

AKADEMIE DER WISSENSCHAFTEN DER DDR

Zentralinstitut für Physik der Erde (ZIPE)

Seismologischer Dienst Jena

---

# Seismological Bulletin 1969 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth  
and Joachim Weyrauch



---

AKADEMIE-VERLAG · BERLIN

1974

AKADEMIE DER WISSENSCHAFTEN DER DDR

Zentralinstitut für Physik der Erde (ZIPE)

Seismologischer Dienst Jena

---

# Seismological Bulletin 1969 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth,  
and Joachim Weyrauch

With 2 Figures



---

AKADEMIE-VERLAG · BERLIN

1974

ues  
MOX  
the  
the  
HIM  
DRO-  
the

## TABLE OF CONTENTS

Preface . . . . .	3
Table of Contents . . . . .	5
The Seismological Bulletin	
Preliminary Notes for the Interpretation of Seismograms . . . . .	7
Seismographs of the Station Moxa and their Parameters 1969 . . . . .	11
Amplitude Characteristics of the Station Moxa 1969 . . . . .	13
Seismological Recordings at Station Moxa 1969 . . . . .	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
- PKIKP — direct longitudinal wave travelled through the inner core (travel-time branch DF)
- PKHKP — direct longitudinal wave refracted in the intermediary zone between inner and outer core. Phase symbol according to BOLT [1] (travel-time branch GH)
- PKP2 — direct longitudinal wave travelled through the outer core only (travel-time branch AB)
- PKP — first noticeable onset of longitudinal core phase, not identified
- PP, PPP — waves reflected on the earth surface with permanent longitudinal character
- PKKP — 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 on the earth surface with permanent transversal character  
**SKKS** — wave travelled transversal through the mantle, longitudinal through the core and reflected within the core at the outer core boundary  
**PcP, ScS, PcS, ScP** — longitudinal and transversal waves with steady or changing character reflected at the outer core  
**PS, SP, PPS** — longitudinal and transversal waves with changing character reflected at the surface of the earth  
**pP, sP, pPP, sPP, pPKIKP, sPKP2, pS** — phases of deep-focus earthquakes of longitudinal or transversal waves with steady or changing character. p;s — reflected near the epicentre  
**pPKP, sPKP** — phases of deep focus earthquakes of longitudinal core waves not exactly to be coordinated  
**SKP, PKS** — core phases with different character before and after the direct transit of the core  
**SKSP** — SKS wave with longitudinal character after the reflection at the surface of the earth  
**P1, P2, P3, ...**  
**PP1, PP2, ...**  
**S1, S2, ...**  
**PKKP1, PKKP2, ...**  
**PKPPKP1, PKPPKP2, ...** — multiple onsets of body waves  
**Pn, Sn** — teleseismic Pn and Sn waves in the epicentral distances  $23^\circ < D < 40^\circ$  after BATH [2]  
**Pa, Sa** — waves probably guided in the asthenosphere channel or higher modes of surface waves  
**PL** — leaking modes, normal dispersed train of waves of periods greater than about 10 s, beginning at or near the time of initial P-wave  
**X, Y, Z** — remarkable phases of body waves, not to be identified

**LmV, LmH** — maximum of the vertical and horizontal component respectively of longperiodical surface waves. If there are several maxima with comparable proportions in A/T, the numeration was carried out in a temporal sequence e. g. Lm1H, Lm2H

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. Measurement of amplitudes and calculation of magnitudes

All data of amplitudes and periods printed in the column "remarks" are always taken from the records of the same instruments, from which are taken the onset-times of the corresponding phases. In case of doubt the symbol of phase and component is followed by the symbol of the type of instruments in parenthesis e. g.: PV(A), PV(B), SH(B)

Data of amplitudes obtained from records of instruments of type A are given in units of length of nm (1 nm = 1 nanometre =  $10^{-6}$  millimetre). Data of amplitudes obtained from instruments of type B and such obtained from instruments of type C are given in units of length  $\mu\text{m}$  (1  $\mu\text{m}$  = 1 mikrometre =  $10^{-3}$  millimetre) e. g.: PV: 1.25 s 38.6 nm, SH: 10 s 3.2  $\mu\text{m}$ , LmH: 22 s 15  $\mu\text{m}$ .

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

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

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

The station correction S was not yet taken into consideration.

- MPV, MP1V, MP2V, MPPV** — magnitude of vertical component V of the adequate body waves  
**MPH, MPPH, MSH** — magnitude of horizontal component H of the adequate body waves  
**MLV, ML1V, ML2V** — magnitude of the vertical component V of the maximum surface waves  
**MLH, ML1H, ML2H** — magnitude of the horizontal component H of the maximum surface waves  
**MAG or Mb** — magnitude of vertical component V of the first onset of P-waves (body-waves) given by USCGS  
**Ms resp. ML** — magnitude of horizontal component H of maximum surface waves given by USCGS resp. BCIS

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

### 3. Direction of body-wave onsets

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

- in the Z component + ground motion upwards, compression  
 - ground motion downwards, 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 GMT (Greenwich Mean Time)  
 USCGS - United States Coast and Geodetic Survey, Washington  
 BCIS - Bureau Central International de Séismologie, Strasbourg  
 ANUSSR - Academia Nauk USSR, Moscow  
 USAEC - United States Atomic Energy Commission, Washington, D. C.  
 ISC - International Seismological Centre, Edinburgh

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 64 (1966/II) 19-30.  
 [3] GUTENBERG, B. and RICHTER, C. F., Magnitude and energy of earthquakes. Annali di Geofisica 9 (1956) 1, 1-15.  
 [4] KÁRNÍK, V., KONDORSKAJA, N. V. u. a., Standardization of the earthquake magnitude scale. Stud. Geophys. et Geodet., Prague 6 (1962) 41-48.  
 [5] GUTENBERG, B. and RICHTER, C. F., Materials for the study of deep-focus earthquakes. Bull. Seism. Soc. Am. 26 (1936) 4, 341-390.

### Seismological Station Moxa (MOX) of the 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 (since February 1969)  
 Seismological Service  
 GDR-69, Jena, Burgweg 11  
 German Democratic Republic  
 Telex: 058 8668 seis dd

### Seismographs and their parameters 1969

- $T_s$  - 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]	$D_s$	$D_g$	$V_0$	$\sigma^2$
VSJ-II	Z	1.0	1.0	0.5	0.5	47200	0.56
A SKM-III	N	1.64	0.39	0.52	1.98	25700	
	E	1.64	0.39	0.51	1.93	25400	
B SSJ-I	Z	1.64	0.39	0.51	1.99	24600	
	N	20	1.13	0.50	8.87	109	0.074
		20	1.14	0.50	8.79	1110	0.074
	E	20	1.13	0.49	8.85	103	0.071
		20	1.16	0.49	8.61	1050	0.071
C SSJ-I/L	Z	20	1.13	0.48	8.82	108	0.048
		20	1.24	0.48	8.05	1070	0.048
	N	30	70.7	1.24	0.5	1500	0.15
	E	30	79.1	1.3	0.5	1200	0.087
Strain/L	NS		85.4		0.70	65*)	0.066
	EW		86.2		0.70	67*)	
(coupled)	NS+EW		86.2		0.70	42*)	
Wiechert 1200 kp	N	8.5		0.32		190	
	E	8.3		0.35		190	
Mainka 150 kp	N	20		0.36		50	
	E	20		0.47		40	

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

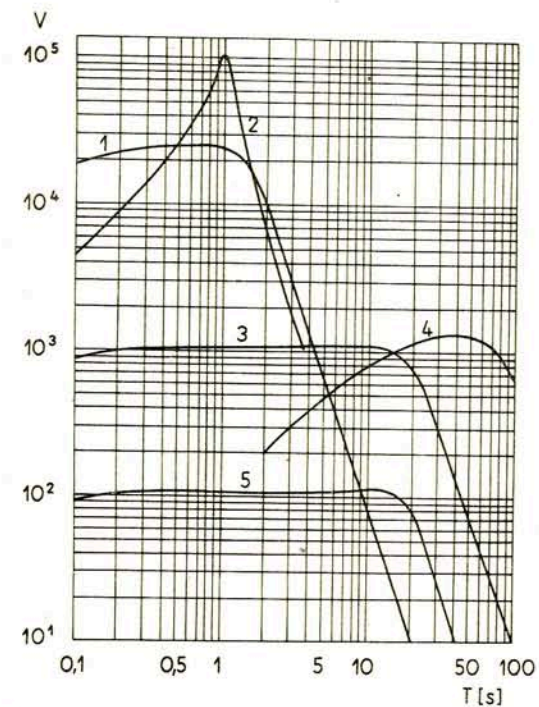
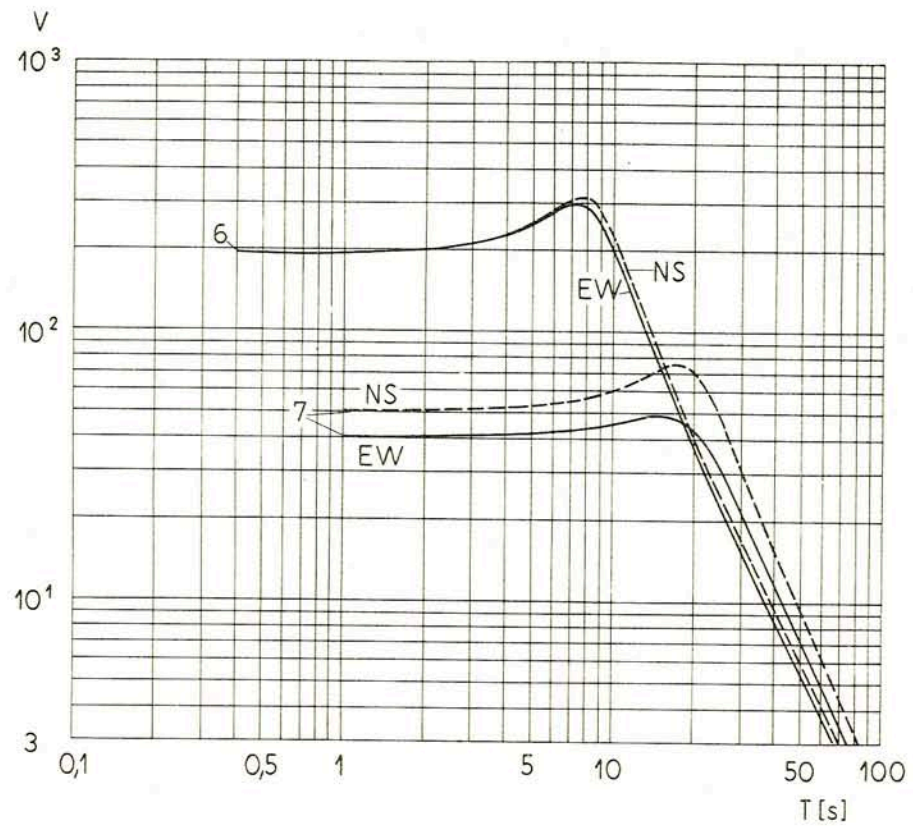


Fig. 1. Mean amplitude characteristics of the electromagnetic seismographs of the station Moxa 1969

- 1 — Seismograph Kirnos Modernised-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)



### Seismological Recordings at Station Moxa 1969

Fig. 2. Mean amplitude characteristics of the mechanical seismographs of the station Moxa 1969

- 6 — Wiechert Seismograph (NS- and EW-component)
- 7 — Mainka Seismograph (NS- and EW-component)



January 1969

Moxa

Day	Phase		h m s	Remarks
1.	eP	A	05 05 33.5	<u>Fox Islands, Aleutian Is.</u> 52.09 N 170.02 W H = 84 53 37.7 h = normal MAG=4.6 D = 77.63 Az = 358.9 (USCGS)
1.	ePKP2	A	07 13 50	<u>West of Macquarie Island</u>
	LmH	B	08 36.4	60.52 S 150.55 E
	LmV	B	37.3	H = 06 53 29.0 h = normal MAG=- D = 155.18 Az = 265.1 (USCGS) PKP2V:1.4s 13.9nm LmH:18s 0.5/um MLH=5.3
1.	+iP	A	09 19 01.2	<u>Andreanof Islands/Aleutian Is.</u>
	LmH	B	10 02.5	51.24 N 179.37 W H = 09 07 04.3 h = 34 km MAG=5.4 D = 78.06 Az = 352.9 (USCGS) PV:0.9s 43.0nm MPV=5.6 LmH:16s (0.3/um) MLH=(4.7)
1.	ePKP	A	09 44 34.5	<u>Fiji Islands</u> 16.22 S 178.36 E H = 09 25 00.5 h = normal MAG=5.3 D = 144.04 Az = 345.6 (USCGS)
1.	eiP	A	21 45 19	<u>Southern Greece</u> 36.43 N 22.98 E H = 21 41 25.1 h = 10 km MAG=4.5 D = 16.40 Az = 333.6 (USCGS)
2.	e(P)	A	01 13 20	<u>North Atlantic Ridge</u> 30.63 N 41.99 W
	LmH	B	29.3	H = 01 05 07.0 h = normal MAG=4.9
	LmV	B	29.4	D = 44.23 Az = 47.3 (USCGS) LmH:21s 0.7/um MLH=4.6 LmV:18s 0.5/um MLV=4.5
2.	eiP	A	00 44 20	<u>North Atlantic Ridge</u> 30.51 N 41.90 W
	LmH	B	01 00.4	H = 00 36 11.7 h = normal MAG=4.7
	LmV	B	00.4	D = 44.25 Az = 47.2 (USCGS) LmH:19s 0.4/um MLH=4.3 LmV:19s 0.6/um MLV=4.5

January 1969

Moxa

Day	Phase	h m s	Remarks
2.	ePKP	A 03 32 37	<u>Tonga Islands</u> 16.38 S 174.74 W H = 03 13 26.6 h = 250 km MAG=4.3 D = 145.44 Az = 352.9 (USCGS) PKPV:0.8s 13.5nm
2.	eP	A 12 19 20.5	<u>North Atlantic Ridge</u> 47.51 N 27.93 W H = 12 13 49.0 h = normal MAG=4.7 D = 25.88 Az = 68.2 (USCGS) PV:1.6s 24.6nm MPV=4.8
2.	eiP	A 14 18 26	<u>Near East Coast of Kamchatka</u> 53.91 N 160.56 E H = 14 07 05.2 h = 76 km MAG=4.9 D = 72.61 Az = 339.9 (USCGS)
2.	eP	A 15 22 00	<u>Eastern Mediterranean Sea</u> 35.50 N 28.36 E H = 15 17 33.9 h = normal MAG=4.5 D = 19.39 Az = 326.5 (USCGS) PV:1.4s 16.2nm MPV=4.1
	e	A 22 08.5	
	e	A 22 12	
	e	A 22 16	
	LmH	B 31.9	LmH:15s 1.0/um MLH=4.3
	LmV	B 31.8	LmV:18s 0.8/um MLV=4.2
2.	ePKP	A 17 51 42	<u>Tonga Islands</u> 15.17 S 173.58 W H = 17 32 09.8 h = normal MAG=4.7 D = 144.37 Az = 354.3 (USCGS) PKPV:1.6s 21.9nm
2.	eP	A 18 19 01.5	<u>Hokkaido, Japan</u> 41.98 N 142.40 E H = 18 07 07.9 h = 70 km MAG=4.7 D = 78.25 Az = 330.5
3.	eP1	A 03 23 35	<u>Iran-USSR Border Region</u> 37.13 N 57.90 E H = 03 16 38.1 h = 11 km MAG=5.6 D = 35.40 Az = 307.4 (USCGS) P1V:1.9s 41.6nm MP1V=4.9 P2V:1.7s 109.0nm MP2V=5.4 LmH:15s 1.5/um MLH=4.9 LmV:11s 1.7/um MLV=5.2
	eP2	A 23 38.5	
	LmH	B 43.3	
	LmV	B 44.4	

18

January 1969

Moxa

Day	Phase	h m s	Remarks
3.	eP	A 11 31 50	<u>Guatemala</u> 14.48 N 91.65 W H = 11 19 13.6 h = 89 km MAG=5.0 D = 87.13 Az = 38.3 (USCGS) PV:1.2s 12.5nm MPV=5.0
3.	+iP	AB 13 40 10	<u>Andreanof Island/Aleutian Is.</u> 51.17 N 179.38 W H = 13 28 12.8 h = 29 km MAG=5.8 D = 78.13 Az = 352.9 (USCGS) PV:1.6s 115.0nm MPV=5.8 LmH:18s 0.7/um MLH=5.1 LmV:20s 0.9/um MLV=5.1
	epP	A 40 14.5	
	e(S)	AB 50 05	
	LmH	B 14 22.5	
	LmV	B 22.8	
4.	-iP	A 16 18 13	<u>Kodiak Island</u> 57.93 N 153.88 W H = 16 06 58.9 h = 61 km MAG=4.5 D = 71.13 Az = 9.7 (USCGS) PV:1.3s 19.7nm MPV=5.1
4.	e(P)	A 18 24 13	<u>South Indian Ocean</u> 26.01 S 68.80 E H = 18 10 55.2 h = normal MAG=5.1 D = 91.48 Az = 327.6 (USCGS) traces
4.	ePKP	A 22 55 14	<u>Banda Sea</u> 6.77 S 129.80 E H = 22 36 47.9 h = 107 km MAG=5.7 D = 112.89 Az = 322.5 (USCGS) traces
5.	-iP	A 13 16 36.5	<u>Sea of Okhotsk</u> 48.40 N 146.15 E H = 13 05 48.8 h = 466 km MAG=4.6 D = 73.90 Az = 331.8 (USCGS) PV:1.6s 27.4nm MPV=5.0
5.	ePdiff.	C 13 42 35	<u>Solomon Islands</u> 7.98 S 158.91 E H = 13 26 39.9 h = 47 km MAG=6.4 D = 129.56 Az = 333.5 (USCGS) XV:1.8s 296.0nm LmH:21.5s 62.3/um MLH=7.3 LmV:21.5s 63.0/um MLV=7.3
	e	C 45 16	
	ePKIKP	A 45 45	
	-iX	AB 45 47	
	e	B 47 32	
	ePP	C 47 40	

19

January 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
5.	iPP AB	13 47 56	
	ePKS B	49 05	
	ePS C	58 25	
	eiSPP C	59 46	
	eSS C	14 05 28	
	LmH B	43.2	
	LmV B	47.5	
5.	ePKP A	16 10 28	<u>Loyalty Islands</u> 21.40 S 168.60 E H = 15 50 49.0 h = normal MAG=- D = 145.67 Az = 333.8 (USCGS) PKPV:1.5s 30.0nm
5.	ePP A	17 09 53	<u>Flores Island Region</u> 8.86 S 123.45 E H = 16 50 42.8 h = 27 km MAG=5.6 (USCGS) D = 110.7
6.	ePKHKP A	12 47 58.5	<u>South of Fiji Islands</u>
	ePKP2 A	48 07.5	22.53 S 179.23 E H = 12 29 12.5 h = 586 km MAG=4.5 D = 150.31 Az = 344.0 (USCGS)
6.	ePKIKP A	15 50 11	<u>Kermadec Islands</u> 30.24 S 177.98 W
	iPKP2 A	50 47	H = 15 30 29.7 h = 137 km MAG=5.2 D = 158.39 Az = 343.3 (USCGS) PKIKPV:1.7s 12.0nm PKP2V:1.8s 60.4nm
6.	-iPKIKP A	15 58 18.5	<u>Santa Cruz Islands</u> 10.51 S 164.47 E
	e B	58 19	H = 15 39 00.9 h = 32 km MAG=6.2
	ePP B	16 00 44	D = 134.17 Az = 336.1 (USCGS)
	LmH B	56.6	PKIKPV:1.8s 60.4nm
	LmV B	17 06.1	LmH:20.5s 31.1/um MLH=7.0 LmV:16.5s 25.7/um MLV=7.0
6.	ePKIKP A	17 52 59	<u>Santa Cruz Islands</u> 10.71 S 164.38 E
	e A	53 06.5	H = 17 33 40.5 h = normal MAG=5.4 D = 134.32 Az = 336.0 (USCGS)

20

January 1969

Moxa

Day	Phase	h m s	Remarks
6.	ePKP2 A	21 10 36.5	<u>Kermadec Islands Region</u> 30.18 S 178.19 W H = 20 50 24.6 h = 189 km MAG=4.5 (USCGS) D = 158.3
6.	ePn A	22 05 05	<u>Northern Italy</u> 44.11 N 10.71 E
	iPg A	05 40	H = 22 03 24.7 h = 7 km MAG=4.5
	iSn A	06 15.5	D = 6.56 Az = 5.1 (USCGS)
	eSg A	07 02	PV:0.6s 13.6nm
	LmH B	08.0	LmH:12s 1.7/um MLH=3.7
	LmV B	08.7	LmV:9s 1.3/um
			e 05 31 ei 05 58 ei 06 16 i 06 17
6.	ePKP A	23 19 11	<u>Loyalty Islands</u> 21.08 S 168.39 E
	e A	19 17.5	H = 22 59 36.3 h = normal MAG=- D = 145.30 Az = 333.8. (USCGS)
7.	e A	00 57 27	<u>Greece</u> 38.53 N 20.14 E
	e A	59 08	H = 00 50 45.8 h = 15 km MAG=4.3 (USCGS)
	LmH B	01 00.7	D = 13.9
	LmV B	00.7	LmH:8s 1.0/um MLH=4.3 LmV:8s 0.9/um
7.	eP A	07 14 33	<u>Ryukyu Islands</u> 26.12 N 129.54 E
	LmH B	58.3	H = 07 01 55.2 h = 61 km MAG=5.3
	LmV B	58.4	D = 86.01 Az = 325.7 (USCGS) LmH:16s 0.9/um MLH=5.4 LmV:16s 1.0/um MLV=5.3
7.	eP A	22 08 43	<u>Off East Coast of Kamchatka</u>
	LmV B	47.3	51.56 N 159.51 E
	LmH B	47.5	H = 21 57 05.9 h = normal MAG=4.6 D = 74.59 Az = 339.5 (USCGS)
9.	ePKP A	12 07 19.5	<u>Fiji Islands</u> 18.78 S 179.43 E
			H = 11 48 47.2 h = 619 km MAG=4.5 D = 146.75 Az = 345.8 (USCGS)

21

January 1969

Moxa

Day	Phase	h m s	Remarks
9.	ePKIKP A	19 11 51	<u>South of Fiji Islands</u> 25.19 S 178.42 E
	ePKHKP A	11 57	H = 18 53 03.5 h = 550 km MAG=5.0
	ePKP2 A	12 11	D = 152.62 Az = 341.6 (USCGS)
9.	e A	21 45 20.5	<u>Hokkaido, Japan</u> 41.37 N 140.30 E H = 21 33 24.4 h = 132 km MAG=4.3 D = 77.98 Az = 329.5 (USCGS)
10.	eP A	03 33 24	<u>Ryukyu Islands</u> 28.97 N 130.65 E
	epP A	33 35	H = 03 20 55.0 h = normal MAG=5.5
	isP A	33 40.2	D = 84.21 Az = 326.0 (USCGS)
	eS C	43 19	PV:1.6s 0.6nm MPV=5.3
	LmH B	04 15.9	LmH:12.5s 2.8/um MLH=5.8
	LmV B	16.1	LmV:14s 5.9/um MLV=5.9
10.	eP A	04 35 05.5	<u>Greece-Albania Border Region</u> 39.41 N 20.25 E H = 04 32 03.6 h = normal MAG=4.5 D = 12.77 Az = 334.4 (USCGS)
10.	iPn A	16 19 01.6	<u>Northern Italy</u> 44.62 N 11.98 E
	eiPg A	19 30	H = 16 17 31.1 h = 11 km MAG=4.5
	iSn A	20 07.2	D = 6.03 Az = 357.8 (USCGS)
	e(Sg) A	20 39	LmH:4s 0.7/um MLH=3.8
	LmH B	21.3	i 19 03.6 i 19 07.7 i 20 08.7
11.	ePKIKP B	04 46 14	<u>Kermadec Islands</u> 28.41 S 176.96 W
	ePKHKP A	46 27.5	H = 04 26 26.8 h = 68 km MAG=5.4
	ePKP2 A	46 45	D = 156.86 Az = 346.0 (USCGS)
	ePP C	50 20	PKHKPV:2.8s 64.0nm
	e(SKSP) C	05 00 50	LmH:17s 2.2/um MLH=6.0
	eSS C	10 15	LmV:17s 3.1/um MLV=6.2
	LmH B	06 08.6	
	LmV B	06.5	
11.	ePKP2 A	05 08 02	<u>Kermadec Islands</u> 28.50 S 176.82 W
	epPKP2 A	08 20	H = 04 47 42.7 h = 68 km MAG=5.1 (USCGS) D = 156.97 Az = 346.0 (ISC) PKP2V:1.5s 20.0nm

January 1969

Moxa

Day	Phase	h m s	Remarks
11.	ePKP2 A	05 23 24	<u>Kermadec Islands</u> 28.55 S 176.73 W
	epPKP2 A	23 30	H = 05 02 55.9 h = 76 km MAG=5.2 (USCGS) D = 157.12 Az = 346 (ISC)
11.	ePKP A	06 46 09	<u>Fiji Islands</u> 17.67 S 178.84 W H = 06 27 29.0 h = 529 km MAG=4.5 D = 146.06 Az = 348.1 (USCGS) PKPV:1.4s 20.8nm
11.	e A	10 25 22.5	<u>Greece</u> 38.35 N 20.10 E
	e A	25 37	H = 10 21 52.0 h = normal MAG=4.1
	eX A	26 29	D = 13.69 Az = 336.6 (USCGS)
	e A	27 50.5	XV:0.7s 11.6nm
11.	+iP A	12 09 20	<u>Ascension Islands</u> 10.25 S 13.17 W
	LmH C	35.6	H = 11 58 46.8 h = normal MAG=4.9
	LmV C	36.5	D = 64.37 Az = 17.2 (USCGS) PV:1.8s 47.0nm MPV=5.4 LmH:24s 0.8/um MLH=4.8 LmV:24s 0.9/um MLV=4.9
13.	eP A	05 50 08	<u>Greece</u> 38.31 N 22.59 E H = 05 46 41.1 h = 51 km MAG=4.7 D = 14.59 Az = 331.2 (USCGS)
13.	eP A	08 01 24	<u>Crete</u> 34.67 N 25.16 E
	e A	01 25	H = 07 57 07.0 h = 47 km MAG=4.6
	e A	01 28	D = 18.77 Az = 332.4 (USCGS)
13.	ePKIKP A	09 14 09	<u>Solomon Islands</u> 7.97 S 158.88 E
	e A	14 17	H = 08 55 03.9 h = 48 km MAG=5.7
	epPKIKP A	14 22	D = 129.54 Az = 333.5 (USCGS) PKIKPV:1.4s 27.8nm
13.	e(PKP) A	21 44 18.5	<u>Tonga Islands</u> 18.84 S 173.76 W
	esPKP2 A	44 29	H = 21 24 22.5 h = normal MAG=4.8 D = 147.98 Az = 353.5 (USCGS)

January 1969

Moxa

Day	Phase	h m s	Remarks
14.	ePn	A 01 00 24	<u>Northern Italy</u> 46.77 N 12.85 E H = 00 59 24.4 h = normal MAG=- D = 3.97 Az = 348.5 (USCGS)
	ePg	A 00 40	
	i	A 00 44	
	eSn	A 01 11.5	
	eSg	A 01 31	
14.	ePKHKP	A 11 45 57	<u>Tonga Islands</u> 20.25 S 175.81 W H = 11 26 08.4 h = 16 km MAG=4.9 D = 149.10 Az = 350.8 (USCGS) PKHKPV:1.5s 30.0nm
	ePKP2	A 46 02	
14.	iP	A 16 14 14.3	<u>Near East Coast of Honshu, Japan</u> 37.49 N 141.50 E H = 16 02 00.7 h = 60 km MAG=4.8 D = 81.80 Az = 330.4 (USCGS)
	ipP	A 14 26	
14.	+iP1	A 23 16 31.5	<u>Turkey</u> 36.18 N 29.20 E H = 23 12 07.9 h = normal MAG=5.5 D = 19.23 Az = 324.3 (USCGS) P1V:1.5s 285.0nm MP1V=5.3 P3V:1.8s 3040.0nm MP3V=6.2 PV(B):8s 11.1/um MPV(B)=6.1 LmH:17s 109.5/um MLH=6.2 LmV:11s 44.9/um MLV=6.2
	iP2	A 16 36.5	
	-iP3	A 16 40	
	iS	C 20 06	
	LmH	B 23.3	
	LmV	B 24.9	
15.	+iP	A 08 49 07	<u>Rumania</u> 45.56 N 26.42 E H = 08 46 29.4 h = 135 km MAG=4.5 D = 11.12 Az = 302.5 (USCGS) PV:1.5s 50.0nm
15.	eP	A 19 42 18	<u>Southern Nevada</u> 37.21 N 116.23 W H = 19 30 00.0 h = 0 km MAG=5.3 D = 81.23 Az = 30.6 (USCGS) Nuclear Explosion "WINESKIN" 37°12'33" N 116°13'31" W (USABC) PV:1.1s 20.2nm MPV=6.1

24

January 1969

Moxa

Day	Phase	h m s	Remarks
15.	e(P)	A 22 07 05	<u>Poland</u> 50.35 N 18.84 E H = 22 05 38.3 h = - MAG=3.2 (ISC) D = 4.45
16.	ePKHKP	A 11 26 28.5	<u>South of Fiji Islands</u> 23.59 S 176.12 W H = 11 06 35.7 h = 45 km MAG=5.1 D = 152.33 Az = 349.4 (USCGS) PKHKPV:1.2s 18.9nm
	ePKP2	A 26 37	
16.	eP	A 15 33 14	<u>Ryukyu Islands</u> 27.64 N 129.19 E H = 15 20 42.6 h = 38 km MAG=4.8 D = 84.59 Az = 325.5 (USCGS) LmH:16s 1.0/um MLH=5.3 LmV:16s 1.2/um MLV=5.4
	esP	A 33 24	
	LmH	B 16 16.0	
	LmV	B 15.8	
16.	e(P)	A 15 47(20)	<u>Near East Coast of Honshu, Japan</u> 40.14 N 142.30 E H = 15 35 15.5 h = 45 km MAG=4.4 D = 79.81 Az = 330.6 (USCGS)
	e	A 47 32	
17.	eP	A 08 38 44.5	<u>Kurile Islands</u> 47.70 N 153.95 E H = 08 26 54.8 h = normal MAG=4.8 D = 76.81 Az = 336.4 (USCGS)
	esP	A 39 19	
18.	ePKIKP	A 03 20 57	<u>South Sandwich Islands Region</u> 56.84 S 26.79 W H = 03 02 36.7 h = 141 km MAG=5.9 (USCGS) D = 111.7 e(A) 22 06.5 e(C) 23 00
	esP	C 31 00	
	ePKKP	A 32 03	
	LmV	B 04 07.7	
	LmH	B 08.0	
19.	+iP	A 17 13 31	<u>Hokkaido, Japan</u> 45.01 N 143.17 E H = 07 02 04.4 h = 204 km MAG=6.4 D = 75.88 Az = 330.6 (USCGS) PV:2.2s 2220.0nm MPV=6.5 PmV:1.8s 4870.0nm MPmV=6.9 PV(B):6s 20.3/um MPV(B)=7.0 SH:9s 116.0/um MSH=7.9 LmH:15.5s 48.9/um MLH=6.9
	ipP	B 14 25	
	isP	B 14 52	
	eiPP	B 16 16	
	ipPP	B 17 13	
	iPPPP	B 19 29	
	-iS	AB 22 51	
iSKS	B 23 17		

25

January 1969

Moxa

Day	Phase	h m s	Remarks
19.	iSSSS B	17 33 15	LmV:14s 24.8/um MLV=6.9
	eiPKPPKP A	40 37	
	LmH B	45.8	
	LmV B	48.8	
19.	eiPKIKP A	19 09 58.5	<u>New Hebrides Islands</u> 14.89 S 167.19 E
	eiPP A	13 00	H = 18 50 52.1 h = 112 km MAG=6.2
	eSKP B	13 31	D = 139.23 Az = 336.2 (USCGS)
	eSKKP A	22 09	PKIKPV:1.2s 5.85nm i(B) 10 04 i(A) 10 07.5
20.	ePn A	06 01 33	<u>Adriatic Sea</u> 43.3 N 14.4 E
	eSn A	03 02	H = 05 59 40 h = 4 km
	eSg A	03 48.5	D = 7.57 Az = 346 (ISC)
20.	ePKIKP A	12 44 03	<u>Santa Cruz Islands</u> 10.29 S 164.63 E
	ePP B	46 24	H = 12 24 35.2 h = 4 km MAG=5.6
	ePKS B	47 30	D = 134.04 Az = 336.3 (USCGS)
	LmH B	13 42.4	LmH:22s 3.6/um MLH=6.0
	LmV B	42.5	LmV:21s 2.8/um
20.	+iP A	14 31 39.2	<u>Komandorsky Islands</u> 54.86 N 166.03 E
	iPP B	34 22	H = 14 20 11.5 h = 23 km MAG=6.1
	LmH B	15 05.5	D = 72.71 Az = 343.3 (USCGS)
	LmV B	05.8	PV:1.6s 357.0nm MPV=6.2 LmH:18s 3.5/um MLH=5.7 LmV:20s 2.3/um MLV=5.5
21.	ePKIKP A	02 05 55.5	<u>Banda Sea</u> 7.31 S 128.32 E
			H = 01 47 29.6 h = 91 km MAG=5.6 (USCGS) D = 112.4
21.	eP A	08 14 06	<u>North Atlantic Ridge</u> 28.74 N 43.58 W
	iS B	21 04	H = 08 05 40.1 h = normal MAG=5.2
	eSS C	24 08	D = 46.54 Az = 46.1 (USCGS)
	LmH B	09 31.3	PV:1.6s 21.9nm MPV=5.0
	LmV B	31.3	LmH:17.5s 3.8/um MLH=5.4 LmV:16s 2.9/um MLV=5.4

26

January 1969

Moxa

Day	Phase	h m s	Remarks
21.	eP A	14 45 05	<u>Tadzhik SSR</u> 38.27 N 69.69 E
	LmH B	15 03.2	H = 14 37 15.1 h = 52 km MAG=5.1
	LmV B	06.2	D = 42.22 Az = 306.5 (USCGS) PV:2.2s 48.8nm MPV=4.9 LmH:17s 1.2/um MLH=4.9 LmV:13s 1.0/um MLV=5.1
21.	ePKP A	20 57 40	<u>Loyalty Islands</u> 21.91 S 169.88 E
	eipPKP A	57 50.5	H = 20 38 00.7 h = 33 km MAG=4.9
	LmH C	22 11.5	D = 146.64 Az = 334.6 (USCGS)
	LmV C	22.0	PKPV:1.0s 19.9nm
21.	eP A	21 15 03.5	<u>Norwegian Sea</u> 73.72 N 13.73 E
	e A	15 09	H = 21 09 55.3 h = 7 km MAG=4.6 D = 23.18 Az = 183.4 (USCGS)
21.	eP A	23 23 28.5	<u>Off East Coast of Kamchatka</u>
	e A	23 42	55.94 N 162.99 E H = 23 12 10.0 h = 23 km MAG=4.8 D = 71.15 Az = 341.2 (USCGS) PV:1.0s 19.9nm MPV=5.2
22.	+iP A	00 53 47.7	<u>Off East Coast of Kamchatka</u>
	ipP A	53 53	55.86 N 163.01 E
	LmH B	01 29.2	H = 00 42 30.0 h = normal MAG=5.5
	LmV B	33.1	D = 71.23 Az = 341.2 (USCGS) PV:1.2s 109.0nm MPV=5.9 LmH:14s 1.2/um MLH=5.4 LmV:14s 0.9/um MLV=5.2
22.	eiP A	03 28 49.5	<u>Off East Coast of Kamchatka</u>
	ei A	28 52	55.91 N 163.02 E H = 03 17 33.3 h = normal MAG=5.0 D = 71.19 Az = 341.2 (USCGS) PV:1.1s 16.2nm MPV=5.1

27

January 1969

Moxa

Day	Phase	h m s	Remarks
22.	eP	A 04 05 48	<u>Off East Coast of Kamchatka</u> 55.89 N 163.07 E H = 03 54 29.9 h = 25 km MAG=4.8 D = 71.21 Az = 341.3 (USCGS) PV:1.0s 13.8nm MPV=5.0
22.	-iP	A 17 26 25	<u>Kurile Islands</u> 49.35 N 155.49 E
	esP	A 26 45	H = 17 14 42.9 h = 50 km MAG=5.4
	LmH	B 18 01.5	D = 75.69 Az = 337.2 (USCGS)
	LmV	B 04.8	PV:2.2s 97.5nm MPV=5.5 LmH:19s 1.2/um MLH=5.2 LmV:18s 1.1/um MLV=5.2
22.	eP	A 19 50 44	<u>West Pakistan</u> 32.22 N 69.98 E H = 19 42 21.8 h = 41 km MAG=4.7 D = 46.19 Az = 311.3 (USCGS)
24.	-iPKIKP	A 02 51 42.7	<u>Fiji Islands</u> 21.88 S 179.58 W
	-iPKHKP	A 51 49.2	H = 02 33 03.5 h = 595 km MAG=5.9
	ePKP2	A 51 57	D = 149.98 Az = 345.7 (USCGS)
	epPKP	B 53 52	PKIKPV:2.4s 552.0nm
	esPKP	B 55 00	e(A) 51 43 e(C) 13 53 e(C) 13 56
	eSKKS	B 03 01 06	e(C) 17 36 e(C) 23 00
	ePSKS	C 05 40	
	eSS	C 13 53	
24.	iP	A 03 05 10.5	<u>Kurile Islands</u> 45.20 N 151.7 E H = 02 53 13 h = 26 km MAG=5.5 D = 78.45 Az = 335 (ISC)
25.	eP	A 05 33 23.5	<u>Molucca Passage</u> 0.80 N 126.08 E
	ePP	A 37 47	H = 05 19 17.2 h = 24 km MAG=5.9
	eSKS	C 43 58	D = 104.65 Az = 323.2 (USCGS)
	eiS	C 45 14	PV:2.0s 55.6nm MPV=6.1
	eSS	C 52 25	LmH:22s 3.0/um MLH=5.8
	LmH	B 06 23.1	LmV:26s 4.5/um MLV=5.9
	LmV	B 23.0	e(A) 33 27.5 e(A) 33 45 e(A) 37 37 e(C) 48 28

January 1969

Moxa

Day	Phase	h m s	Remarks
25.	eP	A 12 21 30.5	<u>Near East Coast of Kamchatka</u> 55.93 N 162.94 E H = 12 10 13.3 h = normal MAG=4.9 D = 71.15 Az = 341.2 (USCGS) PV:1.4s 14.0nm MPV=4.9
25.	eP	A 16 03 47	<u>Kenai Peninsula, Alaska</u> 60.08 N 151.88 W H = 15 52 47.6 h = 68 km MAG=4.4 D = 68.82 Az = 11.2 (USCGS)
25.	eP	A 23 45 17.5	<u>India-East Pakistan Border Region</u>
	epP	A 45 31.5	22.91 N 92.34 E
	ePcP	A 45 45.5	H = 23 34 28.4 h = 50 km MAG=5.2 D = 66.85 Az = 316.9 (USCGS) PV:1.4s 16.3nm MPV=5.1
26.	ePKP2	A 00 12 44	<u>West of Macquarie Island</u> 54.35 S 143.75 E H = 23 52 42.4 h = normal D = 151.07 Az = 282.6 (USCGS) MAG=4.5 (ISC) PKP2V:1.4s 16.3nm
26.	eP	A 02 32 35	<u>Iran</u> 36.76 N 54.49 E H = 02 25 55.8 h = 48 km MAG=4.8 D = 33.47 Az = 308.2 (USCGS)
26.	eP	A 06 19 51	<u>Philippine Islands</u> 6.56 N 127.45 E H = 06 06 05.9 h = 50 km MAG=5.4 D = 100.84 Az = 324.3 (USCGS)
26.	-iP	A 10 07 14.5	<u>Tadzhik-Sinkiang Border Region</u> 38.21 N 73.83 E H = 09 59 12.1 h = 138 km MAG=5.1 D = 44.86 Az = 307.0 (USCGS) PV:1.4s 18.6nm MPV=4.8

January 1969

Moxa

Day	Phase	h m s	Remarks
26.	eP	A 14 29 59.5	<u>Algeria</u> 35.58 N 6.04 E
	e	A 30 10	H = 14 26 17.2 h = 31 km MAG=4.7
	LmH	B 36.6	D = 15.59 Az = 13.3 (USCGS)
	LmV	B 36.5	LmH:14s 0.6/um MLH=3.9
26.	+iP	B 15 16 52	<u>Near East Coast of Kamchatka</u>
	ePP	A 19 31	55.84 N 162.93 E
	eS	E 26 12	H = 15 05 32.7 h = 16 km MAG=5.5
	ePS	B 26 40	D = 71.23 Az = 341.2 (USCGS)
	eSS	C 30 45	PV:2.0s 111.0nm MPV=5.6
	LmH	B 54.4	LmH:14s 4.2/um MLH=5.8
	LmV	E 54.0	LmV:16s 4.7/um MLV=5.9
			i(A) 16 53 +i(A) 16 55.5 e(A) 17 01 e(A) 19 09
26.	eP	A 16 00 17	<u>Near East Coast of Kamchatka</u>
			55.89 N 162.94 E H = 15 49 00.1 h = normal MAG=4.8 D = 71.19 Az = 341.2 (USCGS)
26.	eP	A 16 37 33	<u>Near East Coast of Kamchatka</u>
	e	A 37 40	55.92 N 162.93 E H = 16 26 13.7 h = 19 km MAG=4.7 D = 71.16 Az = 341.2 (USCGS) PV:1.4s 14.0nm MPV=4.9
26.	eiP	A 16 56 32	<u>Near East Coast of Kamchatka</u>
			55.96 N 163.06 E H = 16 45 15.1 h = normal MAG=4.9 D = 71.15 Az = 341.2 (USCGS) PV:1.5s 32.7nm MPV=5.2
26.	iP	A 17 00 12	<u>Off East Coast of Kamchatka</u>
	e	A 00 19	55.89 N 163.01 E H = 16 48 52.7 h = 21 km MAG=5.0 D = 71.20 Az = 341.2 (USCGS) PV:1.4s 32.6nm MPV=5.3

30

January 1969

Moxa

Day	Phase	h m s	Remarks
26.	ePKP	A 17 46 28	<u>Tonga Islands</u> 20.09 S 174.83 W
			H = 17 26 40.0 h = normal MAG=4.8 D = 149.08 Az = 352.0 (USCGS)
27.	ePKIKP	A 03 14(40)	<u>Kermadec Islands</u> 30.58 S 177.18 W
	ePKHKP	A 14(50)	H = 02 54 40.2 h = normal MAG=5.0
	ePKP2	A 15 12	D = 158.90 Az = 344.3 (USCGS) PKP2V:1.4s 23.3nm
27.	ePKP2	A 03 29 48	<u>Kermadec Islands Region</u>
	LmH	B 04 44.5	30.53 S 176.97 W
	LmV	B 45.4	H = 03 09 16.1 h = 24 km MAG=5.0 D = 158.9 Az = 345 (ISC) LmH:18.5s 1.0/um MLH=5.6 LmV:19s 0.7/um
27.	-iP	A 06 45 58	<u>East of Severnaja Zemlya</u>
	+ipP	A 46 07	80.81 N 121.88 E
	eS	C 52 35	H = 06 37 57.6 h = 37 km MAG=5.0
	e	E 52 45	D = 43.48 Az = 299.8 (USCGS)
	eSS	C 55 16	PV:2.2s 109.0nm MPV=5.2
			LmH:13.5s 1.4/um MLH=5.0 LmV:16s 1.5/um MLV=5.1
27.	+iPKP2	A 10 21 05	<u>Kermadec Islands</u> 30.94 S 179.66 W
			H = 10 01 05.7 h = 300 km MAG=4.9 (USCGS) D = 158.79 Az = 340 (ISC)
27.	eP	A 11 07 31	<u>Afghanistan-USSR Border Region</u>
			37.30 N 71.48 E H = 10 59 27.2 h = 49 km MAG=5.2 D = 43.93 Az = 307.5 (USCGS)
27.	eP	A 13 29 38	<u>West Caroline Islands</u> 8.76 N 137.73 E
	ePP	B 33 52	H = 13 15 24.4 h = 5 km MAG=5.5
	eSKS	C 40 25	D = 104.73 Az = 327.9 (USCGS)
	ePS	BC 43 00	LmH:17.5s 5.7/um MLH=6.2
	ePPS	C 43 55	LmV:17.5s 5.5/um MLV=6.2
	eiSS	BC 49 00	

31



January 1969

Moxa

Day	Phase	h m s	Remarks
ont. 27.	LmH B LmV B	14 28.7 28.7	
27.	ePKIKP A	18 43 33.5	<u>New Hebrides Islands</u> 13.17 S 166.91 E H = 18 24 23.0 h = 130 km MAG=5.1 D = 137.56 Az = 336.8 (USCGS)
27.	ePKP A eipPKP2 A	19 01 16.5 01 36.5	<u>New Hebrides Islands</u> 20.48 S 169.63 E H = 18 41 45.1 h = 46 km MAG=4.6 D = 145.25 Az = 335.3 (USCGS)
28.	ePKP A LmH C LmV C	00 47 08 01 51.0 58.2	<u>Samoa Islands</u> 14.85 S 173.45 W H = 00 27 31.2 h = 13 km MAG=5.2 D = 144.06 Az = 354.5 (USCGS) LmH:20s 0.3/um MLH=5.1 LmV:18s 0.5/um
28.	+iPKHKP A ePKP2 A	11 48 27 48 35	<u>Fiji Islands</u> 21.93 S 179.69 W H = 11 29 44.7 h = 640 km MAG=4.5 D = 150.00 Az = 345.5 (USCGS) PKHKPV:1.2s 24.4nm
28.	ePg A iSg A	21 26 38 27 07.5	<u>Germany</u> 50.39 N 8.0 E H = 21 25 56.3 h = 0 km D = 2.31 Az = 82 (ISC)
29.	e(P) A	08 54 00	<u>New Ireland</u> 4.69 S 153.21 E H = 08 34 51.3 h = 70 km MAG=4.6 D = 124.05 Az = 331.5 (USCGS)
29.	-iPKP A +iPKP2 A ipPKP B i A i A LmH B LmV B	18 04 09.5 04 11 04 20 04 24 04 40 19 16.6 16.6	<u>Tonga Islands</u> 17.20 S 171.57 W H = 17 44 31.1 h = normal MAG=6.0 D = 146.54 Az = 356.3 (USCGS) PKPV:0.9s 467.0nm LmH:17.5s 1.1/um MLH=5.6 LmV:18s 1.3/um

January 1969

Moxa

Day	Phase	h m s	Remarks
29.	ePKIKP A	19 49 32	<u>Santa Cruz Islands</u> 11.37 S 166.40 E H = 19 30 26.5 h = 153 km MAG=5.0 (USCGS) D = 135.69 (ISC) PKIKPV:1.2s 10.2nm
30.	eP A LmH C	02 47 23 03 33.5	<u>Talau Islands</u> 4.11 N 126.45 E H = 02 33 34.1 h = 68 km MAG=5.5 D = 102.23 Az = 323.8 (USCGS) PV:1.2s 10.2nm LmH:25s 0.4/um MLH(C)=(4.9)
30.	eP A iP2 A eiPP B eSKS B iS B eSS B LmH B LmV B	10 43 30 43 32 47 52 54 13 55 17 11 02 24 33.0 32.9	<u>Talau Islands</u> 4.81 S 127.44 E H = 10 29 40.4 h = 70 km MAG=5.9 D = 102.25 Az = 324.1 (USCGS) P2V:1.6s 76.9nm MP2V=6.3 PV(B):20s 11.2/um MPV(B)=7.2 LmH:20s 370.0/um MLH=7.9 LmV:22s 463.0/um MLV=8.0 e(B) 43 34 e(B) 43 40 i(B) 43 52
30.	eP A	15 12 19	<u>Southern Nevada</u> 37.05 N 116.03 W H = 15 00 00.0 h = 0 km MAG=4.8 D = 81.28 Az = 30.7 (USCGS) PV:1.3s 17.5nm MPV=5.0 Nuclear Explosion "WISE" 37°03'12" N 116°01'45" W (USAEC)
30.	eP A e(PP) A	17 33 29 37 32	<u>Talau Islands</u> 4.87 N 127.50 E H = 17 19 35.0 h = 72 km MAG=5.3 D = 102.3 (USCGS)
30.	eP A ePP B iSKS B LmH B LmV B	00 58 12 01 02 31 09 21 43.3 50.6	<u>North of Halmahera</u> 4.18 N 128.08 E H = 00 44 13.3 h = normal MAG=5.7 D = 103.14 Az = 324.2 (USCGS) PV:2.0s 42.7nm MPV=5.8 PV(B):14s 1.6/um MPV(B)=6.6 LmH:16.5s 13.8/um MLH=6.6 LmV:17s 11.5/um MLV=6.5

January 1969

Moxa

Day	Phase	h m s	Remarks
31.	-iP	A 04 21 39	<u>Near East Coast of Kamchatka</u> 53.48 N 158.67 E H = 04 10 26.3 h = 145 km MAG=5.2 D = 72.60 Az = 338.7 (USCGS) PV:1.1s 64.5nm MPV=5.7
31.	eiP LmH LmV	A 14 44 34 B 51.4 B 15 07.4	<u>Crete</u> 34.30 N 26.30 E H = 14 40 03.8 h = 34 km MAG=5.1 D = 19.53 Az = 331.1 (USCGS) LmH:16.5s 2.9/um MLH=4.7 LmV:17s 2.6/um MLV=4.8
31.	eiPKP iX	A 15 18 39.5 A 18 40.5	<u>Tonga Island</u> 15.45 S 175.02 W H = 14 59 34.3 h = 262 km MAG=5.4 D = 144.49 Az = 352.7 (USCGS) XV:1.4s 193.0nm
31.	eP	A 15 37 35	<u>Greece-Albania Border Region</u> 39.15 N 20.22 E H = 15 34 30.9 h = normal MAG=4.5 D = 13.00 Az = 335.0 (USCGS)
31.	ePKP eiPKP2 epPKP2	A 23 50 27.5 A 51 09 A 52 49.5	<u>South of Kermadec Islands</u> 32.09 S 179.58 E H = 23 31 16.2 h = 391 km MAG=5.2 D = 159.43 Az = 337.8 (USCGS) PKPV:1.6s 38.5nm PKP2V:1.4s 181.0nm

February 1969

Moxa

Day	Phase	h m s	Remarks
1.	ePKP	A 04 37 28	<u>Fiji Islands</u> 21.68 S 179.34 W H = 04 18 45.0 h = 616 km MAG=4.3 D = 149.84 Az = 346.1 (USCGS)
1.	LmH LmV	B 17 23.3 B 29.6	Probably <u>North of Halmahera</u> (USCGS) LmH:22s 1.4/um LmV:20s 1.5/um
2.	eP ePP eS iPPS iPPS LmV LmH	A 01 52 44 A 57 04 C 02 04 35 C 06 55 B 07 00 B 44.3 B 44.4	<u>North of Halmahera</u> 3.91 N 128.24 E H = 01 38 44.2 h = normal MAG=5.4 (USCGS) D = 103.4 PPV:3.0s 214.0nm MPPV=6.2 PPSH(B):15.5s 2.0/um LmV:16s 3.0/um MLV=5.9 LmH:16s 4.0/um MLH=5.8
2.	LmH	C 06 28.5	Probably <u>North of Halmahera</u> (USCGS) LmH(C):16s 0.5/um
2.	e e	A 20 06 25 A 06 30	<u>Mascarene Islands</u> 17.21 S 66.49 E H = 19 53 53.6 h = normal MAG=5.2 D = 82.91 Az = 328.3 (USCGS)
3.	ePKIKP ePKHKP ePKP2 epPKP i	A 08 10 05 A 10 14 A 10 29 A 12 30 A 12 35	<u>South of Fiji Islands</u> 25.82 S 178.13 E H = 07 51 25.4 h = 629 km MAG=5.3 D = 153.13 Az = 340.8 (USCGS) PKIKPV:1.8s 33.8nm
3.	ePKHKP ePKP2	A 08 32 36 A 32 49	<u>South of Fiji Islands</u> 25.62 S 178.07 E H = 08 13 44.2 h = 610 km MAG=4.9 D = 152.92 Az = 340.9 (USCGS)
3.	ePKIKP ePKHKP eiPKP2 epPKHKP epPKP2	A 08 36 52 A 37 01 A 37 16 A 39 36 A 39 50	<u>South of Fiji Islands</u> 25.74 S 178.27 E H = 08 18 14.7 h = 654 km MAG=5.3 D = 153.10 Az = 341.0 (USCGS)

February 1969

Moxa

Day	Phase	h m s	Remarks
3.	iP	A 09 08 50.5	<u>Kurile Islands</u> 49.38 N 155.60 E H = 08 57 06.8 h = normal MAG=5.4 D = 75.70 Az = 337.3 (USCGS) PV:1.2s 32.5nm MPV=5.3
3.	e	A 19 19 31	<u>North of Halmahera</u> 4.37 N 128.08 E
X	ePP	B 19 44	H = 19 01 29.4 h = normal MAG=5.2 (USCGS)
	e	B 24 50	D = 103.0
	e(S)	C 27 00	LmH:19s 2.5/um MLH=5.8
	e(PPS)	C 29 40	LmV:18s 1.1/um MLV=5.4
	LmH	B 20 00.4	
	LmV	B 07.8	
3.	eP	B 21 55 34	<u>Talau Islands</u> 4.90 N 127.38 E
	eiP	A 55 36	H = 21 41 42.0 h = normal MAG=6.1
	ePP	B 58 46	D = 102.14 Az = 324.1 (USCGS)
	iPPP	B 22 02 00	PV(A):3.0s 303.0nm MPV=6.4
	eSKS	B 06 09	LmH:25s 45.2/um MLH=6.9
	iS	B 07 14	LmV:19.5s 13.6/um MLV=6.5
	iPS	B 08 45	
	eiPPS	B 09 32	
	eSS	B 14 10	
	LmH	B 36.0	
	LmV	B 48.4	
4.	ePP	A 01 56 40	<u>Northern Celebes</u> 0.63 S 121.74 E
	e	B 56 48	H = 01 38 26.2 h = normal MAG=4.8 (USCGS)
	e	B 02 00 04	D = 102.70
	eS	B 04 08	MPPV:2.5s 61.5nm MPPV=5.6
	e	B 05 32	LmH:18s 6.1/um MLH=6.2
	eSS	B 11 30	LmV:17s 4.0/um MLV=6.0
	LmH	B 47.3	
	LmV	B 47.4	
4.	eiP	A 04 23 48	<u>Off Coast of Northern Peru</u>
	e	B 24 00	8.23 S 80.16 W
	ePP	B 27 56	H = 04 10 13.3 h = 16 km MAG=6.0
	e	A 28 35	D = 97.42 Az = 39.9 (USCGS)

36

February 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
4.	eiSKS	B 04 34 20	PV:1.8s 71.0nm MPV=6.0
	-iSKS	C 34 24	LmV:19s 3.5/um MLV=5.9
	+iS	C 35 10	LmH:18.5s 5.4/um MLH=6.1
	eSS	C 41 48	
	eSSS	C 45 20	
	LmV	B 05 06.6	
	LmH	B 08.9	
4.	ePKIKP	A 11 47 13	<u>Fiji Islands</u> 19.78 S 178.90 W
	eiPKHKP	A 47 22.5	H = 11 28 44.5 h = 623 km MAG=5.0
	ePKP2	A 47 27.5	D = 148.10 Az = 347.3 (USCGS) PKIKPV:1.4s 46.5nm
5.	eP	A 09 24 28	<u>Crete</u> 34.49 N 24.67 E
			H = 09 20 13.0 h = 56 km MAG=4.3
			D = 18.74 Az = 333.4 (USCGS)
			PV:1.3s 15.3nm MPV=4.0
5.	LmH	B 11 35.8	Probably <u>North of Halmahera</u> (USCGS)
	LmV	B 42.3	
5.	eP	A 23 55 33	<u>Central Mid-Atlantic Ridge</u>
	e	A 56 24	0.74 N 29.66 W
	eS	C 24 04 55	H = 23 45 21.4 h = normal MAG=4.9
	LmH	B 20.0	D = 60.77 Az = 28.8 (USCGS)
	LmV	B 20.3	PV:1.6s 33.0nm MPV=5.2 LmV:20s 1.0/um MLV=5.0
6.	eP	A 08 47 46	<u>Hokkaido, Japan</u> 42.35 N 142.42 E
			H = 08 35 50.3 h = normal MAG=5.1
			D = 77.93 Az = 330.5 (USCGS)
6.	eP	A 14 53 38	<u>Alaska Peninsula</u> 55.19 N 160.40 W
	e	A 53 48	H = 14 42 01.8 h = normal MAG=4.7
			D = 74.33 Az = 5.3 (USCGS)
7.	LmH	C 01 20.0	Probably <u>Western Iran</u> (USCGS)
	LmV	C 26.3	LmH(C):42s 1.0/um LmV(C):67s 3.2/um

37

February 1969

Moxa

Day	Phase	h m s	Remarks	
7.	ePKP e	A A	03 24 10 24 21	<u>Loyalty Islands</u> 20.09 S 168.54 E H = 03 04 37.2 h = normal D = 144.47 Az = 334.6 (USCGS)
7.	e	A	21 38 13	<u>Near Coast of Northern California</u> 40.37 N 124.50 W H = 21 25 45.4 h = 6 km MAG=5.2 D = 81.55 Az = 26.5 (USCGS)
8.	eP	A	23 30 32	<u>Southern Iran</u> 29.88 N 50.95 E H = 23 23 34.9 h = 52 km MAG=5.1 D = 35.91 Az = 316.5 (USCGS) PV:1.2s 18.3nm MPV=4.8
9.	eP LmH	A B	15 46 16 16 18.5	<u>Burma-China Border Region</u> 21.65 N 101.29 E H = 15 34 44.4 h = normal MAG=5.0 D = 73.37 Az = 318.4 (USCGS) PV:1.6s 22.0nm MPV=5.0 LmH:19s 0.9 $\mu$ m MLH=5.1
9.	e LmH	A C	18 15 54.5 58.5	<u>Near West Coast of Columbia</u> 5.56 N 77.47 W H = 18 03 07.7 h = normal MAG=4.5 D = 85.16 Az = 39.7 (USCGS)
9.	eP e	A A	18 37 27 37 32	<u>Northwest Africa</u> 5.55 N 0.12 W H = 18 29 04.0 h = normal MAG=4.9 D = 46.01 Az = 10.4 (USCGS) PV:1.4s 18.6nm MPV=4.9
9.	+iPn e ePg e eSg eSg LmH LmV	A A A B A B B B B	23 09 46 10 07 10 13 11 10 11 15 11 16 12.0 12.1	<u>Hungary</u> 47.66 N 18.15 E H = 23 08 27.7 h = normal MAG=4.6 D = 5.22 Az = 307.3 (USCGS) PV:0.9s 27.2nm LmH:9s 1.0 $\mu$ m MLH=3.5 LmV:9.5s 1.0 $\mu$ m

38

February 1969

Moxa

Day	Phase	h m s	Remarks	
10.	eP LmH LmV	A B E	14 33 46 15 15.0 15.0	<u>Talau Islands</u> 2.70 N 125.30 E H = 14 19 52.3 h = 57 km MAG=5.1 D = 102.68 Az = 323.3 (USCGS) LmH:19s 0.6 $\mu$ m MLH=5.1 LmV:16s 0.4 $\mu$ m MLV=5.1
10.	eiP	A	21 59 55	<u>Kurile Islands</u> 44.21 N 148.54 E H = 21 47 55.9 h = normal MAG=5.1 D = 78.40 Az = 333.6 (USCGS) PV:1.2s 26.4nm MPV=4.2
10.	-iPKIKP -i iX ipPKP esPKP i +isPP -iPSKS -eiPPS eiSS eSSS eSSSS	A A A A C C C C C C C C C	23 16 38.5 16 39.5 16 40 19 12 20 09.5 20 12 23 48 30 50 33 35 38 45 44 50 48 55	<u>South of Fiji Islands</u> 22.71 S 178.61 E H = 22 58 05.8 h = 673 km MAG=6.0 D = 150.32 Az = 343.2 (USCGS) XV:3.1s 2360.0nm
10.	iPKHKP	A	23 21 37	<u>South of Fiji Islands</u> 23.14 S 178.80 E H = 23 02 57.5 h = 670 km MAG=5.8 (USCGS) D = 151.0
11.	+iP +iP iX ePP eS eS eSS eSS LmH LmV	B A A C C B C B B B B	22 17 19 17 20 17 22.5 19 12 24 10 24 12 27 12 27 18 39.5 39.5	<u>Kirgiz-Sinkiang Border Region</u> 41.35 N 79.21 E H = 22 08 54.7 h = normal MAG=5.8 D = 46.35 Az = 305.6 (USCGS) PV(A):1.4s 182.0nm MPV(A)=6.0 XV:1.1s 504.0nm MXV =6.6 LmH:9.5s 57.0 $\mu$ m MLH=6.7 LmV:11s 51.4 $\mu$ m MLV=6.8

39

February 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP A	00 31 03.5	<u>Kirgiz-Sinkiang Border Region</u> 41.28 N 79.33 E H = 00 22 37.4 h = normal MAG=4.9 D = 46.47 Az = 305.6 (USCGS) PV:1.3s 21.8nm MPV=5.1
12.	iP A e A LmH C	15 51 11 51 16 16 23.5	<u>Near East Coast of Kamchatka</u> 55.86 N 162.92 E H = 15 39 54.6 h = 44 km MAG=5.1 D = 71.21 Az = 341.2 (USCGS) PV:1.8s 67.5nm MPV=5.5
12.	-iPKHKP A ePKP2 A	18 59 38 59 47.5	<u>South of Fiji Islands</u> 22.70 S 179.36 W H = 18 40 38.3 h = 470 km MAG=4.6 D = 150.81 Az = 345.6 (USCGS) PKHKPV:1.8s 27.0nm
13.	+iP A e A	01 47 49 48 01	<u>Fox Islands, Aleutian Islands</u> 52.16 N 169.91 W H = 01 35 52.4 h = 16 km MAG=5.1 D = 77.56 Az = 359.0 (USCGS) PV:1.0s 21.7nm MPV=5.2
13.	ePKP2 A	10 23 28	<u>Kermadec Islands Region</u> 30.15 S 178.01 W H = 10 02 58.0 h = 23 km MAG=4.9 (USCGS) D = 158.2
13.	eP A e A	10 36 23 36 31.5	<u>Mindanao, Philippine Islands</u> 4.97 N 126.89 E H = 10 22 31.1 h = normal MAG=4.9 D = 101.80 Az = 324.0 (USCGS)
13.	iP A e A LmH B LmV B	11 19 54 20 02 28.7 31.3	<u>Western Pakistan</u> 24.97 N 62.89 E H = 11 11 25.5 h = normal MAG=5.2 D = 46.75 Az = 317.0 (USCGS) PV:1.1s 24.2nm MPV=5.1 LmH:16s 1.4/um MLH=5.0 LmV:18s 1.2/um MLV=5.0

40

February 1969

Moxa

Day	Phase	h m s	Remarks
13.	eP A	15 13 42	<u>Mediterranean Sea</u> 34.70 N 22.64 E H = 15 09 33.1 h = normal MAG=4.6 D = 17.84 Az = 336.6 (USCGS)
14.	LmH B	01 39.2	Probably <u>Off Coast of Northern Peru</u> (USCGS) LmH:18s 0.9/um
14.	eiPKP A e A e A	03 23 40 23 45 23 51	<u>Tonga Islands</u> 16.13 S 172.97 W H = 03 04 04.1 h = normal MAG=5.3 D = 145.37 Az = 354.9 (USCGS) PKPV:1.8s 115.0nm
14.	eP A	13 23 36	<u>Near Coast of Guerrero, Mexico</u> 16.60 N 99.11 W H = 13 10 36.9 h = 18 km MAG=5.1 D = 89.83 Az = 36.5 (USCGS)
14.	iPg A iSg A	14 43 29.3 43 44	<u>Dornreichenbach, GDR</u> , explosion 51°22'16" N 12°53'30" E yield 7.35 to D = 1.0
15.	ePKHKP A ePKP2 A epPKP A	07 10 04 10 08.5 10 48	<u>Fiji Islands</u> 20.48 S 175.97 W H = 06 50 34.1 h = 160 km MAG=4.6 D = 149.30 Az = 350.5 (USCGS) PKHKPV:1.7s 36.4nm
15.	eP A i A ePg A iSn A	08 56 19.5 56 22 56 54 57 30	<u>Italy</u> 43.9 N 11.6 E H = 08 54 42 (BCIS) D = 6.8 PV:1.2s 12.2nm
15.	ePKHKP A	09 02 28	<u>South of Fiji Islands</u> 24.09 S 179.97 W H = 08 43 34.4 h = 550 km MAG=5.0 D = 152.00 Az = 344.2 (USCGS)
15.	ePKIKP A e A e A	14 08 06 08 16 10 51	<u>New Hebrides Islands</u> 13.61 S 167.17 E H = 13 49 13.6 h = 205 km MAG=5.3 D = 138.05 Az = 336.8 (USCGS)

41

February 1969

Moxa

Day	Phase	h m s	Remarks
15.	ePKHKP A	15 21 56.5	<u>South of Fiji Islands</u> 25.96 S 178.10 E H = 15 03 12.3 h = 680 km MAG=4.6 D = 153.25 Az = 340.7 (USCGS)
	ePKP2 A	22 12	
15.	eP A	24 07 35	<u>Kirgiz-Sinkiang Border Region</u> 41.47 N 79.46 E H = 23 59 10.6 h = normal MAG=5.0 D = 46.43 Az = 305.5 (USCGS) PV:1.1s 8.1nm MPV=4.7
	epP A	07 45	
	esP A	07 49	
	e A	09 51	
	LmH C	24.5	
	LmV C	28.3	
16.	e A	04 36 33	<u>Tonga Islands</u> 16.74 S 173.67 W H = 04 16 41.9 h = normal MAG=4.1 D = 145.91 Az = 354.0 (USCGS)
16.	ePKP A	11 20 35	<u>Fiji Islands</u> 18.30 S 178.22 W H = 11 02 02.2 h = 650 km MAG=4.1 D = 146.78 Az = 348.5 (USCGS)
16.	e A	15 21 28	<u>Mid-Indian Rise</u> 16.89 S 67.02 E H = 15 08 58.9 h = normal MAG=5.1 D = 82.91 Az = 328.1 (USCGS)
17.	eP A	00 57 07	<u>North of Halmahera</u> 3.81 N 128.43 E H = 00 42 59.2 h = 14 km MAG=5.6 D = 103.64 Az = 324.2 (USCGS) PV:2.4s 96.8nm MPV=6.2 LmV:17.5s 9.3/um MLV=6.4 LmH:19s 10.4/um MLH=6.4
	ePP C	01 01 16	
	e A	01 24	
	eS C	08 45	
	ePPS C	11 15	
	e C	12 20	
	eSS C	16 00	
	eSSS C	19 50	
	LmV B	48.8	
	LmH B	49.8	
17.	eP A	07 41 18.5	<u>Honshu, Japan</u> 37.49 N 140.74 E H = 07 29 07.3 h = 86 km MAG=4.8 D = 81.51 Az = 330.0 (USCGS)
	epP A	41 38	

42

February 1969

Moxa

Day	Phase	h m s	Remarks
17.	eP A	09 16 12	<u>Eastern Mediterranean Sea</u> 33.93 N 25.19 E H = 09 11 43.4 h = 13 km MAG=4.7 D = 19.44 Az = 333.3 (USCGS)
	e A	16 17	
	e A	16 24.5	
17.	ePg A	16 20(53)	<u>Peißenberg, GFR</u> 47 3/4 N 11.0 E H = 16 19 58 (BCIS) 47°50' N 11°06' E (FUR) D = 2.9
	eSn A	21 18	
	iSg A	21 29.5	
18.	ePKIKP A	05 34 35	<u>South of Fiji Islands</u> 24.02 S 176.70 W H = 05 14 55.9 h = 99 km MAG=5.4 D = 152.64 Az = 348.4 (USCGS)
	ePKHKP A	34 42.5	
	e A	34 48	
	ePKP2 A	34 53	
	e A	35 08	
	e A	35 40	
18.	eiP A	21 01 51.5	<u>Fiji Islands</u> 17.85 S 178.59 W H = 20 43 13.6 h = 569 km MAG=5.2 D = 146.28 Az = 348.3 (USCGS)
	ei A	01 54	
	e A	04 08	
19.	ePKHKP A	03 41 34	<u>South of Fiji Islands</u> 22.60 S 176.52 W H = 03 21 59.3 h = 162 km MAG=4.8 D = 151.29 Az = 349.2 (USCGS)
20.	ePKHKP A	03 18 59	<u>Tonga Islands</u> 20.12 S 173.91 W H = 02 59 14.0 h = normal MAG=5.3 D = 149.23 Az = 353.1 (USCGS) PKHKPV:2.2s 131.0nm LmV:20s 0.3/um
	eiPKP2 A	19 04	
	LmH C	04(26)	
	LmV C	34.0	
20.	eP A	10 09 34	<u>North of Halmahera</u> 3.54 N 128.19 E H = 09 55 33.8 h = 33 km MAG=5.7 D = 103.71 Az = 324.1 (USCGS) LmH:16s 9.5/um MLH=6.4 LmV:17.5s 12.0/um MLV=6.5
	ePP B	14 00	
	eSKS B	20 20	
	eiS B	21 20	
	esS B	21 44	
	ePPS B	23 45	
	eSS B	28 35	

43

February 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
20.	eSSS B	10 32 20	
	LmH B	11 07.8	
	LmV B	10.5	
20.	+eP A	10 44 18	<u>North of Halmahera</u> 3.48 N 128.44 E
	ePP B	48 44	H = 10 30 22.1 h = 77 km MAG=6.0
	LmH B	11 37.8	D = 103.90 Az = 324.2 (USCGS)
	LmV B	37.9	PV:2.0s 103.0nm MPV=6.2 LmH:17.5s 9.4/um LmV:17s 10.4/um
20.	ePKP A	13 20 47	<u>Fiji Islands</u> 19.85 S 177.67 W
			H = 13 02 04.1 h = 579 km MAG=5.0
			D = 148.40 Az = 348.7 (USCGS)
			PKPV:1.2s 30.5nm
20.	e A	17 12 23	<u>North of Halmahera</u> 3.66 N 128.20 E
	LmH B	58.8	H = 16 58 13.8 h = 48 km MAG=5.3
	LmV B	18 05.7	D = 103.62 Az = 324.1 (USCGS)
			LmH:17.5s 5.7/um MLH=6.2 LmV:17s 5.4/um MLV=6.2
21.	eP A	08 52 09.5	<u>Southern Alaska</u> 60.74 N 158.88 W
			H = 08 41 06.1 h = normal MAG=4.2
			D = 68.70 Az = 6.5 (USCGS)
21.	eP A	18 43 09	<u>Greece</u> 39.25 N 22.03 E
	e A	43 16	H = 18 39 56.6 h = 41 km MAG=4.6
	LmH C	49.7	D = 13.56 Az = 330.6 (USCGS)
	LmV C	49.7	PV:0.8s 9.6nm LmV:18s 0.6/um
21.	-iPKP A	21 06 03	<u>Tonga Islands</u> 16.14 S 173.05 W
	i A	06 15	H = 20 46 27.1 h = 38 km MAG=5.4
			D = 145.38 Az = 354.8 (USCGS)
			PV:1.4s 93.0nm

44

February 1969

Moxa

Day	Phase	h m s	Remarks
22.	eP A	10 01 01	<u>Kodiak Island</u> 56.80 N 153.86 W
			H = 09 49 40.2 h = 66 km MAG=4.2
			D = 72.25 Az = 9.7 (USCGS)
22.	ePKP2 A	12 34 30.5	<u>South of Fiji Islands</u> 22.42 S 177.07 W
			H = 12 14 57.9 h = 239 km MAG=4.4
			D = 151.02 Az = 348.6 (USCGS)
22.	ePKIKP A	18 30 36	<u>South of Fiji Islands</u> 24.80 S 177.00 W
	ePKHKP A	30 44	H = 18 11 01.2 h = 138 km MAG=5.0
	ePKP2 A	30 55.5	D = 153.36 Az = 347.7 (USCGS)
			PKHKPV:1.4s 55.8nm
22.	ePg A	23 16 15.5	<u>Wurtemberg, GFR</u> 48.7 N 9.1 E
	iSg A	16 46	H = 23 15 24 (BCIS)
			D = 2.5
23.	eP AB	00 51 00	<u>Celebes</u> 3.12 S 118.87 E
	ePP A	55 10	H = 00 36 56.7 h = 13 km MAG=6.1
	iPP C	55 14	D = 103.31 Az = 321.3 (USCGS)
	iS C	01 02 36	PV(B):10s 1.7/um MPV=6.8
	eiPS C	04 16	LmH:22s 65.1/um MLH=7.1
	iSS C	10 00	LmV:19.5s 40.5/um MLV=7.0
	e A	14 57	
	e A	15 16	
	LmH B	37.1	
	LmV B	43.1	
23.	ePP A	06 22 00	<u>Celebes</u> 3.42 S 119.02 E
	eSS C	36 50	H = 06 03 47.0 h = 7 km MAG=5.3 (USCGS)
	LmV B	07 14.3	D = 103.7
	LmH B	15.2	PPV:2.3s 42.7nm MPPV=5.5 LmV:18s 1.2/um MLV=5.5 LmH:17.5s 1.7/um MLH=5.6
24.	ePKIKP A	00 27 20	<u>Tanimbar Islands</u> 6.16 S 131.03 E
	ePP B	28 15	H = 00 08 45.6 h = 38 km MAG=5.8
	e C	35 44	D = 113.15 Az = 322.9 (USCGS)
	eSP B	37 28	LmH:19s 2.0/um MLH=5.7

45

February 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
24.	eiSP C	00 37 35	LmV:20s 1.4/um MLV=5.6
	eSFP C	38 44	
	eSS C	43 53	
	iSSS C	47 55	
	LmH B	01 15.0	
	LmV B	22.0	
24.	LmH C	17 41.0	Probably <u>North of Halmahera</u> (USCGS)
24.	eP A	22 56 15	<u>Northern Colombia</u> 6.85 N 72.94 W H = 22 44 14.0 h = 150 km MAG=5.0 D = 81.30 Az = 39.9 (USCGS)
25.	eP A	01 39 10	<u>Arabian Sea</u> 14.34 N 50.34 E H = 01 30 08.0 h = normal D = 51.08 Az = 324.8 (USCGS)
25.	eP A	02 14 15.5	<u>Honduras</u> 15.27 N 87.54 W H = 02 01 44.0 h = 13 km MAG=4.8 D = 84.03 Az = 39.2 (USCGS)
25.	ePKIKP A	04 11 10	<u>South of Kermadec Islands</u> 32.39 S 179.98 E
	ePKP2 A	11 46	H = 03 51 45.6 h = 325 km MAG=5.1 (USCGS) D = 159.9
25.	eiP A	07 51 31	<u>Honduras</u> 15.23 N 87.47 W
	-ei A	51 35	H = 07 39 00.6 h = 15 km MAG=5.4
	LmH B	08 27.5	D = 84.01 Az = 39.2 (USCGS)
	LmV B	27.5	LmH:20s 0.7/um MLH=5.0 LmV:20s 0.6/um MLV=5.0
25.	ePKP2 A	10 55 34	<u>South of Fiji Islands</u> 25.76 S 176.28 W H = 10 35 26.3 h = 55 km MAG=5.0 D = 154.42 Az = 348.3 (USCGS) PKP2V:2.0s 34.2nm

46

February 1969

Moxa

Day	Phase	h m s	Remarks
25.	eP A	13 16 15	<u>South Atlantic Ridge</u> 19.55 S 12.17 W H = 13 04 45.8 h = normal D = 72.97 Az = 15.6 (USCGS)
25.	eP A	14 17 27	<u>South Atlantic Ridge</u> 19.26 S 12.13 W
	eX A	17 29	H = 14 06 00.0 h = normal MAG=5.3 D = 72.67 Az = 15.6 (USCGS) XV:2.4s 138.0nm MXV=5.7
25.	e A	15 01 40	<u>Austria</u> 47.3 N 15.4 E
	e A	02 04	H = 14 59 53.5 (BCIS) D = 4.1
25.	eF A	16 36 23	<u>Svalbard</u> 76.42 N 10.41 E
	i A	36 27.5	H = 16 30 50.4 h = normal MAG=4.4
	e A	36 33.5	D = 25.88 Az = 178.2 (USCGS) PV:1.4s 18.6nm MPV=4.5
25.	eP A	16 43 50	<u>Off East Coast of Kamchatka</u>
	e A	44 08	53.89 N 161.30 E
	e A	44 15	H = 16 32 25.2 h = 53 km MAG=4.7 D = 72.77 Az = 340.3 (USCGS) PV:1.0s 9.8nm MPV=4.9
26.	+iPn A	01 28 45.5	<u>Germany</u> 48.36 N 9.06 E
	iPg A	28 51	H = 01 28 01.3 h = 27 km MAG=4.4
	i B	29 24	D = 2.83 Az = 35.1 (USCGS)
	iSg B	29 32	LmH:5s 20.3/um MLH=4.7
	LmH B	29.7	LmV:5s 11.7/um
	LmV B	29.9	
26.	eP A	12 39 58	<u>Dodecanese Islands</u> 36.63 N 27.17 E H = 12 35 47.8 h = 27 km MAG=4.8 D = 17.92 Az = 326.3 (USCGS) PV:1.0s 7.9nm MPV=3.8
27.	ePg A	15 45 26	Explosion
	eSg A	45 43	49°49.5' N 13°10' E yield 3 to (PRU) D = ca. 1.3

47



February 1969

Moxa

Day	Phase	h m s	Remarks
27.	ePKP	A 19 56 23	<u>Tonga Islands</u> 18.44 S 175.25 W H = 19 36 55.4 h = 145 km MAG=4.5 D = 147.41 Az = 351.9 (USCGS)
28.	+iP Pm iS	A 02 45 24 B 46 00 St 49 25	<u>North Atlantic Ocean</u> 36.01 N 10.57 W H = 02 40 32.5 h = 22 km MAG=7.3 D = 21.67 Az = 40.6 (USCGS) PmH(B):23s 1550.0 $\mu$ m MPH=8.1 St - Strain/L
28.	+iP	A 04 30 26	<u>North Atlantic Ocean</u> 36.23 N 10.48 W H = 04 25 36.9 h = normal MAG=5.7 D = 21.45 Az = 40.9 (USCGS) PV:1.3s 763.0nm MPV=5.9
28.	e e iSg	A 06 00 40 A 01 05 A 01 07.5	Explosion 49°08.7' N 13°45.2' E yield 18 to (PRU)
28.	eP	A 10 04 41	<u>North Atlantic Ocean</u> 35.94 N 10.83 W H = 09 59 48.0 h = 25 km MAG=4.6 D = 21.85 Az = 40.8 (USCGS) PV:1.8s 43.9nm MPV=4.6
28.	iPg iSg	A 11 50 19.5 A 50 40.5	Explosion 50°33.8' N 14°00.4' E yield 14.8 to (PRU) D = ca. 1.6
28.	eP	A 13 58 43.5	<u>Near East Coast of Kamchatka</u> 51.66 N 158.03 E H = 13 47 11.7 h = 58 km MAG=5.0 D = 74.16 Az = 338.5 (USCGS) PV:1.1s 18.2nm MPV=5.0
28.	eP	A 15 25 31	<u>North Atlantic Ocean</u> 35.87 N 10.75 W H = 15 20 38.6 h = 27 km MAG=4.2 D = 21.86 Az = 40.6 (USCGS)

48

February 1969

Moxa

Day	Phase	h m s	Remarks
28.	eP	A 18 29 30	<u>North Atlantic Ocean</u> 36.23 N 10.96 W H = 18 24 39.0 h = normal MAG=4.2 D = 21.70 Az = 41.4 (USCGS)

49

March 1969

Moxa

Day	Phase	h m s	Remarks
1.	eP	A 10 49 58	<u>Kurile Islands</u> 46.80 N 153.65 E H = 10 38 03.4 h = normal MAG=4.7 D = 77.55 Az = 336.4 (USCGS)
1.	eP	A 11 01 02	<u>Kurile Islands</u> 47.02 N 153.71 E H = 10 49 13.4 h = 82 km MAG=4.1 (USCGS) D = 77.3
1.	e	A 16 47 22	<u>Germany</u> 48.3 N 9.0 E H = 16 45 48 (BCIS) D = 3.1
1.	ePg	A 20 28 11	<u>Germany</u> 48.23 N 8.75 E
	e	A 28 15.5	H = 20 27 17.6 h = 12 km
	eiSg	A 28 47	D = 3.06 Az = 36.6 (USCGS)
1.	eSg	A 20 31 22	<u>Germany</u> 48.3 N 9.0 E H = 20 29 50 (BCIS) D = 3.1
1.	eSg	A 20 33 02.5	<u>Germany</u> 48.3 N 9.0 E H = 20 31 30 (BCIS) D = 3.1
1.	ePKP	A 21 23 05.5	<u>New Hebrides Islands</u> 19.16 S 169.14 E H = 21 03 50.2 h = 157 km MAG=4.5 D = 143.87 Az = 335.6 (USCGS) PKPV:1.1s 20.2nm
2.	e	A 13 08 44	<u>Near Islands/Aleutian Is.</u> 51.40 N 174.71 E H = 12 56 43.7 h = 53 km MAG=4.5 D = 77.32 Az = 349.1 (USCGS)
2.	eP	A 22 36 20.5	<u>Mindoro/Philippine Islands</u> 12.91 N 120.80 E H = 22 23 17.4 h = 80 km MAG=5.0 D = 91.87 Az = 323.0 (USCGS)

50

March 1969

Moxa

Day	Phase	h m s	Remarks
3.	eP	A 01 02 48	<u>Turkey</u> 40.12 N 27.43 E
	i	A 02 50	H = 00 59 10.5 h = 4 km MAG=5.6
	i	A 02 56	D = 15.27 Az = 318.8 (USCGS)
	e	A 02 58	PV:2.0s 188.0nm
	eiS	C 05 38	LmH:14s 23.6/um MLH=5.5
	LmH	B 08.2	LmV:12s 14.3/um MLV=5.5
	LmV	B 09.8	
3.	eiP	A 06 29 46	<u>Tibet India Border Region</u> 30.17 N 79.92 E H = 06 20 21.8 h = 20 km MAG=5.3 D = 53.88 Az = 312.9 (USCGS) PV:1.3s 24.1nm MPV=5.1
3.	eP	A 15 01 08	<u>Off East Coast of Kamchatka</u>
	eS	C 10 42	51.62 N 159.26 E
	LmH	B 39.8	H = 14 49 28.0 h = 12 km MAG=5.3
	LmV	B 39.8	D = 74.48 Az = 339.3 (USCGS) PV:3.0s 606.0nm MPV=6.1 LmH:19.5s 6.6/um MLH=5.9 LmV:19.5s 8.9/um MLV=6.1
3.	ePKP	A 16 49 52.5	<u>Samoa Islands</u> 16.92 S 172.54 W
	ei	A 50 20	H = 16 30 13.8 h = normal MAG=5.1
	LmH	B 17 56.5	D = 146.19 Az = 355.2 (USCGS)
	LmV	B 18 05.7	PKPV:2.6s 173.0nm LmH:20s 1.1/um MLH=5.6
3.	LmH	C 21 20.0	Probably <u>North of Halmahera</u> (USCGS) LmH(C):23s 0.8/um
4.	eiP	A 01 51 47	<u>Turkey</u> 36.96 N 31.08 E H = 01 47 25.5 h = 109 km MAG=5.0 D = 19.52 Az = 320.6 (USCGS) PV:1.3s 205.0nm MPV=5.3
4.	ePKHKP	A 06 42 17	<u>South of Fiji Islands</u> 23.82 S 179.13 E
	ePKP2	A 42 28.5	H = 06 23 22.8 h = 534 km MAG=4.7 D = 151.52 Az = 343.2 (USCGS) PKHKPV:1.2s 12.2nm

51

March 1969

Moxa

Day	Phase	h m s	Remarks
4.	ePKIKP A	20 29 46	<u>New Britain Region</u> 5.07 S 152.45 E H = 20 10 51.9 h = 62 km MAG=5.1 D = 124.02 Az = 331.0 (USCGS)
5.	ePKP A	00 39 12	<u>Tonga Islands</u> 16.94 S 173.70 W H = 00 19 32.8 h = normal MAG=4.3 D = 146.11 Az = 353.9 (USCGS) PKPV:1.8s 60.5nm
5.	eP i A	03 02 25.5 02 27.2	<u>North Atlantic Ocean</u> 35.94 N 10.81 W H = 02 57 33.5 h = normal MAG=4.7 D = 21.85 Az = 40.7 (USCGS)
5.	eP A	09 04 47	<u>Mindanao/Philippine Islands</u> 9.91 N 125.83 E H = 08 51 20.6 h = 66 km MAG=5.1 D = 97.21 Az = 324.2 (USCGS)
5.	eP A	14 06 03	<u>North of Halmahera</u> 4.01 N 128.16 E H = 13 52 04.9 h = 48 km MAG=5.7 D = 103.31 Az = 324.2 (USCGS) PV:1.6s 33.0nm MPV=5.8 LmH:18s 4.7/um MLH=6.0 LmV:22s 5.1/um MLV=6.0
	e A	06 13	
	e A	09 14	
	ePP A	10 15	
	e B	10 20	
	ePPP C	12 38	
	eSKS C	16 45	
	eS C	17 50	
	eiSPP C	20 16	
	eSS C	25.3	
	LmH B	51.3	
	LmV B	55.5	
5.	eP A	14 44 52.5	<u>Turkey</u> 40.04 N 27.46 E H = 14 41 16.1 h = normal MAG=4.7 D = 15.34 Az = 318.9 (USCGS)
5.	iP A	19 41 11.3	<u>Hindu Kush</u> 36.43 N 70.75 E H = 19 33 23.0 h = 208 km MAG=5.9 D = 44.00 Az = 308.1 (USCGS)
	iX A	41 12.8	
	epP A	41 56	

52

March 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
5.	eisP A	19 42 18	PV:2.4s 1000.0nm MPV=5.9
	ePP C	43 00	XV:2.4s 1420.0nm MLV=6.0
	isPP C	44 00	
	eS C	47 20	
	eisS C	48 44	
	eSS C	50 30	
6.	+iP A	19 28 34.3	<u>North Atlantic Ocean</u> 36.04 N 10.58 W H = 19 23 44.1 h = normal MAG=4.8 D = 21.65 Az = 40.7 (USCGS) PV:1.2s 73.2nm MPV=5.0 LmH:19s 3.2/um MLH=4.8
	LmH B	36.2	
7.	eiPKP A	02 03 38.5	<u>Tonga Islands</u> 17.80 S 175.39 W H = 01 44 26.7 h = 264 km MAG=4.5 D = 146.76 Az = 351.9 (USCGS) PKPV:1.1s 24.2nm
7.	+iP A	08 34 46.3	<u>Eastern Kazakh, SSR</u> 49.81 N 78.15 E H = 08 26 57.5 h = 0 km MAG=5.5 D = 41.26 Az = 297.7 (USCGS) PH:0.9s 120.0nm MPH=5.8 PV:0.9s 198.5nm MPV=5.8 Probably underground explosion
	ePn A	36 17.5	
7.	ePg A	14 05 20	<u>Hilders/Rhön, explosion</u>
	eSg A	05 33	50°32.51' N 10°02.51' E H = 14 05 00.89 yield 10.75 to (Hannover) D = 1.0
8.	eP A	03 40 49	<u>North Atlantic Ocean</u> 35.91 N 10.39 W H = 03 35 59.9 h = normal MAG=4.2 D = 21.65 Az = 40.3 (USCGS) PV:1.3s 13.8nm MPV=4.2
8.	eP A	10 31 49	<u>Hokkaido/Japan Region</u> 41.29 N 139.62 E H = 10 20 09.3 h = 169 km MAG=5.7 D = 77.79 Az = 329.1 (USCGS)
	e A	32 29	
	epP A	32 35	

53

March 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
8.	e ePP	A 10 34 29.5 A 34 47	PV:1.0s 15.7nm MPV=4.7
8.	eiPKP	A 18 28 21	<u>Tonga Islands</u> 15.59 S 173.68 W H = 18 09 01.8 h = 154 km MAG=5.1 D = 144.77 Az = 354.2 (USCGS) PKPV:1.4s 60.4nm
8.	ePg eSg	A 23 43 45 A 44 17	<u>Swabian Jura/GFR</u> 48.3 N 9.0 E H = 23 42 47 (BCIS) D = 2.9
9.	ePg eSg ei	A 06 59 09.5 A 59 41 A 59 44	<u>Swabian Jura/GFR</u> 48.3 N 9.0 E H = 06 58 13 (BCIS) D = 2.9
9.	eP	A 11 46 30.5	<u>Northwest of Kurile Islands</u> 48.07 N 148.34 E H = 11 35 30.4 h = 388 km MAG=5.1 D = 74.86 Az = 333.1 (USCGS) PV:1.3s 17.5nm MPV=4.6
9.	ePKP	A 12 49 15.5	<u>Fiji Islands</u> 20.19 S 177.89 W H = 12 30 26.7 h = 520 km MAG=4.3 D = 148.69 Az = 348.3 (USCGS) PKPV:1.4s 27.9nm
9.	eP e e	A 13 13 05 A 13 08 A 13 29	<u>North Atlantic Ocean</u> 36.16 N 10.51 W H = 13 08 16.5 h = normal MAG=4.5 D = 21.52 Az = 40.8 (USCGS) PV:0.8s 11.5nm MPV=4.3
9.	ePKIKP e ePP e e ePS	A 14 06 39 A 06 49 A 07 32 A 07 43 C 15 25 C 17 12	<u>West New Guinea</u> 4.13 S 135.51 E H = 13 47 59.5 h = 14 km MAG=5.5 D = 114.16 Az = 324.6 (USCGS) PPV:3.6s 179.0nm MPPV=6.2 LmH:17s 15.8/um MLH=6.7 LmV:19s 10.1/um MLV=6.4

54

March 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
9.	ePPS e eSS e LmH LmV	C 14 18 52 C 19 32 C 23 12 C 27 00 B 51.7 B 15 00.6	
9.	e e(PP)	A 14 39 18 A 42 28.5	<u>South of Honshu, Japan</u> 31.23 N 141.55 E H = 14 26 18.9 h = normal MAG=5.2 D = 87.26 Az = 330.7 (USCGS)
9.	e e	A 14 58 35 A 58 41	Probably <u>West New Guinea Region</u> (USCGS)
10.	-iP e e	A 05 47 44.5 A 47 55 A 48 04.5	<u>Taiwan Region</u> 22.80 N 121.05 E H = 05 35 15.1 h = 37 km MAG=4.8 D = 84.16 Az = 322.9 (USCGS) PV:1.0s 11.8nm MPV=5.1
10.	eiPKIKP +iX eisPKIKP e e eSS ei LmH LmV	A 07 12 48.5 A 12 50.5 A 14 23 C 25 25 C 26 28 C 30 48 C 32 12 B 08 00.2 B 06.0	<u>East New Guinea Region</u> 5.59 S 147.21 E H = 06 54 17.6 h = 206 km MAG=5.8 D = 121.82 Az = 328.4 (USCGS) PKIKPV:1.0s 31.5nm XV:1.3s 109.0nm LmH:20s 3.9/um LmV:16s 2.3/um
10.	eP e	A 08 27 45 A 28 01	<u>Near Coast of Nicaragua</u> 12.35 N 87.46 W H = 08 15 08.4 h = 62 km MAG=5.3 D = 86.23 Az = 39.1 (USCGS)
10.	-iP	A 19 11 53.5	<u>Afghanistan-USSR Border Region</u> 36.42 N 70.99 E H = 19 04 02.9 h = 201 km MAG=5.1 D = 44.16 Az = 308.1 (USCGS) PV:1.4s 35.0nm MPV=4.7

55

March 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP A	17 50 56.5	<u>Southern Iran</u> 28.25 N 53.08 E H = 17 43 34.1 h = 16 km MAG=4.5 D = 38.37 Az = 317.2
13.	eP A e A ei A	18 54 09 54 31 54 43	<u>Northwest Territories, Canada</u> 63.45 N 128.98 W H = 18 43 48.9 h = normal MAG=4.8 D = 62.11 Az = 27.2 (USCGS)
13.	ePP A	20 57.17	<u>Java Sea</u> 5.46 S 110.39 E H = 20 40 12.5 h = 502 km MAG=5.2 (USCGS) D = 99.9
13.	eP A e A e A LmV B LmH B	22 33 10.5 33 17 33 20.5 23 16.3 16.6	<u>Off Coast of Northern Peru</u> 8.03 S 80.08 W H = 22 19 37.2 h = 38 km MAG=5.4 D = 97.22 Az = 39.9 (USCGS)
14.	+iP B +iP A e A epP A ePP A eSKS C eSP C eSS C e C ei C	08 59 34 59 34.6 59 49 09 00 19 03 02 09 40 10 35 15 35 22 25 24 00	<u>Nicaragua</u> 12.92 N 86.76 W H = 08 47 16.3 h = 178 km MAG=5.6 D = 85.36 Az = 39.2 (USCGS)
14.	e(Sg) A	14 06 38.5	<u>Eschenlohe, explosion</u> 47°37.90' N 11°08.68' E H = 14 05 00.59 yield 7.7 to (ASFA)
15.	e A	04 32 04	<u>Northwest of Kurile Islands</u> 50.82 N 150.07 E H = 04 21 26.4 h = 520 km MAG=4.3 D = 72.91 Az = 333.8 (USCGS)

56

March 1969

Moxa

Day	Phase	h m s	Remarks
15.	e(P) A e A	08 31 30 31 46	<u>Caspian Sea</u> 42.38 N 48.98 E H = 08 26 08.4 h = 46 km MAG=5.0(USCGS) D = 25.8
15.	e A	12 03 33	<u>Ceram Sea</u> 2.80 S 126.51 E H = 11 44 42.3 h = normal MAG=5.6 D = 107.76 Az = 322.7 (USCGS)
15.	+iP A LmH B LmV B	13 47 31 14 23.8 31.6	<u>Andreanof Islands, Aleutian Is.</u> 51.24 N 179.07 W H = 13 35 35.3 h = 46 km MAG=5.6 D = 78.08 Az = 353.1 (USCGS) PV:1.4s 81.4nm MPV=5.7
16.	ePKP A	03 42 44	<u>Loyalty Islands</u> 21.64 S 169.80 E H = 03 23 05.7 h = normal MAG=- D = 146.37 Az = 334.7 (USCGS)
16.	eiP A e A	14 20 26 20 46	<u>Carlsberg</u> 9.77 N 57.77 E H = 14 10 52.2 h = normal MAG=4.9 D = 55.02 Az = 326.2 (USCGS)
16.	iP A ei A eS C eiPS C eSS C eSSS C LmH B LmV B	16 06 31 06 43 15 40 16 21 21 40 25 00 42.2 47.2	<u>Near East Coast of Honshu, Japan</u> 38.50 N 142.67 E H = 15 54 17.2 h = 40 km MAG=5.4 D = 81.37 Az = 330.9 (USCGS) PV:1.4s 69.7nm MPV=5.5 LmH:16s 3.8/um MLH=5.8 LmV:16s 3.4/um MLV=5.8
17.	ePKP A e A	01 14 36 17 21	<u>Fiji Islands</u> 17.69 S 179.86 E H = 00 56 06.2 h = 614 km MAG=5.4 D = 145.80 Az = 346.7 (USCGS) PKPV:1.5s 75.4nm
17.	ePKP A	01 20 26	<u>Fiji Islands</u> 17.76 S 179.96 E H = 01 01 55.6 h = 625 km MAG=4.5 D = 145.89 Az = 3467.7 (USCGS) PKPV:1.5s 35.2nm

57

March 1969

Moxa

Day	Phase	h m s	Remarks
17.	ePKP A	01 48 37.5	<u>Fiji Islands</u> 17.63 S 179.82 E H = 01 30 07.3 h = 615 km MAG=4.8 D = 145.73 Az = 346.6 (USCGS) PKPV:1.5s 60.3nm
18.	ePKP A	03 45 12	<u>Loyalty Islands</u> 21.36 S 171.11 E H = 03 25 31.8 h = 15 km MAG=5.5 D = 146.62 Az = 336.1 (USCGS)
	e A	45 14	
	i A	45 19	
	e B	45 28	
18.	-iPKP A	03 52 30.7	<u>Loyalty Islands</u> 21.37 S 170.94 E H = 03 32 50.8 h = normal MAG=5.3 D = 146.56 Az = 335.9 (USCGS) PKPV:2.2s 76.4nm
	e A	52 38	
	e A	52 43.5	
18.	ePKP A	04 01 07.5	<u>Tonga Islands</u> 15.22 S 173.46 W H = 03 41 22.7 h = 39 km MAG=5.1 D = 144.43 Az = 354.4 (USCGS)
18.	eP A	04 22 26	<u>North Atlantic Ocean</u> 36.01 N 10.52 W H = 04 17 34.6 h = 23 km MAG=4.2 D = 21.64 Az = 40.6 (USCGS) LmH:23s 1.6/um MLH=4.4 LmV:20s 1.0/um MLV=4.4
	LmH B	48.6	
	LmV B	05 00.2	
18.	eP A	05 21 04	<u>Kurile Islands</u> 47.08 N 153.87 E H = .05 09 09.6 h = 35 km MAG=4.4 D = 77.36 Az = 336.5 (USCGS)
18.	ePKP A	08 06 23	<u>Loyalty Islands</u> 21.48 S 171.11 E H = 07 46 44.6 h = normal MAG=3.9 D = 146.73 Az = 336.0 (USCGS)
18.	-iP A	16 28 41.5	<u>Kurile Islands</u> 44.15 N 150.96 E H = 16 16 39.6 h = 44 km MAG=5.7 D = 79.19 Az = 335.0 (USCGS) PV:1.3s 39.3nm MPV=5.3 LmH:16s 1.1/um MLH=5.3 LmV:15s 1.0/um MLV=5.3
	i A	28 44.5	
	eipP A	28 54	
	LmH B	17 07.2	
	LmV B	12.2	

March 1969

Moxa

Day	Phase	h m s	Remarks
18.	eP A	20 43 04	<u>Vancouver Island</u> 50.14 N 129.96 W H = 20 31 27.3 h = normal MAG=5.0 D = 74.37 Az = 24.3 (USCGS) LmH:16s 1.0/um MLH=5.2 LmV:16s 0.8/um MLV=5.1
	LmH B	21 13.6	
	LmV B	18.7	
18.	ePKHKP A	22 55 20	<u>South of Fiji Islands</u> 24.00 S 175.97 W H = 22 35 30.2 h = 68 km MAG=5.4 D = 152.76 Az = 349.4 (USCGS)
	ePKP2 A	55 32	
18.	-iP A	23 42 13	<u>Kurile Islands</u> 50.75 N 156.69 E H = 23 30 41.2 h = 90 km MAG=4.7 D = 74.70 Az = 337.8 (USCGS) PV:1.1s 24.2nm MPV=4.6
	epP A	42 30	
	LmH C	24 06.3	
19.	iP B	14 11 35	<u>Ryukyu Islands</u> 28.78 N 128.22 E H = 13 59 22.7 h = 136 km MAG=5.8 (USCGS) D = 83.1 LmH:13s 1.7/um LmV:13s 1.7/um
	ipP B	12 15	
	esP B	12 25	
	ePP B	14 44	
	ipPPP B	15 27	
	iS C	21 40	
	e C	22 36	
	ePS C	22 53	
	LmH B	53.6	
	LmV B	53.6	
19.	eP A	18 31 02	<u>Kurile Islands</u> 44.06 N 150.97 E H = 18 18 58.9 h = 50 km MAG=4.8 D = 79.27 Az = 335.0 (USCGS) PV:1.2s 16.3nm MPV=4.9
20.	+iP B	08 30 22	<u>Gulf of California</u> 31.25 N 114.28 W H = 08 17 41.9 h = 20 km MAG=5.4 (USCGS) D = 85.4 PV(B):6.0s 0.74/um MPV=6.0 LmV:15.5s 5.4/um MLV=6.0 LmH:15s 4.0/um MLH=5.9
	eS C	40 55	
	e C	41 25	
	LmV B	09 14.5	
	LmH B	14.6	

March 1969

Moxa

Day	Phase	h m s	Remarks
20.	eP	A 13 43 05	<u>South of Honshu, Japan</u> 29.83 N 138.59 E H = 13 31 06.1 h = 429 km MAG=4.6 D = 87.20 Az = 329.4 (USCGS)
20.	iPg eSg	A 15 05 30.5 A 05 50.5	<u>Dortheim Hessen, explosion</u> 50°57.89' N 9°13.12' E H = 15 05 01.3 yield 7.8 to D = 1.5 (Hannover)
20.	-iP -i eSKS eS LmH LmV	A 16 32 35.3 A 32 40 C 43 10 C 44 03 B 17 30.3 B 30.5	<u>Philippine Islands</u> 8.69 N 127.25 E H = 16 18 56.4 h = normal MAG=6.1 D = 99.01 Az = 324.5 (USCGS) PV:1.4s 195.5nm MPV=6.6 LmH:17s 6.0/um MLH=6.2 LmV:16.5s 5.9/um MLV=6.2
20.	eP	A 18 23 10	<u>Nevada/USA</u> underground explosion (UPP)
20.	eP	A 18 27 59.5	<u>Andreanof Islands, Aleutian Is.</u> 51.61 N 174.93 W H = 18 16 06.4 h = 59 km MAG=4.8 D = 77.97 Az = 355.7 (USCGS) PV:1.2s 12.2nm MPV=4.7
20.	eP	A 23 52 20	<u>Philippine Islands</u> 8.77 N 127.32 E H = 23 38 40.6 h = normal MAG=5.1 D = 98.98 Az = 324.5 (USCGS) PV:1.1s 20.2nm MPV=5.8
21.	ePKP epPKP	A 02 00 28 A 00 58	<u>New Hebrides Islands</u> 20.31 S 169.82 E H = 01 41 02.7 h = 96 km MAG=4.4 D = 145.18 Az = 335.5 (USCGS) PKPV:1.2s 14.2nm
21.	+iP e e e	A 03 17 20.4 A 17 29 A 17 37 A 20 09	<u>Off East Coast of Honshu, Japan</u> 40.32 N 143.68 E H = 03 05 11.9 h = normal MAG=5.3 D = 80.17 Az = 331.3 (USCGS)

60

March 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
21.	eS LmH LmV	C 03 27 24 B 58.0 B 04 00.5	PV:1.6s 63.2nm MPV=5.3 LmH:15s 2.6/um MLH=5.7 LmV:14s 2.0/um MLV=5.6
21.	eP LmH LmV	A 04 06 19 B 45.4 B 46.8	<u>Gulf of California</u> 31.22 N 114.30 W H = 03 53 42.4 h = normal MAG=5.3 D = 85.54 Az = 31.1 (USCGS) PV:2.6s 208.0nm MPV=5.9 LmH:17s 1.2/um MLH=5.4 LmV:14s 1.6/um MLV=5.6
21.	i(P) e LmH LmV	A 05 08 52 A 09 48 B 48.0 B 49.4	<u>Gulf of California</u> 31.17 N 114.23 W H = 04 56 20.3 h = normal MAG=5.4 D = 85.55 Az = 31.2 (USCGS) LmH:17s 4.8/um MLH=5.0 LmV:15s 4.4/um MLV=6.0
21.	eP eS LmH LmV	A 06 47 03 B 57 40 B 07 26.2 B 27.5	<u>Gulf of California</u> 31.13 N 114.25 W H = 06 34 22.2 h = 4 km MAG=5.5 D = 85.60 Az = 31.2 (USCGS) PV:3.1s 568.0nm MPV=6.3 LmH:16s 2.7/um MLH=5.7 LmV:15s 3.4/um MLV=5.8
21.	eP LmH LmV	A 07 33 49 B 08 12.8 B 17.9	<u>Gulf of California</u> 31.28 N 114.24 W H = 07 21 11.6 h = normal MAG=5.1 D = 85.46 Az = 31.2 (USCGS) PV:3.0s 263.0nm MPV=5.8 LmH:16s 1.6/um MLH=5.5 LmV:14s 2.1/um MLV=5.7
21.	eP	A 10 22 51	<u>Gulf of California</u> 31.19 N 114.29 W H = 10 10 10.7 h = 5 km MAG=5.4 D = 85.56 Az = 31.1 (USCGS) PV:2.9s 260.0nm MPV=5.9

61

March 1969

Moxa

Day	Phase	h m s	Remarks
21.	eP LmH LmV	A 10 37 32 B 11 07.0 B 07.0	<u>Philippine Islands</u> 8.50 N 127.31 E H = 10 23 53.0 h = normal MAG=5.2 D = 99.20 Az = 324.5 (USCGS) LmH:13.5s 1.7/um MLH=5.6 LmV:15s 2.1/um MLV=5.7
21.	eP LmH LmV	A 12 16 57 B 52.0 B 55.3	<u>Kurile Islands</u> 49.65 N 155.61 E H = 12 05 16.3 h = 50 km MAG=5.3 D = 75.45 Az = 337.3 (USCGS) PV:1.8s 30.4nm MPV=5.1 LmH:23s 0.8/um MLH=5.0 LmV:16s 0.5/um MLV=4.9
21.	eSg ei	A 15 23 28 A 23 30	<u>Germany</u> 48.3 N 9.0 E H = 15 22 00 (BCIS) D = 2.9
21.	LmH LmV	B 16 49.5 B 54.5	Probably <u>Gulf of California</u> (USCGS) LmH:17s 0.5/um LmV:15s 0.6/um
21.	LmH LmV	B 17 21.3 B 26.6	Probably <u>Gulf of California</u> (USCGS) LmH:16s 0.6/um LmV:15s 0.7/um
21.	LmH LmV	B 18 52.0 B 57.1	Probably <u>Gulf of California</u> (USCGS) LmH:16s 0.5/um LmV:14s 0.8/um
22.	ePKP	A 02 10 23	<u>Tonga Islands</u> 18.01 S 174.11 W H = 01 50 49.5 h = 95 km MAG=4.7 D = 147.12 Az = 353.3 (USCGS)
22.	eP iPP LmH LmV	A 05 00 29 A 02 08 B 20.5 B 22.5	<u>Afghanistan-USSR Border Region</u> 38.90 N 70.62 E H = 04 52 32.6 h = 8 km MAG=5.3 D = 42.43 Az = 306.0 (USCGS) PV:1.3s 56.8nm MPV=5.1 LmH:12s 1.0/um MLH=4.9 LmV:12s 1.1/um MLV=5.0

62

March 1969

Moxa

Day	Phase	h m s	Remarks
22.	iP e eS LmH LmV	A 07 38 15.4 A 38 46 C 48 47 B 08 14.7 B 18.7	<u>Gulf of California</u> 31.35 N 114.07 W H = 07 25 35.6 h = normal MAG=5.1 D = 85.32 Az = 31.3 (USCGS) PV:3.8s 260.0nm MPV=5.8 LmH:18s 1.5/um MLH=5.4 LmV:16s 2.4/um MLV=5.7
22.	e	A 12 33 00	<u>Tonga Islands</u> 15.10 S 173.88 W H = 12 13 15.8 h = 46 km MAG=4.6 D = 144.27 Az = 354.0 (USCGS)
22.	iP e ePP	A 13 48 06 A 48 20 A 51 11	<u>Kurile Islands</u> 43.36 N 147.36 E H = 13 36 06.1 h = 40 km MAG=5.0 D = 78.75 Az = 333.1 (USCGS) PV:1.5s 20.1nm MPV=5.0
22.	ePKP e e	A 13 50 43 A 50 48 A 50 54	<u>Fiji Islands</u> 16.45 S 177.55 W H = 13 31 07.8 h = normal MAG=5.0 D = 145.10 Az = 349.8 (USCGS)
22.	e(P)	A 18 04 53	<u>Turkey</u> 39.08 N 28.60 E H = 18 00 54.6 h = normal MAG=4.5 D = 16.65 Az = 319.5 (USCGS) PV:1.6s 16.5nm
22.	LmH LmV	B 19 14.7 B 16.0	Probably <u>Gulf of California</u> (USCGS) LmH:16s 0.5/um LmV:14s 0.6/um
23.	ePKIKP ePKHKP ePKP2	A 02 26 41 A 26 49 A 27 02	<u>South of Fiji Islands</u> 24.77 S 179.80 E H = 02 07 52.6 h = 550 km MAG=5.1 D = 152.60 Az = 343.5 (USCGS) PKP2V:1.3s 17.5nm
23.	eP	A 04 30 36	<u>India-West Pakistan Border Region</u> 24.43 N 68.66 E H = 04 21 31.4 h = 15 km MAG=4.4 D = 50.74 Az = 316.4 (USCGS)

63



March 1969

Moxa

Day	Phase	h m s	Remarks
23.	eP e	A 12 02 10 A 02 15	<u>Near West Coast of Colombia</u> 6.21 N 77.76 W H = 11 49 35.6 h = 24 km MAG=5.0 D = 84.85 Az = 39.7 (USCGS)
23.	eP eX ePPP eS LmH LmV	A 12 11 00 A 11 05 C 14 40 B 19 10 B 29.5 B 35.3	<u>Central Mid-Atlantic Ridge</u> 0.95 N 26.00 W H = 12 01 01.5 h = normal MAG=4.9 D = 58.87 Az = 27.0 (USCGS) XV:2.0s 42.7nm MXV=5.1 SH:14s 1.5/um MSH=5.6 LmH:20s 1.5/um MLH=5.1 LmV:16s 1.3/um MLV=5.2
23.	LmH LmV	B 16 30.8 B 32.0	Probably <u>Gulf of California</u> (USCGS) LmH:16s 0.6/um LmV:16s 0.7/um
23.	eP -iX iS LmH LmV	A 21 12 35 A 12 39 C 15 44 B 18.5 B 21.6	<u>Turkey</u> 39.16 N 28.48 E H = 21 08 42.6 h = 12 km MAG=5.6 D = 16.53 Az = 319.5 (USCGS) PV:1.6s 57.7nm MPV=4.5 XV:2.1s 615.0nm MXV=5.4 LmH:12s 41.6/um MLH=5.9 LmV:12s 25.8/um MLV=5.8
24.	ePKHKP	A 01 13 41	<u>Tonga Islands</u> 19.38 S 175.70 W H = 00 54 17.5 h = 205 km MAG=4.7 D = 148.26 Az = 351.1 (USCGS) PKHKPV:1.7s 36.4nm
24.	eP eX LmH LmV	A 02 03 24 A 03 26.5 B 09.2 B 10.9	<u>Turkey</u> 39.13 N 28.48 E H = 01 59 30.6 h = 6 km MAG=5.0 D = 16.55 Az = 319.6 (USCGS) XV:1.9s 41.7nm MXV=4.2 LmH:13s 3.7/um MLH=5.3 LmV:10s 3.1/um MLV=5.4

64

March 1969

Moxa

Day	Phase	h m s	Remarks
24.	e	A 08 17 04	<u>Turkey</u> 39.08 N 28.54 E H = 08 13 00.5 h = 7 km MAG=4.7 D = 16.62 Az = 319.6 (USCGS)
24.	eP	A 09 38 20	<u>North Atlantic Ocean</u> 35.83 N 10.43 W H = 09 33 29.7 h = normal MAG=4.3 D = 21.73 Az = 40.2 (USCGS)
24.	LmH LmV	B 09 54.2 B 55.0	Probably <u>Gulf of California</u> (USCGS) LmH:16s 0.4/um LmV:19s 0.8/um
24.	eP e LmH LmV	A 11 38 27.5 A 38 31.5 B 44.1 B 46.0	<u>Turkey</u> 39.20 N 28.63 E H = 11 34 31.2 h = 15 km MAG=4.6 D = 16.57 Az = 319.2 (USCGS) PV:2.2s 43.6nm MPV=4.2 LmH:15s 0.6/um MLH=3.9 LmV:14s 0.3/um MLV=3.8
24.	+iP eS e e e	A 12 00 13 C 04 55 C 05 15 C 05 25 B 05 30	<u>United Arab Republic</u> 27.53 N 33.83 E H = 11 54 15.5 h = 21 km MAG=5.2 D = 28.60 Az = 329.8 (USCGS) PV:2.0s 128.0nm MPV=5.4
24.	eP	A 12 56 46	<u>United Arab Republic</u> 27.57 N 33.79 E H = 12 50 50.5 h = normal MAG=4.8 D = 28 55 Az = 329.8 (USCGS) PV:2.0s 55.5nm MPV=5.0
25.	eP e	A 13 25 06 A 25 11	<u>Turkey</u> 39.03 N 28.50 E H = 13 21 10.4 h = 23 km D = 16.64 Az = 319.8 (USCGS) PV:1.5s 35.2nm MPV=4.3
25.	eP iX eis	A 13 25 22 A 25 27 C 28 30	<u>Turkey</u> 39.18 N 28.37 E H = 13 21 32.4 h = 23 km MAG=5.6 D = 16.46 Az = 319.6 (USCGS)

65

March 1969

Moxa

Day	Phase	h m s	Remarks
cont			
25.	ei	C 13 28 36	XV:1.8s 933.0nm MXV=5.6
	LmH	B 31.2	LmH:15s 56.8/um MLH=5.9
	LmV	B 34.9	LmV:10s 24.8/um MLV=5.9
25.	iPKHKP	A 13 32 23.7	<u>South of Fiji Islands</u> 23.54 S 177.78 W
	i	A 32 31	H = 13 13 01.4 h = 291 km MAG=5.4
	ipPKP	A 33 36.7	D = 151.97 Az = 347.2 (USCGS)
25.	eP	A 14 22 45	<u>Turkey</u> 39.17 N 28.38 E
	eiX	A 22 46	H = 14 18 50.8 h = 23 km MAG=4.9 D = 16.47 Az = 319.6 (USCGS) XV:1.7s 84.8nm MXV=4.6
25.	eP	A 16 17 24	<u>Turkey</u> 39.06 N 28.30 E
	LmH	B 23.0	H = 16 13 27.2 h = 17 km MAG=4.7
	LmV	B 24.9	D = 16.52 Az = 320.0 (USCGS) PV:1.3s 26.2nm MPV=4.2
25.	LmH	B 21 08.4	Probably <u>Off Coast of Central Mexico</u> (USCGS)
	LmV	B 08.6	LmH:16s 0.2/um LmV:16s 0.3/um
26.	eP	A 03 35 21	<u>Turkey</u> 39.08 N 28.44 E
	LmH	B 41.0	H = 03 31 24.2 h = 23 km MAG=4.5
	LmV	B 42.9	D = 16.56 Az = 319.7 (USCGS) PV:1.6s 19.2nm MPV=4.0 LmH:13s 0.5/um MLH=4.0 LmV:10s 0.2/um MLV=3.8
26.	ePKHKP	A 09 44 12	<u>South of Fiji Islands</u> 24.58 S 176.16 W
	eX	A 44 20	H = 09 24 19.8 h = 50 km MAG=5.1 D = 153.29 Az = 349.0 (USCGS) XV:2.0s 17.1nm
26.	LmH	B 16 24.5	Probably <u>Luzon, Philippine Islands</u> (USCGS)
	LmV	B 28.3	LmH:16s 0.6/um LmV:16s 0.8/um

March 1969

Moxa

Day	Phase	h m s	Remarks
26.	eP	A 17 18 01	<u>Dodecanese Islands</u> 35.15 N 27.71 E
	e	A 18 06.5	H = 17 13 35.7 h = normal MAG=4.3
	e	A 18 16.5	D = 19.39 Az = 327.9 (USCGS) FV:1.2s 20.4nm MPV=4.2
26.	eP	A 19 35 49.5	<u>Philippine Islands</u> 8.63 N 127.58 E
			H = 19 22 09.0 h = 31 km MAG=5.3 D = 99.25 Az = 324.6 (USCGS)
27.	LmV	B 05 51.0	Probably <u>North of Halmahera</u> (USCGS)
	LmH	B 54.7	LmV:17s 2.4/um LmH:17s 2.7/um
27.	eP	A 06 21 25	<u>United Arab Republic</u> 27.53 N 33.94 E
			H = 06 15 30.0 h = normal MAG=4.7 D = 28.65 Az = 329.7 (USCGS) PV:1.6s 16.5nm MPV=4.6
27.	eP	A 11 27 28	<u>Tadzhik SSR</u> 38.97 N 71.87 E
	ePP	A 29 18	H = 11 19 29.3 h = 37 km MAG=4.9 D = 43.18 Az = 306.1 (USCGS)
27.	eP	A 12 55 30	<u>Talau Islands</u> 4.77 N 127.51 E
	+iX	AB 55 32	H = 12 41 35.9 h = 32 km MAG=6.1
	e	A 55 36	D = 102.32 Az = 324.1 (USCGS)
	iPP	A 59 42.5	PV(A):1.6s 38.5nm MPV(A)=5.8
	e	C 13 06 48	XV(A):2.0s 136.0nm MXV(A)=6.7
	eS	B 07 15	PV(B):16s 3.5/um MPV=6.8
	ei	B 07 40	PPV(A):3.6s 1830.0nm MPPV=6.9
	eiPS	C 08 55	LmH:18.5s 28.1/um MLH=6.8
	ei	B 09 30	LmV:19.5s 21.8/um MLH=6.7
	eSS	C 14 00	
	e	B 14 40	
	LmH	B 49.5	
	LmV	B 49.7	
27.	eP	A 19 45 43	<u>Tadzhik SSR</u> 39.03 N 71.84 E
	e(PP)	A 47 35.5	H = 19 37 44.1 h = normal MAG=5.2
	e	47 54	D = 43.12 Az = 306.1 (USCGS) PPV:2.0s 17.1nm MPPV=4.5

March 1969

Moxa

Day	Phase	h m s	Remarks
28.	ePKP A	01 39 23	<u>Loyalty Islands</u> 21.81 S 169.78 E H = 01 19 43.7 h = normal MAG=4.9 D = 146.52 Az = 334.6 (USCGS) PKPV:0.7s 15.3nm
28.	-iP AB	01 52 29	<u>Turkey</u> 38.59 N 28.45 E H = 01 48 30.4 h = 9 km MAG=6.0 D = 16.95 Az = 320.8 (USCGS) XV:1.7s 1880.0nm MXV=5.9 LmH B 58.3 PV(B):10s 15.6/um MPV(B)=6.1 LmV B 02 02.4 LmH:17s 272/um MLH=6.6 LmV:14s 102/um MLV=6.4
28.	eP A	03 19 37	<u>South of Honshu, Japan</u> 33.34 N 140.33 E H = 03 07 09.6 h = 78 km MAG=4.8 D = 84.92 Az = 330.1 (USCGS)
28.	eP A	05 44 19	<u>Turkey</u> 38.23 N 28.97 E H = 05 40 10.0 h = 3 km MAG=4.6 D = 17.48 Az = 320.8 (USCGS) PV:1.3s 13.1nm MPV=3.9 LmH:10.5s 0.4/um MLH=3.9 LmV:11s 0.3/um MLV=3.9
28.	ePP A	09 41 15	<u>Volcano Islands Region</u> 22.6 N 142.9 E H = 09 24 15.8 h = 169 km MAG=5.0 (USCGS) D = 95.5
28.	+eiP A	10 06 11	<u>Turkey</u> 39.11 N 28.44 E H = 10 02 16.7 h = normal MAG=4.9 D = 16.54 Az = 319.7 (USCGS) PV:2.0s 94.0nm MPV=4.6 LmH:13s 2.2/um MLH=4.6 LmV:11s 0.9/um MLV=4.4
28.	e A	15 32 35	<u>Gulf of California</u> 31.50 N 114.28 W H = 15 19 40.4 h = normal MAG=5.0 D = 85.29 Az = 31.2 (USCGS) PV:1.4s 9.3/um

68

March 1969

Moxa

Day	Phase	h m s	Remarks
28.	eSg A	16 06 29	<u>Mehrberg/Linz</u> , explosion 50°36.53' N 7°17.85' E H = 16 05 00.8 yield 3.9 to (Hannover)
28.	eP A	23 01 35	<u>North Atlantic Ocean</u> 57.76 N 32.75 W H = 22 55 59.1 h = normal MAG=4.6 D = 26.50 Az = 86.2 (USCGS) XV:1.8s 27.0nm MXV=4.6 LmH:15.5s 1.4/um MLH=4.6 LmV:16s 1.6/um MLV=4.8
28.	eX A	01 50	
	LmH B	12.3	
	LmV B	12.5	
29.	eP A	01 46 08.5	<u>Southern Italy</u> 40.04 N 15.17 E H = 01 43 39.0 h = 310 km MAG=4.6 D = 10.90 Az = 347.9 (USCGS) PV:1.1s 16.1nm XV:1.5s 75.4nm
	iX A	46 12	
29.	-eiP A	09 24 11	<u>Ethiopia</u> 11.97 N 41.18 E H = 09 15 54.1 h = normal MAG=5.8 D = 45.51 Az = 333.9 (USCGS) PV:2.3s 378.0nm MPV=6.0 LmH:16s 28.2/um MLH=6.3 LmV:14s 13.6/um MLV=6.1
	ePP A	26 08	
	+iS B	30 58	
	eiSS C	34 10	
	LmH B	45.2	
	LmV B	46.5	
29.	-iP A	11 13 10.5	<u>Ethiopia</u> 11.96 N 41.29 E H = 11 04 47.9 h = 4 km MAG=5.6 D = 45.57 Az = 333.8 (USCGS) PV:2.1s 211.0nm MPV=5.8 LmH:17s 9.9/um MLH=5.8 LmV:14s 6.1/um MLV=5.8
	+i B	13 12	
	-i A	13 18	
	ePPP B	15 48	
	e B	17 47	
	eS B	19 56	
	e B	22 34	
	LmH B	34.1	
	LmV B	37.9	
29.	ePKP A	12 53 52	<u>Tonga Islands</u> 20.94 S 174.09 W H = 12 34 03.3 h = 35 km MAG=4.5 D = 150.01 Az = 352.7 (USCGS) PKPV:2.0s 34.2nm

69

March 1969

Moxa

Day	Phase	h m s	Remarks
29.	-iP	A 13 16 34.5	<u>Ethiopia</u> 11.94 N 41.52 E
	+i	A 16 39	H = 13 08 11.4 h = 4 km MAG=5.1
	e	A 17 12	D = 45.69 Az = 333.7 (USCGS)
	e	A 18 25	PV:1.6s 60.5nm MPV=5.4
	LmH	B 39.5	
	LmV	B 42.4	
29.	+iP	AB 13 58 24	<u>Carlsberg Ridge</u> 10.43 N 56.84 E
	e	A 58 31	H = 13 48 57.6 h = normal MAG=5.6
	LmH	B 14 25.4	D = 54.56 Az = 326.3 (USCGS)
	LmV	B 25.4	PV(A):2s 150.0nm MPV=5.7 PV(B):4.5s 1.1/um MPV=6.2 LmH:19s 2.4/um MLH=5.3 LmV:20s 2.0/um MLV=5.2
29.	e	A 18 39 08	<u>Ethiopia</u> 12.00 N 41.38 E H = 18 30 42.2 h = normal MAG=4.6 D = 45.57 Az = 333.7 (USCGS)
30.	eP	A 03 03 46	<u>Central-Mid Atlantic Ridge</u>
	e	A 03 56.5	8.09 N 38.81 W
	e	A 04 06.5	H = 02 53 41.2 h = normal MAG=4.6
	LmH	B 27.4	D = 59.37 Az = 34.8 (USCGS)
	LmV	B 27.4	
31.	eP	A 07 21 48	<u>Red Sea</u> 27.67 N 33.99 E
	-i	AB 21 50	H = 07 15 54.4 h = normal MAG=6.0
	+eiS	B 26 37	D = 28.55 Az = 329.5 (USCGS)
	-i	B 26 46	PV(A):1.7s 176.0nm MPV=6.6
	e	E 27 50	PV(B):11.5s 41.8/um MPV=7.2
	+i	B 28 32	LmH:16s 66.5/um MLH=6.3
	LmH	B 38.1	LmV:14s 58.0/um MLV=6.4
	LmV	B 41.9	
31.	eP	A 09 07 03.5	<u>United Arab Republic</u> 28.40 N 34.38 E H = 09 01 12.7 h = normal MAG=4.9 D = 28.11 Az = 328.5 (USCGS) PV:1.4s 18.6nm MPV=4.7

70

March 1969

Moxa

Day	Phase	h m s	Remarks
31.	eP	A 11 35 57	<u>Red Sea</u> 27.59 N 34.15 E
	e	A 37 58	H = 11 29 59.5 h = 24 km MAG=4.6 D = 28.70 Az = 329.5 (USCGS)
31.	eP	A 19 36 43.5	<u>Sea of Japan</u> 38.33 N 134.60 E
	-i	A 36 46	H = 19 25 27.2 h = 417 km MAG=5.9
	ipP	B 38 14	D = 78.25 Az = 326.9 (USCGS)
	i	A 38 23	PV:1.3s 575.0nm MPV=6.1
	isP	B 38 59	LmH:20s 6.9/um
	iPP	B 39 48	LmV:14.5 6.3/um
	i	A 45 10	
	-iS	B 46 05	
	eiPS	B 47 49	
	isS	B 48 42	
	eSS	B 51 08	
ePKPPKP	A 20 03 43		
eSKPPKP	A 06 32		
e	A 06 39		
LmH	B 12.3		
LmV	B 17.3		
31.	iP	A 21 50 27.8	<u>Red Sea</u> 27.46 N 34.03 E
	e	A 50 52	H = 21 44 27.3 h = 6 km MAG=5.0 D = 28.75 Az = 329.7 (USCGS) PV:1.6s 49.5nm MPV=5.1
31.	eP	A 22 46 44	<u>Red Sea</u> 27.43 N 34.07 E
	e	A 46 48.5	H = 22 40 47.0 h = normal MAG=4.7 D = 28.80 Az = 329.7 (USCGS) PV:2.0s 51.3nm MPV=5.0

71

APRIL 1969

Moxa

Day	Phase	h m s	Remarks
1.	eP	A 04 15 35.5	<u>Iceland Region</u> 66.38 N 17.75 W
	e	A 15 38	H = 04 10 45.8 h = normal MAG=4.5
	eS	C 19 44	D = 21.67 Az = 122.3 (USCGS)
	LmV	B 25.2	PV:1.0s 19.7nm MPV=4.5
	LmH	B 25.3	LmV:16s 0.6/um MLV=4.2 LmH:16s 1.0/um MLV=4.3
1.	ePKP	A 05 01 57.5	<u>Fiji Islands</u> 17.75 S 178.89 W H = 04 43 22.6 h = 600 km MAG=4.4 D = 146.12 Az = 348.0 (USCGS) PKPV:1.2s 8.1nm
1.	eP	A 16 44 48.5	<u>West Pakistan</u> 30.00 N 67.39 E
	LmH	B 17 11.0	H = 16 36 23.4 h = 20 km MAG=4.9
	LmV	B 11.0	D = 46.02 Az = 313.0 (USCGS) PV:1.2s 24.4nm MPV=4.7 LmV:12s 0.4/um MLV=4.5
1.	eP	A 21 44 39	<u>Alaska Peninsula</u> 55.84 N 161.27 W H = 21 33 10.0 h = 58 km MAG=4.6 D = 73.72 Az = 4.7 (USCGS) PV:0.8s 7.7nm MPV=4.7
2.	eiP	A 01 40 46.5	<u>Southern Italy</u> 39.03 N 15.35 E
	iX	A 40 48.7	H = 01 38 01.9 h = 258 km MAG=4.8
	+i	A 41 12	D = 11.91 Az = 348.4 (USCGS)
	e	A 43 05.5	XV:1.2s 244.0nm MXV=5.3
2.	iPKP	A 20 43 30	<u>Fiji Islands</u> 15.77 S 176.58 W H = 20 24 45.2 h = 462 km MAG=4.7 D = 144.59 Az = 351.0 (USCGS) PKPV:1.3s 39.3nm
3.	eP	A 03 01 20	<u>Kirgiz Sinkiang Border Region</u> 41.18 N 79.24 E H = 02 52 50.9 h = 40 km MAG=4.5 D = 46.47 Az = 305.7 (USCGS)

72

April 1969

Moxa

Day	Phase	h m s	Remarks
3.	eP	A 20 12 10	<u>Red Sea</u> 27.44 N 33.97 E
	e	A 13 32	H = 20 06 13.6 h = normal MAG=4.5
	eS	C 17 02	D = 28.74 Az = 329.8 (USCGS)
3.	-eiP	A 22 15 06	<u>Albania</u> 40.74 N 19.89 E
	Pm	A 15 10	H = 22 12 23.8 h = normal MAG=5.1
	eS	C 17 36	D = 11.46 Az = 332.6 (USCGS)
	e	B 17 50	PV:1.0s 31.5nm
	i	B 18 49	PmV:0.9s 222.0nm
	LmH	B 20.3	LmH:17s 44.2/um MLH=5.4 LmV:18s 32.8/um
3.	eP	A 23 47 58	<u>Albania</u> 40.59 N 19.88 E
	e	A 50 30	H = 23 45 09.9 h = normal MAG=4.6
	e	A 50 51	D = 11.60 Az = 332.9 (USCGS) PV:0.8s 7.7nm
3.	eP	A 23 54 36	<u>Philippine Islands</u> 8.61 N 127.16 E H = 23 40 55.3 h = normal D = 99.02 Az = 324.4 (USCGS)
4.	eP	A 04 23 30	<u>Albania</u> 40.61 N 19.79 E
	i	A 23 31.5	H = 04 20 46.8 h = normal MAG=4.3
	e	A 23 47	D = 11.54 Az = 333.1 (USCGS)
	e	A 25 41	
	e	A 26 39.5	
	e	A 26 51.5	
	LmH	C 29.0	
	LmV	B 29.0	
4.	-iP	A 08 57 12	<u>Near Islands, Aleutian Islands</u>
	e	A 57 16	51.17 N 173.72 E
	e	A 57 22	H = 08 45 18.7 h = normal MAG=5.6
	e	A 57 44	D = 77.43 Az = 348.4 (USCGS)
	LmH	B 09 35.4	PV:1.8s 94.5nm MPV=5.6
	LmV	B 37.5	LmH:19s 1.0/um MLH=5.2

73

April 1969

Moxa

Day	Phase	h m s	Remarks
4.	eP	A 12 24 42	<u>Red Sea</u> 27.68 N 34.07 E
	e	A 24 46.5	H = 12 18 47.3 h = normal MAG=4.7
	e	A 24 53.5	D = 28.58 Az = 329.4 (USCGS)
	e	A 25 08	PV:1.1s 10.1nm MPV=4.6
	eS	E 29 30	
4.	eP	A 14 08 28	<u>Taiwan</u> 22.91 N 120.04 E
	epP	A 08 40	H = 13 56 03.2 h = 46 km MAG=5.2
	LmH	B 44.5	D = 83.52 Az = 322.6 (USCGS)
	LmV	B 51.6	PV:2.2s 65.5nm MPV=5.5 LmH:15.5s 1.4/um MLH=5.4 LmV:17s 1.5/um MLV=5.5
4.	eP	A 16 29 10	<u>Gulf of California</u> 24.37 N 109.76 W
	eX	A 29 17	H = 16 16 17.2 h = 31 km MAG=5.6
	LmH	B 17 08.0	D = 89.20 Az = 32.9 (USCGS)
	LmV	B 10.0	PV:2.0s 42.7nm MPV=5.3 XV:2.0s 51.3nm MXV=5.4 LmH:18s 3.0/um MLH=5.8 LmV:15.5s 2.3/um MLV=5.7
4.	+iP	A 23 08 49	<u>Komandorsky Islands</u> 54.53 N 169.43 E
	LmH	C 47.3	H = 22 57 16.8 h = 27 km MAG=5.4 D = 73.56 Az = 345.5 (USCGS) PV:1.2s 40.6nm MPV=5.3
5.	eP	A 02 26 48	<u>Ethiopia</u> 12.15 N 41.20 E
	eiX	A 26 51.5	H = 02 18 29.9 h = 17 km MAG=6.2
	e	A 27 02.5	D = 45.35 Az = 333.8 (USCGS)
	e	A 28 40	PV:1.5s 25.2nm MPV=5.0
	ePP	A 28 43	XV:2.5s 784.0nm MXV=6.3
	+iS	C 33 34	LmH:15.5s 19.4/um MLH=6.1
	-iS	C 33 39	LmV:16s 11.6/um MLV=6.0
	iSS	C 36 53	
	iSS	B 36 55	
	LmH	B 47.8	
	LmV	B 52.4	

April 1969

Moxa

Day	Phase	h m s	Remarks
5.	ePKHKP	A 07 13 29	<u>West of Macquarie Island</u> 54.70 S 143.80 E
	e	A 13 35	H = 06 53 39.2 h = normal MAG=5.2
	ePKP2	A 13 39	D = 151.18 Az = 281.9 (USCGS)
	e	A 13 44	
	e	A 14 36	
5.	eP	A 17 57(07)	<u>Red Sea</u> 27.47 N 34.23 E
	e	A 57 12	H = 17 51 10.9 h = normal MAG=4.5 D = 28.83 Az = 329.5 (USCGS)
5.	ePr	A 19 11 32	<u>North Sea</u> 57.10 N 7.24 E
	eSn	A 12 50	H = 19 09 49.2 h = normal MAG=4.5
	ei	A 12 57	D = 6.96 Az = 156.4 (USCGS) PV:0.6s 11.5nm
5.	eP	A 20 22 54	<u>Ethiopia</u> 12.03 N 41.47 E
			H = 20 14 35.9 h = normal MAG=4.9 D = 45.59 Az = 333.7 (USCGS) PV:1.8s 33.8nm MPV=5.0
6.	eP	A 03 53 19	<u>Aegean Sea</u> 38.50 N 26.42 E
	eX	A 53 22.5	H = 03 49 33.5 h = 14 km MAG=5.5
	i	A 53 25	D = 16.05 Az = 324.0 (USCGS)
	-i	A 53 32	PV:1.7s 30.3nm MPV=4.2
	iS	C 56 20	XV:1.9s 1400.0nm MXV=5.8
	iS	B 56 30	LmH:11.5s 24.6/um MLH=5.6
	LmV	B 04 00.3	
	LmH	B 00.4	
6.	eP	A 12 54 14.5	<u>Aegean Sea</u> 38.40 N 26.75 E
			H = 12 50 27.5 h = 65 km MAG=4.2 (USCGS) D = 16.3
6.	eP	A 13 01 25	<u>Crete</u> 34.07 N 25.28 E
	e	A 03 51	H = 12 56 59.0 h = 30 km MAG=4.1 (USCGS) D = 19.3

April 1969

Moxa

Day	Phase	h m s	Remarks
6.	eP	A 17 00 04.5	<u>Ethiopia</u> 12.03 N 41.12 E
	ePP	A 01 42	H = 16 51 45.5 h = 20 km MAG=5.2
	eS	C 06 45	D = 45.43 Az = 333.9 (USCGS)
	eSS	C 10.5	LmH:18s 1.1/um MLH=4.8
	LmH	B 17 20.8	LmV:14s 0.9/um MLV=5.0
	LmV	B 25.8	
6.	eP	A 19 31 20	<u>USSR-Mongolia Border Region</u>
	e	A 31 31	50.32 N 91.22 E
	e	A 31 46	H = 19 22 39.4 h = 31 km MAG=4.8
	e	A 35 55	D = 48.28 Az = 303.0 (USCGS)
	LmH	C 53.4	LmH:12s 0.5/um MLH=4.7
	LmV	C 53.7	LmV:13s 0.5/um MLV=4.8
6.	e(Pdiff.)	A 20 23 02.5	Probably <u>Sandwich Islands Region</u> (USCGS)
6.	ePKIKP	A 23 38 31.5	<u>Fiji Islands</u> 20.85 S 178.54 W
	-iPKHKP	A 38 37	H = 23 19 46.2 h = 505 km MAG=4.8
	ePKP2	A 38 41	D = 149.21 Az = 347.3 (USCGS) PKHKPV:1.0s 39.4nm PKP2V: 1.1s 32.3nm
7.	eP	A 03 53 40	<u>Talau Islands</u> 4.40 N 127.90 E
	ePP	A 57 50	H = 03 39 47.7 h = 70 km MAG=5.1
	LmH	C 04 43.0	D = 102.84 Az = 324.2 (USCGS)
	LmV	C 45.8	LmH:23s 0.6/um LmV:18s 0.5/um
7.	eP	A 06 32 15	<u>Ethiopia</u> 11.98 N 41.28 E
	LmH	C 53.0	H = 06 23 53.4 h = 33 km MAG=4.6 D = 45.54 Az = 333.8 (USCGS) LmH:19s 0.4/um MPV=4.3
7.	eP	A 09 52 43	<u>Near East Coast of Kamchatka</u> 54.70 N 162.31 E H = 09 41 23.5 h = 64 km MAG=4.9 D = 72.20 Az = 340.9 (USCGS) PV:1.5s 12.6nm MPV=4.7

76

April 1969

Moxa

Day	Phase	h m s	Remarks
7.	eP	A 18 52 16	<u>Hokkaido, Japan Region</u> 42.18 N 142.37 E H = 18 40 19.4 h = normal MAG=4.7 D = 78.06 Az = 330.5 (USCGS)
7.	-eP	A 20 35 02.5	<u>Laptev Sea</u> 76.52 N 130.82 E
	eiX	A 35 07.5	H = 20 26 29.9 h = normal MAG=5.5
	ePP	C 36 50	D = 47.41 Az = 311.0 (USCGS)
	eS	C 42 00	PV:1.8s 128.0nm MPV=5.8
	eSS	C 45 15	XV:2.0s 248.0nm MXV=6.0
	LmH	B 55.7	LmH:18s 2.8/um MLH=5.3
LmV	B 59.0	LmV:18s 3.1/um MLV=5.4	
8.	eP	A 02 22 17	<u>Ethiopia</u> 11.93 N 41.37 E H = 02 13 58.7 h = 34 km MAG=4.8 D = 45.63 Az = 333.8 (USCGS) PV:1.8s 27.0nm MPV=4.9
8.	eP	A 02 55 57.5	<u>Andreanof Islands, Aleutian Is.</u> 51.27 N 179.25 W H = 02 44 00.8 h = 34 km MAG=4.8 D = 78.04 Az = 353.0 (USCGS)
8.	e(P)	A 10 35 56	<u>Molucca Passage</u> 1.44 N 126.28 E H = 10 21 52.4 h = 69 km MAG=5.3 D = 104.27 Az = 323.3 (USCGS)
8.	eiP	A 10 37 50	<u>United Arab Republic</u> 27.50 N 33.72 E
	eS	C 42 44	H = 10 31 52.2 h = 15 km MAG=5.2
	eS	B 42 50	D = 28.58 Az = 329.9 (USCGS)
	eSS	C 43 55	PV:1.8s 74.4nm MPV=5.2
8.	-eiP	A 15 51 35	<u>Albania</u> 40.70 N 19.81 E
	Pm	A 51 37.5	H = 15 48 51.5 h = normal MAG=5.1
	i	A 51 43	D = 11.47 Az = 332.9 (USCGS)
	LmH	B 55.7	PV:1.1s 28.2nm
	LmV	B 56.9	PmV:0.8s 57.7nm
			LmH:16s 3.0/um MLH=4.3 LmV:12s 2.2/um

77

April 1969

Moxa

Day	Phase	h m s	Remarks	
9.	ePP LmH LmV	A C C	12 01 43 42.5 46.0	<u>South of Africa</u> 49.09 S 30.79 E H = 11 43 47.6 h = 23 km MAG=5.8 (USCGS) D = 100.8 LmV:20s 0.6 $\mu$ m MLV=5.2
9.	-iP -ipP LmH LmV	A A C B	13 09 31 09 59 42.4 45.2	<u>Honshu, Japan</u> 36.80 N 139.61 E H = 12 57 24.8 h = 116 km MAG=5.5 D = 81.64 Az = 329.5 (USCGS) PV:1.4s 51.2nm MPV=5.2 LmH:19s 0.6 $\mu$ m LmV:7.5s 0.7 $\mu$ m
9.	ePKP	A	15 21 00	<u>Fiji Islands</u> 21.46 S 179.22 W H = 15 02 19.7 h = 651 km MAG=4.3 D = 149.65 Az = 346.3 (USCGS) PKPV:0.8s 15.4nm
9.	eP	A	16 31 07	<u>Greece</u> 38.25 N 20.08 E H = 16 27 52.4 h = normal MAG=4.5 D = 13.78 Az = 336.8 (USCGS)
10.	-iP e eiS	A A B	15 04 42.5 06 38 13 22	<u>E.Russia-N.E.China Border Region</u> 41.98 N 130.95 E H = 14 54 03.9 h = 555 km MAG=5.6 (USCGS) D = 73.6 PV:1.1s 38.3nm MPV=4.8
10.	eP	A	22 09 55	<u>Northeast of Taiwan</u> 25.77 N 128.85 E H = 21 57 40.4 h = 141 km MAG=5.3 (USCGS) D = 85.8 PV:2.1s 134.0nm MPV=5.4
11.	ePg iSg	A A	15 05 21 05 36	Explosion <u>Hilders/Rhön GDR</u> 50°32.51'N 10°02.42'E H = 15 05 00.7 (Hannover) D = 1.0

78

April 1969

Moxa

Day	Phase	h m s	Remarks	
11.	eP	A	16 31 21	<u>North Atlantic Ridge</u> 52.16 N 29.93 W H = 16 25 52.4 h = normal MAG=4.2 D = 25.72 Az = 76.7 (USCGS) PV:1.0s 9.8nm MPV=4.6
12.	eP Pm e e e i e LmH LmV	A A B A A A B B B	20 41 12 41 15 41 16 41 20 42 25 42 49 43 33 44.9 46.1	<u>Rumania</u> 45.25 N 25.02 E H = 20 38 39.6 h = 8 km MAG=5.2 D = 10.48 Az = 305.8 (USCGS) PV:1.7s 36.4nm PmV:2.2s 218.0nm LmH:17.5s 13.4 $\mu$ m MLH=4.9 LmV:12s 7.8 $\mu$ m
12.	eP	A	23 12 44.5	<u>Turkey-USSR Border Region</u> 40.52 N 43.02 E H = 23 07 31.9 h = normal D = 24.03 Az = 305.4 (USCGS)
13.	eP	A	05 48 28	<u>Sicily</u> 38.84 N 14.83 E H = 05 45 43.2 h = 274 km MAG=4.1 D = 12.02 Az = 350.1 (USCGS) PV:0.8s 17.3nm MPV=5.0
13.	ePKP	A	07 32 59	<u>Fiji Islands</u> 17.34 S 179.30 W H = 07 14 26.4 h = 616 km MAG=4.3 D = 145.64 Az = 347.7 (USCGS)
13.	ePKP	A	07 52 33	<u>Fiji Islands</u> 20.94 S 178.80 W H = 07 33 49.4 h = 579 km MAG=4.3 D = 149.24 Az = 347.0 (USCGS)
13.	eP	A	13 25 01	<u>Ryukyu Islands</u> 29.32 N 129.53 E H = 13 12 37.1 h = 41 km MAG=5.0 D = 83.38 Az = 325.5 (USCGS) PV:1.6s 27.5nm MPV=5.2

79



April 1969

Moxa

Day	Phase	h m s	Remarks
13.	ePKP	A 13 26 33	<u>Tonga Islands</u> 17.65 S 173.08 W H = 13 06 50.8 h = normal MAG=4.7 (USCGS) D = 146.9
13.	eP Pm iS eSS LmH LmV	A 15 35 22 A 35 28 C 43 58 C 48 12 B 16 02.2 B 07.4	<u>India</u> 17.93 N 80.61 E H = 15 24 55.6 h = normal MAG=5.3 D = 63.05 Az = 318.2 (USCGS) PmV:1.4s 163.0nm MPV=6.0 LmH:22s 8.9/um MLH=5.9 LmV:14.5s 3.3/um MLV=5.7
13.	eP e ePP	A 16 21 08 A 21 12.5 A 21 52	<u>United Arab Republic</u> 27.62 N 33.84 E H = 16 15 11.3 h = 16 km MAG=4.8 D = 28.53 Az = 329.7 (USCGS) PV:2.1s 67.0nm MPV=5.1
13.	ePKP epPKP ePP e esPP ei +iSPP eSS eSSS isSSS LmH LmV	A 23 51 33 A 52 13 C 52 30 A 53 16 C 53 24 C 24 00 55 C 02 46 C 08 15 C 11 45 C 12 07.5 B 36.0 B 43.5	<u>Banda Sea</u> 6.13 S 129.92 E H = 23 33 15.4 h = 152 km MAG=5.9 D = 112.45 Az = 322.7 (USCGS) LmH:19s 2.0/um MLH=5.7 LmV:18s 2.3/um MLV=5.8
14.	e(P) LmV LmH	A 13 20 56.5 B 40.8 B 41.3	<u>Southern Iran</u> 27.78 N 54.67 E H = 13 13 21.8 h = 44 km MAG=5.0 D = 39.68 Az = 317.1 (USCGS)
14.	eP e	A 13 49 54 A 49 58.5	<u>United Arab Republic</u> 27.08 N 33.28 E H = 13 43 54.8 h = 16 km MAG=4.9 D = 28.74 Az = 330.7 (USCGS) PV:1.6s 24.8nm MPV=4.8

80

April 1969

Moxa

Day	Phase	h m s	Remarks
14.	eP	A 20 10 09	<u>Kurile Islands</u> 46.78 N 152.57 E H = 19 58 19.7 h = 61 km MAG=4.5 D = 77.27 Az = 335.7 (USCGS) PV:1.8s 23.6nm MPV=4.8
15.	eP e	A 00 59 26 A 59 28.5	<u>Tyrrhenian Sea</u> 39.63 N 14.82 E H = 00 56 51.7 h = 299 km MAG=4.1 D = 11.24 Az = 349.5 (USCGS)
15.	+iP ePP ePPP eS LmH LmV	A 17 43 07.5 B 46 13 E 48 00 C 53 12 B 18 17.9 B 25.4	<u>Off East Coast of Honshu, Japan</u> 39.83 N 143.41 E H = 17 30 55.8 h = 20 km MAG=5.3 D = 80.49 Az = 331.2 (USCGS) PV:1.9s 72.9nm MPV=5.5 LmH:18.5s 7.2/um MLH=6.1 LmV:15s 3.7/um MLV=5.9
15.	ePKIKP	A 18 09 07	<u>New Guinea</u> 6.48 S 142.98 E H = 17 50 20.8 h = 31 km MAG=5.3 (USCGS) D = 118.7 PV:1.4s 16.3nm
15.	ePKP e	A 20 26(03) A 26 07	<u>Loyalty Islands</u> 22.21 S 169.71 E H = 20 06 22.6 h = normal D = 146.84 Az = 334.3 (USCGS)
15.	eP epP esP e	A 22 28 03.5 A 30 13 A 31(20) A 31 35	<u>Java Sea</u> 5.93 S 113.15 E H = 22 15 09.6 h = 575 km MAG=5.6 D = 101.88 Az = 320.4 (USCGS) PV:1.2s 20.3nm MPV=5.5
16.	ePKP e e ePP iPP ePPP esP eSS	A 01 41 43 A 41 46 B 42 32 A 43 13 B 43 16 B 45 28 B 53 00 C 59 40	<u>New Ireland Region</u> 3.54 S 150.97 E H = 01 22 47.5 h = 39 km MAG=5.7 D = 121.97 Az = 330.7 (USCGS) LmH:23s 13.4/um MLH=6.5 LmV:19.5s 4.7/um MLV=6.1

81

April 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
16.	LmH	E 02 32.7	
	LmV	B 38.0	
16.	eP	A 02 11 36	<u>Dodecanese Islands</u> 35.24 N 27.93 E H = 02 07 12.0 h = 56 km MAG=4.5 D = 19.42 Az = 327.5 (USCGS) PV:1.4s 16.3nm MPV=4.8
16.	+eiP	A 04 58 35	<u>Dodecanese Islands</u> 35.25 N 27.94 E
	eP	EC 58 36	H = 04 54 06.3 h = 8 km MAG=4.8
	i	A 58 46	D = 19.42 Az = 327.4 (USCGS)
	eS	C 05 02 08	PV:1.4s 69.7nm MPV=4.7
	LmV	B 07.2	LmV:12s 3.5/um MLV=5.1
	LmH	B 07.3	LmH:11.5s 3.9/um MLH=5.0
16.	eP	A 08 18 54	<u>Red Sea</u> 27.59 N 33.97 E
	e	A 18 58.5	H = 08 12 54.6 h = normal MAG=5.0 D = 28.62 Az = 329.6 (USCGS) PV:1.8s 33.8nm MPV=4.9
16.	ePKIKP	A 12 38 47.5	<u>New Hebrides Islands</u> 13.55 S 166.85 E
	ePP	A 41 36	H = 12 19 40.1 h = 153 km MAG=5.7
	epPP	B 42 21	D = 137.88 Az = 336.6 (USCGS) PKIKPV:1.8s 60.9nm
16.	eP	A 22 52 21.5	<u>Kurile Islands</u> 44.39 N 149.45 E H = 22 40 22.1 h = normal MAG=4.2 D = 78.51 Az = 334.1 (USCGS)
16.	iP	A 23 00 03.5	<u>Dodecanese Islands</u> 35.32 N 27.95 E
	Pm	A 00 07	H = 22 55 37.2 h = 25 km MAG=5.2
	eS	C 03 32	D = 19.36 Az = 327.3 (USCGS)
	LmH	B 07.4	PmV:1.7s 352.0nm MPmV=5.3
	LmV	B 08.8	LmH:15s 5.6/um MLH=5.0 LmV:13s 4.4/um MLV=5.1

82

April 1969

Moxa

Day	Phase	h m s	Remarks
16.	eiP	A 23 25 28.5	<u>Dodecanese Islands</u> 35.34 N 27.77 E
	ei	A 25 34	H = 23 21 04.9 h = 45 km MAG=5.2
	eS	F 28 55	D = 19.26 Az = 327.5 (USCGS)
	LmH	B 32.8	PV:1.2s 89.4nm MPV=4.9
	LmV	B 34.4	LmH:15s 8.6/um MLH=5.2 LmV:9s 5.8/um MLV=5.4
17.	eiP	A 00 59 01.5	<u>Dodecanese Islands</u> 35.06 N 27.70 E
	iX	A 59 06.5	H = 00 54 35.7 h = 54 km MAG=4.8
	eS	C 01 02 36	D = 19.47 Az = 328.0 (USCGS)
	eS	B 02 40	PV:1.6s 76.9nm MPV=4.7
	LmH	B 07.6	XV:1.4s 130.0nm MXV=5.0
	LmV	B 07.7	LmH:12s 3.5/um MLH=4.9 LmV:12.5s 3.1/um MLV=5.0
17.	e	A 03 30 00	<u>West Pakistan</u> 30.07 N 69.92 E
			H = 03 21 16.4 h = 7 km MAG=4.5 D = 47.60 Az = 312.8 (USCGS)
17.	eP	A 05 08 27	<u>Off East Coast of Honshu, Japan</u>
	LmH	B 43.2	39.52 N 143.43 E
	LmV	B 47.8	H = 04 56 15.9 h = 33 km MAG=5.0 D = 80.77 Az = 331.3 (USCGS) PV:1.7s 54.5nm MPV=5.3 LmH:19s 3.5/um MLH=5.8 LmV:20s 1.9/um MLV=5.5
17.	eP	A 09 14 46	<u>Southern Italy</u> 41.57 N 13.85 E
	LmH	B 19.3	H = 09 12 28.9 h = 6 km MAG=4.6
	LmV	B 19.3	D = 9.21 Az = 351.1 (USCGS) LmH:12s 0.4/um MLH=3.5 LmV:13s 0.6/um
17.	eP	A 12 43 05	<u>Dodecanese Islands</u> 35.13 N 27.83 E
	e	A 43 07	H = 12 38 35.6 h = normal MAG=4.7 D = 19.46 Az = 327.8 (USCGS)

83

April 1969

Moxa

Day	Phase	h m s	Remarks
18.	eP	A 08 11 31	<u>Off East Coast of Honshu, Japan</u> 39.77 N 143.39 E H = 07 59 20.3 h = normal MAG=4.5 D = 80.53 Az = 331.2 (USCGS)
18.	LmH	C 08 46.3	Probably <u>Red Sea</u> (USCGS) LmH:18s 0.4/um
18.	eP	A 15 39 17	<u>Northeast of Taiwan</u> 26.19 N 125.41 E H = 15 26 54.3 h = 88 km MAG=4.9 D = 83.82 Az = 324.1 (USCGS)
18.	LmH LmV	B 18 37.5 B 37.5	Probably <u>Gulf of California</u> (USCGS) LmH:17s 0.4/um LmV:18s 0.5/um
19.	ePKP	A 06 26 37.5	<u>Fiji Islands</u> 17.68 S 178.71 W H = 06 08 02.7 h = 605 km MAG=4.7 D = 146.09 Az = 348.2 (USCGS) PKPV:1.6s 16.5nm
19.	eP	A 08 25 10	<u>North Atlantic Ridge</u> 25.24 N 46.66 W H = 08 16 06.5 h = normal MAG=5.0 D = 50.93 Az = 44.2 (USCGS)
19.	eP epP ePP eipPP LmV LmH	A 08 58 42.5 A 58 55 A 09 02 33 A 02 47.5 B 46.9 B 54.0	<u>Southwest of Sumatra</u> 6.22 S 103.92 E H = 08 45 16.0 h = 40 km MAG=5.7 D = 96.22 Az = 320.2 (USCGS) LmV:18s 0.4/um MLV=5.0 LmH:18s 0.7/um MLH=5.2
19.	iP eipP LmV LmH	A 19 37 15 A 37 20 B 20 11.0 B 11.3	<u>Southern Alaska</u> 60.34 N 146.04 W H = 19 26 17.3 h = 21 km MAG=5.1 (USCGS) D = 67.8 PV:1.1s 30.2nm MPV=5.4
19.	LmH LmV	B 23 01.3 B 02.5	Probably <u>Northeast of Taiwan</u> (USCGS)

84

April 1969

Moxa

Day	Phase	h m s	Remarks
20.	eP e LmH LmV	A 16 16 55 A 17 02 B 25.7 B 27.3	<u>North Atlantic Ocean</u> 35.98 N 10.40 W H = 16 12 01.5 h = 29 km MAG=4.6 D = 21.60 Az = 40.4 (USCGS)
21.	eP +ipP eSKS e eSS LmH LmV	A 02 31 45 A 32 02 C 42 07 B 42 14 C 48 00 B 03 10.8 B 13.5	<u>Guatemala</u> 14.10 N 91.02 W H = 02 19 07.1 h = 82 km MAG=5.5 D = 87.04 Az = 38.5 (USCGS) PV:1.3s 26.2nm MPV=5.1 pPV:1.7s 39.4nm LmH:21s 2.9/um LmV:18.5s 2.4/um
21.	+iP e ePP ePPP eiS ePS LmH LmV	AB 07 31 45 B 32 05 B 34 49 B 36 39 B 38 23 B 41 57 B 42 43 B 08 12.6 B 13.2	<u>Kyushu, Japan</u> 32.19 N 131.86 E H = 07 19 27.5 h = 41 km MAG=6.1 D = 82.13 Az = 326.3 (USCGS) PV(A):2.0s 847.0nm MPV=6.5 PV(B):9s 4.64/um MPV=6.6 LmH:15s 114.0/um MLH=7.4 LmV:15s 138.0/um MLV=7.5
21.	eP ei LmV LmH	A 17 23 43 A 23 46 B 34.5 B 36.1	<u>Iceland</u> 61.94 N 26.68 W H = 17 18 34.2 h = normal MAG=4.6 D = 23.69 Az = 100.8 (USCGS)
21.	eP	A 18 11 07.5	<u>Mid-Indian Rise</u> 14.40 S 66.54 E H = 17 58 56.9 h = normal MAG=4.8 D = 80.56 Az = 328.1 (USCGS) PV:1.4s 14.0nm MPV=4.8
21.	eP eiX LmH LmV	A 20 40 09 A 40 19.5 B 45.3 A 46.5	<u>Aegean Sea</u> 39.47 N 25.20 E H = 20 36 43.3 h = normal MAG=4.8 D = 40.70 Az = 323.9 (USCGS) XV:1.3s 34.9nm LmH:12s 4.4/um MLH=4.8 LmV:9s 2.1/um

85

April 1969

Moxa

Day	Phase	h m s	Remarks
21.	eP	A 21 01 57.5	<u>Dodecanese Islands</u> 36.38 N 28.58 E
	i	A 02 01	H = 20 57 39.6 h = 36 km MAG=4.4
	i(pP)	A 02 11.5	D = 18.77 Az = 324.7 (USCGS)
	i(sP)	A 02 16.5	PV:1.2s 28.5nm MPV=4.4
21.	eP	A 22 33 09.5	<u>Greenland Sea</u> 74.20 N 9.67 E
	iX	A 33 11	H = 22 27 59.5 h = normal MAG=5.0
	e	B 33 14	D = 23.65 Az = 176.9 (USCGS)
	LmV	B 44.3	XV:1.6s 104.0nm MXV=5.1
	LmH	B 44.4	LmV:16s 0.8/um MLV=4.4 LmH:18s 0.7/um MLH=4.2
22.	e	A 00 42 54	Probably <u>Guatemala</u> (USCGS)
22.	ePKIKP	A 06 51 14	<u>Easter Island</u> 26.77 S 114.13 W
	ePP	B 53 36	H = 06 31 57.5 h = normal MAG=5.6
	iPKS	B 54 47	D = 132.69 Az = 44.7 (USCGS)
	iSKKS	B 07 00 40	PKIKPV:1.8s 40.6nm
	eSS	C 11 10	LmV:22s 5.8/um
	eSSS	C 16 42	LmH:20.5s 5.1/um MLH=6.2
	eSSSS	C 20.0	
	LmV	B 40.2	
	LmH	B 40.3	
	22.	iPKP	A 07 57 08
22.	+iP	A 08 23 30.8	<u>Off East Coast of Honshu, Japan</u>
	e	A 23 36	39.80 N 143.00 E
	LmH	B 59.0	H = 08 11 21.6 h = 36 km MAG=5.5
	LmV	B 09 05.0	D = 80.36 Az = 331.0 (USCGS) PV:1.8s 155.0nm MPV=5.7 LmH:18s 6.6/um MLH=6.0 LmV:14s 4.5/um MLV=6.0

86

April 1969

Moxa

Day	Phase	h m s	Remarks
22.	-iP	A 22 43 55.3	<u>Arabian Sea</u> 12.96 N 58.23 E
	ePP	A 45 56	H = 22 34 38.4 h = 33 km MAG=5.7
	eS	C 51 31	D = 53.26 Az = 324.7 (USCGS)
	eSS	C 55 10	PV:2.0s 179.0nm MPV=5.7
	eSSS	C 56 40	LmV:16s 1.2/um MLV=5.1
	LmV	B 23 10.9	LmH:14s 1.3/um MLH=5.1
	LmH	B 11.4	
23.	eP	A 13 43 16.9	<u>United Arab Republic</u> 27.59 N 33.94 E H = 13 37 21.0 h = 28 km MAG=5.0 D = 28.60 Az = 329.7 (USCGS) PV:0.8s 11.5nm MPV=4.8
24.	eP	A 02 30 24	<u>Andreanof Islands, Aleutian Is.</u>
	e	A 30 58	52.78 N 172.51 W
	e	A 31 36.5	H = 02 18 44.3 h = 135 km MAG=5.2 (USCGS) D = 76.8
24.	ePKIKP	A 07 45 37	<u>Fiji Islands</u> 21.20 S 176.97 W
	+iPKHKP	A 45 42.7	H = 07 26 20.4 h = 250 km MAG=4.9 D = 149.85 Az = 349.1 (USCGS) PKIKPV:1.4s 23.3nm PKHKPV:1.6s 181.0nm
24.	iP	A 14 50 06.8	<u>Dodecanese Islands</u> 36.36 N 28.67 E
	e	A 50 17	H = 14 45 48.0 h = 48 km MAG=4.7
	iS	B 53 40	D = 18.83 Az = 324.6 (USCGS)
	LmH	B 56.7	PV:1.5s 80.4nm MPV=4.7
	LmV	B 15 00.1	LmH:15s 1.7/um MLH=4.5 LmV:11s 0.6/um MLV=4.4
25.	ePKHKP	A 01 51 13	<u>South of Fiji Islands</u> 22.21 S 179.55 W
	ePKP2	A 51 22	H = 01 32 22.9 h = 542 km MAG=4.6 D = 150.30 Az = 345.6 (USCGS) PKIKPV:1.0s 11.8nm
25.	eP	A 03 47 01	<u>South of Panama</u> 7.45 N 82.08 W
	eX	A 47 03	H = 03 34 17.7 h = 25 km MAG=5.4
	eS	B 57 40	D = 86.64 Az = 39.5 (USCGS)

87

April 1969

MOxa

Day	Phase	h m s	Remarks
cont.			
25.	LmH	B 04 20.4	XV:1.6s 33.0nm MXV=5.3
	LmV	B 20.4	LmH:22s 3.7 $\mu$ m MLH=5.8 LmV:22s 1.7 $\mu$ m MLV=5.4
25.	-eP	A 07 45 10.5	<u>West Pakistan</u> 30.83 N 70.33 E
	LmH	E 08 09.0	H = 07 36 36.2 h = 23 km MAG=4.9
	LmV	B 09.7	D = 47.34 Az = 312.3 (USCGS) PV:1.5s 37.7nm MPV=5.3 LmV:16s 0.3 $\mu$ m MLV=4.4
25.	eP	A 09 25 03	<u>Alaska Peninsula</u> 56.64 N 156.70 W
	epP	A 25 17.5	H = 09 13 40.6 h = 64 km MAG=4.6 D = 72.65 Az = 7.8 (USCGS) PV:1.0s 19.7nm MPV=5.0
25.	ePg	A 10 05 24	<u>Böhmischbruck, explosion</u>
	eSg	A 05 39	49°34.11'N 12°21.36'E H = 10 05 01.19 yield 3.5 to (München, ASFA) D = ca. 1.1
25.	eP	A 10 40 36.5	<u>Costa Rica</u> 8.05 N 83.16 W H = 10 27 55.8 h = 53 km MAG=4.5 D = 86.86 Az = 39.5 (USCGS)
25.	ePKP2	A 13 36 16	<u>South of Fiji Islands</u> 24.89 S 179.77 E H = 13 16 58.9 h = 459 km MAG=4.7 (USCGS) D = 151.8
25.	eP	A 21 47 32	<u>Off East Coast of Honshu, Japan</u>
	LmH	B 22 27.6	39.72 N 143.18 E
	LmV	B 29.0	H = 21 35 23.8 h = 50 km MAG=4.4 D = 80.50 Az = 331.1 (USCGS)
26.	eP	B 06 17 12	<u>Near Coast of Central Chile</u>
	e	A 17 38.5	30.58 S 71.37 W
	e	A 17 43	H = 05 58 49.0 h = 23 km MAG=5.6
	e	A 17 55	D = 108.86 Az = 41.9 (USCGS)
	ePP	A 21 40	LmH:20.5s 13.9 $\mu$ m MLH=6.5

88

April 1969

MOxa

Day	Phase	h m s	Remarks
cont.			
26.	e	E 06 27 16	LmV:18s 14.1 $\mu$ m MLV=6.6
	ePS	E 31 12	
	LmH	E 07 04.0	
	LmV	E 08.0	
26.	eP	A 08 29 30	<u>Dodecanese Islands</u> 36.66 N 28.49 E H = 08 25 14.5 h = normal MAG=4.3 D = 18.50 Az = 324.4 (USCGS)
26.	eP	A 22 23 01	<u>Fox Islands, Aleutian Is.</u> 52.73 N 168.67 W H = 22 11 09.9 h = 31 km MAG=4.3 D = 77.60 Az = 359.8 (USCGS) PV:1.1s 10.1nm MPV=4.9
27.	ePP	A 01 55 22	<u>Northern Celebes</u> 0.86 N 120.05 E
	e	A 55 32.5	H = 01 37 14.5 h = 12 km MAG=5.4 (USCGS)
	eSKS	C 02 01 40	D = 100.8
	ePS	C 03 10	LmV:20s 0.5 $\mu$ m MLV=5.0
	eSS	C 09.7	LmH:18s 0.4 $\mu$ m MLH=5.0
	LmV	B 44.9	
	LmH	B 46.0	
27.	+iP	A 11 02 41	<u>Dodecanese Islands</u> 36.46 N 28.35 E
	e	A 02 52.5	H = 10 58 22.0 h = 15 km MAG=4.7
	eS	C 06 06	D = 18.60 Az = 324.9 (USCGS)
	LmH	B 10.7	PV:1.5s 106.0nm MPV=4.8
	LmV	B 10.8	LmH:11s 1.8 $\mu$ m MLH=4.6 LmV:12s 2.0 $\mu$ m MLV=4.8
27.	LmH	B 14 01.4	Probably <u>South Sandwich Islands Region</u>
	LmV	B 01.9	(USCGS) LmH:20s 0.5 $\mu$ m LmV:20s 0.6 $\mu$ m
28.	eiPKIKP	A 07 44 42.5	<u>South of Fiji Islands</u> 22.36 S 177.66 W
	e	B 44 44	H = 07 25 30.0 h = 296 km MAG=5.9
	eiPKHKP	A 44 48	D = 150.85 Az = 347.8 (USCGS)

89

April 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
28.	iPKP2	A 07 44 56.4	PKIKPV:1.1s 24.2nm PKP2V:1.2s 28.4nm
28.	-eP	A 13 01 01.5	<u>Burma-India Border Region</u>
	+iP	A 01 02	25.91 N 95.27 E
	e	A 01 20	H = 12 50 15.2 h = 50 km MAG=5.2
	e(PP)	A 02 19.5	D = 66.52 Az = 316.4 (USCGS) PV:1.3s 43.7nm MPV=5.5
28.	ePKP2	A 18 18 19.5	<u>Kermadec Islands Region</u> 30.27 S 177.84 W H = 17 57 51.4 h = 49 km MAG=4.9 (USCGS) D = 158.5
28.	ePKIKP	A 19 58 08	<u>Solomon Islands</u> 7.89 S 158.78 E
	epPKIKP	A 58 24.5	H = 19 39 05.5 h = 77 km MAG=5.7
	ePP	A 20 00(19)	D = 129.43 Az = 333.5
	eipPP	A 00 35	PKIKPV:1.7s 42.4nm
	LmH	B 59.6	LmH:20s 0.5/um
	LmV	E 59.6	LmV:20s 0.5/um
28.	+iP	A 23 33 22	<u>Southern California</u> 33.35 N 116.35 W
	i	A 33 51.5	H = 23 20 42.9 h = 20 km MAG=5.7
	eS	C 43 52	D = 84.60 Az = 30.3 (USCGS)
	LmH	B 00 09.5	H = 23 20 48 M = 5.4 33.4 N 117.3 W
	LmV	B 12.6	(AN USSR) D = 85.0 PV:1.9s 174.2nm MPV=6.0 LmH:20s 4.6/um MLH=5.8 LmV:17s 2.8/um MLV=5.7
29.	+iP	A 04 44 43.5	<u>Southern Iran</u> 29.57 N 51.48 E
	eS	C 50 19	H = 04 37 40.7 h = 36 km MAG=5.6
	LmV	B 05 03.1	D = 36.45 Az = 316.6 (USCGS)
	LmH	B 03.6	PV:1.4s 123.0nm MPV=5.5 LmV:20s 1.1/um MLV=4.7 LmH:19s 0.9/um MLH=4.6

90

April 1969

Moxa

Day	Phase	h m s	Remarks
29.	+eP	A 21 30 04.5	<u>Kurile Islands</u> 46.49 N 153.09 E
	e	A 30 10.5	H = 21 18 09.3 h = normal MAG=5.1
	LmH	B 22 06.0	D = 77.68 Az = 336.1 (USCGS)
	LmV	B 07.0	PV:1.6s 49.5nm MPV=5.4 LmH:15.5s 1.4/um MLH=5.4 LmV:18s 1.0/um MLV=5.2
30.	eP	A 17 12 18.5	<u>Southern Nevada</u> 37.09 N 116.01 W
			H = 17 00 00.0 h = 0 km MAG=5.3
			D = 81.25 Az = 30.7 (USCGS)
			Nevada, underground explosion (UPP) PV:1.3s 26.2nm MPV=5.1
30.	eP	A 20 24 25	<u>Turkey</u> 39.16 N 28.59 E
	ei	A 24 29.5	H = 20 20 31.9 h = 9 km MAG=5.1
	ei	A 24 34	D = 16.58 Az = 319.4 (USCGS)
	eS	C 27 35	LmH:12s 9.0/um MLH=5.2
	LmH	B 30.2	LmV:11s 5.8/um MLV=5.2
	LmV	B 33.5	

91

May 1969

Moxa

Day	Phase	h m s	Remarks
1.	ePKP e	A A	03 04 41.5 04 52.5 <u>Eastern Island Cordillera</u> 49.97 S 114.31 W H = 02 45 05.0 h = normal MAG=4.9 D = 146.10 Az = 67.6 (USCGS)
1.	+iPKHKP LmV LmH	A B B	03 31 47.5 04 05.5 06.0 <u>Tonga Islands</u> 20.96 S 174.58 W H = 03 11 58.3 h = normal MAG=5.0 D = 149.97 Az = 352.1 (USCGS) PKHKPV:1.3s 37.2nm LmV:20s 0.9/um LmH:20s 1.1/um MLH=5.6
1.	ePKHKP	A	05 25 44 <u>Tonga Islands</u> 21.41 S 174.57 W H = 05 05 55.8 h = 32 km MAG=5.0 D = 150.42 Az = 352.0 (USCGS) PKHKPV:1.5s 30.2nm
1.	ePKP	A	13 36 51 <u>Fiji Islands</u> 18.03 S 178.42 W H = 13 18 12.2 h = 554 km MAG=4.2 D = 146.49 Az = 348.4 (USCGS)
1.	eP1 +iP2 eS LmV LmH	A A C B B	18 06 36.5 06 39.5 10 16 15.2 15.3 <u>Dodecanese Islands</u> 35.36 N 27.72 E H = 18 02 14.6 h = 37 km MAG=5.2 D = 19.22 Az = 327.6 (USCGS) P2V:1.4s 291.0nm MP2V=5.3 LmV:12s 2.8/um MLV=4.9 LmH:12s 3.1/um MLH=4.8
1.	-eiPKP -ipPKP ePP	A B B	19 24 40 25 32 28 00 <u>Tonga Islands</u> 16.80 S 174.67 W H = 19 05 24.7 h = 205 km MAG=6.0 D = 145.86 Az = 352.9 (USCGS) PKPV:1.6s 1780.0nm
1.	LmV LmH	B B	19 32.5 43.5 Probably <u>Northern Celebes</u> (USCGS) LmV:12s 0.5/um LmH:16s 0.4/um

92

May 1969

Moxa

Day	Phase	h m s	Remarks
1.	eP Pm iS LmH LmV	AB A B B B	20 11 05 11 14.5 14 48 18.4 21.2 <u>Dodecanese Islands</u> 35.32 N 27.64 E H = 20 06 40.9 h = 32 km MAG=4.7 D = 19.22 Az = 327.7 (USCGS) PV(B):8s 0.5/um MPV=4.8 PmV(A):1.7s 169.0nm MPV=5.0 LmH:18.5s 9.6/um MLH=5.2 LmV:13s 3.4/um MLV=5.0
1.	eP	A	20 48 37.5 <u>Dodecanese Islands</u> 34.97 N 27.51 E H = 20 44 15.8 h = normal MAG=4.4 (USCGS) D = 19.5 PV:1.3s 10.9nm MPV=3.9
2.	e eS LmH LmV	A B B B	18 42 48.5 46 30 52.1 52.2 <u>Crete</u> 34.33 N 26.19 E H = 18 38 13.0 h = 21 km MAG=4.3 D = 19.47 Az = 331.3 (USCGS) LmH:13s 0.8/um MLH=4.2 LmV:15s 0.8/um MLV=4.3
2.	eP LmH LmV	A B B	20 52 14. 21 26.5 31.0 <u>Off East Coast of Honshu, Japan</u> 40.90 N 143.04 E H = 20 40 11.3 h = 54 km MAG=4.7 D = 79.42 Az = 330.9 (USCGS) LmH:19s 0.6/um MLH=5.0 LmV:18s 0.5/um MLV=5.0
2.	+iP e	A A	22 57 48 58 04.5 <u>Near East Coast of Honshu, Japan</u> 40.14 N 142.29 E H = 22 45 44.0 h = 60 km MAG=4.8 D = 79.80 Az = 330.6 (USCGS) PV:0.8s 11.5nm MPV=4.9
3.	eP	A	03 29 58 <u>Dodecanese Islands</u> 35.35 N 27.90 E H = 03 25 33.3 h = 45 km MAG=4.4 D = 19.31 Az = 327.3 (USCGS) PV:1.4s 14.0nm MPV=4.0

93

May 1969

Moxa

Day	Phase	h m s	Remarks
3.	ePKHKP A	13 12 18.5	<u>South of Fiji Islands</u> 23.49 S 179.99 E
	ePKP2 A	12 30.5	H = 12 53 25.5 h = 543 km MAG=4.8
	epPKHKP A	14 28	D = 151.42 Az = 344.4 (USCGS)
3.	eP A	20 35 38	<u>Dodecanese Islands</u> 35.24 N 27.81 E
	e A	35 45	H = 20 31 13.6 h = 44 km MAG=4.6
	e A	35 58	D = 19.36 Az = 327.6 (USCGS)
	LmH B	44.4	PV:0.9s 7.8nm MPV=3.9
	LmV B	44.4	LmH:9s 0.3/um MLH=3.9 LmV:11s 0.2/um MLV=3.8
4.	eP A	03 30 06	<u>Afghanistan-USSR Border Region</u> 36.36 N 71.53 E
			H = 03 22 03.7 h = 126 km MAG=4.6
			D = 44.54 Az = 308.2 (USCGS)
4.	-ePKP A	07 26 36.5	<u>Fiji Islands</u> 17.65 S 178.86 W
	eX A	26 39	H = 07 08 01.4 h = 578 km MAG=5.0
	epPKP A	28 55	D = 146.03 Az = 348.0 (USCGS) PXV:1.8s 128.0nm.
4.	ePKP A	12 56 07	<u>New Hebrides Islands</u> 17.40 S 168.86 E
	ePP B	59 15	H = 12 36 33.4 h = 11 km MAG=5.5
	e B	59 50	D = 142.16 Az = 336.3 (USCGS)
	e B	13 00 48	PKPV:1.6s 30.2nm
	e B	02 16	LmH:21s 1.9/um MLH=5.8
	LmH B	14 03.0	LmV:21s 2.2/um
4.	eP A	13 57 34.5	<u>Southern Sinkiang Prov., China</u> 41.49 N 86.73 E
	eX A	57 46	H = 13 48 33.6 h = 32 km MAG=4.7 (USCGS)
	eY A	57 50	D = 50.8 XV:1.5s 12.6nm MXV=4.6 YV:1.2s 16.3nm MYV=4.8
4.	eP A	17 32 22.5	<u>Northern Celebes</u> 0.01 N 123.31 E
	ePP A	36 54	H = 17 18 38.8 h = 165 km MAG=5.5
	epPP A	37 33	D = 103.60 Az = 322.5 (USCGS) PV:1.2s 12.2nm MPV=5.7

94

May 1969

Moxa

Day	Phase	h m s	Remarks
4.	ePKP2 A	18 03 29.5	<u>Kermadec Islands</u> 29.17 S 179.15 W
			H = 17 43 38.9 h = 319 km MAG=4.2 (USCGS) D = 157.0 PKP2V:1.1s 8.1nm
5.	ePKHKP A	02 28 57	<u>West of Macquarie Island</u>
	ePKP2 A	29 10	57.82 S 147.63 E H = 02 08 57.2 h = normal MAG=4.9 D = 153.71 Az = 273.3 (USCGS) PKHKPV:1.6s 27.5nm
5.	+eP A	02 53 57.5	<u>Ethiopia</u> 11.94 N 41.29 E
	e A	54 23.5	H = 02 45 38.9 h 3 35 km MAG=5.2
	eS C	03 00 45	D = 45.58 Az = 333.8 (USCGS)
	LmV B	52.0	PV:1.6s 33.0nm MPV=5.1
	LmH B	53.0	LmV:20s 0.6/um MLV=4.6 LmH:20s 0.4/um MLH=4.4
5.	ePKHKP A	05 37 16	<u>West of Macquarie Island</u>
	eX A	37 20	58.06 S 148.37 E
	e A	37 33.5	H = 05 17 16.6 h = normal MAG=4.9 D = 154.12 Az = 272.3 (USCGS) XV:1.3s 8.7nm
5.	+iP1 A	05 39 13.1	<u>North Atlantic Ocean</u> 36.02 N 10.39 W
	iP2 A	39 14.6	H = 05 34 23.6 h = 29 km MAG=5.5
	+eS B	43 08	D = 21.56 Az = 40.5 (USCGS)
	LmH B	46.5	P1V:1.4s 251.0nm MP1V=5.4
	LmV B	49.8	P2V:1.5s 613.0nm MP2V=5.8 LmH:20s 6.7/um MLH=5.1 LmV:15.5s 4.0/um MLV=5.1
	e A	14 11 34	<u>Near Coast of Central Chile</u> 30.79 S 71.76 W
5.	LmV B	57.9	H = 13 52 39.6 h = 38 km MAG=5.3
	LmH B	58.1	D = 109.24 Az = 42.1 (USCGS) LmV:18s 2.1/um MLV=5.8 LmH:19s 2.1/um MLH=5.7

95



May 1969

Moxa

Day	Phase	h m s	Remarks
5.	eP	A 14 23 23	<u>Crete</u> 34.67 N 23.45 E H = 14 19 14.6 h = 64 km MAG=4.3 D = 18.15 Az = 335.2 (USCGS)
5.	ePKP	A 14 34 55	<u>South of Australia</u> 44.22 S 141.45 E H = 14 15 16.9 h = 25 km MAG=- D = 146.01 Az = 299.0 (USCGS)
5.	eP1	A 21 52 25	<u>Iceland</u> 66.78 N 18.24 W
	iP2	A 52 26	H = 21 47 31.7 h = normal MAG=5.2
	+eiP3	A 52 31	D = 22.05 Az = 122.4 (USCGS)
	+iS	B 56 32	P2V:1.6s 46.7nm MP2V=4.8
	eS	A 56 35	P3V:1.5s 88.0nm MP3V=5.0
	LmH	B 22 01.1	SH:16s 3.8/um MSH=5.6
	LmV	B 02.9	LmH:18s 7.7/um MLH=5.2 LmV:16s 5.1/um MLV=5.2
6.	eP	A 22 23 44	<u>Dodecanese Islands</u> 35.18 N 27.73 E
	e	A 23 51	H = 22 19 19.0 h = 34 km MAG=4.4
	LmH	B 31.0	D = 19.38 Az = 327.8 (USCGS)
	LmV	B 33.8	PV:1.5s 20.1nm MPV=4.1 LmH:17s 0.5/um MLH=3.9 LmV:12s 0.3/um MLV=3.9
7.	eP	A 09 05 58	<u>Samar, Philippine Islands</u>
	ePP	A 09 50	12.06 N 124.60 E H = 08 52 50.8 h = 134 km MAG=5.2 D = 94.77 Az = 324.0 (USCGS) PPV:1.7s 30.3nm
7.	ePKP2	A 09 41 35	<u>Kermadec Islands</u> 31.18 S 179.17 W H = 09 21 18.5 h = 158 km MAG=4.9 (USCGS) D = 158.8 PKP2V:1.2s 22.4nm
7.	+iP	A 13 57 17.5	<u>Southern Nevada</u> 37.28 N 116.50 W
	ePP	A 14 00 23	H = 13 45 00.0 h = 0 km MAG=5.8 D = 81.28 Az = 30.4 (USCGS)

96

May 1969

Moxa

Day	Phase	h m s	Remarks
cont. 7.			37°16'58"N 116°30'02"W Nevada test site "PURSE" (USAEC) PV:1.3s 56.8nm MPV=5.4
7.	ePKIKP	A 22 36 30	<u>New Britain Region</u> 52.39 S 152.72 E
	e(PP)	A 39 30.5	H = 22 17 35.4 h = 54 km MAG=5.1 D = 124.29 Az = 331.1 (USCGS)
8.	ePKP	A 00 42 32	<u>Loyalty Islands</u> 20.42 S 168.37 E
	e	A 42 38.5	H = 00 22 56.2 h = 63 km MAG=4.3 D = 144.69 Az = 334.2 (USCGS)
9.	eP	A 07 13 00.5	<u>Greece</u> 38.39 N 20.37 E
	e	A 13 03	H = 07 09 43.6 h = 13 km MAG=4.6
	e	A 13 10	D = 13.74 Az = 335.9 (USCGS)
9.	eP	A 17 11 27	<u>Kurile Islands Region</u> 47.73 N 155.56 E H = 16 59 34.0 h = normal (USCGS) D = 77.2
10.	e	A 07 27 39	<u>France</u> 45.4 N 6.5 E
	e	A 27 45	H = 07 24 26 (BCIS)
	e	A 27 50	D = 6.3
10.	eP	A 09 33 56	<u>Red Sea</u> 27.50 N 34.18 E
	e	A 34 00	H = 09 27 57.0 h = normal MAG=4.8
	e	A 34 07	D = 28.79 Az = 329.5 (USCGS)
	e	A 34 25	PV:1.4s 21.0nm MPV=4.8
	LmH	B 50.3	
	LmV	E 51.4	
10.	ePKP2	A 12 26 27.5	<u>Kermadec Islands</u> 28.15 S 178.11 W H = 12 06 27.3 h = 196 km MAG=4.7 D = 156.35 Az = 344.4 (USCGS) PKP2V:1.4s 18.6nm

97

May 1969

Moxa

Day	Phase	h m s	Remarks
10.	eP e	A 13 09 14.5 A 09 21	<u>Kodiak Island</u> 56.36 N 153.63 W H = 12 57 47.8 h = normal MAG=4.9 D = 72.66 Az = 9.8 (USCGS) PV:1.2s 20.3nm MPV=5.1
10.	eP LmH LmV	A 13 36 08.5 E 44.0 E 46.2	<u>North Atlantic Ocean</u> 36.07 N 10.82 W H = 13 31 15.2 h = normal MAG=4.3 (USCGS) D = 31.8 PV:1.2s 16.3nm MPV=4.3
10.	iPg eSg	A 15 06 36.5 A 06 51	Explosion, yield 8 to (CLL) 51°22.3'N 12°53.5'E D = 1.0
10.	eP e e LmH LmV	A 21 13 17 A 13 27 A 14 37 E 17.3 E 18.2	<u>Albania</u> 41.29 N 20.26 E H = 21 10 37.1 h = 42 km MAG=4.4 D = 11.11 Az = 330.3 (USCGS) PV:1.4s 14.0nm LmH:7.5s 1.3 $\mu$ m MLH=4.3
11.	eP	A 00 27 45	<u>Arabian Sea</u> 14.34 N 56.75 E H = 00 18 41.9 h = 32 km MAG=5.1 D = 51.31 Az = 324.7 (USCGS) PV:2.4s 76.0nm MPV=5.2
11.	eP1 eP2 LmV LmH	A 00 46 53 A 46 57 E 55.6 E 56.5	<u>Dodecanese Islands</u> 35.24 N 27.81 E H = 00 42 28.8 h = 55 km D = 19.36 Az = 327.6 (USCGS) P2V:1.7s 21.2nm MPV=4.1
11.	ePKP2	A 00 59 40	<u>Kermadec Islands Region</u> 30.35 S 177.85 W H = 00 39 11.7 h = 35 km MAG=4.7 (USCGS) D = 158.4
11.	eP e	A 10 54 33 A 54 37.5	<u>Kurile Islands</u> 44.97 N 148.58 E H = 10 42 46.6 h = 112 km MAG=4.7 D = 77.71 Az = 333.6 (USCGS)

98

May 1969

Moxa

Day	Phase	h m s	Remarks
11.	ePKIKP ePKHKP ePKP2	A 14 36 57.5 A 37 02.5 A 37 12	<u>Tonga Islands</u> 21.82 S 175.09 W H = 14 17 11.9 h = normal MAG=5.1 D = 150.75 Az = 351.2 (USCGS) PKHKPV:1.8s 71.0nm
11.	eP LmV LmH	A 15 36 30.5 E 50.9 E 53.0	<u>Eastern Mediterranean Sea</u> 35.48 N 28.72 E H = 15 32 02.1 h = normal D = 19.57 Az = 326.0 (USCGS) LmH:18s 0.4 $\mu$ m MLH=3.9
11.	eP	A 16 27 35	<u>Dodecanese Islands</u> 35.21 N 27.83 E H = 16 23 03.8 h = 29 km MAG=4.1 D = 19.40 Az = 327.6 (USCGS) PV:1.6s 19.2nm MPV=4.1
2.	ePKP	A 07 44 19	<u>Tonga Islands</u> 16.01 S 175.14 W H = 07 25 16.5 h = 302 km MAG=4.6 D = 145.03 Az = 352.5 (USCGS)
12.	e	A 11 05 46	<u>Chiapas, Mexico</u> 16.98 N 94.69 W H = 10 52 58.0 h = 92 km MAG=3.7 (USCGS) D = 86.8
12.	eP epP	A 16 40 55 A 41 11	<u>Southern Greece</u> 37.74 N 22.70 E H = 16 37 24.6 h = 86 km D = 15.13 Az = 332.0 (USCGS)
12.	ePKHKP ePKP2	A 19 35 13 A 35 24	<u>Tonga Islands</u> 21.68 S 175.67 W H = 19 15 48.3 h = 260 km MAG=5.0 D = 150.53 Az = 350.6 (USCGS) PKHKPV:1.8s 30.4nm
13.	eP	A 10 12 27	<u>Tadzhik SSR</u> 39.94 N 70.86 E H = 10 04 38.6 h = normal MAG=4.8 D = 41.98 Az = 305.1 (USCGS)

99

May 1969

Moxa

Day	Phase	h m s	Remarks
13.	+eP	A 14 29 26	<u>Near Coast of Nicaragua</u> 11.47 N 86.36 W H = 14 16 52.8 h = 79 km MAG=5.6 D = 86.23 Az = 39.2 (USCGS) PV:1.4s 23.3nm MPV=5.0 LmV:20s 20.9 $\mu$ m LmH:19.5s 19.2 $\mu$ m
	e	A 29 50	
	e	A 30 00	
	ePP	A 33 08	
	eS	B 40 00	
	e(PKPPKS)	A 58 54.5	
	e	A 59 11	
	LmV	B 15 04.9	
	LmH	B 05.7	
13.	eiP	A 14 32 00	<u>Near East Coast of Honshu, Japan</u> 36.40 N 140.49 E H = 14 19 44.8 h = 75 km MAG=5.4 (USCGS) D = 82.2 PV:1.1s 28.2nm MPV=5.1
13.	e(PKP)	A 14 48 09	<u>Flores Sea</u> 7.20 S 120.88 E H = 14 30 19.6 h = 616 km MAG=5.6 (USCGS) D = 107.7
	e(pPKP)	A 50 15	
13.	eP	A 17 51 57	<u>Turkey</u> 39.13 N 28.51 E H = 17 48 02.4 h = 38 km MAG=4.5 D = 16.57 Az = 319.6 (USCGS) PV:1.6s 27.5nm MPV=4.3
14.	eP	A 08 17 04.5	<u>Dodecanese Island</u> 35.23 N 27.73 E H = 08 12 38.0 h = 29 km MAG=4.4 D = 19.33 Az = 327.7 (USCGS)
14.	eP1	A 10 09 39.5	<u>Dodecanese Islands</u> 35.34 N 27.81 E H = 10 05 15.8 h = 34 km MAG=5.1 D = 19.28 Az = 327.5 (USCGS) P1V(A):1.4s 226.0nm MP1V=5.2 P2V(B):12s 1.1 $\mu$ m MP2V=5.0 LmH:14.5s 4.0 $\mu$ m MLH=4.9 LmV:14s 3.3 $\mu$ m MLV=5.0
	+iP2	AB 09 40.5	
	i	A 09 49	
	eS	B 13 12	
	LmH	B 16.9	
	LmV	B 19.8	

May 1969

Moxa

Day	Phase	h m s	Remarks
14.	+iP	AB 19 44 52	<u>Andreanof Islands, Aleutian Is.</u> 51.28 N 179.93 W H = 19 32 54.2 h = 21 km MAG=6.2 D = 77.98 Az = 352.5 (USCGS) PV(E):12s 11.5 $\mu$ m MPV=6.9 LmH:17.5s 56.2 $\mu$ m MLH=7.0 LmV:18s 29.3 $\mu$ m MLV=6.7
	ePP	B 47 54	
	ePPP	B 49 45	
	eiS	B 54 40	
	eiSS	B 20 00 10	
	LmH	E 23.4	
	LmV	E 28.4	
14.	eP	A 20 22 38	<u>Andreanof Islands, Aleutian Is.</u> 51.32 N 179.86 W H = 20 10 39.3 h = 15 km MAG=5.3 D = 77.95 Az = 352.6 (USCGS) PV=1.0s 17.7nm MPV=5.2
14.	eP	A 20 46 09.5	<u>Kurile Islands</u> 43.25 N 146.50 E H = 20 34 09.7 h = normal MAG=5.0 D = 78.57 Az = 332.6 (USCGS) PV:1.6s 27.5nm MPV=5.1
	e	A 46 18	
14.	eP	A 24 01 29.5	<u>Turkey</u> 39.16 N 28.35 E H = 23 57 34.8 h = 39 km MAG=4.6 D = 16.46 Az = 319.7 (USCGS)
15.	eP	A 02 33 37	<u>Andreanof Islands, Aleutian Is.</u> 51.32 N 179.94 W H = 02 21 40.6 h = 33 km MAG=4.6 D = 77.94 Az = 352.5 (USCGS)
15.	eP	A 03 41 32.5	<u>Kurile Islands</u> 46.99 N 152.81 E H = 03 29 40.9 h = 37 km MAG=4.5 D = 77.15 Az = 335.8 (USCGS)
15.	eP	A 12 10 21	<u>Dodecanese Islands</u> 35.37 N 27.83 E H = 12 05 55.5 h = 32 km MAG=4.9 D = 19.27 Az = 327.4 (USCGS) PV:1.2s 52.8nm MPV=4.6 LmH:14.5s 1.4 $\mu$ m MLH=4.4 LmV:15s 1.2 $\mu$ m MLV=4.5
	eS	B 13 52	
	e	B 14 07	
	LmH	B 18.0	
	LmV	B 20.3	

May 1969

Moxa

Day	Phase	h m s	Remarks
15.	eP	A 13 59 36.5	<u>Dodecanese Islands</u> 35.25 N 27.68 E H = 13 55 12.3 h = 52 km MAG=4.5 D = 19.30 Az = 327.8 (USCGS) PV:1.2s 16.3nm MPV=4.1
15.	eP	A 20 48 03.5	<u>Afghanistan</u> 34.61 N 70.90 E H = 20 39 45.8 h = 22 km MAG=5.6 D = 45.24 Az = 309.6 (USCGS) PV:2.0s 154.0nm MPV=5.6
	ei	A 48 16.5	
	e	A 48 32	
	e(PP)	A 49 43	
	e(PPP)	A 50 16	
15.	eP1	A 20 54 19	<u>Leeward Islands</u> 16.75 N 61.34 W H = 20 43 33.4 h = 50 km MAG=5.7 D = 66.44 Az = 41.6 (USCGS) P3V:1.9s 235.0nm MPV=6.1 SH:11s 1.2/um MSH=5.9 LmH:22s 3.2/um MLH=5.5 LmV:21s 3.2/um MLV=5.6
	eP2	A 54 24	
	+iP3	A 54 29	
	+eS	E 21 03 04	
	LmH	B 17.5	
	LmV	B 17.9	
15.	e	A 22 56 05.5	<u>Flores Sea</u> 7.25 S 120.28 E H = 22 38 23.2 h = 463 km MAG=5.3 D = 107.39 Az = 320.8 (USCGS) PV:1.7s 18.2nm
	e	A 56 22	
16.	+iP	A 04 10 46	<u>Eastern Kazakh SSR</u> 49.77 N 78.15 E H = 04 02 57.1 h = 0 km MAG=5.3 D = 41.28 Az = 297.7 (USCGS) PV:0.8s 52.0nm MPV=5.3 Probably underground explosion
	ePn	A 12 18.5	
16.	eP	A 05 13 45.5	<u>Crete</u> 34.89 N 24.36 E H = 05 09 32.7 h = 33 km MAG=4.6 D = 18.27 Az = 333.4 (USCGS)
16.	-iP	A 07 08 24.5	<u>South of Shikoku, Japan</u> 32.95 N 136.67 E H = 06 56 38.9 h = 405 km MAG=4.6 D = 83.69 Az = 328.4 (USCGS) PV:1.4s 37.2nm MPV=5.0

102

May 1969

Moxa

Day	Phase	h m s	Remarks
16.	ePKIKP	A 07 23 11.5	<u>Kermadec Islands</u> 27.52 S 176.58 W H = 07 03 22.2 h = 50 km MAG=5.4 D = 156.08 Az = 347.1 (USCGS)
	ePKP2	A 23 38	
	e	A 23 51	
	ePP	A 27 14	
16.	eP	A 07 30 12	<u>Greece</u> 39.16 N 21.77 E H = 07 26 58.7 h = 20 km MAG=5.2 D = 13.54 Az = 331.3 (USCGS) PV:1.0s 25.6nm LmH:12.5s 5.4/um MLH=5.2 LmV:13s 5.9/um MLV=5.3
	i	A 30 21	
	i	A 30 24	
	LmH	B 36.1	
	LmV	B 36.1	
16.	eP	A 16 31 38	<u>Southern Sumatra</u> 0.53 S 99.42 E H = 16 18 46.8 h = 50 km MAG=5.1 D = 89.00 Az = 320.5 (USCGS) PV:1.8s 33.8nm MPV=5.3
	epP	A 31 53.5	
	e	A 31 59	
17.	e	A 06 03 51	<u>South Atlantic Ridge</u> 28.33 S 12.87 W H = 05 51 30.3 h = normal MAG=4.9 D = 81.56 Az = 15.5 (USCGS)
18.	e(P)	A 00 34 50	<u>Solomon Islands</u> 9.00 S 158.45 E H = 00 15 31.5 h = 16 km MAG=5.6 D = 130.27 Az = 332.8 (USCGS) PV:1.6s 16.5nm
	ePP	B 37 05	
18.	eiP1	A 08 55 04	<u>Southern Alaska</u> 60.28 N 146.00 W H = 08 44 03.6 h = 6 km MAG=5.4 D = 67.96 Az = 15.2 (USCGS) P1V:1.0s 67.0nm MP1V=5.8 P2V:1.3s 101.0nm MP2V=5.9 LmV:19s 0.7/um MLV=5.0 LmH:14s 0.6/um MLH=4.9
	eP2	A 55 09	
	eS	B 09 04 05	
	LmV	B 27.8	
	LmH	B 30.8	
18.	eP	A 13 42 27	<u>Mascarene Islands</u> 19.53 S 66.01 E H = 13 29 55.4 h = normal MAG=5.1 D = 84.64 Az = 328.7 (USCGS) PV:1.4s 18.6nm MPV=5.1

103

May 1969

Moxa

Day	Phase	h m s	Remarks
18.	eP	A 21 08 22	<u>Hokkaido, Japan</u> 41.38 N 142.39 E H = 20 56 22.4 h = 52 km MAG=4.8 D = 78.76 Az = 330.6 (USCGS)
	LmH	C 45.9	
	LmV	C 45.9	
19.	ePKHKP	A 05 57 11	<u>Tonga Islands</u> 21.09 S 174.65 W H = 05 37 21.9 h = normal MAG=4.8 D = 150.10 Az = 352.0 (USCGS)
	ePKP2	A 57 17	
19.	eP	A 18 19 08.5	<u>Turkey</u> 37.79 N 35.10 E H = 18 14 24.0 h = 34 km MAG=4.6 D = 21.07 Az = 315.1 (USCGS) PV:1.6s 22.0nm MPV=4.2 LmH(C):13s 0.2/um MLH=3.8
	eS	C 23 10	
	LmH	C 28.6	
20.	e	A 01 21 49	<u>Kermadec Islands Region</u> 30.8 S 177.8 W H = 01 01 15.9 h = 9 km MAG=4.9 (USCGS) D = 159.0
20.	ePKIKP	A 03 28 14	<u>South Pazific Cordillera</u> 54.60 S 130.92 W H = 03 08 21.2 h = normal MAG=5.2 D = 157.10 Az = 84.4 (USCGS) PKIKPV:1.4s 16.3nm
	e	A 28 22.5	
20.	e(Sg)	A 11 20 33	<u>Germany</u> 49.1 N 6.8 E H = 11 18 37 (BCIS) D = 3.5
20.	eP	A 15 11 41	<u>Kurile Islands</u> 43.41 N 147.49 E H = 14 59 38.9 h = 25 km MAG=4.9 D = 78.75 Az = 333.1 (USCGS) PV:1.5s 22.6nm MPV=5.1 LmH:13.5s 0.4/um MLH=4.9
	LmH	B 51.3	
21.	eP	A 03 10 13	<u>Samar, Philippine Islands</u> 11.75 N 125.76 E H = 02 56 49.2 h = 26 km MAG=5.2 D = 95.68 Az = 324.3 (USCGS) PV:2.3s 61.0nm MPV=5.7
	e	A 10 23	
	e	A 10 33	
	ePP	C 14 05	
	e	A 14 15	

May 1969

Moxa

Day	Phase	h m s	Remarks
cont.	eSKS	C 03 20 48	LmH:15s 2.2/um MLH=5.8
21.	eS	C 21 32	LmV:15s 2.5/um MLV=5.8
	eSP	C 22 42	
	LmH	E 57.3	
	LmV	E 57.4	
21.	ePKP	A 10 13 55	<u>New Hebrides Islands</u> 18.91 S 168.99 E H = 09 54 48.4 h = 203 km MAG=3.5 D = 143.59 Az = 335.6 (USCGS)
21.	ePKP	A 15 22 09	<u>Tonga Islands</u> 16.53 S 173.18 W H = 15 02 29.6 h = 25 km MAG=4.5 D = 145.75 Az = 354.6 (USCGS) PKPV:1.0s 11.8nm
21.	eP	A 15 39 43.5	<u>Hindu Kush</u> 36.42 N 70.17 E H = 15 32 00.0 h = 229 km MAG=5.0 D = 43.64 Az = 308.1 (USCGS) PV:1.5s 15.1nm MPV=4.2
21.	ePKIKP	A 17 23 56	<u>New Ireland</u> 4.59 S 153.16 E H = 17 05 03.4 h = 65 km MAG=5.1 D = 123.93 Az = 331.5 (USCGS)
21.	eP	A 21 57 20.5	<u>Kurile Islands</u> 43.98 N 149.59 E H = 21 45 19.2 h = 40 km MAG=4.7 D = 78.92 Az = 334.3 (USCGS) PV:1.2s 18.3nm MPV=5.0
	epP	A 57 33	
22.	eP	A 09 49 00	<u>Off East Coast of Honshu, Japan</u> 38.34 N 142.99 E H = 09 36 42.8 h = normal MAG=4.5 D = 81.64 Az = 331.1 (USCGS)
	e	A 49 07.5	
22.	ePKHKP	A 12 40 12	<u>South of Fiji Islands</u> 23.45 S 179.89 W H = 12 21 24.1 h = 589 km MAG=4.3 D = 151.41 Az = 344.6 (USCGS)
	ePKP2	A 40 24	

May 1969

Moxa

Day	Phase	h m s	Remarks
23.	eP e	A A 00 15 34 15 40	<u>North Atlantic Ridge</u> 26.59 N 44.63 W H = 00 06 51.3 h = normal MAG=4.8 D = 48.70 Az = 44.8 (USCGS)
23.	-iP i e ipP esP eS LmV LmH	A E A A A B B E 13 16 23.2 16 24 16 27 16 33 16 37.5 26 08 56.3 14 01.4	<u>South of Alaska</u> 53.37 N 160.16 W H = 13 04 36.7 h = 32 km MAG=5.6 D = 76.13 Az = 5.4 (USCGS) PV:2.0s 205.0nm MPV=5.9 LmV:16s 0.5/um MLV=4.9 LmH:16s 0.5/um MLH=4.9
23.	eP	A 17 20 07	<u>Off W. Coast of Northern Sumatra</u> 3.68 N 95.68 E H = 17 07 42.2 h = 47 km MAG=5.2 D = 83.40 Az = 320.4 (USCGS) PV:1.4s 14.0nm MPV=5.0
24.	eP	A 06 05 07	<u>Egypt</u> 27.4 N 33.9 E H = 05 59 11 (An USSR) D = 28.8 PV:2.0s 34.2nm MPV=4.8
24.	ePKP2	A 10 45 34	<u>Kermadec Islands Region</u> 29.62 S 178.90 W H = 10 25 40.7 h = 294 km MAG=3.9 (USCGS) D = 157.4
24.	eP e e LmH LmV	A A A C C 11 54 18 54 32.5 54 40 12 01.5 03.5	<u>Turkey</u> 36.94 N 35.42 E H = 11 49 27.0 h = 43 km MAG=4.3 D = 21.85 Az = 316.3 (USCGS) LmH:24s 0.3/um MLH=3.6
25.	eP e e	A A A 11 38 34 38 39 38 48	<u>Red Sea</u> 27.62N 33.98 E H = 11 32 38.6 h = normal MAG=4.8 D = 28.59 Az = 329.6 (USCGS) PV:1.5s 25.1nm MPV=4.8

106

May 1969

Moxa

Day	Phase	h m s	Remarks
25.	+eP	A 15 11 11	<u>Fox Islands, Aleutian Is.</u> 52.13 N 169.91 W H = 14 59 16.7 h = normal MAG=4.7 D = 77.60 Az = 359.0 (USCGS) PV:1.6s 27.5nm MPV=5.1
25.	ePKIKP ePKP2 epPKP2	A A A 20 38 21 39 00 39 19	<u>South of Kermadec Islands</u> 32.04 S 178.85 W H = 20 18 30.0 h = 70 km MAG=5.4 D = 159.85 Az = 340.4 (USCGS)
25.	LmH LmV	C C 23 30.0 30.0	Probably <u>South Sandwich</u> Islands Region (USCGS)
26.	eP epP e LmH LmV	A A A B B 06 07 07.5 07 15 07 20 47.0 51.5	<u>Near Coast of Oaxaca, Mexico</u> 15.84 N 94.41 W H = 05 54 18.4 h = 34 km MAG=5.1 D = 87.71 Az = 37.8 (USCGS) PV:1.3s 17.5nm MPV=5.2 LmH:18s 0.5/um MLH=5.0 LmV:18s 0.5/um MLV=5.0
26.	eP e eSKS eS ePPS eSS LmH LmV	A A C C C C B B 15 50 44 50 54 16 01 16 02 00 03 23 08 40 37.9 38.0	<u>Samar, Philippine Islands</u> 11.79 N 125.83 E H = 15 37 16.8 h = 14 km MAG=5.2 D = 95.69 Az = 324.3 (USCGS) PV:1.3s 17.5nm MPV=5.4 LmH:17s 3.1/um MLH=4.8 LmV:16s 2.5/um MLV=4.8
27.	iSg	A 01 42 13.5	<u>Austria</u> 47.9 N 14.3 E H = 01 40 29 (BCIS) D = 3.2
27.	eP	A 09 41 09	<u>Molucca Sea</u> 0.17 S 124.98 E H = 09 27 03.8 h = normal MAG=5.3 D = 104.76 Az = 322.8 (USCGS) PV:1.2s 16.3nm MPV=5.4

107

May 1969

Moxa

Day	Phase	h m s	Remarks
27.	LmV	B 13 22.4	Probably <u>South Sandwich Islands</u> (USCGS) LmV:18s 0.8/um LmH:18s 0.6/um
	LmH	B 24.0	
27.	eP	A 14 27 19	<u>Southern Nevada</u> 37.08 N 116.00 W H = 14 15 00.0 h = 0 km MAG=5.0 D = 81.25 Az = 30.7 (USCGS) 37°04'30.4"N 115°59'43.1"W Nevada test site "Torrido" (USAEC)
27.	eP	A 16 39 22	<u>Southeastern Alaska</u> 60.40 N 140.72 W H = 16 28 25.7 h = 2 km MAG=4.3 D = 67.08 Az = 18.7 (USCGS) PV:1.2s 12.2nm MPV=5.0
27.	ePP	A 16 48 42	<u>Timor</u> 8.8 S 124.1 E H = 16 29 30.5 h = 30 km MAG=5.3 (USCGS) D = 110.9
27.	eP	A 21 04 33.5	<u>Kurile Islands</u> 44.50 N 148.56 E H = 20 52 34.1 h = 18 km MAG=4.6 D = 78.13 Az = 333.6 (USCGS)
28.	eP	A 03 40 40	<u>Norwegian Sea</u> 73.8 N 10.1 E H = 03 35 34.7 h = normal MAG=4.5 (USCGS) D = 23.3
	e	A 40 45	
28.	eP	A 03 54 30	<u>Samar, Philippine Islands</u> 11.8 N 125.8 E H = 03 41 01.8 h = 6 km MAG=5.3 (USCGS) D = 95.7 PPV:1.5s 15.1nm MPPV=5.2
	e	A 54 38	
	ePP	A 58 20	
	e	A 58 30.5	
28.	+eP	A 04 02 21	<u>Greenland Sea</u> 73.47 N 8.19 E H = 03 57 19.4 h = normal MAG=4.9 D = 22.96 Az = 174.4 (USCGS) PV:1.3s 48.0nm MPV=4.9 LmH:16s 0.5/um MLH=4.0 LmV:16s 0.5/um MLV=4.2
	e	A 02 28	
	LmH	B 11.9	
	LmV	E 11.9	

108

May 1969

Moxa

Day	Phase	h m s	Remarks
28.	+eiP	A 13 42 52.5	<u>Peru-Ecuador Border Region</u> 2.09 S 76.93 W H = 13 30 08.9 h = 177 km MAG=5.5 D = 90.67 Az = 39.5 (USCGS) PV:2.2s 153.0nm MPV=5.6 SH:10s 2.8/um MSH=6.3 LmH:21s 1.2/um LmV:20s 0.6/um
	ei	A 42 55	
	ei	A 42 58.5	
	epP	B 43 25	
	ePP	B 46 26	
	+iSKS	C 53 12	
	eiS	B 53 32	
	e	B 54 36	
	eSS	C 59 45	
	LmH	B 14 10.6	
	LmV	B 14.7	
29.	ePKP	A 07 37 05	<u>Tonga Islands</u> 14.99 S 173.35 W H = 07 17 26.8 h = 33 km MAG=4.9 (USCGS) D = 144.2
29.	ePKIKP	A 10 41 24	<u>Fiji Islands</u> 20.34 S 177.71 W H = 10 22 38.0 h = 510 km MAG=4.6 D = 148.87 Az = 348.5 (USCGS) PKHKPV:1.6s 44.0nm
	iPKHKP	A 41 28.5	
	ePKP2	A 41 34	
29.	ePKIKP	A 11 41 20.5	<u>Fiji Islands</u> 20.22 S 177.75 W H = 11 22 35.0 h = 510 km MAG=4.5 D = 148.75 Az = 348.5 (USCGS)
	eiPKHKP	A 41 25	
	ePKP2	A 41 31	
29.	ePKP2	A 16 37 28	<u>Kermadec Islands Region</u> 29.38 S 178.85 W H = 16 17 35.1 h = 306 km MAG=4.4 (USCGS) D = 157.3
29.	ePKP	A 17 12 20	<u>Tonga Islands</u> 19.89 S 174.69 W H = 16 52 32.1 h = normal MAG=4.9 D = 148.91 Az = 352.2 (USCGS)
	e	A 12 37	
29.	eP	A 20 38 15	<u>Guatemala</u> 14.72 N 90.60 W H = 20 25 56.2 h = 218 km MAG=4.8 (USCGS) D = 86.3 pPV:1.5s 10.1nm
	epP	A 39 06.5	

109

May 1969

Moxa

Day	Phase	h m s	Remarks
30.	ePKIKP	A 15 34(52)	<u>Fiji Islands</u> 21.09 S 178.84 W
	eX	A 34 55	H = 15 16 10.7 h = 583 km MAG=4.8
	iPKHKP	A 34 57	D = 149.38 Az = 346.9 (USCGS)
	ePKP2	A 35(04)	XV:0.6s 7.7nm
	e	A 35 07	PKHKPV:1.2s 28.5nm
30.	ePKIKP	B 16 15 32	<u>South of Kermadec Islands</u>
	ePKHKP	A 15 46	32.22 S 178.11 W
	epPKHKP	A 15 54	H = 15 55 37.1 h = 34 km MAG=5.2
	eiPKP2	A 16 13	D = 160.23 Az = 341.5 (USCGS)
	epPKP2	A 16 24	
30.	ePKIKP	A 16 42 44	<u>South of Kermadec Islands</u>
	ePKP2	B 43 20	32.33 S 178.09 W
	e	A 43 24	H = 16 22 47.8 h = normal MAG=5.5
	eiPP	A 47 05	D = 160.34 Az = 341.4 (USCGS)
	eSKKS	C 53 55	LmH:18s 3.3 $\mu$ m MLH=6.1
	ePPS	C 17 00 30	LmV:19s 5.2 $\mu$ m
	e	B 02 24	
	LmH	B 18 04.0	
	LmV	B 07.3	
31.	eP	A 11 20 03	<u>Ecuador</u> 1.75 S 77.74 W
	eSKS	C 30 23	H = 11 07 17.1 h = 172 km MAG=5.1 (USCGS)
	eS	C 30 44	D = 91.0 PV:1.6s 33.0nm MPV=5.1
31.	ePKP	A 22 28 56	<u>Tonga Islands</u> 16.03 S 172.98 W H = 22 09 19.5 h = normal MAG=4.5 D = 145.27 Az = 354.9 (USCGS) PKPV:1.6s 24.7nm
31.	ePKP	A 22 38 07.5	<u>New Hebrides Islands</u> 19.27 S 169.13 E H = 22 18 52.4 h = 161 km MAG=4.6 D = 143.96 Az = 335.6 (USCGS)

110

May 1969

Moxa

Day	Phase	h m s	Remarks
31.	eiPKP	A 22 44 10.5	<u>Samoa Islands</u> 15.96 S 172.88 W
	ipPKP	A 44 15	H = 22 24 32.0 h = 15 km MAG=5.2
	e	A 44 20	D = 145.21 Az = 355.0 (USCGS)
	LmV	E 23 50.0	PKPV:1.7s 60.6nm
	LmH	B 50.5	LmV:20s 0.6 $\mu$ m LmH:20s 0.6 $\mu$ m MLH=5.3

111



June 1969

Moxa

Day	Phase	h m s	Remarks
1.	ePKIKP epPKIKP	A 00 14 35 A 16 29	<u>Salomon Islands</u> 4.88 S 154.22 E H = 23 56 21.6 h = 403 km MAG=5.5 (USCGS) D = 124.6 PKIKPV:1.4s 25.6nm
1.	eP	A 08 45 59	<u>India-East Pakistan Border Region</u> 25.76 N 91.76 E H = 08 35 22.1 h = 20 km MAG=5.0 (USCGS) D = 64.5 PV:1.2s 16.3nm MPV=5.1
1.	LmH LmV	C 14 48.8 C 50.0	Probably <u>Talau Islands</u> (USCGS) LmH(C):29s 0.4 $\mu$ m LmV(C):29s 0.3 $\mu$ m
1.	LmH LmV	B 19 56.0 E 56.0	Probably <u>Off Coast of Mexico</u> (USCGS) LmH:15s 0.4 $\mu$ m LmV:15s 0.5 $\mu$ m
1.	ePKHKP e ePKP2	A 20 13 24.5 A 13 39 A 13 49	<u>Kermadec Islands</u> 31.73 S 178.17 W H = 19 53 12.4 h = 17 km MAG=5.0 D = 159.76 Az = 341.8 (USCGS)
1.	e	A 21 45 43	<u>Tonga Islands</u> 15.86 S 173.35 W H = 21 26 24.5 h = 253 km MAG=4.1 D = 145.07 Az = 354.5 (USCGS)
1.	-iPn iSn eiSg	A 23 21 30 A 22 17 A 22 30	<u>Austria</u> 47.0 N 14.2 E H = 23 20 29 (BCIS) D = 4.0
2.	-iPn i i eSn eiSg	A 03 58 30 A 58 33.5 A 58 43 A 59 13 A 59 31	<u>Austria</u> 47.03 N 14.25 E H = 03 57 30.1 h = 29 km MAG=4.1 D = 4.02 Az = 335.3 (USCGS)

112

June 1969

Moxa

Day	Phase	h m s	Remarks
2.	eP1 eiP2 eSKS LmH LmV	A 09 59 02 A 59 04 E 10 08 07 B 34.5 E 35.8	<u>Gulf of Alaska</u> 59.45 N 144.67 W H = 09 47 59.4 h = normal MAG=4.7 D = 68.58 Az = 16.0 (USCGS) P2V:1.3s 26.2nm MPV=5.3 LmH:15s 1.0 $\mu$ m MLH=5.2 LmV:14s 1.2 $\mu$ m MLV=5.3
3.	eP	A 00 37 47	<u>Hokkaido, Japan</u> 42.83 N 145.48 E H = 00 25 52.2 h = 73 km MAG=4.3 D = 78.60 Az = 332.1 (USCGS)
3.	eP	A 19 06 27	<u>Kurile Islands</u> 49.10 N 156.21 E H = 18 54 41.7 h = 41 km MAG=4.9 D = 76.11 Az = 337.7 (USCGS)
3.	eP e LmH LmV	A 22 05 16 A 08 20 B 46.0 B 48.4	<u>Off East Coast of Honshu, Japan</u> 40.16 N 143.66 E H = 21 53 06.5 h = normal MAG=4.8 D = 80.29 Az = 331.3 (USCGS) LmH:15s 0.5 $\mu$ m MLH=5.0 LmV:13s 0.4 $\mu$ m MLV=5.0
4.	eP e	A 00 48 23 A 48 29	<u>Kirgiz-Sinkiang Border Region</u> 41.37 N 79.46 E H = 00 39 57.5 h = normal MAG=4.9 D = 46.49 Az = 305.6 (USCGS) PV:1.3s 17.5nm MPV=5.0
4.	eiPKP e	A 14 36 00 A 36 11.5	<u>Samoa Islands Region</u> 16.27 S 172.71 W H = 14 16 26.0 h = 43 km MAG=4.9 D = 145.54 Az = 355.1 (USCGS) PKPV:1.4s 34.8nm
4.	eiPKP e e e	A 16 41 06 A 41 12 A 41 18 A 41 45	<u>Tonga Islands</u> 16.16 S 173.02 W H = 16 21 31.4 h = 42 km MAG=4.9 D = 145.40 Az = 354.8 (USCGS) PKPV:1.8s 54.0nm

113

June 1969

Moxa

Day	Phase	h m s	Remarks
4.	ePKIKP A	16 59 45.5	<u>Banda Sea</u> 6.97 S 129.91 E H = 16 41 16.8 h = 93 km MAG=5.1 D = 113.11 Az = 322.4 (USCGS)
4.	eiP A	20 45 10.5	<u>North Atlantic Ridge</u> 11.90 N 43.80 W H = 20 35 10.1 h = normal MAG=4.9 D = 59.23 Az = 37.6 (USCGS) PV:1.4s 27.9nm MPV=5.1
5.	ePKP A	00 42 22.5	<u>Samoa Islands</u> 16.21 S 172.89 W H = 00 22 45.9 h = normal MAG=4.8 D = 145.46 Az = 354.9 (USCGS) PKPV:1.3s 30.6nm
5.	eP A	10 58 06	<u>Northern Sumatra</u> 4.90 N 96.31 E H = 10 45 43.6 h = normal MAG=5.3 D = 82.87 Az = 320.3 (USCGS) LmH:18s 0.3 $\mu$ m MLH=4.8 LmV:18s 0.3 $\mu$ m MLV=4.8
	e A	58 11	
	e A	58 36	
	e B	11 34 15	
	LmH B	41.0	
	LmV B	41.0	
5.	e A	13 38 30	<u>Denmark, near Århus</u> 56.2 N 10.3 E H = 13 34 36 (UPP) D = 5.6
5.	ePP A	17 38 35	<u>Halmahera</u> 1.89 N 127.42 E H = 17 20 16.4 h = 97 km MAG=5.2 (USCGS) D = 104.7 PPV:1.7s 24.3nm
5.	eP A	20 49 53.5	<u>North Atlantic Ridge</u> 10.72 N 41.02 W H = 20 39 58.9 h = normal MAG=5.2 D = 58.52 Az = 36.4 (USCGS) PV:1.8s 47.3nm MPV=5.2 LmH:16s 1.1 $\mu$ m MLH=5.1 LmV:16s 1.3 $\mu$ m MLV=5.2
	eS B	58 00	
	LmH B	21 15.0	
	LmV B	15.0	

June 1969

Moxa

Day	Phase	h m s	Remarks
6.	eP A	04 30 41	<u>Kodiak Island</u> 56.64 N 152.45 W H = 04 19 15.2 h = 16 km MAG=4.8 D = 72.27 Az = 10.6 (USCGS) PV:1.3s 35.0nm MPV=5.3
	e A	30 47	
	e A	30 51	
6.	ePg A	05 28 23	<u>Germany</u> 48°17'N 9°05'E H = 05 27 23 (BCIS) D = 2.9
	e A	28 54	
	eiSg A	28 55	
6.	eP A	07 11 16	<u>Sakhalin Island</u> 46.11 N 143.06 E H = 07 00 08.6 h = 326 km MAG=4.6 D = 74.89 Az = 330.4 (USCGS) PV:1.4s 14.0nm MPV=4.6
6.	LmV B	17 10.3	Probably <u>Off Coast of Central America</u> (USCGS) LmV:18s 0.3 $\mu$ m LmH:18s 0.2 $\mu$ m
	LmH B	10.5	
6.	ePP A	22 43 19	<u>Northern Chile</u> 22.55 S 68.42 W H = 22 25 37.3 h = 125 km MAG=5.0 (USCGS) D = 101.1
7.	ePKP2 A	05 44 55	<u>East of North Island, N.Z.</u> 35.43 S 179.86 W H = 05 24 11.0 h = 46 km MAG=4.7 (USCGS) D = 162.7
7.	eP A	15 34 30	<u>Greece</u> 38.04 N 20.13 E H = 15 31 12.5 h = 39 km MAG=4.6 D = 13.98 Az = 337.0 (USCGS) PV:1.0s 21.7nm LmH(C):13s 3.3 $\mu$ m MLH=4.6 LmV(C):13s 2.5 $\mu$ m
	e A	34 41	
	eS A	36 58	
	LmH C	40.2	
	LmV C	41.3	
7.	+iP A	22 59 06.8	<u>Fox Islands, Aleutian Islands</u> 52.49 N 169.06 W H = 22 47 15.4 h = 42 km MAG=5.2
	e A	59 24.5	
	e A	23 01 23	

June 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
7.	LmH C LmV C	23 34.0 40.5	D = 77.24 Az = 359.6 (USCGS) PV:1.2s 69.0nm MPV=5.7 LmH(C):19s 0.2/um MLH=5.6 LmV(C):20s 0.23/um MLV=5.5
8.	+iP1 A iP2 A e A	15 00 56.5 00 57 01 14	<u>Near East Coast of Kamchatka</u> 53.30 N 159.72 E H = 14 49 31.6 h = 60 km MAG=5.4 D = 73.00 Az = 339.4 (USCGS) P1V:1.0s 35.4nm MP1V=5.5 P2V:1.2s 77.1nm MP2V=5.7 LmH(C):26s 0.5/um LmV(C):24s 0.4/um
8.	eP A	17 02 39	<u>Lake Tanganyika Region</u> 6.11 S 30.80 E H = 16 52 39.8 h = normal MAG=4.7 D = 58.91 Az = 345.9 (USCGS) PV:1.3s 13.1nm MPV=4.8
8.	ePKIKP A ePKHKP A ePKP2 A epPKP A	21 59 15 59 24 59 38 22 01 10	<u>South of Fiji Islands</u> 25.30 S 179.57 W H = 21 40 13.4 h = 412 km MAG=5.0 D = 153.26 Az = 344.1 (USCGS)
9.	eP A e A LmH C LmV C	02 07 25 07 31 44.9 50.0	<u>Taiwan</u> 23.74 N 120.89 E H = 01 55 00.4 h = 46 km MAG=5.0 D = 83.33 Az = 322.8 (USCGS) PV:1.3s 10.9nm MPV=4.9 LmH(C):15s 0.3/um MLH=4.8 LmV(C):15s 0.2/um MLV=4.6
9.	ePKP A ePP A	07 10 03 11 14	<u>Near North Coast of New Guinea</u> 3.24 S 142.89 E H = 06 51 16.1 h = 17 km MAG=5.2 D = 117.56 Az = 327.3 (USCGS)
9.	LmH B LmV B	08 04.5 05.0	Probably <u>Near North Coast of New Guinea</u> LmH:20s 0.7/um LmV:18s 0.8/um

116

June 1969

Moxa

Day	Phase	h m s	Remarks
9.	eP A ei A e A	09 45 52 45 58 48 12	<u>Ascension Island</u> 7.03 S 12.69 W H = 09 35 38.2 h = normal MAG=4.9 D = 61.18 Az = 17.4 (USCGS) PV:1.8s 30.4nm MPV=5.2
9.	e A	19 01 18	<u>Northern Sinkiang Prov. China</u> 41.98 N 84.63 E H = 18 52 26.3 h = 36 km MAG=4.7 D = 49.27 Az = 306.5 (USCGS)
9.	ePKIKP A eX A iPKHKP A e A ePP C eSKSP C LmH B LmV B	22 12 49 12 50.5 12 55.5 13 13 16 33 26 55 23 24.4 24.6	<u>Tonga Islands</u> 23.48 S 174.98 W H = 21 53 01.8 h = normal MAG=5.5 D = 152.40 Az = 350.9 (USCGS) XV:3.0s 145.0nm LmH:20s 1.0/um MLH=5.1 LmV:20s 1.1/um
9.	eiP A e A e A	23 21 41.5 21 57 22 06.5	<u>Kurile Islands</u> 44.03 N 148.87 E H = 23 09 43.6 h = 50 km MAG=5.1 D = 78.65 Az = 333.8 (USCGS) PV:1.1s 28.2nm MPV=5.3
10.	LmH B LmV B	18 12.8 12.8	Probably <u>Mindoro, Philippine Islands</u> (USCGS) LmH:17s 0.7/um LmV:17s 0.9/um
10.	+eP A e A eipP A esP A e A e A eS C esS C eSS C e C	23 00 00.5 00 43 00 46 01 09 03 05 05 15 06 20 07 32 09.5 09 50	<u>Hindu Kush Region</u> 36.41 N 70.74 E H = 22 52 12.1 h = 203 km MAG=5.4 D = 44.00 Az = 308.1 (USCGS) PV:1.6s 60.5nm MPV=4.8 LmH:14s 0.7/um LmV:12s 0.5/um

117

June 1969			Moxa
Day	Phase	h m s	Remarks
cont.			
10.	LmH	E 23 44.4	
	LmV	E 48.3	
10.	eiP	A 23 38 40.6	<u>Hindu Kush</u> 36.33 N 70.45 E
	e	A 39 07	H = 23 30 53.7 h = 213 km MAG=5.2
	e	A 39 21	D = 43.87 Az = 308.2 (USCGS)
	esP	B 39 48	PV:1.4s 69.7nm MPV=4.9
	e	B 42 32	
11.	-iP	A 01 09 15	<u>Gulf of Alaska</u> 59.60 N 144.76 W
	ePP	B 11 48	H = 00 58 10.1 h = 5 km MAG=5.3
	eS	B 18 18	D = 68.46 Az = 15.9 (USCGS)
	eSKS	E 19 18	PV:1.0s 55.0nm MPV=5.7
	LmH	E 44.5	LmH:15s 0.8/um MLH=5.1
	LmV	B 46.0	LmV:16s 1.1/um MLH=5.2
11.	+eP	A 01 16 04.5	<u>Gulf of Alaska</u> 59.59 N 144.76 W
	e	A 16 09	H = 01 05 01.3 h = 12 km MAG=4.9
	e	A 16 11	D = 68.46 Az = 15.9 (USCGS)
	e	A 16 13	
11.	eP	A 05 01 03.5	<u>Northern Sumatra</u> 1.11 N 98.83 E
			H = 04 48 20.4 h = 53 km MAG=5.3
			D = 87.38 Az = 320.5 (USCGS)
			PV:1.3s 17.5nm MPV=5.2
11.	eP	A 07 00 52.5	<u>North of Ascension Island</u>
			2.46 S 12.24 W
			H = 06 51 10.9 h = normal MAG=5.0
			D = 56.71 Az = 17.9 (USCGS)
			PV:2.0s 29.9nm MPV=5.0
11.	+eP	A 15 23 23	<u>Bonin Islands</u> 27.38 N 139.91 E
	ePP	A 27 03	H = 15 11 17.4 h = 500 km MAG=4.8
	e	A 27 06	D = 89.89 Az = 330.0 (USCGS)
			PV:1.2s 32.6nm MPV=5.1

June 1969			Moxa
Day	Phase	h m s	Remarks
11.	ePKP	A 23 31 50	<u>Fiji Islands</u> 17.79 S 179.92 W
			H = 23 13 17.7 h = 609 km MAG=4.5
			D = 145.95 Az = 346.9 (USCGS)
			PKPV:1.5s 15.1nm
11.	ePKHKP	A 24 04 43	<u>Tonga Islands</u> 20.48 S 174.71 W
	eiPKP2	A 04 50.9	H = 23 44 57.9 h = normal MAG=4.6
	e	A 05 01.5	D = 149.48 Az = 352.1 (USCGS)
12.	+eP	A 07 53 33	<u>Off East Coast of Honshu, Japan</u>
	ei	A 53 42.5	40.26 N 143.68 E
	i	A 53 49.5	H = 07 41 25.1 h = normal MAG=5.1
	e	A 53 54	D = 80.21 Az = 331.3 (USCGS)
	ePP	A 56 25	PV:1.8s 67.5nm MPV=5.3
	e	A 56 41	LmH:14s 3.4/um MLH=5.8
	eS	B 08 03 35	LmV:13s 3.5/um MLV=5.9
	LmH	B 32.7	
	LmV	B 36.5	
12.	e	A 09 58 05	<u>Ionian Islands</u> (UPP)
12.	+iP	AB 15 17 51.5	<u>Crete</u> 34.41 N 25.06 E
	iS	B 21 24	H = 15 13 31.1 h = 25 km MAG=5.8
	i	B 21 35	D = 18.97 Az = 332.9 (USCGS)
	LmH	B 26.5	PV(A):1.2s 712.0nm MPV=5.8
	LmV	B 26.6	PV(B):10s 10.7/um MPV=6.0
			LmH:13s 59.3/um MLH=6.1
			LmV:14s 75.1/um MLV=6.3
12.	eP	A 18 04 50	<u>Crete</u> 34.21 N 25.23 E
			H = 18 00 29.6 h = 56 km MAG=4.5
			D = 19.20 Az = 332.9 (USCGS)
2.	eP	A 19 11 36.5	<u>Taiwan</u> 24.01 N 122.39 E
	LmV	B 53.3	H = 18 59 08.1 h = normal MAG=5.3

June 1969

Moxa

Day	Phase	h m s	Remarks
cont. 12.	LmH B	19 54.3	D = 83.94 Az = 323.2 (USCGS) LmV:15s 2.1/um MLV=5.7 LmH:18s 2.1/um MLH=5.6
13.	eP A LmH B LmV B	01 27 34.5 36.2 36.2	<u>Crete</u> 34.3 N 25.1 E H = 01 23 13.8 h = 38 km MAG=4.4 (USCGS) D = 19.1 LmH:14s 0.4/um MLH=3.9 LmV:12s 0.6/um MLV=4.2
13.	+iP AB eSS B LmH B LmV B	09 00 09 09 40 35.4 38.8	<u>Kurile Islands</u> 49.44 N 155.50 E H = 08 48 29.5 h = 64 km MAG=5.9 D = 75.61 Az = 337.2 (USCGS) PV(A):1.4s 232.0nm MPV=6.1 PV(B):8s 2.3/um MPV=6.3 LmH:23s 26.2/um MLH=6.5 LmV:23s 23.2/um MLV=6.5
13.	e(P <sub>S</sub> ) A e(S <sub>S</sub> ) A	14 45 34 45 50	<u>Adelebsen, explosion</u> 51°36.55'N 09°44.67'E H = 14 45 00.93 yield 6.1 to (Hannover) D = 1.5
13.	ePKHKP A ePKP2 A	18 53 13 53 19.5	<u>Fiji Islands</u> 20.67 S 278.57 W H = 18 34 31.2 h = 600 km MAG=4.3 D = 149.03 Az = 347.4 (USCGS)
14.	eP A epP A	00 35 06.5 35 20	<u>Andreanof Islands, Aleutian Is.</u> 51.33 N 179.72 W H = 00 23 11.4 h = 38 km MAG=4.9 D = 77.95 Az = 352.7 (USCGS)
14.	eP A	01 03 44	<u>Crete</u> 34.19 N 24.96 E H = 00 59 22.4 h = normal MAG=4.0 (USCGS) D = 19.5

120

June 1969

Moxa

Day	Phase	h m s	Remarks
14.	eP A e A e A	03 38 48 38 52 39 30	<u>Tibet</u> 31.70 N 94.65 E H = 03 28 29.6 h = normal MAG=5.3 D = 62.03 Az = 314.3 (USCGS)
14.	eiPKIKP A epPKIKP A e A ePP A LmH B LmV B	03 42 01.5 42 16 42 22 44 11 04 39.3 39.3	<u>Salomon Islands</u> 7.91 S 158.98 E H = 03 22 56.8 h = 62 km MAG=6.0 D = 129.54 Az = 333.6 (USCGS) LmH:22s 1.7/um LmV:22s 1.5/um
14.	+eP AB e A eS B e B e B e A e B eScP A LmH B LmV B	13 51 48 52 07 55 17 55 24 55 34 57 17 58 22 59 46 14 00.5 00.5	<u>Crete</u> 34.32 N 25.08 E H = 13 47 24.2 h = 9 km MAG=5.0 D = 19.04 Az = 333.0 (USCGS) PV(A):0.9s 109.0nm MPV=5.1 PV(B):6s 0.37/um MPV=4.8 LmH:14s 2.6/um MLH=4.7 LmV:15s 2.9/um MLV=4.9
14.	eP A e A	14 37 17 37 30	<u>Crete</u> 34.33 N 25.13 E H = 14 32 56.3 h = 36 km MAG=4.4 D = 19.06 Az = 332.9 (USCGS)
14.	eP A e A e A e A e C LmH C LmV C	17 50 13 50 30 50 40 50 54 54 36 18 00.0 01.2	<u>Turkey-USSR Border Region</u> 41.37 N 43.19 E H = 17 45 01.8 h = 26 km MAG=4.7 D = 23.65 Az = 303.8 (USCGS) LmH(C):18s 0.4/um MLH=3.9 LmV(C):16s 0.3/um MLV=4.0
15.	eP A LmV B	06 03 04 11.7	<u>Crete</u> 34.31 N 25.17 E H = 05 58 41.8 h = 24 km MAG=4.5 D = 19.09 Az = 332.9 (USCGS) PV:0.8s 19.2nm MPV=4.4

121

June 1969

Moxa

Day	Phase	h m s	Remarks
15.	eP	A 17 09 48	<u>Southern Sumatra</u> 4.67 S 102.20 E
	e	A 10 02	H = 16 56 32.0 h = 38 km MAG=5.3
	ePP	A 13 32	D = 93.95 Az = 320.3 (USCGS)
	LmV	C 58.8	LmV(C):21s 0.4/um MLV=4.8
15.	eP	A 22 06 41	<u>Gulf of Alaska</u> 59.45 N 145.21 W
	e	A 06 48	H = 21 55 39.2 h = 32 km MAG=4.0
	e	A 06 53	D = 68.65 Az = 15.6 (USCGS)
16.	e	A 15 18 50	<u>Greece</u> 38.0 N 20.3 E
			H = 15 15 26 h = normal (BCIS) D = 14.1
16.	-eP	A 16 09 40	<u>Greece</u> 38.24 N 20.15 E
	e	A 09 54	H = 16 06 25.5 h = 42 km MAG=4.5
	e	A 10 08	D = 13.81 Az = 336.7 (USCGS)
	e	A 13 18	PV:2.0s 34.1nm
	LmH	B 15.4	LmH:10.5s 3.1/um MLH=4.7
	LmV	B 16.3	LmV:11s 2.9/um
17.	eP	A 05 22 00	<u>Greece</u> 38.48 N 20.20 E
			H = 05 18 46.5 h = normal MAG=4.5 D = 13.61 Az = 336.2 (USCGS) PV:2.0s 25.6nm
17.	+eP	AB 19 39 49.5	<u>Mariana Islands</u> 18.98 N 145.49 E
	epP	A 40 40	H = 19 26 28.9 h = 206 km MAG=5.8
	ePP	A 43 56	D = 99.69 Az = 332.2 (USCGS)
	ipPP	B 44 39	PV(A):3s 198.0nm MPV=6.1
	e	A 44 41	PV(B):9s 0.6/um MPV=6.1
	eisP	B 44 52	PPV(A):2.0s 19.1nm
	ePPP	B 46 20	PPV(B):10s 1.1/um
	ei	B 50 04	PKKP(A):1.6s 38.4nm
	e	B 51 38	LmH:16s 10.4/um
	eSP	C 52 26	LmV:16s 6.3/um
	e	A 52 28	
	ei(PPS)	C 53 40	
	ePKKP	A 56 10.5	
LmH	B 20 23.9		
LmV	B 30.8		

June 1969

Moxa

Day	Phase	h m s	Remarks
17.	eP	A 23 29 59	<u>Eastern Caucasus</u> 43.19 N 45.28 E
	eS	B 34 20	H = 23 24 41.7 h = 6 km MAG=5.1
	LmH	B 40.1	D = 24.01 Az = 299.9 (USCGS)
	LmV	B 41.8	PV:1.9s 90.9nm MPV=5.0 LmH:16s 4.4/um MLH=5.0 LmV:14s 3.5/um MLV=5.1
17.	ePKIKP	A 24 18 07	<u>Maguarie Islands</u> 52.57 S 159.72 E
	ePKP2	B 19 41	H = 23 58 10.1 h = normal MAG=6.1
	i	E 20 00	D = 160.18 Az = 277.2 (USCGS)
	ePP	B 22 32	PKIKPV:2.5s 92.3nm
	e(SKSP)	B 33 00	LmH:21s 10.8/um MLH=6.6
	ePPS	B 35 55	LmV:21s 17.2/um
	eSS	B 42 40	
	eSSS	E 48 36	
	eSSSS	B 53 15	
	LmH	B 25 40.4	
LmV	B 40.4		
18.	iP1	A 01 49 47.5	<u>Gulf of Alaska</u> 59.54 N 145.02 W
	iP2	A 49 50	H = 01 38 46.4 h = normal MAG=5.2 D = 68.54 Az = 15.7 (USCGS) P2V:1.4s 88.2nm MPV=5.8
18.	eP	A 17 22 43.5	<u>Carlsberg Ridge</u> 1.63 N 66.72 E
			H = 17 11 48.0 h = 23 km MAG=5.0 D = 67.30 Az = 325.5 (USCGS)
18.	ePP	A 21 01 53	<u>Molucca Passage</u> 0.5 N 126.1 E
			H = 20 43 19.2 h = 5 km MAG=5.3 (USCGS) D = 104.9
18.	+eP	A 23 56 04.5	<u>Fox Islands, Aleutian Islands</u>
	e	A 56 16	52.63 N 167.89 W
	eS*	B 24 05 50	H = 23 44 11.2 h = 18 km MAG=5.4
	LmH	B 36.5	D = 77.10 Az = 0.3 (USCGS)
	LmV	B 41.0	PV:1.4s 100.0nm MPV=5.8 LmH:19s 1.7/um MLH=5.4 LmV:17s 2.1/um MLV=5.6

June 1969

Moxa

Day	Phase	h m s	Remarks
19.	eP A	06 56 57	<u>Crete</u> 34.27 N 25.09 E H = 06 52 33.5 h = 16 km MAG=4.6 D = 19.10 Az = 333.0 (USCGS)
19.	eP A epP A eSKS B LmH B LmV B	07 15 35 15 47 25 55 51.5 58.3	<u>Ryukyu Islands</u> 28.15 N 129.97 E H = 07 03 04.9 h = 45 km MAG=5.5 D = 84.56 Az = 325.8 (USCGS) PV:1.6s 77.0nm MPV=5.7 pPV:2.2s 131.0nm LmH:20s 1.3/um MLH=5.3 LmV:16s 1.4/um MLV=5.5
19.	ePn A e A	13 19 50 20 33	<u>Austria</u> 47.3 N 11.4 E H = 13 18 55 (BCIS) D = 3.4
19.	+ePKIKP A -iPKHKP A iPKP2 A	13 55 25 55 27 55 29	<u>Fiji Islands</u> 17.97 S 178.33 W H = 13 36 45.9 h = 545 km MAG=5.0 D = 146.44 Az = 348.5 (USCGS) PKIKPV:1.4s 35.0nm PKHKPV:1.2s 85.2nm PKP2V:1.4s 97.6nm
19.	eP A	18 26 49	<u>Afghanistan-USSR Border Region</u> 38.49 N 70.97 E H = 18 18 59.8 h = 117 km MAG=4.8 D = 42.89 Az = 306.4 (USCGS)
19.	+eP A LmH B	19 08 14 42.3	<u>Near East Coast of Kamohatka</u> 53.26 N 159.93 E H = 18 56 46.9 h = 41 km MAG=5.2 D = 73.08 Az = 339.5 (USCGS) PV:1.5s 55.3nm MPV=5.5
19.	+iP A	20 36 43.5	<u>Unimak Island</u> 54.18 N 164.05 W H = 20 24 59.6 h = 25 km MAG=5.0 D = 75.48 Az = 2.9 (USCGS) PV:1.0s 17.7nm MPV=5.1

124

June 1969

Moxa

Day	Phase	h m s	Remarks
19.	+iP A	20 36 43.5	<u>Unimak Island</u> 54.18 N 164.05 W H = 20 24 59.6 h = 25 km MAG=5.0 D = 75.48 Az = 2.9 (USCGS) PV:1.0s 17.7nm MPV=5.1
19.	eP A e A	21 45 11 45 21	<u>Fox Islands, Aleutian Islands</u> 52.75 N 167.83 W H = 21 33 16.6 h = 14 km MAG=5.0 D = 76.98 Az = 0.4 (USCGS)
20.	-iP AB i A +ipP A -i B eS B LmV B LmH B	02 49 38 49 47.5 49 50 50 11 59 22 03 30.2 30.6	<u>South of Alaska</u> 53.17 N 162.44 W H = 02 37 51.5 h = 44 km MAG=5.7 D = 76.43 Az = 3.9 (USCGS) PV(A):1.4s 163.0nm MPV=6.0 PV(B):5s 0.8/um MPV=6.1 LmV:17s 0.7/um MLV=5.1 LmH:18s 0.8/um MLH=5.1
20.	eP A epP A pPm A esP A e(PP) A	06 53 15 53 33 53 35 53 43 55 53	<u>Near East Coast of Honshu, Japan</u> 38.56 N 141.79 E H = 06 41 06.2 h = 86 km MAG=5.4 D = 80.99 Az = 330.5 (USCGS) pPmV:1.3s 65.5nm
20.	+iP A ipP A e A i A LmH B LmV B	15 49 49.5 50 05.5 50 09 50 10 16 23.5 27.7	<u>Near East Coast of Honshu, Japan</u> 40.76 N 142.09 E H = 15 37 50.2 h = 67 km MAG=5.4 D = 79.19 Az = 330.5 (USCGS) PV:1.5s 70.3nm MPV=5.4 LmH:16s 1.0/um LmV:19s 0.7/um
21.	eP A	06 50 03	<u>Samar, Philippine Islands</u> 11.33 N 125.34 E H = 06 36 43.1 h = 73 km MAG=5.3 D = 95.78 Az = 324.1 (USCGS) PV:1.6s 19.2nm MPV=5.4

125

June 1969

Moxa

Day	Phase	h m s	Remarks
21.	eP LmH LmV	A 08 00 39.5 B 38.4 E 49.0	<u>Luzon, Philippine Islands</u> 13.30 N 122.80 E H = 07 47 24.4 h = 23 km MAG=5.2 D = 92.73 Az = 323.5 (USCGS) PV:1.6s 16.5nm MPV=5.2 LmH:22s 1.5/um MLH=5.4 LmV:17s 0.8/um MLV=5.3
21.	eP ePP	A 15 24 53.5 B 29 02	<u>Java Sea</u> 5.46 S 109.65 E H = 15 12 10.0 h = 561 km MAG=5.6 D = 99.29 Az = 320.3 (USCGS) PV:1.7s 36.4nm MPV=5.5
21.	eP e e	A 16 42 51 A 43 04 A 43 09	<u>Southern Iren</u> 27.36 N 57.51 E H = 16 35 08.3 h = 65 km MAG=5.3 D = 41.70 Az = 316.6 (USCGS) PV:1.4s 18.6nm MPV=4.7
22.	+eiP i LmH LmV	A 01 42 43 A 42 47 E 02 07.7 E 07.7	<u>Tibet-India border Region</u> 30.63 N 79.37 E H = 01 33 24.1 h = 19 km MAG=5.4 D = 53.22 Az = 312.6 (USCGS) PV:1.6s 88.0nm MPV=5.5 LmH:12s 0.5/um MLH=4.7 LmV:13s 0.9/um MLV=5.1
22.	eP1 -eP2 LmV LmH	B 02 45 35 AE 45 40.5 B 03 25.4 B 25.5	<u>Kurile Islands</u> 49.24 N 158.47 E H = 02 33 52.8 h = normal MAG=5.6 D = 76.53 Az = 339.0 (USCGS) P1V(B):11s 0.7/um MPV=5.7 P2V(A):1.4s 46.6nm MPV=5.4 LmV:16s 1.6/um MLV=5.5 LmH:15s 1.8/um MLH=5.5
22.	e e(PiP2)	A 06 32 51 A 33 00	<u>South of Kermadec Islands</u> 31.97 S 177.90 W H = 06 12 24.0 h = normal MAG=4.9 (USCGS) D = 160.0

126

June 1969

Moxa

Day	Phase	h m s	Remarks
22.	+iP i ePPP ePPPP eS eSPP eSS eSSS LmV LmH	A 10 57 17.5 A 57 29.5 B 11 02 00 B 03 20 B 07 12 B 08 08 B 12.7 B 16.5 B 35.3 B 35.4	<u>Andreanof Islands, Aleutian Is.</u> 51.48 N 179.95 W H = 10 45 24.5 h = 56 km MAG=6.1 D = 77.78 Az = 352.5 (USCGS) PV:1.1s 423.0nm MPV=6.5 LmV:20s 1.5/um MLV=5.4 LmH:20s 2.4/um MLH=5.5
22.	eiP epP eiSKS eiS e(SP)	A 14 42 38 A 43 12.5 C 52 52 C 53 05 C 53 52	<u>Chiapas, Mexico</u> 16.93 N 93.61 W H = 14 30 10.7 h = 151 km MAG=5.1 D = 86.38 Az = 38.0 (USCGS) PV:2.0s 34.2nm MPV=4.8
22.	eP	A 16 10 10	<u>Andreanof Islands, Aleutian Is.</u> 51.58 N 179.97 W H = 15 58 18.0 h = 57 km MAG=4.9 D = 77.67 Az = 352.5 (USCGS) PV:0.6s 9.6nm MPV=5.1
23.	ePKP2 e	A 00 38(44) A 38 48.5	<u>Auckland Islands Region</u> 49.31 S 164.20 E H = 00 17 56.5 h = 27 km MAG=5.3 (USCGS) D = 162.4
23.	ePn ePb iPg iSn iSg	A 00 54 49 A 54 55.5 A 55 01 A 55 22 A 55 33	<u>Germany</u> 48.30 N 9.11 E H = 00 54 03.2 h = 9 km MAG=- D = 2.86 Az = 33.9 (USCGS)
23.	+iP	A 06 09 24.4	<u>Near East Coast of Honshu, Japan</u> 37.42 N 141.51 E H = 05 57 06.9 h = normal MAG=5.0 D = 81.86 Az = 330.4 (USCGS) PV:1.1s 22.2nm MPV=5.2

127



June 1969

Moxa

Day	Phase	h m s	Remarks
23.	eP1	A 07 21 32	<u>Near Coast of Jalisco, Mexico</u>
	eP2	A 21 35	18.37 N 104.55 W
	ePP	A 25 09	H = 07 08 27.7 h = 36 km MAG=5.3
	ePP	B 25 12	D = 91.43 Az = 34.9 (USCGS)
	eSKS	B 32 03	P1V:1.8s 20.3nm MPV=5.2
	eS	B 32 35	P2V:2.2s 109.0nm MPV=5.8
	LmH	B 08 06.0	LmH:16.5s 0.9/um MLH=5.3
	LmV	B 06.0	LmV:17s 1.1/um MLV=5.4
24.	iP	A 00 47 34.3	<u>Nicaragua</u> 11.66 N 85.72 W
	ePP	A 51 03	H = 00 35 05.5 h = 100 km MAG=5.3
	LmH	B 01 14.0	D = 85.69 Az = 39.3 (USCGS)
	LmV	B 22.0	PV:2.0s 34.2nm MPV=4.9
24.	ePKP	A 03 47 59.5	<u>East New Guinea</u> 5.82 S 146.77 E
	ePP	B 49 35	H = 03 29 17.3 h = 113 km MAG=5.6
	e	A 50 09	D = 121.79 Az = 328.1 (USCGS)
	e	B 50 32	PKPV:1.2s 12.2nm
	eSS	B 04 06 04	LmH:24s 2.3/um
	LmH	B 32.0	LmV:16s 0.5/um
	LmV	B 46.8	
24.	eP1	B 11 11(20)	<u>Iuzon, Philippine Islands</u>
	eP2	A 12 08	13.31 N 123.03 E
	e	C 22 16	H = 10 58 07.3 h = 42 km MAG=5.1 (USCGS)
	e	B 23 31	D = 92.8
	eSP	B 23 40	P2V:2.0s 21.4nm MPV=5.2
	e	B 25 16	LmH:22s 2.6/um MLH=5.6
	eSS	B 28 48	LmV:18s 0.9/um MLV=5.3
	LmH	B 49.1	
	LmV	B 55.7	
	24.	ePn	A 13 26 46
e		A 26 51	H = 13 25 20.3 h = 45 km MAG=4.2
e		A 26 58	D = 5.83 Az = 9.0 (USCGS)
e		A 27 08	LmH:11s 0.6/um
ePg		A 27 12	LmV:11s 0.6/um
iSn		A 27 51.7	
eSg		A 28 26	

June 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
24.	LmH	B 13 29.5	
	LmV	B 29.5	
25.	eP	A 00 21 57	<u>Mindoro, Philippine Islands</u>
	e	A 22 07	13.52 N 120.29 E
	ePP	A 25 32	H = 00 08 55.3 h = 53 km MAG=5.1
	eSKS	B 32 25	D = 91.10 Az = 322.9 (USCGS)
	eS	B 32 55	PV:2.0s 34.0nm MPV=5.3
	eSP	B 33 56	LmV:14s 1.3/um MLV=5.5
	LmV	B 01 10.0	LmH:14.5s 1.6/um MLH=5.6
	LmH	B 11.0	
25.	eP	A 04 51 06	<u>Kirgiz-Sinkiang Border Region</u>
			41.43 N 79.41 E
			H = 04 42 40.6 h = 35 km MAG=4.8 D = 46.43 Az = 305.6 (USCGS)
25.	eP	A 06 16 09	<u>Dodecanese Islands</u> 35.92 N 27.53 E
	epP	A 16 15.5	H = 06 11 50.8 h = 38 km MAG=4.7
	LmV	B 24.3	D = 18.67 Az = 326.9 (USCGS)
	LmH	B 25.3	PV:1.5s 25.0nm MPV=4.2
			LmV:10s 0.4/um MLV=4.1 LmH:16s 0.5/um MLH=3.9
25.	eP	A 07 37 14.5	<u>Northern Sumatra</u> 4.50 N 96.68 E
	LmH	B 08 20.5	H = 07 24 49.4 h = normal MAG=5.3
	LmV	B 21.5	D = 83.41 Az = 320.3 (USCGS) PV:1.7s 39.0nm MPV=5.4 LmH:17s 0.7/um MLH=5.1 LmV:16s 0.6/um MLV=5.1
25.	ePg	A 15 26 00.5	Explosion 51°22.3'N 12°53.5'E
	eSg	A 26 16.0	yield 4.56 to (CLL) D = ca. 1.1
25.	LmH	B 22 43.5	Probably <u>Galapagos Islands Region</u>
	LmV	B 44.5	(USCGS) LmH:21s 0.8/um LmV:22s 0.8/um

June 1969

Moxa

Day	Phase	h m s	Remarks
26.	ePP	E 02 48(30)	<u>Galapagos Islands Region</u> 2.01 N 90.49 W H = 02 30 58.4 h = normal MAG=5.3 (USCGS) D = 96.2 XV:1.7s 36.0nm LmH:22s 1.4/um MLH=5.4 LmV:23s 1.2/um MLV=5.3
	eX	A 48 40.5	
	e	A 48 52.4	
	e	A 48 58.4	
	ePS	E 57 08	
	eSS	E 03 03 35	
	e(SSS)	B 05 55	
	LmH	B 22.0	
LmV	B 22.0		
26.	eP	A 15 57 12	<u>E.Russia-N.E.China Border Region</u> 42.63 N 130.96 E H = 15 46 31.7 h = 495 km MAG=4.5 D = 73.13 Az = 324.6 (USCGS)
27.	eP	A 02 27 43	<u>Hokkaido, Japan</u> 42.40 N 142.94 E H = 02 15 46.3 h = 32 km MAG=4.9 D = 78.07 Az = 330.7 (USCGS) PV:1.4s 32.5nm MPV=5.3 LmH:18s 0.9/um MLH=5.1 LmV:17s 0.6/um MLV=5.0
	e	A 28 04	
	e	A 28 14	
	eS	B 37 30	
	LmH	E 03 01.4	
	LmV	E 05.5	
27.	ePKIKP	A 08 00 46	<u>New Hebrides Islands</u> 14.68 S 167.68 E H = 07 41 22.2 h = 39 km MAG=5.3 D = 139.23 Az = 336.7 (USCGS) PKIKPV:1.8s 33.8nm
	e	A 00 53	
27.	eP	A 09 12 08	<u>South Atlantic Ridge</u> 21.05 S 11.65 W H = 09 00 32.7 h = normal MAG=5.0 D = 74.27 Az = 15.1 (USCGS)
	e	A 12 13	
	e	A 12 22	
27.	ePKP	A 12 29 29	<u>Samoa Islands</u> 16.64 S 172.57 W H = 12 09 51.0 h = normal MAG=4.7 D = 145.91 Az = 355.2 (USCGS) PKPV:1.4s 34.9nm
	i	A 29 29.5	
27.	iPg	A 15 05 20	<u>Hilders, explosion</u> 50°32.50'N 10°02.36'E H = 15 05 00.91 yield 11.955 to (Hannover) D = ca. 1.0
	eSg	A 05 34	

130

June 1969

Moxa

Day	Phase	h m s	Remarks
27.	ePKIKP	A 15 49 48	<u>Fiji Islands</u> 19.91 S 178.26 W H = 15 31 07.8 h = 562 km MAG=5.0 D = 148.35 Az = 348.0 (USCGS) PKHKPV:1.1s 58.5nm
	-iPKHKP	A 49 52	
	ePKP2	A 49 57	
28.	eP	A 04 47 21	<u>Off Coast of Central America</u> 12.82 N 89.22 W H = 04 34 42.6 h = 69 km MAG=5.2 D = 86.95 Az = 38.8 (USCGS) LmH:18s 0.4/um LmV:20s 0.6/um
	eSKS	B 57 50	
	LmH	B 05 25.0	
LmV	B 26.0		
28.	eP	A 14 35 50	<u>Mindanao, Philippine Islands</u> 6.73 N 126.64 E H = 14 22 15.0 h = 114 km MAG=5.2 D = 100.24 Az = 324.1 (USCGS)
	e	A 35 55	
28.	LmH	B 18 32.7	Probably <u>Southern Alaska</u> (USCGS) LmH:15.5s 0.9/um LmV:17s 1.1/um
	LmV	B 38.0	
28.	ePKHKP	A 21 44 32	<u>Loyalty Islands</u> 22.26 S 170.58 E H = 21 24 50.8 h = 33 km MAG=4.8 D = 147.24 Az = 335.0 (USCGS) PKHKPV:0.9s 19.5nm PKP2V:1.1s 36.3nm
	ePKP2	A 44 34.5	
29.	ePKP	A 08 15 45	<u>Fiji Islands</u> 17.74 S 178.67 W H = 07 57 11.3 h = 585 km MAG=5.1 D = 146.15 Az = 348.2 (USCGS)
29.	ePKIKP	A 10 53 58	<u>Kermadec Islands</u> 30.51 S 178.24 W H = 10 34 06.5 h = 43 km MAG=5.6 D = 158.57 Az = 342.6 (USCGS) PKIKPV:2.1s 63.3nm LmV:19s 1.2/um LmH:18s 1.2/um MLH=5.7
	ePKHKP	A 54 12	
	e	A 54 16	
	e	A 54 24	
	ePKP2	A 54 32	
	ePKP2	B 54 34	
	i	A 54 36	
	ePP	B 58 10	

131

June 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
29.	e(SKSP) B	11 08 32	
	LmV E	12 18.7	
	LmH E	19.1	
29.	eiPKHKP A	11 42 04.5	<u>South of Fiji Islands</u> 24.01 S 179.68 E H = 11 23 11.6 h = 555 km MAG=4.7 D = 151.85 Az = 343.8 (USCGS)
	epPKP A	44 08	
29.	ePKIKP A	17 29 11	<u>Ballyeny Islands</u> 62.78 S 166.27 E H = 17 09 13.9 h = normal MAG=5.5 D = 161.69 Az = 240.2 (USCGS)
	e E	29 18	
	ePKP2 A	29 56.5	PKIKPV:1.3s 10.9nm
	e A	30 06.5	LmH:18s 3.7/um MLH=6.1
	e A	30 10	LmV:18s 4.3/um
	eSS E	54 24	
	LmH E	18 58.0	
	LmV E	59.0	
29.	ePKP2 A	18 22 36.5	<u>Ballyeny Islands Region</u> 62.66 S 166.39 E H = 18 01 51.7 h = 41 km MAG=5.3 (USCGS) D = 162.0 PKP2V:1.2s 4.1nm
	e A	22 43	
30.	eP A	09 02 27	<u>Eastern India</u> 26.89 N 92.63 E H = 08 51 56.7 h = 64 km MAG=5.1 D = 64.17 Az = 315.7 (USCGS) PV:1.2s 16.3nm MPV=4.9
30.	eP A	09 51 21.5	<u>Kurile Islands</u> 45.61 N 151.19 E H = 09 39 27.2 h = 48 km MAG=4.6 D = 77.93 Az = 335.0 (USCGS) PV:1.0s 11.8nm MPV=5.0
30.	eP A	18 47 10	<u>North Atlantic Ocean</u> 20.02 N 64.14 W H = 18 36 24.2 h = 17 km MAG=5.3 D = 65.82 Az = 42.6 (USCGS) PV:2.0s 42.8nm MPV=5.3

July 1969

Moxa

Day	Phase	h m s	Remarks
1.	iPKP A	18 41 59	<u>Tonga Islands</u> 15.86 S 175.11 W H = 18 22 52.8 h = 263 km MAG=4.8 D = 144.88 Az = 352.6 (USCGS) PKPV:1.0s 29.5nm
	ipPKP A	43 15	
2.	eP A	00 20 37	<u>Ascension Island</u> 6.82 S 11.58 W H = 00 10 27.6 h = normal MAG=4.8 D = 60.65 Az = 16.7 (USCGS)
	e A	20 50	
	e A	20 57	LmH:17s 0.5/um MLH=4.7
	LmH B	48.4	LmV:18s 0.5/um MLV=4.8
	LmV E	48.4	
2.	eP A	00 38 25.5	<u>Ascension Island</u> 7.09 S 12.03 W H = 00 28 13.4 h = normal MAG=4.8 D = 61.03 Az = 17.0 (USCGS)
	e A	38 38	
	e A	38 47	PV:1.4s 11.6nm MPV=4.8
	LmH B	01 06.3	LmH:16s 0.4/um MLH=4.6
	LmV B	06.3	LmV:16s 0.5/um MLV=4.8
2.	ePn A	07 57 47.5	<u>Central Italy</u> 42.26 N 12.06 E H = 07 55 45.5 h = normal MAG=4.4 D = 8.40 Az = 358.1 (USCGS)
	ePg A	58 27	
	LmH E	08 02.1	PV:1.0s 31.4nm
	LmV B	02.1	LmH:14s 0.4/um MLH=3.3 LmV:14s 0.5/um
2.	ePn A	08 05 00.5	<u>Central Italy</u> 42.29 N 12.22 E H = 08 02 59.4 h = normal MAG=4.5 D = 8.37 Az = 357.4 (USCGS)
	ePg A	05 40	
	LmH E	09.3	PV:1.1s 16.1nm
	LmV B	09.3	LmH:12s 0.3/um MLH=3.2 LmV:12s 0.3/um
2.	eP A	10 11 20	<u>Burma</u> 20.71 N 99.37 E H = 09 59 53.4 h = normal MAG=5.0 D = 72.88 Az = 318.3 (USCGS)
	e A	11 24	
2.	eP A	10 34 09	<u>Southern Italy</u> 39.67 N 16.66 E H = 10 31 22.0 h = normal MAG=4.3
	LmH B	38.6	

July 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
2.	LmV B	10 40.3	D = 11.54 Az = 343.7 (USCGS) LmH:12s 0.3/um MPV=3.4 LmV:13s 0.3/um
2.	ePKP2 A	17 47 41	<u>Kermadec Islands</u> 28.26 S 176.55 W H = 17 27 15.7 h = 8 km MAG=4.8 D = 156.80 Az = 346.7 (USCGS) PKP2V:1.3s 17.5nm
2.	e A	19 47 02	<u>Northern Italy</u> 45.0 N 7 1/2 E H = 19 43 38 (BCIS) D = 6.3
	eSg A	47 05	
3.	eP A	09 45 25	<u>Greece</u> 38.49 N 22.11 E H = 09 42 02.3 h = 26 km MAG=4.6 D = 14.26 Az = 331.9 (USCGS)
	e(pP) A	45 34	
	e(sP) A	45 38.5	
	LmH B	51.6	LmH:15s 1.5/um MLH=4.2
	LmV B	51.6	LmV:14s 1.5/um
3.	ePKP A	14 02 58	<u>Tonga Islands</u> 16.83 S 173.69 W H = 13 43 22.2 h = 50 km MAG=4.5 D = 146.00 Az = 354.0 (USCGS) PKPV:1.1s 16.1nm
	e A	03 03.5	
	e A	03 29	
3.	eP A	17 12 02.5	<u>Near Coast of Guerrero, Mexico</u> 16.74 N 98.47 W H = 16 59 06.9 h = 26 km MAG=5.2 D = 89.36 Az = 36.7 (USCGS) PV:1.2s 12.2nm MPV=5.0 LmV:18s 0.4/um MLV=4.9 LmH:18s 0.4/um MLH=4.9
	e A	12 11	
	LmV B	54.7	
	LmH B	55.5	
3.	eP A	18 13 35	<u>Rat Islands, Aleutian Islands</u> 51.75 N 177.99 E H = 18 01 48.5 h = 84 km MAG=5.1 D = 77.33 Az = 351.2 (USCGS) PV:1.9s 34.1nm MPV=4.9

July 1969

Moxa

Day	Phase	h m s	Remarks
4.	+iP A	02 54 46.5	<u>Eastern Kazakh SSR</u> 49.75 N 78.19 E H = 02 46 57.0 h = 0 km MAG=5.3 D = 41.32 Az = 297.8 (USCGS) PV:0.8s 57.7nm MPV=5.4 Probably underground explosion
	ePn A	56 19	
	e A	56 29	
4.	eP A	06 46 05	<u>Peru-Ecuador Border Region</u> 4.09 S 80.92 W H = 06 32 43.4 h = normal MAG=4.5 D = 94.75 Az = 39.7 (USCGS)
4.	ePKIKP A	07 08 07	<u>Fiji Islands</u> 19.96 S 178.59 W H = 06 49 35.3 h = 650 km MAG=4.9 D = 148.33 Az = 347.6 (USCGS)
	iPKHKP A	08 11.5	
	ePKP2 A	08 16.5	
4.	eP A	10 18 17	<u>Dodecanese Islands</u> 35.28 N 27.76 E H = 10 13 51.8 h = normal MAG=4.3 D = 19.31 Az = 327.6 (USCGS) PV:1.3s 21.8nm MPV=4.2
	e A	18 21	
	e A	18 27	
4.	eP A	11 28 44	<u>South of Panama</u> 7.42 N 82.70 W H = 11 16 01.0 h = normal MAG=5.2 D = 87.06 Az = 39.5 (USCGS) PV:2.0s 51.3nm MPV=5.4 LmH:16s 0.6/um MLH=5.1 LmV:16s 0.6/um MLV=5.1
	e A	28 56	
	eSKS C	39 12	
	eSS C	45 20	
	LmH B	12 06.5	
	LmV B	06.5	
4.	ePKP2 A	23 14 28	<u>West of Maquarie Island</u> 55.86 S 147.24 E H = 22 54 18.1 h = normal MAG=4.9 D = 153.31 Az = 277.5 (USCGS) PV:1.3s 30.6nm LmV:20s 0.8/um LmH:18s 0.8/um MLH=5.5
	e A	14 35	
	e A	14 43	
	LmV B	24 31.0	
	LmH B	31.5	
5.	ePKHKP A	01 52 15	<u>Tonga Islands</u> 19.29 S 175.87 W H = 01 32 50.8 h = 187 km MAG=4.6 D = 148.15 Az = 351.0 (USCGS) PKHKPV:1.2s 24.4nm
	e A	53 17	

July 1969

Moxa

Day	Phase	h m s	Remarks
5.	LmV LmH	B 03 03.6 B 05.5	Probably <u>West New Guinea Region</u> (USCGS) LmV:16s 0.4 $\mu$ m LmH:18s 0.5 $\mu$ m
5.	eP LmV LmH	A 05 08 47 C 48.0 C 51.0	<u>Northern Peru</u> 5.64 S 77.16 W H = 04 55 33.7 h = 37 km MAG=5.2 D = 93.54 Az = 39.6 (USCGS) LmV(C):23s 0.3 $\mu$ m MLV=4.8
5.	ePKIKP iPKHKP ePKP2	A 06 27 30 A 27 35.5 A 27 42	<u>Fiji Islands</u> 21.20 S 178.84 W H = 06 08 42.4 h = 500 km MAG=4.7 D = 149.48 Az = 346.9 (USCGS)
5.	eP ePP	A 11 26 30 A 30 38	<u>Mariana Islands</u> 18.63 N 146.96 E H = 11 12 43.6 h = 57 km MAG=5.0 D = 100.64 Az = 332.9 (USCGS) PV:1.4s 14.0nm MPV=5.3
5.	eP	A 15 34 08	<u>Near East Coast of Kamchatka</u> 54.00 N 160.45 E H = 15 22 45.2 h = 48 km MAG=4.7 D = 72.49 Az = 339.8 (USCGS) PV:1.6s 27.5nm MPV=5.1
6.	ePKHKP ePKP2	A 11 09 29 A 09 43.5	<u>South of Fiji Islands</u> 25.41 S 179.57 E H = 10 50 30.5 h = 522 km MAG=4.8 D = 153.15 Az = 342.9 (USCGS) PKHKPV:1.4s 7.0nm
6.	LmH LmV	B 12 31.7 B 32.0	Probably <u>Ryukyu Islands</u> (USCGS) LmH:16s 0.5 $\mu$ m LmV:12s 0.6 $\mu$ m
6.	ePKP e	A 14 47 55 A 48 06	<u>Tonga Islands</u> 15.32 S 173.13 W H = 14 28 21.9 h = normal MAG=5.0 D = 144.56 Az = 354.8 (USCGS) PKPV:1.2s 14.2nm

July 1969

Moxa

Day	Phase	h m s	Remarks
6.	ePKP e e e LmH LmV	A 14 50 50 A 50 59 A 51 02 A 51 08 B 15 53.4 B 56.6	<u>Tonga Islands</u> 15.29 S 173.43 W H = 14 31 16.7 h = normal MAG=5.3 D = 144.50 Az = 354.5 (USCGS) PKPV:1.2s 30.5nm LmH:20s 0.6 $\mu$ m MLH=5.6 LmV:20s 0.4 $\mu$ m
7.	eP ePP e e eSKS e eS eSP eSS LmH LmV	A 04 57 10 A 05 01 24 A 01 31 A 01 41.5 C 07(32) C 07 48 C 08 45 C 10 26 C 15 55 B 47.5 B 47.5	<u>Mariana Islands</u> 16.47 N 147.31 E H = 04 43 15.4 h = 38 km MAG=5.7 D = 102.70 Az = 332.9 (USCGS) PV:1.2s 10.1nm MPV=5.4 PPV:2.0s 68.4nm MPPV=5.7 LmH:19s 3.7 $\mu$ m MLH=5.9 LmV:18.5s 4.0 $\mu$ m MLV=6.0
7.	ePn iSn	A 17 39 04.5 A 39 32.5	<u>Germany</u> 48.9 N 9.0 E H = 17 38 20.4 (ECIS) D = 2.4
7.	eP LmH LmV	A 18 15 13 B 19.4 B 20.7	<u>Albania</u> 40.63 N 19.82 E H = 18 12 23.5 h = 2 km MAG=4.2 D = 11.54 Az = 333.0 (USCGS) PV:0.8s 15.4nm
7.	ePn eSn	A 18 29 02 A 29 30	<u>Germany</u> 48.9 N 9.0 E H = 18 28 18.6 (ECIS) D = 2.4
8.	eP ePP	A 04 20 47 A 25 07.5	<u>Molucca Passage</u> 2.07 N 126.58 E H = 04 06 39.7 h = 16 km MAG=5.5 D = 103.94 Az = 323.5 (USCGS) PV:1.2s 14.2nm MPV=5.7

July 1969

Moxa

Day	Phase	h m s	Remarks
8.	eX A	07 31 03	<u>South of Kermadec Islands</u> 34.13 S 179.17 W H = 07 10 33.5 h = 110 km MAG=4.5 (USCGS) D = 161.8 XV:2.0s 42.7nm
	ePKP2 A	31 07	
	ePP A	34 45	
8.	eP A	08 12 37	<u>Ionian Sea</u> 37.56 N 20.28 E H = 08 09 17.5 h = normal MAG=5.4 D = 14.47 Az = 337.4 (USCGS) PV:2.0s 77.0nm LmH:16.5s 34.3/um MLH=5.5 LmV:11s 13.8/um MLV=5.5
	i A	12 49.5	
	i E	13 08	
	eS C	15 22	
	LmH B	17.9	
	LmV B	20.7	
9.	+eP A	02 07 33	<u>Near Islands, Aleutian Islands</u> 51.55 N 174.81 E H = 01 55 39.8 h = 22 km MAG=5.0 D = 77.18 Az = 349.1 (USCGS) PV:1.0s 27.6nm MPV=5.3 LmV:16s 0.5/um MLV=5.0 LmH:16s 0.8/um MLH=5.1
	e A	07 37	
	eS C	17 24	
	eSS C	22.4	
	LmV E	49.4	
	LmH B	49.7	
9.	ePKHKP A	03 23 12	<u>South of Kermadec Islands</u> 34.21 S 178.94 W H = 03 02 58.0 h = 37 km MAG=5.1 (USCGS) D = 161.9 PKP2V:1.6s 49.5nm LmH:17s 0.4/um MLH=5.2 LmV:17s 0.3/um
	eiPKP2 A	23 41	
	LmH C	04 52.5	
	LmV C	52.5	
9.	ePKP2 A	05 50 29	<u>South of Kermadec Islands</u> 34.14 S 178.83 W H = 05 29 46.9 h = normal MAG=5.6 (USCGS) D = 161.8 PKP2V:1.4s 20.9nm
	e A	50 35	
	e A	50 40	
9.	eP A	06 30 32	<u>Hokkaido, Japan</u> 44.33 N 141.04 E H = 06 19 01.3 h = 145 km MAG=4.5 D = 75.71 Az = 329.5 (USCGS)

July 1969

Moxa

Day	Phase	h m s	Remarks
9.	eP A	08 24 20	<u>Kurile Islands</u> 44.38 N 149.60 E H = 08 12 21.1 h = 37 km MAG=4.4 D = 78.56 Az = 334.2 (USCGS) PV:1.4s 14.0nm MPV=4.8
	LmH B	59.0	
	LmV B	09 03.0	
9.	eP A	17 30 42	<u>Albania</u> 40.55 N 19.76 E H = 17 27 55.9 h = normal MAG=4.5 D = 11.58 Az = 333.3 (USCGS) LmH:12s 0.5/um MLH=3.7 LmV:12s 0.5/um
	LmH B	36.5	
	LmV B	36.6	
10.	eP A	19 25 04.5	<u>Kurile Islands</u> 49.28 N 155.34 E H = 19 13 20.9 h = 33 km MAG=5.2 D = 75.72 Az = 337.1 (USCGS) LmH:16s 0.3/um MLH=4.7 LmV:16s 0.3/um MLV=4.7
	LmH B	20 03.2	
	LmV B	03.2	
11.	eP A	01 49 48	<u>Dodecanese Islands</u> 36.17 N 28.85 E H = 01 45 25.1 h = normal MAG=4.4 D = 19.06 Az = 324.7 (USCGS)
	LmH C	57.0	
	LmV C	57.5	
12.	eP A	00 22 52	<u>Greece</u> 38.8 N 21.5 E H = 00 19 36 (BCIS) D = 13.8
12.	eP A	03 09 51	<u>Western Caucasus</u> 44.85 N 37.14 E H = 03 05 44.6 h = 39 km MAG=4.4 D = 18.07 Az = 297.8 (USCGS) LmV(C):16s 0.4/um MLV=4.0 LmH(C):16s 0.3/um MLH=3.7
	LmV C	18.3	
	LmH C	18.4	
12.	-iP1 A	06 08 58	<u>Chagos Archipelago</u> 6.00 S 71.38 E H = 05 57 11.1 h = normal MAG=5.3 D = 76.19 Az = 325.5 (USCGS) P1V:1.2s 28.4nm MP1V=5.3 P2V:1.5s 50.3nm MP2V=5.4 P3V:1.2s 24.4nm MP3V=5.2
	eP2 A	09 07	
	eP3 A	09 10	
	eS C	18 40	
	e C	21 50	
	eSS C	22 28	
	LmH C	50.0	

July 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP1	A 13 12 35	<u>Kurile Islands</u> 46.46 N 153.27 E
	iP2	A 12 36	H = 13 00 36.9 h = 12 km MAG=5.3 (USCGS)
	ePP	C 15 28	D = 77.5
	eS	C 22 23	P2V:0.8s 100.0nm MPV=6.0
	e	C 22 37	LmV(C):18s 3.0/um MLV=5.7
	eSS	C 27 55	LmH(C):17s 4.3/um MLH=5.9
	LmV	C 49.5	
	LmH	C 50.2	
12.	ePKIKP	A 13 35(39)	<u>South of Fiji Islands</u> 26.07 S 178.33 E
	ePKHKP	A 35 47	H = 13 16 55.5 h = 603 km MAG=5.0
	ePKP2	A 35 59	D = 153.43 Az = 340.9 (USCGS)
	e	A 36 03	PKHKPV:1.4s 18.6nm
	e(pPKP)	A 38 08	
12.	eP	A 15 22 46	<u>Kurile Islands</u> 46.32 N 153.07 E. H = 15 10 47.1 h = normal MAG=4.3 D = 77.7 (USCGS)
12.	+eP1	AB 19 28 43	<u>Off East Coast of Honshu, Japan</u>
	eP2	A 28 52	39.73 N 143.52 E
	eP3	A 29 10	H = 19 16 31.6 h = normal MAG=5.2
	eP4	A 31 37	D = 80.3 (USCGS)
	ePP	AB 31 45	P1V(A):1.8s 43.9nm MP1V(A)=5.1
	e	A 31 53	P1V(B):7s 1.0/um MP1V(B)=5.9
	eS	C 38 48	P2V:2.0s 85.4nm MP2V(A)=5.4
	LmH	P 20 03.5	P3V:1.6s 49.5nm MP3V(A)=5.2
	LmV	E 10.9	PPV(B):11s 0.83/um MPPV(B)=5.8 LmH:19s 13.9/um MLH =6.3 LmV:16s 7.3/um MLV =6.2
12.	ePKP	A 20 29 49	<u>Tonga Islands</u> 15.30 S 173.87 W H = 20 10 18.0 h = 53 km MAG=4.0 D = 144.47 Az = 354.0 (USCGS)
13.	eP	A 05 53 27	<u>Kurile Islands</u> 43.29 N 147.39 E H = 05 41 25.5 h = normal MAG=4.4 D = 78.83 Az = 333.1 (USCGS)

July 1969

Moxa

Day	Phase	h m s	Remarks
13.	ePKP	A 22 38 38	<u>Loyalty Islands</u> 21.92 S 170.06 E H = 22 18 57.7 h = 26 km MAG=4.6 D = 146.72 Az = 334.8 (USCGS) PKPV:1.0s 15.7nm
14.	eP	A 11 45 05	<u>Kurile Islands</u> 47.40 N 152.82 E H = 11 33 22.6 h = 91 km MAG=4.2 D = 76.77 Az = 335.8 (USCGS)
14.	eP	A 14 27 40	<u>Kurile Islands</u> 44.10 N 149.53 E H = 14 15 40.3 h = 37 km MAG=4.3 D = 78.79 Az = 334.2 (USCGS)
14.	e(pPKP)	A 14 40 44	<u>South of Fiji Islands</u> 23.30 S 179.81 E H = 14 19 45.9 h = 588 km MAG=4.7 (USCGS) D = 151.0
14.	eP	A 16 08 03.5	<u>Off East Coast of Honshu, Japan</u>
	LmH	B 42.4	39.72 N 143.58 E
	LmV	B 47.4	H = 15 55 55.3 h = 46 km MAG=4.7 D = 80.65 Az = 331.3 (USCGS) PV:1.4s 9.3nm MPV=4.6 LmH:19s 0.6/um MLH=5.2 LmV:19s 0.4/um MLV=5.0
15.	ePKHKP	A 04 30 25	<u>Fiji Islands</u> 19.70 S 178.43 W H = 04 11 49.2 h = 546 km MAG=4.1 D = 148.11 Az = 347.8 (USCGS) PKHKPV:1.0s 11.8nm
15.	eP	A 21 45 38	<u>North Atlantic Ridge</u> 14.52 N 45.08 W H = 21 35 46.9 h = normal MAG=4.7 D = 57.94 Az = 38.9 (USCGS) PV:2.0s 25.6nm MPV=4.9
16.	eP	A 05 01 23	<u>Mindanao, Philippine Islands</u> 5.28 N 126.81 E H = 04 47 37.2 h = 75 km MAG=5.4 D = 101.50 Az = 324.0 (USCGS) PV:1.4s 23.3nm MPV=5.6

July 1969

Moxa

Day	Phase	h m s	Remarks
16.	+eP1	A 08 28 21.5	<u>Off East Coast of Kamchatka</u>
	iP2	A 28 23	52.20 N 158.98 E
	ipP	A 28 38	H = 08 16 53.3 h = 69 km MAG=5.8
	eiS	C 37 45	D = 73.87 Az = 339.1 (USCGS)
	LmH	E 59.1	P1V:0.8s 15.4nm MP1V=5.0
	LmV	B 09 06.2	P2V:1.1s 317.0nm MP2V=6.1 LmH:21s 11.0/um LmV:15s 4.6/um
16.	ePKIKP	A 12 58 17	<u>New Ireland</u> 4.71 S 153.14 E
	epPKIKP	A 58 33	H = 12 39 26.2 h = 85 km MAG=4.6
	ePP	A 13 00 05	D = 124.03 Az = 331.4 (USCGS)
	LmH	E 56.0	LmH:19s 0.8/um
	LmV	B 56.3	LmV:20s 0.8/um
16.	eP	A 15 07 18	<u>Southern Nevada</u> 37.14 N 116.09 W H = 14 55 00.0 h = 0 km MAG=5.6 D = 81.23 Az = 30.6 (USCGS) PV:1.2s 32.5nm MPV=5.2 Nevada test site "Hutch" (USAEC)
16.	eP	A 22 11 56	<u>South Atlantic Ridge</u> 32.22 S 13.13 W
	LmH	E 47.3	H = 21 59 20.0 h = normal MAG=4.9
	LmV	B 49.3	D = 85.36 Az = 15.5 (USCGS)
17.	eP	A 04 15 32	<u>Andreanof Islands, Aleutian Is.</u> 51.42 N 179.86 W H = 04 03 36.5 h = 34 km MAG=4.9 D = 77.85 Az = 352.6 (USCGS) PV:0.8s 15.4nm MPV=5.2
17.	ePKP	A 09 37 40	<u>Fiji Islands</u> 20.94 S 178.19 W
	e	A 37 47.5	H = 09 18 17.8 h = 190 km MAG=4.5 D = 149.36 Az = 347.7 (USCGS) PKPV:0.8s 11.5nm
17.	ePg	A 14 45 29.5	<u>Adelebsen/GFR, explosion</u>
	iSg	A 45 49.5	51°36.50'N 09°44.80'E

142

July 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
17.	e	A 14 45 50.5	H = 14 45 00.36 yield 6.4 to (Hannover) D = ca. 1.5
17.	eP	A 21 02 13	<u>Central Alaska</u> 64.08 N 147.60 W H = 20 51 37.5 h = 31 km MAG=4.9 D = 64.47 Az = 14.5 (USCGS)
18.	eP	A 00 09 05	<u>North Atlantic Ridge</u> 29.71 N 42.93 W
	e	A 09 10	H = 00 00 47.4 h = normal MAG=5.0
	e	A 09 14	D = 45.45 Az = 46.7 (USCGS)
	e	A 09 18	LmH:21s 0.4/um MLH=4.3
	LmH	E 24.6	LmV:21s 0.4/um MLV=4.4
	LmV	B 24.6	
18.	+iP	A 05 36 05	<u>Northeastern China</u> 38.30 N 119.45 E
	Pm	A 36 19	H = 05 24 48.0 h = normal MAG=6.2
	eiP	C 37 05	D = 71.18 Az = 320.2 (USCGS)
	eiPP	C 38 48	PmV(A):2.0s 726.0nm MPV(A)=6.5
	eiPPP	C 40 32	PV(C):18s 6.3/um MPV(C)=6.4
	eiPPPP	C 41 16	SH(B):35s 2340/um MSH=8.8
	iS	BC 45 24	LmH(Ma):19s 555.0/um MLH(Ma)=7.8
	eiSS	C 49 48	LmV:17s 101.0/um MLV=7.2
	LmH	Ma 06 05.0	Ma=Mainka
	LmV	B 11.0	
18.	eP	A 13 20 07	<u>Mongolia</u> 43.32 N 97.05 E H = 13 10 32.0 h = normal MAG=4.6 D = 55.66 Az = 309.8 (USCGS)
18.	e	A 13 45 16	<u>Northeastern China</u> 38.10 N 119.44 E
	LmH	E 14 13.8	H = 13 33 48.4 h = 32 km MAG=5.0
	LmV	B 19.7	D = 71.33 Az = 320.2 (USCGS) LmH:18s 3.3/um MLH=5.6 LmV:14s 1.2/um MLV=5.4
18.	ePg	A 14 06 02	<u>Eschenlohe/GFR, explosion</u>
	eSg	A 06 40	47°37.91'N 11°08.80'E H = 14 05 00.6 yield 12.8 to (ASFA) D = ca 3.0

143



July 1969

Moxa

Day	Phase	h m s	Remarks
18.	ePg	A 16 05 27	<u>Fransrode, Hoher Meißner/GFR</u> , explosion 51°13.93'N 09°51.59'E H = 16 05 02.97 yield 22.0 to (Hannover) D = ca. 1.2
	iPg	A 05 28	
	i	A 05 29	
	iSg	A 05 45	
18.	eP	A 23 30 32	<u>Bolivia</u> 18.24 S 63.31 W H = 23 17 10.6 h = 19 km MAG=5.6 D = 94.74 Az = 38.1 (USCGS) PV:1.8s 20.3nm MPV=5.2 LmH:21s 0.7/um MLH=5.1 LmV:20s 0.8/um MLV=5.2
	eS	C 42 00	
	ePS	C 43 12	
	eSS	C 48.4	
	LmH	B 24 10.5	
	LmV	B 10.5	
19.	eP	A 02 03 24	<u>Northeastern China</u> 38.88 N 119.37 E H = 01 52 09.4 h = normal MAG=4.9 D = 70.70 Az = 320.0 (USCGS) LmH:19.5s 1.1/um MLH=5.1
	LmH	B 32.0	
19.	ePKP	A 04 54 58.5	<u>Loyalty Islands</u> 20.57 S 168.60 E H = 04 35 27.0 h = 17 km D = 144.93 Az = 334.3 (USCGS)
	e	A 55 10.5	
19.	+eiP	A 05 08 32	<u>Near Coast of Peru</u> 17.25 S 72.52 W H = 04 54 54.1 h = 54 km MAG=5.9 D = 99.51 Az = 40.0 (USCGS) PV:1.8s 121.5nm MPV=6.4 LmH:22.5s 16.6/um MLH=6.5 LmV:22s 22.3/um MLV=6.8
	+ipP	A 08 48	
	e	A 08 59	
	e	A 09 08.5	
	ePP	A 12 32	
	eiSKS	B 19 12	
	iSKKS	C 19 40	
	eS	B 20 02	
	e	B 21 20	
	eiPS	C 21 38	
	LmH	B 50.3	
	LmV	B 50.4	
19.	ePKIKP	A 05 30 16.5	<u>Fiji Islands</u> 21.51 S 179.55 W H = 05 11 43.4 h = 659 km MAG=5.0 D = 149.62 Az = 345.9 (USCGS) PKHKPV:1.1s 84.7nm
	iPKHKP	A 30 22	
	iPKP2	A 30 30	
	pPKP	A 32 45	

144

July 1969

Moxa

Day	Phase	h m s	Remarks
19.	ePKHKP	A 18 16 27	<u>Kermadec Islands</u> 27.46 S 176.58 W H = 17 56 25.0 h = normal MAG=5.0 D = 156.02 Az = 347.1 (USCGS) PKP2V:1.0s 15.7nm
	ePKP2	A 16 43	
20.	eP	A 04 42 40	<u>Southern Sinkiang Prov. China</u> 39.81 N 77.80 E H = 04 34 14.9 h = normal MAG=5.0 D = 46.38 Az = 306.4 (USCGS) LmV:16s 0.9/um MLV=4.9 LmH:16s 0.8/um MLH=4.7
	eSS	C 52 55	
	LmV	B 05 03.5	
	LmH	B 03.6	
20.	eP	A 07 15 39	<u>Afghanistan-USSR Border Region</u> 36.48 N 71.08 E H = 07 07 51.6 h = 220 km MAG=4.9 D = 44.18 Az = 308.1 (USCGS) PV:1.5s 20.1nm MPV=4.3
	LmH	B 32.0	
20.	e	A 10 56 26	<u>Central Mid-Atlantic Ridge</u> 7.24 N 34.26 W H = 10 46 11.7 h = normal MAG=4.3 D = 57.56 Az = 32.8 (USCGS) LmH:20s 0.5/um MLH=4.6 LmV:22s 0.8/um MLV=4.8
	eS	C 11 04 00	
	LmH	B 12.0	
20.	LmV	B 17.0	<u>Ionian Sea</u> 37.95 N 20.21 E H = 15 51 54.1 h = 19 km MAG=4.7 D = 14.10 Az = 337.0 (USCGS) LmH:12s 0.5/um MLH=3.8 LmV:13s 0.7/um
	eP	A 15 55 14	
	LmH	B 16 01.8	
20.	LmV	B 01.9	<u>Fiji Islands</u> 19.24 S 176.42 W H = 19 49 42.0 h = 20 km MAG=5.2 D = 148.02 Az = 350.3 (USCGS) PKPV:1.5s 30.1nm
	ePKP	A 20 09 28.5	
	e	A 09 32.5	
20.	e	A 09 41	Probably <u>Northeastern China</u> (USCGS) LmH:18s 1.2/um LmV:16s 0.7/um
	LmH	B 24 34.7	
	LmV	B 40.5	

145

July 1969

Moxa

Day	Phase	h m s	Remarks
21.	ePKP e	A 02 41 49 A 41 59.5	<u>Fiji Islands</u> 19.25 S 176.50 W H = 02 22 06.4 h = normal MAG=4.8 D = 148.01 Az = 350.2 (USCGS)
21.	eP e e ePoP e e LmV	A 07 19 39 A 19 45 A 19 50 A 20 47 A 20 57 A 21 00 B 39.4	<u>North Atlantic Ridge</u> 21.04 N 45.74 W H = 07 10 18.3 h = 22 km MAG=4.7 D = 53.41 Az = 41.9 (USCGS) LmV:19s 0.4/um MLV=4.5
21.	eP e ePP eS eSSS LmH LmV	A 17 45 42 B 45 43 C 47 03 C 51 30 C 54 00 B 59.4 B 59.4	<u>North Atlantic Ridge</u> 35.25 N 35.94 W H = 17 38 28.8 h = normal MAG=4.9 D = 37.38 Az = 50.7 (USCGS) PV:1.4s 16.3nm MPV=4.6 LmH:12.5s 1.7/um MLH=5.0 LmV:15s 2.2/um MLV=5.2
21.	eP e LmH LmV	A 19 56 25 A 56 35 B 20 36.3 B 36.4	<u>Off East Coast of Honshu, Japan</u> 39.42 N 143.03 E H = 19 44 13.5 h = normal MAG=5.0 D = 80.71 Az = 331.1 (USCGS) PV:1.0s 17.5nm MPV=5.0 LmH:13s 0.4/um MLH=4.9 LmV:14s 0.5/um MLV=5.0
21.	eP e ePP LmV	A 22 20 27.5 A 24 27 A 24 46 B 23 13.3	<u>Celebes Sea</u> 2.90 N 124.75 E H = 22 06 56.9 h = 220 km MAG=5.6 D = 102.18 Az = 323.2 (USCGS) PV:1.3s 21.8nm MPV=5.5 PPV:1.9s 83.2nm LmV:14s 0.2/um
22.	ePKIKP iPKHKP	A 11 11 16.5 A 11 19	<u>Fiji Islands</u> 18.29 S 177.75 W H = 10 52 40.8 h = 576 km MAG=4.5 D = 146.86 Az = 349.1 (USCGS) PKIKPV:1.0s 19.7nm

July 1969

Moxa

Day	Phase	h m s	Remarks
22.	ePKP iX LmH LmV	A 14 08 16 A 08 18.5 C 15 05.0 C 05.0	<u>Tonga Islands</u> 18.13 S 172.49 W H = 13 48 36.5 h = 30 km MAG=5.4 D = 147.39 Az = 355.1 (USCGS) XV:1.4s 51.1nm
22.	ePKIKP ePP eipPP	A 17 33 18 A 36 00 A 36 40	<u>Santa Cruz Islands</u> 11.84 S 166.48 E H = 17 14 13.0 h = 144 km MAG=5.4 D = 136.18 Az = 337.0 (USCGS) pPPV:1.0s 17.7nm
22.	ePKIKP e e LmH LmV	A 20 15 09 A 15 16 A 16 09 C 21 15.0 C 17.2	<u>South of Fiji Islands</u> 26.08 S 177.51 W H = 19 55 37.03 h = 180 km MAG=5.1 D = 154.49 Az = 346.4 (USCGS)
22.	+iPKIKP ePKP2 e	A 23 41 05 A 41 11 A 41 18	<u>Fiji Islands</u> 18.91 S 178.68 W H = 23 22 26.7 h = 562 km MAG=4.6 D = 147.29 Az = 347.8 (USCGS) PKIKPV:1.0s 21.7nm
23.	ePKP e	A 00 24 54.5 A 25 10	<u>New Hebrides Islands</u> 19.17 S 169.77 E H = 00 05 23.3 h = normal MAG=4.8 D = 144.13 Az = 336.2 (USCGS)
23.	+iP ePn e	A 02 54 47.0 A 56 19 A 57 07	<u>Eastern Kazakh SSR</u> 49.87 N 78.32 E H = 02 46 58.1 h = 0 km MAG=5.5 D = 41.33 Az = 297.7 (USCGS) PV:0.7s 134.0nm MPV=5.6 Probably underground explosion
23.	ePKIKP eiPKHKP ePKP2 epPKP	A 08 20 37 A 20 43 A 20 54.5 A 22 53	<u>South of Fiji Islands</u> 23.72 S 179.21 E H = 08 01 50.6 h = 545 km MAG=5.0 D = 151.44 Az = 343.4 (USCGS) PKHKPV:1.2s 61.0nm PKP2V:1.4s 37.2nm

July 1969

Moxa

Day	Phase	h m s	Remarks
23.	+eP	A 13 26 50.5	<u>Near East Coast of Honshu, Japan</u> 37.32 N 141.50 E D = 81.95 Az = 330.4 (USCGS) PV:1.4s 65.0nm MPV=5.6 LmV:16s 1.0/um MLV=5.3 LmH:16s 1.0/um MLH=5.2
	epP	A 27 04	
	LmV	B 14 05.2	
	LmH	B 05.3	
24.	eP	A 01 37 59	<u>Kurile Islands</u> 45.56 N 152.11 E H = 01 26 01.0 h = 30 km MAG=4.7 D = 78.25 Az = 335.6 (USCGS) PV:1.0s 13.6nm MPV=5.0
	e	A 38 11	
24.	eP	A 03 12 56	<u>Peru</u> 11.85 S 75.13 W H = 02 59 21.0 h = 1 km MAG=5.9 D = 97.01 Az = 39.8 (USCGS) PV:2.0s 68.5nm MPV=5.9 LmH:19s 4.1/um MLH=5.9 LmV:17s 3.2/um MLV=5.9
	ePP	A 16 53	
	eSKS	C 23 36	
	e	B 23 41	
	eS	C 24 24	
	ePS	C 25 40	
	LmH	B 54.0	
	LmV	B 57.5	
24.	e(P)	A 05 17 33	<u>Molucca Passage</u> 1.62 N 126.50 E H = 05 03 26.7 h = 41 km MAG=5.4 D = 104.25 Az = 323.4 (USCGS)
24.	ePP	B 12 59 16	<u>Prince Edward Island Region</u> 45.44 S 34.98 E H = 12 41 40.2 h = normal MAG=5.7 (USCGS) D = 98.0 LmH:18s 4.8/um MLH=6.0 LmV:16s 3.9/um MLV=6.0
	ePPP	B 13 01 30	
	ePPPP	B 03 00	
	eSKS	C 05 52	
	ePS	C 08 05	
	eSS	C 13 18	
	LmH	B 36.5	
	LmV	B 40.0	
24.	ePKP	A 14 42 18	<u>Tonga Islands</u> 15.31 S 175.19 W H = 14 23 18.0 h = 310 km MAG=4.7 D = 144.32 Az = 352.6 (USCGS)

July 1969

Moxa

Day	Phase	h m s	Remarks
24.	eP	A 16 30 51	<u>Kurile Islands</u> 49.48 N 155.66 E H = 16 19 07.4 h = normal MAG=5.3 D = 75.62 Az = 337.3 (USCGS) PV:1.0s 15.8nm MPV=5.1
24.	eP	A 23 25 36	<u>Crete</u> 34.93 N 26.01 E H = 23 21 17.2 h = 41 km MAG=4.3 D = 18.87 Az = 330.7 (USCGS)
	e	A 25 41.5	
	e	C 29 20	
24.	e	C 29 32	
	e	C 29 32	
25.	eP	A 01 11 55	<u>Bonin Islands</u> 28.20 N 139.80 E H = 00 59 47.7 h = 462 km MAG=4.2 D = 89.14 Az = 330.0 (USCGS)
25.	eP	A 06 19 30	<u>Salta Province Argentina</u> 25.55 S 63.31 W H = 06 06 42.4 h = 579 km MAG=5.5 D = 100.44 Az = 38.7 (USCGS) PV:1.6s 38.5nm
	epP	C 21 31	
	esP	C 22 35	
	iPP	A 23 40	
	e	A 23 50	
	ePPP	C 25 32	
	isPPP	E 28 45	
	isKS	C 29 15.5	
	eSKKS	C 29 50	
	eSP	E 31 45	
	ePS	C 33 00	
	esS	C 34 05	
	esSP	E 35 32	
	e	A 36 09.5	
esSS	C 40 50		
e	C 41 10		
eSa	C 47 30		
25.	eP	A 09 18 32	<u>Off East Coast of Kamchatka</u> 53.67 N 161.93 E H = 09 07 03.2 h = normal MAG=4.3 D = 73.10 Az = 340.8 (USCGS)

July 1969

Moxa

Day	Phase	h m s	Remarks
25.	ePn	A 11 06 48	<u>Peißenberg/Germany</u> 47.50 N 11.06 E H = 11 06 06 (FUR) D = 2.8
	ePg	A 06 58	
	eSn	A 07 20	
	eSg	A 07 34	
	LmH	A 09 05	
	LmV	A 09 19	
25.	eP	A 13 06 14	<u>Fox Islands, Aleutian Is.</u> 53.30 N 167.01 W H = 12 54 27.6 h = 42 km MAG=5.0 D = 76.42 Az = 0.9 (USCGS) PV:1.4s 23.2nm MPV=5.1 LmH:20s 2.3/um MLH=5.2 LmV:17s 1.0/um MLV=5.2
	eS	C 14 55	
	e	C 21.3	
	LmH	B 43.7	
	LmV	B 44.7	
25.	eP	A 13 10 45	<u>Philippine Islands</u> 18.76 N 119.66 E H = 12 58 01.8 h = 30 km MAG=4.9 D = 86.58 Az = 322.7 (USCGS)
25.	eP1	A 13 48 09	<u>Molucca Passage</u> 2.57 N 126.62 E H = 13 34 09.8 h = normal MAG=5.6 D = 103.56 Az = 323.6 (USCGS) P1V:2.0s 34.2nm MPV=5.8 P2V:1.2s 18.3nm MPV=5.7
	eP2	A 48 12.5	
	ePP	A 52 27	
25.	LmH	B 14 33.0	Probably <u>Molucca Passage</u> (USCGS) LmH:20s 0.8/um LmV:26s 1.6/um
	LmV	B 37.0	
25.	eP	A 21 40 21.5	<u>North Atlantic Ocean</u> 12.40 N 40.75 W H = 21 30 33.1 h = 9 km MAG=4.9 D = 57.02 Az = 36.9 (USCGS) PV:1.0s 13.8nm MPV=4.9
25.	eiP	A 23 01 48.5	<u>Eastern China</u> 21.55 N 111.93 E H = 22 49 41.3 h = normal MAG=5.4 (USCGS) D = 79.8 PV:2.2s 316.0nm MPV=5.9
	eS	C 11 50	
	e	C 11 55	
	eSS	C 17 08	

150

July 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
25.	LmH	B 38.5	LmH:14.5s 9.6/um MLH=6.3 LmV:16s 9.3/um MLV=6.2
	LmV	B 40.5	
25.	+eP	A 23 10 34	<u>Near East Coast of Kamchatka</u> 53.81 160.39 E H = 22 59 08.3 h = normal MAG=4.8 D = 72.66 Az = 339.8 (USCGS) PV:1.1s 20.2nm MPV=5.2
26.	epP	A 07 33 51	<u>Near Coast of Nicaragua</u> 12.63 N 87.80 W H = 07 21 00.2 h = 84 km MAG=4.8 (USCGS) D = 86.2
26.	eP	A 12 28 52	<u>North Atlantic Ocean</u> 43.67 N 14.60 W H = 12 24 29.5 h = normal MAG=4.8 D = 19.08 Az = 59.4 (USCGS) PV:2.4s 82.7nm MPV=4.5 LmV:16s 0.6/um MLV=4.2 LmH:16s 0.6/um MLH=4.0
	e	A 28 54	
	eS	C 32 30	
	LmV	B 36.6	
	LmH	B 36.7	
27.	iPaP	A 02 33 56.0	<u>New Hebrides Islands</u> 19.41 S 168.82 E H = 02 14 28.1 h = 70 km MAG=5.4 (USCGS) D = 143.9 PKPV:1.3s 144.0nm
27.	ePKIKP	A 09 08 14	<u>Fiji Islands</u> 17.62 S 178.29 W H = 08 49 37.6 h = 552 km MAG=4.0 D = 146.11 Az = 348.7 (USCGS) PKIKPV:1.6s 15.4nm
	ePKHKP	A 08 16.5	
	ePKP2	A 08 19.5	
27.	eP	A 17 22 13	<u>East of Crete</u> (UPP) PV:1.3s 17.5nm
	e	A 22 26.5	
27.	eP	A 19 38 20	<u>Kodiak Islands</u> 57.61 N 153.64 W H = 19 27 03.9 h = 51 km MAG=4.6 D = 71.43 Az = 9.8 (USCGS) PV:1.3s 15.3nm MPV=5.0
	epP	A 38 32.5	

151

July 1969

Moxa

Day	Phase	h m s	Remarks
27.	eP1 AB	21 32 42.5	<u>Gulf of Alaska</u> 59.41 N 145.32 W
	iP2 A	32 44.5	H = 21 21 40.7 h = normal MAG=5.3
	ePP C	35 16	D = 68.71 Az = 15.5 (USCGS)
	ePPP C	37 06	P1V(A):1.2s 36.2nm MP1V(A)=5.6
	eS C	41 48	P1V(B):10s 1.0 $\mu$ m MP1V(B)=6.0
	eSKS C	42 40	P2V(A):1.2s 77.1nm MP2V(A)=5.8
	LmH C	22 09.6	LmH(C):14s 3.4 $\mu$ m MLH(C)=5.7
LmV C	09.6	LmV(C):14s 5.3 $\mu$ m MLV(C)=6.0	
27.	eP A	22 39 11	<u>Taiwan</u> 24.87 N 122.53 E H = 22 26 54.2 h = 105 km MAG=5.4 D = 83.34 Az = 323.5 (USCGS) PV:1.5s 25.1nm MPV=4.8
28.	eP1 A	06 41 14.5	<u>Kodiak Island</u> 57.46 N 153.94 W
	+iP2 A	41 16.5	H = 06 29 53.9 h = 28 km MAG=5.3
	+iP3 A	41 26	D = 71.60 Az = 9.6 (USCGS) P1V:1.4s 28.0nm MP1V=5.2 P2V:0.8s 30.8nm MP2V=5.5 P3V:1.0s 43.3nm MP3V=5.5
28.	eP1 A	13 15 46	<u>South east of Shikoku, Japan</u>
	eP2 A	15 56	30.73 N 132.46 E
	e A	18 09	H = 13 03 17.6 h = 24 km MAG=5.6
	eS C	26 06	D = 83.63 Az = 326.6 (USCGS)
	LmH E	50.5	P1V:1.4s 107.0nm MP1V=5.9
	LmV E	57.5	P2V:1.4s 88.4nm MP2V=5.8 LmH:23s 2.3 $\mu$ m MLH=5.5 LmV:17s 2.1 $\mu$ m MLV=5.6
28.	ePKHKP A	14 23 33	<u>Fiji Islands</u> 21.84 S 179.64 W H = 14 04 48.8 h = 610 km MAG=4.5 D = 149.92 Az = 345.6 (USCGS)
29.	eP A	00 51 28	<u>Virgin Islands</u> 19.94 N 64.15 W H = 00 40 42.5 h = 32 km MAG=5.1 (USCGS) D = 65.8

July 1969

Moxa

Day	Phase	h m s	Remarks
29.	ePKIKP A	02 14 12	<u>Near North Coast of New Guinea</u> 3.38 S 144.84 E H = 01 55 20.4 h = 6 km MAG=5.5 (USCGS) D = 118.7
	ePKIHP A	06 43 26	<u>New Hebrides Islands</u> 14.81 S 167.23 E
		A	43 30
A		43 38	D = 139.17 Az = 336.3 (USCGS)
29.	e A	43 50	
	e A	43 57	
	eSn A	16 36 47.5	<u>Germany</u> 49.7 N 7.5 E
e A	36 56.5	H = 16 35 28 (BCIS)	
	37 00.5	D = 2.8	
29.	ePg A	23 57 21.5	<u>Germany</u> 48.2 N 9.1 E
	e A	57 53.5	H = 23 56 21 (BCIS)
	eiSg A	57 54.5	D = 2.9
ei A	57 55.5		
	30.	eP A	03 37 02
e A		37 10	H = 03 23 37.6 h = 20 km MAG=5.3
ePP A		40 53	D = 95.50 Az = 331.2 (USCGS)
LmH B	04 23.5	PPV:1.6s 44.0nm MPFV=5.6	
LmV B	23.5	LmH:16s 0.4 $\mu$ m MLH=5.0 LmV:18s 0.3 $\mu$ m MLV=4.8	
30.	eP A	04 31 44	<u>Bonin Islands Region</u> 28.49 N 142.61 E
	ePP A	35 16	H = 04 18 44.5 h = normal MAG=5.1 (USCGS)
	LmH B	05 11.9	D = 90.0
LmV B	19.5	LmH:14s 0.5 $\mu$ m MLH=5.1 LmV:14s 0.5 $\mu$ m MLV=5.1	
30.	eP A	17 21 13	<u>Komandorsky Islands</u> 55.48 N 164.04 E
	e A	21 28	H = 17 09 50.3 h = normal MAG=4.5 D = 71.77 Az = 341.9 (USCGS)

July 1969

Moxa

Day	Phase	h m s	Remarks
30.	ePKHKP e	A A 24 12 12.5 12 21	<u>South of Fiji Islands</u> 23.63 S 176.97 W H = 23 52 31.7 h = 137 km MAG=4.9 D = 152.22 Az = 348.2 (USCGS)
31.	eP	A 05 18 09	<u>South Indian Ocean</u> 27.55 S 66.17 E H = 05 05 04.3 h = normal MAG=5.3 D = 91.55 Az = 328.7 (USCGS) PV:1.6s 27.5nm MPV=5.3
31.	eP e i LmH LmV	A A A E B 11 34 49.5 35 07 35 11 12 12.5 14.5	<u>Fox Islands, Aleutian Is.</u> 53.00 N 170.11 W H = 11 23 01.2 h = 37 km MAG=5.3 D = 76.72 Az = 358.9 (USCGS) PV:1.4s 32.6nm MPV=5.3 LmH:18.5s 1.6/um MLH=5.4 LmV:18s 1.0/um MLV=5.2
31.	eP	A 12 17 16.5	<u>Central Alaska</u> 64.86 N 151.17 W H = 12 06 44.5 h = normal MAG=4.4 D = 64.06 Az = 12.1 (USCGS) PV:1.0s 19.7nm MPV=5.3
31.	e	A 19 09 44	<u>Southeast of Shikoku, Japan</u> 30.64 N 132.81 E H = 18 57 08.7 h = normal MAG=4.5 D = 83.86 Az = 326.8 (USCGS) PV:1.4s 9.3nm

August 1969

Moxa

Day	Phase	h m s	Remarks
1.	ePKIKP iPKHKP iX iPKP2 e	A A A A A 12 25 01 25 07.8 25 14 25 18 25 54	<u>South of Fiji Islands</u> 23.37 S 177.46 W H = 12 05 34.6 h = 189 km MAG=5.0 D = 151.87 Az = 347.7 (USCGS) PKHKPV:1.2s 48.8nm XV:1.2s 65.0nm
1.	iP i iX eS e e ePS ei e e eSS eSSS LmH LmV	AB A A C C E C C C C C C C E B C C C C E B 33.3 33.5	<u>Kurile Islands</u> 45.58 N 150.88 E H = 23 43 44.9 h = 38 km MAG=5.6 D = 77.87 Az = 334.9 (USCGS) P1V(A):1.5s 302.0nm MP1V=6.2 PV(E):11s 1.4/um MPV=6.0 XV(A):1.8s 243.0nm LmH:19s 15.5/um MLH=6.4 LmV:19s 13.0/um MLV=6.3
2.	iP i LmH LmV	A A E B 00 46 16 46 23.5 01 24.2 24.2	<u>Kurile Islands</u> 45.30 N 151.12 E H = 00 34 17.0 h = 21 km MAG=5.3 D = 78.20 Az = 335.0 (USCGS) PV:1.3s 74.0nm MPV=5.6 LmH:19s 3.5/um MLH=5.7 LmV:19s 3.1/um MLV=5.7
2.	eP	A 01 25 33	<u>Kurile Islands</u> 45.21 N 150.87 E H = 01 13 34.8 h = normal MAG=4.6 D = 78.20 Az = 334.9 (USCGS)
2.	eP	A 02 52 03	<u>Kurile Islands</u> 45.22 N 150.88 E H = 02 40 04.9 h = normal MAG=4.8 D = 78.19 Az = 334.9 (USCGS) PV:1.0s 11.6nm MPV=5.1

August 1969

Moxa

Day	Phase	h m s	Remarks
2.	ePKIKP LmH LmV	A E B	04 49(27) 05 41.4 48.1
			<u>East New Guinea Region</u> 6.5 S 146.9 E H = 04 30 29.2 h = 17 km MAG=5.3 (USCGS) D = 122.5 LmH:16s 0.5/um MLH=5.2 LmV:16s 0.6/um MLV=5.3
2.	eP	A	06 16 07
			<u>Kurile Islands</u> 45.17 N 150.94 E H = 06 04 08.5 h = normal MAG=4.7 D = 78.26 Az = 334.9 (USCGS) PV:1.4s 23.2nm MPV=5.1
2.	eP	A	10 29 51
			<u>Kurile Islands</u> 45.27 N 151.04 E H = 10 17 54.1 h = 38 km MAG=4.9 D = 78.20 Az = 335.0 (USCGS) PV:1.2s 24.4nm MPV=5.2
2.	eP	A	17 50 37
			<u>Near East Coast of Kamchatka</u> 56.22 N 162.40 E H = 17 39 21.9 h = normal MAG=4.7 D = 70.78 Az = 340.6 (USCGS) PV:1.2s 16.3nm MPV=5.0
3.	ePKIKP1 eiPKIKP2 ePP ePPP eSKS e(SKSP) eSFP eSS LmH LmV	A A A C E E C C B E	00 41 24 41 25.5 43 08 45 42 48 23 52 50 54 18 59 45 01 38.7 38.9
			<u>New Ireland Region</u> 4.24 S 153.02 E H = 00 22 32.0 h = 65 km MAG=5.3 D = 123.56 Az = 331.5 (USCGS) PKIKP1V:1.0s 17.7nm PKIKP2V:1.1s 48.4nm PPV:1.5s 45.2nm MPPV=5.8 LmH:18.5s 1.7/um LmV:19s 1.3/um
3.	el i	A E	04 32 04 32 36
			<u>Southwestern Ryukyu Islands</u> 24.87 N 123.16 E H = 04 19 41.4 h = 62 km MAG=5.3 D = 83.68 Az = 323.4 (USCGS) PV:1.4s 41.8nm MPV=5.5

August 1969

Moxa

Day	Phase	h m s	Remarks
3.	+iP ipP e LmH LmV	A A A E E	08 00 13 00 25.5 00 35 34.2 38.3
			<u>Kurile Islands</u> 45.35 N 151.77 E H = 07 48 11.4 h = 13 km MAG=5.3 D = 78.34 Az = 335.4 (USCGS) PV:1.4s 97.6nm MPV=5.7 pPV:1.3s 135.7nm LmH:17.5s 1.7/um MLH=5.4 LmV:18s 0.8/um MLV=5.1
3.	eP	A	23 57 05
			<u>United Arab Republic</u> 27.55 N 33.91 E H = 23 51 10.2 h = normal MAG=4.5 D = 28.62 Az = 329.7 (USCGS)
4.	ePKHKP ePKP2	A A	01 37 38 37 49.5
			<u>South of Fiji Islands</u> 23.57 S 179.72 E H = 01 18 49.4 h = 590 km MAG=4.2 D = 151.43 Az = 344.1 (USCGS) PKHKP:1.2s 8.1nm
4.	ePKHKP	A	03 15 38
			<u>South of Fiji Islands</u> 23.93 S 177.36 W H = 02 56 11.9 h = 263 km MAG=3.9 D = 152.44 Az = 347.6 (USCGS)
4.	eP eS ePS eSS LmH LmV	A C C C B E	10 35 23.5 45 14 46 15 50 40 11 14.0 19.0
			<u>Andreanof Islands, Aleutian Is.</u> 51.40 N 179.56 W H = 10 23 28.9 h = 41 km MAG=5.3 D = 77.89 Az = 352.8 (USCGS) PV:1.3s 69.9nm MPV=5.6 LmH:18.5s 1.5/um MLH=5.3 LmV:16s 1.1/um MLV=5.3
4.	eP epP esP iPKIKP e ePP epPP e(Pa) e(Pa) esPP	A A A A E C E C E C	17 32 51 35 17 36 07 36 51 37 18 37 35 39 20 39 29 39 40 40 14
			<u>Fanda Sea</u> 5.65 S 125.35 E H = 17 19 19.6 h = 521 km MAG=6.2 D = 109.29 Az = 321.9 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
4.	eSKS C	17 42 35	
	eSKKS C	43 35	
	eSdiff C	44 12	
	iSdiff E	44 14	
	eSP C	45 51	
	iSPP E	47 06	
	e(sS) E	47 50	
	esSP E	49 28	
	eSS E	52 16	
	e(sSS) E	56 19	
4.	eSKS C	22 15 05	<u>Near Coast of Northern Chile</u>
	ePS C	17 55	26.9 S 70.9 W
	LmV E	54.0	H = 21 50 02.3 h = normal MAG=5.3
	LmH E	55.3	D = 105.8
			LmV:18s 0.5/um MLV=5.2
			LmH:18s 0.7/um MLH=5.3
5.	eP1 AB	02 27 12	<u>Molucca Passage</u> 1.30 N 126.20 E
	eP2 A	27 20	H = 02 13 09.6 h = 34 km MAG=6.1
	eiP3 A	27 31	D = 104.33 Az = 323.3 (USCGS)
	e E	30 30	P1V(A):2.0s 60.0nm MP1V=6.1
	ePP E	31 27	PV(E):16s 3.5/um MPV = 7.0
	ei C	31 40	P3V(A):1.1s 141.0nm MP3V=6.7
	eISKKS C	37 50	LmH:19.5s 50.5/um MLH=7.1
	eS E	39 08	LmV:18s 58.2/um MLV=7.2
	eiSP C	40 21	
	iPS C	40 40	
	iPS E	40 44	
	e A	43 29	
	iSS C	46 27	
	LmH E	03 15.7	
	LmV E	19.8	
5.	eS E	14 29 15	<u>Molucca Passage</u> 1.29 N 126.43 E
	eSS F	36 40	H = 13 03 23.3 h = 18 km MAG=5.2
			D = 104.47 Az = 323.4 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
5.	ePKIKP AB	16 51 19	<u>New Ireland Region</u> 5.25 S 153.78 E
	e A	51 35	H = 16 32 25.8 h = 69 km MAG=5.4
	e A	51 51	D = 124.80 Az = 331.6 (USCGS)
	ePP E	53 09	PKIKPV(E):7.0s 0.5/um
	ePS E	17 03 14	PKIKPV(A):1.9s 45.5nm
	e E	04 57	PPV(E):9.0s 1.5/um MPPV=6.5
	e E	08 24	LmH:21s 3.9/um
	eSS E	10 00	LmV:19s 3.1/um
	LmH E	38.1	
	LmV E	50.2	
5.	+eiPKP A	18 03 32	<u>New Hebrides Islands</u> 20.62 S 169.41 E
	+eipPKP A	03 44	H = 17 44 01.1 h = 66 km MAG=4.7
			D = 145.30 Az = 335.0 (USCGS)
			PKPV:1.4s 74.5nm
			pPKPV:1.2s 48.8nm
5.	eP A	18 46 37	<u>Honshu, Japan</u> 37.53 N 140.56 E
	epP A	47 05	H = 18 34 33.3 h = 130 km MAG=5.0
			D = 81.40 Az = 329.9 (USCGS)
			h = 113 km
6.	eP A	00 49 34	<u>Southern Alaska</u> 61.39 N 150.74 W
	e A	49 41	H = 00 38 42.8 h = 53 km MAG=4.8
	e A	49 52	D = 67.43 Az = 12.1 (USCGS)
			PV:1.0s 7.9nm MPV=4.9
6.	e(pP) A	08 53 10	<u>South of Honshu, Japan</u> 32.50 N 140.65 E
			H = 08 40 32.2 h = 67 km MAG=4.9
			D = 85.78 Az = 330.3 (USCGS)
			pPV:1.2s 10.2nm
6.	e(PINKP)A	15 17 25	<u>South Sandwich-Islands</u> 57.97 S 25.36 W
			H = 14 59 23.8 h = 65 km MAG=4.6
			D = 112.42 Az = 24.5 (USCGS)



August 1969

Moxa

Day	Phase	h m s	Remarks
6.	eP1	A 15 51 53	<u>North Atlantic Ridge</u> 10.83 N 43.23 W
	eP2	A 51 56.5	H = 15 41 50.4 h = normal MAG=5.2
	ePP	C 54 05	D = 59.73 Az = 37.1 (USCGS)
	eS	C 16 00 05	P1V:1.5s 25.1nm MP1V=5.0
	eSS	C 03.8	P2V:1.0s 51.2nm MP2V=5.5
	eSSS	C 06 55	LmH:17s 1.1/um MLH=5.1
	LmH	B 14.3	LmV:20s 1.3/um MLV=5.1
	LmV	B 14.7	
7.	e	A 02 09 18	<u>Solomon Islands</u> 5.27 S 154.06 E
	ePP	C 10 11	H = 01 49 33.2 h = 116 km MAG=5.2
	ePS	C 20 00	D = 124.96 Az = 331.7 (USCGS)
	eSS	C 26 52	LmH:17s 1.0/um MLH=5.5
	LmH	E 56.0	LmV:17s 0.4/um MLV=5.1
	LmV	E 03 03.5	
7.	+iP	A 06 57 37.5	<u>Near East Coast of Kamchatka</u>
	e	A 57 45	52.21 N 158.94 E
	e	A 57 55	H = 06 46 08.3 h = 69 km MAG=5.1 D = 73.85 Az = 339.0 (USCGS) PV:1.0s 59.1nm MPV=5.6
7.	ePKHKP	A 09 51 49	<u>Fiji Islands</u> 20.65 S 178.60 W
	ePKP2	A 51 55	H = 09 33 09.1 h = 630 km MAG=4.4 D = 149.00 Az = 347.3 (USCGS) PKHKPV:1.2s 16.3nm
7.	eP	A 15 43 42	<u>Kurile Islands</u> 45.20 N 148.27 E H = 15 32 02.5 h = 152 km MAG=4.5 D = 77.41 Az = 333.4 (USCGS)
8.	+iP	A 06 38 47	<u>Hindu Kush Region</u> 36.41 N 70.88 E
	i	A 39 07	H = 06 30 57.1 h = 198 km MAG=5.8
	e	A 39 14	D = 44.10 Az = 308.1 (USCGS)
	ipP	A 39 27	PV:2.0s 812.0nm MPV=5.9
	esP	A 39 48	pPV:1.8s 575.0nm
	i	A 39 51	sPV:1.6s 400.0nm
	e(PF)	E 40 44	
	e(pPP)	C 41 28	

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
8.	eiS	C 06 45 04	
	esS	C 46 20	
	esS	F 46 25	
	eSS	C 48 20	
	e	B 48 47	
	e	B 53 34	
8.	eSKS	E 11 32 40	<u>South Atlantic Ridge</u> 47.73 S 15.78 W
	eS	E 33 44	H = 11 08 14.8 h = normal MAG=5.9 (USCGS)
	eSS	B 40 30	D = 100.8
	eSSS	B 44 35	LmH:19s 3.0/um MLH=5.8
	LmH	E 12 05.4	LmV:19s 3.1/um MLV=5.8
LmV	E 05.5		
8.	e	C 20 59 21	<u>Banda Sea</u> 6.13 S 129.69 E
	e	C 21 03 08	H = 20 44 21.0 h = 196 km MAG=5.9 (USCGS)
	e	B 03 16	D = 112.2
	ePP	C 03 24	LmH:19s 6.5/um
	epPP	C 04 05	LmV:16s 4.5/um
	e(SKPF)	B 05 34	
	e(pPPP)	B 06 28	
	esSKP	C 07 22	
	eiSKS	C 09 57	
	eSKKS	B 09 59	
	esSKS	B 10 41	
	ei	C 12 08	
	iSP	C 12 33	
	ePPS	E 14 32	
	eSS	E 18 33	
e	B 24 28		
LmH	B 47.8		
LmV	B 51.3		
9.	e	B 09 24 12	<u>Northern Italy</u> 44.23 N 11.87 E
	eSg	B 24 35	H = 09 21 07.0 h = normal MAG=4.1 (USCGS)
	LmH	B 25.3	D = 6.5

August 1969

Moxa

Day	Phase	h m s	Remarks
9.	eP	A 13 50 24.5	<u>Carlsberg Ridge</u> 4.57 N 62.46 E H = 13 40 01.1 h = normal MAG=5.2 D = 62.49 Az = 326.2 (USCGS)
9.	ePn	A 16 27 58.5	<u>Yugoslavia</u> 42.38 N 19.43 E
	iPg	A 28 54.9	H = 16 25 35.2 h = 25 km MAG=5.0
	eSn	A 29 43.5	D = 9.86 Az = 329.7 (USCGS)
	i	A 29 58.5	PnV:1.5s 45.2nm
	i	A 30 09.5	LmH:14s 4.8/um MLH=4.5
	i	A 30 36	LmV:14s 2.5/um
	eiSg	A 31 03.5	
	LmH	E 31.2	
	LmV	E 32.0	
9.	ePn	A 17 03 26	<u>Yugoslavia</u> 42.22 N 19.26 E
	e	A 03 32	H = 17 01 01.3 h = 20 km MAG=4.6
	eSn	A 05 11	D = 9.93 Az = 330.6 (USCGS)
	e	A 05 13.5	LmH:9s 1.2/um MLH=4.1
	e	A 05 26	
	e	A 05 41.5	
	eSg	A 06 23	
	e	A 06 28	
	LmH	B 06.7	
	LmV	B 07.5	
10.	e	A 05 13 30	Probably <u>Burma</u> (USCGS)
10.	eP	A 15 51 33	<u>Carlsberg Ridge</u> 8.42 N 57.83 E H = 15 41 48.5 h = normal MAG=5.0 D = 56.77 Az = 326.7 (USCGS) PV:1.4s 11.6nm MPV=4.7
10.	ePn	A 21 18 04	<u>Northern Italy</u> 43.99 N 12.10 E
	ePg	A 18 36	H = 21 16 24.7 h = 33 km MAG=4.0 (USCGS)
	eSn	A 19 17	D = 6.7
	e	A 20 11	
	e	A 20 17	
	e	A 20 22	

August 1969

Moxa

Day	Phase	h m s	Remarks
11.	ePn	B 13 57 02	<u>Central Italy</u> 43.21 N 12.45 E
	ePg	E 57 41	H = 13 55 12.3 h = normal MAG=4.6
	eSn	E 58 23	D = 7.46 Az = 355.9 (USCGS)
	e	E 59 01	LmH:10s 1.0/um MLH=3.8
	eSg	E 59 12	LmV:11s 1.3/um
	LmH	E 14 01.0	
	LmV	E 01.1	
11.	eP	A 20 18 39.5	<u>South Atlantic Ridge</u> 19.68 S 11.68 W H = 20 07 11.9 h = normal MAG=4.8 D = 72.97 Az = 15.3 (USCGS)
11.	e	A 21 20(00)	<u>Kurile Islands</u> 43.96 N 147.83 E
	e	A 20 03	H = 21 07 57.8 h = 20 km MAG=4.5 D = 78.37 Az = 233.3 (USCGS)
11.	eP	A 21 33 49	<u>Kurile Islands</u> 43.38 N 147.62 E H = 21 21 47.4 h = 29 km MAG=4.5 D = 78.83 Az = 333.2 (USCGS)
11.	+iP	AB 21 38 37.5	<u>Kurile Islands</u> 43.44 N 147.86 E H = 21 26 37.6 h = 43 km MAG=5.7 D = 78.85 Az = 333.3 (USCGS) PV(A):2.2s 393.0nm MPV=6.1 PV(B):4.8s 2.0/um MPV=6.4
11.	-iP	A 21 39 29	<u>Kurile Islands</u> 43.57 N 147.75 E H = 21 27 25.8 h = 14 km MAG=5.9 D = 78.70 Az = 333.3 (USCGS)
11.	iP	A 21 39 37	<u>Kurile Islands</u> 43.50 N 147.82 E
	ePP	B 42 35	H = 21 27 36.0 h = 45 km MAG=6.2 (USCGS)
	iS	E 49 32	D = 78.7
	eiSS	St 54 44	LmH:21s 1020.0/um MLH=8.1
	LmH	B 22 23.2	St = strain seismograph
	LmV	B 24.6	

August 1969

Moxa

Day	Phase	h m s	Remarks
11.	iP A	21 39 40	<u>Kurile Islands</u> 43.55 N 147.35 E H = 21 27 39.4 h = 28 km MAG=7.1 (USCGS) D = 78.5
11.	+iP A ipP A	21 48 08 48 18	<u>Kurile Islands</u> H = 21 36 08 (UPP) D ca. 78.6 h = 37 km
11.	+i(P) A i A e A	21 50 19.5 50 23 50 29	<u>Kurile Islands</u> H = 21 38 24 (UPP)
11.	eP A epP A	22 03 46 03 59	Probably <u>Kurile Islands</u> h = 50 km
11.	eP A	22 05 56.5	Probably <u>Kurile Islands</u>
11.	eP A e A	22 07 28 07 34	<u>Hokkaido, Japan Region</u> 44.0 N 145.7 E H = 21 55 35.3 h = 66 km MAG=5.5 (USCGS) D = 77.7
11.	iP A	22 13 <sup>a</sup> 18	<u>Kurile Islands</u> 43.5 N 147.3 E H = 22 01 17.9 h = normal MAG=5.3 (USCGS) D = 78.7
11.	iP A	22 22 52	<u>Kurile Islands</u> 43.7 N 148.5 E H = 22 10 51.5 h = normal MAG=5.3 (USCGS) D = 78.8
11.	eP A	22 27 45	<u>Kurile Islands</u> 44.2 N 148.4 E H = 22 15 43.9 h = normal MAG=4.8 (USCGS) D = 78.3
11.	eP A	22 39 47.5	<u>Off Coast of Hokkaido, Japan</u> 42.7 N 147.4 E H = 22 27 44.7 h = normal MAG=5.0 (USCGS) D = 79.4

August 1969

Moxa

Day	Phase	h m s	Remarks
11.	eP A	22 45 50	<u>Kurile Islands</u> H = 22 33 49 (UPP) D ca. 78.8
11.	e(pP) A	22 47 12	<u>Kurile Islands</u> H = 22 35 01 (UPP)
11.	eP A	22 54 03	<u>Off Coast of Hokkaido, Japan</u> 42.7 N 147.2 E H = 22 42 00.3 h = normal MAG=5.1 (USCGS) D = 79.4
11.	eP A epP A	23 01 33 01 45	<u>Kurile Islands</u> H = 22 49 35 (UPP) D ca. 78.5 h = 45 km
11.	eP A	23 04 18	<u>Kurile Islands</u> H = 22 52 20 (UPP) D ca. 78.2
11.	+iP A	23 05 56	<u>Kurile Islands</u> 44.0 N 148.3 E H = 22 54 00.4 h = 59 km MAG=5.4 (USCGS) D = 78.3 PV:1.2s 162.5nm MPV=6.0
11.	eP A	23 09 29.5	<u>Kurile Islands</u> H = 22 57 31 (UPP) D ca. 78.4
11.	eP A epP A	23 10 59 11 11	<u>Kurile Islands</u> H = 22 59 00 (UPP) D ca. 78.8 h = 50 km
11.	e(pP) A	23 12 07	<u>Kurile Islands</u> H = 22 59 58 (UPP)
11.	eP A epP A	23 13 00 13 10.5	<u>Kurile Islands</u> H = 23 01 00 (UPP) D ca. 78.6 h = 40 km

August 1969

Moxa

Day	Phase	h m s	Remarks	
11.	eP1 iP2 epP	A A A	23 14 56 14 58.5 15 07	<u>Kurile Islands</u> 43.09 N 147.79 E H = 23 02 53.8 h = normal MAG=5.5 D = 79.14 Az = 333.3 (USCGS) P1V:1.2s 55.0nm MP1V=5.5 P2V:1.4s 172.0nm MP2V=5.9
11.	eP	A	23 24 18	<u>Kurile Islands</u> H = 23 12 15 (UPP) D ca. 79.2
11.	eP e	A A	23 26 52 27 04	<u>Kurile Islands</u> 43.39 N 147.59 E H = 23 14 51.1 h = normal MAG=5.0 D = 78.81 Az = 333.2 (USCGS) PV:1.4s 23.3nm MPV=5.0
11.	eP ipP	A A	23 31 03 31 17	<u>Kurile Islands</u> 43.42 N 148.34 E H = 23 19 00.2 h = normal MAG=5.1 D = 79.03 Az = 333.6 (USCGS) h = 52 km PV:1.6s 33.0nm MPV=5.1 pPV:1.4s 83.7nm
11.	eP eipP eisP	A A A	23 33 44 33 55 33 59.5	<u>Kurile Islands</u> 43.38 N 147.49 E H = 23 21 43.1 h = normal MAG=5.2 D = 78.79 Az = 333.1 (USCGS) h = 40 km PV:2.2s 54.5nm MPV=5.2
11.	eP epP	A A	23 36 32 36 44.5	<u>Kurile Islands</u> 43.0 N 147.3 E H = 23 24 31.3 h = normal MAG=4.8 (USCGS) D = 79.1
11.	eP epP	A A	23 46 10.5 46 22	<u>Kurile Islands</u> 43.33 N 147.96 E H = 23 34 08.4 h = 32 km MAG=5.1 D = 78.98 Az = 333.4 (USCGS) h = 43 km PV:1.2s 28.4nm MPV=5.2 pPV:1.2s 52.8nm

August 1969

Moxa

Day	Phase	h m s	Remarks	
11.	eP epP esP	A A A	23 48 10 48 21 48 26	<u>Kurile Islands</u> 44.53 N 147.38 E H = 23 36 15.0 h = normal MAG=4.9 D = 77.72 Az = 333.0 (USCGS) h = 40 km PV:1.2s 24.4nm MPV=5.2 pPV:1.8s 50.6nm
11.	eP epP	A A	23 51 31 51 41.5	<u>Off Coast of Hokkaido, Japan</u> 42.88 N 146.71 E H = 23 39 29.0 h = normal MAG=5.0 D = 78.97 Az = 332.7 (USCGS) PV:1.0s 15.8nm MPV=5.0 pPV:1.2s 18.3nm
11.	eP epP	A A	23 54 03 54 15	<u>Kurile Islands</u> 43.66 N 147.78 E H = 23 42 03.5 h = 43 km MAG=5.6 D = 78.63 Az = 333.3 (USCGS) PV:1.5s 108.0nm MPV=5.7 pPV:1.5s 60.4nm
11.	eP	A	24 00 11	<u>Kurile Islands</u> H = 23 48 11 D ca. 78.6 PV:1.2s 16.3nm MPV=5.0
11.	eP	A	24 00 49	<u>Kurile Islands</u> 43.74 N 147.93 E H = 23 48 48.9 h = normal MAG=5.3 D = 78.61 Az = 333.3 (USCGS) PV:1.0s 13.8nm MPV=5.0
11.	eP1 eP2	A A	24 01 07 01 19	<u>Kurile Islands</u> H = 23 49 10 (UPP) D ca. 78.2 P1V:1.7s 60.5nm MP1V=5.4 P2V:1.4s 32.6nm MP2V=5.3
11.	eP e	A A	24 06 58 09 55	<u>Molucca Passage</u> 1.73 N 126.47 E H = 23 52 56.9 h = 34 km MAG=6.1

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
11.	e	A 24 10 55	D = 104.15 Az = 323.4 (USCGS) PV:2.0s 136.9nm MPV=6.4
12.	eP	A 00 23 23	<u>Kurile Islands</u> H = 00 11 25 (UPP) D ca. 78.2
12.	eP epP	A 00 27 28 A 27 39	<u>Kurile Islands</u> 43.68 N 147.72 E H = 00 15 28.4 h = 29 km MAG=5.3 D = 78.59 Az = 333.2 (USCGS) h = 40 km
12.	eP	A 00 31 07	<u>Kurile Islands</u> 43.06 N 146.72 E H = 00 19 09.3 h = 63 km MAG=4.5 D = 78.81 Az = 332.7 (USCGS)
12.	eP epP	A 00 37 43 A 37 56	<u>Kurile Islands</u> 44.46 N 148.66 E H = 00 25 45.4 h = 36 km MAG=5.1 D = 78.20 Az = 333.7 (USCGS) PV:1.0s 33.5nm MPV=5.4 pPV:1.8s 40.5nm
12.	eP	A 00 41 28	<u>Kurile Islands</u> 43.71 N 147.18 E H = 00 29 29.5 h = normal MAG=4.8 D = 78.39 Az = 332.9 (USCGS)
12.	eP	A 00 49 43	<u>Kurile Islands</u> H = 00 37 43 (UPP) D ca. 78.8
12.	eP	A 00 51 25	<u>Kurile Islands</u> H = 00 39 25 (UPP) D ca. 78.6
12.	e(pP)	A 00 53 18	<u>Kurile Islands</u> H = 00 41 07 (UPP)
12.	e	A 00 59 30	Probably <u>Kurile Islands</u>

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP epP	A 01 03 10 A 03 17	<u>Tibet</u> 32.31 N 83.01 E H = 00 53 45.0 h = 39 km MAG=4.7 D = 54.39 Az = 312.1 (USCGS) PV:1.1s 8.1nm MPV=4.7
12.	eP epP	A 01 05 36.5 A 05 47	<u>Kurile Islands</u> 43.36 N 147.30 E H = 00 53 36.0 h = 30 km MAG=5.0 D = 78.74 Az = 333.0 (USCGS) PV:1.6s 27.4nm MPV=5.0 pPV:1.2s 32.5nm
12.	eP	A 01 07 31.5	<u>Kurile Islands</u> H = 00 55 33 (UPP) D ca. 78.3 PV:1.4s 14.0nm MPV=4.9
12.	eP	A 01 13 43	<u>Kurile Islands</u> H = 01 01 42 (UPP) D ca. 79.0
12.	eP epP	A 01 15 07 A 15 18	<u>Kurile Islands</u> 43.55 N 147.22 E H = 01 03 07.3 h = normal MAG=4.8 D = 78.54 Az = 333.0 (USCGS) h = 40 km PV:1.5s 25.1nm MPV=5.1
12.	eiP epP e e	A 01 15 28 A 15 36 A 15 44 A 15 49	<u>Kurile Islands</u> H = 01 03 27 (UPP) D ca. 78.8 h = 30 km PV:1.4s 32.6nm MPV=5.2
12.	eP	A 01 24 24	<u>Kurile Islands</u> 43.98 N 148.08 E H = 01 12 24.7 h = normal MAG=4.5 D = 78.44 Az = 333.4 (USCGS)
12.	e(P)	A 01 24 46	<u>Kurile Islands</u> H = 01 12 52 (UPP)

August 1969

Moxa

Day	Phase	h m s	Remarks	
12.	eP e epP	A A A	01 40 26 40 30 40 38	<u>Kurile Islands</u> 42.95 N 147.69 E H = 01 28 22.0 h = normal MAG=4.8 D = 79.23 Az = 333.3 (USCGS) h = 45 km PV:1.2s 12.2nm MPV=4.8
12.	eP epP e	A A A	01 46 58 47 07.5 47 22	<u>Kurile Islands</u> 43.65 N 147.49 E H = 01 34 57.4 h = normal MAG=4.2 D = 78.54 Az = 333.1 (USCGS) h = 37 km
12.	eP epP	A A	01 54 49 55 01.5	<u>Kurile Islands</u> H = 01 42 50 (UPP) D ca. 78.6 h = 46 km
12.	eP	A	02 06 37	<u>Kurile Islands</u> 43.47 N 148.05 E H = 01 54 34.9 h = normal MAG=4.4 D = 78.88 Az = 333.4 (USCGS)
12.	e(pP)	A	02 08 07	<u>Kurile Islands</u> 43.66 N 148.26 E H = 01 55 56.0 h = normal MAG=4.7 D = 78.78 Az = 333.5 (USCGS)
12.	eP	A	02 18 43	<u>Kurile Islands</u> 43.3 N 147.4 E H = 02 06 41.7 h = normal MAG=4.4 (USCGS) D = 78.7
12.	eP epP	A A	02 31 22 31 30	<u>Kurile Islands</u> 43.80 N 148.37 E H = 02 19 21.8 h = 38 km MAG=4.7 D = 78.69 Az = 333.6 (USCGS) h = 30 km
12.	eP	A	02 35 52	<u>Molucca Passage</u> 1.7 N 126.3 E H = 02 51 53.0 h = 67 km MAG=5.0 (USCGS) D = 104.1
12.	eP	A	02 43 17	<u>Kurile Islands</u> H = 02 31 17 (UPP) D = 78.6

August 1969

Moxa

Day	Phase	h m s	Remarks	
12.	eP epP	A A	02 46 40 46 54	<u>Kurile Islands</u> 43.0 N 147.2 E H = 02 34 42.1 h = normal MAG=4.3 (USCGS) D = 79.1 h = 50 km
12.	eP epP	A A	02 48 51 49 02	<u>Kurile Islands</u> 43.94 N 148.32 E H = 02 36 51.5 h = normal MAG=5.1 D = 78.56 Az = 333.5 (USCGS) h = 40 km PV:1.6s 32.9nm MPV=5.2
12.	eiP	A	03 21 06	<u>Kurile Islands</u> 44.57 N 148.47 E H = 03 09 08.7 h = normal MAG=5.0 D = 78.04 Az = 333.6 (USCGS) PV:1.2s 22.3nm MPV=5.2
12.	eP	A	03 30 41	<u>Kurile Islands</u> 44.71 N 148.17 E H = 03 18 45.7 h = normal MAG=4.2 D = 77.82 Az = 333.4 (USCGS)
12.	eP epP	A A	03 31 16.5 31 25	<u>Kurile Islands</u> H = 03 19 16 (UPP) D ca. 78.6 h = 35 km
12.	eP epP	A A	03 42 23 42 35	<u>Kurile Islands</u> 43.6 N 148.1 E H = 03 30 22.5 h = normal MAG=4.2 (USCGS) D = 78.6 h = 45 km
12.	+iP epP eX eS LmH LmV	AB A B B E E	03 45 40 45 51 46 00 55 39 04 25.5 32.8	<u>Kurile Islands</u> 43.08 N 147.63 E H = 03 33 37.2 h = normal MAG=5.5 D = 79.10 Az = 333.2 (USCGS) h = 40 km PV(A):2.1s 115.5nm MPV=5.5 PV(B):9s 1.6/um MPV=6.0 XV(A):3.0s 631.0nm XV(B):3.5s 0.7/um SH(B):8s 1.4/um MSH = 6.1 LmH:14s 8.2/um MLH = 6.2 LmV:16s 4.9/um MLV = 6.0

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP	A 04 01 11.5	<u>Kurile Islands</u> 43.56 N 148.10 E H = 03 49 09.6 h = normal MAG=4.4 D = 78.82 Az = 333.5 (USCGS)
12.	eP epP	A 04 10 27 A 10 41	<u>Kurile Islands</u> 43.1 N 148.7 E H = 03 58 19.9 h = normal MAG=4.5 (USCGS) D = 79.4 h = 50 km
12.	eP	A 04 24 48	<u>Kurile Islands</u> 43.3 N 146.7 E H = 04 12 52.2 h = 86 km MAG=4.8 D = 78.5 PV:0.8s 13.4nm MPV=5.1
12.	e(P)	A 04 33 15	<u>Kurile Islands</u> H = 04 21 09 and H = 04 21 16 (UPP)
12.	eP epP	A 04 38 51 A 39 04	<u>Kurile Islands</u> 43.62 N 147.88 E H = 04 26 55.0 h = 66 km MAG=4.2 D = 78.63 Az = 333.2 (USCGS) h = 50 km
12.	eP epP	A 04 41 09 A 41 21	<u>Kurile Islands</u> 43.78 N 147.90 E H = 04 29 08.7 h = normal MAG=4.4 D = 78.56 Az = 333.3 (USCGS) h = 45 km
12.	e e	A 05 00 24 A 00 42	<u>Kurile Islands</u> 42.96 N 147.80 E H = 04 48 25.1 h = normal MAG=5.0 D = 79.26 Az = 333.3 (USCGS)
12.	-iP ipP isP	A 05 05 38 A 05 50 A 05 55.5	<u>Kurile Islands</u> 43.31 N 147.51 E H = 04 53 36.5 h = normal MAG=5.7 D = 78.85 Az = 333.2 (USCGS) h = 37 km PV:1.4s 121.0nm MPV=5.7 pPV:1.7s 115.0nm sPV:1.8s 155.5nm

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	+iP +i -ipP -i eS isKS eiPS eSS LmH LmV	A 05 15 28 C 15 30 A 15 41.5 A 16 03.5 C 25 20 E 25 32 E 26 09 C 30 32 E 48.1 E 55.3	<u>Kurile Islands</u> 43.60 N 146.00 E H = 05 03 26.9 h = normal MAG=6.0 D = 78.75 Az = 333.4 (USCGS) h = 50 km PV(A):1.4s 433.0nm MPV=6.3 PV(E):10s 7.8/um MPV=6.7 pPV:1.6s 632.0nm LmH:20s 105.0/um MLH=7.2 LmV:16s 45.5/um MLV=6.9
12.	eP	A 05 21 01	<u>Kurile Islands</u> 43.21 N 147.04 E H = 05 08 59.0 h = normal MAG=5.4 D = 78.78 Az = 332.9 (USCGS) PV:1.3s 43.7nm MPV=5.4
12.	+eP1 iP1 iP2 epP1 ipP2 ei eS LmH LmV	A 06 05 29 A 05 29.3 A 05 31.5 A 05 41 A 05 43.5 A 05 51 A 06 15 26 E 38.5 E 44.9	<u>Kurile Islands</u> 43.6 N 148.0 E H = 05 03 26.9 h = normal MAG=6.0 (USCGS) D = 78.7 P1V:1.2s 42.7nm MP1V=5.4 P2V:1.0s 157.4nm MP2V=6.1 pP1V:1.2s 81.3nm pP2V:1.7s 418.0nm SH(A):3.0s 937.0/um MSH(A)=6.3 LmH:19.5s 61.0/um MLH=7.0 LmV:17s 26.6/um MLV=6.7
12.	eP	A 06 12 18	<u>Kurile Islands</u> 43.23 N 147.28 E H = 06 00 16.4 h = normal MAG=4.4 D = 78.85 Az = 333.0 (USCGS) PV:1.4s 14.0nm MPV=4.8
12.	eP	A 06 50 51.5	<u>Kurile Islands</u> 43.10 N 147.46 E H = 06 38 49.0 h = normal MAG=5.3 D = 79.02 Az = 333.1 (USCGS) PV:1.2s 36.6nm MPV=5.0
12.	e(P)	A 06 54 53.5	<u>Kurile Islands</u> 43.13 N 147.00 E H = 06 42 55.5 h = normal MAG=4.6 D = 78.84 Az = 332.9 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP e	A A	07 01 32 01 42 <u>Off Coast of Hokkaido, Japan</u> 42.94 N 146.67 E H = 06 49 30.3 h = normal MAG=4.6 (USCGS) D = 79.0 PV:1.2s 12.2nm MPV=4.8
12.	eP epP	A A	07 15 47.5 16 00.5 <u>Kurile Islands</u> 43.25 N 147.56 E H = 07 03 45.2 h = normal MAG=4.8 D = 78.92 Az = 333.2 (USCGS) h = 50 km PV:1.4s 23.2nm MPV=5.0 pPV:1.5s 40.2nm
12.	eP e(pP)	A A	07 18 59 19 08.5 <u>Kurile Islands</u> H = 07 06 58 (UPP) D ca. 78.8
12.	-iP e e	A A A	07 22 42 22 55.5 22 58 <u>Kurile Islands</u> 43.65 N 147.94 E H = 07 10 41.4 h = normal MAG=5.3 D = 78.69 Az = 333.4 (USCGS) PV:1.2s 61.0nm MPV=5.6
12.	eP	A	07 50 10 <u>Kurile Islands</u> 43.90 N 147.70 E H = 07 38 10.7 h = normal MAG=4.9 D = 78.39 Az = 333.2 (USCGS) PV:1.0s 23.6nm MPV=5.3
12.	eP e	A A	08 06 51 07 03 <u>Off Coast of Hokkaido, Japan</u> 42.57 N 146.62 E H = 07 54 51.0 h = 62 km MAG=4.7 D = 79.21 Az = 332.7 (USCGS)
12.	eP	A	08 14 57.5 <u>Kurile Islands</u> H = 08 02 57 (UPP) D ca. 78.6
12.	eP	A	08 16 57 <u>Kurile Islands</u> 43.81 N 148.54 E H = 08 04 58.5 h = 50 km MAG=4.6 D = 78.74 Az = 333.7 (USCGS)

174

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP	A	08 53 50.5 <u>Kurile Islands</u> 43.70 N 148.36 E H = 08 41 50.0 h = 33 km MAG=4.5 D = 78.78 Az = 333.6 (USCGS)
12.	eP	A	09 27 50.5 <u>Kurile Islands</u> H = 09 15 52 (UPP) D c. 78.2
12.	eP	A	09 33 10 <u>Kurile Islands</u> 43.13 N 147.34 E H = 09 21 07.8 h = 32 km MAG=4.5 D = 78.95 Az = 333.1 (USCGS)
12.	eP	A	09 35 39 <u>Kurile Islands</u> H = 09 23 38 (UPP) D c. 78.8
12.	+eP Pm epP eS eSKS LmH LmV	A A A B B B B	09 37 41 37 44 37 52.5 47 34 47 50 10 10.2 17.4 <u>Kurile Islands</u> 43.11 N 147.56 E H = 09 25 38.7 h = normal MAG=5.3 D = 79.04 Az = 333.2 (USCGS) PmV:1.5s 161.0nm MPV=5.8 LmH:21s 9.8/um MLH=6.1 LmV:18s 4.5/um MLV=5.9
12.	-iP -ipP	A A	09 45 43 45 52 <u>Kurile Islands</u> 43.56 N 147.49 E H = 09 33 43.2 h = 34 km MAG=5.6 D = 78.62 Az = 333.1 (USCGS) PV:2.0s 205.0nm MPV=5.9 pPV:1.2s 89.5nm
12.	eP	A	10 06 38 <u>Kurile Islands</u> 43.04 N 147.46 E H = 09 54 34.6 h = normal MAG=4.3 D = 79.07 Az = 333.1 (USCGS)
12.	e(P)	A	10 34 47.5 <u>Kurile Islands</u> 42.99 N 147.49 E H = 10 22 41.2 h = normal MAG=4.4 D = 79.13 Az = 333.2 (USCGS)

175



August 1969

Moxa

Day	Phase	h m s	Remarks
12.	e(P)	A 10 35(27)	<u>Kurile Islands</u> H = 10 23 27 (UPP) D ca. 78.6
12.	eP iP Pm e e eS eSKS eSP eSS LmH LmV	A 11 33 22.5 E 33 24 A 33 26 A 33 28 A 33 33 C 43 15 B 43 20 E 44 05 C 48 32 B 12 06.3 B 12.7	<u>Kurile Islands</u> 43.94 N 148.74 E H = 11 21 21.6 h = 29 km MAG=5.4 D = 78.69 Az = 333.8 (USCGS) PmV(A):1.8s 378.0nm MPV=6.2 PV(B):12s 4.5/um MPV=6.4 LmH:20s 64.0/um MLH=7.0 LmV:16s 25.2/um MLV=6.7
12.	eP	A 11 40 13	<u>Kurile Islands</u> H = 11 28 14 (UPP) D ca. 78.4
12.	eP1 eP2 epP	A 11 44 30.5 A 44 33 A 44 40.5	<u>Kurile Islands</u> 43.18 N 147.55 E H = 11 32 24.3 h = 10 km MAG=5.2 D = 78.98 Az = 333.2 (USCGS) h = 40 km P2V:1.6s 49.4nm MPV=5.3
12.	eP epP	A 11 46 03 A 46 13	<u>Kurile Islands</u> 44.02 N 148.99 E H = 11 34 02.0 h = normal MAG=5.1 D = 78.70 Az = 333.9 (USCGS) h = 37 km PV:1.2s 16.3nm MPV=5.0
12.	+eiP	A 12 08 54	<u>Kurile Islands</u> 43.89 N 147.67 E H = 11 56 54.9 h = normal MAG=5.0 D = 78.39 Az = 333.2 (USCGS) PV:1.1s 36.3nm MPV=5.4

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	e(P) e	A 12 19(13) A 19 19	<u>Kurile Islands</u> H = 12 07 08 (UPP) (D ca. 79.5)
12.	eP	A 12 35 21	<u>Molucca Passage</u> 1.74 N 126.32 E H = 12 21 19.0 h = 30 km MAG=5.8 D = 104.05 Az = 323.4 (USCGS) PV:1.6s 16.5nm MPV=5.6
12.	eP ePm epP	A 12 43 52 A 43 54.5 A 44 01	<u>Off Coast of Hokkaido, Japan</u> 42.93 N 147.77 E H = 12 31 48.2 h = 40 km MAG=5.0 D = 79.27 Az = 333.3 (USCGS) h = 33 km PmV:1.7s 54.5nm MPV=5.3 pPV:1.6s 55.0nm
12.	eP	A 12 50 54	<u>Kurile Islands</u> H = 12 38 55 (UPP) D ca. 78.4
12.	eP	A 12 56 40.5	<u>Kurile Islands</u> 43.2 N 147.5 E H = 12 44 37.4 h = normal MAG=4.2 (USCGS) D = 78.8
12.	eP	A 13 24 29	<u>Kurile Islands</u> 43.39 N 147.96 E H = 13 12 26.0 h = normal MAG=4.0 D = 78.93 Az = 333.4 (USCGS)
12.	-iP e(pP) e	A 13 28 39 A 28 50 A 28 52	<u>Kurile Islands</u> 43.46 N 148.44 E H = 13 16 35.5 h = 33 km MAG=4.7 D = 79.02 Az = 333.7 (USCGS) PV:1.4s 18.6nm MPV=4.9
12.	+iP1 +iP2 e Pm eS	A 13 30 09 A 30 17 A 30 20 A 30 23 B 40 05	<u>Kurile Islands</u> 43.49 N 148.01 E H = 13 18 08.2 h = normal MAG=5.6 D = 78.85 Az = 333.4 (USCGS) P1V:1.5s 111.0nm MP1V=5.7 P2V:1.5s 131.0nm MP2V=5.7

August 1969

Moxa

Day	Phase	h m s	Remarks
cont. 12.	LmH LmV	B 14 08.7 B 09.7	P3m:1.4s 280.0nm MP3mV=6.1 LmH:14.5s 3.0/um MLH=5.8 LmV:16s 2.5/um MLV=5.7
12.	eP	A 13 35 18	<u>Kurile Islands</u> H = 13 23 17 (UPP) D ca. 78.8
12.	e	A 13 37 17	<u>Kurile Islands</u> H = 13 25 06 (UPP)
12.	eP epP	A 14 45 04 A 45 16	<u>Kurile Islands</u> 43.68 N 148.26 E H = 14 33 03.1 h = normal MAG=4.5 D = 78.77 Az = 333.5 (USCGS) h = 45 km
12.	e	A 14 46 10	Probably <u>Kurile Islands</u>
12.	eP	A 15 12 28	<u>Kurile Islands</u> 43.85 N 148.84 E H = 15 00 26.1 h = normal MAG=4.3 D = 78.80 Az = 333.8 (USCGS)
12.	eP epP e e	A 15 24 25 A 24 36 A 24 39 A 24 43	<u>Kurile Islands</u> 43.19 N 147.46 E H = 15 12 22.1 h = normal MAG=4.4 D = 78.94 Az = 333.1 (USCGS) h = 40 km
12.	eP	A 15 37 56	<u>Kurile Islands</u> 43.25 N 147.60 E H = 15 25 53.3 h = normal MAG=4.3 D = 78.93 Az = 333.2 (USCGS) PV:1.5s 12.6nm MPV=4.7
12.	eP e epP	A 15 40 00 A 40 09.5 A 40 13.5	<u>Kurile Islands</u> 44.54 N 148.98 E H = 15 28 01.4 h = normal MAG=4.7 D = 78.22 Az = 333.9 (USCGS) PV:1.2s 18.3nm MPV=5.1 pPV:1.1s 24.2nm

178

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP	A 16 01(26)	<u>Kurile Islands</u> H = 15 49 27 (UPP) (D ca. 78.4)
12.	eP epP	A 16 01 56 A 02 07	<u>Kurile Islands</u> H = 15 49 56 (UPP) D ca. 78.6 h = 40 km PV:1.1s 16.1nm MPV=5.0 pPV:1.2s 18.3nm
12.	eP e e	A 16 55 39 A 55 52 A 55 57	<u>Kurile Islands</u> 43.69 N 147.86 E H = 16 43 36.8 h = 24 km MAG=4.8 D = 78.63 Az = 333.3 (USCGS) PV:1.4s 18.6nm MPV=5.0
12.	eP	A 17 12 27	<u>Kurile Islands</u> 43.91 N 148.11 E H = 17 00 27.9 h = normal MAG=4.4 D = 78.51 Az = 333.4 (USCGS) PV:1.4s 16.3nm MPV=4.9
12.	eP e epP	A 17 20 39 A 20 40 A 20 51	<u>Kurile Islands</u> 43.47 N 148.22 E H = 17 08 37.3 h = normal MAG=4.8 D = 78.94 Az = 333.5 (USCGS) pPV:2.0s 34.2nm
12.	e	A 17 47 20	<u>Kurile Islands</u> 43.37 N 147.47 E H = 17 35 04.2 h = normal MAG=4.2 D = 78.79 Az = 333.1 (USCGS)
12.	e	A 19 02 05	<u>Kurile Islands</u> H = 18 49 54 (UPP)
12.	eP e	A 19 30 11 A 30 25	<u>Kurile Islands</u> 44.10 N 148.70 E H = 19 18 10.8 h = normal MAG=4.1 D = 78.53 Az = 333.7 (USCGS)
12.	eP	A 20 30 47	<u>Kurile Islands</u> 43.13 N 147.66 E H = 20 18 40.9 h = normal MAG=4.2 (USCGS) D = 79.0

179

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	+iP	A 21 28 13.5	<u>Off Coast of Hokkaido, Japan</u>
	epP	A 28 23	42.87 N 146.55 E
	e	A 28 41	H = 21 16 11.3 h = normal MAG=5.4
	e	C 38 07	D = 78.92 Az = 332.7 (USCGS)
	eSS	C 44 00	h = 37 km
	LmH	B 22 07.5	PV:1.4s 74.4nm MPV=5.5
	LmV	B 07.5	LmH:15s 1.4/um MLH=5.4 LmV:16s 1.2/um MLV=5.4
12.	eP	A 22 08 35	<u>Kurile Islands</u> 43.27 N 147.42 E
	Pm	A 08 38	H = 21 56 31.4 h = 14 km MAG=4.8 D = 78.86 Az = 333.1 (USCGS) PmV:1.6s 30.2nm MPV=5.1
12.	e	A 22 34 07.5	<u>Off East Coast of Kamchatka</u>
			51.53 N 159.55 E H = 22 22 16.5 h = normal MAG=4.5 D = 74.62 Az = 339.5 (USCGS)
12.	eP	A 23 17 59	<u>Kurile Islands</u> 43.28 N 147.75 E
	Pm	A 18 02	H = 23 05 57.1 h = normal MAG=5.0
	eS	C 27 50	D = 78.95 Az = 333.3 (USCGS)
	e	B 28 00	PmV:1.3s 30.6nm MPV=5.2
	eSS	C 33 00	LmH:20s 4.6/um MLH=5.8
	LmH	B 50.6	LmV:16s 4.1/um MLV=5.9
	LmV	B 57.7	
12.	eP	A 23 27 52	<u>Kurile Islands</u> 43.34 N 147.83 E
	e	A 27 54	H = 23 15 48.9 h = normal MAG=4.8
	epP	A 28 04.5	D = 78.93 Az = 333.3 (USCGS) h = 50 km PV:1.1s 16.1nm MPV=5.0 pPV:1.2s 24.4nm
12.	e(pP)	A 23 52 51	<u>Kurile Islands</u> 43.23 N 147.45 E H = 23 40 37.8 h = normal MAG=4.0 D = 78.90 Az = 333.1 (USCGS)

180

August 1969

Moxa

Day	Phase	h m s	Remarks
12.	eP	A 24 01 28	<u>Kurile Islands</u> 44.29 N 147.07 E H = 23 49 31.8 h = normal MAG=4.5 D = 77.84 Az = 332.8 (USCGS)
	eP	A 00 19 10	<u>Kurile Islands</u> H = 00 07 06 (UPP)
13.	i(P)	A 01 14 10	<u>Kurile Islands</u> 43.78 N 148.54 E
	e	A 14 23	H = 01 02 15.1 h = 39 km MAG=4.6
13.	e	A 14 25	D = 78.77 Az = 333.7 (USCGS)
	e(P)	A 01 49(28)	<u>Kurile Islands</u> 42.96 N 147.68 E H = 01 37 29.1 h = normal MAG=4.0 D = 79.22 Az = 333.3 (USCGS)
13.	eP	A 02 19 08	<u>Kurile Islands</u> 43.78 N 148.72 E
	-i	A 19 10	H = 02 07 07.3 h = 35 km MAG=4.8
	epP	A 19 22	D = 78.82 Az = 333.8 (USCGS)
	eSKS	C 29 18	(h = 50 km)
	LmH	B 51.7	PV:1.8s 74.3nm MPV=5.4
	LmV	B 58.4	pPV:1.8s 60.8nm LmH:20s 1.9/um MLH=5.4 LmV:16s 1.7/um MLV=5.5
13.	iP	A 03 41 15	<u>Kurile Islands</u> 43.48 N 147.36 E
	e	A 41 19.5	H = 03 29 14.1 h = normal MAG=5.5
	e	A 41 28	D = 78.65 Az = 333.1 (USCGS)
	e	A 41 57	PV:1.2s 61.0nm MPV=5.6
	eS	C 51 08	LmH:15.5s 1.7/um MLH=5.5
	LmH	B 04 14.3	LmV:16s 1.5/um MLV=5.5
13.	eP	A 03 59 15	<u>Kurile Islands</u> 43.84 N 148.50 E
	e	A 59 30	H = 03 47 14.2 h = normal MAG=4.6 D = 78.70 Az = 333.7 (USCGS) PV:1.3s 13.1nm MPV=4.9
13.	e(P)	A 04 02 52	<u>Kurile Islands</u> 43.14 N 147.05 E H = 03 50 54.5 h = normal MAG=4.2 D = 78.85 Az = 332.9 (USCGS)

181

August 1969

Moxa

Day	Phase	h m s	Remarks	
13.	eP e e	A A A	04 09 24 09 39 09 47	<u>Greece</u> 38.57 N 21.75 E H = 04 06 03.8 h = normal MAG=4.5 D = 14.05 Az = 332.5 (USCGS)
13.	iP epP LmH LmV	A A B B	04 40 20 40 32.5 05 19.0 19.9	<u>Kurile Islands</u> 43.51 N 148.02 E H = 04 28 18.0 h = normal MAG=5.2 D = 78.84 Az = 333.4 (USCGS) h = 45 km LmH:14s 1.2/um MLH=5.4 LmV:15s 1.2/um MLV=5.4
13.	ePKP e	A A	05 03 06.5 03 20	<u>South of Fiji Islands</u> 23.88 S 177.04 W H = 04 43 48.7 h = 380 km MAG=4.3 D = 152.44 Az = 348.1 (USCGS) PKPV:1.2s 14.2nm
13.	eP	A	06 06 52	<u>Kurile Islands</u> 43.88 N 147.75 E H = 05 54 53.1 h = 34 km MAG=4.8 D = 78.42 Az = 333.2 (USCGS) PV:1.1s 24.2nm MPV=5.2
13.	eP	A	06 17 15	<u>Kurile Islands</u> H = 06 05 15 (UPP) D ca. 78.6
13.	eP	A	06 22 23	<u>Kurile Islands</u> 43.76 N 147.66 E H = 06 10 27.3 h = 63 km MAG=4.7 D = 78.50 Az = 333.2 (USCGS) PV:1.1s 24.2nm MPV=5.2
13.	eP epP	A A	07 36 06.5 36 17	<u>Kurile Islands</u> 43.06 N 146.99 E H = 07 24 05.1 h = normal MAG=4.7 D = 78.90 Az = 332.9 (USCGS) h = 40 km PV:1.3s 10.9nm MPV=4.7 pPV:1.3s 24.0nm

August 1969

Moxa

Day	Phase	h m s	Remarks	
13.	+iP -i Pm i e eSKS eS eSS ei LmH LmV	AB A A A B B B C C B B	08 43 30 43 32.5 43 34 43 44 44 40 53 20 53 40 58 18 59 00 09 22.1 22.8	<u>Kurile Islands</u> 43.99 N 147.72 E H = 08 31 32.2 h = normal MAG=5.6 D = 78.32 Az = 333.2 (USCGS) PV(A):1.2s 97.5nm MPV=5.8 PV(E):6.5s 1.4/um MPV=6.2 PmV(A):1.1s 294.0nm MPmV=6.3 LmH:15s 5.8/um MLH=6.0 LmV:16s 5.9/um MLV=6.1
13.	e	A	09 32 38	<u>Kurile Islands</u> 43.86 N 148.43 E H = 09 20 34.0 h = normal MAG=4.4 D = 78.66 Az = 333.6 (USCGS)
13.	eP	A	10 19 16	<u>Kurile Islands</u> 43.56 N 147.53 E H = 10 07 13.9 h = normal MAG=4.0 D = 78.64 Az = 333.1 (USCGS)
13.	eP epP LmH LmV	A A E B	12 25 11.5 25 24 57.5 13 04.7	<u>Kurile Islands</u> 43.22 N 147.91 E H = 12 13 07.0 h = 14 km MAG=4.8 D = 79.06 Az = 333.4 (USCGS) h = 50 km PV:1.5s 20.1nm MPV=4.9 LmH:20s 0.6/um MLH=4.9 LmV:16s 0.3/um MLV=4.8
13.	eP	A	12 40 45	<u>Kurile Islands</u> H = 12 28 46 (UPP) D ca. 78.4
13.	eP epP LmH LmV	A A B B	12 42 50.5 43 02.5 13 15.7 22.4	<u>Kurile Islands</u> 43.29 N 147.76 E H = 12 30 48.3 h = normal MAG=4.8 D = 78.95 Az = 333.3 (USCGS) h = 45 km PV:1.2s 18.3nm MPV=5.0 LmH:20s 0.7/um MLH=5.0 LmV:17s 0.6/um MLV=5.0

August 1969

Moxa

Day	Phase	h m s	Remarks
13.	e	A 12 43 38	Probably <u>Kurile Islands</u> H = 12 31 27 (UPF)
	e	A 43 45	
13.	e	A 14 40 51	<u>Kurile Islands</u> 44.12 N 148.55 E H = 14 28 46.5 h = normal MAG=4.8 D = 78.46 Az = 333.7 (USCGS)
13.	+iP	A 14 41 11	<u>Kenai Peninsula, Alaska</u> 60.07 N 151.80 W H = 14 30 14.6 h = 69 km MAG=4.5 (USCGS) D = 68.7 PV:0.8s 26.9nm MPV=5.5
13.	eP	A 15 25 27	<u>Kurile Islands</u> H = 15 13 28 (UPF) D ca. 78.4
13.	eP	A 16 23 57	<u>Vancouver Island</u> 48.48 N 126.47 W H = 16 12 16.9 h = normal MAG=4.6 D = 74.90 Az = 26.1 (USCGS) PV:0.8s 7.7nm MPV=4.8
13.	+eP1	A 17 19 16.5	<u>Off Coast of Hokkaido, Japan</u> 42.77 N 146.62 E H = 17 07 13.8 h = normal MAG=4.7 D = 79.03 Az = 332.7 (USCGS) P1V:1.5s 25.1nm MP1V=5.0 P2V:1.4s 18.6nm LmH:16.5s 1.2/um MLH=5.3 LmV:16s 1.2/um MLV=5.4
	eP2	A 19 28	
	e	A 19 45	
	eS	C 29 12	
	LmH	B 57.3	
	LmV	B 58.8	
13.	eP	A 17 54 14	<u>Kurile Islands</u> 43.95 N 148.39 E H = 17 42 14.7 h = normal MAG=4.5 D = 78.56 Az = 333.6 (USCGS)
13.	eP	A 18 21 00.5	<u>Kurile Islands</u> 44.15 N 148.98 E H = 18 09 01.6 h = 40 km MAG=4.5 D = 78.57 Az = 333.9 (USCGS)
	e	A 21 12	
	e	A 21 16.5	

August 1969

Moxa

Day	Phase	h m s	Remarks
13.	+eP	A 19 45 35.5	<u>Kurile Islands</u> 43.92 N 147.84 E H = 19 33 41.21 h = 73 km MAG=5.1 D = 78.42 Az = 333.3 (USCGS) PV:1.2s 55.1nm MPV=5.5
13.	eP	A 20 21 17.5	<u>Kurile Islands Region</u> 43.58 N 148.09 E H = 20 09 15.8 h = normal MAG=4.6 (USCGS) D = 78.8 h = 40 km
	epP	A 21 28	
13.	eP	A 21 24 54	<u>Kurile Islands</u> 43.62 N 148.36 E H = 21 12 50.8 h = normal MAG=4.8 D = 78.85 Az = 333.6 (USCGS)
	epP	A 25 04	
13.	eP	A 22 54 08	<u>Kurile Islands</u> 44.22 N 149.18 E H = 22 42 07.9 h = 32 km MAG=4.8 D = 78.58 Az = 334.0 (USCGS) PV:2.2s 43.7nm MPV=5.2
	e	A 54 23.5	
	e	A 54 29	
13.	+iP1	AB 23 09 06.5	<u>Kurile Islands</u> 44.03 N 148.14 E H = 22 57 07.5 h = normal MAG=5.6 D = 78.41 Az = 333.4 (USCGS) P1V(A):1.6s 220.0nm MP1V=6.0 P1V(B):2.5s 1.0/um MP1V=6.5 P2V(A):1.4s 577.0nm MP2V=6.5 LmH:20s 16.6/um MLH=6.4 LmV:20s 15.6/um MLV=6.3
	iP2	A 09 10	
	ipP	B 09 16	
	e	B 10 52	
	eS	C 18 55	
	e	B 19 00	
	eSKS	B 19 18	
	eSS	C 24 00	
	LmH	B 42.0	
	LmV	B 48.5	
13.	eP	A 23 24 56	<u>Kurile Islands</u> 43.87 N 148.54 E H = 23 12 57.9 h = 40 km MAG=4.7 D = 78.69 Az = 333.7 (USCGS) PV:1.0s 13.8nm MPV=5.0
14.	eP	A 00 24 36	<u>Off Coast of Hokkaido, Japan</u> 42.94 N 147.23 E H = 00 12 31.5 h = normal MAG=4.2 D = 79.09 Az = 333.0 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
14.	e A	00 43 42	<u>Molucca Passage</u> 1.60 N 126.26 E H = 00 29 32.3 h = normal MAG=5.4 D = 104.12 Az = 323.4 (USCGS)
14.	e A	01 59 38	<u>Kurile Islands</u> 43.63 N 148.57 E H = 01 47 25.9 h = normal MAG=4.3 D = 78.91 Az = 333.7 (USCGS)
14.	eP A epP A	03 19 32 19 44	<u>Kurile Islands</u> 43.01 N 147.54 E H = 03 07 29.5 h = normal MAG=4.7 D = 79.13 Az = 333.2 (USCGS) h = 45 km PV:1.2s 8.5nm MPV=4.7 pPV:1.0s 19.7nm
14.	eP A e A e A e A LmH B LmV B	04 59 54 05 00 02.5 00 07 00 11 32.5 39.5	<u>Kurile Islands</u> 43.35 N 147.75 E H = 04 47 54.3 h = 48 km MAG=4.6 D = 78.90 Az = 333.3 (USCGS) PV:1.1s 12.1nm MPV=4.8 LmH:20s 0.3/um MLH=4.7 LmV:16s 0.3/um MLV=4.8
14.	eP A epP A	05 53(32) 53 45	<u>Kurile Islands</u> 43.24 N 147.84 E H = 05 41 29.1 h = normal MAG=4.0 D = 79.02 Az = 333.3 (USCGS) h = 45 km pPV:1.0s 11.8nm
14.	eP A e A LmH B LmV B	06 18 43 18 56 55.0 58.3	<u>Kurile Islands</u> 43.64 N 148.95 E H = 06 06 39.9 h = normal MAG=4.7 D = 79.02 Az = 333.9 (USCGS) h = 50 km PV:1.1s 16.1nm MPV=5.0 LmV:16s 0.2/um MLV=4.6
14.	eP A e A LmH B	09 11 52.5 11 20.5 44.4	<u>Kurile Islands</u> 43.08 N 147.54 E H = 08 59 49.6 h = normal MAG=4.7 D = 79.06 Az = 333.2 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
cont. 14.	LmV B	09 51.5	PV:1.5s 25.1nm MPV=5.0 LmH:20s 0.3/um MLH=4.6 LmV:16s 0.3/um MLV=4.8
14.	ePKIKP A ePS C e C eSS C e C LmV B LmH B	11 16 58 28 35 28 45 36 00 36 20 12 16.3 16.4	<u>New Britain</u> 5.37 S 152.02 E H = 10 58 01.7 h = normal MAG=5.6 D = 124.06 Az = 330.7 (USCGS) PKIKPV:(2.0s) 34.2nm LmV:20s 0.8/um MLV=5.4 LmH:20s 0.8/um MLH=5.4
14.	eP A epP A	12 03 14 03 25	<u>Kurile Islands</u> 43.08 N 147.49 E H = 11 51 12.5 h = normal MAG=4.7 D = 79.05 Az = 333.2 (USCGS) pPV:1.2s 18.3nm
14.	e(pP) A	12 28 26	<u>Kurile Islands</u> 43.45 N 148.20 E H = 12 16 14.6 h = normal MAG=4.3 D = 78.95 Az = 333.5 (USCGS)
14.	eP A	13 29 28	<u>Kurile Islands</u> H = 13 17 29 (UPP) D ca. 78.4
14.	eP A	13 43 46	<u>Off Coast of Hokkaido, Japan</u> 42.83 N 147.06 E H = 13 31 43.9 h = normal MAG=4.1 (USCGS) D = 79.3
14.	+iP AB Pm AB i A e B e B iS E eSS C e C	14 31 04.3 31 07 31 25 31 35 34 28 41 00 45 20 45 48	<u>Kurile Islands</u> 43.08 N 147.50 E H = 14 19 01.6 h = normal MAG=6.1 D = 79.05 Az = 333.2 (USCGS) PmV(A):1.8s 1150.0nm MPmV=6.6 PmV(B):12s 6.6/um MPmV=6.6 LmH:16s 86.7/um MLH=7.2 LmV:16s 67.6/um MLV=7.1

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
14.	e	C 14 46 48	
	eSSS	C 49 30	
	LmH	B 15 10.8	
	LmV	E 11.0	
14.	e	A 14 50 32.5	<u>Kurile Islands</u> 43.05 N 147.92 E H = 14 38 16.4 h = 15 km MAG=4.8 D = 79.22 Az = 333.4 (USCGS) PV:1.2s 18.3nm
	e	A 50 35	
14.	eP	A 15 11 40	<u>Kurile Islands</u> H = 14 59 41 (UPP) D ca. 78.4
14.	e(pP)	A 15 23 38	<u>Kurile Islands</u> H = 15 11 27 (UPP)
14.	eP	A 15 25 53	<u>Kurile Islands</u> 43.05 N 147.62 E H = 15 13 49.8 h = normal MAG=4.4 D = 79.12 Az = 333.2 (USCGS) PV:1.0s 15.7nm MPV=5.0
	epP	A 26 06	
14.	eP	A 15 31 34	<u>Kurile Islands</u> 44.06 N 147.80 E H = 15 19 34.7 h = normal MAG=4.4 D = 78.28 Az = 333.2 (USCGS) h = 35 km PV:1.0s 5.9nm MPV=4.7
	epP	A 31 43.5	
14.	eP	A 15 39 45	<u>Kurile Islands</u> 43.62 N 147.61 E H = 15 27 53.2 h = 106 km MAG=3.9 D = 78.61 Az = 333.2 (USCGS)
14.	eP	A 15 50 23	<u>Kurile Islands</u> 42.99 N 147.69 E H = 15 38 18.2 h = normal MAG=4.9 D = 79.20 Az = 333.3 (USCGS) PV:1.2s 12.2nm MPV=4.8
	e	A 50 37.5	
	e	A 50 42	

August 1969

Moxa

Day	Phase	h m s	Remarks
14.	eP	A 15 56 13	<u>Kurile Islands</u> H = 15 44 08 (UPP)
14.	eP	A 16 39 37.5	<u>Kurile Islands</u> 43.91 N 148.40 E H = 16 27 37.8 h = normal MAG=5.2 D = 78.60 Az = 333.6 (USCGS) h = 50 km PV:1.2s 24.4nm MPV=5.2
	epP	A 39 51	
14.	eP	A 17 10 44	<u>Kurile Islands</u> 43.08 N 147.64 E H = 16 58 40.1 h = normal MAG=4.8 D = 79.10 Az = 333.2 (USCGS) PV:1.1s 18.1nm MPV=5.0
	epP	A 10 57	
14.	eP	A 17 17 54.5	<u>Kurile Islands</u> 43.03 N 147.62 E H = 17 05 51.8 h = normal MAG=4.7 D = 79.14 Az = 333.2 (USCGS) h = 50 km PV:1.7s 36.4nm MPV=5.1
	epP	A 18 08	
14.	eP	A 17 24 57.5	<u>Kurile Islands</u> 44.01 N 147.93 E H = 17 12 58.7 h = normal MAG=4.1 D = 78.36 Az = 333.3 (USCGS) h = 40 km
	epP	A 25 08	
14.	eP	A 18 03 23	<u>Off Coast of Hokkaido, Japan</u> 42.92 N 147.72 E H = 17 51 18.5 h = normal MAG=4.7 D = 79.27 Az = 333.3 (USCGS) PV:1.0s 11.8nm MPV=4.9
14.	eP	A 18 33 39.5	<u>Kurile Islands</u> 42.99 N 147.62 E H = 18 21 36.5 h = normal MAG=4.7 D = 79.17 Az = 333.2 (USCGS) PV:1.6s 27.5nm MPV=5.0
	e	A 33 49	
	e	A 33 58.5	

August 1969

Moxa

Day	Phase	h m s	Remarks
14.	eP epP esP	A 20 27 43.5 A 27 55 A 28 02.5	<u>Off Coast of Hokkaido, Japan</u> 42.94 N 147.50 E H = 20 15 41.8 h = 46 km MAG=4.6 D = 79.18 Az = 333.2 (USCGS) PV:1.5s 20.1nm MPV=4.9
14.	eP	A 21 22 58	<u>Kurile Islands</u> 43.50 N 148.10 E H = 21 10 56.2 h = normal MAG=4.4 D = 78.87 Az = 333.5 (USCGS)
14.	+iP LmV LmH	A 21 54 55.5 E 22 03.1 E 03.4	<u>Turkey</u> 39.56 N 27.83 E H = 21 51 04.1 h = 21 km MAG=4.6 D = 15.89 Az = 319.5 (USCGS) PV:1.8s 47.4nm LmV:13s 0.7/um MLV=4.2 LmH:13s 1.2/um MLH=4.3
14.	+iP e LmH LmV	A 22 24 22.5 A 24 28 E 57.0 E 23 03.4	<u>Kurile Islands</u> 43.86 N 148.58 E H = 22 12 22.0 h = normal MAG=5.2 D = 78.70 Az = 333.7 (USCGS) PV:1.5s 70.4nm MPV=5.5 LmH:19s 1.1/um MLH=5.2 LmV:15s 0.9/um MLV=5.2
14.	+eP e e LmH LmV	A 24 00 11.5 A 00 14.5 A 00 24.5 E 33.5 E 39.2	<u>Off East Coast of Kamchatka</u> 52.17 N 160.54 E H = 23 48 36.0 h = normal MAG=4.8 (USCGS) D = 74.2 PV:1.1s 24.2nm MPV=5.1 LmH:16s 0.6/um MLH=5.0 LmV:15s 0.5/um MLV=5.0
15.	e	A 01 19 23	<u>Kurile Islands</u> 43.08 N 147.36 E H = 01 07 15.8 h = normal MAG=4.2 (USCGS) D = 79.0
15.	eP LmH LmV	A 01 55 57 E 02 30.0 E 35.0	<u>Costa Rica</u> 9.47 N 83.86 W H = 01 43 11.6 h = 9 km MAG=4.4 D = 86.21 Az = 39.4 (USCGS) PV:1.3s 12.1nm MPV=4.9

190

August 1969

Moxa

Day	Phase	h m s	Remarks
15.	ePKIKP ePP LmH	A 03 56 44 B 58 00 E 04 40.5	<u>Near North Coast of New Guinea</u> 3.51 S 144.39 E H = 03 37 52.8 h = 22 km MAG=5.4 D = 118.59 Az = 327.8 (USCGS) LmH:21.5s 1.6/um MLH=5.6
15.	+iP1 iP2 e e ei ei e LmH LmV	A 04 44 03.5 A 44 06.5 A 44 13 A 44 18 A 44 33 A 44 37 A 50 13.5 E 05 16.8 E 23.9	<u>Kurile Islands</u> 43.03 N 147.90 E H = 04 32 00.4 h = normal MAG=5.6 D = 79.23 Az = 333.4 (USCGS) P1V:1.3s 135.3nm MP1V=5.8 P2V:1.3s 178.0nm MP2V=5.9 LmH:20s 11.8/um MLH=6.2 LmV:15s 10.9/um MLV=6.3
15.	eP epP	A 04 52 20 A 52 30	<u>Kurile Islands</u> H = 04 40 15 (UPP) D ca. 79.5 h = 37 km
15.	eP	A 07 26 05	<u>Tibet</u> 30.21 N 95.04 E H = 07 15 37.0 h = normal MAG=5.2 (USCGS) D = 63.3 PV:1.6s 19.2nm MPV=5.0
15.	eP e e e e LmH LmV	A 06 30 37 A 30 45 A 30 49 A 30 55.5 A 31 52 E 07 03.2 E 10.2	<u>Kurile Islands</u> 43.26 N 147.78 E H = 06 18 36.5 h = 42 km MAG=4.8 D = 78.98 Az = 333.3 (USCGS) PV:1.4s 18.6nm MPV=4.9 LmH:20s 1.0/um MLH=5.2 LmV:17s 0.9/um MLV=5.2
15.	eP epP	A 07 33 50 A 34 01	<u>Kurile Islands</u> 43.56 N 148.49 E H = 07 21 47.6 h = 21 km MAG=4.9 D = 78.95 Az = 333.7 (USCGS) h = 40 km PV:1.3s 20.1nm MPV=5.0

191



August 1969

Moxa

Day	Phase	h m s	Remarks
15.	+iP	A 08 54 48	<u>Mariana Islands</u> 21.62 N 143.05 E
	e	A 55 03	H = 08 41 54.9 h = 319 km MAG=6.1
	esP	C 56 20	D = 96.29 Az = 331.3 (USCGS)
	e	A 58 40	PV:1.6s 280.0nm MPV=6.2
	ePP	B 58 44	FPV:1.8s 405.0nm
	iPP	A 58 46	PKKP:1.2s 24.4nm
	esPP	B 09 00 20	LmH:18s 2.4/um
	eSKS	E 04 56	LmV:13s 1.7/um
	eS	B 05 38	
	eSP	E 06 58	
	ePS	C 07 40	
	ePFS	E 08 22	
	ePKKP	A 11 34	
	eSS	C 11 57	
	e	B 12 15	
	e	B 12 35	
	esSS	C 14 08	
ePKPPKP	A 19 47		
LmH	B 34.8		
LmV	B 41.3		
15.	eP	A 09 59 58	<u>Kurile Islands</u> 43.93 N 147.54 E
	epP	A 10 00 10	H = 09 48 00.1 h = normal MAG=4.8 D = 78.31 Az = 333.1 (USCGS) PV:1.2s 24.4nm MPV=5.2 pPV:1.2s 32.5nm
15.	eP1	AB 10 14 22	<u>Kurile Islands</u> 43.11 N 148.27 E
	eP2	A 14 25	H = 10 02 17.9 h = normal MAG=4.7
	eP3	A 14 36	D = 79.28 Az = 333.6 (USCGS)
	eP4	AB 14 47	P1V(A):1.6s 22.0nm MP1V=4.9
	P4m	A 14 51	P1V(E):9s 0.7/um MP1V=5.6
	eS	C 24 20	P2V(A):1.6s 33.0nm MP2V=5.1
	LmH	B 53.8	P3V(A):1.5s 47.8nm MP3V=5.3
	LmV	E 54.8	P4V(B):12s 1.2/um MP4V=5.8 P4mV(A):1.9s 91.0nm MP4mV=5.5 LmH:14.5s 7.4/um MLH=6.2 LmV:15s 6.3/um MLV=6.1

August 1969

Moxa

Day	Phase	h m s	Remarks
15.	eP	A 10 46 12	<u>Kurile Islands</u> 43.61 N 148.07 E H = 10 34 11.6 h = 111 km MAG=4.2 D = 78.77 Az = 333.4 (USCGS)
	eP	A 11 41 54	<u>Kurile Islands</u> 43.24 N 147.83 E H = 11 29 53.1 h = 43 km MAG=4.4 D = 79.02 Az = 333.3 (USCGS) h = 45 km PV:1.3s 13.1nm MPV=4.8 pPV:1.2s 16.2nm
15.	eP	A 11 59 40	<u>Kurile Islands</u> 43.17 N 147.32 E H = 11 47 35.7 h = normal MAG=4.1 (USCGS) D = 78.8
	e(P)	A 14 21 58	<u>Kurile Islands</u> 43.32 N 147.50 E H = 14 09 53.1 h = 25 km MAG=4.2 D = 78.84 Az = 333.1 (USCGS)
15.	eP	A 17 08 24	<u>Kurile Islands</u> 43.10 N 147.68 E
	epP	A 08 34	H = 16 56 18.8 h = normal MAG=4.3 (USCGS) D = 79.1 h = 37 km h = 37 km
15.	eP	A 17 12 49	<u>Kurile Islands</u> 43.73 N 147.84 E
	e	A 12 51.5	H = 17 01 02.7 h = 147 km MAG=4.1 D = 78.58 Az = 333.3 (USCGS)
15.	ePKHKP	A 19 23 04.5	<u>South of Fiji Islands</u> 23.53 S 179.99 W
	ePKP2	A 23 16	H = 19 04 09.5 h = 518 km MAG=5.0
	epPKP	A 25 08	D = 151.46 Az = 344.4 (USCGS)
	e	A 25 14	h = 520 km
15.	eP	A 20 18 18.5	<u>Kurile Islands</u> 43.90 N 147.77 E
	epP	A 18 31	H = 20 06 23.1 h = 62 km MAG=4.4 D = 78.41 Az = 333.2 (USCGS)
	LmH	E 51.0	PV:1.2s 8.1nm MPV=4.7
	LmV	B 58.0	LmH:20s 0.4/um MLH=4.7 LmV:15s 0.2/um MLV=4.6

August 1969

Moxa

Day	Phase	h m s	Remarks
15.	eP	A 20 59 45	<u>Kurile Islands</u> 43.25 N 147.07 E H = 20 47 47.1 h = 51 km MAG=5.0 D = 78.76 Az = 332.9 (USCGS)
15.	eP	A 21 00 06	<u>Kurile Islands</u> H = 20 48 07 (UPP) D ca. 78.4
15.	eP	A 21 03 47	<u>Kurile Islands</u> H = 20 51 46 (UPP) D ca. 78.8
15.	eP	A 21 05 14	<u>Kurile Islands</u> 43.53 N 147.59 E H = 20 53 13.9 h = normal MAG=4.2 (USCGS) D = 78.7
15.	eP1 +iP2 eS eSS eSSS LmH LmV	A 22 55 48 A 56 01 C 23 05 40 C 11.4 C 14.8 E 28.0 B 34.5	<u>Off Coast of Hokkaido, Japan</u> 42.93 E 147.55 E H = 22 43 45.5 h = normal MAG=5.1 (USCGS) D = 79.2 P1V:1.4s 37.2nm MP1V=5.2 P2V:1.4s 46.5nm LmH:20s 0.9/um MLH=5.1 LmV:16s 0.6/um MLV=5.0
15.	epP	A 23 09 19	<u>Kurile Islands</u> 43.20 N 148.07 E H = 22 57 07.2 h = normal MAG=4.0 (USCGS) D = 79.1
16.	eP	A 01 39 05	<u>Kurile Islands</u> 44.0 N 148.1 E H = 01 27 07.2 h = 45 km MAG=4.4 (USCGS) D = 78.3
16.	eP epP	A 03 26 38 A 26 51	<u>Kurile Islands</u> H = 03 14 37 (UPP) D ca. 78.8 h = 48 km

124

August 1969

Moxa

Day	Phase	h m s	Remarks
16.	eP epP LmH LmV	A 03 40 06 A 40 18.5 C 04 12.4 C 18.0	<u>Kurile Islands</u> 43.37 N 147.50 E H = 03 28 05.9 h = 40 km MAG=4.6 D = 78.79 Az = 333.1 (USCGS) PV:1.2s 16.3nm MPV=4.9 LmH(C):22s 0.3/um MLH=4.6
16.	eP	A 06 36 33	<u>Kurile Islands</u> H = 06 24 32 (UPP) D ca. 78.8 PV:1.2s 16.3nm MPV=4.9
16.	+eP epP e e	A 08 59 50.5 A 09 00 02 A 00 10 A 00 25	<u>Kurile Islands</u> 43.20 N 147.62 E H = 08 47 51.0 h = 48 km MAG=4.9 D = 78.98 Az = 333.2 (USCGS) h = 45 km PV:1.3s 26.2nm MPV=5.1 pPV:1.2s 22.4nm
16.	eP1 eP2 epP e e(S) LmH LmV	A 09 15 13 A 15 14.5 A 15 23 A 15 34 B 25(20) B 47.8 B 54.2	<u>Kurile Islands</u> 43.94 N 148.46 E H = 09 03 13.9 h = 40 km MAG=5.2 D = 78.60 Az = 333.6 (USCGS) h = 37 km P1V:1.1s 36.3nm MP1V=5.4 P2V:1.4s 32.6nm MP2V=5.1 LmH:18s 1.2/um MLH=5.2 LmV:16s 0.9/um MLV=5.2
16.	epP	A 10 15 06	<u>Kurile Islands</u> 43.85 N 147.67 E H = 10 02 57.3 h = 61 km MAG=4.2 D = 78.42 Az = 333.2 (USCGS) h = 50 km
16.	eP1 eP2 e	A 10 18 06 A 18 12 A 18 16	<u>Mid-Indian Rise</u> 24.03 S 69.61 E H = 10 05 07.4 h = normal MAG=5.5 D = 90.21 Az = 327.3 (USCGS) P1V:2.2s 38.2nm MP1V=5.3 P2V:1.5s 17.6nm MP2V=5.1

195

August 1969

Moxa

Day	Phase	h m s	Remarks
16.	-iP A	12 56 05.5	<u>Kurile Islands</u> 43.98 N 148.22 E
	LmV B	13 35.0	H = 12 44 07.8 h = 45 km MAG=4.7 D = 78.49 Az = 333.5 (USCGS) PV:1.4s 32.6nm MPV=5.2 LmV:18s 0.2 $\mu$ m MLV=4.5
16.	+iP1 A	15 27 30.8	<u>Kurile Islands</u> 43.31 N 147.61 E
	-iP2 AB	27 33	H = 15 15 32.8 h = 60 km MAG=5.7
	eipP A	27 43	D = 78.89 Az = 333.2 (USCGS)
	eS B	37 24	P1V(A):1.5s 181.0nm MP1V=5.9
	eSKS B	37 40	P2V(A):1.4s 316.0nm MP2V=6.2
	eSS C	43 00	P2V(B):7s 0.9 $\mu$ m MP2V=5.9
	eSSS C	47 15	pPV(A):1.3s 152.5nm
	LmH B	16 02.3	LmH:16.5s 3.7 $\mu$ m MLH=5.8
	LmV B	06.4	LmV:16s 2.5 $\mu$ m MLV=5.7
	16.	+iP A	17 25 43.5
Pm A		25 45	H = 17 13 44.0 h = 53 km MAG=5.4
+epP A		25 56.5	D = 79.01 Az = 333.3 (USCGS)
eS C		35 38	h = 48 km
eSS C		41.5	PV:1.4s 72.0nm MPV=5.5
LmH B		18 00.4	PmV:1.2s 158.5nm MPmV=5.9
LmV B		05.5	pPV:1.5s 126.0nm
			LmH:17s 0.9 $\mu$ m MLH=5.2 LmV:15s 0.7 $\mu$ m MLV=5.1
16.	e(P) A	21 46 28	<u>Kurile Islands</u> H = 21 34 21 (UPP)
16.	LmH B	23 32.9	<u>Kirgiziya</u> 42.0 N 72.1 E
	LmV B	34.2	H = 23 09 13 MAG=4.5 (ANUSSR) D = 41.5 LmH:15s 0.3 $\mu$ m MLH=4.3
17.	eP A	06 04 20	<u>Kurile Islands</u> 43.39 N 147.47 E
	epP A	04 32	H = 05 52 21.2 h = 48 km MAG=4.4 (USCGS)
	e A	04 38	D = 78.8

196

August 1969

Moxa

Day	Phase	h m s	Remarks
17.	eP A	08 36 49	<u>Unimak Island</u> 54.20 N 164.28 W H = 08 25 08.1 h = 50 km MAG=4.4 D = 75.47 Az = 2.7 (USCGS)
17.	ePKIKP A	10 29 29	<u>Solomon Islands</u> 7.02 S 155.62 E H = 10 10 29.8 h = 66 km MAG=5.1 D = 127.22 Az = 332.0 (USCGS) PKIKPV:1.4s 18.6nm
17.	eP1 A	11 48 45	<u>Kurile Islands</u> 43.35 N 147.98 E
	iP2 A	48 47.5	H = 11 36 45.3 h = 50 km MAG=4.6
	e A	48 57	D = 78.97 Az = 333.4 (USCGS) h = 45 km P2V:1.2s 20.4nm MP2V=5.0 pPV:1.5s 25.1nm
17.	+iP A	12 06 36	<u>Hokkaido, Japan</u> 42.66 N 141.37 E
	epP A	07 07	H = 11 54 54.9 h = 130 km MAG=5.6
	eS C	16 14	D = 77.28 Az = 329.9 (USCGS)
	LmH B	27.7	h = 127 km
	LmV B	28.6	PV:1.4s 93.0nm MPV=5.7 pPV:2.0s 111.0nm LmH:16s 0.6 $\mu$ m LmV:16s 0.6 $\mu$ m
17.	ePKP A	14 17 16	<u>New Hebrides Islands</u> 18.59 S 169.06 E
	e A	17 27	H = 13 58 08.8 h = 214 km MAG=4.7
	e A	17 30	D = 143.32 Az = 335.9 (USCGS) PKPV:1.4s 27.9nm
17.	eP A	15 01 08	<u>Kurile Islands</u>
	epP A	01 21	H = 14 49 09 (UPP) D = 78.4 h = 48 km
17.	+ePKP A	16 26 18.5	<u>Fiji Islands</u> 17.97 S 178.55 W
	e A	26 20.5	H = 16 07 43.7 h = 610 km MAG=4.9 (USCGS) D = 146.4 PKPV:1.0s 19.7nm

197

August 1969

Moxa

Day	Phase	h m s	Remarks
17.	eP1 eP2	A 18 21 21 A 21 26.5	<u>Kurile Islands</u> 43.55 N 147.48 E H = 18 09 11.5 h = 45 km MAG=4.6 D = 78.63 Az = 333.1 (USCGS) P1V:1.0s 11.8nm MP1V=4.9 P2V:1.1s 12.1nm MP2V=4.9
17.	ePKP	A 18 46 21	<u>Loyalty Islands</u> 22.18 S 170.28 E H = 18 26 38.8 h = 28 km MAG=5.2 D = 147.05 Az = 334.8 (USCGS)
17.	eP1 eP2 ePP eSKS e eS ePS eSS eSSS	A 20 25 57.5 A 26 03.5 B 29 31 C 36 25 B 36 28 C 36 47 C 37 45 C 42 25 C 46 00	<u>Gulf of California</u> 25.28 N 109.19 W H = 20 13 08.2 h = normal MAG=5.7 D = 88.15 Az = 33.2 (USCGS) P1V:1.6s 16.5nm MP1V=5.1 P2V:1.7s 36.4nm MP2V=5.4 PPV(B):8s 1.5/um MPPV(B)=6.5
17.	eP1 eP2 ePP e eS e eSS LmH LmV	A 20 27 49 AB 27 51 B 31 16 C 31 18 B 38 36 C 38 38 C 44 15 B 21 04.5 B 05.6	<u>Gulf of California</u> 25.02 N 109.53 W H = 20 14 58.9 h = normal MAG=6.1 (USCGS) D = 88.5 P1V(A):1.6s 22.0nm MP1V=5.2 P2V(A):2.0s 102.5nm MP2V=5.8 P2V(B):7.5s 1.5/um MP2V=6.4 PPV(B):10s 2.8/um MPPV=6.6 LmH:17.5s 64.3/um MLH=7.1 LmV:18s 65.8/um MLV=7.1
17.	eP	A 20 40 15.5	<u>Gulf of California</u> 25.35 N 109.17 W H = 20 27 25.2 h = 18 km MAG=5.4 D = 88.08 Az = 33.2 (USCGS) PV:1.6s 27.5nm MPV=5.3
18.	ePKIKP ePKHKP e e	B 01 23 52 A 24 01 A 24 05 A 24 09	<u>Eastern Island Cordillera</u> 56.02 S 123.37 W H = 01 04 04.7 h = normal MAG=5.1 D = 152.98 Az = 82.3 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
cont. 18.	ePP e eSS LmH LmV	C 01 27 39 C 28 25 B 47 15 B 02 25.9 B 29.8	PKHKPV:1.3s 21.8nm LmH:21.5s 3.1/um MLH=6.0 LmV:18s 3.0/um
18.	eP	A 03 10 39	<u>Gulf of California</u> 25.2N 109.8 W H = 02 57 43.0 h = normal MAG=4.6 (USCGS) D = 88.5
18.	ePKHKP	A 03 15 24	<u>Eastern Island Cordillera</u> 56.00 S 122.67 W H = 02 55 31.1 h = normal MAG=5.2 D = 152.58 Az = 81.8 (USCGS)
18.	eP Pm LmH LmV	A 03 34 45 A 34 52 B 04 15.4 B 18.0	<u>Gulf of California</u> 24.88 N 109.01 W H = 03 21 54.0 h = 22 km MAG=5.3 D = 88.39 Az = 33.2 (USCGS) PmV:2.5s 76.9nm MPmV=5.6 LmH:16s 4.3/um MLH=6.0 LmV:15s 5.4/um MLV=6.1
18.	eP1 eP2 LmH LmV	A 04 07 41 A 07 47 B 48.3 B 48.3	<u>Gulf of California</u> 24.83 N 109.06 W H = 03 54 49.8 h = normal MAG=5.3 D = 88.46 Az = 33.2 (USCGS) P2V:1.4s 18.6nm MP2V=5.6 LmH:16s 3.5/um MLH=5.9 LmV:16s 3.7/um MLV=5.9
18.	eP	A 04 17 17	<u>Panama</u> 7.53 N 80.65 W H = 04 04 37.4 h = normal MAG=4.4 (USCGS) D = 85.7
18.	eP epP e	A 05 38 17 A 38 28 A 38 43	<u>Near East Coast of Honshu, Japan</u> 34.19 N 140.68 E H = 05 25 48.8 h = 46 km MAG=4.8 (USCGS) D = 84.3 h = 40 km PV:1.4s 20.9nm MPV=5.2

August 1969

Moxa

Day	Phase	h m s	Remarks
18.	-eP e	A A 07 03 15.5 03 29	<u>Kurile Islands</u> 44.01 N 148.26 E H = 06 51 19.3 h = 60 km MAG=4.6 (USCGS) D = 78.4 h = 52 km PV:1.6s 27.3nm MPV=5.1
18.	ePKIKP	A 07 56 56	<u>New Hebrides Islands</u> 14.81 S 167.32 E H = 07 37 41.4 h = 140 km MAG=5.0 (USCGS) D = 139.2
18.	e LmH LmV	A B B 08 04 09 44.4 47.2	<u>Gulf of California</u> 24.75 N 109.10 W H = 07 51 06.9 h = 29 km MAG=4.8 (USCGS) D = 88.5 LmH:15s 1.1/um MLH=5.4 LmV:15s 1.3/um MLV=5.5
18.	eP epP	A A 11 01 44.5 01 57	<u>Kurile Islands</u> 43.56 N 147.89 E H = 10 49 44.2 h = normal MAG=4.5 (USCGS) D = 78.7 h = 48 km PV:1.2s 12.2nm MPV=4.8
18.	+iP1 -iP2 e eS LmH LmV	A A A C B B 11 55 30.5 55 32.5 55 39.5 12 05 23 34.5 34.5	<u>Kurile Islands</u> 43.82 N 148.57 E H = 11 43 30.5 h = 39 km MAG=5.4 (USCGS) D = 78.7 P1V:1.4s 65.0nm MP1V=5.5 P2V:1.3s 87.2nm MP2V=5.7 LmH:16s 1.9/um MLH=5.5 LmV:16s 1.9/um MLV=5.6
18.	ePKIKP ePKHKP eiPKP2	A A A 14 29 35 29 46 30 07	<u>Kermadec Islands</u> 29.12 S 177.61 W H = 14 09 45.9 h = 60 km MAG=5.3 (USCGS) D = 157.3 PKP2V:1.2s 24.4nm
18.	+eP e e	A A A 15 06 23 06 30 06 38	<u>West Pakistan</u> 29.95 N 67.54 E H = 14 57 57.1 h = 15 km MAG=5.0 (USCGS) D = 46.2 PV:1.3s 65.5nm MPV=5.5

August 1969

Moxa

Day	Phase	h m s	Remarks
18.	eP	A 16 41 30	<u>Kurile Islands</u> 44.48 N 148.06 E H = 16 29 34.0 h = normal MAG=4.4 (USCGS) D = 77.8
18.	eP	A 18 41 25	<u>Kurile Islands</u> 43.98 N 148.37 E H = 18 29 27.6 h = 50 km MAG=4.7 (USCGS) D = 78.5
19.	ePKHKP ePKP2	A A 01 24 10 24 18	<u>Fiji Islands</u> 21.78 S 179.66 W H = 01 05 29.9 h = 649 km MAG=4.4 (USCGS) D = 149.8 PKHKPV:0.8s 19.2nm PKP2V:1.2s 16.3nm
19.	e e e LmH LmV	A A A B B 01 52 40 52 44.5 53 03.5 02 38.7 46.4	<u>Sunda Strait</u> 6.12 S 105.32 E H = 01 39 08.3 h = 50 km MAG=5.1 (USCGS) D = 96.4 LmH:21s 1.9/um MLH=0.7 LmV:16s 0.7/um MLV=5.3
19.	e(PKP) e	A A 02 32 04 32 16	<u>Solomon Islands</u> 10.39 S 161.53 E H = 02 12 48.5 h = 70 km MAG=5.0 (USCGS) D = 132.8 PKPV:1.0s 17.7nm
19.	ePKHKP	A 08 12 46.5	<u>Fiji Islands</u> 20.37 S 177.85 W H = 07 53 59.3 h = 549 km MAG=4.7 (USCGS) D = 148.9 PKHKPV:1.1s 20.2nm
19.	-iP1 +eiP2 +iP3 -iP4 e(pP) ePP e eiS iSKS	AB A A A C C B C C 09 01 54.5 01 59.5 02 03.8 02 07.5 02 11 04 50 04 54 11 47 11 59	<u>Kurile Islands</u> 43.77 N 148.17 E H = 08 49 54.8 h = 39 km MAG=5.7 (USCGS) D = 78.8 P1V(A):1.9s 265.0nm MP1V=5.9 P1V(B):5s 2.5/um MP1V=6.5 P2V(A):1.9s 250.0nm MP2V=5.9 P3V(A):1.2s 167.0nm MP3V=5.9 P4V(A):1.7s 363.0nm MP4V=6.2 LmH:15s 19.8/um MLH=6.6

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
19.	eSS C	09 17 00	LmV:15s 18.9/um MLV=6.6
	LmH B	40.6	
	LmV B	41.5	
19.	eiP A	09 06 33.5	<u>Kurile Islands</u>
	ipP A	06 45	H = 08 54 34 (UPP) D ca. 78.5 PV:1.2s 20.3nm MPV=5.1 pPV:1.0s 27.6nm
19.	eP A	09 42 15.5	<u>Kurile Islands</u> 43.56 N 148.22 E
	epP A	42 24	H = 09 30 13.5 h = 45 km MAG=4.6 (USCGS) D = 78.8 h = 32 km epPV:1.8s 33.8nm
19.	eP A	10 30 49	<u>Kurile Islands</u> 43.80 N 148.06 E
			H = 10 18 50.7 h = 45 km MAG=4.5 D = 78.59 Az = 333.4 (USCGS)
19.	eP A	12 19 00	<u>Kurile Islands</u> 44.09 N 148.84 E
			H = 12 06 59.6 h = 43 km MAG=4.6 (USCGS) D = 78.5
19.	e(pP) A	15 12 26.5	<u>Kurile Islands</u> 43.57 N 148.14 E
			H = 15 00 16.8 h = 64 km MAG=4.4 (USCGS) D = 78.7
19.	ePKHKP A	17 46 20	<u>South Pacific Cordillera</u>
	e A	46 28	56.67 S 142.05 W
	ePKP2 A	46 50	H = 17 26 07.3 h = normal MAG=4.4 (USCGS)
	ePP B	50 48	D = 163.3
	e B	51 11	PKHKPV:1.6s 21.9nm
	LmH B	18 50.5	LmH:22s 1.2/um MLH=5.6
	LmV B	50.5	LmV:22s 0.7/um
19.	eP A	23 48 34	<u>Kurile Islands</u> 43.17 N 147.28 E
	LmH C	24 24.0	H = 23 36 34.2 h = 50 km MAG=4.3 (USCGS)
	LmV C	28.4	D = 78.8

August 1969

Moxa

Day	Phase	h m s	Remarks
20.	eP A	01 39 49	<u>Kurile Islands</u> 44.03 N 148.60 E
			H = 01 27 49.9 h = 43 km MAG=4.2 (USCGS) D = 78.5
20.	eP A	05 46(23)	<u>Kurile Islands</u> 43.44 N 147.45 E
	epP A	46 36	H = 05 34 23.2 h = 54 km MAG=4.2 (USCGS) D = 78.7 h = 48 km
20.	+iP1 A	08 01 49	<u>Kurile Islands</u> 47.92 N 153.63 E
	+iP2 AB	01 51	H = 07 50 05.5 h = 73 km MAG=5.8 (USCGS)
	ei C	02 15	D = 76.5
	e B	02 29	P1V(A):1.5s 527.0nm MP1V=6.2
	ePP A	04 40	P2V(A):1.5s 1530.0nm MP2V=6.7
	eS C	11 22	P2V(B):2.0s 3.1/um MP2V=6.8
	eSKS B	11 55	LmH:18s 4.6/um MLH=5.8
	ePS B	12 15	LmV:16s 2.3/um MLV=5.6
	e B	12 35	
	e C	22.0	
	LmH B	35.8	
	LmV B	41.2	
20.	e(pP) A	10 24 13	<u>Kurile Islands</u> 43.8 N 147.7 E
			H = 10 12 05.9 h = 50 km MAG=4.4 (USCGS) D = 78.3
20.	ePP A	17 42 47.5	<u>New Britain Region</u> 5.3 S 149.7 E
	LmV B	18 34.6	H = 17 22 13.7 h = 27 km MAG=4.8 (USCGS)
	LmH B	35.0	D = 122.8 LmV:23s 0.8/um MLV=5.3 LmH:21s 1.1/um MLH=5.5
21.	eP1 A	00 40 38	<u>Kurile Islands</u> 43.21 N 148.20 E
	eP2 A	40 39.5	H = 00 28 36.9 h = 50 km MAG=4.8 (USCGS)
	epP1 A	40 49	D = 79.2 h = 40 km
	epP2 A	40 51	P1V:1.2s 24.4nm MP1V=5.1
	eS C	50 40	P2V:1.2s 32.5nm MP2V=5.2
	LmV B	01 21.5	pP1V:1.0s 25.6nm
	LmH B	21.6	pP2V:1.4s 41.9nm
			LmV:16s 1.2/um MLV=5.4
			LmH:16s 1.4/um MLH=5.4

August 1969

Moxa

Day	Phase	h m s	Remarks	
21.	e(pP) e	A A	02 08 28 08 47	<u>Crete</u> 35.05 N 26.64 E H = 02 03 54.2 h = 55 km MAG=4.4 D = 19.03 Az = 329.6 (USCGS)
21.	eP1 eP2 epP LmV LmH	A A A B B	02 56 03.5 56 05.5 56 14 03 35.7 36.6	<u>Kurile Islands</u> 43.03 N 147.32 E H = 02 44 01.3 h = 36 km MAG=5.0 (USCGS) D = 79.0 P1V:1.2s 20.3nm MP1V=5.0 P2V:1.4s 30.2nm MP2V=5.1 pPV:1.3s 39.4nm LmV:16s 0.6/um MLV=5.1 LmH:17s 0.7/um MLH=5.1
21.	eP epP ePP eS LmH LmV	A A A C B B	03 44 12.5 44 24 47 08 54 08 04 16.5 24.0	<u>Kurile Islands</u> 43.19 N 147.02 E H = 03 32 11.5 h = 35 km MAG=5.1 (USCGS) D = 78.7 h = 45 km PV:1.4s 23.2nm MPV=5.1 PPV:2.0s 38.5nm MPPV=5.2 LmH:23s 3.2/um MLH=5.6 LmV:16s 2.1/um MLV=5.6
21.	eP epP	A A	04 59 29 59 40	<u>Off Coast of Hokkaido, Japan</u> 42.88 N 147.23 E H = 04 47 27.2 h = 39 km MAG=4.6 (USCGS) D = 79.2 h = 40 km PV:1.4s 23.2nm MPV=5.0 pPV:1.3s 13.1nm
21.	eP epP	A A	05 22 35 22 46.5	<u>Kurile Islands</u> 43.14 N 147.28 E H = 05 10 34.0 h = normal MAG=4.5 (USCGS) D = 79.0 h = 40 km
21.	eP e	A A	07 33(08) 33 19.5	<u>Near Islands, Aleutian Is.</u> 51.61 N 174.34 E H = 07 21 21.7 h = 87 km MAG=4.4 D = 77.07 Az = 348.8 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks	
21.	-eiP e	A A	08 03 28 03 45	<u>Kurile Islands</u> 43.83 N 147.06 E H = 07 51 30.2 h = 39 km MAG=4.8 (USCGS) D = 78.2 PV:1.2s 28.5nm
21.	eP epP eS LmH LmV	A A C B B	13 36 01.5 36 10.5 45 56 14 14.8 15.6	<u>Kurile Islands</u> 43.64 N 148.06 E H = 13 24 01.9 h = 44 km MAG=5.5 D = 78.74 Az = 333.4 (USCGS) PV:2.3s 170.5nm MPV=5.7 pPV:2.0s 188.0nm LmH:16s 2.0/um MLH=5.6 LmV:16s 2.2/um MLV=5.6
21.	eP	A	13 58 57	<u>Near East Coast of Kamchatka</u> 54.13 N 160.58 E H = 13 47 35.7 h = 75 km MAG=5.2 (USCGS) D = 72.4
21.	eP eS ePS LmH LmV	A C C B B	14 38 54 49 56 50 51 15 20.6 20.7	<u>Baja California</u> 23.17 N 110.64 W H = 14 25 51.5 h = 15 km MAG=5.3 (USCGS) D = 90.5 PV:2.0s 25.6nm MPV=5.2 LmH:16.5s 3.9/um MLH=5.9 LmV:17s 4.0/um MLV=5.9
21.	ePKIKP ePKHKP epPKP	A A A	19 41 19.5 41 21.5 42 55	<u>Fiji Islands</u> 18.14 S 177.73 W H = 19 22 20.9 h = 385 km MAG=4.0 (USCGS) D = 146.7 h = 390 km
21.	LmH LmV	B B	22 04.4 04.4	<u>Off W. Coast of Baja California</u> 22.9 N 110.8 W H = 21 09 45.6 h = normal MAG=4.7 (USCGS) D = 90.9 LmH:16s 0.7/um MLH=5.2 LmV:17s 0.8/um MLV=5.3
22.	eP1 eP2	A A	04 52 27 52 30	<u>Kurile Islands</u> 43.08 N 148.28 E H = 04 40 26.1 h = 60 km MAG=4.8 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
22.	e	A 04 52 40	D = 79.3
	eS	B 05 02 25	P1V:1.6s 16.5nm MP1V=4.8
	LmH	E 31.8	P2V:1.2s 22.4nm MP2V=5.1
	LmV	B 32.9	LmH:13.5s 2.0/um MLH=5.6 LmV:16s 2.3/um MLV=5.6
22.	eP	A 05 42 17.5	<u>Kurile Islands</u> 43.57 N 147.59 E
	eipP	A 42 31	H = 05 30 19.2 h = 50 km MAG=4.3 (USCGS) D = 78.6 h = 50 km
22.	eP	A 07 24 25	<u>Kurile Islands</u> 43.78 N 146.92 E H = 07 12 30.9 h = 59 km MAG=4.9 (USCGS) D = 78.1
22.	ePKHKP	A 08 00 00	<u>Fiji Islands</u> 20.86 S 178.74 W
	ePKP2	A 00 07	H = 07 41 17.3 h = 592 km MAG=4.8 (USCGS)
	e	A 00 13	D = 149.3 PKHKPV:1.2s 26.4nm PKP2V:1.0s 11.8nm
22.	eS	C 10 28 36	<u>Baja California</u> 23.3 N 110.4 W
	ePS	C 29 40	H = 10 04 36.4 h = 11 km MAG=5.1 (USCGS)
	LmH	B 59.2	D = 90.3
	LmV	B 59.3	LmH:16s 4.2/um MLH=6.0 LmV:16s 4.7/um MLV=6.0
22.	eP	A 10 33 25	<u>Ascension Island</u> 6.84 S 12.24 W
	e	A 33 34	H = 10 23 14.9 h = normal MAG=4.7
	eX	A 33 39	D = 60.86 Az = 17.1 (USCGS) XV:1.4s 32.6nm
22.	ePKIKP	A 16 04 04	<u>Solomon Islands</u> 7.55 S 156.01 E
	e	A 04 19	H = 15 45 04.7 h = 80 km MAG=5.1
	LmH	E 17 03.6	D = 127.87 Az = 332.0 (USCGS)
	LmV	B 04.0	LmH:20s 0.4/um LmV:20s 0.4/um

206

August 1969

Moxa

Day	Phase	h m s	Remarks
22.	+iPKP	A 17 53 41	<u>Tonga Islands</u> 16.10 S 174.13 W
	ei	A 53 44.5	H = 17 34 20.1 h = 152 km MAG=4.9 (USCGS)
	e	A 53 48.5	D = 145.3 h = 153 km
	e	A 53 51.5	PV:1.1s 88.7nm
	e	A 54 12	pPV:1.3s 26.2nm
	epP	A 54 22	
22.	eP	A 23 41 46	<u>Kurile Islands</u> H = 23 29 46 (UPP) D ca. 78.5 PV:1.5s 15.1nm MPV=4.9
22.	ePKP	A 24 13 39	<u>New Hebrides Islands</u> 18.36 S 168.41 E H = 23 54 11.9 h = 41 km MAG=4.7 D = 142.86 Az = 335.4 (USCGS)
23.	ePKP	A 02 02 26	<u>Tonga Islands</u> 15.50 S 173.04 W H = 01 42 52.8 h = normal MAG=5.0 (USCGS) D = 144.8
23.	eP	A 03 06 32	<u>Off East Coast of Honshu, Japan</u>
	epP	A 06 42	39.72 N 144.26 E
	e	A 06 51	H = 02 54 18.9 h = 37 km MAG=5.4 D = 80.90 Az = 331.7 (USCGS) PV:0.8s 9.6nm MPV=4.9 pPV:1.2s 14.2nm
23.	-eP	A 06 51 36.5	<u>Off East Coast of Honshu, Japan</u>
	epP	A 51 48.5	39.78 N 144.23 E
	LmV	E 07 24.3	H = 06 39 24.5 h = 33 km MAG=5.2 (USCGS)
	LmH	B 27.6	D = 80.8 h = 45 km PV:1.4s 39.5nm MPV=5.3 pPV:1.3s 30.6nm LmV:17s 0.5/um MLV=5.0 LmH:17s 0.8/um MLH=5.2
23.	eP1	A 06 59 50	<u>Kurile Islands</u> 43.97 N 148.22 E
	eP2	A 59 54	H = 06 47 49.7 h = 35 km MAG=4.8 (USCGS)
	eP3	A 07 00 00	D = 78.5

207



August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
23.	e	A 07 00 17	P1V:0.7s 11.5nm MP1V=5.1 P2V:1.0s 15.8nm MP2V=5.1 P3V:1.5s 55.3nm MP3V=5.4
23.	eP	A 13 39 40	<u>Kurile Islands</u> 43.74 N 147.58 E H = 13 27 42.2 h = 51 km MAG=4.0 D = 78.49 Az = 333.2 (USCGS)
23.	epP	A 15 05 13	<u>Kurile Islands</u> 43.39 N 147.67 E H = 14 53 01.5 h = 60 km MAG=4.0 D = 78.83 Az = 333.2 (USCGS)
23.	eP	A 19 23 36.5	<u>Iran</u> 33.95 N 58.90 E H = 19 16 17.7 h = 32 km MAG=5.1 D = 38.04 Az = 310.6 (USCGS)
23.	eSS LmV	C 19 38 25 B 20 07.3	<u>South of Africa</u> 53.5 S 25.9 E H = 19 05 11.8 h = normal MAG=5.2 (USCGS) D = 104.4 LmV:18s 0.4/um MLV=5.0
23.	eP	A 20 09 00.5	<u>Off East Coast of Honshu, Japan</u> 39.68 N 144.31 E H = 19 56 47.0 h = 35 km MAG=5.0 (USCGS) D = 80.9
24.	eP1 eP2 epP	A 03 45 57.5 A 45 58.5 A 46 09	<u>Kurile Islands</u> 43.38 N 147.45 E H = 03 33 58.6 h = 60 km MAG=4.6 (USCGS) D = 78.8 h = 43 km P2V:1.2s 18.3nm MP2V=5.0 pPV:1.0s 18.7nm
24.	ePKP2	A 09 51 51	<u>Baleny Islands Region</u> 61.3 S 154.2 E H = 09 31 26.2 h = 15 km MAG=5.1 (USCGS) D = 156.8 PKP2V:1.5s 10.0nm

August 1969

Moxa

Day	Phase	h m s	Remarks
24.	-eP LmH LmV	A 22 15 16 B 51.4 B 54.3	<u>Off East Coast of Honshu, Japan</u> 39.80 N 144.27 E H = 22 03 03.8 h = 32 km MAG=5.4 (USCGS) D = 80.8 PV:1.8s 81.0nm MPV=5.4 LmH:18s 1.1/um MLH=5.3 LmV:16s 0.8/um MLV=5.3
25.	eP epP	A 01 18 34.5 A 18 44	<u>Off East Coast of Honshu, Japan</u> 39.69 N 144.44 E H = 01 06 20.1 h = 35 km MAG=4.9 (USCGS) D = 81.0 h = 35 km PV:1.6s 16.5nm MPV=4.8
25.	eP epP	A 01 24 19 A 24 29	<u>Off East Coast of Honshu, Japan</u> 39.56 N 144.52 E H = 01 12 05.1 h = 35 km MAG=4.7 (USCGS) D = 81.1 h = 37 km PV:1.5s 12.6nm MPV=4.7 pPV:1.4s 18.6nm
25.	e	A 18 19 33	<u>Kurile Islands</u> 43.89 N 148.37 E H = 18 07 31.1 h = 65 km MAG=4.4 D = 78.61 Az = 333.6 (USCGS)
25.	eP	A 20 53 41	<u>Off East Coast of Honshu, Japan</u> 39.54 N 144.36 E H = 20 41 27.0 h = normal MAG=4.6 D = 81.10 Az = 331.8 (USCGS)
25.	LmH LmV	C 22 36.3 C 36.5	<u>Molucca Passage</u> 0.4 N 126.0 E H = 21 32 13.5 h = normal MAG=5.1 (USCGS) D = 105.0 LmH(C):28s 0.4/um MLH=4.8 LmV(C):24s 0.7/um MLV=5.2
26.	eP1 eP2 e	A 02 18 11 A 18 16.5 A 18 22	<u>Albania</u> 41.77 N 20.09 E H = 02 15 38.8 h = 42 km MAG=4.9 D = 10.64 Az = 329.5 (USCGS)

August 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
26.	e	A 02 18 36.5	P1V:1.0s 23.6nm
	eSn	A 20 09	P2V:1.4s 51.5nm
	i	A 20 38	LmH:14s 4.4/um MLH=4.3
	i	A 20 45	LmV:9s 2.1/um
	e(Sg)	A 21 25	
	LmH	B 21.8	
	LmV	B 22.8	
26.	eP	A 03 31 28	<u>Tadzhik SSR</u> 37.11 N 72.70 E H = 03 23 19.2 h = 65 km MAG=4.7 D = 44.81 Az = 307.8 (USCGS)
26.	ePKP	A 09 46 21	<u>Fiji Islands</u> 18.03 S 176.25 W H = 09 26 39.8 h = normal MAG=4.8 D = 146.86 Az = 350.8 (USCGS) PKPV:1.6s 38.5nm XV:1.4s 32.5nm
	eiX	A 46 24	
26.	ePKIKP	A 17 16 55.5	<u>New Britain</u> 5.81 S 151.19 E H = 16 58 02.3 h = 59 km MAG=5.6 D = 124.04 Az = 330.1 (USCGS) h = 41 km PKIKPV:1.6s 71.5nm pPKIKPV:1.4s 41.8nm LmH:24s 2.0/um MLH=5.7 LmV:19s 1.2/um MLV=5.6
	epPKIKP	A 17 07	
	LmH	B 18 09.5	
	LmV	B 13.4	
26.	ePKP	A 20 47 37	<u>Tonga Islands</u> 15.41 S 173.30 W H = 20 28 05.6 h = 55 km MAG=5.4 D = 144.63 Az = 354.6 (USCGS) PKPV:2.0s 34.2nm LmH(C):16s 0.3/um MLH=5.1 LmV(C):17s 0.5/um
	LmH	C 21 34.7	
	LmV	C 34.7	
26.	eP	A 20 55 07.5	<u>Kurile Islands</u> 43.51 N 147.69 E H = 20 43 04.1 h = 21 km MAG=4.6 D = 78.73 Az = 333.2 (USCGS)
	e(pP)	A 55 20	

210

August 1969

Moxa

Day	Phase	h m s	Remarks
26.	eP1	A 22 45 43	<u>Iceland</u> 66.53 N 17.87 W
	eP2	A 45 45	H = 22 40 47.9 h = 3 km MAG=4.3 D = 21.79 Az = 122.4 (USCGS) P2V:1.4s 14.0nm MP2V=4.2
26.	+eP	A 22 52 14.8	<u>Iceland</u> 66.32 N 17.73 W
	e	A 52 17	H = 22 47 25.9 h = normal MAG=4.8
	e	A 52 19	D = 21.63 Az = 122.2 (USCGS)
	LmH	B 23 00.6	PV:1.2s 36.6nm MPV=4.6
	LmV	B 03.7	LmH:19s 1.0/um MLH=4.3 LmV:12s 0.8/um MLV=4.5
26.	eP1	A 23 54 01	<u>Iceland</u> 66.40 N 18.33 W
	eP2	A 54 03	H = 23 49 08.8 h = normal MAG=4.5 D = 21.88 Az = 121.5 (USCGS) P2V:1.4s 23.3nm MP2V=4.4
27.	eP	A 00 22 18	<u>Kurile Islands</u> 43.56 N 147.51 E
	epP	A 22 28.5	H = 00 10 16.9 h = normal MAG=4.6 D = 78.63 Az = 333.1 (USCGS) h = 40 km
27.	eP1	A 01 22 27.5	<u>Kurile Islands</u> 43.62 N 147.46 E
	eP2	A 22 30.5	H = 01 10 30.1 h = 60 km MAG=5.0
	epP	A 22 39	D = 78.55 Az = 333.1 (USCGS)
	LmH	B 54.9	h = 43 km
	LmV	B 02 01.4	P1V:1.5s 30.2nm MP1V=5.1 P2V:1.0s 19.6nm MP2V=5.1 pPV:1.8s 50.6nm LmH:20s 2.4/um MLH=5.5 LmV:15s 1.1/um MLV=5.3
27.	eP	A 01 24 53.5	<u>Kurile Islands</u> 43.39 N 147.73 E
	epP	A 25 06	H = 01 12 55.2 h = 60 km MAG=5.1 D = 78.85 Az = 333.3 (USCGS) PV:1.3s 24.0nm MPV=5.1 pPV:1.4s 20.9nm

211

August 1969

Moxa

Day	Phase	h m s	Remarks
27.	eP epP	A 01 40 34.5 A 40 47	<u>Kurile Islands</u> 43.62 N 147.63 E H = 01 28 34.1 h = normal MAG=4.7 D = 78.62 Az = 333.2 (USCGS) h = 45 km PV:1.4s 18.6nm MPV=5.0 pPV:1.1s 14.1nm
27.	eP e	A 02 43 20 A 43 41	<u>Kurile Islands</u> 43.66 N 147.49 E H = 02 31 20.7 h = 40 km MAG=4.6 D = 78.53 Az = 333.1 (USCGS) PV:1.3s 15.3nm MPV=4.9
27.	eP1 +iP2 epP LmH LmV	A 03 38 13.5 A 38 14.5 A 38 27 B 04 10.8 B 17.8	<u>Kurile Islands</u> 43.74 N 147.60 E H = 03 26 16.1 h = 50 km MAG=5.0 D = 78.50 Az = 333.2 (USCGS) h = 50 km P2V:1.4s 60.5nm MP2V=5.5 pPV:1.4s 41.8nm LmH:21s 2.9/um MLH=5.6 LmV:14s 1.0/um MLV=5.4
27.	e(pP)	A 03 39 07	<u>Kurile Islands</u> H = 03 26 56 (UPP)
27.	+eP1 eP2 eP3	A 03 44 36 A 44 44 A 44 48.5	<u>Kurile Islands</u> 43.71 N 147.44 E H = 03 32 37.7 h = 50 km MAG=4.9 D = 78.47 Az = 333.1 (USCGS) P1V:1.3s 30.6nm MPV=5.3 P2V:1.5s 30.2nm P3V:1.5s 35.2nm
27.	eP LmH LmV	A 19 36 12 B 20 27.0 B 27.0	<u>Bonin Islands</u> 28.68 N 143.81 E H = 19 23 10.6 h = 20 km MAG=5.4 D = 90.43 Az = 331.9 (USCGS) PV:1.6s 24.7nm MPV=5.1 LmH:15s 0.5/um MLH=5.1 LmV:14s 0.5/um MLV=5.1

August 1969

Moxa

Day	Phase	h m s	Remarks
27.	eP	A 20 03 26	<u>Off East Coast of Honshu, Japan</u> 34.90 N 141.11 E H = 19 51 02.7 h = 67 km MAG=5.0 D = 83.90 Az = 330.4 (USCGS) PV:1.6s 27.5nm MPV=5.2
28.	eP ePP e eS eSS LmH LmV	A 04 06 47.5 A 08 35 C 08 38 C 13 20 C 16 38 B 24.2 B 28.5	<u>Tadzhik-Sinkiang Border Region</u> 39.06 N 73.62 E H = 03 58 34.8 h = 20 km MAG=5.1 D = 44.23 Az = 306.3 (USCGS) PV:1.6s 52.1nm MPV=5.0 LmH:16s 9.7/um MLH=5.8 LmV:14s 3.8/um MLV=5.5
28.	eP	A 04 14 35	<u>Tadzhik-Sinkiang Border Region</u> 39.23 N 73.94 E H = 04 06 21.9 h = 26 km MAG=5.1 D = 44.33 Az = 306.2 (USCGS) PV:1.6s 16.5nm MPV=4.5
28.	eP	A 04 56 19	<u>Kurile Islands</u> H = 04 44 19 (UPP) D ca. 78.6
28.	ePKIKP ePKHKP e ePKP2 e ePP e(SKSP) eSS LmV LmH	A 14 14 11 A 14 19 C 14 30 A 14 55 A 14 58 C 18 28 C 18 50 C 29 10 C 30 40 B 15 42.0 B 50.9	<u>Kermadec Islands</u> 31.47 S 177.88 W H = 13 54 11.0 h = 29 km MAG=5.3 D = 159.58 Az = 342.5 (USCGS) LmV:16s 2.7/um LmH:17s 3.8/um MLH=6.2
28.	e(pP)	A 15 05 57.5	<u>Kurile Islands</u> H = 14 53 50 (UPP) pPV:1.0s 11.8nm

August 1969

Moxa

Day	Phase	h m s	Remarks
28.	e	A 16 28 00	<u>Kurile Islands</u> 43.66 N 147.66 E H = 16 15 47.2 h = normal MAG=4.1 D = 78.59 Az = 333.2 (USCGS)
28.	ePKHKP	A 17 10 14	<u>Kermadec Islands</u> 31.75 S 177.75 W H = 16 49 56.9 h = 23 km MAG=5.1 D = 159.88 Az = 342.5 (USCGS)
	eiPKP2	A 10 34	
	e	A 10 47.5	
	LmH	C 18 38.6	PKP2V:1.6s 55.0nm
	LmV	C 43.0	LmH(C):16s 0.6/um MLH=5.4 LmV(C):19s 0.6/um
28.	eP	A 21 47 23	<u>Kurile Islands</u> 43.47 N 147.66 E H = 21 35 23.4 h = 52 km MAG=4.9 D = 78.75 Az = 333.2 (USCGS)
	epP	A 47 35	
	eS	C 57 16	
	LmH	B 22 19.9	PV:1.5s 50.1nm MPV=5.4
	LmV	B 27.0	SH(C):14s 0.7/um MSH=5.5 LmH:21s 4.5/um MLH=5.8 LmV:17s 1.6/um MLV=5.4
29.	eP	A 01 14 05	<u>Kurile Islands</u> 43.62 N 147.48 E H = 01 02 02.8 h = 35 km MAG=4.0 D = 78.57 Az = 333.1 (USCGS)
	epP	A 14 15.5	pPV:1.0s 12.3nm
29.	eP1	A 03 21 08	<u>Kurile Islands</u> 43.40 N 147.59 E H = 03 09 10.4 h = 65 km MAG=4.6 D = 78.79 Az = 333.2 (USCGS)
	eP2	A 21 10.5	
	epP	A 21 21	
	ei	A 21 33	P1V:1.4s 20.9nm MP1V=5.0
	LmH	B 53.5	P2V:1.2s 28.5nm MP2V=5.2
	LmV	C 04 00.8	pPV:1.2s 36.6nm LmH(B):20s 0.6/um MLH=5.0 LmV(C):18s 0.5/um MLV=4.9
29.	eP	A 10 13 35	<u>Burma</u> 26.32 N 96.14 E H = 10 02 49.6 h = 73 km MAG=5.4 D = 66.77 Az = 316.4 (USCGS)
	e	A 13 52.5	
	e	A 13 57	
	e	A 14 09	PV:0.8s 11.5nm
	e	A 14 13	

August 1969

Moxa

Day	Phase	h m s	Remarks
29.	ePKIKP	A 17 43 08.5	<u>Tonga Islands</u> 17.9 S 175.2 W H = 17 24 04.9 h = 270 km MAG=4.5 (USCGS) D = 142.6
	e	A 43 17	
30.	LmV	C 02 27.5	<u>Galapagos Islands</u> 1.1 S 90.8 W H = 01 26 29.5 h = normal MAG=5.5 (USCGS) D = 98.7 LmV(C):17s 0.2/um MLV=4.8 LmH(C):17s 0.2/um MLH=4.8
	LmH	C 27.7	
30.	eP	A 07 04 34	<u>Kurile Islands</u> 43.62 N 147.86 E H = 06 52 34.7 h = 38 km MAG=5.0 D = 78.69 Az = 333.3 (USCGS) h = 45 km PV:1.4s 23.3nm MPV=5.1 pPV:1.3s 17.5nm
	epP	A 04 42	
	e	A 04 46	
30.	eP1	AB 07 23 40	<u>Kurile Islands</u> 43.69 N 147.76 E H = 07 11 39.5 h = normal MAG=5.4 D = 78.59 Az = 333.3 (USCGS)
	eiP2	E 23 49	
	ipP	A 23 51	
	eS	C 33 35	h = 40 km
	eSS	C 38 50	P1V(A):1.2s 89.5nm MP1V=5.8
	e	C 39 24	P1V(B):4s 2.5/um MP1V=6.7
	LmH	B 08 03.3	P2V(B):8s 2.8/um MP2V=6.3
	LmV	B 03.3	LmH:16s 19.0/um MLH=6.5 LmV:16s 12.0/um MLV=6.4
30.	eP	A 07 34 11	<u>Kurile Islands</u> 43.63 N 147.72 E H = 07 22 10.9 h = 45 km MAG=4.6 D = 78.63 Az = 333.2 (USCGS) h = 40 km pPV:1.3s 19.7nm
	epP	A 34 21.5	
30.	epP	A 07 40 17	<u>Kurile Islands</u> H = 07 28 07 (UPP)

August 1969

Moxa

Day	Phase	h m s	Remarks
30.	+eP	A 07 53 43	<u>Kurile Islands</u> 43.66 N 147.94 E
	epP	A 53 55	H = 07 41 43.4 h = normal MAG=5.0 D = 78.68 Az = 333.4 (USCGS) h = 45 km PV:1.3s 34.9nm MPV=5.3 pPV:1.4s 32.6nm
30.	+iP	A 08 06 27.5	<u>Kurile Islands</u> 43.39 N 146.53 E
	i	A 06 30.5	H = 07 54 29.6 h = 43 km MAG=5.5
	ipP	A 06 37.5	D = 78.45 Az = 332.6 (USCGS) PV:1.0s 63.0nm MPV=5.7 pPV:1.2s 40.6nm
30.	+iP1	A 08 40 06.7	<u>Kurile Islands</u> 43.60 N 147.82 E
	eiP2	A 40 08.5	H = 08 28 06.5 h = normal MAG=5.4
	ipP	A 40 18	D = 78.69 Az = 333.3 (USCGS)
	eS	C 50 00	P1V:1.5s 65.3nm MP1V=5.5
	LmH	B 09 12.7	P2V:2.0s 137.0nm MP2V=5.7
	LmV	B 18.8	LmH:21s 14.2 $\mu$ m MLH=6.2 LmV:15s 5.0 $\mu$ m MLV=6.0
30.	eP	A 08 49 21.5	<u>Kurile Islands</u> 43.84 N 147.96 E H = 08 37 21.0 h = normal MAG=4.7 D = 78.53 Az = 333.4 (USCGS)
30.	eP	A 08 57 04.5	<u>Kurile Islands</u>
	epP	A 57 14	H = 08 45 05 (UPP) D ca. 78.6 h = 37 km
30.	eP	A 09 00 06	<u>Kurile Islands</u> 43.99 N 147.86 E
	epP	A 01 18	H = 08 48 08.2 h = 40 km MAG=4.6 D = 78.36 Az = 333.3 (USCGS) PV:1.3s 13.1nm MPV=4.9 pPV:1.2s 16.3nm
30.	eP	A 09 00 36	<u>Kurile Islands</u> H = 08 48 39 (UPP)

August 1969

Moxa

Day	Phase	h m s	Remarks
30.	epP	A 10 14 14	<u>Kurile Islands</u> 43.89 N 147.97 E H = 10 02 01.6 h = 39 km MAG=4.5 D = 78.49 Az = 333.4 (USCGS)
30.	eP	A 10 23 41	<u>Kurile Islands</u> H = 10 11 42 (UPP) D ca. 78.4
30.	epP	A 11 38 17	<u>Kurile Islands</u> H = 11 26 06 (UPP)
30.	ePKIKP	A 13 10 34	<u>New Britain</u> 5.66 S 148.26 E H = 12 51 58.0 h = 167 km MAG=5.2 D = 122.43 Az = 328.8 (USCGS)
30.	eP	A 18 52 53	<u>Kurile Islands</u> 43.81 N 147.88 E
	epP	A 53 04	H = 18 40 52.1 h = 25 km MAG=4.5 D = 78.53 Az = 333.3 (USCGS) h = 40 km
31.	LmH	C 10 54.0	<u>South Sandwich Islands Region</u>
	LmV	C 55.0	55.2 S 24.9 W H = 09 52 56.8 h = 43 km MAG=4.3 (USCGS) D = 109.7 LmV(C):18s 0.2 $\mu$ m MLV=4.6
31.	ePKP	A 11 12 03.5	<u>New Hebrides Islands</u> 18.77 S 169.00 E
	ePP	A 15 25	H = 10 52 55.3 h = 207 km MAG=5.0 D = 143.47 Az = 335.7 (USCGS) PKPV:1.4s 65.0nm
31.	eP	A 13 18 20.5	<u>Southern Sumatra</u> 4.51 S 102.33 E H = 13 05 08.6 h = 64 km MAG=5.5 D = 93.91 Az = 320.3 (USCGS) PV:1.2s 16.3nm MPV=5.2

August 1969

Moxa

Day	Phase	h m s	Remarks
31.	ePKHKP ePKP2	A 21 07 23.5 A 07 27	<u>Fiji Islands</u> 19.78 S 177.86 W H = 20 48 22.6 h = 400 km MAG=4.5 D = 148.29 Az = 348.5 (USCGS) PKHKPV:1.5s 10.0nm PKP2V:1.3s 17.5nm
31.	eP epP	A 22 29 01 A 29 11.5	<u>Kurile Islands</u> 43.40 N 146.73 E H = 22 17 04.7 h = 59 km MAG=4.7 D = 78.51 Az = 332.7 (USCGS) PV:0.7s 17.2nm MPV=5.2 pPV:1.6s 22.0nm

September 1969

Moxa

Day	Phase	h m s	Remarks
1.	ePP LmV	C 00 03 00 B 42.8	<u>Near Coast of Guerrero, Mexico</u> 17.7 N 101.5 W H = 23 46 33.4 h = 72 km MAG=5.0 (USCGS) D = 90.3 LmV:18s 0.4/um MLV=4.9
1.	ePKP e	A 05 42 13 A 42 23	<u>Tonga Islands</u> 20.45 S 174.40 W H = 05 22 25.9 h = normal MAG=4.3 D = 149.50 Az = 352.5 (USCGS) eV(A):1.6s 19.2nm
1.	ePKP2 e LmH	A 08 35 09 A 35 13.5 B 09 58	<u>West of Macquarie Islands</u> 58.89 S 149.06 E H = 08 14 55.1 h = normal MAG=5.1 D = 154.49 Az = 270.0 (USCGS) eV(A):1.4s 32.6nm LmH:16s 1.2/um MLH=5.7
1.	eP	A 09 58 05	<u>Off East Coast of Honshu, Japan</u> 40.46 N 143.79 E H = 09 45 57.6 h = normal MAG=5.0 D = 80.08 Az = 331.4 (USCGS)
1.	eP ipP LmH LmV	A 10 01 54 A 02 06 C 41.7 C 40.2	<u>Kurile Islands</u> 43.11 N 147.63 E H = 09 49 52.0 h = normal MAG=5.3 D = 79.07 Az = 333.2 (USCGS) h = 45 km PV:1.7s 66.6nm MPV=5.4 pPV:1.3s 74.2nm LmH:19s 0.9/um MLH=5.3 LmV:16s 1.1/um MLV=5.3
			From 01 d 10 <sup>h</sup> 04 <sup>min</sup> to 02 d 05 <sup>h</sup> 35 <sup>min</sup> clock of the station out of operation
2.	eP LmH	A 07 35 18 C 08 17.3	<u>Kyushu, Japan</u> 30.3 N 131.0 E H = 07 22 49.4 h = 15 km MAG=4.8 (USCGS)

September 1969

Moxa

Day	Phase	h m s	Remarks
cont. 2.	LmV C	08 17.3	D = 83.2 LmH:16s 0.5/um MLH=5.0 LmV:16s 0.9/um MLV=5.3
2.	-eP epP A A	11 52 00.8 52 08.5	<u>Ascension Island</u> 7.12 S 13.14 W H = 11 41 46.0 h = 32 km MAG=4.9 D = 61.40 Az = 17.7 (USCGS) PV:1.1s 16.1nm MPV=5.1
2.	eP e A A	12 19 34 19 41	<u>Honshu, Japan</u> 36.34 N 137.73 E H = 12 07 16.5 h = 10 km MAG=4.5 D = 81.26 Az = 328.6 (USCGS)
2.	e LmH LmV C C	13 38 05 14 00.4 13 55.5	<u>Iran</u> 30.20 N 57.65 E H = 13 30 03.5 h = 20 km MAG=5.3 D = 39.77 Az = 314.2 (USCGS) LmH:14s 0.3/um MLH=4.3 LmV:24s 0.5/um MLV=4.4
2.	eP A	15 32 06	<u>Kurile Islands</u> 43.36 N 147.27 E H = 15 20 02.8 h = normal MAG=4.6 D = 78.73 Az = 333.0 (USCGS) PV:1.0s 9.8nm MPV=4.8
3.	eP A	04 31 28	<u>Kurile Islands</u> 43.29 N 146.50 E H = 04 19 26.8 h = normal MAG=4.3 D = 78.53 Az = 332.6 (USCGS)
3.	eP ePP eS e LmH LmV A A B B B	16 33 07 36 28 43 42 47 00 17 14.9 17.9	<u>South of Honshu, Japan</u> 31.48 N 140.24 E H = 16 20 21.5 h = 16 km MAG=5.3 D = 86.50 Az = 330.1 (USCGS) PV:2.0s 55.5nm MPV=5.4 PPH(A):2.2s 112.5nm MPPH(A)=6.2 PPV(A):2.0s 85.5nm MPPV(A)=5.9 LmH:17s 2.4/um MLH=5.7 LmV:14s 2.2/um MLV=5.7

September 1969

Moxa

Day	Phase	h m s	Remarks
3.	eP A	22 13 35	<u>Kurile Islands</u> 43.11 N 147.48 E H = 22 01 31.4 h = normal MAG=4.8 D = 79.02 Az = 333.2 (USCGS)
3.	eP LmH LmV A B B	23 46 15 24 07.5 09.3	<u>Iran</u> 34.27 N 58.26 E H = 23 39 03.0 h = normal MAG=4.8 D = 37.42 Az = 310.4 (USCGS)
4.	eP A	03 05 06	<u>Hindu Kush Region</u> 36.51 N 70.90 E H = 02 57 18.8 h = 221 km MAG=4.8 D = 44.05 Az = 308.1 (USCGS)
4.	+iP e ePP eS LmH LmV AB B B B B	03 20 47 21 15 23 40 30 36 57.0 58.4	<u>Kurile Islands</u> 46.63 N 153.51 E H = 03 08 52.0 h = normal MAG=5.4 D = 77.67 Az = 336.3 (USCGS) PV(A):1.4s 51.2nm MPV(A)=5.5 PV(B):7.5s 2.2/um MPV(B)=6.0 PmV(A):1.1s 133.0nm MPmV(A)=6.0 SH: 14s 6.0/um MSH=6.0 LmH: 15.5s 7.6/um MLH=6.1 LmV: 17.5s 5.2/um MLV=5.9
4.	eP e A A	04 42 20 42 32	<u>Kurile Islands</u> 42.96 N 146.79 E H = 04 30 17.5 h = normal MAG=4.7 D = 78.92 Az = 332.8 (USCGS)
4.	eP A	04 46 46.5	<u>Kurile Islands</u> 46.40 N 153.73 E H = 04 34 46.2 h = 7 km MAG=4.3 D = 77.94 Az = 336.4 (USCGS)
4.	eP A	05 50 49.5	<u>Kurile Islands</u> 45.52 N 150.73 E H = 05 38 53.6 h = normal MAG=4.8 D = 77.88 Az = 334.8 (USCGS) PV:1.4s 18.6nm MPV=5.0
4.	eP A	11 45 56	<u>Kurile Islands</u> 43.21 N 147.49 E H = 11 33 53.3 h = normal MAG=4.1 D = 78.93 Az = 333.1 (USCGS)

September 1969

Moxa

Day	Phase	h m s	Remarks
4.	eiP	A 17 24 13	<u>Jordan-Syria Region</u> 35.34 N 39.13 E H = 17 18 48.8 h = normal MAG=4.7 D = 25.08 Az = 316.1 (USCGS) PV:1.4s 34.9nm MPV=4.9 LmH:13s 0.3/um MLH=4.0 LmV:15s 0.3/um MLV=4.1
	eS	BC 28 45	
	LmH	B 35.7	
	LmV	B 35.8	
4.	eP	A 19 29 49.5	<u>Dodecanese Islands</u> 35.13 N 27.18 E H = 19 25 26.0 h = normal MAG=4.9 D = 19.18 Az = 328.1 (USCGS) PV:1.8s 53.0nm MPV=4.5 LmH:10.5s 0.9/um MLH=4.4 LmV:13s 0.7/um MLV=4.3
	eS	BC 33 20	
	LmH	B 38.2	
	LmV	B 38.5	
4.	+iP	AB 21 24 35.2	<u>Kurile Islands</u> 43.84 N 147.38 E H = 21 12 39.5 h = 60 km MAG=5.6 D = 78.34 Az = 333.0 (USCGS) PV:1.6s 169.5nm MPV=5.9 pPV:1.5s 97.0nm MpPV=5.7 LmH:17s 2.3/um MLH=5.6 LmV:18s 2.3/um MLV=5.6
	epP	AB 24 44	
	eS	BC 34 25	
	eSKS	BC 34 40	
	eSS	C 40 10	
	LmH	B 22 03.9	
	LmV	B 03.9	
4.	eP	A 23 58 44	<u>Kurile Islands</u> 43.49 N 146.51 E H = 23 46 51.4 h = 87 km MAG=4.6 D = 78.36 Az = 332.6 (USCGS)
5.	ePKP	A 00 45 40.5	<u>Tonga Islands</u> 18.06 S 173.23 W H = 00 25 58.9 h = normal MAG=4.9 D = 147.26 Az = 354.3 (USCGS) PKPV:1.2s 6.1nm
5.	+eiP	AB 11 54 45	<u>Taiwan</u> 22.72 N 121.65 E H = 11 42 14.0 h = 33 km MAG=5.6 D = 84.56 Az = 323.1 (USCGS) PV:1.7s 69.7nm MPV=5.6 LmH:15s 4.1/um MLH=5.9 LmV:15s 5.7/um MLV=6.1
	eS	BC 12 05 11	
	LmH	B 37.5	
	LmV	B 37.7	

September 1969

Moxa

Day	Phase	h m s	Remarks
5.	eP	A 17 58 35	<u>Turkey</u> 38.91 N 37.12 E H = 17 53 49 h = 53 km MAG=4.4 D = 21.45 Az = 311.5 (USCGS)
	LmH	B 18 09.0	
	LmV	B 09.5	
5.	ePKP	A 20 08 22.5	<u>Fiji Islands</u> 15.81 S 176.71 W H = 19 49 36.7 h = 458 km MAG=4.4 D = 144.61 Az = 350.8 (USCGS)
5.	eP	A 22 18 33	<u>East China Sea</u> 28.99 N 128.88 E H = 22 06 16.9 h = 107 km MAG=4.9 D = 83.32 Az = 325.3 (USCGS) PV:0.8s 15.4nm MPV=5.0
6.	+iP	AB 07 55 28.7	<u>Kurile Islands</u> 43.75 N 147.30 E H = 07 43 29.8 h = normal MAG=5.5 D = 78.39 Az = 333.0 (USCGS) PV:2.1s 144.0nm MPV=5.7 pPV:1.6s 118.0nm LmH:17s 1.9/um MLH=5.5 LmV:18s 2.0/um MLV=5.5
	ipP	AB 55 40.2	
	i	A 55 44.2	
	e	A 58 12	
	eS	BC 08 05 18	
	LmH	B 34.8	
	LmV	B 34.9	
6.	eP	AB 11 53 15	<u>Kurile Islands</u> 49.45 N 153.34 E H = 11 41 50.6 h = 170 km MAG=4.9 D = 75.04 Az = 335.9 (USCGS) h = 200 km PV:1.6s 44.0nm MPV=4.9 pPV:1.9s 34.1nm
	epP	A 54 02	
6.	+iP1	AB 14 35 29.2	<u>Northern Atlantic Ocean</u> 36.94 N 11.89 W H = 14 30 39.5 h = normal MAG=5.7 D = 21.69 Az = 43.4 (USCGS) P1V:1.4s 358.0nm MP1V=5.6 P2V:1.5s 1080.0nm MP2V=6.0 LmH:16s 21.2/um MLH=5.7 LmV:16s 13.0/um MLV=5.6
	iP2	AB 35 32.5	
	ePP	E 35 50	
	iS	BC 39 29	
	LmH	B 43.4	
	LmV	B 44.5	



September 1969

Moxa

Day	Phase	h m s	Remarks
6.	ePKIKP	A 15 09 06.5	<u>Solomon Islands</u> 8.84 S 157.81 E
	eX	A 09 13	H = 14 49 56.0 h = 15 km MAG=5.8
	e	A 09 18	D = 129.83 Az = 332.5 (USCGS) PKIKPV:1.4s 18.6nm XV:2.4s 180.0nm
6.	eP	A 16 29 56	<u>South of Honshu, Japan</u> 30.04 N 140.63 E
	ePP	A 33 24	H = 16 17 15.5 h = 89 km MAG=5.3 D = 87.91 Az = 330.3 (USCGS) PV:1.8s 44.0nm MPV=5.5 PPV:15s 25.1nm MPPV=5.4
6.	-ePKIKP	A 17 27 15	<u>Solomon Islands</u> 8.90 S 157.86 E
	eX	A 27 18.5	H = 17 08 03.2 h = 10 km MAG=5.8 D = 129.91 Az = 332.5 (USCGS) PKIKPV:1.9s 75.9nm XV:1.8s 44.0nm
6.	eP	A 19 10 39	<u>Kurile Islands</u> 43.26 N 146.70 E
	epP	A 10 50	H = 18 58 39.1 h = normal MAG=4.3 D = 78.63 Az = 332.7 (USCGS) h = 40 km
6.	+iP	AB 20 34 51.2	<u>Dodecanese Islands</u> 36.75 N 28.36 E
	-i	A 34 57.2	H = 20 30 39.6 h = 67 km MAG=5.1
	e	EC 35 13	D = 18.36 Az = 324.4 (USCGS)
	eS	BC 38 16	PV:1.5s 397.0nm MPV=5.4
	LmH	B 40.5	
	LmV	B 40.5	
6.	ePKP	A 22 28 36	<u>New Hebrides Islands</u> 18.74 S 169.21 E
			H = 22 09 30.6 h = 233 km MAG=4.9 D = 143.52 Az = 335.9 (USCGS) PKPV:1.2s 28.5nm
7.	eP	A 00 35 49	<u>Kyushu, Japan</u> 33.61 N 131.49 E
	epP	A 36 16.5	H = 00 23 44.8 h = 91 km MAG=5.2
	eS	C 45 55	D = 80.78 Az = 326.0 (USCGS)

224

September 1969

Moxa

Day	Phase	h m s	Remarks
cont. 7.	esS	C 00 46 28	h = 111 km
	LmH	C 01 08	PV:1.4s 27.9nm MPV=5.1
	LmV	C 08	
7.	ePKIKP	A 03 25 10	<u>Solomon Islands</u> 8.89 S 157.71 E
	e	A 25 15	H = 03 06 02.2 h = normal MAG=5.6
	LmH	B 04 19.5	D = 129.83 Az = 332.5 (USCGS)
	LmV	B 25.6	PKIKPV:2.0s 51.3nm
7.	eP	A 06 52 42	<u>Kurile Islands</u> 43.12 N 147.72 E
	e	A 52 55	H = 06 40 38.4 h = normal MAG=4.5 D = 79.09 Az = 333.3 (USCGS)
7.	ePKIKP	A 08 59 20	<u>Solomon Islands</u> 6.56 S 155.77 E
			H = 08 40 34.3 h = 173 km MAG=5.3 D = 126.89 Az = 332.2 (USCGS) PKIKPV:1.4s 32.6nm
7.	eP	A 12 45 53	<u>Kurile Islands</u> 42.98 N 146.77 E
			H = 12 33 51.2 h = normal MAG=4.4 D = 78.89 Az = 332.8 (USCGS)
7.	e	A 15 22 52.5	<u>Yugoslavia</u> 44.6 N 17.4 E
	e	A 23 10	H = 15 19 49 (BCIS) D = 7.2
7.	ePKP	A 15 31 37	<u>Tonga Islands</u> 17.61 S 175.46 W
			H = 15 12 31.9 h = 328 km MAG=4.2 D = 146.55 Az = 351.8 (USCGS)
7.	eP	A 18 55 40	<u>Kurile Islands</u> 43.44 N 148.14 E
	epP	A 55 53	H = 18 43 37.8 h = normal MAG=4.9
	LmH	B 19 28.3	D = 78.94 Az = 333.5 (USCGS)
	LmV	B 35.4	PV:1.4s 18.6nm MPV=4.9 pPV:1.3s 30.6nm
			LmH:20s 0.8/um MLH=5.1 LmV:16s 0.6/um MLV=5.1

225

September 1969

Moxa

Day	Phase	h m s	Remarks
7.	eP	A 20 16 07	<u>Kurile Islands</u> 43.39 N 147.52 E H = 20 04 11.2 h = 84 km MAG=4.0 D = 78.78 Az = 333.1 (USCGS) h = 48 km
	epP	A 16 20	
8.	epP	A 02 50 14	<u>Kurile Islands</u> 43.11 N 147.27 E H = 02 37 59.2 h = normal MAG=4.2 D = 78.95 Az = 333.0 (USCGS)
8.	eP	A 05 05 33	<u>Ural Mountains Region</u> 57.37 N 55.11 E H = 04 59 56.1 h = 0 km MAG=4.9 D = 26.05 Az = 273.9 (USCGS) PV:1.2s 24.4nm MPV=4.7 LmH:8s 0.4/um MLH=4.3 LmV:8s 0.5/um MLV=4.5
	e	A 13 55	
	e	A 14 16	
	LmH	B 17.1	
	LmV	B 16.9	
8.	ePKIKP	A 13 04 30	<u>New Ireland Region</u> 5.10 S 153.42 E H = 12 45 34.6 h = 47 km MAG=5.2 D = 124.50 Az = 331.5 (USCGS) PKIKPV:1.3s 26.2nm XV:1.2s 44.6nm LmH:18.5s 1.1/um MLH=5.6 LmV:19s 1.2/um MLV=5.6
	iX	A 04 32.5	
	eSS	C 23 05	
	ePSPS	C 23 50	
	LmH	B 14 04.6	
	LmV	B 04.5	
8.	eP	A 21 09 37	<u>Kurile Islands</u> 43.63 N 147.86 E H = 20 57 36.4 h = normal MAG=4.8 D = 78.68 Az = 333.3 (USCGS) h = 48 km
	e	A 09 40	
	epP	A 09 49.5	
9.	eP	A 05 27 53	<u>Honshu, Japan</u> 35.75 N 136.98 E H = 05 15 37.7 h = 29 km MAG=5.5 D = 81.44 Az = 328.3 (USCGS) LmH(C):19s 60.1/um MLH(C)=7.0 LmV(C):18s 17.8/um MLV(C)=6.5
	i	A 27 59.5	
	eS	C 38 00	
	eSS	C 43 28	
	LQ	C 48 39	
	LmH	C 06 01.8	
	LmV	C 04.5	

September 1969

Moxa

Day	Phase	h m s	Remarks
9.	LmH	C 16 22.8	<u>Northern Easter I. Cordillera</u> 4.4 S 105.9 W H = 15 23 10.8 h = normal MAG=5.2 (USCGS) D = 110.6 LmH:20s 0.5/um MLH=5.1 LmV:21s 0.8/um MLV=5.3
	LmV	C 22.8	
10.	ePg	A 03 28 30	<u>Switzerland</u> 46.4 N 8.2 E H = 03 26 58 (BCIS) D = 4.8
	eSg	A 29 32	
	e	A 29 36	
10.	eP1	A 07 58 55	<u>Kurile Islands</u> 44.01 N 148.06 E H = 07 46 58.0 h = 54 km MAG=4.9 D = 78.11 Az = 333.4 (USCGS) PV2:1.4s 41.9nm MPV2=5.4 LmH:16s 0.3/um MLH=4.8
	eP2	A 58 56.5	
	LmH	C 08 00	
10.	eiP1	A 12 19 10	<u>Turkey</u> 39.19 N 41.43 E H = 12 14 00.5 h = 50 km MAG=5.2 D = 23.85 Az = 308.5 (USCGS) P1V:2.0s 175.0nm MP1V=5.2 P2V:1.9s 151.5nm MP2V=5.2 S1H:16s 3.2/um MS1H=5.5 LmH:13s 2.9/um MLH=4.9 LmV:15s 3.1/um MLV=5.0
	eiP2	A 19 17	
	eS1	BC 23 34	
	+iS2	B 23 44	
	e	B 24 04	
	e	B 24 44	
	LmH	B 31.3	
	LmV	B 31.4	
10.	LmH	C 16 49	<u>Honshu, Japan</u> 35.7 N 137.1 E H = 16 02 51.5 h = normal MAG=3.8 (USCGS)
10.	eP	A 21 11 48	<u>Colorado</u> 39.41 N 107.95 W H = 21 00 00.1 h = 0 km MAG=5.3 D = 75.87 Az = 34.8 (USCGS) Underground Explosion "Rulison" 39°24'21" N 107°56'53" W H = 21 00 00.11 h = 8443 feet MB=5.0 yield:40kt (USAEC) PV:1.1s 10.1nm MPV=4.9

September 1969

Moxa

Day	Phase	h m s	Remarks
11.	eiP AB	03 29 38	<u>Ryukyu Islands</u> 26.12 N 128.71 E
	epP AB	29 47.5	H = 03 17 00.1 h = 25 km MAG=5.3
	eS C	40 08	D = 85.48 Az = 325.3 (USCGS)
	eSS C	45 50	h = 35 km
	eSSS C	50.0	PV:2.0s 72.7nm MPV=5.5
	LmH E	04 05.5	pPV:1.8s 87.8nm
	LmV B	13.0	LmH:19s 2.8 $\mu$ m MLH = 5.7 LmV:19s 2.7 $\mu$ m MLV = 5.7
11.	eP A	04 09 46.5	<u>Eastern Kazakh SSR</u> 49.70 N 78.11 E H = 04 01 57.2 h = 0 km MAG=5.0 D = 41.29 Az = 297.8 (USCGS) PV:0.8s 17.3nm MPV=4.8 Underground explosion
11.	e(pP) A	06 33 08	<u>Near East Coast of Honshu, Japan</u> 38.2 N 141.7 E H = 06 20 39.8 h = 94 km MAG=4.1 (USCGS) D = 81.3
11.	ePKP A	12 50 48.5	<u>Tonga Island</u> 18.66 S 175.80 W H = 12 31 32.4 h = 250 km MAG=4.4 D = 147.54 Az = 351.2 (USCGS)
12.	eP A	02 27 28	<u>Kurile Islands</u> 43.45 N 146.43 E
	epP A	27 38	H = 02 15 32.1 h = 62 km MAG=4.8
	e(sP) A	27 43	D = 78.37 Az = 332.5 (USCGS)
11.	eP A	02 37 24	<u>Fiji Islands</u> 17.89 S 178.51 W H = 02 18 48.6 h = 597 km MAG=4.2 D = 146.33 Az = 348.4 (USCGS) PV:1.0s 5.9nm
12.	ePKIKP A	03 34 12.5	<u>Tonga Islands</u> 18.62 S 174.86 W
	-iPKHKP A	34 15.5	H = 03 14 44.9 h = 134 km MAG=5.1
	epPKP A	34 58.5	D = 147.64 Az = 352.3 (USCGS) PKHKPV:1.4s 70.0nm

228

September 1969

Moxa

Day	Phase	h m s	Remarks
12.	-eP A	05 15 52	<u>Hindu Kush</u> 36.41 N 70.86 E
	epP A	16 35	H = 05 08 01.6 h = 198 km MAG=5.1 D = 44.08 Az = 308.1 (USCGS) h = 200 km
12.	-eP A	07 27 46	<u>Andreanof Islands, Aleutian Is.</u>
	e A	27 52.5	51.26 N 179.20 W
	e A	28 00	H = 07 15 50.2 h = 44 km MAG=5.0 D = 78.06 Az = 353.0 (USCGS) PV:1.3s 39.4nm MPV=5.4
12.	eP A	07 54 39	<u>Andreanof Islands, Aleutian Is.</u>
	e A	54 44	51.10 N 179.14 W H = 07 42 43.7 h = 48 km MAG=5.0 D = 78.23 Az = 353.0 (USCGS) PV:1.1s 20.2nm MPV=5.2
12.	+eP A	08 12 13	<u>Andreanof Islands, Aleutian Is.</u>
	e A	12 26.5	51.09 N 179.32 W
	eS BC	22 12	H = 08 00 16.8 h = 49 km MAG=5.2
	LmH B	47.0	D = 78.22 Az = 352.9 (USCGS)
	LmV B	54.4	PV:1.0s 29.5nm MPV=5.4 LmH:20s 0.9 $\mu$ m MLH=5.1 LmV:17s 1.0 $\mu$ m MLV=5.3
12.	eP A	08 18 04	<u>Andreanof Islands, Aleutian Is.</u> 51.08 N 179.25 W H = 08 06 08.8 h = 55 km MAG=5.0 D = 78.24 Az = 353.0 (USCGS) PV:1.0s 19.7nm MPV=5.2
12.	+iP A	08 21 20.5	<u>Andreanof Islands, Aleutian Is.</u>
	e A	21 30	51.10 N 179.20 W
	e A	21 36	H = 08 09 24.4 h = 46 km MAG=5.1 D = 78.22 Az = 353.0 (USCGS) PV:1.0s 31.5nm MPV=5.4

229

September 1969

Moxa

Day	Phase	h m s	Remarks
12.	+iP1	AB	09 09 02.8 <u>Andreanof Islands, Aleutian Is.</u>
	iP2	A	09 04.5 51.22 N 179.15 W
	e	B	11 03 H = 08 57 07.3 h = 48 km MAG=6.0
	ePP	BC	12 00 D = 78.10 Az = 353.0 (USCGS)
	ePPP	BC	13 52 P1V(A):1.3s 78.5nm MP1V(A)=5.7
	eS	C	18 45 P1V(B):12s 5.2 $\mu$ m MP1V(B)=6.5
	e	C	23 30 P2V(A):1.2s 224.0nm MP2V(A)=6.2
	iSS	C	24 16 LmH:20s 31.1 $\mu$ m MLH =6.6
	LmV	B	51.6 LmV:16.5s 21.3 $\mu$ m MLV =6.6
12.	e(P)	A	11 59 46.5 <u>Kurile Islands</u> 43.28 N 147.78 E H = 11 47 39.9 h = normal MAG=4.3 D = 78.97 Az = 333.3 (USCGS) PV:0.7s 13.4nm MPV=5.1
12.	+iP	AB	15 12 13.2 <u>Andreanof Islands, Aleutian Is.</u>
	e	A	12 23 51.31 N 179.16 W
	eSS	C	22 10 H = 15 00 18.8 h = 53 km MAG=5.6
	eSSS	C	27 15 D = 78.01 Az = 353.0 (USCGS)
	LmV	B	49.8 PV:1.0s 67.0nm MPV=5.7 LmH:20s 0.9 $\mu$ m MLH=5.1 LmV:18s 0.4 $\mu$ m MLV=4.9
13.	ePKIKP	A	00 53 23 <u>South of Fiji Islands</u> 24.47 S 179.86 E
	eiPKHKP	A	53 31 H = 00 34 38.4 h = 579 km MAG=4.9
	ePKP2	A	53 43.5 D = 152.32 Az = 343.8 (USCGS) PKIKPV:1.3s 24.0nm PKP2V:1.2s 32.5nm
13.	eP	A	11 31 37 <u>Off East Coast of Honshu, Japan</u>
	e	A	31 42 33.81 N 141.61 E
	e	A	31 53 H = 11 19 03.0 h = 35 km MAG=5.0 D = 85.05 Az = 330.7 (USCGS) PV:1.3s 17.5nm MPV=5.1

September 1969

Moxa

Day	Phase	h m s	Remarks
13.	+iP1	AB	12 04 13.8 <u>Kurile Islands</u> 43.55 N 147.58 E
	iP2	A	04 16.4 H = 11 52 15.3 h = 52 km MAG=5.5
	ipP	AB	04 26 D = 78.66 Az = 333.2 (USCGS)
	isP	AB	04 33 P1V:1.4s 65.0nm MP1V=5.5
	e	A	04 39.5 P2V:1.6s 132.0nm MP2V=5.8
	eS	C	13 52 pPV:1.3s 74.3nm
	LmH	C	36.1 sPV:1.5s 90.5nm
	LmV	B	44.0 LmH:23s 1.7 $\mu$ m MLH=5.3 LmV:16s 0.9 $\mu$ m MLV=5.2
	13.	eP	A
LmH		C	46.9 H = 20 00 28.3 h = 52 km MAG=4.6
LmV		C	49.8 D = 79.06 Az = 331.2 (USCGS) LmH:19s 0.3 $\mu$ m MLH=4.6 LmV:20s 0.2 $\mu$ m MLV=4.5
13.	eP	A	23 13 21.5 <u>Andreanof Islands, Aleutian Is.</u> 51.36 N 179.27 W H = 23 01 26.1 h = 36 km MAG=4.6 (USCGS) D = 77.9
14.	eP	A	01 27 15 <u>Kurile Islands</u> 47.03 N 153.59 E H = 01 15 22.8 h = normal MAG=4.5 D = 77.32 Az = 336.3 (USCGS) PV:1.0s 15.8nm MPV=5.1
14.	eP	AB	06 24 00 <u>Kurile Islands</u> 43.49 N 147.75 E
	e	A	24 12 H = 06 11 55.8 h = normal MAG=4.4 (USCGS)
	e	A	24 23.5 D = 78.8
	eS	BC	33 58 LmH:15s 1.2 $\mu$ m MLH=5.4
	LmV	B	07 02.3 LmV:17s 0.9 $\mu$ m MLV=5.2
14.	eP	A	11 01 42.5 <u>Andreanof Islands, Aleutian Is.</u> 51.22 N 179.24 W H = 10 49 46.7 h = 42 km MAG=4.5 D = 78.09 Az = 353.0 (USCGS) PV:0.7s 9.6nm MPV=5.0

September 1969

Moxa

Day	Phase	h m s	Remarks	
14.	eP LmH LmV	A C C	12 28 44 54.7 54.7	<u>Lake Baikal Region</u> 54.0 N 109.3 E H = 12 19 11 h = 15 km D = 55.1 (ANUSSR) PV:1.3s 19.7 nm MPV=5.0 LmH:17.5s 0.5/um MLH=4.7 LmV:17s 0.6/um MLV=4.8
14.	eP1 eiP2 epP LmH LmV	A A A C C	13 01 11 01 13 01 23 33.5 40	<u>Kurile Islands</u> 43.48 N 147.57 E H = 12 49 12.2 h = 53 km MAG=4.9 D = 78.72 Az = 333.2 (USCGS) h = 45 km P1V:1.2s 22.4nm MP1V=5.1 P2V:1.2s 44.7nm MP2V=5.4 LmH:22s 0.3/um MLH=4.4
14.	ePKHKP	A	14 46 40.5	<u>South of Fiji Islands</u> 22.15 S 179.75 W H = 14 27 55.1 h = 600 km MAG=4.7 D = 150.20 Az = 345.4 (USCGS) PKHKPV:0.8s 9.6nm
14.	eP1 eP2 e ei ei ePP eS eSa LmH LmV	AB A A A A A BC BC B B	14 54 32 54 34.5 54 38.5 54 44 54 48.5 56 28 15 01 12 04 35 11.8 14.8	<u>Southern Sinkiang Prov., China</u> 39.64 N 74.87 E H = 14 46 21.1 h = normal MAG=5.1 D = 44.66 Az = 306.0 (USCGS) P2V:1.6s 33.0nm MP2V=4.9 PmV:2s 77nm MPV =5.2 PPV(A):3s 289.0nm MPPV=5.7 LmH:15s 3.5/um MLH =5.4 LmV:12.5s 3.5/um MLV =5.6
14.	eP1 iP2 iP3 ePP ePa e eS e eSa	ABC A A AC B C CE CN BC	16 23 35 23 39.5 23 41 25 22 25 30 25 33 30 05 30 10 33 28	<u>Southern Sinkiang Prov., China</u> 39.69 N 74.86 E H = 16 15 24.8 h = normal MAG=5.5 D = 44.63 Az = 306.0 (USCGS) P1V(A):1.5s 57.8nm MP1V(A)=5.2 P1V(B):5s 1.12/um MP1V(B)=6.0 P2V(A):1.0s 70.8nm MP2V(A)=5.5 P3V(A):1.6s 121.0nm MP3V(A)=5.5 LmH:16s 9.9/um MLH =5.8

September 1969

Moxa

Day	Phase	h m s	Remarks	
cont. 14.	LmH LmV	B B	16 40.8 43.8	LmV:14s 5.9/um MLV=5.8
14.	LmH LmV	C C	19 18 20.7	<u>Gulf of California</u> 24.0 N 108.7 W H = 18 25 51.6 h = normal MAG=4.5 (USCGS) D = 88.9 LmH:19s 0.2/um MLH=4.5 LmV:15s 0.3/um MLV=4.8
15.	LmH LmV	C C	13 43.7 43.7	<u>Near Coast of Guerrero, Mexico</u> 17.4 N 101.4 W H = 12 47 22.4 h = normal MAG=4.9 (USCGS) D = 90.5 LmH:20s 0.2/um MLH=4.6 LmV:19s 0.2/um MLV=4.7
15.	eP	A	14 41 40	<u>Kurile Islands</u> 45.42 N 151.45 E H = 14 29 41.2 h = 22 km MAG=4.7 D = 78.19 Az = 335.2 (USCGS) PV:1.6s 16.5nm MPV=4.9
15.	+eP e eS ePS eSS LmH LmV	ABC A C BC C C B	14 57 30.5 57 55 15 07 15 08 00 12 20 33.6 40.8	<u>Rat Islands, Aleutian Is.</u> 51.89 N 175.54 E H = 14 45 42.0 h = 50 km MAG=5.2 D = 76.93 Az = 349.6 (USCGS) PV(A):1.4s 46.5nm MPV(A)=5.4 LmH(C):21s 0.9/um MLH(C)=5.1 LmV(B):18s 0.5/um MLV(B)=5.0 e(A) 58 36 e(A) 00 29
15.	+iP epP esP LmH LmV	AB A A E B	18 59 37.5 59 47 59 53 19 33.6 38.7	<u>Kurile Islands</u> 45.54 N 151.58 E H = 18 47 41.3 h = 44 km MAG=5.3 D = 78.11 Az = 335.3 (USCGS) h(pP)=35 km h(sP)=37 km PV(A):1.5s 105.0nm MPV(A)=5.8 pPV:1.4s 23.3nm sPV:1.5s 30.2nm LmH:18s 1.0/um MLH=5.2 LmV:18s 0.7/um MLV=5.0

September 1969

Moxa

Day	Phase	h m s	Remarks
16.	+eP1	A 01 29 08	<u>Kurile Islands</u> 45.59 N 151.58 E
	eiP2	A 29 09.5	H = 01 17 14.6 h = 60 km MAG=5.0
	eS	C 38 59	D = 78.07 Az = 335.3 (USCGS)
	LmH	B 02 03.1	P1V:1.2s 12.2nm MP1V=4.9
	LmV	B 08.3	P2V:1.2s 36.6nm MP2V=5.4 LmH:18s 1.7/um MLH=5.4 LmV:18s 0.8/um MLV=5.1
16.	eP	A 02 34 33.5	<u>Kurile Islands</u> 45.71 N 151.57 E H = 02 22 36.4 h = normal MAG=4.6 D = 78.70 Az = 333.4 (USCGS)
16.	eiP	AB 08 12 56.5	<u>Ryukyu Islands</u> 27.23 N 127.27 E H = 08 00 35.8 h = 94 km MAG=5.1 D = 83.95 Az = 324.8 (USCGS) PV:1.5s 57.8nm MPV=5.3
16.	iP	AB 14 42 17.5	<u>Southern Nevada</u> 37.32 N 116.46 W
	e	ABC 42 38	H = 14 30 00.0 h = 0 km MAG=6.2
	e	CB 43 30	D = 81.23 Az = 30.5 (USCGS)
	ePP	AB 45 22	Nuclear Explosion "JORUM"
	eS	BC 52 32	H = 14 30 00.4 h = 0 km
	LmH	B 15 20.3	37°18'51" N 116°27'38" W (USAEC)
LmV	B 20.3	PV:1.5s 231.0nm MPV=5.9 PPV:1.6s 143.0nm MPPV=6.0 LmH:15.5s 2.5/um MLH=5.7 LmV:16s 3.7/um MLV=5.9	
16.	eP	A 21 27 39.5	<u>Southern Sinkiang Prov., China</u> 39.84 N 75.10 E H = 21 19 26.5 h = 19 km MAG=4.9 D = 44.69 Az = 305.9 (USCGS)
16.	eP	A 22 55 16	<u>Southern Alaska</u> 60.31 N 153.01 W
	epP	A 55 41.5	H = 22 44 23.2 h = 110 km MAG=4.7 D = 68.70 Az = 10.4 (USCGS) h = 104 km

234

September 1969

Moxa

Day	Phase	h m s	Remarks
17.	eP	A 02 26 51	<u>Near East Coast of Kamchatka</u> 53.09 N 160.06 E H = 02 15 20.1 h = 22 km MAG=4.5 D = 73.27 Az = 339.6 (USCGS) PV:1.0s 15.8nm MPV=5.1
	LmV	C 02 29	<u>South Sandwich Islands Region</u> 59.0 S 24.8 W H = 01 23 54.1 h = normal MAG=5.1 (USCGS) D = 113.2
17.	ePn	A 11 47 12	<u>Germany (Peisenberg)</u> 47.8 N 11.1 E
	iPb	A 47 17.5	H = 11 46 26 (BCIS) D = 2.9
	e	A 47 20	H = 11 46 25 h = 0 km 47.90 N 11.3 E
	ePg	A 47 22	D = 2.76 (ISC)
	iSn	A 47 44.5	
	eSg	A 47 56.5	
17.	eSn	A 13 00 25	<u>Germany</u> 49.5 N 7.8 E
	e	A 00 26.5	H = 12 59 04 (BCIS) D = 2.7 H = 12 59 06 h = 0 km 49.2 N 7.2 E D = 3.19 (ISC)
17.	ePKP	A 18 16 22	<u>Loyalty Islands</u> 22.54 S 173.44 E
	e	A 16 32	H = 17 56 45.9 h = 104 km MAG=4.2 D = 148.56 Az = 337.6 (USCGS)
17.	+eiP	A 18 53 11.5	<u>Kyushu, Japan</u> 31.12 N 131.31 E
	+i	BC 53 12	H = 18 40 45.8 h = 8 km MAG=6.2
	-iX	ABC 53 22.5	D = 82.76 Az = 326.1 (USCGS)
	ePP	BC 56 24	PV(A):2.5s 906.0nm MPV(A)=6.6
	eS	B 19 03 30	PV(B):5.5s 2.4/um MPV(B)=6.6
	eSS	BC 09 00	XV(A):2.1s 520.0nm
	e	B 09 15	LmH:17s 55.6/um MLH=7.0
	Lg1	B 23.0	LmV:16s 69.7/um MLV=7.2
	ePKPPKS	A 23 02	
	Lg2	B 25 25	
	LmH	B 34.9	
LmV	B 34.3		

235

September 1969

Moxa

Day	Phase	h m s	Remarks	
17.	eP eX	A A	19 03 31 03 42	<u>Kyushu, Japan</u> 31.16 N 131.41 E H = 18 51 07.8 h = 23 km MAG=5.5 D = 82.77 Az = 326.2 (USCGS) PV:2.2s 131.0nm MPV=5.8 XV:2.0s 59.8nm
18.	eP LmH LmV	A B B	03 18 10 25.0 25.9	<u>Portugal</u> 39.91 N 8.47 W H = 03 14 02.5 h = 23 km MAG=4.0 D = 17.69 Az = 46.0 (USCGS) LmH:12s 0.6/um MLH=4.0 LmV:9s 0.5/um MLV=4.2
18.	ePKHKP ePKP2	A A	05 26 34 26 48	<u>South of Fiji Islands</u> 25.28 S 179.59 E H = 05 07 36.1 h = 525 km MAG=4.1 D = 153.03 Az = 343.0 (USCGS)
18.	eP epP LmH LmV	A A B B	12 04 36.5 04 44.5 39.3 43.9	<u>Kurile Islands</u> 43.26 N 146.90 E H = 11 52 37.6 h = 50 km MAG=4.9 D = 78.69 Az = 332.8 (USCGS) h = 30 km PV:1.0s 11.8nm MPV=4.9 pPV:1.7s 30.3nm LmH:16s 0.5/um MLH=4.9 LmV:16s 0.5/um MLV=5.9
18.	iPg iSg	A A	16 14 48 15 00.5	<u>Czechoslovakia</u> 50.45 N 13.03 E H = 16 <sup>n</sup> 14 <sup>m</sup> h = 0 km D = 0.92 Az = 283 (ISC)
19.	ePKP eX	A A	01 07 23.5 07 27	<u>Fiji Islands</u> 17.00 S 177.03 W H = 00 47 44.7 h = 45 km MAG=4.3 D = 145.73 Az = 350.2 (USCGS) XV:2.3s 42.6nm
19.	eP epP ePP epPP ePPP	A AB A B B	01 43 13 43 34.5 47 26 47 40 49 33	<u>Mindanao, Philippine Is.</u> 6.06 N 125.36 E H = 01 29 37.4 h = 95 km MAG=5.7 D = 100.02 Az = 323.7 (USCGS) pPV:2.0s 42.7nm LmH:19s 3.5/um MLH=5.9

September 1969

Moxa

Day	Phase	h m s	Remarks	
cont. 19.	e(sPPP) B eS BC eSS BC eSSS B LmH B LmV B	01 50 00 54 35 02 01 20 05 00 26.8 34.7	LmV:14s 1.2/um MLV=5.6	
19.	ePKP	A	07 09 11	<u>Fiji Islands</u> 17.40 S 177.21 W H = 06 49 48.9 h = 206 km MAG=4.2 D = 146.09 Az = 349.9 (USCGS) PKPV:(1.3)s 13.1nm
19.	ePKP	A	11 27 23.5	<u>New Hebrides Islands</u> 19.50 S 169.60 E H = 11 08 18.3 h = 256 km MAG=4.3 D = 144.36 Az = 335.8 (USCGS) PKPV:1.0s 11.8nm
19.	ep epP	A A	12 23 38.5 23 50	<u>Kurile Islands</u> 43.67 N 147.95 E H = 12 11 37.9 h = normal MAG=4.5 D = 78.67 Az = 333.4 (USCGS) h = 43 km pPV:1.4s 18.6nm
19.	ePKHKP	A	12 42 31.5	<u>South of Fiji Islands</u> 22.54 S 179.77 W H = 12 23 46.1 h = 600 km MAG=4.7 D = 150.57 Az = 345.2 (USCGS) PKHKPV:1.2s 10.2nm
19.	ePKP2	A	14 48 55	<u>South of Kermadec Islands</u> 34.43 S 178.97 W H = 14 28 13.1 h = 46 km MAG=4.4 (USCGS) D = 162° PKP2V:1.5s 25.1nm
19.	eP	A	20 52 08.5	<u>Kurile Islands</u> 48.23 N 153.41 E H = 20 40 34.3 h = 140 km MAG=5.1 D = 76.17 Az = 336.1 (USCGS) PV:0.9s 11.7nm

September 1969

Moxa

Day	Phase	h m s	Remarks
19.	eP	A 20 59 46	<u>North Atlantic Ocean</u> 58.43 N 32.26 W
	eX	A 59 48.5	H = 20 54 12.4 h = normal MAG=4.5
	LmH	B 21 10.6	D = 26.20 Az = 88.0 (USCGS)
	LmV	B 10.6	PV:0.8s 11.5nm MPV=4.6 XV:1.5s 20.1nm LmH:15s 0.8/um MLH=4.4 LmV:15s 0.8/um MLV=4.5
19.	eP	A 21 29 22	<u>North Atlantic Ocean</u>
	e	A 29 24	H = 21 23 49 (UPP)
	LmH	B 40.3	D = ca. 26°
	LmV	B 40.3	PV:1.5s 22.6nm MPV=4.6 LmH:12s 0.7/um MLH=4.4 LmV:14s 0.8/um MLV=4.5
19.	eP	A 23 27 30	<u>North Atlantic Ocean</u> 58.37 N 32.35 W
	LmH	B 38.4	H = 23 21 59.1 h = normal MAG= 4.6
	LmV	B 38.5	D = 26.25 Az = 87.8 (USCGS) PV:1.6s 22.0nm MPV=4.5 LmH:14s 0.7/um MLH=4.3 LmV:14s 0.6/um MLV=4.4
20.	eP	A 00 03 43	<u>North Atlantic Ocean</u>
	LmH	B 14.5	H = 23 58 12 (UPP)
	LmV	B 14.5	D = ca. 26° LmH:15s 0.4/um MLH=4.1 LmV:15s 0.4/um MLV=4.2
20.	eP	A 00 26 21	<u>North Atlantic Ocean</u> 58.36 N 32.11 W
	e	A 26 25	H = 00 20 50.4 h = normal MAG=4.4
	LmH	C 36.9	D = 26.13 Az = 88.0 (USCGS)
	LmV	B 37.3	LmH:16s 0.3/um MLH=4.0 LmV:15s 0.5/um MLV=4.3
20.	e(P)	A 00 48 49	Probably <u>North Atlantic Ocean</u>
	LmH	B 59.4	D = ca. 26°
	LmV	B 59.4	LmH:17s 0.9/um MLH=4.4 LmV:17s 0.8/um MLV=4.4

September 1969

Moxa

Day	Phase	h m s	Remarks
20.	eP	A 01 02 25	<u>North Atlantic Ocean</u> 58.15 N 32.22 W
	+iX	A 02 29	H = 00 56 51.3 h = normal MAG=5.0
	LmH	B 13.2	D = 26.19 Az = 87.5 (USCGS)
	LmV	B 13.1	PV:1.4s 30.2nm MPV=4.7 XV:1.4s 46.5nm (MXV=4.9) LmH:14s 2.3/um MLH=4.9 LmV:16s 2.5/um MLV=5.0
20.	eP	A 01 13 11	<u>North Atlantic Ocean</u> 58.22 N 32.08 W
	eiX	A 13 14	H = 01 07 38.4 h = normal MAG=5.0
	LmH	B 24.0	D = 26.11 Az = 87.7 (USCGS)
	LmV	B 24.0	PV:1.5s 60.4nm MPV=5.0 XV:1.6s 93.5nm (MPV=5.2) LmH:14.5s 5.9/um MLH=5.3 LmV:15s 6.3/um MLV=5.4
20.	eP	A 01 18 36.5	<u>North Atlantic Ocean</u> 58.13 N 32.07 W
	LmH	B 28.8	H = 01 13 04.6 h = normal MAG=5.2
	LmV	B 29.2	D = 26.11 Az = 87.5 (USCGS) PV:1.4s 41.8nm MPV=4.9 LmH:16.5s 2.8/um MLH=4.9 LmV:16s 2.8/um MLV=5.0
20.	eP	A 03 30 00	<u>North Atlantic Ocean</u> 58.27 N 32.27 W
	LmH	B 40.8	H = 03 24 28.8 h = normal MAG=4.4 (USCGS)
	LmV	B 40.7	D = 26.2 LmH:14s 0.7/um MLH=4.3 LmV:14s 0.7/um MLV=4.4
20.	eP	A 04 57 16	<u>West Pakistan</u> 29.67 N 68.65 E
	epP	A 57 24.5	H = 04 48 45.5 h = 40 km MAG=5.2 D = 47.06 Az = 313.1 (USCGS) h = 37 km PV:1.3s 13.1nm MPV=4.9
20.	+eP1	ABC 05 14 29.8	<u>North Atlantic Ocean</u> 58.30 N 32.19 W
	+iP2	AB 14 31.8	H = 05 08 57.6 h = normal MAG=5.6
	e	C 15 00	D = 26.17 Az = 87.8 (USCGS)



September 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
20.	e(PP) BC	05 15 09	P1V(A):1.5s 135.6nm MP1V(A)=5.4
	e BC	18 20	P2V(A):2.0s 726.0nm MP2V(A)=6.0
	eS BC	18 57	P1V(B):3s 2.24/um MP1V(B)=6.3
	e BC	19 08	P2V(B):9s 5.7/um MP2V(B)=6.2
	eiSa BC	19 30	LmH:16s 91.0/um MLH=6.4
	LmH B	25.3	LmV:16s 96.0/um MLV=6.6
	LmV B	25.3	
20.	ePKIKP A	09 15 27.5	<u>Near North Coast of New Guinea</u> 3.13 S 142.03 E H = 08 56 44.9 h = 38 km MAG=5.1 D = 117.00 Az = 327.0 (USCGS)
20.	eP A	14 15 46.5	<u>Tadzhik SSR</u> 34.44 N 69.77 E
	epP A	15 52.5	H = 14 07 57.8 h = 52 km MAG=5.1
	ePP A	17 33	D = 42.16 Az = 306.3 (USCGS)
	e A	17 36	PV:1.0s 13.8nm MPV=4.6
	LmH C	35.7	pPV:1.4s 23.1nm
	LmV C	35.5	PPH:1.3s 15.3nm MPPH=4.7
			LmH:18s 0.3/um MLH=4.2
			LmV:18s 0.4/um MLV=4.4
20.	e C	15 44 20	<u>East Central Pacific Ocean</u>
	e C	44 44	1.79 N 101.03 W
	eS BC	51 16	H = 15 26 41.5 h = normal MAG=5.5 (USCGS)
	LmH B	16 27.6	D = 94.8
	LmV B	28	LmH:20s 1.3/um MLH=5.4
			LmV:20s 0.9/um MLV=5.3
21.	ePKIKP AB	07 31 06.5	<u>Tonga Islands</u> 17.48 S 174.72 W
	+iPKHKP AB	31 08.8	H = 07 11 53.6 h = 235 km MAG=5.5
	+iPKP2 A	31 10.5	D = 146.52 Az = 352.7 (USCGS)
	epPKP AB	32 06.5	h = 236 km
	eiX A	32 08.5	PKIKP V(A):1.4s 23.3nm
	e A	32 09	PKHKP V(A):1.5s 181.0nm
	e A	34 16	PKP2 V(A):1.4s 135.0nm
			pPKP V(A):1.4s 41.8nm
			XV (A) :1.4s 102.3nm
			PKHKP (B):4s 0.84/um

240

September 1969

Moxa

Day	Phase	h m s	Remarks
21.	LmH B	12 29.7	<u>Near Coast of Peru</u> 15.8 S 74.7 W
	LmV B	33.0	H = 11 28 25.0 h = 59 km MAG=4.7 (USCGS)
			D = 99.8
			LmH:20s 0.7/um MLH=5.1
			LmV:18s 0.4/um MLV=5.0
21.	LmH C	22 32.7	Probably <u>Hindu Kush Region</u> 36.0 N 69.3 E H = 19 09 53.6 h = 72 km MAG=4.7 (USCGS)
			D = 43.3
22.	eP A	01 51 58	<u>Chagos Archipelago</u> 5.63 S 68.15 E
	eX A	52 05.5	H = 01 40 20.8 h = 14 km MAG=5.1
			D = 74.08 Az = 326.5 (USCGS)
			PV:0.9s 13.6nm MPV=5.0
			XV:0.8s 15.4nm
22.	eP AB	01 58 42	<u>Off West Coast of Northern Sumatra</u>
	e A	59 07.5	2.95 N 95.91 E
	e AB	59 32.5	H = 01 46 13.5 h = normal MAG=5.3
	eS BC	02 09 00	D = 84.11 Az = 320.4 (USCGS)
	ePS BC	09 55	PV(A):2.0s 94.0nm MPV(A)=5.7
	eSSS BC	18 30	XV(A):1.6s 49.4nm
	LmH B	39.3	PV(B):12s 0.74/um MPV(B)=5.8
	LmV B	44.6	LmH:21s 4.5/um MLH=5.8
			LmV:17s 2.4/um MLV=5.7
22.	eP A	02 47 44	<u>Kurile Islands</u> 43.56 N 147.52 E
	epP A	47 56	H = 02 35 44.5 h = 42 km MAG=5.0
			D = 78.63 Az = 333.1 (USCGS)
			h = 45km
			PV:1.2s 22.4nm MPV=5.1
			pPV:1.8s 67.5nm
22.	eP A	02 52 27	<u>Kurile Islands</u> 43.31 N 147.44 E
	epP A	52 58.5	H = 02 40 27.0 h = 40 km MAG=4.2
			D = 78.83 Az = 333.1 (USCGS)
			h = 43 km

241

September 1969

Moxa

Day	Phase	h m s	Remarks
22.	eP	A 04 05 06.5	<u>Off W. Coast of Northern Sumatra</u>
	e	A 05 43	2.92 N 95.86 E
	LmH	B 05 08.9	H = 03 52 37.4 h = normal MAG=5.3
	LmV	B 08.8	D = 84.10 Az = 320.4 (USCGS) PV:1.8s 33.8nm MPV=5.3 LmH:16s 0.9/um MLH=5.2 LmV:16s 0.8/um MLV=5.2
22.	eP	A 08 21 52.5	<u>Dodecanese Islands</u> 36.61 N 28.06 E H = 08 17 43.7 h = 92 km MAG=4.6 D = 18.34 Az = 325.1 (USCGS) PV:1.3s 52.4nm MPV=4.7
22.	eP1	AB 13 57 48	<u>Central Mid-Atlantic Ridge</u>
	iP2	AB 57 50	4.98 N 32.63 W
	eX1	A 58 03	H = 13 47 52.2 h = normal MAG=5.7
	eX2	A 58 12	D = 58.61 Az = 31.4 (USCGS)
	eX3	A 58 24	P2V(A):2.4s 346nm MP2V(A)=6.0
	eX4	A 58 42	X1V:2.0s 128.2nm
	eS	C 14 05 55	X2V:2.2s 163.5nm
	e(SS)	C 09 50	X3V:2.2s 240.0nm
	LmH	C 19.3	X4V:2.4s 290.0nm
	LmV	B 21.0	LmH:19s 1.2/um MLH=5.1 LmV:19s 1.4/um MLV=5.2
22.	eP	A 16 24 11	<u>Southern Sinkiang Prov., China</u> 41.39 N 88.30 E H = 16 14 58.8 h = 0 km MAG=5.1 D = 51.81 Az = 308.0 (USCGS) Underground Explosion (UPP)
22.	eP	A 22 12 10	<u>Central Mid-Atlantic Ridge</u>
	e	A 12 16	0.49 N 26.19 W
	eS	C 20 16	H = 22 02 08.8 h = normal MAG=4.8
	LmH	B 31.3	D = 59.37 Az = 27.0 (USCGS)
	LmV	B 36.8	LmH:20s 1.1/um MLH=5.0 LmV:16s 0.7/um MLV=4.9

242

September 1969

Moxa

Day	Phase	h m s	Remarks
22.	ePn	A 23 23 14.5	<u>Germany</u> 48.2 N 8.9 E
	e	A 23 49	H = 23 22 21 h = 0 km D = 3.02 Az = 36 (ISC)
22.	ePg	A 23 46 12	<u>Germany, Swabian Jura Region</u>
	i	A 46 16	48.2 N 9.1 E
	iSg	A 46 49.5	H = 23 45 17 (BCIS) D = 2.9
23.	eSS	C 02 01 55	<u>Easter Island Region</u> 27.3 S 113.4 W
	LmH	B 47.0	H = 01 22 03.3 h = normal MAG=5.3 (USCGS)
	LmV	B 49.0	D = 132.6 LmH:16s 0.7/um LmV:16s 0.5/um
23.	eP	A 02 35 36	<u>Kurile Islands</u> 45.46 N 151.98 E H = 02 23 39.3 h = 45 km MAG=4.5 D = 78.31 Az = 335.5 (USCGS) PV:1.2s 12.2nm MPV=4.9
	e(P)	A 14 49 48	<u>Northern Columbia</u> 6.86 N 72.98 W
23.	e	A 50 07	H = 14 37 42.9 h = 155 km MAG=3.8 D = 81.31 Az = 39.9 (USCGS)
	ePP	C 22 54 30	<u>Off Coast of Jalisco, Mexico</u>
	eS	BC 23 01 40	18.66 N 107.07 W
	ePS	BC 02 52	H = 22 37 22.5 h = normal MAG=4.9 (USCGS)
	eSS	BC 07 40	D = 92.5 LmH:17s 4.5/um MLH=6.0 LmV:16s 2.8/um MLV=5.8
24.	eP1	AB 04 04 34	<u>North Atlantic Ridge</u> 52.50 N 31.85 W
	eiP2	A 04 35.5	H = 03 58 56.6 h = normal MAG=5.1
	iP3	A 04 38	D = 26.78 Az = 76.4 (USCGS)
	ePP	B 05 20	P3V:1.6s 143.0nm MP3V=5.5
	ei	A 05 22	LmH:16s 12.4/um MLH=5.6
	eS	B 09 12	LmV:12s 5.9/um MLV=5.5
	LmH	B 13.8	
	LmV	B 15.6	

243

September 1969

Moxa

Day	Phase	h m s	Remarks
24.	+iP1	A 04 26 30.8	<u>North Atlantic Ridge</u> 52.56 N 31.84 W
	+iP2	A 26 33	H = 04 20 52.9 h = normal MAG=5.2
	LmH	E 35.9	D = 26.76 Az = 76.5 (USCGS)
	LmV	E 37.5	P1V:1.2s 69.1nm MP1V=5.3 P2V:1.3s 36.4nm MP2V=5.3 LmH:14s 4.5/um MLH = 5.2 LmV:11s 3.2/um MLV = 5.3
24.	eiP1	AB 18 13 09	<u>North Atlantic Ridge</u> 15.24 N 45.78 W
	iP2	A 13 14.2	H = 18 03 19.0 h = normal MAG=5.8
	eiP3	A 13 17.5	D = 57.82 Az = 39.3 (USCGS)
	iP4	A 13 20	P1V(A):1.6s 242.0nm MP1V(A)=6.0
	eiP5	A 13 24	P2V: 1.6s 197.5nm
	iPcP	B 14 00	P3V: 2.0s 411.0nm
	ei	EC 14 40	P4V: 1.8s 473.0nm
	eiS	B 21 12	P5V: 2.0s 615.0nm MP5V = 6.3
	eSS	B 24 45	PV(B): 9s 4.15/um MPV(B) = 6.5
	LmH	B 39.6	LmH:16s 34.2/um MLH = 6.6
	LmV	E 41.7	LmV:17s 51.2/um MLV = 6.8
ePKPPKP	A 43 07		
24.	eP	A 19 10 49	<u>North Atlantic Ridge</u> 15.27 N 45.69 W
	e	A 10 55	H = 19 00 57.1 h = normal MAG=4.7 D = 57.74 Az = 39.3 (USCGS)
24.	eP	A 19 16 53	<u>Central Mid-Atlantic Ridge</u> 0.79 N 27.17 W H = 19 06 51.5 h = normal MAG=4.7 D = 59.56 Az = 27.6 (USCGS)
24.	ePKP	A 20 40 04.5	<u>Fiji Islands</u> 18.17 S 177.99 W H = 20 21 14.6 h = 475 km MAG=4.7 D = 146.71 Az = 348.8 (USCGS)
25.	eP	A 00 54 20	<u>North Atlantic Ridge</u> 15.27 N 45.50 W H = 00 44 30.7 h = normal MAG=4.5 D = 57.62 Az = 39.3 (USCGS)

244

September 1969

Moxa

Day	Phase	h m s	Remarks
25.	ePKP	A 07 24 02	<u>New Hebrides Islands</u> 19.33 S 169.22 E H = 07 04 46.0 h = 167 km MAG=4.6 D = 144.06 Az = 335.6 (USCGS)
25.	eP	A 11 49 09	<u>Ionian Sea</u> 37.2 N 20.1 E
	e	A 49 17	H = 11 45 34.3 h = 33 km MAG=4.2 D = 14.92 Az = 338 (ISC) PV:0.9s 9.7nm MPV= ca. 4 1/2
25.	eP	A 21 45 15	<u>Fox Islands, Aleutian Is.</u> 52.24 N 169.37 W H = 21 33 16.9 h = 5 km MAG=4.5 D = 77.49 Az = 359.4 (USCGS) PV:1.2s 10.3nm MPV=4.9
26.	e	A 01 21 50	<u>Fox Islands, Aleutian Is.</u> 52.32 N 169.26 W H = 01 09 40.3 h = 8 km MAG=4.6 D = 77.41 Az = 359.4 (USCGS)
26.	eP	A 05 02 22.5	<u>Red Sea</u> 16.43 N 40.98 E
	e	A 02 26	H = 04 54 35.7 h = 25 km MAG=5.1
	e	A 02 30	D = 41.48 Az = 331.9 (USCGS)
	eS	C 08 38	PV:1.8s 67.6nm MPV=5.1
	eSS	C 11 44	LmH:12s 0.9/um MLH=4.8
	LmV	B 27.2	LmV:12s 1.0/um MLV=5.0
26.	+iP	AB 07 04 43.5	<u>Southwestern Russia</u> 45.89 N 42.47 E
	e	A 06 33	H = 06 59 55.8 h = 0 km MAG=5.6 (USCGS) D = 21.0 PV:1.3s 229.0nm MPV=5.4
26.	eP	A 11 36 12.5	<u>Southern Alaska</u> 60.12 N 152.99 W H = 11 25 17.6 h = 97 km MAG=4.7 D = 68.89 Az = 10.4 (USCGS) PV:0.7s 19.2nm MPV=5.1

245

September 1969

Moxa

Day	Phase	h m s	Remarks	
26.	+ePKP epPKP2	A A	20 47 14.5 47 53.5	<u>Loyalty Islands</u> 22.29 S 171.13 E H = 20 27 44.7 h = 120 km MAG=4.7 D = 147.47 Az = 335.5 (USCGS) h = 147 km PV:1.1s 48.4nm
26.	ePn e eSn e LmH LmV	A A A A B B	23 42 48 43 07 44 10 44 18 46.8 46.8	Probably <u>Middle-Italy</u> ca. 43° N ca. 13° E D = ca. 8.1° LmH:12s 0.6/um LmV:12s 0.7/um
27.	+eP esP e	AB A A	04 14 12 14 37 16 24	<u>Kurile Islands</u> 43.89 N 146.96 E H = 04 02 16.3 h = 47 km MAG=5.4 D = 78.15 Az = 332.8 (USCGS) PV:1.1s 60.5nm MPV=5.6
27.	eP esP	A A	09 02 17.5 02 36	<u>Kurile Islands</u> 49.62 N 155.95 E H = 08 50 38.4 h = 50 km MAG=4.9 D = 75.56 Az = 337.5 (USCGS)
27.	ePKIKP eipPKP ePP LmH LmV	A A A B B	09 22 57 23 08.5 24 38 10 12.8 13.5	<u>South Shetland Islands</u> 60.88 S 55.96 W H = 09 04 02.8 h = normal MAG=5.8 D = 123.63 Az = 45.0 (USCGS) PKIKPV:1.1s 14.1nm pPKPV: 1.1s 40.3nm LmH:20s 2.0/um MLH=5.8 LmV:19s 2.6/um MLV=5.9
27.	eP LmH LmV	A B B	17 02 55 13.8 14.7	<u>Turkey</u> 40.1 N 41.0 E H = 16 57 48 MAG=4.4 D = 23.03 Az = 307 (IAO) LmH:19s 1.2nm MLH=4.3 LmV:16s 0.8nm MLV=4.4

246

September 1969

Moxa

Day	Phase	h m s	Remarks	
27.	ePKHKP	A	20 50 38	<u>Fiji Islands</u> 20.30 S 177.99 W H = 20 31 49.3 h = 525 km MAG=4.3 D = 148.78 Az = 348.2 (USCGS) PKHKPV:1.5s 40.2nm
28.	ePKIKP iPKHKP epPKP2 e e	A A A A A	10 36 49 36 56.5 37 04 37 08 37 18.5	<u>South of Fiji Islands</u> 23.82 S 176.66 W H = 10 17 08.3 h = 78 km MAG=5.0 D = 152.46 Az = 348.6 (USCGS) PKIKPV:1.7s 24.3nm PKHKPV:1.5s 60.3nm
28.	LmV	C	18 58	<u>Molucca Passage</u> 1.9 N 126.4 E H = 17 58 41.7 h = normal MAG=5.1 (USCGS) D = 104.1 LmV:30s 0.8/um MLV=5.1
28.	iP e e ePP	A A A A	19 01 32 01 36 01 57 03 15.5	<u>Tadzhik-Sinkiang Border Region</u> 39.26 N 73.55 E H = 18 53 28.6 h = 62 km MAG=5.0 D = 44.06 Az = 306.1 (USCGS) e(A) 02 12 e(A) 03 21
28.	+eP1 iP2 iP3 iP4 i iS LmH LmV	AB A A A A BC B B	22 58 28.5 58 30.5 58 32.5 58 36.5 58 45 23 02 03 07.2 07.3	<u>Crete</u> 34.33 N 25.11 E H = 22 54 06.6 h = 19 km MAG=5.4 D = 19.05 Az = 332.9 (USCGS) P2V:1.0s 53.2nm MP2V=4.7 P3V:1.2s 159.0nm MP3V=5.1 P4V:(3.0)s 184.0nm MP4V=5.8 LmH:13s 22.2/um MLH=5.7 LmV:13s 27.9/um MLV=5.9
29.	LmV	B	09 13.1	<u>Southern Sinkiang Prov., China</u> 40.72 N 89.30 E H = 08 40 26.2 (h = 33 km) (ISC) MAG=4.7 (USCGS) D = 52.8° Atmospheric Nuclear Explosion (UPP)

247

September 1969

Moxa

Day	Phase	h m s	Remarks
29.	eP A	10 31 26	<u>Norwegian Sea</u> 65.06 N 6.55 E H = 10 27 49.1 h = 6 km MAG=4.8 D = 14.69 Az = 167.2 (USCGS) PV:1.4s 27.9nm
	eS A	34 14	
29.	eP A	12 16 54	<u>Crete</u> 34.33 N 24.96 E H = 12 12 33.4 h = normal MAG=4.5 D = 18.99 Az = 333.2 (USCGS)
29.	ePKIKP A	16 38 21	<u>Banda Sea</u> 7.20 S 128.75 E H = 16 20 00.4 h = 145 km MAG=5.7 D = 112.59 Az = 322.1 (USCGS) PKIKPV:1.9s 30.3nm pPKPV: 1.9s 53.1nm PPV: 2.0s 214.0nm MPPV=6.4
	e A	38 54	
	epPKP AB	39 06	
	ePP A	39 15	
29.	eP AB	18 10 40	<u>Kurile Islands</u> 43.42 N 147.69 E H = 17 58 38.8 h = 32 km MAG=5.4 D = 78.82 Az = 333.2 (USCGS) PV:1.5s 82.9nm MPV=5.5 LmH:22s 3.7/um MLH=5.7 LmV:16s 2.0/um MLV=5.6
	epP A	10 52	
	LmH B	43.0	
	LmV B	50.2	
29.	e(pP) A	18 15 52.5	<u>Kurile Islands</u> 43.49 N 147.33 E H = 18 03 39.6 h = normal MAG=4.4 D = 78.63 Az = 333.0 (USCGS)
29.	eP A	20 08 34	<u>Burma</u> 24.77 N 95.33 E H = 19 57 50.3 h = 119 km MAG=4.9 D = 67.38 Az = 316.7 (USCGS)
29.	eP1 ABC	20 15 58	<u>Republic of South Africa</u> 32.91 S 19.66 E H = 20 03 32.8 h = normal MAG=5.9 D = 83.49 Az = 354.9 (USCGS) P1V(A):1.6s 22.0nm MP1V(A)=5.1 P2V:2.0s 94.0nm MP2V =5.7 XV:2.2s 229.0nm MXV =6.0 PV(B):16s 1.4/um MPV(B) =6.0
	eiP2 A	16 00	
	eiX A	16 13	
	ePP C	19 08	
	e C	20 40	
	e C	22 30	
	eS C	26 24	
	eSP C	27 10	

248

September 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
29.	eSS C	20 31 50	LmH:20.5s 21.4/um MLH=6.5 LmV:18.5s 19.0/um MLV=6.5
	LmH B	51.3	
	LmV B	53.8	
29.	ePg A	22 00 29	<u>Germany Swabian Jura</u> 48.3 N 9.1 E H = 21 59 30 (BCIS) D = 2.8 H = 21 59 30 h = 0 km 48.0 N 8.8 E D = 3.22 Az = 34 (ISC)
	eSg A	01 00.5	
29.	eP A	23 53 39	<u>Crete</u> 34.1 N 25.1 E H = 23 49 13 (BCIS) D = 19.26 Az = 333 h = 0 km (ISC)
30.	eP A	02 44 09	<u>Crete</u> 34.21 N 25.24 E H = 02 39 45.2 h = 14 km MAG=4.5 D = 19.20 Az = 332.9 (USCGS)
30.	iPKP2 A	04 31 53	<u>Kermadec Islands</u> 31.95 S 177.88 W H = 04 11 16.1 h = normal MAG=5.4 (USCGS) D = 160.0 PKP2V:1.5s 57.8nm
	e A	31 56.3	
	e A	32 03.5	
30.	ePKIKP ABC	18 11 38	<u>Kermadec Islands</u> 31.93 S 178.02 W H = 17 51 41.8 h = normal MAG=5.4 D = 159.98 Az = 341.9 (USCGS) PKIKPV(A):1.9s 98.5nm LmH:16s 3.2/um MLH=6.2 LmV:15.5s 3.1/um
	ePKP2 ABC	12 17	
	ei A	12 31	
	ePP BC	15 56	
	ePS BC	26 25	
	ePPS EC	29 25	
	LmH B	19 47.8	
	LmV B	47.0	
30.	ePKP A	19 12 23	<u>Samoa Islands</u> 16.13 S 172.58 W H = 18 52 52.4 h = 75 km MAG=5.1 D = 145.41 Az = 355.3 (USCGS) PKPV:1.6s 65.9nm

249

September 1969

Moxa

Day	Phase	h m s	Remarks
30.	e(pP) A	23 24 29	<u>Burma-India Border Region</u> 25.64 N 94.71 E H = 23 13 28.5 h = 20 km MAG=5.4 D = 66.37 Az = 316.4 (USCGS)
30.	ePKP2 A e A	24 18 12 18 33	<u>South of Kermadec Islands</u> 32.23 S 177.64 W H = 23 57 36.4 h = 37 km MAG=5.3 (USCGS) D = 160.2 PKP2V:1.8s 47.3nm

250

October 1969

Moxa

Day	Phase	h m s	Remarks
1.	+iP A ePn A	04 10 16.5 12 19.5	<u>Eastern Kazakh SSR</u> 49.82 N 78.21 E H = 04 02 57.6 h = 0 km MAG=5.3 D = 41.30 Az = 297.7 (USCGS) PV:0.7s 72.9nm MPV=5.5 Probably underground explosion
1.	eP A Pm A eiSKS C eS C iSP C eiSPP C eS C eSSS C LmH B LmV B	05 19 18 19 24 30 00 30 44 32 00 32 44 37 30 40 45 06 00.3 03.9	<u>Peru</u> 11.88 S 75.13 W H = 05 05 43.2 h = 4 km MAG=5.9 D = 97.02 Az = 39.8 (USCGS) PV:1.2s 57.5nm MPV=5.8 PmV:2.4s 228.0nm MPmV=6.4 LmH:20s 11.1/um MLH=6.4 LmV:16.5s 12.8/um MLV=6.5
1.	eP A	08 41 49	<u>Peru</u> 11.78 S 75.05 W H = 08 28 14.0 h = 3 km MAG=5.8 D = 96.90 Az = 39.8 (USCGS)
1.	eP A	17 22 53	<u>Vancouver Island</u> 48.51 N 126.49 W H = 17 11 11.3 h = 23 km MAG=4.7 (USCGS) D = 74.9 PV:0.9s 13.6nm MPV=5.0
1.	eP1 A eP2 A Pm A i B ePP C eSKS B eS C ePS C eSS C eSSS C LmH B LmV B	17 24 11 24 13 24 13.5 24 14 27 50 34 35 35 15 36 32 41 45 45.2 18 00.0 00.2	<u>Off Coast of Ecuador</u> 0.84 N 85.01 W H = 17 10 56.5 h = normal MAG=5.5 D = 93.56 Az = 39.3 (USCGS) P2V:1.8s 50.7nm MP2V=5.6 PmV:2.2s 92.5nm MPmV=5.8 LmH:22s 8.0/um MLH=6.1 LmV:23s 8.2/um MLV=6.1

251

October 1969

Moxa

Day	Phase	h m s	Remarks
1.	eP A	17 56 08	<u>North of Ascension Island</u> 0.02 N 17.35 W H = 17 46 29.4 h = normal MAG=5.0 D = 56.13 Az = 21.8 (USCGS) PV:1.8s 40.5nm MPV=5.2
1.	eP A e A	20 38 44.5 38 57.5	<u>Turkey</u> 39.24 N 40.45 E H = 20 33 39.3 h = 39 km MAG=4.8 D = 23.23 Az = 308.9 (USCGS) PV:1.4s 14.0nm MPV=4.3
1.	ePKP2 A	20 50 40	<u>Kermadec Islands</u> 27.28 S 176.48 W H = 20 30 22.5 h = normal MAG=5.2 D = 155.87 Az = 347.3 (USCGS) PKP2V:0.7s 19.2nm
1.	eP A	22 55 59.5	<u>Hindu Kush Region</u> 36.48 N 70.87 E H = 22 48 12.8 h = 230 km MAG=4.9 D = 44.04 Az = 308.1 (USCGS) PV:1.4s 25.6nm MPV=4.5
2.	e A LmH B LmV E	05 09 24 44.3 50.0	<u>Northern California</u> 38.49 N 122.70 W H = 04 56 45.5 h = 2 km MAG=5.2 D = 82.59 Az = 27.3 (USCGS) LmH:19s 0.9/um MLH=5.1 LmV:16s 1.0/um MLV=5.3
2.	-iPKHKP A eiPKP2 A	04 19 02.3 19 09.8	<u>Fiji Islands</u> 21.78 S 179.43 W H = 04 00 17.7 h = 599 km MAG=4.9 D = 149.91 Az = 345.9 (USCGS) PKHKPV:1.3s 41.5nm
2.	+iP A ePKPPKP A LmV C LmH C	22 17 55.5 44 46 52.7 54.9	<u>Rat Islands, Aleutian Is.</u> 51.42 N 179.18 E H = 22 06 00.0 h = 1 km MAG=6.5 D = 77.77 Az = 351.9 (USCGS) 51°25'01.6" N 179°10'56.3"E (USAEC) PV:1.4s 288.0nm MPV=6.2 LmH(C):18s 1.2/um MLH=5.3

October 1969

Moxa

Day	Phase	h m s	Remarks
2.	eP A	23 17 06	<u>Greece</u> 38.51 N 22.47 E H = 23 13 47.1 h = 59 km MAG=4.5 D = 14.36 Az = 331.1 (USCGS) PV:1.5s 20.1nm
3.	ePKIKP A ePKHKP A eiPKP2 A e A LmH C	01 53 18 53 39 54 01 54 08 02 29.5	<u>South of Kermadec Islands</u> 32.85 S 178.03 W H = 01 33 19.8 h = 26 km MAG=5.7 D = 160.85 Az = 341.0 (USCGS) PKP2V:1.6s 71.8nm LmH(C):40s 0.6/um MLH=5.0
3.	-eiP A LmH C LmV C	02 03 21.5 59.9 03 00.3	<u>Near East Coast of Kamchatka</u> 51.93 N 157.76 E H = 01 51 55.4 h = 91 km MAG=5.3 D = 73.85 Az = 338.3 (USCGS) PV:1.2s 65.0nm MPV=5.0 LmH(C):28s 0.6/um LmV(C):28s 0.7/um
3.	eP A	15 12 56.5	<u>Kodiak Island</u> 56.64 N 152.27 W H = 15 01 32.4 h = normal MAG=4.8 D = 72.25 Az = 10.7 (USCGS) PV:1.5s 17.6nm MPV=5.0
3.	ePKP A e A	15 39 13 39 25	<u>New Hebrides Islands</u> 19.16 S 168.76 E H = 15 19 43.9 h = 43 km MAG=4.8 D = 143.72 Az = 335.3 (USCGS) PKPV:1.3s 10.9nm
3.	eP A	15 52 48	<u>Southern Sumatra</u> 3.69 S 101.85 E H = 15 39 43.5 h = 95 km MAG=5.6 D = 92.97 Az = 320.4 (USCGS) PV:1.4s 18.6nm MPV=5.2
4.	eP A	04 09 10	<u>Kurile Islands</u> 47.96 N 156.92 E H = 03 57 16.8 h = normal MAG=4.8 D = 77.35 Az = 338.2 (USCGS)

October 1969

Moxa

Day	Phase	h m s	Remarks
4.	eP	A 10 19 34	<u>South of Honshu, Japan</u> 32.48 N 141.22 E H = 10 06 56.6 h = 42 km MAG=4.5 D = 86.04 Az = 330.5 (USCGS) PV:1.4s 18.6nm MPV=5.0
4.	eSg e	A 10 52 42 A 52 49	<u>France</u> 46.6 N 4.5 E H = 10 49 13 (BCIS) D = 6.2
5.	+iPKHKP	A 13 29 30	<u>Fiji Islands</u> 20.91 S 178.73 W H = 13 10 42.6 h = 550 km MAG=4.6 D = 149.23 Az = 347.1 (USCGS) PKHKPV:1.8s 47.3nm
5.	iP1 eP2	A 16 47 52 A 48 01	<u>Mindanao, Philippine Islands</u> 7.10 N 123.68 E H = 16 34 15.8 h = 33 km MAG=5.4 D = 98.21 Az = 323.4 (USCGS) P1V:1.4s 51.2nm MP1V=6.1 P2V:2.0s 34.2nm MP2V=5.7
5.	iPKP eX	A 21 06 03.5 A 06 28	<u>Loyalty Islands</u> 21.79 S 170.67 E H = 20 46 32.5 h = 107 km MAG=5.3 D = 146.84 Az = 335.4 (USCGS) PKPV:1.3s 153.0nm XV:3.0s 254.0nm
5.	eP	A 23 18 05	<u>South of Honshu, Japan</u> 32.46 N 141.22 E H = 23 05 26.7 h = 43 km MAG=4.7 (USCGS) D = 86.0
6.	e	A 00 57 28	<u>Central Mid-Atlantic Ridge</u> 7.40 N 35.65 W H = 00 47 25.5 h = normal MAG=4.6 D = 58.19 Az = 33.4 (USCGS) PV:1.4s 14.0nm

October 1969

Moxa

Day	Phase	h m s	Remarks
6.	e	A 04 06 22	<u>Samoa Islands</u> 15.36 S 172.92 W H = 03 46 39.0 h = 43 km MAG=4.5 D = 144.61 Az = 355.0 (USCGS)
6.	+iP LmH LmV	A 13 00 58.5 C 43.5 B 43.5	<u>Luzon, Philippine Islands</u> 14.97 N 120.06 E H = 12 48 05.0 h = 59 km MAG=5.6 D = 89.82 Az = 322.8 (USCGS) PV:1.2s 75.2nm MPV=5.8 LmH(C):19s 1.2/um MLH=5.3 LmV:18s 1.1/um MLV=5.4
6.	eP	A 20 32 42.5	<u>Kurile Islands</u> 43.84 N 148.15 E H = 20 20 42.9 h = normal MAG=4.8 D = 78.59 Az = 333.5 (USCGS) PV:1.0s 15.7nm MPV=5.0
6.	eP1 eP2 e	A 22 00 08 A 00 16 A 04 17	<u>Mindanao, Philippine Islands</u> 7.22 N 123.75 E H = 21 46 32.7 h = normal MAG=5.2 D = 98.15 Az = 323.4 (USCGS) P2V:1.5s 40.2nm MPV=5.9
7.	e	A 04 01 39	<u>Sunda Strait</u> 6.08 S 104.20 E H = 03 47 51.8 h = 15 km MAG=5.2 D = 96.30 Az = 320.2 (USCGS)
7.	eP1 eiP2 iP3 LmH LmV	A 05 13 05 A 13 08.5 A 13 13 B 18.6 B 22.6	<u>Turkey</u> 39.19 N 28.37 E H = 05 09 11.3 h = 14 km MAG=5.0 D = 16.45 Az = 319.6 (USCGS) P1V:1.5s 22.6nm MP1V=5.1 P2V:1.5s 106.0nm MP2V=5.8 P3V:1.3s 78.5nm MP3V=5.7 LmH:16s 4.3/um MLH=4.7 LmV:12s 3.0/um MLV=4.9
7.	eP	A 18 52 56	<u>Turkey</u> 39.16 N 28.67 E H = 18 49 02.2 h = 39 km MAG=4.5 D = 16.62 Az = 319.2 (USCGS)



October 1969

Moxa

Day	Phase	h m s	Remarks
7.	eP A	22 24 34	<u>Andreanof Islands, Aleutian Is.</u> 51.22 N 179.64 W H = 22 12 39.1 h = 45 km MAG=4.8 D = 78.07 Az = 352.7 (USCGS) PV:0.8s 15.4nm MPV=5.2
8.	ePP A	03 00 54	<u>Chile-Bolivia Border Region</u> 20.04 S 68.95 W H = 02 43 24.7 h = 120 km MAG=4.9 (USCGS) D = 99.3
8.	+eP A	14 42 18	<u>Southern Nevada</u> 37.26 N 116.45 W H = 14 30 00.0 h = 0 km MAG=5.5 D = 81.28 Az = 30.5 (USCGS) Nevada test site "Pipkin" 37°15'24" N 116°26'27" W (USAEC) PV:1.2s 40.6nm MPV=5.4
8.	ePKHKP A	16 00 13	<u>Fiji Islands</u> 21.29 S 179.52 W H = 15 41 33.4 h = 639 km MAG=4.7 D = 149.42 Az = 346.0 (USCGS) PKHKPV:1.1s 22.2nm
8.	ePKHKP A	22 17 48	<u>West of Macquarie Island</u> 55.79 S 147.45 E H = 21 57 51.9 h = normal MAG=5.2 D = 153.42 Az = 277.5 (USCGS) PKHKPV:1.2s 14.2nm
9.	e A	03 33 27	<u>Northern Italy</u> 45.02 N 7.72 E H = 03 31 35.5 h = normal MAG=4.2 D = 6.21 Az = 23.6 (USCGS)
	e A	33 32	
	eiPg A	33 35	
	iSn A	34 15	
	iSg A	35 00	
9.	eSg A	07 41 24	<u>Yugoslavia</u> 45.8 N 14.1 E H = 07 38 38 (BCIS) D = 5.1

256

October 1969

Moxa

Day	Phase	h m s	Remarks
9.	eP1 A	08 11 37	<u>Fox Islands, Aleutian Is.</u>
	eiP2 A	11 38	52.32 N 169.51 W
	e A	11 51	H = 07 59 41.3 h = 22 km MAG=5.1 (USCGS)
	LmH C	58.6	D = 77.5
	LmV C	59.4	P2V:1.8s 71.0nm MPV=5.5 LmH(C):16.5s 1.2/um MLH=5.3 LmV(C):18s 0.9/um MLV=5.2
9.	eP1 A	14 19 41.5	<u>Kurile Islands</u> 43.47 N 147.47 E
	eP2 A	19 53.5	H = 14 07 40.7 h = 30 km MAG=4.8
	e A	20 00	D = 78.69 Az = 333.1 (USCGS)
	LmH C	52.0	P1V:1.3s 24.0nm MP1V=5.1
	LmV C	59.0	P2V:1.4s 34.9nm MP2V=5.2 LmH(C):22s 0.6/um MLH=4.9
9.	eP A	24 09 11	<u>Kurile Islands</u> 43.97 N 148.64 E H = 23 57 10.7 h = normal MAG=4.6 D = 78.62 Az = 333.7 (USCGS) PV:1.4s 16.3nm MPV=4.9
10.	eP A	00 25 42.5	<u>Kurile Islands</u> 44.0 N 149.0 E
	e A	26 15	H = 00 13 42.3 h = 43 km MAG=4.8 (USCGS)
	LmH C	01 04.5	D = 78.5
	LmV C	05.0	PV:2.1s 38.3nm MPV=5.1 LmH(C):14s 0.7/um MLH=5.1 LmV(C):16s 0.5/um MLV=5.0
10.	eP A	04 19 04.5	<u>El Salvador</u> 13.20 N 89.72 W
	e A	19 13	H = 04 06 24.2 h = 71 km MAG=4.6
	LmV C	05 03.1	D = 86.96 Az = 38.7 (USCGS) LmV(C):16s 0.3/um
10.	eP A	17 22 28	<u>Ryukyu Islands</u> 29.32 N 130.30 E
	LmV B	18 04.0	H = 17 09 57.5 h = 15 km MAG=4.9
	LmH B	04.7	D = 83.75 Az = 325.8 (USCGS) PV:1.8s 23.6nm MPV=5.1 LmV:18s 0.8/um MLV=5.1 LmH:14s 0.8/um MLH=5.3

257

October 1969

Moxa

Day	Phase	h m s	Remarks
11.	e(PKP2) A	11 32 50	<u>Kermadec Islands</u> 27.02 S 176.50 W H = 11 12 34.9 h = 83 km MAG=4.6 (USCGS) D = 155.6
12.	ePKHKP A e A	06 03 44 03 50	<u>Tonga Islands</u> 20.96 S 174.62 W H = 05 43 55.0 h = normal MAG=4.4 D = 149.97 Az = 352.1 (USCGS)
12.	eP1 A eiP2 A LmH B LmV B	13 37 16 37 21 41.8 42.9	<u>Greece-Albania Border Region</u> 39.74 N 20.44 E H = 13 34 15.8 h = 14 km MAG=5.1 D = 12.55 Az = 333.3 (USCGS) P1V:0.8s 34.6nm P2V:0.9s 54.6nm LmH:10s 3.4/um MLH=4.6 LmV:14s 3.4/um
12.	-eP A	14 33 27	<u>Near East Coast of Kamchatka</u> 55.24 N 161.94 E H = 14 22 11.6 h = 69 km MAG=4.6 D = 71.62 Az = 340.6 (USCGS) PV:1.4s 21.0nm MPV=5.1
12.	ePKP A	16 23 50	<u>Loyalty Islands</u> 21.00 S 169.95 E H = 16 04 13.5 h = normal MAG=4.7 D = 145.85 Az = 335.2 (USCGS)
12.	e(P) A e A	18 57 11 57 21	<u>Southern Italy</u> 39.89 N 15.01 E H = 18 54 34.7 h = 288 km MAG=4.0 D = 11.01 Az = 348.6 (USCGS) PV:1.0s 11.8nm
13.	+eP A e A i A eS C e B LmH B LmV B	01 05 29.5 05 31 05 40 08 16 08 40 10.0 11.2	<u>Greece-Albania Border Region</u> 39.86 N 20.64 E H = 01 02 28.5 h = 8 km MAG=5.6 D = 12.51 Az = 332.6 (USCGS) PV:1.0s 98.5nm LmH:9.5s 30.7/um MLH=5.6 LmV:14s 28.6/um

258

October 1969

Moxa

Day	Phase	h m s	Remarks
13.	e A e A e A	01 45 38 47 49 47 59	<u>Greece-Albania</u> H = 01 42 00 (UPP)
13.	e(P) A e A	01 52 56 52 57	<u>Greece-Albania</u> H = 01 49 50 (UPP)
13.	+iPKP A +i B epPKP B ePP B eiSS C esSS C eSSS C LmH B LmV B	07 15 06 15 09 16 12 18 20 36 45 38 22 41 50 08 09.6 16.5	<u>New Hebrides Islands</u> 18.85 S 169.31 E H = 06 56 01.6 h = 246 km MAG=5.9 D = 143.66 Az = 335.9 (USCGS) PKPV:1.3s 96.0nm LmH:18.5s 3.5/um LmV:19s 1.7/um
13.	ePKP A i A e A	09 48 14 48 17 48 24	<u>Tonga Islands</u> 18.80 S 173.43 W H = 09 28 33.0 h = 33 km MAG=5.0 D = 147.98 Az = 353.9 (USCGS) PKPV:1.8s 33.8nm
14.	ePKP A	00 52 34	<u>Loyalty Islands</u> 21.86 S 170.50 E H = 00 33 00.6 h = 79 km MAG=4.8 D = 146.84 Az = 335.2 (USCGS) PKPV:1.1s 24.2nm
14.	e A	04 24 20	Probably <u>Kermadec Islands</u>
14.	eP A	04 37 54	<u>South Indian Ocean</u> 25.07 S 67.77 E H = 04 24 55.6 h = normal MAG=4.9 D = 90.19 Az = 328.1 (USCGS)
14.	+iP A LmH B LmV B	07 06 11.5 18.2 21.6	<u>Novaya Zemlya</u> 73.40 N 54.81 E H = 07 00 06.2 h = 0 km MAG=6.1 D = 29.31 Az = 242.9 (USCGS) LmH:12s 3.7/um MLH=5.2 LmV: 8s 1.8/um MLV=5.2 Probably underground explosion

259

October 1969

Moxa

Day	Phase	h m s	Remarks
14.	LmH B	13 20.0	Probably, <u>North Atlantic Ridge</u> (USCGS)
14.	eP A	20 50 35.5	<u>Sea of Japan</u> 37.91 N 135.06 E H = 20 39 11.6 h = 371 km MAG=4.7 D = 78.80 Az = 327.2 (USCGS) PV:1.4s 37.2nm MPV=5.0
14.	-iP A	22 57 58.5	<u>South of Alaska</u> 52.62 N 162.73 W H = 22 46 04.8 h = 15 km MAG=5.1 D = 77.00 Az = 3.7 (USCGS) PV:1.1s 30.2nm MPV=5.3
14.	ePKIKP A	24 19 13	<u>Kermadec Islands</u> 26.97 S 176.46 W H = 23 59 26.0 h = 61 km MAG=5.3 D = 155.57 Az = 347.5 (USCGS)
	ePKHKP A	19 23	
	ePKP2 A	19 39	
	ePKP2 C	19 40	
	e A	19 50	
	ePP A	23 17	
15.	ePKP2 A	01 28 29	<u>Kermadec Islands</u> 27.24 S 176.48 W H = 01 08 14.9 h = 58 km MAG=4.9 D = 155.83 Az = 347.4 (USCGS)
16.	eP A	18 55 32	<u>Arctic Ocean</u> 80.77 N 112.08 W H = 18 47 15.9 h = normal MAG=4.5 D = 45.26 Az = 48.2 (USCGS)
16.	ePKHKP A	21 04 55	<u>Tonga Islands</u> 19.66 S 174.63 W H = 20 45 09.8 h = normal MAG=4.8 D = 148.68 Az = 352.3 (USCGS)
17.	-eiP A	01 36 00	<u>Burma-India Border Region</u> 23.05 N 94.70 E H = 01 25 12.4 h = 134 km MAG=6.0 D = 68.23 Az = 317.1 (USCGS) PV:2.0s 795.0nm MPV=6.2 LmV:12s 2.8/um LmH:16s 5.9/um
	-ipP A	36 29.5	
	ei A	36 46	
	eiPP A	38 32	
	+ipP C	39 00	
	ePPP C	40 13	
	-iS C	44 44	
	-iS B	44 47	

October 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
17.	isS C	01 45 42	
	iSSS B	52 28	
	e(SKKS) A	02 02 36	
	LmV B	04.2	
	LmH B	04.5	
18.	+iP A	01 25 59.7	<u>Honshu, Japan</u> 39.30 N 141.40 E H = 01 13 59.7 h = 107 km MAG=5.3 D = 80.19 Az = 330.2 (USCGS) LmH:16s 0.6/um LmV:13s 0.4/um
	epP A	26 26	
	e A	28 42	
	e A	28 47.5	
	e A	29 00	
	eS C	35 52	
	esS C	36 46	
	LmH B	02 00.0	
	LmV B	06.0	
18.	+iP A	08 55 47	<u>Near Islands, Aleutian Is.</u> 52.49 N 173.48 E H = 08 44 00.0 h = 24 km MAG=5.6 D = 76.10 Az = 348.2 (USCGS) PV:1.4s 102.0nm MPV=5.8 LmV:20s 1.1/um MLV=5.2 LmH:18s 0.9/um MLH=5.1
	e(PPS) C	09 06 16	
	LmV B	30.4	
	LmH B	31.4	
19.	eP A	09 17 09	<u>Andreanof Islands, Aleutian Is.</u> 51.31 N 178.53 W H = 09 05 13.2 h = 41 km MAG=4.8 D = 78.06 Az = 353.4 (USCGS)
19.	eP A	12 39 21	<u>Mindanao, Philippine Islands</u> 7.71 N 125.99 E H = 12 25 45.1 h = 60 km MAG=5.4 (USCGS) D = 99.2 PV:1.4s 23.3nm MPV=5.5
	ePP A	43 25	
19.	LmH C	20(30)	<u>Probably Prince Edward Islands</u> Region (USCGS) LmV(C):24s 0.5/um
	LmV C	31.0	

October 1969

Moxa

Day	Phase	h m s	Remarks
20.	ePKHKP A	10 59 22	<u>Fiji Islands</u> 20.51 S 176.53 W H = 10 40 02.6 h = 260 km MAG=4.3 D = 149.25 Az = 349.8 (USCGS) PKHKPV:1.5s 12.6nm
20.	eP A	13 23 27.5	<u>Venezuela</u> 10.84 N 72.42 W H = 13 11 33.5 h = 55 km MAG=5.1 D = 77.93 Az = 40.4 (USCGS)
20.	iP A	13 23 32.5	<u>Venezuela</u> 10.80 N 72.48 W H = 13 11 37.0 h = 40 km MAG=5.7 (USCGS) D = 78.0
	eS C	33 25	
	LmH B	58.5	PV:1.5s 126.0nm MPV=5.8 LmH:20s 0.7/um MLH=5.0
	LmV B	58.5	LmV:20s 0.9/um MLV=5.1
20.	+ipP B	15 33 39	<u>Oaxaca, Mexico</u> 17.30 N 95.19 W H = 15 20 36.5 h = 87 km MAG=5.4 D = 87.01 Az = 37.6 (USCGS)
	eiPP B	36 36	
	eS B	43 31	LmH:20s 0.6/um
	eiSKS B	43 44	LmV:20s 0.6/um
	LmH B	16 13.0	
	LmV B	14.2	
21.	eP A	11 29 10	<u>Central Mid-Atlantic Ridge</u> 0.77 N 27.94 W H = 11 19 05.5 h = normal MAG=4.7 D = 59.93 Az = 27.9 (USCGS)
	e A	29 20	
21.	eP A	20 02 46	<u>North Atlantic Ridge</u> 11.98 N 43.75 W H = 19 52 46.8 h = normal MAG=4.8 D = 59.13 Az = 37.6 (USCGS) PV:1.4s 14.0nm MPV=4.8
	e A	02 56.5	
21.	+iP A	21 05 42.3	<u>Andreanof Islands, Aleutian Is.</u> 51.31 N 179.24 W H = 20 53 47.5 h = 48 km MAG=5.9 D = 78.01 Az = 353.0 (USCGS)
	ePS B	16(10)	PV:1.3s 214.0nm MPV=6.1
	eSS B	21 00	LmH:19s 1.9/um MLH=5.4
	LmH B	42.0	LmV:16s 1.4/um MLV=5.4
	LmV B	48.2	

October 1969

Moxa

Day	Phase	h m s	Remarks
22.	eP A	03 22 25	<u>Fox Islands, Aleutian Is.</u> 52.34 N 169.44 W H = 03 10 30.0 h = 24 km MAG=4.3 D = 77.39 Az = 359.3 (USCGS) PV:1.0s 11.8nm MPV=5.0
	e A	22 36	
22.	ePKIKP A	06 17 04.5	<u>Solomon Islands</u> 4.92 S 154.21 E H = 05 58 48.8 h = 390 km MAG=4.8 D = 124.73 Az = 331.9 (USCGS) PKIKPV:1.2s 10.2nm
22.	ePKIKP A	07 30 59	<u>New Britain Region</u> 4.79 S 152.51 E H = 07 12 07.7 h = 71 km MAG=5.3 D = 123.80 Az = 331.1 (USCGS) PKIKPV:1.3s 21.8nm
	epPKIKP A	31 17.5	
	e A	31 21	
22.	+eP A	09 27 15.5	<u>Near East Coast of Kamchatka</u> 52.61 N 158.87 E H = 09 15 48.3 h = 63 km MAG=4.8 D = 73.46 Az = 338.9 (USCGS) PV:0.9s 15.6nm MPV=4.9
22.	ePKP A	10 27 10	<u>Fiji Islands</u> 17.81 S 178.73 W H = 10 08 28.2 h = 550 km MAG=4.3 D = 146.21 Az = 348.1 (USCGS)
22.	eP A	10 35 34.5	<u>Off East of Northern Chile</u> 18.09 S 71.54 W H = 10 21 52.1 h = 23 km MAG=5.4 D = 99.54 Az = 39.9 (USCGS) LmH:16s 0.5/um MLH=5.1 LmV:16s 0.5/um MLV=5.1
	e A	35 43.5	
	LmH B	11 23.4	
	LmV B	23.4	
22.	eiP A	12 23 16	<u>Fox Islands, Aleutian Is.</u> 52.21 N 169.45 W H = 12 11 21.3 h = normal MAG=5.1 D = 77.52 Az = 359.3 (USCGS) PV:1.4s 72.0nm MPV=5.6 LmH:16s 0.8/um MLH=5.1 LmV:16s 0.6/um MLV=5.0
	ei A	23 26.5	
	LmH B	13 10.4	
	LmV B	10.8	

October 1969

Moxa

Day	Phase	h m s	Remarks
22.	eP eipP	A 13 03 36.5 A 03 56.0	<u>Near Coast of Venezuela</u> 10.92 N 62.55 W H = 12 52 22.0 h = 79 km MAG=5.4 D = 71.59 Az = 40.2 (USCGS) PV:0.8s 19.3nm MPV=5.0 pPV:1.1s 24.2nm
22.	e(pP)	A 20 56 38	<u>Dodecanese Islands</u> 36.32 N 28.47 E H = 20 52 06.5 h = 48 km MAG=- D = 18.77 Az = 325.0 (USCGS)
22.	eP ePP e eSS LmV LmH	A 23 04 11.5 B 07 28 C 14 50 C 20 40 B 44.7 B 44.8	<u>Off Coast of California</u> 34.83 N 121.34 W H = 22 51 33.5 h = 15 km MAG=5.9 D = 85.32 Az = 27.9 (USCGS) PV:2.0s 282.0nm MPV=6.2 LmV:16s 5.0/um MLV=6.0 LmH:15.5s 4.9/um MLH=6.0
23.	eP +i	A 02 15 36 A 15 40	<u>Southern Italy</u> 38.98 N 14.97 E H = 02 12 53.4 h = 273 km MAG=4.0 D = 11.91 Az = 349.6 (USCGS) PV:1.1s 28.2nm MPV=4.3
23.	ePKP	A 03 12(24)	<u>New Hebrides Islands</u> 14.92 S 166.85 E H = 02 52 54.7 h = 28 km MAG=4.8 D = 139.13 Az = 335.9 (USCGS)
24.	ePKIKP ePKHKP ePKP2	A 00 45 50 A 45 57.5 A 46 12	<u>South of Fiji Islands</u> 25.21 S 178.43 E H = 00 27 08.8 h = 620 km MAG=4.8 D = 152.64 Az = 341.6 (USCGS)
24.	eP e e	A 00 58 07.5 A 58 14 A 58 19.5	<u>Fox Islands, Aleutian Is.</u> 52.47 N 168.62 W H = 00 46 14.6 h = normal MAG=5.2 D = 77.26 Az = 359.8 (USCGS) PV:1.3s 102.5nm MPV=5.8
24.	e(P) LmH LmV	A 08 42 00 B 09 21.5 B 22.4	<u>Southern California</u> 33.29 N 119.19 W H = 08 29 12.1 h = 10 km MAG=5.1 D = 85.83 Az = 28.9 (USCGS)

264

October 1969

Moxa

Day	Phase	h m s	Remarks
cont. 24.			PV:2.7s 163.0nm MPV=5.7 LmH:15s 2.7/um MLH=5.8 LmV:16s 3.4/um MLV=5.9
24.	eP	A 10 21 15	<u>Western Gulf of Aden</u> 11.87 N 44.86 E H = 10 12 41.8 h = 25 km MAG=4.8 D = 47.25 Az = 331.6 (USCGS) PV:1.3s 13.1nm MPV=4.9
24.	eP e e	A 11 55 10 A 55 17 A 55 20	<u>Northern India</u> 24.79 N 72.36 E H = 11 45 52.7 h = 15 km MAG=5.3 D = 52.81 Az = 315.8 (USCGS) PV:1.3s 17.5nm MPV=4.8
24.	ePg +iSg i	A 14 05 54 A 06 39.5 A 06 41.5	<u>Eschenlohe/GFR,</u> 47°37.901' N 11°8.742' E explosion H = 14 04 59.86 yield 21.7 to (ASFA) D = 3.0
24.	-eiPKHKP	A 22 50 45.5	<u>Tonga Islands</u> 20.50 S 172.83 W H = 22 30 57.7 h = normal MAG=5.3 D = 149.71 Az = 354.4 (USCGS) PV:1.5s 57.7nm
25.	+iP LmH LmV	A 12 15 44.8 C 54.0 C 55.0	<u>Kurile Islands</u> 44.09 N 147.77 E H = 12 03 47.6 h = 38 km MAG=5.3 D = 78.24 Az = 333.2 (USCGS)
26.	ePKIKP ePKHKP eiPKP2 ei ePP	A 04 04 42 A 04 53 A 05 09.5 A 05 18 A 08 48	<u>Kermadec Islands</u> 27.04 S 176.51 W H = 03 44 50.4 h = 30 km MAG=5.3 D = 155.62 Az = 347.4 (USCGS)
26.	ePKP e	A 04 35 28 A 37 48	<u>Loyalty Islands</u> 21.69 S 169.86 E H = 04 15 49.7 h = normal MAG=4.8 D = 146.44 Az = 334.7 (USCGS) PKPV:1.0s 29.5nm

265

October 1969

Moxa

Day	Phase	h m s	Remarks
26.	ePKP A	05 10 44	<u>South of Fiji Islands</u> 21.97 S 178.82 W H = 04 51 47.9 h = 450 km MAG=4.3 D = 150.23 Az = 346.6 (USCGS)
26.	+iPKP A	06 57 28	<u>Tonga Islands</u> 16.17 S 173.95 W
	iX A	57 29.5	H = 06 38 03.4 h = 127 km MAG=5.8
	ei A	57 58.3	D = 145.32 Az = 353.8 (USCGS) PKPV:1.4s 46.5nm XV:1.2s 313.0nm
26.	-iP A	15 38 31.4	<u>Jugoslavia</u> 44.87 N 17.29 E
	eS C	39 45	H = 15 36 51.8 h = normal MAG=5.3
	LmH B	40.8	D = 6.92 Az = 328.5 (USCGS)
	LmV B	41.3	LmH:11s 438.0/um MLH=6.3 LmV: 8s 141.0/um
26.	+iP A	19 27 52	<u>Kurile Islands</u> 43.59 N 148.15 E
	eipP A	28 05.5	H = 19 15 51.2 h = 37 km MAG=5.0 D = 78.82 Az = 333.5 (USCGS) FV:1.6s 41.2nm MPV=5.2
26.	ePKHKP A	21 45 35	<u>Kermadec Islands</u> 27.10 S 176.63 W
	ePKP2 A	45 54	H = 21 25 32.2 h = 44 km MAG=5.2
	ePP A	49 32	D = 155.66 Az = 347.2 (USCGS)
26.	e A	21 53 28.5	<u>South of Africa</u> 53.39 S 23.51 E
	ePP A	57 38	H = 21 39 20.8 h = normal MAG=5.9
	eS C	22 05 26	D = 104.14 Az = 352.2 (USCGS)
	ePS C	07 00	LmH:20s 9.8/um MLH=6.3
	eiSS C	12 28	LmV:18s 11.0/um MLV=6.5
	eSSS C	16 45	
	LmH B	40.8	
	LmV B	45.8	
27.	eiPn A	02 57 14	<u>Jugoslavia</u> 44.96 N 16.96 E
	eiPg A	57 48	H = 02 55 35.5 h = normal MAG=4.9
	eiSn A	58 28	D = 6.73 Az = 329.6 (USCGS)
	eiSg A	59 10	PV:1.6s 121.0nm

266

October 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
27.	LmH B	02 59.5	LmH:9.0s 13.4/um MLH=4.8
	LmV B	03 00.0	LmV:10s 11.9/um
27.	ePn A	08 12 36.5	<u>Jugoslavia</u> 44.92 N 17.23 E
	iPn A	12 37	H = 08 10 58.3 h = normal MAG=5.3 D = 6.86 Az = 328.6 (USCGS)
27.	eiP A	08 45 15.5	<u>Greece-Albania Border Region</u> 39.77 N 20.49 E H = 08 42 17.5 h = 40 km MAG=4.5 D = 12.54 Az = 333.1 (USCGS) PV:0.7s 21.1nm
27.	-iPn A	08 55 21.5	<u>Jugoslavia</u> 44.91 N 16.99 E
	iSn A	56 57	H = 08 53 42.7 h = normal MAG=4.8 D = 6.79 Az = 329.7 (USCGS)
27.	ePn A	11 09 38	<u>Jugoslavia</u> 45.15 N 16.76 E
	ePg A	10 04.5	H = 11 08 00.6 h = normal MAG=4.1
	e A	11 02	D = 6.49 Az = 329.7 (USCGS)
	e A	11 25	
	eSg A	11 33	
	e A	11 40.5	
28.	+iP A	18 52 57.5	<u>Hindu Kush Region</u> 36.47 N 70.86 E
	epP A	53 45	H = 18 45 10.6 h = 229 km MAG=5.0
	esP A	54 10	D = 44.04 Az = 308.1 (USCGS)
	ePP A	54 42.5	PV:1.3s 34.9nm MPV=4.6
	eScP A	58 08	
28.	e A	19 36 40	<u>Kurile Islands</u> 43.67 N 146.86 E H = 19 24 41.3 h = 55 km MAG=4.3 D = 78.32 Az = 332.8 (USCGS)
29.	e(pP) A	04 49 04	<u>Kurile Islands</u> 43.76 N 146.35 E H = 04 36 58.6 h = 42 km MAG=4.3 D = 78.07 Az = 332.5 (USCGS)

267

October 1969

Moxa

Day	Phase	h m s	Remarks
29.	ePKP A	07 17 07	<u>Tonga Islands</u> 15.36 S 173.59 W H = 06 57 34.3 h = 50 km MAG=4.7 D = 144.56 Az = 354.3 (USCGS)
29.	ePKP A	12 17 08	<u>Fiji Islands</u> 14.94 S 177.50 W H = 11 58 12.2 h = 309 km MAG=4.3 D = 143.63 Az = 350.2 (USCGS)
29.	eP A	22 14 09	<u>Southern Nevada</u> 37.14 N 116.06 W H = 22 01 51.4 h = 0 km MAG=5.7 D = 81.22 Az = 30.7 (USCGS) 37°08'35.9" N 116°03'49.8" W Nevada test site "Calabash" (USAEC) PV:1.6s 60.4nm MPV=5.4
30.	eiP A	00 17 39	<u>Honshu, Japan</u> 37.59 N 140.06 E H = 00 05 39.4 h = 151 km MAG=5.0 D = 81.15 Az = 329.7 (USCGS) PV:1.6s 77.0nm MPV=5.2
	epP A	18 17	
30.	eP A	01 00 29.5	<u>Taiwan</u> 22.43 N 121.42 E H = 00 47 59.8 h = 48 km MAG=4.4 D = 84.67 Az = 323.0 (USCGS) LmH(C):16s 1.2/um MLH=5.4 LmV(C):16s 0.8/um MLH=5.2
	LmH C	43.4	
	LmV C	43.5	
30.	LmH B	08 53.4	<u>Probably Hokkaido, Japan Region</u> (USCGS) LmH:16s 2.0/um LmV:16s 2.2/um
	LmV B	53.5	
30.	eiP A	12 26 12	<u>Central Russia</u> 52.33 N 95.79 E H = 12 17 22.3 h = normal MAG=4.8 D = 49.57 Az = 303.7 (USCGS) PV:1.5s 57.7nm MPV=5.4 LmH:12.5s 0.9/um MLH=5.0 LmV:12.5s 1.4/um MLV=5.2
	ei A	26 17	
	LmH B	49.6	
	LmV B	49.6	

October 1969

Day	Phase	h m s	Remarks
31.	+iP A	06 55 15.5	<u>Kurile Islands</u> 45.80 N 150.72 W H = 06 43 17.5 h = 9 km MAG=5.0 D = 77.62 Az = 334.7 (USCGS) PV:1.3s 109.2nm MPV=5.8
31.	e(P) A	07 12 30	<u>Off East Coast of Honshu, Japan</u> 37.13 N 142.04 E H = 07 00 13.4 h = 40 km MAG=5.0 D = 82.33 Az = 330.7 (USCGS) LmH B 52.4 LmH:16s 2.3/um MLH=5.6 LmV B 54.3 LmV:15s 3.0/um MLV=5.8
	e A	12 32.5	
	epP A	12 45	
	LmH B	52.4	
	LmV B	54.3	
31.	ePKP A	07 47 25	<u>Fiji Islands</u> 17.28 S 174.24 W H = 07 27 55.9 h = 56 km MAG=5.0 D = 143.92 Az = 341.2 (USCGS)
	epPKP A	47 41	
31.	e A	07 54 04.5	<u>Fiji Islands</u> 17.27 S 174.28 W H = 07 34 15.9 h = 57 km MAG=5.0 D = 143.93 Az = 341.2 (USCGS)
31.	eP A	08 59 46.5	<u>Western Iran</u> 33.24 N 47.85 E H = 08 53 26.3 h = 51 km MAG=5.0 D = 31.67 Az = 314.2 (USCGS)
	e A	59 50	
31.	+iP AB	11 45 00	<u>Andreanof Islands, Aleutian Is</u> 51.32 N 179.01 W H = 11 33 04.83 h = 49 km MAG=5.0 D = 78.02 Az = 353.1 (USCGS) PV(B):10s 4.7/um MPV=6.6 LmH B 12 27.5 LmH:18s 15.5/um MLH=6.4 LmV B 27.5 LmV:17s 16.9/um MLV=6.5
	ePP C	47 58	
	ePPP C	49 50	
	iS C	54 51	
	LmH B	12 27.5	
	LmV B	27.5	
31.	+iP A	11 59 28.5	<u>Andreanof Islands, Aleutian Is</u> 51.21 N 178.99 W H = 11 47 32.1 h = 48 km MAG=5.0 D = 78.13 Az = 353.1 (USCGS)

November 1969

Moxa

Day	Phase	h m s	Remarks
1.	eP A	04 26 23	<u>Andreanof Islands, Aleutian Is.</u> 51.17 N 179.05 W H = 04 14 27.7 h = 47 km MAG=4.5 D = 78.16 Az = 353.1 (USCGS)
1.	eP1 AB	11 21 24	<u>Gulf of California</u> 23.15 N 107.93 W H = 11 08 20.9 h = normal MAG=5.6 D = 89.29 Az = 33.6 (USCGS) P1V(A):1.4s 34.8nm MP1V=5.4 P1V(B):6s 0.8/um MP1V=6.1 P2V(A):2.5s 231.0nm MP2V=6.0 LmH:18s 71.6/um MLH=7.1 LmV:15.5s 75.0/um MLV=7.2
	eP2 A	21 35	
	ePP B	24 52	
	eiS B	32 05	
	i B	32 21	
	eiSS B	37 50	
	LmH B	12 01.5	
	LmV B	03.6	
2.	iPKHKP A	02 52 16	<u>South of Fiji Islands</u> 22.11 S 179.80 W H = 02 33 34.6 h = 640 km MAG=4.7 D = 150.15 Az = 345.3 (USCGS)
	iPKP2 A	52 25	
2.	ePKP A	16 45 35	<u>Tonga Islands</u> 17.27 S 173.66 W H = 16 25 54.0 h = normal MAG=4.6 D = 146.44 Az = 353.9 (USCGS) PKPV:2.0s 34.2nm
	e A	45 46.5	
2.	LmH C	19 52.8	Probably <u>Java</u> (USCGS) LmH(C):24s 1.0/um
3.	ePKP A	03 49 24	<u>South of Australia</u> 45.81 S 123.18 E H = 03 30 19.3 h = normal MAG=5.2 D = 135.63 Az = 302.1 (USCGS)
4.	eSg A	03 28 34	<u>Jugoslavia</u> 45.2 N 17.9 E H = 03 24 51 (BCIS) D = 6.9
	e A	28 40	
4.	eP A	12 17 19	<u>Andreanof Islands, Aleutian Is.</u> 51.12 N 179.11 W H = 12 05 23.9 h = 45 km MAG=4.7 D = 78.21 Az = 353.0 (USCGS) PV:1.2s 18.3nm MPV=5.1

November 1969

Moxa

Day	Phase	h m s	Remarks
4.	e A	20 24 00	<u>Caspian Sea</u> 40.27 N 50.28 E H = 20 17 47.7 h = 29 km MAG=5.0 D = 28.74 Az = 304.2 (USCGS) LmH:42s 5.5/um MLH=4.9
	LmH C	35.0	
4.	eP A	22 18 16	<u>Molucca Sea</u> 0.11 S 124.99 E H = 22 04 11.9 h = normal MAG=5.4 D = 104.72 Az = 322.8 (USCGS) PV:1.4s 23.2nm MPV=5.8 LmH(C):25s 0.9/um MLH=5.1
	LmH C	23 05.4	
4.	ePKIKP A	23 59 01	<u>South of Fiji Islands</u> 22.18 S 179.73 W H = 23 40 22.7 h = 610 km MAG=5.1 D = 150.23 Az = 345.4 (USCGS) PKHKPV:1.4s 79.0nm
	-iPKHKP A	59 07	
	ePKP2 A	59 14	
	epPKIKP A	24 01 18	
	epPKHKP A	01 25	
	esPKP2 A	01 30	
5.	e A	07 52(20)	<u>North Pacific Ocean</u> 36.0 N 9.3 W H = 07 47 43 (BCIS) D = 21.0
	e A	52 30	
	e A	52 39	
5.	+eP A	18 06 49	<u>Off Coast of California</u> 34.83 N 121.20 W H = 17 54 13.6 h = normal MAG=5.8 D = 85.27 Az = 27.9 (USCGS) PV:1.8s 118.0nm MPV=5.8 LmH:16.5s 12.2/um MLH=6.4 LmV:17s 13.6/um MLV=6.4
	+i C	06 50	
	+iPP C	10 08	
	ePPP C	12 00	
	eS C	17 20	
	i C	17 28	
	ePS B	18 10	
	eSS C	23 00	
	LmH B	47.5	
	LmV B	47.5	
5.	eP A	19 01 24.5	<u>Off Coast of California</u> 34.78 N 121.15 W H = 18 48 48.9 h = normal MAG=5.1 D = 85.29 Az = 28.0 (USCGS) PV:1.6s 24.7nm MPV=5.2



November 1969

Moxa

Day	Phase	h m s	Remarks
5.	eP A	20 35 36	<u>Ehutan</u> 27.70 N 90.22 E H = 20 25 13.8 h = 13 km MAG=5.0 D = 62.09 Az = 315.1 (USCGS) PV:0.8s 11.5nm MPV=5.2
5.	LmH B LmV B	21 41.0 41.4	Probably <u>Szechwan Province, China</u> (USCGS) LmH:13s 0.5/um LmV:13s 0.6/um
6.	eP A e A e A LmH B LmV B	02 07 43.5 07 52 07 56 47.4 47.5	<u>Kurile Islands</u> 43.63 N 147.87 E H = 01 55 43.0 h = normal MAG=4.5 D = 78.69 Az = 333.3 (USCGS) LmH:14s 0.6/um MLH=5.1 LmV:15s 0.9/um MLV=5.2
6.	eP A e A	13 26 32 27 17	<u>Near Coast of Chiapas, Mexico</u> 15.74 N 93.51 W H = 13 13 56.5 h = 114 km MAG=4.6 D = 87.26 Az = 38.0 (USCGS)
6.	eP A +e A	13 31 22 31 31	<u>Central Mid-Atlantic Ridge</u> 3.90 N 32.44 W H = 13 21 21.0 h = normal MAG=5.0 D = 59.43 Az = 30.9 (USCGS) PV:1.9s 45.5nm MPV=5.2
6.	eP A e A LmH B LmV B	14 45 58 46 02 55.5 55.6	<u>Greenland Sea</u> 73.47 N 8.03 E H = 14 40 55.5 h = normal MAG=4.7 D = 22.96 Az = 174.1 (USCGS) LmH:15s 0.6/um MLH=4.1 LmV:14s 0.5/um MLV=4.2
6.	iP1 A iP2 A iP3 A eS C eSS C ei C	20 32 14 32 15.3 32 17.5 42 18 47 20 47 32	<u>Andreanof Islands, Aleutian Is.</u> 51.47 N 178.91 W H = 20 20 18.5 h = 36 km MAG=5.5 D = 77.88 Az = 353.2 (USCGS) P1V:0.7s 15.3nm MP1V=5.2 P2V:1.0s 44.3nm MP2V=5.5

November 1969

Moxa

Day	Phase	h m s	Remarks
cont 6.	LmH B LmV B	21 17.1 17.1	P3V:1.0s 84.5nm MP3V=5.8 LmH:15s 3.0/um MLH=5.8 LmV:16s 3.0/um MLV=5.8
7.	eP A	01 40 04.5	<u>Gulf of Campeche</u> 18.09 N 94.50 W H = 01 27 26.9 h = 46 km MAG=4.6 D = 85.99 Az = 37.8 (USCGS) PV:1.3s 17.5nm MPV=5.0
7.	eP A	12 21 31	<u>North of Ascension Island</u> 3.08 S 11.99 W H = 12 11 46.5 h = normal MAG=4.9 D = 57.22 Az = 17.7 (USCGS) PV:1.8s 37.2nm MPV=5.1
7.	eP A e A LmH C LmV C	12 55 20 55 25.5 13 20.4 20.4	<u>North of Ascension Island</u> 2.95 S 12.04 W H = 12 45 35.3 h = normal MAG=5.2 D = 57.11 Az = 17.7 (USCGS) PV:2.6s 147.0nm MPV=5.6 LmV(C):16s 1.8/um MLV=5.3
7.	eP A e A	13 14 10 14 16	<u>North of Ascension Island</u> 2.94 S 12.01 W H = 13 04 24.9 h = normal MAG=5.0 D = 57.10 Az = 17.7 (USCGS) PV:1.6s 35.8nm MPV=5.2
7.	+iP A	13 53 31.4	<u>Ryukyu Islands</u> 26.59 N 126.28 E H = 13 41 13.4 h = 123 km MAG=5.3 D = 83.95 Az = 324.4 (USCGS) PV:1.4s 62.7nm MPV=5.3
7.	eP A	16 50 52	<u>North of Ascension Island</u> 2.82 S 12.09 W H = 16 41 06.7 h = normal MAG=5.3 D = 57.01 Az = 17.8 (USCGS) PV:2.5s 177.0nm MPV=5.7

November 1969

Moxa

Day	Phase	h m s	Remarks
7.	eP	A 18 30 20	<u>North of Ascension Island</u> 2.90 S 12.02 W H = 18 20 35.8 h = normal MAG=5.2 D = 57.06 Az = 17.7 (USCGS) PV:2.0s 81.2nm MPV=5.4
7.	ePg	A 18 35 50	<u>Bernburg, GDR, rock burst</u>
	eSg	A 36 06.5	51°46' N 11°46' E D = 1.0 (Jena) PV:1.2s 18.3nm
7.	+eiP1	A 18 41 56	<u>Southern Iran</u> 27.85 N 60.06 E
	iP2	A 41 58	H = 18 33 59.9 h = 35 km MAG=6.1
	+i	B 42 24	D = 42.92 Az = 315.6 (USCGS)
	ePP	C 43 38	P2V:1.4s 97.7nm MPV=5.3
	eS	C 47 47	LmH:24s 35.4/um MLH=6.2
	i	C 48 06	LmV:21s 29.0/um MLV=6.2
	i	C 48 19	
	+iSS	C 51 10	
	-i	C 51 47	
	LmH	B 59.5	
	LmV	B 19 04.3	
7.	+iPg	A 19 05 06.5	<u>Bernburg, GDR, rock burst (Jena)</u>
	iSg	A 05 23	PV:1.0s 63.0nm
8.	ePKIKP	A 02 01 10	<u>New Hebrides Islands</u> 16.18 S 167.49 E
	LmH	C 03 05.6	H = 01 41 41.3 h = 23 km MAG=5.7
	LmV	C 06.0	D = 140.52 Az = 335.8 (USCGS) PKIKPV:2.3s 140.0nm LmH(C):22s 1.5/um MLH=5.5 LmV(C):20s 1.5/um
8.	eP	A 07 33 22.5	<u>Kurile Islands</u> 45.54 N 150.09 E
	e(pP)	A 33 40	H = 07 21 29.7 h = 52 km MAG=5.3 D = 77.67 Az = 334.4 (USCGS) PV:1.1s 26.2nm

November 1969

Moxa

Day	Phase	h m s	Remarks
8.	e(P)	A 12 29 18	<u>Kurile Islands</u> 48.76 N 155.95 E H = 12 17 30.2 h = normal MAG=4.5 D = 76.36 Az = 337.5 (USCGS)
8.	eP	A 15 48 59	<u>North of Ascension Island</u> 2.81 S 11.86 W H = 15 39 13.2 h = normal MAG=4.7 D = 56.93 Az = 17.6 (USCGS)
8.	eP	A 20 38 09	<u>North of Ascension Island</u> 3.00 S 12.14 W H = 20 28 23.9 h = normal MAG=5.2 D = 57.19 Az = 17.8 (USCGS) PV:1.8s 30.4nm MPV=5.0
8.	ePKIKP	A 21 18 55.5	<u>South of Fiji Islands</u> 22.10 S 179.67 W
	+iPKHKP	A 19 01.5	H = 21 00 16.1 h = 600 km MAG=4.6
	ePKP2	A 19 09	D = 150.17 Az = 345.5 (USCGS) PKIKPV:1.0s 23.6nm
8.	eP	A 22 13 30	<u>Halmahera</u> 1.13 S 127.00 E
	e	A 13 53	H = 21 55 09.2 h = normal MAG=5.9
	e	A 14 02	D = 106.74 Az = 323.1 (USCGS)
	LmH	C 58.3	LmH(C):20s 2.3/um MLH=5.7
	LmV	C 23 04.5	LmV(C):18s 1.4/um MLV=5.6
8.	e	A 23 44 52.5	<u>Halmahera</u> 1.03 S 127.00 E H = 23 26 00.1 h = 55 km MAG=5.3 D = 106.7 (USCGS)
9.	ePKIKP	A 09 26 54	<u>New Hebrides Islands</u> 16.25 S 167.92 E
	e	A 27 11	H = 09 07 50.9 h = 185 km MAG=5.3
	epPKIKP	A 27 49	D = 140.76 Az = 336.1 (USCGS)
	ePP	A 29 57	
	eSKP	A 30 19	
	LmH	C 10 14.0	

November 1969

Moxa

Day	Phase	h m s	Remarks
10.	ePKP A	00 50 07.5	<u>Tonga Islands</u> 15.27 S 173.28 W H = 00 30 28.7 h = normal MAG=4.7 D = 144.50 Az = 354.6 (USCGS)
10.	ePKP A	09 32 28.5	<u>Samoa Islands Region</u> 15.19 S 172.49 W H = 09 12 50.0 h = 65 km MAG=4.6 D = 144.48 Az = 355.5 (USCGS) PKPV:1.4s 20.9nm
10.	ePKP A	09 38 36	<u>Tonga Islands</u> 16.13 S 173.13 W H = 09 19 01.7 h = normal MAG=4.5 D = 145.36 Az = 354.7 (USCGS)
10.	eP A	18 21 36	<u>Svalbard Region</u> 77.13 N 13.86 E H = 18 15 59.6 h = normal MAG=4.6 D = 26.61 Az = 183.2 (USCGS)
10.	epP A	19 25 19	<u>Kurile Islands</u> 43.74 N 147.66 E H = 19 13 06.5 h = normal MAG=4.9 D = 78.52 Az = 333.2 (USCGS)
11.	e A	00 40 31.5	<u>Iran</u> 33.44 N 54.98 E H = 00 30 35.3 h = normal MAG=5.0 (USCGS) D = 36.0
11.	ePg A iSg A	00 58 49 59 05.5	<u>Bernburg, GDR</u> , rock burst (Jena)
11.	ePKIKP A epPKIKP A LmH C	15 42 51 43 07 16 35.0	<u>New Britain Region</u> 5.68 S 151.38 E H = 15 23 59.2 h = 73 km MAG=5.3 D = 124.02 Az = 330.3 (USCGS) PKIKPV:1.3s 13.1nm
12.	eP A	01 39 03	<u>Kurile Islands</u> 43.59 N 146.68 E H = 01 27 04.2 h = normal MAG=4.4 D = 78.33 Az = 332.7 (USCGS)

November 1969

Moxa

Day	Phase	h m s	Remarks
12.	+iP A e A e A LmH B LmV B	12 41 43.0 41 48.5 41 57 13 20.4 20.7	<u>Hokkaido, Japan Region</u> 42.44 N 144.94 E H = 12 29 42.5 h = normal MAG=5.2 D = 78.75 Az = 331.8 (USCGS) PV:1.5s 30.2nm MPV=5.1
12.	LmH C LmV B	16 50.0 55.3	Probably <u>New Britain Region</u> (USCGS)
12.	eP A	18 35 47	<u>Near East Coast of Honshu, Japan</u> 35.35 N 140.67 E H = 18 23 25.8 h = 69 km MAG=4.7 D = 83.32 Az = 330.1 (USCGS)
12.	+iP A eS C eSS C e C e C LmH B LmV B	19 20 49 30 35 35 45 36 20 41 15 42 40 20 03.0 05.6	<u>Fox Islands, Aleutian Is.</u> 52.96 N 168.28 W H = 19 09 02.0 h = 53 km MAG=5.4 D = 76.76 Az = 0.1 (USCGS) PV:1.2s 87.4nm MPV=5.8 LmH:18s 2.0/um MLH=5.9 LmV:16s 1.5/um MLV=5.4
13.	ePKHKP A ePKP2 A e A epPKP A e A	05 17 26 17 36 17 48 19 35 20 12	<u>South of Fiji Islands</u> 23.74 S 179.93 E H = 04 58 31.0 h = 540 km MAG=5.0 D = 151.65 Az = 344.2 (USCGS)
13.	e A e C LmH B LmV B	08 10 19 17 55 59.5 09 01.5	<u>Near Coast of Northern Chile</u> 27.79 S 71.65 W H = 07 51 29.5 h = normal MAG=5.8 (USCGS) D = 106.8 LmH:16s 0.8/um MLH=5.4 LmV:16s 1.0/um MLV=5.5
14.	eP A	06 50 35	<u>Southern Italy</u> 40.69 N 15.70 E H = 06 48 04.4 h = 15 km MAG=4.7 D = 10.36 Az = 345.4 (USCGS)

November 1969

Moxa

Day	Phase	h m s	Remarks
14.	ePKIKP	A 07 57 04.5	<u>Tonga Islands</u> 19.67 S 175.85 W
	-iPKHKP	A 57 09	H = 07 37 45.7 h = 209 km MAG=5.5
	e	A 57 19	D = 148.53 Az = 350.9 (USCGS)
	-ipPKP	A 58 01.5	PKIKPV:2.0s 111.0nm
	esPKP	B 58 26	PKHKPV:1.8s 453.0nm
	eSS	C 08 19 23	
	esSS	C 20 40	
15.	eP1	A 02 58 53	<u>Turkey</u> 37.77 N 29.81 E
	eP2	A 58 56	H = 02 54 37.4 h = 6 km MAG=4.6
	LmH	B 03 06.5	D = 18.26 Az = 320.6 (USCGS)
	LmV	B 07.8	P2V:2.0s 51.2nm MPV=4.3
15.	LmH	B 04 22.9	Probably <u>Off East Coast of Honshu, Japan</u>
	LmV	B 30.2	(USCGS)
15.	eP	A 24 06 22	<u>Southern Iran</u> 26.77 N 53.55 E
	e	A 06 24	H = 23 58 52.1 h = 42 km MAG=4.9
			D = 39.75 Az = 318.3 (USCGS)
16.	eP	A 08 01 45	<u>Central Alaska</u> 64.07 N 147.51 W
	e	A 02 06	H = 07 51 11.0 h = 34 km MAG=4.4
			D = 64.47 Az = 14.6 (USCGS)
			PV:1.4s 13.9nm MPV=5.0
16.	eP	A 10 42 39	<u>El Salvador</u> 13.35 N 89.65 W
	LmH	B 11 26.9	H = 10 30 01.7 h = 79 km MAG=4.9
	LmV	B 27.0	D = 86.80 Az = 38.7 (USCGS)
			PV:1.2s 18.3nm MPV=5.1
			LmH:16s 0.5/um
			LmV:18s 1.1/um
16.	eP	A 20 08 15.5	<u>Central Alaska</u> 64.07 N 147.53 W
			H = 19 57 40.3 h = 30 km MAG=4.4
			D = 64.47 Az = 14.5 (USCGS)
16.	LmH	C 21 21.0	Probably <u>East New Guinea Region</u> (USCGS)
	LmV	C 23.3	LmH(C):20s 0.3/um

November 1969

Moxa

Day	Phase	h m s	Remarks
17.	iPKP2	A 01 03 06.5	<u>Kermadec Islands</u> 28.93 S 179.09 W
			H = 00 43 19.6 h = 344 km MAG=4.9
			D = 156.85 Az = 342.5 (USCGS)
			PKP2V:1.2s 40.6nm
17.	LmH	C 13 35.5	Probably <u>Kurile Islands</u> (USCGS)
			LmH(C):20s 0.6/um
17.	eiPKP	A 13 45 11	<u>Tonga Islands</u> 17.38 S 173.59 W
	+iX	A 45 27.5	H = 13 25 31.1 h = normal MAG=4.8
	e	A 45 40	D = 146.55 Az = 354.0 (USCGS)
			PKPV:1.4s 39.6nm
			XV:1.2s 76.9nm
17.	eP	A 18 08 48	<u>Kurile Islands</u> 43.24 N 146.68 E
	epP	A 09 02	H = 17 56 51.1 h = 60 km MAG=4.3
			D = 78.64 Az = 332.7 (USCGS)
			pPV:1.6s 22.0nm
17.	ePKP	A 18 14 37	<u>New Hebrides Islands</u> 20.80 S 168.96 E
	e	A 14 57.5	H = 17 55 01.1 h = normal MAG=4.9
			D = 145.28 Az = 334.5 (USCGS)
17.	eiP	A 21 36 51.5	<u>Southern Sinkiang Prov. China</u>
			39.89 N 76.92 E
			H = 21 28 34.7 h = 70 km
			D = 45.79 Az = 306.2 (USCGS)
			PV:0.8s 13.5nm MPV=4.9
17.	eP	A 22 40 37	<u>Kurile Islands Region</u> 43.95 N 148.28 E
	LmH	C 23 13.0	H = 22 28 39.2 h = 51 km MAG=4.6
			D = 78.53 Az = 333.5 (USCGS)
18.	ePn	A 07 34 23	<u>Jugoslavia</u> 45.1 N 18.0 E
	e	A 36 18	H = 07 32 56 (BCIS)
	e	A 36 22	D = 7.0
	e	A 36 45	

November 1969

Moxa

Day	Phase	h m s	Remarks
18.	LmV C	14 44.5	Probably <u>Near Coast of Chiapas, Mexico</u> (USCGS) LmV:18s 0.3/um LmH:18s 0.5/um
	LmH C	46.5	
18.	eiPKHKP A	21 05 33	<u>Tonga Islands</u> 22.32 S 175.32 W H = 20 45 41.6 h = normal MAG=4.9 D = 151.21 Az = 350.8 (USCGS) PKP2V:1.2s 32.5nm
	ePKP2 A	05 44	
	e A	05 51.5	
	LmH C	22 23.0	
19.	-eiP A	08 56 01	<u>Sea of Japan</u> 41.84 N 133.70 E H = 08 45 03.3 h = 423 km MAG=5.0 D = 74.95 Az = 326.0 (USCGS) PV:1.3s 50.2nm MPV=5.0
	e A	56 46.5	
	epP A	57 40	
19.	eP A	13 24 29	<u>Northern Sumatra</u> 0.94 N 97.79 E H = 13 11 45.8 h = 33 km MAG=5.3 D = 86.85 Az = 320.5 (USCGS) PV:1.3s 17.5nm MPV=5.1
20.	ePKP2 A	17 42 32	<u>South Pacific Cordillera</u> 54.38 S 133.92 W H = 17 21 59.3 h = normal MAG=5.0 (USCGS) D = 158.9
20.	eP1 A	21 12 28	<u>Kurile Islands</u> 43.31 N 147.91 E H = 21 00 29.0 h = 53 km MAG=5.1 D = 78.98 Az = 333.4 (USCGS) P1V:1.2s 22.4nm MP1V=5.1 P2V:1.0s 21.6nm MP2V=5.1 pP2V:1.1s LmH(C):23s 1.9/um MLH=5.4 LmV(C):16s 1.7/um MLV=5.5
	eP2 A	12 31.5	
	epP A	12 40	
	e A	12 42.5	
	LmH C	44.6	
	LmV C	52.2	
20.	eiP1 A	23 57 36	<u>Kodiak Island Region</u> 56.62 N 153.16 W H = 23 46 11.6 h = normal MAG=5.1 D = 72.37 Az = 10.1 (USCGS) P1V:1.2s 34.6nm MP1V=5.4 P2V:1.0s 62.1nm MP2V=5.7
	iP2 A	57 40	
	iP3 A	57 45	
	iP4 A	57 51.5	
	eS C	24 07 00	

November 1969

Moxa

Day	Phase	h m s	Remarks
cont. 20.	eSS C	24 12 00	P3V:1.2s 65.0nm MP3V=5.6 P4V:1.1s 96.7nm MP4V=5.8 LmH(C):26s 1.9/um MLH=5.2 LmV(C):26s 2.0/um MLV=5.3
	LmH C	25.7	
	LmV C	25.7	
21.	+eP A	00 25 39	<u>Kodiak Island</u> 56.33 N 153.39 W H = 00 14 12.6 h = normal MAG=5.1 D = 72.67 Az = 9.9 (USCGS) PV:1.0s 29.5nm MPV=5.4
	e A	25 46	
	e A	25 49	
21.	+eP A	00 41 19	<u>Kodiak Island Region</u> 56.37 N 153.60 W H = 00 29 50.1 h = 12 km MAG=5.2 D = 72.65 Az = 9.8 (USCGS) PV:1.0s 25.6nm MPV=5.3
	e A	41 29.5	
21.	-iP1 AB	02 18 05	<u>Off W.Coast of Northern Sumatra</u> 2.07 N 94.64 E H = 02 05 35.3 h = 20 km MAG=6.4 D = 83.98 Az = 320.5 (USCGS) P1V(A):1.3s 91.7nm MP1V=5.9 P2V(A):1.6s 630.0nm MP2V=6.6 P3mV(A):1.9s 2650.0nm MP3mV=7.2 P4mV(B):12s 29.0/um MP4mV=7.4 LmH:20s 292.0/um MLH=7.6 LmV:17s 159.0/um MLV=7.5
	+eiP2 A	18 08	
	+iP3 AB	18 12.3	
	P3m A	18 16	
	iP4 B	18 18	
	P4m B	18 24	
	eiS B	28 25	
	eFS B	29 20	
	eSS B	34 12	
	eSSS B	37 40	
	LmH B	58.8	
	LmV B	03 04.8	
21.	eP A	02 41 57	<u>Off W.Coast of Northern Sumatra</u> 1.69 N 94.52 E H = 02 29 27.0 h = normal (USCGS) D = 84.2 PV:1.4s 23.3nm MPV=5.2
21.	eP A	02 44 13.5	<u>Kodiak Island Region</u> 56.51 N 153.09 W H = 02 32 49.2 h = 37 km MAG=5.1 D = 72.46 Az = 10.1 (USCGS) PV:1.0s 21.6nm MPV=5.2

November 1969

Moxa

Day	Phase	h m s	Remarks
21.	eP1	A 08 24 30	<u>Kurile Islands</u> 43.74 N 147.85 E
	eP2	A 24 33	H = 08 12 31.6 h = 63 km MAG=4.7
	e	A 24 43	D = 78.58 Az = 333.3 (USCGS)
	LmH	B 09 02.0	P2V:1.6s 24.7nm MP2V=5.0
	LmV	B 04.3	LmH:17.5s 2.4/um MLH=5.6 LmV:16s 2.7/um MLV=5.7
21.	eP	A 09 09 17	<u>Kurile Islands</u> 43.36 N 147.86 E
	e	A 09 28.5	H = 08 57 15.2 h = 40 km MAG=4.7
	LmV	B 49.1	D = 78.92 Az = 333.3 (USCGS)
	LmH	B 49.2	LmV:15s 0.7/um MLV=5.2 LmH:14s 1.0/um MLH=5.3
21.	eP1	A 11 32 40	<u>Kurile Islands</u> 43.55 N 147.52 E
	eP2	A 32 52	H = 11 20 39.3 h = normal MAG=4.5 D = 78.64 Az = 333.1 (USCGS) P2V:1.1s 16.1nm MP2V=5.0
21.	eP	A 15 04 18	<u>Southern Nevada</u> 37.01 N 116.01 W H = 14 52 00.0 h = 0 km MAG=5.0 D = 81.31 Az = 30.7 (USCGS) Nevada test site "Piccalilly" 37°01'52" N 116°00'07" W (USAEC)
21.	eP	A 17 33 29	<u>Kurile Islands</u> 43.98 N 147.71 E H = 17 21 31.7 h = 40 km MAG=4.2 D = 78.32 Az = 333.2 (USCGS) PV:1.0s 13.8nm MPV=5.0
22.	ePKP2	A 05 20 56.5	<u>Kermadec Islands</u> 28.21 S 177.17 W H = 05 00 39.7 h = 65 km MAG=5.2 D = 156.62 Az = 345.8 (USCGS) PKP2V:0.5s 15.4nm
22.	eP	A 06 31 03.5	<u>Kurile Islands</u> (UPP) PV:1.5s 15.1nm
22.	eP	A 06 51 12	<u>Kurile Islands</u> (UPP)

282

November 1969

Moxa

Day	Phase	h m s	Remarks
22.	e	A 07 51 28	<u>France</u> 44.3 N 6.8 E
	ePg	A 51 33	H = 07 49 15 (BCIS)
	e	A 53 06	D = 7.2
	e	A 53 09	
	eSg	A 53 19	
22.	eP	A 11 35 10	<u>Kurile Islands</u> 47.10 N 154.20 E
	e	A 35 15	H = 11 23 18.4 h = 60 km MAG=4.6
	e	A 35 20	D = 77.43 Az = 336.7 (USCGS)
22.	+ePKHKP	A 19 47 37.5	<u>Tonga Islands Region</u> 22.33 S 174.90 W
	ei	A 47 40	H = 19 27 45.9 h = normal MAG=5.3
	ePKP2	A 47 49.5	D = 151.28 Az = 351.4 (USCGS)
	e	A 47 56.5	PKHKPV:1.6s 49.5nm
	LmH	C 20 56.5	LmH(C):18s 0.7/um MLH=5.4
22.	LmV	C 21 03.3	LmV(C):18s 0.5/um
	+eiP1	AB 23 20 44	<u>Near East Coast of Kamchatka</u>
22.	+iP2	A 20 44.5	57.76 N 163.54 E
	P2m	A 20 46.5	H = 23 09 37.2 h = normal MAG=6.3
	+iP3	A 20 48.5	D = 69.52 Az = 341.3 (USCGS)
	P3m	A 21 06	P1V(B):14s 36.3/um MP1V=7.4
	ePP	B 23 20	P2mV(A):1.5s 487.0nm MP2mV=6.5
	eiS	B 29 55	P3mV(A):2.1s 2120.0nm MP3mV=7.0
	eSS	B 34 18	LmV:16s 187.0/um MLV=7.5
	ePKPPKP	A 48 51	LmH:14s 242.0/um MLH=7.6
23.	eP	A 00 59 51	<u>Near East Coast of Kamchatka</u>
			57.30 N 163.11 E
			H = 00 48 40.3 h = 33 km MAG=4.8 D = 69.88 Az = 341.1 (USCGS)
23.	ePKIKP	A 04 29 06.5	<u>Kermadec Islands</u> 27.01 S 176.35 W
	ePKHKP	A 29 16.5	H = 04 09 17.4 h = 50 km MAG=4.9 (USCGS)
	e	A 29 39	D = 155.6

283

November 1969

Moxa

Day	Phase	h m s	Remarks
23.	eP	A 07 20 45.5	<u>Kurile Islands</u> 43.52 N 147.72 E H = 07 08 45.4 h = 45 km MAG=4.5 D = 78.74 Az = 333.2 (USCGS) LmH(C):21s 0.8/um MLH=5.0 LmV(C):16s 0.7/um MLV=5.2
	epP	A 20 57.5	
	LmH	C 53.0	
	LmV	C 08 00.4	
23.	eP1	A 11 47 19.5	<u>Iran-USSR Border Region</u> 38.32 N 55.46 E H = 11 40 45.1 h = 38 km MAG=4.9 D = 33.14 Az = 306.2 (USCGS) P2V:1.3s 52.4nm MPV=5.3
	+iP2	A 47 22.5	
	LmH	C 12 03.3	
23.	eP	A 18 56 42	<u>Kamchatka</u> 58.17 N 163.31 E H = 18 45 36.6 h = normal MAG=4.5 (USCGS) D = 68.8 PV:1.3s 13.1nm MPV=5.0
	LmH	C 19 30.0	
24.	LmH	C 02 40.0	Probably <u>Tibet</u> (USCGS) LmH(C):23s 0.2/um
24.	eSg	A 10 57 43	<u>Pyrenees</u> 43.4 N 0.6 W H = 10 51 52 (BCIS) D = 11.0
24.	eP	A 11 36 09.5	<u>Kodiak Island Region</u> 56.14 N 153.38 W H = 11 24 39.1 h = 2 km MAG=4.4 D = 72.85 Az = 9.9 (USCGS)
24.	eP	A 15 50 56	<u>Iran-USSR Border Region</u> 38.37 N 55.21 E H = 15 44 23.2 h = 49 km MAG=4.8 D = 32.95 Az = 306.2 (USCGS)
24.	-iP	A 17 31 18.5	<u>Afghanistan-USSR Border Region</u> 37.18 N 71.67 E H = 17 23 20.2 h = 123 km MAG=5.6 D = 44.13 Az = 307.6 (USCGS) PV:1.6s 385.0nm MPV=5.9
	ipP	A 31 46	
	isP	B 31 58.5	
	ePP	C 33 06	
	epPP	C 33 26	
	iScP	C 36 42	

284

November 1969

Moxa

Day	Phase	h m s	Remarks
cont. 24.	eS	C 17 37 44	
	esS	C 38 30	
	eSS	C 40 48	
24.	+iP	A 21 21 40	<u>Davis Strait</u> 60.56 N 58.76 W H = 21 14 13.7 h = normal MAG=5.0 D = 39.09 Az = 72.0 (USCGS) PV:1.1s 44.3nm MPV=5.0
	LmH	B 40.0	
	LmV	B 40.0	
24.	eiPKIKP	A 21 49 51.4	<u>Fiji Islands Region</u> 17.99 S 178.40 W H = 21 31 17.6 h = 593 km MAG=5.4 D = 146.45 Az = 348.4 (USCGS) PKIKPV:1.3s 104.5nm PKHKPV:1.3s 297.0nm
	iPKHKP	A 49 54	
	iPKP2	A 49 56.5	
	epPKIKP	B 52 08	
24.	+iP	A 23 03 17.5	<u>Kodiak Island Region</u> 56.20 N 153.56 W H = 22 51 50.1 h = normal MAG=5.5 D = 72.82 Az = 9.8 (USCGS) PV:1.8s 81.0nm MPV=5.6 LmH:18s 3.7/um MLH=5.7 LmV:19s 4.7/um MLV=5.8
	i	A 03 26	
	i	A 03 30	
	i	A 03 34.5	
	eS	C 12 38	
	i	C 12 45	
	eSS	C 17 38	
	LmH	B 41.1	
	LmV	B 41.1	
25.	iPKIKP	A 01 51 29	<u>Fiji Islands</u> 18.03 S 178.37 W H = 01 32 54.0 h = 587 km MAG=4.6 D = 146.46 Az = 348.5 (USCGS) PKIKPV:0.6s 23.0nm
	iPKHKP	A 51 30.5	
25.	ePKP2	A 05 08 11	<u>Kermadec Islands</u> 30.46 S 177.87 W H = 04 47 41.4 h = 30 km MAG=5.0 (USCGS) D = 158.7 PKP2V:1.5s 35.2nm LmH(C):24s 0.4/um MLH=5.1 LmV(C):24s 0.3/um
	LmH	C 06 14.0	
	LmV	C 14.0	

285

November 1969

Moxa

Day	Phase	h m s	Remarks	
25.	eP A	09 22 43.5	<u>Iran-USSR Border Region</u> 38.26 N 55.50 E H = 09 16 07.3 h = normal MAG=4.8 D = 33.20 Az = 306.3 (USCGS)	
25.	eSn A eSg A	16 48 36 49 18.5	<u>Yugoslavia</u> 44.7 N 17.1 E H = 16 45 36 (BCIS) D = 7.0	
25.	eP LmH LmV	A C C	19 45 00.5 20 17.4 24.3	<u>Kurile Islands</u> 43.45 N 147.75 E H = 19 32 59.2 h = normal MAG=4.8 D = 78.81 Az = 333.3 (USCGS) PV:1.3s 19.7nm MPV=5.0 LmH(C):21s 0.5/um MLH=4.8 LmV(C):18s 0.3/um MLV=4.7
26.	ePKP eX eSS LmV LmH	A A C B B	13 03 33 03 37 25 15 14 22.4 22.5	<u>New Hebrides Islands</u> 16.79 S 167.69 E H = 12 44 04.7 h = 33 km MAG=5.4 D = 141.15 Az = 335.7 (USCGS) XV:1.5s 25.1nm LmV:19s 2.2/um LmH:20s 2.2/um MLH=5.9
26.	ePS ePPS eSS LmH LmV	C C C B B	18 55 10 56 30 19 01 30 28.0 28.0	<u>South Sandwich Islands Region</u> 58.84 S 24.71 W H = 18 26 08.9 h = normal MAG=5.4 (USCGS) D = 113.1 LmH:20s 1.9/um MLH=5.7 LmV:20s 2.8/um MLV=5.9
26.	e A	22 50 23	<u>Mascarene Islands Region</u> 17.92 S 65.37 E H = 22 37 56.0 h = 27 km MAG=5.0 D = 82.96 Az = 328.8 (USCGS)	
27.	+iPKP e epPKP	A A A	03 27 02.4 27 15 27 37.5	<u>New Hebrides Islands</u> 19.62 S 169.30 E H = 03 07 42.4 h = 135 km MAG=5.0 D = 144.35 Az = 335.5 (USCGS) PKPV:1.0s 55.1nm

286

November 1969

Moxa

Day	Phase	h m s	Remarks	
27.	eP e LmH	A A C	15 31 08 31 12.5 16 04.0	<u>Kamchatka</u> 58.03 N 163.08 E H = 15 20 04.7 h = normal MAG=4.4 D = 69.19 Az = 341.0 (USCGS)
29.	eP epP	A A	16 23 20 23 32	<u>Kurile Islands Region</u> 46.63 N 154.10 E H = 16 11 25.9 h = 53 km MAG=4.7 D = 77.83 Az = 336.6 (USCGS)
29.	e A	16 55 50.5	<u>Shikoku, Japan</u> 33.35 N 132.32 E H = 16 43 15.7 h = 48 km MAG=5.1 D = 81.38 Az = 326.4 (USCGS)	
29.	eiP A	20 52 33	<u>Fiji Islands Region</u> 16.45 S 176.59 W H = 20 33 43.3 h = 424 km MAG=4.6 D = 145.26 Az = 350.8 (USCGS) PV:1.1s 14.1nm	
30.	+iP ePn i ei eS e LmV LmH	A A A B B B B B B	03 40 49.4 42 21 42 28 55 02 55 12 55 45 04 00.1 00.2	<u>Eastern Kazakh SSR</u> 49.92 N 79.00 E H = 03 32 57.2 h = 0 km MAG=6.0 D = 41.70 Az = 297.9 (USCGS) PV:1.0s 295.0nm MPV=6.0 LmV:8s 0.6/um MLV=4.9 LmH:8s 0.6/um MLH=4.9 Probably underground explosion

287



December 1969

Moxa

Day	Phase	h m s	Remarks	
1.	-iPKHKP ePKP2	A A	02 35 20 35 23	<u>Fiji Islands</u> 18.37 S 178.02 W H = 02 16 42.7 h = 600 km MAG=4.9 D = 146.89 Az = 348.7 (USCGS) PKHKPV:1.0s 35.4nm
1.	eP	A	11 36 41	<u>North Atlantic Ridge</u> 12.11 N 43.80 W H = 11 26 42.2 h = normal MAG=4.7 D = 59.06 Az = 37.7 (USCGS)
1.	eP	A	13 12 09	<u>Southern Iran</u> 26.49 N 53.52 E H = 13 04 34.1 h = normal MAG=4.7 D = 39.93 Az = 318.5 (USCGS)
1.	ePKP	A	14 30 54	<u>Easter Island Cordillera</u> 49.77 S 115.11 W H = 14 11 14.6 h = normal MAG=4.8 D = 146.51 Az = 67.6 (USCGS)
1.	ePKP	A	19 30 11	<u>Easter Island Cordillera</u> 49.70 S 114.03 W H = 19 10 33.5 h = normal MAG=4.5 D = 145.83 Az = 67.1 (USCGS) PKPV:1.3s 8.7nm
1.	eiP	A	20 09 44.5	<u>Kodiak Island</u> 56.45 N 153.56 W H = 19 58 18.2 h = normal MAG=4.7 D = 72.57 Az = 9.8 (USCGS) PV:1.1s 22.2nm MPV=5.2
1.	eiP LmH	A B	20 22 16.5 29.0	<u>Crete</u> 34.99 N 24.27 E H = 20 18 06.3 h = 53 km MAG=5.0 D = 18.15 Az = 333.4 (USCGS) PV:0.8s 28.9nm MPV=4.5
1.	eP	A	20 42 33	<u>Kodiak Island</u> 56.48 N 153.23 W H = 20 31 08.8 h = 39 km MAG=4.6 D = 72.51 Az = 10.0 (USCGS)

December 1969

Moxa

Day	Phase	h m s	Remarks	
1.	ePKHKP	A	20 48 13	<u>Tonga Islands</u> 20.14 S 175.01 W H = 20 28 27.2 h = 38 km MAG=4.9 D = 149.11 Az = 351.8 (USCGS)
1.	eP1 eP2 eiP3 eS eSSS LmH LmV	A C A C C B B	22 24 39 24 42 24 54 33 28 41 00 48.3 48.4	<u>Leeward Islands</u> 16.68 N 60.75 W H = 22 13 53.4 h = 41 km MAG=5.6 D = 66.12 Az = 41.6 (USCGS) P1V:0.7s 7.7nm MP1V=5.0 P3V:2.0s 141.0nm MP3V=5.8 LmH:20s 4.9/um MLH=5.7 LmV:20s 4.4/um MLV=5.7
2.	e LmH	A B	04 23 49 57.0	<u>Near East Coast of Kamchatka</u> 57.43 N 163.44 E H = 04 12 34.6 h = normal MAG=5.1 D = 69.82 Az = 341.3 (USCGS)
2.	+eP eSKS iS ePPS ePKKP eSS ePKPPKP LmH LmV	A C C C A C A B B	18 10 35 20 58 21 55 24 00 27 04 28.7 35 17 54.6 19 01.1	<u>Mindanao, Philippine Islands</u> 8.23 N 126.25 E H = 17 57 04.3 h = 102 km MAG=5.7 D = 98.80 Az = 324.2 (USCGS) PV:1.3s 39.3nm MPV=5.9 LmH:18s 2.6/um LmV:17s 2.1/um
2.	eP	A	19 13 49	<u>Off East Coast of Honshu, Japan</u> 40.21 N 143.92 E H = 19 01 39.4 h = 37 km MAG=4.5 D = 80.35 Az = 331.5 (USCGS) PV:1.4s 16.3nm
3.	e e e eS LmH	A A A C C	02 40 37 40 43 40 52 47 38 03 05.0	<u>Near Coast of West Pakistan</u> 24.66 N 65.37 E H = 02 31 47.5 h = normal MAG=4.9 D = 48.51 Az = 316.7 (USCGS)

December 1969

Moxa

Day	Phase	h m s	Remarks
3.	ePKP	A 05 22 38	<u>Loyalty Islands</u> 20.60 S 168.77 E H = 05 03 01.9 h = 30 km MAG=4.4 D = 145.02 Az = 334.5 (USCGS)
	e	A 22 59	
3.	+iP	A 12 46 14.5	<u>Near East Coast of Kamchatka</u> 54.66 N 161.43 E H = 12 34 52.4 h = 35 km MAG=4.9 D = 72.07 Az = 340.3 (USCGS) PV:1.0s 43.3nm MPV=5.5
	epP	A 46 24.5	
	e	A 46 29.5	
4.	eP	A 00 46 41	<u>Andaman Islands</u> 12.42 N 93.73 E H = 00 34 58.6 h = normal MAG=5.3 D = 75.5 (USCGS) PV:0.8s 15.4nm MPV=5.2
4.	-eP1	A 09 02 32	<u>Off East Coast of Honshu, Japan</u> 40.71 N 144.65 E H = 08 50 21.7 h = 20 km MAG=5.7 D = 80.17 Az = 331.8 (USCGS) P2V:1.4s 125.5nm MP2V=5.7 P3V:1.7s 139.2nm LmH:15s 1.9 $\mu$ m MLH=5.6 LmV:16s 1.6 $\mu$ m MLV=5.5
	+iP2	A 02 32.9	
	-iP3	A 02 47.5	
	eS	C 12 32	
	LmH	B 38.9	
	LmV	B 43.9	
4.	e	A 18 19 03.5	<u>West of Gibraltar</u> 36.23 N 8.52 W H = 18 14 23.1 h = normal MAG=4.3 D = 20.44 Az = 38.9 (USCGS) PV:1.4s 27.9nm MPV=4.3 LmH:12s 1.3 $\mu$ m MLH=4.5 LmV:9s 1.2 $\mu$ m MLV=4.7
	LmH	B 26.3	
	LmV	B 28.3	
5.	eP	A 11 47 29	<u>Arabian Sea</u> 14.46 N 53.26 E H = 11 38 40.3 h = normal MAG=4.8 D = 49.29 Az = 326.1 (USCGS)

December 1969

Moxa

Day	Phase	h m s	Remarks
5.	eP	A 17 12 18	<u>Southern Nevada</u> 37.18 N 116.21 W H = 17 00 00.0 h = 0 km MAG=5.0 D = 81.25 Az = 30.6 (USCGS) 37°10'47.9" N 116°12'39.1" W W. Nevada Test site "Diesel Train" MAG=5.1 (USAEC)
5.	-iP	A 18 54 47	<u>Nepal-India Border Region</u> 29.66 N 80.77 E H = 18 45 17.4 h = normal MAG=4.9 D = 54.77 Az = 313.2 (USCGS) PV:1.0s 17.7nm MPV=5.1
6.	ePKP	A 03 13 55.5	<u>Tonga Islands</u> 15.31 S 173.73 W H = 02 54 39.7 h = 206 km MAG=4.9 D = 144.50 Az = 354.1 (USCGS)
6.	eP	A 04 41 14.5	<u>Tadzhik SSR</u> 37.95 N 72.98 E H = 04 33 14.8 h = 131 km MAG=4.9 D = 44.48 Az = 307.1 (USCGS)
6.	+iP	A 07 09 07.2	<u>Western Kazakh SSR</u> 43.83 N 54.78 E H = 07 02 57.4 h = 0 km MAG=5.8 D = 29.75 Az = 298.6 (USCGS) Underground explosion (UPP)
6.	LmH	C 15 55.0	Probably <u>South Sandwich Islands</u> Region (USCGS) LmH(C):21s 0.5 $\mu$ m LmV(C):21s 0.4 $\mu$ m
	LmV	C 55.0	
7.	ePKP	A 04 14 55.5	<u>New Hebrides Islands</u> 18.09 S 168.18 E H = 03 55 31.1 h = 49 km MAG=5.2 D = 142.52 Az = 335.4 (USCGS) PV:1.2s 22.4nm
7.	e	A 21 59 53	<u>Mindanao, Philippine Is.</u> 9.61 N 125.65 E
	LmH	C 22 39.0	

December 1969			Moxa
Day	Phase	h m s	Remarks
cont.			
7.	LmV	C 22 40.0	H = 21 46 15.1 h = 51 km MAG=5.2 D = 97.35 Az = 324.1 (USCGS) PV:1.5s 12.6nm MPV=5.4 LmH(C):27.5s 2.2/um MLH=5.4 LmV(C):32s 0.6/um MLV=4.9
8.	eP	A 05 29 40.5	<u>Near East Coast of Kamchatka</u> 57.24 N 162.30 E H = 05 18 34.8 h = 54 km MAG=4.6 D = 69.79 Az = 340.6 (USCGS)
9.	eP LmH	A 19 06 00 C 36.7	<u>Kurile Islands</u> 47.55 N 156.13 E H = 18 54 06.0 h = normal MAG=4.8 D = 77.52 Az = 337.8 (USCGS) LmH(C):26s 0.9/um MLH=5.0
9.	eP epP	A 22 11 11.5 A 11 23.5	<u>Kurile Islands</u> 43.99 N 148.37 E H = 21 59 11.9 h = normal MAG=5.1 (USCGS) D = 78.5 PV:1.0s 13.8nm MPV=5.0 pPV:1.2s 16.2nm
10.	ePKHKP ePKIKP ePP ePS ePPS e eSS ePSPS eSSS LmH LmV	A 20 13 20.5 A 13 26 C 16 24 C 26 42 C 28 42 C 30 00 C 34 38 C 35 40 C 40 00 B 21 16.9 B 17.0	<u>New Hebrides Islands</u> 14.81 S 165.97 E H = 19 53 58.2 h = 21 km MAG=5.4 D = 139.07 Az = 336.1 (USCGS) PKHKPV:1.3s 13.1nm LmH:20s 7.4/um MLH=6.4 LmV:21s 5.8/um
10.	e	A 24 04 47	Probably <u>Solomon Islands</u> (USCGS)

December 1969

Moxa

Day	Phase	h m s	Remarks
11.	ePKP LmH LmV	A 10 52 48 C 11 50.5 C 50.5	<u>Easter Island Cordillera</u> 50.02 S 114.89 W H = 10 33 07.6 h = normal MAG=4.7 D = 146.46 Az = 67.9 (USCGS) PKPV:1.6s 27.5nm LmH:20s 0.6/um MLH=5.3 LmV:20s 0.7/um
12.	+eP +eipP e(sP) e e ePP LmH LmV	A 01 25 24.5 A 25 34.8 A 25 38.5 A 25 48 A 25 56 A 28 23 B 02 00.3 B 02.0	<u>Off East Coast of Honshu, Japan</u> 40.13 N 143.81 E H = 01 13 11.4 h = 11 km MAG=5.0 D = 80.38 Az = 331.4 (USCGS) PV:1.6s 41.2nm MPV=5.2 LmH:17.5s 2.4/um MLH=5.6 LmV:18s 1.5/um MLV=5.4
12.	eP	A 04 13 34.5	<u>North Atlantic Ridge</u> 52.84 N 31.90 W H = 04 07 57.3 h = normal MAG=4.6 D = 26.73 Az = 77.0 (USCGS)
13.	eP eS	A 03 16 48 C 25 00	<u>Central Mid-Atlantic Ridge</u> 0.97 N 27.95 W H = 03 06 40.0 h = normal MAG=4.8 D = 59.75 Az = 28.0 (USCGS)
13.	+iP eS LmH LmV	A 03 30 02 C 38 16 B 52.4 B 53.3	<u>Central Mid-Atlantic Ridge</u> 1.02 N 28.03 W H = 03 19 58.3 h = normal MAG=5.6 D = 59.75 Az = 28.0 (USCGS) PV:1.5s 101.0nm MPV=5.6 LmH:20s 1.4/um MLH=5.1 LmV:16s 1.1/um MLV=5.2
13.	eP	A 03 52 21	<u>Near S. Coast of Honshu, Japan</u> 33.99 N 136.98 E H = 03 40 34.8 h = 358 km MAG=5.1 D = 82.94 Az = 328.5 (USCGS) PV:1.2s 36.6nm MPV=5.1

December 1969

Moxa

Day	Phase		h m s	Remarks
13.	eP	A	13 40 34	<u>Kurile Islands</u> 46.47 N 152.59 E H = 13 28 39.5 h = normal MAG=4.8 (USCGS) D = 77.4
13.	eP	A	21 49 49.5	<u>Ryukyu Islands</u> 23.87 N 126.51 E H = 21 37 06.0 h = 20 km MAG=5.4 D = 86.28 Az = 324.6 (USCGS)
	epP	A	49 54	
	e	A	50 06	
	e	A	50 17.5	LmH:16s 1.8/um MLH=5.6
	LmH	B	22 33.6	LmV:15.5s 2.1/um MLV=5.7
	LmV	B	33.6	
13.	eP	A	22 20 47.5	<u>Talau Islands</u> 4.23 N 126.31 E H = 22 06 55.3 h = 42 km MAG=5.6 D = 102.1 (USCGS) PV:1.3s 10.9nm MPV=5.3
14.	eP	A	02 56 10	<u>Molucca Passage</u> 2.03 N 126.93 E H = 02 42 09.4 h = 42 km MAG=6.0 D = 104.18 Az = 323.6 (USCGS)
	e	A	56 37	
	ePP	C	03 00 33	
	iSKS	C	06 44	LmH:18.5s 7.8/um MLH=6.3
	iS	C	07 55	LmV:16s 4.0/um MLV=6.1
	e	A	09 23	
	ePS	C	09 45	
	eiPPS	C	10 40	
	eSS	C	15 05	
	LmH	B	41.1	
	LmV	B	49.3	
14.	eP	A	16 15 47	<u>Hokkaido, Japan</u> 43.58 N 145.87 E H = 16 03 53.9 h = 68 km MAG=4.6 D = 78.06 Az = 332.2 (USCGS) PV:1.4s 14.0nm
14.	+iP	AB	18 46 55.5	<u>Carlsberg Ridge</u> 8.19 N 58.46 E H = 18 37 09.5 h = normal MAG=6.0 D = 57.30 Az = 326.5 (USCGS) PV(A):1.9s 379.0nm MPV=6.1 PV(B):4.0s 1.58/um MPV=6.4
	-iS	B	54 48	
	i	C	54 50	
	iScS	C	56 44	
	iSS	C	58 50	

December 1969

Moxa

Day	Phase		h m s	Remarks
cont.				
14.	LmH	B	19 21.3	SH(B):8.5s 3.8/um MSH=6.3
	LmV	B	27.7	LmH:17s 1.5/um MLH=5.2 LmV:15s 2.0/um MLV=5.4
15.	eP	A	00 26 18	<u>Andreanof Islands, Aleutian Is.</u> 51.44 N 179.47 W H = 00 14 23.2 h = 35 km MAG=4.6 D = 77.86 Az = 352.8 (USCGS)
16.	e(P)	A	11 50 35	<u>Greece-Albania Border Region</u> 39.34 N 20.57 E H = 11 47 31.6 h = 64 km MAG=4.5 D = 12.95 Az = 333.8 (USCGS) PV:0.7s 11.5nm
16.	+iPn	A	18 21 48.7	Explosion, D ca. 3.6
	e	A	22 10	PnV:0.6s 21.1nm
	eSn	A	22 30	
	eiSg	A	22 48	
17.	+eP	A	02 42 21.5	<u>Northern Sumatra</u> 2.92 N 98.63 E H = 02 29 42.0 h = 52 km MAG=4.9 D = 85.86 Az = 320.4 (USCGS)
	e	A	42 24.5	
17.	ePKP	A	07 49 36	<u>New Hebrides Islands</u> 15.35 S 167.57 E H = 07 30 22.4 h = 134 km MAG=4.9 D = 139.80 Az = 336.3 (USCGS) PKPV:1.6s 33.0nm
17.	eP	A	08 12 18	<u>Hainan Island</u> 18.03 N 110.64 E H = 08 00 01.0 h = normal MAG=4.9 D = 81.83 Az = 320.6 (USCGS)
17.	eP	A	15 12 18	<u>Southern Nevada</u> 37.08 N 116.00 W H = 15 00 00.0 h = 0 km MAG=5.5 D = 81.25 Az = 30.7 (USCGS) 37°05'01.6" N 116°00'05.6" W Nevada Test Site "Grape A" (USAEC) PV:1.2s 28.5nm MPV=5.2

December 1969

Moxa

Day	Phase	h m s	Remarks
17.	ePKHKP A	21 01 26.5	<u>Kermadec Islands Region</u> 30.90 S 179.91 W H = 20 42 13.9 h = 407 km MAG=4.4 (USCGS) D = 158.4 PKP2V:1.3s 30.6nm
	ePKP2 A	02 00	
18.	ePKHKP A	06 29 55	<u>Kermadec Islands</u> 27.05 S 176.31 W H = 06 09 56.2 h = 49 km MAG=4.9 D = 155.67 Az = 347.7 (USCGS) LmH:16s 0.5/um MLH=5.3 LmV:18s 0.7/um
	LmH B	07 51.0	
	LmV B	54.0	
18.	-eP1 A	13 43 08	<u>Sakhalin Island</u> 46.3 N 142.50 E H = 13 32 05.2 h = 344 km MAG=5.9 D = 74.53 Az = 330.0 (USCGS) P1V:1.0s 35.4nm MP1V=5.1 P2V:1.4s 260.0nm MP2V=5.8
	eiP2 A	43 09.5	
	-i A	43 13.2	
	esP C	44 57	
	ePPP C	47 42	
	eS C	52 12	
	i B	52 18	
	eiSKS C	52 44	
	ePS C	53 36	
	esS C	54 33	
esSSS C	14 02 00		
18.	eP A	19 05 33	<u>Jan Mayen Island</u> 71.67 N 2.70 W H = 19 00 39.9 h = normal MAG=4.6 D = 22.07 Az = 155.2 (USCGS) PV:1.3s 21.8nm MPV=4.4
	e A	05 39.5	
18.	eP A	19 12 18.5	<u>Southern Nevada</u> 37.12 N 116.03 W H = 19 00 00.0 h = 0 km MAG=5.2 D = 81.23 Az = 30.7 (USCGS) 37°07'14.1" N 116°01'53.1" W Nevada Test Site "Terrine" (USAEC) PV:1.3s 17.5nm MPV=5.0
19.	eP A	04 42 04	<u>Kurile Islands</u> 43.23 N 147.71 E H = 04 29 59.7 h = 29 km MAG=4.7
	e A	42 15	

296

December 1969

Moxa

Day	Phase	h m s	Remarks
cont.			
19.	LmH B	05 14.5	D = 78.99 Az = 333.3 (USCGS) PV:1.8s 43.9nm MPV=5.2 LmH:20s 1.7/um MLH=5.4 LmV:15s 1.3/um MLV=5.4
	LmV B	21.8	
19.	eiP A	13 41 55.5	<u>Southern Alaska</u> 60.23 N 146.95 W H = 13 30 54.6 h = 14 km MAG=5.2 D = 68.13 Az = 14.5 (USCGS) PV:1.3s 52.4nm MPV=5.6
	e A	42 00	
19.	e A	23 57 58.5	<u>Greece</u> 39.22 N 22.26 E H = 23 54 39.3 h = 65 km MAG=4.5 D = 13.67 Az = 330.2 (USCGS)
20.	eP A	07 10 32	<u>Andreanof Islands, Aleutian Is.</u> 51.69 N 173.53 W H = 06 58 36.5 h = 38 km MAG=4.0 D = 77.95 Az = 356.7 (USCGS)
20.	ePn A	08 37 12.5	<u>Germany</u> 47.7 N 11.1 E H = 08 36 25 (BCIS) D = 3.0
	i A	37 19.5	
	ePg A	37 23.5	
	eSn A	37 47	
	eSg A	38 01	
20.	-eP A	17 44 24	<u>Southern Greece</u> 36.62 N 23.50 E H = 17 40 36.3 h = 88 km MAG=4.6 D = 16.42 Az = 332.4 (USCGS) PV:1.8s 54.0nm MPV=4.4
21.	ePKIKP A	00 49 16.5	<u>Kermadec Islands</u> 29.68 S 179.14 W H = 00 29 50.0 h = 268 km MAG=4.9 (USCGS) D = 157.5 PKP2V:1.2s 57.0nm
	+iPKP2 A	49 48	
21.	eP A	10 30 36.5	<u>Ryukyu Islands</u> 28.16 N 130.59 E H = 10 18 02.4 h = 28 km MAG=5.6 D = 84.85 Az = 326.0 (USCGS)
	LmH B	11 06.9	
	LmV C	14.5	

297

December 1969

Moxa

Day	Phase	h m s	Remarks
cont. 21.			PV:1.4s 20.9nm MPV=5.2 LmH(B):16s 1.5/um MLH=5.5 LmV(C):14.5s 1.3/um MLV=5.5
21.	eP e	A 12 32 16.5 A 32 29.5	<u>Hokkaido, Japan</u> 42.47 N 144.94 E H = 12 20 14.8 h = 28 km MAG=4.9 D = 78.72 Az = 331.8 (USCGS)
21.	eP LmH LmV	A 19 09 06.5 B 14.8 B 15.0	<u>Rumania</u> 45.56 N 26.93 E H = 19 06 22.2 h = 34 km MAG=4.6 D = 11.43 Az = 301.9 (USCGS) PV:1.8s 27.0nm LmH:14s 1.6/um MLH=4.1 LmV:15s 1.7/um
21.	eP	A 22 05 19	<u>Dodecanese Islands</u> 36.69 N 28.39 E H = 22 01 06.7 h = 68 km MAG=4.7 D = 18.42 Az = 324.5 (USCGS) PV:1.2s 20.3nm MPV=4.2
22.	e(pP)	A 01 27 14	<u>Kurile Islands</u> 43.61 N 147.69 E H = 01 15 03.3 h = normal MAG=4.2 D = 78.65 Az = 333.2 (USCGS)
22.	ePKP	A 08 33 18	<u>Tonga Islands</u> 16.04 S 173.13 W H = 08 13 42.3 h = normal MAG=4.8 D = 145.26 Az = 354.7 (USCGS) PV:1.0s 7.9nm
22.	+eiP e LmH LmV	A 11 31 12.5 A 31 24.5 B 12 12.8 B 16.4	<u>Fox Islands, Aleutian Is.</u> 52.47 N 168.14 W H = 11 19 19.3 h = normal MAG=5.2 D = 77.27 Az = 0.2 (USCGS) PV:1.4s 69.7nm MPV=5.6 LmH:17s 1.7/um MLH=5.4 LmV:16s 1.1/um MLV=5.3

December 1969

Moxa

Day	Phase	h m s	Remarks
22.	e(PKP2)	A 21 12 14	<u>Kermadec Islands</u> 20.01 S 176.62 W H = 20 51 41.4 h = 31 km MAG=4.9 (USCGS) D = 157.4
23.	eP e +iS +i eSS e e LmH LmV	A 13 34 03 A 34 08 C 43 16 B 43 24 B 47 46 C 47 56 B 48 04 B 14 07.8 B 12.6	<u>Near East Coast of Kamohatka</u> 57.36 N 163.11 E H = 13 22 54.2 h = normal MAG=5.4 D = 69.83 Az = 341.1 (USCGS) PV:1.5s 45.2nm MPV=5.4 LmH:16s 5.0/um MLH=5.9 LmV:14s 2.7/um MLV=5.9
23.	eP epP e	A 14 20 53 A 21 24.5 A 21 30	<u>Mindoro, Philippine Islands</u> 13.82 N 120.64 E H = 14 08 00.6 h = 118 km MAG=5.3 D = 91.07 Az = 323.0 (USCGS) PV:2.0s 77.0nm MPV=5.5
23.	eP	A 16 02 05	<u>Kurile Islands</u> 44.54 N 147.34 E H = 15 50 16.7 h = 90 km MAG=4.5 D = 77.70 Az = 332.9 (USCGS)
24.	+eP1 eP2 e e(PP)	A 05 09 34 A 09 36.5 A 09 51.5 A 09 55	<u>North Atlantic Ocean</u> 35.95 N 10.40 W H = 05 04 44.5 h = normal MAG=5.1 D = 21.62 Az = 40.4 (USCGS) P1V:1.1s 36.3nm MP1V=4.7 P2V:1.4s 93.0nm MP2V=5.0
24.	eP	A 18 44 38	<u>Fox Islands, Aleutian Is.</u> 52.59 N 168.36 W H = 18 32 45.0 h = 24 km MAG=4.5 D = 77.14 Az = 0.0 (USCGS)
24.	ePKP	A 20 55 41	<u>Fiji Islands</u> 15.57 S 177.82 W H = 20 36 56.3 h = 455 km MAG=4.6 D = 144.19 Az = 349.7 (USCGS) PKPV:1.4s 16.3nm

December 1969

Moxa

Day	Phase	h m s	Remarks
25.	eP	A 02 12 29	<u>Turkey</u> 38.97 N 42.61 E H = 02 07 12.1 h = 65 km MAG=4.9 D = 24.71 Az = 308.3 (USCGS) PV:1.2s 18.3nm MPV=4.5
25.	eP	A 16 42 04	<u>Loyalty Islands</u> 21.21 S 170.22 E H = 16 22 36.9 h = 124 km MAG=4.8 D = 146.15 Az = 335.4 (USCGS) PV:1.0s 23.6nm
25.	eP1	AB 21 43 16.5	<u>Leeward Islands</u> 15.77 N 59.65 W H = 21 32 27.3 h = 7 km MAG=6.4 D = 66.10 Az = 41.3 (USCGS) P1V(B):19s 23/um MP1V=7.1 P2V(A):2.2s 824.0nm MP2V=6.6 LmV:18.5s 189.0/um MLV =7.4 LmH:18.5s 143.0/um MLH =7.2
	eP2	A 43 19.3	
	ei	B 43 32	
	e	B 47 32	
	eS	B 52 06	
	ei	B 52 20	
	ei	B 52 44	
	iSS	B 56 52	
	eiSSS	B 59 40	
	i	B 22 01 52	
	LmV	B 08.5	
	LmH	B 08.6	
	ePKPPKP	A 11 46	
	e	A 11 57	
	e	A 12 05	
25.	eP	A 22 37 01	<u>Leeward Islands</u> 15.83 N 59.69 W H = 22 26 11.8 h = 15 km MAG=5.5 D = 66.08 Az = 41.3 (USCGS)
25.	eP1	A 22 41 51	<u>Leeward Islands</u> 16.08 N 59.77 W H = 22 31 02.3 h = 8 km MAG=6.0 D = 65.94 Az = 41.4 (USCGS) P1V:1.6s 44.0nm MP1V=5.4 P2V:2.0s 316.0nm MP2V=6.2
	eP2	A 41 53.5	
	e	A 42 06	
	ePKPPKP	A 23 10 18	
	e	A 10 35	
	e	A 10 46	

December 1969

Moxa

Day	Phase	h m s	Remarks
26.	+iP	A 00 29 58	<u>Alaska Peninsula</u> 55.18 N 160.40 W H = 00 18 21.0 h = 25 km MAG=5.3 D = 74.34 Az = 5.3 (USCGS) PV:2.0s 154.0nm MPV=5.7
	ei	A 30 10	
	ei	A 30 14.5	
	+ei	A 30 21	
26.	eP	A 08 57 02	<u>Leeward Islands</u> 15.79 N 59.56 W H = 08 46 15.2 h = 22 km MAG=5.2 D = 66.02 Az = 41.3 (USCGS)
	e	A 57 20	
26.	eP	A 10 44 47	<u>Leeward Islands</u> 16.15 N 59.76 W H = 10 33 59.8 h = 16 km MAG=5.4 D = 65.89 Az = 41.4 (USCGS) LmH(C):18s 0.5/um MLH=4.8 LmV(C):16s 0.7/um MLV=5.0
	LmH	C 11 13.5	
	LmV	C 13.5	
26.	eP	A 20 14 13.5	<u>Leeward Islands</u> 15.84 N 59.58 W H = 20 03 28.8 h = normal MAG=5.4 D = 66.00 Az = 41.3 (USCGS) PV:1.2s 20.3nm MPV=5.2
	e	A 14 28	
	e	A 14 31	
27.	eP	A 07 35 16	<u>Aegean Sea</u> 39.15 N 23.91 E H = 07 31 52.1 h = 31 km MAG=4.6 D = 14.40 Az = 327.0 (USCGS) PV:1.2s 8.1nm LmH:15s 1.2/um MLH=4.1
	LmH	B 41.1	
	LmV	B 42.6	
27.	e	A 09 30 50	Probably <u>South of Sumbawa Islands</u> (USCGS)
27.	eP	A 10 06 21	<u>Leeward Islands</u> 16.25 N 59.61 W H = 09 55 35.5 h = normal MAG=5.0 D = 65.72 Az = 41.4 (USCGS)
	e	A 06 31	
27.	eP	A 14 13 48	<u>Leeward Islands</u> 16.22 N 59.62 W H = 14 03 04.4 h = normal MAG=5.5 D = 65.75 Az = 41.4 (USCGS) PV:1.6s 27.5nm MPV=5.2 LmV:16s 0.8/um MLV=5.1
	LmH	C 35.5	
	LmV	B 43.0	

December 1969

Moxa

Day	Phase	h m s	Remarks
27.	eP	A 15 54 38	<u>Leeward Islands</u> 16.17 N 59.67 W H = 15 43 54.7 h = normal MAG=5.4 D = 65.81 Az = 41.4 (USCGS)
28.	eP	A 01 31 12.5	<u>Kurile Islands</u> 43.56 N 147.77 E H = 01 19 13.5 h = 47 km MAG=4.8 D = 78.71 Az = 333.3 (USCGS)
	epP	A 31 25	
	LmH	C 02 03.5	PV:1.4s 23.3nm MPV=5.0 LmH(C):20s 0.8/um MLH=5.1
	LmV	C 10.7	LmV(C):18s 0.5/um MLV=4.9
28.	+iP	A 03 54 44	<u>Eastern Kazakh SSR</u> 50.00 N 77.82 E H = 03 46 58.0 h = 0 km MAG=5.7 D = 40.99 Az = 297.4 (USCGS) PV:0.7s 142.0nm MPV=5.8 Probably underground explosion
	ePn	A 56 16	
28.	eP	A 04 36 41	<u>Kurile Islands</u> 43.77 N 147.74 E H = 04 24 41.1 h = 30 km MAG=4.5 D = 78.51 Az = 333.2 (USCGS)
	epP	A 36 53	
28.	+eP	A 05 05 11.5	<u>Kurile Islands</u> 43.54 N 147.87 E H = 04 53 09.2 h = 26 km MAG=5.3 D = 78.76 Az = 333.3 (USCGS) PV:1.3s 43.7nm MPV=5.4 LmH:21s 2.9/um MLH=5.6 LmV:16s 2.2/um MLV=5.6
	i	A 05 24.5	
	LmH	B 37.7	
	LmV	B 44.8	
28.	eP	A 05 18 52	<u>Kurile Islands</u> 43.62 N 147.65 E H = 05 06 52.7 h = 45 km MAG=4.4 (USCGS) D = 78.6
	epP	A 19 04	
28.	eP	A 14 50 00	<u>Kurile Islands</u> 43.59 N 147.77 E H = 14 37 58.7 h = normal MAG=4.6 D = 78.68 Az = 333.3 (USCGS) LmH(C):22s 0.6/um MLH=4.9 LmV(C):16s 0.5/um MLV=5.0
	epP	A 50 18	
	esP	A 50 28	
	LmH	C 15 22.0	
	LmV	C 29.5	

302

December 1969

Moxa

Day	Phase	h m s	Remarks
28.	ePKHKP	A 21 44 23	<u>South of Fiji Islands</u> 22.32 S 179.38 W H = 21 25 28.2 h = 485 km MAG=4.5 D = 150.44 Az = 345.8 (USCGS)
28.	eP	A 22 05 20.5	<u>Albania</u> 40.67 N 19.85 E H = 22 02 34.3 h = normal MAG=4.6 D = 11.51 Az = 332.8 (USCGS)
	e	A 09 05	
	e	A 09 40	
	LmH	B 11.1	LmH:12s 1.0/um MLH=4.0
	LmV	B 11.2	LmV:11s 1.0/um
29.	eP	A 01 02 34	<u>Leeward Islands</u> 16.16 N 59.67 W H = 00 51 47.2 h = 17 km MAG=5.6 D = 65.82 Az = 41.4 (USCGS) PV:1.7s 33.4nm MPV=5.3 LmH:20s 2.6/um MLH=5.4 LmV:17s 2.4/um MLV=5.5
	e	A 02 46	
	e	A 04 12	
	eS	C 11 30	
	e(ScS)	B 12 32	
	LmH	B 24.5	
	LmV	B 24.5	
29.	e	A 14 06 39.5	<u>Leeward Islands</u> 16.12 N 59.67 W H = 13 55 49.87 h = normal MAG=5.4 (USCGS) D = 65.9 LmV(C):16s 0.7/um MLV=4.9
	LmV	C 53.2	
30.	+iP	A 05 16 01.5	<u>United Arab Republic</u> 27.50 N 33.88 E H = 05 10 03.3 h = 16 km MAG=4.9 D = 28.66 Az = 329.8 (USCGS) PV:1.8s 44.0nm MPV=5.0
31.	eP	A 05 41 29	<u>Crete</u> 34.36 N 26.13 E H = 05 37 02.5 h = 27 km MAG=5.0 D = 19.42 Az = 331.3 (USCGS) LmH:14.5s 1.5/um MLH=4.4 LmV:17s 1.1/um MLV=4.4
	LmH	B 50.5	
	LmV	B 50.5	
31.	ipP	A 05 51 20.5	<u>Kurile Islands</u> 43.13 N 147.52 E H = 05 39 06.2 h = 50 km MAG=4.9 D = 79.01 Az = 333.2 (USCGS)

303



December 1969

Moxa

Day	Phase	h m s	Remarks
31.	eP	A 13 20 13	<u>Yugoslavia</u> 44.86 N 17.16 E
	i	A 20 14	H = 13 18 32.8 h = normal MAG=5.1
	eiS	A 21 29	D = 6.89 Az = 329.2 (USCGS)
	LmH	B 22.5	P2V:1.2s 204.0nm
	LmV	B 23.2	LmH:12s 40.1/um MLH=5.2 LmV:6s 8.0/um
31.	eP	ABC 19 14 22	<u>Ryukyu Islands</u> 28.51 N 129.13 E
	ei	A 14 26	H = 19 01 56.1 h = 44 km MAG=5.9
	-i	A 14 29	D = 83.84 Az = 325.4 (USCGS)
	ei	C 15 12	PV(A):1.8s 325.0nm MPV=6.4
	e	B 17 04	PV(B):10s 4.67/um MPV=6.7
	ePP	C 17 36	PV(C):14s 3.34/um MPV=6.4
	eS	B 24 40	LmH:14s 78.4/um MLH=7.2
	eiPS	C 25 42	LmV:14s 93.4/um MLV=7.3
	eSS	C 30 16	
	i	C 30 38	
	ePKKP	A 32 36	
	eSSS	C 34 00	
	e	C 34 30	
	LmH	B 56.4	
	LmV	B 56.4	
	31.	eP	A 20 54 38
31.	e	A 23 58 19	Probably <u>Bali Sea</u>
	e	A 58 21.5	
	e	C 59 00	
	e	C 24 05 05	
	e	C 06 08	

## COSPAR

### Space Research XI

Proceedings of Open Meetings of Working Groups of the Thirteenth Plenary Meeting of COSPAR, Leningrad, USSR, 20-29 May 1970 and of the Symposium on Remote Sounding of the Atmosphere (jointly sponsored by COSPAR, WMO and IAMAP/IUGG)

Leningrad, USSR, 22, 25 and 26 May 1970

(Organized by The Committee on Space Research - COSPAR and The USSR Academy of Sciences)

Edited by K. Ya. KONDRATYV/M. J. RYCROFT/C. SAGAN

Vol. 1 and 2

1971. XX, 1415 Seiten - 840 Abbildungen - 172 Tabellen -

gr. 8° - Leinen 200,- M

Bestell-Nr. 761 513 3 (3059/XI)

### Space Research XII

Proceedings of Open Meetings of Working Groups of the Fourteenth Plenary Meeting of COSPAR, Seattle Washington, USA, 21 June-2 July, 1971

(Organized by The Committee on Space Research - COSPAR and The United States National Academy of Sciences)

Edited by S. A. BOWHILL/L. D. JAFFE/M. J. RYCROFT

1972. XL, 1815 Seiten - 995 Abbildungen - 120 Tabellen -

gr. 8° - Leinen 260,- M

Bestell-Nr. 761 674 2 (3059/XII)

*Bestellungen durch eine Buchhandlung erbeten*



AKADEMIE-VERLAG

DDR-108 Berlin, Leipziger Str. 3-4