

# Biographien bedeutender Geowissenschaftler der Sowjetunion

19 biographische Darstellungen zu bedeutenden Gelehrten der russischen und sowjetischen Geologiegeschichte

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In diesem Band werden erstmals im deutschen Sprachbereich russische und sowjetische Forscherpersönlichkeiten auf dem Gebiet der Geologischen Wissenschaften vorgestellt. Autoren aus der Sowjetunion und der DDR bringen nach kurzen biographischen Daten eine Würdigung und kritische Einschätzung der wissenschaftlichen Leistungen der einzelnen Gelehrten. Dabei wurde eine Einordnung in das Gesamtbild der Wissenschaften — insbesondere in Westeuropa — in der Lebensperiode der Forscher angestrebt. So gewinnt der Leser einen Einblick in die vielfältigen Leistungen russischer und sowjetischer Wissenschaft, die aus den verschiedensten Gründen bisher in Mittel- und Westeuropa unbekannt waren und unbeachtet blieben. Es wird deutlich, daß die wissenschaftlichen Leistungen dieser Gelehrten nicht hinter denen Westeuropas zurückstehen und sie gerade in jüngster Zeit häufig noch übertreffen.

*Bestellungen durch eine Buchhandlung erbeten.*



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Zentralinstitut für Physik der Erde (ZIPE)

## Seismological Bulletin 1974 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth,  
and Joachim Weyrauch



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With 1 Figure



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## PREFACE

The annual Seismological Bulletin 1974 for the Station Moxa (MOX) continues the series of publications about seismological records at the Station Moxa edited by the Central Earth Physics Institute of the Academy of Sciences of the German Democratic Republic.

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

The annual Bulletin 1974 was prepared by DOROTHEA GÜTH and JOACHIM WEYRAUCH with the technical assistance of URSULA DÖRING.

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

H. KAUTZLEBEN  
Director

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## TABLE OF CONTENTS

Preface . . . . .	3
Table of Contents . . . . .	5
The Seismological Bulletin	
Preliminary Notes for Interpretation of Seismograms . . . . .	7
Seismographs of Station Moxa and their Parameters 1974 . . . . .	11
Amplitude Characteristics of Station Moxa 1974 . . . . .	13
Seismological Recordings at Station Moxa 1974 . . . . .	15

## Preliminary notes for the interpretation of seismograms

In the Bulletin the international code is used:

### 1. Phase interpretation

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

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

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

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

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

## 2. Measurements of amplitudes and calculation of magnitudes

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

Data of amplitudes obtained from records of instruments of type A are given in units of length of nm ( $1 \text{ nm} = 1 \text{ nanometre} = 10^{-6} \text{ millimetre}$ ). Data of amplitudes obtained from instruments of type B and such obtained from instruments of type C are given in units of length  $\mu\text{m}$  ( $1 \mu\text{m} = 1 \text{ micrometre} = 10^{-3} \text{ millimetre}$ ) e.g.: PVA 1.3 s 38.6 nm, SHB 10 s 3.2  $\mu\text{m}$ , LmH B 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 P(PH, PV), PP(PPH, PPV), and S(SH)-Q-functions from GUTENBERG and RICHTER [3] — and

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

The station correction S was not yet taken into consideration.

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

## 3. Direction of body-wave onsets

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

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

## 4. Further abbreviations

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

- D — epicentral distances in degree ( $^{\circ}$ ), calculated according to geocentric coordinates, the maximum error of the own calculations amounts to  $\pm 0,1^{\circ}$ .
- Az — azimuth: clockwise measured angle between north direction in epicentre and the connecting line from epicentre to station Moxa
- h — depth of focus in km, our data for depth of focus are based on travel-time curves for deep focus earthquakes after GUTENBERG and RICHTER [5]
- H — origin time in UTC (Universal Time)
- NEIS — National Earthquake Information Service, Denver, Colorado, USA
- BCIS — Bureau Central International de Seismologie, Strasbourg, France,
- ANUSSR — Akademia Nauk USSR, Moscow, USSR
- AEC — United States Atomic Energy Commission, Washington, D. .
- ISC — International Seismological Centre, Newbury, UK
- NORSAR — Norwegian Seismic Array, Kjeller, Norway

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

Round brackets indicate uncertainties in interpretation of phase, time, depth of focus or epicentral distances, respectively.

- [1] BOLT, A., The velocity of seismic waves near the 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 65 (1966/II) 19—30.
- [3] GUTENBERG, B. and RICHTER, C. F., Magnitude and energy of earthquakes. Annali di Geofisica 9 (1956) 1, 1—15.
- [4] KÁRNÍK, V., KONDORSKAJA, N. V. u. a., Standardization of the earthquake magnitude scale. Stud. Geophys. et Geodet., Prague 6 (1962) 41—48.
- [5] GUTENBERG, B. and RICHTER, C. F., Materials for the study of deep-focus earthquakes. Bull. Seism. Soc. Am. 26 (1936) 4, 341—390.

### Seismological Station Moxa (MÓX) of the Central Earth Physics Institute

Elevation above  
mean sea level: 455 m

Bedrock: clay slate of the lower carboniferous formation

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

Address: Central Earth Physics Institute  
Seismological Service  
DDR-69, Jena, Burgweg 11  
German Democratic Republic  
Telex: 058 86275 seis dd

### Seismographs and their parameters 1974

- $T_s$  — seismometer free period
- $T_g$  — galvanometer free period
- $D_s$  — seismograph damping
- $D_g$  — galvanometer damping
- $V_0$  — magnification factor
- N — north-south component
- E — east-west component
- Z — vertical component
- $\sigma^2$  — 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]	$D_s$	$D_g$	$V_o$	$\sigma^2$	
A	VSJ II	Z	0.23	0.065	0.33	1.2	300000	0.048
	VSJ II	Z	1.0	1.0	0.5	0.5	47200	0.56
	SKM III	N	1.64	0.39	0.52	1.97	24000	0.047
B	SSJ I	E	1.63	0.40	0.50	1.92	24700	0.047
		Z	1.64	0.39	0.51	1.96	23400	0.050
	N	20	1.13	0.50	8.87	109	0.077	
	N	20	1.14	0.50	8.79	1110	0.077	
	E	20	1.13	0.49	8.85	103	0.070	
	E	20	1.16	0.49	8.61	1050	0.070	
	Z	20	1.13	0.48	8.82	108	0.057	
	Z	20	1.24	0.48	8.05	910	0.057	
C	SSJ I/L (until March. 12.)	N	30	89.5	1.49	0.5	1000	0.085
		E	30	74.4	1.24	0.5	1010	0.051
C	SSJ I/L (from July. 18.)	Z	30	91.0	1.52	0.5	1060	0.108
		N	30	87.5	1.46	0.5	1050	0.103
		E	30	75.8	1.26	0.5	1070	0.056
		Z	30	87.7	1.46	0.5	1040	0.094
STRAIN/L (coupled)	N				0.70	65*		
	E				0.70	67*		
	N + E				0.70	42*		

\*) for apparent wave velocity  $\bar{v}$  km s<sup>-1</sup>

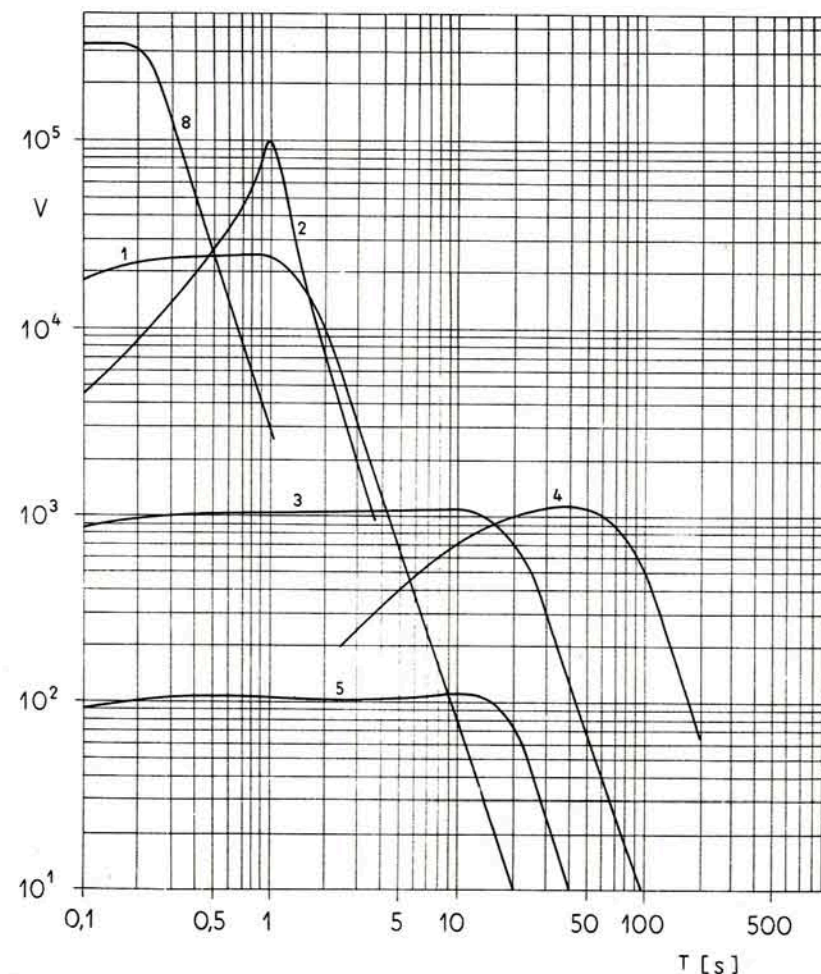


Fig. 1. Station Moxa, mean amplitude characteristics 1974

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





**Seismological Recordings at Station Moxa 1974**

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
1.	ePKHKP	A	06	07	14	<u>Tonga Islands</u> 20.07 S 174.25 W H = 05 47 27.6 h = normal MB = 4.6 D = 149.14 Az = 352.7 (NEIS)
1.	eP ePP	A A	08 13	09 54	56.5 5	<u>Mariana Islands Region</u> 21.63 N 142.85 E H = 07 57 04.5 h = 333 km MB = 5.0 D = 96.19 Az = 331.2 (NEIS) PPV A 1.7s 48.5nm M = 5.3
1.	ePKHKP	A	09	48	12.5	<u>Fiji Islands Region</u> 21.93 S 176.93 W H = 09 28 43.1 h = 194 km MB = 4.8 D = 150.57 Az = 348.9 (NEIS)
1.	ePKIKP iPKHKP iPKP2 pPKP pPKP2	A A A A A	13 02 02 04 04	02 13 25 03 20	06 5 5 5 5	<u>South of Fiji Islands</u> 23.70 S 179.92 E H = 12 43 16.1 h = 501 km MB = 5.0 D = 151.60 Az = 344.3 (NEIS) PKHKPV A 1.3s 39.3nm PKP2V A 1.4 60.5nm
1.	eP	A	14	03	57	<u>Burma-India Border Region</u> 23.9 N 94.1 E H = 13 51 33 h = 285 km MB = 4.1 D = 67.24 Az = 317 (ISC)
1.	eP e	A A	14 20	19 25	59.5 5	<u>Northern Sumatra</u> 4.63 N 95.90 E H = 14 07 40.1 h = 59 km MB = 5.4 D = 82.81 Az = 320.3 (NEIS) PV A 1.4s 18.6nm M = 4.9
2.	ePKIKP	A	00	21	03.5	<u>New Hebrides Islands</u> 14.60 S 167.35 E H = 00 01 53.5 h = 176 km MB = 5.0 D = 139.03 Az = 336.5 (NEIS) PKIKPV A 1.4s 18.6nm
2.	ePKP	A	05	14	18	<u>Samoa Region</u> 15.15 S 172.1 W H = 04 54 45.3 h = 33 km MB = 4.9 D = 144.46 Az = 356 (ISC)

January 1974

Moxa

Day	Phase	h m s	Remarks
2.	eP ABC	10 56 09	<u>Northern Chile</u> 22.54 S 68.40 W H = 10 42 29.9 h = 105 km MB = 6.4 D = 101.06 Az = 39.7 (NEIS) PV A 1.6s 110.0nm M = 6.2 LmH B 20 54.4/um LmV B 20 50.5/um
	e(sP) ABC	56 42	
	ePP ABC	11 00 17	
	eSKS BC	06 42	
	eS B	07 40	
	eSP B	09 10	
	ePPS B	10 16	
	iPKKP AB	12 48	
	eSS B	14 46	
	ePKPPKP A	20 40	
	LmH B	39.6	
	LmV B	39.8	
	2.	eP ABC	
epP A		54 45	
esP B		55 06	
2.	e(P) A	19 32 08	<u>Central Italy</u> 43.23 N 12.9 E H = 19 29 39 h = 0 km (ISC) D = 9.3
3.	eP A	04 06 11.5	<u>Mariana Islands</u> 20.54 N 145.05 E H = 03 52 50.4 h = 139 km MB = 5.1 D = 98.12 Az = 332.2 (NEIS)
3.	eP A	07 43 28	<u>Turkey</u> 39.74 N 26.82 E H = 07 39 48 h = 29 km MB = 4.2 D = 15.25 Az = 321 (ISC) PV A 1.1s 28.2nm M = 4.4
	LmH B	48.6	
	LmV B	50.0	
3.	ePKP A	11 34 54.5	<u>New Hebrides Islands</u> 14.56 S 166.35 E H = 11 15 24.0 h = 9 km MB = 5.5 D = 138.60 Az = 335.7 (NEIS) PKPV A 1.2s 20.3nm

18

January 1974

Moxa

Day	Phase	h m s	Remarks
3.	e A	22 28 07.5	
	e A	29 25	
	e A	29 53	
4.	eP A	09 36 17	<u>Kirgiz-Sinkiang Border Region</u> 40.61 N 77.65 E H = 09 27 55.7 h = 26 km MB=5.5 MS=4.8 D = 45.82 Az = 305.8 (NEIS) PV A 1.6s 38.5nm M = 5.1
	e A	36 26	
	LmH B	55.0	
	LmV B	56.7	
4.	ePKIKP A	19 01 25.5	<u>New Hebrides Islands</u> 14.84 S 166.53 E H = 18 41 56.3 h = 21 km MB = 5.3 D = 138.93 Az = 335.7 (NEIS)
5.	eP A	06 48 25	<u>Central Italy</u> 43.20 N 12.76 E H = 06 45 15.8 h = 0 km (ISC) D = 12.45
5.	eP A	07 34 05.5	<u>South Atlantic Ridge</u> 32.4 S 13.17 W H = 07 21 29.3 D = 85.56 Az = 16 (ISC)
5.	eP A	07 35 22	<u>Central Italy</u> 43.43 N 12.30 E H = 07 33 37.3 h = normal MB = 3.9 D = 7.23 Az = 356.5 (NEIS)
5.	iPKP A	08 22 37	<u>New Hebrides Islands</u> 20.03 S 170.14 E H = 08 03 01.3 h = normal MB = 5.0 D = 145.04 Az = 336.0 (NEIS) PKPV A 1.3s 32.8nm
5.	eP A	08 47 17.5	<u>Near Coast of Peru</u> 12.30 S 76.35 W H = 08 33 50.7 h = 98 km MB = 6.3 D = 98.11 Az = 40.0 (NEIS) PV A 1.6s 74.2nm M = 6.0 LmH B 21 4.2/um LmV B 16 2.2/um
	epP A	47 44	
	eS BC	58 40	
	LmH B	09 15.7	
	LmV B	36.4	

19

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
5.	eP	A	14	12	50.5	<u>Fox Islands, Aleutian Is.</u> 52.17 N 171.42 W H = 14 00 56.8 h = 41 km MB=5.4 MS=4.7 D = 77.53 Az = 358.0 (NEIS) PV A 0.9s 42.8nm M = 5.5
5.	eP	A	15	49	44	<u>Off Coast of Oregon</u> 42.63 N 126.42 W H = 15 37 33.7 h = normal MB=4.6 MS=4.7 D = 80.15 Az = 25.6 (NEIS)
5.	eP ePcP	A A	16	06	13.5 06 21.5	<u>Off Coast of Oregon</u> 42.48 N 126.60 W H = 15 54 03.3 h = normal MB=4.9 MS=5.1 D = 80.35 Az = 25.5 (NEIS) PV A 1.8s 60.8nm M = 5.3
5.	e(PKIKP)	A	22	02	55	<u>New Hebrides Islands</u> 14.66 S 166.64 E H = 21 43 19.1 h = 18 km MB = 5.1 D = 138.81 Az = 335.9 (NEIS)
5.	e	A	23	25	30	
5.	eP e	A A	23	41	29 41 36	<u>Off Coast of Oregon</u> 42.59 N 126.58 W H = 23 29 18.6 h = 22 km MB=5.0 MS=4.6 D = 80.25 Az = 25.5 (NEIS) PV A 1.6s 38.5nm M = 5.2
6.	ePKIKP	A	01	48	28	<u>Tonga Islands</u> 18.39 S 173.77 W H = 01 28 53.4 h = normal MB = 4.7 D = 147.53 Az = 353.6 (NEIS)
6.	ePKHKP	A	04	39	44	<u>Tonga Islands</u> 21.85 S 175.06 W H = 04 19 52.7 h = normal MB=5.0 MS=5.3 D = 150.78 Az = 351.3 (NEIS) PKHKPV A 2.0s 85.5nm
6.	eP LmV LmH	A B B	10	12	52 23.9 24.2	<u>North Atlantic Ocean</u> 57.52 N 33.77 W H = 10 07 12.6 h = normal MB=4.9 MS=4.7 D = 27.06 Az = 85.0 (NEIS) PV A 2.0s 77.0nm M = 5.0 LmV B 14 2.8/um 5.1

20

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
6.	eP	A	10	38	45.5	<u>North Atlantic Ocean</u> 57.73 N 33.57 W H = 10 33 06.1 h = normal MB=4.6 MS=4.3 D = 26.94 Az = 85.6 (NEIS) PV A 1.3s 26.2nm M = 4.7
6.	eP1 eP2	A A	14	42	22 42 26	<u>North of Ascension Island</u> 1.50 S 15.53 W H = 14 32 39.9 h = normal MB=5.3 MS=4.9 D = 56.89 Az = 20.3 (NEIS) P1V A 2.0s 51.3nm M = 5.2 P2V A 1.5 60.3nm 5.4
6.	ePKIKP	A	15	33	27.5	<u>Kermadec Islands</u> 30.38 S 177.80 W H = 15 13 31.9 h = 19 km D = 158.56 Az = 343.4 (NEIS)
6.	ePKIKP	A	17	58	50	<u>New Hebrides Islands</u> 14.86 S 167.24 E H = 17 39 44.1 h = 117 km MB = 5.6 D = 139.22 Az = 336.3 (NEIS) PKIKPV A 1.2s 12.2nm
7.	eP	A	04	08	22.5	<u>Philippine Islands Region</u> 19.13 N 121.08 E H = 03 55 39.4 h = 39 km MB=5.0 MS=5.2 D = 87.10 Az = 323.1 (NEIS)
7.	esP	A	05	29	53.5	<u>Burma-India Border Region</u> 23.52 N 94.81 E H = 05 18 24.3 h = 105 km MB = 4.9 (NEIS) D = 68.3
7.	eP ePcP	A A	08	37	58 38 22	<u>Southern Alaska</u> 59.81 N 153.72 W H = 08 27 03.5 h = 128 km MB = 4.9 D = 69.26 Az = 9.9 (NEIS) PV A 0.8s 13.5nm M = 4.8
7.	eP e	A A	15	31	03.5 31 11.5	<u>Western Iran</u> 33.30 N 47.92 E H = 15 24 38.2 h = 32 km MB = 5.0

21

January 1974

Moxa

Day	Phase	h m s	Remarks
cont. 7.	LmH C LmV C	15 43.3 46.3	D = 31.67 Az = 314.1 (NEIS) LmH C 24s 1.5/um M = 4.6 LmV C 18 1.3/um 4.8
7.	eP A e A LmH B LmV B	16 49 54 54 04 17 36.7 36.8	<u>Tucuman Province, Argentina</u> 26.89 S 65.70 W H = 16 35 57.8 h = 33 km MB = 5.8 D = 102.83 Az = 39.6 (NEIS) LmH B 18s 1.6/um M = 5.6 LmV B 18 1.6/um 5.6
7.	eSg A	16 55 42	<u>Austria</u> 47.5 N 14.9 E Explosion 9.75 t H = 16 53.7 (VIE) D = 3.82 Az = 327 (ISC)
8.	eP1 A eP2 A eSKS C eS BC ePS BC eSS BC LmV B LmH B	22 00 39 00 41 11 16 11 54 13 12 18 20 49.8 50.0	<u>Atlantic-Indian Rise</u> 38.95 S 46.18 E H = 21 47 21.7 h = normal MB=6.0 MS=6.1 D = 94.25 Az = 338.8 (NEIS) P1V A 2.0s 42.8nm M = 5.5 P2V A 3.0 224.0nm 6.1 LmH B 16.5 6.3/um 6.2 LmV B 16.5 6.6/um 6.2
9.	eP A LmV B LmH B	03 01 23 40.2 40.3	<u>Off East Coast of Kamchatka</u> 51.65 N 159.64 E H = 02 49 46.3 h = normal MB=5.4 MS=5.4 D = 74.54 Az = 339.5 (NEIS) PV A 1.3s 56.8nm M = 5.4 LmH B 15 1.9/um 5.5 LmV B 15 1.9/um 5.6
9.	eP A eS A	13 12 23 14 10	<u>Albania</u> 41.99 N 19.02 E H = 13 09 55.8 h = 54 km D = 10.05 Az = 332 (ISC)

22

January 1974

Moxa

Day	Phase	h m s	Remarks
9.	eP A	16 08 34	<u>Eastern Mediterranean Sea</u> 34.6 N 30.8 E H = 16 03 45 h = 0 km MB = 4.1 D = 21.24 Az = 325 (ISC) PV A 1.0s 11.8nm M = 4.2
9.	eP A	21 18 10.5	<u>Iran</u> 30.57 N 57.57 E H = 21 10 41.4 h = normal D = 39.47 Az = 314.0 (NEIS)
10.	ePKHKP A ePKP2 A	00 58 45.5 58 53.5	<u>South of Fiji Islands</u> 22.03 S 179.71 W H = 00 39 56.0 h = 546 km MB = 4.6 D = 150.09 Az = 345 (ISC) PKHKPV A 0.9s 19.5nm
10.	eP A LmV B LmH B	02 48 37.5 03 27.5 27.6	<u>Off East Coast of Kamchatka</u> 51.65 N 159.45 E H = 02 37 03.2 h = 41 km MB = 4.9 D = 74.49 Az = 339 (ISC) LmH B 16s 1.1/um M = 5.3 LmV B 16 1.4/um 5.4
10.	eP A LmV B LmH B	05 30 31 06 09.4 09.5	<u>Off East Coast of Kamchatka</u> 51.54 N 159.72 E H = 05 18 53 h = 24 km MB = 5.2 D = 74.66 Az = 340 (ISC) PV A 1.5s 30.2nm M = 5.1 LmH B 14 1.6/um 5.5 LmV B 15 2.0/um 5.6
10.	ePKHKP A ePKIKP A ePP ABC ePKKS B eSPP B e(SS) B eSSS B LmH B LmV B	09 10 29.5 10 33.5 13 27 23 24 25 32 32 12 37 20 10 13.7 20.1	<u>New Hebrides Islands</u> 14.43 S 166.86 E H = 08 51 13.3 h = 34 km MB=6.7 MS=7.2 D = 138.69 Az = 336.2 (NEIS) PKIKPV A 1.7s 24.4nm PKHKPV A 2.0 205.0nm LmH B 20 70.5/um M = 7.4 LmV B 18 58.2/um 7.4

23

January 1974

Moxa

Day	Phase	h m s	Remarks
10.	ePKIKP A	10 20 15	<u>New Hebrides Islands</u> 13.85 S 166.63 E H = 10 00 53.8 h = 66 km MB = 5.7 D = 138.07 Az = 336.3 (NEIS) PKIKPV A 1.8s 60.8nm
10.	eP A e A	11 56 19 57 22	<u>Sicily</u> 38.86 N 14.83 E H = 11 53 33 h = 337 km MB = 4.0 D = 12.00 Az = 350 (ISC)
10.	eP A	12 57 06	<u>Near East Coast of Honshu, Japan</u> 36.34 N 141.67 E H = 12 44 44.8 h = 47 km MB = 5.1 D = 82.86 Az = 330.6 (NEIS)
10.	epP A LmH B LmV B	16 25 57 17 06.6 06.8	<u>Kyushu, Japan</u> 31.79 N 131.70 E H = 16 13 25.8 h = 37 km MB=5.2 MS=5.1 D = 82.39 Az = 326.2 (NEIS) pPV A 1.2s 12.2nm LmH B 17 1.9/um M = 5.5 LmV B 16 2.2/um 5.7
10.	eP A e A LmH B LmV B	22 37 27 37 41 48.7 48.7	<u>North Atlantic Ocean</u> 57.33 N 33.57 W H = 22 31 47.8 h = normal MB=5.1 MS=4.6 D = 26.97 Az = 84.8 (NEIS) PV A 2.0s 111.0nm M = 5.1 LmH B 15 1.3/um 4.6 LmV B 14 2.0/um 5.0
11.	eP A	02 11 45	<u>Hindu Kush Region</u> 36.30 N 70.77 E H = 02 03 50.4 h = 159 km MB = 4.8 D = 44.09 Az = 308.2 (NEIS) PV A 1.4s 34.9 M = 4.8
11.	ePKIKP A ePKS A LmV B LmH B	05 55 57.5 59 34.5 06 59.1 59.6	<u>New Hebrides Islands</u> 14.16 S 166.59 E H = 05 36 30.8 h = 15 km MB=5.7 MS=6.2 D = 138.33 Az = 336.1 (NEIS) PKIKPV A 1.0s 27.6nm LmH B 22 7.2/um M = 6.3 LmV B 20 5.8/um 6.3

24

January 1974

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Day	Phase	h m s	Remarks
11.	eP A	09 34 02.5	<u>Off East Coast of Kamchatka</u> 51.68 N 159.49 E H = 09 22 25.5 h = normal MB = 4.6 D = 74.47 Az = 339.4 (NEIS)
11.	eP A	15 12 07	<u>South Atlantic Ridge</u> 26.36 S 13.23 W H = 15 00 01.2 h = normal MB = 4.8 D = 79.76 Az = 15.8 (NEIS)
11.	e A	21 18 32	<u>Aegean Sea</u> 40.14 N 24.46 E H = 21 15 06.1 h = 45 km MB = 3.8 D = 13.83 Az = 323.7 (NEIS)
12.	ePKP A	06 40 09	<u>Fiji Islands Region</u> 18.45 S 173.38 E H = 06 20 29.2 h = normal MB = 4.9 D = 144.74 Az = 339.8 (NEIS)
12.	ePb A	14 49 04	<u>Northern Italy</u> 44.15 N 10.19 E H = 14 47 04.4 h = 0 km D = 6.57 Az = 8 (ISC)
12.	eP A	20 12 43	<u>Panama</u> 9.95 N 78.74 W H = 20 00 21.6 h = 37 km MB=4.8 MS=4.0 D = 82.62 Az = 39.9 (NEIS)
13.	e A	13 40 16.5	
13.	ePKIKP A ePKS A	18 12 15 16 09.5	<u>New Hebrides Islands</u> 14.41 S 166.36 E H = 17 52 45.7 h = normal MB=5.0 MS=4.6 D = 138.47 Az = 335.8 (NEIS)
13.	eP A	21 41 37.5	<u>Central Mid-Atlantic Ridge</u> 3.66 N 31.57 W H = 21 31 39.4 h = normal MB=5.2 MS=4.8 D = 59.19 Az = 30.5 (NEIS) PV A 2.3s 110.0nm M = 5.6

25

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
14.	ePn	A	08	48	31	<u>Northern Italy</u> 44.8 N 8.7 E H = 08 46 53 h = 0 km D = 6.13 Az = 17 (ISC)
	e	A		48	48	
14.	eP	A	20	43	31	<u>Kurile Islands</u> 48.76 N 154.96 E H = 20 31 43.0 h = 14 km MB=5.5 MS=4.8 D = 76.10 Az = 336.9 (NEIS) PV A 1.6s 52.2nm M = 5.4
14.	e(pP)	A	21	37	08	<u>Off East Coast Kamchatka</u> 51.69 N 159.4 E H = 21 25 24 h = 55 km MB = 4.3 D = 74.44 Az = 339 (ISC)
14.	ePKP	A	23	51	53	<u>Solomon Islands</u> 9.64 S 161.16 E H = 23 32 10.6 h = 53 km MB = 5.6 (NEIS) D = 132.1
15.	ePKP2	A	08	52	34.5	<u>Kermadec Islands</u> 30.92 S 178.93 W H = 08 32 14.0 h = 114 km MB = 5.6 D = 158.78 Az = 341.2 (NEIS) PKP2V A 1.4s 55.8nm
	e	A		52	40	
15.	e(P)	A	17	37	55.5	<u>Southern Greece</u> 37.41 N 21.01 E H = 17 34 19.4 h = 38 km MB = 4.2 D = 14.84 Az = 336.1 (NEIS)
15.	eP	A	19	52	13	<u>Iceland</u> 64.76 N 17.11 W H = 19 47 34.3 h = normal MB = 4.7 D = 20.60 Az = 119.6 (NEIS) PV A 1.6s 44.0nm LmH B 17 1.3/um M = 4.4 LmV B 16 0.7/um 4.3
	LmH	B	20	01.3		
	LmV	B		01.4		
15.	ePg	A	20	12	41.5	<u>Switzerland</u> 47.07 N 7.16 E H = 20 11 13.3 h = normal D = 4.64 Az = 37.8 (NEIS)

26

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
15.	eP	A	23	01	20	<u>Szechwan Province, China</u> 32.91 N 104.20 E H = 22 50 29.9 h = normal MB=5.3 MS=5.7 D = 66.87 Az = 316.2 (NEIS) PV A 1.7s 42.4nm M = 5.3 LmH B 17.5 2.7/um 5.5 LmV B 14 1.6/um 5.4
	LmH	B		27.6		
	LmV	B		33.4		
16.	eP	A	05	04	55	<u>Taiwan</u> 23.46 N 121.43 E H = 04 52 30.7 h = 58 km MB = 5.1 D = 83.85 Az = 323.0 (NEIS) PV A 1.0s 19.7nm M = 5.1 LmH B 16 1.5/um LmV B 14.5 1.3/um
	LmH	B		47.3		
	LmV	B		47.3		
17.	eP	A	02	56	54.5	<u>Luzon, Philippine Islands</u> 16.80 N 119.96 E H = 02 44 09.0 h = 73 km MB = 5.1 D = 88.31 Az = 323 (ISC) PV A 2.0s 42.7nm M = 5.2
17.	eP	A	08	51	00.5	<u>Kurile Islands</u> 43.79 N 147.21 E H = 08 39 06.7 h = 77 km MB = 5.2 D = 78.32 Az = 332.9 (NEIS) PV A 1.1s 26.2nm M = 5.0
17.	ePP	A	13	10	39.5	<u>Bali Sea</u> 7.75 S 117.50 E H = 12 52 25.5 h = 257 km MB = 5.6 D = 106.02 Az = 320.4 (NEIS)
17.	e	A	15	39	53	
18.	ePKP2	A	07	13	00.5	<u>West of Macquarie Islands</u> 60.30 S 150.45 E H = 06 52 43.4 h = normal MB 5.7 MS=5.6 D = 155.15 Az = 265.7 (NEIS) PKP2V A 3.1s 156.0nm LmH B 16 1.7/um M = 5.9 LmV B 16 1.3/um 5.8
	LmH	B	08	35.5		
	LmV	B		37.3		

27

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
18.	e	A	14	46	48.5	<u>Turkey</u> 37.9 N 37.9 E H = 14 41 32 h = 28 km D = 22.59 Az = 313 (ISC)
18.	e	A	17	04	06.5	<u>Dominican Republic Region</u> 18.82 N 69.34 W H = 16 52 43.4 h = 82 km MB = 5.1 D = 70.00 Az = 42 (ISC) traces
18.	eP	A	21	27	43.5	<u>South Atlantic Ridge</u> 34.18 S 20.24 W H = 21 14 50.5 h = normal MB = 5.5 D = 89.02 Az = 19.6 (NEIS)
19.	ePn	A	02	51	16.5	<u>Switzerland</u> 46.66 N 7.43 E H = 02 49 50.3 h = normal D = 4.86 Az = 33.3 (NEIS) PV A 1.1s 28.2nm
19.	eP	A	09	05	26	<u>Fox Islands</u> 52.98 N 167.96 W H = 08 53 39.2 h = 52 km MB = 5.0 D = 76.75 Az = 0 (ISC) PV A 0.8s 15.4nm M = 5.0
20.	e(pPKP)	A	02	26	24	<u>New Britain Region</u> 5.33 S 151.54 E H = 02 07 17.9 h = 74 km MB = 5.1 D = 123.80 Az = 330.4 (NEIS)
20.	ePKHKP	A	05	32	32.5	<u>New Hebrides Islands</u> 14.36 S 166.96 E H = 05 13 14.8 h = normal MB=5.6 MS=4.9 D = 138.66 Az = 336.3 (NEIS)
	ePKIKP	A		32	36	
	ePP	A		35	35	
	ePKS	A		36	12	
20.	ePKIKP	A	06	13	27	<u>Fiji Region</u> 21.9 S 178.4 W H = 05 53 40.9 h = 0 km D = 150.26 Az = 347 (ISC)

28

Januar 1974

Moxa

Day	Phase	h	m	s	Remarks	
20.	eP	A	20	16	12.5	<u>India-East Pakistan Border Region</u> 22.84 N 92.94 E H = 20 05 18.7 h = normal MB = 4.8 D = 67.28 Az = 317.0 (NEIS) PV A 1.2s 16.3nm M = 3.9
21.	eP	A	00	17	25	<u>Dodecanese Islands</u> 36.18 N 28.03 E H = 00 13 08.5 h = 77 km MB = 3.8 (ISC) D = 18.7
21.	eP	A	00	55	13	<u>Off W. Coast of Northern Sumatra</u> 0.55 N 96.59 E H = 00 42 32.3 h = normal MB = 5.2 D = 86.38 Az = 320.5 (NEIS)
21.	eP	A	03	56	26	<u>Sicily</u> 37.68 N 15.11 E H = 03 53 18.8 h = 0 km D = 13.20 Az = 350 (ISC)
21.	ePKHKP	A	07	16	28.5	<u>Tonga Islands</u> 18.41 S 173.87 W H = 06 56 46.5 h = 45 km MB = 4.8 D = 147.54 Az = 353.5 (NEIS)
21.	ePb	A	10	06	50	<u>Yugoslavia</u> 44.9 N 16.0 E H = 10 04 54 h = 0 km D = 6.49 Az = 335
21.	eP	A	14	21	54	<u>Unimak Island Region</u> 53.91 N 163.67 W H = 14 10 10.4 h = normal MB = 4.2 D = 75.75 Az = 3.1 (NEIS)
21.	eP	A	20	14	49	<u>Sicily</u> 38.94 N 15.41 E H = 20 11 57.6 h = 133 km MB = 3.8 D = 12.01 Az = 348.3 (NEIS)
21.	eP	A	20	46	50	<u>North of Ascension Island</u> 0.12 N 17.33 W H = 20 37 12.1 h = normal MB = 4.7 D = 56.03 Az = 21.8 (NEIS)

29



January 1974

Moxa

Day	Phase	h	m	s	Remarks	
22.	eP	A	06	16	02	<u>Tadzhik SSR</u> 40.06 N 71.76 E H = 06 08 09.3 h = 50 km MB = 5.0 D = 42.47 Az = 305.1 (NEIS)
22.	e	A	08	55	31.5	
22.	+iP	ABC	13	39	40	<u>Near East Coast of Kamchatka</u>
	ePS	C	49	24		55.20 N 162.14 E
	eSKS	BC	49	50		H = 13 28 20.0 h = normal MB=5.7 MS=5.5
	eSS	C	54	20		D = 71.69 Az = 340.7 (NEIS)
	LmV	B	14	11.1		PV A 1.2s 148.3nm M = 5.9
	LmH	B	11.3			LmH B 22 5.8/um 5.8 LmV B 22 4.7/um 5.8
22.	e(P)	A	23	18	03	<u>Ryukyu Islands Region</u> 24.87 N 127.05 E H = 23 05 31.7 h = 128 km MB = 4.7 D = 85.75 Az = 324.8 (NEIS)
23.	ePKIKP	A	14	10	05.5	<u>South of Fiji Islands</u> 22.92 S 179.10 W
	ePKHKP	AB	10	12		H = 13 51 08.8 h = 449 km MB = 5.4
	ePKP2	A	10	20.5		D = 151.09 Az = 345.8 (NEIS)
	ePKS	A	13	50		PKIKPV A 1.3s 26.2nm PKHKPV A 1.1 197.5nm PKP2V A 1.2 158.5nm
23.	ePKHKP	A	16	08	12.5	<u>Fiji Islands Region</u> 21.61 S 176.56 W H = 15 48 43.1 h = 191 km MB = 4.8 D = 150.32 Az = 349.5 (NEIS) PKHKPV A 1.6s 24.7nm
23.	ePKP	A	16	18	41	<u>Fiji Islands Region</u> 17.93 S 178.22 W H = 15 59 58.9 h = 539 km MB = 4.6 D = 146.42 Az = 348.7 (NEIS) PKPV A 1.7s 24.2nm
24.	eP	A	00	54	38	<u>Sicily</u> 37.9 N 14.9 E H = 00 51 31 h = 0 km D = 12.98 Az = 351 (ISC)

30

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
24.	eP	A	09	43	34.5	<u>Greece</u> 38.23 N 20.23 E
	LmH	B	48.5			H = 09 40 17.5 h = 56 km MB = 4.5
	LmV	B	49.5			D = 13.84 Az = 337 (ISC) PV A 1.0s 21.7nm M = 4.8 LmH B 15 1.8/um
24.	e	A	11	13	24.5	<u>Volcano Islands Region</u> 23.91 N 142.48 E H = 10 59 53.7 h = normal MB = 5.2 D = 94.04 Az = 331.1 (NEIS) traces
24.	+iP	A	13	21	55.8	<u>Tyrrhenian Sea</u> 39.81 N 14.59 E H = 13 19 23.2 h = 358 km MB = 4.6 D = 11.04 Az = 350.1 (NEIS) PV A 1.0s 27.6nm M = 4.6
24.	e(Pn)	A	18	23	20	Probably <u>Czechoslovakia</u>
	e(Sg)	A	23	40.5		
24.	eP	A	18	54	17	<u>Southern Alaska</u> 61.59 N 147.63 W
	epP	A	54	27		H = 18 43 26.8 h = 40 km MB = 4.8 D = 66.89 Az = 14.2 (NEIS) h = 38 km
24.	+eiP	AB	19	24	50.5	<u>Hokkaido, Japan Region</u>
	e	A	25	03		42.13 N 143.91 E
	eS	BC	34	40		H = 19 12 52.1 h = 45 km MB=5.9 MS=6.1
	eSS	C	40	45		D = 78.66 Az = 331.3 (NEIS)
	LmH	B	20	03.1		PV A 1.6s 302.0nm M = 6.1
	LmV	B	03.1			PV B 5 2.42/um 6.5 LmH B 18.5 31.6/um 6.7 LmV B 18.5 35.5/um 6.8
24.	eP	A	23	50	09	<u>Hokkaido, Japan Region</u>
	epP	A	50	23		41.93 N 143.95 E H = 23 38 08.5 h = 41 km MB = 5.2 D = 78.85 Az = 331.3 (NEIS) h = 50 km

31

January 1974

Moxa

Day	Phase	h	m	s	Remarks
cont. 24.	LmH	B	24	28.5	PV A 1.5s 27.6nm M = 5.0
	LmV	B		28.5	LmH B 18 0.9/um 5.2 LmV B 18 1.3/um 5.3
25.	eP	A	00	45 41	<u>Central Italy</u> 42.85 N 13.21 E H = 00 43 40.4 h = normal D = 7.87 Az = 352.6 (NEIS)
25.	eP	A	10	16 30	<u>Hokkaido, Japan Region</u> 41.80 N 144.02 E H = 10 04 28.1 h = 41 km MB = 5.0 D = 78.99 Az = 331.4 (NEIS)
	LmH	B		54.7	LmH B 18s 1.8/um M = 5.4
	LmV	B		55.0	LmV B 18 1.7/um 5.4
25.	ePKHKP	A	14	30 19	<u>Fiji Islands Region</u> 20.00 S 178.05 W H = 14 11 37.9 h = 606 km MB = 4.7 D = 148.48 Az = 348.2 (NEIS) PKHKPV A 1.0s 23.6nm
25.	eP	A	20	41 41	<u>Mariana Islands</u> 18.92 N 145.49 E H = 20 28 13.0 h = 141 km MB = 5.9 D = 99.74 Az = 332.2 (NEIS)
	e	A		42 09	PV A 1.5s 35.2nm M = 5.7
	e	A		45 18	PPV A 2.0 308.0nm 6.4
	e	A		45 32	LmH B 19 3.7/um
	ePP	AB		45 47	LmV B 16 2.5/um
	epPP	B		46 30	
	eSKS	B		52 00	
	eS	B		53 00	
	e	B		55 25	
	LmH	B	21	24.7	
	LmV	B		30.0	
25.	iPKP	AB	22	59 57.3	<u>Samoa Islands Region</u> 16.43 S 172.53 W H = 22 40 16.1 h = 10 km MB = 5.2 MS = 5.0 D = 145.71 Az = 355.3 (NEIS) PKPV A 1.5s 125.5nm

32

January 1974

Moxa

Day	Phase	h	m	s	Remarks
26.	eP	A	03	23 12	<u>Fox Islands, Aleutian Is.</u> 52.30 N 171.40 W H = 03 11 20.9 h = 54 km MB = 5.3 D = 77.40 Az = 358.0 (NEIS)
26.	eP	A	05	23 33.5	<u>Turkey</u> 37.40 N 29.76 E H = 05 19 16.6 h = 25 km MB = 4.4 D = 18.52 Az = 321.4 (NEIS)
	e	A		23 40.5	
26.	eP	ABC	05	48 39	<u>Near Coast of Michoacan, Mexico</u> 18.60 N 103.40 W H = 05 35 33.6 h = normal MB = 5.1 MS = 6.1 D = 90.63 Az = 35.2 (NEIS)
	e	A		48 48	PV A 1.6s 24.7nm M = 5.3
	ePP	BC		52 17	PV B 10 1.1/um 6.2
	eSKS	BC		59 15	LmH B 18.5 8.3/um 6.2
	eiSP	BC	06	00 56	LmV B 15.5 7.7/um 6.3
	eiSS	C		05 56	
	LmH	B		32.0	
	LmV	B		34.7	
27.	eP	A	07	19 00	<u>Mariana Islands Region</u> 21.06 N 144.53 E H = 07 05 41.6 h = 148 km MB = 5.3 D = 97.44 Az = 331.9 (NEIS)
27.	eP	A	08	57 14.5	<u>North Atlantic Ridge</u> 33.81 N 38.56 W H = 08 49 41.2 h = normal MB = 5.1 MS = 5.3 D = 39.95 Az = 49.6 (NEIS)
	eS	BC	09	03 30	PV A 1.7s 36.4nm M = 4.8
	LmH	C		09.3	LmH C 28 5.1/um 5.2
	LmV	B		11.2	LmV B 18 4.1/um 5.4
27.	eP	A	21	10 31	<u>Crete</u> 35.16 N 25.42 E H = 21 06 20.4 h = 66 km MB = 4.5 D = 18.44 Az = 331.3 (NEIS)
28.	eP	A	03	42 42.5	<u>Algeria</u> 36.07 N 4.50 E H = 03 39 03.6 h = normal MB = 4.8 MS = 4.6 D = 15.46 Az = 17.2 (NEIS)
	e	A		42 46.5	LmH C 18.5s 1.6/um M = 4.2
	LmH	C		48.0	

33

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
28.	ePKP2	A	06	23	09.5	<u>South of Fiji Islands</u> 24.28 S 178.74 E H = 06 04 19.2 h = 585 km MB = 4.9 D = 151.85 Az = 342.5 (NEIS) PKP2V A 1.2s 16.3nm pPKPV A 1.0 11.8nm
	e	A	23	20.5		
	epPKP	A	25	22		
28.	e	A	20	00	34	<u>Central Italy</u> 43.87 N 10.74 E H = 19 57 24.3 h = 6 km (ISC) D = 6.8
29.	e(P)	A	04	25	16	<u>Near East Coast of Kamchatka</u> 55.36 N 161.94 E H = 04 13 51.2 h = 0 km MB = 4.5 D = 71.51 Az = 341 (ISC)
29.	eP	A	13	37	08.5	<u>Sicily</u> 37.7 N 15.05 E H = 13 34 02 h = 21 km D = 13.19 Az = 350 (ISC) LmH C 18s 1.6/um M = 4.1
	LmH	C		41.0		
29.	e(PKP2)	A	14	59	14.5	<u>Tonga Islands</u> 20.35 S 173.77 W H = 14 39 15.0 h = normal MB=4.8 MS=5.0 D = 149.47 Az = 353.2 (NEIS) (PKP2)V A 1.8s 37.2nm
29.	eP	A	15	16	09	<u>Greece</u> 38.39 N 21.80 E H = 15 12 44.9 h = 31 km MB = 4.4 D = 14.22 Az = 332.7 (NEIS) XV A 1.2s 12.2nm
	eX	A		16	11	
29.	ePKP	A	19	15	32.5	<u>Banda Sea</u> 7.42 S 128.58 E H = 18 57 13.1 h = 154 km MB = 5.7 D = 112.66 Az = 322.1 (NEIS) PKPV A 1.0s 21.7nm
	e	A		16	18	
29.	ePKP	A	22	55	45	<u>Banda Sea</u> 7.26 S 128.54 E H = 22 37 24.6 h = 154 km MB = 5.4 D = 112.51 Az = 322.1 (NEIS)
	e	A		56	08	
	e	A		56	29.5	

34

January 1974

Moxa

Day	Phase	h	m	s	Remarks	
30.	eP1	A	05	04	46.5	<u>Eastern Kazakh SSR</u> 49.84 N 78.08 E H = 04 57 02.1 h = 0 km MB = 5.4 D = 41.21 Az = 297.6 (NEIS) Underground explosion MB = 6.0 (UPP) P2V A 0.8s 127.0nm M = 5.7 P2nV A 0.9 21.4nm
	+iP2	A	04	50.8		
	eP2n	A	06	23		
30.	ePKIKP	A	10	11	50	<u>Aroe Islands Region</u> 5.16 S 134.07 E H = 09 53 12.0 h = normal MB=5.9 MS=6.3 D = 114.15 Az = 323.9 (NEIS) PKIKPV A 1.5s 25.2nm LmH B 18 8.3/um M = 6.4 LmV B 18 8.0/um 6.4
	e	A		12	40	
	ePP	AC		12	47	
	e	A		12	52	
	ePS	C		22	16	
	ePPS	C		23	28	
	eSS	C		28	40	
	LmV	B	11	06.5		
LmH	B		06.7			
30.	e	A	22	59	32	<u>Hungary</u> 47.2 N 18.7 E H = 22 56 46 h = 0 km (ISC) D = 5.8
31.	eP	AB	07	16	18	<u>Kyushu, Japan</u> 31.84 N 131.64 E H = 07 03 58.1 h = 37 km MB=5.6 MS=5.4 D = 82.32 Az = 326.2 (NEIS) PV A 2.0s 172.0nm M = 5.8 LmH B 16.5 17.1/um 6.5 LmV B 16 21.6/um 6.7
	e	A		16	30	
	ePS	C		26	44	
	eSS	C		32	30	
	LmV	B		57.0		
LmH	B		57.2			
31.	ePKP	A	15	29	04	<u>Fiji Islands Region</u> 17.76 S 178.67 W H = 15 10 29.1 h = 584 km MB = 5.3 D = 146.18 Az = 348.2 (NEIS)
	e	A		29	07	
31.	+eiP	AB	20	07	19	<u>Fox Islands, Aleutian Is.</u> 52.36 N 168.74 W H = 19 55 26.2 h = 36 km MB=5.6 MS=5.0 D = 77.37 Az = 359.8 (NEIS) PV A 1.3s 178.0nm M = 5.9

35

January 1974

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Day	Phase	h m s	Remarks
31.	eP A	20 27 47.5	<u>Fox Islands, Aleutian Is.</u> 52.25 N 168.78 W H = 20 15 54.6 h = 44 km MB = 4.8 D = 77.49 Az = 359.7 (NEIS) PV A 1.0s 25.6nm M = 5.2
31.	ePKIKP A LmH B LmV B	20 35 24 21 23.0 36.0	<u>Solomon Islands</u> 7.50 S 155.98 E H = 20 16 22.5 h = 62 km MB = 5.3 D = 127.81 Az = 332.0 (NEIS) LmH B 25s 3.3/um
31.	ePKIKP AB eX A ePP B eSS B e B LmH B LmV B	23 49 09 49 25 51 15 24 08 30 11 48 50.7 50.9	<u>Solomon Islands</u> 7.46 S 155.89 E H = 23 30 05.3 h = 34 km MB=6.0 MS=7.0 D = 127.74 Az = 332.0 (NEIS) PKIKPV A 1.6s 88.0nm XV A 2.0 274.0nm LmH B 18 41.3/um M = 7.2 LmV B 18 49.5/um 7.2
31.	ePKPKP A	23 57 08	<u>Solomon Islands</u> 7.00 S 155.78 E H = 23 38 03.9 h = 33 km MB = 5.8 D = 127.28 Az = 332 (ISC)

February 1974

Moxa

Day	Phase	h m s	Remarks
1.	e A	00 02 26.5	
1.	eP A i A i A ei AB	00 04 50 04 56 05 00 05 07	<u>Turkey</u> 38.55 N 27.02 E H = 00 01 02.4 h = 29 km MB = 5.2 D = 16.28 Az = 322.9 (NEIS)
1.	ePKIKP A	01 23 16	<u>Solomon Islands</u> 7.31 S 155.90 E H = 01 04 14.5 h = 49 km MB = 5.2 D = 127.61 Az = 332.0 (NEIS) PKIKPV A 1.3s 26.2nm
1.	ePKIKP A eiX AB +eiPP B ePPS B eSS B LmH B LmV B	03 31 36 31 46 33 44 45 55 51 30 04 16.0 31.5	<u>Solomon Islands</u> 7.38 S 155.58 E H = 03 12 33.1 h = 40 km MB=6.2 MS=7.1 D = 127.52 Az = 331.8 (NEIS) PKIKPV A 1.5s 37.7nm XV A 2.0 47.9nm PPV B 11 5.6/um M = 6.7 LmH B 30 133.3/um 7.4 LmV B 20 55.8/um 7.2
1.	ePKIKP A	04 38 24	<u>Solomon Islands</u> 7.22 S 155.97 E H = 04 19 20.6 h = normal MB = 5.0 D = 127.56 Az = 332.1 (NEIS)
1.	ePKIKP A	05 31 16	<u>Solomon Islands</u> 7.17 S 155.62 E H = 05 12 13.9 h = normal MB = 5.0 D = 127.35 Az = 331.9 (NEIS)
1.	ePKP A	05 33 33.5	<u>Tonga</u> 17.12 S 175.08 W H = 05 14 23.0 h = 266 km MB = 4.7 D = 146.13 Az = 352 (ISC)
1.	e(P) A	05 54 43	
1.	ePKIKP A	07 21 22	<u>Solomon Islands</u> 7.59 S 156.03 E H = 07 02 14.3 h = normal MB=5.4 MS=5.6 D = 127.91 Az = 332.0 (NEIS)

February 1974

Moxa

Day	Phase	h m s	Remarks
1.	e A	08 31 23	<u>Solomon Islands</u> 7.23 S 155.23 E H = 08 12 18.9 h = 83 km MB = 5.5 D = 127.23 Az = 322 (ISC)
1.	ePKIKP A e A	08 35 11.5 35 20	<u>Solomon Islands</u> 7.77 S 155.60 E H = 08 16 09.9 h = normal MB = 5.3 D = 127.87 Az = 331.7 (NEIS)
1.	-ePKIKP A	09 27 26.5	<u>Solomon Islands</u> 7.21 S 155.79 E H = 09 08 24.5 h = 48 km MB = 5.3 D = 127.46 Az = 332.0 (NEIS) PKIKPV A 1.5s 47.7nm
1.	ePKIKP A	11 07 51	<u>Solomon Islands</u> 7.28 S 155.92 E H = 10 48 47.6 h = normal MB = 5.3 D = 127.59 Az = 332.0 (NEIS)
1.	eP A	12 14 04.5	<u>Southern Sumatra</u> 4.63 S 103.42 E H = 12 00 57.1 h = 136 km MB = 5.2 D = 94.69 Az = 320.3 (NEIS) PV A 1.2s 16.3nm M = 5.2
1.	+eP A e A e A LmH C	15 16 13.5 16 22 16 28 16 26.0	<u>Near East Coast of Kamchatka</u> 54.42N 162.19E H = 15 04 48.9 h = 30 km MB=5.1 MS=5.4 D = 72.44 Az = 340.8 (NEIS) PV A 1.8s 74.4nm M = 5.4 LmH C 30 1.4/um 5.1
1.	eSg A	19 56 26	<u>Northern Italy</u> 47.0 N 10.88 E H = 19 54 31.2 h = 0 km D = 3.69 Az = 7 (ISC)
1.	ePKIKP A	23 35 59	<u>Solomon Islands</u> 7.24 S 155.43 E H = 23 16 55.2 h = 47 km MB = 5.4 D = 127.33 Az = 331.8 (NEIS) traces

38

February 1974

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Day	Phase	h m s	Remarks
2.	eP A LmH C LmV C	03 44 27 54.0 57.0	<u>Azores Islands Region</u> 35.63 N 34.54 W H = 03 37 25.0 h = normal MB = 4.9 D = 36.25 Az = 51.0 (NEIS) PV A 1.6s 32.9nm M = 5.0 LmH C 24 0.7/um 4.3 LmV C 17 1.1/um 4.8
2.	+iPKP AB e A	08 46 43 47 37	<u>New Hebrides Islands</u> 19.10 S 169.49 E H = 08 27 40.2 h = 269 km MB = 5.6 D = 143.96 Az = 336.0 (NEIS) PKPV A 1.1s 117.0nm
2.	ePKP A LmH B LmV B	12 03 30 48.7 56.4	<u>Aroe Islands Region</u> 5.02 S 134.01 E H = 11 44 52.9 h = normal MB=5.6 MS=5.8 D = 114.01 Az = 323.9 (NEIS) LmH B 18s 4.6/um M = 6.1 LmV B 18 2.2/um 5.8
2.	ePKP A	12 38 05	<u>Tonga Islands</u> 17.42 S 174.06 W H = 12 18 30.0 h = 73 km MB = 5.1 D = 146.54 Az = 353.4 (NEIS)
2.	eiP AB eipP A LmH C LmV C	16 06 17 16 28 37.0 51.3	<u>Southern Alaska</u> 61.60 N 147.60 W H = 15 55 28.3 h = 48 km MB=5.1 MS=4.7 D = 66.88 Az = 14.2 (NEIS) h = 44 km PV A 1.5s 50.2nm LmH C 37.5 4.6/um M = 5.3 LmV C 21 1.9/um 5.4
2.	e A	16 34 39	
2.	eP A eP A ePP A epPP A LmV B LmH B	20 09 42 09 53 13 45.5 13 55 21 02.0 05.0	<u>Sunda Strait</u> 6.22 S 104.26 E H = 19 56 11.4 h = normal MB=5.2 MS=5.6 D = 96.44 Az = 320.2 (NEIS) h = 43 km PV A 1.5s 45.2nm M = 5.7 PPV A 1.5 32.6nm 5.6 LmH B 20 2.2/um 5.7 LmV B 16 1.3/um 5.5

39

February 1974

Moxa

Day	Phase	h m s	Remarks
3.	eP	A 06 36 22.5	<u>Arabian Sea</u> 14.50 N 56.09 E H = 06 27 23.2 h = normal MB = 4.8 D = 50.82 Az = 324.9 (NEIS)
3.	eP	A 09 03 12.5	<u>Arabian Sea</u> 14.52 N 55.74 E H = 08 54 09.1 h = normal MB = 5.0 D = 50.60 Az = 325.0 (NEIS) (P)V A 1.0s 15.7nm M = 5.0
3.	-iP	A 10 21 31	<u>Luzon, Philippine Islands</u>
	epP	AB 21 41	18.91 N 120.07 E
	esP	A 21 46	H = 10 08 48.4 h = 30 km MB=5.9 MS=5.2
	e	A 22 03.5	D = 86.70 Az = 322.8 (NEIS)
	ePP	A 25 00	h = 39 km
	eSKS	B 31 50	PV A 1.6s 82.6nm M = 5.7
	ePS	B 33 00	LmH B 15 4.5/um 6.0
	eSS	C 37 50	LmV B 13.5 4.5/um 6.1
	LmH	B 11 04.6	
	LmV	B 06.3	
3.	ePKIKP	A 16 32 02.5	<u>Solomon Islands</u> 7.33 S 155.50 E H = 16 12 56.7 h = 43 km MB=5.4 MS=5.6 D = 127.44 Az = 331.8 (NEIS)
	LmH	B 17 29.6	PKIKPV A 2.0s 51.2nm
	LmV	B 33.4	LmH B 18 1.4/um M = 5.7 LmV B 18 1.3/um 5.6
3.	ePKP	A 19 04 24	<u>Aroe Islands Region</u> 5.13 S 133.85 E H = 18 45 45.7 h = normal MB=5.7 MS=5.2 D = 114.00 Az = 323.9 (NEIS)
	LmH	B 49.6	LmH B 18s 1.4/um M = 5.6
	LmV	C 57.5	LmV B 20 1.1/um 5.4
4.	eP	A 03 35 23	<u>Hokkaido, Japan Region</u> 43.67 N 140.82 E H = 03 23 54.9 h = 218 km MB = 4.7 D = 76.20 Az = 329.5 (NEIS)

February 1974

Moxa

Day	Phase	h m s	Remarks
4.	ePn	A 14 03 03.5	<u>Austria</u> 47.63 N 14.05 E H = 14 02 08.4 h = 5 km D = 3.42 Az = 333 (ISC)
4.	ePKIKP	AB 20 29 45	<u>Solomon Islands</u> 7.30 S 155.83 E
	e	A 29 49	H = 20 10 42.0 h = 55 km MB = 5.4
	e	A 29 53	D = 127.56 Az = 332.0 (NEIS)
	ePP	BC 31 40	PKIKPV A 1.5s 35.2nm
	ePKS	BC 33 00	LmH B 22 5.4/um M = 6.2
	e(PPP)	C 34 40	LmV B 19 5.3/um 6.2
	ePS	C 41 44	
	ePPS	C 43 25	
	eSS	C 48 32	
	LmH	B 21 17.3	
	LmV	B 30.0	
4.	e	A 21 44 07	<u>Solomon Islands</u> 7.26 S 155.94 E H = 21 24 56.4 h = 53 km MB = 5.0 D = 127.58 Az = 332.1 (NEIS) traces
4.	eP	A 23 18 06.5	<u>Tyrrhenian Sea</u> 39.3 N 12.7 E H = 23 15 20 h = 0 km D = 11.37 Az = 356 (ISC)
4.	e	A 24 03 56	<u>Solomon Islands</u> 7.33 S 155.74 E H = 23 44 44.6 h = 52 km MB = 5.2 D = 127.56 Az = 331.9 (NEIS)
5.	e(P)	A 02 31 00.5	<u>Turkey</u> 39.79 N 26.79 E H = 02 27 16.7 h = 0 km D = 15.21 Az = 321 (ISC)
5.	epP	A 02 36 19.5	<u>Central Alaska</u> 62.70 N 148.85 W H = 02 25 22.0 h = 75 km MB = 5.0 (NEIS) D = 66.0 PV A 0.7s 19.2nm

February 1974

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Day	Phase	h	m	s	Remarks	
5.	eP	A	06	45	39	<u>Algeria</u> 35.98 N 4.39 E H = 06 41 59.5 h = normal MB = 4.4 D = 15.56 Az = 17.4 (NEIS)
5.	eP	AB	15	09	22	<u>Dodecanese Islands</u> 36.82 N 27.02 E H = 15 05 24.2 h = 153 km MB = 4.8 D = 17.69 Az = 326.2 (NEIS) PV A 1.9s 121.1nm M = 4.9
5.	e	A	15	27	23	<u>Poland</u> 50.6 N 19.5 E H = 15 25 52 h = 0 km D = 5.02 Az = 274 (ISC)
5.	eP	A	18	27	43	<u>Turkey</u> 37.31 N 29.58 E H = 18 23 26.2 h = 39 km MB = 4.4 D = 18.51 Az = 321.8 (NEIS) PV A 1.5s 38.7nm M = 4.4
5.	ePKP LmH	A C	22	47	01.5 23 40.0	<u>Fiji Islands Region</u> 16.18 S 177.75 W H = 22 27 26.3 h = 62 km MB = 5.0 D = 144.80 Az = 349.6 (NEIS) PKPV A 1.4s 16.3nm
6.	eP	A	03	02	56	<u>Off East Coast of Kamchatka</u> 52.67 N 160.35 E H = 02 51 22.1 h = normal MB = 4.7 D = 73.73 Az = 339.9 (NEIS)
6.	-iP1 -iP2 iP3 ePP ePPP eS ePS ePPS eSS eSSS	AB A A C C BC C C C C	04	15	57.3 16 00 16 06 18 58 20 30 25 40 26 25 26 50 30 48 33 50	<u>Unimak Island Region</u> 53.80 N 164.67 W H = 04 04 07.2 h = 2 km MB=5.9 MS=6.5 D = 75.88 Az = 2.4 (NEIS) P1V A 1.3s 183.5nm M = 5.9 P1V B 8 5.2/um 6.6 P2V A 1.8 337.8nm 6.1 P3V A 1.9 447.0nm 6.2 LmH B 18 16.7/um 6.4 LmV B 17 13.4/um 6.4

42

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
6.	iP LmH	A C	17	34	09.2 18 07.0	<u>Afghanistan-USSR Border Region</u> 36.52 N 71.42 E H = 17 26 16.5 h = 193 km MB = 4.9 D = 44.37 Az = 308.1 (NEIS) LmH C 20s 1.0/um
7.	eP	A	01	30	18	<u>South Atlantic Ridge</u> 12.35 S 14.78 W H = 01 19 26.9 h = normal MB = 4.7 D = 66.83 Az = 17.9 (NEIS) PV A 1.9s 45.5nm M = 5.2
7.	ePKP	A	08	03	49	<u>Tonga Islands</u> 19.05 S 174.14 W H = 07 44 05.1 h = normal MB = 4.8 D = 148.15 Az = 353.0 (NEIS)
7.	e(P)	A	08	50	33	<u>Turkey</u> 39.70 W 26.88 E H = 08 46 51.9 h = 37 km MB = 4.2 D = 15.31 Az = 321 (ISC)
7.	LmH LmV	B B	10	44.6	54.5	<u>West Irian Region</u> 3.79 S 134.01 E H = 09 41 48 h = 10 km MB = 5.8 (ISC) D = 113.0 LmH B 17s 1.9/um M = 5.7
7.	i(P) LmH LmV	A B B	19	15	51.3 53.4 54.8	<u>Kurile Islands</u> 49.86 N 156.56 E H = 19 04 07.0 h = 49 km M = 4.9 D = 75.49 Az = 338 (ISC) LmH B 18s 0.7/um M = 5.0
7.	e e	A A	20	25	52 26 00	
8.	ePKHKP ePKP2	A A	00	53	24 53 39	<u>Tonga Islands</u> 20.34 S 173.81 W H = 00 33 35.9 h = 37 km MB = 4.9 D = 149.46 Az = 353.2 (NEIS)
8.	e	A	03	18	28	<u>Mid-Indian Rise</u> 9.22 S 66.03 E H = 03 06 29.5 h = 33 km MB = 4.5 D = 76.41 Az = 327 (ISC)

43

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
8.	+iP	A	14	33	08.0	<u>Komandorsky Islands Region</u> 54.40 N 167.60 E H = 14 21 37.4 h = normal MB=5.4 MS=5.0 D = 73.41 Az = 344.3 (NEIS) PV A 0.8s 53.8nm M = 5.6 LmH B 17 0.9 $\mu$ m 5.1 LmV B 16 0.8 $\mu$ m 5.1
	e	A		33	16.5	
	ePcP	A		33	26	
	LmH	B	15	10.7		
	LmV	B		11.8		
8.	ePKP	A	18	44	10	<u>Loyalty Islands Region</u> 21.38 S 170.10 E H = 18 24 32.2 h = normal MB=5.4 MS=5.8 D = 146.25 Az = 335.1 (NEIS) PKPV A 1.3s 15.3nm LmH C 38 2.1 $\mu$ m M = 5.6
	LmH	C	19	32.8		
8.	e	A	20	14(15)		<u>France</u> 44.22 N 6.54 E H = 20 12 17.7 h = 33 km D = 7.29 Az = 26 (ISC)
	e	A		14	35	
9.	e	A	03	27	43	
9.	ePKP	A	03	56	25	<u>Tonga Islands Region</u> 18.07 S 172.83 W H = 03 36 42.1 h = normal MB = 4.6 D = 147.31 Az = 354.8 (NEIS) PKPV A 1.2s 14.3nm
9.	eP	A	08	41	04.5	<u>Luzon, Philippine Islands</u> 15.93 N 119.77 E H = 08 28 15.3 h = 65 km MB = 5.2 D = 88.88 Az = 322.8 (NEIS) PV A 1.2s 18.3nm M = 5.2
9.	eP	A	18	33	51	<u>Kurile Islands</u> 50.61 N 157.24 E H = 18 22 14.8 h = 57 km MB = 4.9 D = 74.95 Az = 338.1 (NEIS)

44

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
10.	eP	A	09	03	56	<u>Southern Honshu, Japan</u> 35.11 N 136.92 E H = 08 51 41.2 h = 55 km MB = 5.0 D = 81.96 Az = 328.3 (NEIS)
10.	e(Pn)	A	22	35	33	<u>Switzerland</u> 46.6 N 6.9 E H = 22 34 02 h = 0 km D = 5.13 Az = 36 (ISC)
	e(Sn)	A		36	37.5	
11.	eP	A	01	54	13	<u>Sunda Strait</u> 6.10 S 104.11 E H = 01 40 46.2 h = normal MB=5.5 MS=5.2 D = 96.25 Az = 320.2 (NEIS) PV A 1.3s 19.7nm M = 5.4
11.	eP	A	14	22	14.5	<u>Nicobar Islands Region</u> 6.91 N 91.34 E H = 14 10 12.6 h = 7 km MB = 5.2 D = 78.17 Az = 320.2 (NEIS)
12.	+eP	A	10	00	44	<u>Mindoro, Philippine Islands</u> 13.52 N 120.46 E H = 09 47 44.8 h = 74 km MB = 5.5 D = 91.19 Az = 322.9 (NEIS) PV A 1.5s 50.3nm M = 5.6
12.	ePKP	A	21	49	39	<u>Loyalty Islands</u> 20.92 S 168.82 E H = 21 29 59.1 h = normal MB = 4.6 D = 145.33 Az = 334.3 (NEIS)
13.	ePKHKP	A	00	33	27	<u>Tonga Islands Region</u> 22.38 S 174.62 W H = 00 13 34.3 h = normal MB = 4.6 D = 151.36 Az = 351.7 (NEIS) PKHKPV A 1.2s 26.4nm
	e(PKP2)	A		33	39	
13.	eP	A	23	51	54	<u>Northern Celebes</u> 0.01 N 122.74 E H = 23 37 52.9 h = 11 km MB=5.8 MS=4.8 D = 103.26 Az = 322.4 (NEIS)

45



February 1974

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Day	Phase	h	m	s	Remarks	
14.	ePKIKP	A	02	27	02.5	<u>South of Fiji Islands</u> 22.3 S 179.4 W H = 02 07 21.8 h = 33 km MB = 4.9 D = 150.38 Az = 346 (ISC)
14.	eP	A	06	50	46.5	<u>Northern Sumatra</u> 2.55 N 98.97 E H = 06 38 06.5 h = 34 km MB=5.6 MS=5.0 D = 86.37 Az = 320.4 (NEIS) PV A 1.9s 75.7nm M = 5.6
14.	eP	A	12	10	13	<u>North Atlantic Ridge</u> 21.98 N 44.25 W H = 12 01 07.0 h = normal MB = 5.4 D = 51.79 Az = 42.1 (NEIS) PV A 1.2s 20.3nm M = 5.0
14.	eP	A	14	58	06.5	<u>Norwegian Sea</u> 72.32 N 1.17 E H = 14 53 09.7 h = normal MB = 4.6 D = 22.25 Az = 162.2 (NEIS) PV A 1.3s 17.5nm M = 4.3
15.	e(P)	A	04	04	35.5	<u>Philippine Islands Region</u> 20.38 N 121.55 E H = 03 51 46.6 h = 36 km MB = 5.1 D = 86.37 Az = 323.1 (NEIS) (P)V A 1.6s 27.5nm (M = 5.2)
15.	LmH	B	09	11	3	<u>Ryukyu Islands</u> 28.75 N 128.53 E H = 08 24 01.7 h = 48 km MB = 4.7 (ISC) D = 83.2 LmH B 18s 2.7 $\mu$ m M = 5.7
16.	eP	A	02	02	51.5	<u>Andaman Islands Region</u> 11.43 N 92.35 E H = 01 51 10.8 h = 25 km MB=5.5 MS=6.0 D = 75.38 Az = 319.5 (NEIS) PV A 1.8s 33.8nm M = 5.1 LmH B 18.5 5.5 $\mu$ m 5.9 LmV B 18 4.0 $\mu$ m 5.8

46

February 1974

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Day	Phase	h	m	s	Remarks	
16.	ePKP2	A	05	59	35	<u>Kermadec Islands Region</u> 31.54 S 179.16 E H = 05 39 56.2 h = 499 km MB = 5.3 D = 158.78 Az = 338 (ISC)
	epPKP	A	06	01	39.5	PKP2V A 1.5s 95.5nm
16.	ePKP	A	07	16	55.5	<u>Loyalty Islands Region</u> 22.41 S 171.31 E H = 06 57 28.5 h = 119 km MB = 5.1 D = 147.65 Az = 335.6 (NEIS) PKPV A 2.5s 76.8nm
16.	eP	A	16	22	05.5	<u>Taiwan Region</u> 21.54 N 121.54 E H = 16 09 38.1 h = 115 km MB = 4.7 D = 85.44 Az = 323.1 (NEIS)
17.	eP	A	04	46	55	<u>Mariana Islands</u> 18.44 N 146.69 E H = 04 33 11.9 h = 58 km MB = 5.6 D = 100.69 Az = 332.8 (NEIS) h = 57 km
	epP	A		47	11	
	esP	A		47	15.5	
17.	ePP	A	05	06	48	<u>Greece</u> 38.01 N 21.71 E H = 05 03 07.4 h = normal MB = 3.9 D = 14.53 Az = 333.6 (NEIS)
17.	e(P)	A	11	41	55	<u>Ionian Sea</u> 37.3 N 20.9 E H = 11 38 19 h = 33 km MB = 3.9 D = 14.87 Az = 336 (ISC)
17.	eP	A	12	18	43	<u>Southern Greece</u> 37.11 N 21.14 E H = 12 15 07.1 h = 0 km MB = 4.1 D = 15.15 Az = 340 (ISC)
17.	eP	A	21	31	38.5	<u>Unimak Island Region</u> 53.65 N 163.54 W H = 21 19 53.2 h = normal MB = 4.7 D = 76.00 Az = 3.2 (NEIS) PV A 1.1s 16.1nm M = 4.9
18.	ePKHKP	A	09	11	24	<u>South of Fiji Islands</u> 23.51 S 179.83 E H = 08 52 30.5 h = 256 km MB = 4.5 D = 151.40 Az = 344 (ISC)

47

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
18.	eP	A	21	13	33.5	<u>Off East Coast of Honshu, Japan</u> 39.71 N 143.53 E H = 21 01 22.3 h = normal MB=4.7 MS=5.3 D = 80.64 Az = 331.3 (NEIS) PV A 1.9s 45.5nm M = 5.1 LmH C 19 1.5/um 5.4 LmV B 16 1.1/um 5.3
	ePcP	A		13	42	
	LmH	C		48.2		
	LmV	B		55.6		
19.	e(PKP)	A	01	42	29	<u>Timor</u> 8.98 S 123.95 E H = 01 23 49.2 h = normal MB=5.3 MS=5.3 D = 111.01 Az = 320.9 (NEIS) (PKPV) A 3.0s 79.0nm
	e	A		43	04	
19.	eP	A	02	15	19.5	<u>East of Lake Baikal</u> 55.0 N 113.4 E H = 02 05 40 h = 0 km MB = 4.2 D = 55.86 Az = 311 (ISC)
19.	eP	AB	03	43	30	<u>Luzon, Philippine Islands</u> 13.91 N 122.12 E H = 03 30 21.8 h = 17 km MB=5.7 MS=6.1 D = 91.85 Az = 323.4 (NEIS) PV A 1.8s 128.0nm M = 6.0 LmH C 25.3 48.2/um 6.8 LmV B 17.5 15.7/um 6.5
	eSKS	C		54	28	
	ePPS	B		56	32	
	LmH	C	04	19.9		
	LmV	B		28.8		
19.	eP	A	04	17	06	<u>Hindu Kush Region</u> 35.96 N 70.87 E H = 04 09 02.9 h = 85 km MB = 5.0 D = 44.36 Az = 308.5 (NEIS)
20.	ePKHKP	A	00	56	22.5	<u>Tonga Islands</u> 20.78 S 174.89 W H = 00 36 37.7 h = 60 km MB = 5.0 D = 149.76 Az = 351.8 (NEIS) PKHKPV A 1.6s 27.5nm
20.	eP	A	11	51	03	<u>Kirgiz SSR</u> 40.66 N 73.22 E H = 11 43 03.9 h = 25 km MB = 5.1 D = 43.05 Az = 304.9 (NEIS) LmV B 12s 1.3/um M = 5.1
	LmH	C	12	10.5		
	LmV	B		10.6		

48

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
20.	eP	A	16	22	41	<u>Dominican Republic Region</u> 19.58 N 70.02 W H = 16 11 26.8 h = 18 km MB = 4.9 D = 69.87 Az = 42.1 (NEIS) LmH C 19s 1.3/um M = 5.2 LmV B 16 0.9/um 5.2
	LmH	C		49.0		
	LmV	B		51.8		
21.	e(Pg)	A	04	25	06.5	<u>Upper Silesia, Poland</u> Rockburst (WAR)
	e	A		25	30	
	e(Sg)	A		26	16	
21.	ePKP	A	17	39	35.5	<u>Banda Sea</u> 7.58 S 127.41 E H = 17 21 17.8 h = 165 km MB = 5.4 D = 112.07 Az = 321.8 (NEIS)
22.	+eP1	A	00	48	39.5	<u>Near S. Coast of Southern Honshu</u> 33.15 N 136.91 E H = 00 36 53.8 h = 385 km MB = 6.0 D = 83.62 Az = 328.5 (NEIS) h = 395 km P1V A 1.4s 46.6nm P2V A 1.2 187.0nm PmV A 1.3 340.0nm M = 5.9 SH B 8.5 31.2/um 6.9 P'P'V A 1.8 60.8nm LmH C 16 7.1/um LmV C 16 6.0/um
	-iP2	AB		48	42.2	
	Pm	A		48	47	
	epP	AB		50	10	
	esP	B		50	50	
	ePP	A		51	59	
	iSKS	BC		58	24.5	
	eiS	AB		58	26	
	eSP	B		59	10	
	ePS	C	01	00	04	
	eSS	C		03	50	
	esSS	C		06	25	
	ePKKP	A		06	57.5	
	e	C		07	14	
	e	C		10	07	
eP'P'	A		14	57.5		
eSKPP'	A		17	45		
LmH	C		33.2			
LmV	C		33.2			

49

February 1974

Moxa

Day	Phase	h m s	Remarks
22.	+iP e ePPP eSSS	AB A A AC	03 41 27.7 42 00 43 47 52 10.5
			<u>Afghanistan-USSR Border Region</u> 36.50 N 71.50 E H = 03 33 26.5 h = 116 km MB = 5.4 D = 44.43 Az = 308.1 (NEIS) PV A 2.0s 222.0nm M = 5.6
22.	+eP LmH LmV	AB B B	07 14 57.5 41.7 41.7
			<u>West Pakistan</u> 29.69 N 67.60 E H = 07 06 32.6 h = normal MB = 5.0 D = 46.38 Az = 313.2 (NEIS) PV A 1.2s 56.9nm M = 5.4 LmV B 13 0.9/um 5.0
22.	eP e	A A	13 43(25) 43 33
			<u>Rumania</u> 45.65 N 26.31 E H = 13 40 49.0 h = 149 km MB = 4.2 D = 11.01 Az = 302.3 (NEIS)
23.	e(P)	A	01 32 19.5
			<u>Greece</u> 38.06 N 21.77 E H = 01 28 45.5 h = 44 km MB = 4.4 D = 14.51 Az = 333.4 (NEIS)
23.	eP esP	A A	04 26 51 27 13.5
			<u>Hokkaido, Japan Region</u> 42.22 N 143.05 E H = 04 14 56.7 h = 64 km MB = 5.3 D = 78.27 Az = 330.8 (NEIS) h = 61 km PV A 0.8s 25.5nm M = 5.2
23.	ePKP	A	07 29 55
			<u>Fiji Region</u> 17.7 S 177.91 W H = 07 10 18.4 h = 0 km MB = 4.6 D = 146.26 Az = 349 (ISC) traces
23.	eP	A	20 58 33
			<u>Greece</u> 38.35 N 20.22 E H = 20 55 19.1 h = normal MB = 4.4 D = 13.73 Az = 336.4 (NEIS)
25.	eP LmH	A B	01 43 01 02 06.0
			<u>Ascension Islands Region</u> 11.52 S 13.30 W

50

February 1974

Moxa

Day	Phase	h m s	Remarks
cont. 25.	LmV	B	02 10.4
			H = 01 32 17.3 h = normal MB=5.0 MS=4.9 D = 65.61 Az = 17.1 (NEIS) PV A 1.5s 20.1nm M = 5.0 LmH B 21 0.9/um 5.0 LmV B 16 0.7/um 5.0
25.	+iP LmH LmV	AB B B	05 58 26.2 06 36.4 37.8
			<u>Kurile Islands</u> 44.04 N 147.80 E H = 05 46 25.1 h = 12 km MB=5.9 MS=5.4 D = 78.29 Az = 333.2 (NEIS) PV A 1.1s 214.0nm M = 6.1 LmH B 21 5.2/um 5.8 LmV B 15.5 2.8/um 5.7
25.	e	A	16 18 23
25.	+iPn	A	20 05 58.2
			<u>United Kingdom</u> 51.58 N 3.04 W H = 20 03 44.1 h = normal MB = 4.3 D = 9.27 Az = 90.0 (NEIS)
26.	e	A	00 19 02
26.	ePKP	A	00 21 32
			<u>Fiji Islands Region</u> 16.8 S 178.3 W H = 00 01 57.6 h = 0 km MB = 4.9 D = 145.36 Az = 349 (ISC)
26.	+eP esP	AB A	06 35 11.5 35 30
			<u>Near East Coast of Kamchatka</u> 53.32 N 159.70 E H = 06 23 45.3 h = 49 km MB=5.6 MS=4.7 D = 72.98 Az = 339.4 (NEIS) h = 50 km
26.	LmV LmH	B B	11 04.5 04.6
			<u>South of the Marianas</u> 12.04 N 143.76 E H = 09 55 19.6 h = 33 km MB = 5.2 or 12.11 N 143.69 E H = 09 58 39.9 h = 42 km MB = 5.5 (ISC) D = 105.0 LmH B 17s 0.9/um M = 5.4 LmV B 18 1.2/um 5.7

51

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
26.	eP	A	11	16	50	<u>Ionian Sea</u> 37.24 N 20.85 E
	LmH	B		22.4		H = 11 13 20.7 h = normal MB = 4.4
	LmV	B		23.8		D = 14.94 Az = 336.7 (NEIS) LmH B 12s 0.8/um M = 4.1 LmV B 12 0.9/um 4.2
26.	e	A	14	23	32.5	<u>Mediterranean Sea</u> 35.18 N 22.90 E
						H = 14 19 19.8 h = 47 km MB = 4.2 D = 17.50 Az = 336 (ISC) traces
26.	e(P)	A	23	28	34	<u>Off Coast of Oregon</u> 44.01 N 128.3 W
						H = 23 16 24.3 h = 33 km MB = 4.6 D = 79.48 Az = 25 (ISC)
27.	eP	A	03	54	09	<u>Off Coast of Oregon</u> 43.88 N 128.44 W
						H = 03 42 01.4 h = 15 km MB = 5.0 MS = 4.9 (NEIS) D = 80.0 PV A 1.5s 15.1nm M = 4.8
27.	eP	A	03	55	24	<u>Off Coast of Oregon</u> 43.85 N 128.55 W
						H = 03 43 19.2 h = normal MB = 5.0 D = 79.71 Az = 24.5 (NEIS) PV A 1.5s 35.2nm M = 5.1
27.	eP	A	04	39	13	<u>Ascension Island Region</u>
	e	A		39	19	11.60 S 13.41 W
	eX	A		39	25	H = 04 28 30.3 h = normal MB=5.1 MS=4.7
	LmH	B	05	02.2		D = 65.72 Az = 17.2 (NEIS)
	LmV	B		08.8		PV A 1.9s 30.5nm M = 5.1 XV A 1.9 53.0nm LmH B 20.8 1.5/um 5.2 LmV B 16 1.4/um 5.3

February 1974

Moxa

Day	Phase	h	m	s	Remarks	
27.	eP	A	17	12	18	<u>Southern Nevada</u> 37.10 N 116.05 W
						H = 17 00 00.1 h = 0 km MB = 5.8 D = 81.25 Az = 30.7 (NEIS) Nuclear explosion LATIR (AEC) PV A 1.2s 40.7nm M = 5.4
27.	-iP	A	18	14	30	<u>Northern Sumatra</u> 1.27 N 97.67 E
	e	A		14	39	H = 18 01 48.7 h = normal MB=5.9 MS=5.4
	LmH	B		56.2		D = 86.51 Az = 320.5 (NEIS)
	LmV	B	19	03.3		PV A 1.3s 155.0nm M = 6.1 LmH B 20 0.6/um 5.0 LmV B 16.5 0.6/um 5.1
27.	ePKP	A	19	12	42.5	<u>Samoa Islands Region</u> 16.59 S 172.30 W
						H = 18 53 04.4 h = normal MB = 5.1 D = 145.88 Az = 355.6 (NEIS) PKPV A 1.4s 51.1nm
27.	ePKHKP	ABC	20	57	36	<u>Tonga Islands</u> 17.85 S 173.16 W
	e	A		57	45.5	H = 20 37 53.9 h = normal MB=5.1 MS=4.8 D = 147.06 Az = 354.4 (NEIS) PKHKPV A 1.7s 45.5nm
27.	eP	A	23	16	14.5	<u>Sicily</u> 37.5 N 15.5 E
	LmH	B		21.1		H = 23 13 04 h = 0 km
	LmV	B		22.4		D = 13.38 Az = 349 (ISC) LmH B 16s 1.4/um M = 4.1 LmV B 12 1.1/um
28.	ePKHKP	A	05	06	39.5	<u>South of Fiji Islands</u> 23.28 S 176.15 W
						H = 04 46 49.2 h = normal MB = 5.1 D = 152.02 Az = 349.4 (NEIS)
28.	ePKP	A	13	19	06	<u>New Hebrides Islands</u> 19.20 S 169.82 E
						H = 12 59 29.7 h = 14 km MB = 5.5 D = 144.17 Az = 336.2 (NEIS)
28.	eP	A	13	43	02	<u>Sicily</u> 37.5 N 15.1 E
						H = 13 39 46 h = 0 km D = 13.42 Az = 350 (ISC)

February 1974

Moxa

Day	Phase	h m s	Remarks
28.	ePKIKP ABC	14 19 17	<u>Off E. Coast of N. Island, N.Z.</u>
	ePKHKP A	19 32.5	36.81 S 176.85 E
	ePKP2 ABC	20 06.5	H = 13 59 17.8 h = 15 km MB=5.8 MS=6.2
	ePP ABC	23 56.5	D = 162.58 Az = 327.2 (NEIS)
	eSKSP BC	34 18	PKP2V A 3.2s 1080.0nm
	ePPS C	37 16	LmH B 19 4.8/um M = 6.2
	e B	37 34	LmV B 19 6.2/um 6.5
	eSSS BC	50 32	
	ePSPS2 BC	52 42	
	LmH B	15 44.1	
LmV B	44.1		
28.	ePKP2 A	14 26 08	<u>Off East Coast of North Island, N.Z.</u>
			36.65 S 147.14 E H = 14 05 19 h = 15 km D = 162.57 Az = 328 (ISC) PKP2V A 1.6s 38.5nm
28.	ePKHKP A	14 58 19	<u>Off E.Coast of N. Island, N.Z.</u>
			36.96 S 177.01 E H = 14 38 10.2 h = normal MB = 5.3 D = 162.78 Az = 327.2 (NEIS)
28.	eP A	15 11 39	<u>Andreanof Islands, Aleutian Is.</u>
			51.42 N 179.34 W H = 14 59 47.3 h = 56 km MB = 4.8 D = 77.89 Az = 352.9 (NEIS) PV A 1.9s 30.3nm M = 5.0
28.	e A	15 29 33	<u>Upper Silesia, Poland</u>
			Rockburst (WAR)
28.	eP A	16 10 20	<u>Hokkaido, Japan Region</u> 42.17 N 143.10 E
			H = 15 58 27.8 h = 73 km MB = 4.7 D = 78.33 Az = 330.9 (NEIS)

February 1974

Moxa

Day	Phase	h m s	Remarks
28.	ePKIKP A	16 25 47	<u>Tonga Islands</u> 18.60 S 174.47 W
			H = 16 06 14.7 h = 98 km MB = 5.3 D = 147.66 Az = 352.7 (NEIS) PKIKPV A 1.7s 48.5nm
28.	e A	17 25 15.5	<u>Southern Italy</u> 41.1 N 15.3 E
			H = 17 22 49 h = 178 km D = 9.90 Az = 346 (ISC)
28.	eP A	19 31 12	<u>Fox Islands, Aleutian Is.</u>
			53.01 N 166.66 W H = 19 19 21.9 h = normal MB = 5.0 D = 76.71 Az = 1.1 (NEIS) PV A 1.0s 27.6nm M = 5.2
28.	eP A	20 28 16	<u>Costa Rica</u> 9.23 N 84.15 W
			H = 20 15 36.9 h = 59 km MB = 5.2 D = 86.58 Az = 39.4 (NEIS) PV A 1.3s 30.6nm M = 5.3
28.	eP ABC	20 32 50	<u>Costa Rica</u> 9.34 N 84.06 W
	ePP BC	36 10	H = 20 20 10.2 h = 46 km MB=5.8 MS=6.2
	iSKS BC	43 24	D = 86.44 Az = 39.4 (NEIS)
	ePS BC	44 28	PV A 2.0s 398.0nm M = 6.3
	eSS BC	49 20	LmH B 19 7.3/um 6.1
	eSSS C	52 48	LmV B 17 8.2/um 6.2
	LmH B	21 06.7	
	LmV B	16.4	
28.	eP A	21 48 32	<u>Costa Rica</u> 9.47 N 83.93 W
			H = 21 35 54.7 h = 57 km MB = 4.7 D = 86.26 Az = 39.4 (NEIS)
28.	eP A	22 25 07	<u>North of Svalbard</u> 81.59 N 1.98 W
			H = 22 18 48.8 h = normal MB = 4.5 D = 31.37 Az = 163.3 (NEIS)
28.	e A	23 56 54	

March 1974

Moxa

Day	Phase	h	m	s	Remarks	
1.	eP	A	03	09	39	<u>Albania</u> 40.59 N 19.93 E H = 03 06 52.1 h = normal D = 11.61 Az = 332.8 (NEIS)
1.	ePKP2	A	04	46	40	<u>Off East Coast of North Island, N.Z.</u> 36.71 S 176.97 E H = 04 25 40.5 h = 17 km D = 162.54 Az = 328 (ISC)
1.	LmH	B	16	56.8		<u>Komandorsky Islands Region</u> 54.38 N 169.57 E H = 16 04 02.0 h = 28 km MB=4.5 MS=5.4 D = 73.73 Az = 345.6 (NEIS)
2.	ePKP2	A	05	06	47	<u>Off E. Coast of N. Island, N.Z.</u> 36.8 S 177.0 E H = 04 45 58.4 h = 28 km MB = 5.4 MS = 5.0 (NEIS) D = 162.6 PKP2V A 1.4s 51.1nm
2.	ePKP2	A	12	29	29.5	<u>Off East Coast of North Island, N.Z.</u> 36.63 S 177.18 E H = 12 08 37.6 h = 12 km D = 162.56 Az = 328 (ISC) PKP2V A 2s 42.7nm
3.	eP	ABC	05	03	09	<u>Near East Coast of Honshu, Japan</u> 35.59 N 140.60 E H = 04 50 48.9 h = 46 km MB=5.6 MS=5.6 D = 83.09 Az = 330.1 (NEIS)
	e	A	03	24		
	ePP	BC	06	24		
	eS	BC	13	26		
	LmH	B	42.9			PV A 2.0s 226.0nm M = 5.9
	LmV	B	45.3			PV B 6.4 1.74/um 6.3 LmH B 16.5 6.4/um 6.1 LmV B 13 4.2/um 6.0
3.	eP	A	12	04	02	<u>Kurile Islands</u> 44.24 N 147.77 E H = 11 52 04.6 h = normal MB = 4.4 D = 78.11 Az = 333.2 (NEIS)

56

March 1974

Moxa

Day	Phase	h	m	s	Remarks	
3.	ePKP2	ABC	13	12	37	<u>Off East Coast of N. Island, N.Z.</u> 36.7 S 177.1 E H = 12 51 44.9 h = 6 km MS = 5.4 (NEIS) D = 162.6 PKP2V A 1.5s 37.7nm
3.	ePKP2	A	13	48	03.5	<u>Off East Coast of North Island, N.Z.</u> 36.76 S 176.88 E H = 13 27 12.6 h = 10 km D = 162.55 Az = 327 (ISC)
3.	eiPKIKP	ABC	14	42	14	<u>New Hebrides Islands</u> 20.06 S 169.71 E H = 14 22 37.5 h = 17 km MB=6.1 MS=6.1 D = 144.91 Az = 335.6 (NEIS)
	e	B	42	50		
	e	B	43	17		
	ePPP	A	48	43		PKIKPV A 1.4s 312.0nm
	LmH	B	15	40.4		LmH B 19 4.0/um M = 6.1
	LmV	B	58.0			LmV B 18 2.9/um 6.1
3.	eP	A	16	28	20	<u>Svalbard Region</u> 76.55 N 13.10 E H = 16 22 48.0 h = normal MB = 4.2 D = 26.01 Az = 182.2 (NEIS) PV A 1.4s 18.6nm M = 4.5
3.	ePKP	A	18	27	29	<u>Fiji Islands Region</u> 16.74 S 176.78 E H = 18 07 54.9 h = 90 km MB = 4.9 D = 144.14 Az = 343.8 (NEIS) PKPV A 1.7s 24.2nm
4.	eP	A	01	10	55.5	<u>Azores Islands Region</u> 36.28 N 34.10 W H = 01 03 59.7 h = normal MB=4.9 MS=4.8 D = 35.56 Az = 51.6 (NEIS)
	LmV	B	23.7			
	LmH	B	24.2			
						LmH B 16s 0.6/um M = 4.5 LmV B 18 0.8/um 4.6
4.	ePn	A	02	18	43.5	<u>Northern Italy</u> 46.02 N 10.54 E H = 02 17 33.0 h = normal D = 4.68 Az = 8.4 (NEIS)
	e	A	19	10		

57

March 1974

Moxa

Day	Phase	h m s	Remarks
4.	eP A	06 24 59	<u>North of Severnaya Zemlya</u> 85.37 N 92.95 E H = 06 17 33.4 h = normal MB = 4.4 D = 39.07 Az = 267.0 (NEIS)
4.	ePKP A	11 35 02	<u>New Hebrides Islands</u> 20.05 S 169.52 E H = 11 15 29.8 h = 53 km MB = 5.1 D = 144.82 Az = 335.4 (NEIS) PKPV A 1.4s 23.2nm
4.	ePKHKP ABC epPKP ABC e A e C	12 57 34.5 59 08 13 02 27 15 30	<u>Fiji Islands Region</u> 18.84 S 177.66 W H = 12 38 33.6 h = 383 km MB = 5.5 D = 147.41 Az = 349.0 (NEIS) PKHKPV A 1.8s 118.0nm
6.	eP A	00 15 37	<u>Svalbard Region</u> 77.05 N 12.72 E H = 00 10 00.3 h = normal MB = 3.9 D = 26.51 Az = 181.6 (NEIS)
6.	eP ABC epP ABC	01 52 53 53 25	<u>Nicaragua</u> 12.29 N 86.39 W H = 01 40 26.4 h = 110 km MB = 5.8 D = 85.62 Az = 39.2 (NEIS) h = 128 km PV A 1.9s 90.9nm M = 5.4 pPV A 1.6 269.0nm
6.	eP A	02 43 49	<u>Ascension Island Region</u> 5.64 S 11.36 W H = 02 33 47.5 h = normal MB = 5.2 D = 59.47 Az = 16.8 (NEIS) PV A 1.4s 23.2nm M = 5.1
6.	e A	04 01 37	
6.	ePKIKP A	04 38 41.5	<u>New Hebrides Islands</u> 18.69 S 169.15 E H = 04 19 38.0 h = 247 km MB = 4.8 D = 143.45 Az = 335.9 (NEIS) PKIKPV A 1.4s 32.6nm

March 1974

Moxa

Day	Phase	h m s	Remarks
6.	eP A	06 43 41	<u>Kurile Islands</u> 44.16 N 148.02 E H = 06 31 42.8 h = normal MB = 5.0 D = 78.26 Az = 333.4 (NEIS)
6.	e(pPKP) ABC ePP A e A e BC e BC eSS BC LmH B LmV B	19 48 01 48 30 49 04 56 12 57 44 20 04 24 36.0 42.4	<u>Banda Sea</u> 6.60 S 128.98 E H = 19 29 08.1 h = 26 km MB=5.7 MS=6.3 D = 112.26 Az = 322.3 (NEIS) LmH B 19s 7.3/um M = 6.3 LmV B 19.5 5.4/um 6.2
6.	eP A e A	20 52 58 53 17	<u>Near East Coast of Honshu, Japan</u> 40.28 N 142.22 E H = 20 40 55.1 h = 59 km MB = 5.0 D = 79.65 Az = 330.6 (NEIS)
7.	e A	00 58 53	<u>Banda Sea</u> 6.43 S 129.20 E H = 00 39 55.7 h = 46 km MB=5.1 MS=4.7 D = 112.26 Az = 322.4 (NEIS)
7.	eP A	03 54 57	<u>Eastern Mediterranean Sea</u> 33.92 N 25.54 E H = 03 50 29.0 h = normal MB = 4.3 D = 19.58 Az = 332.8 (NEIS)
7.	e A	10 31 46	
7.	eP1 A eP2 A eS B LmH B LmV B	11 42 45 42 48 48 12 12 02.4 04.5	<u>Iran-USSR Border Region</u> 37.60 N 55.83 E H = 11 36 02.4 h = 21 km MB=5.1 MS=5.0 D = 33.80 Az = 307.1 (NEIS) P2V A 1.4s 41.8nm M = 5.2 LmH B 13 1.7/um 5.0 LmV B 14 1.4/um 5.0

March 1974

Moxa

Day	Phase	h m s	Remarks
7.	ePKP2 A	19 02 38.5	<u>Off East Coast of N. Island, N.Z.</u> 36.72 S 176.93 E H = 18 41 48.0 h = 12 km D = 162.54 Az = 327 (ISC)
8.	eP A	01 56 58.5	<u>Afghanistan</u> 33.10 N 69.38 E H = 01 48 41.7 h = normal MB = 5.0 D = 45.23 Az = 310.7 (NEIS)
8.	eP A	02 38 07	<u>Crete</u> 34.78 N 24.72 E H = 02 33 53.1 h = 50 km MB = 4.5 D = 18.51 Az = 332.9 (NEIS) PV A 1.0s 11.8nm M = 4.0 LmV B 12 0.5 $\mu$ m 4.2
	LmV B	46.5	
	LmH B	46.6	
8.	ePg A	08 00 20.5	<u>Czechoslovakia</u> 50.64 N 10.07 E Explosion H = 07 59.9 yield 4.5 t (PRU) D = 1.56 Az = 2.71 (ISC)
8.	eP A	09 37 29	<u>Kyushu, Japan</u> 30.92 N 131.63 E H = 09 25 06.1 h = 42 km MB=5.5 MS=5.4 D = 83.08 Az = 326.3 (NEIS)
	epP A	37 43	
	LmH B	10 19.3	h = 50 km
	LmV B	19.3	PV A 2.0s 42.7nm M = 5.2 LmH B 17 2.2 $\mu$ m 5.6 LmV B 17 2.5 $\mu$ m 5.7
8.	e(pP) A	12 34 44.5	<u>Crete</u> 34.70 N 24.7 E H = 12 30 18 h = 44 km MB = 4.2 D = 18.56 Az = 333 (ISC)
9.	e(pP) A	03 56 31	<u>Crete</u> 34.54 N 24.8 E H = 03 52 07 h = 38 km MB = 4.2 D = 18.77 Az = 333 (ISC)
9.	eP A	04 16 23.5	<u>Crete</u> 34.63 N 25.05 E H = 04 12 07.7 h = 54 km MB = 4.6
	LmV B	24.8	

60

March 1974

Moxa

Day	Phase	h m s	Remarks
cont.			
9.	LmH B	04 25.0	D = 18.76 Az = 332.6 (NEIS) LmH B 11s 0.6 $\mu$ m LmV B 11.5 0.8 $\mu$ m
9.	iPKP A	18 00 21	<u>New Hebrides Islands</u> 19.00 S 169.56 E H = 17 41 20.1 h = 286 km MB = 5.4 D = 143.89 Az = 336.1 (NEIS) PKPV A 1.4s 93.0nm
9.	ePKP A	18 27 07	<u>New Hebrides Islands</u> 19.02 S 169.35 E H = 18 07 59.6 h = 224 km D = 143.83 Az = 335.9 (NEIS)
9.	ePKIKP ABC	20 33 31	<u>Solomon Islands</u> 7.48 S 156.18 E H = 20 14 28.3 h = 50 km MB=5.8 MS=6.5 D = 127.89 Az = 332.1 (NEIS) PKIKPV A 2.1s 148.3nm
	e A	33 40	
	ePP ABC	35 31.5	
	e BC	39 14	
	eSKS BC	40 28	
	ePPS BC	47 16	
9.	ePKIKP A	20 37 05.5	<u>Solomon Islands</u> 7.34 S 156.19 E H = 20 18 66.3 h = normal MB=5.7 MS=6.6 D = 127.77 Az = 332.2 (NEIS) PKIKPV A 2.0s 51.3nm
9.	ePKIKP A	20 53 19	<u>Solomon Islands</u> 7.51 S 156.14 E H = 20 34 16.3 h = 48 km MB = 5.2 D = 127.89 Az = 332.1 (NEIS)
9.	ePKHKP A	24 16 57.0	<u>Fiji Islands Region</u> 20.27 S 178.46 W H = 23 58 13.1 h = 586 km MB = 4.5 D = 148.66 Az = 347.6 (NEIS) PKHKPV A 1.4s 14.0nm
10.	eP A	00 24 45	<u>Andreanof Islands, Aleutian Is.</u> 50.53 N 175.11 W H = 00 12 40.4 h = 28 km MB = 4.7 D = 79.04 Az = 355.6 (NEIS)

61



March 1974

Moxa

Day	Phase	h m s	Remarks	
10.	ePKP LmH LmV	A B B	08 06 35 09 06.5 06.7	<u>Solomon Islands</u> 7.40 S 156.01 E H = 07 47 32.6 h = 54 km MB = 5.3 D = 127.74 Az = 332.1 (NEIS) PKPV A 1.0s 21.6nm LmH B 20 0.5/um M = 5.2 LmV B 18 0.6/um 5.3
10.	eP ePP eSKS eS LmV LmH	ABC BC BC BC B B	16 30 12 34 00 40 48 41 14 17 16.3 16.4	<u>Near Coast of Ecuador</u> 0.40 N 80.05 W H = 16 17 08.8 h = 43 km MB=5.1 MS=5.6 D = 90.75 Az = 39.5 (NEIS) LmH B 19.5s 1.1/um M = 5.3 LmV B 18 1.1/um 5.4
10.	ePP	A	21 54 09	<u>Greece</u> 40.75 N 21.16 E H = 21 51 02.5 h = 17 km MB = 4.1 D = 11.92 Az = 329.3 (NEIS)
11.	ePKP	A	05 52 07	<u>Scotia Sea</u> 59.80 S 58.84 W H = 05 33 11.0 h = normal MB=5.4 MS=5.5 D = 123.89 Az = 46.3 (NEIS)
11.	eP e e eS eSS LmH	AB B B B B B	11 49 02.5 49 38 52 28 58 28 12 03 28 23.2	<u>Kurile Islands</u> 48.32 N 153.20 E H = 11 37 33.5 h = 169 km MB = 5.9 D = 76.04 Az = 335.9 (NEIS) PV A 2.4s 664.0nm M = 5.9 SH B 11 2.3/um 6.1 LmH B 18 3.6/um
11.	eP	A	20 28 50	<u>Southern Iran</u> 28.46 N 52.78 E H = 20 21 34.5 h = 44 km MB = 4.7 D = 38.04 Az = 317.2 (NEIS)
12.	e	A	01 52 23	<u>Iran</u> 32.22 N 50.16 E H = 01 45 35.9 h = 34 km MB = 4.4 D = 33.77 Az = 314.5 (NEIS) traces

March 1974

Moxa

Day	Phase	h m s	Remarks	
12.	eP LmH LmV	A B B	06 59 22 07 11.6 12.5	<u>Turkey-Iran Border Region</u> 38.41 N 44.02 E H = 06 53 52.1 h = 50 km MB = 4.5 D = 25.93 Az = 308.7 (NEIS) LmH B 17s 0.8/um M = 4.3
12.	eP	A	08 42 56.5	<u>Kurile Islands</u> 43.92 N 147.88 E H = 08 31 01.6 h = 57 km MB = 4.8 D = 78.43 Az = 333.3 (NEIS)
12.	eP	A	10 27 21	<u>Alaska Peninsula</u> 54.31 N 162.41 W H = 10 15 41.2 h = 56 km MB = 4.0 D = 75.30 Az = 3.9 (NEIS)
12.	eP	A	13 56 09.5	<u>Kyushu, Japan</u> 30.29 N 129.31 E H = 13 43 53.9 h = 80 km MB = 5.0 D = 82.47 Az = 325.3 (NEIS)
12.	eP	A	18 20 30	<u>Southwestern Ryukyu Islands</u> 23.56 N 125.40 E H = 18 07 56.0 h = 69 km MB = 4.8 D = 85.93 Az = 324.3 (NEIS)
12.	eP	A	18 25 38	<u>Dodecanese Islands</u> 36.82 N 26.33 E H = 18 21 33.9 h = 39 km MB=4.7 MS=4.1 D = 17.39 Az = 327.3 (NEIS) PV A 1.8s 33.8nm M = 4.2
13.	LmH LmV	B B	01 20.7 24.7	<u>Talau Islands</u> 2.67 N 125.45 E H = 00 15 37.4 h = 51 km MB = 5.2 (ISC) D = 108.6 LmH B 18s 0.6/um LmV B 17 0.5/um
13.	ePKIKP	A	08 28 47.5	<u>Solomon Islands</u> 7.39 S 156.10 E H = 08 09 46.2 h = 54 km MB = 5.4 D = 127.77 Az = 332.1 (NEIS) PKIKPV A 1.4s 20.9nm

March 1974

Moxa

Day	Phase	h	m	s	Remarks
13.	ePKHKP A	08	50	26	<u>South of Fiji Islands</u> 23.53 S 179.97 E H = 08 31 29.2 h = 494 km MB = 4.8 D = 151.46 Az = 344.4 (NEIS) PKHKPV A 1.2s 16.3nm
13.	e A	10	01	26	<u>Northern Italy</u> 45.30 N 10.85 E H = 09 59 33.3 h = 0 km (ISC) D = 5.4
13.	e(Pg) A	12	17	27	
13.	eP A	17	25	02	<u>Crete</u> 34.65 N 24.83 E
	ePP A	25	12.5		H = 17 20 45.5 h = 51 km MB = 4.6
	ePPP A	25	25		D = 18.66 Az = 332.9 (NEIS)
	LmH B	33.4			LmH B 14.5s 0.6/um M = 4.0
	LmV B	33.4			LmV B 14 0.9/um 4.4
14.	ePKP A	10	32	07.5	<u>New Hebrides Islands</u> 20.20 S 169.96 E H = 10 12 27.6 h = 1 km MB = 5.2 MS=5.0 D = 145.13 Az = 335.7 (NEIS) PKPV A 1.9s 136.0nm
14.	e(Pn) A	21	00	15.5	<u>Albania</u> 41.85 N 19.38 E
	eSg A	03	13		H = 20 57 34.4 h = normal MB = 4.3
	e A	03	22		D = 10.30 Az = 331.2 (NEIS)
14.	ePKIKP AB	21	18	20	<u>New Hebrides Islands</u> 13.86 S 166.77 E
	e A	20	53		H = 20 58 54.8 h = 18 km MB=5.6 MS=5.8
	ePP B	21	10		D = 138.13 Az = 336.4 (NEIS)
	e B	40	54		PKIKPV A 1.6s 27.5nm
	LmH B	22	27.3		LmH B 19 1.8/um M = 5.8
	LmV B	27.8			LmV B 18 2.3/um 6.0
14.	ePKP A	21	54	53	<u>New Hebrides Islands Region</u> 19.16 S 167.67 E H = 21 35 23.0 h = normal MB = 5.2 D = 143.28 Az = 334.4 (NEIS)

March 1974

Moxa

Day	Phase	h	m	s	Remarks
14.	ePKIKP' A	23	12	50.5	<u>Fiji Islands Region</u> 19.16 S 177.83 W
	ePKHKP A	12	54.5		H = 22 54 09.0 h = 542 km MB = 5.0
	ePKP2 A	12	58		D = 147.70 Az = 348.7 (NEIS)
	PKHKPV A	1.6s	33.0nm		
	PKP2V A	1.2	28.4nm		
15.	e A	06	10	09	traces
15.	ePn A	07	11	43	<u>Poland</u> 49.9 N 19.1 E H = 07 10 23 h = 0 km D = 4.82 Az = 281 (ISC)
15.	ePg A	16	46	32.5	<u>German Democratic Republic</u> 50.4 N 12.9 E H = 16 46 17 D = 0.87 Az = 288 (ISC)
15.	ePcP A	21	25	44	<u>South of Honshu, Japan</u> 30.50 N 141.73 E H = 21 12 39.6 h = 29 km MB = 4.8 D = 87.97 Az = 330.8 (NEIS)
15.	eP A	22	23	16.5	<u>Kurile Islands Region</u> 49.44 N 158.46 E
	LmH B	45.7			H = 22 11 29.4 h = 35 km MB = 5.0
	LmV B	46.5			D = 76.33 Az = 339.0 (NEIS)
	PV A	1.7s	24.2nm		M = 4.9
	LmH B	16	0.5/um		4.9
	LmV B	16	0.7/um		5.1
16.	ePKP A	01	22	56	<u>Tonga Islands</u> 15.26 S 173.63 W H = 01 03 24.5 h = 53 km MB = 4.7 D = 144.45 Az = 354.2 (NEIS)
16.	ePKHKP A	15	20	50	<u>South of Fiji Islands</u> 22.56 S 176.54 W H = 15 01 14.5 h = 160 km MB = 4.4 D = 151.25 Az = 349.2 (NEIS)
17.	eP A	01	31	43	<u>Kurile Islands</u> 43.79 N 147.66 E H = 01 19 51.3 h = 105 km MB = 4.7 D = 78.47 Az = 333.2 (NEIS)

March 1974

Moxa

Day	Phase	h m s	Remarks
17.	eiP A	04 09 48	<u>Northern Sumatra</u> 1.29 N 98.56 E H = 03 57 07.1 h = 61 km MB = 5.7 D = 87.06 Az = 320.5 (NEIS) PV A 1.8s 135.0nm M = 5.7
17.	ePKP A	11 31 02	<u>Loyalty Islands</u> 20.94 S 168.77 E H = 11 11 18.9 h = 15 km MB = 4.8 D = 145.33 Az = 334.2 (NEIS)
17.	eP A	13 36 10	<u>Eastern Gulf of Aden</u> 14.07 N 51.62 E H = 13 27 26.0 h = normal MB = 4.5 D = 48.74 Az = 327.0 (NEIS)
17.	eP A	16 24 50.5	<u>Ryukyu Islands</u> 27.35 N 128.02 E H = 16.12 24.6 h = 74 km MB = 5.2 D = 84.23 Az = 325.0 (NEIS) PV A 1.2s 22.4nm M = 5.1
17.	ePKHKP A	17 34 38	<u>Tonga Islands Region</u> 22.68 S 174.98 W H = 17 14 42.6 h = normal MB = 5.0 D = 151.61 Az = 351.2 (NEIS) PKHKPV A 1.4s 14.0nm
17.	e A	24 02 15.5	<u>Loyalty Islands Region</u> 20.96 S 169.06 E H = 23 42 15.0 h = normal MB = 4.8 D = 145.46 Az = 334.5 (NEIS)
18.	ePKHKP A	10 59 22	<u>South of Fiji Islands</u> 23.28 S 178.87 E H = 10 40 34.3 h = 592 km MB = 5.0 D = 150.93 Az = 343.2 (NEIS)
18.	ePKP AB	11 15 45.5	<u>Samoa Islands</u> 14.93 S 172.83 W H = 10 56 12.4 h = 27 km MB = 5.9 MS = 6.0 D = 144.19 Az = 355.2 (NEIS) PKPV A 2.0s 158.0nm LmH B 19.5 4.2/um M = 6.2 LmV B 18 4.0/um 6.2

March 1974

Moxa

Day	Phase	h m s	Remarks
18.	e A	11 26 30	
18.	eP A	23 51 30.5	<u>East China Sea</u> 26.96 N 126.55 E H = 23 39 15.5 h = 140 km MB = 5.1 D = 83.79 Az = 324.5 (NEIS)
19.	ePKHKP A	08 03 38.5	<u>Fiji Islands Region</u> 18.51 S 177.80 W H = 07 44 58.2 h = 570 km MB = 4.5 D = 147.07 Az = 349.0 (NEIS) PKHKPV A 1.2s 24.4nm
19.	eP A	12 13 16	<u>Near East Coast of Honshu, Japan</u> 35.29 N 140.77 E H = 12 00 53.6 h = 58 km MB = 5.0 D = 83.41 Az = 330.2 (NEIS) traces
19.	eP A	12 45 17.5	<u>Taiwan Region</u> 22.27 N 121.64 E H = 12 32 46.9 h = 64 km MB = 4.6 D = 84.92 Az = 323.1 (NEIS) traces
19.	eP A	17 11 43	<u>Crete</u> 34.07 N 25.98 E H = 17 07 20.1 h = normal MB = 4.1 D = 19.62 Az = 331.9 (NEIS) traces
20.	ePKIKP A	09 24 33	<u>East New Guinea Region</u> 5.52 S 147.48 E H = 09 05 58.6 h = 168 km MB = 5.2 D = 121.90 Az = 328.5 (NEIS) PKIKPV A 1.4s 18.6nm
20.	e(P) A	17 05 51	<u>Kurilen</u> 44 N 147 E H = 16 53 42 (NORSAR) D = 77.9
20.	eP A	18 55 38.5	<u>North Atlantic Ocean</u> 36.90 N 13.57 W H = 18 50 34.9 h = 0 km D = 22.65 Az = 45 (ISC) PV A 1.2s 10.2nm M = 4.3

March 1974

Moxa

Day	Phase	h m s	Remarks
20.	eP A	23 42 22	<u>Southern Greece</u> 37.23 N 21.70 E H = 23 38 51.7 h = 111 km MB = 3.9 D = 15.23 Az = 334.9 (NEIS)
21.	eP A	06 01 11.5	<u>Near East Coast of Honshu, Japan</u> 36.94 N 141.66 E H = 05 48 52.7 h = 43 km MB = 5.3 D = 82.34 Az = 330.5 (NEIS) PV A 1.5s 32.7nm M = 5.1 LmH B 14.8 0.9/um 5.3 LmV B 15 0.9/um 5.3
21.	eP A	13 52 11.5	<u>Central Mid-Atlantic Ridge</u> 0.20 S 18.23 W H = 13 42 31.8 h = normal MB = 4.9 D = 56.67 Az = 22.3 (NEIS) PV A 1.7s 15.2nm M = 4.8
21.	eP A	15 52 29	
21.	ePKP2 A	16 37 53.5	<u>Tonga Region</u> 19.0 S 172.4 W H = 16 18 14 h = 121 km D = 148.28 Az = 355 (ISC)
21.	ePKIKP A	16 59 43	<u>New Britain Region</u> 4.71 S 152.68 E H = 16 40 52.4 h = 75 km MB = 4.9 D = 123.81 Az = 331.2 (NEIS)
	e A	17 00 04	
22.	ePKP2 A	03 54 58.5	<u>Kermadec Islands</u> 29.2 S 177.3 W H = 03 34 37 D = 157.55 Az = 345 traces
22.	eP A	05 57 04.5	<u>Unimak Island Region</u> 53.70 N 163.43 W H = 05 45 19.0 h = normal MB = 4.9 D = 75.95 Az = 3.2 (NEIS) PV A 1.2s 28.4nm M = 5.1
	ePcP A	57 16	

68

March 1974

Moxa

Day	Phase	h m s	Remarks
22.	eP A	07 15 51	<u>Unimak Island Region</u> 53.62 N 163.37 W H = 07 04 06.2 h = normal MB=5.1 MS=4.6 D = 76.02 Az = 3.3 (NEIS) PV A 1.8s 47.3nm M = 5.2
	ePcP A	16 02	
22.	eP A	09 08 17	<u>Taiwan</u> 23.15 N 121.59 E H = 08 55 50.7 h = 63 km MB = 4.5 D = 84.19 Az = 323.0 (NEIS)
22.	ePKHKP A	14 32 43.5	<u>Fiji Islands Region</u> 21.06 S 178.86 W H = 14 14 01.4 h = 614 km MB = 4.7 D = 149.35 Az = 346.9 (NEIS) PKHKPV A 1.6s 33.0nm
22.	eP A	17 05 10	<u>Greece - Albania Border Region</u> 40.68 N 20.49 E H = 17 02 20.8 h = normal MB = 4.7 D = 11.73 Az = 331.1 (NEIS)
	ePP A	05 20.5	
	ePPPP A	05 37.5	
22.	eP AB	18 22 20	<u>USSR - Mongolia Border Region</u> 49.90 N 90.81 E H = 18 13 40.6 h = normal MB=5.5 MS=4.7 D = 48.29 Az = 303.1 (NEIS) PV A 1.8s 67.6nm M = 5.4 PPV A 1.5 55.3nm LmH B 12.2 1.9/um 5.3 LmV B 13 1.5/um 5.2
	ePP A	24 13.5	
	LmH B	41.7	
	LmV B	43.2	
22.	eP A	19 15 38	<u>Jan Mayen Island Region</u> 70.74 N 14.72 W H = 19 10 27.6 h = 22 km MB = 5.0 D = 23.54 Az = 135.0 (NEIS) PV A 2.0s 94.0nm M = 5.0
23.	eP A	04 35 48	traces
23.	eP A	07 03 14.5	<u>Kurile Islands</u> 46.86 N 153.79 E H = 06 51 20.4 h = normal MB = 4.8 D = 77.54 Az = 336.4 (NEIS)

69

MEXM 1777				Moxa
Day	Phase	h m s	Remarks	
23.	eP	A 07 11 03.5	<u>North Atlantic Ocean</u> 54.02 N 36.09 W H = 07 05 06.9 h = normal MB=4.6 MS=4.6 D = 28.91 Az = 77.0 (NEIS) PV A 2.0s 25.6nm M = 4.6	
23.	e(P)	A 07 15 03	<u>North Atlantic Ocean</u> 53.88 N 35.33 W H = 07 09 02.8 h = normal MB=5.0 MS=4.9 D = 28.50 Az = 77.1 (NEIS) (P)V A 2.2s 32.7nm (M = 4.6)	
23.	eP	A 07 25 09	<u>North Atlantic Ocean</u> 53.84 N 35.42 W H = 07 19 14.2 h = normal MB=5.1 MS=5.1 D = 28.57 Az = 77.0 (NEIS) PV A 2.2s 65.5nm M = 4.9 LmH B 16.5 1.4/um 4.7 LmV B 15.5 1.6/um 4.8	
23.	e	A 10 17 20.5	Probably <u>North Western Kashmir</u> 35.6 N 74.6 E H = 10 08 51 h = 228 km (ISC) D = 46.9	
23.	+iPKIKP	AB 14 47 23	<u>South of Fiji Islands</u> 23.93 S 179.78 E H = 14 28 35.4 h = 535 km MB = 6.1 D = 151.79 Az = 344.0 (NEIS)	
	epPKP	AB 49 30		
	ePP	B 53 14	PKIKPV A 2.2s 895.0nm	
	esPKS	B 57 16	PKIKPV B 7.4 6.2/um	
	e	B 15 00 47		
	ePPS	B 03 24		
	eSS	B 09 42		
23.	ePKIKP	A 15 12 56	<u>South of Fiji Islands</u> 23.80 S 178.76 E H = 14 54 11.3 h = 569 km MB = 5.6 D = 151.40 Az = 342.8 (NEIS)	
	ePKHKP	A 13 02	h = 546 km	
	ePKP2	A 13 13.5		
	epPKIKP	A 15 05.5		
	epPKHKP	A 15 12	PKIKPV A 2.2s 81.8nm PKHKPV A 1.2 110.0nm PKP2V A 1.2 81.3nm pPKHKPV A 1.6 88.0nm	

March 1974				Moxa
Day	Phase	h m s	Remarks	
23.	ePKP	A 15 19 56	<u>South of Fiji</u> 23.6 S 177.1 W H = 15 00 19 h = 0 km MB = 5.1 D = 152.20 Az = 348 (ISC) PKPV A 1.4s 14.0nm	
23.	ePKHKP	A 15 31 17	<u>South of Fiji</u> 26.3 S 179.0 W H = 15 11 56 h = 320 km D = 154.34 Az = 344 (ISC) PKPV A 1.4s 14.0nm	
23.	ePKP	A 16 07 23	<u>South of Fiji</u> 24.1 S 179.7 E H = 15 48 49 h = 557 km D = 151.90 Az = 344 (ISC) PKPV A 2.2s 32.7nm	
23.	ePg	A 18 09 40.5	<u>Poland</u> 50.3 N 19.5 E H = 18 08 07 h = 0 km D = 5.05 Az = 277 (ISC) PV A 1.4s 14.0nm	
23.	ePKHKP	A 18 32 31	<u>South of Fiji Islands</u> 23.86 S 179.65 E H = 18 13 35.7 h = 531 km MB = 4.6 D = 151.69 Az = 343.8 (NEIS)	
23.	eP	A 19 21 49	<u>Off Coast of Oregon</u> 42.68 N 126.09 W H = 19 09 40.9 h = normal MB = 4.5 D = 80.01 Az = 25.8 (NEIS)	
23.	ePKHKP	A 20 30 32	<u>South of Fiji Islands</u> 23.91 S 179.75 E H = 20 11 36.4 h = 532 km MB = 4.7 D = 151.77 Az = 343.9 (NEIS)	
23.	ePKHKP	A 20 45 34.5	<u>New Hebrides Islands Region</u> 21.93 S 173.71 E H = 20 25 51.8 h = normal MB=5.7 MS=6.1 D = 148.09 Az = 338.3 (NEIS) PKHKPV A 1.7s 97.0nm LmH B 22 4.2/um M = 6.1 LmV B 23 4.8/um 6.2	
	LmV	B 21 48.9		
	LmH	B 50.2		

Moxa

Day	Phase	h m s	Remarks
23.	ePKIKP	A 21 10 55	<u>South of Fiji Islands</u> 23.95 S 179.51 E
	ePKHKP	A 11 02	H = 20 52 06.8 h = 521 km MB = 5.0
	ePKP2	A 11 13.5	D = 151.74 Az = 343.6 (NEIS)
	epPKP	A 13 13	PKHKPV A 1.1s 20.2nm
23.	ePKHKP	A 22 05 57	<u>Tonga Islands</u> 20.72 S 175.17 W H = 21 46 12.0 h = normal MB=5.3 MS=5.4 D = 149.66 Az = 351.4 (NEIS) PKHKPV A 1.6s 24.7nm
23.	eP	A 22 27 03	<u>Tsinghai Province, China</u> 37.00 N 95.74 E H = 22 17 03.9 h = normal MB = 4.8 D = 59.06 Az = 312.4 (NEIS)
24.	ePKHKP	A 00 31 25.5	<u>South of Fiji Islands</u> 21.15 S 175.67 E H = 00 12 46.0 h = 600 km MB = 4.6 D = 148.00 Az = 340.7 (NEIS) PKHKPV A 2.0s 132.0nm
24.	eP	A 04 35 04.5	<u>South of Mariana Islands</u>
	ePKKP	A 50 49.5	12.55 N 144.26 E
	LmH	B 05 17.9	H = 04 21 05.8 h = 79 km MB = 5.9
	LmV	B 24.5	D = 104.75 Az = 331.0 (NEIS)
			PV A 1.7s 24.2nm M = 5.9 PKKPV A 1.6 27.5nm LmH B 20 3.1/um LmV B 14 1.2/um
24.	eP	AB 14 26 04.5	<u>Nepal</u> 27.73 N 86.11 E
	eS	B 34 11	H = 14 16 03.1 h = normal MB=5.7 MS=5.7
	eScS	B 35 54	D = 59.49 Az = 314.6 (NEIS)
	LmH	B 54.6	PV A 0.8s 65.4nm M = 5.8
	LmV	B 54.6	LmH B 15.5 10.2/um 6.1 LmV B 15.5 13.0/um 6.2
24.	eP	A 16 27 41.5	<u>Nepal</u> 27.59 N 86.02 E H = 16 17 39.6 h = normal MB = 4.8 D = 59.52 Az = 314.6 (NEIS)

72

March 1974

Moxa

Day	Phase	h m s	Remarks
24.	ePKP	A 19 59(44)	<u>Tonga Islands</u> 17.75 S 174.19 W H = 19 40 14.8 h = 165 km. MB = 4.8 D = 146.86 Az = 353.2 (NEIS) traces
25.	ePKP2	A 04 27 59	<u>Fiji Islands Region</u> 19.35 S 176.23 W H = 04 08 11.0 h = normal MB=5.0 MS=5.2 D = 148.16 Az = 350.5 (NEIS)
25.	eP	A 07 50 10.5	<u>Near Coast of Michoacan, Mexico</u>
	LmH	B 08 36.9	18.18 N 103.33 W
	LmV	B 38.6	H = 07 37 12.3 h = 87 km MB = 4.7 D = 90.92 Az = 35.3 (NEIS) LmH B 14s 1.7/um LmV B 15 2.2/um
25.	ePKIKP	A 12 03 50.5	<u>Solomon Islands</u> 6.70 S 155.14 E H = 11 44 52.3 h = 58 km MB = 5.1 D = 126.72 Az = 331.8 (NEIS)
25.	e	A 19 44 11.5	<u>South Atlantic Ridge</u> 32.48 S 14.18 W H = 19 31 21.3 h = normal MB = 4.7 D = 85.85 Az = 16.1 (NEIS)
25.	eP	A 21 26 07	<u>Burma</u> 17.41 N 94.00 E H = 21 14 44.2 h = normal MB = 4.9 D = 71.95 Az = 318.4 (NEIS)
26.	ePKIKP	A 00 27 38	<u>South of Fiji</u> 24.1 S 179.41 W H = 00 07 47.2 h = 0 km MB = 4.9 D = 152.11 Az = 345 (ISC)
26.	ePKHKP	A 09 36 45	<u>Tonga Islands</u> 19.81 S 173.04 W H = 09 16 58.5 h = normal MB = 4.9 D = 149.01 Az = 354.2 (NEIS) traces
26.	e	A 11 04 40.5	

73

Day	Phase	h m s	Remarks
27.	ePKIKP A	03 27 12.5	<u>Kermadec Islands Region</u> 27.27 S 175.34 W H = 03 07 22.3 h = 44 km MB=5.7 MS=5.0 D = 156.06 Az = 349.1 (NEIS) PKIKPV A 1.3s 17.5nm
27.	ePKP A	16 33 35.5	<u>Tonga Islands</u> 15.68 S 173.67 W H = 16 14 15.8 h = 136 km MB = 4.8 D = 144.86 Az = 354.1 (NEIS) PKPV A 1.4s 14.0nm
27.	eP A	16 40 50	<u>Andreanof Islands, Aleutian Is.</u> 50.11 N 179.66 W H = 16 28 47.3 h = 37 km MB=5.6 MS=4.8 D = 79.16 Az = 352.7 (NEIS) PV A 1.4s 83.6nm M = 5.5
27.	ePKHKP A	17 58 55	<u>South of Tonga</u> 26.9 S 174.6 W H = 17 38 53 D = 155.78 Az = 350 (ISC)
28.	ePKIKP A	02 18 53	<u>Fiji Islands Region</u> 20.38 S 176.96 W H = 01 59 42.4 h = 287 km MB = 5.0 D = 149.05 Az = 349.4 (NEIS)
	ePKHKP A	18 58	
28.	ePKP2 A	05 17 55.5	<u>Norfolk Island Region</u> 27.27 S 170.81 E H = 04 57 50.3 h = normal D = 151.79 Az = 331.4 (NEIS)
28.	eP A	17 38 51	<u>Queen Elizabeth Islands</u> 76.48 N 106.78 W H = 17 30 18.6 h = normal MB = 4.3 D = 47.29 Az = 49.7 (NEIS)
28.	eP A	21 35 49.5	<u>Sicily</u> 37.15 N 14.99 E H = 21 32 35.3 h = normal MB = 4.6 D = 13.71 Az = 350.9 (NEIS) PV A 1.3s 10.9nm M = 4.5 LmH B 18 0.9/um 3.9 LmV B 12 0.4/um

Day	Phase	h m s	Remarks
29.	ePg A	09 20 28.5	<u>Czechoslovakia</u> 35.59 N 13.83 E H = 09 20.0
	eSg A	20 48.5	Explosion yield 8.3 t (PRU) D = 1.41 Az = 273 (ISC)
29.	ePKHKP A	17 05 36.5	<u>Tonga Islands</u> 21.89 S 175.60 W H = 16 45 46.6 h = 68 km MB = 5.0 D = 150.74 Az = 350.6 (NEIS)
29.	eP A	20 53 43	<u>West Pakistan</u> 26.62 N 66.24 E H = 20 45 05.3 h = normal MB = 4.7 D = 47.65 Az = 315.4 (NEIS) PV A 0.9s 15.6nm M = 5.0
29.	-iP aB	22 01 53.5	<u>Kodiak Island Region</u> 57.59 N 153.92 W H = 21 50 35.3 h = 44 km MB=5.7 MS=5.2 D = 71.48 Az = 9.7 (NEIS) h = 38 km PV A 2.0s 384.0nm M = 6.0 PV B 3.2 0.7/um 6.0 LmH C 24 0.9/um 6.0
	epP AB	02 04	
	eS AC	11 10	
	LmH C	32.3	
30.	e A	00 40 29	<u>Western Caucasus</u> 41.5 N 44.3 E H = 00 35 05 h = 33 km MB = 4.0 D = 24.28 Az = 303 (ISC) traces
30.	ePKHKP A	02 10 52	<u>South of Fiji Islands</u> 23.46 S 179.99 E H = 01 52 01.0 h = 572 km MB = 4.7 D = 151.39 Az = 344.5 (NEIS)
30.	eP A	06 34 33	<u>Pakistan</u> 26.70 N 66.51 E H = 06 25 55.4 D = 47.77 Az = 315 (ISC)
30.	eP A	08 35 18	<u>Central Mid-Atlantic Ridge</u> 3.90 N 32.17 W H = 08 25 17.4 h = normal MB = 5.0 D = 59.29 Az = 30.8 (NEIS)

March 1974

Moxa

Day	Phase	h m s	Remarks
30.	eP	A 08 46 10.5	<u>Kurile Islands</u> 43.47 N 146.13 E H = 08 34 14.5 h = 55 km MB = 4.7 D = 78.25 Az = 332.4 (NEIS) traces
30.	eP	A 18 46 28	<u>Iceland Region</u> 63.88 N 23.10 W H = 18 41 26.3 h = normal MB = 4.6 D = 22.61 Az = 109.4 (NEIS)
	e	A 46 38	
	LmV	B 57.9	LmH B 12s 0.6/um M = 4.3
	LmH	B 58.2	LmV B 12.5 0.9/um 4.5
30.	eP	A 19 06 38	<u>Iceland Region</u> 68.3 N 23.2 W H = 19 01 53 h = 0 km D = 22.62 Az = 109 (ISC)
30.	eP	A 19 15 00	<u>Iceland Region</u> 63.78 N 23.37 W H = 19 09 59.6 h = normal MB = 4.4 D = 22.69 Az = 108.9 (NEIS)
	LmV	B 26.5	LmH B 10s 0.5/um M = 4.2
	LmH	B 26.9	LmV B 12 0.7/um 4.4
30.	ePKIKP	A 19 25 50.5	<u>Fiji Islands Region</u> 16.39 S 176.80 E H = 19 06 10.5 h = normal D = 143.81 Az = 344.0 (NEIS)
30.	eP	A 19 38 04	<u>Off East Coast of Honshu, Japan</u> 40.51 N 143.58 E H = 19 25 56.5 h = 38 km MB = 4.7 D = 79.96 Az = 331.3 (NEIS)
30.	eP	A 20 21 37	<u>Iceland Region</u> 63.38 N 23.63 W H = 20 16 36.7 h = normal MB = 4.3 D = 22.68 Az = 107.6 (NEIS)
	LmH	B 33.0	PV A 1.3s 17.5nm M = 4.4
	LmV	B 33.2	LmH B 11.5 0.5/um 4.2 LmV B 12 0.5/um 4.3

March 1974

Moxa

Day	Phase	h m s	Remarks
31.	ePKIKP	A 05 08 02.5	<u>Southern Pacific Ocean</u> 35.98 S 103.18 W H = 04 48 50.2 h = normal MB=5.2 MS=5.2 D = 131.89 Az = 50.9 (NEIS)
31.	ePKP	A 07 06 28	<u>Near N. Coast of West New Guinea</u> 2.19 S 139.08 E H = 06 47 45.0 h = normal MB=5.6 MS=5.6 D = 114.60 Az = 326.2 (NEIS)
	LmV	B 59.2	LmH B 19s 2.0/um M = 5.8
	LmH	B 59.3	LmV B 19 2.8/um 5.9
31.	eP	A 21 21 14	<u>North Atlantic Ocean</u> 17.04 N 26.44 W H = 21 12 57.8 h = normal MB = 4.9 D = 45.24 Az = 33.6 (NEIS) PV A 1.7s 30.3nm M = 4.9
31.	eP	A 21 26 27	<u>Near Coast of Nicaragua</u> 11.80 N 87.89 W H = 21 13 45.8 h = 49 km MB=5.0 MS=4.7 D = 86.92 Az = 39.0 (NEIS) PV A 1.4s 14.0nm M = 5.0 LmH C 18 0.6/um 4.9
	LmH	C 55.3	



APRIL 1974

Moxa

Day	Phase	h	m	s	Remarks
1.	eP LmH LmV	A B B	00 34.4 34.4	26 34 34	<u>Mediterranean Sea</u> 35.56 N 22.44 E H = 00 22 39.8 h = 67 km MB = 4.4 D = 16.99 Az = 335.9 (NEIS) PV A 2.0s 34.2nm M = 4.2 LmH B 14 1.1/um 4.3 LmV B 16 1.1/um 4.3
1.	eP	A	15 46 42		<u>Hokkaido, Japan Region</u> 43.19 N 145.86 E H = 15 34 48.9 h = 84 km MB = 4.5 D = 78.40 Az = 332.3 (NEIS)
1.	ePKIKP e	A A	15 50 35.5 50 51		<u>Tonga Islands</u> 18.56 S 175.39 W H = 15 31 10.7 h = 180 km MB = 4.9 D = 147.50 Az = 351.7 (NEIS) traces
1.	eP e ePP eS LmH LmV	A A A BC B B	22 03 39 03 50.5 07 02 14 18 43.8 50.7		<u>South of Honshu, Japan</u> 30.98 N 141.99 E H = 21 50 49.5 h = 16 km MB=5.3 MS=5.3 D = 87.66 Az = 331.0 (NEIS) PV A 1.6s 35.7nm M = 5.4 PPV A 1.3 21.8nm 5.5 LmH B 15 1.5/um 5.5 LmV B 14 1.7/um 5.6
2.	eP	A	03 36.26.5		<u>Hokkaido, Japan Region</u> 41.25 N 141.64 E H = 03 24 27.4 h = 41 km MB=5.2 MS=5.4 D = 78.60 Az = 330.2 (NEIS) PV A 1.1s 14.1nm M = 4.9
2.	ePKIKP e	A A	04 21 33 21 45		<u>Solomon Islands</u> 6.95 S 155.29 E H = 04 02 33.6 h = 47 km MB=5.4 MS=5.7 D = 127.00 Az = 331.8 (NEIS) PKIKPV A 1.2s 20.3nm
2.	ePKHKP	A	06 22 18		<u>South of Fiji Islands</u> 23.81 S 179.72 E H = 06 03 21.3 h = 504 km MB = 4.3 D = 151.66 Az = 343.9 (NEIS)

April 1974

Moxa

Day	Phase	h	m	s	Remarks
2.	eP	A	08 11 04		<u>Kurile Islands</u> 46.60 N 153.84 E H = 07 59 08.0 h = normal MB = 4.3 D = 77.79 Az = 336.5 (NEIS) traces
2.	epP	A	20 25 24		<u>Near Coast of Guatemala</u> 13.56 N 90.26 W H = 20 12 21.1 h = 91 km MB = 4.6 D = 87.00 Az = 38.6 (NEIS) h = 100 km
3.	e e LmH LmV	A A B B	04 39 51 45 21 05 21.4 23.9		<u>Hokkaido Region</u> 42.55 N 141.38 E H = 04 27 13.3 h = 123 km MB = 4.7 (ISC) D = 77.2 LmH B 21s 1.2/um LmV B 24 1.4/um
3.	LmH	C	23 41.0		<u>South of the Marianas</u> 13.07 N 143.36 E H = 04 22 31 h = 204 km (ISC) D = 104.0 LmH C 22s 0.35/um
4.	eP e	A A	04 28 02 29 51		<u>Tadzhik SSR</u> 39.20 N 71.73 E H = 04 20 01.8 h = 21 km MB = 5.1 D = 42.95 Az = 305.9 (NEIS) PV A 1.0s 11.8nm M = 4.6
4.	LmH LmV	B B	06 28.5 28.5		LmV B 20s 0.5/um
4.	eP	A	07 49 09		<u>Honshu, Japan</u> 37.72 N 140.77 E H = 07 37 02.6 h = 97 km MB = 5.3 D = 81.31 Az = 330.0 (NEIS) PV A 1.4s 32.6nm M = 5.0
4.	eP e	A A	15 00 57.5 01 04.5		<u>South Atlantic Ridge</u> 12.65 S 14.07 W H = 14 50 06.1 h = normal MB = 5.2 D = 66.91 Az = 17.5 (NEIS) PV A 2.0s 47.0nm M = 5.2

April 1974

Moxa

Day	Phase	h m s	Remarks
4.	ePKHKP A	18 38 30.5	<u>Fiji Islands Region</u> 20.89 S 178.67 W H = 18 19 47.4 h = 584 km MB = 4.4 D = 149.21 Az = 347.2 (NEIS)
5.	eP A	03 57 31.5	<u>Burma</u> 21.33 N 93.54 E H = 03 46 30.1 h = 49 km MB = 5.0 D = 68.76 Az = 317.4 (NEIS) PV A 1.0s 11.8nm M = 4.8
5.	eP A	05 04 31.5	<u>North Atlantic Ridge</u> 28.65 N 43.61 W H = 04 56 05.1 h = 33 km MB = 4.9 D = 46.61 Az = 46 (ISC) LmH B 17s 0.45/um M = 4.5 LmV B 18 0.55/um 4.7
5.	eP A	08 04 03.5	<u>Taiwan Region</u> 22.15 N 121.30 E H = 07 51 33.4 h = 58 km MB = 4.7 D = 84.82 Az = 323.0 (NEIS) PV A 1.3s 15.3nm M = 4.9
5.	ePKP A	12 02 22	<u>Tonga Islands</u> 17.43 S 174.27 W H = 11 42 48.1 h = 79 km MB = 4.8 D = 146.53 Az = 353.2 (NEIS) PKPV traces
6.	+eiP A	02 05 24	<u>Alaska Peninsula</u> 55.10 N 160.44 W H = 01 53 47.3 h = 27 km MB=5.7 MS=5.1 D = 74.41 Az = 5.2 (NEIS) h = 58 km PV A 0.9s 347.0nm M = 6.4 LmH C 30 0.9/um 4.9 LmV C 22 0.35/um 4.6
6.	epP BC	05 40	
	eS C	14 52	
	LmH C	32.5	
	LmV C	37.3	
6.	ePKIKP A	02 31 11	<u>New Hebrides Islands</u> 14.61 S 166.84 E H = 02 11 40.3 h = 8 km MB=5.3 MS=5.2 D = 138.84 Az = 336.1 (NEIS)
6.	e(PKS) A	34 53	
6.	eP A	02 38 56.5	<u>Alaska Peninsula</u> 55.34 N 160.60 W H = 02 27 21.8 h = normal MB = 4.3 D = 74.19 Az = 5.1 (NEIS)

April 1974

Moxa

Day	Phase	h m s	Remarks
6.	eP A	02 47 02.5	<u>North Atlantic Ridge</u> 49.91 N 29.01 W H = 02 41 32.2 h = normal MB = 4.7 D = 25.75 Az = 72.6 (NEIS) PV A 1.3s 19.7nm M = 4.5
6.	ePKIKP A	03 02 53	<u>New Hebrides Islands</u> 14.61 S 166.69 E H = 02 43 25.2 h = 16 km MB=5.4 MS=5.2 D = 138.78 Az = 336.0 (NEIS) PKIKPV A 1.9s 37.9nm LmH C 20 0.6/um M = 5.3 LmV C 20 0.3/um 5.0
	e(PKS) A	06 33	
	LmH C	04 06.0	
	LmV C	06.0	
6.	ePKIKP A	04 03 12	<u>New Hebrides Islands</u> 14.59 S 166.81 E H = 03 43 46.2 h = 19 km MB = 5.2 (NEIS) D = 138.81
6.	+iP AB	04 07 37	<u>Alaska Peninsula</u> 55.12 N 160.44 W H = 03 56 01.8 h = 40 km MB=6.0 MS=5.3 D = 74.40 Az = 5.2 (NEIS) h = 44 km PV A 0.9s 642.0nm M = 6.6 LmH B 20.5 1.0/um 5.1 LmV B 18 0.6/um 5.0
	epP A	07 48	
	esP AB	07 53.5	
	eS C	17 00	
	LmH B	43.4	
	LmV B	47.6	
6.	eP A	05 23 44.5	<u>Kodiak Island Region</u> 57.80 N 153.50 W H = 05 12 26.4 h = 53 km MB = 4.6 D = 71.23 Az = 9.9 (NEIS) h = 46 km
	epP A	23 53.5	
6.	ePKHKP A	06 19 56.5	<u>Fiji Islands Region</u> 20.36 S 178.18 W H = 06 01 11.4 h = 579 km MB = 4.7 D = 148.80 Az = 347.9 (NEIS) PKHKPV A 1.6s 41.2nm
6.	ePKIKP A	08 10 49	<u>New Hebrides Islands</u> 14.66 S 166.72 E H = 07 51 21.2 h = 18 km MB=5.3 MS=5.2 D = 138.84 Az = 336.0 (NEIS) PKIKPV A 1.3s 13.1nm LmH C 21 0.4/um M = 5.1 LmV C 21 0.5/um 5.2
	LmH C	09 05.2	
	LmV C	05.5	

April 1974

Moxa

Day	Phase	h m s	Remarks
6.	ePKP2 e	A A 12 37 09 37 17	<u>Auckland Islands Region</u> 49.14 S 164.67 E H = 12 16 18.5 h = 12 km D = 162.60 Az = 285 (ISC) PKP2V A 2.0s 34.2nm
6.	-eP LmH LmV	A B B 20 27 43.5 48.5 48.6	<u>Tadzhik SSR</u> 37.05 N 72.49 E H = 20 19 36.9 h = 84 km MB = 5.2 D = 44.72 Az = 307.8 (NEIS) PV A 1.8s 60.8nm M = 5.1 LmH B 14.5 0.5 $\mu$ m LmV B 11 0.8 $\mu$ m
6.	eP	A 22 19 09	<u>Kurile Islands</u> 43.43 N 146.29 E H = 22 07 13.5 h = 53 km MB = 4.9 D = 78.34 Az = 332.5 (NEIS) PV A 1.3s 13.1nm M = 4.7
7.	e(P)	A 01 00 37.5	<u>Algeria</u> 36 1/2 N 4.1 E H = 00 57 00 (BCIS) D = 15.23
7.	ePKP2	A 03 35 36.5	<u>Kermadec Islands Region</u> 27.39 S 177.69 W H = 03 15 32.9 h = 170 km MB = 5.2 D = 155.72 Az = 345.5 (NEIS) traces
7.	eP	A 06 13 52.5	<u>Kurile Islands</u> 46.79 N 153.64 E H = 06 01 56.6 h = normal MB = 4.5 D = 77.56 Az = 336.3 (NEIS)
7.	eP eS LmH LmV	ABC B B B 14 27 02.5 30 38 35.5 35.6	<u>Crete</u> 34.75 N 24.70 E H = 14 22 47.1 h = 29 km MB=4.7 MS=5.0 D = 18.52 Az = 333.0 (NEIS) PV B 6s 0.6 $\mu$ m M = 4.9 LmH B 13.5 5.1 $\mu$ m 5.0 LmV B 12 6.1 $\mu$ m 5.3

82

April 1974

Moxa

Day	Phase	h m s	Remarks
7.	eP	A 16 16 08	<u>West Pakistan</u> 32.04 N 69.73 E H = 16 07 45.8 h = 44 km MB = 4.8 D = 46.15 Az = 311.4 (NEIS)
8.	eP	A 00 12 29.5	<u>Albania</u> 40.57 N 19.83 E H = 00 09 42.2 h = 19 km MB = 3.2 D = 11.60 Az = 333.1 (NEIS)
8.	eP e	A A 07 30 39 30 48	<u>Costa Rica</u> 9.50 N 84.32 W H = 07 17 58.6 h = normal MB = 4.5 D = 86.47 Az = 39.4 (NEIS) PV traces
8.	ePn eSg	A A 08 30 23.5 30 51	<u>Czechoslovakia</u> 50.69 N 14.66 E Explosion yield 14.6 t (PRU) D = 1.94
8.	eP e	A A 17 59 03.5 59 11.5	<u>Southern Sumatra</u> 2.26 S 99.53 E H = 17 46 01.9 h = normal MB = 4.7 D = 90.40 Az = 320.5 (NEIS) PV A traces
8.	e	A 22 18 46	<u>Southern Sumatra</u> 2.13 S 99.71 E H = 22 05 19.6 h = normal MB = 4.3 D = 90.42 Az = 320.5 (NEIS)
9.	eP	A 00 34 10	<u>Greece-Albania Border Region</u> 39.44 N 20.24 E H = 00 31 09.0 h = 44 km MB = 3.1 D = 12.75 Az = 334.4 (NEIS) PV A traces
9.	e	A 04 26 28.5	
9.	eiP	AB 13 23 01.5	<u>Kurile Islands</u> 45.49 N 148.29 E H = 13 11 21.6 h = 139 km MB = 5.5 D = 77.16 Az = 333.4 (NEIS) PV A 1.2s 199.2nm M = 5.7

83

April 1974

Moxa

Day	Phase	h m s	Remarks
9.	eP	A 21 03 05.5	<u>Rat Islands, Aleutian Is.</u> 51.36 N 177.82 E H = 20 51 11.0 h = 37 km MB=4.7 MS=4.7 D = 77.70 Az = 351.1 (NEIS)
10.	eP	A 01 40 11	<u>Fox Islands, Aleutian Is.</u> 52.52 N 168.74 W H = 01 28 15.9 h = 15 km MB = 4.6 D = 77.22 Az = 359.8 (NEIS) PV A 1.1s 16.1nm M = 5.0
10.	eP	AB 22 55 36.5	<u>Guatemala</u> 14.53 N 91.63 W
	esP	A 56 14.5	H = 22 43 00.6 h = 108 km MB = 5.4
	eSKS	BC 23 05 56	D = 87.07 Az = 38.4 (NEIS)
	eSS	BC 11 52	h = 100 km
	LmH	B 34.8	PV A 1.4s 46.5nm M = 5.3
	LmV	B 38.9	LmH B 20 0.9/um LmV B 17 0.6/um
10.	eP	A 23 12 19	<u>Taiwan Region</u> 22.77 N 121.30 E
	LmH	B 55.1	H = 22 59 51.1 h = 53 km MB = 4.9
	LmV	B 55.1	D = 84.33 Az = 323.0 (NEIS) LmH B 17s 1.2/um LmV B 15 1.8/um
11.	eP	A 21 49 48.5	<u>Hokkaido, Japan Region</u> 42.40 N 144.43 E H = 21 37 53.0 h = 75 km MB = 5.3 D = 78.61 Az = 331.5 (NEIS) PV A 1.5s 32.7nm M = 5.0
12.	ePn	A 07 45 33	<u>Czechoslovakia</u> 51.00 N 14.41 E
	eiSg	A 45 52	H = 07 45.0 yield 21 t (KHC) D = 1.81
12.	ePKP	A 12 35 19	<u>New Hebrides Islands</u> 18.64 S 169.22 E H = 12 16 15.3 h = 244 km MB = 5.1 D = 143.43 Az = 336.0 (NEIS) PKPV A 1.3s 28.4nm

April 1974

Moxa

Day	Phase	h m s	Remarks
12.	eP	A 17 58 54	<u>Philippine Sea</u> 14.26 N 134.32 E
	LmH	C 18 45.0	H = 17 45 18.1 h = normal MB=5.5 MS=4.9 D = 98.32 Az = 327.2 (NEIS) PV A 1.1s 16.1nm M = 5.5 LmH C 21 0.4/um 4.9
13.	eP	A 05 11 04.5	<u>Lake Baikal Region</u> 55.74 N 111.04 E H = 05 01 35.6 h = normal MB = 4.9 D = 54.76 Az = 309.7 (NEIS) PV A 1.2s 14.2nm M = 4.9
13.	ePn	A 15 33 35	<u>Poland</u> 50.32 N 18.83 E H = 15 31 20.6 M = 3.0 (WAR) D = 4.62 Az = 277 (ISC)
13.	eP	A 20 20 30.5	<u>Near East Coast of Kamchatka</u>
	e	A 20 44	55.29 N 161.84 E H = 20 09 10.6 h = normal MB=4.8 MS=4.2 D = 71.55 Az = 340.5 (NEIS) PV A 1.4s 20.9nm M = 5.0
14.	eP	A 00 24 09.5	<u>Near East Coast of Kamchatka</u> 55.8 N 161 E H = 00 12 44 h = 0 km MB = 4.4 (NORSAR) D = 72.20 Az = 341 (ISC)
14.	ePKP	A 01 30 56	<u>Loyalty Islands</u> 20.94 S 168.72 E
	eX	A 31 01	H = 01 11 15.1 h = 4 km MB = 4.4
	eY	A 31 07	D = 145.30 Az = 334.2 (NEIS) PKPV A 2.0s 29.9nm XV A 1.3 26.2nm YV A 1.4 46.5nm
14.	eP	A 07 07 31.5	<u>Guatemala</u> 14.71 N 91.31 W
	epP	A 08 02	H = 06 55 01.8 h = 138 km MB = 5.3 D = 86.75 Az = 38.4 (NEIS) h = 122 km PV A 1.6s 41.2nm M = 5.1

April 1974

Moxa

Day	Phase	h m s	Remarks
14.	ePg eSg	A A 07 16 26 17 28	<u>Northern Italy</u> 45.6 N 11.8 E H = 07 14 46 (BCIS) D = 5.07
14.	eP eX eS eSSS LmH LmV	A A C C B B 10 56 08 56 17 11 06 52 17.0 39.6 39.7	<u>Ryukyu Islands</u> 25.99 N 128.49 E H = 10 43 31.2 h = normal MB = 5.1 D = 85.58 Az = 325.3 (NEIS) PV A 2.0s 42.8nm M = 5.3 XV A 2.0 68.4nm LmH B 14 1.5/um 5.5 LmV B 14.5 1.6/um 5.6
14.	e(P)	A 11 34 07	<u>Crete</u> 34.42 N 25.63 E H = 11 29 31.3 h = 2 km MB = 4.2 D = 19.17 Az = 332.0 (NEIS)
14.	eX LmV LmH	A B B 11 51 07 12 34.4 34.5	<u>Ryukyu Islands</u> 25.95 N 128.46 E H = 11 38 21.3 h = normal MB = 5.1 D = 85.60 Az = 325.3 (NEIS) XV A 2.0s 42.8nm LmH B 14.5 1.1/um M = 4.4 LmV B 14 1.4/um 4.5
14.	eP	A 12 06 37.5	<u>Dodecanese Islands</u> 36.38 N 27.06 E H = 12 02 25.3 h = 45 km MB = 4.0 D = 18.08 Az = 326.9 (NEIS)
14.	eP	A 15 53 50.5	<u>Eastern Sibiria</u> 64.20 N 174.00 W H = 15 43 10.56 h = normal MB = 4.5 D = 65.41 Az = 356.1 (NEIS) PV A 1.2s 8.1nm M = 4.7
14.	e(P) LmH LmV	A B B 17 27 26 18 03.3 10.8	<u>Ryukyu Islands</u> 27 N 128 E H = 17 14 46 h = 89 km MB = 4.5 D = 84.49 Az = 325 (ISC) (P)V A 2.0s 29.9nm M = 5.2 LmH B 20 0.5/um 4.9 LmV B 14 0.6/um 5.1

April 1974

Moxa

Day	Phase	h m s	Remarks
14.	ePKP	A 18 44 34.5	<u>Loyalty Islands</u> 20.90 S 168.51 E H = 18 24 58.3 h = normal MB = 5.0 D = 145.19 Az = 334.0 (NEIS) PKPV A 1.8s 30.4nm
14.	ePKP e	A A 19 48 51 49 11.5	<u>Loyalty Islands</u> 20.98 S 168.71 E H = 19 29 13.2 h = 25 km MB = 4.6 D = 145.33 Az = 334.2 (NEIS) PKPV A traces
14.	ePKP	A 22 08 02.5	<u>Loyalty Islands</u> 20.90 S 168.67 E H = 21 48 21.9 h = 4 km MB = 5.4 D = 145.25 Az = 334.2 (NEIS) PKPV A 1.6s 19.2nm
15.	eP LmH LmV	A C C 03 56 36 04 42.3 42.3	<u>Luzon, Philippine Islands</u> 18.91 N 120.83 E H = 03 43 52.4 h = 45 km MB = 5.3 MS=4.8 D = 87.13 Az = 323.0 (NEIS) PV A 1.7s 24.2nm M = 5.2 LmH C 17 1.1/um 5.3
15.	eSn eSg	A A 21 30 26 31 06	<u>Central Italy</u> 43.8 N 13.1 E H = 21 27 22 (BCIS) D = 6.95
15.	ePn ePg eSn eSg LmH LmV	A A A A B B 21 50 43 51 17 51 50 52 37 53.9 53.9	<u>Northern Italy</u> 44.53 N 9.85 E H = 21 49 13.6 h = normal MB = 4.5 D = 6.23 Az = 10.4 (NEIS) LmH B 10s 0.9/um M = 3.6 LmV B 10 1.2/um
16.	ePKP e e	A A A 11 11 09 11 29 11 38.5	<u>Loyalty Islands</u> 20.8 S 168.8 E H = 10 51 34 h = 33 km D = 145.19 Az = 334 (ISC) PKPV A 1.5s 20.1nm

April 1974

Moxa

Day	Phase	h m s	Remarks
16.	eP	A 11 35 45	<u>Mindoro, Philippine Islands</u>
	epP	A 36 13	13.83 N 120.65 E
	esP	A 36 23.5	H = 11 22 52.9 h = 123 km MB = 5.4
	LmH	C 12 13.0	D = 91.06 Az = 323.0 (NEIS) h = 109 PV A 1.7s 51.5nm M = 5.4 LmH C 15 0.3/um
17.	eP	A 00 39 32	<u>North Atlantic Ridge</u> 35.18 N 35.34 W
	ePP	ABC 40 53	H = 00 32 21.4 h = normal MB=5.1 MS=5.0
	eS	BC 45 20	D = 37.04 Az = 50.6 (NEIS)
	LmH	B 52.3	PV A 2.5s 92.2nm M = 5.2
	LmV	B 54.2	SH B 15 1.1/um 5.4 LmH B 14.5 1.5/um 4.9 LmV B 14 1.4/um 5.0
	17.	eP	A 00 51 35.5
epP		A 51 49	H = 00 39 40.7 h = 46 km MB = 4.9 D = 77.90 Az = 356.7 (NEIS) PV A 1.2s 16.3nm M = 4.9
17.	e(Pn)	A 01 33 46	<u>Rumania</u> 45.97 N 21.14 E
	eSn	A 34 53.5	H = 01 31 33.9 h = normal MB = 5.6 (NEIS)
	eiSb	A 35 22	D = 7.88
17.	eP	A 05 57 19	<u>Kurile Islands Region</u> 49.77 N 157.10 E H = 05 45 35.2 h = normal MB = 4.6 D = 75.71 Az = 338.1 (NEIS)
	eP	A 06 27 06	<u>Kurile Islands</u> 49.87 N 156.90 E H = 06 15 22.7 h = normal MB = 4.6 D = 75.57 Az = 338.0 (NEIS)
17.	eP	A 06 29 22	<u>Kurile Islands Region</u> 49.74 N 157.03 E H = 06 17 38.1 h = normal MB = 4.5 (NEIS) D = 75.71 PV A 1.0s 11.8nm M = 4.8

April 1974

Moxa

Day	Phase	h m s	Remarks
17.	eP	A 15 35 30	<u>Molucca Passage</u> 1.52 N 126.24 E H = 15 21 24.3 h = normal MB=5.5 MS=4.3 D = 104.18 Az = 323.3 (NEIS)
	eP	A 15 35 30	<u>Molucca Passage</u> 1.49 N 126.32 E H = 15 21 30.1 h = 86 km MB = 5.3 (ISC) D = 104.3
17.	-eP	AB 18 35 10.5	<u>Red Sea</u> 17.26 N 40.37 E
	eS	B 41 20	H = 18 27 33.7 h = normal MB=5.0 MS=5.1
	eSS	B 44 08	D = 40.47 Az = 331.9 (NEIS)
	LmH	B 56.4	PV A 2.0s 120.0nm M = 5.3
	LmV	B 59.3	SH B 12.5 1.0/um 5.6 LmH B 16 0.6/um 4.6 LmV B 12 0.5/um 4.7
18.	eSg	A 02 29 08.5	<u>France</u> 44.7 N 2.5 E H = 02 24 35 (BCIS) D = 8.59
	ePKP	A 02 59 29	<u>Tonga Islands</u> 16.05 S 174.25 W H = 02 40 09.0 h = 160 km MB = 4.1 D = 145.17 Az = 353.5 (NEIS) PKPV A 1.0s 13.8nm
18.	ePKP	A 08 24 24	<u>Fiji Islands Region</u> 17.72 S 178.30 W H = 08 05 42.8 h = 541 km MB = 5.0 D = 146.20 Az = 348.6 (NEIS) PKPV A 1.5s 15.1nm
18.	eP	A 10 42 36	<u>Off East Coast of Kamchatka</u> 53.90 N 163.56 E H = 10 31 06.2 h = 46 km MB=5.0 MS=4.2 D = 73.20 Az = 341.8 (NEIS) PV A 1.0s 31.5nm M = 5.2

April 1974

Moxa

Day	Phase	h m s	Remarks
18.	ePKP A	14 35 22	<u>Loyalty Islands</u> 20.61 S 168.37 E H = 14 15 47.8 h = normal MB = 4.7 D = 144.86 Az = 334.1 (NEIS) PKPV A 1.8s 33.8nm
18.	ePKP A	16 23 07	<u>Loyalty Islands</u> 20.91 S 168.73 E H = 16 03 30.3 h = normal MB = 5.4 D = 145.29 Az = 334.2 (NEIS) PKPV A 1.6s 22.0nm
18.	ePKIKP LmH A C	20 52 06 21 45.0	<u>West Chile Rise</u> 38.26 S 93.77 W H = 20 33 01.4 h = normal MB=5.1 MS=4.7 D = 127.48 Az = 50.7 (NEIS) PKIKPV A 1.6s 22.0nm LmH C 20 0.3/um M = 5.0
18.	ePKIKP A	20 58 40	<u>West Chile Rise</u> 38.30 S 93.68 W H = 20 39 36.7 h = normal MB=5.2 MS=4.3 D = 127.45 Az = 50.7 (NEIS) PKIKPV A 1.8s 20.3nm
18.	ePKIKP LmH A C	21 25 01.5 22 18.5	<u>West Chile Rise</u> 38.17 S 93.67 W H = 21 05 58.5 h = normal MB=5.5 MS=4.7 D = 127.37 Az = 50.6 (NEIS) PKIKPV A 1.7s 42.5nm
19.	ePKIKP eiPKHKP eiPKP2 ep(PKHKP)AB AB AB AB	07 23 49.5 23 57 24 09 26 14	<u>South of Fiji Islands</u> 24.01 S 178.51 E H = 07 05 09.1 h = 596 km MB = 5.5 D = 151.53 Az = 342.4 (NEIS) PKIKPV A 1.7s 60.6nm PKHKPV A 1.5 151.0nm PKP2V A 1.5 186.0nm
19.	ePn ePg eiSg A A A	08 00 16 00 22 00 42	<u>Czechoslovakia</u> 50.76 N 14.42 E Explosion 18.3 t H = 07 59.7 (PRU) D = 1.79 Az = 267 (ISC)

April 1974

Moxa

Day	Phase	h m s	Remarks
19.	ePKIKP ePKHKP ePKP2 A A A	08 21 55 22 02 22 13.5	<u>South of Fiji Islands</u> 24.11 S 178.67 E H = 08 03 13.3 h = 601 km MB = 5.1 D = 151.67 Az = 342.5 (NEIS) PKIKPV A traces PKHKPV A 1.3s 24.0nm PKP2V A 1.2 32.5nm
19.	e A	22 50 23	<u>North Atlantic Ridge</u> 21.06 N 45.76 W H = 22 41 02.3 h = 33 km MB = 4.1 D = 53.41 Az = 42 (ISC) traces
20.	ePKHKP ePKP2 A A	01 46 49 46 54	<u>Tonga Islands</u> 19.46 S 173.14 W H = 01 27 02.7 h = normal MB = 4.7 D = 148.66 Az = 354.2 (NEIS) traces
20.	ePKHKP A	02 20 45	<u>Loyalty Islands Region</u> 22.07 S 171.85 E H = 02 01 00.7 h = normal MB=5.1 MS=4.8 D = 148.28 Az = 335.8 (NEIS)
20.	ePKP2 LmV LmH A C C	03 29 58 04 56.0 56.4	<u>Loyalty Islands Region</u> 23.04 S 171.78 E H = 03 10 07.9 h = normal MB=5.2 MS=5.4 D = 148.40 Az = 335.6 (NEIS) PKP2V A 2.0s 68.4nm LmH C 18 0.56/um M = 5.3 LmV C 18 0.30/um 5.1
20.	eP ePP A A	04 40 06 43 50.5	<u>Philippine Islands Region</u> 13.75 N 125.07 E H = 04 26 51.5 h = normal MB = 5.1 D = 93.68 Az = 324.2 (NEIS)
20.	e A	05 24 41	
20.	eP A	08 01 11	<u>Nicobar Islands Region</u> 6.97 N 94.73 E H = 07 49 00.5 h = normal MB = 4.6 D = 80.28 Az = 320.1 (NEIS)

April 1974

Moxa

Day	Phase	h m s	Remarks	
20.	ePKP LmV LmH	AB B B	08 46 59 09 56.0 56.8	<u>Loyalty Islands Region</u> 22.84 S 171.86 E H = 08 27 15.4 h = normal MB=5.1 MS=5.5 D = 148.26 Az = 335.9 (NEIS) LmH B 18s 0.7/um M = 5.4 LmV B 19 0.7/um 5.4
20.	ePKP	A	09 58 06	<u>Loyalty Islands Region</u> 22.98 S 171.96 E H = 09 38 18.8 h = normal MB = 4.9 D = 148.42 Az = 335.9 (NEIS) traces
20.	eP	A	16 14 51.5	<u>Hokkaido, Japan Region</u> 42.36 N 142.99 E H = 16 02 58.3 h = 66 km MB = 5.1 D = 78.13 Az = 330.8 (NEIS) PV A 1.0s 19.7nm M = 5.0
21.	ePKHKP	A	01 01 52	<u>Fiji Islands Region</u> 20.06 S 178.36 W H = 00 43 16.58 h = 667 km MB = 4.6 D = 148.47 Az = 347.8 (NEIS) PKHKPV A 1.0s 15.8nm
21.	PKIKP ePKHKP LmH LmV	AB A B B	01 13 13 13 21 02 22.3 22.5	<u>Loyalty Islands Region</u> 22.82 S 171.69 E H = 00 53 30.0 h = normal MB=5.3 MS=5.6 D = 148.17 Az = 335.7 (NEIS) PKIKPV A 1.0s 15.8nm PKHKPV A 2.3 115.8nm LmH B 21 1.3/um M = 5.6 LmV B 20 1.1/um 5.6
21.	eP	A	01 36 42	<u>Kurile Islands</u> 43.50 N 146.70 E H = 01 24 45.2 h = 62 km MB = 4.7 D = 78.41 Az = 332.7 (NEIS)
21.	eP e	A A	02 19 47 19 54.5	<u>Sea of Okhotsk</u> 46.25 N 145.36 E H = 02 08 02.9 h = 28 km MB=5.3 MS=5.5 D = 75.54 Az = 331.6 (NEIS) PV A 1.4s 16.3nm M = 4.9

92

April 1974

Moxa

Day	Phase	h m s	Remarks	
21.	e(P) e(S)	A A	04 03 16 05 22	<u>Southern Italy</u> 39.0 N 17.1 E H = 04 00 08 (BCIS) D = 12.32
21.	ePKHKP	A	05 40 33	<u>Loyalty Islands Region</u> 22.97 S 171.73 E H = 05 20 47.7 h = 47 km MB = 4.7 D = 148.32 Az = 335.6 (NEIS)
21.	ePKP	A	11 53 59	<u>Loyalty Islands Region</u> 22.56 S 171.78 E H = 11 34 18.1 h = 55 km MB = 4.7 D = 147.97 Az = 336.0 (NEIS) traces
21.	eP	A	15 19 22.5	<u>Taiwan Region</u> 25.25 N 122.14 E H = 15 07 20.1 h = 210 km MB = 4.9 D = 82.82 Az = 323.1 (NEIS)
22.	eP LmH LmV	AB B B	00 41 07 01 11.3 19.2	<u>Eastern China</u> 31.65 N 119.17 E H = 00 29 19.8 h = normal MB=5.2 MS=5.5 D = 76.18 Az = 321.3 (NEIS) PV A 2.0s 38.5nm M = 5.1 LmH B 20 2.3/um 5.5 LmV B 14 1.2/um 5.4
22.	ePKP e	A A	01 26 21 26 31	<u>New Hebrides Islands</u> 20.84 S 169.42 E H = 01 06 44.3 h = 22 km MB = 5.2 D = 145.50 Az = 334.9 (NEIS) PKPV A 1.3s 13.1nm
22.	eP	A	01 50 27	<u>Andaman Islands Region</u> 14.17 N 93.98 E H = 01 38 51.6 h = normal MB = 4.9 D = 74.35 Az = 319.1 (NEIS) PV A 1.2s 16.3nm M = 4.9
22.	ePKHKP e	AB A	02 25 07 25 32	<u>Loyalty Islands Region</u> 22.89 S 171.79 E H = 02 05 21.7 h = 38 km MB = 5.2

93



April 1974

Moza

Day	Phase	h m s	Remarks
cont. 22.	LmH LmV	C C	03 34.0 34.0 D = 148.27 Az = 335.8 (NEIS) PKHKPV A 2.2s 43.5nm LmH C 20 0.24/um M = 4.9 LmV C 19 0.39/um 5.2
22.	eP	A	03 24 39.5 <u>Eastern Mediterranean Sea</u> 34.88 N 27.68 E H = 03 20 13.5 h = 65 km MB = 4.4 D = 19.62 Az = 328.3 (NEIS) PV A 1.3s 24.0nm M = 4.3
22.	eP	A	04 34 22 <u>Fox Islands, Aleutian Is.</u> 52.41 N 169.54 W H = 04 22 29.6 h = 43 km MB = 4.2 D = 77.32 Az = 359.2 (NEIS)
22.	eP	A	04 42 53 <u>Fox Islands, Aleutian Is.</u> 52.56 N 169.55 W H = 04 31 00.5 h = 32 km MB = 4.5 D = 77.17 Az = 359.2 (NEIS)
22.	eP epP	A A	07 29 25.5 29 40 <u>Near East Coast of Kamchatka</u> 53.90 N 160.48 E H = 07 18 00.7 h = 46 km MB = 4.6 D = 72.59 Az = 339.8 (NEIS) h = 54 km
22.	eSn	A	12 28 13 <u>Austria</u> 47.29 N 16.71 E H = 12 26 12.0 h = 33 km (ISC) D = 4.7
22.	LmH LmV	C C	14 31.0 31.0 <u>Kurile Islands</u> 50.26 N 156.84 E H = 13 41 51.9 h = 59 km MB = 4.7 (ISC) D = 75.5
22.	eP LmH	A C	15 36(30) 16 03.0 <u>North Atlantic Ridge</u> 15.11 N 45.20 W H = 15 26 41.4 h = normal MB=4.6 MS=4.0

94

April 1974

Moza

Day	Phase	h m s	Remarks
cont. 22.	LmV	C	16 05.0 D = 57.57 Az = 39.1 (NEIS) PV traces LmH C 15s 0.3/um M = 4.5 LmV C 16 0.4/um 4.7
22.	eP e LmV LmH	A A C C	18 02 02 02 50 08.0 08.5 <u>Greece</u> 38.6 N 22.5 E H = 17 58 39 (BCIS) D = 14.33 PV A traces LmH C 20s 0.20/um M = 2.3 LmV C 12 0.47/um
22.	eP	A	21 00 42 <u>Off East Coast of Honshu, Japan</u> 35.54 N 142.31 E H = 20 48 17.2 h = 58 km MB = 4.9 D = 83.82 Az = 331.0 (NEIS)
23.	eP LmH LmV	A C C	17 48 31.5 18 05.3 09.3 <u>Central Mid-Atlantic Ridge</u> 7.39 N 35.34 W H = 17 38 39.6 h = normal MB=4.7 MS=4.3 D = 58.02 Az = 33.3 (NEIS) PV A 1.4s 11.6nm M = 4.8 LmH C 18 0.35/um 4.5
24.	eiPKP	A	01 27 46 <u>Tonga Islands</u> 16.22 S 175.14 W H = 01 08 42.7 h = 306 km MB = 4.8 D = 145.23 Az = 352.4 (NEIS) PKPV A 1.3s 43.7nm
24.	eP e	A A	03 05 04 05 18 <u>Southern Iran</u> 28.15 N 55.38 E H = 02 57 33.6 h = 62 km MB = 4.4 D = 39.83 Az = 316.6 (NEIS) PV A traces
24.	ePg eSg	A A	06 59 26.5 07 00 29 <u>Czechoslovakia</u> 49.9 N 19.0 E H = 06 58 03 h = 0 km D = 4.78 Az = 281 (ISC) PgV A 0.8s 23.1nm

95

April 1974

Moza

Day	Phase	h	m	s	Remarks	
24.	e(Sg)	A	09	02	32.5	<u>Czechoslovakia</u> 50.63 N 15.67 E H = 09 00.7 (KHC) D = 2.58 Az = 272 (ISC)
24.	eP	A	24	08	30.5	<u>Kurile Islands</u> 47.92 N 154.17 E H = 23 56 44.1 h = 57 km MB = 4.9 D = 76.66 Az = 337 (ISC)
25.	eP	A	00	12	56	<u>Uganda</u> 1.00 N 30.09 E
	eSS	C		24	20	H = 00 03 49.1 h = normal MB = 5.0
	LmH	B		37.2		D = 51.90 Az = 345.1 (NEIS)
	LmV	B		39.9		LmH B 17s 0.4/um M = 4.5 LmV B 16 0.4/um 4.6
25.	eP	A	16	01	07	<u>Ryukyu Islands Region</u> 29.82 N 131.85 E H = 15 48 37.2 h = normal MB = 5.0 D = 84.09 Az = 326.4 (NEIS) PV A 1.2s 12.2nm M = 4.9
26.	eP	A	02	30	00	<u>Kurile Islands Region</u> 44.57 N 151.75 E H = 02 17 53 h = 14 km MB = 4.3 D = 79.04 Az = 335 (ISC)
26.	ePg	A	07	22	37	<u>Switzerland</u> 47.67 N 7.10 E
	eSn	A		22	58	H = 07 21 14.2 h = normal
	eSg	A		23	27	D = 4.20 Az = 43.2 (NEIS)
26.	ePg	A	07	26	36	<u>Switzerland</u> 47.12 N 7.90 E
	eSg	A		27	27	H = 07 25 06.7 h = normal D = 4.30 Az = 33.5 (NEIS)
26.	eP	A	18	15	56	<u>Red Sea</u> 17.14 N 40.38 E H = 18 08 16.9 h = normal MB = 4.8 D = 40.58 Az = 331.9 (NEIS)
26.	eP	A	23	08	09	<u>Hindu Kush Region</u> 35.94 N 70.18 E H = 23 00 08.1 h = 80 km MB = 5.0 D = 43.94 Az = 308.5 (NEIS)

April 1974

Moza

Day	Phase	h	m	s	Remarks	
27.	eP	A	06	15	12	<u>Southern Peru</u> 14.96 S 72.21 W
	ePP	A		19	07.5	H = 06 01 47.3 h = 113 km MB = 5.8 D = 97.57 Az = 39.7 (NEIS) traces
27.	ePKP	A	06	37	32	<u>Fiji Islands Region</u> 17.92 S 178.39 W H = 06 18 55.19 h = 579 km MB = 4.5 D = 146.38 Az = 348.5 (NEIS) PKPV A 1.3s 17.5nm
27.	-ePKIKP	AB	07	44	43	<u>South of Tonga Islands</u>
	iPKHKP	A		44	53	26.25 S 175.91 W
	ePKP2	A	08	00	06	H = 07 24 54.0 h = 45 km MB=6.1 MS=5.9
	ePP	B		48	43	D = 154.96 Az = 348.6 (NEIS)
	ePPP	B		52	11	PKIKPV A 3.5s 958.3nm
	e	BC		55	20	PKHKPV B 6 2.5/um
	e	C		59	04	PPV B 8 1.6/um
	LmH	B		58.6		LmH B 18 2.5/um M = 6.0
	LmV	B	09	07.7		LmV B 17 3.3/um 6.2
27.	eP	A	10	12	20.5	<u>Near East Coast of Kamchatka</u>
	epP	A		12	30.5	55.91 N 162.86 E H = 10 01 02.2 h = 26 km MB=5.0 MS=4.9 D = 71.16 Az = 341.1 (NEIS) h = 33 km PV A 1.2s 24.4nm M = 5.2
27.	ePKHKP	A	10	21	47	<u>South of Fiji Islands</u> 25.14 S 179.79 E H = 10 02 48.1 h = 519 km MB = 4.8 D = 152.95 Az = 343.3 (NEIS)
28.	eP	A	01	00	10	<u>Turkey</u> 36.27 N 31.85 E H = 00 55 32.8 h = normal MB = 4.2 D = 20.46 Az = 320.9 (NEIS) PV A 1.2s 16.3nm M = 4.3

April 1974

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Day	Phase	h m s	Remarks
28.	LmH C	05 00.8	<u>Northern Easter Island Cordillera</u> 3.88 S 104.06 W H = 03 57 49.8 h = 33 km MB = 5.0 (ISC) D = 109.3 LmH C 16s 0.45/um M = 5.1 LmV C 19 0.55/um 5.1
	LmV C	02.0	
28.	ePKHKP A	12 56 12	<u>Fiji Islands Region</u> 20.78 S 177.17 W H = 12 37 00.7 h = 319 km MB = 4.7 D = 149.40 Az = 349.0 (NEIS) PKHKPV A 1.2s 10.2nm
	epPP A	13 01 12.5	
	esPP A	01 49	
	eSKS A	02 38	
28.	ePKHKP A	17 19 51	<u>Loyalty Islands Region</u> 22.97 S 171.77 E H = 17 00 07.5 h = 53 km MB = 4.9 D = 148.34 Az = 336 (ISC) LmV C 19s 0.35/um
	LmV C	18 40.0	
28.	LmH C	20 09.1	LmH C 19s 0.35/um LmV C 19 0.45/um
	LmV C	09.2	
29.	+eP AB	20 10 02.5	<u>United Arab Republic</u> 30.53 N 31.72 E H = 20 04 39.7 h = normal MB = 4.9 D = 25.09 Az = 328.9 (NEIS) PV A 0.9s 62.3nm M = 5.2 LmH C 21 0.35/um 3.8
	LmH C	23.6	
29.	ePKP A	21 13 39	<u>Fiji Region</u> 14.2 S 179.6 W H = 20 54 14 h = 0 km D = 142.50 Az = 348 (ISC)
29.	eP A	22 33 19.5	<u>Colombia</u> 4.75 N 76.15 W H = 22 20 52.2 h = 87 km MB = 5.1 D = 84.94 Az = 39.7 (NEIS) traces
30.	ePKHKP A	19 49 54	<u>Fiji Islands Region</u> 20.29 S 177.92 W H = 19 31 07.4 h = 550 km MB = 4.3 D = 148.78 Az = 348.3 (NEIS) PKHKPV A 1.6s 38.5nm
98			

April 1974

Moxa

Day	Phase	h m s	Remarks
30.	e A	19 59 51	<u>Andreanof Islands, Aleutian Is.</u> 51.10 N 172.73 W H = 19 47 39.8 h = 12 km MB = 4.8 D = 78.57 Az = 357.2 (NEIS)
	e A	59 58.5	
30.	ePKP A	20 15 09	<u>New Hebrides Islands</u> 19.66 S 169.21 E H = 19 55 52.1 h = 158 km MB = 5.0 D = 144.35 Az = 335.4 (NEIS) h = 121 km PKPV A 1.2s 20.3nm
	epPKP A	15 42	

May 1974

Moxa

Day	Phase	h m s	Remarks
1.	ePKHKP ePKP2	A A 05 17 56 18 11	<u>South of Tonga Islands</u> 26.34 S 175.60 W H = 04 57 57.7 h = 44 km MB=5.0 MS=4.5 D = 155.11 Az = 349.0 (NEIS)
1.	LmH	C 13 44.3	<u>South Sandwich Islands Region</u> 58.84 S 25.37 W H = 12 43 49 h = 49 km MB = 5.1 (ISC) D = 113.0 LmH C 24s 0.4 $\mu$ m M = 4.9
1.	eP	A 15 35 21.5	<u>Mariana Islands</u> 18.28 N 145.18 E H = 15 22 24.7 h = 455 km MB = 5.5 D = 100.17 Az = 332.0 (NEIS) PV A 1.8s 47.4nm M = 5.6
1.	ePKIKP ePKHKP ePKP2 epPKP	A A A A 18 54 38 54 46 54 58.5 56 55	<u>South of Fiji Islands</u> 23.85 S 179.85 E H = 18 35 51.2 h = 522 km MB = 4.8 D = 151.73 Az = 344.1 (NEIS) PKIKPV A traces PKHKPV A 1.3s 17.5nm
1.	eP	A 22 07 46.5	<u>Near East Coast of Kamchatka</u> 53.62 N 160.30 E H = 21 56 19.4 h = normal MB = 4.7 D = 72.83 Az = 339.7 (NEIS) PV A 1.1s 10.1nm M = 4.7
2.	eP LmH	A C 04 17 24 56.0	<u>Near East Coast of Honshu, Japan</u> 35.02 N 141.26 E H = 04 04 55.3 h = 42 km MB = 4.8 D = 83.85 Az = 330.5 (NEIS) LmH C 18s 0.7 $\mu$ m M = 5.1
2.	eP	A 05 46 46	<u>Near East Coast of Honshu, Japan</u> 35.14 N 141.38 E H = 05 34 19.5 h = normal MB = 4.6 D = 83.80 Az = 330.5 (NEIS)

100

May 1974

Moxa

Day	Phase	h m s	Remarks
2.	eP LmH	A C 05 48 00.5 06 29.6	<u>Near East Coast of Honshu, Japan</u> 35.25 N 141.30 E H = 05 35 31.8 h = 14 km MB = 4.9 D = 83.67 Az = 330.5 (NEIS) LmH C 16s 0.8nm M = 5.2
2.	ePKHKP ePKP2	A A 17 18 35.5 18 50	<u>South of Fiji Islands</u> 24.24 S 176.20 W H = 16 58 55.9 h = 171 km MB = 4.9 D = 152.95 Az = 349.0 (NEIS) traces
2.	eP LmH LmV	A B B 21 45 08.5 22 23.6 27.5	<u>Near East Coast of Honshu, Japan</u> 35.09 N 141.30 E H = 21 32 41.3 h = normal MB = 5.0 D = 83.80 Az = 330.5 PV A 1.6s 30.2nm M = 5.2 LmH B 16 0.7 $\mu$ m 5.2 LmV B 15 0.3 $\mu$ m 4.9
2.	eP	A 22 47 49.5	<u>Off East Coast of Kamchatka</u> 51.62 N 159.49 E H = 22 36 15.3 h = 59 km MB = 4.6 D = 74.53 Az = 339.4 (NEIS)
3.	e	A 12 41 21	
3.	eP	A 14 09 48	<u>Hindu Kush Region</u> 36.16 N 69.85 E H = 14 01 56.0 h = 153 km MB = 4.6 D = 43.60 Az = 308.3 (NEIS) traces
3.	LmH	C 23 28.7	<u>Near East Coast of Honshu</u> 35.04 N 141.34 E H = 22 35 04.5 h = 41 km MB = 4.4 or H = 22 40 28.4 35.01 N 141.29 E MB = 4.4 (ISC) D = 83.9 LmH C 20s 0.4 $\mu$ m M = 4.3

101

May 1974

Moxa

Day	Phase	h m s	Remarks
4.	ePn	A 00 21 10	<u>Northern Italy</u> 45.9 N 11.6 E
	e	A 21 16	H = 00 19 46 h = 0 km
	e	A 21 49	D = 4.75 Az = 359 (ISC)
	eSn	A 21 55.5	
	e(Sb)	A 22 16.5	
4.	ePKIKP	A 01 37 17	<u>New Britain Region</u> 4.86 S 152.50 E
			H = 01 18 24.8 h = 69 km MB = 5.3
			D = 123.86 Az = 331.1 (NEIS)
			traces
4.	eP	A 07 31 47.5	<u>New Ireland Region</u> 4.70 S 153.21 E
			H = 07 12 54.7 h = 70 km MB = 5.0
			D = 124.05 Az = 331.5 (NEIS)
4.	eP	A 08 13 30	<u>Kodiak Island Region</u> 56.30 N 153.27 W
	e	A 13 38	H = 08 02 00.2 h = 10 km MB = 4.6
			D = 72.69 Az = 10.0 (NEIS)
4.	eP	A 08 58 36	<u>Kodiak Island Region</u> 56.30 N 153.29 W
	e	A 58 44	H = 08 47 04.6 h = 2 km MB = 4.4
			D = 72.69 Az = 10.0 (NEIS)
4.	ePKIKP	A 09 28 50.5	<u>South of Fiji Islands</u> 24.76 S 178.94 E
	ePKHKP	A 28 57.5	H = 09 10 01.9 h = 545 km MB = 5.2
	ePKP2	A 29 10.5	D = 152.36 Az = 342.5 (NEIS)
			PKIKPV A 1.3s 24.0nm
			PKHKPV A 1.3 69.9nm
			PKP2V A 1.4 105.0nm
4.	ePKIKP	AB 13 05 45	<u>New Hebrides Islands Region</u>
	eX	A 05 52.5	13.88 S 172.61 E
	epPKIKP	BC 08 05	H = 12 47 28.3 h = 602 km MB = 5.5
	ePP	BC 08 56	D = 140.21 Az = 341.1 (NEIS)
	eSS	C 26 40	PKIKPV A 1.4s 32.6nm
	eSSS	C 31 50	PKIKPV B 6 1.1/um
	LmH	B 14 02.0	LmH B 16 1.0/um
	LmV	C 02.5	LmV C 19 0.5/um

102

May 1974

Moxa

Day	Phase	h m s	Remarks
4.	eP	A 15 18 02	<u>Algeria</u> 34.89 N 5.05 E
	e	A 18 06	H = 15 14 11.9 h = normal MB = 4.3
	e	A 18 10	D = 16.54 Az = 14.8 (NEIS)
	LmH	C 24.0	LmH C 16s 0.8/um M = 4.0
4.	eP	A 18 06 51	<u>South of Panama</u> 7.71 N 82.63 W
			H = 17 54 07.0 h = normal MB = 5.2
			D = 86.79 Az = 39.5 (NEIS)
			PV A 1.6s 16.5nm M = 5.0
4.	eP	A 22 08 48	<u>Off East Coast of Kamchatka</u>
			51.58 N 159.67 E
			H = 21 57 10.0 h = normal MB = 4.6
			D = 74.61 Az = 339.6 (NEIS)
			PV A 1.0s 9.8nm M = 4.8
5.	eSg	A 04 49 57.5	<u>Poland</u> 50.36 N 18.90 E
			H = 04 47 16.9 M = 3.0 (WAR)
			D = 4.7
5.	eP	A 06 10 09	<u>Taiwan Region</u> 22.30 N 121.49 E
	ePP	A 13 15	H = 05 57 35.1 h = 26 km MB = 5.5
	LmV	B 53.1	D = 84.81 Az = 323.0 (NEIS)
	LmH	B 53.2	PV A 1.3s 56.8nm M = 5.6
			PPV A 1.3 26.2nm 5.6
			LmH B 16 1.7/um 5.5
			LmV B 16 2.3/um 5.7
5.	LmV	B 06 20.3	<u>Algeria</u> 35.04 N 4.53 E
	LmH	B 21.7	H = 06 09 22 h = 53 km MB = 4.3 (ISC)
			D = 16.5
			LmH B 10s 0.7/um
			LmV B 14 0.3/um
5.	ePKIKP	AC 08 37 14	<u>New Hebrides Islands</u> 17.45 S 167.91 E
	ePP	AC 40 26	H = 08 17 50.3 h = 33 km MB = 5.1 MS = 5.6
	LmV	B 09 47.7	D = 141.84 Az = 335.5 (NEIS)
	LmH	B 48.8	LmH B 18.5s 0.7/um M = 5.4
			LmV B 18 0.8/um 5.5

103

May 1974

Moxa

Day	Phase	h m s	Remarks
5.	eP AC	14 31 26.5	<u>Near East Coast of Honshu, Japan</u>
	epP A	31 38	37.74 N 141.71 E
	ePP A	34 27	H = 14 19 12.0 h = 48 km MB = 5.6
	epPP A	34 44	D = 81.67 Az = 330.5 (NEIS)
	LmH B	15 06.2	h = 45 km
	LmV B	12.9	PV A 1.3s 65.5nm M = 5.5 LmH B 16 0.6/um 5.0 LmV B 15 0.7/um 5.2
5.	eP A	19 22 23	<u>Kurile Islands</u> 46.15 N 149.22 E
	epP A	22 54.5	H = 19 10 40.0 h = 143 km MB = 5.1
	esP A	23 15	D = 76.85 Az = 333.8 (NEIS)
	LmH C	55	h = 139 km PV A 1.5s 22.6nm M = 4.7
6.	iPn A	07 51 28	<u>Austria</u> 46.34 N 13.40 E
	ePg A	51 45	H = 07 50 22.1 h = 54 km
	eSg AB	52 41.5	D = 4.47 Az = 345.3 (NEIS)
6.	eX A	10 45 17	<u>Northern Sumatra</u> 3.16 N 96.27 E
	LmH B	11 20.7	H = 10 32 33.8 h = normal MB=4.9 MS=5.2
	LmV B	35.7	D = 84.18 Az = 320.4 (NEIS)
			XV A 1.8s 40.5nm LmH B 18 1.1/um M = 5.3 LmV B 16 0.9/um 5.3
6.	ePKP A	11 57 56	<u>Tonga Islands</u> 15.20 S 173.42 W H = 11 38 19.7 h = 13 km MB=5.7 MS=5.2 D = 144.41 Az = 354.5 (NEIS) PKPV A 1.3s 35.0nm
6.	ePKP2 A	20 35 26	<u>Tonga</u> 19.88 S 174.0 W H = 20 15 31.6 h = 33 km D = 148.98 Az = 353 (ISC) PKP2V A 1.6s 22.0nm

May 1974

Moxa

Day	Phase	h m s	Remarks
6.	LmV B	23 17.3	<u>Northeastern China</u> 40.17 N 119.64 E
	LmH B	17.4	H = 22 31 53.3 h = normal MB = 4.4 D = 69.85 Az = 319.8 (NEIS) LmH B 15.5s 0.6/um M = 5.9 LmV B 16 0.6/um 5.0
7.	e(Sg) A	00 03 28.5	<u>Yugoslavia</u> 46.6 N 15.2 E (VIE) D = 4.68
7.	ePKP A	02 44 49	<u>Fiji Islands Region</u> 16.69 S 177.34 W
	eSS C	03 06 50	H = 02 25 10.8 h = normal MB=5.5 MS=6.0
	LmV B	51.2	D = 145.37 Az = 350.0 (NEIS)
	LmH B	51.3	PKPV A 1.9s 121.0nm PKPV B 4 0.45/um LmH B 19 3.8/um M = 6.1 LmV B 19 3.0/um 6.1
7.	eP1 A	03 14 56	<u>North Atlantic Ridge</u> 12.73 N 44.48 W
	eP2 A	14 59.5	H = 03 04 57.5 h = normal MB=5.2 MS=5.8 D = 58.98 Az = 38.1 (NEIS) P1V A 1.4s 27.9nm M = 5.2 P2V A 1.3 43.6nm 5.4
7.	LmH B	12 40.1	<u>Panama-Costa Rica</u> 8.42 N 82.72 W
	LmV B	40.8	<u>Border Region</u> H = 11 54 36.4 h = 72 km MB = 4.8 (ISC) D = 86.3
7.	eP A	21 15 35	<u>Kurile Islands Region</u> 47.56 N 156.26 E H = 21 03 41.5 h = normal MB = 4.7 D = 77.55 Az = 337.8 (NEIS)
8.	eP A	04 37 56	<u>Central Alaska</u> 63.67 N 150.73 W H = 04 27 13.1 h = 11 km MB = 4.6 D = 65.19 Az = 12.3 (NEIS) PV A 0.8s 13.5nm M = 5.2

May 1974

Moxa

Day	Phase	h	m	s	Remarks	
8.	eP	A	11	10	47.5	<u>Sea of Okhotsk</u> 47.92 N 145.79 E H = 10 59 56.7 h = 453 km MB = 4.1 D = 74.21 Az = 331.7 (NEIS) PV A 1.4s 14.0nm M = 4.4
8.	ePKHKP	A	12	10	59	<u>Fiji Islands Region</u> 17.95 S 178.34 W H = 11 52 26.5 h = 634 km MB = 4.5 D = 146.43 Az = 348.5 (NEIS)
8.	e	A	14	44	50	
8.	eP	A	22	36	42.5	<u>Molucca Passage</u> 2.43 N 126.03 E H = 22 22 48.8 h = 87 km MB = 5.2 D = 103.33 Az = 323.4 (NEIS)
8.	eP	AB	23	45	54.5	<u>Near S. Coast of Honshu, Japan</u> 34.52 N 138.74 E H = 23 33 25.2 h = 2 km MB = 6.0 MS = 6.5 (NEIS) D = 83.24 PV A 1.8s 57.5nm M = 5.5 PmV A 1.8 297.3nm 6.2 PmV B 10 1.9/um 6.3 PPV A 3.0 657.9nm 6.5 PPV B 4 1.5/um 6.4 PPH B 3.7 1.0/um 6.8 SH B 14.3 6.3/um 6.6 LmH B 16.5 110.0/um 7.3 LmV B 13.5 51.2/um 7.1
	Pm	AB		46	19	
	ePP	AB		49	11	
	eS	B		56	18	
	eSS	B	24	01	40	
	LmH	B		23.7		
	LmV	B		27.7		
9.	e	A	13	41	54	<u>Molucca Passage</u> 0.78 N 125.87 E H = 13 27 37.0 h = 18 km MB=5.4 MS=5.3 D = 104.55 Az = 323.2 (NEIS) LmH B 21s 1.2/um M = 5.4 LmV B 20 1.2/um 5.4
	ePP	A		46	09	
	eS	C		53	30	
	LmH	B	14	31.4		
	LmV	B		33.4		

106

May 1974

Moxa

Day	Phase	h	m	s	Remarks	
9.	ePKIKP	AB	16	27	20.5	<u>Loyalty Islands Region</u> 21.76 S 169.75 E H = 16 07 43.0 h = 35 km MB = 5.5 D = 146.45 Az = 334.6 (NEIS) PKIKPV A 1.5s 60.3nm
	ePKHKP	A		27	22.5	
9.	eP	A	17	06	40	<u>Dodecanese Islands</u> 36.60 N 27.64 E H = 17 02 21.7 h = normal MB = 4.5 (NEIS) D = 18.15 Az = 134.53
9.	ePP	C	24	14	12	<u>Prince Edward Islands Region</u> 45.98 S 35.27 E H = 23 56 38.0 h = normal MB=5.7 MS=5.9 D = 98.40 Az = 345.0 (NEIS) PPV C 8s 1.2/um M = 6.3 LmH B 17 8.8/um 6.3 LmV B 18 11.0/um 6.4
	ePPPP	C		18	05	
	eSKS	C		20	55	
	eiPS	C		23	15	
	eSS	C		28	25	
	eSSSS	C		36	00	
	LmV	B		55.2		
	LmH	B		55.3		
10.	ePKIKP	A	02	23	15.5	<u>Kermadec Islands Region</u> 30.72 S 179.55 W H = 02 03 46.1 h = 227 km MB = 5.3 D = 158.42 Az = 340.4 (NEIS) PKIKPV A 1.5s 25.1nm PKP2V A 1.2 95.5nm
	ePKHKP	A		23	28.5	
	iPKP2	A		23	53.5	
10.	eP	A	05	38	12.5	<u>Ryukyu Islands</u> 27.49 N 129.62 E H = 05 25 37.3 h = normal MB = 5.0 D = 84.92 Az = 325.6 (NEIS)
10.	eP	A	06	32	14	<u>Near East Coast of Honshu, Japan</u> 40.20 N 141.44 E H = 06 20 16.3 h = 93 km MB = 4.7 D = 79.42 Az = 330.2 (NEIS)
10.	eP diff	B	08	26	28	<u>Northern Easter I. Cordillera</u> 4.37 S 102.11 W H = 08 12 05.0 h = normal MB=6.1 MS=6.0 D = 108.29 Az = 37.9 (NEIS) LmH B 20s 2.0/um M = 5.7
	ePP	AB		30(55)		
	ePS	C		40	10	
	ePPS	C		41	15	
	e	C		45	32	

107

May 1974

Moxa

Day	Phase	h	m	s	Remarks	
cont. 10.	eSS	C	08	46	15	LmV B 22s 2.5/um M = 5.7
	eSSS	C		50	10	
	LmH	B	09	10.5		
	LmV	B		10.5		
10.	e	A	11	00	44	
	e	A		01	03.5	
10.	eP1	A	19	36	30	<u>Szechwan Province, China</u>
	eP2	AB		36	32	28.24 N 104.02 E
	eS	B	45	48		H = 19 25 15.0 h = 11 km MB=6.2 MS=6.8
	eSS	C	49	56		D = 70.15 Az = 317.4 (NEIS)
	eiSSS	C	53	25		P1V A 1.6s 27.5nm M = 5.2
	LmH	B	20	03.8		P2V A 2.0 200.9nm 6.0
	P'P'	A	04	39		P2V B 5.5 1.6/um 6.4
	LmV	B		12.5		SH B 13 4.6/um 6.5
						LmH B 22 121.0/um 7.1
						P'P'V A 2.8 182.4nm
						LmV B 16 36.4/um 6.8
11.	eP	AC	00	57	48	<u>Molucca Passage</u> 1.74 N 126.38 E
	ePP	C	01	02	08	H = 00 43 44.9 h = normal MB=6.0 MS=6.0
	eSKS	C	08	24		D = 104.08 Az = 323.4 (NEIS)
	eS	C	09	34		PV A 1.6s 49.5nm M = 6.1
	ePS	C	10	56		LmH B 18.5 5.9/um 6.2
	eSS	C	17.5			LmV B 18 6.2/um 6.2
	LmH	B		49.9		
	LmV	B		49.9		
11.	ePKP	A	02	36	55	<u>Fiji Islands Region</u> 17.51 S 176.96 W
						H = 02 18 00.0 h = 418 km MB = 4.8
						D = 146.24 Az = 350.2 (NEIS)
11.	iP	AB	06	27	55.3	<u>Mariana Islands Region</u> 19.74 N 147.27 E
	iPP	AB		32	01	H = 06 14 08.7 h = 6 km MB=6.4 MS=5.9
	eSKS	C	38	40		D = 99.79 Az = 333.2 (NEIS)
	ePS	C	40	52		PV A 1.5s 95.5nm M = 6.1
	eSS	C	46	10		PPV A 1.6 330.0nm 6.5

108

May 1974

Moxa

Day	Phase	h	m	s	Remarks	
cont. 11.	LmH	B	07	09.2	PPH A 1.7s 263.2nm M = 6.6	
	LmV	B		18.3	PPV B 8 2.2/um 6.6	
					LmH B 18 3.8/um 5.9	
					LmV B 16.5 2.9/um 5.9	
11.	eP	A	09	22	46	<u>Iceland</u> 64.95 N 20.93 W
						H = 09 17 49.2 h = 16 km MB = 4.6
						D = 22.14 Az = 114.7 (NEIS)
						PV A 1.5s 35.2nm M = 4.6
11.	LmH	B	14	02.7		
	LmV	B		03.4		
						<u>South Western Atlantic Ocean</u>
						58.15 S 7.17 W
						H = 13 01 05.6 h = 28 km MB = 5.5 (ISC)
						D = 109.6
						LmH B 18s 1.4/um M = 5.6
						LmV B 18 1.8/um 5.7
11.	eP	A	19	22	14	<u>Kodiak Islands Region</u> 56.50 N 153.08 W
						H = 19 10 47.8 h = 27 km MB = 4.9
						D = 72.47 Az = 10.2 (NEIS)
						PV A 0.8s 15.4nm M = 5.1
11.	eP	A	21	07	19	<u>Molucca Passage</u> 1.88 N 126.42 E
	ePP	A		11	37.5	H = 20 53 16.0 h = normal MB=5.5 MS=5.4
	eSKS	C	17	52		D = 104.00 Az = 323.4 (NEIS)
	eS	C	19	00		PV A 1.8s 33.78 nm M = 5.9
	eSP	C	20	36		PPV A 1.6 16.5nm 5.6
	LmH	B		59.3		LmH B 20 1.27/um 5.5
	LmV	B		59.6		LmV B 16 1.06/um 5.5
12.	eP	A	00	24	56	<u>Dodecanese Islands</u> 36.66 N 27.03 E
	e	A		26	05	H = 00 20 56.9 h = 156 km MB = 4.5
	e	A		26	28	D = 17.83 Az = 326.4 (NEIS)
						PV A 1.9s 60.6nm M = 4.6
12.	eP	A	10	19	26	<u>Northern Chile</u> 19.56 S 69.05 W
	ePP	AB		23	24	H = 10 05 55.4 h = 112 km MB = 5.8
	eSKS	B		29	58	D = 99.16 Az = 39.5 (NEIS)

109



May 1974

Moxa

Day	Phase	h	m	s	Remarks
cont. 12.	LmV	B	10	32.4	PPV A 1.8s 60.8nm M = 5.9
	LmH	B		32.7	LmH B 18 0.5/um LmV B 18 0.5/um
12.	LmV	B	13	01.0	<u>Molucca Passage</u> 2.80 N 126.77 E
	LmH	B		01.5	H = 12 00 48.6 h = 33 km MB = 5.3 (ISC) D = 103.5 LmH B 18s 0.5/um M = 5.1 LmV B 20 0.4/um 5.0
12.	iPn	A	19	48 58	<u>Federal Republic of Germany</u>
	iPg	A		49 07	48.27 N 9.10 E
	iSn	A		49 30.5	H = 19 48 13.3 h = 12 km
	eiSg	A		49 45	D = 2.89 Az = 33.6 (NEIS)
13.	eP	A	02	23 57	<u>Leyte, Philippine Islands</u>
					10.08 N 124.12 E H = 02 11 29.7 h = 592 km MB = 5.3 D = 96.08 Az = 323.7 (NEIS) PV A 1.5s 50.3nm M = 5.6
13.	ePKIKP	A	12	12(00)	<u>Solomon Islands</u> 7.30 S 155.50 E
					H = 11 52 55.9 h = 33 km MB = 5.6 MS = 5.4 D = 127.42 Az = 331.8 (NEIS)
13.	+eP	AB	17	48 17.5	<u>Hindu Kush Region</u> 36.47 N 70.91 E
	epP	A		49 02	H = 17 40 28.4 h = 208 km MB = 5.5
	esP	B		49 22	D = 44.08 Az = 308.1 (NEIS)
	ePP	B		51 10	h = 206 km PV A 1.8s 274.0nm M = 5.4 PPV B 10 0.9/um 5.4 LmH B 9.8 0.8/um
13.	eP	A	19	07 57	<u>Southwest of Sumatra</u> 6.67 S 102.65 E
	e	A		08 05	H = 18 54 32.2 h = normal MB = 5.6
	ePP	C		12 05	D = 95.76 Az = 320.2 (NEIS)
	eSKS	C		18 30	PV A 1.8s 23.7nm M = 5.4
	eS	C		19 10	LmH B 16 1.8/um 5.6

110

May 1974

Moxa

Day	Phase	h	m	s	Remarks
cont. 13.	LmH	B	20	03.0	LmV B 14.5s 2.1/um M = 5.8
	LmV	B		03.1	
13.	eP	A	20	16 30	<u>Molucca Passage</u> 2.71 N 126.54 E
					H = 20 02 29.9 h = normal MB = 5.4 D = 103.40 Az = 323.6 (NEIS) PV A traces
14.	ePKIKP	A	06	28 47	<u>Solomon Islands</u> 6.90 S 155.25 E
					H = 06 09 45.0 h = normal MB = 5.3 D = 126.94 Az = 331.8 (NEIS)
14.	e	A	08	35 36	<u>Western Russia</u> , poorly determined
					57.1 N 21.3 E H = 08 32 22 h = 0 km (ISC) D = 8.63
15.	eP	A	00	21 18	<u>Kashmir-Sinkiang Border Region</u>
					36.38 N 76.48 E H = 00 12 46.4 h = 62 km MB = 5.0 D = 47.66 Az = 308.8 (NEIS)
15.	eP	A	04	01 58	<u>India-East Pakistan Border Region</u>
					25.55 N 91.80 E H = 03 51 21.4 h = 32 km MB = 4.5 D = 64.61 Az = 316.0 (NEIS)
15.	eP	A	05	44 50	<u>North Atlantic Ridge</u> 27.41 N 44.23 W
					H = 05 36 12.7 h = normal MB = 4.7 MS = 4.4 D = 47.87 Az = 45.3 (NEIS) PV A traces
15.	ePKP	A	09	51 17	<u>Samoa Islands Region</u> 15.71 S 172.08 W
					H = 09 31 41.9 h = normal MB = 4.8 D = 145.03 Az = 355.9 (NEIS)

111

Day	Phase	h m s	Remarks
15.	eP LmH	A C 10 42 36 58.5	<u>North Atlantic Ridge</u> 27.38 N 44.23 W H = 10 33 58.9 h = normal MB = 5.0 D = 47.89 Az = 45.3 (NEIS) PV A 1.5s 22.6nm M = 5.0 LmH C 20 0.3/um 4.3
15.	eP	A 11 16 45	<u>North Atlantic Ridge</u> 27.34 N 44.43 W H = 11 08 07.3 h = 33 km MB = 4.6 D = 48.04 Az = 45 (ISC) PV A 1.8s 13.5nm M = 4.7
15.	eP	A 13 15 56	<u>Fox Islands, Aleutian Is.</u> 52.41 N 168.82 W H = 13 04 04.1 h = 44 km MB=5.0 MS=4.5 D = 77.32 Az = 359.7 (NEIS) PV A 1.1s 38.3nm M = 5.3
15.	eP LmV LmH	A B B 13 45 49 14 02.6 03.0	<u>North Atlantic Ridge</u> 27.40 N 44.32 W H = 13 37 11.1 h = normal MB=5.0 MS=5.0 D = 47.93 Az = 45.3 (NEIS) LmH B 17.5s 0.5/um M = 4.6 LmV B 17 0.6/um 4.7
15.	eP	A 13 52 49	<u>North Atlantic Ridge</u> 27.37 N 44.37 W H = 13 44 10.5 h = normal MB = 4.6 D = 47.99 Az = 45.3 (NEIS)
15.	eP LmV LmH	A B B 14 07 53 24.8 25.4	<u>North Atlantic Ridge</u> 27.31 N 44.42 W H = 13 59 15.2 h = normal MB=4.9 MS=4.8 D = 48.05 Az = 45.2 (NEIS) PV A traces LmH B 16s 0.3/um M = 4.4 LmV B 20 0.7/um 4.7
15.	+iP ePP ePPP eiS	ABC C C C 19 11 34 14 24 16 36 21 08	<u>Kurile Islands</u> 50.05 N 156.11 E H = 18 59 55.9 h = 56 km MB = 6.1 D = 75.20 Az = 337.5 (NEIS) PV A 2.4s 622.0nm M = 6.1

Day	Phase	h m s	Remarks
cont. 15.	ePS eSS eSSS LmH LmV	C C C B B 19 22 30 26 58 30 00 49.0 49.2	PV B 12s 3.5/um M = 6.2 LmH B 17 38.6/um LmV B 18 34.1/um
15.	eP	A 19 38 09	<u>North Atlantic Ridge</u> 27.40 N 44.43 W H = 19 29 32.3 h = normal MB = 5.2 D = 48.00 Az = 45.3 (NEIS) PV A 1.0s 9.8nm M = 4.8
15.	e	A 20 34 31	<u>Iceland Region</u> 66.4 N 18.3 W H = 20 29 28 h = 0 km MB = 4.0 D = 21.90 Az = 122 (ISC)
15.	eP	A 22 30 17	<u>North Atlantic Ridge</u> 27.35 N 44.28 W H = 22 21 41 h = 44 km MB = 4.7 D = 47.93 Az = 45 (ISC)
16.	+iP ePn e	A A A 03 10 46.5 12 19 12 23	<u>Eastern Kazakh SSR</u> 49.74 N 78.15 E H = 03 02 57.3 h = 0 km MB = 5.3 D = 41.30 Az = 297.8 (NEIS) Underground explosion MB = 6.0 (UPP) PV A 0.8s 42.3nm M = 5.2
16.	ePKP	A 05 38 29.5	<u>New Hebrides</u> 18.50 S 169.03 E H = 05 19 23.9 h = 225 km MB = 4.4 (NEIS) D = 143.23 PKPV A 1.5s 20.1nm
16.	eP eS LmH LmV	AC C C C 15 11 42 15 18 17.0 19.7	<u>Dodecanese Islands</u> 36.0 N 27.2 E H = 15 07 26 (BCIS) D = 18.45 LmV C 10s 0.90/um M = 4.5
16.	-iP ePP LmV	AC AC B 20 12 11.3 15 51 56.4	<u>Bonin Islands Region</u> 27.16 N 140.07 E H = 20 00 01.5 h = 471 km MB = 5.3 D = 90.15 Az = 330.1 (NEIS)

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May 1974

Day	Phase	h m s	Remarks
cont. 16.	LmH B	20 58.5	PV A 2.1s 230.0nm M = 5.7 PPV A 2.0 162.0nm 5.8 LmH B 15.5 0.55/um LmV B 18 0.6/um
16.	eP A	23 20 38	<u>Near Coast of Nicaragua</u>
	eX A	20 58	11.24 N 86.05 W
	ePP A	24 08	H = 23 07 46.6 h = 36 km MB=5.5 MS=5.6
	LmH B	58.2	D = 86.21 Az = 39.2 (NEIS)
	LmV B	58.3	PV A 1.5s 15.1nm M = 5.0 XV A 1.8 43.9nm LmH B 18 4.2/um 5.9 LmV B 18.5 4.9/um 6.0
17.	ePKP A	09 46 52.5	<u>Tonga Islands Region</u> 16.97 S 172.60 W H = 09 27 13.4 h = normal MB = 4.8 D = 146.24 Az = 355.2 (NEIS) PKPV A 1.4s 14.0nm
17.	+eP A	13 53 03	<u>Hindu Kush Region</u> 36.49 N 70.95 E
	epP A	53 50	H = 13 45 13.8 h = 208 km MB = 5.3
	esP A	54 11	D = 44.09 Az = 308.1 (NEIS) h = 219 km PV A 1.5s 78.0nm M = 5.0
17.	+eiP AB	14 32 26	<u>Iceland</u> 64.67 N 21.23 W
	LmH B	41.9	H = 14 27 32.0 h = normal MB=5.0 (NEIS)
	LmV B	44.3	D = 22.14 PV A 1.3s 118.0nm M = 5.2 LmH B 14.5 0.9/um 4.3 LmV B 11 0.8/um 4.5
17.	eP AB	15 35 26.5	<u>Peru</u> 11.17 S 75.08 W
	epP AB	35 54	H = 15 22 07.4 h = 111 km MB = 6.0
	esP C	36 07	D = 96.46 Az = 39.8 (NEIS)
	eSKS B	45 57	h = 108 km
	eiS C	46 40	PV A 2.6s 173.0nm M = 6.1
	eSP C	47 52	pPV A 2.2 283.5nm

114

May 1974

Moxa

Day	Phase	h m s	Remarks
cont. 17.	eSPP C	15 48 40	LmH B 17.5s 0.8/um
	eSS C	53.20	LmV B 18 1.3/um
	LmH B	16 02.4	
	LmV B	03.7	
17.	eP AB	17 24 25	<u>Southwestern Ryukyu Islands</u>
	eS B	34 51	25.14 N 125.56 E
	ePS C	35 50	H = 17 11 50.8 h = 18 km MB=5.8 MS=5.6
	eSSS C	45 00	D = 84.74 Az = 324.2 (NEIS)
	LmH B	18 05.8	PV A 1.8s 155.0nm M = 5.9
	LmV B	07.2	LmH B 14.5 9.7/um 6.3 LmV B 16 11.2/um 6.4
17.	e A	19 53 43	<u>Iran</u> 31.3 N 51.3 E H = 19 46 18 (BCIS) D = 35.11
17.	+eP AB	21 08 35.5	<u>Java</u> 6.51 S 106.84 E
	epP AB	09 09.5	H = 20 55 11.2 h = 131 km MB = 6.0
	ePP B	12 35	D = 98.31 Az = 320.2 (NEIS)
	eSKS B	18 58	h = 130 km
	eS B	19 48	PV A 1.7s 51.5nm M = 5.8
	esS B	20 48	SH B 10 1.8/um 6.3
	LmH B	22 03.3	LmH B 14.5 1.2/um
	LmV B	03.3	LmV B 16 1.2/um
17.	ePKIKP A	23 25 40	<u>South of Fiji Islands</u>
	ePKHKP A	25 48.5	26.12 S 179.54 E
	ePKP2 A	26 03	H = 23 06 44.1 h = 494 km MB = 5.3
	epPKHKP A	27 41.5	D = 153.82 Az = 342.4 (NEIS) h = 487 km PKHKPV 1.4s 14.0nm
18.	eP A	02 44 01	<u>Northern India</u> 26.95 N 71.70 E H = 02 34 55.3 h = 0 km MB = 5.0 D = 50.88 Az = 314.7 (NEIS) Underground explosion (UPP)

115

Day	Phase	h m s	Remarks
18.	eP	A 23 44 49	<u>Iceland</u> 64.69 N 21.16 W
	eS	C 49 00	H = 23 39 56 h = 32 km MB = 4.7
	LmH	C 54.4	D = 22.12 Az = 114 (ISC)
	LmV	C 54.4	PV A 1.4s 32.6nm M = 4.6 LmH C 13.5 0.5/um 4.1 LmV C 14.5 0.6/um 4.3
19.	eP	A 13 21 27	<u>Northern Italy</u> 45.63 N 10.28 E
	ePg	A 21 51	H = 13 20 17.3 h = normal (NEIS)
	eSn	A 22 27	D = 5.10
	eSg	A 22 56	
19.	eP1	AC 22 05 21	<u>Crete</u> 35.49 N 26.33 E
	eiP2	A 05 24	H = 22 01 09.4 h = 83 km MB = 4.9
	eS	C 08 45	D = 18.53 Az = 329.4 (NEIS)
	LmV	B 14.1	P2V A 1.2s 44.6nm M = 4.6
	LmH	B 14.3	LmH B 12 0.5/um LmV B 16 0.7/um
20.	e	A 00 26 13	<u>Off East Coast of Kamchatka</u> 51.37 N 159.70 E H = 00 14 19.7 h = normal MB = 4.6 D = 74.81 Az = 339.6 (NEIS)
20.	ePn	A 04 20 07.5	<u>Federal Republic of Germany</u>
	eSn	A 20 40	49.83 N 7.70 E
	eSg	A 20 50	H = 04 19 25.2 h = 25 km D = 2.64 Az = 70.6 (NEIS)
20.	eP	A 10 50 49	<u>Eastern Gulf of Aden</u> 13.38 N 50.23 E H = 10 42 05.9 h = normal MB = 5.1 D = 48.59 Az = 328.0 (NEIS) PV A 1.7s 27.2nm M = 5.0
20.	eP	A 17 47 50	<u>Southwestern Kashmir</u> 34.58 N 74.28 E H = 17 39 17.9 h = normal MB = 4.9 D = 47.40 Az = 309.8 (NEIS) PV A 1.4s 11.6nm M = 4.7

Day	Phase	h m s	Remarks
21.	ePKIKP	A 05 06 21	<u>Fiji Islands Region</u> 21.21 S 178.74 W
	+iPKHKP	A 06 27	H = 04 47 40.7 h = 571 km MB = 5.2
	+iPKP2	A 06 34.5	D = 149.52 Az = 347.0 (NEIS)
21.	ePn	A 07 43 33.5	<u>Switzerland</u> 47.60 N 7.59 E
	i	A 43 34.2	H = 07 42 34.0 h = 5 km
	iPg	A 43 55	D = 4.04 Az = 39 (ISC)
	iSn	A 44 19.5	
	iSg	A 44 41	
21.	LmH	C 08 56.0	<u>Java</u> 8.61 S 111.21 E
	LmV	C 09 04.0	H = 07 57 10.0 h = 76 km MB = 5.0 (ISC) D = 102.7 LmH C 30s 0.3/um LmV C 20 0.3/um
21.	ePKP	A 10 12 36	<u>Fiji Region</u> 16.4 S 178.5 W H = 09 53 01.1 h = 0 km D = 144.90 Az = 349 (ISC)
21.	LmH	C 12 25.0	LmH C 18s 0.3/um
	LmV	C 25.0	LmV C 17 0.5/um
21.	LmH	C 16 20.0	LmV C 18s 0.3/um
	LmV	C 21.0	
22.	eP	A 07 43 39	<u>Southern Greece</u> 37.62 N 21.55 E H = 07 40 15.2 h = 129 km MB=3.9 (NEIS) D = 14.82 PV A 1.2s 10.2nm M = 4.0
22.	ePKP	A 09 33 35	<u>Tonga Islands</u> 17.40 S 175.22 W
	e	A 33 40.5	H = 09 13 53.0 h = 21 km MB = 4.7 D = 146.39 Az = 352.1 (NEIS) traces

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Day	Phase	h m s	Remarks
22.	e A	15 08 10	<u>Loyalty Islands Region</u> 22.59 S 172.26 E H = 14 48 06.7 h = 71 km MB = 5.2 D = 148.17 Az = 336.4 (NEIS)
23.	ePKP2 LmH LmV	A 07 03 55 C 08 15.5 C 15.5	<u>North of New Zealand</u> 29.84 S 177.07 W H = 06 43 29.6 h = 63 km MB = 4.7 (NEIS) D = 158.22 PKP2V A 1.2s 14.2nm LmH C 22 0.4/um LmV C 21 0.8/um
23.	eP1 eP2	A 11 17 03 A 17 09	<u>North Atlantic Ridge</u> 27.32 N 44.37 W H = 11 08 24.8 h = normal MB=5.1 MS=5.0 D = 48.02 Az = 45.2 (NEIS) P2V A 1.4s 32.6nm M = 5.2
23.	eP	A 13 50 49.5	<u>Southern Nevada</u> 37.06 N 116.07 W H = 13 38 30.2 h = 5 km MB = 4.8 D = 81.29 Az = 30.6 (NEIS) traces
23.	ePKP	A 17 42 53	<u>Fiji Islands Region</u> 18.05 S 177.79 E H = 17 24 02.1 h = 450 km MB = 4.7 D = 146.62 Az = 349.1 (NEIS)
23.	eP e	A 19 53 28 A 55 50	<u>Yugoslavia</u> 43.38 N 17.07 E H = 19 51 30.0 h = normal MB = 4.7 (NEIS) D = 8.17 PV A 1.0s 35.4nm M = 5.4
24.	eP	A 01 33 36.5	<u>Near Coast of Libya</u> 31.4 N 14.4 E H = 01 29 13 h = 0 km MB = 4.4 D = 19.31 Az = 355 (ISC)
24.	eP	A 09 34 04	<u>Off East Coast of Honshu, Japan</u> 33.02 N 141.08 E H = 09 21 25.6 h = 17 km MB = 4.6 (NEIS) D = 85.51 traces

118

May 1974

Moxa

Day	Phase	h m s	Remarks
24.	eP A	20 38 04.5	<u>Near East Coast of Kamchatka</u> 53.08 N 159.81 E H = 20 26 34.9 h = normal MB = 5.0 D = 73.23 Az = 339.5 (NEIS) PV A 1.2s 28.4nm M = 5.1
24.	eP A	21 31 26	<u>Turkey</u> 36.73 N 29.22 E H = 21 27 08.6 h = 37 km D = 18.79 Az = 323 (ISC) PV A 1.3s 10.9nm M = 3.9
25.	ePKHKP A	08 27 30.5	<u>Kermadec Islands Region</u> 28.1 S 175.4 W H = 08 07 18 h = 0 km D = 156.83 Az = 349 (ISC)
25.	eP A	09 43 46	<u>Ryukyu Islands</u> 27.57 N 129.63 E H = 09 31 13.5 h = 52 km MB = 4.8 D = 84.86 Az = 326 (ISC)
25.	eP A	20 18 54	<u>Eastern Greenland</u> 70.97 N 20.94 W H = 20 13 30.0 h = normal MB = 4.7 D = 25.24 Az = 126.5 (NEIS) PV A 1.3s 26.2nm M = 4.7
26.	ePKP e ePP eSS LmH LmV	AB 01 51 40 AB 51 44.5 B 54 52 B 13 24 B 02 48.9 B 03 02.6	<u>New Hebrides Islands</u> 17.70 S 167.75 E H = 01 32 11.2 h = 13 km MB = 5.8 MS=6.0 D = 142.00 Az = 335.3 (NEIS) PKPV A 2.0s 21.4nm LmH B 18 2.7/um M = 6.0 LmV B 18 2.2/um 5.9
26.	ePKIKP ePKHKP ePKP2	A 06 06 17.5 AB 06 22.5 A 06 29	<u>Cook Islands Region</u> 20.76 S 178.50 W H = 05 47 36.9 h = 565 km MB=5.7 (NEIS) D = 149.12 PKIKPV traces PKHKPV A 1.2s 103.7nm PKP2V A 1.3 91.7nm

119

May 1974

Moxa

Day	Phase	h	m	s	Remarks	
26.	ePKP	A	07	35	11	<u>New Hebrides</u> 17.67 S 167.85 E H = 07 15 44.4 h = 27 km MB = 4.7 (NEIS) D = 142.02 PKPV A 1.7s 18.2nm
26.	ePKP	A	11	43	42.5	<u>New Hebrides Islands</u> 17.72 S 167.74 E H = 11 24 14.0 h = 19 km MB = 4.6 D = 142.02 Az = 335.2 (NEIS)
26.	eP	A	13	10	27	<u>Southern Greece</u> 37.52 N 21.13 E H = 13 06 53.3 h = 57 km MB = 4.2 (NEIS) D = 14.78 LmH B 14s 1.6/um M = 4.3 LmV B 12 0.7/um 4.3
27.	eP	AB	04	53	00.5	<u>Kurile Islands</u> 50.83 N 157.35 E H = 04 41 23.6 h = 47 km MB=5.6 MS=5.5 D = 74.78 Az = 338.2 (NEIS) PV A 2.4s 166.0nm M = 5.6 PV B 10 0.86/um 5.7 LmH B 20 5.3/um 5.8 LmV B 20 5.2/um 5.9
27.	eS	B	05	02	32	
	LmH	B		29.5		
	LmV	B		29.6		
27.	eP	A	05	14	03	<u>Guerrero, Mexico</u> 17.30 N 98.96 W H = 05 01 11.3 h = 58 km MB = 5.3 D = 89.16 Az = 36.6 (NEIS) h = 70 km PV A 1.9s 45.5nm M = 5.5
	epP	A		14	13.5	
	ePP	A		17	45	
27.	eP	A	10	50	35	<u>Mindanao, Philippine Islands</u> 8.53 N 123.16 E H = 10 37 05.8 h = 35 km MB = 5.2 D = 96.76 Az = 323.4 (NEIS) PV A 1.9s 19.0nm M = 5.3 LmH B 20 1.3/um 5.4 LmV B 20 1.6/um 5.5
	e	A		50	41	
	e	A		50	51	
	ePP	A		54	35	
	LmH	B		11	39.6	
	LmV	B		39.6		

May 1974

Moxa

Day	Phase	h	m	s	Remarks	
27.	eSg	A	11	25	30	<u>Austria</u> 47.8 N 16.2 E H = 11 23 21 (BCIS) D = 4.10
27.	eP	A	12	28	17	<u>North Atlantic Ridge</u> 15.7 N 46.7 W H = 12 18 24.5 h = 33 km MB = 4.9 (NEIS) D = 58.05
27.	eP	AB	14	12	42	<u>Eastern Alaska to Vancouver Islands</u> 60.33 N 146.02 W H = 14 01 43.5 h = 21 km MB = 5.5 (NEIS) D = 67.92 h = 19 km PV A 1.0s 63.0nm M = 5.7 LmH B 16 0.6/um 4.9 LmV B 16 0.6/um 5.0
	ipP	AB		12	47	
	LmH	B		46.7		
	LmV	B		46.9		
28.	ePKP2	A	03	15	37	<u>Kermadec Islands Region</u> 31.81 S 179.36 E H = 02 55 50.9 h = 450 km MB = 5.0 (NEIS) D = 159.10 PKP2V A 1.4s 55.8nm
29.	eP	A	04	27	15	<u>Carlsberg Ridge</u> 6.31 N 60.65 E H = 04 17 08.9 h = normal MB = 5.1 (NEIS) D = 60.06 PV A 1.8s 20.3nm M = 4.9
29.	e	A	19	27	06	
30.	eP	A	01	11	35.5	<u>Vancouver Island Region</u> 49.06 N 128.39 W H = 00 59 56.1 h = normal MB=4.8 MS=4.2 D = 74.93 Az = 25.1 (NEIS) h = 28 km PV A 1.2s 12.2nm M = 4.8
	epP	A		11	43	
30.	eP	A	01	16	58	<u>Kurile Islands</u> 47.98 N 154.53 E H = 01 05 09.0 h = normal MB = 4.6 (NEIS) D = 76.71

May 1974			Moxa
Day	Phase	h m s	Remarks
30.	eSb	A 01 29 04	<u>Poland</u> 50.33 N 18.83 E H = 01 26 32.5 M = 2.5 (WAR) D = 4.7
30.	e	A 16 55 12	
31.	eP	A 02 08 19	<u>Near East Coast of Kamchatka</u> 53.96 N 159.18 E H = 01 57 03.2 h = 111 km MB = 4.9 (NEIS) D = 72.27
31.	eP LmH LmV	A 03 24 56.5 C 04 02.2 C 02.3	<u>Unimak Island Region</u> 53.60 N 163.82 W H = 03 13 10.7 h = 33 km MB = 4.8 (NEIS) D = 76.01 PV A 1.5s 35.2nm M = 5.2 LmH C 20 0.5/um 4.8 LmV C 21 0.8/um 5.1
31.	+iP ePn ePP	A 03 34 49.0 A 36 20 A 36 26	<u>Eastern Kazakh SSR</u> 49.95 N 78.84 E H = 03 26 57.4 h = 0 km MB = 5.9 D = 41.60 Az = 297.8 (NEIS) Underground explosion MB = 6.9 (UPP) PV A 1.1s 226.0nm M = 5.8 PH A 1.1 136.5nm 5.8 PnV A 0.8 28.8nm PPV A 1.4 55.8nm 5.2
31.	ePKHKP	A 06 28 21.5	<u>West of Tonga</u> 20.35 S 177.95 W H = 06 09 35.6 h = 573 km MB = 4.3 (NEIS) D = 148.83
31.	e	A 08 00 07	<u>Tonga Region</u> 17.3 S 172.4 W H = 07 40 19 h = 53 km D = 146.60 Az = 355 (ISC)
31.	iPn iSn	A 08 00 32.5 A 00 57	<u>Czechoslovakia</u> 51.00 N 14.41 E Explosion H = 08 00.0 yield 13 t (PRU) D = 1.79

May 1974			Moxa
Day	Phase	h m s	Remarks
31.	eP	A 09 22 08	<u>Near East Coast of Kamchatka</u> 52.96 N 160.09 E H = 09 10 37.9 h = normal MB = 5.1 (NEIS) D = 73.40 PV A 1.4s 51.1nm M = 5.2
31.	eP epP	A 11 24 55 A 25 04	<u>Atlantic-Indian Rise</u> 28.10 S 63.44 E H = 11 11 54.3 h = normal MB = 5.4 D = 90.78 Az = 330.0 (NEIS) h = 32 km pPV A 1.4s 27.9nm
31.	eP	A 12 33 55.5	<u>Iceland</u> 65.05 N 20.9 W H = 12 29 00.1 h = 37 km MB = 4.4 D = 22.18 Az = 115 (ISC)
31.	eP ePP eSKS eS eSS LmV LmH	A 14 17 51 A 21(20) C 28 25 C 28 36 C 34 20 B 58.2 B 58.4	<u>Northwestern Mexico</u> 27.23 N 111.24 W H = 14 04 59.9 h = normal MB = 5.3 (NEIS) D = 87.52 PV A 1.7s 33.4nm M = 5.3 LmH B 18 15.9/um 6.5 LmV B 19.5 19.3/um 6.5

June 1974

Moxa

Day	Phase	h m s	Remarks
1.	eP	A 16 10 01	<u>Southern Greece</u> 36.18 N 22.49 E H = 16 07 08.4 h = 39 km MB = 4.5 D = 16.45 Az = 334.9 (NEIS)
1.	eP	A 19 11 41	<u>Near East Coast of Kamchatka</u> 53.55 N 160.37 E H = 19 00 13.9 h = 40 km MB = 4.5 D = 72.90 Az = 339.8 (NEIS)
1.	eP	A 20 28 14	<u>North Atlantic Ocean</u> 55.29 N 35.28 W H = 20 22 23.0 h = normal MB = 4.7 D = 28.19 Az = 79.7 (NEIS) PV A 1.7s 33.4nm M = 4.8 LmH B 15.5 0.6/um 4.3 LmV B 14 0.6/um 4.4
2.	eP	A 04 26 48	<u>Ryukyu Islands</u> 29.24 N 130.50 E H = 04 14 19.8 h = normal MB = 4.7 D = 83.92 Az = 325.9 (NEIS) traces
2.	ePn	A 05 27 50	<u>Adriatic Sea</u> 42 1/4 N 16 1/4 E H = 05 25 34 (BCIS) D = 9.0
	ePg	A 28 25	
	eSg	A 30 18	
2.	eP	A 07 03 11	<u>Mid-Indian Rise</u> 23.96 S 70.06 E H = 06 50 12.3 h = normal MB = 5.1 D = 90.38 Az = 327.1 (NEIS) PV A 1.8s 20.3nm M = 5.1
2.	+ePKP	A 12 37 04	<u>Tonga Islands</u> 16.64 S 172.99 W H = 12 17 22.9 h = 7 km MB = 5.3 MS=5.1 D = 145.88 Az = 354.8 (NEIS) PKPV A 1.6s 115.4nm
2.	LmH	B 16 55.1	<u>Talau Islands</u> 2.68 N 125.28 E H = 15 59 51.4 h = normal

124

June 1974

Moxa

Day	Phase	h m s	Remarks
cont. 2.	LmV	B 17 06.8	MB = 5.4 MS = 5.5 (NEIS) D = 102.6 LmH B 19s 1.9/um M = 5.7 LmV B 19 1.9/um 5.7
2.	ePKHKP	A 22 47 01	<u>South of Fiji Islands</u> 22.91 S 179.79 W H = 22 28 11.5 h = 577 km MB = 4.8 D = 150.92 Az = 345.0 (NEIS)
	ePKP2	A 47 11	
2.	eP	A 23 16 16	<u>Colombia</u> 5.34 N 76.88 W H = 23 03 46.2 h = 64 km MB = 5.2 D = 84.95 Az = 39.7 (NEIS)
3.	e	A 01 27 13	
3.	+ePKP	A 06 34 12.5	<u>Tonga Islands</u> 15.41 S 173.33 W H = 06 14 38.5 h = normal MB=5.4 MS=5.0 D = 144.63 Az = 354.6 (NEIS) PKPV A 1.8s 50.7nm
	LmH	C 07 36.5	
	LmV	C 41.6	
3.	eP	A 11 53 36.5	<u>Afghanistan-USSR Border Region</u> 36.86 N 71.40 E H = 11 45 36.2 h = 100 km MB = 5.3 D = 44.15 Az = 307.8 (NEIS) PV A 1.5s 20.1nm M = 4.7
	ePP	A 55 14.5	
	e(PcP)	A 55 25	
3.	eP	A 23 43 19.5	<u>Tadzhik SSR</u> 39.13 N 71.44 E H = 23 35 25.8 h = 60 km MB = 5.0 D = 42.81 Az = 305.9 (NEIS) PV A 1.3s 10.9nm M = 4.5
	ePP	A 45 06	
4.	ePKP	A 02 38 40	<u>South of Fiji Islands</u> 21 S 177 E H = 02 18 59 MB = 4.1 (NORSAR) D = 148.4
4.	-iPKP	AB 04 33 21	<u>Tonga Islands</u> 15.85 S 175.10 W H = 04 14 15.9 h = 276 km MB = 6.0 D = 144.87 Az = 352.6 (NEIS)
	epPKP	B 34 30	
	esPKP	B 35 00	

125



Day	Phase	h m s	Remarks
cont. 4.	-iPP	B 04 36 41	h = 281 km PKPV A 1.6s 1700.0nm PKPV B 13 9.2/um FPV B 7 4.6/um M = 6.7
4.	eP LmV LmH	A 14 22 09.5 C 26.7 C 29.6	<u>Southern Italy</u> 38.9 N 17.8 E H = 14 19 08 (BCIS) D = 12.64 LmH C 16s 1.1/um M = 4.0 LmV C 22 0.4/um
4.	eP LmV LmH	A 15 24 06 B 47.2 B 47.9	<u>North Atlantic Ridge</u> 10.84 N 42.55 W H = 15 14 03.4 h = normal MB=5.0 MS=5.0 D = 59.32 Az = 36.9 (NEIS) PV A 1.5s 22.6nm M = 5.0 LmH B 17 0.6/um 4.8 LmV B 20 0.7/um 4.9
4.	ePg eSg	A 17 45 24.5 A 45 45.5	D = 1.7
4.	e	A 19 38 27	
4.	e	A 24 00 40	<u>Samoa Region</u> 16.2 S 172.8 W H = 23 40 43.2 h = 33 km D = 145.42 Az = 355 (ISC)
5.	eP LmH LmV	A 00 13 03 B 42.9 B 45.7	<u>Szechwan Province, China</u> 29.38 N 99.46 E H = 00 02 10.8 h = normal MB = 5.1 D = 66.59 Az = 316.1 (NEIS) PV A 1.6s 16.5nm M = 4.9 LmH B 19 0.8/um 5.0 LmV B 15 0.6/um 5.0
5.	e	A 01 15 14	

Day	Phase	h m s	Remarks
5.	ePKIKP	A 02 05 58	<u>New Britain Region</u> 6.59 S 149.16 E H = 01 47 03.6 h = 49 km MB = 5.0 D = 123.68 Az = 328.9 (NEIS)
5.	ePKIKP	A 05 39 26	<u>New Hebrides Islands</u> 14.64 S 167.34 E H = 05 20 16.7 h = 159 km MB = 5.0 (NEIS) D = 139.0
5.	ePKHKP	A 08 37 34.5	<u>Fiji Islands Region</u> 20.69 S 177.74 W H = 08 18 24.9 h = 345 km MB = 4.8 D = 149.20 Az = 348.3 (NEIS) PKHKPV A 1.0s 17.7nm
5.	iPn iSg	A 11 20 52 A 21 13	<u>Czechoslovakia</u> 50.59 N 14.05 E Explosion yield 30.2 t (PRU) D = 1.53
5.	LmH	C 13 08.7	<u>Near East Coast of Honshu</u> 37.00 N 141.78 E H = 12 25 51.8 h = 50 km MB = 4.5 (ISC) D = 82.3 LmH C 24s 0.3/um M = 4.5
5.	ePKP e	A 22 20 25 A 20 35	<u>Tonga Islands</u> 15.04 S 173.79 W H = 22 00 49.2 h = normal MB = 5.0 D = 144.22 Az = 354.1 (NEIS) PKPV A traces
6.	LmH LmV	B 13 10.5 C 15.5	<u>North Eastern China</u> 37.54 N 115.10 E H = 12 30 59 h = 45 km MB = 4.7 (ISC) D = 69.5 LmH B 15s 1.1/um M = 5.1 LmV C 16 2.8/um 5.6
6.	eP epP	A 17 13 41 A 13 52	<u>Kurile Islands</u> 45.00 N 150.76 E H = 17 01 41.9 h = normal MB = 4.9 D = 78.36 Az = 334.8 (NEIS) h = 41 km PV A 1.5s 27.7nm M = 5.1

Day	Phase	h	m	s	Remarks	
6.	ePKIKP	A	17	29	45	<u>Fiji Islands Region</u> 17.83 S 178.58 W H = 17 11 09.0 h = 572 km MB = 4.9 D = 146.26 Az = 348.3 (NEIS) traces
	ePKHKP	A		29	47	
6.	ePS	C	18	45	40	<u>New Ireland Region</u> 2.88 S 149.09 E H = 18 15 33.4 h = 37 km MB=5.3 MS=5.7 D = 120.47 Az = 330.0 (NEIS) LmV B 19 27.0 LmH B 21s 3.2/um M = 5.9 LmH B 27.2 LmV B 21 4.3/um 6.1
	ePPS	C		47	28	
	eSS	C		52	33	
	LmV	B	19	27.0		
6.	eP	A	18	47	47	<u>Carlsberg Ridge</u> 4.24 N 66.54 E H = 18 37 07.7 h = normal MB=5.4 MS=5.5 D = 65.07 Az = 324.9 (NEIS)
6.	+eP	A	19	11	14	<u>Hindu Kush Region</u> 36.38 N 70.73 E H = 19 03 26.0 h = 214 km MB = 5.3 D = 44.02 Az = 308.2 (NEIS) PV A 1.3s 52.5nm M = 4.8
	e	A		13	23	
6.	ePKP	A	20	20	18.5	<u>Tonga Islands</u> 15.24 S 173.47 W H = 20 00 45.0 h = normal MB=5.2 MS=5.2 D = 144.44 Az = 354.4 (NEIS) PKPV A 1.3s 10.9nm
6.	ePKHKP	A	24	04	45.5	<u>Tonga Region</u> 22.2 S 174.2 W H = 23 44 46 h = 0 km D = 151.21 Az = 352 (ISC)
7.	ePKHKP	A	00	41	18	<u>Tonga Region</u> 22.4 S 174.3 W H = 00 21 24 h = 33 km D = 151.40 Az = 352 (ISC)
	ePKP2	A		41	29	
7.	ePKP	AB	07	07	11	<u>Tonga Islands</u> 15.44 S 175.32 W H = 06 47 36.3 h = normal MB=5.2 MS=6.0 D = 144.44 Az = 352.4 (NEIS) PKPV A 2.0s 51.3nm LmH B 22 2.5/um M = 5.9 LmV B 23 3.7/um 6.1
	LmV	B	08	08.5		
	LmH	B		09.2		

Day	Phase	h	m	s	Remarks	
7.	e(Pg)	A	13	40	57	
	e	A		41	14.5	
	e	A		41	33	
	e	A		42	21.5	
7.	e(P)	A	14	49	46	<u>Greece-Albania Border Region</u> 39.07 N 20.40 E H = 14 46 30.3 h = 35 km MB = 4.2 D = 13.14 Az = 334.7 (NEIS) LmH B 14s 1.4/um M = 4.2 LmV B 13 0.8/um
	LmH	B		54.3		
	LmV	B		55.9		
7.	eP	A	18	02	10.5	<u>Aleutian Islands Region</u> 50.93 N 170.63 W H = 17 50 08.8 h = normal MB = 5.0 D = 78.79 Az = 358.5 (NEIS) PV A 1.1s 28.2nm M = 5.2
7.	ePKHKP	A	22	47	52	<u>South of Fiji Islands</u> 24.29 S 177.53 W H = 22 28 26.1 h = 280 km MB = 4.6 D = 152.74 Az = 342.9 (NEIS)
7.	eP	AC	23	01	42	<u>South of Panama</u> 5.66 N 82.58 W H = 22 48 48.5 h = normal MB=5.4 MS=5.9 D = 88.33 Az = 39.4 (NEIS) PV A 2.2s 65.5nm M = 5.6 LmH B 22 5.2/um 5.9 LmV B 21.5 5.2/um 5.9
	e	C		02	31	
	eSKS	C		12	08	
	eS	C		12	28	
	ePS	C		13	20	
	eSS	C		18	20	
	LmV	B		35.6		
8.	ePKHKP	A	12	55	15.5	<u>South of Fiji Islands</u> 24.49 S 179.57 W H = 12 36 15.2 h = 518 km MB = 5.1 D = 152.49 Az = 344.5 (NEIS)
	ePKP2	A		55	26.5	
8.	e(PS)	C	17	46	30	<u>Solomon Islands</u> 7.23 S 155.15 E H = 17 15 25.1 h = 33 km MB=5.1 MS=5.3 D = 127.19 Az = 331.6 (NEIS) LmH B 18s 0.5/um M = 5.1 LmV B 18 0.5/um 5.2
	e(PPS)	C		48	00	
	e(SS)	C		53	32	
	LmH	B	18	35.7		
	LmV	B		35.7		

Day	Phase	h m s	Remarks
9.	eSg A	00 21 18.5	<u>France</u> 45.9 N 6.4 E H = 00 18 05 (BCIS) D = 5.90
9.	ePKP AC LmH B LmV B	03 21 11 04 34.0 41.0	<u>Samoa Islands Region</u> 16.54 S 172.69 W H = 03 01 33.4 h = normal MB=5.1 MS=5.1 D = 145.81 Az = 355.1 (NEIS) PKPV A 2.2s 65.5nm
9.	e A eS C eSS C e C e C LmH B LmV B	10 54 54 11 06 00 12 25 21 00 22 00 50.0 50.0	<u>Near Coast of Northern Peru</u> 5.75 S 80.86 W H = 10 41 22.1 h = 52 km MB = 5.1 D = 95.98 Az = 39.8 (NEIS) PV A 2.0s 30.0nm M = 5.5 LmH B 16 0.35/um LmV B 17 0.4/um
9.	eP AB e A e A ePP A eSKS C eS C ePS C eSS C LmH B LmV B	14 29 27 29 36.5 30 23 33 20 40 10 40 40 42 10 47 00 15 17.5 19.0	<u>Near Coast of Northern Peru</u> 5.75 S 80.98 W H = 14 16 03.7 h = 50 km MB = 5.7 D = 96.05 Az = 39.8 (NEIS) PV A 1.8s 40.5nm M = 5.7 LmH B 17 0.8/um 6.3 LmV B 17 0.9/um 6.3
10.	eP A	04 28 05	<u>Morocco</u> 33.61 N 3.79 W H = 04 23 28.6 h = 39 km MB = 4.3 D = 20.43 Az = 29.0 (NEIS)
10.	eP A	07 47 19	<u>Off Coast of Northern California</u> 40.45 N 125.08 W H = 07 35 00.5 h = 22 km MB = 4.8 D = 81.68 Az = 26.2 (NEIS)

Day	Phase	h m s	Remarks
10.	eP A	09 08 35.5	<u>Kurile Islands</u> 46.79 N 152.79 E H = 08 56 43.0 h = normal MB = 4.6 D = 77.32 Az = 335.9 (NEIS) PV A 1.0s 7.9nm M = 4.7
10.	eP A	10 26 41	<u>North Atlantic Ridge</u> 44.73 N 28.31 W H = 10 20 58.2 h = normal MB = 4.3 D = 27.27 Az = 63.1 (NEIS) traces
10.	ePg A eSg A	11 52 52 53 13.5	<u>Czechoslovakia</u> 50.3 N 14.4 E H = 11 52 22 h = 0 km D = 1.78 Az = 281 (ISC)
10.	eP A	14 46 04	<u>Alaska Peninsula</u> 54.77 N 161.65 W H = 14 34 22.3 h = 11 km MB = 4.8 D = 74.81 Az = 4.4 (NEIS) PV A 1.2s 18.6nm M = 5.0
10.	e(sPKP) A e(PP) A	19 23 20.5 25 28	<u>New Hebrides</u> 15.82 S 167.91 E H = 19 02 58.6 h = 182 km MB = 5.3 (ISC) D = 140.3
11.	eP A	02 11 09	<u>Eastern Mediterranean Sea</u> 34.63 N 28.51 E H = 02 06 33.9 h = 43 km MB = 4.1 D = 20.18 Az = 327.6 (NEIS)
11.	e A	18 04 59	traces
11.	eP A	20 32 37	<u>Andreanof Islands, Aleutian Is.</u> 51.82 N 173.53 W H = 20 20 45.0 h = 58 km MB = 4.8 D = 77.72 Az = 356.6 (NEIS) PV A 0.8s 7.7nm
11.	ePKP2 A e A e A	22 35 45 35 48 36 06.5	<u>Kermadec Islands</u> 29.92 S 178.46 W H = 22 15 12.5 h = 16 km MB = 4.7 (NEIS) D = 157.9

Day	Phase	h	m	s	Remarks
cont. 11.	LmH LmV	B	23	58.3 58.5	PKP2V A 1.4s 16.3nm LmH B 20 0.8/um M = 5.4 LmV B 19 0.6/um 5.4
12.	eP e	A	10	25 16 25 36	<u>Jordan-Syria Region</u> 34.04 N 37.69 E H = 10 19 51.1 h = normal MB = 4.6 D = 25.24 Az = 319.0 (NEIS) PV A 1.6s 44.0nm M = 4.8
12.	LmH LmV	B	14	43.2 43.4	<u>Near Coast of Guerrero, Mexico</u> 16.77 N 99.26 W H = 13 46 40.8 h = 43 km MB = 4.9 (ISC) D = 89.8 LmH B 16s 0.3/um M = 4.6 LmV B 14 0.3/um 4.8
12.	eP LmH LmV	A B B	16	13 55 23.4 25.7	<u>Iceland</u> 64.88 N 20.82 W H = 16 08 58.7 h = 16 km MB = 4.8 D = 22.07 Az = 114.7 (NEIS) PV A 1.6s 44.0nm M = 4.6 LmH B 14.5 0.7/um 4.2 LmV B 11.5 0.7/um 4.5
12.	eP +i eS eSKS eiSS LmH LmV	AB A B C C B B	16	37 12.5 37 14.5 46 39 47 14 51 20 17 05.5 05.6	<u>Near Coast of Venezuela</u> 10.56 N 63.38 W H = 16 25 47.6 h = 34 km MB=5.7 MS=6.1 D = 72.39 Az = 40.2 (NEIS) PV A 3.0s 579.0nm M = 6.1 PV B 8 1.20/um 6.0 LmH B 20.5 7.8/um 6.0 LmV B 21 8.1/um 6.0
12.	eP	A	16	58 25.5	<u>Fox Islands, Aleutian Is.</u> 52.44 N 170.20 W H = 16 46 34.4 h = 46 km MB = 5.2 D = 77.28 Az = 358.8 (NEIS) PV A 1.1s 24.2nm M = 5.1

Day	Phase	h	m	s	Remarks
12.	e(P)	A	17	19 52	<u>South Burma</u> 15.4 N 95.0 E H = 17 07 52 h = 33 km MB = 4.2 D = 74.69 Az = 319 (ISC)
12.	eP eS LmH LmV	AB C B B	18	00 04.5 04 15 09.4 09.7	<u>Iceland</u> 64.77 N 21.05 W H = 17 55 08.7 h = 13 km MB=5.5 MS=5.3 D = 22.11 Az = 114.1 (NEIS) PV A 1.5s 262.0nm M = 5.5 SH C 15 12.5/um 6.0 LmH B 13.7 8.1/um 5.3 LmV B 15 7.2/um 5.4
12.	ePKP	A	22	24 42	<u>Fiji Islands Region</u> 17.82 S 178.43 W H = 22 06 00.0 h = 555 km MB = 4.8 D = 146.28 Az = 348.5 (NEIS)
13.	ePP	A	04	24 26	<u>Strait of Gibraltar</u> 36.88 N 4.08 W H = 04 20 06.3 h = 51 km MB = 4.1 D = 17.78 Az = 34.3 (NEIS) PPV A 1.6s 13.7nm
13.	eP	A	07	15 57	<u>Turkey</u> 37.7 N 32.8 E H = 07 11 23 h = 0 km D = 19.85 Az = 317 (ISC)
13.	eP	A	13	45 12	<u>Iceland</u> 64.97 N 22.0 W H = 13 40 08.1 h = 0 km MB = 4.3 D = 22.57 Az = 113 (ISC) PV A 1.2s 8.1nm
14.	ePn iSg	A A	11	41 12 41 32.8	<u>Czechoslovakia</u> 50.58 N 14.0 E Explosion yield 22.5 t H = 11 40.7 (PRU) D = 1.52
14.	ePKP	A	13	43 32.5	<u>Scotia Sea</u> 60.65 S 37.60 W H = 13 24 40.9 h = normal MB=5.4 MS=5.6 D = 117.79 Az = 33.0 (NEIS) PKPV A 1.0s 11.8nm

Day	Phase	h m s	Remarks
14.	ePKHKP A	18 58 03.5	<u>South of Fiji Islands</u> 22.09 S 179.69 W H = 18 39 18.8 h = 603 km MB = 5.1 D = 150.15 Az = 345.5 (NEIS)
15.	eP A	00 57 19	<u>Eastern Caucasus</u> 42.94 N 45.21 E
	e A	01 02 08	H = 00 52 05.9 h = 45 km MB = 4.7
	ePcS B	04 30	D = 24.09 Az = 300.4 (NEIS)
	LmH B	08.2	PV A 2.0s 68.5nm M = 4.8
	LmV B	08.9	LmH B 15 0.55/um 4.2 LmV B 14 0.55/um 4.3
15.	e A	02 49 13.5	<u>Rat Islands, Aleutian Is.</u>
	epP A	49 25.5	52.26 N 178.79 E
	e AB	49 32	H = 02 37 13.8 h = 157 km MB = 5.7 D = 76.90 Az = 351.7 (NEIS) PV A 1.7s 84.8nm M = 5.2
15.	eP A	03 41 29	<u>Eastern Gulf of Aden</u> 13.72 N 50.47 E H = 03 32 48.1 h = normal MB = 5.2 D = 48.43 Az = 327.7 (NEIS) PV A 2.0s 51.3nm M = 5.2
15.	+eP AB	07 14 10	<u>Szechwan Province, China</u>
	eS C	23 20	28.27 N 103.95 E
	LmH B	41.5	H = 07 03 00.2 h = 39 km MB=5.5 MS=5.3
	LmV B	46.8	D = 70.10 Az = 317.4 (NEIS) PV A 2.2s 65.5nm M = 5.3 PV B 4.5 0.4/um 5.7 LmH B 21 2.0/um 5.3 LmV B 16 0.7/um 5.1
15.	eP A	10 30 12.5	<u>Szechwan Province, China</u> 31.76 N 100.09 E H = 10 19 29.2 h = normal MB = 4.9 D = 65.27 Az = 315.5 (NEIS) PV A 1.9s 22.8nm M = 4.9

Day	Phase	h m s	Remarks
15.	eP A	14 38 46	<u>Szechwan Province, China</u> 28.33 N 104.00 E H = 14 27 29.3 h = 10 km MB = 5.2 D = 70.08 Az = 317.4 (NEIS) PV A 2.2s 32.7nm M = 5.1
15.	eSg A	17 44 37	<u>France</u> 45.9 N 6.9 E H = 17 41 39 (BCIS) D = 5.74
16.	ePKHKP A	13 37 22	<u>Fiji Islands Region</u> 19.66 S 178.54 W H = 13 18 46.0 h = 647 km MB = 4.4 D = 148.05 Az = 347.8 (NEIS) PKHKPV A 1.0s 11.81nm
17.	eP A	02 12 36.5	<u>Kurile Islands</u> 48.42 N 154.12 E H = 02 00 50.0 h = normal MB = 4.6 D = 76.19 Az = 336.5 (NEIS) PV A 0.8s 11.5nm M = 4.9
17.	eP A	02 30 16.5	<u>Kurile Islands</u> 48.23 N 154.35 E
	LmH C	59.5	H = 02 18 29.5 h = normal MB=5.1 MS=4.3 D = 76.43 Az = 336.6 (NEIS) PV A 1.8s 33.8nm M = 5.1
17.	eP A	06 09 14.5	<u>Southern Sinkiang Province</u>
	LmH B	32.6	40.55 N 89.6 E
	LmV B	32.7	H = 05 59 52.5 h = 0 km MB = 4.5 D = 53.13 Az = 309 (ISC) Probably atmospheric explosion (UPP) LmH B 13s 0.35/um M = 4.6 LmV B 15 0.45/um 4.7
17.	eP A	07 29 57	<u>Iran</u> 33.66 N 57.01 E H = 07 22 49.1 h = 35 km MB = 4.8 D = 37.03 Az = 311.2 (NEIS)

Day	Phase	h	m	s	Remarks	
17.	eP	A	16	48	36	<u>Hokkaido, Japan Region</u> 41.34 N 142.47 E H = 16 36 37.9 h = 60 km MB = 5.0 D = 78.82 Az = 330.6 (NEIS) PV A 1.2s 12.2nm M = 4.7
17.	eP	A	19	28	51.5	<u>Southern Italy</u> 38.70 N 17.77 E H = 19 25 52.8 h = normal MB = 3.8 D = 12.72 Az = 341.9 (NEIS) PV A 1.4s 9.3nm M = 4.5 LmH B 16 0.5/um 3.6 LmV B 15 0.3/um
17.	ePg	A	21	27	18	<u>Austria</u> 47.1 N 10.6 E H = 21 26 08 (BCIS) D = 3.59
	eSg	A		28	03	
18.	eP	A	08	29	25	<u>Greece</u> 38.54 N 20.42 E H = 08 26 12.9 h = normal MB=4.8 MS=4.4 D = 13.62 Az = 335.6 (NEIS) PV A 0.8s 13.5nm M = 4.9 LmH B 12.5 1.7/um 4.3 LmV B 12 1.6/um
	LmH	B		36.0		
	LmV	B		36.1		
18.	ePKHKP	A	08	50	39	<u>South of Fiji Islands</u> 24.79 S 179.86 E H = 08 31 38.4 h = 506 km MB = 5.0 D = 152.64 Az = 343.6 (NEIS)
	ePKP2	A		50	51.5	
19.	eP	A	03	08	30.5	<u>Atlantic-Indian Rise</u> 33.42 S 56.88 E H = 02 55 19.7 h = normal MB=5.0 MS=6.6 D = 92.74 Az = 333.1 (NEIS) PV A traces XV A 1.5s 15.1nm LmH B 18 1.2/um M = 5.4 LmV B 12.5 0.4/um 5.1
	X	A		08	45	
	LmH	B		46.0		
	LmV	B		50.0		
19.	eP	A	03	19	59	<u>Eastern Siberia</u> 63.16 N 150.85 E H = 03 09 38.0 h = normal MB=5.0 MS=4.8 D = 62.09 Az = 331.9 (NEIS) PV A 0.9s 15.6nm M = 5.1

Day	Phase	h	m	s	Remarks	
19.	eP	A	11	46	56	<u>Unimak Island Region</u> 53.82 N 163.43 W H = 11 35 11.7 h = normal MB = 4.7 D = 75.82 Az = 3.2 (NEIS) PV A 1.1s 16.1nm M = 5.0
19.	eP	A	16	12	18.5	<u>Southern Nevada</u> 37.20 N 116.19 W H = 15 59 59.9 h = 5 km MB = 5.0 D = 81.22 Az = 30.6 (NEIS) PV A 1.2s 12.2nm M = 4.8 Probably underground explosion
19.	eP	A	19	34	01	<u>Off Coast of Northern California</u> 41.93 N 126.78 W H = 19 21 48.9 h = normal MB=4.9 MS=4.2 D = 80.90 Az = 25.3 (NEIS) PV A 2.0s 21.4nm M = 4.8
20.	ePKIKP	A	06	54	42.5	<u>South of Fiji Islands</u>
	ePKHKP	A		54	51	26.04 S 179.27 E H = 06 35 52.7 h = 540 km MB = 5.3 D = 153.67 Az = 342.1 (NEIS)
20.	iPn	A	09	30	23.2	<u>Yugoslavia</u> 44.35 N 17.71 E H = 09 28 33.4 h = normal MB = 5.1 D = 7.53 Az = 328.9 (NEIS) PV A 1.0s 82.7nm M = 5.7 LmH B 11 1.7/um 4.0 LmV B 13 1.6/um
	eSn	A		32	07	
	LmH	B		32.9		
	LmV	B		33.6		
20.	iPn	A	17	09	46.1	<u>Yugoslavia</u> 45.97 N 15.53 E H = 17 08 27.3 h = 47 km MB = 4.5 D = 5.36 Az = 332.3 (NEIS) LmH B 7s 16.6/um M = 4.9
	iPg	A		10	07	
	eiSn	AB		11	04	
	eSg	AB		11	32	
	LmH	B		11.7		
20.	e	A	18	36	30	

Day	Phase	h	m	s	Remarks	
20.	+ePn	AB	22	27	49.5	<u>Yugoslavia</u> 46.09 N 15.48 E H = 22 26 31.8 h = normal MB = 4.4
	eSn	A	28	46		D = 5.24 Az = 332.0 (NEIS)
	eSg	A	29	10		LmH B 6.8s 5.1/um M = 4.4
	LmH	B	29	5		LmV B 4.0 1.2/um
	LmV	B	29	5		
21.	eSg	A	01	03	05	<u>Poland</u> 50.28 N 18.85 E H = 01 00 33.9 M = 2.9 (WAR) D = 4.65
21.	eP	A	08	52	20	<u>North Atlantic Ocean</u> 57.84 N 32.63 W H = 08 46 45.0 h = normal MB=4.8 MS=4.4
	LmH	B	09	03	2	D = 26.43 Az = 86.5 (NEIS)
	LmV	B	03	4		PV A 1.5s 20.1nm M = 4.5
						LmH B 14.8 1.0/um 5.5
						LmV B 14.5 1.2/um 5.7
21.	eP	A	16	12	31	<u>Western Gulf of Aden</u> 12.81 N 46.84 E H = 16 03 57.2 h = normal MB = 4.5 D = 47.38 Az = 330.1 (NEIS) PV A 1.3s 13.1nm M = 4.8
21.	eP	A	21	06	32.5	<u>East of Lake Baikal</u> 56.50 N 117.26 E H = 20 56 48.7 h = normal MB=5.3 MS=4.5
	LmH	B	33	3		D = 56.87 Az = 312.9 (NEIS)
	LmV	B	36	3		PV A 1.4s 41.9nm M = 5.3
						LmH B 13 0.6/um 4.9
						LmV B 11 0.4/um 4.9
22.	eSg	A	01	49	48	<u>Yugoslavia</u> 46.2 N 15.5 E H = 01 47 09 (BCIS) D = 5.15
22.	ePKIKP	A	07	30	33	<u>Kermadec Islands Region</u> 27.66 S 178.02 W H = 07 10 58.3 h = 164 km MB = 5.2
	ePKP2	A	31	00	5	D = 155.90 Az = 344.9 (NEIS) PKIKPV A traces

Day	Phase	h	m	s	Remarks	
22.	ePKIKP	AB	08	31	53.5	<u>Easter Island Region</u> 22.07 S 113.59 W H = 08 12 47.5 h = normal MB=5.9 MS=5.7
	ePP	AB	33	58		D = 128.94 Az = 42.0 (NEIS)
	ePKS	B	35	18		PKIKPV A 2.0s 128.0nm
	LmH	B	09	28	8	LmH B 17.5 1.2/um M = 5.6
	LmV	B	29	0		LmV B 18 1.6/um 5.8
22.	ePKHKP	A	10	19	42	<u>Tonga Islands</u> 20.80 S 174.45 W H = 09 59 53.0 h = normal MB=5.1 MS=4.9 D = 149.83 Az = 352.3 (NEIS) PKHKPV A 1.1s 20.2nm
22.	eP	A	10	41	58	<u>Near East Coast of Honshu, Japan</u> 39.97 N 142.81 E H = 10 29 50.8 h = 40 km MB = 5.2 D = 80.15 Az = 330.9 (NEIS) PV A 1.3s 21.8nm M = 5.0
22.	eP	A	19	34	57	<u>Mariana Islands</u> 18.80 N 146.04 E H = 19 21 21.5 h = 103 km MB = 5.1 D = 100.09 Az = 332.5 (NEIS) PV A traces
	ePP	A	39	04		PPV A 1.5s 25.1nm M = 5.6
22.	eP	A	23	33	09.5	<u>Greece-Bulgaria Border Region</u> 41.26 N 23.03 E H = 23 30 15.0 h = normal MB=5.1 MS=4.4 D = 12.28 Az = 323.7 (NEIS)
	e	A	33	13		P1V A 1.4s 23.3nm M = 5.1
	e	A	23	33		P2V A 1.8 57.5nm 5.4
	LmH	B	37	4		LmH B 9.7 2.4/um 4.5
	LmV	B	38	4		LmV B 12 3.0/um
23.	eP	A	05	26	45	<u>Fox Islands, Aleutian Is.</u> 52.54 N 169.03 W H = 05 14 53.8 h = 42 km MB = 5.0 MS=4.3 D = 77.19 Az = 359.6 (NEIS) PV A 1.0s 19.7nm M = 5.1

Day	Phase	h m s	Remarks
23.	ePKHKP A	06 31 48	<u>Fiji Islands Region</u> 20.67 S 178.22 W H = 06 12 53.9 h = 490 km MB = 4.4 D = 149.10 Az = 347.8 (NEIS) PKHKPV A 1.7s 18.2nm
23.	ePKIKP A	06 39 48.5	<u>Solomon Islands</u> 7.01 S 155.84 E H = 06 20 50.3 h = 70 km MB = 5.5 D = 127.31 Az = 332.1 (NEIS) PKIKPV A 1.2s 44.7nm
23.	eP A	09 48 01.5	<u>Honshu, Japan</u> 39.70 N 141.35 E H = 09 36 00.7 h = 87 km MB = 4.4 D = 79.83 Az = 330.2 (NEIS) traces
23.	ePKIKP A	14 47 57.5	<u>New Guinea</u> 4.17 S 142.55 E H = 14 29 21.8 h = 107 km MB = 5.4 D = 118.14 Az = 326.9 (NEIS)
24.	eP A	15 24 58	<u>Republic of South Africa</u> 26.27 S 27.26 E H = 15 12 57.8 h = 16 km MB = 5.0 D = 77.81 Az = 349.9 (NEIS) traces
24.	eP A epP A ePP A eS B	19 13 28 14 57 16 43 23 17	<u>South of Honshu, Japan</u> 32.81 N 136.99 E H = 19 01 40.0 h = 393 km MB = 5.3 D = 83.95 Az = 328.5 (NEIS) h = 393 km PV A 1.4s 18.6nm M = 4.6
24.	ePKiPK A ePP AB eSKKS B ePS B ePKKP A LmH B	20 53 35 53 39 21 00 36 03 08 04 06 33.6	<u>South Sandwich Islands Region</u> 55.83 S 27.45 W H = 20 34 35.4 h = 80 km MB=6.0 (NEIS) D = 110.9 PKiKPV A 1.9s 53.0nm PPV A 1.8 64.2nm M = 5.8

Day	Phase	h m s	Remarks
cont. 24.	LmV B	21 33.6	PKKPV A 1.2s 12.2nm LmH B 23.5 3.0/um LmV B 22 2.5/um
24.	ePKIKP A LmH B LmV B	21 53 52 22 44.9 47.3	<u>Near North Coast of New Guinea</u> 2.28 S 141.07 E H = 21 35 09.8 h = normal MB=5.7 MS=5.6 D = 115.77 Az = 326.9 (NEIS) LmH B 21s 2.0/um M = 5.7 LmV B 18 1.7/um 5.7
25.	eP A	03 57 26	<u>Hokkaido, Japan Region</u> 44.50 N 144.55 E H = 03 45 54.1 h = 189 km MB = 4.7 D = 76.80 Az = 331.4 (NEIS)
25.	eP A	04 04 46.5	<u>Eastern Kazakh SSR</u> 49.89 N 78.12 E H = 03 56 57.6 h = 0 km MB = 4.7 D = 41.21 Az = 297.6 (NEIS) Underground explosion (UPP) PV A 0.7s 15.3nm M = 4.8
25.	eP A	05 13 51	<u>Near Coast of Oaxaca, Mexico</u> 15.48 N 95.38 W H = 05 00 58.9 h = 25 km MB=5.3 MS=4.9 D = 88.56 Az = 37.5 (NEIS)
25.	ePKIKP A e(PKHKP) A ePP A LmH B LmV B	05 25 12 25 21 29 27 06 31.4 31.4	<u>South Pacific Cordillera</u> 54.64 S 131.62 W H = 05 05 19.0 h = normal MB=6.1 MS=5.7 D = 157.51 Az = 85.0 (NEIS) PKIKPV A 1.8s 40.5nm PKHKPV A 1.8 74.3nm LmH B 20 0.7/um M = 5.4 LmV B 20 1.3/um 5.8
25.	eP A eS B	08 57 38 09 08 35	<u>Near Coast of Oaxaca, Mexico</u> 15.44 N 95.47 W



Day	Phase	h m s	Remarks
cont. 25.	LmH B LmV B	09 38.9 38.9	H = 08 44 45.3 h = 30 km MB=5.6 MS=5.0 D = 88.64 Az = 37.5 (NEIS) PV A 1.7s 39.4nm M = 5.5 LmH B 18 0.97/um 5.3 LmV B 18 1.15/um 5.4
25.	ePKP A	16 49 40	<u>Tonga Islands</u> 16.05 S 173.27 W H = 16 30 04.4 h = normal MB = 4.6 D = 145.26 Az = 354.5 (NEIS) traces
25.	eP1 AB eP2 A ePP B eSKS B eS B ePS B LmH B LmV B	17 36 02 36 07 40 04 46 36 47 40 49 00 18 20.6 28.2	<u>South Indian Ocean</u> 26.09 S 84.28 E H = 17 22 19.3 h = normal MB=6.2 MS=6.6 D = 99.60 Az = 321.9 (NEIS) P1V A traces P2V A 2.6s 138.7nm M = 6.4 LmH B 20 10.4/um 6.3 LmV B 18.5 8.7/um 6.3
25.	eP A	17 52 26	<u>Off East Coast of Honshu, Japan</u> 34.43 N 141.80 E H = 17 39 50.0 h = 9 km MB = 5.0 D = 84.58 Az = 330.8 (NEIS)
25.	eP1 AB eiP2 AB eS1 B eS2 B LmH B LmV B	22 28 25 28 30 32 20 32 30 38.5 38.9	<u>Iceland</u> 64.60 N 17.65 W H = 22 23 46.2 h = normal MB=5.1 MS=5.2 D = 20.73 Az = 118.4 (NEIS) P1V A 1.5s 201.0nm M = 5.3 P2V A 1.8 307.4nm 5.4 S1H B 5.5 1.4/um 5.3 S2H B 8 2.6/um 5.4 LmH B 17 3.2/um 4.8 LmV B 14 3.5/um 5.0
26.	eP A	01 27 29	<u>Svalbard Region</u> 76.13 N 9.3 E H = 01 21 58.1 h = 0 km MB = 4.3 D = 25.60 Az = 177 (ISC) PV A 1.4s 18.6nm M = 4.5

Day	Phase	h m s	Remarks
26.	ePKIKP A eSS C eSSS C LmH B LmV B	14 02 42.5 22 30 26 50 59.0 15 00.5	<u>Southern Pacific Ocean</u> 36.56 S 98.20 W H = 13 43 35.3 h = normal MB=5.4 MS=5.6 D = 129.13 Az = 50.5 (NEIS) LmH B 20s 0.6/um M = 5.3 LmV B 20 0.6/um 5.3
26.	eP A	14 29 31	<u>Turkey</u> 36.60 N 34.44 E H = 14 24 37.7 h = normal MB = 4.0 D = 21.57 Az = 317.8 (NEIS)
26.	eP A LmH B LmV B	18 53 28 19 17.0 17.0	<u>North Atlantic Ridge</u> 10.68 N 43.95 W H = 18 43 16.5 h = normal MB = 4.7 D = 60.28 Az = 37.2 (NEIS) LmH B 18s 0.6/um M = 4.7 LmV B 18 0.6/um 4.9
26.	eP A	19 04 26	<u>North Atlantic Ridge</u> 10.96 N 43.33 W H = 18 54 17.9 h = normal MB=4.7 MS=4.8 D = 59.68 Az = 37.1 (NEIS)
26.	ePKIKP A ePKHKP A ePKP2 A	23 52 14.5 52 21 52 33	<u>South of Fiji Islands</u> 23.86 S 179.23 E H = 23 33 28.7 h = 551 km MB = 5.4 D = 151.58 Az = 343.3 (NEIS) PKIKPV A 1.6s 44.0nm PKHKPV A 1.2 89.4nm PKP2V A 1.4 51.1nm
27.	eP1 AB eP2 AB ePP1 A ePP2 AB eS B eSS B LmH B LmV B	02 01 39.5 01 46 04 54 05 02 12 02 16 22 40.2 46.9	<u>South of Honshu, Japan</u> 33.79 N 139.20 E H = 01 49 08.1 h = 16 km MB=5.7 MS=5.9 D = 84.06 Az = 329.5 (NEIS) P1V A 1.8s 87.8nm M = 5.7 P2V A 1.6 236.3nm 6.2 P2V B 4.5 1.2/um 6.4 SH B 12 2.2/um 6.1 LmH B 16.5 24.2/um 6.7 LmV B 15 13.7/um 6.5

Day	Phase	h m s	Remarks
27.	ePKP A	02 08 50	<u>Fiji Islands Region</u> 18.12 S 177.85 W H = 01 50 11.2 h = 591 km MB = 4.8 D = 146.68 Az = 349.0 (NEIS)
27.	eP AB	05 01 34	<u>Shikoku, Japan</u> 32.26 N 132.17 E H = 04 49 15.5 h = 39 km MB = 5.0 D = 82.22 Az = 326.4 (NEIS) h = 38 km PV A 3.0s 131.6nm M = 5.4 pPV A 2.7 76.7nm LmH B 15 3.3/um 5.8 LmV B 15 3.2/um 5.8
27.	epP AB	01 45	
	LmV B	42.4	
	LmH B	42.5	
27.	+iPKIKP AB	08 05 03.5	<u>New Britain Region</u> 4.72 S 152.51 E H = 07-46 11.9 h = 70 km MB = 6.1 D = 123.74 Az = 331.1 (NEIS) h = 65 km PKIKPV A 1.7s 78.8nm LmH B 20 1.8/um LmV B 22 1.9/um
	epPKIKP A	05 22	
	e(PKKS) A	18 52	
	LmH B	59.7	
	LmV B	59.7	
27.	ePKP2 A	17 08 32.5	<u>South of Kermadec Islands</u> 33.28 S 178.45 W H = 16 47 51.20 h = normal MB = 4.9 MS = 5.3 (NEIS) D = 161.2 PKP2V A 1.2s 12.2nm
27.	eP A	18 56 36	<u>Central Mid-Atlantic Ridge</u> 1.52 N 30.84 W H = 18 46 25.7 h = normal MB=5.4 MS=4.9 D = 60.67 Az = 29.5 (NEIS) PV A 1.6s 22.0nm M = 5.0
27.	eP A	19 04 24	<u>Andaman Islands Region</u> 10.50 N 92.79 E H = 18 52 36.2 h = normal MB = 5.3 D = 76.36 Az = 319.7 (NEIS) PV A 1.2s 34.6nm M = 5.3

Day	Phase	h m s	Remarks
27.	eP A	23 01 18	<u>Central Mid-Atlantic Ridge</u> 1.69 N 30.84 W H = 22 51 09.2 h = normal MB=5.3 MS=5.0 D = 60.52 Az = 29.6 (NEIS) PV A 1.4s 27.9nm M = 5.2
28.	ePKP2 A	02 31 22	<u>South of Kermadec Islands</u> 33.43 S 178.91 W H = 02 10 46.09 h = 61 km MB = 5.0 (NEIS) D = 161.2
28.	ePKP2 A	02 53 30	<u>South of Kermadec Islands</u> 33.28 S 178.52 W H = 02 32 50.26 h = 38 km MB = 5.0 (NEIS) D = 161.1 PKP2V A 1.6s 16.5nm
28.	ePn A	05 30 23.5	<u>Hesse, Fed. Rep. of Germany</u> 51.58 N 7.79 E H = 05 29 39.5 h = 1 km D = 2.59 Az = 109.7 (NEIS) PnV A 0.7s 23.0nm
	ePg A	30 29	
	eSg A	31 03	
28.	eP1 A	11 13 09	<u>Algeria</u> 36.59 N 5.27 E H = 11 09 40.3 h = normal MB=5.0 MS=4.8 D = 14.78 Az = 16.0 (NEIS) P1V A 1.5s 17.6nm M = 4.3 P2V A 1.4 74.5nm 4.9 P2H A 1.5 64.4nm 4.9 LmH B 17.5 1.6/um 4.2 LmV B 9 1.2/um
	eP2 AB	13 15	
	eSS B	16 10	
	LmH B	18.1	
	LmV B	21.8	
29.	eP AB	01 10 30	<u>Algeria</u> 36.67 N 5.19 E H = 01 06 58.6 h = normal MB=4.7 MS=4.5 D = 14.72 Az = 16.3 (NEIS) PV A 1.4s 32.6nm M = 4.6 PH A 1.5 30.7nm 4.6 LmH B 15 1.6/um 4.3 LmV B 9 1.6/um
	eSS B	13 34	
	LmH B	17.3	
	LmV B	19.2	

Day	Phase	h m s	Remarks
29.	e	A 01 39 32	
29.	eP	A 21 50 11	<u>Off East Coast of Kamchatka</u> 52.00 N 161.23 E H = 21 38 32.9 h = 29 km MB = 4.6 D = 74.54 Az = 340.5 (NEIS) traces
29.	e	A 22 35 02	<u>Southern Italy</u> 39.65 N 18.66 E H = 22 32 00.7 h = normal MB = 4.0 D = 12.06 Az = 338.1 (NEIS)
	LmH	B 39.2	LmH B 14s 0.38/um M = 3.53
30.	ePKHKP	A 08 53 08	<u>New Hebrides Islands</u> 17.99 S 168.29 E H = 08 33 46.5 h = 61 km MB = 5.7 D = 142.48 Az = 335.5 (NEIS)
	ePKIKP	A 53 10.5	
	LmH	B 09 56.2	PKIKPV A 1.6s 49.5nm LmH B 22 1.4/um LmV B 22 1.1/um
	LmV	B 56.2	
30.	eP	A 17 21 39	<u>Malagasy Republic</u> 13.55 S 48.78 E H = 17 10 15.0 h = normal MB=4.5 MS=5.4 D = 71.70 Az = 336.1 (NEIS)
30.	ePKIKP	A 18 14 45	<u>Solomon Islands</u> 7.12 S 155.75 E H = 17.55 44.4 h = 53 km MB = 5.3 D = 127.37 Az = 332.0 (NEIS) PKIKPV A 1.3s 21.8nm
30.	eP	A 18 36 29.5	<u>Near East Coast of Kamchatka</u> 53.92 N 160.80 E H = 18 25 03.9 h = normal MB = 4.8 D = 72.64 Az = 340.0 (NEIS) PV A 1.0s 15.7nm M = 5.0
30.	ePg	A 19 07 33	<u>Northern Italy</u> 44.15 N 10.68 E H = 19 05 23.8 h = normal MB = 4.3 D = 6.54 Az = 5.3 (NEIS)
	eSn	A 08 08	
	eSg	A 08 52.5	

Day	Phase	h m s	Remarks
1.	ePn	A 01 27 37.5	<u>France</u> 49.42 N 6.03 E H = 01 26 38.0 h = 0 km MB = 4.3 D = 3.80 Az = 69.0 (NEIS)
	ePg	A 27 51	
	ei	A 28 27.0	PnV A 1.2s 16.3nm M = 4.7
	eiSg	A 28 49.0	
1.	eP	A 05 18 09	<u>Greenland Sea</u> 79.86 N 1.15 W H = 05 12 04.8 h = normal MB = 4.2 D = 29.66 Az = 163.5 (NEIS)
	e	A 18 17	PV A 1.0s 13.8nm
1.	eP	A 05 31 19.5	<u>East of Lake Baikal</u> 56.39 N 113.66 E H = 05 21 46.0 h = normal MB = 4.6 D = 55.46 Az = 310.9 (NEIS)
	e	A 31 27	
1.	ePKIKP	A 06 42 35.5	<u>Fiji Islands Region</u> 19 S 176 W H = 06 22 58 MB = 4.8 (NORSAR) D = 147.8
	ePKHKP	A 42 38	
1.	eP	A 07 33 58	<u>Greenland Sea</u> 75.72 N 6.82 E H = 07 28 31.2 h = normal MB=4.6 MS=5.0 D = 25.24 Az = 172.8 (NEIS)
	e	A 34 04.5	
1.	eP	AB 17 05 32	<u>Salta Province, Argentina</u> 22.14 S 64.74 W H = 16 51 51.5 h = 13 km MB=5.5 MS=5.9 D = 98.60 Az = 38.7 (NEIS)
	ePP	B 09 35	
	eSKS	B 16 11	
	eS	B 17 00	
	ePS	B 18 25	PV A traces
	LmV	B 48.3	PV B 8s 0.5/um M = 6.1
	LmH	B 52.7	PPV B 8 0.5/um 6.0 SH B 13 1.1/um 6.2 LmH B 17.8 4.6/um 6.0 LmV B 19.5 6.9/um 6.2
1.	eP	AB 23 22 57	<u>South Atlantic Ridge</u> 22.64 S 10.67 W H = 23 11 14.5 h = normal MB=5.6 MS=5.6 D = 75.58 Az = 14.4 (NEIS)
	eS	B 32 38	
	LmH	B 56.2	
	LmV	B 56.3	PV A 1.3s 48.0nm M = 5.3 LmH B 17.5 2.1/um 5.5 LmV B 17 2.6/um 5.6

Day	Phase	h m s	Remarks
2.	e(PKHKP) A	06 50 35	<u>South of Fiji Islands</u> 26 S 180 W H = 06 30 34 h = 3.6 (NORSAR) D = 153.8
2.	ePKHKP A	07 35 33	<u>West of Macquarie Island</u> 54.14 S 140.21 E H = 07 15 46.1 h = normal MB = 5.4 MS=5.3 D = 149.00 Az = 284.9 (NEIS) PKHKPV A 1.6s 33.0nm
2.	iPn A	08 02 13	<u>Lower Silesia, Poland</u>
	eiSg A	02 52.5	(CLL)
2.	eP A	16 49 09	<u>Alma-Ata Region</u> 42.17 N 75.56 E H = 16 41 05.8 h = normal MB = 5.0 D = 43.65 Az = 304.0 (NEIS) LmH B 14s 1.0/um M = 4.9 LmV B 13 0.7/um 4.9
	LmH B	17 07.9	
	LmV B	08.4	
2.	LmH B	20 35.8	<u>Near East Coast of Honshu</u> 37.75 N 141.78 E H = 19 19 43.8 h = 86 km MB = 4.3 (ISC) D = 81.5 LmV B 18s 0.4/um
	LmV B	35.8	
2.	eP A	20 37 11	<u>Off East Coast of Honshu, Japan</u> 40.57 N 143.62 E H = 20 25 02.8 h = 28 km MB = 4.7 D = 79.92 Az = 331.3 (NEIS)
2.	ePKIKP AB	23 46 20.5	<u>Kermadec Islands Region</u> 29.08 S 175.95 W H = 23 26 26.6 h = normal MB=6.8 MS=7.2 D = 157.72 Az = 347.2 (NEIS) PKIKPV A 3.0s 2580.0nm PKIKPV B 9 9.3nm LmH B 21.5 63.5/um M = 7.3 LmV B 26 106.0/um 7.5
	ePKHKP AB	46 35	
	ePKP2 A	46 54	
	LmV B	24 49.1	
	LmH B	49.2	

Day	Phase	h m s	Remarks
3.	eP A	05 13 18	<u>Off Coast of Northern California</u> 40.42 N 125.14 W H = 05 00 58.6 h = 12 km MB=5.4 MS=5.2 D = 81.72 Az = 26.2 (NEIS) PV A 1.3s 21.8nm M = 5.1
3.	ePKIKP AB	23 45 02.5	<u>Kermadec Islands Region</u> 29.12 S 176.11 W H = 23 25 09.3 h = normal MB=6.2 MS=6.6 D = 157.73 Az = 347.0 (NEIS) PKIKPV A 3.0s 1110.0nm PKIKPV B 12 4.4/um LmH B 17.8 9.0/um M = 5.5 LmV B 17.5 7.0/um 5.5
	ePKHKP A	45 15.5	
	ePKP2 A	45 35.5	
	ePP AB	49 12.5	
	e(PPP) B	52 50	
	ePPS B	24 02 40	
	LmV B	25 08.5	
	LmH B	09.5	
4.	ePKP2 A	13 54 45	<u>Kermadec Islands Region</u> 29.13 S 146.14 W H = 13 34 18.85 h = normal MB = 5.1 MS = 5.0 (NEIS) D = 157.8 PKP2V A 1.2s 16.3nm
4.	+iP1 AB	19 39 56	<u>Mongolia</u> 45.14 N 94.03 E H = 19 30 42.1 h = normal MB=6.1 MS=6.7 D = 52.83 Az = 307.6 (NEIS) P1V A 1.2s 228.0nm M = 6.0 P2V A 1.8 764.0nm 6.3 LmH B 13 202.0/um 7.4 LmV B 12.5 169.0/um 7.4
	iP2 A	40 02	
	ePP B	42 00	
	eS B	47 26	
	eSS B	51 08	
	LmH B	20 03.3	
	LmV B	05.4	
4.	eP A	20 11 04	<u>Northern Sinkiang Province</u> 44.6 N 93.90 E H = 20 01 41.4 h = 58 km MB = 4.5 D = 53.06 Az = 308
4.	eP A	21 35 24	<u>Hindu Kush Region</u> 36.39 N 70.85 E H = 21 27 33.24 h = 202 km MB = 4.6 (NEIS) D = 43.9

Day	Phase	h m s	Remarks
5.	LmV B	06 08.6	<u>Off Coast of Southern Chile</u> 44.78 S 80.01 W H = 04 58 55.44 h = normal MB = 5.2 MS = 5.1 (NEIS) D = 123.6 LmH B 19s 0.7/um M = 5.3 LmV B 21 1.0/um 5.4
	LmH B	10.8	
5.	ePKP2 A	18 24 41	<u>Kermadec Islands Region</u> 29.23 S 176.25 W H = 18 04 14.92 h = normal MB = 5.4 MS = 5.3 (NEIS) D = 157.7 XV A 1.8s 54.1nm PPV A 2.0 59.8nm M = 5.4 LmV B 17 0.35/um 5.3
	eX A	24 48.5	
	e A	25 03.5	
	ePP A	28 44	
	LmV B	19 42.6	
	LmH B	42.8	
5.	eP A	20 21 50	<u>Caribbean Sea</u> 14.75 N 81.73 W H = 20 09 34.6 h = 23 km MB = 5.2 D = 80.84 Az = 40.1 (NEIS)
6.	LmH B	13 32.7	<u>Easter Island Cordillera</u> 34.97 S 107.80 W H = 12 20 59.4 h = 33 km MB = 5.2 (ISC) D = 134.2 LmH B 19s 0.4/um M = 5.1 LmV B 18 0.5/um 5.3
	LmV B	36.6	
6.	LmH B	15 52.7	<u>Scotia Sea</u> 60.76 S 38.09 W H = 14 51 23.61 h = normal MB = 5.6 MS = 5.5 (NEIS) D = 112.6 LmH B 24s 1.1/um M = 5.4 LmV B 17 0.9/um 5.4
	LmV B	16 06.3	
6.	eP A	20 25 10.5	<u>Shikoku, Japan</u> 33.61 N 132.34 E H = 20 13 00.7 h = 65 km MB = 4.8 D = 81.18 Az = 326.4 (NEIS)

Day	Phase	h m s	Remarks
6.	eP A	20 30 21	<u>Mongolia</u> 45.12 N 94.09 E H = 20 21 05.5 h = normal MB = 4.4 D = 52.87 Az = 307.7 (NEIS)
6.	eP A	21 38 00	<u>South Atlantic Ridge</u> 22.57 S 10.70 W H = 21 26 18.3 h = normal MB = 5.0 D = 75.51 Az = 14.5 (NEIS)
6.	ePKP2 A	23 39 51	<u>South of Fiji Islands</u> 26.87 S 178.46 W H = 23 20 10.6 h = 327 km MB = 4.8 D = 155.04 Az = 344.7 (NEIS) PKP2V A 1.3s 10.9nm
7.	eP A	08 31 52.5	<u>Northern Sumatra</u> 5.18 N 96.30 E H = 08 19 46.1 h = 169 km MB = 4.9 D = 82.65 Az = 320.3 (NEIS) PV A 1.5s 25.1nm M = 4.8
7.	eP A	13 05 11.5	<u>Kurile Islands</u> 46.63 N 152.72 E H = 12 53 17.3 h = 33 km MB = 5.2 D = 77.45 Az = 335.8 (NEIS) PV A 1.2s 36.6nm M = 5.6
	e A	05 29.5	
7.	ePKHKP A	15 32 37	<u>Tonga</u> 21.7 S 174.7 W H = 15 12 49 h = 33 km MB = 4.7 D = 150.69 Az = 352 (ISC) PKHKPV A 1.8s 20.3nm
7.	eP A	21 06 04	<u>Northern India</u> 30.64 N 78.69 E H = 20 56 49.7 h = normal MB = 4.9 D = 52.79 Az = 312.6 (NEIS)
8.	ePn A	00 18 50.5	<u>Yugoslavia</u> 46.2 N 15.5 E H = 00 17 23 (BCIS) D = 5.14
	eSg A	20 05	
8.	+iP1 AB	05 57 57.8	<u>Near East Coast of Honshu, Japan</u> 36.41 N 141.10 E H = 05 45 37.0 h = 35 km MB=6.0 MS=6.0
	eP2 A	58 09	
	ePP B	06 01 10	

Day	Phase	h	m	s	Remarks
cont. 8.	eS LmH LmV	B B B	06 37.5 39.9	08 10	D = 82.58 Az = 330.3 (NEIS) P1V A 1.6s 269.2nm M = 6.0 P1V B 8 3.2/um 6.4 P2V A 2.0 376.1nm 6.1 PPV B 7.0 1.4/um 6.4
8.	eP e	A A	06 06 04	05 41	<u>Ural Mountains Region</u> 53.68 N 55.1 E H = 05 59 59.8 D = 26.53 Az = 281 (ISC)
8.	eP	A	12 21 20		<u>Near East Coast of Kamchatka</u> 52.57 N 158.83 E H = 12 09 52.4 h = 60 km MB = 4.8 D = 73.49 Az = 338.9 (NEIS) PV A 1.2s 16.2nm M = 4.8
9.	eP e e LmH LmV	AB A A B B	02 36 30.5 36 39.5 36 43 44.8 44.9		<u>Dodecanese Islands</u> 36.65 N 28.45 E H = 02 32 17.6 h = 69 km MB = 5.0 D = 18.49 Az = 324.4 (NEIS) PV A 1.4s 237.0nm M = 5.2 PV B 4 0.8/um 5.3 LmH B 14 1.0/um LmV B 14 1.1/um
9.	e	A	03 05 42		
9.	eP	A	16 31 40		<u>Szechwan Province, China</u> 28.23 N 103.89 E H = 16 20 29.5 h = 33 km MB = 5.2 D = 70.09 Az = 317.4 (NEIS) PV A 1.2s 12.2nm M = 4.8
9.	ePKP2	A	17 05 17		<u>Kermadec Islands Region</u> 29.33 S 176.21 W H = 16 44 50.68 h = normal MB = 4.7 (NEIS) D = 157.9

Day	Phase	h	m	s	Remarks
9.	ePcP	A	17 49 48		<u>Caribbean Sea</u> 14.61 N 81.81 W H = 17 37 21.9 h = normal MB = 5.0 MS = 4.9 D = 81.00 Az = 40.0 (NEIS)
10.	ePKP	A	00 23 55		<u>Tonga Islands</u> 16.47 S 173.81 W H = 00 04 17.5 h = 31 km MB = 4.5 D = 145.63 Az = 353.9 (NEIS) PKPV A 0.9s 15.6nm
10.	+iP ePn	A A	03 04 46.4 06 19		<u>Eastern Kazakh SSR</u> 49.79 N 78.14 E H = 02 56 57.5 h = 0 km MB = 5.3 D = 41.27 Az = 297.7 (NEIS) Underground explosion M = 5.2 (UPP) PV A 0.7s 61.3nm M = 5.4
10.	ePcP	A	04 42 32.5		<u>Off W. Coast of Northern Sumatra</u> 0.67 N 96.70 E H = 04 29 41.5 h = normal MB = 4.9 D = 86.36 Az = 320.5 (NEIS)
10.	eP	A	12 19 25.5		<u>Dodecanese Islands</u> 36.14 N 28.29 E H = 12 15 05.9 h = 45 km MB = 3.9 D = 18.83 Az = 325.5 (NEIS) PV A 1.8s 27.0nm M = 4.2
10.	+eP ePP	AB A	16 12 17.5 15 23		<u>Southern Nevada</u> 37.07 N 116.03 W H = 16 00 00.1 h = 0 km MB = 5.7 D = 81.27 Az = 30.7 (NEIS) Underground explosion (AEC) PV A 1.5s 57.8nm M = 5.4
11.	LmH LmV	B B	06 38.3 44.7		<u>Mariana Islands</u> 13.10 N 145.38 E H = 05 34 22.10 h = 53 km MB = 5.3 (NEIS) D = 104.9 LmH B 16s 0.4/um LmV B 17 0.5/um

Day	Phase	h m s	Remarks
11.	eP	A 16 06 00.5	<u>Hokkaido, Japan Region</u> 41.95 N 142.30 E H = 15 54 07.2 h = 73 km MB = 4.7 D = 78.23 Az = 330.5 (NEIS) PV A traces
11.	+eP eS LmH LmV	A 18 01 14 B 05 18 B 10.2 B 11.2	<u>Jan Mayen Island Region</u> 71.57 N 4.13 W H = 17 56 18.5 h = normal MB = 5.0 D = 22.18 Az = 152.8 (NEIS) PV A 2.0s 162.0nm M = 5.1 SH B 9 0.8/um 5.0 LmH B 17.5 0.8/um 4.2 LmV B 14 0.6/um 4.3
11.	ePKHKP ePKP2	A 19 30 53.5 A 31 04	<u>South of Fiji Islands</u> 22.88 S 176.48 W H = 19 11 24.9 h = 222 km MB = 4.6 D = 151.58 Az = 349.1 (NEIS) traces
13.	+eiP1 eiP2 eS ePS eSS eLQ P'P' e LmH LmV	AB 01 30 53 A 31 14.5 B 41 18 B 42 16 B 47 15 B 53 00 A 57 25 A 57 29.5 B 02 04.7 B 04.8	<u>Panama-Colombia Border Region</u> 7.75 N 77.69 W H = 01 18 22.8 h = 12 km MB = 7.3 D = 83.63 Az = 39.8 (NEIS) P1V A 1.4s 288.0nm M = 6.3 P1V B 8 13.6/um 7.2 P2V A 2.2 1319.5nm 6.7 SH B 13 2.9/um 6.2 LmH B 19.8 108.0/um 7.2 LmV B 19.5 142.0/um 7.4
13.	eP	A 01 43 25	<u>Panama-Colombia Border Region</u> 7.54 N 77.82 W H = 01 30 56.8 h = normal MB = 5.4 D = 83.87 Az = 39.8 (NEIS) PV A 1.3s 21.8nm M = 5.1

Day	Phase	h m s	Remarks
13.	e(P)	A 01 52 38	<u>Near West Coast of Colombia</u> 6.94 N 77.86 W H = 01 39 59.3 h = 21 km MB = 5.2 D = 84.35 Az = 39.8 (NEIS) (P)V A 1.3s 17.5nm M = 5.1
13.	eP	A 02 09 09	<u>Panama-Colombia Border Region</u> 7.61 N 77.77 W H = 01 56 39.9 h = normal MB = 4.8 D = 83.79 Az = 39.8 (NEIS) PV A traces
13.	eP	A 02 19 43	<u>Panama-Colombia Border Region</u> 7.58 N 77.67 W H = 02 07 13.1 h = 24 km MB = 5.3 D = 83.75 Az = 39.8 (NEIS) PV A 1.6s 33.0nm M = 5.3
13.	eP	A 02 25 08	<u>Panama-Colombia Border Region</u> 7.63 N 77.74 W H = 02 12 39.6 h = normal MB = 5.0 D = 83.75 Az = 39.8 (NEIS) PV A traces
13.	eP	A 02 27 22.5	<u>Panama-Colombia Border Region</u> 7.55 N 77.65 W H = 02 14 54.0 h = 23 km MB = 5.2 D = 83.76 Az = 39.8 (NEIS)
13.	eP	A 02 32 50	<u>Panama-Colombia Border Region</u> 7.41 N 77.66 W H = 02 20 22.8 h = 45 km MB = 5.5 (NEIS) D = 83.9 PV A 1.3s 35.0nm M = 5.2
13.	eP	A 03 11 14	<u>Panama-Colombia Border Region</u> 7.40 N 77.79 W H = 02 58 45.6 h = normal MB = 4.9 D = 83.96 Az = 39.8 (NEIS)

Day	Phase	h m s	Remarks	
13.	eP e	A A	04 03 34.5 03 40	<u>Panama-Colombia Border Region</u> 7.75 N 77.70 W H = 03 51 04.0 h = 23 km MB = 5.0 D = 83.64 Az = 39.8 (NEIS) PV A 1.4s 23.2nm M = 5.2
13.	eP	A	05 07 26	<u>Panama</u> 7.70 N 78.26 W H = 04 54 58.3 h = normal MB = 4.4 D = 84.03 Az = 39.8 (NEIS) PV A traces
13.	eP	A	10 33 57	<u>Panama-Colombia Border Region</u> 7.73 N 77.61 W H = 10 21 24.3 h = 12 km MB = 4.9 D = 83.60 Az = 39.8 (NEIS)
13.	eP	A	10 50 27.5	<u>Northeast of Taiwan</u> 26.55 N 125.68 E H = 10 38 06.8 h = 97 km MB = 5.1 D = 83.67 Az = 324.2 (NEIS) PV A 1.5s 25.1nm M = 4.9
13.	e	A	12 55 51	<u>Southern Alaska</u> 61.49 N 145.01 W H = 12 44 50.7 h = 55 km MB = 4.7 D = 66.66 Az = 16.0 (NEIS)
13.	eP	A	13 00 10	<u>Panama-Colombia Border Region</u> 7.68 N 77.52 W H = 12 47 39.6 h = 29 km MB=4.9 MS=4.2 D = 83.58 Az = 39.8 (NEIS) PV A 1.3s 13.1nm M = 4.9
13.	eP e	A A	13 13 21 13 35	<u>Panama-Colombia Border Region</u> 7.47 N 77.62 W H = 13 00 53.3 h = normal MB=4.9 MS=4.6 D = 83.80 Az = 39.8 (NEIS)
13.	eP eiX	A A	16 01 03.5 01 08	<u>Algeria</u> 35.97 N 4.79 E H = 15 57 25.2 h = 37 km MB = 4.8

Day	Phase	h m s	Remarks	
cont. 13.	LmH LmV	B B	16 06.4 07.8	D = 15.48 Az = 16.5 (NEIS) XV A 1.2s 61.0nm LmH B 17.5 2.2/um M = 4.4 LmV B 14 1.2/um 4.4
13.	eP	A	16 28 25	<u>Panama-Colombia Border Region</u> 7.78 N 77.64 W H = 16 15 56.0 h = 18 km MB = 4.9 D = 83.57 Az = 39.8 (NEIS)
13.	eP	A	16 47 49	<u>Panama-Colombia Border Region</u> 7.35 N 77.93 W H = 16 35 19.8 h = 37 km MB = 4.7 D = 84.09 Az = 39.8 (NEIS) PV A 1.2s 10.2nm M = 4.9
13.	eP eS LmH LmV	A B B B	18 11 13 21 36 49.5 49.5	<u>Panama-Colombia Border Region</u> 7.70 N 77.72 W H = 17 58 41.4 h = 5 km MB=5.4 MS=5.7 D = 83.68 Az = 39.8 (NEIS) PV A 2.6s 139.0nm M = 5.7 PV B 8 0.7/um 5.9 SH B 15 0.9/um 5.7 LmH B 18 1.2/um 5.3 LmV B 18 2.3/um 5.6
13.	ePKP e	A A	18 17 59 18 09.5	<u>New Hebrides Islands</u> 20.79 S 169.30 E H = 17 58 25.3 h = 46 km MB = 5.1 D = 145.41 Az = 334.8 (NEIS) PKPV A 1.2s 22.4nm
13.	ePKP	A	19 03 52	<u>Tonga Islands</u> 17.52 S 173.31 W H = 18 44 10.6 h = normal MB = 4.7 D = 146.72 Az = 354.3 (NEIS) PKPV A 2.0s 34.2nm



Day	Phase	h	m	s	Remarks	
13.	eP	A	19	28	14	<u>Panama-Colombia Border Region</u> 7.75 N 77.60 W H = 19 15 45.6 h = 18 km MB = 4.6 D = 83.57 Az = 39.8 (NEIS)
13.	eP1	A	23	21	13	<u>Panama-Colombia Border Region</u> 7.15 N 77.73 W
	eP2			21	15	
	LmH	B	24	01	0	H = 23 08 41.9 h = 23 km MB=5.3 MS=4.3
	LmV	B		01	0	D = 84.12 Az = 39.8 (NEIS) P1V A 1.5s 12.6nm M = 4.9 P2V A 1.3 26.2nm 5.3
14.	eP	A	02	01	11	<u>Panama-Colombia Border Region</u> 7.81 N 77.64 W H = 01 48 43.6 h = 26 km MB=5.2 MS=4.5 D = 83.55 Az = 39.8 (NEIS) PV A 1.4s 32.6nm M = 5.3
14.	eP	A	02	26	19	<u>Panama-Colombia Border Region</u> 7.75 N 77.61 W
	eS	B		36	44	
	LmH	B	03	05	6	H = 02 13 50.4 h = 15 km MB=5.9 MS=5.0
	LmV	B		11	5	D = 83.59 Az = 39.8 (NEIS) PV A 1.7s 91.0nm M = 5.7 LmH B 17 0.5/um 5.0 LmV B 18 0.6/um 5.1
14.	eP	A	02	59	45	<u>Strait of Gibraltar</u> 35.59 N 3.74 W H = 02 55 26.8 h = 31 km MB = 4.4 D = 18.70 Az = 31.7 (NEIS)
14.	e	A	03	02	54	<u>Panama-Colombia Border Region</u> 7.74 N 77.40 W H = 02 50 15.1 h = 17 km MB = 4.8 D = 83.45 Az = 39.8 (NEIS)
14.	eSg	A	04	04	59	<u>Austria</u> 47.8 N 14.15 E H = 04 03 09 (VIE) D = 3.27

Day	Phase	h	m	s	Remarks	
14.	eP	A	06	18	17.5	<u>Greenland Sea</u> 79.80 N 0.93 W
	e	A		18	25.5	H = 06 12 11.1 h = 17 km MB = 4.6 D = 29.59 Az = 163.7 (NEIS) PV A 1.3s 13.1nm M = 4.6
14.	ePKP2	A	07	25	20 <sup>*</sup>	<u>Kermadec Islands Region</u> 31.25 S 177.64 W H = 07 04 32.5 h = 15 km MB = 4.4 (NEIS) D = 159.4 traces
14.	ePP	A	09	56	32	<u>Flores Island Region</u> 8.72 S 122.56 E H = 09 37 36.8 h = 123 km MB = 5.8 (NEIS) D = 109.9 PPV A 1.6s 16.5nm M = 5.2
14.	eP	A	15	37	13.5	<u>South of Honshu, Japan</u> 33.28 N 139.79 E H = 15 24 53.4 h = 133 km MB = 4.6 D = 84.75 Az = 329.8 (NEIS) PV A 1.0s 11.8nm M = 4.7
14.	eP	A	16	36	15	<u>Northwest of Kurile Islands</u> 51.94 N 152.42 E H = 16 25 26.8 h = 378 km MB = 4.5 D = 72.54 Az = 335.0 (NEIS) traces
14.	ePKIKP	A	19	08	16	<u>Kermadec Islands Region</u> 28.27 S 178.15 W
	ePKP2	A		08	46	
	epPKP2	A		09	32	H = 18 48 42.9 h = 183 km MB = 5.3 D = 156.45 Az = 344.3 (NEIS) h = 175 km PKP2V A 1.4s 27.9nm pPKP2V A 1.0 15.7nm
14.	eP	A	21	34	23	<u>Greenland Sea</u> 73.24 N 6.84 E
	eX	A		34	31	H = 21 29 21.8 h = normal MB = 4.7 D = 22.78 Az = 172.1 (NEIS) PV A 1.5s 10.1nm M = 4.1 XV A 1.4 20.9nm

Day	Phase	h	m	s	Remarks	
15.	eP	A	09	17	58	<u>Kamchatka</u> 55.55 N 160.76 E H = 09 06 56.1 h = 161 km MB = 4.7 D = 71.10 Az = 339.8 (NEIS) PV A 1.2s 20.3nm M = 4.8
15.	eP	A	19	42	42.5	<u>Panama-Colombia Border Region</u> 7.87 N 77.18 W H = 19 30 14.8 h = 40 km MB = 4.5 D = 83.22 Az = 39.9 (NEIS)
15.	eP	A	23	23	57	<u>Panama-Colombia Border Region</u> 7.46 N 77.65 W H = 23 11 27.8 h = 28 km MB=5.3 MS=4.4 D = 83.83 Az = 39.8 (NEIS) PV A 1.3s 21.8nm M = 5.2
16.	ePKHKP	A	07	09	23	<u>Kermadec Islands Region</u> 29.10 S 176.32 W H = 06 49 21.1 h = 60 km MB = 4.7 D = 157.66 Az = 346.6 (NEIS) PKHKPV A 2.0s 29.9nm
16.	eP	A	24	05	49.5	<u>Southern Sumatra</u> 4.90 S 103.14 E H = 23 52 34.1 h = 58 km MB = 5.4 D = 94.72 Az = 320.3 (NEIS) traces
17.	eP	A	02	55	49	<u>Near East Coast of Kamchatka</u> 54.21 N 161.11 E H = 02 44 24.1 h = normal MB = 4.3 D = 72.43 Az = 340.2 (NEIS)
17.	ePKHKP	A	04	11	05	<u>Tonga Islands</u> 20.78 S 174.28 W H = 03 51 16.0 h = normal MB=4.7 MS=4.3 D = 149.84 Az = 352.5 (NEIS) PKHKPV A 1.6s 33.0nm

Day	Phase	h	m	s	Remarks	
17.	eP	A	05	11	59	<u>Rumania</u> 45.75 N 26.53 E H = 05 09 23.0 h = 145 km MB = 5.1 D = 11.09 Az = 301.6 (NEIS) PV A 1.6s 27.4nm M = 4.6 LmH B 11 0.7/um LmV B 7 0.4/um
17.	ePKHKP	A	06	52	12	<u>Tonga Islands</u> 20.66 S 174.02 W H = 06 32 24.4 h = normal MB=4.8 MS=4.7 D = 149.74 Az = 352.9 (NEIS) PKHKPV A 1.4s 27.9nm LmH C 15 0.35/um M = 5.2 LmV C 16 0.35/um 5.2
17.	eP	A	10	54	38	<u>Andreanof Islands, Aleutian Is.</u> 51.66 N 173.51 W H = 10 42 42.3 h = 45 km MB = 5.0 D = 77.98 Az = 356.7 (NEIS) h = 41 km PV A 1.2s 24.4nm M = 5.1 LmH B 16 0.25/um 4.6 LmV B 15 0.35/um 4.8
18.	eP	A	00	28	36	<u>Off East Coast of Kamchatka</u> 52.42 N 160.29 E H = 00 17 02.0 h = normal MB=4.7 MS=4.3 D = 73.95 Az = 339.9 (NEIS)
18.	eP	A	00	43	10	<u>Off East Coast of Kamchatka</u> 52.37 N 160.14 E H = 00 31 36.4 h = normal MB = 4.4 D = 73.96 Az = 339.8 (NEIS)
18.	LmV	C	03	56.5		<u>West Chile Rise</u> 41.5 S 87.1 W H = 02 46 10 h = 33 km MB = 4.6 (ISC) D = 112.8 LmH C 25s 0.45/um M = 5.0 LmV C 25 0.5/um 5.0

Day	Phase	h m s	Remarks
18.	ePKP iX eY LmH LmV	AB A AB B B	11 24 17.5 24 20.5 24 31 12 24.5 35.5
			<u>Tonga Islands</u> 15.22 S 173.59 W H = 11 04 43.2 h = normal MB=5.9 MS=5.8 D = 144.41 Az = 354.3 (NEIS) PKPV A 1.2s 32.5nm XV A 1.6 85.1nm YV A 1.6 82.4nm YV B 10 1.2/um LmH B 21 2.4/um M = 5.9 LmV B 18.5 2.4/um 6.0
18.	e(Pn) ePg	A A	16 57 23 58 46
			<u>Northern Italy</u> 44.8 N 7.9 E H = 16 55 38 h = 33 km D = 6.37 Az = 22 (ISC)
18.	eP epP ePP	A A A	19 34 15.5 34 29.5 37 47
			<u>Guerrero, Mexico</u> 17.06 N 98.35 W H = 19 21 24.6 h = 48 km MB=5.6 MS=5.2 D = 89.03 Az = 36.8 (NEIS) h = 49 km PV A 1.6s 38.5nm M = 5.5
18.	LmH LmV	B B	19 38.0 38.8
			<u>Off Coast of Southern Chile</u> 45.78 S 76.35 W H = 18 29 50.66 h = normal MB=5.1 MS=5.4 D = 122.35 Az = 48.9 (NEIS) LmH B 20s 1.3/um M = 5.6 LmV B 21 1.6/um 5.7
18.	ePKHKP epPKP	A A	22 17 23 18 25
			<u>Fiji Islands Region</u> 19.86 S 176.20 W H = 21 58 09.2 h = 297 km MB = 4.6 D = 148.66 Az = 350.4 (NEIS) traces
18.	e	A	22 25 41.5
			<u>Eastern Caucasus</u> 42.55 N 45.34 E H = 22 20 11.7 h = normal MB = 4.5 D = 24.38 Az = 301.1 (NEIS)
18.	e(Sg)	A	22 30 29
			<u>Upper Silesia</u> (CLL)

Day	Phase	h m s	Remarks
18.	ePKIKP +iPKHKP ePKP2	A A A	23 30 56 31 01.5 31 08
			<u>Fiji Islands Region</u> 20.66 S 178.43 W H = 23 12 18.4 h = 600 km MB = 4.6 D = 149.05 Az = 347.5 (NEIS) PKHKPV A 1.4s 25.6nm
19.	LmH LmV	B B	03 06.5 08.8
			<u>Near Coast of Central Chile</u> 32.88 S 71.95 W H = 02 02 50.4 h = 36 km MB = 5.1 (ISC) D = 110.9 LmV B 20s 0.35/um M = 5.0
19.	eP	A	07 45 00.5
			<u>Cyprus</u> 35.73 N 31.56 E H = 07 40 23.3 h = 65 km MB = 4.2 D = 20.72 Az = 322.1 (NEIS)
19.	ePKIKP ePP	A AB	18 04 28.5 06 26
			<u>Solomon Islands</u> 6.07 S 154.93 E H = 17 45 43.9 h = 157 km MB = 5.7 D = 126.06 Az = 331.9 (NEIS) PPV A 2.6s 130.0nm M = 5.5
19.	ePKIKP	A	18 52 58
			<u>Samoa Islands Region</u> 16.28 S 171.92 W H = 18 33 21.7 h = normal MB=5.3 MS=4.8 D = 145.60 Az = 356.0 (NEIS) PKIKPV A 1.5s 50.2nm
19.	eP	A	18 56 51
			<u>Hokkaido, Japan Region</u> 42.20 N 142.63 E H = 18 44 53.4 h = 38 km MB = 4.8 D = 78.14 Az = 330.6 (NEIS) traces
19.	eP	A	19 05 37.5
			<u>Northern Sumatra</u> 3.48 N 98.27 E H = 18 53 01.8 h = normal MB = 4.8 D = 85.21 Az = 320.4 (NEIS)
20.	eP	A	00 59 59.5
			<u>Andreanof Islands, Aleutian Is.</u> 51.59 N 173.55 W H = 00 48 04.0 h = 45 km MB=4.9 MS=4.2 D = 78.04 Az = 356.6 (NEIS)

Day	Phase	h m s	Remarks
20.	eP	A 01 16 29.5	<u>Andreanof Islands, Aleutian Is.</u> 51.83 N 173.49 W H = 01 04 33.8 h = normal MB = 4.3 D = 77.81 Az = 356.7 (NEIS)
20.	ePKHKP	A 11 09 23	<u>Fiji Islands Region</u> 17.77 S 178.72 W H = 10 50 49.6 h = 624 km MB = 4.5 D = 146.17 Az = 348.2 (NEIS)
20.	eP	A 18 24 15.5	<u>Greece</u> 39.06 N 21.47 E H = 18 21 09.9 h = 43 km MB = 3.3 D = 13.51 Az = 332.2 (NEIS)
20.	e	A 19 49 01	<u>Halmahera</u> 0.78 S 127.44 E H = 19 30 13.8 h = normal MB=5.2 MS=4.9 D = 106.72 Az = 323.2 (NEIS)
20.	eP	A 24 00 40	<u>Turkey</u> 37.04 N 27.52 E
	e	A 01 22.5	H = 23 56 36.3 h = normal MB = 3.9
	LmH	B 09.7	D = 17.74 Az = 325.1 (NEIS)
	LmV	B 09.7	PV A 2.0s 21.4nm M = 3.9 LmH B 13 0.3 $\mu$ m
21.	ePKP2	A 02 34 56.5	<u>South of Kermadec Islands</u> 33.48 S 178.68 W H = 02 14 15.8 h = 28 km MB = 5.1 (NEIS) D = 161.2
21.	eP	A 05 27 13	<u>Albania</u> 40.12 N 19.74 E H = 05 24 22.2 h = normal MB = 4.3 D = 11.97 Az = 334.3 (NEIS)
21.	eP	A 08 41 16.5	<u>Near Coast of Chiapas, Mexico</u>
	eS	B 51 55	14.31 N 92.06 W
	LmH	B 09 25.8	H = 08 28 35.3 h = 70 km MB = 5.3
	LmV	B 25.9	D = 87.50 Az = 38.3 (NEIS) PV A 2.3s 61.0nm M = 5.3 LmH B 16 1.5 $\mu$ m LmV B 16 1.8 $\mu$ m

Day	Phase	h m s	Remarks
21.	LmH	B 23 23.5	<u>Near Coast of Nicaragua</u> 11.27 N 86.08 W
	LmV	B 24.0	H = 22 33 38.2 h = 87 km MB = 5.2 D = 86.22 Az = 39.2 (NEIS) LmH B 18s 0.8 $\mu$ m LmV B 18 1.0 $\mu$ m
22.	eP	A 03 54 57	<u>Eastern Sea of Japan</u> 40.66 N 137.57 E
	epP	A 56 06	H = 03 43 31.8 h = 299 km MB = 4.7 D = 77.52 Az = 328.1 (NEIS) h = 303 km
22.	eP1	A 07 22 14	<u>Southern Italy</u> 39.36 N 15.44 E
	eP2	A 22 18	H = 07 19 34.1 h = 271 km MB = 4.7 D = 11.60 Az = 347.8 (NEIS) P1V A 1.0s 19.7nm M = 4.2 P2V A 1.9 129.0nm 4.7
22.	eP	A 13 29 47.5	<u>Kamchatka</u> 55.65 N 160.47 E
	epP	A 30 27	H = 13 18 46.1 h = 165 km MB = 4.8 D = 70.95 Az = 339.6 (NEIS) h = 165 km PV A 0.9s 13.6nm M = 4.7 pPV A traces
22.	ePg	A 15 36 47.5	<u>Northern Italy</u> 44.8 N 8.9 E
	eSg	A 38.07.5	H = 15 34 49 h = 0 km (ISC) D = 6.0
22.	e	A 16 50 04	<u>Austria</u>
	ei(Sg)	A 53 32.8	Explosion (VIE)
22.	ePKIKP	A 18 30 43.5	<u>Central Chile</u> 35.80 S 71.49 W
			H = 18 12 15.9 h = 86 km MB = 5.4 D = 112.77 Az = 43.3 (NEIS) PKIKPV A 1.2s 12.2nm

Day	Phase	h m s	Remarks
23.	ePKHKP	A 00 48 02	<u>Tonga Islands</u> 20.72 S 174.26 W
	eX	A 48 12	H = 00 28 13.3 h = normal MB=5.0 MS=5.0 D = 149.78 Az = 352.6 (NEIS) PKHKPV A 1.5s 40.2nm XV A 1.4 51.2nm
23.	-iPKP	AB 07 04 48.5	<u>Tonga Islands</u> 16.62 S 173.56 W
	eX	A 04 56	H = 06 45 12.6 h = 46 km MB=5.5 MS=4.3
	eY	AB 05 13.5	D = 145.81 Az = 354.1 (NEIS) PKPV A 1.6s 165.0nm XV A 1.2 48.8nm YV A 1.7 78.8nm
23.	eP	A 07 19 05	<u>Kirgiz SSR</u> 39.19 N 72.32 E
	e	A 19 11.5	H = 07 11 05.2 h = normal MB = 5.0
	ePcP	A 20 59	D = 43.33 Az = 306.0 (NEIS)
	LmH	B 36.0	LmH B 19s 0.6/um M = 4.5
	LmV	B 39.7	LmV B 12 0.3/um 4.5
23.	eP	A 07 44 55	<u>Tadzhik-Sinkiang Border Region</u> 39.47 N 73.29 E H = 07 36 50.8 h = 42 km MB = 4.7 D = 43.78 Az = 305.9 (NEIS) PV A 1.2s 12.2nm M = 4.5
23.	+iPKP	AB 11 18 04	<u>New Hebrides Islands</u> 19.53 S 169.27 E
	epPKP	AB 18 41	H = 10 58 47.5 h = 162 km MB = 5.6 D = 144.26 Az = 335.5 (NEIS) h = 139 km PKPV A 1.4s 181.5nm
23.	eP	A 15 06 55.5	<u>Off East Coast of Honshu, Japan</u> 36.63 N 142.21 E H = 14 54 30.6 h = 16 km MB = 4.7 D = 82.83 Az = 330.8 (NEIS)

Day	Phase	h m s	Remarks
23.	eP	A 22 02 42	<u>Kurile Islands</u> 49.38 N 155.74 E
	e	A 03 07.5	H = 21 50 57.3 h = normal MB = 4.5 D = 75.73 Az = 337.4 (NEIS)
24.	ePn	A 00 24 07	<u>Swabian Jura Region</u> (FRG)
	ePg	A 24 17	48.53 N 9.03 E
	eSn	A 24 38.5	H = 00 23 24.6 h = 31 km
	eSg	A 24 53	D = 2.71 Az = 37.5 (NEIS)
24.	ePKP	AB 08 47 35	<u>Kermadec Islands Region</u>
	ePKP2	A 48 09	31.25 S 177.80 W
	e	A 48 23	H = 08 27 35.9 h = normal MB=5.4 MS=5.8
	e	B 58 38	D = 159.39 Az = 342.8 (NEIS)
	LmH	B 10 09.3	PKIKPV A 2.3s 48.7nm
	LmV	B 11.5	PKP2V A 1.5 35.2nm LmH B 17.5 1.6/um M = 5.8 LmV B 17 1.5/um 5.9
	24.	PKHKP	A 14 33 53
24.	LmV	B 21 26.8	<u>South of Marianas</u> 12.98 N 144.89 E
	LmH	B 28.8	H = 20 23 00.9 h = 77 km MB = 5.3 (ISC) D = 104.7 LmH B 18s 0.3/um LmV B 19 0.4/um
25.	ePn	A 01 03 12	<u>Yugoslavia</u> 45.37 N 16.11 E
	eSn	A 04 17	H = 01 01 37.6 h = normal
	eSg	A 04 49.5	D = 6.08 Az = 331.9 (NEIS)
25.	ePKHKP	A 03 02 26	<u>South of Fiji Islands</u> 22.34 S 179.52 W H = 02 43 38.0 h = 568 km MB = 4.1 D = 150.43 Az = 345.6 (NEIS) traces

Day	Phase	h	m	s	Remarks	
25.	ePKIKP	A	17	36	38.5	<u>New Britain Region</u> 6.08 S 153.10 E
	ePP	AB	38	29		H = 17 17 38.9 h = 33 km MB=5.5 MS=5.3
	e	A	39	16		D = 125.21 Az = 331.0 (NEIS)
	e	B	44	18		PPV A 2.0s 77.0nm M = 5.7
	eSKKS	B	45	30		PPV B 8 0.8/um 6.1
	LmH	B	18	27.8		LmH B 18 0.4/um 5.1
	LmV	B	35.9		LmV B 18 0.5/um 5.2	
25.	ePn	A	19	11	49.5	<u>Federal Republic of Germany</u>
	ePg	A	12	01.5		50.98 N 6.41 E
	e(Sn)	A	12	25		H = 19 10 58.3 h = 8 km
	eSg	A	12	37		D = 3.32 Az = 93.8 (NEIS)
26.	eSg	A	01	12	28	<u>Federal Republic of Germany</u>
						51.2 N 6.6 E
						H = 01 10 47 (BCIS) D = 3.20
26.	ePn	A	01	16	40.5	<u>Switzerland</u> 46.9 N 9.8 E
	ePg	A	16	58		H = 01 15 41 (BCIS)
	eSn	A	17	29		D = 3.95
	eSg	A	17	50.5		
26.	ePP	A	13	19	58.5	<u>Ceram</u> 3.59 S 128.88 E
	LmV	B	14	18.3		H = 13 01 02.5 h = 25 km
	LmH	B	19.3			MB = 5.6 MS = 5.4 (NEIS) D = 109.8
						LmH B 16.5s 0.8/um M = 5.4 LmV B 16. 1.3/um 5.6
26.	ePKHKP	A	20	29	32	<u>Tonga Islands</u> 20.55 S 174.36 W
						H = 20 09 43.4 h = normal MB = 4.5
						D = 149.60 Az = 352.5 (NEIS) PKHKPV A 1.1s 10.1nm
26.	eP	A	20	49	18	<u>Fox Islands, Aleutian Is.</u>
	e	A	49	23		51.06 N 170.46 W
	e	A	49	34		H = 20 37 17.8 h = normal MB = 4.9

Day	Phase	h	m	s	Remarks
cont. 26.	LmH	B	21	13.0	D = 78.66 Az = 358.7 (NEIS)
	LmV	B	15.9		LmH B 16s 0.3/um M = 4.8 LmV B 16 0.4/um 4.9
27.	epP	A	01	08 15	<u>Kurile Islands</u> 42.97 N 147.06 E
					H = 00 56 03.4 h = 44 km MB = 4.9 D = 79.00 Az = 332.9 (NEIS)
27.	eP	AB	04	38 09	<u>Komandorsky Islands Region</u>
	ePP	B	40 50		55.50 N 166.37 E
	LmH	B	05	10.5	H = 04 26 47.0 h = normal MB=5.3 MS=5.4
	LmV	B	16.3		D = 72.15 Az = 343.4 (NEIS) PV A 2.3s 85.4nm M = 5.3 PV B 6 0.7/um 5.8 PPV B 6.5 0.7/um 6.0 LmH B 20 2.0/um 5.4 LmV B 16 1.9/um 5.5
27.	eP	A	10	13 40	<u>Tibet</u> 30.30 N 94.89 E
					H = 10 03 13.0 h = normal MB = 4.7
					D = 63.16 Az = 314.9 (NEIS) traces
27.	LmH	B	12	33.3	<u>Gulf of California</u> 27.9 N 111.07 W
	LmV	B	38.0		H = 11 44 58 h = 38 km MB = 4.4 (ISC) D = 86.8
27.	ePKP	A	13	44 44	<u>Tonga Islands</u> 16.36 S 175.32 W
	epPKP	A	46 04		H = 13 25 44.2 h = 334 km MB = 4.9 D = 145.35 Az = 352.2 (NEIS) h = 325 km PKPV A 1.1s 24.2nm pPKPV A traces
27.	e(Sg)	A	18	14 10	

Day	Phase	h	m	s	Remarks	
28.	eP	A	04	18	21.5	<u>Southern Sinkiang Province, China</u> 38.83 N 75.24 E H = 04 10 06.1 h = 51 km MB = 5.0 D = 45.38 Az = 306.7 (NEIS) h = 76 km PV A 1.2s 20.3nm M = 4.9
	epP	A	18	40.5		
28.	eP	A	08	13	20	<u>Near Coast of Guerrero, Mexico</u> 17.86 N 101.06 W H = 08 00 12.1 h = normal MB = 4.5 D = 89.91 Az = 36.0 (NEIS)
28.	+eiP	AB	11	46	54	<u>Kurile Islands</u> 46.29 N 153.33 E H = 11 34 59.7 h = 52 km MB = 5.9 D = 77.93 Az = 336.2 (NEIS) PV A 2.1s 1390.0nm M = 6.7 PV B 11 9.4/um 6.8 PPV B 12 4.2/um 6.5 SH B 11.5 5.9/um 6.6 LmH B 15.3 48.0/um 6.9 LmV B 19 33.9/um 6.7
	ePP	B	49	50		
	eS	B	56	44		
	eiPS	C	57	35		
	eiSS	C	12	02	10	
	LmH	B	22.9			
	LmV	B	24.2			
28.	eP	A	11	52	42	<u>Kurile Islands Region</u> 46 N 153 E H = 11 40 45 MB = 4.9 (NORSAR) D = 78.1 PV A 1.8s 60.9nm M = 5.3
28.	eP	A	12	04	44.5	<u>Kurile Islands</u> 46.33 N 153.43 E H = 11 52 51.9 h = 60 km MB = 5.0 D = 77.92 Az = 336.3 (NEIS) PV A (1.0)s 15.7nm M = 5.0
28.	eP	A	12	11	38.5	<u>Kurile Islands</u> 46.58 N 153.32 E H = 11 59 46.0 h = 49 km MB = 4.8 D = 77.67 Az = 336.2 (NEIS) PV A 1.1s 16.1nm M = 5.0

Day	Phase	h	m	s	Remarks	
28.	eP	A	12	19	45	<u>Kurile Islands</u> 46.18 N 153.26 E H = 12 07 50.0 h = 46 km MB = 5.3 D = 78.02 Az = 336.2 (NEIS) h = 50 km PV A 1.3s 52.4nm M = 5.4 pPV A 2.0 179.5nm
	epP	A	19	59		
28.	eP	A	12	31	35	<u>Kurile Islands</u> 46.24 N 153.35 E H = 12 19 39.0 h = normal MB = 4.8 D = 77.98 Az = 336.2 (NEIS) PV A 1.2s 18.3nm M = 5.0
28.	eP	A	13	16	11.5	<u>Kurile Islands</u> 46.35 N 153.28 E H = 13 04 17.5 h = 44 km MB = 4.8 D = 77.86 Az = 336.2 (NEIS) PV A 1.2s 16.3nm M = 4.9
28.	e	A	13	42	50	<u>Kurile Islands</u> 46.16 N 153.57 E H = 13 30 50 h = 19 km MB = 4.2 D = 78.12 Az = 336 (ISC)
28.	eP	A	13	43	31.5	<u>Kurile Islands</u> 46.27 N 153.51 E H = 13 31 39.3 h = 66 km MB = 5.3 D = 78.00 Az = 336.3 (NEIS) PV A 2.6s 277.0nm M = 5.8
28.	eP	A	13	53	33	<u>Kurile Islands</u> 46.32 N 153.32 E H = 13 41 38.8 h = 46 km MB = 5.4 D = 77.90 Az = 336.2 (NEIS) PV A 2.0s 128.0nm M = 5.6
	e	A	53	38		
28.	eP	A	15	22	29	<u>Kurile Islands</u> 46.22 N 153.14 E H = 15 10 34.7 h = 46 km MB = 4.5 D = 77.94 Az = 336.1 (NEIS) h = 39 km
	epP	A	22	40		

Day	Phase	h	m	s	Remarks	
28.	eP	A	16	34	52	<u>Kurile Islands Region</u> 45.95 N 153.10 E H = 16 22 55.3 h = normal MB = 4.7 D = 78.18 Az = 336.1 (NEIS) h = 44 km
	epP	A		35	04	
28.	eP	A	16	39	28	<u>Kurile Islands</u> 46.09 N 153.28 E H = 16 27 32.6 h = 52 km MB = 5.1 D = 78.10 Az = 336.2 (NEIS) PV A 1.9s 45.5nm M = 5.2
28.	eP	A	16	45	50	<u>Kurile Islands</u> 46.25 N 153.23 E H = 16 33 55.6 h = 49 km MB=4.9 MS=5.0 D = 77.94 Az = 336.2 (NEIS) PV A 1.1s 24.2nm M = 5.1 LmH B 16.5 1,1,um 5.3 LmV B 15 1.0,um 5.3
	LmH	B	17	19	.6	
	LmV	B		25	.5	
28.	eP	A	17	08	28	<u>Kurile Islands</u> 46.20 N 152.98 E H = 16 56 32.4 h = 43 km MB = 4.3 D = 77.92 Az = 336.0 (NEIS)
28.	eP	A	17	17	36	<u>Kurile Islands</u> 46.27 N 153.11 E H = 17 05 40.0 h = 42 km MB = 4.8 D = 77.88 Az = 336.1 (NEIS)
28.	eP	A	18	12	39.5	<u>Kurile Islands</u> 46.42 N 153.36 E H = 18 00 45.4 h = 46 km MB=4.9 MS=4.6 D = 77.82 Az = 336.2 (NEIS) PV A 2.4s 96.6nm M = 5.4 LmH B 15.5 0.7,um 5.1 LmV B 15 0.5,um 5.0
	LmH	B		48	.8	
	LmV	B		56	.0	
28.	eP	A	18	31	16	<u>Kurile Islands</u> 46.00 N 153.38 E H = 18 19 19.1 h = 40 km MB = 4.2 D = 78.21 Az = 336.3 (NEIS) traces

Day	Phase	h	m	s	Remarks	
28.	ePKP2	A	20	35	44	<u>Kermadec Islands Region</u> 31.32 S 177.83 W H = 20 15 08.2 h = 14 km MB = 4.9 MS = 5.1 (NEIS) D = 159.4
	LmH	B	21	57	.3	
	LmV	B	22	01	.3	
28.	eP	A	22	03	10	<u>Talau Islands</u> 2.75 N 125.67 E H = 21 49 21.6 h = 100 km MB = 5.6 D = 102.86 Az = 323.4 (NEIS) PV A 1.0s 15.7nm M = 5.8
29.	eP	A	01	21	17.5	<u>Turkey</u> 30.0 N 41.1 E H = 01 16 06 (BCIS) D = 23.72 LmH B 16s 0.3,um M = 3.9 LmV B 16 0.35,um 4.1
	LmH	B		32	.5	
	LmV	B		32	.5	
29.	eP	A	01	26	41	<u>Kurile Islands</u> 46.88 N 152.81 E H = 01 14 51.0 h = 54 km MB = 5.0 D = 77.25 Az = 335.9 (NEIS)
29.	eP	A	02	25	42.5	<u>Kurile Islands</u> 46.24 N 153.19 E H = 02 13 47.2 h = 42 km MB=4.8 MS=4.3 D = 77.94 Az = 336.1 (NEIS) h = 35 km PV A 0.9s 11.7nm M = 4.9
	epP	A		25	53	
29.	eP	AB	03	27	12	<u>Kurile Islands</u> 46.22 N 153.06 E H = 03 15 16.7 h = 38 km MB=5.7 MS=5.8 D = 77.92 Az = 336.1 (NEIS) PV A 2.0s 368.0nm M = 6.1 PV B 10 4.0,um 6.5 LmH B 17.5 14.7,um 6.4 LmV B 18 6.4,um 6.4
	e	B		27	48	
	eS	B		37	03	
	LmH	B	04	06	.6	
	LmV	B		06	.6	
29.	eP	A	04	11	27	<u>Kurile Islands</u> 46.21 N 153.22 E H = 03 59 28.8 h = normal MB = 4.3 D = 77.97 Az = 336.2 (NEIS)



Day	Phase	h	m	s	Remarks	
29.	+iP1	AB	07	28	22.5	<u>Kurile Islands</u> 46.12 N 153.09 E
	eP2	A	28	28		H = 07 16 26.1 h = normal MB=5.9 MS=6.2
	e	B	28	56		D = 78.02 Az = 336.1 (NEIS)
	eS	B	38	13		P1V A 1.3s 201.0nm M = 6.1
	LmV	B	08	05.9		P2V A 2.0 423.0nm 6.2
	LmH	B	06.1			P1V B 10 6.3/um 6.7
						LmH B 17 27.8/um 6.6 LmV B 19.5 21.4/um 6.5
29.	eP	A	09	40	44	<u>Kurile Islands</u> 46.33 N 153.33 E H = 09 28 48.4 h = normal MB=4.9 MS=5.5 D = 77.89 Az = 336.2 (NEIS)
29.	ePKP	A	12	11	50	<u>Tonga Islands</u> 17.96 S 175.23 W
	epPKP	A	12	57.5		H = 11 52 36.9 h = 260 km MB = 4.9 D = 146.93 Az = 352.0 (NEIS) h = 272 km PKPV A 1.3s 17.5nm
29.	eP	A	14	33	12.5	<u>Kurile Islands</u> 46.15 N 152.91 E
	LmH	B	15	09.8		H = 14 21 16.2 h = 36 km MB = 4.9
	LmV	B	10.8			D = 77.94 Az = 336.0 (NEIS) PV A 2.0s 42.7nm M = 5.1 LmH B 17 0.35/um 5.2 LmV B 18 0.5/um 5.4
29.	eP	A	19	21	54.5	<u>Kurile Islands</u> 45.99 N 153.18 E H = 19 09 57.7 h = 42 km MB = 4.6 D = 78.16 Az = 336.1 (NEIS)
29.	eP	A	20	02	38	<u>Kurile Islands</u> 45.98 N 153.01 E H = 19 50 41.4 h = normal MB = 4.9 D = 78.12 Az = 336.0 (NEIS)
29.	ePKIKP	AB	22	32	47.5	<u>Fiji Islands Region</u> 17.90 S 178.52 W
	ePKHKP	A	32	49		H = 22 14 12.8 h = 586 km MB = 5.4
	ePKP2	A	32	51.5		D = 146.34 Az = 348.3 (NEIS)
	e	A	33	57		PKHKPV A 1.4s 86.0nm
	e	A	35	05.5		

Day	Phase	h	m	s	Remarks	
30.	+iP	AB	05	20	29.0	<u>Hindu Kush Region</u> 36.35 N 70.76 E
	i	A	20	34.0		H = 05 12 40.6 h = 211 km MB = 6.5
	epP	B	21	16		D = 44.05 Az = 308.2 (NEIS)
	eiPP	B	22	18		PV A 1.4s 2260.0nm M = 6.4
	eiS	B	26	44		PV B 12 21.1/um 6.5
	eisS	B	28	04		SH B 18 57.2/um 7.0
	eSS	B	29	55		LmH B 19 88.6/um
	LmV	B	31.1			LmV B 12 45.5/um
	LmH	B	31.3			
	30.	ePKP	A	10	47	02
30.	eP	A	11	49	38	<u>West Pakistan</u> 35.54 N 71.51 E
	e	A	50	15		H = 11 41 27.4 h = 70 km MB = 5.3
	LmH	B	12	08.3		D = 45.03 Az = 308.9 (NEIS)
	LmV	B	12.6			PV A 1.6s 44.0nm M = 5.0
30.	ePKHKP	A	22	01	53	<u>Fiji Islands Region</u> 17.84 S 178.61 W
	epPKP	A	04	19.5		H = 21 43 18.8 h = 613 km MB = 5.3 D = 146.26 Az = 348.3 (NEIS)
30.	eP	A	22	51	39	<u>Kurile Islands</u> 46.22 N 153.17 E
	epP	A	51	52.5		H = 22 39 44.5 h = 42 km MB=5.0 MS=4.7 D = 77.95 Az = 336.1 (NEIS) h = 48 km PV A 1.3s 30.6nm M = 5.2
31.	ePKP2	A	22	51	37.5	<u>Kermadec Islands Region</u> 28.40 S 176.65 W H = 22 31 18.2 h = 58 km MB = 4.8 D = 156.92 Az = 346.5 (NEIS)

Day	Phase	h	m	s	Remarks	
1.	e	A	01	45	46	<u>Solomon Islands</u> 8.57 S 157.56 E H = 01 26 30.1 h = 30 km MB=4.8 MS=5.1 D = 129.48 Az = 332.5 (NEIS)
	LmV	B		45.5		
	LmH	B		45.6		
1.	eP	A	05	17	44	<u>Kodiak Island Region</u> 56.72 N 152.10 W H = 05 06 19.5 h = 24 km MB = 4.6 D = 72.15 Az = 10.8 (NEIS)
1.	ePKP	AB	05	18	48	<u>Loyalty Islands Region</u> 22.35 S 170.64 E H = 04 59 08.3 h = 52 km MB = 5.6 D = 147.34 Az = 335.0 (NEIS)
	eX	AB		19	29.5	
	eSKKS	B		28	56	
	LmH	B	06	43.0		PKPV A 2.0s 94.0nm
	LmV	B		46.5		PKPV B 8 1.0/um XV A 1.6 115.4nm XV B 8 1.6/um LmH B 17.5 7.5/um LmV B 17 10.6/um
1.	eP	AB	06	07	02	<u>Kodiak Island Region</u> 56.67 N 152.11 W H = 05 55 38.2 h = normal MB=5.7 MS=6.3 D = 72.21 Az = 10.8 (NEIS)
	ePP	A		09	33.5	PV A 1.3s 162.0nm M = 5.9 PPV A 1.3 43.7nm 5.5
1.	eP	A	06	18	44	<u>Kodiak Island Region</u> 56.59 N 152.39 W H = 06 07 17.0 h = 15 km MB = 4.6 D = 72.31 Az = 10.6 (NEIS)
1.	eP	A	06	28	28	<u>Kodiak Island Region</u> 56.65 N 152.07 W H = 06 17 02.3 h = 19 km MB = 4.5 D = 72.23 Az = 10.8 (NEIS)
1.	eP	A	06	59	42	<u>Kodiak Island Region</u> 56.71 N 152.20 W H = 06 48 16.3 h = 16 km MB = 4.4 D = 72.17 Az = 10.7 (NEIS)
1.	eP	AB	08	11	21	<u>Kodiak Island Region</u> 56.63 N 152.27 W H = 07 59 56.9 h = normal MB=5.2 MS=6.0
	eS	B		20	48	

Day	Phase	h	m	s	Remarks	
cont. 1.	LmH	B	08	47.7		D = 72.26 Az = 10.7 (NEIS)
	LmV	B		51.0		PV A 1.8s 60.9nm M = 5.4 PV B 5.5 0.45/um 5.8 LmH B 17 1.3/um 5.3 LmV B 16 1.4/um 5.4
1.	eP	A	09	47	32	<u>Zambia</u> 16.65 S 28.00 E H = 09 36 27.0 h = 14 km MB = 5.1 D = 68.54 Az = 348.9 (NEIS) PV A 1.4s 20.93nm M = 4.9
1.	e(Sg)	A	15	47	23.5	
1.	LmH	B	21	07.5		<u>South-East Indian Ridge</u> 41.96 S 88.4 E H = 19 51 31.3 h = 33 km MB = 5.0 (ISC) or <u>South-East Indian Ridge</u> 41.93 S 88.38 E H = 19 57 30.4 h = 33 km MB = 4.9 (ISC) D = 113.8 LmH B 18s 0.5/um M = 5.2 LmV B 17 0.6/um 5.3
	LmV	B		12.4		
1.	eP	AB	22	51	03	<u>Kurile Islands</u> 49.76 N 155.97 E H = 22 39 21.0 h = 41 km MB=5.3 MS=5.2 D = 75.44 Az = 337.5 (NEIS)
	e	A		51	37	
	LmH	B	23	26.5		LmH B 20s 2.2/um M = 5.5 LmV B 18 1.4/um 5.3
	LmV	B		28.7		
2.	e(P)	A	08	30	41	<u>Iran</u> 30.46 N 50.59 E H = 08 23 44.0 h = 44 km MB = 4.8 D = 35.28 Az = 316.1 (NEIS) LmH B 15s 0.4/um M = 4.3 LmV B 14.5 0.6/um 4.6
	LmH	B		48.8		
	LmV	B		48.8		
2.	eP	A	10	03	04.5	<u>South of Honshu, Japan</u> 33.38 N 139.37 E H = 09 50 33.9 h = 38 km MB=4.8 MS=4.5 D = 84.48 Az = 329.6 (NEIS)

Day	Phase	h	m	s	Remarks	
2.	eP	A	10	34	32	<u>Crete</u> 35.57 N 26.71 E H = 10 30 14.4 h = 50 km MB = 4.3 D = 18.61 Az = 328.7 (NEIS)
2.	ePKP2	A	10	42	04	<u>Kermadec Islands Region</u> 31.47 S 177.82 W H = 10 21 30 h = 29km D = 159.60 Az = 343 (ISC)
2.	eP	A	14	45	59	<u>South of Honshu, Japan</u> 33.35 N 139.41 E H = 14 33 26.6 h = 24 km MB=5.1 MS=4.5 D = 84.53 Az = 329.6 (NEIS)
	LmH	B	15	23.2		LmH B 15s 0.4/um M = 4.9
	LmV	B	28.8			LmV B 14 0.3/um 4.9
2.	eP	A	16	17	56.5	<u>South of Honshu, Japan</u> 33.40 N 139.28 E H = 16 05 25.1 h = 34 km MB = 4.8 D = 84.43 Az = 329.6 (NEIS)
2.	eP	A	16	46	25	<u>North Atlantic Ridge</u> 32.71 N 39.76 W H = 16 38 40.0 h = normal MB = 4.1 D = 41.43 Az = 48.7 (NEIS)
	LmH	B	59.0			PV A traces
	LmV	B	17	01.0		LmH B 14s 0.3/um M = 4.4 LmV B 16 0.5/um 4.5
2.	ePKP	A	18	18	10	<u>Tonga Islands</u> 17.30 S 175.28 W H = 17 59 00.9 h = 281 km MB = 4.9 D = 146.28 Az = 352.1 (NEIS)
	epPKP	A	19	20		h = 282 km PKPV A traces
3.	eP	A	04	17	16	<u>Kashmir-Tibet Border Region</u> 35.45 N 80.64 E H = 04 08 13.8 h = 20 km MB = 5.0 D = 50.85 Az = 310.0 (NEIS)
	LmH	B	37.4			LmH B 16s 0.8/um M = 4.8
	LmV	B	41.0			LmV B 15 0.7/um 4.9

Day	Phase	h	m	s	Remarks	
3.	e(PKP)	A	11	54	44.5	<u>New Hebrides Islands</u> 19.01 S 169.54 E H = 11 35 42.6 h = 275 km MB = 4.8 D = 143.89 Az = 336.0 (NEIS)
3.	eP	A	12	43	56.5	<u>Kurile Islands</u> 46.64 N 152.79 E H = 12 32 05.3 h = 56 km MB = 4.8 D = 77.46 Az = 335.9 (NEIS)
3.	eP	A	13	57	33.5	<u>Northern Sumatra</u> 0.42 N 98.66 E H = 13 44 45.9 h = normal MB = 5.0 (NEIS) D = 87.80
3.	eP	A	14	06	07	<u>Kurile Islands</u> 45.67 N 149.62 E H = 13 54 26.1 h = 142 km MB = 4.4 D = 77.40 Az = 334.1 (NEIS) PV A traces
3.	e	A	15	00	04.5	<u>Tonga</u> 15.6 S 173.9 W H = 14 40 09.7 h = 0 km MB = 4.5 D = 144.77 Az = 354 (ISC)
3.	eP1	AB	18	28	50.5	<u>Honshu, Japan</u> 36.00 N 139.82 E H = 18 16 34.0 h = 58 km MB = 5.6 D = 82.42 Az = 329.7 (NEIS)
	+iP2	A	28	53.5		P1V A traces
	ePP	AB	32	02.5		P1V B 5s 1.0/um M = 6.1
	eS	B	39	04		P2V A 1.8 236.0nm 5.9
	eSS	C	44	24		PPV A 1.5 55.3nm 5.7
	LmH	B	19	09.6		LmH B 16.2 2.0/um 5.6
	LmV	B	09.7			LmV B 15.5 2.4/um 5.6
4.	eP	A	00	45	51	<u>Kurile Islands</u> 46.09 N 153.44 E H = 00 33 56.0 h = 60 km MB = 4.5 D = 78.15 Az = 336.3 (NEIS)
4.	LmH	B	11	20.3		LmH B 20s 0.4/um
	LmV	B	21.0			LmV B 20 0.5/um

Day	Phase	h	m	s	Remarks	
4.	+iP	A	15	11	38.7	<u>Eastern Caucasus</u> 42.34 N 45.93 E
	eS	B	16	16		H = 15 06 17.1 h = normal MB=5.4 MS=5.0
	LmH	B	22	4		D = 24.86 Az = 301.4 (NEIS)
	LmV	B	23	1		PV A 1.2s 187.0nm M = 5.5 SH B 7.5 1.6/um 5.5 LmH B 14 2.0/um 4.8 LmV B 12 1.4/um 4.8
4.	eP	A	21	47	41	<u>Kodiak Island Region</u> 56.76 N 152.01 W H = 21 36 16.7 h = 40 km MB = 4.3 (NEIS) D = 72.11 traces
5.	eP	A	13	27	06	<u>Southern Iran</u> 27.98 N 53.55 E
	LmH	B	47	8		H = 13 19 39.5 h = 11 km MB = 5.3
	LmV	B	47	8		D = 38.85 Az = 317.3 (NEIS) PV A 1.1s 16.1nm M = 4.7
5.	ePn	A	18	39	27	<u>Northern Italy</u> 44.4 N 7.5 E
	eSn	A	40	36		H = 18 37 46 (BCIS)
	eSg	A	41	35		D = 6.87 PnV A traces
6.	eP	A	02	48	33.5	<u>Southern Alaska</u> 60.25 N 153.32 W
	ipP	A	49	06	5	H = 02 37 42.3 h = 136 km MB = 5.0 D = 68.80 Az = 10.2 (NEIS) h = 133 km pPV A 1.4s 32.6nm
6.	eP1	A	11	17	00	<u>North of Svalbard</u> 80.0 N 3.0 E
	eP2	A	17	08		H = 11 10 52 (BCIS)
	LmV	C	34			D = 29.6
	LmH	C	37			P1V A 1.1s 20.2nm M = 4.8 P2V A 1.8 47.3nm 5.0 LmV C 14 0.3/um 4.2
6.	eP	A	13	11	23	<u>Kodiak Island Region</u> 56.55 N 152.47 W H = 12 59 55.6 h = 16 km MB=4.5 MS=4.7 D = 72.36 Az = 10.6 (NEIS)

Day	Phase	h	m	s	Remarks	
6.	eP	A	17	00	57	<u>Kurile Islands</u> 46.76 N 150.42 E H = 16 49 22.2 h = 166 km MB = 5.2 D = 76.67 Az = 334.5 (NEIS) PV A 1.6s 49.5nm M = 5.0
6.	eP	A	18	16	49	<u>Kodiak Island Region</u> 56.72 N 152.41 W H = 18 05 25.3 h = normal MB = 4.6 D = 72.19 Az = 10.6 (NEIS)
6.	ePKIKP	AB	18	57	56	<u>Tonga Islands</u> 21.76 S 175.16 W
	ePKHKP	A	58	02		H = 18 38 13.1 h = 48 km MB=5.7 MS=5.7
	eipPKHKP	A	58	17	5	D = 150.68 Az = 351.2 (NEIS)
	LmV	B	20	14	3	h = 57 km
	LmH	B	15	2		PKIKPV A 1.3s 17.5nm PKHKPV A 1.5 126.0nm LmH B 18.7 1.8/um M = 5.8 LmV B 18 2.0/um 6.0
6.	eP	A	20	18	03.5	<u>Iran-USSR Border Region</u> 37.8 N 58.4 E H = 20 11 05 h = 0 km MB = 4.4 D = 35.27 Az = 307 (ISC) PV A 1.0s 11.8nm M = 4.6
7.	eP	A	00	57	16.5	<u>Greenland Sea</u> 73.46 N 6.89 E H = 00 52 14.9 h = normal MB = 4.6 D = 22.99 Az = 172.3 (NEIS) PV A 1.0s 19.7nm M = 4.6
7.	eP	A	01	05	31	<u>Greenland Sea</u> 73.14 N 7.30 E H = 01 00 28.8 h = normal MB = 4.1 D = 22.65 Az = 172.9 (NEIS)
7.	eP	A	01	07	15	<u>Norwegian Sea</u> 70.5 N 9.7 E H = 01 02 44.5 h = 33 km D = 19.91 Az = 176 (ISC)
7.	eP	A	01	20	11.5	<u>Greenland Sea</u> 73.4 N 8.0 E H = 01 15 11 h = 33 km D = 22.87 Az = 174 (ISC)

Day	Phase	h	m	s	Remarks	
7.	eP	A	01	52	49.5	<u>Greenland Sea</u> 73.30 N 6.68 E H = 01 47 48.2 h = normal MB = 4.5 D = 22.84 Az = 171.9 (NEIS) PV A 1.1s 14.1nm M = 4.4
7.	eP	A	03	58	10	<u>Norwegian Sea</u> 70.7 N 10.2 E H = 03 53 36 h = 33 km D = 20.14 Az = 177 (ISC)
7.	eP	A	04	01	02	<u>Greenland Sea</u> 73.37 N 7.1 E H = 03 55 54.5 h = 0 km D = 22.89 Az = 173 (ISC)
7.	eP	A	08	32	25.5	<u>Kodiak Island Region</u> 56.78 N 152.30 W H = 08 21 01.8 h = 32 km MB = 4.6 D = 72.11 Az = 10.7 (NEIS) PV A 1.0s 13.8nm M = 4.9
7.	+eP	AB	08	35	02	<u>Kodiak Island Region</u> 56.65 N 152.31 W H = 08 23 36.8 h = normal MB=4.9 MS=5.5 D = 72.25 Az = 10.7 (NEIS) PV A 1.0s 29.5nm M = 5.2 LmH B 18.5 1.0/um 5.1 LmV B 18 1.2/um 5.3
	eS	B		44	27	
	LmH	B		09	09.5	
	LmV	B			13.8	
7.	eP	A	08	38	11	<u>Kodiak Islands Region</u> 56.7 N 152.3 W H = 08 26 42 h = 0 km MB = 5.2 D = 72.17 Az = 11 (ISC) PV A 1.4s 23.2nm
7.	ePn	A	15	40	09.5	D c. 5
	eSn	A		41	08	
	eSg	A		41	36	
7.	eP	A	19	03	35	<u>Talau Islands</u> 3.07 N 125.61 E H = 18 49 54.9 h = 158 km MB = 5.4 D = 102.56 Az = 323.4 (NEIS) PV A 1.5s 20.1nm M = 5.7

Day	Phase	h	m	s	Remarks	
7.	eP	A	21	16	41	<u>Afghanistan-USSR Border Region</u> 36.16 N 71.00 E H = 21 08 43.3 h = 144 km MB = 4.8 D = 44.32 Az = 308.4 (NEIS)
8.	eP	A	01	27	58.5	<u>Greenland Sea</u> 73.28 N 6.9 E H = 01 22 52.8 h = 0 km MB = 4.0 D = 22.81 Az = 172 (ISC)
8.	eP	AB	01	30	17	<u>Greenland Sea</u> 73.20 N 6.19 E H = 01 25 15.8 h = normal MB=5.0 MS=5.2 D = 22.76 Az = 171.1 (NEIS) PV A 1.3s 50.2nm M = 4.8 SH B 15 2.2/um 5.3 LmH B 15 2.8/um 4.8 LmV B 16 3.3/um 5.0
	eS	B		34	26	
	LmH	B			39.8	
	LmV	B			39.9	
8.	ePKHKP	A	10	40	50	<u>Fiji Islands Region</u> 19.76 S 177.81 W H = 10 22 06.3 h = 569 km MB = 5.0 D = 148.29 Az = 348.6 (NEIS) PKHKPV A 1.6s 46.7nm
8.	eP	AB	19	10	01	<u>Greenland Sea</u> 73.17 N 5.86 E H = 19 05 00.9 h = normal MB=4.8 MS=4.6 D = 22.75 Az = 170.5 (NEIS) PV A 1.8s 54.1nm M = 4.7 PV B 4.8 0.45/um 5.2 LmH B 12 0.35/um 4.0
	eS	B		14	12	
	LmH	B			14.4	
8.	eP	A	19	29	19	<u>Taiwan Region</u> 24.57 N 122.69 E H = 19 16 45.9 h = 32 km MB=5.4 MS=6.0 D = 83.66 Az = 323.3 (NEIS) PV A 1.4s 23.2nm M = 5.1 SH B 15 0.9/um 5.7 LmH B 15.7 24.8/um 6.7 LmV B 14 17.1/um 6.6
	eS	B		39	48	
	LmH	B		20	05.1	
	LmV	B			10.1	

Day	Phase	h	m	s	Remarks	
8.	eP	AB	23	29	44	<u>Greenland Sea</u> 73.40 N 6.49 E H = 23 24 42.4 h = normal MB=4.7 MS=4.5 D = 22.94 Az = 171.6 (NEIS) PV A 1.4s 27.9nm M = 4.5 LmH B 16 0.4/um 4.0 LmV B 15 0.5/um 4.2
	eS	B	33	54		
	LmH	B	39.3			
	LmV	B	39.3			
9.	e	A	02	44	22	<u>Ascension Island Region</u> 10.46 S 13.10 W H = 02 33 40.2 h = normal MB = 4.7 D = 64.55 Az = 17.1 (NEIS)
9.	eP	A	05	06	32.5	<u>Peru-Brazil Border Region</u> 8.48 S 74.28 W H = 04 53 30.7 h = 159 km MB = 5.6 D = 93.89 Az = 39.5 (NEIS)
	e	A	06	50		
9.	eP	A	20	18	49	<u>Albania</u> 40.15 N 19.9 E H = 20 16 02 h = 47 km D = 11.98 Az = 334 (ISC) LmH B 9s 0.2/um
	e	A	21	18		
	LmH	B	24.5			
	LmV	B	24.6			
9.	ePn	A	22	19	51	<u>Federal Republic of Germany</u> 51.50 N 7.10 E H = 22 19 04.0 h = 0 km D = 2.97 Az = 104.9 (NEIS)
	eSg	A	20	38		
9.	eP	A	22	31	54	<u>Albania</u> 40.01 N 19.74 E H = 22 28 59.7 h = 0 km D = 12.06 Az = 334 (ISC)
	e	A	34	56		
10.	ePKHKP	A	05	38	19	<u>Tonga Region</u> 22.1 S 174.4 W H = 05 18 32 h = 76 km D = 151.12 Az = 352 (ISC)
10.	iPn	A	08	47	51	<u>Říbram, (PRU)</u>
10.	ePKP	A	10	06	15	<u>Fiji Islands Region</u> 18.54 S 179.47 W H = 09 47 39.2 h = 595 km MB = 5.1
	e	A	06	19.5		

Day	Phase	h	m	s	Remarks	
cont. 10.	e	A	10	06	19.5	D = 146.77 Az = 347.1 (NEIS) PKPV A 1.8s 67.6 nm
10.	ePn	A	11	00	54	
	eSg	A	01	32.5		
10.	ePKIKP	AB	11	41	03.5	<u>Fiji Islands Region</u> 21.39 S 179.16 W H = 11 22 26.4 h = 602 km MB = 5.5 D = 149.59 Az = 346.4 (NEIS) PKIKPV A 1.8s 87.9nm PKHKPV A 1.6 368.0nm PKP2V A 1.6 93.4nm
	eiPKHKP	A	41	09		
	ePKP2	A	41	16.5		
	epPKP	A	43	30		
10.	eP	A	12	52	31	<u>United Kingdom</u> 57.15 N 5.21 W H = 12 49 38.0 h = 10 km MB = 4.3 (NEIS) D = 11.85 PV A 0.8s 15.4nm M = 5.3 LmH B 12.5 0.8/um 3.9 LmV B 12 0.3/um
	eS	A	54	48		
	LmH	B	57.5			
	LmV	B	58.9			
10.	epP	A	15	14	53	<u>Near East Coast of Honshu, Japan</u> 40.14 N 142.42 E H = 15 02 35.0 h = 50 km MB = 4.7 D = 79.85 Az = 330.7 (NEIS) pPV A 1.8s 23.6nm
10.	e	A	17	03	20	<u>Yougoslavia</u> 42 N 18 E H = 16 59 14 MB = 2.7 (NORSAR) D = 9.8
10.	ePKP	A	19	13	44.5	<u>Samoa Islands Region</u> 16.14 S 172.82 W H = 18 54 09.7 h = 42 km MB = 4.3 D = 145.39 Az = 355.0 (NEIS)
10.	eP	A	19	38	35	<u>Kurile Islands</u> 46.24 N 153.19 E H = 19 26 36.8 h = normal MB = 4.4 D = 77.94 Az = 336.1 (NEIS)

Day	Phase	h	m	s	Remarks	
11.	eP	AB	01	22	06	<u>Tadzhik-Sinkiang Border Region</u>
	ePP	B		24	00	39.46 N 73.83 E
	eS	B		28	40	H = 01 13 55.5 h = 9 km MB=6.4 MS=7.3
	eSS	B		32	50	D = 44.12 Az = 306.0 (NEIS)
	LmH	B		41.5		PV A 1.2s 732.0nm M = 6.4
	LmV	B		41.7		PV B 10 15.0/um 6.8 PPV B 12 26.2/um 7.0 SH B 16 45.1/um 7.0 LmH B 20 1794.0/um 8.1 LmV B 18 648.4/um 7.7
11.	eP	A	02	37	55	<u>Tadzhik-Sinkiang Border Region</u> 39.39 N 73.82 E H = 02 29 48.4 h = normal MB = 4.7 D = 44.15 Az = 306.0 (NEIS)
11.	eP	A	02	45	17.5	<u>Tadzhik-Sinkiang Border Region</u> 39.37 N 73.55 E H = 02 37 11.1 h = normal MB = 5.0 D = 44.00 Az = 306.0 (NEIS)
11.	eP	A	04	36	54.5	<u>Tadzhik-Sinkiang Border Region</u> 39.29 N 73.89 E H = 04 28 46.9 h = normal MB = 5.1 D = 44.26 Az = 306.1 (NEIS)
11.	eP	A	05	20	40	<u>Tadzhik-Sinkiang Border Region</u>
	ePP	A		22	26.5	39.32 N 73.78 E H = 05 12 33.3 h = normal MB = 5.4 D = 44.17 Az = 306.1 (NEIS) PV A 1.2s 44.7nm M = 5.2 PPV A 1.7 60.6nm 5.2 LmH B 18.5 4.3/um 5.4 LmV B 14 1.9/um 5.2
11.	eP1	A	05	27	40	<u>Tadzhik-Sinkiang Border Region</u>
	eP2	A		27	44	39.36 N 73.84 E

Day	Phase	h	m	s	Remarks	
cont. 11.	eP3	A	05	27	46.5	H = 05 19 33.2 h = 32 km MB = 5.2 D = 44.19 Az = 306.1 (NEIS) P3V A 1.2s 24.4nm M = 4.9
11.	eP	A	05	32	00	<u>Tadzhik-Sinkiang Border Region</u>
	ePP	A		33	45	39.42 N 73.77 E
	LmH	B		49.3		H = 05 23 52.5 h = 27 km MB = 5.6
	LmV	B		52.4		D = 44.11 Az = 306.0 (NEIS) PV A 1.1s 88.7nm M = 5.5 PPV A 1.8 74.3nm 5.3 LmH B 14 5.0/um 5.6 LmV B 12 2.4/um 5.4
11.	eP	A	07	10	18	<u>Tadzhik-Sinkiang Border Region</u>
	LmH	B		29.3		39.35 N 73.85 E
	LmV	B		30.1		H = 07 02 08.5 h = normal MB=5.2 MS=5.4 D = 44.20 Az = 306.1 (NEIS) PV A 0.9s 19.5nm M = 4.9 LmH B 17 8.5/um 5.7 LmV B 14 4.0/um 5.6
11.	eP	A	08	11	05	<u>Tadzhik-Sinkiang Border Region</u>
	ePP	A		12	53	39.29 N 73.92 E H = 08 02 54.0 h = 12 km MB = 5.1 D = 44.28 Az = 306.2 (NEIS)
11.	eP	A	09	17	10.5	<u>Tadzhik-Sinkiang Border Region</u>
	e	A		21	45	39.24 N 73.86 E H = 09 08 58.5 h = 29 km MB = 5.1 D = 44.27 Az = 306.2 (NEIS) PV A 1.8s 33.8nm M = 4.9
11.	LmH	B	12	33.7		<u>Tadzhikistan-Sinkiang Border Region</u> 39.33 N 73.79 E H = 12 06 25.1 h = 52 km MB = 4.4 (ISC) D = 44.3 LmH B 16s 0.5/um

Day	Phase	h	m	s	Remarks
11.	LmH	B	13	48.9	<u>Tadzhikistan-Sinkiang Border Region</u> 39.18 N 73.78 E H = 13 21 20 h = 53 km MB = 4.2 (ISC) D = 44.3 LmH B 16s 0.6/um LmV B 14 0.3/um
	LmV	B		49.4	
11.	eP1	AB	20	13 36	<u>Tadzhik-Sinkiang Border Region</u> 39.47 N 73.65 E H = 20 05 30.1 h = normal MB=5.8 MS=5.7 D = 44.00 Az = 306.0 (NEIS) P1V A 1.2s 67.1nm M = 5.3 P2V A 1.8 270.0nm 5.7 LmH B 17 21.4/um 6.1 LmV B 13 11.7/um 6.1
	iP2	A	13	38.2	
	ePP	A	15	22	
	e	B	15	40	
	eS	B	20	10	
	eSS	B	23	20	
	LmH	B	32.6		
	LmV	B	33.4		
11.	ePKP	A	21	28 45	<u>Fiji Islands Region</u> 20.2 S 177.7 W H = 21 09 02.6 h = 0 km MB = 4.8 D = 148.77 Az = 349 (ISC)
11.	eP	AB	21	29 43	<u>Tadzhik-Sinkiang Border Region</u> 39.47 N 73.63 E H = 21 21 33.8 h = 9 km MB=5.9 MS=6.1 D = 43.99 Az = 306.0 (NEIS) PV A 1.9s 37.2nm M = 5.9 PPV A 2.1 498.3nm 6.0 SH B 11 2.0/um 5.8 LmH B 16 33.2/um 6.4 LmV B 12 30.4/um 6.5
	ePP	AB	31	32.5	
	eS	B	36	16	
	eSS	B	39	28	
	LmH	B	48.9		
	LmV	B	49.9		
11.	eP	A	21	58 14	<u>Tadzhik-Sinkiang Border Region</u> 39.44 N 73.61 E H = 21 50 07.8 h = normal MB = 4.8 D = 43.99 Az = 306.0 (NEIS)
11.	eP	A	22	04 37	<u>Tadzhik-Sinkiang Border Region</u> 39.59 N 73.55 E H = 21 56 29.9 h = 33 km MB = 4.8 D = 43.87 Az = 305.8 (NEIS)

Day	Phase	h	m	s	Remarks
11.	eP	A	22	18 36	<u>Tadzhik-Sinkiang Border Region</u> 39.42 N 73.71 E H = 22 10 27.1 h = normal MB = 4.6 D = 44.07 Az = 306.0 (NEIS)
11.	eP	A	23	27 04	<u>Tadzhik-Sinkiang Border Region</u> 39.46 N 73.60 E H = 23 18 58.3 h = normal MB = 5.1 D = 43.98 Az = 306.0 (NEIS) PV A 1.2s 20.3nm M = 4.8
12.	ePKP	AB	03	12 12	<u>Fiji Islands Region</u> 15.98 S 179.41 W H = 02 52 42.4 h = 70 km MB = 5.7 D = 144.30 Az = 348.0 (NEIS) PV A 2.2s 76.4nm LmH B 19 2.2/um LmV B 19 1.7/um
	LmH	B	04	20.8	
	LmV	B		24.2	
12.	eP	A	11	35 07	<u>Hokkaido, Japan Region</u> 41.47 N 142.00 E H = 11 23 12.5 h = 71 km MB = 4.8 D = 78.53 Az = 330.3 (NEIS)
12.	eP	A	14	23 14.5	<u>Tadzhik-Sinkiang Border Region</u> 39.39 N 73.86 E H = 14 14 54.1 h = normal MB=5.1 MS=4.7 D = 44.18 Az = 306.1 (NEIS) PV A 1.6s 22.0nm M = 4.7 LmH B 18 1.6/um 5.0 LmV B 13 0.8/um 4.9
	LmH	B		42.0	
	LmV	B		43.0	
12.	eP	A	14	26 45	<u>North of Ascension Island</u> 0.27 S 16.53 W H = 14 17 04.0 h = 27 km MB = 4.9 D = 56.10 Az = 21 (ISC)
12.	eP	A	21	25 58.5	<u>Southern Sinkiang Prov., China</u> 39.22 N 74.04 E H = 21 17 47.6 h = 27 km MB=5.2 MS=5.4 D = 44.40 Az = 306.2 (NEIS) LmH B 17s 2.6/um M = 5.2 LmV B 16 1.3/um 5.0
	LmH	B		45.1	
	LmV	B		46.3	



Day	Phase	h m s	Remarks
12.	eP	A 22 05 25.5	<u>Tadzhik-Sinkiang Border Region</u> 39.36 N 73.93 E H = 21 57 17.6 h = normal MB = 5.0 D = 44.24 Az = 306.1 (NEIS)
13.	eP	AB 03 58 13	<u>Andreanof Islands, Aleutian Is.</u> 51.53 N 178.11 W H = 03 46 20.3 h = 52 km MB = 5.8 D = 77.87 Az = 353.7 (NEIS) PV A 1.8s 162.0nm M = 5.7 PV B 10 1.8/um 6.0 LmH B 18 6.3/um 6.0 LmV B 17.5 6.3/um 6.0
	eS	B 04 08 06	
	LmH	B 37.1	
	LmV	B 40.6	
13.	ePKP	A 06 12 41.5	<u>Fiji Islands Region</u> 16.06 S 179.38 W H = 05 53 07.4 h = 29 km MB=5.3 MS=5.4 D = 144.38 Az = 348.0 (NEIS) PKPV A 2.0s 29.9nm
13.	ePKP	A 07 39 53.5	<u>Fiji Islands Region</u> 15.52 S 179.11 W H = 07 20 17.0 h = normal MB=4.9 MS=5.2 D = 143.91 Az = 348.4 (NEIS) PV A 2.2s 76.4nm
13.	e(P)	A 12 59 04	
13.	ePKP	A 13 12 21	<u>Fiji Islands Region</u> 15.82 S 179.48 W H = 12 52 47.3 h = 55 km MB = 5.4 D = 144.13 Az = 347.9 (NEIS) LmH B 17s 1.7/um LmV B 17 1.7/um
	LmV	B 14 28.8	
	LmH	B 29.6	
13.	e	A 14 01 15	<u>Fiji Region</u> 15.95 S 179.29 W H = 13 41 29 h = 31 km MB = 4.9 D = 144.29 Az = 348 (ISC)
13.	eP	A 15 04 31.5	

190

Day	Phase	h m s	Remarks
13.	ePKIKP	A 15 22 02	<u>New Britain Region</u> 5.33 S 150.79 E H = 15 03 14.8 h = 100 km MB = 5.5 D = 123.43 Az = 330.1 (NEIS)
13.	eP	A 21 27 28	<u>Tadzhik-Sinkiang Border Region</u> 39.35 N 73.89 E H = 21 19 17.5 h = normal MB = 4.7 D = 44.23 Az = 306.1 (NEIS) traces
14.	eP	A 01 39 12	<u>Tadzhik-Sinkiang Border Region</u> 39.39 N 73.76 E H = 01 31 02.5 h = normal MB = 4.5 D = 44.12 Az = 306.0 (NEIS)
14.	ePKP2	A 03 33 21	<u>Kermadec Islands Region</u> 31.6 S 178.0 W H = 03 12 35 h = 0 km D = 159.70 Az = 342 (ISC) traces
14.	+eP	AB 05 46 46.5	<u>Andreanof Islands, Aleutian Is.</u> 51.56 N 178.15 W H = 05 34 54.4 h = 56 km MB = 5.7 D = 77.83 Az = 353.7 (NEIS) PV A 1.5s 105.0nm M = 5.6 LmH B 19 1.37/um LmV B 20 1.2/um
	LmH	B 06 25.5	
	LmV	B 25.5	
14.	+eP	A 07 01 24	<u>Hokkaido, Japan Region</u> 41.13 N 142.78 E H = 06 49 21.7 h = 41 km MB = 5.3 D = 79.13 Az = 330.8 (NEIS) PV A 1.4s 32.6nm M = 5.1
	LmH	B 39.5	
14.	eP	A 15 06 54	<u>Western Siberia</u> 68.91 N 75.90 E H = 14 59 58.3 h = 0 km MB = 5.5 D = 35.03 Az = 272.2 (NEIS) PV A 1.1s 48.5nm M = 5.2 Probably underground explosion M=5.8 (UPP)
	e	A 07 10	

191

Day	Phase	h	m	s	Remarks	
14.	eP	A	16	09	20	<u>Crete</u> 35.46 N 23.07 E H = 16 05 19.5 h = 60 km MB = 4.2 D = 17.30 Az = 334.8 (NEIS)
14.	ePKP	A	21	34	13	<u>Tonga Islands</u> 15.92 S 173.13 W H = 21 14 37.7 h = normal MB = 4.5 MS=4.3 D = 145.16 Az = 354.7 (NEIS)
	e	A		34	22	
	e	A		34	24	
	LmH	B	22	34.0		PV A 1.5s 22.5nm
	LmV	B		34.8		LmH B 18 1.4/um M = 5.6 LmV B 15 0.6/um 5.5
14.	eP	A	22	15	02	<u>Tadzhik-Sinkiang Border Region</u> 39.20 N 73.87 E H = 22 06 52.9 h = normal MB = 5.0 D = 44.30 Az = 306.2 (NEIS)
15.	ePKHKP	A	01	39	00	<u>Tonga Islands Region</u> 22.09 S 175.68 W H = 01 19 24.8 h = 170 km MB = 4.8 D = 150.93 Az = 350.4 (NEIS)
	ePKP2	A		39	11	PKHKPV A 1.7s 21.2nm
15.	ePKIKP	A	03	55	03.5	<u>Solomon Islands</u> 9.05 S 159.13 E H = 03 35 58.0 h = 59 km MB = 5.5 D = 130.62 Az = 333.2 (NEIS)
	e	A		55	36	
	ePP	A		57	18	
	LmH	B	04	57.4		PPV A 1.8s 40.5nm M = 5.2
	LmV	B		57.5		
15.	ePKHKP	A	08	47	16	<u>Fiji Region</u> 20.09 S 177.5 W H = 08 28 31.2 h = 554 km MB = 4.4 D = 148.65 Az = 349 (ISC)
15.	ePn	A	17	17	53	<u>Switzerland</u> 46.5 N 7.3 E H = 17 16 20 (BCIS) D = 5.02
	e	A		18	00	
	ePg	A		18	15	
	eSg	A		19	00	

Day	Phase	h	m	s	Remarks	
16.	eP	A	00	19	14.5	<u>Tadzhik-Sinkiang Border Region</u> 39.28 N 73.84 E H = 00 11 08.0 h = 50 km MB = 4.9 D = 44.23 Az = 306.1 (NEIS) PV A 1.0s 15.7nm M = 4.7
16.	eP	A	01	59	29	<u>Kurile Islands</u> 46.78 N 153.10 E H = 01 47 35.1 h = normal MB = 4.4 D = 77.42 Az = 336.0 (NEIS)
16.	ePKHKP	A	07	23	00.5	<u>Fiji Islands Region</u> 20.44 S 178.38 W H = 07 04 09.6 h = 503 km MB = 4.6 D = 148.84 Az = 347.7 (NEIS)
	ePKP2	A		23	06.5	PKHKPV A 1.2s 24.4nm
16.	+eP	AB	09	53	26	<u>Andreanof Islands, Aleutian Is.</u> 51.50 N 177.83 W H = 09 41 31.7 h = 46 km MB=5.7 MS=5.8 D = 77.92 Az = 353.9 (NEIS)
	ePP	B		56	20	
	ePPP	B		58	12	
	eS	B	10	03	16	
	LmH	B		31.0		PV A 1.6s 99.0nm M = 5.6
	LmV	B		37.7		PV B 9 1.1/um 5.8 LmH B 20 4.6/um 5.8 LmV B 18 3.3/um 5.7
16.	e(Sg)	A	12	36	35	
16.	e(PKP2)	A	17	16	37	<u>Fiji Islands Region</u> 19.81 S 177.82 W H = 16 57 36.4 h = 435 km MB = 4.7 D = 148.33 Az = 348.5 (NEIS)
16.	eP	A	19	57	27	<u>Philippine Islands Region</u> 6.17 N 126.96 E H = 19 43 46.1 h = 97 km MB = 5.4 D = 100.87 Az = 324.1 (NEIS)
17.	+eP1	AB	05	24	07.5	<u>Sakhalin Island</u> 54.93 N 143.95 E H = 05 13 08.1 h = 1 km MB=5.4 MS=4.9 D = 67 53 Az = 329.4 (NEIS)
	eP2	AB		24	12	
	LmH	B		57.5		

Day	Phase	h	m	s	Remarks
cont. 17.	LmV	B	05	57.7	P1V A 1.3s 43.7nm M = 5.5 P2V A 1.5 70.4nm 5.7 LmH B 15 0.6/um 5.0 LmV B 14 0.8/um 5.1
17.	LmH	C	17	23.0	<u>Molucca Passage</u> 1.04 N 126.10 E
	LmV	C		32.5	H = 16 18 23.1 h = 70 km MB = 5.2 (ISC) D = 104.5 LmV C 24s 0.3/um
17.	eP	A	23	59 07.5	<u>Tadzhik-Sinkiang Border Region</u>
	LmH	B	24	18.0	39.23 N 73.91 E
	LmV	B		18.8	H = 23 50 58.9 h = 32 km MB=5.0 MS=5.3 D = 44.30 Az = 306.2 (NEIS) PV A 1.6s 13.7nm M = 4.5 LmH B 18 3.4/um 5.3 LmV B 18 1.4/um 5.0
18.	eP diff	B	10	59 06	<u>Near Coast of Central Chile</u>
	ePKIKP	A	11	02 54.5	38.45 S 73.43 W
	ePP	AB		03 50	H = 10 44 12.8 h = 36 km MB=5.9 MS=7.1
	e	A		06 18	D = 115.75 Az = 44.8 (NEIS)
	eS diff	B		11 50	PdiffV B 15s 1.8/um
	iPS	B		13 44	PKIKPV A 2.0 55.6nm
	LmH	B		49.0	PPV A 4.5 1410.0nm M = 7.0
	LmV	B		55.0	LmH B 21 80.0/um 7.3 LmV B 18 87.0/um 7.4
18.	eP	A	16	11 27	<u>Tadzhik-Sinkiang Border Region</u>
					39.41 N 73.79 E H = 16 03 18.3 h = 21 km MB = 4.7 D = 44.12 Az = 306.0 (NEIS)
18.	ePcP	A	17	28 36	<u>Rat Islands, Aleutian Is.</u>
					50.55 N 175.10 E H = 17 16 26.0 h = normal MB=5.0 MS=4.7 D = 78.20 Az = 349.3 (NEIS)

Day	Phase	h	m	s	Remarks
18.	LmH	B	21	02.0	<u>Off Coast of Southern Chile</u>
	LmV	B		02.0	45.71 S 76.5 W H = 19 53 36 h = 107 km MB = 4.6 (ISC) D = 122.3 LmH B 20s 0.4/um LmV B 19 0.55/um
18.	LmH	C	24	16.0	<u>Off Coast of Southern Chile</u>
	LmV	C		21.0	41.62 S 76.32 W H = 23 07 49.0 h = 27 km MB = 5.2 (ISC) D = 119.4 LmH C 19s 0.25/um M = 4.9 LmV C 18 0.35/um 5.0
19.	eP	A	12	30 05.5	<u>South of Honshu, Japan</u>
	LmH	B	13	07.3	33.31 N 139.49 E
	LmV	B		12.2	H = 12 17 32.5 h = 23 km MB=5.3 MS=4.6 D = 84.60 Az = 329.7 (NEIS) PV A 1.4s 39.6nm M = 5.5 LmH B 14 0.9/um 5.3 LmV B 12 0.5/um 5.2
19.	eP	A	20	07 25	<u>Off Coast of Central America</u>
	epP	A		07 36	12.31 N 88.93 W
	e(PP)	A		11 02	H = 19 54 44.8 h = 67 km MB = 5.2
	LmH	B		52.0	D = 87.17 Az = 38.8 (NEIS)
	LmV	B		52.0	h = 40 km PV A 1.4s 20.9nm M = 5.1 PPV A 2.0 34.2nm 5.5 LmH B 16 0.5/um LmV B 16 0.35/um
20.	eP	A	04	52 23	<u>South of Honshu, Japan</u>
	LmH	B	04	35.0	33.42 N 139.41 E H = 04 39 52.8 h = 31 km MB = 4.8 D = 84.47 Az = 329.6 (NEIS)

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Day	Phase	h m s	Remarks	
20.	LmH LmV	B B	07 11.0 18.0	<u>East China Sea</u> 27.10 N 127.0 E H = 06 23 02 h = 52 km MB = 4.4 (ISC) D = 83.8 LmH B 18s 1.8/um LmV B 15 0.9/um
20.	LmH	B	15 41.5	<u>Tadzhikistan-Sinkiang Border Region</u> 39.32 N 73.64 E H = 15 14 36.6 h = 43 km MB = 4.3 (ISC) D = 44.2 LmH B 18s 0.3/um M = 4.3
20.	LmH LmV	B B	19 38.0 38.2	<u>Western Caroline Islands</u> 11.26 N 140.81 E H = 18 31 20.4 h = 39 km MB = 5.2 (ISC) D = 104.2 LmH B 17s 0.6/um M = 5.2 LmV B 17 0.7/um 5.3
20.	+iP ePP ePS LmH LmV	AB A B B B	20 56 46.5 59 43.5 21 07 28 28.5 28.5	<u>Rat Islands, Aleutian Is.</u> 52.24 N 174.97 E H = 20 45 01.4 h = 58 km MB = 5.6 D = 76.52 Az = 349.2 (NEIS) PV A 1.2s 69.2nm M = 5.5 PPV A 1.7 48.5nm 5.5 LmH B 23 1.2/um LmV B 23 1.2/um
20.	eP e	A A	23 56 00 56 21.5	<u>Greece</u> 38.24 N 20.78 E H = 23 52 40.1 h = 50 km MB = 4.5 D = 14.01 Az = 335.2 (NEIS)
21.	LmH LmV	B B	03 10.5 17.7	LmH B 17s 0.8/um LmV B 15 0.5/um
21.	eP LmH	A C	13 06 11.5 12.9	<u>Ionian Sea</u> 37.24 N 19.61 E H = 13 02 46.2 h = normal MB = 4.1

196

August 1974

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Day	Phase	h m s	Remarks	
cont. 21.	LmV	C	13 12.9	D = 14.57 Az = 339.4 (NEIS) LmH C 11s 0.6/um M = 4.0 LmV C 12 0.4/um 4.0
21.	eP	A	15 10 25	<u>Eastern Mediterranean Sea</u> 33.8 N 25.41 E H = 15 05 52 h = 0 km D = 19.60 Az = 333 (ISC)
21.	eP LmH LmV	A C C	18 53 25 19 13.7 13.7	<u>Southern Sinkiang Prov., China</u> 39.23 N 74.03 E H = 18 45 16.7 h = normal MB = 5.0 D = 44.38 Az = 306.2 (NEIS) PV A 1.1s 18.2nm M = 4.8 LmH C 10 0.45/um 4.7 LmV C 10 0.45/um 4.8
21.	eP e LmH LmV	A A C C	21 26 33 26 58 22 12.0 13.0	<u>Molucca Passage</u> 0.42 N 125.15 E H = 21 12 29.9 h = 46 km MB=5.0 MS=4.6 D = 104.39 Az = 322.9 (NEIS) PV A traces
21.	LmH LmV	C C	24 53.0 53.0	<u>Off Coast of Northern Chile</u> 19.86 S 71.17 W H = 23 59 00.7 h = 44 km MB=5.1 (ISC) D = 100.7 LmH C 22s 0.25/um M = 4.7 LmV C 20 0.3/um 4.8
22.	ePKIKP ePKHKP ePKP2	A A A	12 07 54 07 59.5 08 06	<u>Fiji Islands Region</u> 20.72 S 178.47 W H = 11 49 14.8 h = 583 km MB = 5.1 D = 149.09 Az = 347.5 (NEIS) PKHKPV A 1.3s 39.3nm
23.	eP LmH	A B	04 11 29.5 53.5	<u>Taiwan</u> 23.83 N 121.56 E H = 03 58 49.1 h = normal MB = 5.0

197

Day	Phase	h	m	s	Remarks
cont. 23.	LmV	B	04	53.5	D = 83.63 Az = 323.0 (NEIS) PV A 1.6s 19.3nm M = 5.0 LmH B 15 0.6/um 5.1 LmV B 15 1.0/um 5.4
23.	+ePKIKP	A	05	08 58	<u>Banda Sea</u> 7.49 S 127.51 E H = 04 50 34.6 h = 136 km MB = 5.8 D = 112.06 Az = 321.8 (NEIS) PKIKPV A 1.2s 32.5nm PP2V A 2.0 94.0nm M = 5.8 LmH B 19 1.5/um LmV B 19 1.0/um
	ePP1	A	09	44	
	ePP2	A	09	48	
	ePS	C	18	55	
	ePKKP	A	19	50	
	ePPS	B	20	10	
	e	B	21	16	
	eSS	C	25	25	
	LmH	B	54.5		
	LmV	B	57.5		
23.	ePKP	A	06	06 45	<u>Tonga Islands</u> 16.99 S 173.48 W H = 05 47 06.9 h = normal MB = 4.4 D = 146.18 Az = 354.2 (NEIS) PKPV A 1.3s 15.3nm
23.	LmH	C	16	55.0	<u>Tadzhikistan-Sinkiang Border Region</u> 39.34 N 73.68 E H = 16 26 32.8 h = 50 km MB = 4.7 (ISC) D = 44.2
	LmV	C	55.0		
23.	LmH	C	17	52.0	<u>Northern Easter I. Cordillera</u> 4.58 S 105.54 W H = 16 52 03.4 h = 33 km MB = 4.8 (ISC) D = 110.5
	LmV	C	55.0		
23.	LmH	C	24	30.0	<u>North Atlantic Ocean</u> 19.22 N 68.04 W H = 23 55 35 h = 15 km MB = 4.9 (ISC) D = 68.8
	LmV	C	30.3		
24.	+eP	AB	03	00 01	<u>Colombia</u> 4.28 N 76.86 W H = 02 47 30.1 h = 84 km MB = 5.9 D = 85.75 Az = 39.7 (NEIS) PV A 1.4s 97.7nm M = 5.6

Day	Phase	h	m	s	Remarks
24.	ePKHKP	A	03	41 33.5	<u>Tonga Islands</u> 21.71 S 174.17 W H = 03 21 43.8 h = normal MB=4.8 MS=4.3 D = 150.76 Az = 352.4 (NEIS) PKHKPV A 1.9s 45.5nm
24.	eP	A	10	23 55	<u>Southern Greece</u> 37.75 N 21.17 E H = 10 20 20.5 h = normal MB = 4.2 D = 14.58 Az = 335.2 (NEIS) PV A 1.3s 10.9nm M = 4.2
24.	+eiP	AB	10	53 03	<u>Fox Islands, Aleutian Is.</u> 52.41 N 168.27 W H = 10 41 11.2 h = 41 km MB=5.7 MS=5.6 D = 77.32 Az = 0.1 (NEIS) h = 41 km PV A 1.4s 149.0nm M = 5.8 PV B 5 1.3/um 6.2 LmH B 19 1.7/um 5.4 LmV B 19 1.9/um 5.5
	epP	A	53	15	
	eS	B	11	03 00	
	eSS	C	08	00	
	LmH	B	32.3		
	LmV	B	32.3		
24.	eP	A	11	29 53.5	<u>Tadzhik-Siniang Border Region</u> 39.34 N 73.67 E H = 11 21 46.8 h = normal MB = 4.9 D = 44.09 Az = 306.1 (NEIS) PV A 1.2s 14.2nm M = 4.7
	ePP	A	31	42.5	
24.	eP	A	12	22 47	<u>Tadzhik-Sinkiang Border Region</u> 39.35 N 73.88 E H = 12 14 37.1 h = normal MB = 4.9 D = 44.21 Az = 306.1 (NEIS) traces
24.	eP	A	18	29 38	<u>Burma</u> 25.81 N 96.24 E H = 18 18 45.8 h = normal MB = 4.7 (NEIS) D = 67.19

Day	Phase	h	m	s	Remarks
24.	ePKHKP ePKP2	A	18	52 09.5	<u>Tonga Islands</u> 21.52 S 174.51 W H = 18 32 19.3 h = normal MB = 4.8 D = 150.54 Az = 352.1 (NEIS) PKHKPV A 1.7s 36.3nm
24.	ePKHKP ePKP2	A	18	52 09.5	<u>Tonga Islands</u> 21.52 S 174.51 W H = 18 32 19.3 h = normal MB = 4.8 D = 150.54 Az = 352.1 (NEIS) PKHKPV A 1.7s 36.3nm
24.	eP LmH LmV	A B B	22	12 09 18.7 18.7	<u>Ionian Sea</u> 37.89 N 19.64 E H = 22 08 38.6 h = 11 km MB = 4.1 D = 13.97 Az = 338.4 (NEIS) LmH B 10.5s 0.45/um M = 3.8 LmV B 11 0.65/um
24.	+iP LmH LmV	AB C C	22	30 48 23 07.0 15.4	<u>Fox Islands, Aleutian Is.</u> 52.30 N 168.31 W H = 22 18 55.4 h = 37 km MB=5.3 MS=4.5 D = 77.43 Az = 0.0 (NEIS) PV A 1.3s 63.3nm M = 5.5
25.	-iP ePP ePP e(S) eSS LmH LmV	AB B A BC C B B	01	31 22.3 34 44 34 45 41 58 48 15 02 07.4 18.6	<u>South of Honshu, Japan</u> 32.05 N 142.29 E H = 01 18 39.9 h = normal MB=5.9 MS=5.6 D = 86.86 Az = 331.1 (NEIS) PV A 1.5s 181.0nm M = 6.1 PV B 6 1.6/um 6.5 PPV A 2.4 172.7nm 6.1 PPV B 7 1.2/um 6.4 LmH B 18 5.6/um 6.0 LmV B 17 5.3/um 6.0
25.	eP	A	02	24 36	<u>South of Honshu, Japan</u> 32.07 N 142.41 E H = 02 11 51.7 h = normal MB = 4.9 D = 86.89 Az = 331.1 (NEIS) traces

Day	Phase	h	m	s	Remarks
25.	ePKIKP	A	03	47 23	<u>Fiji Islands Region</u> 16.84 S. 175.78 E H = 03 27 46.3 h = normal MB=5.1 MS=5.3 D = 143.96 Az = 342.8 (NEIS) PKIKPV A 1.3s 8.7nm
25.	eP epP LmV	A A B	04	32 00 32 11.5 05 01.0	<u>South of Honshu, Japan</u> 31.96 N 142.41 E H = 04 20 17.0 h = 40 km MB = 5.3 (NEIS) D = 86.98 h = 45 km PV A 1.2s 22.4nm M = 5.3 LmV B 17 0.7/um 5.2
25.	eP	A	06	00 02	<u>Ionian Sea</u> 37.72 N 20.08 E H = 05 56 36.9 h = 9 km MB = 3.9 D = 14.26 Az = 337.7 (NEIS) traces
25.	eP e	A A	10	07 50 08 02	<u>South of Honshu, Japan</u> 31.91 N 142.47 E H = 09 55 11.7 h = 81 km MB = 5.2 D = 87.05 Az = 331.2 (NEIS) PV A 1.5s 20.1nm M = 5.0
25.	eP LmH LmV	A C C	10	26 07.5 55.0 55.0	<u>South of Honshu, Japan</u> 32.04 N 142.28 E H = 10 13 18.1 h = normal MB = 5.0 D = 86.86 Az = 331.1 (NEIS)
25.	ePKHKP	A	12	10 52	<u>Fiji Islands Region</u> 19.75 S 177.99 W H = 11 51 51.2 h = 404 km MB = 4.8 D = 148.24 Az = 348.4 (NEIS)
25.	ePP	A	13	35 08.5	<u>Greece</u> 38.34 N 19.97 E H = 13 31 23.4 h = normal MB = 4.0 D = 13.66 Az = 336.9 (NEIS)
25.	ePKIKP ePKHKP	AB AB	14	53 33 53 38	<u>South of Fiji Islands</u> 23.48 S 179.91 W H = 14 34 46.7 h = 542 km MB = 5.3

Day	Phase	h m s	Remarks
cont. 25.	ePKP2 A	14 53 51	D = 151.44 Az = 344.6 (NEIS)
	epPKIKP A	55 44	h = 575 km
	epPKHKP AB	55 47.5	PKIKPV A 1.8s 54.0nm
	epPKP2 A	56 01	PKHKPV A 1.6 110.0nm
	e C	15 03 23	PKP2V A 1.3 30.6nm
			pPKIKPV A 1.8 121.6nm
			pPKHKPV A 1.5 183.4nm
			pPKP2V A 1.5 55.3nm
25.	eP A	19 46 28	<u>Ionian Sea</u> 38.43 N 19.78 E
	e A	46 35	H = 19 43 11.5 h = 33 km MB = 4.1 (NEIS)
	LmH C	53.0	D = 13.52
	LmV C	53.0	
26.	+iP A	06 40 18.4	<u>Mexico-Guatemala Border Region</u>
	LmH C	07 20.0	15.95 N 91.04 W
	LmV C	20.0	H = 06 27 40.7 h = normal MB=5.1 MS=4.8
			D = 85.62 Az = 38.5 (NEIS)
			PV A 1.0s 27.6nm M = 5.4
26.	eP A	18 13 57	<u>Mediterranean Sea</u> 35.25 N 22.27 E
	eX A	14 22	H = 18 09 55.9 h = 33 km MB = 3.8
			D = 17.22 Az = 336.6 (NEIS)
			XV A 1.5s 12.6nm
27.	eP A	05 51 42.5	<u>Southern Sinkiang Prov., China</u>
	e A	52 17	39.28 N 73.96 E
			H = 05 43 33.7 h = normal MB = 5.0
			D = 44.31 Az = 306.2 (NEIS)
27.	ePKIKP A	06 42 48	<u>Near Coast of Central Chile</u>
	LmH B	07 32.0	38.34 S 73.39 W
	LmV B	32.0	H = 06 24 07.1 h = 23 km MB=5.4 MS=4.6
			D = 115.64 Az = 44.7 (NEIS)
			LmH B 19s 0.7/um M = 5.3
			LmV B 20 0.6/um 5.2

Day	Phase	h m s	Remarks
27.	eP AB	13 04 09	<u>Tadzhik-Sinkiang Border Region</u>
	Pm A	04 14	39.67 N 73.83 E
	ePP B	05 59	H = 12 56 03.2 h = normal MB=5.8 MS=5.9
	eS B	10 45	D = 44.00 Az = 305.8 (NEIS)
	eSS B	13 46	PmV A 1.3s 216.0nm M = 5.8
	LmH B	23.2	PPV B 8.5 1.3/um 5.8
	LmV B	24.4	LmH B 18 23.9/um 6.2
			LmV B 14 27.1/um 6.4
27.	eP A	14 32 52.5	<u>Southern Sinkiang Prov., China</u>
			39.62 N 74.03 E
			H = 14 24 45.4 h = normal MB = 4.2
			D = 44.15 Az = 305.9 (NEIS)
27.	ePP A	15 38 53	<u>Catamarca Province, Argentina</u>
			27.93 S 66.67 W
			H = 15 20 49.8 h = 147 km MB = 5.5 (NEIS)
			D = 104.18
27.	eP AB	17 42 05.5	<u>Tadzhik-Sinkiang Border Region</u>
	ePP A	43 53	39.37 N 73.86 E
	e A	44 07	H = 17 33 58.1 h = normal MB=5.3 MS=5.2
	eSS C	52 00	D = 44.19 Az = 306.1 (NEIS)
	LmH B	18 01.0	PV A 1.7s 48.5nm M = 5.0
	LmV B	02.4	LmH B 19 2.8/um 5.2
			LmV B 15 1.9/um 5.2
28.	eP A	01 02 23.5	<u>Near East Coast of Honshu, Japan</u>
	epP A	02 35	36.48 N 141.10 E
			H = 00 50 04.3 h = 51 km MB = 5.0
			D = 82.52 Az = 330.3 (NEIS)
			h = 44 km
			PV A 1.0s 13.8nm M = 4.9
28.	ePKP A	10 37 59	<u>Fiji Islands Region</u> 17.89 S. 178.51 W
			H = 10 19 27.4 h = 613 km MB = 4.8
			D = 146.33 Az = 348.4 (NEIS)
			PKPV A 1.6s 24.8nm

Day	Phase	h m s	Remarks
28.	eP	A 18 54 32	<u>Gulf of Alaska</u> 59.51 N 144.45 W
	eS	B 19 03 35	H = 18 43 25.7 h = 4 km MB=4.9 MS=4.6
	LmH	B 30.5	D = 68.50 Az = 16.1 (NEIS)
	LmV	B 31.4	PV A 1.3s 35.0nm M = 5.4 LmH B 15 0.7/um 5.0 LmV B 14 1.0/um 5.3
29.	-iP	A 01 10 17.4	<u>Afghanistan-USSR Border Region</u> 36.52 N 71.33 E H = 01 02 28.5 h = 228 km MB = 5.0 D = 44.31 Az = 308.1 (NEIS) PV A 1.2s 36.6nm M = 4.7
29.	ePKP2	A 03 10 34	<u>Kermadec Islands Region</u>
	e	A 10 50	28.92 S 177.47 W
	e	A 10 58	H = 02 50 14.9 h = 58 km MB = 5.3
	e	A 11 10	D = 157.24 Az = 344.9 (NEIS)
29.	ePKHKP	A 04 52 18	<u>Tonga Islands</u> 19.24 S 173.35 W
	ePKP2	A 52 21.5	H = 04 32 33.3 h = normal MB = 5.2 MS=4.8 D = 148.42 Az = 354.0 (NEIS) PKHKPV A 1.9s 60.6nm
29.	eP	A 06 52 04.5	<u>Rat Islands, Aleutian Is.</u>
	e	A 52 22	50.24 N 177.65 E H = 06 40 03.3 h = normal MB = 4.9 D = 78.79 Az = 351.0 (NEIS)
29.	+iP	AB 10 06 01.7	<u>Novaja Zemlya</u> 73.37 N 55.09 E
	ePP	B 07 15	H = 09 59 55.6 h = 0 km MB=6.4 MS=5.0
	eS	AB 11 33	D = 29.36 Az = 243.3 (NEIS)
	LmH	B 21.7	Underground explosion MB = 6.5 (UPP)
	LmV	B 21.8	PV A 1.4s 655.0nm M = 6.3
	eP'P'	A 39 17	PH A 1.4 515.0nm 6.3 PV B 4 1.7/um 6.3 PPV B 3.5 0.9/um 6.2 LmH B 7 12.7/um 6.0 LmV B 7 9.6/um 6.0

Day	Phase	h m s	Remarks
29.	eP	A 15 06 10	<u>Ural Mountains Region</u> 67.23 N 62.12 E
	e	A 06 35.5	H = 14 59 59.6 h = 0 km MB = 5.2 D = 29.78 Az = 261.6 (NEIS) Underground explosion MB = 5.4 (UPP)
30.	epP	A 07 58 17	<u>Near Coast of Nicaragua</u> 12.76 N 87.38 W H = 07 45 20.9 h = 62 km MB = 4.9 D = 85.87 Az = 39.1 (NEIS)
30.	+eP	A 15 12 18	<u>Southern Nevada</u> 37.15 N 116.08 W
	ePP	A 16 22	H = 15 00 00.2 h = 0 km MB = 5.8 D = 81.22 Az = 30.6 (NEIS) Nuclear explosion (AEC) PV A 1.4s 65.0nm M = 5.5
30.	ePn	A 17 45 08.5	<u>Yugoslavia</u> 44.17 N 20.37 E
	e(Sg)	A 47 30	H = 17 42 59.4 h = normal
	e	A 47 51	D = 8.78 Az = 320.6 (NEIS)
30.	eP1	AB 23 42 13	<u>South of Honshu, Japan</u>
	eP2	A 42 16	30.56 N 141.94 E
	ePP	A 45 40	H = 23 29 23.6 h = 24 km MB=5.3 MS=5.7
	eX	A 46 03	D = 88.01 Az = 330.9 (NEIS)
	eSKS	B 52 40	P1V A 1.4s 13.9nm M = 5.1
	eS	B 52 56	P1V B 6 0.7/um 6.2
	LmH	B 24 19.4	P2V A 2.5 131.0nm 5.8
	LmV	B 25.1	XV A 2.8 191.5nm LmH B 19 3.9/um 5.9 LmV B 18 2.9/um 5.8
31.	+ePKP	A 01 33 44.5	<u>Loyalty Islands Region</u> 22.66 S 170.93 E H = 01 14 00.5 h = 17 km MB = 4.6 D = 147.74 Az = 335.1 (NEIS) PKPV A 1.0s 23.6nm



Day	Phase	h m s	Remarks
31.	LmH	C 17 42.4	<u>Tadzhikistan-Sinkiang Border Region</u> 39.54 N 73.87 E H = 17 13 58.5 h = 51 km MB = 4.2 (ISC) D = 44.3
	LmV	C 42.4	
31.	LmH	C 19 05.5	<u>Northern Sumatra</u> 0.62 N 97.95 E H = 18 05 08 h = 63 km MB = 4.5 (ISC) D = 87.3
	LmV	C 05.5	
31.	e	A 23 53 25	

Day	Phase	h m s	Remarks
1.	LmH	C 10 40.0	<u>West Chile Rise</u> 42.85 S 82.5 W H = 09 33 42.4 h = 33 km MB = 5.0 (ISC) D = 123.8 LmH C 24s 0.4 $\mu$ m M = 5.0
1.	eP	A 11 05 51	<u>Jan Mayen Island Region</u> 71.85 N 2.27 W H = 11 00 58.1 h = normal MB = 4.1 D = 22.18 Az = 156.1 (NEIS) PV A 1.8s 30.4nm M = 4.4
1.	eP	A 13 20 05	<u>Jan Mayen Island Region</u> 71.86 N 2.25 W H = 13 15 11.7 h = normal MB = 3.9 D = 22.18 Az = 156.2 (NEIS) PV A 1.6s 24.7nm M = 4.4
1.	eSn	A 17 26 15	<u>France</u> 45.8 N 1.5 W H = 17 21 57 (BCIS) D = 10.04
	eSg	A 27 20	
2.	-eP	A 04 46 21	<u>Southern Sumatra</u> 2.77 S 101.21 E H = 04 33 16.6 h = 52 km MB = 5.7 D = 91.87 Az = 320.4 (NEIS) PV A 1.4s 83.8nm M = 6.0 LmH C 21 0.3 $\mu$ m
	LmH	C 05 33.5	
2.	eP	A 08 54 59	<u>Southern Sumatra</u> 2.77 S 101.24 E H = 08 41 54.9 h = 56 km MB = 5.4 D = 91.89 Az = 320.4 (NEIS) PV A 1.6s 44.0nm M = 5.6
	ePP	A 58 38	
2.	e	A 23 29 54	<u>Greece</u> 38.5 N 23.7 E H = 23 26 08 (BCIS) D = 14.92 traces

## Moxa

Day	Phase	h m s	Remarks
3.	eSg	A 00 20 21.5	<u>Switzerland</u> 47°27'N 7°38'E H = 00 18 10 (BCIS) D = 4.12
3.	eP	A 01 52 30	<u>South of Honshu, Japan</u>
	e	A 53 02	32.16 N 142.30 E
	e	A 57 25	H = 01 39 45.2 h = 20 km MB=5.3 MS=4.9
	LmH	B 02 37.2	D = 86.76 Az = 331.1 (NEIS)
	LmV	B 37.3	PV A 2.0s 34.2nm M = 5.2 LmH B 16 1.7/um 5.5 LmV B 14.5 1.2/um 5.5
3.	eP	A 01 57 41	<u>Kurile Islands</u> 49.67 N 156.01 E H = 01 45 56.9 h = 22 km MB=5.2 MS=4.9 D = 75.53 Az = 337.5 (NEIS) PV A 1.1s 16.1nm M = 5.0
3.	eSg	A 05 55 16	<u>Switzerland</u> 47.44 N 7.62 E H = 05 53 03.2 h = 0 km D = 4.15 Az = 38 (ISC)
3.	eiP	AB 06 07 52	<u>Philippine Islands Region</u>
	+eiX	A 08 04.5	18.34 N 119.17 E
	ePP	AB 11 15	H = 05 55 06.4 h = 11 km MB=5.9 MS=5.4
	eS	C 18 20	D = 86.63 Az = 322.6 (NEIS)
	ePS	B 19 42	PV A 1.4s 176.7nm M = 6.1
	LmH	B 46.6	XV A 1.4 93.0nm
	LmV	B 53.3	LmH B 15.5 3.7/um 5.9 LmV B 14.4 3.5/um 5.9
3.	eP	A 06 12 23	<u>Philippine Islands Region</u> 18.21 N 119.13 E H = 05 59 41.0 h = normal MB = 5.6 D = 86.71 Az = 322.5 (NEIS) PV A 1.5s 35.2nm M = 5.4
3.	+eP	A 19 49 27	<u>Tadzhik-Sinkiang Border Region</u>
	ePP1	A 51 04	39.43 N 73.70 E

## September 1974

## Moxa

Day	Phase	h m s	Remarks
cont. 3.	ePP2	A 19 51 16	H = 19 41 19.9 h = normal MB = 5.4
	LmH	B 20 08.7	D = 44.06 Az = 306.0 (NEIS)
	LmV	B 09.7	PV A 1.8s 81.1nm M = 5.2 PP1V A 1.9 102.3nm 5.3 PP2V A 2.0 119.7nm 5.4 LmH B 15.5 1.5/um 5.0 LmV B 12 2.0/um 5.3
4.	eP	A 06 18 33.5	<u>South of Java</u> 9.03 S 107.57 E
	ePP	A 22 39	H = 06 04 50.7 h = 69 km MB = 5.4 D = 100.69 Az = 319.9 (NEIS) PV A 1.6s 16.5nm M = 5.4 PPV A 1.8 27.0nm 5.6
4.	eP1	AB 06 33 22	<u>Mediterranean Sea</u> 33.13 N 13.57 E
	eP2	A 33 26.5	H = 06 29 16.4 h = 17 km MB=5.1 MS=5.6
	eS	B 36 40	D = 17.56 Az = 355.9 (NEIS)
	LmH	B 40.3	P1V A 1.8s 135.0nm M = 4.8
	LmV	B 42.8	P2V A 1.8 372.0nm 5.2 SH B 15.5 6.7/um 6.2 LmH B 18.5 22.4/um 5.5 LmV B 11 10.7/um 5.5
4.	ePKHKP	A 08 18 12	<u>Tonga Islands Region</u> 22.58 S 175.23 W H = 07 58 22.1 h = 58 km MB = 5.1 D = 151.48 Az = 350.9 (NEIS)
4.	eP	A 09 32 05	<u>Near East Coast of Honshu, Japan</u>
	e(pP)	A 32 26	40.20 N 141.74 E
	e(sP)	A 32 41.5	H = 09 20 02.5 h = 55 km MB = 5.3
	LmH	B 10 05.5	D = 79.54 Az = 330.3 (NEIS)
	LmV	B 12.2	PV A 1.2s 16.3nm M = 4.8 LmH B 16.5 0.9/um LmV B 16 0.4/um
5.	eP	A 04 05 40	<u>Central Russia</u> 50.97 N 89.39 E H = 03 57 14.2 h = normal MB = 4.4 D = 46.94 Az = 301.6 (NEIS)

Day	Phase	h m s	Remarks
5.	eP	A 06 35 36	<u>South of Honshu, Japan</u> 32.23 N 142.34 E H = 06 22 53.0 h = normal MB = 5.1 D = 86.72 Az = 331.1 (NEIS) PV A 1.1s 12.10nm M = 5.1
5.	eP	A 07 59 40	<u>Northern Colombia</u> 6.80 N 73.04 W H = 07 47 40.7 h = 160 km MB = 5.4 D = 81.40 Az = 39.9 (NEIS) PV A 1.9s 30.3nm M = 4.7
5.	eP	A 10 08 09.5	<u>Mexico-Guatemala Border Region</u> 16.70 N 91.69 W H = 09 55 32.9 h = normal MB = 4.6 D = 85.43 Az = 38.4 (NEIS)
5.	eP eX LmH LmV	A 11 38 42.5 A 38 50 B 44.9 B 47.3	<u>Crete</u> 35.69 N 25.05 E H = 11 34 36.1 h = 53 km MB = 4.2 D = 17.83 Az = 331.1 (NEIS) XV A 1.8s 47.3nm LmH B 18 1.2/um LmV B 14 0.6/um
5.	eP	A 14 40 56.5	<u>Afghanistan-USSR Border Region</u> 37.28 N 71.71 E H = 14 33 00.2 h = 137 km MB = 4.5 D = 44.09 Az = 307.5 (NEIS)
5.	eP LmH LmV	A 18 34 10 B 19 16.5 B 16.5	<u>Ryukyu Islands</u> 29.35 N 130.51 E H = 18 21 42.2 h = normal MB = 4.9 D = 83.84 Az = 325.9 (NEIS) PV A 1.3s 13.1nm M = 4.9 LmH B 14 0.7/um 5.2 LmV B 15 0.8/um 5.3
5.	LmH LmV	B 22 03.4 B 11.3	<u>New Guinea</u> 4.26 S 143.55 E H = 21 17 57.5 h = 61 km MB = 5.8 (ISC) D = 118.8 LmH B 19s 1.2/um LmV B 19 0.9/um

Day	Phase	h m s	Remarks
6.	ePKIKP	A 03 16 22	<u>Solomon Islands</u> 4.08 S 154.01 E H = 02 58 10.9 h = 420 km MB = 5.2 D = 123.89 Az = 332.1 (NEIS)
6.	eP LmH LmV	A 15 32 05.5 B 51.3 B 52.5	<u>Tadzhik-Sinkiang Border Region</u> 39.32 N 73.79 E H = 15 23 58.3 h = normal MB = 4.9 D = 44.18 Az = 306.1 (NEIS) LmH B 16s 1.2/um M = 4.9 LmV B 16 0.6/um 4.7
6.	ePKP	A 20 55 25.5	<u>Tonga Islands</u> 15.62 S 173.33 W H = 20 36 02.1 h = 124 km MB = 4.7 D = 144.83 Az = 354.5 (NEIS) PKPV A 1.0s 15.7nm
6.	ePKIKP epPKIKP LmH LmV	A 23 45 31 A 45 45 C 24 33.2 C 38.5	<u>Solomon Islands</u> 7.10 S 155.86 E H = 23 26 32.8 h = 63 km MB = 5.4 (NEIS) D = 127.40 h = 48 km PKIKPV A 2.0s 42.7nm pPKIKPV A 1.5 47.7nm LmH C 25 0.45/um LmV C 26 0.5/um
7.	eP	A 04 21 22	<u>Hokkaido, Japan Region</u> 43.79 N 140.25 E H = 04 09 59.7 h = 240 km MB = 4.2 D = 75.88 Az = 329.1 (NEIS)
7.	eP	A 07 35 17	<u>Venezuela</u> 4.99 N 78.30 W H = 07 22 35.7 h = 22 km MB = 4.8 (NEIS) D = 86.13
7.	eP LmH LmV	A 15 54 40 B 16 13.5 B 14.0	<u>Tadzhik - Sinkiang Border Region</u> 39.29 N 73.90 E H = 15 46 30.9 h = normal MB = 4.9 D = 44.26 Az = 306.1 (NEIS) LmH C 19s 2.8/um M = 5.2 LmV C 19 1.2/um 4.8

Day	Phase	h m s	Remarks	
7.	eP epP	A A	19 51 41 51 58.5	<u>Leeward Islands</u> 15.10 N 60.63 W H = 19 40 52.2 h = 58 km MB = 5.7 D = 67.22 Az = 41.1 (NEIS) h = 67 km
7.	eP eX iPP eiSKS eS ePKKP e eiSS LmH LmV	AC A AB C C A A C B B	20 57 06 21 00 27 01 16 07 43 08 40 13 28 13 36.5 15 44 46.8 49.1	<u>South of Java</u> 9.82 S 108.36 E H = 20 43 11.5 h = normal MB=6.1 MS=6.5 D = 101.79 Az = 319.8 (NEIS) PV A 1.7s 60.6nm M = 5.9 XV A 2.2 109.1nm PPV A 2.0 316.0nm 6.5 PPV B 9.5 4.0/um 6.9 LmH B 22.5 21.9/um 7.6 LmV B 19 8.5/um 6.3
8.	ePKP	A	05 32 42.5	<u>New Hebrides Islands</u> 14.91 S 167.97 E H = 05 13 11.6 h = 17 km MB=5.5 MS=5.3 D = 139.55 Az = 336.8 (NEIS)
8.	-eiPKIKP -eipPKIKP	A A	05 35 34 37 22.5	<u>New Ireland Region</u> 3.69 S 153.93 E H = 05 17 27.5 h = 449 km MB = 5.7 D = 123.51 Az = 332.2 (NEIS) h = 470 km PKIKPV A 1.3s 87.3nm
8.	ePP e	A A	19 13 30 13 54	<u>Aegean Sea</u> 39.86 N 24.45 E H = 19 10 00.2 h = normal MB = 4.3 D = 14.05 Az = 324.4 (NEIS)
8.	LmH LmV	C C	20 19.3 19.3	LmH C 10s 1.0/um LmV C 10. 0.7/um
9.	ePKP	A	00 27 42.5	<u>Fiji Region</u> 15.6 S 176.11 W H = 00 08 10.2 h = 33 km MB = 4.5 D = 144.50 Az = 352 (ISC)

Day	Phase	h m s	Remarks	
9.	e(PKP)	A	04 05 20	<u>South of Fiji</u> 23.2 S 179.7 E H = 03 45 50 h = 33 km (ISC) D = 151.1
9.	ePn ePg eSn eSg	A A A A	12 51 22.5 51 40 52 12 52 36	<u>Northern Italy</u> 46.22 N 12.57 E H = 12 50 15.3 h = normal D = 4.47 Az = 352.2 (NEIS)
9.	eP	A	18 05 26.5	<u>North Atlantic Ridge</u> 34.6 N 36.63 W H = 17 58 10 h = 32 km MB = 5.0 D = 38.24 Az = 50 (ISC) PV A 1.8s 20.3nm M = 4.6
10.	eP	A	00 28 58	<u>Ionian Sea</u> 37.83 N 19.82 E H = 00 25 33.1 h = normal MB = 3.9 D = 14.09 Az = 338.1 (NEIS)
10.	ePKIKP epPKIKP ePKP2 e ePP LmH LmV	A A A A A C C	21 26 04 26 11 26 39 26 53 30 16 22 46.0 46.0	<u>Kermadec Islands</u> 30.43 S 177.81 W H = 21 06 07.9 h = 27 km MB=5.5 MS=5.1 D = 158.61 Az = 343.4 (NEIS) h = 29 km PKIKPV A 2.2s 65.4nm PKP2V A 1.6 76.9nm LmH C 20 0.35/um M = 5.1 LmV C 20 0.35/um 5.2
11.	ePKIKP ePKP2 LmH LmV	A A C C	01 36 53 37 30.5 02(40) 43.0	<u>Kermadec Islands</u> 30.36 S 177.97 W H = 01 17 02.1 h = 43 km MB=5.3 MS=5.2 D = 158.50 Az = 343.2 (NEIS) PKIKPV A 2.0s 34.2nm PKP2V A 1.5 45.2nm LmV C 26 0.6/um M = 5.3
11.	eP LmH LmV	A C C	05 15 50.5 20.0 21.3	<u>Albania</u> 40.09 N 19.70 E H = 05 12 57.0 h = 51 km MB = 4.4 D = 11.98 Az = 334.5 (NEIS)

Day	Phase	h m s	Remarks
11.	ePKP A	16 37 22	<u>Tonga Islands</u> 15.02 S 172.97 W H = 16 17 50.0 h = normal MB=5.2 MS=4.7 D = 144.28 Az = 355.0 (NEIS)
11.	ePP A LmV C LmH C	19 35 27 20 15.0 18.0	<u>Flores Islands Region</u> 8.37 S 121.94 E H = 19 16 17.2 h = 33 km MB = 5.8 (NEIS) D = 109.28 PPV A 1.3s 18.2nm M = 5.6 LmH C 32 0.6/um 4.9 LmV C 40 0.7/um 4.9
12.	eP A	05 31 48.5	<u>Off Coast of Northern California</u> 41.86 N 126.60 W H = 05 19 35.3 h = normal MB=5.0 MS=4.9 D = 80.91 Az = 25.4 (NEIS) PV A 2.2s 65.5nm M = 5.2
12.	eP A LmH B LmV B	06 11 11 30.4 31.4	<u>Southern Sinkiang Prov., China</u> 39.20 N 74.21 E H = 06 03 00.2 h = normal MB = 5.2 D = 44.51 Az = 306.3 (NEIS) PV A 1.4s 14.0nm M = 4.6 LmH B 17 0.9/um 4.8 LmV B 16 0.9/um 4.9
12.	eP A	06 35 59	<u>Tadzhik-Sinkiang Border Region</u> 39.37 N 73.84 E H = 06 27 51.1 h = normal MB = 4.8 D = 44.18 Az = 306.1 (NEIS)
12.	ePKHKP A ePKP2 A	20 06 35 06 42	<u>Fiji Islands Region</u> 21.01 S 179.11 W H = 19 47 53.2 h = 606 km MB = 4.8 D = 149.24 Az = 346.6 (NEIS) PKHKPV A 1.2s 8.1nm
12.	eP A LmH C LmV B	20 27 14 21 04.7 09.4	<u>El Salvador</u> 13.56 N 89.89 W H = 20 14 37.3 h = 85 km MB = 5.0 D = 86.78 Az = 38.7 (NEIS) LmH C 20s 0.6/um LmV B 16 0.5/um

Day	Phase	h m s	Remarks
12.	e(Pn) A e(Sg) A	20 52 26.5 53 06	<u>Czechoslovakia</u> 50.4 N 13.7 E H = 20 51 53 h = 0 km D = 1.37 Az = 281 (ISC)
12.	eP A	23 11 56.5	<u>Afghanistan</u> 35.0 N 68.6 E H = 23 03 53 h = 33 km MB = 4.7 D = 43.52 Az = 309 (ISC) PV A 1.0s 11.8nm M = 4.8
12.	LmH C LmV C	23 58.0 58.0	<u>South Sandwich Islands Region</u> 58.75 S 25.11 W H = 22 56 20.8 h = 20 km MB = 5.1 (ISC) D = 113.0 LmH C 20s 0.25/um M = 4.9 LmV C 20 0.55/um 5.2
13.	+iP A ePn A	03 10 46.5 12 18.5	<u>Eastern Kazakh SSR</u> 49.82 N 78.09 E H = 03 02 57.8 h = 0 km MB = 5.2 D = 41.23 Az = 297.7 (NEIS) Underground explosion, MB = 5.9 (UPP) PV A 0.8s 42.3nm M = 5.2
13.	eP A	04 59 59	<u>Turkey</u> 37.52 N 36.21 E H = 04 55 04.1 h = normal MB = 4.3 D = 21.88 Az = 314.7 (NEIS) PV A 1.1s 12.1nm M = 4.2
13.	+iP AB ePP C eS B LmH B LmV B	08 04 20.0 06 55 13 36 35.2 35.8	<u>Near East Coast of Kamchatka</u> 55.29 N 161.97 E H = 07 53 02.7 h = 55 km MB = 5.8 D = 71.58 Az = 340.6 (NEIS) PV A 1.3s 288.0nm M = 6.0 LmH B 21.5 3.3/um 5.6 LmV B 22 2.4/um 5.5
13.	eP A LmH B LmV B	18 28 08 32.6 33.5	<u>Greece</u> 40.52' N 23.43 E H = 18 24 59.2 h = 24 km MB = 4.5 D = 13.06 Az = 324.8 (NEIS) LmH B 10s 1.5/um M = 4.3 LmV B 9.5 0.9/um

Day	Phase	h m s	Remarks	
14.	eP sP	A A	02 50 46 51 44.5	<u>Kurile Islands</u> 49.35 N 153.45 E H = 02 39 22.5 h = 180 km MB = 4.8 D = 75.16 Az = 336.0 (NEIS) h = 168 km PV A 1.2s 16.3nm M = 4.6
14.	e eSg	A A	06 51 40 52 55	<u>Corsica</u> 43.34 N 8.17 E H = 06 48 46.4 h = 17 km MB = 4.1 D = 7.68 Az = 16.6 (NEIS)
14.	ePKHKF ePKP2	A A	08 56 33.5 56 38	<u>Fiji Islands Region</u> 19.74 S 178.26 W H = 08 37 53.3 h = 602 km MB = 4.4 D = 148.18 Az = 348.1 (NEIS)
15.	ePKP2	A	08 37 08	<u>South of Fiji</u> 37.63 S 178.13 E H = 08 16 20.3 h = 61 km MB = 5.1 (NEIS) D = 163.82
15.	ePKP	A	20 53 22.5	<u>New Hebrides Islands</u> 18.60 S 169.20 E H = 20 34 18.8 h = 244 km MB = 5.1 D = 143.39 Az = 336.0 (NEIS) PKPV A 1.3s 24.0nm
16.	eP	A	00 51 31.5	<u>Jujuy Province, Argentina</u> 23.94 S 65.55 W H = 00 38 15.3 h = 280 km MB = 5.6 D = 100.47 Az = 39.1 (NEIS) PV A 1.4s 18.6nm M = 5.4
16.	eP ePP LmH LmV	A A C C	16 53 59 55 43.5 17 14.1 14.1	<u>Tadzhik-Sinkiang Border Region</u> 39.47 N 73.52 E H = 16 45 57.1 h = 64 km MB = 5.0 D = 43.92 Az = 305.9 (NEIS) PV A 1.3s 21.8nm M = 4.8 PPV A 1.3 17.5nm 4.8 LmH C 18 1.0/um LmV C 16 1.2/um

Day	Phase	h m s	Remarks	
16.	+iP LmH LmV	A B B	21 08 58.6 48.0 48.0	<u>Kurile Islands</u> 44.32 N 148.74 E H = 20 57 03.3 h = 54 km MB = 5.3 D = 78.34 Az = 333.7 (NEIS) PV A 1.3s 48.0nm M = 5.3 LmH B 16 0.9/um LmV B 17 1.0/um
16.	-eP eX LmH LmV	A A B B	22 07 31.5 07 36 45.0 45.0	<u>Kurile Islands</u> 49.63 N 155.94 E H = 21 55 50.8 h = 48 km MB=5.5 MS=4.7 D = 75.56 Az = 337.5 (NEIS) PV A 1.2s 40.7nm M = 5.2 XV A 1.6 41.2nm LmH B 17 1.0/um 5.2 LmV B 18 0.9/um 5.2
17.	eP e LmH LmV	A A B B	02 12 47.5 12 53 47.5 51.8	<u>Kodiak Island Region</u> 56.72 N 151.66 W H = 02 01 23.2 h = 17 km MB=5.0 MS=5.1 D = 72.11 Az = 11.1 (NEIS) PV A 1.6s 55.0nm M = 5.4 LmH B 17.5 0.8/um 5.1 LmV B 18 0.8/um 5.1
17.	eP	A	04 21 09	<u>Greece - Albania Border Region</u> 40.34 N 20.63 E H = 04 18 12.2 h = 47 km MB = 4.4 D = 12.08 Az = 331.6 (NEIS)
17.	eP LmH LmV	A B B	05 13 25 17.6 18.7	<u>Greece - Albania Border Region</u> 40.29 N 20.64 E H = 05 10 31.5 h = 17 km MB=5.2 MS=5.0 D = 12.12 Az = 331.6 (NEIS) PV A 1.4s 27.9nm M = 5.3 LmH B 14 8.4/um 4.9 LmV B 14 4.6/um
17.	eP epP	A A	17 42 25 42 40	<u>Off East Coast of Kamchatka</u> 52.25 N 160.27 E H = 17 30 52.6 h = 57 km MB = 4.6 D = 74.11 Az = 339.9 (NEIS) h = 57 km

Day	Phase	h m s	Remarks	
18.	eP e	A A	05 25 05.5 25 16	<u>Crete</u> 34.48 N 24.26 E H = 05 20 40.8 h = 20 km MB = 4.2 D = 18.60 Az = 334.1 (NEIS)
18.	eP	A	09 10 03.5	<u>Greece - Albania Border Region</u> 40.24 N 20.62 E H = 09 07 02.8 h = 10 km MB = 4.7 D = 12.17 Az = 331.8 (NEIS)
18.	ePP e	A A	18 44 40 44 54.5	<u>Java</u> 7.47 S 107.26 E H = 18 27 20.5 h = 88 km MB = 5.2 (ISC) D = 99.3
19.	eP	A	02 01 16	<u>Kurile Islands</u> 43.37 N 147.35 E H = 01 49 14.6 h = normal MB = 4.7 D = 78.75 Az = 333.1 (NEIS)
19.	eP LmH LmV	A B B	20 26 26 54.6 55.7	<u>Ascension Island Region</u> 10.27 S 13.09 W H = 20 15 52.6 h = normal MB = 4.8 D = 64.37 Az = 17.2 (NEIS) PV A 1.9s 30.3nm M = 5.1 LmH B 16 0.7/um 4.9 LmV B 16 0.7/um 5.0
20.	eP eS LmH LmV	AB C B B	01 04 58 14 50 40.3 42.9	<u>Hokkaido, Japan Region</u> 42.79 N 144.95 E H = 00 53 01.0 h = 51 km MB = 5.6 D = 78.44 Az = 331.8 (NEIS) PV A 1.8s 112.0nm M = 5.5 LmH B 18.5 1.7/um LmV B 19 1.8/um
20.	ePKHKP e	A A	19 44 19 47 03.5	<u>Tonga Islands Region</u> 23.77 S 175.91 W H = 19 24 24.3 h = normal MB=5.3 MS=5.4 D = 152.54 Az = 349.6 (NEIS) PKHKPV A 1.4s 30.2nm

Day	Phase	h m s	Remarks	
20.	ePKP2	A	20 09 29.5	<u>South Island, New Zealand</u> 44.35 S 168.12 E H = 19 48 37.7 h = 12 km MB = 5.4 D = 162.96 Az = 300 (ISC) PKP2V A 1.1s 16.1nm
20.	ePKIKP LmH LmV	A B B	21 38 55 22 22.8 30.7	<u>East New Guinea Region</u> 6.24 S 146.06 E H = 21 20 12.3 h = 111 km MB = 5.8 D = 121.77 Az = 327.7 (NEIS) PKIKPV A 1.0s 49.2nm LmH B 23 3.7/um LmV B 18 1.3/um
20.	eP	A	21 49 00	
21.	eP	A	01 15 08.5	<u>Afghanistan-USSR Border Region</u> 37.66 N 71.68 E H = 01 07 08.9 h = 93 km MB = 4.9 D = 43.84 Az = 307.2 (NEIS) traces
21.	e ePP LmH LmV	A A C C	03 31 56 32 30 04 20.0 22.5	<u>Banda Sea</u> 6.42 S 129.00 E H = 03 13 05.6 h = normal MB=5.4 MS=5.5 D = 112.13 Az = 322.4 (NEIS) LmH C 24s 0.9/um M = 5.3 LmV C 24 1.0/um 5.3
21.	ePKIKP ePKP2	A A	06 15 53 16 45.5	<u>South Island, New Zealand</u> 44.37 S 168.14 E H = 05 55 57.6 h = 49 km MB=5.8 MS=5.3 D = 162.98 Az = 299.9 (NEIS) PKP2V A 2.0s 154.0nm
21.	eP epP	A A	06 38 15 39 29	<u>India-East Pakistan Border Region</u> 25.68 N 90.91 E H = 06 27 41.8 h = 27 km MB = 4.7 D = 63.95 Az = 315.9 (NEIS) h = 47 km PKP2V A 2.0s 154.0nm

## Moxa

Day	Phase	h m s	Remarks
21.	ePKHKP ePKP2	A 11 42 09 A 42 18.5	<u>South of Fiji Islands</u> 23.69 S 176.44 W H = 11 22 37.3 h = 241 km MB = 4.5 D = 152.38 Az = 348.9 (NEIS)
21.	ePKIKP ePKHKP ePKP2 ePP LmH LmV	AC 13 00 12.5 A 00 19.5 A 00 30.5 B 03 50 B 14 17.0 B 18.1	<u>South of Fiji Islands</u> 23.71 S 175.98 W H = 12 40 22.1 h = normal MB=5.6 MS=6.3 D = 152.47 Az = 349.5 (NEIS) LmH B 20s 7.9/um M = 6.4 LmV B 20 8.0/um 6.5
21.	eP epP e	A 16 06 20 A 06 51.5 A 07 38.5	<u>Kamchatka</u> 52.17 N 157.51 E H = 15 54 59.2 h = 118 km MB = 5.8 D = 73.57 Az = 338.1 (NEIS) h = 129 km PV A 1.7s 97.0nm M = 5.3
21.	eP	A 16 16 10	<u>Svalbard Region</u> 76.47 N 7.10 E H = 16 10 39.1 h = normal MB = 4.7 D = 25.98 Az = 173.4 (NEIS) PV A 1.8s 33.8nm M = 4.6
21.	ePKHKP ePKP2 e	A 19 45 33 A 45 42 A 45 50	<u>South of Fiji Islands</u> 22.38 S 179.69 E H = 19 26 45.7 h = 576 km MB = 5.1 D = 150.28 Az = 344.6 (NEIS) PKHKPV A 1.1s 40.3nm
21.	ePKHKP	A 22 51 18	<u>Fiji Region</u> 21.77 S 178.79 W H = 22 32 30.8 h = 580 km MB = 4.5 D = 150.05 Az = 347 (ISC)
22.	ePKHKP	A 04 30 52	<u>South of Fiji Islands</u> 23.76 S 176.06 W H = 04 10 58.2 h = normal MB=5.0 MS=4.8 D = 152.50 Az = 349.4 (NEIS)
22.	ePKHKP	A 23 04 18	<u>Tonga Islands Region</u> 23.88 S 175.18 W H = 22 44 23.8 h = normal MB = 4.5 D = 152.76 Az = 350.5 (NEIS)

## September 1974

## Moxa

Day	Phase	h m s	Remarks
23.	eP	A 15 01 53	<u>Szechwan Province, China</u> 33.58 N 102.45 E H = 14 51 08.8 h = normal MB=5.1 MS=4.9 D = 65.37 Az = 315.5 (NEIS)
23.	eP e	A 16 01 02 A 01 14	<u>Southern Greece</u> 37.60 N 21.20 E H = 15 57 28.0 h = 49 km MB = 4.2 D = 14.73 Az = 335.4 (NEIS)
23.	eP ePP eS eSS LmV LmH	A 19 37 16 C 39 10 C 44 28 C 48 15 B 20 01.4 B 03.7	<u>Gabon</u> 0.28 S 12.92 E H = 19 28 17.2 h = normal MB=5.9 MS=6.2 D = 50.75 Az = 358.9 (NEIS) PV A 2.0s 333.3nm M = 6.0 LmH B 15 8.4/um 5.9 LmV B 15 8.5/um 6.0
24.	eP	A 02 07 46	<u>North Atlantic Ridge</u> 13.61 N 44.84 W H = 01 57 46.1 h = normal MB=5.1 MS=4.5 D = 58.51 Az = 38.5 (NEIS)
25.	LmH	C 16 53.0	<u>East New Guinea Region</u> 9.86 S 150.04 E H = 15 49 37.5 h = 10 km MB=5.4 MS=5.0 D = 126.90 Az = 328.1 (NEIS) LmH C 34s 0.5/um M = 5.0
26.	eP	A 07 42 36	<u>Off East Coast of Honshu, Japan</u> 39.28 N 144.91 E H = 07 30 21.0 h = 42 km MB = 4.9 D = 81.53 Az = 332.1 (NEIS)
26.	eP	A 11 41 06	<u>Unimak Island Region</u> 54.30 N 164.75 W H = 11 29 23.3 h = 31 km MB=4.9 MS=4.4 D = 75.39 Az = 2.4 (NEIS)
26.	eP ePP	A 15 17 18 A 20 53	<u>Southern Nevada</u> 37.13 N 116.07 W H = 15 05 00.2 h = 0 km MB=5.6 MS=4.2 D = 81.23 Az = 30.7 (NEIS) Nuclear explosion (AEC) PV A 1.2s 32.5nm M = 5.3 PPV A 1.2 20.33nm 5.2



Day	Phase	h m s	Remarks
27.	eP AB	03 22 39.5	<u>Off East Coast of Honshu, Japan</u>
	Pm A	23 03	33.60 N 141.13 E
	ePP A	26 00	H = 03 10 07.9 h = 46 km MB=5.8 MS=6.1
	eS B	33 00	D = 85.03 Az = 330.5 (NEIS)
	eSS C	38 47	PV A 1.3s 50.2nm M = 5.5
	LmH B	57.9	PmV A 1.5 226.1nm 6.1
	LmV B	04 07.5	LmH B 18.5 16.1/um 6.4 LmV B 15 7.7/um 6.2
27.	+eP AB	04 21 26	<u>Colombia</u> 2.69 N 71.42 W
	eS B	31 47	H = 04 09 01.3 h = 43 km MB=5.6 MS=5.8 D = 83.51 Az = 39.5 (NEIS) PV A 2.3s 146.0nm M = 5.6
27.	-iP A	05 36 30	<u>Nepal</u> 28.60 N 85.50 E
			H = 05 26 39.4 h = 70 km MB = 5.6 D = 58.49 Az = 314.2 (NEIS) PV A 0.8s 88.5nm M = 5.9
27.	+iP AB	05 59 27.5	<u>Kurile Islands</u> 43.18 N 146.65 E
	eS B	06 09 22	H = 05 47 29.4 h = 43 km MB=6.0 MS=6.7
	LmH B	39.0	D = 78.68 Az = 332.7 (NEIS)
	LmV B	39.3	PV A 1.4s 326.0nm M = 6.1 LmH B 17 101.0/um 7.2 LmV B 17 99.0/um 7.3
27.	ePKIKP A	24 02 44	<u>South of Fiji Islands</u> 25.29 S 178.57 E
	ePKHKP A	02 51.5	H = 23 44 00.9 h = 605 km MB = 5.4
	iPKP2 A	03 05	D = 152.76 Az = 341.7 (NEIS) PKIKPV A 2.0s 42.7nm PKHKPV A 1.3 34.9nm PKP2V A 1.4 107.0nm
28.	ePP A	01 39 21	<u>Crete</u> 34.97 N 23.97 E
	LmH C	47.6	H = 01 35 00.5 h = 51 km MB = 4.5
	LmV C	47.6	D = 18.06 Az = 333.9 (NEIS) PPV A 1.4s 14.0nm

Day	Phase	h m s	Remarks
28.	ePKP A	07 30 55.5	<u>Loyalty Islands Region</u> 22.19 S 170.21 E
			H = 07 11 14.4 h = 31 km MB=5.4 MS=4.5 D = 147.02 Az = 334.7 (NEIS) PKPV A 1.8s 50.6nm
28.	eP A	21 06 08.5	<u>South of Honshu, Japan</u> 33.23 N 140.80 E
			H = 20 53 37.7 h = 59 km MB = 4.8 D = 85.21 Az = 330.3 (NEIS)
29.	eP A	06 39 57	<u>Dodecanese Islands</u> 35.50 N 27.88 E
	LmH B	47.6	H = 06 35 34.4 h = 56 km MB = 4.6
	LmV B	49.8	D = 19.18 Az = 327.1 (NEIS) PV A 1.1s 40.3nm M = 4.6 LmH B 18 1.0/um LmV B 14 0.6/um
29.	eP A	16 00 15	<u>Southern Sinkiang Prov., China</u>
	e(PP) A	01 49.5	40.39 N 77.98 E
	eS C	07 00	H = 15 51 51.7 h = normal MB=5.4 MS=5.1
	eSS C	10 28	D = 46.16 Az = 306.0 (NEIS)
	LmH B	20.7	PV A 1.6s 55.0nm M = 5.2
	LmV B	20.7	LmH B 17 3.3/um 5.4 LmV B 16 4.3/um 5.6
29.	eP A	23 38 38.5	<u>Tunisia</u> 35.09 N 9.61 E
	LmV B	46.2	H = 23 34 57.3 h = normal MB = 4.5
	LmH B	46.3	D = 15.62 Az = 4.8 (NEIS) LmH B 13s 0.4/um M = 3.1 LmV B 14 0.6/um
29.	eP A	24 00 36	<u>Sea of Okhotsk</u> 53.48 N 153.68 E
			H = 23 50 03.9 h = 470 km MB = 4.6 D = 71.45 Az = 335.6 (NEIS)
30.	eP A	00 26 17.5	<u>Near East Coast of Honshu, Japan</u>
			38.51 N 142.05 E H = 00 14 05.7 h = 49 km MB = 4.7 D = 81.13 Az = 330.6 (NEIS)

Day	Phase	h m s	Remarks
30.	eP A	07 51 04	<u>Northern Sinkiang Prov., China</u> 43.09 N 88.44 E H = 07 42 04.3 h = 32 km MB = 5.0 D = 50.86 Az = 306.9 (NEIS) PV A 1.1s 20.2nm M = 5.0
30.	eP A	08 28 58	<u>Southern Sumatra</u> 1.57 S 99.81 E H = 08 16 05 D = 90.05 Az = 320 (ISC)

Day	Phase	h m s	Remarks
1.	ePn A eSn A LmH B LmV B	00 37 45.5 39 52 41.8 42.0	<u>Southern Italy</u> 39.69 N 18.77 E H = 00 34 40.2 h = 22 km MB = 3.9 D = 12.06 Az = 337.7 (NEIS) LmH B 15.5s 2.0/um M = 4.2 LmV B 12 0.5/um
1.	eP C ePP AB eSKS C ePS C eSS B LmH B LmV B	04 21 25 25 37 32 06 34 42 40 25 05 13.0 13.0	<u>South of Mariana Islands</u> 12.03 N 141.12 E H = 04 07 26.9 h = 43 km MB=5.3 MS=5.7 D = 103.68 Az = 329.6 (NEIS) LmH B 17s 5.0/um M = 6.1 LmV B 18 5.5/um 6.1
2.	eP AC ePP AC eSKS C ePS C eSS C LmH B LmV B	03 08 30 12 22 19 10 21 14 26 15 57.2 58.4	<u>Near Coast of Northern Peru</u> 5.91 S 81.09 W H = 02 54 59.7 h = 5 km MB=5.7 MS=5.6 D = 96.24 Az = 39.8 (NEIS) PV A 2.2s 54.5nm M = 5.7 PPV A 2.8 129.0nm 5.9 LmH B 30 3.5/um 5.7 LmV B 33 4.4/um 5.7
2.	ePKP2 A	14 26 21.5	<u>Tonga Islands Region</u> 22.74 S 175.31 W H = 14 06 29.0 h = normal MB=4.9 MS=4.8 D = 151.62 Az = 350.7 (NEIS)
2.	eP A LmV C	15 08 02.5 42.0	<u>Near East Coast of Kamchatka</u> 51.67 N 158.08 E H = 14 56 30.1 h = 51 km MB = 5.2 D = 74.17 Az = 338.6 (NEIS) PV A 1.0s 11.8nm M = 4.8
3.	eP A	11 19 47	<u>Hindu Kush Region</u> 36.45 N 70.73 E H = 11 11 57.8 h = 198 km MB = 5.0 D = 43.97 Az = 308.1 (NEIS) PV A 1.3s 17.5nm M = 4.4

Day	Phase	h m s	Remarks	
3.	ePn eSg	A A	13 00 17.5 00 41.5	Probably explosion D c. 1.7
3.	eP Pm ePP eS eSS LmH	AB A B B B B	14 35 12 35 44 39 32 47 12 53 10 23.5	<u>Near Coast of Peru</u> 12.27 S 77.80 W H = 14 21 29.1 h = 13 km MB=6.6 MS=7.6 D = 99.00 Az = 40.1 (NEIS) PV A 3.0s 500.0nm M = 6.5 PV B 16 2.3/um 6.4 PmV A 3.5 2666.7nm 7.2 PPV B 12 4.0/um 6.7
4.	eP	A	04 11 13	<u>Salta Province, Argentina</u> 22.75 S 63.73 W H = 03 58 31.0 h = 533 km MB = 5.0 D = 98.50 Az = 38.5 (NEIS)
4.	eP	A	06 55 44	<u>Off East Coast of Kamchatka</u> 52.29 N 160.26 E H = 06 44 09.5 h = normal MB=4.7 MS=3.9 D = 74.06 Az = 339.8 (NEIS)
4.	eP e	A A	17 47 44 47 58	<u>Off East Coast of Kamchatka</u> 52.67 N 159.00 E H = 17 36 13.7 h = normal MB=4.9 MS=4.1 D = 73.44 Az = 339.0 (NEIS) PV A 1.0s 15.8nm M = 4.9
4.	eP	A	18 07 13	<u>Off East Coast of Kamchatka</u> 52.69 N 159.27 E H = 17 55 42.4 h = normal MB=4.9 MS=4.4 D = 73.48 Az = 339.2 (NEIS)
4.	eP LmH LmV	A B B	18 09 44 44.3 46.1	<u>Off East Coast of Kamchatka</u> 52.41 N 159.96 E H = 17 58 10.7 h = normal MB = 5.0 D = 73.89 Az = 339.6 (NEIS) PV A 1.0s 19.7nm M = 5.1 LmH B 14 0.6/um 5.0 LmV B 12 0.3/um 4.9

Day	Phase	h m s	Remarks	
4.	-iP ePP eS LmH LmV	AB B B B B	22 33 11.5 35 09 40 06 56.1 23 00.2	<u>West Pakistan</u> 26.29 N 66.54 E H = 22 24 32.7 h = normal MB=5.8 MS=5.9 D = 48.08 Az = 315.5 (NEIS). PV A 1.6s 560.4nm M = 6.3 PV B 8 2.1/um 6.0 PPV B 5.5 1.2/um 6.0 LmH B 19 15.6/um 6.0 LmV B 14 8.2/um 5.9
4.	+eP e	AZN AZ	22 47 03.5 47 17.5	<u>Off East Coast of Kamchatka</u> 52.20 N 160.50 E H = 22 35 26.6 h = 16 km MB = 5.3 D = 74.20 Az = 340.0 (NEIS) PV A 1.2s 40.6nm M = 5.3
4.	eP	A	23 24 29.5	<u>West Pakistan</u> 26.32 N 66.75 E H = 23 15 49.2 h = normal MB = 4.8 D = 48.18 Az = 315.5 (NEIS)
5.	ePKP	A	03 21 08	<u>New Hebrides Islands</u> 20.40 S 169.59 E H = 03 01 42.3 h = 109 km MB = 4.6 D = 145.16 Az = 335.3 (NEIS)
5.	eP	A	04 45 35	<u>Off East Coast of Kamchatka</u> 52.24 N 160.23 E H = 04 34 00.3 h = normal MB = 4.6 D = 74.11 Az = 339.8 (NEIS)
6.	eP	A	01 30 28	<u>Southern Persia</u> 26 1/2 N 56 E H = 01 22 43 (BCIS) D = 41.4 PV A traces
6.	LmV LmH	C C	18 02.0 02.4	<u>Near Coast of Guerrero, Mexico</u> 17.0 N 100.1 W H = 17 09 39 h = 51 km MB = 5.1 (ISC) D = 90.0 LmH C 22s 0.3/um LmV C 22s 0.3/um

## Moxa

Day	Phase	h m s	Remarks
6.	e(P)	A 20 05 39	<u>South of Honshu, Japan</u> 33.17 N 140.63 E H = 19 53 02.7 h = 67 km MB = 4.6 D = 85.20 Az = 330.2 (NEIS)
7.	LmH LmV	B 05 54.0 B 56.7	<u>Near Coast of Peru</u> 12.17 S 77.8 W H = 04 57 55 h = 55 km MB = 5.0 (ISC) D = 98.9 LmH B 19s 0.5/um LmV B 18 0.5/um
7.	+eP	A 10 04 18	<u>Hokkaido, Japan Region</u> 45.93 N 143.14 E H = 09 53 09.7 h = 325 km MB = 5.2 D = 75.07 Az = 330.4 (NEIS) PV A 1.3s 39.4nm M = 5.0
7.	eP LmH LmV	A 11 46 30 B 50.8 B 52.0	<u>Southern Italy</u> 39.73 N 18.85 E H = 11 43 36.9 h = 19 km MB = 4.6 D = 12.04 Az = 337.4 (NEIS) PV A 0.9s 15.6nm M = 5.3 LmH B 14 3.3/um 4.5
7.	+eP ePP	A 17 22 51 A 26 20	<u>Nicaragua</u> 11.58 N 85.44 W H = 17 10 36.3 h = 225 km MB = 5.1 D = 85.58 Az = 39.3 (NEIS) PV A 1.0s 39.4nm M = 5.2
7.	ePKIKP e ePS ePKKP eSS	A 22 11 16 A 14 24 C 21 14 A 21 37 C 27 40	<u>South Sandwich Islands Region</u> 58.30 S 27.37 W H = 21 52 40.4 h = normal MB = 6.0 D = 113.18 Az = 25.8 (NEIS) PKKPV A 3.0s 210.5nm
8.	eP	A 03 16 42	<u>Central Siberia</u> 60.59 N 118.15 E H = 03 07 14.9 h = normal MB = 4.6 D = 54.47 Az = 311.4 (NEIS)
8.	-iP ePP eS	A 10 01 44.0 B 04 16 B 10 28	<u>Leeward Islands</u> 17.34 N 62.01 W H = 09 50 58.1 h = 47 km MB=6.6 MS=7.5 D = 66.43 Az = 41.8 (NEIS)

## October 1974

## Moxa

Day	Phase	h m s	Remarks
cont. 8.	eSKS LmV LmH	B 10 11 36 B 26.7 B 26.8	PV A 2.1s 1150.0nm M = 6.6 PV B 16 35.4/um 7.1 LmH B 20 74.7/um 6.9 LmV B 20 88.6/um 7.1
8.	eP	A 19 54 25	<u>Honshu, Japan</u> 36.15 N 139.76 E H = 19 42 08.7 h = 56 km MB = 5.0 D = 82.27 Az = 329.6 (NEIS)
9.	ePKP	A 06 56 37	<u>Fiji Islands Region</u> 18.77 S 177.12 W H = 06 37 36.4 h = 394 km MB = 4.7 D = 147.45 Az = 349.7 (NEIS)
9.	+iP eS eSS eP'P' e LmH LmV	AB 07 43 59.5 B 53 45 C 59 00 A 08 11 08 A 11 23 B 08 21.8 B 22.0	<u>Kurile Islands Region</u> 44.72 N 150.12 E H = 07 32 02.2 h = 49 km MB=6.3 MS=6.4 D = 78.41 Az = 384.5 (NEIS) PV A 1.4s 686.0nm M = 6.5 LmH B 20 45.1/um 6.8 LmV B 19 53.6/um 6.9
9.	eP	A 18 24 09	<u>Ionian Sea</u> 37.57 N 20.81 E H = 18 20 43.4 h = 40 km MB = 4.0 D = 14.63 Az = 336.2 (NEIS)
9.	ePKP	A 20 44 55.5	<u>Tonga</u> 20.5 S 173.2 W H = 20 25 12 h = 33 km MB = 4.7 D = 149.65 Az = 354 (ISC)
10.	ePKHKP ePKP2	A 02 05 59 A 06 07	<u>South of Fiji Islands</u> 22.12 S 179.49 W H = 01 47 12.7 h = 588 km MB = 5.1 D = 150.23 Az = 345.7 (NEIS) PKHKPV A 1.4s 34.9nm
10.	epPKP	A 02 53 19	<u>South of Fiji Islands</u> 26.50 S 177.12 W H = 02 33 13.3 h = 97 km MB = 5.1 D = 154.98 Az = 346.8 (NEIS)

Day	Phase	h m s	Remarks
10.	eiPn	A 04 04 10.5	<u>Austria</u> 47.86 N 12.28 E
	ePg	A 04 22	H = 04 03 27.4 h = normal
	eSn	A 04 48	D = 2.83 Az = 351.4 (NEIS)
	eSg	A 05 03.5	
10.	ePn	A 05 17 21	<u>Austria</u> 47.5 N 12.5 E
	eiSg	A 18 13	H = 05 16 32 h = 9 km D = 3.19 Az = 350 (ISC)
10.	+eP	AB 07 00 19	<u>Hokkaido, Japan Region</u>
	ePP	AB 03 18	40.96 N 143.13 E
	eS	B 10 16	H = 06 48 14.0 h = 29 km MB = 5.8 MS = 6.2 (NEIS) D = 79.40 PV A 2.0s 256.4nm M = 5.9 PPV A 1.6 87.9nm 5.7
10.	eP1	AB 07 08 51.5	<u>Off East Coast of Honshu, Japan</u>
	+iP2	A 08 56.5	40.93 N 143.11 E
	ePP	B 11 52	H = 06 56 49.0 h = 45 km MB=5.8 MS=6.2
	eS	B 18 54	D = 79.42 Az = 331.0 (NEIS)
	LmH	B 42.8	P1V A 1.3s 34.9nm M = 5.2
	LmV	B 47.6	P2V A 2.0 461.5nm 6.1 PPV A 1.6 126.4nm 5.8 LmH B 18 56.8/um 7.0 LmV B 18 51.6/um 6.9
10.	eP	A 16 17 33.5	<u>Afghanistan-USSR Border Region</u> 37.46 N 71.81 E H = 16 09 35.7 h = 119 km MB = 4.8 D = 44.0 Az = 307.4 (NEIS) PV A 0.8s 19.2nm M = 4.9
10.	eP	A 20 06 38.5	<u>Near Coast of Peru</u> 12.44 S 77.61 W*
	LmV	B 55.8	H = 19 52 59.0 h = 27 km MB=5.3 MS=5.1
	LmH	B 56.3	D = 99.01 Az = 40.1 (NEIS) PV A 1.6s 11.0nm M = 5.1 LmH B 16 0.25/um 4.8 LmV B 16 0.35/um 5.0

Day	Phase	h m s	Remarks
10.	eP	A 21 45 28.5	<u>Southern Sumatra</u> 4.14 S 102.83 E
	e	A 45 49	H = 21 32 10.6 h = 21 km MB = 6.0
	LmH	B 22 50.9	D = 93.94 Az = 320.4 (NEIS)
	LmV	B 50.9	PV A 1.2s 48.7nm M = 5.8 LmV B 18 0.3/um 4.8
10.	LmH	B 22 00.7	<u>Off Coast of Peru</u> 13.04 S 77.38 W
	LmV	B 00.7	H = 20 57 51 h = 62 km MB = 4.7 (ISC) D = 99.3 LmH B 15s 0.3/um LmV B 16 0.35/um
11.	ePKHKP	A 06 20 20	<u>West Macquarie Island</u> 60.66 S 153.32 E
	LmH	B 07 40.8	H = 06 00 14.2 h = normal MB = 5.3
	LmV	B 41.3	D = 156.52 Az = 262.0 (NEIS) LmH B 18s 0.6/um M = 5.4 LmV B 19 0.7/um 5.5
11.	e	A 08 54 10	<u>West of Macquarie Island</u>
	ePKP2	A 54 18	60.75 S 153.93 E
	e	A 54 27.5	H = 08 33 52.3 h = normal MB=5.3 MS=6.1
	LmV	V 10 14.6	D = 156.81 Az = 261.2 (NEIS)
11.	LmH	B 16.7	LmH B 18.5s 3.3/um M = 6.1 LmV B 18 2.8/um 6.1
	eP	AB 09 17 22	<u>Iceland Region</u> 67.65 N 20.10 W H = 09 12 19.3 h = normal MB=4.8 MS=5.4 D = 23.13 Az = 121.5 (NEIS) PV A 1.2s 40.6nm M = 4.8
11.	eP	A 14 24 08	<u>North of Severnaya Zemlya</u> 83.46 N 117.73 E H = 13 41 21.4 h = normal MB = 4.3 D = 41.77 Az = 293.3 (NEIS) PV A 1.2s 12.2nm M = 4.5

Day	Phase	h m s	Remarks
11.	+eP A	14 24 23	<u>Taiwan</u> 23.15 N 121.37 E
	LmH B	15 06.9	H = 14 11 56.1 h = 44 km MB = 5.3
	LmV B	06.9	D = 84.06 Az = 323.0 (NEIS) PV A 1.4s 37.2nm M = 5.2 LmH B 14 2.1/um 5.7 LmV B 14 3.4/um 5.9
11.	eP A	18 22 57.5	<u>Northwest of Kurile Islands</u> 52.30 N 152.40 E H = 18 12 16.5 h = 421 km MB = 4.5 D = 72.20 Az = 335.0 (NEIS) PV A 1.0s 15.8nm M = 4.6
12.	+eP AB	04 59 39.5	<u>Off East Coast of Honshu, Japan</u>
	eS C	05 09 40	40.49 N 143.49 E
	LmH B	33.3	H = 04 47 31.4 h = 26 km MB=5.3 MS=5.3
	LmV B	39.3	D = 79.94 Az = 331.2 (NEIS) PV A 1.7s 48.5nm M = 5.2 LmH B 18.5 3.5/um 5.7 LmV B 17 3.2/um 5.8
12.	eP A	05 26 37	<u>North Atlantic Ridge</u> 49.69 N 29.42 W H = 05 21 01.1 h = normal MB = 4.4 D = 26.07 Az = 72.0 (NEIS) PV A traces
12.	+eP AB	06 27 00	<u>Off East Coast of Honshu, Japan</u>
	eS BC	36 48	40.51 N 143.58 E
	eSS C	42 00	H = 06 14 51.5 h = 24 km MB=5.5 MS=6.0
	LmH B	07 00.9	D = 79.96 Az = 331.3 (NEIS)
	LmV B	13.5	PV A 2.4s 269.0nm M = 5.8 LmH B 19 17.3/um 6.5 LmV B 13.5 9.9/um 6.4
12.	eP A	12 44 56	<u>Kodiak Island Region</u> 56.15 N 153.72 W H = 12 33 24.9 h = 10 km MB=4.8 MS=4.8 D = 72.88 Az = 9.7 (NEIS) PV A 2.2s 109.1nm M = 5.6

Day	Phase	h m s	Remarks
12.	eP A	12 57 37.5	<u>Off East Coast of Honshu, Japan</u>
	e A	57 48	40.37 N 143.61 E
	LmH B	13 36.6	H = 12 45 25.7 h = 10 km MB = 4.7
	LmV B	40.1	D = 80.09 Az = 331.3 (NEIS) PV A 1.6s 22.0nm M = 4.9 LmH B 14.5 0.5/um 5.0 LmV B 15 0.5/um 4.9
12.	eP A	16 29 33.5	<u>Off East Coast of Honshu, Japan</u>
	e A	29 43	40.31 N 143.69 E
	LmH B	17 08.7	H = 16 17 23.1 h = 14 km MB = 4.9
	LmV B	12.5	D = 80.18 Az = 331.3 (NEIS) PV A 2.2s 43.6nm M = 5.1 LmH B 13 0.6/um 5.1 LmV B 13 0.5/um 5.1
12.	ePKP A	19 18 18	<u>Fiji Islands Region</u> 17.88 S 178.68 W H = 18 59 44.2 h = 623 km MB = 4.9 D = 146.29 Az = 348.2 (NEIS) PKPV A 1.4s 14.0nm
12.	ePKP2 A	22 05 56	<u>Tonga</u> 20.29 S 174.07 W H = 21 46 05.2 h = 33 km MB = 4.8 (NEIS) D = 149.38 traces
13.	eP A	02 48 57	<u>Molucca Passage</u> 0.52 N 125.99 E
	epP A	49 04.5	H = 02 34 53.1 h = 41 km MB=5.5 MS=5.1
	ePP A	53 15	D = 104.82 Az = 323.1 (NEIS)
	epPP A	53 21	PV A traces
	LmV B	03 38.7	LmH B 22s 0.7/um M = 5.2
	LmH B	38.8	LmV B 20 0.9/um 5.3
13.	ePKP2 A	07 15 58	<u>Tonga Islands</u> 20.31 S 173.99 W H = 06 56 06.7 h = normal MB=4.3 MS=4.7 D = 149.41 Az = 353.0 (NEIS) traces

Day	Phase	h m s	Remarks
13.	LmH B	22 02.3	<u>Tibet</u> 34.76 N 87.23 E H = 21 29 52.2 h = 33 km MB = 5.1 (ISC) D = 55.5 LmH B 16s 0.9/um M = 4.9 LmV B 16 0.6/um 4.8
	LmV B	06.1	
14.	eP A	04 13 13.5	<u>Yugoslavia</u> 43.72 N 17.58 E H = 04 11 16.3 h = normal MB = 4.2 D = 8.03 Az = 331.7 (NEIS)
	e A	15 09	
14.	eP A	07 58 04	<u>Peru-Ecuador Border Region</u> 2.38 S 76.45 W H = 07 45 17.2 h = 162 km MB = 5.1 D = 90.59 Az = 39.5 (NEIS) PV A 1.7s 30.3nm M = 5.0
14.	eP AB	14 23 51.5	<u>Off East Coast of Honshu, Japan</u> 40.57 N 143.68 E H = 14 11 41.1 h = 15 km MB=5.3 MS=5.7 D = 79.94 Az = 331.3 (NEIS) PV A 2.0s 106.8nm M = 5.5 LmH B 19 10.3/um 6.2 LmV B 15 4.4/um 5.9
	ePP BC	26 52	
	eS B	33 50	
	LmH B	58.0	
	LmV B	15 05.8	
14.	eP A	21 14 12.5	<u>Off East Coast of Honshu, Japan</u> 40.54 N 143.68 E H = 21 02 03.0 h = 21 km MB = 4.9 D = 79.97 Az = 331.3 (NEIS)
14.	ePKHKP A	21 20 21	<u>South of Fiji Islands</u> 25.51 S 179.87 E H = 21 01 17.7 h = 462 km MB = 4.8 D = 153.33 Az = 343.2 (NEIS)
	ePKP A	20 37.5	
15.	+eP AB	01 28 55.5	<u>Off East Coast of Honshu, Japan</u> 40.63 N 143.68 E H = 01 16 47.1 h = 22 km MB=5.4 MS=5.5 D = 79.89 Az = 331.3 (NEIS) PV A 1.8s 67.5nm M = 5.4 LmH B 18.5 6.1/um 6.0 LmV B 14 2.5/um 5.7
	eS B	38 55	
	LmH B	02 03.2	
	LmV B	09.6	

Day	Phase	h m s	Remarks
15.	eP A	06 16 04	<u>Kurile Islands</u> 44.45 N 148.37 E H = 06 04 11.9 h = 79 km MB = 5.0 D = 78.11 Az = 333.5 (NEIS) PV A 1.4s 23.3nm M = 4.9
15.	ePKP A	07 09 10	<u>Samoa Islands Region</u> 16.58 S 172.71 W H = 06 49 32.2 h = normal MB=4.9 MS=5.0 D = 145.84 Az = 355.1 (NEIS) PKPV A 2.0s 34.2nm
	LmH C	08 21.0	
	LmV C	21.0	
15.	ePKP2 A	07 51 51.5	<u>Antarctica</u> 70.52 S 161.53 E H = 07 31 42.0 h = 33 km MB = 4.9 (NEIS) D = 155.68
15.	eP A	09 59(57)	<u>Greece</u> 40.73 N 22.98 E H = 09 56 52.4 h = 33 km MB = 4.2 (NEIS) D = 12.69 PV A traces LmH C 14s 0.8/um M = 3.9
	LmH C	10 04.1	
15.	eP A	15 28 01	<u>Off East Coast of Kamchatka</u> 52.27 N 160.3 E H = 15 16 20.5 h = 0 km MB = 4.8 D = 74.09 Az = 340 (ISC)
15.	eP A	16 13 43	<u>Off East Coast of Kamchatka</u> 52.56 N 159.33 E H = 16 02 12.1 h = normal MB = 4.7 D = 73.61 Az = 339.2 (NEIS)
15.	ePKIKP A	21 47 34	<u>Kermadec Islands</u> 30.71 S 178.01 W H = 21 27 42.5 h = 59 km MB = 5.7 D = 158.82 Az = 342.9 (NEIS) PKIKPV A 1.8s 47.3nm PKP2V A 1.5 52.8nm LmH C 28 0.4/um LmV C 35 0.35/um
	ePKP2 A	48 09.5	
	LmV C	22 50.5	
	LmH C	51.5	

Day	Phase	h m s	Remarks
16.	ePn	A 03 42 52.5	<u>Svabian Jura Region, Fed. Rep. of Germany</u>
	eiPg	A 43 02.5	48.29 N 9.12 E
	eSn	A 43 26	H = 03 42 08.6 h = 21 km
	eSg	A 43 39	D = 2.87 Az = 33.7 (NEIS)
16.	eP	A 05 09 24	<u>Southern Sinkiang Prov., China</u> 39.28 N 74.12 E H = 05 01 13.0 h = normal MB = 4.9 (NEIS) D = 44.41
	+eiP	A 05 42 05	<u>North Atlantic Ocean</u> 52.65 N 32.16 W H = 05 36 27.6 h = normal MB = 5.0 (NEIS) D = 26.93 PV A 1.4s 34.9nm
16.	+iP1	AB 05 50 48.8	<u>North Atlantic Ocean</u> 52.64 N 32.07 W
	iP2	AB 51 00	H = 05 45 09.8 h = normal
	eiS	B 55 11	MB = 5.8 MS = 6.9 (NEIS)
	LmH	B 06 01.3	D = 26.88
	LmV	B 01.4	P1V A 1.0s 138.0nm M = 5.5 P2V A 1.6 879.1nm 6.1 P2V B 16 18.8/um 6.5 LmH B 16 535.4/um 7.2
16.	+iP	A 06 40 49.3	<u>Eastern Kazakh SSR</u> 49.97 N 78.97 E
	ePn	A 42 20.5	H = 06 32 57.5 h = 0 km MB = 5.5 (NEIS)
	ePP	A 42 25.5	D = 41.66 Underground explosion MB = 6.4 (UPP) PV A 1.0s 102.0nm M = 5.5
16.	+iP	AB 09 41 58.5	<u>Off East Coast of Honshu, Japan</u>
	e(PP)	A 45 06	40.34 N 143.67 E
	e	A 45 16	H = 09 29 49.0 h = 24 km
	LmH	B 10 18.6	MB = 5.6 MS = 5.2 (NEIS)
	LmV	B 24.8	D = 80.14 PV A 1.6s 90.7nm M = 5.5 LmH B 16 1.7/um 5.5 LmV B 13 1.4/um 5.5

Day	Phase	h m s	Remarks
16.	ePKIKP	A 17 49 24.5	<u>New Britain Region</u> 6.32 S 148.38 E
	LmH	C 18 32.4	H = 17 30 34.7 h = 70 km MB = 5.7 (NEIS)
	LmV	C 41.0	D = 123.05 LmH C 30s 0.7/um LmV C 24 0.4/um
16.	eSg	A 19 51 16.5	<u>Poland</u> 50.36 N 18.88 E H = 19 48 45.1 M = 3.2 (WAR) D = 4.7
17.	LmH	B 22 30.6	<u>Afghanistan-USSR Border Region</u>
	LmV	C 32.6	36.64 N 71.24 E H = 22 09 08.6 h = 191 km MB = 4.5 (ISC) D = 44.2 LmH B 16s 0.5/um LmV C 14 0.6/um
18.	eP	A 00 37 29	<u>Leeward Islands</u> 17.60 N 62.21 W
	epP	A 37 41	H = 00 26 42.6 h = 45 km
	LmH	C 59.0	MB = 5.2 MS = 4.4 (NEIS)
	LmV	C 59.0	D = 66.36 h = 46 km PPV A 2.0s 42.7nm M = 5.5 LmH C 30 0.6/um 4.7 LmV C 30 0.9/um 4.9
18.	ePKIKP	A 09 22 48	<u>Near North Coast of New Guinea</u>
	e	A 23 23.5	3.16 S 142.04 E
	e	A 23 46	H = 09 04 04.3 h = 36 km MB = 5.4 (NEIS)
	ePP	A 23 54.5	D = 117.03
	eSS	C 40 10	LmH B 18s 0.6/um M = 5.3
	LmH	B 10 16.1	LmV B 17 0.7/um 5.4
18.	ePKP	AB 12 11 26	<u>Samoa Islands Region</u>
	e	A 11 30	16.33 S 172.45 W
	LmH	C 13 16.0	H = 11 51 49.0 h = normal MB = 5.4 MS = 5.2 (NEIS) D = 145.62 PKPV A 1.5s 123.0nm



Day	Phase	h m s	Remarks
18.	eP	A 14 14 18.5	<u>Unimak Island Region</u> 53.63 N 163.80 W H = 14 02 33.8 h = 42 km MB = 4.7 (NEIS) D = 76.03 PV A 1.2s 16.3nm
18.	e	A 17 37 36.5	<u>South Pacific Cordillera</u> 55.39 S 128.78 W H = 17 17 44.3 h = normal MB = 5.0 MS = 5.5 (NEIS) D = 155.95 PKP2V A 1.3s 21.8nm
19.	ePKIKP	A 04 05 46.5	<u>New Hebrides</u> 14.21 S 167.13 E H = 03 46 36.0 h = 165 km MB = 4.8 (NEIS) D = 138.59
19.	e	A 04 09 15	<u>South of Honshu, Japan</u> 30.76 N 141.46 E H = 03 56 19.8 h = 27 km MB = 4.9 MS = 4.9 (NEIS) D = 87.63 PPV A traces LmH B 15s 1.1/um M = 5.4 LmV B 14 1.0/um 5.4
19.	eP	A 06 59 17.5	<u>Northern Celebes</u> 0.15 S 123.85 E H = 06 45 17.0 h = 70 km MB = 5.5 (NEIS) D = 104.06 h = 62 km PV A 1.4s 16.3nm M = 5.7 PPV A 1.4 23.3nm 5.6 LmH C 38 2.10/um
19.	eP	A 09 52 04	<u>Kurile Islands</u> 47.27 N 152.02 E H = 09 40 31.0 h = 171 km MB = 4.4 (NEIS) D = 76.67
19.	e	A 11 10 18	

Day	Phase	h m s	Remarks
19.	eP	A 15 09 02	<u>North Atlantic Ridge</u> 31.00 N 41.45 W H = 15 00 58.4 h = normal MB = 4.5 MS = 4.6 (NEIS) D = 43.64 PV A 1.5s 22.6nm M = 4.7
20.	e	A 04 37 38	<u>Tonga</u> 20.27 S 174.39 W H = 04 17 35.3 h = 44 km MB = 5.0 (NEIS) D = 149.32
20.	ePKHKP	A 05 28 18	<u>South of Fiji Islands</u> 22.10 S 179.61 W H = 05 09 29.7 h = 570 km MB = 4.8 (NEIS) D = 150.19 PKHKPV A 1.2s 16.3nm
20.	ePn	A 11 28 46	<u>Southern Italy</u> 39.70 N 18.89 E H = 11 25 55.3 h = normal MB = 4.9 MS = 4.9 (NEIS) D = 12.08 LmH B 12.8s 9.5/um M = 5.1 LmV B 10 3.2/um
20.	eP	A 11 55 04	<u>Hokkaido, Japan Region</u> 42.32 N 142.31 E H = 11 43 05.1 h = 24 km MB = 5.3 MS = 4.9 (NEIS) D = 77.91 PV A 1.5s 30.2nm M = 5.1
20.	ePKIKP	A 15 46 39	<u>Solomon Islands</u> 6.60 S 154.79 E H = 15 27 39.6 h = 43 km MB = 5.6 MS = 5.7 (NEIS) D = 126.46 LmH B 20s 1.0/um M = 5.5 LmV B 20 0.7/um 5.4
20.	ePKIKP	A 19 58 31	<u>Solomon Islands</u> 6.59 S 154.72 E H = 19 39 31.1 h = 43 km MB = 5.5 (NEIS) D = 126.43

Day	Phase	h m s	Remarks
20.	LmH B	20 26.9	LmH B 20s 1.3/um
	LmV B	27.0	LmV B 20 1.5/um
21.	ePKHKP A	02 34 44	<u>South Pacific Cordillera</u>
	LmV B	03 40.8	54.32 S 133.10 W
	LmH B	41.0	H = 02 14 39.3 h = 33 km MB = 5.4 (NEIS) D = 158.34 LmH B 18s 0.8/um M = 5.5 LmV B 20 1.2/um 5.7
21.	+ePKIKP A	04 31 04	<u>Fiji Islands Region</u> 17.91 S 178.61 W
	ePKHKP A	31 06	H = 04 12 29.4 h = 602 km MB = 6.0 (NEIS) D = 146.33 PKIKPV A 1.2s 44.7nm PKHKPV A 1.3 140.0nm
21.	e(P) A	04 41 45	
21.	+eiP AB	12 59 39	<u>Near East Coast of Kamchatka</u>
	LmV C	13 29.8	53.93 N 160.48 E
	LmH C	30.3	H = 12 48 13.6 h = normal MB = 5.7 MS = 4.7 (NEIS) D = 72.57 PV A 1.4s 209.0nm M = 5.9 LmH C 29 1.1/um 5.0 LmV C 28 0.9/um 4.9
21.	eP1 A	14 52 03	<u>Southern Italy</u> 39.73 N 15.05 E
	eP2 A	52 05.5	H = 14 49 29.4 h = 317 km MB = 4.0 (NEIS)
	e(pP) A	53 21	D = 11.18 P1V A 0.7s 5.8nm M = 4.0 P2V A 1.1 26.2nm 4.4
21.	e A	15 20 00	<u>Off East Coast of Honshu, Japan</u>
	LmH C	53.8	40.56 N 143.58 E
	LmV C	16 01.5	H = 15 07 41.0 h = normal MB = 4.7 (NEIS) D = 79.91 LmH C 19s 1.1/um M = 5.2

240

Day	Phase	h m s	Remarks
22.	ePKP A	01 51 41	<u>Fiji Islands Region</u> 17.00 S 177.69 W H = 01 32 10.0 h = normal MB = 4.4 (NEIS) D = 145.61
	eP A	04 51 41	<u>Iceland Region</u> 62.34 N 26.02 W H = 04 46 32.6 h = 33 km MB = 4.0 (NEIS) D = 23.46
22.	eP AB	05 11 24	<u>Iceland Region</u> 62.12 N 26.38 W
	eS C	15 44	H = 05 06 16.2 h = normal
	LmV B	22.1	MB = 5.1 MS = 5.4 (NEIS)
	LmH B	22.3	D = 23.58 PV B 7s 1.0/um M = 5.4 LmH B 14 2.3/um 4.8 LmV B 15 3.3/um 5.1
22.	eP A	06 17 50	<u>North Atlantic Ridge</u> 14.91 N 45.05 W H = 06 08 04 h = 50 km MB = 4.7 D = 57.63 Az = 39 (ISC)
	eP A	09 17 37	<u>Southern Sumatra</u> 0.78 S 98.09 E H = 09 04 43.3 h = 33 km MB = 5.2 (NEIS) D = 88.35
22.	e(P) A	09 29 34	<u>Southern Sumatra</u> 0.74 S 98.09 E H = 09 16 41.0 h = 84 km MB = 5.2 (NEIS) D = 88.32 (P)V A 1.9s 60.6nm
	22.	eP1 A	12 11 16.5
eP2 B		11 20	H = 12 06 11.2 h = normal
+iP3 A		11 23.5	MB = 4.9 MS = 5.6 (NEIS)
eS C		15 40	D = 23.48
LmH B		22.3	P1V A 0.9s 23.4nm M = 4.2
LmV B		23.6	P2V B 7 1.6/um 5.6 P3V A 1.7 115.0nm 5.1 LmH B 13.5 3.2/um 4.9 LmV B 12 4.4/um 5.3

241

Day	Phase	h m s	Remarks
22.	ePKP A	14 42 46.5	<u>Tonga</u> 17.46 S 174.62 W H = 14 23 21.4 h = 130 km MB = 4.8 (NEIS) D = 146.52 PKPV A 1.1s 18.2nm
22.	eP A	17 57 16.5	<u>Tadzhikistan</u> 37.55 N 72.25 E H = 17 49 18.3 h = 127 km MB = 4.8 (NEIS) D = 44.26
22.	eP A	22 58 44.5	<u>Mindoro, Philippine Islands</u>
	ePP A	23 02 26	13.48 N 120.57 E
	eSKS C	09 14	H = 22 45 42.1 h = 41 km
	eS C	15 25	MB = 5.2 MS = 5.1 (NEIS)
	LmH B	41.5	D = 91.29
	LmV B	45.6	PV A 1.6s 27.5nm M = 5.4 LmH B 17 3.2/um 5.8 LmV B 16 3.2/um 5.9
23.	ePKIKP1 A	06 33 55	<u>D'Entrecasteaux Islands Region</u>
	ePKIKP2 AB	34 04	8.42 S 154.03 E
	e B	34 42	H = 06 14 54.0 h = 48 km MB=6.1 MS=7.2
	ePP AB	36 06	D = 127.69 Az = 330.6 (NEIS)
	ePS B	46 00	PKIKP1V A 2.0s 42.7nm
	eSS B	53 10	PKIKP2V B 1.7 145.5/um
	eSSS B	58 05	PPV A 4 1677.0nm M = 6.6
	LmH B	07 20.0	PPV B 15 8.7/um 6.7
	LmV B	30.5	LmH B 22.5 136.0/um 7.6 LmV B 21.5 74.3/um 7.3
23.	eP A	10 16 30.5	<u>North of Ascension Island</u> 0.73 S 16.14 W
	e A	16 37.5	H = 10 06 48.5 h = 24 km MB = 4.7 D = 56.39 AZ = 20.9 (NEIS)
23.	ePKIKP A	11 46 21	<u>West of Macquarie Island</u> 54.18 S 143.73 E H = 11 26 36.2 h = normal MB = 5.6 D = 151.02 Az = 282.9 (NEIS)

Day	Phase	h m s	Remarks
23.	eP A	11 56 38	<u>North of Ascension Island</u> 1.01 S 15.97 W H = 11 46 56.0 h = normal MB = 4.9 MS=5.1 D = 56.58 Az = 20.7 (NEIS) PV A 1.3s 24.0nm M = 5.1
24.	eP A	05 39 17	<u>South of Honshu, Japan</u> 33.41 N 140.82 E
	ePP A	42 34.5	H = 05 26 47.0 h = 63 km MB = 5.4 D = 85.06 Az = 330.3 (NEIS) PV A 1.6s 44.0nm M = 5.3
24.	e(P) A	07 43 39	<u>South of Honshu, Japan</u> 30.89 N 141.55 E
	ePP A	47 03.5	H = 07 30 49.5 h = 45 km MB=5.1 MS=4.8
	LmH B	08 25.6	D = 87.56 Az = 330.7 (NEIS)
	LmV B	29.7	LmH B 14s 1.0/um M = 5.4 LmV B 14 1.1/um 5.4
24.	ePKP A	21 21 59.5	<u>Fiji Islands Region</u> 17.42 S 178.67 W H = 21 03 20.7 h = 556 km MB = 5.0 D = 145.84 Az = 348.3 (NEIS)
25.	eP A	00 18 06.5	<u>Near Coast of Chiapas, Mexico</u>
	LmH C	50.0	15.84 N 93.09 W
	LmV C	50.5	H = 00 05 34.1 h = 120 km MB = 5.5 D = 86.93 Az = 38.1 (NEIS) PV A 2.0s 59.8nm M = 5.2 LmH C 27 0.8/um LmV C 27 1.9/um
25.	ePKIKP A	03 38 07	<u>New Britain Region</u> 6.31 S 152.28 E H = 03 19 07.7 h = 18 km MB=5.7 MS=5.0 D = 125.00 Az = 330.5 (NEIS) PKIKPV A 1.8s 33.8nm
25.	eP A	04 59 55.5	<u>North of Ascension Island</u> 0.91 S 16.15 W H = 04 50 14.7 h = normal MB = 4.8 D = 56.56 Az = 20.8 (NEIS)

Day	Phase	h m s	Remarks
25.	eP	A 04 59 55.5	<u>North of Ascension Island</u> 0.91 S 16.15 W H = 04 50 14.7 h = normal MB = 4.8 D = 56.56 Az = 20.8 (NEIS)
25.	eP	A 11 47 45	<u>Crete</u> 34.65 N 23.42 E H = 11 43 35.6 h = 43 km MB = 4.9 D = 18.16 Az = 335.3 (NEIS) PV A 1.0s 27.6nm M = 4.4
25.	eP	A 15 52 18.5	<u>Hokkaido, Japan Region</u> 42.73 N 145.42 E H = 15 40 20.0 h = 43 km MB = 5.2 D = 78.66 Az = 332.1 (NEIS) PV A 1.5s 20.1nm M = 4.9
26.	eSn eSg	A 15 10 42 A 11 29	<u>Northern Italy</u> 44.1 N 10.7 E H = 15 07 53 (BCIS) D = 6.60
26.	ePKP2 e	A 24 02 30 A 02 43	<u>Kermadec Islands Region</u> 31.53 S 177.53 W H = 23 41 56.2 h = 50 km MB = 5.2 (NEIS) D = 159.74
27.	eP	A 02 40 52	<u>Hokkaido, Japan Region</u> 44.87 N 145.01 E H = 02 29 23.6 h = 223 km MB = 5.1 D = 76.64 Az = 331.6 (NEIS) PV A 1.3s 17.5nm M = 4.6
27.	ePKP	A 05 10 51	<u>Loyalty Islands Region</u> 21.76 S 170.57 E H = 04 51 18.5 h = 102 km MB = 5.1 D = 146.78 Az = 335.3 (NEIS) PKPV A 1.6s 27.4nm
27.	eP	A 08 56 40	<u>Crete</u> 34.27 N 25.14 E H = 08 52 20.4 h = 70 km MB = 4.4 D = 19.11 Az = 333.0 (NEIS) PV A 0.9s 19.5nm M = 4.4

Day	Phase	h m s	Remarks
28.	e	A 10 15 01.5	<u>North of Ascension Island</u> 0 S 13 W H = 10 05 23 MB = 4.3 (NORSAR) D = 24.6
29.	ePn eSn eSg LmH LmV	A 01 07 04.5 A 08 27 A 09 20 B 09.7 B 10.3	<u>Yugoslavia</u> 44.63 N 18.41 E H = 01 05 15.5 h = normal MB=5.1 MS=4.8 D = 7.57 Az = 325.1 (NEIS) PnV A 1.4s 140.0nm M = 5.7 LmH B 14 17.6/um 4.9 LmV B 11 11.9/um
29.	e(P)	A 03 21 46	<u>Near Coast of Venezuela</u> 10.54 N 63.42 W H = 03 10 17.0 h = normal MB=5.1 MS=5.3 D = 72.43 Az = 40.2 (NEIS)
29.	eP diff ePKIKP ePP e e eSKKS e eiSS eSSS LmH LmV	AB 03 28 44 A 32 39 C 33 32 C 34 30 C 38 50 C 40 12 C 42 15 C 49 00 C 52 25 B 04 17.9 B 21.5	<u>Banda Sea</u> 6.88 S 129.46 E H = 03 14 14.6 h = 117 km MB = 6.5 D = 112.77 Az = 322.4 (NEIS) PPV B 15s 9.0/um M = 6.9 LmH B 22 22.0/um LmV B 18 12.0/um
29.	ePKP	A 09 07 29	<u>Samoa Islands Region</u> 15.97 S 172.62 W H = 08 47 53.7 h = normal MB=4.8 MS=4.8 D = 145.24 Az = 355.3 (NEIS)
29.	ePKHKP eX	A 10 11 03 A 11 17	<u>South of Australia</u> 51.82 S 139.44 E H = 09 51 19.9 h = normal MB=5.0 MS=5.2 D = 147.88 Az = 288.9 (NEIS) XV A 2.6s 190.6nm

Day	Phase	h m s	Remarks
30.	LmH B	11 19.9	<u>Hokkaido Region</u> 44.57 N 143.30 E H = 10 33 51.1 h = 33 km MB = 4.8 (ISC) D = 76.2 LmH B 15.5s 0.8/um M = 5.1 LmV B 14 0.4/um 5.0
	LmV B	26.5	
30.	eP AC	16 20 01	<u>Ryukyu Islands</u> 29.85 N 130.43 E H = 16 07 33.2 h = 33 km MB=5.3 MS=5.8 D = 83.38 Az = 325.8 (NEIS) PV A 1.2s 32.5nm M = 5.3 LmH B 17 13.0/um 6.4 LmV B 17 16.3/um 6.5
	ePP C	23 12	
	eS C	30 30	
	eSS C	36 06	
	LmH B	17 01.2	
	LmV B	01.2	
30.	eP A	18 04 06.5	<u>Bonin Islands Region</u> 26.45 N 140.45 E H = 17 51 48.7 h = 422 km MB = 5.0 D = 90.93 Az = 330.3 (NEIS) PV A 1.2s 12.2nm M = 4.7
	e(PP) A	07 50	
30.	eP A	21 57 58	<u>Celebes Sea</u> 3.48 N 122.22 E H = 21 45 15.2 h = 623 km MB = 5.2 D = 100.21 Az = 322.7 (NEIS)
31.	eP A	04 36 06	<u>Tibet</u> 31.24 N 85.33 E H = 04 26 23.5 h = normal MB = 4.6 D = 56.57 Az = 312.9 (NEIS)
31.	ePKHKP AB	07 06 26	<u>Tonga Islands Region</u> 22.37 S 174.78 W H = 06 46 35.2 h = normal MB=4.9 MS=5.3 D = 151.33 Az = 351.5 (NEIS) PKHKPV A 1.7s 24.2nm LmH B 20 0.6/um M = 5.3 LmV B 18 0.8/um 5.6
	e A	06 30	
	LmH C	08 16.4	
	LmV C	22.7	
31.	eP A	07 18 19	<u>Pyrenees</u> 43.25 N 0.88 W H = 07 15 41.4 h = normal MB = 3.8 D = 11.29 Az = 44.7 (NEIS) LmH B 8.5s 0.4/um M = 2.1 LmV B 9 0.5/um
	e B	22 06	
	LmH B	23.2	
	LmV B	23.2	

Day	Phase	h m s	Remarks
31.	e A	08 36 46	
	e A	38 07.5	
31.	eP A	18 11 39	<u>Fox Islands, Aleutian Is.</u> 52.77 N 167.01 W H = 17 59 48.6 h = 36 km MB = 4.9 D = 76.95 Az = 0.9 (NEIS) PV A 1.3s 19.7nm M = 5.0
31.	ePn A	22 25 21	<u>Yugoslavia</u> 44.64 N 18.35 E H = 22 23 22.7 h = 33 km MB = 4.0 (NEIS) D = 7.53
	eSn A	26 36	
	eSg A	27 32	

Day	Phase	h m s	Remarks
1.	ePKHKP A	03 56 10	<u>Tonga Islands</u> 21.59 S 174.31 W H = 03 36 19.6 h = normal MB=4.7 MS=4.9 D = 150.63 Az = 352.3 (NEIS) PKHKPV A 1.6s 33.0nm
1.	ePg A	08 02 53.5	D c. 175
	eSg A	03 16	PgV A traces
1.	e(P) A	10 42 58.5	
	e(Sg) A	44 51	
1.	eP A	12 55 18	<u>Eastern Gulf of Aden</u> 14.70 N 52.16 E H = 12 46 35.7 h = normal MB = 4.8 D = 48.50 Az = 326.5 (NEIS) PV A 1.6s 16.5nm M = 4.8
2.	eP A	01 13 33	<u>North Atlantic Ridge</u> 10.34 N 40.92 W H = 01 03 36.7 h = 33 km MB = 4.9 (NEIS) D = 58.76 PV A 1.6s 33.0nm M = 5.2
	LmH B	39.8	LmH B 17 0.3/um 4.5
	LmV B	40.0	LmV B 18 0.6/um 4.9
2.	eP A	03 11 14	<u>Near East Coast of Kamchatka</u> 53.94 N 160.36 E H = 02 59 51.2 h = 48 km MB = 4.6 D = 72.53 Az = 339.7 (NEIS) PV A 1.3s 13.1nm M = 4.7
2.	+iP AB	05 05 50	<u>Novaya Zemlya</u> 70.82 N 54.06 E H = 04 59 56.7 h = 0 km MB=6.7 MS=5.3 D = 27.98 Az = 246.3 (NEIS)
	iPn B	06 07	
	ePcP B	08 56	
	eS B	10 35	PV A 1.2s 1972.0nm M = 6.8
	eSn B	11 00	PV B 2.5 3.6/um 6.8
	LmH B	17.7	LmH B 11 23.2/um 6.0
	LmV B	17.7	LmV B 12 22.8/um 6.1
	e A	38 20	
	e(P'P') A	39 26.5	

Day	Phase	h m s	Remarks
2.	eP A	08 39 25	<u>Hokkaido, Japan Region</u> 41.43 N 142.10 E H = 08 27 29.2 h = 67 km MB = 5.1 D = 78.61 Az = 330.4 (NEIS) PV A 1.0s 15.8nm M = 4.9
2.	eP A	12 51 19	<u>Off East Coast of Honshu, Japan</u> 39.55 N 143.42 E H = 12 39 07.6 h = 32 km MB = 4.7 D = 80.74 Az = 331.3 (NEIS)
2.	eP A	19 55 29	<u>Hokkaido, Japan Region</u> 42.99 N 144.43 E H = 19 43 41.7 h = 121 km MB = 4.9 D = 78.09 Az = 331.5 (NEIS) PV A traces
2.	ePP A	22 01 38.5	<u>South of Java</u> 10.10 S 112.64 E H = 21 43 16.8 h = 39 km MB = 5.4 (NEIS) D = 104.73
2.	eP A	22 07 41.5	<u>Near East Coast of Honshu, Japan</u>
	epP A	07 55.5	36.34 N 141.70 E H = 21 55 20.4 h = 44 km MB = 5.1 D = 82.88 Az = 330.6 (NEIS) h = 52 km PV A 1.8s 27.0nm M = 5.0
2.	ePKP AB	22 38 30.5	<u>Tonga Islands</u> 15.18 S 174.05 W H = 22 19 05.2 h = 97 km MB = 5.6 D = 144.33 Az = 353.8 (NEIS)
	ePP A	41 52	
	LmH B	49.9	PKPV A 1.5s 196.0nm
	LmV B	50.0	PPV A 1.9 87.1nm M = 5.7 LmH B 14 0.8/um LmV B 14 1.0/um
2.	eP A	22 57 32.5	<u>Near East Coast of Honshu, Japan</u> 36.43 N 141.88 E H = 22 45 07.9 h = 16 km MB = 4.9 D = 82.87 Az = 330.7 (NEIS)

Day	Phase	h m s	Remarks
3.	+eP e	A 10 35 58 A 36 08.5	<u>Northern Sinkiang Prov., China</u> 43.63 N 81.87 E H = 10 27 31.0 h = normal MB = 5.2 D = 46.65 Az = 304.5 (NEIS) PV A 1.1s 20.2nm M = 5.0
3.	LmH LmV	C 17 28.4 C 29.5	<u>Philippine Islands Region</u> 15.04 N 122.61 E H = 16 29 13.0 h = 71 km MB = 4.7 (ISC) D = 91.3 LmH C 17s 0.3/um LmV C 17 0.4/um
3.	e(PKIKP)	A 18 55 07	<u>Easter Island Cordillera</u> 34.83 S 108.30 W H = 18 35 59.0 h = normal MB = 5.1 D = 134.40 Az = 50.6 (NEIS)
3.	ePn ePg eSn eSg LmH LmV	A 23 00 50 A 01 22 A 01 58 A 02 45 C 18.0 C 18.3	<u>Northern Italy</u> 44.39 N 12.22 E H = 22 59 18.3 h = 22 km D = 6.27 Az = 356.5 (NEIS) LmH C 20s 0.35/um M = 2.9 LmV C 22 0.45/um
4.	ePKHKP ePKP2	A 15 06 52 A 07 03.5	<u>Tonga Islands Region</u> 22.37 S 174.86 W H = 14 47 00.1 h = normal MB=5.0 MS=4.4 D = 151.32 Az = 351.4 (NEIS) PKHKPV A 2.0s 51.2nm
4.	e(PKHKP) e(PKP2) LmV	A 17 49 28 A 49 39.5 C 19 04.5	<u>Hawaiian Islands Region</u> 22.27 S 174.82 W H = 17 29 24.4 h = 33 km MB = 4.9 (NEIS) D = 151.23
5.	ePKP2 e LmH	A 10 59 31 A 11 00 10.5 C 12 10.0	<u>Cook Strait, New Zealand</u> 39.68 S 173.83 E H = 10 38 41.2 h = 33 km MB = 5.3 (NEIS)

Day	Phase	h m s	Remarks
cont. 5.	LmV	C 12 10.5	D = 163.39 LmH C 25s 0.6/um M = 5.2 LmV C 24 0.7/um 5.4
5.	ePKP2	A 19 41 46	<u>West of Macquarie Islands</u> 53.12 S 140.21 E H = 19 21 55.6 h = normal MB = 5.1 (NEIS) D = 148.73
6.	ePn eSn eSg	A 01 00 20 A 00 49 A 01 00	<u>Federal Republic of Germany</u> 49.88 N 8.01 E H = 00 59 37.5 h = 0 km D = 2.44 Az = 70 (ISC)
6.	iPn ePg eSn eSg	A 12 29 02.5 A 29 06.5 A 29 32 A 29 39.5	<u>Federal Republic of Germany</u> 49.83 N 7.88 E H = 12 28 20.1 h = 8 km D = 2.53 Az = 69.8 (NEIS)
7.	eP	A 00 14 13	<u>Kurile Islands</u> 43.98 N 148.49 E H = 00 02 12.6 h = 29 km MB = 4.9 D = 78.57 Az = 333.6 (NEIS) PV A 1.0s 21.7nm M = 5.1
7.	ePn ePg eSg	A 02 35 41.5 A 35 56.5 A 36 55	<u>Poland</u> 50.17 N 18.45 E H = 02 34 32.2 h = 0 km D = 4.39 Az = 279 (ISC)
7.	e(P)	A 04 26 56	<u>Southwest of Sumatra</u> 0.94 S 97.22 E H = 04 13 56.3 h = 11 km MB = 4.9 D = 87.92 Az = 320.6 (NEIS)
7.	eP	A 05 11 04.5	<u>Kurile Islands</u> 43.32 N 156.27 E H = 04 59 07.9 h = 55 km MB = 5.0 D = 78.43 Az = 332.5 (NEIS)

Day	Phase	h m s	Remarks	
7.	eP A	13 30 53	<u>Southern Peru</u> 15.41 S 70.52 W	
	LmH C	14 10.0	H = 13 17 37.3 h = 153 km MB = 5.4	
	LmV C	10.0	D = 96.87 Az = 39.4 (NEIS) PV A 2.0s 29.9nm M = 5.4 LmH C 20 0.4/um LmV C 19 0.45/um	
7.	e(P) A	20 14 16	<u>Komandorsky Islands Region</u> 55.68 N 164.38 E H = 20 02 51.3 h = 42 km MB = 4.7 D = 71.65 Az = 342.1 (NEIS)	
8.	ePKP2 A	01 54 48	<u>West of Macquarie Island</u> 59.25 S 149.60 E H = 01 34 31.0 h = normal D = 154.77 Az = 268.1 (NEIS)	
8.	ePKP A	13 54 12	<u>Tonga Islands</u> 15.57 S 173.22 W	
	e A	54 17	H = 13 34 35.3 h = 12 km MB=5.3 MS=4.9	
	e A	54 23.5	D = 144.80 Az = 354.7 (NEIS)	
	ePP A	57 46.5	PKPV A 1.5s 17.6nm	
	e A	57 50.5	LmH C 20 0.4/um M = 5.1	
	e A	57 57.5	LmV C 20 0.4/um 5.2	
	LmH C	15 01.0		
	LmV C	05.8		
	8.	+eiP AB	21 35 04	<u>Hokkaido, Japan Region</u>
		epP AB	35 36	42.49 N 141.78 E
ePP B		38 04	H = 21 23 21.8 h = 132 km MB = 6.0	
iS B		44 44	D = 77.57 Az = 330.1 (NEIS)	
ePS C		45 43	h = 131 km	
eSS C		49.5	PV A 1.3s 528.0nm M = 6.1	
LmH B		22 08.7	SH B 11.8 6.7/um 6.5	
LmV B		16.2	LmH B 15.5 10.6/um LmV B 13.5 6.8/um	

Day	Phase	h m s	Remarks
9.	ePKP A	01 49 30	<u>Loyalty Islands Region</u> 22.43 S 170.48 E H = 01 29 51 h = 31 km D = 147.36 Az = 335 (ISC) PKPV A 1.1s 18.1nm
9.	eP A	05 57 57	<u>Kurile Islands</u> 48.12 N 152.88 E H = 05 46 24.2 h = 153 km MB = 4.8 D = 76.14 Az = 335.8 (NEIS) PV A 1.2s 24.4nm M = 4.8
9.	eP A	06 03 52.5	<u>Greece-Albania Border Region</u> 38.96 N 20.26 E H = 06 00 44.9 h = 23 km MB = 4.8 D = 13.19 Az = 335.2 (NEIS)
9.	eP C	10 42 05	<u>Near North Coast of Colombia</u>
	eS B	52 00	11.5 N 75.2 W
	eSS B	56 56	H = 10 29 59.4 h = 0 km MB = 4.6
	LmH B	11 13.7	D = 79.19 Az = 40 (ISC)
	LmV B	13.7	PV C 9s 0.6/um M = 5.6 LmH B 19.5 11.3/um 6.2 LmV B 21 12.7/um 6.3
9.	eP A	10 47 32	<u>Near East Coast of Kamchatka</u> 53.29 N 160.29 E H = 10 36 03.6 h = normal MB=4.7 MS=5.3 D = 73.13 Az = 339.8 (NEIS)
9.	eP A	12 18 38	<u>Algeria</u> 36.38 N 5.30 E H = 12 15 07.0 h = normal MB = 4.1 D = 14.97 Az = 15.7 (NEIS)
9.	eP AB	13 13 34	<u>Near Coast of Peru</u> 12.50 S 77.79 W
	ePP AB	17 33	H = 12 59 49.8 h = 6 km MB=6.0 MS=7.2
	eSKS B	24 14	D = 99.17 Az = 40.2 (NEIS)
	eS B	25 04	PV A 1.8s 81.0nm M = 6.1
	ePS B	26 40	PV B 14 7.0/um 7.2
	eSS B	31 40	PPV A 4.5 1397.0nm 6.7



Day	Phase	h m s	Remarks
cont. 9.	LmV B LmH B	13 55.3 56.2	PPV B 16s 12.2/um M = 8.0 LmH B 19.8 90.0/um 7.3 LmV B 17 93.6/um 7.4
9.	eP A	14 28 47	<u>Off East Coast of Honshu, Japan</u> 40.02 N 143.35 E H = 14 16 36.8 h = 27 km MB = 5.4 D = 80.31 Az = 331.2 (NEIS) PV A 1.6s 60.5nm M = 5.4
9.	eP AB ePP AB eSKS B eS B eSS C LmH B LmV B	19 24 26 28 21 35 10 35 44 42 32 20 16.5 16.5	<u>Sunda Strait</u> 6.50 S 105.34 E H = 19 10 55.2 h = 51 km MB = 6.1 D = 97.34 Az = 320.2 (NEIS) PV A 2.0s 85.5nm M = 5.9 PPV A 1.9 303.0nm 6.4 LmH B 17 4.9/um 6.1 LmV B 17 3.9/um 6.0
9.	e(Sg) A	20 21 09.5	
9.	ePKP A	23 07 46	<u>Fiji Islands Region</u> 17.56 S 178.49 W H = 22 49 10.5 h = 590 km MB = 4.8 D = 146.01 Az = 348.5 (NEIS) PKPV A 1.4s 14.0nm
10.	ePKP AB LmH B LmV B	04 45 09 05 47.8 53.6	<u>Fiji Islands Region</u> 15.86 S 178.51 W H = 04 25 31.9 h = 33 km MB=5.8 MS=6.1 D = 144.35 Az = 348.9 (NEIS) PKPV A 1.6s 44.0nm LmH B 19 3.7/um M = 6.1 LmV B 22 3.0/um 6.0
11.	ePn A ePg A eSg A	00 41 51 42 00 42 36	<u>Fed. Republic of Germany</u> 48.2 N 8.7 E H = 00 41 09 h = 0 km D = 3.05 Az = 37 (ISC)

Day	Phase	h m s	Remarks
11.	ePKP A	04 30 55	<u>Fiji Islands Region</u> 17.87 S 178.47 W H = 04 12 18.7 h = 593 km MB = 5.2 D = 146.32 Az = 348.4 (NEIS) PKPV A 1.6s 27.5nm 51.63 N
11.	eP A eS C eSS C LmV C LmH C	05 29 41.5 39 47 44 56 59.0 06 00.0	<u>Andreanof Islands, Aleutian Is.</u> 178.11 W H = 05 17 51.0 h = 68 km MB = 5.8 D = 77.77 Az = 353.7 (NEIS) PV A 1.5s 70.4nm M = 5.4 LmH C 25 1.3/um 5.1 LmV C 26 1.6/um 5.3
11.	ePKIKP A -eiPKHKP A +iPKP2 A	06 48 47 48 55 49 06	<u>South of Fiji Islands</u> 23.91 S 177.56 W H = 06 29 21.1 h = 196 km MB = 5.6 D = 152.37 Az = 347.4 (NEIS) PKIKPV A 1.4s 34.9nm PKHKPV A 1.3 76.4nm PKP2V A 1.4 121.0nm
11.	LmH C LmV C	21 07.6 17.6	<u>Santa Cruz Islands</u> 10.64 S 166.38 E H = 19 53 15 h = 51 km MB = 4.6 (ISC) D = 135.0 LmH C 24s 0.45/um M = 5.1 LmV C 18 0.45/um 5.2
12.	LmH C LmV C	01 52.8 57.8	<u>Off Coast of Peru</u> 10.75 S 79.11 W H = 00 53 55 h = 45 km MB = 4.9 (ISC) D = 98.7 LmH C 18s 0.4/um M = 5.0 LmV C 16 0.7/um 5.3
12.	ePn A iPg A iSg A	02 59 39 59 52.5 00 46	<u>France</u> 48.34 N 6.77 E H = 02 58 40.1 h = 36 km D = 3.91 Az = 52.0 (NEIS)
12.	eP A LmH C LmV C	03 28 28 04 06.0 06.0	<u>Kurile Islands</u> 45.46 N 150.91 E H = 03 16 31.7 h = normal MB=4.8 MS=4.3 D = 77.99 Az = 334.9 (NEIS) PV A 1.4s 23.3nm M = 5.0 LmH C 18 0.45/um 4.8 LmV C 19 0.6/um 5.0

Day	Phase	h m s	Remarks
12.	ePKP A	03 50 03.5	<u>New Hebrides Islands</u> 20.14 S 169.26 E H = 03 30 32.5 h = 46 km MB = 4.8 D = 144.80 Az = 335.2 (NEIS) PV A 1.2s 20.3nm
12.	eP A	22 27 09	<u>Celebes Sea</u> 2.32 N 121.13 E
	epP A	27 27	H = 22 13 25.8 h = 54 km MB = 5.8
	ePP A	31 28	D = 100.46 Az = 322.4 (NEIS)
	e A	31 40	h = 65 km
	ePKKP A	43 43.5	PV A 1.6s 35.8nm M = 5.7
	LmH B	23 19.0	PKKPV A 1.4 16.3nm
	LmV B	20.6	LmH B 19 1.2/um LmV B 18 1.1/um
13.	eP A	02 41 46.5	<u>Eastern Caucasus</u> 42.72 N 46.56 E
	LmV C	51.9	H = 02 36 25.5 h = 42 km MB=5.1 MS=4.7
	LmH B	52.5	D = 25.06 Az = 300.6 (NEIS) PV A 1.4s 79.0nm M = 5.1 LmH B 14 2.0/um 4.8 LmV C 18 1.0/um 4.5
13.	ePKP2 A	05 43 30.5	<u>South of Fiji Islands</u> 25.77 S 176.31 W H = 05 23 16.7 h = normal MB=4.9 MS=4.4 D = 154.43 Az = 348.3 (NEIS)
13.	ePKHKP A	17 19 15	<u>West of Macquarie Island</u>
	ePKP2 A	19 28.5	57.96 S 148.28 E
	LmH B	18 37.0	H = 16 59 16.6 h = normal MB=5.3 MS=5.9
	LmV B	42.3	D = 154.07 Az = 272.5 (NEIS) PKHKPV A 1.6s 27.5nm LmH B 19 1.2/um M = 5.6 LmV B 22 1.8/um 5.8
14.	eP1 A	05 00 05	<u>Alaska Peninsula</u> 58.80 N 154.62 W
	eP2 A	00 22	H = 04 48 54.7 h = 37 km MB=5.5 MS=5.6
	eP3 A	00 46	D = 70.34 Az = 9.3 (NEIS)
	LmH B	35.6	P1V A 1.2s 16.3nm M = 4.9

Day	Phase	h m s	Remarks
cont. 14.	LmV B	05 35.6	P2V A 1.4s 41.9nm M = 5.3 P3V A 1.7 66.7nm 5.4 LmH B 17 1.7/um 5.4 LmV B 18 2.0/um 5.5
14.	eP A	13 26 02	<u>Greece</u> 38.52 N 23.12 E
	eS B	29 04	H = 13 22 33.1 h = 19 km MB=5.0 MS=5.0
	LmH B	31.0	D = 14.61 Az = 329.8 (NEIS)
	LmV B	33.2	PV A 1.5s 45.2nm M = 4.8 LmH B 12 17.0/um 5.3 LmV B 12 10.8/um
14.	eP A	14 30 15	<u>Greece</u> 38.53 N 22.99 E
	eS C	33.3	H = 14 26 45.8 h = 3 km MB = 5.2
	LmH B	35.3	D = 14.55 Az = 330.0 (NEIS)
	LmV B	37.4	LmH B 13s 11.2/um M = 5.2 LmV B 14 5.3/um
14.	eP A	15 33 13	<u>Greece</u> 38.49 N 23.09 E
	LmH B	38.2	H = 15 29 44.8 h = 24 km MB=5.0 MS=5.1
	LmV B	40.5	D = 14.63 Az = 329.9 (NEIS) PV A 1.4s 18.6nm M = 4.4 LmH B 12.5 7.8/um 5.0 LmV B 13 4.4/um
14.	ePn A	17 10 10	<u>Swabian Jura Region, Fed. Rep. of Germany</u>
	ePg A	10 17	48.31 N 9.12 E
	eSg A	10 55	H = 17 09 24.3 h = 15 km D = 2.85 Az = 34.0 (NEIS)
15.	eP A	00 26 45	<u>Eastern Gulf of Aden</u> 13.49 N 50.21 E
			H = 00 18 02.5 h = normal MB = 4.5 D = 48.49 Az = 328.0 (NEIS) PV A traces
15.	LmH C	16 15.2	
	LmV C	15.3	

November 1974

Moxa

Day	Phase	h m s	Remarks
15.	eP e	A A 17 45 48 46 14	<u>Southern Iran</u> 27.63 N 62.45 E H = 17 37 45.8 h = 75 km MB = 4.7 D = 44.57 Az = 315.3 (NEIS) PV A traces
15.	eP	A 22 40 01	<u>Southern Sinkiang Prov., China</u> 37.40 N 76.91 E H = 22 31 29.2 h = 34 km MB = 5.0 D = 47.29 Az = 308.1 (NEIS)
15.	+iP ePP eS eSS LmH LmV	AB A B C B B 23 45 05.5 48 12 55 20 24 00 52 26.9 27.3	<u>Near East Coast of Honshu, Japan</u> 35.77 N 140.99 E H = 23 32 42.1 h = 36 km MB=5.8 MS=5.6 D = 83.09 Az = 330.3 (NEIS) PV A 1.0s 157.0nm M = 6.1 PPV A 1.3 54.6nm 5.8 LmH B 16 3.4/um 5.8 LmV B 14 3.1/um 5.9
16.	eP e ePP LmH LmV	A A AB B B 10 51 18 54 40 55 32 11 34.2 44.1	<u>Molucca Passage</u> 2.43 N 127.71 E H = 10 37 08.0 h = 36 km MB=5.6 MS=5.4 D = 104.31 Az = 323.8 (NEIS) PV A 1.2s 24.4nm M = 5.9 PPV A 1.5 40.2nm 5.8 LmH B 23 1.4/um 5.5 LmV B 18 0.6/um 5.2
16.	eP	A 16 27 24	<u>Kashmir-India Border Region</u> 32.85 N 76.14 E H = 16 18 36.6 h = 63 km MB = 4.8 D = 49.70 Az = 311.1 (NEIS)
16.	eP1 eP2 LmH LmV	A A B B 16 36 43 36 48.5 17 02.6 07.4	<u>Kansu Province, China</u> 33.05 N 103.98 E H = 16 25 53.8 h = normal MB=5.1 MS=5.2 D = 66.64 Az = 316.1 (NEIS) P2V A 1.8s 40.6nm M = 5.2 LmH B 17 2.0/um 5.4 LmV B 15 1.3/um 5.3

November 1974

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Day	Phase	h m s	Remarks
16.	eP eS LmH LmV	A C B B 19 29 54 34 30 40.1 40.7	<u>North Atlantic Ocean</u> 52.65 N 32.12 W H = 19 24 14.5 h = normal MB=5.0 MS=4.9 D = 26.90 Az = 76.6 (NEIS) PV A 1.0s 23.6nm M = 4.8 LmH B 15 4.0/um 5.1 LmV B 14 3.2/um 5.2
16.	eP	A 22 18 05	<u>Burma</u> 24.88 N 95.42 E H = 22 07 25.1 h = 159 km MB = 4.7 D = 67.36 Az = 316.7 (NEIS)
17.	eP	A 00 17 30	<u>Panama-Colombia Border Region</u> 7.74 N 77.60 W H = 00 05 00.4 h = 21 km MB=5.0 MS=4.3 D = 83.58 Az = 39.8 (NEIS)
17.	+eiPKP epPKP	A A 01 19 55 20 45	<u>Tonga Islands</u> 16.99 S 174.26 W H = 01 00 36.5 h = 192 km MB = 5.0 D = 146.09 Az = 353.3 (NEIS) h = 193 km PKPV A 1.7s 103.0nm
17.	eP	A 07 45 29	<u>North Atlantic Ocean</u> 52.72 N 32.00 W H = 07 39 50.9 h = normal MB = 4.5 D = 26.82 Az = 76.8 (NEIS)
17.	eP LmH	A C 15 12 49 31.2	<u>Iran</u> 32.81 N 55.07 E H = 15 05 47.7 h = 43 km MB = 5.2 D = 36.39 Az = 312.4 (NEIS) LmH C 24s 0.5/um M = 4.2
17.	e	A 15 40 12	<u>Off Coast of Oregon</u> 43.50 N 127.04 W H = 15 27 59.4 h = 12 km MB = 5.1 D = 79.57 Az = 25.3 (NEIS)
17.	+iP	AB 17 35 40	<u>Near East Coast of Kamchatka</u> 54.81 N 161.54 E H = 17 24 17.9 h = 31 km MB = 5.3 D = 71.95 Az = 340.4 (NEIS) PV A 0.9s 85.6nm M = 5.8

Day	Phase	h m s	Remarks
18.	eP	A 07 27 23	<u>Near East Coast of Kamchatka</u> 55.31 N 161.87 E H = 07 16 04.0 h = normal MB = 4.6 D = 71.54 Az = 340.5 (NEIS)
18.	eP	A 18 15 41	<u>Philippine Islands Region</u> 20.57 N 121.19 E H = 18 03 03.3 h = 36 km MB = 5.5 D = 86.02 Az = 323.0 (NEIS) PV A 1.6s 49.5nm M = 5.5 LmH B 18 1.1/um 5.3 LmV B 16 0.9/um 5.3
19.	+eP	AB 04 08 02	<u>Philippine Islands Region</u> 18.97 N 121.31 E H = 03 55 18.9 h = 44 km MB = 5.7 MS = 5.7 D = 87.36 Az = 323.1 (NEIS) PV A 2.4s 165.8nm M = 5.8 LmH B 18 2.9/um 5.7 LmV B 19 4.6/um 5.9
19.	ePP	AC 05 18 53	<u>New Ireland Region</u> 3.19 S 150.64 E H = 04 58 23.0 h = 18 km MB = 5.5 (NEIS) D = 121.5 PPV A 2.6s 139.0nm M = 6.1 LmH B 20 6.6/um 6.3 LmV B 20 6.2/um 6.3
19.	ePKIKP	A 05 59 00	<u>Fiji Islands Region</u> 17.95 S 178.69 W H = 05 40 29.6 h = 639 km MB = 5.1 D = 146.35 Az = 348.1 (NEIS) PKHKPV A 1.2s 24.4nm
19.	ePKHKP	A 59 02.5	
19.	ePKIKP	A 07 09 54	<u>New Hebrides Islands</u> 16.07 S 167.46 E H = 06 50 29.0 h = 42 km MB = 5.2 D = 140.41 Az = 335.9 (NEIS) PKIKPV A 1.4s 18.6nm

Day	Phase	h m s	Remarks
20.	eP	A 00 20 58	<u>Fox Islands, Aleutian Is.</u> 53.60 N 165.25 W H = 00 09 15.0 h = 57 km MB = 5.0 D = 76.10 Az = 2.1 (NEIS) h = 50 km
20.	epP	A 21 11.5	
20.	eP	A 00 51 44.5	<u>Northeast of Taiwan</u> 25.13 N 123.47 E H = 00 39 33.5 h = 173 km MB = 4.9 D = 83.63 Az = 323.5 (NEIS)
20.	ePKIKP	AB 04 34 04	<u>New Hebrides Islands</u> 15.02 S 167.14 E H = 04 14 46.9 h = normal MB = 6.4 MS = 6.9 D = 139.33 Az = 336.1 (NEIS)
	ePKIKPm	AB 34 34	
	eSS	B 55 50	PKIKPV A 2.0s 598.3nm
	e	B 57 45	PKIKPV B 13 8.1/um
	LmH	B 05 37.8	LmH B 23 45.2/um M = 7.1
	LmV	B 44.2	LmV B 19 29.8/um 7.0
20.	ePn	A 08 43 05.5	<u>Austria</u> 46.99 N 11.31 E H = 08 42 07.4 h = normal D = 3.66 Az = 3.0 (NEIS)
	ePg	A 43 25.5	
	eSn	A 43 56.5	
	eSg	A 44 24.5	
20.	ePP	A 13 40 44	<u>Southwestern Atlantic Ocean</u> 53.57 S 28.35 W H = 13 21 41.2 h = 33 km MB = 6.0 (NEIS) D = 109.14 PPV A 1.6s 22.0nm M = 5.6 LmH B 19 1.0/um 5.4 LmV B 18 0.6/um 5.2
	LmH	B 14 14.7	
	LmV	B 24.6	
20.	ePn	A 15 12 06.5	<u>Northern Italy</u> 45.77 N 12.26 E H = 15 10 54.9 h = normal D = 4.90 Az = 355.2 (NEIS)
	ePg	A 12 22	
	eSn	A 13 00	
	eiSg	A 13 29.5	

Day	Phase	h m s	Remarks
20.	ePn A	15 12 06.5	<u>Northern Italy</u> 45.77 N 12.26 E
	ePg A	12 22	H = 15 10 54.9 h = normal
	eSn A	13 00	D = 4.90 Az = 355.2 (NEIS)
	eiSg A	13 29.5	
20.	ePn A	19 34 15	<u>Northern Italy</u> 45.77 N 12.19 E
	ePg A	34 36	H = 19 33 02.4 h = 25 km
	eSn A	35 08	D = 4.90 Az = 355.7 (NEIS)
	eSg A	35 37	
21.	LmH C	08 42.9	<u>Solomon Islands</u> 7.99 S 155.67 E
	LmV C	51.2	H = 07 32 48 h = 19 km MB = 5.1 (ISC) D = 128.2 LmH C 24s 0.5/um M = 5.1 LmV C 24 0.4/um 5.0
21.	ePKP A	13 10 00	<u>Tonga Islands</u> 16.75 S 174.37 W
	epPKP A	10 50	H = 12 50 38.2 h = 160 km MB = 4.7 D = 145.85 Az = 353.2 (NEIS) h = 190 km PKPV A 1.4s 18.6nm
21.	eP A	19 56 20.5	<u>Burma</u> 20.07 N 95.18 E
	e A	56 41.5	H = 19 45 05.6 h = normal MB = 5.1 D = 70.72 Az = 317.9 (NEIS)
21.	eP A	21 48 56.5	<u>North Atlantic Ridge</u> 52.27 N 31.61 W
	LmH B	58.9	H = 21 43 19.6 h = normal MB = 4.7
	LmV B	59.6	D = 26.69 Az = 76.1 (NEIS) LmH B 15s 0.6/um M = 4.3 LmV B 14 0.7/um 4.5
21.	e A	22 07 43.5	
22.	eSg A	10 31 45	
22.	ePn A	17 04 29.5	<u>Northern Italy</u> 46.00 N 12.16 E
	ePg A	04 48.5	H = 17 03 18.6 h = 0 km

Day	Phase	h m s	Remarks
cont. 22.	eSn A	17 05 22	D = 4.66 Az = 356 (ISC)
	eSg A	05 47.5	
23.	ePKIKP A	00 55 32.5	<u>South of Fiji Islands</u> 22.79 S 177.54 W
	-iPKHKP AB	55 38.5	H = 00 36 08.9 h = 211 km MB = 5.4
	-iPKP2 AB	55 4?	D = 151.29 Az = 347.8 (NEIS) PKIKPV A 1.2s 16.3nm PKHKPV A 1.0 126.0nm PKP2V A 1.2 89.4nm
23.	eP A	03 38 37	<u>Iran-USSR Border Region</u> 38.2 N 55.3 E H = 03 31 58 h = 0 km MB = 4.1 D = 33.12 Az = 306 (ISC)
23.	ePn A	07 55 28	<u>Southern Italy</u> 39.93 N 18.91 E
	ePg A	56 26	H = 07 52 28.9 h = normal MB = 4.4
	eSn A	57 31	D = 11.88 Az = 336.9 (NEIS)
23.	eP A	09 56 38	<u>Southwestern Ryukyu Islands</u>
	e A	56 48.5	23.49 N 123.75 E
	LmH B	10 39.7	H = 09 44 03.8 h = normal MB = 5.4 MS=5.1
	LmV B	39.3	D = 85.10 Az = 323.7 (NEIS) PV A 1.6s 55.0nm M = 5.5 LmH B 18.5 0.8/um 5.2 LmV B 20 1.0/um 5.2
23.	eP A	18 49 26.5	<u>Greece - Albania Border Region</u>
	e A	50 05	39.71 N 19.08 E
	eS C	52 30	H = 18 46 33.4 h = normal MB = 4.7
	LmH B	53.6	D = 12.13 Az = 336.8 (NEIS)
	LmV B	54.4	LmH B 15s 1.7/um M = 4.2
24.	LmH C	07 50.5	<u>South of Panama</u> 5.58 N 82.61 W
	LmV C	50.5	H = 07 05 37.2 h = 36 km MB=5.0 MS=4.9 D = 88.41 Az = 39.4 (NEIS) LmH C 25s 0.9/um M = 5.1

Day	Phase	h m s	Remarks
25.	eP	A 16 44 31	<u>Eastern Gulf of Aden</u> 13.48 N 51.51 E H = 16 35 44.5 h = normal MB = 5.0 D = 49.17 Az = 327.3 (NEIS) PV A 1.6s 30.2nm M = 5.1
26.	esPKP	A 23 23 11.5	<u>South of Fiji Islands</u> 24.14 S 179.88 E H = 23 02 07.4 h = 516 km MB = 5.0 D = 152.01 Az = 344.0 (NEIS) sPKPV A 1.2s 12.2nm
27.	eP	A 07 45 35	<u>Iran - Iraq Border Region</u> 33.21 N 46.90 E H = 07 39 15.8 h = 31 km MB = 4.9 D = 31.13 Az = 314.6 (NEIS)
27.	ePn ePg eSn eSg	A 12 57 04.5 A 57 18.5 A 57 47.5 A 58 04.5	<u>Austria</u> 47.05 N 10.45 E H = 12 56 09.6 h = normal D = 3.69 Az = 11.7 (NEIS)
27.	eP LmH LmV	A 16 58 50 B 17 12.6 B 13.6	<u>Iran - Iraq Border Region</u> 35.30 N 45.66 E H = 16 52 49.9 h = 50 km MB = 5.0 D = 28.94 Az = 312.6 (NEIS) LmH B 16s 1.1/um M = 4.6 LmV B 15 1.0/um 4.7
27.	eP	A 20 46 14.5	<u>East of Severnaya Zemlya</u> 79.25 N 123.99 E H = 20 38 03.4 h = normal MB = 4.4 D = 44.61 Az = 303.0 (NEIS)
28.	eP	A 01 59 43.5	<u>Montana</u> 47.69 N 113.01 W H = 01 48 23.8 h = 5 km D = 71.09 Az = 33.6 (NEIS)
28.	ePKP	A 05 27 33	<u>Fiji Islands Region</u> 17.88 S 178.69 W H = 05 08 51.4 h = 535 km MB = 4.6 D = 146.29 Az = 348.2 (NEIS)

264

Day	Phase	h m s	Remarks
28.	eP	A 05 40 40	<u>Andreanof Islands, Aleutian Is.</u> 51.87 N 175.27 W H = 05 28 48.3 h = 63 km MB = 5.2 D = 77.69 Az = 355.5 (NEIS) PV A 1.2s 14.2nm M = 4.8
28.	eP	A 13 40 16.5	<u>Azores Islands Region</u> 37.56 N 31.99 W H = 13 33 38.8 h = normal MB=4.8 MS=4.8 D = 33.44 Az = 52.8 (NEIS)
28.	ePKHKP ePKP2	A 15 33 56.5 A 34 03.5	<u>Fiji Islands Region</u> 21.21 S 179.03 W H = 15 15 15.4 h 3 625 km MB = 4.8 D = 149.45 Az = 346.6 (NEIS) PKHKPV A 1.8s 47.3nm PKP2V A 1.0 15.7nm
28.	+eiP	A 16 43 44.5	<u>Unimak Island Region</u> 53.62 N 163.70 W H = 16 31 58.3 h = 32 km MB = 5.3 D = 76.03 Az = 3.1 (NEIS) PV A 1.2s 52.8nm M = 5.4
28.	LmH	B 23 49.1	<u>Central California</u> 36.91 N 121.50 W H = 23 01 24.8 h = 9 km MB=5.0 MS=4.5 D = 83.55 Az = 27.9 (NEIS) LmH B 18s 1.0/um M = 5.2
29.	eP e	A 00 54 18.5 A 54 27.5	<u>Central Mid-Atlantic Ridge</u> 3.62 N 31.86 W H = 00 44 18.4 h = normal MB = 4.7 D = 59.38 Az = 30.6 (NEIS) PV A 1.7s 24.2nm M = 5.1
29.	+ePKP epPKP	A 10 08 34 A 09 11	<u>New Hebrides Islands</u> 19.56 S 169.36 E H = 09 49 15.4 h = 142 km MB = 5.5 D = 144.32 Az = 335.6 (NEIS) h = 140 km PKPV A 1.3s 61.1nm pPKPV A 1.6 30.2nm

265

Day	Phase	h m s	Remarks
29.	eP	A 21 14 36	<u>USSR-Mongolia Border Region</u> 51.75 N 98.94 E H = 21 05 31.6 h = normal MB = 5.2 D = 51.50 Az = 305.6 (NEIS) PV A 1.4s 34.9nm M = 5.1
29.	-iP	AB 22 17 19	<u>South of Honshu, Japan</u> 30.70 N 138.32 E H = 22 05 22.4 h = 419 km MB = 6.1 D = 86.33 Az = 329.2 (NEIS)
	ipP	AB 18 59	
	esP	B 19 36	h = 432 km
	ePP	B 20 50	PV A 1.5s 482.4nm M = 6.0
	eS	B 27 12	PV B 8 7.4/um 6.5
	esS	B 30 04	LmH B 15 38.0/um
	eSS	B 33 12	LmV B 15 41.6/um
	eP'P	A 43 23	
	LmH	B 23 02.5	
	LmV	B 02.7	
30.	eP	A 13 09 03.5	<u>Near Islands, Aleutian Is.</u> 53.27 N 172.96 E H = 12 57 20.6 h = 17 km MB=5.2 MS=4.9 D = 75.28 Az = 347.8 (NEIS)
30.	LmV	B 15 15.6	Probably <u>East of North Island, New Zealand</u> 35.42 S 179.4 W H = 13 55 01 h = 33 km MB = 5.0 (NEIS) D = 163.0 LmH B 16s 0.7/um M = 5.5 LmV B 16 1.1/um 5.8
	LmH	B 15.7	

Day	Phase	h m s	Remarks
1.	ePn	A 01 23 26	<u>Central Italy</u> 42.80 N 12.99 E H = 01 21 29.5 h = 11 km D = 7.90 Az = 354 (ISC)
	e	A 24 51	
	e	A 25 01	
1.	ePKIKP	A 02 11 58.5	<u>Fiji Region</u> 19.63 S 178.15 W H = 01 53 17.2 h = 580 km MB = 4.3 D = 148.09 Az = 348 (ISC)
1.	eP	A 06 24 45	<u>Greece</u> 38.51 N 23.24 E H = 06 21 18.1 h = normal MB = 4.2 D = 14.67 Az = 329.6 (NEIS) PV A traces LmH B 13s 0.9/um M = 4.1
	e	A 24 52.5	
	LmH	B 29.7	
1.	eP	A 12 13 04	<u>Turkey</u> 39.52 N 26.20 E H = 12 09 28.8 h = 36 km MB = 4.5 D = 15.13 Az = 322.1 (NEIS) PV A 2.6s 104.0nm M = 5.1 LmH B 13 0.9/um 4.1 LmV B 12 1.5/um 4.5
	LmH	B 19.7	
	LmV	B 19.7	
1.	eP	A 13 22 26.5	<u>Mindanao, Philippine Islands</u> 5.99 N 123.83 E H = 13 09 40.1 h = 521 km MB = 5.1 D = 99.18 Az = 323.3 (NEIS)
1.	ePKP2	A 21 58 35.5	<u>South of Fiji</u> 23.76 S 179.76 E H = 21 39 31 h = 547 km D = 151.63 Az = 344 (ISC)
1.	ePKP	A 22 45 49	<u>Tonga Islands</u> 16.22 S 173.36 W H = 22 26 12.5 h = normal MB = 4.5 D = 145.43 Az = 354.4 (NEIS)
2.	ePKP2	A 00 38 39	<u>East of North Island, New Zealand</u> 35.22 S 179.65 W H = 00 18 02.7 h = 120 km MB = 5.1 (NEIS) D = 162.55

Day	Phase	h m s	Remarks
2.	ePn A	01 16 29	<u>Central Italy</u> 42.78 N 13.10 E
	eSn A	17 54.5	H = 01 14 33.8 h = normal
	eSg A	18 55	D = 7.93 Az = 353.1 (NEIS)
2.	ePn A	01 57 11	<u>Central Italy</u> 42.99 N 12.97 E
	eSn A	58 40	H = 01 55 15.9 h = 7 km MB = 4.9
	eSg A	59 37	D = 7.72 Az = 353.6 (NEIS)
	LmH B	02 00.9	PnV A 1.2s 24.4nm M = 5.3
	LmV B	01.2	LmH B 14 1.6/um 3.8 LmV B 12 2.1/um
2.	ePKIKP A	02 10 39.5	<u>Santa Cruz Islands</u> 11.01 S 166.36 E H = 01 51 37.0 h = 153 km MB = 5.2 D = 135.37 Az = 337.3 (NEIS)
2.	eP A	06 46 49	<u>Philippine Islands Region</u>
	e A	46 57	19.08 N 121.16 E
	eS C	57 20	H = 06 34 07.7 h = 53 km MB = 5.5
	ePS C	58 08	D = 87.18 Az = 323.1 (NEIS)
	LmH B	07 29.5	PV A 1.5s 35.2nm M = 5.4
LmV B	29.5	LmH B 17 1.9/um LmV B 16 2.2/um	
2.	ePKIKP A	07 02 30	<u>New Britain Region</u> 6.17 S 153.07 E
	ePP A	04 21	H = 06 43 30.4 h = 28 km MB = 5.8 D = 125.27 Az = 330.9 (NEIS) PKIKPV A 1.6s 66.0nm PPV A 1.6 99.0nm, M = 6.0
2.	+eP A	09 13 18.5	<u>Southern Iran</u> 27.99 N 55.82 E
	LmH B	30.4	H = 09 05 44.2 h = 36 km MB = 5.4
	LmV B	36.4	D = 40.21 Az = 316.6 (NEIS) PV A 1.4s 32.6nm M = 4.9 LmH B 20 1.8/um 4.9 LmV B 14 1.0/um 4.9
2.	ePKHKP A	12 41 00	<u>Fiji Islands Region</u> 20.43 S 178.14 W H = 12 22 15.7 h = 587 km MB = 4.8 D = 148.87 Az = 348.0 (NEIS)

Day	Phase	h m s	Remarks
2.	eP A	12 49 19	<u>Guatemala</u> 14.63 N 91.51 W
	epP A	49 45	H = 12 36 44.5 h = 97 km MB = 5.2
	eSKS C	59 40	D = 86.93 Az = 38.4 (NEIS)
	ePS C	13 01 04	h = 98 km
	LmH C	18.5	PV A 1.3s 30.6nm M = 5.2
LmV C	18.5	LmV C 20 1.3/um	
2.	ePn A	21 02 07.5	<u>Central Italy</u> 42.80 N 13.04 E
	eSn A	03 40	H = 21 00 11.3 h = 15 km D = 7.91 Az = 353 (ISC)
2.	eP A	23 05 44	<u>Greece</u> 38.48 N 22.19 E
	LmH B	11.7	H = 23 02 16.4 h = 16 km MB = 4.7
	LmV B	11.7	D = 14.29 Az = 331.8 (NEIS) LmH B 14s 1.1/um M = 4.1 LmV B 10 1.2/um
3.	ePKP A	03 25 09	<u>Banda Sea</u> 5.01 S 129.78 E
	ePP A	26 02	H = 03 06 35.2 h = normal MB=6.2 MS=6.5
	LmH B	04 24.1	D = 111.49 Az = 322.9 (NEIS) LmV B 24.1 PPV A 1.6s 76.9nm M = 5.2 LmH B 18 9.9/um 6.4 LmV B 18 8.9/um 6.4
3.	ePn A	19 10 20	<u>Central Italy</u> 42.78 N 13.04 E
	eSn A	11 45	H = 19 08 12.7 h = 5 km D = 7.93 Az = 353 (ISC)
3.	eP A	19 30 37.5	<u>Kurile Islands</u> 48.08 N 153.75 E H = 19 18 50.2 h = 36 km MB = 5.0 D = 76.41 Az = 336.3 (NEIS) PV A 1.0s 11.8nm M = 4.8
4.	e A	01 44 00	
4.	eP A	02 46 18	<u>Ascension Island Region</u> 7.74 S 13.52 W
	e A	46 23	H = 02 35 58.9 h = normal MB = 4.9 D = 63.00 Az = 17.8 (NEIS) PV A 1.5s 32.7nm M = 5.2



Day	Phase	h m s	Remarks
4.	eP1 AB	03 20 33	<u>Northern Sumatra</u> 0.39 N 97.84 E
	eP2 AB	20 37	H = 03 07 46.3 h = 20 km MB=6.0 MS=6.9
	eS B	31 08	D = 87.30 Az = 320.5 (NEIS)
	eSS C	37 00	P1V A 1.6s 38.5nm M = 5.4
	LQ C	46 20	P2V A 2.4 415.0nm 6.3 P2V B 11 3.1,um 6.5 LmH B 19 21.4,um 6.6 LmV B 18 17.6,um 6.5
4.	ePKHKP A	05 30 02.5	<u>Fiji Islands Region</u> 18.34 S 177.06 W
			H = 05 11 02.4 h = 375 km MB = 4.7 D = 147.03 Az = 349.8 (NEIS) PKHKPV A 1.8s 30.4nm
4.	eP A	10 12 12	<u>Kurile Islands</u> 44.35 N 147.63 E H = 10 00 13.7 h = normal MB = 4.8 D = 77.97 Az = 333.1 (NEIS)
4.	ePn A	16 16 51	<u>Central Italy</u> 42.65 N 13.09 E
	eSn A	18 29	H = 16 14 46.9 h = normal MB = 4.0 D = 8.06 Az = 353.3 (NEIS)
4.	eSn A	18 03 24	<u>Central Italy</u> 42.72 N 12.85 E H = 17 59 45.1 h = 5 km D = 7.97 Az = 354 (ISC)
4.	eP A	20 26 14	<u>Fox Islands, Aleutian Isl.</u>
			51.90 N 170.86 W H = 20 14 19.4 h = 39 km MB = 4.5 D = 77.81 Az = 358.4 (NEIS)
5.	eP A	00 24 41	<u>Ryukyu Islands</u> 26.71 N 128.82 E
	e A	25 07	H = 00 11 59.6 h = 20 km MB = 4.8
	LmH B	01 07.4	D = 85.16 Az = 325.4 (NEIS)
	LmV B	07.9	LmH B 16s 1.1,um M = 5.4 LmV B 13 1.2,um 5.5

Day	Phase	h m s	Remarks	
5.	ePn A	05 24 04	<u>Central Italy</u> 43.06 N 12.63 E	
	ePg A	24 38	H = 05 22 10.4 h = normal MB = 4.2	
	eSn A	25 34	D = 7.62 Az = 355.1 (NEIS)	
	eSg A	26 14		
5.	eP AB	12 10 29.5	<u>Peru - Brazil Border Region</u>	
		7.69 S 74.45 W		
	epP B	11 04	H = 11 57 31.3 h = 162 km MB = 6.0	
	ePP C	14 30	D = 93.39 Az = 39.5 (NEIS)	
	epPP C	14 50		
	iSKS B	20 52	PV A 1.8s 304.0nm M = 6.2	
	eS B	21 26	PV B 8 2.8,um 6.5	
	eSP C	22 30	SKSH B 12 7.5,um	
	ePKKP A	27 38	PKKPV A 1.2 28.5nm	
	eSS B	27 54	LmH B 17 2.1,um	
	esSS C	28 52	LmV B 17.5 3.8,um	
	LmH B	49.8		
	LmV B	49.8		
5.	eP A	23 10 31	<u>Kurile Islands</u> 46.07 N 149.00 E	
			H = 22 58 56.3 h = 179 km MB = 4.8 D = 76.86 Az = 333.7 (NEIS) PV A traces	
6.	eP A	14 11 18	<u>Panama - Costa Rica Border Region</u>	
			8.30 N 82.85 W	
			H = 13 58 38.6 h = 46 km MB=5.4 MS=5.4 D = 86.47 Az = 39.5 (NEIS) LmH B 18s 1.7,um M = 5.5 LmV B 18 1.8,um 5.5	
6.	eP A	17 22 27	<u>Mariana Islands Region</u> 21.61 N 145.67 E	
		ePP A	26 24.5	H = 17 08 53.8 h = normal MB = 5.4 D = 97.45 Az = 332.5 (NEIS) PV A traces
6.	ePn A	17 50 59	<u>Central Italy</u> 42.80 N 12.90 E	
		eSn A	51 30	H = 17 49 03.7 h = normal MB = 4.0
		eSg A	52 26	D = 7.90 Az = 354.1 (NEIS)

## Moxa

Day	Phase	h m s	Remarks
7.	ePKP A	05 49 20	<u>Tonga Islands</u> 15.10 S 173.48 W H = 05 29 46.0 h = normal MB=4.8 MS=4.7 D = 144.31 Az = 354.4 (NEIS)
7.	eiP eS LmH LmV	AB B B B	07 46 06.5 56 00 08 30.8 30.9 <u>Fox Islands, Aleutian Is.</u> 51.86 N 170.80 W H = 07 34 11.0 h = normal MB=5.5 MS=5.8 D = 77.85 Az = 358.4 (NEIS) PV A 1.3s 87.4nm M = 5.6 LmH B 17 4.2/um 5.8 LmV B 16 4.0/um 5.9
7.	eP A	14 05 49.5	<u>Burma - India Border Region</u> 23.93 N 93.88 E H = 13 54 58.0 h = normal MB = 4.8 D = 67.08 Az = 316.8 (NEIS) PV A 1.1s 10.1nm M = 4.8
7.	ePP A	14 47 36	<u>Solomon Islands</u> 5.65 S 154.34 E H = 14 26 52.3 h = 93 km MB = 5.4 (NEIS) D = 125.42
7.	eP e	A A	22 14 32 14 41 <u>Near Islands, Aleutian Is.</u> 51.68 N 174.76 E H = 22 02 40.2 h = 33 km MB=5.0 MS=4.9 D = 77.06 Az = 349.1 (NEIS) PV A 1.0s 19.7nm M = 5.1
8.	eP A	00 31 52	<u>Iceland</u> 63.99 N 22.82 W H = 00 26 53.6 h = normal MB = 4.3 D = 22.54 Az = 110.0 (NEIS) PV A 1.5s 20.1nm M = 4.4
8.	eP A	01 05 37	<u>Iceland Region</u> 63.7 N 23.1 W H = 01 00 36 h = 0 km D = 22.56 Az = 109 (ISC) PV A 1.5s 15.1nm

## December 1974

## Moxa

Day	Phase	h m s	Remarks
8.	eP LmV	A B	01 31 34 42.9 <u>Iceland Region</u> 63.75 N 22.57 W H = 01 26 34.5 h = 28 km MB = 4.6 D = 22.35 Az = 109.8 (NEIS) PV A 1.0s 15.8nm M = 4.4 LmV B 13 0.7/um 4.4
8.	eP A	01 51 26	<u>Iceland</u> 64.00 N 22.78 W H = 01 46 28.7 h = normal MB = 4.4 D = 22.52 Az = 110.1 (NEIS)
8.	eP A	03 55 34	<u>Iceland</u> 64.01 N 22.75 W H = 03 50 35.4 h = 15 km MB = 4.1 D = 22.51 Az = 110.2 (NEIS)
8.	eP A	04 01 12	<u>Iceland Region</u> 63.93 N 22.06 W H = 03 56 13.9 h = 34 km MB = 4.3 D = 22.20 Az = 110.9 (NEIS) PV A 1.5s 20.1nm M = 4.3
8.	eP A	06 52 56	<u>Iceland Region</u> 63.79 N 22.52 W H = 06 47 54.4 h = 11 km MB = 4.3 D = 22.34 Az = 109.9 (NEIS) PV A 1.3s 15.3nm M = 4.3
8.	eP A	07 10 14.5	<u>Iceland</u> 64.01 N 22.51 W H = 07 05 16.8 h = normal MB = 4.3 D = 22.44 Az = 110.7 (NEIS) PV A 1.4s 14.0nm M = 4.2
8.	e A	18 07 45	<u>Tonga Islands Region</u> 18.10 S 172.73 W H = 17 47 56.2 h = normal MB = 4.9 D = 147.34 Az = 354.9 (NEIS)
9.	eP A	04 37 24.5	<u>Northern Yukon Territory, Canada</u> 65.16 N 134.10 W H = 04 27 08.9 h = 34 km MB = 4.3 D = 61.53 Az = 24.1 (NEIS)

Day	Phase	h m s	Remarks
9.	ePKHKP A	10 06 18	<u>Tonga Islands</u> 20.25 S 174.28 W
	ePKP2 A	06 23	H = 09 46 32.1 h = normal MB=5.4 MS=4.9 D = 149.31 Az = 352.6 (NEIS) PKP2V A 2.2s 120.0nm
9.	eP A	11 02 32	<u>Mascarene Islands Region</u> 17.02 S 66.87 E H = 10 50 07.9 h = normal MB = 5.0 D = 82.94 Az = 328.2 (NEIS)
9.	ePn A	12 15 22	<u>Austria</u> 48.17 N 16.86 E
	ePg A	15 37	H = 12 14 15.8 h = 10 km
	eSg A	16 29	D = 4.23 Az = 307.9 (NEIS)
9.	ePn A	13 02 39	<u>Northern Italy</u> 46.78 N 12.82 E
	eSn A	03 29	H = 13 01 40.4 h = normal
	eSg A	03 51	D = 3.95 Az = 348.8 (NEIS)
10.	ePKHKP A	01 23 16.5	<u>Fiji Islands Region</u> 19.95 S 178.54 W
	ePKP2 A	23 21.5	H = 01 04 37.9 h = 626 km MB = 4.7 D = 148.33 Az = 347.7 (NEIS) PKHKPV A 1.0s 19.7nm
10.	ePn A	01 36 38	D = 2.4
	eSg A	37 16	
10.	eP A	01 48 53.5	<u>Hindu Kush Region</u> 36.46 N 70.48 E
	epP A	49 39.5	H = 01 41 06.0 h = 204 km MB = 5.5
	e C	51 48	D = 43.81 Az = 308.1 (NEIS)
	eS C	55 08	PV A 1.4s 158.1nm M = 5.3
	esS C	56 24	
	eSS C	58 32	
10.	eP1 A	02 39 50	<u>North Atlantic Ridge</u> 30.43 N 41.94 W
	eP2 A	39 55	H = 02 31 39.8 h = normal MB=5.0 MS=4.9
	LmH C	55.2	D = 44.33 Az = 47.1 (NEIS)
	LmV C	55.2	P2V A 2.0s 51.3nm M = 5.0
			LmH C 20 1.8/um 5.0
			LmV C 18 2.5/um 5.3

Day	Phase	h m s	Remarks
10.	e A	11 37 23	
10.	eP A	13 14 40	<u>Off Coast of Hokkaido, Japan</u> 42.50 N 146.54 E H = 13 02 36.3 h = 36 km MB = 5.0 D = 79.25 Az = 332.7 (NEIS)
	eP A	19 58 37	<u>West Pakistan</u> 27.58 N 65.20 E H = 19 50 12.6 h = 43 km MB = 4.5 D = 46.32 Az = 314.9 (NEIS)
11.	eP A	13 35 36	<u>Off East Coast of Kamchatka</u> 55.38 N 163.01 E H = 13 24 16.2 h = normal MB=4.7 MS=4.3 D = 71.69 Az = 341.3 (NEIS)
	ePKP A	17 30 21	<u>Tonga Islands</u> 17.48 S 174.10 W
11.	epPKP A	30 48	H = 17 10 55.4 h = 158 km MB = 4.7 D = 146.60 Az = 353.4 (NEIS) h = 95 km PKPV A traces
	ePn A	01 36 43	<u>Yugoslavia</u> 45.8 N 15.1 E
12.	eSg A	38 10	H = 01 35 23 h = 0 km D = 5.39 Az = 336 (ISC)
	PnV A	0.7s 13.4nm	
13.	e(PP) A	07 48 08	<u>Philippine Islands Region</u> 4.91 N 127.37 E
	e A	48 30	H = 07 30 02.3 h = 90 km MB = 5.4 (NEIS) D = 102.13 PPV A 1.7s 24.2nm M = 5.6
13.	ePn A	22 51 05.5	<u>Northern Italy</u> 45.74 N 12.39 E
	ePg A	51 28.5	H = 22 49 52.3 h = normal
	e A	51 36	D = 4.94 Az = 354.3 (NEIS)
	eSn A	52 00	
	eSg A	52 28	

Day	Phase	h	m	s	Remarks		
13.	ePg	A	23	14	19	Probably <u>Northern Italy</u> D c. 4.9	
	e	A		14	27		
	eSn	A		14	52		
	eSg	A		15	19		
14.	eP	A	02	39	55	<u>Greece</u> 38.28 N 20.75 E H = 02 36 38.4 h = normal MB = 5.3 D = 13.97 Az = 335.2 (NEIS) PV A 0.9s 31.1nm M = 5.1 LmH B 13 4.2/um 4.7 LmV B 12 2.9/um	
	LmV	B		46.4			
	LmH	B		46.5			
14.	e	A	06	34	54.5		
14.	eP	A	12	43	24.5	<u>Kurile Islands</u> 47.27 N 154.05 E H = 12 31 31.8 h = normal MB = 5.0 D = 77.24 Az = 336.5 (NEIS) PV A 1.4s 42.8nm M = 5.3	
14.	eP	A	20	20	52	<u>Halmahera</u> 2.62 N 128.41 E H = 20 07 10.0 h = 218 km MB = 5.5 (NEIS) D = 104.57	
	ePP	A		25	21		
14.	eiP	A	21	32	35	<u>Greece</u> 38.61 N 20.41 E H = 21 29 19.8 h = 11 km MB = 5.0 D = 13.56 Az = 335.5 (NEIS) PV A 0.9s 33.1nm M = 5.5	
15.	ePKHKP	A	17	07	17	<u>Tonga Islands</u> 17.97 S 174.22 W H = 16 47 35.7 h = normal MB = 5.1 MS=4.9 D = 147.07 Az = 353.2 (NEIS) PKHKPV A 1.6s 35.7nm	
15.	eP	A	18	29	19	<u>Norwegian Sea</u> 74.60 N 12.72 E H = 18 24 07.6 h = normal MB = 4.6 D = 24.05 Az = 181.7 (NEIS)	

Day	Phase	h	m	s	Remarks	
15.	e	A	20	59	05.5	<u>Central Italy</u> 22.43N 11.7 E H = 20 57 01.0 h = 0 km D = 7.10 Az = 359 (ISC)
	e	A		59	08	
	e	A		59	48	
	eSn	A	21	00	05	
16.	ePKIKP	A	05	30	40	<u>Solomon Islands</u> 7.48 S 155.97 E H = 05 11 49.3 h = 150 km MB = 4.8 D = 127.79 Az = 332.0 (NEIS)
16.	eP	A	06	30	46.5	<u>Eastern Kazakh SSR</u> 49.76 N 78.06 E H = 06 23 02.4 h = normal MB = 5.0 D = 41.24 Az = 297.7 (NEIS) Underground explosion (UPP) PV A 0.8s 23.1nm M = 5.0
	ePn	A		32	19	
16.	eP	A	06	48	46	<u>Eastern Kazakh SSR</u> 49.82 N 78.12 E H = 06 41 02.4 h = normal MB = 4.8 D = 41.24 Az = 297.7 (NEIS) Underground explosion (UPP) PV A 0.7s 23.0nm M = 5.0
16.	ePP	C	08	15	10	<u>Easter Island Region</u> 24.88 S 112.12 W H = 07 53 56.8 h = 33 km MB = 5.1 (NEIS) D = 130.07 LmH C 16s 1.2/um M = 5.7 LmV C 16 2.5/um 6.0
	eSKP	C		16	32	
	eSS	C		32	40	
	eSSS	C		37	25	
	LmH	C	09	13.0		
	LmV	C		17.4		
16.	ePn	A	17	20	20	<u>Federal Republic of Germany</u> 49.72 N 6.41 E H = 17 19 23.2 h = normal D = 3.48 Az = 72.5 (NEIS)
	eSn	A		20	57	
	eSg	A		21	13	
16.	ePn	A	17	54	08	<u>Federal Republic of Germany</u> 49.75 N 6.45 E H = 17 53 14.3 h = normal D = 3.44 Az = 73.0 (NEIS) PnV A traces
	e	A		54	13	
	e	A		54	59	
	e	A		55	04	

Moxa

Day	Phase	h m s	Remarks	
16.	ePKIKP ePKHKP	A A	23 19 05 19 09	<u>Fiji Islands Region</u> 19.53 S 178.12 W H = 23 00 30.5 h = 624 km MB = 4.8 D = 148.01 Az = 348.3 (NEIS) traces
17.	ePKHKP ePKP2 LmH LmV	A A C C	15 55 11 55 18 17 03.0 03.3	<u>West of Macquarie Island</u> 54.14 S 143.43 E H = 15 35 21.2 h = normal MB=5.1 MS=5.8 D = 150.84 Az = 283.1 (NEIS) LmH C 22s 2.9/um M = 6.0 LmV C 22 1.8/um 5.8
17.	ePKP e	A A	21 59 04 59 16	<u>Tonga Islands</u> 20.94 S 175.22 W H = 21 39 11.1 h = normal MB = 4.8 D = 149.86 Az = 351.3 (NEIS) PKPV A 1.6s 27.4nm
17.	ePKHKP ePKP2	A A	23 21 40 21 45	<u>Tonga Islands</u> 20.53 S 175.34 W H = 23 01 52.6 h = 31 km MB = 5.4 MS=5.2 D = 149.44 Az = 351.3 (NEIS) PKP2V A 1.6s 93.5nm
18.	eP LmV LmH	A B B	08 04 16 30.0 30.5	<u>Mongolia</u> 48.40 N 103.11 E H = 07 54 40.4 h = normal MB=5.0 MS=5.1 D = 55.68 Az = 309.6 (NEIS) PV A 1.8s 74.4nm M = 5.4 LmH B 13.5 2.6/um 5.5 LmV B 14 3.0/um 5.6
18.	eP	A	20 16 18	<u>Norwegian Sea</u> 67.85 N 10.35 E H = 20 12 15.1 h = normal MB = 4.6 D = 17.27 Az = 177.3 (NEIS)
19.	ePKP	A	11 17 30	<u>Fiji Islands</u> 17.47 S 179.04 E H = 10 59 01.9 h = 646 km MB = 4.5 D = 145.40 Az = 345.9 (NEIS) PKPV A 1.8s 54.0nm

278

December 1974

Moxa

Day	Phase	h m s	Remarks	
19.	ePKIKP	A	15 52 23.5	<u>Santa Cruz Islands</u> 12.31 S 166.67 E H = 15 33 14.5 h = 133 km MB = 4.9 D = 136.67 Az = 337.0 (NEIS) PKIKPV A 1.0s 9.9nm
19.	eP eS ePS eSS LmH LmV	AB C C C B B	16 13 23.5 24 05 24 44 29 28 45.0 45.0	<u>Panama</u> 7.38 N 78.65 W H = 16 00 49.0 h = 13 km MB=5.4 MS=5.8 D = 84.52 Az = 39.8 (NEIS) PV A 1.5s 40.2nm M = 5.4 LmH B 21 6.1/um 6.0 LmV B 22 4.7/um 5.9
20.	-eiPKP	A	02 59 23.5	<u>Fiji Islands Region</u> 15.39 S 177.09 W H = 02 40 31.3 h = 374 km MB = 5.1 D = 144.14 Az = 350.5 (NEIS) PKPV A 1.3s 78.6nm
20.	ePKP	A	14 49 27	<u>Tonga Islands</u> 20.15 S 173.96 W H = 14 29 47.6 h = 117 km MB = 4.8 D = 149.25 Az = 353.1 (NEIS) PKPV A 1.8s 40.6nm
20.	eP LmH LmV	A C C	15 12 29.5 17.8 18.4	<u>Greece-Albania Border Region</u> 39.74 N 20.38 E H = 15 09 29.0 h = 12 km MB = 4.8 D = 12.53 Az = 333.4 (NEIS) PV A 1.3s 21.8nm M = 5.2 LmH C 14 2.4/um 4.4 LmV C 14 3.1/um
20.	eiP epP	A A	16 49 46.5 51 22.5	<u>Northwest of Kurile Islands</u> 49.83 N 149.68 E H = 16 38 55.6 h = 416 km MB = 5.0 D = 73.69 Az = 333.7 (NEIS) h = 436 km PV A 1.4s 69.7nm M = 5.1

279

Day	Phase	h m s	Remarks
21.	eP	A 00 39 29	<u>Panama</u> 7.34 N 78.64 W H = 00 26 53.8 h = normal MB = 5.1 D = 84.55 Az = 39.8 (NEIS) PV A 1.3s 19.6nm M = 5.1
21.	iPg iSg	A 01 47 50.3 A 49 58.3	<u>Vogtland, German Democratic Republic</u> 50.5 N 12.6 E H = 01 47 39 h = 0 km D = 0.62 Az = 282 (ISC)
21.	ePKP LmH LmV	A 08 48 33 B 09 54.5 B 10 03.4	<u>Samoa Islands Region</u> 14.56 S 175.23 W H = 08 28 55.9 h = normal MB=5.6 MS=6.1 D = 143.59 Az = 352.7 (NEIS) PKPV A 1.8s 67.5nm LmH B 20 4.4/um M = 6.2 LmV B 16 3.1/um 6.2
21.	e(Pn) e e eSn e(Sg)	A 15 16 24.5 A 16 33 A 16 39.5 A 17 03.5 A 17 31	
21.	eP	A 20 51 02	<u>Burma-China Border Region</u> 25.84 N 97.78 E H = 20 40 01.7 h = normal MB = 4.9 D = 68.12 Az = 316.8 (NEIS) traces
22.	ePKP2	A 02 38 55	<u>South of Fiji Islands</u> 26.89 S 176.18 W H = 02 18 36.9 h = normal MB = 5.1 D = 155.54 Az = 348.0 (NEIS)
22.	eP	A 04 57 38	<u>North Eastern China</u> 41.7 N 123.30 E H = 04 46 18.9 h = 0 km MB = 5.0 D = 70.43 Az = 321 (ISC)

Day	Phase	h m s	Remarks
22.	+iPKP	A 17 02 44	<u>Fiji Islands Region</u> 17.62 S 179.02 W H = 16 44 05.3 h = 559 km MB = 5.1 D = 145.97 Az = 347.9 (NEIS) PKPV A 2.0s 184.0nm
22.	ePKP2	A 18 26 54	<u>Kermadec Islands Region</u> 26.95 S 176.30 W H = 18 06 36.2 h = normal MB=5.2 MS=5.0 D = 155.58 Az = 347.8 (NEIS)
23.	ePKP LmV	A 01 23 37.5 C 02 23.8	<u>Samoa Islands Region</u> 14.59 S 175.67 W H = 01 04 02.7 h = normal MB=5.4 MS=5.6 D = 143.56 Az = 352.2 (NEIS) LmV C 22s 1.0/um M = 5.5
23.	eP1 eP2 eP3 LmH LmV	A 05 27 34 A 27 39.5 A 27 43.5 B 39.5 B 40.5	<u>Eastern Caucasus</u> 43.13 N 47.05 E H = 05 22 08.4 h = normal MB=4.9 MS=5.0 D = 25.17 Az = 299.8 (NEIS) P1V A 0.8s 15.4nm M = 4.6 P2V A 1.0 19.7nm 4.6 P3V A 1.6 60.4nm 4.9 LmH B 14 1.9/um 4.8 LmV B 11 2.3/um 5.1
23.	+eP	A 09 55 14	<u>Nepal</u> 29.41 N 81.39 E H = 09 45 42.8 h = 45 km MB = 5.2 D = 55.33 Az = 313.4 (NEIS) PV A 1.1s 32.3nm M = 5.3
23.	+ePKP	A 11 35 38.5	<u>Fiji Islands Region</u> 16.21 S 176.66 W H = 11 16 48.3 h = 421 km MB = 4.6 D = 145.01 Az = 350.8 (NEIS) PKPV A 0.9s 23.4nm
23.	e(P)	A 16 35 46	<u>Crete</u> 35.39 N 26.08 E H = 16 31 24.5 h = normal MB = 4.5 D = 18.50 Az = 329.9 (NEIS)

Moxa

Day	Phase	h m s	Remarks
23.	e(P) A	16 35 46	<u>Crete</u> 35.39 N 26.08 E H = 16 31 24.5 h = normal MB = 4.5 D = 18.50 Az = 329.9 (NEIS)
23.	eP A e A LmV C	23 55 06.5 55 41.5 24 27.3	<u>South of Panama</u> 5.26 N 82.54 W H = 23 42 14.5 h = normal MB=5.1 MS=5.0 D = 88.61 Az = 39.4 (NEIS) LmV C 22s 1.6/um M = 5.4
24.	eP AC epP A LmV C	02 22 51.5 23 28 54.0	<u>Guatemala</u> 14.26 N 90.08 W H = 02 10 25.4 h = 155 km MB = 5.4 D = 86.35 Az = 38.7 (NEIS) h = 146 km pPV A 1.6s 159.4nm
24.	eP1 A eP2 A eS B LmH B LmV B	07 08 45 08 48 19 36 08 05.3 12.4	<u>Southern Sumatra</u> 2.31 S 99.04 E H = 06 55 47.1 h = normal MB=5.8 MS=6.8 D = 90.13 Az = 320.5 (NEIS) P1V A 2.4s 166.5nm M = 5.9 P2V A 1.9 310.6nm 6.3 LmH B 16 12.4/um 6.4 LmV B 15 11.4/um 6.4
24.	eP A	10 32 02	<u>Turkey</u> 37.52 N 29.80 E H = 10 27 42.8 h = 25 km MB = 4.6 D = 18.45 Az = 321.1 (NEIS)
24.	eP A	20 03 16	<u>Hindu Kush Region</u> 36.40 N 70.39 E H = 19 55 29.8 h = 206 km MB = 4.6 D = 43.79 Az = 308.1 (NEIS)
25.	ePKIKP A	02 36 21	<u>New Hebrides Islands</u> 14.30 S 167.25 E H = 02 17 14.4 h = 179 km MB = 5.0 D = 138.72 Az = 336.5 (NEIS)
25.	+eiP A eS C LmH B	03 01 03.5 10 52 44.6	<u>Near Islands, Aleutian Is.</u> 51.70 N 174.64 E H = 02 49 13.0 h = 40 km MB=5.7 MS=5.8

282

December 1974

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Day	Phase	h m s	Remarks
cont. 25.	LmV B	03 47.3	D = 77.02 Az = 349.0 (NEIS) PV A 1.4s 134.9nm M = 5.8 LmH B 16 3.9/um 5.8 LmV B 16 3.6/um 5.8
25.	eP A	08 06 37	<u>Near Islands, Aleutian Is.</u> 51.73 N 174.49 E H = 07 54 46.0 h = 37 km MB=5.1 MS=4.8 D = 76.97 Az = 348.9 (NEIS) PV A 1.3s 21.8nm M = 5.0
25.	eP A	09 30 14	<u>South Atlantic Ridge</u> 28.95 S 13.13 W H = 09 17 48.3 h = 0 km MB = 4.8 D = 82.22 Az = 16 (ISC)
25.	eP A	11 26 25	<u>Unimak Island Region</u> 54.08 N 163.38 W H = 11 14 40.7 h = 30 km MB = 4.4 D = 75.57 Az = 3.3 (NEIS)
25.	ePKIKP A ePKP2 A e(PP) A	12 52 28 53 07 57 03.5	<u>Kermadec Islands Region</u> 31.90 S 179.84 E H = 12 33 09.6 h = 327 km MB = 5.1 D = 159.34 Az = 338.4 (NEIS) PKP2V A 1.4s 32.5nm PPV A traces
25.	eP A epP A	15 13 48 15 38	<u>Northwest of Kurile Islands</u> 52.51 N 152.05 E H = 15 03 16.7 h = 524 km MB = 4.8 D = 71.92 Az = 334.7 (NEIS) h = 543 km
26.	eP A e A	14 05 59.5 06 07	<u>Crete</u> 35.00 N 23.22 E H = 14 01 49.2 h = normal MB = 4.4 D = 17.77 Az = 335.2 (NEIS) PV A traces
26.	eP A	18 43 33	<u>Southern Iran</u> 29.50 N 52.73 E H = 18 36 21.9 h = normal MB = 4.8 D = 37.26 Az = 316.3 (NEIS)

283

Day	Phase	h m s	Remarks
27.	ePKP A	01 11 56	<u>Fiji Islands Region</u> 16.41 S 176.20 W H = 00 53 00.7 h = 380 km MB = 4.6 D = 145.27 Az = 351.3 (NEIS) PKPV A 1.2s 12.2nm
27.	+iP ePr A	05 54 48.8 56 26	<u>Eastern Kazakh SSR</u> 49.96 N 79.05 E H = 05 46 56.8 h = 0 km MB=5.6 MS=4.7 D = 41.71 Az = 297.9 (NEIS) Underground explosion MB = 6.4 (UPP) PV A 1.0s 78.9nm M = 5.4 PnV A 1.1 32.3nm
27.	ePKIKP A ePKP2 A	11 48 47 49 20	<u>Kermadec Islands</u> 29.29 S 177.45 W H = 11 28 57.8 h = 61 km MB = 5.0 (NEIS) D = 157.60 PKP2V A 1.5s 30.2nm
27.	ePKP2 A	12 16 45	<u>Kermadec Islands</u> 29.40 S 177.34 W H = 11 56 18.1 h = 22 km MB = 4.9 (NEIS) D = 157.73
28.	eP A	00 23 35	<u>Alaska Peninsula</u> 54.19 N 162.77 W H = 00 11 53.7 h = 44 km MB = 4.6 D = 75.43 Az = 3.7 (NEIS) PV A 1.1s 20.2nm M = 5.0
28.	+eiP AB ePP C ePPP C eS C eSS C LmH B LmV B	12 20 08.5 22 00 22 25 26 45 30 16 40.3 43.5	<u>West Pakistan</u> 35.05 N 72.87 E H = 12 11 43.8 h = 22 km MB=6.0 MS=6.2 D = 46.20 Az = 309.3 (NEIS) PV A 2.2s 577.0nm M = 6.1 PV B 8 4.6/um 6.5 LmH B 17 17.4/um 6.1 LmV B 15 22.2/um 6.3
28.	eP A epP A	24 02 14 02 59.5	<u>Mexico-Guatemala Border Region</u> 14.97 N 91.06 W H = 23 49 51.0 h = 186 km MB = 4.6 D = 86.39 Az = 38.5 (NEIS) h = 185 km

Day	Phase	h m s	Remarks
29.	eP1 AB eP2 AB eS B LmV B LmH B	03 54 44.5 54 47.5 58 40 04 03.8 04.8	<u>Iceland</u> 64.51 N 17.63 W H = 03 50 06.1 h = normal MB = 5.2 D = 20.67 Az = 118.2 (NEIS) P1V A 1.7s 90.9nm M = 4.9 P2V A 1.6 258.0nm 5.3 LmH B 14 4.5/um 5.0 LmV B 20 4.9/um 5.0
29.	eP A	05 07 04	<u>Tadzhik SSR</u> 39.20 N 71.81 E H = 04 59 09.6 h = 69 km MB = 5.0 D = 43.00 Az = 305.9 (NEIS)
29.	-iP AB epP AB	18 35 49.0 36 08	<u>Southern Alaska</u> 61.60 N 150.51 W H = 18 25 00.7 h = 67 km MB = 5.6 D = 67.20 Az = 12.2 (NEIS) h = 77 km PV A 1.1s 230.0nm M = 6.1 pPV A 1.3 91.7nm
30.	eP A epP A	03 44 02 44 18.5	<u>Central Alaska</u> 61.98 N 149.69 W H = 03 33 16.6 h = 62 km MB = 5.1 D = 66.74 Az = 12.8 (NEIS) h = 64 km PV A 1.0s 21.6nm M = 5.1 pPV A 0.9 40.9nm
30.	eP A ePP A	04 55 39 57 22	<u>Hindu Kush Region</u> 35.99 N 69.72 E H = 04 47 44.3 h = 116 km MB = 5.3 D = 43.61 Az = 308.4 (NEIS) PV A 1.4s 69.8nm M = 5.2 PPV A 1.2 40.7nm 5.0
30.	eP A	15 28 39.5	<u>Szechwan Province, China</u> 28.85 N 103.95 E H = 15 17 29.2 h = normal MB = 4.7 D = 69.67 Az = 317.3 (NEIS)



Day	Phase	h m s	Remarks
30.	eP	A 24 09 12	<u>Off East Coast of Honshu, Japan</u> 39.53 N 143.18 E H = 23 57 03.2 h = 51 km MB = 4.6 D = 80.67 Az = 331.1 (NEIS)
31.	eP	A 04 48 58.5	<u>Andreanof Islands, Aleutian Is.</u> 52.53 N 179.26 W H = 04 37 31.2 h = 228 km MB = 5.1 D = 76.79 Az = 352.9 (NEIS)
31.	eP	A 20 28 14.5	<u>Guatemala</u> 14.15 N 91.92 W H = 20 15 32.8 h = 75 km MB = 5.4 D = 87.55 Az = 38.3 (NEIS) PV A 1.3s 21.8nm M = 5.1
31.	eP	AB 20 33 54	<u>Guatemala</u> 14.13 N 91.82 W H = 20 21 09.1 h = 39 km MB=5.7 MS=6.1
	eSKS	B 44 26	D = 87.51 Az = 38.3 (NEIS)
	eSS	B 50 24	PV A 1.0s 19.7nm M = 5.3
	eSSS	B 54 32	PV B 14 1.5/um 6.1
	LmH	B 21 16.0	LmH B 18.5 6.8/um 6.2
	LmV	B 16.0	LmV B 19 6.8/um 6.1
31.	e	A 21 02 44	<u>Czechoslovakia</u> 49.9 N 18.7 E H = 21 00 25 h = 0 km (ISC) D = 4.6

# Geophysik und Geologie

Geophysikalische Veröffentlichungen der Karl-Marx-Universität Leipzig

Herausgegeben von Robert Lauterbach

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## 21. Geophysikalisches Symposium der sozialistischen Länder

Leipzig, 14. bis 17. September 1979

Herausgegeben vom Vorstand der Gesellschaft für Geologische Wissenschaften der DDR (GGW)  
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Aus verschiedenen Bereichen der theoretischen und angewandten Geophysik werden Probleme behandelt, die die vielfältigen Einsatzmöglichkeiten der geophysikalischen Meßverfahren in der geologischen Erkundungspraxis demonstrieren. Die theoretischen Darlegungen dienen dazu, die Meßverfahren zu verfeinern und damit Meßergebnisse besser zu interpretieren, um Fehldeutungen auf ein Minimum zu reduzieren.

Die Artikel, die sich mit praktischen Untersuchungsverfahren und deren Einsatz beschäftigen, zeigen an einzelnen Beispielen, wo und wie bei der geologischen Arbeit die Geophysik wirkungsvoll helfen kann, die Untersuchungen zu vereinfachen. Dabei ist besonders erwähnenswert, daß die modernen Meßverfahren entgegen weitverbreiteten Vorurteilen nicht nur zu Untersuchungen in den Tiefenbereichen der Erdkruste, sondern auch zur Naherkundung eingesetzt werden können. Damit helfen sie, die Erkundungszeit z. B. von Lagerstätten der Steine und Erden, der Braunkohle und in der Hydrogeologie bedeutend zu verkürzen.

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