = normal MAG=5.0 D = 123.9 Az = 50.1 (USCGS) LmH:22s 1.5 $\mu$ m LmV:21s 1.7 $\mu$ m MLH=5.5 MLV=5.7
5.	+iP ePn	04 13 46.5 15 18	<u>Eastern Kazakh SSR</u> 49.76 N 78.14 E H = 04 05 57.5 h = 0 km MAG=5.5 D = 41.3 Az = 297.7 (USCGS) PV:0.7s 61.5nm MPV=5.4 Probably underground explosion

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Moxa

Day	Phase	h m s	Remarks
5.	eP	08 27 45	<u>Azores Islands Region</u> 37.4 N 31.7 E H = 08 21 07.8 h = normal MAG=4.6 D = 33.4 Az = 52.5 (USCGS) PV:1.1s 9.6nm MPV=4.6
5.	eP	10 32 58.5	<u>Kurile Islands</u> 46.58 N 152.54 E H = 10 21 05.3 h = normal MAG=4.1 D = 77.4 Az = 335.7 (USCGS)
5.	ePKP	10 58 25	<u>Tonga Islands</u> 15.05 S 174.61 W H = 10 39 12.1 h = 174 km MAG=4.3 D = 144.1 Az = 353.2 (USCGS)
5.	eP e LmH LmV	18 46 45 46 49 55.3 55.3	<u>Crete</u> 33.98 N 26.75 E H = 18 42 17.6 h = 94 km D = 20.0 Az = 330.9 (USCGS) LmH:11s 1.0 $\mu$ m LmV:11s 0.6 $\mu$ m
6.	e	00 56 29	
6.	eP LmH LmV	02 34 55 54.9 58.8	<u>Iran</u> 34.03 N 59.28 E H = 02 27 37.1 h = 27 km MAG=4.9 D = 38.2 Az = 310.5 (USCGS) LmH:16s 0.9 $\mu$ m LmV:13s 0.6 $\mu$ m MLH=4.7 MLV=4.7
6.	ePKP	07 55 37	<u>New Hebrides Islands</u> 17.77 S 167.83 E H = 07 36 06.4 h = 28 km MAG=5.3 D = 142.1 Az = 335.9 (USCGS)
6.	eP LmH LmV	08 03 00 09 01.8 02.0	<u>Near Coast of Northern Peru</u> 5.77 S 80.26 W H = 07 49 42.0 h = 66 km MAG=5.3 D = 95.6 Az = 39.7 (USCGS) PV:2.0s 46.4nm LmH:17.5s 0.4 $\mu$ m LmV:19s 0.4 $\mu$ m MPV=5.7 MLH=4.9 MLV=4.9

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Moxa

Day	Phase	h m s	Remarks
6.	eP ePP	14 12 17.5 15 22	<u>Southern Nevada</u> 37.14 N 116.05 W H = 14 00 00.1 h = 0 km MAG=5.6 D = 81.2 Az = 30.7 (USCGS) PV:1.5s 47.0nm MPV=5.3 Probably underground explosion
6.	-iP e e iS eSS eSSS LmH LmV	19 35 11.5 35 26 35 36 45 31 50 55 54 33 20 16.9 16.9	<u>Kyushu, Japan</u> 30.98 N 131.86 E H = 19 22 47.9 h = 39 km MAG=5.7 D = 83.1 Az = 326.4 (USCGS) PV:1.3s 106.0nm SH(B):10.5s 1.2 $\mu$ m LmH:18s 9.2 $\mu$ m LmV:18s 12.5 $\mu$ m MPV=5.9 MSH=6.0 MLH=6.2 MLV=6.4
6.	eP	20 33 28	<u>Northern Italy</u> 44.1 N 8.3 E H = 20 31 20 (BCIS)
6.	eP	23 33 51.5	<u>Kodiak Islands</u> 56.41 N 153.89 W H = 23 22 25.1 h = normal MAG=3.9 D = 72.6 Az = 9.6 (USCGS) PV:0.9s 9.4nm MPV=4.9
7.	ePKP	02 20 30	<u>Fiji Islands</u> 19.02 S 178.27 W H = 02 01 56.2 h = 649 km MAG=4.6 D = 147.5 Az = 348.3 (USCGS)
7.	eP	08 38 33	<u>Kodiak Islands</u> 56.58 N 153.36 W H = 08 27 09.1 h = 44 km MAG=4.3 D = 72.4 Az = 10.0 (USCGS)
7.	ePn ePg e e e	16 51 46.5 52 10 53 08 53 38.5 53 53 54 21	<u>Northern Italy</u> 44.1 N 8.3 E H = 16 49 58 (BCIS) D = 7.0

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Moxa

Day	Phase	h m s	Remarks
8.	ePKP e LmH LmV	00 36 06 39 23 01 59.0 59.0	<u>New Hebrides Islands</u> 17.62 S 167.72 E H = 00 16 38.0 h = 20 km MAG=5.0 D = 141.9 Az = 335.3 (USCGS) PV:1.3s 11.1nm
8.	eP	02 13 33	<u>Hokkaido, Japan</u> 45.43 N 142.68 E H = 02 02 23.6 h = 326 km MAG=4.7 D = 75.3 Az = 330.3 (USCGS) PV:1.4s 43.0nm MPV=5.1
8.	e	12 21 28	
8.	ePKP	13 49 33	<u>New Hebrides Islands</u> 17.53 S 167.77 E H = 13 30 05.9 h = 28 km MAG=4.7 D = 141.9 Az = 335.4 (USCGS)
8.	eP -eIPKIKP ePP ePPP ePS LmV LmH	15 27 24 31 10 32 20 34 52 42 14 16 25.2 27.5	<u>Near North Coast of New Guinea</u> 3.73 S 142.98 E H = 15 12 23.8 h = 29 MAG=6.0 (USCGS) D = 118.1 PV2:1.3s 66.7nm LmV:17s 9.3 $\mu$ m LmH:17s 6.5 $\mu$ m MLV=6.5 MLH=6.3
8.	e	16 07 48	
8.	+iP	20 21 46	<u>Kurile Islands</u> 45.96 N 151.41 E H = 20 09 51.2 h = 31 km MAG=5.0 D = 77.7 Az = 335.1 (USCGS) PV:1.0s 28.4nm MPV=5.4
8.	ePKP2	22 07 46	<u>Fiji Islands</u> 19.19 S 176.39 W H = 21 48 13.2 h = 146 km MAG=4.4 D = 148.0 Az = 350.4 (USCGS) PV:1.5s 20.1nm
8.	e	23 02 17	

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Moxa

Day	Phase	h m s	Remarks
9.	eP	00 48 23	<u>Peru-Brazil Border Region</u> 8.67 S 74.48 W H = 00 35 18.4 h = 144 km MAG=5.3 D = 94.2 Az = 39.6 (USCGS) PV:2.0s 39.7nm MPV=5.4
9.	eP epP e ePP e iSKS eS isS LmH LmV	00 50 50 51 26 51 36 54 38 58 46 01 01 16 01(49) 02 24 26.8 37.0	<u>Peru-Brazil Border Region</u> 8.73 S 74.52 W H = 00 37 43.3 h = 120 km MAG=6.0 D = 94.2 Az = 39.6 PV:2.2s 202.0nm LmH:18s 0.4 $\mu$ m LmV:17s 0.5 $\mu$ m MPV=6.1
9.	e	01 28 10	
9.	-iP +i	02 30 45.5 30 49.5	<u>Eastern Siberia</u> 66.07 N 142.09 E H = 02 20 57.9 h = normal MAG=5.1 D = 57.6 Az = 325.0 (USCGS) PV1:1.2s 23.0nm PV2:1.2s 48.5nm MPV1=5.1 MPV2=5.4
9.	ePKP	02 54 07	<u>New Hebrides Islands</u> 17.52 S 167.79 E H = 02 34 33.0 h = 28 km MAG=4.6 D = 141.9 Az = 335.4 (USCGS)
9.	eP i e e LmH LmV	05 05 56 06 02 06 06 06 24 44.6 44.6	<u>Kenai Peninsula, Alaska</u> 58.98 N 149.19 W H = 04 54 46.0 h = 17 km MAG=5.2 D = 69.6 Az = 12.9 (USCGS) PV1:1.0s 14.2nm PV2:1.4s 67.5nm PV3:1.1s 21.6nm LmH:15.5s 0.4 $\mu$ m LmV:15s 0.4 $\mu$ m MPV1=5.1 MPV2=5.6 MPV3=5.2 MLH=4.7 MLV=4.9
9.	e	15 34 24.5	

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Moxa

Day	Phase	h m s	Remarks
10.	eP	01 52(37)	<u>Turkey</u> 41.73 N 32.41 E H = 01 48 41.4 h = normal MAG=4.2 D = 16.9 Az = 308.9 (USCGS)
10.	eP LmH LmV	20 39 20 59.2 21 02.0	<u>Iran</u> 33.97 N 59.36 E H = 20 31 58.6 h = 18 km MAG=4.7 D = 38.3 Az = 310.5 (USCGS) PV:1.5s 16.8nm LmH:16s 0.4 $\mu$ m LmV:12.5s 0.3 $\mu$ m MPV=4.6 MLH=4.3 MLV=4.4
10.	eP eS LmH LmV	23 26 33 37 05 24 07.8 07.9	<u>Near Coast of Chiapas, Mexico</u> 14.31 N 92.94 W H = 23 13 47.0 h = 72 km MAG=5.0 D = 88.0 Az = 38.1 (USCGS) LmH:18s 1.0 $\mu$ m LmV:18s 1.0 $\mu$ m MLH=5.3 MLV=5.3
11.	eiP	03 17 35.5	<u>Tibet</u> 30.25 N 94.89 E H = 03 07 32.0 h = 38 km MAG=4.3 D = 63.2 Az = 314.9 (USCGS)
11.	eP e	18 45 26 45 33.5	<u>Off Coast of Southern Chile</u> 43.01 S 75.22 W H = 18 26 36.8 h = 31 km MAG=5.7 D = 119.9 Az = 47.2 (USCGS) PV:1.1s 16.8nm
11.	eP A iP B ePP eS LmH LmV	19 24 33 24 35 26 04 30 28 44.5 47.5	<u>Iran</u> 33.88 N 59.42 E H = 19 17 13.0 h = normal MAG=5.2 D = 38.4 Az = 310.6 (USCGS) PV:2.8s 393.0nm LmH:15s 11.0 $\mu$ m LmV:13.5s 4.8 $\mu$ m MPV=5.6 MLH=5.8 MLV=5.6

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Moxa

Day	Phase	h m s	Remarks
11.	eP LmH LmV	21 59 47 22 42.5 42.5	<u>Taiwan</u> 23.98 N 122.34 E H = 21 47 21.9 h = 42 km MAG=5.0 D = 83.9 Az = 323.2 (USCGS) PV:1.2s 10.2nm LmH:17s 0.7 $\mu$ m LmV:16s 0.6 $\mu$ m MPV=4.9 MLH=5.1 MLV=5.1
12.	eIP e LmH LmV	13 48 42 48 51 14 23.0 42.7	<u>Off East Coast of Honshu, Japan</u> 39.71 N 143.61 E H = 13 36 27.5 h = 12 km MAG=5.2 D = 80.7 Az = 331.3 (USCGS) PV:1.2s 20.4nm LmH:17.5s 1.3 $\mu$ m LmV:15s 1.0 $\mu$ m MPV=5.0 MLH=5.3 MLV=5.3
12.	eP LmV LmH	15 45 16.5 16 06.1 06.2	<u>Southern Sinkiang Prov., China</u> 39.76 N 77.81 E H = 15 36 48.8 h = 8 km MAG=4.9 D = 46.4 Az = 306.5 (USCGS) PV:1.5s 13.4nm LmV:15s 1.0 $\mu$ m LmH:15s 0.8 $\mu$ m MPV=4.8 MLV=5.0 MLH=4.8
12.	eIP	19 41 51	<u>Gulf of Alaska</u> 59.53 N 146.70 W H = 19 30 47.5 h = 25 km MAG=4.3 D = 68.8 Az = 14.6 (USCGS)
12.	-iPKIKP iPKHKP eIPKP2 epPKP esPKP ei	23 02 41.5 02 48.0 02 54 05 00 06 00 06 17	<u>Fiji Islands</u> 21.55 S 179.36 W H = 22 44 06.5 h = 635 km MAG=5.9 D = 149.7 Az = 346.1 (USCGS) PV:1.3s 150.0nm
13.	ePKIKP ePKP2 LmV LmH	05 21(45) 22 21 06 45.6 46.1	<u>Kermadec Islands</u> 30.76 S 179.08 W H = 05 01 50.3 h = 38 km MAG=5.0 D = 158.6 Az = 341.1 (USCGS) LmV:18s 0.7 $\mu$ m LmH:17.5s 0.7 $\mu$ m MLH=5.5

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Moxa

Day	Phase	h m s	Remarks
13.	eP	07 43 31.5	<u>Near Coast of Chiapas, Mexico</u> 15.14 N 93.90 W H = 07 30 43.6 h = 34 km MAG=5.1 D = 88.0 Az = 37.9 (USCGS)
13.	ePKIKP	13 09 09.5	<u>Santa Cruz Islands</u> 11.07 S 164.64 E H = 12 49 54.8 h = 59 km MAG=5.4 D = 134.8 Az = 336.0 (USCGS)
13.	eP e LmH LmV	21 59 59 22 00 07 10.7 10.9	<u>North Atlantic Ocean</u> 57.89 N 32.37 W H = 21 54 26.5 h = normal MAG=4.5 D = 26.3 Az = 86.8 (USCGS) PV:1.8s 30.6nm LmH:16s 1.2 $\mu$ m LmV:16s 1.4 $\mu$ m MPV=4.6 MLH=4.5 MLV=4.7
14.	eP	01 38 45	<u>South Indian Ocean</u> 24.51 S 80.44 E H = 01 25 19.1 h = normal MAG=5.5 D = 96.2 Az=323.3 (USCGS)
14.	eP	01 43 15	<u>North Arlantic Ocean</u> H = 01 37 44 (UPP)
14.	eP LmH LmV	01 44 17 54.7 54.7	<u>North Atlantic Ocean</u> 57.93 N 32.59 W H = 01 38 44.9 h = normal MAG=5.3 (USCGS) D = 26.5 LmH:17s 3.2 $\mu$ m LmV:16.5s 4.2 $\mu$ m MLH=4.9 MLV=5.2
14.	-iP i i ePP iS eSS e eSSS eiSeS LmV LmH	13 55 49.5 55 50 55 53 57 20 14 01 44 04 14 04 25 04 56 06 00 13.7 15.9	<u>Southern Iran</u> 28.44 N 53.11 E H = 13 48 31.2 h = normal MAG=5.8 D = 38.2 Az = 317.1 (USCGS) PV2:1.6s 53.0nm PV3:2.2s 36.9nm LmV:18s 13.5 $\mu$ m LmH:16.5s 13.4 $\mu$ m MPV2=5.0 MPV3=5.7 MLV=5.9 MLH=5.8

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Moxa

Day	Phase	h m s	Remarks
14.	eP LmV LmH	19 27 41.5 46.8 48.0	<u>Southern Iran</u> 28.36 N 53.15 E H = 19 20 22.7 h = 44 km MAG=5.1 D = 38.3 Az = 317.1 (USCGS) PV:1.2s 12.8nm MPV=4.5
15.	LmH LmV	00 11.4 16.5	Probably <u>Luzon, Philippine Islands</u> (USCGS) LmH(C):24s 0.4/um LmV(C):20s 0.3/um
15.	ePKIKP	03 28 13	<u>East New Guinea</u> 6.38 S 146.63 E H = 03 09 29.6 h = 111km MAG=5.2 D = 122.2 Az = 327.9 (USCGS)
15.	eP e eS LmH LmV	05 00 15 02 56 03 48 05.6 05.8	<u>Crete</u> 34.73 N 25.09 E H = 04 56 00.0 h = normal MAG=4.9 D = 18.7 Az = 332.4 (USCGS) LmH:16.5s 16.0/um LmV:13.5s 9.1/um MLH=5.4 MLV=5.4
15.	eP	09 49 37.5	<u>Iran</u> 34.00 N 59.41 E H = 09 42 14.6 h = 20 km MAG=4.9 D = 38.3 Az = 310.5 (USCGS)
15.	+eP e e e ePP e eS LmH LmV	11 02 19.5 02 30 02 41 02 53 05 15 05 30 12 18 37.8 43.6	<u>Off East Coast of Honshu, Japan</u> 40.89 N 143.17 E H = 10 50 11.8 h = 15 km MAG=5.4 D = 79.5 Az = 331.0 (USCGS) PV:1.6s 68.2nm LmH:16.5s 7.9/um LmV:17s 5.0/um MPV=5.4 MLH=6.1 MLV=6.0
15.	eP LmH LmV	14 25 08 45.0 45.6	<u>Tadzhik SSR</u> 37.17 N 72.74 E H = 14 16 55.8 h = normal MAG=5.2 D = 44.8 Az = 307.7 (USCGS) PV:2.0s 39.8nm MPV=5.0

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Day	Phase	h m s	Remarks
15.	eP	15 05 05	<u>Off East Coast of Honshu, Japan</u> 33.05 N 142.00 E H = 14 52 29.4 h = 53 km MAG=4.7 D = 85.9 Az = 330.9 PV:1.1s 9.6nm MPV=4.8
16.	eP	07 15 40	<u>Northwest Persia-USSR Border Region</u> 38.8 N 46.2 E H = 07 10 03 D = 27.0 (AN USSR) PV:2.0s 26.5nm MPV=4.6
16.	eP ePKIKP e +eiPP eiSKKS e(PKKP) ePS eiPPS i eiSS LmH LmV	14 11 06 14 27.5 14 32 16 09 23 05 24 19 25 52 27 38 32 12 33 12 15 07.2 14.7	<u>New Britain Region</u> 6.07 S 148.68 E H = 13 55 36.1 h = 59 km MAG=5.8 (USCGS) D = 123.5 PV:1.0s 19.0nm LmH:22.5s 45.1/um LmV:21s 49.0/um MLH=7.1 MLV=7.2 e 15 49 e 26 20
16.	ePKP	14 30 05	<u>Fiji Islands</u> 17.44 S 178.82 W H = 14 11 29.4 h = 583 km MAG=5.1 D = 145.8 Az = 348.2 (USCGS)
16.	ePKIKP	16 19 44.5	<u>New Britain</u> 6.03 S 148.79 E H = 16 00 53.1 h = 71 km MAG=5.3 D = 123.0 Az = 328.9 (USCGS)
16.	eiP e	18 36 56 37 07	<u>Unimak Island</u> 53.81 N 163.64 W H = 18 25 10.0 h = 25 km MAG=4.5 D = 75.8 Az = 3.1 (USCGS) PV:1.1s 19.2nm MPV=5.1

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Moxa

Day	Phase	h m s	Remarks
17.	eP	05 33 55	<u>Kurile Islands</u> 45.34 N 149.86 E H = 05 22 01.2 h = 42 km MAG=4.6 D = 77.8 Az = 334.3 (USCGS)
17.	ePn	12 17 57	<u>Northern Italy</u> 45.17 N 12.72 E
	e	18 31	H = 12 16 35.3 h = 43 km
	eSn	18 50	D = 5.5 Az = 352.7 (USCGS)
	i	19 01.5	
	iSg	19 22	
	i	19 41	
	LmH	20.0	
17.	e	14 12 18	
17.	e	16 39 02	
17.	e	17 50 41.5	
17.	e	18 08 06	
	e	08 11	
	e	09 21	
	LmV	25.1	LmV:18.5s 1.0 $\mu$ m LmH:17.5s 1.1 $\mu$ m
	LmH	27.0	
17.	e	19 32 30	
17.	eP	21 18 34.5	<u>Cyprus</u> 35.34 N 31.29 E
	LmH	28.0	H = 21 13 52.6 h = normal MAG=4.6
	LmV	28.3	D = 20.9 Az = 323.1 (USCGS)
			PV:1.0s 14.2nm
			MPV=4.3
18.	eP	04 06 15.5	<u>Crete</u> 34.77 N 25.13 E
	eS	09 44	H = 04 01 59.4 h = 35 km MAG=4.6
	LmH	12.8	D = 18.7 Az = 332.3 (USCGS)
	LmV	14.2	PV:0.8s 9.4nm
			LmH:15.5s 2.5 $\mu$ m LmV:12s 1.8 $\mu$ m
			MPV=4.1 MLH=4.6 MLV=4.7

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Moxa

Day	Phase	h m s	Remarks
18.	eP	06 22 04	<u>Turkey</u> 39.82 N 40.21 E
	e	22 22	H = 06 17 04.9 h = 37 km MAG=4.6
	e	23 07.5	D = 22.7 Az = 307.9 (USCGS)
	LmH	34.6	PV:1.0s 11.9nm
	LmV	34.9	LmH:13s 0.4 $\mu$ m LmV:13.5s 0.4 $\mu$ m
			MPV=4.4 MLH=4.1 MLV=4.1
18.	-eP	07 45 19.5	<u>Afghanistan-USSR Border Region</u> 37.24 N 71.88 E
			H = 07 37 21.8 h = 123 km MAG=5.0
			D = 44.2 Az = 307.6 (USCGS)
			PV:1.0s 16.6nm
			MPV=4.7
18.	ePKP	12 03 15	<u>New Hebrides Islands</u> 18.21 S 167.12 E
	e	05 08	H = 11 43 45.6 h = normal MAG=5.7
	LmV	13 09.7	D = 142.2 Az = 334.5 (USCGS)
			LmV:20s 0.4 $\mu$ m
18.	e	14 09 16	
18.	eSg	14 45 52	Explosion, <u>Adelebsen/GFR</u> 51°36.59'N 9°44.67'E
			H = 14 45 00.82 yield ca. 3.0 t
			(Hannover)
			D = 1.5
18.	e	23 14 47	
19.	eP	05 08 57	<u>Near East Coast of Eastern Russia</u> 49.43 N 140.16 E
	LmH	36.5	H = 04 57 40.3 h = normal MAG=4.9
			D = 71.0 Az = 328.2 (USCGS)
			PV:1.5s 16.8nm LmH:24s 1.0 $\mu$ m
			MPV=5.0 MLH=5.0

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Moxa

Day	Phase	h m s	Remarks
19.	eP	11 21 14	<u>North Atlantic Ridge</u> 30.67 N 41.86 W
	e	21 37	H = 11 13 07.4 h = normal MAG=4.9
	eS	27 46	D = 44.1 Az = 47.3 (USCGS)
	e	28 18	PV2:1.8s 56.0nm
	eSS	31 10	LmH:20s 1.5 $\mu$ m LmV:20s 1.6 $\mu$ m
	LmH	37.0	MPV=5.0 MLH=4.9 MLV=5.1
LmV	37.0		
19.	eP	20 27 07	<u>Cyprus</u> 35.19 N 31.26 E
	e	27 12	H = 20 22 25.4 h = 53 km MAG=4.5
	e	27 16.5	D = 21.0 Az = 323.3 (USCGS) PV:0.8s 7.1nm MPV=4.1
19.	eP	22 19 57.5	<u>Southern Iran</u> 28.35 N 53.23 E
	eS	25 48	H = 22 12 38.2 h = 34 km MAG=5.1
	LmV	39.0	D = 38.4 Az = 317.1 (USCGS) PV:1.4s 18.4nm LmV:12.5s 1.2 $\mu$ m MPV=4.6 MLV=5.0
20.	eP	06 11 15	<u>Near Coast of Venezuela</u> 10.74 N 62.67 W
	i	11 16.3	H = 06 00 03.5 h = 107 km MAG=6.2
	ipP	11 40	D = 71.8 Az = 40.2 (USCGS)
	i	11 42	
	isP	11 52	
	eS	20 30	
	i	20 31	
	esS	21 14	
	i	24 44	
	eisSS	25 56	
20.	eP	14 05 43	<u>Off East Coast of Honshu, Japan</u>
	LmH	39.6	40.65 N 143.50 E
	LmV	47.0	H = 13 53 35.9 h = 25 km MAG=4.9 D = 79.8 Az = 331.2 (USCGS) PV:1.4s 18.4nm LmH:16.5s 1.2 $\mu$ m LmV:16s 0.7 $\mu$ m MPV=4.8 MLH=5.3 MLV=5.1

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Moxa

Day	Phase	h m s	Remarks
20.	ePKHKP	18 49 08	<u>Kermadec Islands</u> 28.06 S 176.75 N
	e	49 18	H = 18 29 09.8 h = 70 km MAG=5.3
	e	49 26	D = 156.6 Az = 346.5 (USCGS)
	e	53 06.5	LmH:18s 0.9 $\mu$ m LmV:18s 0.8 $\mu$ m
	eSS	19 12 55	MLH=5.5 MLV=5.6
	LmH	20 07.3	
LmV	16.0		
20.	eP	22 37 47	<u>Honshu, Japan</u> 36.82 N 138.10 E
			H = 22 25 37.1 h = 59 km MAG=5.0
			D = 81.0 Az = 328.8 (USCGS) PV:1.4s 24.6nm MPV=5.0
20.	eP	23 14 52	<u>Mid-Indian Rise</u> 13.73 S 66.10 E
			H = 23 02 43.5 h = normal MAG=5.0 D = 79.8 Az = 328.2 (USCGS)
21.	+iP	13 17 55	<u>Hokkaido, Japan</u> 42.16 N 142.57 E
	ePP	20 50	H = 13 05 58.2 h = 33 km MAG=5.9
	e	27 28	D = 78.1 Az = 330.6 (USCGS)
	iS	27 44	PV:1.1s 91.4nm
	iPS	28 13	LmH:19s 47.2 $\mu$ m LmV:19.5s 54.0 $\mu$ m
	ei(SPP)	28 50	MPV=5.8 MLH=6.8 MLV=6.9
LmH	55.5		
LmV	55.5		
21.	i	16 01 52	
22.	ePKP	08 19 05	<u>Fiji Islands</u> 18.13 S 178.60 W
	e	19 07	H = 08 00 32.8 h = 630 km MAG=4.8 D = 146.5 Az = 348.2 (USCGS) PV:1.2s 15.3nm
22.	eP	09 33 28.5	<u>Luzon, Philippine Islands</u>
	e	33 34	15.73 N 121.86 E
	LmH	10 20.4	H = 09 20 26.4 h = 20 km MAG=5.3
	LmV	20.5	D = 90.3 Az = 323.3 (USCGS) LmH:14s 1.1 $\mu$ m LmV:14s 1.4 $\mu$ m MLH=5.5 MLV=5.6

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Moxa

Day	Phase	h m s	Remarks
22.	ePKP LmH	20 50 13 21 48.5	<u>Tonga Islands</u> 15.11 S 175.86 W H = 20 30 34.3 h = normal MAG=5.0 D = 144.0 Az = 351.9 (USCGS) LmH:20s 0.5/um MLH=5.3
22.	eP	22 23 02	
23.	e eSg	04 10 27 10 41	<u>Belgium</u> 50°2 N 4°4 E H = 04 08 12 (BCIS) D = 4.5
23.	eP e e eS LmH	05 15 59.5 16 09.5 16 13 26 00 50.0	<u>Off East Coast of Honshu, Japan</u> 40.30 N 143.48 E H = 05 03 50.0 h = 30 km MAG=4.8 D = 80.1 Az = 331.2 (USCGS) LmH(C):20s 4.8/um MLH=5.8
23.	eSg	05 49 43	<u>Belgium</u> 50°2 N 4°4 E H = 05 47 15 (BCIS) D = 4.5
23.	e	11 54 25.5	
23.	e	19 41 59	
23.	eP e	21 32 44.5 32 52	<u>Jordan-Syria Region</u> 36.39 N 40.71 E H = 21 27 19.9 h = 31 km MAG=4.4 D = 25.3 Az = 313.5 (USCGS)
24.	eP e	00 56 04 56 17.5	<u>Crete</u> 34.81 N 25.49 E H = 00 51 41.6 h = 67 km MAG=4.3 D = 18.8 Az = 331.7 (USCGS)
24.	eP eS LmH	03 46 58.5 57 00 04 21.4	<u>Off East Coast of Honshu, Japan</u> 40.25 N 143.65 E H = 03 34 48.5 h = 22 km MAG=5.1 D = 80.2 Az = 331.3 (USCGS) LmH:20s 6.7/um MLH=6.0

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Day	Phase	h m s	Remarks
24.	eP e	04 25 01.5 25 22	<u>Turkey</u> 39.22 N 40.16 E H = 04 19 54.6 h = 14 km MAG=5.1 D = 23.1 Az = 309.0 (USCGS) PV:1.3s 19.5nm MPV=4.5
24.	eIP e e	04 58 13.5 58 19 58 22	<u>Off East Coast of Honshu, Japan</u> 40.28 N 143.64 E H = 04 46 03.6 h = 26 km MAG=5.0 D = 80.2 Az = 331.3 (USCGS) PV:1.2s 20.4nm MPV=4.9
24.	e	08 25 41	
24.	e	20 28 48	
25.	ePKP ei	00 34 14 34 17	<u>Fiji Islands</u> 17.98 S 178.48 W H = 00 15 39.5 h = 582 MAG=4.7 D = 146.4 Az = 348.4 (USCGS)
25.	ePKIKP A e B e A ePKP2 B ePKP2 A LmH LmV	07 22 51 22 59 23 16.5 23 40 23 43 08 45.0 57.2	<u>Off W. Coast of S. Island, New Zealand</u> 46.39 S 166.78 E H = 07 02 51.8 h = normal MAG=5.5 D = 163.0 Az = 293.6 (USCGS) PV3:1.7s 26.4nm LmH(C):21s 2.3/um LmV:17s 2.9/um MLH=5.9
25.	eP e	08 20 56 21 00	<u>Eastern Mediterranean Sea</u> 35.36 N 28.03 E H = 08 16 30.7 h = 33 km D = 19.4 Az = 327.1 (USCGS)
25.	+eIP e Pm e e	B 10 51 07.5 A 51 10 A 51 14 A 51 37 B 51 40	<u>Mexico-Guatemala Border Region</u> 15.57 N 92.64 W H = 10 38 38.4 h = 138 km MAG=5.7 D = 86.9 Az = 38.2 (USCGS) PmV:1.6s 121.0nm

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Day	Phase	h m s	Remarks
cont.			
25.	ei	10 52 24	MPmV=5.6
	ePP	54 30	i 54 39 ei 55 05 e 11 00 54
	eiS	11 01 25	e 17 34
	ePS	02 35	
	ePKPPKP	17 04	
25.	ePKP	14 53 42	<u>Tonga Islands</u> 19.35 S 175.88 W
	epPKP	54 40.5	H = 14 34 22.6 h = 230 km MAG=5.0
	e	54 46	D = 148.2 Az = 350.9 (USCGS)
25.	eP	18 10 53	<u>Andreanof Islands, Aleutian Is.</u> 51.13 N 179.22 W H = 17 58 53.7 h = 22 km MAG=4.8 D = 78.2 Az = 353.0 (USCGS) PV:1.0s 14.2nm MPV=5.1
25.	eP	20 57 21	<u>Turkey</u> 39.23 N 40.16 E
	e	57 27.5	H = 20 52 15.9 h = 47 km MAG=5.1
	eS	21 01 32	D = 23.1 Az = 309.0 (USCGS)
	e	02 50	PV:1.3s 13.9nm
	LmH	07.4	LmH(C):20s 1.3 $\mu$ m LmV:12s 0.7 $\mu$ m
	LmV	08.7	MPV=4.3 MLH=4.4 MLV=4.5
25.	eP	21 48 44	<u>Hokkaido, Japan</u> 41.86 N 142.08 E
	epP	49 05	H = 21 36 51.1 h = 78 km MAG = 4.8
	e	49 10	D = 78.2 Az = 330.3 (USCGS) PV:1.0s 9.5nm MPV=4.7
26.	eP	00 54 28	<u>Afghanistan</u> 33.72 N 69.94 E
	e	54 36	H = 00 46 13.8 h = 45 km MAG=5.2
	e	54 41	D = 45.2 Az = 310.2 (USCGS)
	LmH	01 17.4	PV:1.1s 14.4nm
	LmV	17.4	LmH:14s 0.5 $\mu$ m LmV:14s 0.7 $\mu$ m MPV=4.8 MLH=4.6 MLV=4.8

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Day	Phase	h m s	Remarks
26.	ePKIKP	02 58 36	<u>Fiji Islands</u> 19.32 S 177.56 W
	ePKHKP	58 40	H = 02 39 56.5 h = 560 km MAG=5.2 D = 147.9 Az = 349.0 (USCGS) PV:1.4s 33.8nm
26.	eP	06 46 24	<u>Turkey</u> 38.63 N 32.96 E
			H = 06 42 01.2 h = 34 km MAG=4.8 D = 19.3 Az = 315.4 (USCGS)
26.	eP	08 35 36.5	<u>Kurile Islands</u> 45.49 N 151.36 E
			H = 08 23 41.0 h = 45 km MAG=4.7 D = 78.1 Az = 335.1 (USCGS) PV:1.2s 30.7nm MPV=5.3
26.	ePKP	08 59 56	<u>Fiji Islands</u> 17.74 S 178.53 W
	ei	59 58.5	H = 08 41 21.9 h = 578 km MAG=5.1
	PKPm	09 00 03	D = 146.2 Az = 348.4 (USCGS) PV:1.3s 33.4nm PmV:1.4s 154nm
26.	eP	11 12 37	<u>Kurile Islands</u> 45.39 N 151.23 E
			H = 11 00 41.6 h = 48 km MAG=3.9 D = 78.1 Az = 335.1 (USCGS) PV:1.2s 7.7nm
26.	eP	11 34 04	<u>Kurile Islands</u> 45.09 N 151.26 E
			H = 11 22 06.7 h = 45 km MAG=4.4 D = 78.4 Az = 335.1 (USCGS) PV:1.3s 22.2nm
26.	-iPKIKP	14 57 01	<u>Fiji Islands</u> 20.92 S 176.99 W
	iPKHKP	57 07	H = 14 37 46.2 h = 251 km MAG=5.8
	iPKP2	57 14	D = 149.6 Az = 349.2 (USCGS)
	epPKP B	58 04	PV1:1.3s 195.0nm PV2:1.3s 195.0nm
	epPKP A	58 07	
	ei B	58 10	
	esPKP	58 36	
	e	15 00 38	

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Day	Phase	h m s	Remarks
26.	+ePKIKP	18 22 43	<u>Kermadec Islands</u> 30.53 S 178.19 W
	iPKP2	23 20	H = 18 02 50.1 h = normal MAG=5.8
	ePP	27 00	D = 158.6 Az = 342.7 (USCGS)
	LmV	46.5	PV:2.5s 354.0nm
	LmH	49.3	LmV:20s 19.4/um LmH:19s 18.0/um MLH=6.8
26.	ePKP	20 58 35.5	<u>Fiji Islands</u> 21.30 S 178.36 W
			H = 20 39 32.7 h = 407 km MAG=4.3
			D = 149.7 Az = 347.4 (USCGS)
			PV:1.0s 7.1nm
27.	eP	04 13 24	<u>Banda Sea</u> 6.84 S 129.13 E
	ePKIKP	17 19	H = 03 58 55.1 h = 127 km MAG=6.1 (USCGS)
	eiPP B	18 08	D = 111.7
	ePP A	18 14	PV:1.2s 20.4nm
	iSKS	23 47	e 13 29 e 18 56(A) e 19 06(B)
	iSKKS	24 51	e 25 33 e 27 05 e 27 42
	ePKKP	28 10	
	eSPP	28 35	
	ePPS	29 00	
	eISS	33 44	
	eSSS	37 30	
27.	eiPg	09 14 30	Explosion
	eSg	14 49.5	D = ca. 1.5
27.	-iP	10 45 54	<u>Tadzhik SSR</u> 37.81 N 72.33 E
	epP	46 20	H = 10 37 55.9 h = 119 km MAG=5.2
	esP	46 39	D = 44.2 Az = 307.1 (USCGS)
	e	48 15	PV:1.2s 71.5nm LmH(C):40s 0.5/um
	eSS	55 32	MPV=5.3
	LmH	11 01.0	
27.	ePKP A	17 00 56.5	<u>Kermadec Islands</u> 30.72 S 178.16 W
	ePKP B	01 00	H = 16 41 07.8 h = normal MAG=5.4
	ePKP2 B	01 35	D = 158.8 Az = 342.6 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
27.	ePKP2	17 01 39	LmH:16s 0.7/um LmV:20s 1.6/um
	ePP	05 18	MLH=5.5
	eSKSP	15 40	
	eSS	25 25	
	LmH	18 21.5	
	LmV	24.2	
27.	ePKIKP	19 25 32	<u>Near North Coast of New Guinea</u>
	ePP	26 54	3.68 S 143.30 E
	eiS	35 35	H = 19 06 42.2 h = 7 km MAG=5.9
	eiPS	36 35	D = 118.1 Az = 327.4 (USCGS)
	ePPS	37 45	PV:1.3s 11.1nm
	eSS	43 00	LmV:18.5s 13.6/um LmH:18s 7.0/um
	eSSS	47 28	MLV=6.6 MLH=6.3
	e	48 10	e 26 40 e 27 20 e 27 50 e 43 15
	LmV	20 21.1	
	LmH	21.3	
27.	ePKP2	23 08 10.5	<u>Kermadec Islands Region</u> 30.94 S 177.75 W
			H = 22 47 36.3 h = normal MAG=4.6 (USCGS)
			D = 158.2
			PV:1.1s 16.9nm
28.	eP	00 56(50)	<u>Turkey</u> 40.46 N 26.40 E
	e	57 02	H = 00 53 25.9 h = 28 km MAG=4.4 (USCGS)
	LmH	01 02.0	D = 14.5
			LmH:12.5s 2.9/um
			MLH=4.6
28.	eP	09 34 08.5	<u>West Pakistan</u> 27.58 N 66.85 E
	e	36 06.5	H = 09 25 36.6 h = normal MAG=5.2
			D = 47.4 Az = 314.7 (USCGS)
			PV:1.0s 16.6nm
			MPV=5.1

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Day	Phase	h m s	Remarks
28.	eP LmH LmV	10 07 47 53.3 53.4	<u>Philippine Islands</u> 15.86 N 122.57 E H = 09 54 45.9 h = 27 km MAG=5.2 D = 90.6 Az = 323.5 (USCGS) PV:1.3s 13.9nm LmH:18.5s 2.8/um LmV:17.5s 3.2/um MPV=5.0 MLH=5.7 MLV=5.8
28.	eP epP ePP ISKS ePS LmH LmV	14 07 12 07 27 11 25 17 45 20 24 53.3 53.5	<u>Near Coast of Peru</u> 13.16 S 76.38 W H = 13 53 35.3 h = 70 km MAG=6.0 D = 98.8 Az = 40.1 (USCGS) PV:1.2s 10.2nm SH(B):10.5s 2.8/um LmH:18s 2.6/um LmV:17s 3.1/um MPV=5.3 MLH=5.8 MLV=5.9 e 08 02 e 08 15
28.	eiP	18 32 23.5	<u>Hokkaido, Japan</u> 42.03 N 142.13 E H = 18 20 30.6 h = 76 km MAG=4.8 D = 78.1 Az = 330.4 (USCGS)
29.	+iP iPn e	03 50 46.5 52 18.5 04 05 22	<u>Eastern Kazakh SSR</u> 49.77 N 78.19 E H = 03 42 57.5 h = 0 km MAG=5.8 D = 41.3 Az = 297.7 (USCGS) PV:0.7s 308.0nm MPV=6.1 Probably underground explosion
29.	ePKIKP	13 02 48	<u>New Hebrides Islands</u> 15.48 S 167.27 E H = 12 43 39.9 h = 190 km MAG=4.6 D = 139.8 Az = 336.0 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
1.	eP e e	16 33 31 33 36.5 33 48	<u>Southern Italy</u> 40.20 N 15.45 E H = 16 31 03.1 h = 291 km MAG=4.2 D = 10.8 Az = 346.9 (USCGS)
2.	LmH	08 22.0	<u>Probably South Sandwich Islands Region</u> (USCGS) LmH(C):20s 0.2/um
2.	eP	09 22 03	<u>Bonin Islands</u> 27.25 N 140.13 E H = 09 09 50.8 h = 436 km MAG=4.8 D = 90.1 Az = 330.1 (USCGS) PV:1.2s 15.3nm MPV=4.8
2.	ePg eSg	12 55 46 55 58.5	Explosion D = ca. 1.0
2.	ePKP e	13 40 32.5 40 34.5	<u>Fiji Islands</u> 17.64 S 178.81 W H = 13 21 56.5 h = 560 km MAG=4.4 D = 146.0 Az = 348.1 (USCGS) PV2:1.3s 25.0nm
2.	ePg eSg	14 05 51.5 06 07.5	Explosion, <u>Bransrode/MeiBner/GFR</u> 51°13.92'N 9°51.37'E H = 14 05 27.09 yield 14.0 t (Hannover) D = ca. 1.2
2.	ePKHKP ePKP2 e	21 34 49 34 56 35 44	<u>Fiji Islands</u> 21.59 S 176.76 W H = 21 15 31.5 h = 300 km MAG=4.2 D = 150.3 Az = 349.2 (USCGS) PV:1.0s 9.5nm
3.	ePP e	08 23 53 24 30	<u>Ceram</u> 3.76 S 128.47 E H = 08 04 55.6 h = 97 km MAG=5.6 (USCGS) D = 109.7
3.	eiP epP	11 20 34 20 47	<u>Andreanof Islands, Aleutian Is.</u> 51.63 N 174.10 W H = 11 08 38.9 h = 46 km MAG=5.0 D = 78.0 Az = 356.3 (USCGS) PV:1.0s 38.0nm MPV=5.5

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Day	Phase	h m s	Remarks
3.	ePKP2	12 38 43	<u>South of Kermadec Islands</u> 33.62 S 179.22 W H = 12 18 05.0 h = normal MAG=5.3 (USCGS) D = 161.0
3.	ePg eiSg	14 45 30 45 51	Explosion <u>Adelebsen/GFR</u> 51°36.51' N 9°44.61' E H = 14 45 01.00 yield 5.9 t (Hannover) D = 1.5
3.	e LmH LmV	18 24 09 19 05.5 08.8	<u>Philippine Islands</u> 15.99 N 123.20 E H = 18 11 01.6 h = 35 km MAG=5.1 D = 90.8 Az = 323.7 (USCGS) LmH(C):20s 0.7 $\mu$ m LmV(C):24s 0.8 $\mu$ m MLH=5.1 MLV=5.1
4.	eP e e LmH LmV	00 52 01 52 05 52 21 01 29.4 30.0	<u>Hokkaido, Japan</u> 41.65 N 142.78 E H = 00 40 02.2 h = 54 km MAG=5.0 D = 78.7 Az = 330.7 (USCGS) LmH(C):20s 1.0 $\mu$ m LmV(C):19s 1.2 $\mu$ m MLH=5.2 MLV=5.3
4.	eP	04 36 18	<u>Off East Coast of Honshu, Japan</u> 40.31 N 143.30 E H = 04 24 09.8 h = 31 km MAG=4.5 D = 80.0 Az = 331.1 (USCGS)
4.	ePKP	05 17 20	<u>Tonga Islands</u> 20.03 S 175.42 W H = 04 57 58.8 h = 243 km MAG=4.0 D = 148.9 Az = 351.3 (USCGS)
4.	ePKIKP ePP eSS LmH LmV	06 23 00 23 33 39 25 07 01.0 02.0	<u>South Sandwich Islands</u> 56.24 S 27.03 W H = 06 04 31.9 h = 63 km MAG=5.9 D = 111.2 Az = 25.2 (USCGS) LmH:28s 4.0 $\mu$ m LmV:25s 4.2 $\mu$ m

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Day	Phase	h m s	Remarks
4.	ePKIKP	07 09 24	<u>Banda Sea</u> 7.29 S 129.72 E H = 06 50 50.9 h = 52 km MAG=5.3 D = 113.2 Az = 322.3 (USCGS)
4.	ePKP e	07 48 05 48 13	<u>Tonga Islands</u> 17.39 S 172.75 W H = 07 28 27.1 h = normal MAG=5.0 D = 146.6 Az = 354.9 (USCGS) PV:1.4s 104.0nm
4.	i(Pg) i(Sg)	14 39 24 39 42	Explosion, <u>Eschenlohe/Obb./GFR</u> 11°08.80' E 47°37.90' N H = 14 05 00 yield 12.3 t (Hannover)
4.	eSg	16 06 32.5	Explosion, <u>Mehrberg, Rhein/GFR</u> 50°36.54' N 7°17.85' E H = 16 05.0 yield 4.2 t (Hannover) D = 2.7
4.	+eiP e	16 38 15 38 22	<u>Southern Alaska</u> 61.30 N 147.21 W H = 16 27 24.5 h = 44 km MAG=4.5 D = 67.1 Az = 14.5 (USCGS) PV:1.0s 21.3nm MPV=5.3
5.	ePKP epPKP	05 09 53 10 32	<u>Tonga Islands</u> 17.23 S 174.21 W H = 04 50 30.2 h = 160 km MAG=4.6 D = 146.3 Az = 353.0 (USCGS)
5.	iP i LmH	15 18 32.8 18 53.8 28.5	<u>Caspian Sea</u> 41.68 N 49.46 E H = 15 12 51.0 h = 50 km MAG=5.1 D = 27.4 Az = 302.1 (USCGS) PV:1.2s 7.7nm MPV=4.3
6.	e	00 44 39	<u>Southern Greece</u> 36.91 N 21.86 E H = 00 40 44.0 h = 55 km MAG=4.3 D = 15.6 Az = 335.1 (USCGS)

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Day	Phase	h m s	Remarks
6.	ePKP e e e	03 11 13 11 16 11 31 11 40.5	<u>Tonga Islands</u> 15.65 S 173.19 W H = 02 51 46.1 h = 106 km MAG=5.0 D = 144.9 Az = 354.7 (USCGS)
6.	ePKP	05 34 45	<u>Tonga Islands</u> 15.01 S 175.48 W H = 05 15 11.5 h = normal MAG=5.3 D = 144.0 Az = 352.3 (USCGS)
6.	eP e e	07 54 08 54 35 54 43	<u>Andaman Islands</u> 9.97 N 93.66 E H = 07 42 25.2 h = 111 km MAG=5.1 D = 77.3 Az = 319.7 (USCGS) PV:1.3s 13.9nm
6.	e(Pg) e	09 00 51 01 23	Probably Explosion
6.	ePKP e e e eSS LmH LmV	09 06 35 06 54 08 07 09 56 28 27 10 12.9 29.0	<u>Samoa Islands</u> 14.73 S 175.61 W H = 08 47 02.0 h = 35 km MAG=5.4 D = 143.7 Az = 352.2 (USCGS) PV:2.0s 39.7nm LmH:19s 2.1 $\mu$ m LmV:16s 2.5 $\mu$ m MLH=5.9
6.	ePKP	09 34 31	<u>Samoa Islands</u> 14.77 S 175.10 W H = 09 15 01.1 h = normal MAG=5.0 D = 143.8 Az = 352.8 (USCGS)
6.	eP ei e LmH LmV	15 10 46 10 51 11 01 18.2 18.2	<u>Dodekanese Islands</u> 36.94 N 26.52 E H = 15 06 44.8 h = 40 km MAG=4.7 D = 17.4 Az = 326.7 (USCGS) LmH:12s 1.4 $\mu$ m LmV:11.5s 1.8 $\mu$ m MLH=4.4 MLV=4.7
6.	eP e ePP	19 52 57 53 37 56 19	<u>South of Honshu, Japan</u> 31.72 N 140.22 E H = 19 40 26.2 h = 109 km MAG=5.2 D = 86.3 Az = 330.1 (USCGS) PV:1.1s 9.6nm PPV:1.3s 13.9nm MPV=4.6

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Day	Phase	h m s	Remarks
6.	eP e	22 11 32 11 38	<u>Turkey</u> 38.80 N 32.61 E H = 22 07 10.9 h = 39 km MAG=4.8 D = 19.0 Az = 315.4 (USCGS)
7.	LmH LmV	01 37.0 37.0	Probably <u>Bismarck Sea</u> (USCGS) LmH:16s 0.4 $\mu$ m LmV:18s 0.5 $\mu$ m
7.	-iP eP epP esP ePP epPP eSS eSSSS LmV LmH	A 19 32 30 B 32 32 34 27 35 22 36 06 38 05 49 02 56 00 20 15.5 15.7	<u>Bonin Islands</u> 26.29 N 140.60 E H = 19 20 20.4 h = 516 km MAG=6.1 D = 91.1 Az = 330.3 (USCGS) PV1:1.1s 264.0nm PH2(B):14s 7.4 $\mu$ m PV2(B):14s 19.7 $\mu$ m LmV:20s 95.0 $\mu$ m LmH:18s 75.0 $\mu$ m MPV=6.1 e 36 15 e 38 47 e 41 31 e 42 07 e 46 06 e 56 32
7.	e	19 59 38	<u>Bonin Islands</u> 26.34 N 140.84 E H = 19 47 02.6 h = 496 km MAG=4.7 D = 91.2 Az = 330.4 (USCGS)
7.	+iP e	21 01 00 01 19.5	<u>Hokkaido, Japan</u> 42.01 N 142.41 E H = 20 49 01.3 h = 32 km MAG=5.7 D = 78.2 Az = 330.5 (USCGS)
8.	eP epP e	01 02 59 03 22 03 26	<u>Near South Coast of Honshu, Japan</u> 35.57 N 139.94 E H = 00 50 41.8 h = 76 km MAG=5.3 D = 82.8 Az = 329.8 (USCGS)
8.	ePKP +iPP e iPS e e eSS	08 01 56 02 32 03 00 12 16 13 28 14 12 18 16	<u>Southeast Indian Rise</u> 39.86 S 87.92 E H = 07 43 23.1 h = normal MAG=6.0 D = 112.0 Az = 318.2 (USCGS) PV:1.4s 15.3nm LmH(C):50s 6.7 $\mu$ m LmV(C):48s 7.5 $\mu$ m MLH=5.8 MLV=5.9

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Day	Phase	h m s	Remarks
cont.			
8.	eSSS	08 22 20	
	LmH	39.0	
	LmV	39.2	
9.	ePKP	03 58 18	<u>Samoa Islands</u> 14.73 S 175.50 W
	e	58 25	H = 03 38 39.9 h = 11 km MAG=5.2
	LmH	05 02.2	D = 143.7 Az = 352.3 (USCGS)
	LmV	02.5	LmH:20s 1.8 $\mu$ m LmV:20s 1.5 $\mu$ m MLH=5.8
9.	ePKP	17 30 15.5	<u>Tonga Islands</u> 15.03 S 175.46 W
			H = 17 10 37.2 h = normal MAG=5.0
			D = 144.0 Az = 352.3 (USCGS)
10.	ePKIKP	15 24 42	<u>New Britain Region</u> 6.00 S 148.63 E
	eSS	43 18	H = 15 05 51.7 h = 70 km MAG=5.1
	LmH	16 19.5	D = 122.9 Az = 328.9 (USCGS)
	LmV	19.5	LmH:22s 3.5 $\mu$ m LmV:22s 4.0 $\mu$ m
12.	LmH	13 02.5	Probably <u>Ryukyu Islands</u> (USCGS)
			LmH(C):18.5s 2.7 $\mu$ m
12.	ePKIKP	19 36 16.5	<u>Fiji Islands</u> 20.88 S 178.78 W
	iPKHKP	36 21.8	H = 19 17 39.9 h = 607 km MAG=5.7
	ePKP2	36 28	D = 149.2 Az = 347.0 (USCGS)
	epPKP	38 44	PV1:1.8s 133.0nm PV2:1.7s 624.0nm
12.	ePKP	20 45 43	<u>Tonga Islands</u> 17.21 S 174.96 W
			H = 20 26 22.9 h = 174 km MAG=4.0
			D = 146.2 Az = 352.5 (USCGS)
			PV:1.7s 35.1nm
12.	eP	23 28 08	<u>Hindu Kush Region</u> 36.41 N 70.80 E
	ePP	29 54	H = 23 20 19.3 h = 203 km MAG=5.3
	e	30 02	D = 44.0 Az = 308.1 (USCGS)
	e	30 12	PV:2.0s 92.8nm
	e	30 19	MPV=5.5

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Day	Phase	h m s	Remarks
13.	e	10 35 46	<u>Hokkaido, Japan Region</u> 41.61 N 142.62 E
			H = 10 23 48.8 h = 40 km MAG=4.6 (USCGS)
			D = 78.6
13.	eP	20 09 57	<u>Fiji Islands</u> 19.59 S 177.68 W
			H = 19 50 52.9 h = 338 km MAG=4.2
			D = 148.1 Az = 348.8 (USCGS)
14.	ePKP	00 56 46	<u>Tonga Islands</u> 19.88 S 173.81 W
			H = 00 37 06.2 h = 44 km MAG=4.5
			D = 149.0 Az = 353.3 (USCGS)
14.	ePKIKP	03 17 47	<u>Western Australia</u> 31.52 S 116.97 E
	eI	17 50.5	H = 02 58 47.8 h = 0 km MAG=6.0
	i	17 52.3	D = 123.0 Az = 312.9 (USCGS)
	ePP A	19 28	PV2:1.2s 40.8nm PV3:1.6s 110.0nm
	ePP B	19 32	LmV:19s 10.2 $\mu$ m LmH:20s 12.3 $\mu$ m
	e(PPPP)	24 16	MLV=6.5 MLH=6.6
	ePS	29 30	
	e	34 35	
	eSS	36 10	
	eIPSPS	36 40	
	eSSS	41 00	
	LmV	04 12.4	
	LmH	12.8	
14.	eP	05 34 31	<u>Andaman Islands</u> 12.55 N 95.16 E
	e	34 34.5	H = 05 22 44.3 h = normal MAG=5.5
	e	34 37.5	D = 76.3 Az = 319.4 (USCGS)
	LmV	06 13.5	PV2:1.4s 30.7nm
	LmH	14.3	LmV:15.5s 1.2 $\mu$ m LmH:16s 1.3 $\mu$ m MPV2=5.2 MLV=5.3 MLH=5.3
14.	eP	09 23 39	<u>Near East Coast of Honshu, Japan</u>
	epP	23 50.5	38.22 N 142.09 E
	esP	23 57	H = 09 11 27.5 h = 69 km MAG=5.0
	LmH	10 02.8	D = 81.4 Az = 330.7 (USCGS)
	LmV	02.9	PV:1.4s 39.9nm LmH:18s 1.4 $\mu$ m LmV:18s 1.4 $\mu$ m

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Day	Phase	h m s	Remarks
14.	ePg e eSn e e	16 34 58 35 17 35 33 35 38 35 44	<u>Tyrol, Austria</u> 47.4 N 11.5 E H = 16 33 45 (BCIS) D = 3.8
14.	e LmH LmV	17 45 18.5 18 26.3 26.4	<u>Taiwan</u> 24.15 N 121.59 E H = 17 32 37.7 h = 43 km MAG=4.8 (USCGS) D = 83.3 LmH:14.5s 0.7 $\mu$ m LmV:16s 0.8 $\mu$ m MLH=5.2 MLV=5.2
15.	+iP e e e eS LmH LmV	02 23 23.7 23 39 23 49 23 54 34 05 03 03.9 04.1	<u>Southern Sumatra</u> 0.53 S 100.64 E H = 02 10 34.4 h = 98 km MAG=5.6 D = 89.8 Az = 320.5 (USCGS) PV:1.4s 117.0nm LmH:18s 0.4 $\mu$ m LmV:20s 0.5 $\mu$ m MPV=5.8
15.	e e e e	19 20 17 20 34 20 37.5 20 44	<u>Tyrol, Austria</u> 47.3 N 11.1 E H = 19 18 50 (BCIS) D = 3.4
15.	eP eS eSS LmH LmV	20 22 40 34 00 41 10 21 02.5 13.2	<u>Mindanao</u> 9.00 N 126.29 E H = 20 09 08.7 h = 63 km MAG=5.2 D = 98.2 Az = 324.2 (USCGS) PV:1.2s 12.8nm LmH:20s 0.6 $\mu$ m LmV:18s 0.4 $\mu$ m MPV=5.4
16.	e	01 21 47.5	<u>North Atlantic Ridge</u> 22.81 N 45.03 W H = 01 12 22.7 h = normal MAG=4.4 D = 51.7 Az = 42.7 (USCGS)
16.	iP e eS	07 58 14.7 58 20 08 08 40	<u>Ryukyu Islands</u> 29.25 N 129.36 E H = 07 45 46.9 h = 13 km MAG=5.6 D = 83.3 Az = 325.4 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
16.	LmH LmV	08 33.8 39.1	PV:2.0s 92.7nm LmH:16s 12.2 $\mu$ m LmV:14s 5.5 $\mu$ m MPV=5.7 MLH=6.4 MLV=6.1
16.	iPg eSg	14 17 48 18 03	Explosion D = ca. 1.1
17.	LmH LmV	06 13.8 21.4	Probably <u>New Ireland Region</u> (USCGS) LmH(C):26s 1.2 $\mu$ m LmV(C):25s 1.1 $\mu$ m
17.	e ePP	07 07 13 11 03.5	<u>Mariana Islands</u> 18.70 N 146.42 E H = 06 53 16.7 h = 70 km MAG=4.9 D = 100.3 Az = 332.7 (USCGS)
17.	e	22 27 14	<u>South of Fiji Islands</u> 23.74 S 179.78 W H = 22 08 12.1 h = 450 km MAG=3.8 D = 151.7 Az = 344.6 (USCGS)
17.	eP e i e LmH LmV	23 59 21 59 26 59 37 00 00 37 05.7 06.0	<u>Greece</u> 38.30 N 20.19 E H = 23 56 05.5 h = 29 km MAG=4.5 D = 13.8 Az = 336.5 (USCGS) PV:0.7s 16.6nm LmH(C):14s 0.7 $\mu$ m LmV(C):16s 0.6 $\mu$ m MLH=3.9
18.	eP e LmH LmV	06 06 29.5 06 35.5 40.7 47.8	<u>Taiwan</u> 24.88 N 122.25 E H = 05 54 05.7 h = 44 km MAG=5.1 D = 83.2 Az = 323.1 (USCGS) PV:1.4s 18.4nm LmH(C):18s 0.5 $\mu$ m LmV(C):16s 0.4 $\mu$ m MPV=5.0 MLH=5.0 MLV=4.9
18.	LmV LmH	16 45.0 46.9	Probably <u>South Atlantic Ridge</u> (USCGS) LmV(C):19s 0.6 $\mu$ m LmH(C):17.5s 0.6 $\mu$ m
18.	eP	19 05 02	<u>Andaman Islands</u> 12.26 N 95.15 E

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Day	Phase	h m s	Remarks
cont. 18.	e	19 05 09	H = 18 53 12.9 h = normal MAG=4.6 D = 76.5 Az = 319.4 (USCGS) PV1:1.0s 9.5nm PV2:0.8s 9.4nm MPV1=4.9 MPV2=5.0
18.	LmV LmH	21 01.3 01.5	Probably <u>Peru-Ecuador Border Region</u> (USCGS) LmV(C):19s 0.3 $\mu$ m LmH(C):18s 0.3 $\mu$ m
18.	e	23 35 53.5	
19.	eP e e e e ePP e LmH LmV	02 41 39.5 41 44 41 46 41 53 42 03.5 43 29 43 34 58.6 03 00.3	<u>Tadzhik SSR</u> 37.32 N 73.15 E H = 02 23 30.9 h = 76 km MAG=4.9 D = 45.0 Az = 307.6 (USCGS) LmH(C):28s 1.5 $\mu$ m LmV(C):22s 0.7 $\mu$ m MLH=4.8 MLV=4.7
19.	eP e eSS LmV LmH	07 09 45.5 09 49.5 19 40 26.5 27.1	<u>Tadzhik SSR</u> 37.33 N 73.16 E H = 07 01 33.4 h = 51 km MAG=5.2 D = 45.0 Az = 307.6 LmV(C):32s 0.5 $\mu$ m LmH(C):24s 1.6 $\mu$ m MLV=4.3 MLH=4.9
19.	iSn e	08 52 27 52 38	<u>Black Forest, GFR</u> 48.1 N 8.3 E H = 08 50 41 (BCIS) 48° 05' N 8° 19' E h = 1 - 2 km (Stuttgart)
19.	iP e ePP eSS LmV LmH	10 00 17 00 20 02 04 10 00 16.6 17.4	<u>Tadzhik SSR</u> 37.47 N 73.31 E H = 09 52 03.4 h = normal MAG=5.4 D = 45.0 Az = 307.5 (USCGS) PV:(1.5)s (20.1)nm LmV(C):34s 0.9 $\mu$ m LmH(C):26s 3.1 $\mu$ m MLV=4.5 MLH=5.1

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Day	Phase	h m s	Remarks
19.	eP e e eS LmH LmV	15 39 02 39 03 39 15 42 20 45.0 46.2	<u>Crete</u> 35.30 N 23.47 E H = 15 34 54.8 h = 19 km MAG=4.8 D = 17.6 Az = 334.4 (USCGS) PV2:1.8s 30.6nm LmH(C):28s 2.4 $\mu$ m LmV(C):22s 1.7 $\mu$ m MPV=4.1 MLH=4.3 MLV=4.4
19.	ePKP e e e LmH LmV	17 48 14 48 25 48 36 48 48 18 44.7 45.0	<u>Tonga Islands</u> 15.16 S 173.33 W H = 17 28 43.6 h = normal MAG=5.2 D = 144.4 Az = 354.6 (USCGS) LmH(C):27s 0.6 $\mu$ m LmV(C):22s 0.7 $\mu$ m MLH=5.2
19.	eP	19 28 42.5	<u>Hokkaido, Japan</u> 41.85 N 142.74 E H = 19 16 46.7 h = 67 km MAG=4.6 D = 78.5 Az = 330.7 (USCGS) PV:1.0s 11.8nm MPV=4.8
19.	e	22 01 45	
19.	eSg e	22 53(05) 53 30	<u>Yugoslavia</u> 44°4 N 17°4 E H = 22 49 55 (BCIS) D = 7.0
20.	eP e e ePP eS LmH LmV	07 20 47.5 20 48.5 20 58.5 24 02 31 00 56.4 08 01.4	<u>Taiwan</u> 24.97 N 122.48 E H = 07 08 17.1 h = 15 km MAG=5.4 D = 83.2 Az = 323.2 (USCGS) PV2:2.1s 60.5nm LmH:15.5s 9.9 $\mu$ m LmV:17s 9.1 $\mu$ m MPV=5.5 MLH=6.3 MLV=6.3
20.	eP e LmV LmH	12 34 00 34 10 13 16.4 16.5	<u>Off East Coast of Honshu, Japan</u> 40.29 N 144.25 E H = 12 21 47.3 h = 15 km MAG=4.9 D = 80.4 Az = 331.6 (USCGS) LmV:16s 5.7 $\mu$ m LmH:14s 5.3 $\mu$ m MLV=6.0 MLH=6.1

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Day	Phase	h m s	Remarks
20.	LmH LmV	17 55.5 55.5	Probably <u>Tristan da Cunha Region</u> (USCGS)
20.	eP	23 17 41	<u>Rumania</u> 45.73 N 26.57 E H = 23 15 04.0 h = 123 km MAG=4.6 D = 11.1 Az = 301.6 (USCGS) PV:1.3s 27.8nm MPV=4.8
21.	ePKP	00 47 25	<u>Fiji Islands</u> 19.14 S 177.68 W H = 00 28 43.3 h = 575 km MAG=3.9 D = 147.7 Az = 348.9 (USCGS)
21.	ePn eSn e iSg	01 03 21 04 27 04 52 04 56	<u>Hungary</u> 46.9 N 17.6 E H = 01 02 01 (BCIS) D = 5.4
21.	eP	14 16 07	<u>Northern Colombia</u> 6.51 N 76.53 W H = 14 03 37.3 h = 24 km MAG=4.7 D = 83.8 Az = 39.8 (USCGS) PV:1.2s 5.1nm MPV=4.6
21.	eP e(S) LmH LmV	18 20 49 24 10 28.0 28.9	<u>Crete</u> 35.21 N 23.38 E H = 18 16 41.6 h = 5 km MAG=4.7 D = 17.6 Az = 334.6 (USCGS) LmH:13s 1.0 $\mu$ m MLH=4.3
22.	eP i eSn eSb e eSg LmH LmV	07 25 19 25 21 26 51 27 20 27 31 27 39 27.9 27.9	<u>Yugoslavia</u> 43.5 N 17.0 E H = 07 23 18 (BCIS) D = 8.1 PV2:0.8s 33.0nm

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Moxa

Day	Phase	h m s	Remarks
22.	LmV LmH	08 46.5 51	Probably <u>Northern Easter I. Cordillera</u> (USCGS) LmV:20s 0.9 $\mu$ m LmH:18s 0.6 $\mu$ m
22.	ePKP	19 32 07.5	<u>Fiji Islands</u> 18.31 S 177.86 W H = 19 13 31.7 h = 612 km MAG=5.3 D = 146.9 Az = 348.9 (USCGS)
23.	ePKIKP ePKHKP ePKP2 LmH LmV	02 13 41 13 47 13 51.5 03 20.5 21.5	<u>West of Maquarie Island</u> 53.53 S 140.26 E H = 01 54 01.9 h = normal MAG=4.7 D = 148.9 Az = 285.9 (USCGS) LmH(C):23.5s 0.9 $\mu$ m LmV(C):27s 0.6 $\mu$ m MLH=5.4
23.	eP ePKIKP e ePP e ePKKP ePS e(SS) LmV LmH	21 19 49 23 30 24 24 24 45 33 04 33 40 35 24 41 00 22 18.7 19.9	<u>Near North Coast of New Guinea</u> 3.33 S 143.25 E H = 21 04 41.3 h = 12 km MAG=6.1 (USCGS) D = 117.8 PKIKPV:1.8s 46.0nm LmV:18s 103 $\mu$ m LmH:17.s 63.8 $\mu$ m MLV=7.5 MLH=7.3
24.	eP	00 55 59	<u>Mindanao, Philippine Islands</u> 7.16 N 126.61 E H = 00 42 21.9 h = 77 km MAG=5.4 D = 99.9 Az = 324.1 (USCGS)
24.	ePKIKP	02 21 11	<u>Near North Coast of New Guinea</u> 3.50 S 143.60 E H = 02 02 26.9 h = 40 km MAG=5.3 D = 118.2 Az = 327.5 (USCGS)
24.	LmH LmV	06 02.7 07.4	Probably <u>Prince Edward Islands Region</u> (USCGS) LmH:17s 1.5 $\mu$ m LmV:21s 1.7 $\mu$ m

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Moxa

Day	Phase	h m s	Remarks
24.	eP	14 12 36	<u>Molucca Passage</u> 1.50 N 126.43 E H = 13 58 35.1 h = 47 km MAG=5.4 D = 104.3 Az = 323.4 (USCGS)
24.	eP +iP e ePP eSKS e(PPS) eSS LmH LmV	A 16 05 02 B 05 03 05 12 09 15 15 36 18 35 23 55 53.3 54.0	<u>Philippine Islands</u> 5.94 N 126.99 E H = 15 51 18.5 h = 70 km MAG=5.4 D = 101.1 Az = 324.1 (USCGS) LmH:20s 11.8 $\mu$ m LmV:20s 12.2 $\mu$ m
24.	eP	21 57 24.5	<u>Off East Coast of Honshu, Japan</u> 33.12 N 142.08 E H = 21 44 46.2 h = 28 km MAG=5.0 D = 85.8 Az = 330.9 (USCGS)
24.	eP e e LmH LmV	22 47 33 47 38 47 49 23 25.0 25.1	<u>Kurile Islands</u> 49.66 N 155.77 E H = 22 35 50.9 h = 35 km MAG=5.5 D = 75.5 Az = 337.3 PV:1.1s 28.9nm LmH:18s 0.6 $\mu$ m LmV:18s 0.8 $\mu$ m MPV=5.2 MLH=5.0 MLV=5.1
25.	ePKP	10 32 17	<u>South of Fiji Islands</u> 19.79 S 179.58 E H = 10 13 32.5 h = 532 km MAG=4.2 D = 147.8 Az = 345.6
25.	eP e e eS LmH LmV	10 41 47.5 41 51.5 42 03 52 15 11 21.4 22.7	<u>Northern Sumatra</u> 4.31 N 95.50 E H = 10 29 24.1 h = 33 km MAG=5.5 D = 82.8 Az = 320.4 (USCGS) PV:0.7s 9.5nm MPV=5.1

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Moxa

Day	Phase	h m s	Remarks
25.	eP LmV	11 50 14.5 12 19.0	<u>Rat Islands, Aleutian Is.</u> 50.62 N 177.39 E H = 11 38 14.7 h = 23 km MAG=5.1 D = 78.4 Az = 350.8 (USCGS) PV:1.2s 12.8nm MPV=4.9
25.	eP	14 09 20	<u>Fox Islands, Aleutian Is.</u> 52.36 N 169.54 W H = 13 57 26.5 h = normal MAG=4.4 D = 77.4 Az = 359.2 (USCGS)
25.	eP LmH LmV	16 09 01.5 57.0 59.0	<u>Talau Islands</u> 3.45 N 125.98 E H = 15 55 11.9 h = 80 km MAG=5.2 D = 102.5 Az = 323.6 (USCGS) LmV(C):22s 0.3 $\mu$ m MLV=4.8
26.	eiP e e e e LmH LmV	16 08 25 08 25.5 08 32 08 37 08 42 08 50 45.5 46.1	<u>Hokkaido, Japan</u> 42.88 N 145.25 E H = 15 56 27.1 h = 41 km MAG=5.1 D = 78.5 Az = 331.9 (USCGS) PV:1.4s 27.6nm LmH(C):20s 0.2 $\mu$ m LmV(C):2s 0.2 $\mu$ m MPV=5.2 MLH=4.4 MLV=4.5
26.	eP LmH LmV	19 28 43 20 06.6 11.9	<u>Fox Islands, Aleutian Is.</u> 52.39 N 169.51 W H = 19 16 49.4 h = 30 km MAG=4.5 D = 77.3 Az = 359.3 (USCGS) PV:1.0s 11.9nm LmH(C):20s 0.1 $\mu$ m MPV=5.0 MLH=4.3
26.	LmH LmV	23 46.6 51.6	Probably <u>Oaxaca, Mexico</u> (USCGS) LmH(C):20s 0.1 $\mu$ m LmV(C):20s 0.3 $\mu$ m
27.	eP	00 30 33	
27.	ePKP	12 34 46	<u>Fiji Islands</u> 20.41 S 178.09 W H = 12 15 58.5 h = 510 km MAG=3.8 D = 148.9 Az = 348.0 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
27.	eP LmH	13 55 51 14 38.4	<u>Mindanao, Philippine Islands</u> 5.90 N 125.57 E H = 13 42 26.1 h = 193 km MAG=5.5 D = 100.3 Az = 323.7 (USCGS)
27.	eP LmH LmV	20 50 44 21 24.8 32.5	<u>Off East Coast of Honshu, Japan</u> 40.49 N 143.78 E H = 20 38 33.6 h = 11 km MAG=4.5 D = 80.1 Az = 331.4 (USCGS) LmH(C):20s 0.5/um MLH=4.8
28.	eP i e e LmH LmV	12 58 12.5 58 15.5 58 18.5 58 24 13 03.6 04.9	<u>Aegean Sea</u> 38.96 N 25.93 E H = 12 54 32.8 h = normal MAG=4.5 D = 15.5 Az = 323.8 (USCGS) PV2:1.2s 25.5nm LmH:13.5s 1.9/um LmV:10s 1.7/um MPV=4.2 MLH=4.4 MLV=4.7
28.	eiP epP ePP LmH LmV	14 53 11 53 29 56 37 15 32.2 38.0	<u>South of Honshu, Japan</u> 33.41 N 140.79 E H = 14 40 41.4 h = 61 km MAG=5.5 D = 85.1 Az = 330.3 (USCGS) PV:1.3s 41.7nm LmH:15s 0.4/um MPV=5.5 MLH=4.9
28.	LmH LmV	16 03.5 04.5	Probably <u>Turkey</u> (USCGS) LmH:13.5s 0.7/um LmV:12s 0.3/um
28.	ePKHKP i +iPKIKP B ePKIKP A e epPKIKP e ePP ePKS A ePKS B	23 51 36 51 37 51 44 51 45 51 47 51 57 54 08 54 21 55 17 55 20	<u>Santa Cruz Islands</u> 12.47 S 166.46 E H = 23 32 28.7 h = 60 km MAG=5.9 D = 136.7 Az = 336.7 (USCGS) PV2:1.2s 20.4nm LmV:19s 6.2/um LmH:18.5s 5.7/um MLV=6.4 MLH=6.2

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Day	Phase	h m s	Remarks
cont.			
28.	eS eSS LmV LmH	00 12 32 17 50 56.4 56.5	
29.	e e e e	02 58 23.5 58 53 59 11.5 59 17	Explosion ?
29.	ePKP	03 22 04	<u>Fiji Islands</u> 20.20 S 177.99 W H = 03 03 15.1 h = 520 km MAG=4.5 D = 148.7 Az = 348.2 (USCGS) PV:1.2s 17.9nm
29.	e	04 01 46	
29.	eP i ePP LmV LmH	04 18 50 18 52 22 12 05 02.5 03.4	<u>South of Honshu, Japan</u> 31.20 N 141.61 E H = 04 06 04.1 h = 17 km MAG=5.7 D = 87.3 Az = 330.8 (USCGS) PV2:1.6s 53.0nm LmV:16s 1.2/um LmH:15.5s 1.4/um MPV=5.5 MLV=5.4 MLH=5.5
29.	eP	06 39 36	<u>South of Honshu, Japan</u> 31.22 N 141.65 E H = 06 26 52.2 h = 40 km MAG=5.1 D = 87.3 Az = 330.8 (USCGS)
28.	LmH LmV	07 37.7 42.5	Probably <u>South of Honshu, Japan</u> (USCGS) LmH(C):15s 0.5/um LmV(C):17s 0.4/um
29.	eiPKP i e e	07 39 52.5 39 54 40 24 40 40	<u>Fiji Islands</u> 17.80 S 178.78 W H = 07 21 16.7 h = 567 km MAG=5.5 D = 146.2 Az = 348.1 (USCGS) PV1:1.3s 33.4nm PV2:1.3s 119.0nm

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Day	Phase	h m s	Remarks
29.	ePKHKP	11 46 45.5	<u>Tonga Islands</u> 22.49 S 175.21 W H = 11 26 51.8 h = normal MAG=5.1 D = 151.4 Az = 350.9 (USCGS) PV:1.3s 27.8nm
29.	ePKHKP e e	11 59 11 59 19 59 33	<u>Tonga Islands</u> 22.56 S 174.90 W H = 11 39 20.2 h = normal MAG=5.2 D = 151.5 Az = 351.3 (USCGS)
29.	ePP e LmH	17 19 04 19 46 18 06.0	<u>Molucca Passage</u> 1.78 N 126.37 E H = 17 00 40.4 h = normal MAG=5.5 (USCGS) D = 104.2 LmH(C):24s 1.0 $\mu$ m MLH=5.3
29.	eP e i iPL Pm ePP e eS ei eiSS eSSS ePKPPKP LmH LmV	22 26 46.5 26 48.5 26 51 26 51 26 52 29 07 29 50 35 08 35 18 39 25 42 08 55 59 56.9 23 06.0	<u>Alaska</u> 65.43 N 150.10 W H = 22 16 15.6 h = 7km MAG=6.0 D = 63.4 Az = 12.9 (USCGS) PmV:2.1s 815.0nm LmH:20s 15.7 $\mu$ m LmV:16s 18.0 $\mu$ m MPmV=6.5 MLH=6.2 MLV=6.4
30.	eP e e LmH LmV	04 15 37 15 40 16 07 33.0 37.8	<u>Tadzhik SSR</u> 37.44 N 73.24 E H = 04 07 20.7 h = 12 km MAG=5.5 D = 45.0 Az = 307.6 (USCGS) LmH(C):20s 0.7 $\mu$ m LmV(C):16s 0.5 $\mu$ m MLH=4.6 MLV=4.6
30.	e	06 26 09	<u>Alaska</u> 65.55 N 150.11 W H = 06 15 33.6 h = normal MAG=4.0 D = 63.3 Az = 12.9

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Moxa

Day	Phase	h m s	Remarks
30.	+iPKP2 epPKP	10 02 06.5 03 36	<u>Kermadec Islands</u> 31.05 S 179.92 W H = 09 42 10.8 h = 328 km MAG=4.9 (USCGS) D = 157.2
30.	eP eS LmH LmV	11 46 19 49(50) 54.6 54.6	<u>Straits of Gibraltar</u> 35.10 N 3.61 W H = 11 41 56.9 h = 34 km MAG=4.6 D = 19.1 Az = 30.8 (USCGS)
30.	eP eS eS e LmH LmV	16 56 42 17 00 47 00 52 02 05 08.5 08.5	<u>Turkey</u> 37.88 N 38.57 E H = 16 51 33.5 h = 3 km MAG=4.9 D = 23.0 Az = 312.4 (USCGS) SH(B):10s 5.4 $\mu$ m LmH:13.5s 3.5 $\mu$ m LmV:13.5s 4.5 $\mu$ m MSH=5.9 MLH=5.0 MLV=5.2
31.	eP eS LmH LmV	03 26 26 29 51 34.1 35.3	<u>Dodekanese Islands</u> 36.61 N 27.05 E H = 03 22 15.0 h = 11 km MAG=5.1 D = 17.9 Az = 326.5 (USCGS) PV:2.0s 360.0nm LmH:10s 8.9 $\mu$ m LmV:11s 7.0 $\mu$ m MPV=5.2 MLH=5.3 MLV=5.3
31.	eP ePP eSKS e ePS eSS LmH LmV	09 20 39 25 02 31 16 32 20 33 56 40 00 10 06.2 12.8	<u>Molucca Passage</u> 1.21 N 126.33 E H = 09 06 36.4 h = normal MAG=6.1 D = 104.5 Az = 323.3 (USCGS) PV:1.3s 22.2nm LmH:17s 2.6 $\mu$ m LmV:17.5s 7.0 $\mu$ m MPV=5.9 MLH=5.8 MLV=6.3

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November 1968

Moxa

Day	Phase	h m s	Remarks
1.	eP	00 31 18	<u>North of Ascension Island</u> 0.93 S 13.39 W H = 00 21 42.8 h = normal MAG=5.1 D = 55.6 Az = 19.0 (USCGS) PV:1.1s 24.1nm MPV=5.1
1.	LmH LmV	03 07.4 07.4	<u>Probably Alaska</u> (USCGS) LmH(C):20s 0.4/um LmV(C):20s 0.3/um
1.	e	12 48 10	
2.	eP	08 39 06.5	<u>North Atlantic Ridge</u> 10.87 N 43.53 W H = 08 28 59.2 h = normal MAG=4.8 D = 59.9 Az = 37.2 (USCGS) PV:1.8s 40.8nm MPV=5.2
2.	e	15 52 50.5	
3.	ePn e iSn i iSg LmH	04 51 57 52 07 53 48 54 05 54 58 55.3	<u>Yugoslavia</u> 42.13 N 19.39 E H = 04 49 31.8 h = 17 km MAG=5.0 D = 10.1 Az = 330.5 (USCGS) LmH:14s 65.0/um MLH=5.6
3.	eP	05 18 38	<u>Yugoslavia</u> (Uppsala) PV:1.4s 15.4nm
3.	e	05 41 48	
3.	eISg	06 28 34	<u>Germany</u> 48°16'N 9°02'E H = 06 27 00.5 h = 1 km ML=2.8 (BCIS) D = 2.9
3.	eP	08 14 15	<u>Carlsberg Ridge</u> 6.75 N 60.14 E H = 08 04 15.6 h = normal MAG=5.2 D = 59.4 Az = 326.4 (USCGS) PV:2.0s 39.6nm MPV=5.1

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Day	Phase	h m s	Remarks
3.	eP e LmH LmV	18 44 00 44 05 49.9 51.7	<u>Turkey</u> 38.82 N 29.19 E H = 18 39 58.2 h = 5 km MAG=5.0 D = 17.1 Az = 319.3 (USCGS) PV2:1.9s 88.2nm LmH:14s 1.1/um LmV:8s 1.0/um MPV2=4.6 MLH=4.1 MLV=4.6
3.	eP	20 06 15	<u>Off Coast of Costa Rica</u> 7.91 N 85.92 W H = 19 53 22.9 h = 25 km MAG=4.7 D = 88.7 Az = 39.1 (USCGS)
4.	eP	09 11 50	<u>Arabian Sea</u> 12.21 N 58.00 E H = 09 02 31.9 h = normal MAG=5.1 D = 53.7 Az = 325.1 (USCGS) PV:2.2s 70.2nm MPV=5.3
4.	+iPKP i i epPKP iSKP ePKS eipPKS eISKKS eSPP eSS eSSS	09 25 55 25 56 26 01 28 09 28 44 29 32 31 52 35 00 40 32 46 55 52 30	<u>New Hebrides Islands</u> 14.18 S 172.03 E H = 09 07 38.5 h = 585 km MAG=5.8 D = 140.3 Az = 340.5 (USCGS) PV2:1.2s 51.0nm
4.	ePg eSg	14 19 05 19 21	Explosion D = ca. 1.2
4.	eP e e LmH LmV	20 10 12 10 22 10 31 17.8 18.4	<u>Dodekanese Islands</u> 36.54 N 27.05 E H = 20 05 59.4 h = 39 km MAG=4.6 D = 17.9 Az = 326.6 (USCGS) PV:1.9s 35.3nm MPV=5.1

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Day	Phase	h m s	Remarks
5.	eP e	02 11 36 11 41	<u>Kashmir-India Border Region</u> 32.38 N 76.38 E H = 02 02 44.2 h = normal MAG=4.9 D = 50.2 Az = 311.4
6.	eP LmH LmV	01 40 55 02 15.4 24.0	<u>Off East Coast of Honshu, Japan</u> 40.32 N 143.63 E H = 01 28 43.6 h = 9 km MAG=4.5 D = 80.1 Az = 331.3 (USCGS) LmH(C):18s 0.5 $\mu$ m MLH=4.9
6.	eIP	13 45 52.5	<u>Cyprus</u> 35.23 N 32.83 E H = 13 41 04.5 h = 54 km MAG=4.8 D = 21.8 Az = 321.6 (USCGS) PV:1.2s 76.5nm MPV=5.0
7.	eP LmH LmV	01 00 18 40.5 46.5	<u>Unimak Island</u> 54.30 N 164.61 W H = 00 48 33.6 h = 37 km MAG=5.1 D = 75.4 Az = 2.5 (USCGS) PV:0.8s 9.4nm LmH:17s 1.0 $\mu$ m LmV:15s 0.5 $\mu$ m MPV=4.9 MLH=5.2 MLV=5.0
7.	ePKP e e LmH LmV	03 52 29 52 33 52 40 05 07.6 11.6	<u>Samoa Islands</u> 16.64 S 172.92 W H = 03 32 50.8 h = normal MAG=5.1 D = 145.9 Az = 355.1 (USCGS) PV:0.7s 11.9nm LmH:18s 0.8 $\mu$ m LmV:17s 0.8 $\mu$ m MLH=5.5
7.	eP e e LmH LmV	09 31 10 31 30 31 45 10 07.5 11.0	<u>Near East Coast of Honshu, Japan</u> 40.24N 142.28 E H = 09 19 07.3 h = 61 km MAG=4.9 D = 79.7 Az = 330.6 (USCGS) PV:1.3s 33.4nm LmH:18.5s 1.5 $\mu$ m LmV:17.5s 1.2 $\mu$ m MPV=5.1 MLH=5.4 MLV=5.3

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Moxa

Day	Phase	h m s	Remarks
7.	+iP iPn LmH LmV	10 08 10.2 08 38 20.3 22.7	<u>Novaja Zemlja</u> 73.41 N 54.86 E H = 10 02 05.3 h = 0 km MAG=6.0 D = 29.3 Az = 243.0 (USCGS) PV:1.0s 99.5nm LmH:12s 3.9 $\mu$ m LmV:10s 2.2 $\mu$ m MPV=5.6 MLH=5.2 MLV=5.2 Probably underground explosion
7.	eIP e	14 48 32.5 48 39.5	<u>Kurile Islands</u> 45.00 N 150.05 E H = 14 36 38.8 h = 59 km MAG=5.0 D = 78.1 Az = 334.4 PV:1.6s 90.9nm MPV=5.5
7.	eP	23 17 00	<u>Fox Islands, Aleutian Is.</u> 53.77 N 165.72 W H = 23 05 17.7 h = 60 km MAG=4.7 D = 75.9 Az = 1.7 (USCGS)
8.	ePKIKP	08 02 00.5	<u>New Hebrides Islands</u> 13.35 S 167.17 E H = 07 42 57.3 h = 192 km MAG=5.1 D = 137.8 Az = 336.9 (USCGS)
8.	e	11 42 58	<u>Felt in Halle-Neustadt/DDR.</u> Probably rock burst
8.	iPKP	12 15 54.3	<u>Fiji Islands</u> 19.96 S 178.15 W H = 11 57 13.4 h = 585 km MAG=4.4 D = 148.4 Az = 348.1 (USCGS) PV:1.1s 14.4nm
8.	iPg eSg i	12 28 34 28 47.5 28 49	Explosion D = ca. 1.0
8.	eP e LmH	16 15 54 15 57 26.4	<u>Iceland</u> 64.66 N 17.39 W H = 16 11 15.7 h = normal MAG=4.7 D = 20.7 Az = 118.9 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
8.	LmV	16 26.4	LmH:13.5s 2.6 $\mu$ m LmV:13s 2.8 $\mu$ m MLH=4.8 MLV=5.0
8.	e	17 14 54	
8.	-iPKIKP iPKHKP iPKP2 epPKP	18 45 56 45 59.3 46 04.3 48 33	<u>Fiji Islands</u> 19.51 S 179.25 W H = 18 27 26.7 h = 670 km MAG=5.2 D = 147.8 Az = 347.0 (USCGS) PV1:1.0s 9.5nm PV2:1.6s 136.0nm PV3:1.0s 52.2nm
8.	ePKP	19 04 15	<u>Fiji Islands</u> 20.01 S 178.15 W H = 18 45 34.0 h = 596 km MAG=4.5 D = 148.5 Az = 348.1 (USCGS) PV:1.3s 16.7nm
9.	iP	03 01 47.2	<u>Eastern Kazakh SSR</u> 49.79 N 78.04 E H = 02 53 57.7 h = 0 km MAG=4.9 D = 41.2 Az = 297.7 (USCGS) Probably underground explosion
9.	eP	04 25 49	<u>Jan Mayen Island</u> 71.91 N 3.53 W H = 04 20 53.1 h = normal MAG=4.1 D = 22.4 Az = 154.1 (USCGS)
9.	ePKIKP ePKP2	13 32 10.5 32 16	<u>Fiji Islands</u> 20.14 S 178.57 W H = 13 13 31.3 h = 615 km MAG=4.7 D = 148.5 Az = 347.6 (USCGS) PV:1.2s 15.3nm
9.	eP e e eS LmH LmV	13 52 24 52 29 52 48 59 27 14 17.3 22.4	<u>Near Coast of West Pakistan</u> 23.82 N 64.72 E H = 13 43 38.4 h = normal MAG=5.2 D = 48.7 Az = 317.4 (USCGS) SH(B):14s 1.9 $\mu$ m LmH:18s 1.4 $\mu$ m LmV:15s 1.8 $\mu$ m MSH=5.8 MLH=5.0 MLV=5.3

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Day	Phase	h m s	Remarks
9.	iP e i LmH LmV	17 12 33.2 12 38.5 12 40 41.3 41.4	<u>Southern Illinois</u> 37.96 N 88.46 W H = 17 01 41.1 h = 19 km MAG=5.3 D = 67.4 Az = 42.8 (USCGS) PV:0.8s 33.0nm LmH:18s 1.7 $\mu$ m LmV:18s 2.0 $\mu$ m MPV=5.6 MLH=5.3 MLV=5.4
9.	eP	19 25 15	<u>Iceland</u> 63.89 N 21.14 W H = 19 20 22.8 h = 24 km MAG=4.6 D = 21.8 Az = 112.0 (USCGS) PV:1.0s 19.0nm MPV=4.5
9.	e(P) e e LmV LmH	20 44 47.5 48 36 49 02 21 36.9 37.7	<u>Molucca Passage</u> 2.42 N 126.83 E H = 20 30 41.9 h = normal MAG=5.5 D = 103.8 Az = 323.6 (USCGS) PV:1.3s 11.1nm LmV:19s 2.9 $\mu$ m LmH:19s 3.8 $\mu$ m MPV=5.2 MLV=5.9 MLH=6.0
10.	e	08 30 30	
10.	ePKP	10 07 51.5	<u>New Hebrides Islands</u> 19.85 S 169.82 E H = 09 48 45.4 h = 259 km MAG=4.4 D = 144.8 Az = 335.8 (USCGS)
10.	eP e e	12 54 55 55 00 55 13	<u>Crete</u> 34.78 N 24.30 E H = 12 50 42.9 h = 33 km MAG=5.0 D = 18.4 Az = 333.6 (USCGS)
10.	eP	14 25 58	<u>Kurile Islands</u> 44.76 N 146.74 E H = 14 14 18.4 h = 145 km MAG=4.2 D = 77.3 Az = 332.6 (USCGS)
10.	eP e	14 33 50 34 10	<u>Crete</u> 34.41 N 23.94 E H = 14 29 35.1 h = normal MAG=4.4 D = 18.6 Az = 334.7 (USCGS) PV:1.0s 9.5nm MPV=3.9

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Day	Phase	h m s	Remarks
10.	eiP e e ePP e e LmH LmV	17 14 41 14 52 17 37 18 08 18 16 25 10 56.0 59.9	<u>Philippine Islands</u> 19.95 N 121.39 E H = 17 01 59.2 h = normal MAG=5.2 D = 86.6 Az = 323.1 (USCGS) PV:1.5s 26.9nm LmH:17s 2.9 $\mu$ m LmV:14s 2.8 $\mu$ m MPV=5.3 MLH=5.7 MLV=5.9
10.	eP	21 38 03	<u>Southern Sumatra</u> 3.63 S 101.98 E H = 21 24 51.8 h = normal MAG=5.3 D = 93.0 Az = 320.4 (USCGS)
11.	eP	02 13 02	<u>Andreanof Islands, Aleutian Is.</u> 52.82 N 175.02 W H = 02 01 34.1 h = 222 km MAG=4.8 D = 76.8 Az = 355.7 (USCGS)
11.	ePKP epPKP	02 17 11.5 19 42.5	<u>Fiji Islands</u> 19.58 S 179.12 W H = 01 58 41.0 h = 674 km MAG=4.9 D = 147.9 Az = 347.1 (USCGS)
11.	+iP e eipP	09 05 10.3 05 15 05 35	<u>Alaska Peninsula</u> 57.26 N 155.28 W H = 08 53 52.0 h = 59 km MAG=5.3 D = 71.9 Az = 8.7 (USCGS) PV:1.6s 136.0nm MPV=5.6
11.	e	12 44 42.5	
11.	+iP e ePP eS i e(SP) eSS LmH LmV	14 53 23.3 53 30 56 28 15 03 24 03 26 04 12 08 35 28.6 35.6	<u>Off East Coast of Honshu, Japan</u> 40.10 N 143.02 E H = 14 41 15.9 h = 35 km MAG=5.5 D = 80.1 Az = 331.0 (USCGS) PV:2.0s 172.0nm LmH:18s 21.4 $\mu$ m LmV:16.5s 11.0 $\mu$ m MPV=5.7 MLH=6.5 MLV=6.2

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Day	Phase	h m s	Remarks
11.	eP	17 17 28	<u>Volcano Islands</u> 25.29 N 140.90 E H = 17 04 35.8 h = 159 km MAG=5.2 D = 92.1 Az = 330.5 (USCGS)
11.	eP eP eS LmH LmV	A BC 23 38 30 38 32 41 54 46.2 47.2	<u>Dodekanese Islands</u> 36.66 N 27.15 E H = 23 34 21.0 h = 23 km MAG=4.8 D = 17.9 Az = 326.3 (USCGS) PV:1.7s 149.0nm LmH:12s 3.5 $\mu$ m LmV:13.5s 3.7 $\mu$ m MPV=4.8 MLH=4.9 MLV=5.0
11.	eP	23 57 14	<u>Dodekanese Islands</u> 36.54 N 27.21 E H = 23 53 04.1 h = 21 km MAG=4.5 D = 18.0 Az = 326.4 (USCGS)
12.	eP i +i eS e ePPS LmH LmV	00 56 40 56 42.2 56 44.2 01 07 00 07 22 08 20 38.7 39.5	<u>Ryukyu Islands</u> 27.53 N 128.43 E H = 00 44 12.8 h = 48 km MAG=5.8 D = 84.3 Az = 325.2 (USCGS) PV:1.1s 103.0nm LmH:17s 5.3 $\mu$ m LmV:16s 6.0 $\mu$ m MPV=6.0 MLH=6.0 MLV=6.1
12.	eP e i i eS eS LmH LmV	A B A B C B 48.9 50.4	<u>Dodekanese Islands</u> 36.65 N 27.27 E H = 03 37 35.7 h = 17 km MAG=4.7 D = 17.9 Az = 326.1 (USCGS) PV:1.9s 129.0nm LmH:14s 3.4 $\mu$ m LmV:12s 3.2 $\mu$ m MPV=4.7 MLH=4.8 MLV=5.0
12.	eP ei eS LmH LmV	06 13 04.5 13 08 16 30 20.2 21.9	<u>Dodekanese Islands</u> 36.60 N 27.30 E H = 06 08 54.3 h = 24 km MAG=4.7 D = 18.0 Az = 326.2 PV:1.6s 53.0nm LmH:12.5s 2.8 $\mu$ m LmV:11s 2.8 $\mu$ m MPV=4.4 MLH=4.7 MLV=4.9



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Day	Phase	h m s	Remarks
12.	e	06 46 06	
12.	eP	09 09 34	<u>Hokkaido, Japan</u> 41.19 N 143.90 E
	e	09 47	H = 08 57 27.1 h = 17 km MAG=5.3
	e	09 56.5	D = 79.5 Az = 331.4 (USCGS)
	LmH	45.8	LmH:15s 1.7 $\mu$ m LmV:17s 1.5 $\mu$ m
	LmV	49.2	MLH=5.5 MLV=5.4
12.	+iP	10 06 08.7	<u>Ryukyu Islands</u> 29.25 N 129.43 E
	e	06 13	H = 09 53 42.2 h = 22 km MAG=5.4
	e	06 28	D = 83.4 Az = 325.5 (USCGS)
	LmH	41.5	PV:1.5s 40.3nm
	LmV	46.8	LmH:15s 8.9 $\mu$ m LmV:17s 3.8 $\mu$ m
			MPV=5.4 MLH=6.2 MLV=5.9
12.	eP	14 16 40.5	<u>Near East Coast of Honshu, Japan</u>
	epP	16 52.5	40.01 N 142.63 E
	LmH	50.2	H = 14 04 34.7 h = 53 km MAG=5.0
	LmV	52.3	D = 80.0 Az = 330.8 (USCGS)
			PV:1.1s 14.4nm
			LmH(C):22s 0.5 $\mu$ m LmV(C):22s 0.5 $\mu$ m
			MPV=4.8 MLH=4.9 MLV=4.8
12.	ePKP AC	22 20 13	<u>Samoa Islands</u> 15.63 S 172.76 W
	e B	20 18	H = 22 00 39.1 h = 47 km MAG=5.2
	LmH	23 32.5	D = 144.9 Az = 355.2 (USCGS)
	LmV	32.5	PV:1.2s 20.4nm
			LmH:16s 0.8 $\mu$ m LmV:16s 0.8 $\mu$ m
			MLH=5.5
13.	+ePKP	02 16 19.5	<u>Samoa Islands</u> 15.65 S 172.78 W
	e	16 28.5	H = 01 56 45.1 h = 35 km MAG=5.0
	e	16 32	D = 144.9 Az = 355.1 (USCGS)
	e	16 35	PV:1.2s 17.9nm
13.	e	11 31 26	
13.	LmH	12 19.9	LmH:15.5s 2.0 $\mu$ m LmV:15.5 2.2 $\mu$ m
	LmV	20.1	

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Day	Phase	h m s	Remarks
13.	eP	15 21 02	<u>Crete</u> 35.85 N 26.25 E
	LmH	27.1	H = 15 16 57.0 h = 123 km
	LmV	28.7	D = 18.2 Az = 329.0 (USCGS)
			LmH:14s 0.8 $\mu$ m LmV:9s 0.7 $\mu$ m
13.	ePKIKP	16 08 04	<u>Fiji Islands</u> 20.83 S 178.80 W
	eIPKHKP	08 09	H = 15 49 26.4 h = 590 km MAG=5.2
	ePKP2	08 15	D = 149.1 Az = 347.0 (USCGS)
	epPKP	10(23)	
13.	e	17 52 43	
13.	+iP AC	18 53 52.5	<u>Near East Coast of Honshu, Japan</u>
	+iP B	53 54	40.15 N 142.49 E
	ipP	54 06.5	H = 18 41 47.9 h = 49 km MAG=5.5
	ePP	56 55	D = 79.9 Az = 330.7 (USCGS)
	e	57 08	PV:2.0s 199.0nm
	eS	19 03(45)	LmH:16.5s 6.9 $\mu$ m LmV:16.5s 5.5 $\mu$ m
	eISKS	04 08	MPV=5.7 MLH=6.1 MLV=6.0
	e	04 19	
	ePS	04 44	
	eSS	09 05	
	LmH	33.5	
	LmV	33.5	
13.	ePKP	21 54 29	<u>Fiji Islands</u> 18.39 S 178.03 W
			H = 21 35 47.9 h = 549 km MAG=4.9
			D = 146.9 Az = 348.7 (USCGS)
13.	e	23 57 56	
14.	LmH	06 24.0	Probably <u>North Atlantic Ridge</u> (USCGS)
	LmV	25.0	LmH(C):22s 0.3 $\mu$ m LmV(C):19s 0.2 $\mu$ m
14.	ePKP	11 54 34.5	<u>Fiji Islands</u> 20.04 S 176.01 W
	epPKP	55 29	H = 11 35 12.0 h = 220 km MAG=5.1
	esPKP	55 57.5	D = 148.9 Az = 350.6 (USCGS)

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Day	Phase	h m s	Remarks
14.	eP	12 24 14	<u>Kyushu, Japan</u> 31.65 N 131.51 E
	LmH	13 04.8	H = 12 11 50.1 h = 6 km MAG=5.0
	LmV	05.0	D = 82.4 Az = 326.2 (USCGS)
			PV:1.8s 35.7nm
			LmH:17s 3.9 $\mu$ m LmV:18s 4.6 $\mu$ m
			MPV=5.2 MLH=5.8 MLV=5.9
14.	e	13 20 03.5	
14.	e	23 17 53.5	
14.	e	23 19 20	<u>Yugoslavia-Albania</u> (Uppsala)
14.	eIPKP	A 23 28 23	<u>Loyalty Islands</u> 21.55 S 170.14 E
	i	A 28 24	H = 23 08 54.4 h = 103 km MAG=5.4
	i	B 28 25	D = 146.4 Az = 335.1 (USCGS)
	e	28 43	PV2:1.6s 174.0nm
	e	28 50	LmH(C):27s 1.2 $\mu$ m LmV(C):28s 1.0 $\mu$ m
	LmH	24 25.0	
	LmV	27.0	
15.	eP	00 18 22.5	<u>Gulf von Alaska</u> 58.33 N 150.37 W
	e	18 24	H = 00 07 09.7 h = 26 km MAG=5.1
	e	18 29	D = 70.4 Az = 12.1 (USCGS)
	e	18 37	PV2:1.8s 40.8nm LmH:16s 0.7 $\mu$ m
	e	18 42	MLH=5.0
	e	18 54	
	LmV	57.2	
	LmH	57.4	
15.	eP	01 59 14.5	<u>Hokkaido, Japan</u> 41.59 N 142.56 E
			H = 01 47 16.2 h = 55 km MAG=4.8
			D = 78.6 Az = 330.6 (USCGS)
15.	eP	06 32 30	<u>Persia-USSR Border Region</u> 37.5 N 58.2 E
	i	32 40.5	H = 06 25 36 (BCIS)
	eIS	38 12	D = 35.4
	LmH	50.9	PV1:2.0s 59.7nm PV2:2.0s 199.0nm

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Day	Phase	h m s	Remarks
cont.			
15.	LmV	06 54.2	LmH:11.5s 6.5 $\mu$ m LmV:11.5 9.7 $\mu$ m
			MPV1=5.2 MPV2=5.5 MLH=5.6
			MLV=5.9
15.	ePg	15 04 33	Explosion
	eSg	04 47	D = ca. 1.0
16.	ePKP	00 42 50	<u>New Hebrides Islands</u> 17.97 S 168.46 E
	e	42 54	H = 00 23 40.8 h = 173 km MAG=5.3
			D = 142.5 Az = 335.7 (USCGS)
			PV:1.2s 12.8nm
16.	ePKP	08 05 18.5	<u>Fiji Islands</u> 16.62 S 175.88 E
	e	05 30	H = 07 45 51.7 h = 66 km MAG=5.6
	ePP	08 44	D = 143.8 Az = 343.0 (USCGS)
	e	10 16	PV:2.7s 286.0nm
	eSS	27 16	LmV:16s 2.2 $\mu$ m LmH:17.5s 2.2 $\mu$ m
	LmV	09 24.0	
	LmH	28.4	
16.	ePKP	10 46 43	<u>New Hebrides Islands</u> 20.57 S 169.84 E
	epPKP	47 12	H = 10 27 16.5 h = 104 km MAG=4.9
			D = 145.4 Az = 335.4 (USCGS)
16.	e	12 30 26	
17.	+iP	00 27 55.8	<u>Venezuela</u> 9.55 N 72.65 W
	-ipP	28 39.8	H = 00 16 08.6 h = 172 km MAG=5.7
	ei	28 51	D = 79.1 Az = 40.2 (USCGS)
	esP	29 08	PV:1.6s 144.0nm
	-iS	37 41	MPV=5.5
	e	38 19	
	esS	38 55	
17.	ePKIKP	04 44(33,5)	<u>Fiji Islands</u> 19.62 S 177.84 W
	ePKHKP	44 37	H = 04 25 42.6 h = 458 km MAG=4.2
			D = 148.1 Az = 348.6 (USCGS)

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Day	Phase	h m s	Remarks
17.	eP	07 50 51.5	<u>North of Ascension Island</u>
	e	50 53.5	1.30 S 13.60 W
	e	50 57.5	H = 07 41 16.1 h = normal MAG=5.3
	ePcP	51 52	D = 56.1 Az = 19.1 (USCGS)
	ePcP	51 55	PV2:1.4s 30.7nm
	ePP	52 45	LmH:18.5s 12.3 $\mu$ m LmV:19s 11.3 $\mu$ m
	ePP	52 49	MPV=5.1 MLH=6.0 MLV=6.0
	ePPP	54 12	
	eS	58 40	
	-iS	58 44	
	LmH	08 11.3	
LmV	14.0		
17.	eP	13 11 19.5	<u>Off Coast of Honshu, Japan</u>
	e	11 36	39.71 N 143.17 E H = 12 59 09.4 h = normal MAG=4.9 D = 80.5 Az = 331.1 (USCGS)
18.	e	01 39 21	
18.	ePKIKP	03 00 58	<u>Solomon Islands</u> 7.05 S 155.77 E
	e	01 11.5	H = 02 42 02.1 h = 88 km MAG=5.1 D = 127.3 Az = 332.0 (USCGS)
18.	eP	06 14 48	<u>Near East Coast of Honshu, Japan</u>
			37.43 N 141.45 E
			H = 06 02 32.5 h = 51 km MAG=4.6 D = 81.8 Az = 330.4 (USCGS)
18.	e	14 55 36.5	
	e	56 16	
	e	57 27	
	e	58 04	
18.	eP	15 34 14.5	<u>Hokkaido, Japan</u> 43.92 N 141.16 E
			H = 15 22 49.4 h = 223 km MAG=4.2
			D = 76.1 Az = 329.6 (USCGS)
			PV:0.8s 7.1nm MPV=4.5

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Day	Phase	h m s	Remarks
19.	e(Pg)	14 10 08.5	Probably Explosion
	e(Sg)	10 24	
19.	eP	23 00 03	<u>Nicobar Islands Region</u> 8.72 N 94.15 E
			H = 22 48 04.0 h = normal MAG=4.9 (USCGS) D = 78.6
20.	eP	01 53 53	<u>Rumania, Region of Vrancea</u>
			45.6 N 26.6 E
			H = 01 51 15 h = 140 km (BCIS)
			D = 11.2 PV:1.4s 24.6nm MPV=4.6
20.	eP	18 12 19	<u>Nevada</u> , underground explosion (Uppsala)
20.	e	19 34 17.5	
	LmH	23 09.0	<u>Probably Southern Alaska</u> (USCGS)
LmV	09.0		
21.	ePKHKP	02 56 10.5	<u>Tonga Islands</u> 20.88 S 174.06 W
	ePKP2	56 21	H = 02 36 21.8 h = normal MAG=5.0 (USCGS)
			D = 150.0 PV:1.6s 37.9nm
21.	epP	03 13 07	<u>Hindu Kush Region</u> 36.40 N 70.58 E
	e	13 10	H = 03 04 39.0 h = 204 km MAG=5.0 (USCGS)
	e	15 20	D = 43.6
	LmH	04 13.0	LmH(C):16.5s 0.2 $\mu$ m LmV(C):16.5s 0.2 $\mu$ m
LmV	13.0		
21.	ePb	22 51 42.5	<u>France</u> 46.3 N 6.8 E
	ePg	51 47	H = 22 50 03 (BCIS)
	eSg	52 52	D = 5.4

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Day	Phase	h m s	Remarks
22.	eP	A 09 12 22.5	<u>Luzon, Philippine Islands</u> 16.28 N 122.33 E
	+eiP	C 12 23	H = 08 59 23.1 h = 26 km MAG=5.3
	-iP	B 12 26	D = 90.1 Az = 323.5 (USCGS)
	e	16 04	PV:1.7s 30.7nm
	eSKS	22 48	LmV:16.5s 7.8 $\mu$ m LmH:16.5s 7.6 $\mu$ m
	e	22 56	MPV=5.3 MLV=6.2 MLH=6.2
	eS	23 15	
	eiSP	24 18	
	eSS	29 19	
	eSSS	32 55	
	eSSSS	35 55	
	LmV	57.0	
LmH	57.1		
22.	ePn	10 09 12	<u>Germany (GFR) - Austria Border Region</u>
	ePb	09 17	47.5 N 11.0 E
	e	09 45	H = 10 08 20 (BCIS)
	i	09 57.5	D = 3.2 PV:0.6s 11.9nm
22.	eP	10 45 50	<u>Molucca Passage</u> 1.52 N 125.64 E
	LmV	11 35.6	H = 10 31 45.1 h = 7 km MAG=5.7 D = 103.8 Az = 323.2 (USCGS) PV:2.0s 46.4nm LmV:19s 0.6 $\mu$ m MPV=6.0 MLV=5.2
22.	+eP	11 51 30.5	<u>Luzon, Philippine Islands</u>
	LmH	12 34.5	13.15 N 122.59 E
	LmV	35.7	H = 11 38 17.3 h = 17 km MAG=5.5 D = 92.7 Az = 323.5 (USCGS) PV:1.8s 51.0nm LmH:16s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m MPV=5.7 MLH=5.0 MLV=5.0
22.	ePKIKP	16 02 51.5	<u>South of Fiji Islands</u> 23.65 S 179.97 W
	+eiPKHKP	03 01	H = 15 44 05.0 h = 516 km MAG=5.3
	e	03 07.5	D = 151.6 Az = 344.4 (USCGS)
	ePKP2	03 11.5	
	epPKP	05 03	
e	05 17		

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Day	Phase	h m s	Remarks
24.	ePKP	21 06 13	<u>Loyalty Islands</u> 21.56 S 170.63 E H = 20 46 47.6 h = 142 km MAG=4.8 D = 146.6 Az = 335.5 (USCGS) PV:1.6s 22.7nm
24.	ePKP	21 29 25	<u>Fiji Islands</u> 15.56 S 176.04 W H = 21 09 47.9 h = normal MAG=5.3 D = 144.5 Az = 351.6 (USCGS)
24.	+iP	21 33 03.8	<u>Near East Coast of Honshu, Japan</u>
	i	33 05	40.25 N 142.30 E
	+ipP	33 17	H = 21 20 59.9 h = 51 km MAG=5.9
	eS	43.0	D = 79.7 Az = 330.6 (USCGS)
	LmH	22 09.4	PV1:1.7s 395.0nm PV2:1.8s 459.0nm
	LmV	12.6	LmH:17.5s 3.5 $\mu$ m LmV:17.5s 2.9 $\mu$ m MPV1=6.1 MPV2=6.1 MLH=5.8 MLV=5.7
25.	LmH	01 47.5	Probably <u>Revilla Gigedo Islands Region</u> (USCGS) LmH(C):18.5s 0.6 $\mu$ m
25.	+iP	18 50 45.8	<u>Mindanao, Philippine Islands</u>
	e	50 49	4.99 N 126.87 E
	e	50 52	H = 18 36 53.0 h = 31 km MAG=5.4
	iSKS	19 01 24	D = 101.8 Az = 324.0 (USCGS)
	iS	02 24	PV:1.1s 19.2nm
	ePPS	04 48	LmV:16s 9.8 $\mu$ m LmH:13.5s 8.5 $\mu$ m
	LmV	43.8	MPV=5.6 MLV=6.4 MLH=6.4
LmH	46.6		
26.	e	00 22 07	<u>South Atlantic Ridge</u> 57.53 S 6.79 W H = 00 03 14.3 h = normal MAG=5.6 D = 108.9 Az = 12.3 (USCGS)
26.	ePKIKP	01 29 05	<u>New Britain</u> 5.31 S 152.01 E
	epPKIKP	29 26	H = 01 10 12.9 h = 68 km MAG=5.5 D = 124.0 Az = 330.7 (USCGS) PV:1.3s 19.4nm

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Day	Phase	h m s	Remarks
26.	ePKP2	02 08 41.5	<u>Fiji Islands Region</u> 21.27 S 179.47 W H = 01 49 56.3 h = 672 km MAG=5.0 (USCGS) D = 149.4
26.	+eP i LmH LmV	18 41 25 41 30.8 19 06.8 06.9	<u>Lake Baikal</u> 55.87 N 111.38 E H = 18 31 51.8 h = 4 km MAG=5.1 D = 54.8 Az = 309.9 (USCGS) PV:1.3s 36.1nm LmH:17s 2.3/um LmV:16s 2.7/um MPV=5.2 MLH=5.3 MLV=5.5
26.	LmH	23 37.2	Probably <u>Ryukyu Islands</u> (USCGS) LmH:15s 1.5/um
27.	e LmH LmV	01 18 30 54.3 59.4	<u>Ryukyu Islands</u> 28.95 N 129.92 E H = 01 05 55.2 h = normal MAG=5.0 D = 83.9 Az = 325.7 (USCGS) LmH:15.5s 3.2/um LmV:16s 1.3/um MLH=5.9 MLV=5.4
27.	ePb eiPg e e	02 05 11 05 22 06 22 06 35	<u>France</u> 46.2 N 6.7 E H = 02 03 30 (BCIS) D = 5.6
27.	LmV LmH	23 08.2 08.4	Probably <u>Southern Pacific Ocean</u> (USCGS) LmV(C):23s 0.7/um LmH(C):22s 1.6/um
28.	eiP	07 12 13 12 24	<u>Near East Coast of Honshu, Japan</u> 40.10 N 142.30 E H = 07 00 08.1 h = 47 km MAG=5.0 D = 79.8 Az = 330.6 (USCGS) PV:1.2s 16.3nm MPV=4.8
28.	eP ePP eiS	10 48 58 52 16 59 32	<u>Near East Coast of Oaxaca, Mexico</u> 15.37 N 94.59 W H = 10 36 07.7 h = 33 km MAG=5.2

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Day	Phase	h m s	Remarks
cont.			
28.	eiPS eiPPS LmH LmV	11 00 32 01 06 34.8 34.9	D = 88.2 Az = 37.7 (USCGS) PV:3.3s 467.0nm SH:13.5s 10.1/um LmH:17s 11.3/um LmV:17s 14.3/um MPV=6.5 MSH=6.7 MLH=6.4 MLV=6.5
28.	iPKIKP eipPKIKP LmH LmV	16 49 19 50 00 17 35.7 45.6	<u>Solomon Islands</u> 6.79 S 156.23 E H = 16 30 32.1 h = 169 km MAG=5.7 D = 127.3 Az = 332.4 (USCGS) LmV:16s 0.5/um
28.	eP	18 10 07.5	<u>Iran</u> 34.2 N 59.7 E H = 18 02 46 (AN USSR) D = 38.3 PV:1.0s 16.8nm MPV=4.7
28.	eP	22 19 09.5	<u>Oaxaca, Mexico</u> 16.92 N 94.46 W H = 22 06 35.6 h = 119 km MAG=4.4 D = 86.9 Az = 37.8 (USCGS)
29.	iPg iSg	14 19 39 19 53.5	Probably explosion D = ca. 1.1
29.	e e	20 53 16 53 45	Probably rock burst
29.	ePKP	22 10 54	<u>Fiji Islands</u> 20.05 S 178.51 W H = 21 52 12.8 h = 582 km MAG=4.5 D = 148.4 Az = 349.7 (USCGS)
30.	e	04 43 26.5	
30.	e	06 28 21	

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Day	Phase	h m s	Remarks
1.	ePKP2	05 48 12.5	<u>Balleny Islands Region</u> 65.40 S 179.66 E H = 05 27 09.3 h = normal MAG=5.2 (USCGS) D = 164.0 PV:2.4s 104.0nm
1.	eP e e eSKS eS ePS eSS LmV LmH	13 28 19.5 28 33 28 53 38 58 39(35) 40 55 45 40 14 12.3 12.5	<u>Peru</u> 10.56 S 74.87 W H = 13 14 50.6 h = 5 km MAG=5.4 D = 95.9 Az = 39.7 (USCGS) PV:2.2s 126.0nm LmV:18s 1.6/um LmH:18s 1.8/um MPV=6.1 MLV=5.6 MLH=5.6
1.	ePKP	20 54 29	<u>Fiji Islands</u> 17.76 S 178.64 W H = 20 35 47.6 h = 551 km MAG=4.9 D = 146.2 Az = 348.2 (USCGS)
2.	-iP i eS eSS LmH LmV	02 44 25 44 30 53 11 57 25 03 11.6 17.9	<u>Zambia</u> 13.92 S 23.81 E H = 02 33 41.6 h = 7 km MAG=6.0 D = 65.2 Az = 351.5 (USCGS) PV1:1.2s 160.0nm PV2:1.0s 121.0nm LmH:17s 3.9/um LmV:14s 3.1/um MPV1=6.1 MPV2=6.1 MLH=5.7 MLV=5.7
3.	eP	13 59 16	<u>Kurile Islands</u> 49.08 N 156.27 E H = 13 47 30.8 h = normal MAG=4.2 D = 76.1 Az = 337.7 (USCGS)
3.	ePP e LmH	19 44 25.5 44 30 20 25.5	<u>South of Java</u> 8.41 S 105.73 E H = 19 26 39.1 h = 25 km MAG=5.2 (USCGS) D = 99.0 MLH=5.0 LmH:22s 0.6/um
3.	eiPn ei ei	20 59 24.5 59 34 21 00 46.5	<u>Jugoslavia</u> 44.56 N 18.43 E H = 20 57 31.2 h = 7 km MAG=4.7 D = 7.6 Az = 325.3 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
3.	iSn eiSg LmH LmV	21 00 52 01 37 02.0 02.8	LmH:13s 4.5/um LmV:10.5s 1.5/um MLH=4.3
3.	eP	21 18 21.5	<u>Kurile Islands</u> 43.39 N 147.25 E H = 21 06 20.8 h = normal MAG=4.6 D = 78.7 Az = 330.0 (USCGS) PV:1.0s 16.9nm MPV=5.0
4.	iP ei e LmH LmV	18 47 40 47 45 51 06 55.3 55.4	<u>Dodekanese Islands</u> 36.37 N 27.12 E H = 18 43 28.1 h = 49 km MAG=4.4 D = 18.1 Az = 326.8 (USCGS) PV:1.8s 63.1nm LmH:10.5s 1.1/um LmV:10s 0.9/um MPV=4.5 MLH=4.4 MLV=4.5
4.	eP e LmV LmH	18 56 28.5 56 34 19 04.0 04.1	<u>Dodekanese Islands</u> 36.48 N 27.10 E H = 18 52 17.6 h = 42 km MAG=3.9 D = 18.0 Az = 326.7 (USCGS) PV:2.0s 73.0nm LmV:10s 0.6/um LmH:11s 0.6/um MPV=4.5 MLV=4.3 MLH=4.1
4.	eP e e eS LmH LmV	19 41 32 41 34.5 41 39 45 00 49.2 49.3	<u>Dodekanese Islands</u> 36.50 N 27.08 E H = 19 37 23.5 h = 51 km MAG=4.7 D = 18.0 Az = 326.6 (USCGS) PV:1.8s 90.2nm LmH:10.5s 0.9/um LmV:10s 0.7/um MPV=4.6 MLH=4.3 MLV=4.4
4.	eP e	21 51 18 51 27	<u>Carlsberg Ridge</u> 8.40 N 58.38 E H = 21 41 32.6 h = normal MAG=5.1 D = 57.1 Az = 326.5 (USCGS) PV:1.8s 45.1nm MPV=4.8

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Day	Phase	h m s	Remarks
5.	+eP	07 56 18	<u>Dodekanese Islands</u> 36.59 N 26.97 E
	eS	59 44	H = 07 52 11.0 h = 35 km MAG=5.5
	LmH	08 04.0	D = 17.9 Az = 326.7 (USCGS)
	LmV	04.1	LmH:11.5s 15.7 $\mu$ m LmV:10.5s 15.9 $\mu$ m MLH=5.5 MLV=5.7
5.	-1P	09 49 08	<u>Iceland</u> 63.92 N 21.72 W
	eIS	53 11	H = 09 44 11.0 h = 5 km MAG=5.5
	LmH	10 00.8	D = 22.1 Az = 111.3 (USCGS)
	LmV	00.8	SH:12.5s 15.3 $\mu$ m LmH:12s 31.3 $\mu$ m LmV:12s 41.6 $\mu$ m MSH=6.3 MLH=6.0 MLV=6.1
5.	e	17 31 24	<u>Dodekanese Islands</u> 36.57 N 26.92 E H = 17 27 21.7 h = normal MAG=3.8 D = 17.9 Az = 326.8 (USCGS)
	LmH LmV	20 01.5 01.5	Probably <u>Off Coast of Central America</u> (USCGS) LmH:23s 0.8 $\mu$ m
5.	ePn	22 35 04	<u>Jugoslavia</u> 44.7 N 17.4 E
	ei	36 10	H = 22 33 15 (BCIS)
	eISn	36 30	D = 7.1
	e	36 44	
	e	36 52	
5.	e	23 09 36	LmV(C):18s 0.6 $\mu$ m LmH(C):20s 1.3 $\mu$ m
	LmV	18.6	
	LmH	18.7	
6.	iPg iSg	11 59 27 59 44	<u>Explosion</u> 49°49.5'N 13°10'E 4 to (PRU) D = ca. 1.3
	e e	14 06 39 06 50	
6.	ePKP e	22 18 47 18 57	<u>Samoa Islands</u> 16.87 S 172.55 W H = 21 59 07.9 h = normal MAG=4.5 D = 146.1 Az = 355.2 (USCGS)

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Day	Phase	h m s	Remarks	
7.	e	05 16 52	<u>Near North Coast of New Guinea</u>	
	e	16 54	3.42 S 145.88 E	
	e	17 57	H = 04 57 49.0 h = 15 km MAG=5.3	
	ePP	18 05	D = 119.3 Az = 328.5 (USCGS)	
	e C	18 09	LmH:20.5s 25.4 $\mu$ m LmV:19s 25.0 $\mu$ m	
	e B	18 10	MLH=6.8 MLV=6.9	
	e	25 10		
	ePS	27 48		
	eSS B	34 42		
	eiSS C	34 48		
	LmH LmV	06 07.8 10.7		
7.	iPg iSg	12 51 54.5 52 23.5	<u>Explosion</u> D = ca. 2.3	
	7.	eP e ePP eS ePS eSS	15 52 49.5 52 51 55(48) 16 02 48 03 27 07(40)	<u>Rat Islands, Aleutian Is.</u> 51.58 N 175.68 E H = 15 40 57.9 h = normal MAG=5.3 D = 77.3 Az = 349.7 (USCGS) PV2:1.6s 88.0nm LmH:16s 1.5 $\mu$ m LmV:15s 0.6 $\mu$ m MPV=5.6 MLH=5.4 MLV=5.1
LmH LmV		44.5 48.5		
7.		+1P e	15 58 35 58 42	<u>Rat Islands, Aleutian Is.</u> 51.55 N 175.79 E H = 15 46 45.2 h = 59 km MAG=5.0 D = 77.3 Az = 349.7 (USCGS) PV:1.5s 35.1nm MPV=5.1
		7.	eP	16 05 00

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Day	Phase	h m s	Remarks
7.	eP e	16 08 07 08 18	<u>Rat Islands, Aleutian Is.</u> 51.43 N 175.60 E H = 15 56 13.6 h = normal MAG=4.8 D = 77.4 Az = 349.6 (USCGS) PV:1.2s 13.3nm MPV=5.0
7.	eP	16 12 18	<u>Rat Islands, Aleutian Is.</u> 51.56 N 175.69 E H = 16 00 25.5 h = normal MAG=4.7 D = 77.3 Az = 349.7 (USCGS)
7.	ePKIKP LmH LmV	17 29 15 18 32.0 38.0	<u>New Hebrides Islands</u> 14.02 S 166.81 E H = 17 09 52.5 h = 56 km MAG=5.1 D = 138.3 Az = 336.6 (USCGS) PV:1.8s 27.0nm LmH:20s 0.7 $\mu$ m LmV:18s 0.5 $\mu$ m MLH=5.4
7.	e	17 32 50	
7.	eIPKIKP ePP eSKSP e eSS eSSS LmV LmH	20 54 17 55 55 21 06 00 07 35 13 28 17 44 45.3 45.5	<u>Off Coast of Southern Chile</u> 44.95 S 80.27 W H = 20 35 21.2 h = normal MAG=5.6 D = 123.9 Az = 50.1 (USCGS) PV:1.6s 63.3nm LmV:20s 1.1 $\mu$ m LmH:20s 1.1 $\mu$ m MLV=5.5 MLH=5.5
7.	+eIPKP i i epPKP eisPKP A isPKP B i eSS	21 55 17 55 17.5 55 19.5 55 34 55 42 55 45 55 52 22 17 40	<u>New Hebrides Islands</u> 20.66 S 169.40 E H = 21 35 44.8 h = 61 km MAG=5.6 D = 145.3 Az = 335.0 (USCGS) PV3:1.8s 546.0nm LmV:24s 1.3 $\mu$ m LmH:24s 1.5 $\mu$ m

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Day	Phase	h m s	Remarks
cont.			
7.	eSSS LmV LmH	22 22 40 58.8 59.0	
7.	e	23 52 08	
8.	ePKP2 e	07 47 03 47 24	<u>West of Macquarie Islands</u> 53.72 S 140.17 E H = 07 27 10.0 h = normal D = 148.9 Az = 285.6 PV:2.0s 42.6nm
8.	eP LmH LmV	09 21 02.5 56.0 10 03.1	<u>Ryukyu Islands</u> 27.42 N 128.32 E H = 09 08 34.5 h = 54 km MAG=5.1 D = 84.3 Az = 325.1 (USCGS) PV:1.5s 35.2nm LmH:20s 0.4 $\mu$ m LmV:18s 0.4 $\mu$ m MPV=5.4 MLH=4.8 MLV=4.9
8.	e	16 00 08	<u>Kirgiz SSR</u> 41.58 N 75.10 E H = 15 51 59.9 h = normal MAG=4.8 D = 43.7 Az = 304.4 (USCGS)
8.	ePKP e LmH LmV	20 18 09 18 35 29.9 37.3	<u>Samoa Islands</u> 16.46 S 172.81 W H = 19 58 32.2 h = normal MAG=4.9 D = 145.7 Az = 355.0 (USCGS) PV:2.4s 69.0nm LmV:16s 0.3 $\mu$ m
9.	e e LmH LmV	01 39 53 44 14 45.3 45.8	<u>Spain</u> 39.40 N 0.11 W H = 01 36 26.0 h = normal MAG=4.5 D = 14.0 Az = 32.5 (USCGS) LmH:11s 2.9 $\mu$ m LmV:12s 2.3 $\mu$ m MLH=4.6
9.	ePg i eSg	01 53 06 53 12.5 53 14	<u>Switzerland</u> 46.3 N 7.7 E H = 01 51 29 (BCIS) D = 5.1 PV:0.6s 30.7nm



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Day	Phase	h m s	Remarks
9.	ePb iSn eiSg e	05 14(29) 15 16 15 45 15 48	<u>Yugoslavia</u> 45.7 N 14.1 E H = 05 12 56 (BCIS) D = 5.2
9.	LmH LmV	10 59.5 11 02.0	Probably <u>New Britain Region</u> (USCGS) LmV:20s 0.4/um
9.	eP LmV LmH	20 26 27 34.9 35.0	<u>Dodekanese Islands</u> 36.53 N 26.97 E H = 20 22 21.5 h = 93 km MAG=3.8 D = 17.9 Az = 326.8 (USCGS) PV:1.3s 21.8nm LmV:12s 0.6/um LmH:12s 0.6/um MPV=4.2
10.	eP LmH LmV	11 31 50 36.5 37.8	<u>Greece</u> 38.86 N 21.61 E H = 11 28 37.5 h = 65 km MAG=4.6 D = 13.7 Az = 332.3 (USCGS) LmH:14s 1.7/um LmV:14s 0.7/um
11.	ePKHKP ePKP2 e e e(pPKP)	03 11 13 11 28 11 42 11 47 12 13	<u>South of Fiji Islands</u> 23.81 S 176.42 W H = 02 51 42.9 h = 244 km MAG=4.5 D = 152.5 Az = 348.9 (USCGS)
11.	eP e +ipP LmH LmV	11 57 49 57 50 57 59 12 37.5 38.4	<u>Shikoku, Japan</u> 38.60 N 133.99 E H = 11 45 30.8 h = 32 km MAG=5.4 D = 81.9 Az = 327.1 (USCGS) PV2:2.0s 85.5nm pPV:2.0s 152.0nm LmH:18s 1.7/um LmV:16s 1.6/um MPV=5.5 MLH=5.5 MLV=5.5
11.	ePg eSg	13 00 15 00 28	Explosion D = ca.1.0
11.	eP e	20 37(18) 37 32	<u>North Atlantic Ridge</u> 24.51 N 45.61 W H = 20 28 16.0 h = normal MAG=4.8 D = 50.8 Az = 43.7 (USCGS)

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Day	Phase	h m s	Remarks
11.	ePKHKP e e e e	21 53 55 54 03 54 11 54 16 54 57	<u>South of Fiji Islands</u> 23.88 S 176.13 W H = 21 34 07.5 h = 95 km MAG=5.4 D = 152.6 Az = 349.2 (USCGS) PV:1.2s 28.4nm
11.	ePKHKP LmH LmV	22 50 47 23 12.4 17.7	<u>South of Fiji Islands</u> 23.71 S 176.17 W H = 22 30 53.2 h = normal MAG=4.9 D = 152.4 Az = 349.3 (USCGS) LmH:20s 0.7/um LmV:18s 0.9/um MLH=5.4
12.	ePKP	00 44 21	<u>Fiji Islands</u> 15.83 S 177.84 W H = 00 24 39.0 h = 20 km MAG=5.1 D = 144.4 Az = 349.6 (USCGS) PV:1.5s 40.3nm
12.	+iP	05 38 59	<u>Mindanao, Philippine Islands</u> 9.67 N 125.73 E H = 05 25 37.2 h = 113 km MAG=5.6 D = 97.3 Az = 324.1 (USCGS) PV:1.4s 39.5nm MPV=5.8
12.	-iPKP	07 38 32.5	<u>Fiji Islands</u> 15.99 S 177.77 W H = 07 19 44.8 h = 431 km MAG=5.5 D = 144.6 Az = 349.7 (USCGS) PV:1.4s 116.0nm
12.	+iPg e e iSg	10 01 03 01 04 01 18 01 23	Probably explosion D = ca. 1.6 PV2:1.1s 40.3nm
12.	LmH LmV	16 58.1 59.9	Probably <u>Luzon, Philippine Islands</u> (USCGS) LmH:18s 0.6/um LmV:14s 0.6/um

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Day	Phase	h m s	Remarks
12.	eP	17 39 05	<u>Western Gulf of Aden</u> 12.08 N 45.87 E H = 17 30 30.2 h = normal MAG=4.6 D = 47.5 Az = 330.9 (USCGS)
13.	ePg eSn	00 49 02 49 28	<u>Italy</u> 46.1 N 11.0 E H = 00 47 23 (BCIS) D = 4.6
14.	eIP e ePP ePPP eS iPS eSS LmH LmV	10 10 55 11 05 13 48 15 40 20 50 21 32 25.58 50.6 55.2	<u>Rat Islands, Aleutian Islands</u> 51.48 N 175.75 E H = 09 59 02.3 h = normal MAG=5.2 D = 77.4 Az = 349.7 (USCGS) PV:2.4s 174.0nm LmH:17s 3.5 $\mu$ m LmV:17s 2.3 $\mu$ m MPV=5.8 MLH=5.7 MLV=5.6
14.	ePg eSg	10 20 40 20 54	Explosion D = ca. 1.0
14.	eP e	11 55 34 55 44	<u>South of Indian Ocean</u> 3.09 S 85.46 E H = 11 43 14.2 h = normal MAG=5.1 D = 82.2 Az = 321.9 (USCGS)
14.	ePn ePg eSn eSg	17 46 52 47 23 48 07 48 54	<u>Central Italy</u> 43.95 N 11.63 E H = 17 45 11.8 h = normal MAG=4.0 D = 6.7 Az = 359.9
15.	+iP iP epP ePP ePPP eiS iS eSS	B 02 26 09.5 A 26 10 26 19 29 08 31 00 C 36 00 B 36 08 41 00	<u>Rat Islands, Aleutian Is.</u> 51.65 N 175.80 E H = 02 14 17.5 h = normal MAG=5.7 D = 77.2 Az = 349.7 (USCGS) PV:2.2s 454.0nm LmH:19s 8.0 $\mu$ m LmV:16s 5.8 $\mu$ m MPV=6.2 MLH=6.1 MLV=6.0

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Day	Phase	h m s	Remarks
cont.			
15.	eSSS LmH LmV	02 44 40 03 02.2 10.3	
15.	iP <del>i</del> LmH	02 40 24 40 25 03 20.0	<u>Rat Islands, Aleutian Is.</u> 51.72 N 175.78 E H = 02 28 32.4 h = normal MAG=5.4 D = 77.1 Az = 349.7 (USCGS) PV:1.9s 129.0nm LmH:16s 6.6 $\mu$ m MPV=5.7 MLH=6.0
15.	iPKHKP	09 21 27	<u>Fiji Islands</u> 20.59 S 178.03 W H = 09 02 31.3 h = 470 km MAG=4.7 D = 149.1 Az = 348.0 (USCGS) PV:1.3s 30.4nm
15.	eiP e e	14 13 23.5 13 27 14 04	<u>Kurile Islands</u> 49.61 N 155.69 E H = 14 01 43.5 h = 50 km MAG=5.4 D = 75.5 Az = 337.3 (USCGS) PV:1.6s 49.4nm MPV=5.2
16.	e	03 20 15	<u>South of Panama</u> 7.12 N 82.24 W H = 03 07 24.1 h = 16 km MAG=5.3 D = 87.0 Az = 39.5 (USCGS)
16.	e	10 12 42	<u>Svalbard</u> 79.81 N 5.24 E H = 10 06 24.7 h = normal MAG=4.2 D = 29.4 Az = 171.7 (USCGS)
16.	ePKP	11 06 12	<u>New Hebrides Islands</u> 17.96 S 108.08 E H = 10 46 46.6 h = 49 km MAG=5.1 D = 142.4 Az = 335.4 (USCGS) PV:1.1s 12.1nm
16.	ePKHKP iPKP2	11 46 07 46 18	<u>South of Fiji Islands</u> 24.24 S 179.04 E H = 11 27 13.2 h = 550 km MAG=3.9 D = 151.9 Az = 342.9 (USCGS)

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Day	Phase	h m s	Remarks
16.	eP	21 35 09	<u>Off East Coast of Honshu, Japan</u>
	epP	35 18	39.77 N 143.57 E
	LmH	22 10.2	H = 21 22 57.1 h = 26 km MAG=4.7
	LmV	17.5	D = 80.6 Az = 331.3 (USCGS) PV:2.0s 68.4nm LmH:17.5s 3.2 $\mu$ m LmV:18s 2.2 $\mu$ m MPV=5.3 MLH=5.7 MLV=5.6
17.	eP	12 13 11	<u>Southern Alaska</u> 60.17 N 152.84 W
	i	13 12.2	H = 12 02 15.0 h = 86 km MAG=5.9
	ipP	13 36	D = 68.8 Az = 10.5 (USCGS)
	iS	22 07	PV:1.2s 590.0nm
	isS	22 56	MPV=6.4
	ePKPPKP	41 16	e 41 (06) e 41 10 e 41 23 e 42 52
	eSKPPKP	44(40)	
	ePKPPKS	44 50	
17.	e	17 26 16	
17.	eP	22 28 36	<u>Off East Coast of Honshu, Japan</u>
	e	28 46	39.56 N 143.54 E H = 22 16 26.1 h = 57 km MAG=4.6 D = 80.8 Az = 331.3 (USCGS) PV:1.5s 25.1nm MPV=4.9
18.	iPKP	04 57 30.4	<u>Loyalty Islands</u> 21.75 S 169.85 E H = 04 37 50.7 h = 24 km MAG=4.8 D = 146.5 Az = 334.7 (USCGS) PV:1.0s 31.5nm
18.	eP	05 09 46	<u>Eastern Kazakh SSR</u> 49.72 N 78.06 E
	i	09 47.4	H = 05 01 57.0 h = 0 km MAG=5.2
	i	09 51.9	D = 41.3 Az = 297.7 (USCGS)
	ePn	11 19	PV2:0.8s 30.8nm MPV=5.1

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Day	Phase	h m s	Remarks
18.	ePKP	17 47 55	<u>Tonga Islands</u> 19.54 S 173.45 W
	e	48 09	H = 17 28 10.2 h = normal MAG=4.9 D = 148.7 Az = 353.8 (USCGS) PV:2.0s 38.4nm
18.	LmH	20 24.9	Probably <u>Near East Coast of Honshu, Japan</u>
	LmV	31.3	
18.	ePKIKP	20 22 45.5	<u>Fiji Islands</u> 19.89 S 177.63 W
	iPKHKP	22 48	H = 20 03 43.9 h = 367 km MAG=5.5
	ePKP2	22 53	D = 148.4 Az = 348.7 (USCGS)
	epPKP	24 24	
	eSKP	25 52	
	18.	eP	21 06 34
19.	eP	00 40 40	<u>Molucca Sea</u> 0.18 S 124.34 E H = 00 26 37.9 h = 46 km MAG=5.5 D = 104.4 Az = 322.7 (USCGS)
19.	+iP	05 25 44.8	<u>Hindu Kush</u> 36.14 N 70.11 E
	ipP	26 17	H = 05 17 51.7 h = 151 km MAG=5.4
	eiPP	27 21	D = 43.8 Az = 308.3 (USCGS)
	eipPP	27 57	PV:1.4s 192.0nm LmV:13.5s 1.7 $\mu$ m
	e	28 18	MPV=5.5
	eS	32 00	
	esS	33 00	
	eSS	35 12	
	ei	35 25	
	LmV	47.7	
LmH	47.8		
19.	+iP	15 27 24.8	<u>Near East Coast of Kamchatka</u>
	iPcP	27 43	53.32 N 160.14 E
	eS C	36 40	H = 15 15 55.7 h = normal MAG=5.4
	eS B	36 44	D = 73.1 Az = 339.7 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
19.	ePPS	15 37 36	LmH:22s 4.9 $\mu$ m LmV:14s 3.3 $\mu$ m
	e	42 40	MLH=5.7 MLV=5.8
	LmH	58.3	
	LmV	16 05.5	
19.	+iP	16 42 18.1	<u>Southern Nevada</u> , nuclear explosion
	ePP	45 22	37.23 N 116.47 W
	LmV	17 21.3	H = 16 30 00.0 h = 0 km MAG=6.3
	LmH	21.6	D = 81.3 Az = 30.5 (USCGS)
			PV:1.5s 310.0nm
			LmV:14s 2.4 $\mu$ m LmH:14s 2.9 $\mu$ m
			MPV=6.1 MLV=5.7 MLH=5.8
20.	ePg	12 00 05	Explosion 50°34.8'N 14°00.9'E 10.4 to
	iSg	00 25.5	(PRU)
			D = ca. 1.6
			PV:0.7s 38.8nm
20.	ePKIKP	17 01 23	<u>South of Fiji Islands</u> 23.69 S 176.15 W
	ePKHKP	01 31	H = 16 41 41.4 h = 64 km MAG=4.9
	ePKP2	01 40	D = 152.4 Az = 349.3 (USCGS)
	e	01 44	
	e	01 50	
20.	e(P)	21 55 29	<u>Mindanao, Philippine Islands</u>
	e	55 39	9.17 N 125.44 E
			H = 21 41 59.5 h = 93 km MAG=5.2
			D = 97.6 Az = 324.0 (USCGS)
			LmH:24s 1.1 $\mu$ m
21.	eP	00 40 48	<u>Dodekanese Islands</u> 36.56 N 27.11 E
	+i	40 50.5	H = 00 36 37.3 h = 17 km MAG=4.6
	LmH	49.3	D = 17.9 Az = 326.5 (USCGS)
	LmV	49.3	LmH:11.5s 2.1 $\mu$ m LmV:8s 2.8 $\mu$ m
			MLH=4.1
21.	eP	03 08 55.5	<u>Dodekanese Islands</u> 36.5 N 27.0 E
			H = 03 04 43 (BCIS)
			D = 17.9

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Day	Phase	h m s	Remarks
21.	eP	13 10 21.5	<u>Off East Coast of Honshu, Japan</u>
	epP	10 31	40.58 N 143.75 E
	LmH	44.5	H = 12 58 14.4 h = normal MAG=4.5
	LmV	52.0	D = 80.0 Az = 331.4 (USCGS)
			LmH:19s 2.4 $\mu$ m LmV(C):16s 0.8 $\mu$ m
			MLH=5.5 MLV=5.2
21.	ePKP	22 26 02.5	<u>Tonga Islands</u> 20.54 S 174.71 W
			H = 22 06 14.3 h = normal MAG=4.6
			D = 149.5 Az = 352.1 (USCGS)
22.	-eiP	09 17 03.5	<u>Tsinghai Province, China</u> 36.20 N 101.88 E
	e	17 28	H = 09 06 36.3 h = normal MAG=5.5
	ePP	19 22	D = 63.2 Az = 314.5 (USCGS)
			PV:1.7s 69.5nm
			MPV=5.5
22.	ePKP	13 00 30	<u>Fiji Islands</u> 20.28 S 178.05 W
			H = 12 41 42.2 h = 527 km MAG=4.3
			D = 148.7 Az = 348.1 (USCGS)
			PV:1.0s 21.9nm
22.	LmH	16 38.0	Probably <u>Bismarck Sea</u> (USCGS)
	LmV	38.5	
22.	+iP	16 56 11.3	<u>Kodiak Islands</u> 56.31 N 153.84 W
	-ipP	56 19	H = 16 44 44.2 h = normal MAG=5.3
			D = 72.7 Az = 9.6 (USCGS)
			PV:1.7s 120.0nm
			MPV=6.0
22.	LmH	18 41.0	Probably <u>West New Guinea Region</u>
			LmH:18s 5.5 $\mu$ m
23.	e	04 17 08	
23.	LmH	06 58.4	Probably <u>Molucca Passage</u> (USCGS)
			LmH(C):25s 1.2 $\mu$ m

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Day	Phase	h m s	Remarks
23.	eP	11 37 23	<u>Southern Italy</u> 39.74 N 16.81 E H = 11 34 38.5 h = normal MAG=4.1 D = 11.5 Az = 343.2 PV:1.5s 24.8nm
23.	e	21 08 03	
24.	e	00 10 10	
24.	e	00 44 53	
24.	eP e e	12 13 26 13 31.5 13 35.5	<u>Kurile Islands</u> 43.44 N 146.74 E H = 12 01 27.3 h = 39 km MAG=4.7 D = 78.5 Az = 332.7 (USCGS) PV:1.3s 17.5nm MPV=5.0
25.	ePKIKP ePKHKP ePKP2	00 54 45 54 50 54 57.5	<u>Fiji Islands</u> 20.77 S 178.38 W H = 00 36 05.6 h = 570 km MAG=4.6 D = 149.2 Az = 347.5 (USCGS) PV:1.5s 30.0nm
25.	-1P e e(PP) LmH LmV	04 08 38.5 08 44 11 49 42.1 48.0	<u>Hokkaido, Japan</u> 41.75 N 142.82 E H = 03 56 39.2 h = 36 km MAG=5.3 D = 78.6 Az = 330.7 (USCGS) PV:1.3s 30.6nm LmH:17.5s 3.9 $\mu$ m LmV:12s 1.6 $\mu$ m MPV=5.2 MLH=5.8 MLV=5.6
25.	eP	07 56 26	<u>Andreanof Islands, Aleutian Is.</u> 51.70 N 174.28 W H = 07 44 30.3 h = 40 km MAG=4.1 D = 77.9 Az = 356.2 (USCGS)
25.	ePKP2 e	08 46 05 46 16.5	<u>South of Kermadec Islands</u> 32.07 S 178.02 W H = 08 25 29.1 h = normal MAG=4.9 (USCGS) D = 160.1 PV:1.4s 23.2nm

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Day	Phase	h m s	Remarks
25.	eP	08 59 42	<u>Fox Islands, Aleutian Is.</u> 53.03 N 167.68 W H = 08 47 54.4 h = 46 km MAG=4.6 D = 76.7 Az = 0.5 (USCGS) PV:1.1s 20.2nm MPV=5.2
25.	eP e eI i LmH LmV	12 21 29 21 35 27 37.5 27 42 30.1 30.1	<u>Crete</u> 35.13 N 24.33 E H = 12 17 20.8 h = 68 km MAG=5.0 D = 18.1 Az = 333.1 (USCGS) PV:1.4s 32.4nm LmH:14.5s 2.2 $\mu$ m LmV:14s 2.2 $\mu$ m MPV=4.3 MLH=4.5
25.	ePKP2	19 17 16.5	<u>Kermadec Island Region</u> 30.19 S 177.90 W H = 18 56 49.4 h = 50 km MAG=4.9 (USCGS) D = 158.4 PV:1.2s 12.5nm
25.	ePKP2	23 01 49	<u>Kermadec Islands Region</u> 30.70 S 178.11 W H = 22 41 16.1 h = 43 km MAG=4.9 (USCGS) D = 158.9
26.	ePKP2	13 42 11	<u>Fiji Islands</u> 18.01 S 178.73 W H = 13 23 38.0 h = 666 km MAG=4.1 D = 146.4 Az = 348 (USCGS)
27.	LmH LmV	08 02.8 02.8	<u>Sinkiang, China</u> , Atmospheric nuclear explosion (UPP) LmH:15s 0.8 $\mu$ m LmV:16s 1.5 $\mu$ m
27.	-eP epP	14 48 55 49 04	<u>India-East Pakistan Border Region</u> 24.13 N 91.60 E H = 14 38 11.6 h = 26 km MAG=5.2 D = 65.5 Az = 316.5 (USCGS)
28.	LmH LmV	07 40.0 40.0	Probably <u>West New Guinea</u> (USCGS)

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Day	Phase	h m s	Remarks
29.	ePKHKP	02 15 41	<u>Kermadec Islands</u> 29.95 S 178.17 W
	ePKP2	16 00	H = 01 55 33.5 h = 66 km MAG=5.1
	e	16 12	D = 158.1 Az = 343.2 (USCGS)
	e	16 39	PV:1.3s 13.2nm
29.	e	04 28 39	
29.	ePKP	05 32 53.5	<u>Tonga Islands</u> 15.55 S 173.37 W
			H = 05 13 29.7 h = 125 km MAG=4.9 D = 144.8 Az = 354.5 (USCGS)
29.	eP	07 28 54.5	<u>Mindoro, Philippine Islands</u>
	ePP	32 27.5	13.58 N 120.55 E
	e	32 32	H = 07 15 50.5 h = normal MAG=5.4
	e	32 42	D = 91.2 Az = 323.0 (USCGS)
	e	32 52	PV:1.3s 17.5 nm
	eS	39 50	LmH:16s 2.8 $\mu$ m LmV:13s 1.8 $\mu$ m
	ePS	41 00	MPV=5.2 MLH=5.8 MLV=5.7
	eSS	46 00	
	LmH	08 11.5	
	LmV	16.9	
29.	e	08 09 22.5	<u>South of Kermadec Islands</u>
	ePKP2	09 42	32.00 S 178.31 W H = 07 49 21.2 h = 170 km MAG=4.7 D = 160.0 Az = 341.3 (USCGS)
29.	ePn	16 46 22.5	<u>Switzerland</u> 46.1 N 7.5 E
	e	47 48.5	H = 16 45 01 (BCIS)
	eSn	47 53.5	D = 5.3
	e	47 58	
29.	eP	17 49 13	<u>Near Coast of Chiapas, Mexico</u>
	e	49 15	14.49 N 92.40 W
	e	49 37.5	H = 17 36 29.9 h = 60 km MAG=5.4
	eS	59 45	D = 87.6 Az = 38.2 (USCGS)
	eSS	18 05 35	PV2:2.0s 29.8nm
	eSSS	09.6	LmV:14s 0.7 $\mu$ m LmH:17.5s 1.6 $\mu$ m
	LmV	30.7	MPV=5.2
	LmH	31.3	

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Day	Phase	h m s	Remarks
29.	ePKP	20 22 05.5	<u>Fiji Islands</u> 20.19 S 177.95 W
			H = 20 03 19.4 h = 550 km MAG=4.5 D = 148.7 Az = 348.3 (USCGS) PV:1.3s 28.4nm
30.	ePKP	05 08 17.5	<u>Samoa Islands</u> 16.29 S 172.58 W
	e	08 23	H = 04 48 40.9 h = normal MAG=5.2
	e	08 29	D = 145.6 Az = 355.3 (USCGS)
	e	08 36	
	e	08 53	
30.	+iP	07 14 29	<u>Kodiak Islands</u> 57.59 N 151.38 W
	-iP	14 39	H = 07 03 11.7 h = 34 km MAG=5.4
	e	14 52	D = 71.2 Az = 11.3 (USCGS) PV:1.2s 62.7nm MPV=5.6
30.	ePKHKP	09 32 15	<u>South Pacific Cordillera</u> 55.22 S 129.02 W
			H = 09 12 14.8 h = normal MAG=4.8 D = 156.1 Az = 84.6 (USCGS)
30.	+iP	10 32 40	<u>Svalbard</u> 76.23 N 7.47 E
	iP	32 47	H = 10 27 09.7 h = 23 km MAG=5.0
	eS	37 16	D = 25.7 Az = 173.9 (USCGS)
	iS	37 20	PV:0.9s 50.7nm SH:14s 1.2 $\mu$ m
	LmV	44.2	LmV:12.5s 1.9 $\mu$ m LmH:14.5s 1.9 $\mu$ m
	LmH	44.3	MPV=5.2 MSH=5.5 MLV=5.0 MLH=4.8
30.	eP	22 24 07.5	<u>Taiwan</u> 23.23 N 121.48 E
	e	24 28	H = 22 11 34.0 h = 2 km MAG=4.7
	LmH	23 02.0	D = 84.1 Az = 323.0
	LmV	06.7	LmH:13s 1.3 $\mu$ m LmV:12s 1.5 $\mu$ m MLH=5.5 MLV=5.6

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**AUTORENKOLLEKTIV****COSPAR****Space Research XI**

Proceedings of Open Meetings of Working Groups of the Thirteenth Plenary Meeting of COSPAR

Leningrad, USSR, 20–29 May 1970 and of The Symposium on Remote Sounding of the Atmosphere (jointly sponsored by COSPAR, WMO and IAMAP/IUGG) Leningrad, USSR, 22, 25 and 26 May 1970

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Vol. 2

1971. XX, 1415 Seiten – 840 Abbildungen – 172 Tabellen – Leinen 200, – M  
Bestell-Nr. 761 513 3 (3059/XI)

**Space Research XII**

Proceedings of Open Meetings of Working Groups of the Fourteenth Plenary Meeting of COSPAR Seattle, Washington, USA, 21 June–2 July, 1971 and of The Symposium on Total Solar Eclipse of 7 March, 1970 Seattle, Washington, USA, 18, 19 and 21 June, 1971 and of The Symposium on Dynamics of the Thermosphere and Ionosphere Above 120 km Seattle, Washington, USA, 24, 25 and 26 June, 1971 and of The Symposium on High Angular Resolution Astronomical Observations from Space Seattle, Washington, USA, 28, 29, 30 June and 1 July, 1971

Edited by S. A. Bowhill/L. D. Jaffe/M. J. Rycroft

Vol. 2

1972. XL, 1815 Seiten – 995 Abbildungen, 7 davon in Farbe – 120 Tabellen  
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Dr.-Ing. habil. KURT ARNOLD

## Methoden der Satellitengeodäsie

1970. XIII, 231 Seiten — 52 Abbildungen — 11 Tabellen —  
gr. 8° — Leinen 48,— M  
Bestell-Nr. 761 334 9 (5776)

Die wissenschaftliche Nutzung der künstlichen Erdsatelliten hat für die Geodäsie in den letzten Jahren revolutionierende Möglichkeiten eröffnet, die den Triangulationen und Schweremessungen an der Erdoberfläche verschlossen geblieben sind. Das vorliegende Werk umfaßt im wesentlichen das gesamte Gebiet der Satellitengeodäsie.

Ausführlich werden die benötigten astronomischen und geodätischen Koordinatensysteme, die Reduktionsverfahren, insbesondere für photographische Satellitenbeobachtungen, und die Berechnung der Ephemeriden der künstlichen Erdsatelliten behandelt. Die verschiedenen Methoden der geometrischen Satellitengeodäsie (kosmische Triangulation) zur Bestimmung von großräumigen geodätischen Netzen aus Simultanbeobachtungen an zwei und mehr Stationen werden umfassend in Theorie und Praxis dargestellt.

Abschließend werden die Verfahren der dynamischen Satellitengeodäsie von verschiedenen Standpunkten aus betrachtet.

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PAUL RAMDOHR

## The Opaque Minerals in Stony Meteorites

(In englischer Sprache)

1973. 245 S. — 306 Abb. — gr. 8° — Leinen 48,— M  
Bestell-Nr. 761 333 0 (5764)

Ziel der Arbeit war, einen allgemeinen Überblick über den Bestand an „Erzmineralien“ an den Steinmeteoriten zu gewinnen. Es wurden hierzu etwa 360 Fallorte in fast 500 Anschliffen in besterreichbarer Qualität erzmikroskopisch gründlich untersucht.

Die Verhältnisse sind sehr viel komplizierter als bisher angenommen werden konnte. So wurden etwa 35 Opak-Komponenten festgestellt, von denen rund 15 völlig neu sind, 7 weitere in Meteoriten bisher überhaupt nicht, und weiter einige nur als große und angezweifelte Seltenheiten bekannt waren.

Der Autor versuchte weiterhin zu zeigen, daß die Untersuchung guter Anschliffe auch über die Verwachsungsarten viel klarer Bilder zu liefern im Stande ist, als jede andere.

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