

DEUTSCHE AKADEMIE DER WISSENSCHAFTEN ZU BERLIN

Veröffentlichungen des Instituts
für Geodynamik Jena

Reihe B: Seismologische Bulletins
Herausgegeben von Heinz Stiller

Seismological Bulletin 1966

Station Moxa

By

Peter Bormann and Johannes Stelzner



AKADEMIE-VERLAG · BERLIN

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with 13 Figures



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P R E F A C E

This "Seismological Bulletin 1966 Station Moxa" continues the "Series B" of the "Publications of the Institute of Geodynamics Jena".

The equipment of Station Moxa has recently been extended. Since the beginning of 1966 two linear strain seismographs installed in NS- and EW-direction have been working in the station. The instruments measure the variations in the distance of two piers by comparison with length standard of fused-quartz tubes. This rod is 25.8 m in length. The two electromagnetic transducers at the end of each rod are coupled with a short- and a long-period galvanometer.

In order to prove methods for increasing the precision in magnitude determination two electromagnetic long-period horizontal seismographs HSJ-I have been coupled with short-period galvanometers. The instruments record the velocity of the ground motion in the range of periods from 0.3 to 20 seconds. A ground velocity of 10^{-3} mm/s gives a deviation of 1 mm on the seismogram.

This Seismological Bulletin has been developed from the provisional evaluations of the Seismological Service under the direction of JOHANNES STELZNER who was assisted by DOROTHEA GÜTH.

Final interpretations of the registrations were done by PETER BORMANN according to the principles applied in the Bulletin for the year 1965. Control of the instruments of the Station Moxa was carried out under CHRISTIAN TEUPSER.

A contribution concerning Jeffreys-Bullen travel-time residuals of P-wave onsets at the Station Moxa by PETER BORMANN is added to the Bulletin.

Jena, December 1968

H. STILLER

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Preliminary notes for the interpretation of seismograms

In the Bulletin the international code is used:

- Pg — direct longitudinal wave in near epicentral distances ($D < 10^\circ$).
- Pb, Pn — guided longitudinal head waves along the CONRAD- or MOHOROVIĆ-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)
- PKHP — direct longitudinal wave refracted in the intermediary zone between inner and outer core. Phase symbol according to BOLT [1] (Traveltime branch GH)
- PKP2 — direct longitudinal wave only travelled through the outer core (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 within the core once 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 MOHOROVIĆ 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
 PeP, SeS, PeS, 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 earthquake 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
 Pn, Sn — teleseismic Pn and Sn-waves in the epicentral distances $23^\circ < D < 40^\circ$ after BATH [2]
 Pa, Sa — probably guided waves in the astenosphere channel or higher modes of surface waves
 PL — leaking modes, normal dispersed train of waves of periods greater than about 10 s, beginning at or near the time of initial P-wave
 Li, Lg1, Lg2, Rg — guided waves in the continental crust, probably higher modes of surface waves
 L(3.20), R(2.90) — guided waves in the continental crust, probably higher modes of surface waves with the apparent horizontal velocity of $3.20 \text{ km} \cdot \text{s}^{-1}$ and $2.90 \text{ km} \cdot \text{s}^{-1}$ respectively
 LQ — beginning of LOVE waves
 LR — beginning of RAYLEIGH waves
 LmV, LmH — maximum of the vertical respectively horizontal component of longperiodical surface waves
 MPV, MPPV — magnitude of the vertical component V of adequate body waves
 MPPH, MSH — magnitude of the horizontal component H of adequate body waves
 MLV — magnitude of the vertical component V of the maximum of surface waves

MLH — magnitude of the horizontal component of the maximum of surface waves
 i — sharp onsets (impetus)
 e — emersion of motion (emersio)
 D — epicentral distances in degrees ($^\circ$), 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 the travel-time curves for deep focus earthquakes after GUTENBERG and RICHTER [3]
 H — origin time in GMT (Greenwich Mean Time)
 + — compression
 — — dilatation
 USCGS — United States Coast and Geodetic Survey, Washington
 BCIS — Bureau Central International de Séismologie, Strasbourg
 ANUSSR — Academia Nauk USSR, Moscow
 UPP — Seismological Institute Uppsala, Sweden

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

All dates of amplitudes of the true ground motion, given in length unit nanometer ($1 \text{ nm} = 10^{-6} \text{ mm}$) were calculated from the registrations of short-period vertical broad-band seismographs of the type: "Modified Krumbach" or "Seismograph Kirnos Modernised-III" (SKM-III). All dates of amplitudes of the true ground motion, given in length unit micrometer ($1 \mu\text{m} = 10^{-3} \text{ mm}$) were calculated from registrations of long-period broad-band "Seismic Station Apparatus Type Jena-I" (SSJ-I).

The evaluation of amplitudes and periods of the different phases are given in column "Remarks" and indicated in the following manner:

PV — first P-respectively PKP-onsets (vertical component)
 PV1, PV2, PV3 — multiple P-respectively PKP-onsets interpreted or not interpreted corresponding to temporal sequence
 LmH, LmV — maximum of long periodical surface waves (horizontal or vertical component).

The symbols to characterize the amplitude and period evaluation of all further interpreted phases are used analogically. In the case of multiplicity of the phase the number of the onset is added (e.g.: PV, SH2, SPV, SSH, etc.). The following

evaluation of amplitudes and periods were used for calculations of magnitudes on the basis of the relation

$$M = \log \left(\frac{A}{T} \right) + \sigma(D) + S$$

for PV, PH, PPV, PPH, SH, LmH, LmV. The $\sigma(D)$ -standard calibrating functions [4] were used for body waves PV, PH, PPH and SH of shallow earthquakes ($h < 60$ km) and for their surface waves ($h < 100$ km). The value of magnitude for PPV waves as well as for all the other body waves of earthquakes with focal depth $h > 60$ km are calculated on the basis of Q-functions [5]. No magnitudes were calculated from the surface waves of earthquakes with $h > 100$ km. The station correction S was not yet taken into consideration. The sources of all dates in the column "Remarks", which were not the result of own findings, are given in brackets, e.g.: (USCGS), (BCIS).

- [1] BOLT, A., The velocity of seismic waves near the earth's 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., Materials for the study of deep-focus earthquakes. Bull. Seism. Soc. Am., **26** (1936) 4, 341–390.
- [4] KÁRNIK, 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., Magnitude and energy of earthquakes. Annali di Geofisica, **9** (1956) 1, 1–15.

Seismological Station Moxa (MOX) of the Institute of Geodynamics, Jena

Altitude above the mean sea level: 455 m
Foundation: clay slate of the lower carboniferous formation
Longitude: $\lambda = 11^{\circ}36'58''$ E
Latitude: $\varphi = 50^{\circ}38'46''$ N

Seismographs and their Parameters 1966

Explanation of the abbreviations:

- T_0 — seismometer free period
- T_g — galvanometer free period
- D_s — seismometer damping
- D_g — galvanometer damping
- V_0 — magnification factor
- N — north-south component
- E — east-west component
- Z — vertical component

Type	Comp.	T_s [s]	T_g [s]	D_s	D_g	V_0
Krumbach (modif.)	Z	2.0	0.20	0.54	3.58	23 000
Krumbach	Z	2.0	2.0	0.95	1.0	2000*)
SKM-III	N	1.53	0.34	0.5	2.23	19 000
	E	1.45	0.35	0.5	2.08	23 000
	Z	1.49	0.35	0.5	2.12	19 000
SSJ-I	N	20	1.13	0.48	8.79	220
		20	1.15	0.48	8.59	1100
	E	20	1.13	0.51	8.83	210
		20	1.16	0.51	8.63	1030
	Z	20	1.13	0.51	8.83	210
		20	1.26	0.51	7.83	1010
SSJ-I/L	N	30	70.7	1.24	0.5	1500
	E	30	79.1	1.3	0.5	1200
	Z	30	77.2	1.3	0.5	1300
SSJ-I/V	N	20	0.37	0.52	0.50	17 000
	E	20	0.35	0.52	0.50	19 000
Krumbach	N	2.5		0.40		2000
	E	2.5		0.40		2000
Strain	N		48.6		0.60	55**)
			1.68		0.71	21 000**)
	E		53.4		0.69	74**)
			1.29		0.75	22 000**)
Wiechert	N	7.0		0.25		200
1200 kp	{E	7.7		0.28		175
Mainka {150 kp	N	21.0		0.30		51
200 kp	E	22.0		0.48		50

*) maximum magnification

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

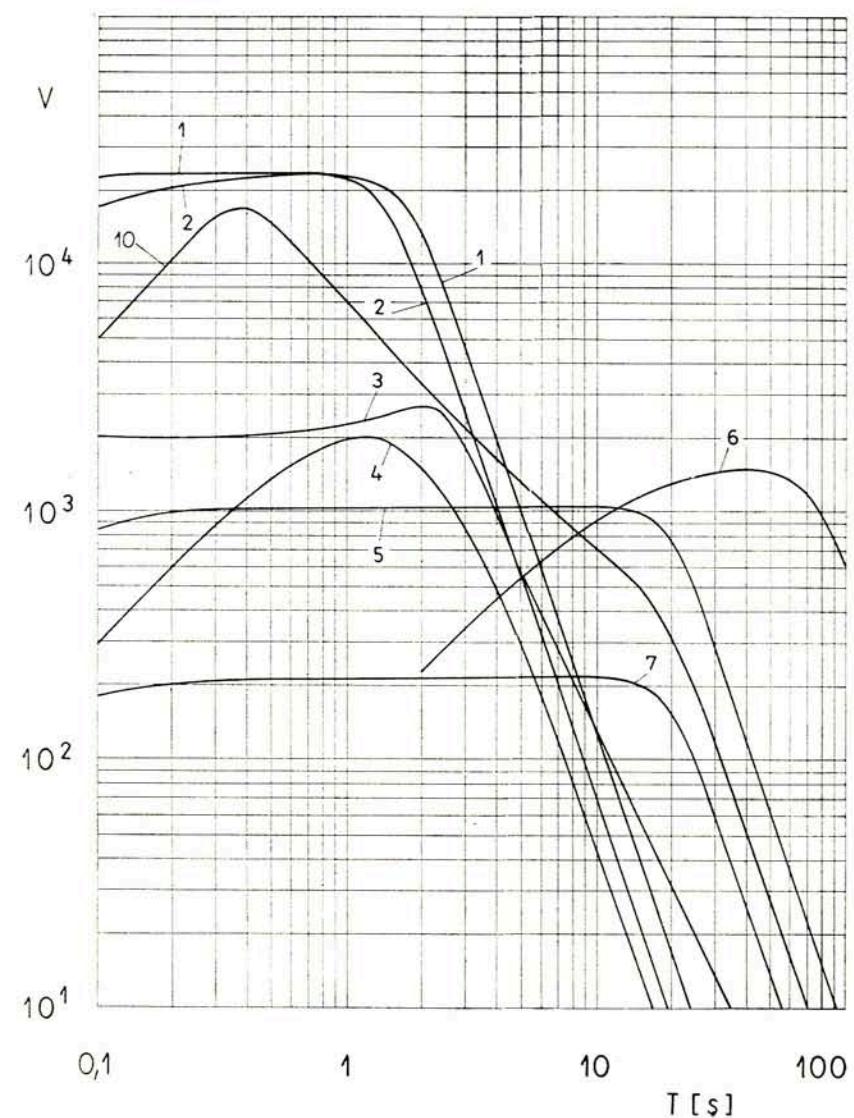


Fig. 1. Mean amplitude characteristics of the electromagnetic and optical seismographs of the station Moxa in 1966

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

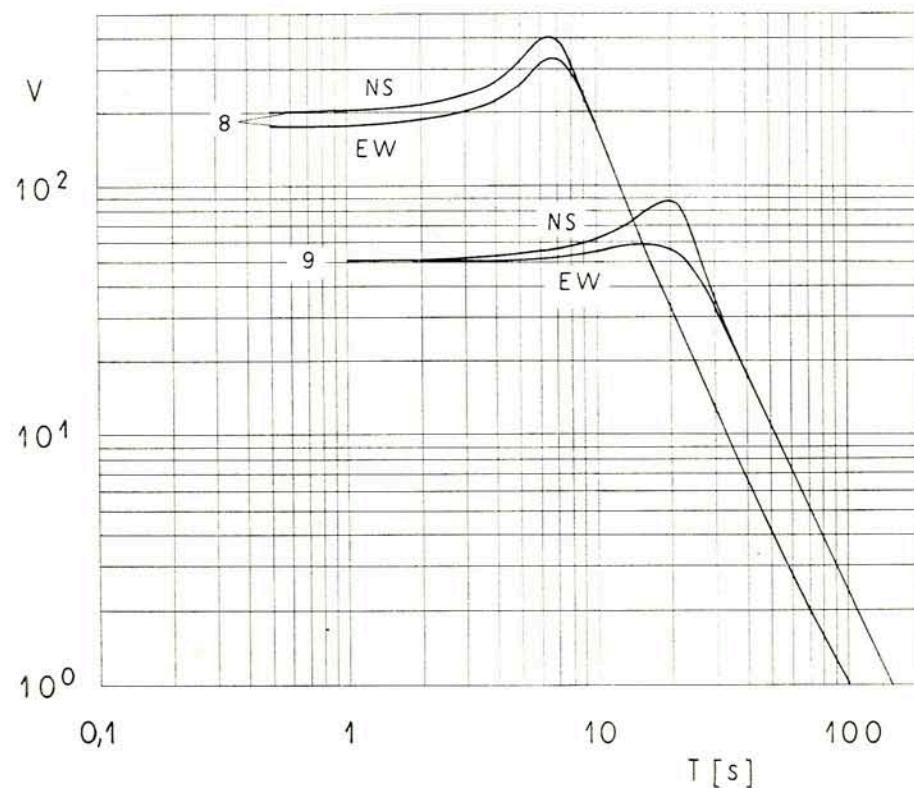


Fig. 2. Mean amplitude characteristics of the mechanical seismographs of the station Moxa in 1966

8 — Wiechert Seismograph (NS- and EW-component)
9 — Mainka Seismograph (NS- and EW-component)

Seismological Recordings at Station Moxa 1966

January 1966

Moxa

Day	Phase	h m s	Remarks
2.	ePKP	15 06 44.5	<u>Tonga Islands</u> 17.08°S 171.98°W H = 14 47 06.3 h = 39 km MAG=4.9 D = 146.4° Az = 355.9° (USCGS) PV:1.6s 36.9nm
2.	eP	23 16 00	<u>South of Greece</u> 37.53°N 23.38°E
	e	16 27	H = 23 12 18.8 h = 22 km MAG=4.9
	e	16 41.5	D = 15.6° Az = 331.1° (USCGS)
	eLg2(3.38)	20 54	Lg2H:13s 2.4/ μ m
3.	ePKIKP	13 52 15	<u>Fiji Islands</u> 20.28°S 178.49°W
	ePKHKP	52 20.5	H = 13 33 32.6 h = 537 km MAG=5.3 (USCGS)
	ePKP2	52 27	D = 149.6° PV2:1.8s 132nm PV3:1.6s 60.5nm
3.	+ePKIKP	16 03 49	<u>New Hebrides Islands</u> 18.94°S 169.36°E H = 15 44 44.9 h = 249 km MAG=5.4 D = 143.8° Az = 335.9° (USCGS) PV:1.4s 76.2nm
3.	eP	18 28 31	<u>Colombia</u> 4.72°N 75.99°W
	epP	28 57	H = 18 16 05.9 h = 103 km MAG=4.8 (USCGS)
	e	30 11.5	D = 84.8° h = 105 km PV:1.7s 36.1nm MPV=5.0
4.	eP	07 58 49.5	<u>Andaman Islands</u> 11.76°N 95.00°E
	epP	58 58	H = 07 47 00.0 h = normal MAG=5.1 D = 76.8° Az = 319.5° (USCGS); h = 26 km PV:1.2s 27.2nm MPV=5.3
5.	eP1	17 33 13	<u>Andaman Islands</u> 13.21°N 95.48°E
	eP2	33 18	H = 17 21 28.4 h = 37 km MAG=5.3
	eP3	33 24	D = 76.0° Az = 319.3° (USCGS)
	eP4	33 29	PV2:2.6s 195nm PV3:1.6s 147nm
	LmH	18 14.3	PV4:1.6s 232nm

January 1966

Moxa

Day	Phase	h m s	Remarks
cont.			
5.	LmV	18 14.3	LmH:16s 2.2/ μ m LmV:15s 3.2/ μ m MLH=5.6 MLV=5.8 The time differences eP2 - eP1 and eP4 - eP3 are equal. The first onset-pair is relatively longperiodical, the second one has clearly shorter periods. The amplitude-ratios P4/P3 and P2/P1 are also equal. It seems possible to attribute this two onset pairs to two shocks in the same focus with different dynamical features.
5.	eP	18 27 33	PV:2.0s 66.5nm
7.	eP	07 56 53	<u>Off East Coast of Kamchatka</u>
	ei	56 56.5	52.64°N 160.02°E
	ei	57 09	H = 07 45 27.3 h = 92 km MAG=5.1 (USCGS) D = 73.7°
7.	ePg	12 00 35.5	<u>Explosion/CSSR</u> 50.4°N 13.8°E
	1Sg	00 55.5	D = 1.4°
7.	eP	15 01 15	PV:0.8s 26.1nm
7.	e(PKIKP)	15 16 39	<u>New Britain Region</u> 5.22°S 152.62°E H = 14 57 43.8 h = 47 km MAG=5.3 (USCGS) D = 124.2°
8.	eP	22 51 34	<u>Near Coast of Honshu/Japan</u>
	epP	51 38	37.25°N 138.34°E H = 22 39 17.9 h = 10 km MAG=5.6 (USCGS) D = 80.9° h = 15 km PV:1.5s 60.0nm MPV=5.5
10.	eP	01 32 02.5	<u>Mindoro/Philippine Islands</u>
	epP	32 40.5	13.94°N 120.78°E
	e	32 52	H = 01 19 12.1 h = 134 km MAG=5.5
	ePP	35 42	D = 91.1° Az = 323.0° (USCGS);

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Day	Phase	h m s	Remarks
cont.			
10.	LmH	02(06)	h = 152 km; PV:1.3s 46.5nm PPV:1.7s 38.9nm MPV=5.5 MPPV=5.5
11.	+eP	14 28 57	<u>Near Coast of Honshu/Japan</u>
	ePP	32 09	33.68°N 137.18°E
	ePPP	34 06	H = 14 16 32.2 h = normal MAG=5.3
	eS	39 24	D = 83.3° Az = 328.6° (USCGS)
	e	44(16)	PV:2.2s 164nm
	LmV	15 11.3	LmH:13.6s 8.6/ μ m LmV:12s 11/ μ m
	LmH	11.8	MPV=5.8 MLH=6.4 MLV=6.5
11.	i	14 54 16.8	<u>France</u> 44.5°N 6.7°E
	e(Sg)	54 24	H = 14 50 36 (BCIS)
	e	54 32	D = 7.0°
13.	eP	01 48 16	<u>Turkey</u> 38.60°N 29.20°E
	e	48 27	H = 01 44 14.8 h = 42 km MAG=4.3 D = 17.3° Az = 319.8° (USCGS)
			PV:1.6s 40nm
13.	e	09 13 14	
13.	+IP	10 52 57	<u>Near Islands/Aleutian Is.</u>
	i(sp)	53 05.5	52.91°N 172.01°E
	e(PP)	55 45.5	H = 10 41 11.0 h = 14 km MAG=5.6 (USCGS)
	ePS	11 03 20	D = 75.6° (h = 24 km)
	eSS	07 36	PV:1.8s 250nm
	LmV	24	LmH:17.5s 2.7/ μ m LmV:22s 2.5/ μ m
	LmH	29	MPV=6.0 MLH=5.6 MLV=5.5
			e 55 30.5
14.	eP	18 43 59	<u>Crete</u> 34.74°N 26.96°E
			H = 18 39 31.5 h = normal MAG=4.8 D = 19.4° Az = 329.6° (USCGS)
			PV:1.2s 20.5nm

January 1966

Moxa

Day	Phase	h m s	Remarks
15.	e(PKHKP)	11 16 24.5	<u>Tonga Islands</u> 20.31°S 174.52°W
	e	16 32	H = 10 56 36.2 h = normal MAG=4.7
			D = 149.3° Az = 352.3° (USCGS)
			PV:1.6s 31.5nm
15.	eP	12 10 59	<u>Gulf of Alaska</u> 59.47°N 144.60°W
	ePP	13(34)	H = 11 59 58.6 h = normal MAG=5.1 (USCGS)
	eS	20 06	D = 68.4°
	ePPS	20 42	PV:1.8s 43.7nm SH:9.5s 0.9/um
	eScS	21 00	LmH:14s 1.0/um LmV:14s 1.6/um
	LmH	47.0	MPV=5.4 MSH=5.9 MLH=5.3 MLV=5.4
	LmV	47.8	e 11 04 e 24 12
15.	eP	18 11 34	<u>Greece</u> 36.70°N 23.12°E
	LmH	18	H = 18 07 46.3 h = 35 km MAG=4.7
	LmV	19	D = 16.2° Az = 332.9° (USCGS)
15.	LmH	20 35	LmH:19s 1.6/um LmV:19s 2.3/um
	LmV	35.0	
16.	LmV	01 47.7	LmH:20s 1.2/um LmV:20s 2.2/um
	LmH	50.5	
16.	iPg	03 45 58.5	Explosion?
	e	46 31	
	e	46 38	
16.	e	06 53 52	<u>Belgium</u> 50.45°N 4.25°E
	eSg	54 09	H = 06 51 35 (BCIS)
	e	54 20	D = 4.8°
16.	eP	07 20 00.5	<u>Nicobare Islands</u> 9.19°N 93.79°E
	e	20 05.5	H = 07 07 56.9 h = normal MAG=5.2
			D = 78.0° Az = 319.8° (USCGS)
			PV1:1.6s 23.8nm PV2:2.0s 66.6nm
16.	+iP	09 23 33.5	<u>Near Islands/Aleutian Is.</u>
	e	23 45	52.85°N 171.94°E
	LmV	54	H = 09 11 50.0 h = 25 km MAG=5.7

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Day	Phase	h m s	Remarks
cont.			
16.	LmH	09 59.8	D = 75.5° Az = 347.2° (USCGS)
			PV:1.6s 79.0nm
			LmH:19s 1.1/um LmV:24s 1.2/um
			MPV=5.6 MLH=5.2 MLV=5.2
16.	ePn	12 34 01.5	<u>Belgium</u> 50.45°N 4.25°E
	e(Pg)	34 18	H = 12 32 51 M=4.4 (BCIS)
	e	34 21	D = 4.8°
	eSn	34 52	LmH:6.5s 2.5/um
	i(Sg)	35 25	MLH=4.0
	LmH	35.6	e 34 36 1 35 08.0 1 35 13.0
16.	eP	18 56 36.5	<u>South of Crete</u> 33.24°N 26.24°E
	e	56 39	H = 18 52 00.8 h = normal MAG=5.0
	IPP	56 55	D = 20.5° Az = 332.6° (USCGS)
	IPPP	57 01.5	PV1:1.0s 13nm PV2:1.5s 40nm
	eS	19 00 22	MPV1=4.3 MPV2=4.5
	LmH	04	
16.	eIP	19 56 08	<u>Komandorsky Islands</u> 54.93°N 165.79°E
			H = 19 44 39.5 h = 15 km MAG=5.6 (USCGS)
			D = 72.7°
			PV:1.1s 26.6nm
			MPV=5.3
16.	eP	20 19 39.5	<u>Crete</u> 35.59°N 26.05°E
			H = 20 15 27.4 h = 35 km MAG=4.7
			D = 18.3° Az = 329.7° (USCGS)
16.	e	22 04 47	<u>Fiji Islands</u> 17.39°S 176.78°W
			H = 21 45 48.7 h = 359 km MAG=4.3
			D = 146.1° Az = 350.4° (USCGS)
16.	e	23 22 46	
17.	ePg	08 00 34	Explosion.
	i(Sg)	00 49.7	(D = ca. 1.2°)

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Doy	Phase	h m s	Remarks
17.	eP	08 42 36	<u>Greece-Albania Border Region</u>
	LmH	46.7	40.21°N 20.57°E
	LmV	48.5	H = 08 39 41.4 h = 34 km MAG=4.3
			D = 12.2° Az = 332.0° (USCGS)
17.	ePKIKP	18 08 42.5	<u>Fiji Islands</u> 20.82°S 178.49°W
-1PKHKP		08 47.0	H = 17 49 59.3 h = 543 km MAG=5.7 (USCGS)
ePKP2		08 54	D = 149.3° h = ca. 570 km
e(pPKP)		11 01	PV2:1.7s 145nm PV3:1.4s 57.0nm
			e 09 16 e 09 24
17.	iP	19 08 09.5	<u>Fox Islands/Aleutian Is.</u> 52.0°N 171.2°W
			H = 18 56 15.6 h = 46 km MAG=4.8 (USCGS)
			D = 79.5°
18.	eP	01 25 44.5	<u>Ryukyu Islands</u> 29.34°N 130.35°E
LmH		02 08.0	H = 01 13 15.8 h = normal MAG=5.3 (USCGS)
LmV		08.0	D = 83.8°
			LmH:17s 2.2/um LmV:16s 2.6/um
			MLH=5.7 MLV=5.8
18.	ePKIKP	06 46 13	<u>Fiji Islands</u> 18.63°S 177.75°W
1PKHKP		46 15.2	H = 06 27 12.7 h = 364 km MAG=5.3 (USCGS)
1PKP2		46 18.4	D = 146.9° (h = ca. 430 km)
e(pPKP)		47 55	
18.	e	18 47 18.5	
18.	eP	20 23 01.5	<u>Rumania</u> 45.99°N 26.88°E
			H = 20 20 24.3 h = 63 km MAG=4.4 (USCGS)
			D = 11.2°
18.	iP	21 24 08.0	<u>Crete</u> 34.98°N 23.73°E
			H = 21 20 00.3 h = 52 km MAG=4.9
			D = 18.0° Az = 334.3° (USCGS)
19.	e	07 02 23	<u>France</u> 45.8°N 6.7°E
e(Pg)		02 29	H = 07 00 32 (BCIS)
e(Sg)		03 42	D = 5.9°

January 1966

Moxa

Day	Phase	h m s	Remarks
19.	ePKHKP	14 04 44	<u>Fiji Islands</u> 20.68°S 178.48°W
			H = 13 46 02.2 h = 593 km MAG=4.7
			D = 149.1° Az = 347.5° (USCGS)
20.	eP	00 42 29.5	<u>Aegean Sea</u> 39.19°N 24.39°E
			H = 00 39 01.6 h = 25 km MAG=4.3
			D = 14.6° Az = 326.0° (USCGS)
20.	eP	01 56 57	<u>Honshu/Japan</u> 37.93°N 138.04°E
			H = 01 44 49.5 h = normal MAG=5.5
			D = 80.0° Az = 328.7° (USCGS)
			PV:1.8s 81.0nm
			MPV=5.6
20.	e	08 57 43	<u>Probably Ethiopia</u> 5.2°N 38.8°E
	e	57 50.5	H = 08 48 20 MAG=5 (ANUSSR)
			D = 50.7°
			P must be 25 s earlier than the first given onset.
20.	eP	14 57 48	<u>Near Islands/Aleutian Is.</u>
	e(pP)	57 57	52.98°N 171.78°E
			H = 14 46 06.2 h = 29 km MAG=5.4 (USCGS)
			D = 75.8° (h = 33 km)
			PV:1.0s 26.0nm
			MPV=5.3
20.	ePKP	15 21 28	<u>Samoa Islands</u> 15.32°S 172.96°W
			H = 15 01 53.4 h = normal MAG=5.3
			D = 144.6° Az = 355.0° (USCGS)
			PV:1.1s 17.8nm
20.	eP	16 44 15	<u>Fox Islands/Aleutian Is.</u> 52.36°N 169.57°W
			H = 16 32 19.9 h = 19 km MAG=5.3 (USCGS)
			D = 77.6°
			PV:1.0s 17.4nm
			MPV=5.1

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Day	Phase	h m s	Remarks
20.	eP	23 49 29	<u>Taiwan</u> 22.87°N 121.22°E H = 23 37 02.3 h = 64 km MAG=4.9 D = 84.2° Az = 322.9° (USCGS)
22.	eP	00 28(00)	<u>Turkey</u> 37.69°N 29.97°E 1 28 05 H = 00 23 42.7 h = 23 km MAG=5.0 (USCGS) e 28 10 D = 18.4° e(PP) 28 18 PV1:2.1s 91.5nm PV2:2.0s 89.1nm eS 31(28) PV3:2.2s 109nm eLg1(3.53) 33.4 SH:8.5s 1.3/ μm eLg2(3.32) 34.0 LmH:15s 3.6/ μm LmV:9s 2.2/ μm LmH 34.3 MLH=4.8 MLV=4.9 LmV 36.2 e 31 32 e 31 40
22.	1Pg	07 45 02.6	Explosion
	1Sg	45 16.5	D = ca. 1.1°
22.	eP	07 49 17.5	<u>Chiapas/Mexico</u> 17.44°N 94.12°W H = 07 36 49.3 h = 139 km MAG=4.9 (USCGS) D = 86.3° PV:1.1s 40.0nm MPV=5.2
22.	ePKIKP	11 19(40)	<u>Fiji Islands</u> 17.92°S 178.50°W
	1PKHKP	19 41.5	H = 11 01 05.3 h = 598 km MAG=5.3 (USCGS) D = 146.5° PV2:1.9s 140nm
22.	+1P	14 38 36.5	<u>South of Alaska</u> 55.97°N 153.69°W
	ipP	38 46.2	H = 14 27 07.9 h = normal MAG=5.8
	eS	48 05	D = 73.0° Az = 9.7° (USCGS); h = 36 km
	e(SeS)	48 40	PV1:1.8s 200nm PV2:1.4s 138nm
	eSS	53.0	SH:16s 5.1/ μm
	LmV	15 16.3	LmH:17s 10.2/ μm LmV:18s 14.3/ μm
	LmH	17	MPV=5.9 MSH=6.4 MLH=6.2 MLV=6.4 e 41 00 e 41 13

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Moxa

Day	Phase	h m s	Remarks
22.	ePKHKP	19 56 21	<u>Tonga Islands</u> 21.04°S 174.23°W H = 19 36 32.4 h = normal MAG=5.0 D = 150.1° Az = 352.5° (USCGS) PV:1.5s 45nm
23.	eS	01 20.8	<u>Oaxaca/Mexico</u> 16.32°N 94.88°W
	LmH	52	H = 00 57 21.8 h = 32 km MAG=4.6 (USCGS)
	LmV	52	D = 87.6° LmH:15s 1.1/ μm LmV:15s 1.0/ μm MLH=5.4 MLV=5.4
23.	ePn	01 32 37.5	<u>Northern Italy</u> 45.93°N 12.24°E
	1Pg	32 58.0	H = 01 31 28.9 h = normal MAG=3.8
	1Sn	33 31.5	D = 4.7° Az = 355.2° (USCGS)
	eSg	33(58)	e 32 42 1 33 04.0 1 33 16.0
	iLg1	34 09	1(Sb1) 33 44.5 1(Sb2) 33 49.8 1 34 00.6 1 34 04.0
23.	eP	02 08 35.5	<u>New Mexico</u> 36.96°N 106.90°W
	LmH	44.0	H = 01 56 38.0 h = 10 km MAG=5.5 (USCGS)
	LmV	44.0	D = 77.2° PV:1.5s 50.0nm LmV:15s 0.9/ μm MPV=5.4 MLV=5.2
23.	LmH	12 01.5	<u>Probably Honshu/Japan</u> (USCGS)
23.	e	14 50 10.5	
23.	eP	23 21 35.5	<u>Near East Coast of Honshu/Japan</u> 35.94°N 140.45°E H = 23 09 17.9 h = 70 km MAG=4.8 (USCGS) D = 82.7°
24.	-eP	02 23 37.0	<u>Afghanistan</u> 32.70°N 67.65°E
	e	23 41	H = 02 15 27.7 h = 33 km MAG=5.2
	ePP	25 27	D = 44.4° Az = 311.0° (USCGS)
	LmH	44.5	PV:1.4s 33.4nm
	LmV	(48)	MPV=5.1

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Day	Phase	h m s	Remarks
24.	+eP	07 31 45	<u>West Pakistan</u> 29.94°N 69.68°E
	e	32 07	H = 07 23 07.6 h = 12 km MAG=5.8
	ePP	33 36	D = 47.5° Az = 312.9° (USCGS)
	eS	38 39	PV:1.6s 94.7nm
	e	39 00	LmH:14s 2.9/ μm LmV:14s 3.5/ μm
	LmH	56.5	MPV=5.6 MLH=5.4 MLV=5.5
	LmV	56.7	
24.	eP	15 41 27	<u>West Pakistan</u> 29.89°N 69.77°E
	LmH	16(08)	H = 15 32 48.1 h = 4 km MAG=5.3
	LmV	(08)	D = 47.6° Az = 312.9° (USCGS)
			PV:1.8s 37.5nm
			MPV=5.2
25.	e	04 10 13.5	
25.	e(P)	06 01 08.5	
	e	01 52	
25.	LmH	18(55)	
26.	e	12 39 17.5	
26.	eP	13 33 41.5	<u>Greece</u> 38.95°N 21.44°E
			H = 13 30 27.9 h = 45 km MAG=4.4
			D = 13.6° Az = 332.5° (USCGS)
27.	eP	12 12 27.5	<u>Japan</u> 40.16°N 140.48°E
			H = 12 00 29.1 h = 65 km MAG=5.1 (USCGS)
			D = 79.1°
28.	e(Pg)	02 48 57.5	
	e	49(12)	
28.	ePKIKP	04 55 21.5	<u>Fiji Islands</u> 17.55°S 176.94°E
	1PKHKP	55 22.5	H = 04 36 46.1 h = 558 km MAG=5.6
	1PKP2	55 24.5	D = 145.0° Az = 343.7° (USCGS);
	epPKP	57 35	h = ca. 590 km
	e	57 42	PV1:0.7s 21.8nm PV2:1.5s 165nm

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Day	Phase	h m s	Remarks
28.	e	06 01(44)	<u>New Hebrides Islands</u> 17.1°S 168.8°E
	e	01 47	H = 05 42 18 MAG=6 $\frac{1}{4}$
	i(PKHKP)	01 49.6	D = 141.8° (ANUSSR)
	-i(PKIKP)	01 52.0	PV4:2.0s 133/ μm (The earlier onsets are clear but much smaller.)
	e	02(10)	LmV:20s 10.4/ μm LmH:20s 8.7/ μm
	e	04 29	MLH=6.5 MLV=6.6
	LmV	07 08.5	
	LmH	08.6	
28.	eP	09 00 08	<u>Tadzhik-Sinkiang Border Region</u>
	e	00 11.5	39.31°N 73.07°E
	ePP	01 51.5	H = 08 52 02.2 h = 20 km MAG=5.4
	ePcP	01 55.5	D = 43.7° Az = 306.0° (USCGS)
	e(PPPP)	02 41	PV:1.3s 34.8nm
	LmH	19.8	LmH:14s 1.1/ μm LmV:12s 1.2/ μm
	LmV	22.7	MPV=5.1 MLH=4.9 MLV=5.1
28.	ePKP	09 46 13.5	<u>Fiji Islands</u> 17.89°S 178.52°W
			H = 09 27 34.3 h = 579 km MAG=5.4
			D = 146.3° Az = 348.3° (USCGS)
			PV:1.1s 31.0nm
28.	e	17 54 19	<u>Switzerland</u> 46.6°N 7.6°E
	i	54 50.8	H = 17 52 49 (BCIS)
	eISg	55 26.5	D = 4.8°
	i	55 33	e 54 22 e 54 29
28.	-eP	22 49 36.5	<u>Kamchatka</u> 51.56°N 157.03°E
	e	49 42	H = 22 38 12.2 h = 107 km MAG=5.6 (USCGS)
	eS	59 00	D = 74.1°
	LmH	23(27)	PV:1.6s 63.2nm
	LmV	(28)	MPV=5.2
29.	eP	08 04 05	<u>Kurile Islands</u> 45.79°N 151.51°E
	epP	04 17.5	H = 07 52 08.8 h = normal MAG=5.1 (USCGS)
			D = 78.0° h = 47 km
			PV2:1.5s 35nm

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Day	Phase	h m s	Remarks
29.	1P e	14 53 05.2 53 18.5	<u>Mexico-Guatemala Border Region</u> 16.58°N 91.24°W H = 14 40 26.5 h = 7 km MAG=5.3 D = 85.2° Az = 38.5° (USCGS) PV2:2.0s 66.6nm
29.	eP	16 21(17)	<u>Near Coast of Northern California</u> 41.51°N 127.11°W H = 16 09 01.4 h = normal MAG=4.9 D = 81.4° Az = 25.1° (USCGS)
30.	eP e	06 50(20) 50 23	<u>Greece</u> 38.78°N 21.67°E H = 06 47 02.8 h = 47 km MAG=4.4 D = 13.8° Az = 332.3° (USCGS)
30.	e(PKHKP) i e	11 24 40.5 24 47 25 30	<u>Loyalty Islands</u> 22.12°S 170.03°E H = 11 05 02.3 h = 46 km MAG=5.3 D = 146.9° Az = 334.6° (USCGS) PV:1.5s 45.0nm
31.	eP	02 46 01.5	<u>China</u> 27.90°N 99.58°E H = 02 35 05.8 h = normal MAG=5.6 D = 67.7° Az = 316.6° (USCGS) PV:1.3s 18.6nm MPV=5.1
31.	ePKP	06 27 41	<u>Loyalty Islands</u> 21.90°S 169.99°E H = 06 08 03.3 h = normal (USCGS) D = 146.6°
31.	eP ePP LmH LmV	14 15 09.5 19 16.5 15 00 00	<u>Argentina</u> 24.76°S 64.42°W H = 14 01 25.4 h = 43 km MAG=5.8 D = 100.5° Az = 38.9° (USCGS)
31.	eP e	19 32 16 32 30	<u>Fox Islands/Aleutian Is.</u> 51.53°N 170.75°W H = 19 20 18.6 h = normal MAG=4.6 D = 78.2° Az = 358.5° (USCGS)

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Day	Phase	h m s	Remarks
2.	e1Pn e iPg e i(Sn) i(Sg)	02 26 29.5 26 45.5 26 48.5 26 52 27 18.0 27 42.0	<u>Northern Italy</u> 46.17°N 12.81°E H = 02 25 22.0 h = normal D = 4.5° Az = 350.3° (USCGS) PgV:1.0s 48.2nm SgV:1.3s 100nm SgH:1.2s 102nm i 27 44.0 i 27 49.5
2.	ePg eSg	02 33 37.5 34 33	<u>Probably Northern Italy</u> (aftershock to the preceding earthquake) SgV:1.3s 19nm SgH:(1.3s 20nm)
2.	ePKP +1 +1 i e LmV	05 53 42 53 47.5 53 54.5 54 10.0 54 20 07 10	<u>Tonga Islands</u> 17.78°S 173.15°W H = 05 34 01.8 h = normal MAG=5.2 D = 147.0° Az = 354.4° (USCGS) PV1:2.0s 100nm PV2:1.6s 96nm PV3:2.0s 213nm e 54 28 e 54 38 e 55 10 e 55 36 e 56 24
2.	eP ePoP	09 28 39 30 13.5	<u>West Pakistan</u> 33.92°N 73.03°E H = 09 20 07.5 h = 26 km MAG=5.3 D = 47.0° Az = 310.2° (USCGS)
2.	-ePKHKP	17 29 59	<u>Fiji Islands</u> 21.58°S 176.70°W H = 17 10 34.5 h = 231 km D = 150.3° Az = 349.3° (USCGS) PV:1.4s 105nm
3.	+ePKHKP ePKP2 ei	02 30 51 30 58 31 13.3	<u>Fiji Islands</u> 20.93°S 178.33°W H = 02 11 57.5 h = 489 km MAG=4.6 (USCGS) D = 149.3° PV1:1.8s 37.5nm
3.	+eP e(pP) e(sP) +1PP i i	06 01 53.5 02 35.5 02 55 06 15.2 06 28 06 49	<u>Northern Celebes</u> 0.13°N 123.46°E H = 05 48 06.1 h = 131 km MAG=5.9 D = 103.6° Az = 322.6° (USCGS); (h = 170 km) PV:1.6s 40.0nm PPV:2.2s 143nm MPV=5.9 (MPPV=6.2)

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Moxa

Day	Phase	h m s	Remarks
3.	-eIP e(pP)	12 11 21.5 11 52	<u>Philippine Islands</u> 16.60°N 119.97°E H = 11 58 35.3 h = 69 km MAG=5.8 D = 88.5° Az = 322.8° (USCGS); (h = 120 km) PV:1.0s 43.5nm MPV=5.7 (for h = 120 km MPV=5.4)
3.	eP e	13 26 18.5 26 54	<u>Sicily</u> 38.56°N 14.84°E H = 13 23 29.3 h = 254 km MAG=4.4 D = 12.3° Az = 350.3° (USCGS) PV:1.0s 21.7nm
3.	eP e LmH	17 23 46 23 49 18 05	<u>Taiwan</u> 23.99°N 121.85°E H = 17 11 17.2 h = 24 km MAG=5.2 D = 83.7° Az = 323.1° (USCGS)
3.	eP LmH	17 33 32.5 18 15	<u>Taiwan</u> 24.35°N 121.75°E H = 17 21 10.0 h = 55 km MAG=4.9 D = 83.3° Az = 323.0° (USCGS) LmH:17s 1.8/ μ m MLH=5.5
3.	eSg	17 42 02	<u>Black Forest/GFR</u> 47.9°N 7.8°E H = 17 40 04 (BCIS) D = 3.7°
3.	eP e LmH LmV	18 10 08 10 22 18 51.5 52.5	<u>Taiwan</u> 24.13°N 122.03°E H = 17 57 42.2 h = 38 km MAG=4.8 D = 83.6° Az = 323.1° (USCGS) LmH:18s 1.6/ μ m LmV:16s 2.1/ μ m MLH=5.4 MLV=5.6
4.	eP	02 59 29	
4.	-ePKP +1	04 22 20 22 28.0	<u>Tonga Islands</u> 15.23°S 173.38°W H = 04 02 45.8 h = normal MAG=5.0 (USCGS) D = 144.3° PV:2.6s 125nm

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Day	Phase	h m s	Remarks
4.	e(PKIKP) e e e	05 24 14.5 24 17.5 25 08 25 44	<u>Tonga Islands</u> 21.43°S 174.13°W H = 05 04 24.1 h = 26 km MAG=4.6 (USCGS) D = 150.6° PV1:1.2s 18nm PV2:1.2s 23nm
4.	eP -ePP e LmH LmV	08 42 18.5 42 26 42 33 42 46.3 42 54 51.2 51.2	<u>Crete</u> 34.35°N 23.95°E H = 08 38 01.1 h = 21 km MAG=4.8 D = 18.6° Az = 334.8° (USCGS) LmH:14s 2.2/ μ m LmV:14s 2.2/ μ m MLH=4.6 MLV=4.7 e 43 02 e 43 15
4.	eP e	10 10 50 10 59	
4.	ePKHP ePKIP e(pPKHP) i(pPKIP) ePP +1SKP i(SKP2) ePS eSS eSPSPS LmH LmV	10 58 15 58 19 59 07 59 10.5 11 01 21 01 39.0 01 52.5 12.0 19.5 20.4 (46) (46)	<u>New Hebrides Islands</u> 15.88°S 167.91°E H = 10 39 12.2 h = 190 km MAG=6.0 D = 140.4° Az = 336.3° (USCGS); (h = ca. 200 km) PPV:2.7s 172nm SKPV:2.2s 272nm (SKP2)V:2.3s 150nm MPV=5.7 e 58 22 e 58 39 (V:2.0s 74nm) 1 59 13.8 -1 59 32.5 (V:1.2s 109nm) 1 59 45.0 e 01 03 e 01 49 e 02 08 e 03 00
4.	i(P)	14 57 17.0	
4.	ePKHP ePKP2 e	15 56 21 56 28 56 40	<u>Tonga Islands</u> 21.29°S 174.34°W H = 15 36 30.8 h = 27 km MAG=5.0 D = 150.3° Az = 352.3° (USCGS) PV:2.2s 91.0nm
4.	e	21 04 15.5	

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Day	Phase	h m s	Remarks
5.	-eP	02 04 57	<u>Greece</u> 39.21°N 22.05°E
	i	04 59	H = 02 01 48.3 h = 38 km MAG=5.8 (USCGS)
Pmax		05 04	D = 13.6°
iS		07 26	PV:1.9s 66nm PVmax:1.3s 256nm
iSS		07 40	LmH:14s 129/ μm LmV:14s 163/ μm
iSSS		07 54	MLH=6.1 MLV=6.4
eLi(3.73)		08 34	+1 05 05.5 -1 05 09.5 -1 05 22.7
eLg2(3.34)		09 20	+1 05 36.0 1 07 40 1 07 55
iLR		10 40	
LmH		10.8	
LmV		10.8	
5.	eP	03 01 09	<u>Greece</u> 39.1°N 21.6°E
e		01 21.5	H = 02 57 59 h = normal MAG=ca.5
LmH		07.0	D = 13.5° (ANUSSR)
LmV		07.1	LmH:13s 5.9/ μm LmV:12s 4.7/ μm
			MLH=4.8 MLV=4.7
5.	-IP	14 36 14.0	<u>Near East Coast of Kamchatka</u>
			52.80°N 158.76°E
			H = 14 24 45.0 h = 44 km MAG=5.2 (USCGS)
			D = 73.3°
			PV:1.2s 31.8nm
			MPV=5.3
5.	-eP1	15 23 49	<u>China</u> 26.09°N 103.14°E
-IP2		23 53.0	H = 15 12 29.1 h = 15 km MAG=6.1 (USCGS)
ePP		26 25	D = 71.2°
eS		33 07	PV1:2.4s 182nm PV2:1.8s 370nm
e(ScS)		33 44	SSH:30s 2.4/ μm SaH:38s 6.8/ μm
eSS		37 49	LmH:22s 26.6/ μm LmV:17s 14.3/ μm
i(SSS)		40 55	MPV1=5.8 MPV2=6.2 MLH=6.5 MLV=6.3
iSa(4.57)		41 20	i 23 59.0 e 24 31 i 24 43.5
LQ		43	e(SSS) 40 55
LmH		52.2	
LmV		16 00.8	
5.	+eP	16 27 33	<u>Kurile Islands</u> 50.21°N 155.08°E
-IP		27 34	H = 16 16 00.8 h = 98 km MAG=5.8 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
5.	epP	16 28 00	D = 74.7° h = 108 km
eisP		28 12	PV2:2.0s 785nm
e		28 27.5	MPV2=6.2
6.	eP	09 24 41	<u>China</u> 26.24°N 103.13°E
			H = 09 13 19.6 h = 5 km MAG=5.4
			D = 71.1° Az = 317.7° (USCGS)
6.	e	13 28 01.5	<u>Greece</u> 39.01°N 21.71°E
			H = 13 24 38.3 h = 36 km MAG=4.2
			D = 13.6° Az = 331.8° (USCGS)
			The first onset of P must be 10 s earlier.
6.	e	17 59 31	
6.	+IP	23 39 02.5	<u>South of Alaska</u> 60.2°N 151.8°W
+I		39 06.8	H = 23 28 00 h = normal
e		39 30	D = 68.7° (ANUSSR)
			PV1:1.3s 70.0nm PV2:1.5s 50.0nm
			PV3:1.6s 52.6nm
			MPV1=5.7
7.	+eP1	04 34 46	<u>West Pakistan</u> 29.83°N 69.68°E
+IP2		34 47.5	H = 04 26 13.9 h = normal MAG=6.0
-IP3		34 50.5	D = 47.6° Az = 313.0° (USCGS)
IP4		34 55.0	PV2:1.6s 79.0nm PV3:1.8s 306nm
IP5		35 00.3	PV4:1.3s 487nm PV5:2.0s 1050nm
ePoP		36 20	SH4:6.0s 2.8/ μm
ePP		36 40	LmH:14s 28/ μm LmV:15s 36/ μm
iS(4)		41 48	MPV2=5.6 MPV3=6.1 MPV4=6.4 MPV5=6.6
eSS		45 14	MSH4=6.5 MLH=6.4 MLV=6.5
LmH		05 01.3	i 35 11.5 (V:2.0s 890nm)
LmV		01.3	i 35 30.0 (V:1.8s 420nm)
			i 36 09 i 41 58
			Multiple P. Successive shocks in the same focus?

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Day	Phase	h m s	Remarks
7.	eP1	05 30 22	<u>West Pakistan</u> 30.01°N 69.91°E
	+IP2	30 24.5	H = 05 21 44.6 h = 10 km MAG=5.4
	i	30 28.0	D = 47.6° Az = 312.8° (USCGS)
	-i	30 30.0	PV2:1.8s 68.7nm
			MPV2=5.4
			Multiple P.
7.	+IP	05 38 51.3	<u>West Pakistan</u> 30.00°N 69.57°E
	e	38 54.5	H = 05 30 19.2 h = 48 km MAG=5.3
	e	39 13	D = 47.4° Az = 312.9° (USCGS)
			PV1:2.0s 52.6nm PV2:1.4s 48.5nm
			MPV1=5.3 MPV2=5.4
			Multiple P.
7.	eP	05 48 05	
	e	48 08	
7.	eP	08 46 50	<u>West Pakistan</u> 29.98°N 69.93°E
			H = 08 38 11.3 h = 15 km MAG=4.8
			D = 47.7° Az = 312.9° (USCGS)
7.	e	09 33 05	<u>Yugoslavia</u> 45.0°N 17.3°E
	e	33 22	H = 09 29 43 (BCIS)
	e(Sg)	33 26	D = 6.8°
7.	+IP1	23 15 10.5	<u>West Pakistan</u> 30.24°N 69.84°E
	+IP2	15 12.4	H = 23 06 34.5 h = 10 km MAG=5.8
	-i	15 19.5	D = 47.4° Az = 312.7° (USCGS)
	-i	15 31.7	PV2:1.7s 340nm PV3:1.4s 248nm
	eS	22 06	LmH:15s 24.1/ μm LmV:13s 21.7/ μm
	eSS	25 29	MPV2=6.2 MLH=6.3 MLV=6.3
	LmH	38.7	e 22 27 e 26 06 1 27 00
	LmV	41.5	Multiple P.
8.	eSn	01 19 27	<u>Apennines/Italy</u> 44.2°N 10.0°E
	eSg	20 05	H = 01 16 46 (BCIS)
			D = 6.2°

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Day	Phase	h m s	Remarks
8.	-iPKHP	10 20 59.0	<u>Fiji Islands</u> 21.17°S 178.52°W
	-IPKP2	21 06.2	H = 10 02 09.0 h = 525 km MAG=5.1 (USCGS)
	i		D = 149.5°
	ei		PV1:1.5s 55.0nm PV2:1.2s 41.0nm
8.	eP	13 20 36	<u>Rhodos/Mediterranean Sea</u> 36.3°N 28.2°E
	i	20 44.5	H = 13 16 21.8 h = 80 km MAG=5.4 (USCGS)
	ei	20 47.5	D = 18.7°
			PV:1.8s 175nm
8.	e	20 11 24	<u>Greece-Bulgaria Border Region</u>
	e	11 42	41.39°N 25.10°E
	LmH	15.8	H = 20 08 06.2 h = normal MAG=4.9 (USCGS)
	LmV	17	D = 13.2°
			The first onset of P must be 10 s earlier than the first given onset.
9.	LmH	01 49.5	
	LmV	51.5	
9.	eSKS	05 05.7	<u>South Sandwich Islands Region</u>
	eS	07 28	56.75°S 25.72°W
	iPS	09 11	H = 04 40 28.4 h = 27 km MAG=5.9 (USCGS)
	e	14.8	D = 111.3°
	iSS	15 38	
	eSS	19	
	LQ	26	
	LmH	44.5	
9.	eP	08 30 54	<u>West Pakistan</u> 29.82°N 69.81°E
	e	30 57.5	H = 08 22 17.9 h = 29 km MAG=5.2
			D = 47.7° Az = 313.0° (USCGS)
			PV1:2.0s 59.2nm PV2:2.0s 67.6nm
			MPV1=5.4
9.	ePKP	14 17(06)	<u>Easter Island Cordillera</u>
	e	17 16	35.32°S 106.03°W
	e	20 08	H = 13 57 48.7 h = normal MAG=5.4
	LmH	15 02	D = 133.3° Az = 50.8° (USCGS)

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Moxa

Day	Phase	h m s	Remarks
9.	eP	15 27 11	<u>Near Coast of Peru</u> 15.20° S 75.19° W
	e	27 22	H = 15 13 30.1 h = 54 km MAG=5.5 (USCGS)
	LmH	16 09.2	D = 99.5°
	LmV	09.2	LmH:20s 0.8/ μ m LmV:20s 1.6/ μ m
			MLH=5.3 MLV=5.5
9.	eP	23 45 38.5	<u>South of Honshu/Japan</u> 32.59° N 141.60° E
			H = 23 33 00.6 h = 50 km MAG=4.7 (USCGS)
			D = 86.3°
10.	ePKP2	01 44 44	<u>Kermadec Islands</u> 29.86° S 178.54° W
	e	44 49	H = 01 24 15.1 h = normal MAG=4.7 (USCGS)
	e	45 19	D = 157.8°
	e	45 42	
10.	eP	05 42 00	<u>South of Honshu/Japan</u> 31.08° N 141.63° E
	e	42 29	H = 05 29 13.3 h = normal MAG=5.3 (USCGS)
	e	42 40	D = 87.6°
	ePP	45 24	LmH:15s 2.0/ μ m LmV:14s 1.7/ μ m
	LmH	06 26.8	MLH=5.6 MLV=5.6
	LmV	31.0	
10.	e	06 12 06	
10.	e	09 47 40.5	
10.	e	12 50 08.5	
10.	eP	12 50 17	<u>Kodiak Islands</u> 56.65° N 153.33° W
	e	50 26	H = 12 38 49.1 h = 12 km MAG=4.5 (USCGS)
			D = 72.2°
			PV:1.1s 26.7nm
			MPV=5.3
10.	eP	13 25(02)	<u>Greece</u> 39.06° N 21.81° E
	e	25 17	H = 13 21 45.5 h = normal MAG=4.5
			D = 13.6° Az = 331.5° (USCGS)

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Day	Phase	h m s	Remarks
10.	eP1	14 34 46	<u>Mariana Islands</u> 20.80° N 146.28° E
	eP2	34 50	H = 14 21 10.9 h = 43 km MAG=6.2
	iP3	35 02.0	D = 98.4° Az = 332.8° (USCGS)
	eP4	35 07	PV2:1.8s 50nm PV3:1.2s 45.5nm
	iPP1	38 47.5	PV4:8s 0.7/ μ m PPV1:2.2s 155nm
	i(PP2)	38 51.5	PPV3:2.6s 278nm PPV4:2.3s 320nm
	iPP3	39 01.0	SKSH3:8s 1.7/ μ m SKSH4:10.5s 1.5/ μ m
	iPP4	39 08.5	SH3:8s 1.0/ μ m SH4:16s 2.6/ μ m
	ePPP	40 59	SPV1:11s 1.4/ μ m SPV4:14s 3.1/ μ m
	eSKS1	45 26	SPH4:16s 3.0/ μ m SSH4:(16s 6.3/ μ m)
	eSKS3	45 40	LmH:24s 15.2/ μ m LmV:18.5s 9.9/ μ m
	eSKS4	45 48	MPV2=5.7 MPV3=6.0 MPV4=6.3 MPPV1=6.1
	eS1	46 08	MPPV3=6.2 MPPV4=6.4 MLH=6.4 MLV=6.3
	eS3	46 22	Multiple onsets of body waves. Successive
	eS4	46 29	shocks in the same focus?
	eSP1	47 36	
	eSP4	47 56	
	ePKP	51 14	
	eSS1	52 52	
	iSS4	53 10	
	LmH	15 12.7	
	LmV	22.7	
10.	-ePKP	15 17 52	<u>Tonga Islands</u> 19.36° S 173.09° W
	+e	18 07	H = 14 58 04.2 h = 10 km MAG=5.1
	e	18 13	D = 148.6° Az = 354.3° (USCGS)
	e	18 42	
10.	+iP	20 25 06.5	<u>Kurile Islands</u> 47.18° N 150.76° E
	+e	25 11.5	H = 20 13 33.0 h = 162 km MAG=5.3 (USCGS)
	-e(PoP)	25 17	D = 76.5°
	e	25 26	PV1:2.0s 81.5nm PV2:1.4s 33.3nm
	i	25 50.0	PV3:1.4s 23.8nm
			MPV=5.1
11.	eP	06 53 01.5	<u>Greece</u> 39.9° N 22.8° E
	LmH	57.3	H = 06 49 49 h = normal
	LmV	58.6	D = 13.3° (ANUSSR)
11.	e	07 19 21	

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Moxa

Day	Phase	h m s	Remarks
11.	e	13 29 27	Probably explosion.
	e	29 33	
	e	29 40	
12.	i(Pg)	11 01 38.0	Explosion.
	i(Sg)	01 57.5	D = ca. 1.5°
12.	ePKP	11 58 46.5	<u>Tonga Islands</u> 18.32°S 174.79°W
	ei	58 49	H = 11 39 25.5 h = 190 km MAG=5.6 (USCGS)
	i	58 57	D = 147.3° (h = ca. 180 km)
	e(pPKP)	59 35	PV2:1.6s 94.7nm PV3:1.2s 36.4nm
	ei	12 00 37	
12.	i	12 07 11.0	
12.	eP	13 39 35	<u>Greece</u> 38.94°N 21.39°E
	e	39 50	H = 13 36 20.2 h = normal MAG=4.5
	e	40 19.5	D = 13.6° AZ = 332.6° (USCGS)
	e	43 13	LmH:12.5s 1.85/um LmV:12s 2.3/um
	e	44 41	MLH=4.3 MLV=4.6
12.	eP	16 42 04.5	<u>Afghanistan-USSR Border Region</u> 36.56°N 71.50°E
			H = 16 34 11.3 h = 188 km MAG=4.9
			D = 44.4° AZ = 308.1° (USCGS)
			PV:1.0s 21.8nm
			MPV=4.6
12.	e(Sn)	23 44 42	<u>Switzerland</u> 46.8°N 8.9°E
	e	45 03.5	H = 23 42 46 (BCIS)
			D = 4.5°
13.	+iP	05 05 46.3	<u>Eastern Kazakh SSR</u> 49.82°N 78.13°E
+iPn		07 19.0	H = 04 57 57.7 h = 0 km MAG=6.3 (USCGS)
-iPP		07 22.5	D = 41.3°
eLg2		20.0	PV:0.8s 847nm
LmV		24.0	LmV:9s 0.9/um MPV=6.7 MLV=5.0 Underground explosion.

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Moxa

Day	Phase	h m s	Remarks
13.	eP	10 55 59	<u>China</u> 26.13°N 103.23°E
	e	56 03	H = 10 44 41.0 h = normal MAG=5.7 (USCGS)
	e	56 24	D = 71.1°
	eS	11 05 16	PV2:2.0s 178nm SH:11s 1.4/um
	eScS	06(00)	LmH:20s 6.7/um LmV:17s 4.0/um
	eSS	09 56	MPV2=5.8 MSH=6.0 MLH=5.9 MLV=5.8
	eSSS	13 36	
	LmH	24.3	
	LmV	33.0	
13.	eP	13 28 49	<u>Unimak Island</u> 53.77°N 163.32°W
			H = 13 17 00.5 h = 10 km MAG=4.3 (USCGS)
			D = 75.7°
13.	eP	19 18 21.5	<u>West Pakistan</u> 29.84°N 69.67°E
	e	18 25.5	H = 19 09 47.4 h = normal MAG=5.1
	e	18 48	D = 47.6° AZ = 313.0° (USCGS)
	LmH	43.2	PV1:1.5s 25.0nm PV2:1.6s 36.8nm
	LmV	43.3	LmH:14s 1.2/um LmV:14s 1.3/um
			MPV1=5.1 MLH=5.0 MLV=5.1
14.	eP	05 49 43	<u>West Pakistan</u> 29.29°N 69.47°E
	e	49 47	H = 05 41 06.5 h = 44 km MAG=4.8
			D = 47.8° AZ = 313.3° (USCGS)
14.	e(PKP)	06 32 34	<u>South of Australia</u> 50.68°S 139.69°E
			H = 06 12 48.4 h = normal MAG=5.0
			D = 147.6° AZ = 290.5° (USCGS)
14.	eP	18 02 13	<u>Eastern Mediterranean Sea</u>
-1		02 15.0	34.99°N 27.19°E
	LmH	10.2	H = 17 57 50.0 h = 46 km MAG=5.0 (USCGS)
	LmV	11.2	D = 19.0°
			PV2:1.1s 84.5nm
			LmH:12s 1.3/um LmV:12s 1.7/um
			MPV2=4.9 MLH=4.5 MLV=4.7
14.	eP	20 20 15	<u>Greece</u> 38.95°N 21.91°E
	e	20 21.5	H = 20 17 00.5 h = 73 km MAG=4.3

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Day	Phase	h m s	Remarks
cont.			
14.	LmH	20 26.0	D = 13.8° Az = 331.5° (USCGS)
	LmV	26.1	LmH:12s 1.2/ μ m LmV:11s 1.6/ μ m MLH=4.1 MLV=4.5
15.	eP	01 40 49.5	<u>Ryukyu Islands</u> 27.87°N 128.85°E H = 01 28 16.9 h = normal MAG=4.7 (USCGS) D = 84.2°
15.	ePKKP	10 16 23	<u>Fiji Islands</u> 22.68°S 176.22°W
	ePKP2	16 31	H = 09 56 29.8 h = normal MAG=5.0 (USCGS)
	e(pPKP)	16 40	D = 151.4° PV2:1.0s 30.4nm
15.	e	22 53 16	
15.	e	22 55 23	<u>Probably Fiji Islands</u> 26.48°S 178.23°E
	e	55 38	H = 22 34 05.4 h = 593 km MAG=5.6 (USCGS) D = 153.7°
16.	-iPKP	03 37 54	<u>New Hebrides Islands</u> 17.68°S 167.95°E
	e	37 58.5	H = 03 18 27.2 h = 31 km MAG=6.5 (USCGS)
	ePP	41 06	D = 142.0°
+iSKP		41 32	PV1:2.5s 160nm PV2:2.2s 246nm
	eSKKS	47 53	PPV:7.3s 2.7/ μ m SKKSH:9s 3.6/ μ m
	iPPS	53 26	LmH:24s 13.5/ μ m LmV:24s 15/ μ m
	eSS	59 40	MPPV=6.7 MLH=6.6 MLV=6.7
	LmH	04 37.5	e 38 01.5 e 46 00
	LmV	37.5	
16.	eP	11 05 43	<u>Southern Algeria</u>
	e	05 48.5	H = 11 00 00 (UPP)
	e(PP)	06 19	D = 26.7° PV:1.2s 34nm MPV=4.9 Probably underground explosion.

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Day	Phase	h m s	Remarks
16.	eP	12 10 09	<u>Fox Islands/Aleutian Is.</u>
	e(pP)	10 20	52.41°N 169.57°W
			H = 11 58 14.2 h = 47 km MAG=4.8 (USCGS)
			D = 77.4° (h = 42 km)
16.	ePKP	23 56 57	<u>Tonga Islands</u> 18.13°S 173.80°W
	e	57 04	H = 23 37 04.6 h = normal MAG=5.2
	e	57 23	D = 147.3° Az = 353.6° (USCGS)
17.	eP	12 01 51	<u>Mid-Indian Rise</u> 32.22°S 78.87°E
	e	05 15	H = 11 48 00.8 h = normal MAG=6.4
	ePP	06 04	D = 101.6° Az = 323.2° (USCGS)
	eSKS	12 32	PV1:2.0s 44.4nm PV2:2.4s 91nm
	eS	13 32	LmH:16s 3.8/ μ m LmV:16s 4.8/ μ m
	ePS	15 06	MPV=5.8 MLH=6.0 MLV=6.1
	e	16 24	
	ePKKP	17(36)	
	eSS	20(40)	
	eSSS	24(40)	
	LmH	13 02.2	
	LmV	04.5	
17.	e(Pg)	12 18 45	<u>Northern Italy</u> 44.9°N 10.9°E
	e(Sn)	19 23	H = 12 16 57 (BCIS)
	eSg	20 05	D = 5.9°
	e	20 12.5	
	e	20 18	
17.	ePKKP	18 39 24.5	<u>South of Fiji Islands</u> 23.47°S 179.87°W
	iPKP2	39 36.0	H = 18 20 32.4 h = 548 km MAG=5.6 (USCGS)
	iPKP	41 38	D = 151.7° (h = 587 km)
18.	+iP	00 40 08.0	<u>East Coast of Honshu/Japan</u>
			36.70°N 140.43°E
			H = 00 27 53.6 h = 65 km MAG=5.1
			D = 82.1° Az = 329.9° (USCGS)
			PV:0.9s 21.8nm
			MPV=5.1

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Day	Phase	h m s	Remarks
18.	iP	01 12 08.0	
18.	eIP	03 56 35	<u>China</u> 26.31°N 103.02°E H = 03 45 15.4 h = 35 km MAG=5.0 D = 71.0° Az = 317.7° (USCGS)
18.	eP	07 12 41	<u>Mindanao/Philippine Islands</u>
	ePP	16 42	6.93°N 124.03°E
	eSS	31.0	H = 06 59 05.0 h = 57 km MAG=5.5 (USCGS)
	LmH	54.7	D = 98.6°
	LmV	08 04.7	
18.	eP	19 14 18	<u>Hokkaido/Japan</u> 44.30°N 143.13°E
	e	15 12.5	H = 19 02 51.5 h = 225 km MAG=5.2 D = 76.5° Az = 330.6° (USCGS); h = 230 km PV:1.0s 15.4nm MPV=4.7
19.	eP	12 58 53	<u>Hindu Kush</u> 35.29°N 70.86°E
	epP	59 07	H = 12 50 42.1 h = 59 km MAG=5.1
	esP	59 15.5	D = 44.8° Az = 309.0° (USCGS);
	e	13 01 01	h = 63 km PV1:1.4s 24nm PV2:2.0s 37.0nm MPV=5.0
20.	iP	06 09 38.5	<u>Near East Coast of Kamchatka</u>
	epP	09 51.5	53.09°N 159.75°E
	esP	09 56	H = 05 58 09.6 h = 44 km MAG=4.9 D = 73.2° Az = 339.4° (USCGS); h = 45 km PV:1.0s 19.0nm MPV=5.2
20.	ePKP	06 30 31	<u>Fiji Islands</u> 17.94°S 178.53°W H = 06 11 54.4 h = 583 km D = 146.4° Az = 348.3° (USCGS) PV:1.2s 12.8nm

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Day	Phase	h m s	Remarks
20.	+eP	18 27 40	<u>Kurile Islands</u> 47.97°N 154.98°E
	epP	27 50.5	H = 18 15 50.0 h = normal MAG=5.1 (USCGS)
	esP	27 54	D = 77.0° h = 40 km PV:1.1s 40.0nm MPV=5.5
20.	iP	18 28 45.0	<u>Kurile Islands</u> PV:1.6s 50.0nm MPV=5.4 Probably the second shock in the same focus.
21.	e	00 36 54	
21.	e	00 41(32)	<u>Probably South Sandwich Islands Region</u>
	e	57.0	55.62°S 26.91°W
	LmH	01(10)	H = 00 22 29.7 h = normal MAG=5.9 (USCGS) D = 110.5°
21.	-1P	13 31 07.2	<u>Northeast of Taiwan</u> 26.25°N 125.73°E
	e	31 18	H = 13 18 47.0 h = 103 km MAG=5.6
	e	31 30	D = 83.9° Az = 324.2° (USCGS)
	ePP	34 18	PV:2.0s 126nm
	e	34 48	MPV=5.5
	LmH	14 01	
21.	eP	14 25 49	<u>Near East Coast of Kamchatka</u>
	e	26 02.5	55.59°N 162.94°E H = 14 14 29.6 h = normal MAG=4.9 D = 71.5° Az = 341.2° (USCGS)
22.	e(Sg)	00 23 06	<u>Switzerland</u> 46.3°N 7.4°E H = 00 20 16 (BCIS) D = 5.1°
22.	eP	05 18 12	<u>New Britain Region</u> 5.40°S 151.55°E
	+ePKIKP	21 32.5	H = 05 02 37.2 h = 28 km MAG=6.2
	e	21 35.5	D = 123.9° Az = 330.4° (USCGS)
	ePP	23 19	PV2:1.2s 95.5nm PPV:28s 7.8/ μm
	ePPP	25(54)	PPH:28s 6.3/ μm PSH:28s 14.0/ μm

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Day	Phase	h m s	Remarks
cont.			
22.	ePKKP	05 31 20	LmV:20s 47.8/um LmH:20s 28.9/um
	ePS	33 12	MPPV=6.6 MPPH=6.6 MLV=7.2 MLH=6.9
	LmV	19.0	e 21 40 e 21 49 e 22 05.5 e 24 42
	LmH	20.2	
22.	ePKIKP	18 37 30	<u>New Britain Region</u> 5.60°S 151.48°E
	LmH	19 29	H = 18 18 36.4 h = 58 km MAG=5.5
	LmV	34	D = 124.0°
23.	ePg	13 48 47	<u>Switzerland</u> 46.3°N 7.4°E
	eSg	49 54	H = 13 47 06 (BCIS)
	e	50 05.5	D = 5.2°
23.	e	16 31 52	
24.	eP	00 27 10	<u>Eastern India</u> 26.39°N 91.51°E
	e	27 19	H = 00 16 40.5 h = 47 km MAG=5.1
			D = 63.8° Az = 315.7° (USCGS)
24.	i	09 26 29.0	
24.	eP	21 31 37.5	<u>Central Mid-Atlantic Ridge</u>
	epP	31 45	1.63°N 29.45°W
	esP	31 50	H = 21 21 32.2 h = normal MAG=4.7
			D = 59.9° Az = 28.9° (USCGS);
			h = 33 km
25.	e	03 04 15	
25.	ePKP	23 10 20.5	<u>Tonga Islands</u> 15.10°S 173.19°W
	eipPKP	10 33	H = 22 50 47.1 h = normal MAG=5.5 (USCGS)
	LmH	00 18.5	D = 144.3° h = 45 km
	LmV	18.5	
26.	+eIP	00 45 34	<u>Near Islands/Aleutian Is.</u>
			52.44°N 173.62°E
			H = 00 33 50.1 h = 51 km MAG=5.3
			D = 76.2° Az = 348.3° (USCGS)
			PV:1.4s 54.8nm
			MPV=5.5

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Day	Phase	h m s	Remarks
26.	eP	03 08 47	
26.	ePKP	11 41 21	<u>Tonga Islands</u> 15.40°S 173.37°W
	e	41 27.5	H = 11 21 56.8 h = 127 km MAG=4.9
	e	41 29.5	D = 144.6° Az = 354.5° (USCGS)
27.	eP	16 42 05	<u>Rat Islands/Aleutian Is.</u> 52.13°N 175.06°E
	LmH	17 10	H = 16 30 17.9 h = 52 km MAG=5.2 (USCGS)
			D = 76.5°
27.	e(PKP2)	16 46 15	<u>Kermadec Islands</u> 30.69°S 179.48°E
			H = 16 26 37.5 h = 502 km MAG=5.0
			D = 158.2°
27.	eP	20 54 43	<u>Unimak Island</u> 53.92°N 164.00°W
	LmH	21 30	H = 20 43 00.3 h = 40 km MAG=5.0
			D = 75.7° Az = 2.9° (USCGS)
27.	eP	20 57 50	<u>Michoacan/Mexico</u> 18.79°N 102.58°W
			H = 20 44 59.0 h = 94 km MAG=5.3
			D = 90.0° Az = 35.5° (USCGS)
27.	i	22 16 38	
27.	eP	22 27 02	PV:2.0s 44.5nm
28.	e(Sg)	01 10 57	<u>Alps of Swabia/GFR</u> 48.2°N 9.7°E
			H = 01 09 27 (BCIS)
			D = 2.7°
28.	-1P	02 13 35.7	<u>West of Hokkaido/Japan</u> 43.74°N 139.56°E
	-1	13 37.8	H = 02 02 13.6 h = 225 km MAG=5.5
	e	13 40	D = 75.7° Az = 328.8° (USCGS)
	+ePcP	13 48.5	PV1:1.6s 126nm PV2:1.2s 141nm
	epP	14 24	PV3:1.3s 88.5nm PoPV:1.0s 43.5nm
	e(PP)	16 24	MPV1=5.4
	eIS	22 58.5	-1 13 44.0 e 14 21 e 14 31 e 14 44
	LmH	(50)	e 16 12.5
	LmV	(50)	

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Day	Phase	h m s	Remarks
28.	iPg	13 10 56.0	Explosion.
	iSg	11 10.5	D = ca. 1.1°
28.	+iP	13 48 06.5	<u>Ryukyu Islands</u> 29.20°N 130.13°E
	e(pP)	48 16.5	H = $13^{\circ} 35' 39.0''$ h = normal MAG=5.5
	e	48 23.5	D = 83.8° Az = 325.8° (USCGS); (h = 37 km)
	eS	58(30)	PV1:1.5s 95.0nm PV2:2.1s 92.0nm
	eScS	58 44	LmH:16.5s 4.3/ μm LmV:16.5s 6.0/ μm
	eSS	14 04(30)	MPV=5.7 MLH=6.0 MLV=6.1
	LmH	29.7	
	LmV	29.7	
28.	ePKP	18 12 50.5	<u>Loyalty Islands</u> 21.70°S 170.49°E
	e	13 27	H = $17^{\circ} 53' 19.8''$ h = 106 km
	e	13 32	D = 146.7° Az = 335.2° (USCGS)
			PV:1.2s 20.4nm

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Day	Phase	h m s	Remarks
1.	e	07 33 51	
1.	e	10 10 10.5	
1.	e	12 47 29	Probably explosion.
	e	47 54.5	
2.	eP	01 44 42	
2.	eP	02 42 20	<u>East Caucasus</u> 42.99°N 45.81°E
	+iP	42 23.2	H = $02^{\circ} 37' 02.3''$ h = 24 km MAG=5.3
	i(PP)	42 57.2	D = 24.4° Az = 300.2° (USCGS)
	i(PPP)	43 06.5	PV2:1.2s 45.5nm
	e(S)	46(40)	LmH:13s 1.6/ μm LmV:14.5s 1.7/ μm
	e	46 52	MPV2=5.0 MLH=4.7 MLV=4.8
	eL1(3.70)	49 17	1 42 26.0 e 42 29.5 1 42 38.5
	iLg(3.38)	50 26	1 42 47.5 1 43 13.5 e 47 16
	iRg(3.09)	51 40	The first P-movement is very small, followed by a sharp and much bigger onset 3 s later. Well developed higher modes of surface waves.
	LmH	53.3	
	LmV	53.3	
2.	eP	06 06 50	<u>North of Svalbard</u> 85.99°N 19.02°E
	e	06 56	H = $05^{\circ} 59' 54.5''$ h = normal MAG=4.6
			D = 35.5° Az = 188.1° (USCGS)
2.	LmH	08 38	<u>Probably Ceram</u> (USCGS)
2.	e	11 40 45	<u>Rock burst/Upper Silesia</u>
	e	40 51	e 41 10 e 41 14.5 e 41 20
	e(Sg)	41 07	
2.	iP	12 03 05.7	<u>Near Islands/Aleutian Is.</u>
	epp	03 17.5	52.44°N 172.34°E
			H = $11^{\circ} 51' 20.7''$ h = 40 km MAG=5.3 (USCGS)
			D = 76.2° h = 45 km
			PV:1.3s 27.9nm
			MPV=5.2

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Moxa

Day	Phase	h m s	Remarks
3.	+1P	03 37 14.4	<u>Kurile Islands</u> 48.32°N 154.31°E
	e	37 17	H = 03 25 28.0 h = 45 km MAG=5.9 (USCGS)
	e	37 22	D = 76.2°
	eS	46 52	PV:1.4s 167nm
	eSS	52.0	LmH:20s 2.8/ μm LmV:21s 4.0/ μm
	eP'P'	04 04(36)	MPV=6.0 MLH=5.6 MLV=5.7
	LmH	14.3	e 37 29 e 37 32
	LmV	14.2	
3.	e(S)	10 35.0	<u>North Atlantic Ridge</u> 19.98°N 45.70°W
	LmV	47.3	H = 10 17 50.6 h = normal MAG=5.0 (USCGS)
	LmH	47.5	D = 54.2°
			LmH:16s 0.7/ μm LmV:16s 0.9/ μm
			MLH=4.8 MLV=5.0
3.	iPg	15 21 17.3	Probably explosion.
	i(Sg)	21 39.5	
	e	21 46	
3.	ePKP	21 48 16	<u>Fiji Islands</u> 20.54°S 178.71°W
			H = 21 29 35.7 h = 605 km MAG=4.8 (USCGS)
			D = 148.6°
4.	ePKP	02 00 27.5	<u>Fiji Islands</u> 17.95°S 178.25°W
			H = 01 41 46.1 h = 532 km MAG=3.7 (USCGS)
			D = 146.3°
4.	eP	06 09 41	<u>West Pakistan</u> 29.98°N 70.00°E
	e	09 47	H = 06 01 05.0 h = normal MAG=4.4
	e	10 07.5	D = 47.7° Az = 312.9° (USCGS)
4.	e	11 05 48.5	
	e	05 52	
4.	eP	11 37 22	
4.	eP	11 50 15.5	

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Day	Phase	h m s	Remarks
5.	+ePKIKP	00 18 56	<u>North Island/New Zealand</u>
	+ePKP2	19 50	38.76°S 177.92°E
	ePP	23 35	H = 23 58 55.9 h = 27 km MAG=6.1 (USCGS)
	e(PPP)	27(40)	D = 164.6°
	e(PcPP')	29 00	PV1:2.0s 44.5nm PV2:2.0s 81.5nm
	ePSKS	34 00	LmH:24s 1.7/ μm LmV:24s 2.3/ μm
	eSPP	37 25	MLH=5.8 MLV=5.9
	eSS	44.0	
	eSSS	50.7	
	LmH	01 30.5	
	LmV	42.1	
5.	-ePKP	16 04 38	<u>Fiji Islands</u> 17.56°S 176.17°E
	epPKP	04 43.5	H = 15 45 05.0 h = normal MAG=5.4
	e(sPKP)	04 47	D = 144.7° Az = 342.9° (USCGS); h = ca. 20 km
			PV1:1.8s 40.5nm PV2:1.6s 31.6nm
5.	eP	21 04 24	<u>North of Ascension Island</u> 0.03°N 17.98°W
	e(pP)	04 34	H = 20 54 45.7 h = normal MAG=5.2 (USCGS)
	e	04 50	D = 56.3° (h = 40 km)
	eS	12 20	PV1:1.8s 25.0nm PV2:2.0s 66.5nm
	eLQ	18.0	SH:19s 1.3/ μm
	LmH	25.5	LmH:16s 1.4/ μm LmV:16s 1.4/ μm
	LmV	29.5	MPV=5.0 MSH=5.6 MLH=5.2 MLV=5.2
5.	ePKIKP	23 09 19	<u>Tonga Islands</u> 21.48°S 175.31°W
	+1PKHKP	09 24.5	H = 22 49 34.9 h = 40 km MAG=5.1
	+1PKP2	09 31.0	D = 150.4° Az = 351.1° (USCGS); (h = 48 km)
	e(pPKHKP)	09 37.5	
	LmV	00 23	PV2:1.6s 60.5nm PV3:1.5s 45.0nm
	LmH	25	PV4:1.4s 54.7nm
6.	-eP	02 20 14.5	<u>Tibet</u> 31.57°N 80.53°E
	e	20 20	H = 02 10 56.8 h = 35 km MAG=5.4 (USCGS)
			D = 53.1°
			PV:1.8s 50.0nm
			MPV=5.3

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Day	Phase	h m s	Remarks
6.	-eP	02 25 12.5	<u>Tibet</u> 31.58°N 80.46°E
	e	25 19.5	H = 02 15 56.7 h = 44 km MAG=6.1 (USCGS)
	e	25 25.5	D = 52.9°
	e(PcP)	26 26.5	PV1:2.4s 261nm PV:6.5s 1.7/ μm
	e	26 29	(PoP)V:1.7s 278nm PPV2:15s 3.3/ μm
	ePP1	27 13	PPH2:14s 2.3/ μm SH2:18s 8.8/ μm
	ePP2	27 24	LmH:20s 115/ μm LmV:17s 45.3/ μm
	ePPP	28 18	MPV1=5.9 MPV=6.3 MPPV2=6.2 MPPH2=6.4
	e(S1)	32 40	MSH2=6.6 MLH=6.9 MLV=6.6
	eS2	32 52	Successive P-onsets with increasing amplitude seem typical for earthquakes from Tibet-China region. Interpretation as deep-phases for P and
	eSS	36 28	or in terms of focal mechanisms of this region is open.
	eSSS	38 30	
	LmH	46.5	
	LmV	50.2	
	eP'P'	55 48	
6.	ePKP	18 21 42	<u>South of Fiji Islands</u> 24.14°S 176.93°W
	e	21 46	H = 18 01 50.0 h = normal MAG=5.4
	e	21 50	D = 152.7° Az = 348.1° (USCGS)
	e	22 54	LmH:20s 0.9/ μm LmV:18s 1.2/ μm
	LQ	19 04.6	MLH=5.6 MLV=5.7
	LmH	37.7	
	LmV	39.4	
6.	e	23 36 53	
	e	37 07	
7.	e(P)	00 10 16.5	
7.	-eP	01 21 21.5	<u>Turkey</u> 39.12°N 41.74°E
	e	21 28	H = 01 16 05.8 h = 13 km MAG=5.5
	e	21 31	D = 24.1° Az = 308.5° (USCGS)
	eS	25 40	PV1:1.4s 42.8nm PV2:1.8s 200nm
	eSS	26 20	SH:14.5s 6.0/ μm
	LmH	33.1	LmH:15s 13.8/ μm LmV:15.5s 9.1/ μm
	LmV	33.1	MPV1=4.9 MPV2=5.4 MSH=5.8 MLH=5.6
			MLV=5.5

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Day	Phase	h m s	Remarks
7.	ePKHP	02 54 09	<u>Fiji Islands</u> 20.53°S 178.44°W
	e(PKP2)	54 16.5	H = 02 35 27.6 h = 601 km MAG=4.9
			D = 148.9° Az = 347.6° (USCGS)
			PV:1.5s 45.0nm
7.	eP	17 17 18.5	<u>Eastern Caucasus</u> 42.95°N 45.96°E
			H = 17 11 59.9 h = normal MAG=4.6 (USCGS)
			D = 24.0°
7.	i(Pg)	21 22 47	<u>Austria</u> 47.1°N 14.4°E
	iSg	23 51.5	H = 21 21 41 (BCIS)
			D = 4.0°
7.	eP	21 40 23.5	<u>Northeastern China</u> 37.24°N 114.84°E
	e(pP)	40 32	H = 21 29 17.0 h = normal MAG=5.8 (USCGS)
	e(PcP)	40 47	D = 69.4° (h = 32 km)
	e(pPcP)	40 55.5	PV:2.5s 179nm (PcP)V:2.4s 216nm
	ePP	43(02)	MPV=5.8 MLH=7.3
	eS	49 32	Successive P-onsets with increasing amplitude. Interpretation as given or in
	eSS	54 00	terms of successive temporal stress-
	eSSS	57.5	release in the focal region for north-
	eLQ	58.6	eastern China-earthquakes is open. The
	LmH	22 12.8	remarkable difference between magnitudes from body and surface waves seems to be typical for registrations of northeastern China-earthquakes at our station.
7.	eP	22 46 52.5	<u>Tibet</u> 29.25°N 98.59°E
	ePP	46 57	H = 22 36 03.2 h = 17 km MAG=5.2
	e	47 02	D = 66.2° Az = 316.0° (USCGS);
	e	47 10	h = 17 km
			PV:1.3s 28.0nm
			MPV=5.3
8.	ePKIKP	00 37 52.5	<u>Tonga Islands</u> 18.89°S 173.28°W
	iPKHP	37 56.0	H = 00 18 09.8 h = normal MAG=5.3
	e	38 04	D = 148.1° Az = 354.1° (USCGS)
			PV2:2.0s 96.5nm

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Day	Phase	h m s	Remarks
8.	ePKIKP	01 33 03	<u>New Hebrides Islands</u> 13.86° S 166.56° E
	e	33 21.5	H = 01 13 42.3 h = 37 km MAG=5.8 (USCGS)
	ePP	35 50	D = 138.0°
	e	36 32	PV:1.9s 46.6nm SKPV:1.0s 50.0nm
+1SKP		36 44.0	The phase interpreted as SKP is very well developed only in the registrations of the shortperiod vertical instruments.
LmH		02 26.5	
LmV		26.5	
8.	eP	05 55 06	<u>Molucca Passage</u> 1.86° N 126.35° E
epP		55 16	H = 05 41 04.5 h = normal MAG=5.9 (USCGS)
ePP		59 28	D = 104.1° h = 36 km
e		59 40	PV:2.8s 120nm SKSH:11.5s 1.3/ μ m
eSKS		06 05 38	LmH:18.5s 6.4/ μ m LmV:19s 8.3/ μ m
eS		06 56	MLH=6.2 MLV=6.3
LmH		47.2	
LmV		47.2	
8.	e(Pg)	12 44 56	<u>Explosion/GDR</u>
e(Sg)		45 11.5	D = 1.2°
8.	eP	18 54 59	<u>Greece</u> 38.91° N 21.35° E
LmH		59.8	H = 18 51 47.2 h = 48 km MAG=5.1
LmV		19 00.9	D = 13.6° Az = 332.8° (USCGS)
			LmH:12.5s 1.4/ μ m LmV:9.5s 1.4/ μ m
			MLH=4.2 MLV=4.5
8.	e(P)	20 59 50	<u>Chile-Bolivia Border Region</u>
e		59 52.5	19.99° S 68.91° W
ePP		21 03 41	H = 20 46 12.0 h = 122 km MAG=5.9 (USCGS)
eSKS		10 16	D = 99.4°
LmH		(36)	PV2:1.4s 16.7nm SKSH:8s 0.6/ μ m
LmV		(36)	e 00 10 e 03 34
			First motion of P, which must be 11 s earlier, is not detectable.
8.	e	21 16 33.5	

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Day	Phase	h m s	Remarks
8.	ePKP	23 35 36	<u>Tonga Islands</u> 21.47° S 175.21° W
	e	35 45	H = 23 15 45.1 h = normal MAG=4.7
	e	35 49	D = 150.4° Az = 351.2° (USCGS)
			PV:1.2s 18.2nm
9.	e(P)	11 00 43	
9.	i	15 00 35	
9.	ePKP	16 03 06	<u>Easter Island Cordillera</u> 55.19° S 126.70° W
	e	03 26	H = 15 43 11.1 h = normal MAG=5.0
			D = 154.7° Az = 82.9° (USCGS)
10.	-eIP	04 38 12	<u>South of Honshu/Japan</u> 32.20° N 137.54° E
epP		39 43	H = 04 26 19.6 h = 382 km MAG=5.6
ePP		41 31	D = 84.7° Az = 328.8° (USCGS);
eIS		48 00	h = 400 km
LmH		05 17.3	PV:2.0s 89.0nm SH:6.0s 1.75/ μ m
LmV		19	LmH:12s 0.7/ μ m LmV:12s 0.6/ μ m
			MPV=5.6 MSH=5.9
			e 39 52 1 41 12.5 e 50 46
10.	e(P)	06 52 52.5	
10.	eP	11 24 06	<u>Turkey</u> 39.3° N 41.6° E
	e	25 43	H = 11 18 56 (BCIS)
	e	26 21	D = 23.8°
	e	27 35.5	
10.	ePKHP	12 34 28	<u>Fiji Islands</u> 19.33° S 177.02° W
epPKHP		35 50	H = 12 15 19.4 h = 320 km MAG=5.5
			D = 148.0° Az = 349.6° (USCGS);
			h = 335 km
10.	e	16 16 43	
11.	e	02 06 06	

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Day	Phase	h m s	Remarks
11.	e(Sg)	04 11 51	Explosion?
	e	12 04	
	e	12 15	
11.	ePKHP	08 14 21	<u>Easter Island Cordillera</u> 55.19° S 126.61° W H = 07 54 17.0 h = normal MAG=5.3 D = 154.7° Az = 82.9° (USCGS) PV:1.4s 19.0nm
11.	+eP	20 06 03	<u>Crete</u> 34.40° N 24.44° E e 06 07 H = 20 01 43.8 h = 22 km MAG=5.1 ePP 06 15 D = 18.7° Az = 333.9° (USCGS) ePPP 06 27 PV:1.5s 50.0nm LmH 15.0 LmH:16s 1.7/ μ m LmV:(16s) 1.7/ μ m LmV 15.0 MLH=4.5 MLV=4.5
11.	eP	20 14 02	
11.	e(P)	23 22 03.5	<u>North Atlantic Ridge</u> 28.37° N 43.83° W H = 23 13 27.2 h = normal MAG=5.0 (USCGS) D = 47.0°
11.	eP	23 24 12.5	<u>North Atlantic Ridge</u> 28.24° N 43.91° W H = 23 15 42.3 h = normal MAG=5.0 D = 47.1° Az = 45.8° (USCGS) PV:1.8s 43.7nm MPV=5.2
11.	eP	23 45 12	<u>North Atlantic Ridge</u> 28.46° N 43.99° W H = 23 36 42.7 h = normal MAG=5.1 D = 47.0° Az = 45.9° (USCGS) PV:1.8s 31.2nm MPV=5.1
12.	ePKP2	01 25 56	<u>Kermadec Islands</u> 30.81° S 178.53° W H = 01 05 34.6 h = 94 km MAG=5.4 (USCGS) D = 158.9° PV:1.6s 31.6nm
12.	e(P)	11 08 19	

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Day	Phase	h m s	Remarks
12.	e(PKP)	12 28 46	<u>Probably Kermadec Islands</u> (USCGS)
12.	ePKP	14 39 10	<u>Samoa Islands</u> 14.99° S 173.62° W H = 14 19 38.0 h = 35 km MAG=5.1 D = 144.2° Az = 354.3° (USCGS) PV:2.0s 48.0nm
12.	1PKP	14 46 32.0	<u>Tonga Islands</u> 15.65° S 173.04° W H = 14 26 57.6 h = normal MAG=5.2 (USCGS) D = 144.9°
12.	+1P1	16 43 47.5	<u>Taiwan</u> 24.12° N 122.61° E
	+1P2	43 55	H = 16 31 21.8 h = 63 km MAG=6.7
	eIPP	47 04	D = 84.0° Az = 323.3° (USCGS)
	e(PPP)	48 45	PV1:4.5s 1.2/ μ m PV2:15s 100/ μ m
	e(Pa)	50 45	PPV:14s 35/ μ m SH2:13s 98.5/ μ m
	IS1	54 08	LmH:20s 590/ μ m LmV:20s 670/ μ m
	IS2	54 14	MPV1=6.3 MPV2=7.7 MPPV=7.7 MSH2=7.8
	eP'P'1	17 10 11	MLH=8 MLV=8
	+1P'P'2	10 20.0	Double shock. Much bigger P2-onset followed by P1 after 7.5 s.
	eSKPP'1	13 25	
	eSKPP'2	13 32	
	LmH	26.5	
	LmV	27	
12.	eP	18 12 02	<u>Taiwan</u> 24.39° N 122.78° E
	e	12 05.5	H = 17 59 38.9 h = 85 km MAG=5.7 (USCGS) D = 84.0°
12.	eP	18 26 06	<u>Probably Taiwan.</u>
12.	eP	19 26 20	<u>Probably Taiwan.</u>
12.	eP	19 35 29	<u>Taiwan</u> 24.00° N 122.91° E
	e	35 31.5	H = 19 23 01.8 h = 63 km MAG=4.9 D = 84.2° Az = 323.4° (USCGS) PV:1.8s 31.2nm MPV=5.1

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Day	Phase	h m s	Remarks
12.	e(P)	21 43 46	
	e	43 52	
12.	eP	22 13 14	
12.	eP	22 16 41	<u>Taiwan</u> 24.29°N 122.72°E H = 22 04 17.7 h = normal MAG=4.6 (USCGS) D = 83.8°
12.	eP	22 50 25	<u>Western Mediterranean Sea</u> 39.3°N 05.7°E
	e	50 38	H = 22 47 33 (BCIS) D = 11.2°
13.	eP	01 45 10	<u>North Atlantic Ridge</u> 28.29°N 43.81°W H = 01 36 34.0 h = normal MAG=4.9 (USCGS) D = 46.9°
13.	eP	03 30 25	
13.	eP	15 06 15	<u>Taiwan</u> 23.80°N 122.71°E
	LmH	48.2	H = 14 53 47.6 h = 51 km MAG=5.0 D = 84.3° Az = 323.3° (USCGS) LmH:14s 0.6/um MLH=5.1
13.	ePKIKP	18 18 26.5	<u>Easter Island Cordillera</u>
	ePKHKP	18 35	54.95°S 126.41°W
	ePKP2	18 51	H = 17 58 35.6 h = normal MAG=5.4
	LmH	19 20	D = 154.5° Az = 82.2° (USCGS)
	LmV	25	PV2:1.8s 25.0nm PV3:2.2s 81.8nm
13.	1PKHKP	19 00 23.0	<u>Tonga Islands</u> 20.89°S 175.42°W
	epPKHKP	00 44	H = 18 40 40.7 h = 65 km MAG=5.2
	e	00 55	D = 149.8° Az = 351.1° (USCGS); h = 75 km PV1:1.4s 52.5nm PV2:1.8s 106nm
13.	eP	19 39(11)	<u>Greece</u> 38.94°N 21.57°E
	e	39 20	H = 19 35 51.5 h = 11 km MAG=4.3 (USCGS) D = 13.7°

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Day	Phase	h m s	Remarks
14.	eP	03 31 36	<u>Central Mid-Atlantic Ridge</u>
	e(pP)	31 42.5	0.88°N 27.68°W
	e	31 47	H = 03 21 31.7 h = normal MAG=5.2 D = 59.7° Az = 27.8° (USCGS); h = 25 km PV1:2.0s 44.5nm PV2:1.9s 63.5nm PV3:2.0s 52.0nm
14.	e(P)	04 28 48	
14.	eP	04 53 19	<u>Tibet</u> 32.43°N 97.39°E H = 04 42 50.4 h = normal MAG=4.9 (USCGS) D = 63.3°
14.	1P	06 50 20.5	<u>Honshu/Japan</u> 37.14°N 140.83°E
	e(pP)	50 35	H = 06 38 06.5 h = 63 km MAG=4.8 (USCGS) D = 81.7°
14.	LmH	10 16	<u>Taiwan</u> 23.81°N 122.32°E
	LmV	16	H = 09 21 49.2 h = 43 km MAG=4.8 (USCGS) D = 84.0°
14.	e(P)	12 22 54.5	
14.	e	13 41 26	
14.	eP	14 11 50.5	<u>Greece</u> 39.17°N 21.36°E
	e	11 58	H = 14 08 40.7 h = 48 km MAG=4.4
	LmH	16.4	D = 13.4° Az = 332.2° (USCGS)
	LmV	17.7	LmH:13s 2.7/um LmV:13s 1.25/um MLH=4.5 MLV=4.3
15.	e(P)	09 23 08	<u>West Pakistan</u> 29.93°N 69.72°E
	e	23 14.5	H = 09 14 29.3 h = 36 km MAG=4.7
	e	23 17	D = 47.6° Az = 312.9° (USCGS)
15.	LmH	11 24	
	LmV	27.2	

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Day	Phase	h m s	Remarks
15.	eP	11 26 25	<u>Taiwan</u> 24.22°N 122.69°E H = 11 14 00.9 h = 65 km MAG=5.2 D = 83.9° Az = 323.3° (USCGS)
15.	ePKHKP ePKP2	16 29 10 29 19	<u>South of Fiji Islands</u> 22.12°S 79.39°W H = 16 10 25.0 h = 588 km MAG=4.4 (USCGS) D = 150.1° PV1:1.3s 23.2nm PV2:1.3s 18.6nm
15.	eP LmH LmV	23 44 15 00 26.8 25.9	<u>Taiwan</u> 24.41°N 122.67°E H = 23 31 46.1 h = 22 km MAG=5.6 (USCGS) D = 84.0° LmH:16.5s 1.5/um LmV:15s 1.7/um MLH=5.5 MLV=5.6
16.	ePKP	00 03 03	<u>Fiji Islands</u> 17.99°S 178.20°W H = 23 44 27.6 h = 606 km MAG=4.5 (USCGS) D = 146.4°
16.	eSg	01 24 03	<u>Belgium</u> 50.5°N 4.2°E H = 01 21 30 (BCIS) D = 4.7°
16.	i eSg	11 25 26.0 25 52	<u>Switzerland</u> 47.4°N 8.2°E H = 11 23 46 (BCIS) D = 3.9°
16.	ePKIKP ePKHKP e e LmH LmV	12 32 43.5 32 48.5 32 52 33 01.5 13 50 50	<u>Tonga Islands</u> 21.20°S 174.32°W H = 12 13 02.4 h = 66 km MAG=5.4 D = 150.2° Az = 352.4° (USCGS) PV2:1.5s 75.0nm PV3:1.7s 116nm LmH:16s 0.5/um LmV:16s 0.45/um MLH=5.4 MLV=5.4
16.	iPn iPb iPg iSn iSg	13 28 07.0 28 12.5 28 18 28 45 29 00	<u>Austria</u> 47.4°N 11.5°E H = 13 27 16 (BCIS) D = 3.2°

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Day	Phase	h m s	Remarks
16.	iPg e eSn eSg	15 52 02.6 52 13.5 52 28 52 45	<u>Austria</u> 47.4°N 11.5°E H = 15 51 00 (BCIS) D = 3.2°
16.	eP eS LmH LmV	20 51 47 21 03 05 38.5 42.3	<u>Sulu Sea</u> 9.52°N 121.95°E H = 20 38 23.5 h = 24 km MAG=5.4 D = 95.2° Az = 323.2° (USCGS) PV:1.5s 25.0nm LmH:16s 0.6/um LmV:16s 0.9/um MPV=5.4 MLH=5.2 MLV=5.4
17.	e	04 11 40	
17.	-iPKIKP -iPKHKP -iPKP2 epPKP esPKP ePP esPP ePSKS eSS esSS	16 09 06.5 09 12.5 09 19.5 11 40 12 36 12 56 16 02 23.0 32.0 35.0	<u>Fiji Islands</u> 21.08°S 179.18°W H = 15 50 32.2 h = 626 km MAG=6.2 (USCGS) D = 149.4° h = ca. 670 km PV1:2.3s 1140nm PV2:2.2s 6050nm PV3:1.7s 1780nm pPKPV:5.5s 2.2/um sPKPV:7s 4.7/um PPV:12s 3.0/um sPPV:12s 2.7/um MPPV=6.2
17.	eP	16 45 42	
18.	e(P) e e e	03 04 44.5 04 55 05 36.5 06 20	
18.	e(P)	14 26 13	<u>Andreanof Islands/Aleutian Is.</u> 51.82°N 174.71°W H = 14 14 13.9 h = 56 km MAG=4.7 (USCGS) D = 77.8° The first onset of P must be 7 s earlier than e(P).

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Day	Phase	h m s	Remarks
18.	+1P	18 22 07.5	<u>South of Alaska</u> 60.34°N 146.60°W
	e	22 12	H = 18 11 09.4 h = 34 km MAG=4.9 (USCGS)
	e	22 14	D = 68.0°
	LmV	54.3	PV:1.1s 28.8nm
	LmH	56.7	MPV=5.4
18.	ePKP	21 05 48.5	<u>New Hebrides Islands</u> 20.72°S 169.72°E
	ipPKP	06 12.5	H = 20 46 19.4 h = 78 km MAG=5.1
	isPKP	06 25.5	D = 145.5° Az = 335.2° (USCGS); h = ca. 90 km
			PV1:1.2s 31.8nm PV2:1.4s 23.8nm
			PV3:1.0s 39.1nm
19.	eP	08 23 42	<u>Hokkaido/Japan</u> 43.26°N 145.76°E
	e	23 47	H = 08 11 40.3 h = 11 km MAG=5.6 (USCGS)
	e	24 07	D = 78.4°
	e	24 14	PV:1.8s 31.2nm
			MPV=5.1
19.	eP	15 12(05)	<u>Taiwan</u> 23.78°N 122.51°E
	e	12 26	H = 14 59 37.0 h = 42 km MAG=5.7
	e	12 49	D = 84.2° Az = 323.3° (USCGS)
	e	12 56	
19.	e	17 30(52)	<u>Southwest of Africa</u> 52.73°S 19.93°E
	e	34 54	H = 17 16 40.9 h = normal MAG=5.4 (USCGS)
	e	35 18.5	D = 103.0°
	LmH	18 23.4	LmH:18s 1.9/ μm LmV:18s 2.4/ μm
	LmV	23.4	MLH=5.7 MLV=5.8
			First-motion of P is not detectable.
19.	LmH	17 40.2	<u>Northeastern China</u> 37.38°N 114.82°E
	LmV	44.2	H = 16 59 41.7 h = normal MAG=4.9 (USCGS)
			D = 69.4°
			LmH:13.5s 1.7/ μm LmV:14.5s 2.1/ μm
			MLH=5.5 MLV=5.5

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Day	Phase	h m s	Remarks
20.	e	00 10 11	<u>Belgium</u> 50.0°N 4.2°E
	e(Sn)	10 15	H = 00 08 14 (BCIS)
	e	10 32	D = 4.8°
	eSg	10 48	
	e	10 53	
20.	-1P1	01 51 58.0	<u>Uganda</u> 0.58°N 30.16°E
	-1P2	51 59.2	H = 01 42 49.9 h = 36 km MAG=6.1
	+1	52 12.0	D = 52.3° Az = 345.2° (USCGS)
	e	52 13	PV2:2.2s 573nm PV3:2.0s 785nm
	ePcP	53 12	PPV:15s 12/ μm PPH:15s 9/ μm
	ePP	54 00	SH:19s 47/ μm
	eS	59 20	LmH:19.5s 228/ μm LmV:19s 294/ μm
	e(ScS)	02 01 52	MPV2=6.3 MPPV=6.6 MPPH=6.9 MSH=7.2
	eSS	02 56	MLH=7.3 MLV=7.4
	e	05(40)	P1 is a small-amplitude precursor.
	LmH	16.3	
	LmV	16.3	
	eP'P'	22 40	
20.	+1P	05 57 47.0	<u>Kazakh SSR</u> 50.0°N 78.0°E
	ePn	59 18.5	H = 05 50 00 (BCIS)
	1PP	59 22.0	D = 41.1°
	eLg(3.43)	06 12(12)	PV:1.0s 344nm PPV:1.6s 89.6nm
	LmV	15.8	LmH:8s 1.3/ μm LmV:8s 1.5/ μm
	LmH	16.3	MPV=6.2 MPPV=5.4 MLH=5.2 MLV=5.3
			Underground explosion
20.	ePKP	08 07 16.5	<u>Tonga Islands</u> 16.97°S 174.26°W
	-iPKP	07 18.0	H = 07 47 50.2 h = 117 km MAG=5.7
	epPKP	07 52	D = 146.1° Az = 353.3° (USCGS); h = 124 km
			PV2:1.6s 374nm
20.	eP	09 04 48	<u>Republic of the Congo</u> 0.78°N 29.79°E
	e	05 03.5	H = 08 55 35.5 h = 12 km MAG=5.3 (USCGS)
			D = 52.0°
20.	ePKIKP	09 24 08	<u>Tonga Islands</u> 21.03°S 174.52°W
	+ePKHKP	24 13.5	H = 09 04 31.8 h = 95 km MAG=5.2

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Day	Phase	h m s	Remarks
<u>cont.</u>			
20.	e	09 24 23	D = 150.1° Az = 352.2° (USCGS)
	i	24 29.5	PV2:1.6s 155nm PV4:1.8s 194nm
	LmH	10 41.7	LmH:16s 1.7/ μ m LmV:16s 1.9/ μ m
	LmV	41.7	MLH=5.9 MLV=6.0
20.	LmH	19 22	<u>Probably Santa Cruz Islands</u> (USCGS)
20.	eP	21 54 54	<u>Jan Mayen Island</u> 71.80°N 2.50°W
	e	55 00	H = 21 50 00.0 h = normal MAG=4.8
	e	55 04.5	D = 22.2° Az = 155.7° (USCGS)
	e	55 29.5	PV:1.6s 68.4nm MPV=4.8
20.	eP	22 33 43	<u>Jan Mayen Island</u> 71.15°N 5.81°W H = 22 28 49.9 h = normal MAG=4.3 D = 22.1° Az = 149.5° (USCGS)
21.	eP	00 15 26	<u>Taiwan</u> 23.82°N 122.86°E
	LmH	48	H = 00 02 55.6 h = normal MAG=4.9 (USCGS) D = 84.3° PV:1.0s 13.1nm MPV=5.0
21.	eP	01 39 50	<u>Uganda</u> 0.77°N 30.03°E
	LmH	02 06.5	H = 01 30 41.6 h = normal MAG=5.2 (USCGS) D = 52.1° PV:2s 44.5nm MPV=5.2
21.	eP	06 41 40	<u>Ryukyu Islands</u> 26.09°N 129.10°E
	LmH	07 17.6	H = 06 29 01.3 h = normal MAG=5.5
	LmV	25.2	D = 85.8° Az = 325.5° (USCGS) PV:2.0s 37.0nm LmH:18s 1.7/ μ m LmV:16s 1.0/ μ m MPV=5.2 MLH=5.5 MLV=5.4

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Day	Phase	h m s	Remarks
21.	eP	09 33 01.5	<u>Uganda</u> 0.77°N 30.01°E H = 09 23 53.2 h = normal MAG=4.8 (USCGS) D = 52.0° PV:1.8s 28.1nm MPV=5.1
21.	e(P)	13 03 02.5	
21.	iP	20 50 09.5	<u>Taiwan</u> 21.77°N 121.08°E H = 20 37 37.4 h = 53 km MAG=4.8 (USCGS) D = 84.8°
21.	i	21 43 03.5	<u>Yugoslavia</u> 43.52°N 17.70°E
	e	43 18	H = 21 39 01.6 h = 21 km (USCGS)
	eSg	43 30	D = 8.2°
	e	43 37	
22.	eSn	02 47 16	<u>Yugoslavia</u> 43.4°N 17.7°E
	eSg	48 12	H = 02 43 41 (BCIS)
	e	48 21	D = 8.2°
22.	eP	08 22 43	<u>Northeastern China</u> 37.54°N 115.02°E H = 08 11 33.7 h = 11 km MAG=6.0 (USCGS) D = 69.3° PV:2.0s 59.3nm MPV=5.4
22.	eP1	08 30 40	<u>Northeastern China</u> 37.50°N 115.11°E
	+IP2	30 44.0	H = 08 19 33.8 h = normal MAG=6.0 (USCGS)
	+IP3	30 49.0	D = 69.5°
	ePP	33 16	PV:9s 5.8/ μ m PV1:1.6s 26.5nm
	ePPP	34 58	PV2:1.2s 92.3nm PV3:1.6s 204nm
	eS	39 48	PPV:9.5s 3.5/ μ m PPH:9.5s 2/ μ m
	ePS	40 16	SH:12s 12.5/ μ m
	ePPS	40 28	LmH:15s 295/ μ m LmV:16s 315/ μ m
	eSS	44 20	MPV=6.8 MPPV=6.6 MPPH=6.6 MSH=6.9
	LmH	59	MLH=7.7 MLV=7.7
	LmV	09 04	Such great differences between magnitudes from body waves and surface waves and

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Moxa

Day	Phase	h m s	Remarks
cont.			
22.			successive P-onsets with increasing amplitude seem to be typical for earthquakes from northeastern China region, registered at our station. Compare 7. March 21 40, 26. March 15 30.
22.	e	10 37 05.5	
22.	eP	11 19 45	<u>Northeastern China</u> 38.06°N 114.96°E
	e	19 49	H = 11 08 40.1 h = normal MAG=5.3
	e	20 25	D = 69.1° Az = 318.4° (USCGS) PV:1.8s 37.5nm MPV=5.3
23.	+eP	00 17 03	<u>Taiwan</u> 23.79°N 122.85°E
	+iP	17 03.8	H = 00 04 34.7 h = 51 km MAG=6.3
	i	17 05.0	D = 84.4° Az = 323.4° (USCGS);
	e	17 17	h = 67 km
	epP	17 21	PV2:1.4s 679nm PV:5s 4.8 μm
	ePP	20 16	PH:4.5s 1.9 μm SH:12s 2.0 μm
	ePPP	22 03	LmH:16s 8.7 μm LmV:18s 9.5 μm
	eS	27 16	MPV2=6.6 MPV=6.9 MPH=7.1 MSH=6.2
	eSS	27 48	MLH=6.3 MLV=6.3
	eSS	33.8	
	ePKKP	35 17	
	eLQ	38.7	
	eP'P'	43 21	
	eSKPP'	46 35	
	LmV	59.2	
	LmH	01 01.3	
23.	ePKP	04 30 24	<u>Near Coast of Central Chile</u>
	e	30 40	38.10°S 73.56°W H = 04 11 36.1 h = normal MAG=5.3 (USCGS) D = 109.8°
23.	eP	05 23 49.5	<u>Caribbean Sea</u> 16.76°N 85.90°W
	e	24 14	H = 05 11 32.5 h = normal MAG=5.3 (USCGS) D = 81.8°

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Day	Phase	h m s	Remarks
23.	ePKP	08 21 04	<u>Tonga Islands</u> 21.47°S 174.03°W
	e	21 07	H = 08 01 13.3 h = normal MAG=4.9 D = 150.5° Az = 352.7° (USCGS) PV2:2.4s 79.5nm
23.	ePKP	11 41 07	<u>South of Kermadec Islands</u> 32.79°S 178.48°W H = 11 20 30.1 h = 44 km MAG=4.8 (USCGS) D = 160.7°
23.	e	17 41 25	<u>Northeastern China</u> 37.47°N 114.99°E
	LmH	18 07.5	H = 17 28 01.5 h = normal MAG=5.2 (USCGS)
	LmV	11.5	D = 69.4°
23.	e	20 31 42	
24.	ePKIKP	04 24 20	<u>Fiji Islands</u> 21.47°S 176.44°W
	ePKHKP	24 25	H = 04 04 55.5 h = 191 km MAG=5.2
	e	24 30	D = 150.2° Az = 349.7° (USCGS);
	i	24 39	h = 190 km
	epPKHKP	25 15	PV2:1.6s 63.0nm
24.	e(P)	14 59 19	
	e	59 27.5	
25.	LmH	07 13.8	<u>Northeastern China</u> 37.64°N 115.25°E
	LmV	18.0	H = 06 33 22.7 h = normal MAG=4.6 (USCGS) D = 69.3° LmH:13s 0.75 μm LmV:13s 1.2 μm MLH=5.1 MLV=5.3
25.	eP	13 06 51	<u>Andreanof Islands/Aleutian Is.</u> 51.48°N 179.60°W
	e	06 58.5	H = 12 54 55.7 h = normal MAG=4.9 D = 77.8° Az = 352.7° (USCGS)
25.	eP	23 21 21	<u>Turkey</u> 38.87°N 29.15°E
			H = 23 17 20.0 h = normal MAG=4.4 D = 17.1° Az = 319.2° (USCGS)

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Moxa

Day	Phase	h m s	Remarks
26.	eP	09 53 29	<u>Southern Rhodesia</u> 18.47° S 26.17° E H = 09 42 17.8 h = 16 km MAG=5.2 (USCGS) D = 70.0°
26.	e	12 35 11.5	<u>Iceland Region</u> 63.08° N 24.28° W H = 12 29 54.6 h = normal MAG=4.7 D = 22.9° Az = 106.2° (USCGS) First P-movement, which must be 15 s earlier, is not detectable.
26.	eP	14 21 49	<u>Philippine Islands</u> 19.85° N 120.69° E
	e	22 02	H = 14 09 06.3 h = 12 km MAG=5.2
	e	22 06	D = 86.3° Az = 322.9° (USCGS) PV:1.8s 18.7nm MPV=5.0
26.	+IP	15 30 10.0	<u>Northeastern China</u> 37.64° N 115.18° E
	+i	30 18.0	H = 15 19 03.2 h = normal MAG=5.5 (USCGS)
	es	39 16	D = 69.4°
	eSS	43 50	PV2:2.3s 110nm SH:9s 1.2/ μ m
	eSa(4.57)	47 09	SSH:28s 0.8/ μ m SaH:(36s) 2.8/ μ m
	LmH	59.7	LmH:14s 30/ μ m LmV:16s 20.3/ μ m
	LmV	16 03.8	MPV2=5.6 MSH=6.0 MLH=6.7 MLV=6.5 Successive P-onsets with increasing amplitude.
26.	eP	18 25 29	<u>Northeastern China</u> 37.74° N 114.92° E
	LmH	53.8	H = 18 14 22.6 h = normal MAG=4.9 (USCGS)
	LmV	59	D = 69.3° LmH:16s 6.3/ μ m LmV:15s 4.6/ μ m MLH=6.0 MLV=5.9
27.	eP	01 50 05	<u>Arabian Sea</u> 14.58° N 56.68° E H = 01 40 59.4 h = normal D = 51.1° Az = 324.6° (USCGS)
27.	eP	01 52 44	<u>Greece</u> 38.00° N 23.92° E H = 01 49 14.2 h = 179 km MAG=4.2 (USCGS) D = 15.4°

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Moxa

Day	Phase	h m s	Remarks
27.	+eP	19 06 21	<u>Costa Rica</u> 8.85° N 83.42° W
	+i	06 23.6	H = 18 53 41.3 h = 40 km MAG=5.6
	+i	06 28.5	D = 86.4° Az = 39.5° (USCGS)
	e	06 34	PV1:2.0s 126nm PV2:2.4s 216nm
	eSKS	16(50)	PV3:2.5s 244nm
	ePS	18(00)	MPV1=5.8 MPV2=5.9
	eSS	23 00	
	LmH	39	
	LmV	40	
27.	LmH	21 37	<u>Northeastern China</u> (USCGS)
28.	i	12 19 57.0	Explosion?
	i	20 24.0	
28.	eP	15 42 39.5	<u>Peru-Ecuador Border Region</u>
	eSKS	53(20)	3.92° S 80.88° W
	eS	53 52	H = 15 29 18.4 h = 19 km MAG=5.1 (USCGS)
	ePS	55(20)	D = 94.6°
	eSS	16 00 40	PV:2.0s 66.7nm
	LmH	22.5	LmH:20s 1.3/ μ m LmV:20s 2.3/ μ m
	LmV	22.5	MPV=5.7 MLH=5.4 MLV=5.7
		e 42 59 e 43 24	
28.	eP	17 56 06	<u>Peru-Ecuador Border Region</u> 4.04° S 80.83° W
	eS	18 07 20	H = 17 42 47.6 h = 52 km MAG=5.3 (USCGS)
	LmH	35.8	D = 94.6°
	LmV	36.0	PV:1.8s 62.5nm
		LmH:20s 1.2/ μ m LmV:20s 1.4/ μ m	
		MPV=5.7 MLH=5.4 MLV=5.5	
29.	eP	02 30 51	<u>Vulcan Islands</u> 23.66° N 142.10° E
	epP	31 14	H = 02 17 38.5 h = 79 km MAG=5.9 (USCGS)
	ePP	34 35	D = 94.2° h = 85 km
	eSKS	41 12	PV2:1.9s 56.6nm SKSH:7s 1.2/ μ m
	eS	41 48	SH:6.5s 1.0/ μ m
	eIPS	43 04	LmH:20s 2.2/ μ m LmV:18s 1.3/ μ m
	eSS	48 08	MLH=5.6 MLV=5.5
	LmH	03 11.6	
	LmV	16.5	

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Moxa

Day	Phase	h m s	Remarks
29.	eP	06 23 07	<u>Northeastern China</u> 37.42°N 114.87°E
	ePcP	23 29	H = 06 12 00.4 h = 34 km MAG=5.5 (USCGS)
	e	23 34	D = 69.3°
	eS	32 20	PV:2.0s 74.0nm
	eSa(4.58)	40.0	LmH:14.5s 6.8/ μm LmV:14s 6.2/ μm
	LmH	52.1	MPV=5.5 MLH=6.1 MLV=6.0
	LmV	55.5	
29.	1PKIKP	11 01 50.3	<u>Tonga Islands</u> 20.04°S 175.31°W
	ePKHKP	01 54	H = 10 42 15.1 h = 95 km MAG=5.1 (USCGS)
	epPKHKP	02 38	D = 148.7° h = 165 km
	esPKHKP	02 54	
29.	LmH	16 25	<u>Northeastern China</u> (USCGS)
30.	eP	04 27(20)	<u>Arabian Sea</u> 21.85°N 62.24°E
	e1P	27 26	H = 04 18 38.1 h = normal MAG=5.6
	eS	34 24	D = 48.7° Az = 319.0° (USCGS)
	eScS	37 12	PV2:1.6s 36.8nm
	eSSS	39 08	LmH:18s 0.9/ μm
	LmV	53.0	MPV2=5.2 MLH=5.8
	LmH	53.6	e 27 30 e 27 34 e 27 44
			The first motion of P is very small.
30.	e	08 06 40	
30.	eP	08 27 36	<u>Ryukyu Islands Region</u> 29.24°N 131.32°E
			H = 08 15 03.7 h = 20 km MAG=5.1 (USCGS)
			D = 84.1°
30.	eP	12 51 41	<u>Vancouver Island</u> 49.83°N 129.72°W
	e	51 59	H = 12 40 01.0 h = normal MAG=5.3 (USCGS)
	eS	13 01 20	D = 74.8°
	eScS	01 45	SH:9s 0.9/ μm
	LmH	25.2	LmH:16.5s 2.6/ μm LmV:13.5s 2.8/ μm
	LmV	26.6	MSH=5.9 MLH=5.7 MLV=5.8
30.	e	16 08 36	Explosion?

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Moxa

Day	Phase	h m s	Remarks
30.	ePKP2	21 01 25	<u>South of Kermadec Islands</u> 32.52°S 178.04°W
			H = 20 40 44.1 h = 16 km MAG=4.8 (USCGS)
			D = 160.6°
31.	ePKP	05 25 23.5	<u>New Hebrides Islands</u> 17.29°S 167.83°E
	e	25 28	H = 05 05 54.7 h = 34 km MAG=5.4 (USCGS)
	e	26 23	D = 141.6°
	e	27 31.5	LmH:16s 0.9/ μm LmV:14.5s 0.7/ μm
	ePP	28(34)	MLH=5.7 MLV=5.5
	LmV	06 34.8	
	LmH	35.5	
31.	iSg	11 42 47.5	Probably explosion.
31.	eP	17 16 39	
31.	eP	20 56 12.5	
	e	56 22	
	e	56 29.5	
31.	+eP	23 45 49.5	<u>Hindu Kush Region</u> 36.42°N 70.81°E
	e	45 51	H = 23 38 00.5 h = 200 km MAG=5.6 (USCGS)
	e	46 12	D = 44.0° h = 214 km
	epP	46 35	PV1:0.8s 30.4nm PV2:1.4s 38.0nm
	esp	46 58	MPV1=4.8
	eS	52 05	e 48 23 e 48 39
	eSS	55(30)	
31.	eP	23 51 02	PV:1.5s 35.0nm

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Moxa

Day	Phase	h m s	Remarks
1.	eP	03 02 55	<u>Rat Islands/Aleutian Is.</u>
	e	02 57	51.74°N 176.38°E
			H = 02 51 08.2 h = 73 km MAG=5.3
			D = 77.2° Az = 350.1° (USCGS)
1.	eS	03 59 32	<u>South Atlantic Ridge</u> 53.47°S 3.14°W
	ePS	04 01 00	H = 03 33 28.9 h = normal MAG=5.8 (USCGS)
	ePPS	01 56	D = 103.4°
	eSS	06 40	LmH:18s 1.3/um LmV:19s 1.2/um
	LmH	04 36.4	MLH=5.5 MLV=5.5
	LmV	35.5	
1.	eP	13 18 20	<u>Greece</u> 38.71°N 21.52°E
	e	18 28.5	H = 13 15 05.4 h = 43 km MAG=4.8
	e(PP)	18 31	D = 13.8° Az = 332.8° (USCGS)
	e	18 37	LmH:16s 4.1/um
	eLQ	21.3	MLH=4.6
	LmH	24.5	
1.	LmH	13 56	
2.	1P	02 05 30	<u>Oaxaca/Mexico</u> 16.45°N 97.40°W
	e	05 40	H = 01 52 38.3 h = 42 km MAG=5.6
	e	06 36	D = 89.0° Az = 37.0° (USCGS)
	LmH	46.5	LmH:19s 0.75/um LmV:17s 0.7/um
	LmV	47.9	MLH=5.2 MLV=5.2
2.	eSg	08 31 30	Explosion
	e	31 37	
2.	e(Pg)	11 57 14	Probably explosion.
	e(Sg)	57 29	
	e	57 31	
	e	57 45	
2.	eP	22 55 33	<u>Near East Coast of Honshu/Japan</u>
	eP	55 46	38.68°N 141.94°E
	LmH	23 34.5	H = 22 43 21.4 h = 39 km MAG=4.6 (USCGS)
	LmV	34.5	D = 81.0° h = 48 km
			PV:1.6s 39.5nm MPV=5.3

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Day	Phase	h m s	Remarks
2.	ePKP	22 58 45	<u>Tonga Islands</u> 16.02°S 173.36°W
			H = 22 39 10.8 h = normal MAG=4.4
			D = 145.2° Az = 354.4° (USCGS)
			PV:1.2s 31.8nm
3.	+IP	04 55 56.8	<u>Near East Coast of Honshu/Japan</u>
	eP	56 10	36.74°N 140.80°E
	eP	56 15	H = 04 43 41.1 h = 68 km MAG=5.7 (USCGS)
	i	56 22.0	D = 81.4° h = 48 km
	eS	05 06 06	PV1:1.5s 105nm PV2:1.5s 55.0nm
	LmH	35.8	PV3:1.8s 81.1nm
	LmV	37.5	LmH:14s 0.6/um LmV:15s 0.9/um
			MPV=5.8 MLH=5.2 MLV=5.3
			e 56 49 e 58 43 e 59 02.5 e 59 16
3.	e	05 15 12	
3.	eP	05 15 20	<u>Algeria</u> 36.15°N 2.91°E
	LmH	21.5	H = 05 11 39.0 h = normal MAG=4.3
	LmV	23.5	D = 15.8° Az = 20.7° (USCGS)
			LmH:12s 0.6/um LmV:10s 0.6/um
			MLH=4.1 MLV=4.3
3.	eP	11 39 39	<u>Greece</u> 38.97°N 21.48°E
	ePP	39 51	H = 11 36 24.8 h = 25 km MAG=5.1
	e	42 41	D = 13.6° Az = 332.4° (USCGS)
	eLi(3.73)	43(10)	LmH:12s 6.4/um LmV:12s 7.0/um
	eLg1(3.55)	43(30)	MLH=4.9 MLV=5.1
	eLg2(3.32)	44 00	e 39 48 e 40 00 e 40 14.5
	LmH	45.6	
	LmV	45.7	
3.	ePKP	16 14 55	<u>Fiji Islands</u> 16.26°S 177.01°W
			H = 15 55 20.4 h = normal MAG=4.9
			D = 145.0° Az = 350.4° (USCGS)
3.	eP	23 07 34	<u>Jan Mayen Island</u> 71.91°N 2.40°W
			H = 23 02 38.9 h = normal MAG=4.2 (USCGS)
			D = 22.3°

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Moxa

Day	Phase	h m s	Remarks
4.	e(P)	01 57 57.5	
4.	eP	02 29 06	<u>Andaman Islands Region</u> 11.85°N 92.59°E H = 02 17 18.1 h = normal MAG=5.0 (USCGS) D = 75.2°
4.	eP	03 03(23)	<u>Andaman Islands Region</u> 12.04°N 92.65°E
	e	03 26.5	H = 02 51 39.0 h = normal MAG=5.0 D = 75.1° Az = 319.4° (USCGS) PV2:1.5s 37.5nm MPV2:5.3
4.	ePKHKP	05 57 45	<u>West of Macquarie Island</u>
	ePKP2	57 58	54.67°S 146.22°E H = 05 37 49.7 h = normal MAG=5.4 D = 152.5° Az = 280.5° (USCGS)
4.	ePKP	06 36 39.5	<u>New Britain Region</u> 5.50°S 151.62°E H = 06 17 45.1 h = 47 km MAG=5.3 (USCGS) D = 124.0°
4.	eP	06 53 57	<u>Andaman Islands Region</u> 12.06°N 92.69°E
	e(pP)	54 03.5	H = 06 42 13.9 h = normal MAG=5.0
	e(PcP)	54 10	D = 75.1° Az = 319.7° (USCGS);
	e	54 25	(h = 22 km)
	eS	07 03 32	PV:1.6s 42.0nm (PP)V:1.5s 32.5nm
	LmH	27.0	(PcP)V:1.6s 47.3nm
	LmV	33.9	LmH:20s 1.8/um LmV:18s 2.3/um MPV=5.3 MLH=5.4 MLV=5.6
4.	e	10 52 23	
4.	eP	20 02 40	<u>El Salvador</u> 13.77°N 89.68°W
	epP	03 03	H = 19 50 07.6 h = 108 km MAG=5.5 D = 86.4° Az = 38.4° (USCGS); h = 92 km PV:1.6s 36.9nm MPV=5.1

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Moxa

Day	Phase	h m s	Remarks
4.	eP	20 55 10	<u>Azores Islands Region</u> 38.22°N 31.30°W H = 20 48 38.8 h = normal MAG=4.9 (USCGS) D = 32.5°
4.	e(P)	20 58 35	
5.	eP	05 09 35	<u>Kurile Islands</u> 43.97°N 147.70°E
	e	09 39.5	H = 04 57 36.5 h = normal MAG=5.0 (USCGS) D = 78.6°
	epP	09 58	ANUSSR gives: 45.0°N 147.3°E H = 04 57 49 h = 92 km D = 77.3°
			Our finding of pP-Phase coincides with depth-calculation of the ANUSSR.
5.	eP	06 19(10)	<u>Northern Rhodesia</u> 16.40°S 28.52°E
	e	19 15	H = 06 08 09.4 h = 27 km
	e	19 23	D = 68.4° Az = 348.5° (USCGS)
	e	19 40	e 20 09 e 20 44
5.	eP	09 03 34	<u>Honshu/Japan</u> 36.96°N 138.18°E
	LmH	40.6	H = 08 51 16.4 h = 4 km MAG=5.1
	LmV	41.5	D = 80.9° Az = 328.8° (USCGS) PV:1.6s 34.2nm LmH:14s 2.1/um LmV:14s 1.0/um MPV=5.2 MLH=5.7 MLV=5.4
5.	e	12 17 46	<u>Macquarie Island Region</u> 55.05°S 158.42°E
	e	17 52	H = 11 57 36.9 h = 5 km MAG=5.6 (USCGS)
	ePKP2	18 15	D = 159.6°
5.	LmH	17 10	<u>Northeastern China</u> 37.81°N 115.28°E
	LmV	14	H = 16 29 41.7 h = normal MAG=4.8 (USCGS) D = 69.3°
6.	eSg	00 50 36	Explosion.
6.	eP	02 00 15	<u>West Pakistan</u> 34.98°N 72.97°E
	e	00 27	H = 01 51 51.8 h = 38 km MAG=5.1
	LmH	19	D = 46.3° Az = 309.4° (USCGS)

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Day	Phase	h m s	Remarks
6.	ePKIKP	03 17 51	<u>Southeast Indian Rise</u> 45.79° S 96.13° E
	ePP	19 25	H = 02 59 01.7 h = normal MAG=5.8 (USCGS)
	eS	27 16	D = 120.7°
	ePS	29 18	LmH:17.5s $2.5/\mu\text{m}$ LmV:18s $3.6/\mu\text{m}$
	eSS	35 32	MLH=6.0 MLV=6.1
	eSSS	40	The phase interpreted as S is the diffracted S-wave around the core.
	LQ	47	
	LR	54	
	LmV	04 15	
	LmH	21	
6.	i(Pg)	14 41 56.5	Explosion.
	i(Sg)	42 16.0	(D = 1.5°)
6.	eP	19 58(20)	<u>Kyushu/Japan</u> 30.66° N 130.74° E
	eS	20 08 44	H = 19 45 59.2 h = 68 km MAG=5.0 (USCGS)
	e(SS)	14 20	D = 82.9°
	LmH	20 35.2	LmH:17s $2.0/\mu\text{m}$ LmV:14s $2.7/\mu\text{m}$
	LmV	40.2	MLH=5.6 MLV=5.8
6.	+iP	22 40 04.0	<u>Kodiak Island</u> 56.60° N 154.47° W
	i(pP)	40 11.5	H = 22 28 38.7 h = normal MAG=5.5
	e(sp)	40 14.5	D = 72.5° Az = 9.2° (USCGS);
	e	40 19	(h = 30 km)
	e	40 49	PV1:1.1s 60.0nm (pP)V:1.0s 30.4nm (sp)V:1.7s 50.0nm MPV=5.6
7.	LmH	01 16.2	<u>New Guinea Region</u> 1.78° S 134.22° E H = 00 14 55.9 h = 35 km MAG=5.1 (USCGS) D = 111.5° LmH:18s $1.1/\mu\text{m}$ MLH=5.6
7.	eP	03 29 11.5	<u>Southern Greece</u> 37.81° N 21.12° E
	e	29 14	H = 03 25 46.3 h = 36 km MAG=4.8
	e	29 18.5	D = 14.5° Az = 335.2° (USCGS)
	ePP	29 23	PV2:1.1s 22.2nm PV3:1.5s 45.0nm
	e	29 32	LmH:12s $1.1/\mu\text{m}$ LmV:10s $0.9/\mu\text{m}$
	i	29 44	MLH=4.2 MLV=4.3

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Day	Phase	h m s	Remarks
cont.			
7.	LmH	03 34.3	First motion of P is very small, followed by onsets with successive increasing amplitude.
	LmV	35.8	
7.	ePKP	05 22(30)	<u>Tonga Islands</u> 15.52° S 174.12° W
	e	22 35	H = 05 02 56.7 h = normal MAG=4.9 D = 144.7° Az = 353.7° (USCGS) PV2:1.3s 23.2nm
			First motion of PKP is very small with doubtful onset-time.
7.	ePn	08 08(56)	<u>Southern GFR</u> 48.2° N 9.1° E
	ePb	09 02	H = 08 08 10 h = 4 km (BCIS)
	iPg	09 07.0	D = 2.9°
	i	09 09.0	
	1Sn	09 29.5	
	1Sg	09 39.8	
7.	+iP	09 55 04.5	<u>Ryukyu Islands</u> 26.15° N 127.42° E
	1PcP	55 08.5	H = 09 42 32.1 h = 46 km MAG=5.7
	ipP	55 17.2	D = 84.9° Az = 324.9° (USCGS);
	eS	10 05 23	h = 46 km
	LmH	31.3	PV1:1.6s 105nm PV2:1.2s 31nm
	LmV	38.2	PV3:2.4s 31.8nm
			LmH:17s $2.3/\mu\text{m}$ LmV:15s $2.2/\mu\text{m}$ MPV=5.8 MLH=5.7 MLV=5.7
7.	ePn	10 13 53.0	<u>Explosion/GFR</u> 49.57° N 12.36° E
	e	14 08.5	H = 10 13 30.13 Yield: 4 t
	1Sg	14 10.0	(Institute for Exploration Geophysics, München)
			D = 1.2°
7.	ePKIKP	14 56 16.5	<u>South of Tonga Islands</u> 24.09° S 175.17° W
	ePKHKP	56 25	H = 14 36 29.1 h = normal MAG=5.2
	ePKP2	56 36.5	D = 153.0° Az = 350.5° (USCGS) ANUSSR gives: Tonga Islands 22.5° S 175.4° W
			H = 14 37 21 h = 489 km D = 151.4°

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Day	Phase	h m s	Remarks
7.	ePg	18 58(50)	<u>Piemont/Italy</u> 44.2°N 7.4°E
	e	59 15.5	H = 18 56 26 (BCIS)
	eSn	59 37	D = 7.1°
	eSg	19 00 22	
7.	ePn	19 40(42)	<u>Piemont/Italy</u> 44.2°N 7.4°E
	ePg	41 21	H = 19 38 59 (BCIS)
	iSn	41 57.0	D = 7.1°
	e(Sg)	42 54	e 40(50) e 41 11 e 42 16
8.	eP	00 06 52.5	<u>Sumatra</u> 1.9°S 100.5°E
			H = 23 53 46 (ANUSSR)
8.	+IP	01 58 20.0	<u>Near East Coast of Kamchatka</u>
	i	58 26.5	51.21°N 157.70°E
	i(pP)	58 34.0	H = 01 46 44.9 h = 47 km MAG=5.9
	ePP	02 01(12)	D = 74.5° Az = 338.4° (USCGS);
	ePPP	03(00)	(h = 53 km)
	IS	07 48	PV:5s 2.0 μm PV1:2.6s 6.80nm
	ePS	08 16	PV2:1.6s 168nm PV3:2.4s 284nm
	LmH	36.4	SH:16s 1.8 μm PSH:16s 3.2 μm
	LmV	36.4	LmH:16s 15 μm LmV:16s 19 μm
			MPV=6.5 MPV1=6.3 MSH=6.0 MLH=6.4
			MLV=6.5
8.	IP	02 32 28.5	
8.	eP	05 36 20	<u>Near East Coast of Kamchatka</u>
	e	36 37	51.19°N 157.79°E
			H = 05 24 44.6 h = 48 km MAG=5.3 (USCGS)
			D = 74.9°
			PV:1.6s 31.6nm
			MPV=5.2
8.	+IP	05 58 26.0	<u>North Atlantic Ocean</u> 52.72°N 33.23°W
	ei	58 29.5	H = 05 52 40.4 h = normal MAG=5.5
	ePP	59 12	D = 27.5° Az = 76.1° (USCGS)
	eS	06 03 07	PV:1.4s 85.6nm
	ei	03 48	LmH:15s 3.0 μm LmV:14s 2.8 μm

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Day	Phase	h m s	Remarks
cont.			
8.	LmH	06 08.0	MPV=5.3 MLH=5.0 MLV=5.1
	LmV	09.6	
8.	eP	09 30 32	<u>Kodiak Island</u> 56.86°N 151.96°W
	e(pP)	30 38	H = 09 19 09.6 h = normal MAG=4.7
	e(sP)	30 40	D = 72.0° Az = 10.9° (USCGS);
	e(PoP)	30 49	(h = 22 km)
	LmV	10 09	
	LmH	13	
8.	e(P)	09 52 12	
8.	i(PKIKP)	10 51(12)	<u>Salomon Islands</u> 8.21°S 156.38°E
-i		51 19.5	H = 10 32 06.9 h = 31 km MAG=5.1
			D = 128.6° Az = 332.0° (USCGS)
			The first onset is doubtful, the second onset small but very clear.
8.	ePKP	11 29 54	<u>Samoa Islands</u> 14.96°S 175.31°W
	e	30 00.5	H = 11 10 21.5 h = normal MAG=5.2
	e	30 11.5	D = 144.0° Az = 352.5° (USCGS)
	LmH	12(32)	
	LmV	(32)	
8.	eP	13 51 25	<u>Eastern Mediterranean Sea</u> 35.83°N 30.87°E
	e	51 30.5	H = 13 46 49.8 h = 38 km MAG=4.5
	e	51 38	D = 20.3° Az = 322.8° (USCGS)
	LmH	58.6	PV1:2.2s 68.2nm PV2:1.7s 50.0nm
	LmV	14 00.6	PV3:2.2s 96.3nm
			MPV1=4.5
			BCIS gives for h = 100 km.
8.	LmH	15(15)	<u>Easter Island Region</u> 26.23°S 114.37°W
	LmV	(16)	H = 14 07 53.9 h = normal MAG=5.4 (USCGS)
			D = 132.5°
8.	-eP	22 22 23	<u>Kodiak Island Region</u> 56.78°N 151.89°W
	e	22 29	H = 22 10 59.3 h = normal MAG=5.1
	e	22 35	D = 72.1° Az = 11.0° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
8.	e(PcP)	22 22 39.5	PV:1.4s 57.1nm
	eS	31 40	LmH:17s 1.4/ μ m
	LmH	56.9	MPV=5.5 MLH=5.3
	LmV	23 01.3	e 22 46 e 23 01.5 e 23 11
8.	e	23 22 18	<u>Iceland</u> 67.49°N 18.72°W H = 23 17 10.8 h = normal MAG=4.4 D = 22.6° Az = 123.2° (USCGS) First motion of P, which must be about 9 s earlier, is not detectable.
8.	e(P)	23 50 24	
8.	eP	23 58 37	<u>Near Islands/Aleutian Is.</u>
	epP	58 48	52.32°N 173.51°E H = 23 46 50.8 h = 45 km MAG=4.9 (USCGS) D = 76.2° h = 41 km
9.	+eP	02 47 03.3	<u>Costa Rica</u> 9.44°N 84.18°W
	epP	47 13.5	H = 02 34 23.0 h = 40 km MAG=5.3 D = 86.4° Az = 39.4° (USCGS); h = 38 km PV:1.6s 79.0nm MPV=5.7
9.	+eIP	02 54 49.5	<u>Costa Rica</u> 9.59°N 84.14°W
-ipP		54 58.0	H = 02 42 08.7 h = 30 km MAG=5.7
ePP		58(08)	D = 86.3° Az = 39.4° (USCGS);
es		03 05 25	h = 31 km
e		08.0	PV:1.9s 267nm
ess		11.0	LmH:18s 1.8/ μ m LmV:18s 1.5/ μ m
esss		14.5	MPV=6.1 MLH=5.6 MLV=5.6
LmH		03 35.4	
LmV		35.8	
9.	ePKIKP	15 08 49	<u>New Hebrides Islands</u> 14.05°S 166.68°E
	ePP	11 45	H = 14 49 22.8 h = 47 km MAG=5.4
	eSKP	12 19	D = 138.3° Az = 336.2° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
9.	LmH	16 11.5	
	LmV	12	
9.	iP	19 02 44	<u>Southern Alaska</u> 60.22°N 147.15°W
	epP	02 51.5	H = 18 51 45.0 h = 34 km MAG=4.7 (USCGS) D = 68.3° h = 29 km PV2:1.1s 26.7nm 1P is a small-amplitude precursor.
9.	+eP	20 20 02.5	<u>Kodiak Island Region</u> 56.66°N 152.03°W
	e	20 05	H = 20 08 38.6 h = normal MAG=5.5
	e	20 09.5	D = 72.2° Az = 10.9° (USCGS)
	e	20 39	PV:1.1s 40.0nm
	LmH	56	MPV=5.5
	LmV	59	
9.	eP	20 29 09	<u>Kodiak Island Region</u> 56.56°N 152.22°W
			H = 20 17 44.5 h = normal MAG=5.1 (USCGS) D = 72.1°
10.	eP	10 51 34	<u>Near Islands/Aleutian Is.</u> 53.08°N 171.00°E
			H = 10 39 51.0 h = 20 km MAG=5.2 D = 75.2° Az = 346.6° (USCGS)
10.	e	16 54(48)	<u>Near Coast of Central Chile</u> 31.47°S 71.21°W
	eIPP	55 08	H = 16 36 14.6 h = 64 km MAG=5.7 (USCGS)
	e	55 48	D = 109.3°
	ePS	17 04 32	LmH:18s 2.1/ μ m LmV:18s 2.5/ μ m
	eSS	10.5	MLH=5.7 MLV=5.8
	eSSS	14.3	
	LmH	39.6	First P-onset, which must be approximate
	LmV	39.6	10 s earlier than e 16 54(48), is not detectable.
10.	e(P)	17 06 15	
10.	e(P)	22 39(16)	<u>Off Coast of Northern California</u>
	e	39 25	41.41°N 125.51°W

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Day	Phase	h m s	Remarks
cont.			
10.	e	22 39 31	H = 22 27 01.8 h = normal MAG=5.6 (USCGS)
	LmH	23 15	D = 80.8°
			Onsets of P-waves are very small and onset-time of the first motion is doubtful.
11.	eP	16 17 27.5	<u>Near Islands/Aleutian Is.</u> 52.51°N 172.97°E H = 16 05 41.6 h = 29 km MAG=5.2 (USCGS) D = 76.2°
11.	eP	16 50 49	<u>Afghanistan-USSR Border Region</u>
	epP	50 55.5	38.84°N 70.61°E
	ePP	52 32	H = 16 42 53.5 h = 29 km MAG=4.8 (USCGS)
	LmH	17 10.5	D = 42.5° h = 30 km
	LmV	10.5	PV1:2.1s 58.3nm PV2:1.8s 56.3nm LmH:13s 1.1/um LmV:12s 1.2/um MPV=5.1 MLH=4.9 MLV=5.0
11.	eP	17 30 29	<u>Michoacan/Mexico</u> 18.35°N 102.31°W
	epP	30 38	H = 17 17 33.8 h = 72 km MAG=5.7 (USCGS)
	esP	30 43	D = 90.4° h = 35 km
	eS	41 28	PV:2.2s 155nm
	LmH	18 13.3	LmH:17s 0.8/um LmV:16s 1.0/um
	LmV	13.4	MPV=6.0 MLH=5.2 MLV=5.4
11.	eP	18 37 34	<u>Kodiak Island Region</u> 57.15°N 153.46°W
	e(pP)	37 39	H = 18 26 11.8 h = normal MAG=4.9 (USCGS)
	e	37 48	D = 72.1° (h = 19 km) PV1:1.0s 21.8nm PV2:1.3s 25.6nm MPV=5.2
11.	+IP	23 11 48.0	<u>Kodiak Island Region</u> 56.65°N 151.97°W
	ipP	11 53.0	H = 23 00 24.0 h = normal MAG=5.4 (USCGS)
	isP	11 54.8	D = 72.6° h = 19 km
	iS	21 12	PV:1.8s 144nm SH:5s 0.8/um
	eSS	26 00	LmH:16s 1.4/um LmV:17.5s 2.2/um
	LmV	50.7	MPV=5.8 MSH=6.1 MLH=5.4 MLV=5.5
	LmH	53.7	

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Day	Phase	h m s	Remarks
12.	e(Pg)	06 45 39	<u>Probably Italy</u>
	e(Sn)	46 18	(D = 6.3°)
	eSg	47 04	
12.	e	12 36 30	<u>Southern GFR</u> 47.8°N 8.7°E
	e	36 37	H = 12 34 48 (BCIS)
	eSg	36 43	D = 3.4°
12.	ePKP	23 34 56	<u>New Hebrides Islands</u> 17.89°S 167.97°E
	e	35 03	H = 23 15 29.6 h = 30 km MAG=5.3
			D = 142.3° Az = 335.3° (USCGS)
12.	ePKIKP	23 56(22)	<u>Central Chile</u> 38.07°S 72.96°W
	e	56 28	H = 23 37 42.1 h = 44 km MAG=5.7 (USCGS)
	ePP	57 22	D = 115.2°
	ePPP	59 44	PV:10s 0.8/um SH:20s 1.3/um
	eSKS	00 03 10	PSH:20s 5.3/um PSV:20s 3.5/um
	eSKKS	04 18	PPSV:22s 4.0/um
	eS	05 08	LmH:18s 18/um LmV:18s 21/um
	eSP	07 05	MLH=6.7 MLV=6.8
	ePS	07 10	e 56 45.5 e 57 24 e 57 41 e 57 55
	ePPS	08 20	The phase interpreted as S is the diffracted S around the core.
	eSS	13 12	
	LmH	45.3	
	LmV	45.7	
13.	eP	00 43 26	<u>Kodiak Island</u> 56.81°N 151.82°W
			H = 00 31 58.2 h = normal MAG=4.8 (USCGS)
			D = 72.3°
13.	ePKIKP	03 53 54	<u>Near Coast of Central Chile</u>
	ePP	54 55	38.20°S 73.16°W
	ePPP	57 18	H = 03 35 16.3 h = 40 km MAG=5.8 (USCGS)
	eSKS	04 00 50	D = 115.2°
	eSKKS	02 08	LmH:19s 4.4/um LmV:18s 4.0/um
	ePS	04 44	MLH=6.1 MLV=6.0
	eSS	10 45	e 54 54 e 54 48 e 55 07
	LmH	43.0	
	LmV	45.7	

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Day	Phase	h m s	Remarks
13.	+IPKIKP	04 46 41	<u>South of Fiji Islands</u> 23.58° S 179.85° W
	ePKHGP	46 47	H = 04 27 54.8 h = 550 km MAG=5.2 (USCGS)
	+IPKP2	46 58.5	D = 151.6° h = ca. 580 km
	ipPKP	48 59.2	PV1:1.5s 32.5nm PV2:1.4s 81.0nm
	ePP	50 47	PV3:1.4s 47.5nm
			e 46 51
14.	iPg	13 06 29.5	Explosion
	iSg	06 46.0	D = 1.2°
14.	iP	18 55 59.0	<u>Crete</u> 34.51° N 24.02° E
	e	56 02.5	H = 18 51 45.8 h = normal MAG=5.0 (USCGS)
	LmH	19 03.1	D = 18.5°
	LmV	03.6	LmH:13s 2.6/ μ m LmV:12s 1.5/ μ m
			MLH=4.7 MLV=4.7
14.	+eP	21 14 11	<u>Afghanistan-USSR Border Region</u>
	e	14 15	38.86° N 70.61° E
	1PP	15 54	H = 21 06 17.4 h = normal MAG=5.2 (USCGS)
	LmH	34	D = 42.2°
	LmV	35	PV:1.4s 42.8nm
			MPV=5.2
15.	ePKHGP	06 54 19	<u>Tonga Islands</u> 21.68° S 174.35° W
	ePKP2	54 29	H = 06 34 31.2 h = 53 km MAG=4.5
			D = 150.7° Az = 352.2° (USCGS)
15.	iPg	14 09 44.5	<u>Explosion/Southern GDR</u> 51.4° N 12.9° E
	eSg	10 01	D = 1.2°
15.	eP	18 11 53	<u>Near East Coast of Honshu/Japan</u>
	epP	12 06	36.63° N 140.95° E
			H = 17 59 35.0 h = 53 km MAG=4.8 (USCGS)
			D = 82.2° h = 48 km
16.	+IP	01 38 38.0	<u>Kodiak Island Region</u> 56.98° N 153.56° W
	e	38 42	H = 01 27 15.3 h = normal MAG=5.7 (USCGS)
	e(pP)	38 53	D = 72.5° (h = 59 km)
	ePP	41 16	PV1:1.6s 248nm PV2:1.5s 190nm
	eS	48 00	(pP)V:2.0s 282nm SH:15s 3.2/ μ m
	ePS	48 36	LmH:17s 4.8/ μ m LmV:17s 5.6/ μ m

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Day	Phase	h m s	Remarks
cont.			
16.	eSS	01 52 55	MPV=6.1 MSH=6.2 MLH=6.1 MLV=6.1
	LmH	02 14.1	
	LmV	19.6	
16.	+IP	10 25 53.0	<u>Off East Coast of Honshu/Japan</u>
	epP	26 06	34.98° N 141.48° E
	e	26 15	H = 10 13 27.7 h = 63 km MAG=5.2 (USCGS)
	LmH	11 05.7	D = 83.8° h = 50 km
	LmV	09.1	PV:1.5s 25.0nm
			LmH:16s 2.7/ μ m
			MPV=5.1 MLH=5.7
16.	eP	11 43 13.5	<u>Dominican Republic</u> 18.99° N 70.44° W
	epP	43 27	H = 11 32 01.1 h = 46 km MAG=4.7
			D = 70.6° Az = 42.0° (USCGS); h = 50 km
16.	iPg	14 11 51.0	<u>Explosion/Southern GDR</u> 51.25° N 12.66° E
	iSg	12 05.0	D = 1° Yield: 5 t
16.	+IP	14 52 29.5	<u>Republic Congo</u> 0.84° N 29.90° E
	LmH	15 13.5	H = 14 43 20.5 h = normal MAG=5.3 (USCGS)
			D = 51.8°
16.	+IPKIKP	15 42 15.5	<u>Fiji Islands Region</u> 21.08° S 178.62° W
	IPKHP	42 21.5	H = 15 23 29.3 h = 511 km MAG=5.4
	e	42 24.5	D = 149.4° Az = 347.2° (USCGS)
	e(PKP2)	42 32.5	PV2:1.0s 87.0nm
			e 42 27 e 42 37
17.	e	06 10 40	
17.	ePKP	06 57 44	<u>Tonga Islands</u> 15.23° S 173.18° W
	e	57 49	H = 06 38 06.0 h = normal MAG=4.8
	e	59 27.5	D = 144.5° Az = 354.7° (USCGS)
18.	eP	08 22 53	<u>Eastern Gulf of Aden</u> 12.92° N 48.31° E
	e	22 57	H = 08 14 18.8 h = 57 km MAG=5.4
	ePP	24 48	D = 48.0° Az = 329.2° (USCGS)
	e	24 51	PV:1.6s 34.2nm

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Day	Phase	h m s	Remarks
cont.			
18.	eS	08 29 50	MPV=5.2
	LmH	46.3	
	LmV	46.3	
18.	eP	10 02 43	Greece 39.0°N 21.9°E
	LmH	08.5	H = 09 59 25 (BCIS)
	LmV	08.5	D = 13.8°
			LmV:12s 0.8/um
			MLV=4.0
18.	ePKHKP	10 52 50	Fiji Islands Region 20.06°S 178.73°W
			H = 10 34 04.0 h = 540 km MAG=4.4
			D = 148.4° Az = 347.4° (USCGS)
18.	e(P)	14 48 26	PV:1.4s 16.7nm
19.	e	15 15 37	
19.	e	15 44	
19.	I	23 10 10.0	
19.	ePKP2	23 11(17)	Kermadec Islands 31.67°S 179.51°W
			H = 22 51 00.9 h = 169 km MAG=4.6 (USCGS)
			D = 159.3°
20.	ePP	02 50 48	Mariana Islands 18.84°N 146.99°E
	e	50 56	H = 02 32 49.7 h = 12 km MAG=5.0
	eSKS	57(24)	D = 100.5°
	ePS	59(52)	LmH:16s 1.2/um LmV:16s 1.9/um
	eSS	03 05 10	MLH=5.5 MLV=5.7
	LmH	38.0	
	LmV	37.5	
20.	ePP	06 18 33	Mariana Islands 18.95°N 146.79°E
	LmH	07 05.3	H = 06 00 39.4 h = normal MAG=5.1 (USCGS)
	LmV	05.3	D = 100.3°
			LmH:17s 1.3/um LmV:16s 1.6/um
			MLH=5.5 MLV=5.6

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Day	Phase	h m s	Remarks
20.	LmH	14 09	Northeastern China 37.02°N 115.14°E
	LmV	11.5	H = 13 28 10.9 h = normal MAG=4.8 (USCGS)
			D = 69.8°
			LmH:16s 0.6/um LmV:16s 0.6/um
			MLH=5.0 MLV=5.0
20.	ePP	14 19 24	Mariana Islands 18.83°N 146.91°E
			H = 14 01 26.7 h = 28 km MAG=5.2 (USCGS)
			D = 100.5°
20.	eP	14 42 32	Northeastern China 37.11°N 114.78°E
	LmH	15 14.8	H = 14 31 25.6 h = normal MAG=4.9
	LmV	14.8	D = 69.7° Az = 318.6° (USCGS)
			LmH:14s 1.25/um LmV:14s 1.5/um
			MLH=5.3 MLV=5.4
20.	e	14 47 04	
20.	ePP	16 44 11	Mariana Islands 18.80°N 146.88°E
	LmH	17 31.0	H = 16 26 21.2 h = 55 km MAG=5.4 (USCGS)
	LmV	31.0	D = 100.5°
			PPV:2.6s 139nm
			LmH:16s 2.3/um LmV:16s 3.0/um
			MPPV=6.1 MLH=5.8 MLV=5.9
20.	eP1	16 47 42.5	Eastern Caucasus 41.68°N 48.19°E
	IP2	47 49.0	H = 16 42 03.7 h = 19 km MAG=5.5
	IP3	47 53.0	D = 26.6° Az = 302.2° (USCGS)
	eS	52 12	PV2:1.2s 60.5nm PV3:1.4s 186nm
	eSS	53(24)	LmH:16s 9.7/um LmV:18s 10/um
	eLg1(3.44)	56(24)	MPV2=5.2 MPV3=5.6 MLH=5.4 MLV=5.5
	eLg(3.18)	57(36)	Multiple P-phases with successive
	LmH	59.2	increasing amplitude. P2 and P3 are
	LmV	17 00.0	considerably greater than P1. Well
			developed higher modes of surface waves.
21.	+IP	04 05 47.0	Eastern Kazakh SSR 49.81°N 78.05°E
	ePn	07 18.5	H = 03 57 58.0 h = 0 km MAG=5.5
	ePP	07(25)	D = 41.2° Az = 297.6° (USCGS)
			PV:0.7s 95.5nm MPV=5.8
			Underground explosion.

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Day	Phase	h m s	Remarks
21.	eP	06 49 47	<u>Crete</u> 34.85°N 25.96°E
	LmH	59.0	H = 06 45 28.6 h = 52 km MAG=5.1
	LmV	59.0	D = 18.9° Az = 330.9° (USCGS)
			PV:2.2s 63.7nm
			LmH:13s 1.1/ μm LmV:13s 1.4/ μm
			MLH=4.4 MLV=4.6
21.	eP	15 57 51	<u>Near East Coast of Honshu/Japan</u>
	epP	57 58	36.15°N 141.77°E
	eS	16 08 10	H = 15 45 25.4 h = 30 km MAG=5.5
	eSS	13 36	D = 83.1° Az = 330.6° (USCGS); h = 26 km
	LmH	39.7	pPV:2.6s 153nm
	LmV	41.0	LmH:14.5s 11.6/ μm LmV:15s 10.9/ μm
			MLH=6.5 MLV=6.4
21.	ePKHKP	16 31 34.5	<u>Fiji Islands Region</u> 20.37°S 177.99°W
			H = 16 12 45.1 h = 511 km MAG=4.5
			D = 148.8° Az = 348.1° (USCGS)
			PV:1.1s 26.7nm
21.	eP	17 49 17	<u>Off East Coast of Honshu/Japan</u>
R	epP	49 25	35.53°N 142.03°E
	e(S)	59 35	H = 17 36 50.0 h = 46 km MAG=5.1
	LmH	18 30.2	D = 83.7° Az = 330.8° (USCGS); h = 29 km
	LmV	32.5	pPV:2.0s 51.8nm
			LmH:14s 3.6/ μm LmV:13s 4.8/ μm
			MLH=5.9 MLV=6.1
			The amplitude of pP-onset is approximately 2.5 times greater than the amplitude of P.
22.	e(P)	03 03 20	<u>Southwestern Russia</u> 47.86°N 47.72°E
			H = 02 58 03.6 h = normal MAG=4.9
			D = 23.6° Az = 290.3° (USCGS)
22.	e	03 27 26	<u>Near Coast of Central Chile</u>
	eS	34.0	37.81°S 73.37°W
	ePS	36 00	H = 03 06 32.3 h = 18 km MAG=5.7 (USCGS)
	eSS	42 08	D = 115.2°
	LmH	04 16.2	LmH:18s 3.2/ μm LmV:18s 5.2/ μm

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Day	Phase	h m s	Remarks
cont.			
22.	LmV	04 16.2	MLH=6.0 MLV=6.2 The first motion of P, which must be approximately 10 s earlier, than e 03 27 26 is not detectable. The phase interpreted as S is the diffracted S-phase around the earth core.
22.	+iP	10 27 12.5	<u>Kodiak Island Region</u> 56.89°N 151.79°W
	iP	27 18	H = 10 15 50.6 h = normal MAG=4.9 (USCGS)
	e(PcP)	27 29	D = 71.8° h = 21 km
			PV1:1.1s 26.7nm PV2:1.3s 30.2nm
			PV3:1.4s 23.8nm
			MPV=5.3
22.	e	11 26 33	
	e	26 38	
22.	1Pg	15 05 20.5	<u>Explosion/Hilders, GFR</u> 10.04°E 50.54°N
	iSg	05 35.5	H = 15 05 00.0
			D = 1.1° Yield: 12 t
22.	ePKP	17 13 48	<u>Fiji Islands Region</u> 17.99°S 178.44°W
			H = 16 55 07.9 h = 542 km MAG=4.2 (USCGS)
			D = 146.4°
22.	e	23 18 21	
22.	-1P	23 38 41	<u>Kodiak Island Region</u> 57.52°N 152.05°W
	i(pP)	38 47.5	H = 23 27 20.5 h = 22 km MAG=5.9 (USCGS)
	i	38 54.8	D = 71.5° (h = 25 km)
	ePP	41 26	PV1:1.9s 440nm PV2:2.0s 519nm
	iS	47 57	PV3:1.5s 150nm
	eSS	52.5	LmH:18s 1.8/ μm LmV:16s 2.3/ μm
	LmH	00 12.3	MPV=6.3 MLH=5.4 MLV=5.6
	LmV	16.6	
23.	eP	00 23 34	<u>Northern Celebes</u> 0.90°S 122.43°E
	ePPKP	27 46	H = 00 09 34.4 h = 45 km MAG=6.0
	iPP	27 56	D = 103.8° Az = 322.2° (USCGS)

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Day	Phase	h m s	Remarks
<u>cont.</u>			
23.	eSKS	00 34 16	PV:2.5s 128nm
	eS	35 16	LmH:23s 18.3/ μ m LmV:20s 15.4/ μ m
	ePKKP	39 33	MLH=6.6 MLV=6.6
	eSS	42 40	e 23 39 e 24 31 e 26 55 e 27 08
	LmH	01 11.2	1 28 04.0
	LmV	18.6	PPKP is probably reflected below the earth crust.
23.	eP	01 08 27	<u>Greenland Sea</u> 73.63°N 8.65°E
	e	08 36	H = 01 03 23.0 h = normal MAG=4.6 D = 23.1° Az = 175.2° (USCGS)
23.	e(PKIKP)	03 48(08)	<u>Tonga Islands</u> 23.78°S 175.66°W
	e(PKHKP)	48 16	H = 03 28 24.7 h = 54 km MAG=5.1
	e(PKP2)	48 27	D = 152.6° Az = 349.9° (USCGS)
23.	ePKIKP	07 09 49	<u>Cook Strait/New Zealand</u> 41.56°S 174.37°E
	e	10 18	H = 06 49 38.6 h = 15 km MAG=5.8
	e	10 46	D = 165.0° Az = 313.1° (USCGS)
	ePKP2	10 50	e 11 18 e 11 35
23.	eP	09 10 38.5	<u>Northern Celebes</u> 0.47°S 122.18°E
	i	10 47.0	H = 08 56 45.8 h = 79 km MAG=5.8
	ePP	14 59	D = 103.3° Az = 322.2° (USCGS)
	ePPP	17 16	LmH:16s 2.8/ μ m LmV:20s 3.8/ μ m
	eS	22 24	MLH=5.9 MLV=5.9
	eSS	29 44	e 11 39 e 14 18.5 e 15 11 e 15 21
	eSSS	33 48	
	LmV	10 04.5	
	LmH	06.5	
23.	eP	11 11 20	<u>Greece</u> 39.08°N 21.42°E
	e	11 31	H = 11 08 10.1 h = 41 km MAG=4.5
	e	11 40.5	D = 13.5° Az = 332.3° (USCGS)
	LmH	(16)	
23.	eP	18 16 03	<u>Fox Islands/Aleutian Is.</u> 52.78°N 167.82°W
			H = 18 05 12.6 h = normal MAG=4.8 (USCGS) D = 76.7°

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Day	Phase	h m s	Remarks
23.	ePKHKP	18 40(41)	<u>Tonga Islands</u> 23.84°S 175.46°W
	ePKP2	40 54	H = 18 20 47.5 h = normal MAG=4.7
	e	41 09	D = 152.7° Az = 350.2° (USCGS)
24.	ePKHKP	07 21 03	<u>Fiji Islands Region</u> 21.05°S 179.24°W
	ePKP2	21 10	H = 07 02 24.2 h = 642 km MAG=4.9 (USCGS) D = 149.3°
			PV1:1.2s 34.1nm PV2:1.1s 20.0nm
25.	iPKP	08 53 28.0	<u>Tonga Islands</u> 19.01°S 175.11°W
			H = 08 34 06.3 h = 223 km MAG=4.4 D = 148.0° Az = 351.9° (USCGS)
25.	eP	09 32 14.5	<u>Ascension Island</u> 6.88°S 11.72°W
			H = 09 22 04.9 h = normal MAG=4.5 D = 60.7° Az = 16.8° (USCGS)
25.	ePKIKP	11 00 39.5	<u>Fiji Islands Region</u> 21.03°S 178.71°W
	ePKHKP	00 44	H = 10 41 58.2 h = 561 km MAG=5.3
	ePKP2	00 52	D = 149.3° Az = 347.1° (USCGS) PV2:1.6s 105nm
25.	eP	14 43 52	
	e	43 54.5	
25.	eP	23 30 28.5	<u>Taschkent/Uzbek SSR</u> 41.20°N 69.30°E
	e	31 36	H = 23 22 52.6 h = normal MAG=5.0
	LmH	48	D = 40.3° Az = 303.7° (USCGS)
	LmV	50	PV:1.5s 20.0nm LmH:17s 0.8/ μ m MPV=4.8 MLH=4.7
26.	eP	10 56 32	<u>Burma</u> 24.81°N 96.46°E
	e	56 35.5	H = 10 45 32.8 h = normal MAG=4.8
	LmH	11 25	D = 68.1° Az = 316.9° (USCGS)
26.	ePKHKP	19 52 44.5	<u>Fiji Islands Region</u> 20.01°S 178.30°W
	ePKP2	52 50	H = 19 34 00.3 h = 551 km MAG=4.6 (USCGS) D = 148.3°

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Day	Phase	h m s	Remarks
27.	eP	00 44 15.5	<u>Kurile Islands</u> 46.98°N 152.71°E H = 00 32 26.6 h = 65 km MAG=5.0 (USCGS) D = 76.9°
27.	e	07 37 13	
27.	eP	19 54 15	<u>Turkey</u> 38.17°N 42.68°E
	e	54 17.5	H = 19 48 49.8 h = 25 km MAG=4.9 (USCGS)
	e	54 20.5	D = 25.6°
	ePP	55 00	PV2:1.5s 45.0nm PV3:1.6s 60.5nm
	e	56 06	SH:15s 2.4/ μm
	eS	58 48	LmH:17s 3.5/ μm LmV:18s 4.0/ μm
	e	59 40	MPV2=4.9 MPV3=5.0 MSH=5.5 MLH=5.0
	LmH	20 05.2	MLV=5.2
	LmV	06.3	P is multiple with a very small first-onset, followed by much larger phases.
27.	ePKHKP	21 52 17.5	<u>South of Fiji Islands</u> 25.16°S 179.78°E
	ePKP2	52 31	H = 21 33 17.7 h = 499 km MAG=4.5 (USCGS) D = 152.8°
28.	1PKHKP	00 36 35	<u>Fiji Islands Region</u> 21.79°S 179.23°W H = 00 17 51.1 h = 600 km MAG=4.8 D = 150.0° Az = 346.2° (USCGS)
28.	ePKP2	01 36 22	<u>Auckland Island Region</u> 49.05°S 164.15°E
	e	36 28	H = 01 15 34.2 h = 3 km MAG=5.8 (USCGS)
	e	37 14	D = 162.3°
28.	eP	10 52(03)	<u>Near Coast of Oaxaca/Mexico</u>
	e	52 13.5	15.25°N 94.89°W H = 10 39 07.3 h = normal MAG=5.1 (USCGS) D = 88.5° The first onset of P must be 6 s earlier than e(P).
28.	eP	11 50(44)	<u>Greece</u> 39.02°N 21.38°E
	e	55 34	H = 11 47 34.1 h = 54 km MAG=4.3 (USCGS) D = 13.6°

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Day	Phase	h m s	Remarks
28.	1Pg	14 20 28.1	<u>Explosion/Southern GDR</u> 51.29°N 12.73°E
	1Sg	20 44	D = 1.2° Yield: 3.3 t
28.	ePKP	17 16 06	<u>Tonga Islands</u> 19.06°S 173.55°W
	e	16 11	H = 16 56 20.0 h = 27 km MAG=5.2 (USCGS)
	e	16 17	D = 148.6°
	e	16 30	PV:1.5s 35.0nm
	LmH	18 26.8	LmH:18s 1.6/ μm LmV:18s 1.6/ μm
	LmV	26.8	MLH=5.9 MLV=5.8
			ANUSSR gives: Cook Islands Region 11.3°S 167.5°W
			H = 16 56 38 MAG=5½
			D = 140.8°
28.	+ePKP	17 33 17	<u>Tonga Islands</u> 19.30°S 173.48°W
	LmH	18 46	H = 17 13 31.6 h = normal MAG=5.2 (USCGS)
	LmV	46	D = 148.3°
			PV:1.8s 75.0nm
			LmH:17s 0.9/ μm LmV:17s 1.05/ μm
			MLH=5.6 MLV=5.7
28.	e	18 19 41	<u>Probably Carlsberg Ridge</u> (USCGS)
	e	19 56	The P first motion, which must be 18 s earlier, is not detectable.
28.	eP	22 42 11	<u>Off Coast of Oregon</u> 43.97°N 127.76°W
	e	42 17	H = 22 30 05.1 h = 18 km MAG=5.0 (USCGS)
			D = 79.3°
29.	-1P	01 58 25	<u>South of Alaska</u> 53.84°N 157.78°W
	-ipP	58 35	H = 01 46 42.6 h = normal MAG=5.2 (USCGS)
	e	58 40	D = 75.8° h = 38 km
	LmH	02(25)	PV1:1.4s 66.6nm PV2:1.2s 36.4nm
			MPV=5.6
29.	ePg	11 21 06	<u>Explosion/Southern GDR</u> 51.29°N 12.73°E
	eSg	21 20	D = 1.1° Yield: 2.4 t

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Day	Phase	h m s	Remarks
29.	e	22 55 55	Near earthquake?
	e	57 03	
	e	57 12	
29.	eP	23 15 14.5	<u>Off East Coast of Kamchatka</u>
	e	15 18	52.22°N 160.53°E
	e	15 32	H = 23 03 39.7 h = normal MAG=4.5 (USCGS)
	LmH	(47)	D = 74.6°
			PV:1.3s 18.6nm
			MPV=5.1
30.	eP	13 49 02	<u>Kirgiz SSR</u> 41.01°N 72.06°E
	ePP	50(41)	H = 13 41 09.1 h = 19 km MAG=5.1
	LmH	14 08.2	D = 42.1° Az = 304.3° (USCGS)
	LmV	08.2	PV:1.7s 27.8nm
			LmH:12s 2.8/μm LmV:12s 4.0/μm
			MPV=4.9 MLH=5.4 MLV=5.6
30.	LmH	13(58)	<u>Off Coast of Jalisco/Mexico</u>
	LmV	(58)	18.83°N 106.70°W
			H = 13 01 18.5 h = 54 km MAG=5.2 (USCGS)
			D = 92.3°
			LmH:16s 0.8/μm LmV:14s 0.7/μm
			MLH=5.3 MLV=5.3

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Moxa

Day	Phase	h m s	Remarks
1.	e	10 34 07	
1.	LmH	14 28	<u>Near North Coast of New Guinea</u>
	LmV	29	3.51°S 142.98°E
			H = 13 14 47.4 h = normal MAG=4.6 (USCGS)
			D = 117.8°
1.	-1P	16 35 57.4	<u>Peru-Brazil Border Region</u>
	+1pP	36 37.0	8.49°S 74.25°W
	esP	36 56	H = 16 22 56.3 h = 165 km MAG=5.7 (USCGS)
	e(pPP)	40 12	D = 94.0° h = 158 km
	eiSKS	46 20	PV:8s 0.75/μm PV1:1.8s 150nm
	eSKKS	46 30	pPV:1.8s 81.2nm sPV:2.0s 74.2nm
	eIS	46 50	SKSH:9s 3.7/μm SH:16s 2.8/μm
	esS	47 55	MPV=6.5 MPV1=6.0 MSH=6.4
	eSS	53 10	
	LmH	17 03	
	LmV	08	
1.	eP	18 43 18	<u>South of Honshu/Japan</u> 30.64°N 140.61°E
	epP	43 45	H = 18 30 41.8 h = 114 km MAG=5.0 (USCGS)
	ePP	46 42	D = 87.5° h = 106 km
			PPV:1.7s 38.8nm
			MPPV=5.7
1.	eiP	22 32 22	<u>North Atlantic Ridge</u> 23.83°N 45.23°W
	ei	32 25	H = 22 23 21.5 h = 33 km MAG=4.9
	ei	32 30.5	D = 51.1° Az = 43.3° (USCGS)
	e	32 42	LmV:18s 0.6/μm
	eS	39.7	MLV=4.7
	LmH	50.5	
	LmV	50.5	
1.	eP	22 41 20.5	<u>Costa Rica</u> 9.51°N 83.93°W
			H = 22 28 46.3 h = 76 km MAG=5.4
			D = 86.2° Az = 39.4° (USCGS)
2.	ePKIKP	10 11 41	<u>New Britain Region</u> 5.98°S 149.72°E
	e	12 03	H = 09 52 48.5 h = 52 km MAG=5.2 (USCGS)
	ePP	13 24	D = 123.5°

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Moxa

Day	Phase	h m s	Remarks
cont.			
2.	ePPP	10 16 00	PPV:8s 0.5/ μ m
	ePS	23 24	LmH:21s 4.1/ μ m LmV:20s 5.7/ μ m
	ePPS	24(50)	MPPV=5.9 MLH=6.1 MLV=6.3
	eSS	30.7	
	LmH	11 06.3	
	LmV	06.3	
2.	ePKIKP	11 12 07	<u>Fiji Islands Region</u> 18.01°S 178.31°W
	1PKHKP	12 10	H = 10 53 28.4 h = 537 km MAG=4.9
	ePKP2	12 12	D = 146.5° Az = 348.5° (USCGS)
	e	12 18	
2.	ePn	11 30 24.5	<u>Explosion/Northwestern CSSR</u>
	ePg	30 28	D = 1.6° Yield: 19 t
	1Sg	30 49.5	
2.	1P	14 00 25.5	<u>Turkey</u> 38.14°N 42.70°E
	i	00 29	H = 13 55 03.6 h = 54 km MAG=4.7
	LmH	10	D = 25.3° Az = 309.7° (USCGS)
	LmV	12	
2.	eP	16 53 41	<u>Bali Island Region</u> 8.59°S 114.94°E
	e	57 46	H = 16 39 44.4 h = 103 km MAG=5.8 (USCGS)
	ePP	58 04	D = 105.1°
2.	e(P)	20 16 17	
	e	16 21	
2.	e	20 46 26	<u>Probably Turkey</u> (USCGS)
			The first onset of P must be 20 s earlier.
2.	eP	23 17 47.5	<u>Turkey</u> 37.99°N 42.57°E
	e	17 50	H = 23 12 22.9 h = 41 km MAG=4.8 (USCGS)
	e(pP)	18 00	D = 25.2° (h = 68 km)
	e	18 05	SH:11s 0.8/ μ m
	eS	22(20)	LmH:15s 1.4/ μ m LmV:16s 1.5/ μ m
	e(SS)	23 14	MLH=4.6 MLV=4.6
	LmH	28.8	e 18 16 e 18 30 e 23 34 e 24 16
	LmV	29.8	

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Moxa

Day	Phase	h m s	Remarks
3.	e	04 10 45.5	
3.	e	07 43 18	
	e	43 41	
3.	e	09 59 21.5	
	e	59 34.5	
3.	ePKIKP	19 27 31.5	<u>Near S. E. Coast of Australia</u>
	epPKIKP	27 36	37.12°S 147.21°E
			H = 19 07 55.0 h = 37 km MAG=3.8 (USCGS)
			D = 145.9° h = 25 km
			PV1:1.1s 13.3nm PV2:1.7s 27.8nm
3.	LmH	20 50	<u>Turkey</u>
4.	LmH	02 38	<u>Honshu/Japan</u> 36.73°N 137.58°E
			H = 01 48 56.4 h = 103 km MAG=4.2 (USCGS)
			D = 80.8°
			LmH:14s 0.2/ μ m
			MLH=4.6
			Our clear registration of surface waves from this earthquake makes the USCGS-depth-calculation doubtful.
4.	1P	06 40 07.5	<u>Greece</u> 39.09°N 21.80°E
	i	40 11.0	H = 06 36 59.8 h = 41 km MAG=5.0 (USCGS)
	ePP	40 18	D = 13.6°
	i(sP)	40 22	LmH:13s 8.7/ μ m LmV:(11s) 9.6/ μ m
	i	40 28.0	MLH=5.0 (MLV=5.3)
	eLQ	43(05)	e 40 34 e 43 16 e1 44 50
	LmH	46.2	
	LmV	46.3	P is multiple.
4.	eP	07 42 04	<u>Greece</u> 39.00°N 21.79°E
	e	42 24	H = 07 38 58.9 h = 47 km MAG=4.2 (USCGS)
	e	42 25.5	D = 13.7°

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Moxa

Day	Phase	h m s	Remarks
4.	iP	08 56 43.7	<u>Iceland Region</u> 61.51°N 27.12°W
	e	56 46	H = 08 51 30.2 h = normal MAG=4.3 (USCGS)
			D = 23.8°
4.	eP	11 05 20	PV1:1.7s 27.8nm PV2:1.8s 40.6nm
	e	05 28	PV3:1.6s 34.2nm PV:1.8s 40.6nm
	e	05 39	World data centres give no epicentre determination. Seismic station Kasperske Hory (KHC)/CSSR gives eIP 11 05 23.6
	e	05 47	Hory (KHC)/CSSR gives eIP 11 05 23.6 eI 05 37.7.
4.	+1PKP	20 38 29.5	<u>Tonga Islands</u> 15.97°S 173.90°W
	e	38 35	H = 20 19 02.8 h = 107 km MAG=5.0 (USCGS)
	e(pPKP)	39 04	D = 144.2° (h = 128 km)
	e	39 29	PV:1.3s 27.9nm
4.	eP1	21 53 03	<u>Turkey</u> 37.74°N 27.93°E
	-eIP2	53 07	H = 21 48 58.2 h = 14 km MAG=4.7 (USCGS)
	eS1	56 20	D = 17.4°
	eIS2	56 28	PV1:1.6s 68.5nm PV2:2.5s 423nm
	e	57 14	PV:5s 1.3/ μm PH:4.5s 1.1/ μm
	eL1(3.74)	57 36	SH2:9s 1.1/ μm SV2:8s 1.9/ μm
	eLg1(3.57)	58 00	LmH:13.5s 6.0/ μm LmV:11s 5.9/ μm
	eL(3.37)	58 32	MLH=5.1 MLV=5.2
	LmH	59.1	The phase L(3.37) has the velocity of the Lg2-phase, but begins with long periods (T ca. 20 s) and shows very clear normal dispersion. This is not typical for "channel waves" or higher mode surface waves. It seems to be better, to interpret this phase as LQ.
	LmV	22 00.6	
5.	eP	04 07 47	
5.	eP	06 51 00	<u>Rat Islands/Aleutian Is.</u> 51.59°N 176.81°E
	ePP	51 08	H = 06 39 12.0 h = 75 km MAG=4.9 (USCGS)
			D = 77.8° h = 30 km

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Day	Phase	h m s	Remarks
5.	iP1	14 33 45.2	<u>Taiwan Region</u> 24.37°N 122.57°E
	+1P2	33 49.0	H = 14 21 22.7 h = 60 km MAG=5.7
	eP1	34 00	D = 83.8° Az = 323.3° (USCGS); h = 60 km
	eIP2	34 05	PV1:2.0s 59.2nm PV2:2.2s 218nm
	ePP	37 00	PV:5.0s 1.6/ μm SH:9.5s 2.6/ μm
	ePPP	38(55)	LmH:18s 13.8/ μm LmV:15.5s 13.7/ μm
	1S	44 06	MPV1=5.4 MPV2=5.9 MPV=6.4 MSH=6.4
	ePPS	45 20	MLH=6.4 MLV=6.5
	eSS	49 35	eI 34 16 eI 34 44
	LmH	15 09.6	P is multiple.
	LmV	15.5	
5.	eP	15 21 43	<u>Iceland Region</u> 61.41°N 27.47°W
	e	21 51	H = 15 16 31.9 h = normal MAG=5.0
	e	21 57	D = 24.0° Az = 98.8° (USCGS)
			PV:2.2s 146nm
			MPV=5.2
5.	eP	15 30 24.5	<u>Iceland Region</u> 61.48°N 27.39°W
	e	30 31	H = 15 25 12.4 h = normal MAG=4.9
	e	30 36	D = 23.9° Az = 99.1° (USCGS)
	LmH	41	PV:2.0s 81.5nm
	LmV	41	LmH:14s 2.2/ μm LmV:15s 2.5/ μm
			MPV=5.0 MLH=4.8 MLV=4.9
5.	ePKHP	15 42 19	<u>Fiji Islands Region</u> 21.71°S 179.32°W
	e	42 25	H = 15 23 35.5 h = 604 km MAG=4.7
	ePKP2	42 27.5	D = 149.9° Az = 346.1° (USCGS)
5.	eIP	15 57 53	<u>Iceland Region</u> 61.53°N 27.47°W
	i	57 57.0	H = 15 52 41.1 h = normal MAG=5.0
	e	16 01 00	D = 24.0° Az = 99.1° (USCGS)
	eS	02 18	PV1:2.8s 448nm PV2:2.4s 398nm
	LmV	08.3	PV:5s 1.7/ μm PH:4.5s 1.3/ μm
	LmH	08.7	LmH:14.5s 3.1/ μm LmV:17s 5.7/ μm
			MPV1=5.6 MPV=5.9 MPH=6.1 MLH=4.9
			MLV=5.2

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Moxa

Day	Phase	h m s	Remarks
6.	e	00 19 33	<u>Taiwan Region</u> 21.9°N 119.6°E
	LmH	01 06.5	H = 00 05 55 (ANUSSR)
	LmV	10.5	D = 84.1°
			LmH:16s 0.7/ μm LmV:14s 0.5/ μm
			MLH=5.2 MLV=5.1
6.	-iP	02 48 01.8	<u>Malawi/Africa</u> 15.73°S 34.43°E
+ipP		48 06.8	H = 02 36 56.8 h = normal MAG=5.5
ePcP		48 25.5	D = 69.1° Az = 344.7° (USCGS); h = 19 km
epPcP		48 30.5	PV:1.1s 40.0nm pPV:1.5s 72.5nm
eIS		57 12	MPV=5.6
LmH		03 25.5	e 48 34 1 50 21
LmV		25.5	
6.	iP	04 05 24.5	<u>Taiwan Region</u> 23.81°N 122.96°E
LmH		47.3	H = 03 52 51.0 h = normal MAG=4.8 (USCGS)
LmV		47.3	D = 84.4°
			LmH:12s 0.5/ μm LmV:12s 0.5/ μm
			MLH=5.1 MLV=5.2
6.	ePKIKP	07 33 07.5	<u>South of Fiji Islands</u> 25.00°S 179.57°E
ePKHKP		33 15	H = 07 14 13.5 h = 488 km MAG=5.3
ePKP2		33 27.5	D = 152.8° Az = 343.1° (USCGS)
6.	e(P)	10 20 33	<u>Honshu/Japan</u> 36.95°N 137.68°E
e(pP)		20 42	H = 10 08 30.7 h = 148 km MAG=4.3 (USCGS)
LmH		57.5	D = 80.7° (h = 33 km)
			LmH:12s 0.6/ μm
			MLH=5.5
			Our finding of surface waves from this earthquake makes the USCGS-depth-calculation doubtful. The P onsets are very small and in the noise level.
6.	eP	15 12 17	<u>Nevada</u>
e		12 30	H = 15 00 00
e		12 40	D = 81.2° (UPP)
			PV:1.3s 20.9nm
			MPV=5.1
			Underground explosion.

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Moxa

Day	Phase	h m s	Remarks
6.	ePP	16 25 32	<u>Mariana Islands Region</u> 18.09°N 145.26°E
			H = 16 08 09.7 h = 328 km MAG=5.2 (USCGS)
			D = 100.3°
			PPV:1.8s 37.5nm
			MPPV=5.1
			ANUSSR gives: 16.6°N 145.8°E
			H = 16 07 29 h = normal
			D = 102.0°
			The total absence of surface waves in our sensitive longperiod registrations corresponds to the USCGS-interpretation as an deep earthquake.
6.	ePKP	20 13 25	<u>Tonga Islands</u> 19.43°S 173.74°W
e		13 30.5	H = 19 53 47.0 h = 112 km MAG=4.9
e		13 41.5	D = 148.6° Az = 353.5° (USCGS)
e		13 43.5	
7.	e(Sn)	00 04 18	<u>Yugoslavia</u> 44.0°N 18.5°E
eSg		05 10	H = 00 01.0 (BCIS)
			D = 8.1°
7.	e(Pb)	00 41 19	<u>Italy</u> 44.6°N 10.3°E
ePg		41 31.5	H = 00 39 37 (BCIS)
eSn		42 10	D = 6.2°
eSg		42 54	e 42 33 e 43 07 e 43 39
7.	e	04 00 36	
7.	eP	04 05(47)	<u>Eastern Kazakh SSR</u> 49.74°N 77.90°E
ePP		07 22	H = 03 57 58.0 h = 0 MAG=4.9 (USCGS)
			D = 41.2°
			Underground explosion.
7.	iPKHKP	05 28 51.2	<u>South of Fiji Islands</u> 22.08°S 179.52°E
			H = 05 10 07.7 h = 600 km MAG=4.2 (USCGS)
			D = 150.0°

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Moxa

Day	Phase	h m s	Remarks
7.	i(Pg)	12 58 32	<u>Austria?</u>
	e1	58 35	(D = 3.3°)
	e	59 12.5	Kasperske Hory (KHC) gives: D = 2.6°
	e1	59 13.5	Vienna (VIE) gives: (D = 2.0°)
	eSg	59 15.5	
7.	e1P1	13 12 20	<u>Turkey</u> 37.80°N 27.92°E
	1P2	12 23.2	H = 13 08 16.0 h = 12 km MAG=5.2
	1P3	12 27.0	D = 17.3° Az = 323.1° (USCGS)
	e	12 39	PV1:1.3s 27.9nm PV2:1.8s 312nm
	e	12 52.5	PV3:2.0s 430nm PV:4.5s 1.8/ μ m
	eS	15 40	SH:11s 2.4/ μ m
	e	15 46	LmH:13s 10.1/ μ m LmV:11s 9.8/ μ m
	eLi(3.70)	16 56	MLH=5.4 MLV=5.5
	eLg1(3.56)	17 19	Well developed higher modes of surface waves. eL begins with long periods
	eL(3.35)	17 50	(T = 20 s) and shows very clear normal dispersion (compare Turkey earthquake from 4. May 21 53 GMT). P is multiple.
	eRg(3.01)	18 53	The amplitude of the second onset is more than ten times greater.
	LmH	18.5	
	LmV	19.7	
7.	LmH	21 37	<u>Northeastern China</u> 37.20°N 115.05°E
	LmV	37.5	H = 20 52 12.5 h = normal MAG=4.8 (USCGS)
			D = 69.6°
			LmV:16s 0.4/ μ m
			MLV=4.8
7.	1P	22 13 27.0	<u>Black Sea</u> 42.13°N 35.77°E
	e(sP)	13 34	H = 22 09 06.8 h = 13 km MAG=4.6
	e(PP)	13 42.5	D = 18.7° Az = 305.4° (USCGS)
8.	eP	01 37 16	<u>Kurile Islands Region</u> 44.78°N 150.46°E
	e1P1	37 29	H = 01 25 19.5 h = 45 km MAG=4.7 (USCGS)
	LmH	02 14	D = 78.1° h = 48 km
	LmV	15	LmV:15s 0.4/ μ m
			MLV=4.8

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Moxa

Day	Phase	h m s	Remarks
8.	e	03 52 08	<u>Greece</u> 39.04°N 21.31°E H = 03 48 48.0 h = 49 km MAG=4.1 (USCGS) D = 13.5° The first onset of P must be 10 s earlier.
8.	e(P)	06 26 14	<u>Greece</u> (UPP)
	e	26 24	
	e	26 38	
8.	eP	08 41 55	<u>Kurile Islands Region</u> 44.90°N 150.52°E
	e	42 04	H = 08 29 57.1 h = normal MAG=4.6
	e	42 07.5	D = 78.4° Az = 334.7° (USCGS)
	LmH	09 19.5	
	LmV	19.5	
9.	+e1P1	00 47 20	<u>Crete</u> 34.54°N 26.53°E
	1P2	47 28.5	H = 00 42 55.6 h = normal MAG=5.5 (USCGS)
	1P3	47 34.0	D = 19.4°
	eS1	50 58	PV1:7s 3.3/ μ m PH1:6s 2.5/ μ m
	eS2	51 06	PV2:2s 630nm SH2:8s 3.0/ μ m
	eS3	51 12	SH4:6s 12.6/ μ m SV4:14s 7.0/ μ m
	eS4	51 16	LmH:12.5s 30.6/ μ m LmV:16s 27.9/ μ m
	LmH	55.2	MPV1=5.7 MPH1=5.8 MSH2=5.4 MSH4=6.2
	LmV	56.5	MLH=5.9 MLV=5.8
			Multiple P- and S-phases.
9.	+1P	03 55 27.5	<u>Turkey</u> 37.20°N 31.21°E
	epP	55 48	H = 03 51 09.4 h = 125 km MAG=5.1 (USCGS)
	esP	56(00)	D = 19.4° h = 115 km
	e	56 05	PV:1.4s 370nm SH:8s 1.0/ μ m
	eS	59 00	MPV=5.5 MSH=5.6
	e	59 08	
9.	eP	04 40 03	<u>Turkey</u> 38.01°N 42.19°E
	e	41 15	H = 04 34 41.8 h = normal MAG=4.5 (USCGS) D = 25.0°

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Moxa

Day	Phase	h m s	Remarks
9.	eIP	06 12 55	<u>Crete</u> 34.50°N 26.59°E
	e	13 00	H = 06 08 28.5 h = normal MAG=5.0
	LmH	23	D = 19.5° Az = 330.4° (USCGS)
			PV2:1.5s 35.0nm
9.	e(Sn)	10 14 39	<u>Probably Italy</u> 43.5°N 12.7°E
	e(Sg)	15 29	H = 10 11 42 (BCIS)
			D = 7.2°
9.	ePKP	15 34(42)	<u>Tonga Islands</u> 15.52°S 174.62°W
	e	34 49	H = 15 15 13.9 h = 59 km MAG=4.7 (USCGS)
	e	34 55	D = 142.4°
9.	ePKP	20 25(47)	<u>Tonga Islands</u> 15.45°S 175.16°W
	e	25 52	H = 20 06 18.3 h = 70 km MAG=4.6
	LmH	21(28)	D = 144.5° Az = 352.6° (USCGS)
	LmV	(28)	PV:1.7s 27.8nm
9.	ePKP	21 50(24)	<u>Tonga Islands</u> 15.05°S 174.63°W
			H = 21 30 41.4 h = 35 km MAG=4.8 (USCGS)
			D = 144.2°
10.	eP	02 52 12	<u>Crete</u> 34.51°N 26.58°E
	e	52 30	H = 02 47 45.3 h = normal MAG=4.5
	LmH	59	D = 19.5° Az = 330.4° (USCGS)
	LmV	03 01	
10.	ePKP	05 51 55	<u>New Hebrides Islands</u> 16.49°S 167.33°E
			H = 05 32 26.7 h = normal MAG=4.8 (USCGS)
			D = 140.8°
10.	eP	10 20 54	<u>Hokkaido/Japan Region</u> 41.81°N 141.94°E
			H = 10 08 56.6 h = 43 km MAG=4.9 (USCGS)
			D = 78.1°
10.	e(P)	11 54 22.5	

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Day	Phase	h m s	Remarks
10.	LmH	12 18.5	<u>Eastern China</u> 36.56°N 115.73°E
	LmV	22.5	H = 11 37 56.4 h = normal MAG=4.9 (USCGS)
			D = 70.5°
			LmH:14s 0.9/ μm LmV:14s 0.65/ μm
			MLH=5.2 MLV=5.1
10.	eP	21 13 13	<u>USSR-Mongolia Border Region</u>
	ePP	13 18.5	51.81°N 99.03°E
	esp	13 22	H = 21 04 04.0 h = 2 km MAG=4.9
	ePPP	16 11	D = 51.5° Az = 305.7° (USCGS); h = 23 km
	eS	20 40	PV:1.4s 33.4nm pPV:2s 88.9nm
	eSS	24 25	LmH:15s 3.6/ μm LmV:15s 4.7/ μm
	LmH	37.0	MPV=5.3 MLH=5.5 MLV=5.7
	LmV	37.0	
11.	eP	01 27 16	<u>Crete</u> 34.55°N 26.50°E
	e	27 19	H = 01 22 55.5 h = 94 km MAG=4.7
	e	27 24	D = 19.4° Az = 330.5° (USCGS)
	e	27 30	PV2:1.6s 34.2nm
	LmH	35	MPV2=4.3
	LmV	36.5	
11.	e	01 39 17.5	
11.	eP	02 02 08	<u>Afghanistan</u> 34.63°N 69.85°E
	e	02 12.5	H = 01 53 56.7 h = 27 km MAG=5.1
	e	02 17	D = 44.6° Az = 309.5° (USCGS)
	e	02 42	PV2:1.4s 26.2nm
	LmH	21.5	MPV2=5.0
	LmV	24.5	The first onset of P is very small, followed by very larger onsets.
11.	eP	10 26 12	<u>Crete</u> 34.50°N 26.36°E
	e	26 20	H = 10 21 42.5 h = 11 km MAG=4.7
	e	26 23	D = 19.4° Az = 330.8° (USCGS)
11.	+IP	14 29 25.0	<u>Kurile Islands Region</u> 48.86°N 156.21°E
	ei	29 27	H = 14 17 34.1 h = 13 km MAG=5.8 (USCGS)
	e(pP)	29 37	D = 76.2° (h = 45 km)
	es	39 08	PV1:1.0s 126nm PV2:1.0s 218nm

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Day	Phase	h m s	Remarks
cont.			
11.	ePS	14 39 42	(pP)V:2.2s 918nm SH:12.5s 2.2/ μ m
	LmH	15 02.7	PSV:15s 1.4/ μ m PSH:14s 1.8/ μ m
	LmV	08.5	LmH:18s 20/ μ m LmV:16s 13.5/ μ m
			MPV1=6.0 MPV2=6.2 MSH=6.2 MLH=6.5
			MLV=6.4
			Multiple P. pP has an unusually longer periode than P.
11.	+1P	14 38 28.5	<u>Kurile Islands Region</u> 48.98°N 156.21°E
	e(pP)	38 41	H = 14 26 41.6 h = normal MAG=5.5 (USCGS)
	eS	48 12	D = 76.2° (h = 46 km)
	e(PS)	49 07	PV:1.5s 140nm (pP)V:2.3s 350nm
	LmH	15 11.6	SH:14s 1.7/ μ m
	LmV	19.3	LmH:15.5s 9.6/ μ m LmV:16s 8.7/ μ m
			MPV=5.9 MSH=6.0 MLH=6.2 MLV=6.2
11.	+eP	15 10 28.5	<u>Crete</u> 34.44°N 26.50°E
	e	10 32	H = 15 06 02.1 h = 34 km MAG=4.9
	e	14 05	D = 19.5° Az = 330.7° (USCGS)
	eS	14 18	PV1:1.6s 36.8nm PV2:1.8s 81.2nm
			SH:2s 78.9nm SV:2.2s 54.5nm
			MPV1=4.4 MPV2=4.6 MSH=4.6
11.	eP	18 12 18	<u>Kurile Islands Region</u> 48.53°N 156.50°E
			H = 18 00 29.0 h = normal MAG=4.6
			D = 76.7° Az = 337.9° (USCGS)
			PV:1.0s 13.0nm
			MPV=5.0
11.	ePKHKP	21 17 47	<u>Fiji Islands Region</u> 21.78°S 176.86°W
			H = 20 58 19.7 h = 222 km MAG=4.7 (USCGS)
			D = 150.5°
11.	+1P	21 51 24.5	<u>Kurile Islands Region</u> 48.77°N 156.31°E
	epP	51(36)	H = 21 39 35.3 h = 28 km MAG=5.7 (USCGS)
-1		51 36.8	D = 76.3° h = 42 km
	eS	22 01 05	PV:1.3s 144nm pPV:1.5s 170nm
	ePS	01 44	LmH:18s 9.1/ μ m LmV:18s 3.3/ μ m

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Day	Phase	h m s	Remarks
cont.			
11.	LmH	22 24.5	MPV=5.9 MLH=6.2 MLV=5.7
	LmV	30.6	
11.	ePKP2	23 41 43	<u>Kermadec Islands</u> 30.65°S 179.47°W
	epPKP2	43 09	H = 23 21 47.9 h = 329 km MAG=4.4 (USCGS)
			D = 158.3° h = 340 km
12.	iPKHKP	01 35 49.5	<u>Fiji Islands Region</u> 21.32°S 179.62°W
			H = 01 17 04.7 h = 609 km MAG=4.1
			D = 149.4° Az = 345.9° (USCGS)
			PV:0.8s 13.0nm
12.	eP	06 43 36.5	<u>Taiwan Region</u> 24.20°N 122.29°E
	e	44 08	H = 06 31 11.9 h = 57 km MAG=4.8 (USCGS)
			D = 83.7°
12.	ePKP	08 36 26	<u>Loyalty Islands</u> 20.70°S 168.94°E
	e	36 32	H = 08 16 59.7 h = 69 km MAG=4.1 (USCGS)
	e	36 41	D = 149.0°
12.	eP	11 51 12.5	<u>Southern Sinkiang Prov./China</u>
	LmH	12 13	40.22°N 78.39°E
	LmV	14.5	H = 11 42 46.2 h = normal MAG=4.7
			D = 46.5° Az = 306.2° (USCGS)
			PV:1.2s 15.9nm
			MPV=5.0
12.	eP	12 28 49.5	<u>Kurile Islands Region</u> 48.66°N 156.34°E
	e	28 59	H = 12 16 59.2 h = 26 km MAG=4.9
	e	29 02	D = 76.5° Az = 337.8° (USCGS)
			PV:1.0s 17.4nm
			MPV=5.1
12.	e(P)	13 49 28.5	PV:0.9s 10.9nm
12.	e	14 04 31	
12.	ePg	14 09 13	<u>Explosion/GDR</u> 51.37°N 12.89°E
	ISg	09 29	D = 1.1° Yield: 2.1 t

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Day	Phase	h m s	Remarks
12.	ePg	15 05 31	<u>Explosion/GFR</u> 57.97°N 13.22°E
	eSg	05 51	H = 15 05 00.98 D = 1.5° Yield: 4.5 t
12.	eP	20 34 42	<u>Aegean Sea</u> 38.62°N 25.75°E
	e	34 46	H = 20 31 02.2 h = normal MAG=4.4
	e	35 09	D = 15.6° Az = 324.8° (USCGS)
	e	35 12	LmH:11s 1.0/um LmV:10s 1.1/um
	LmH	40.2	MLH=5.2 MLV=5.3
	LmV	41.5	
13.	eP	10 20 47.5	<u>Eastern Mediterranean Sea</u> (UPP)
	e	20 51	
13.	eP	13 10 02	<u>Crete</u> 34.57°N 26.63°E
	e	10 07	H = 13 05 31.7 h = 8 km
	e	10 17	D = 19.4° Az = 330.3° (USCGS)
13.	eP	13 16 16	<u>Crete</u> 34.79°N 26.98°E
	e	16 20.5	H = 13 11 51.1 h = 31 km MAG=4.8 (USCGS)
	LmH	25.2	D = 19.4°
	LmV	25.4	PV1:2.0s 29.6nm PV2:1.8s 62.5nm
			LmH:15s 0.9/um LmV:14s 1.1/um
			MPV1=4.2 MPV2=4.5 MLH=4.2 MLV=4.5
13.	eP	13 42 18	<u>Nevada</u>
			H = 13 30 00 (UPP)
			D = 81.2°
			PV:1.3s 39.5nm
			MPV=5.4
			Underground explosion.
13.	eP	14 11 04.5	<u>Kurile Islands Region</u> 49.89°N 157.31°E
			H = 13 59 18.5 h = 12 km MAG=4.3 (USCGS)
			D = 75.7°
			PV:1.2s 13.6nm
			MPV=5.0

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Day	Phase	h m s	Remarks
13.	eP	14 31 12	<u>Kurile Islands Region</u> 49.89°N 157.26°E
			H = 14 19 29.4 h = normal MAG=4.3 (USCGS)
			D = 75.7°
			PV:1.2s 22.8nm
			MPV=5.2
13.	i	14 43 24.0	Probably explosion.
	e	43 36	
13.	eP	23 21 12.5	<u>West Pakistan</u> 29.79°N 69.91°E
	e	21 48.5	H = 23 12 34.4 h = 27 km MAG=4.0 (USCGS)
	ePP	23 08	D = 47.8°
	LmH	(42)	
14.	LmH	00 23.5	<u>Afghanistan</u> 32.7°N 68.2°E
			H = 23 54 01 MAG=4 1/4 (ANUSSR)
			D = 44.8°
14.	eP	06 55 11	
14.	eP	13 59 14	PV:2.0s 29.6nm
14.	eP	17 12 24	<u>Japan</u> 35.4°N 138.5°E
	e	12 33	H = 16 59 58 h = 12 km MAG=5 1/4
			D = 82.4° (ANUSSR)
14.	eP	17 16 24	<u>Near S. Coast of Honshu/Japan</u>
	e	16 29	34.17°N 138.89°E
			H = 17 03 56.5 h = normal MAG=4.9 (USCGS)
			D = 83.6°
14.	eP	20 38 52.5	<u>Near Coast of Venezuela</u> 10.45°N 63.00°W
	epp	38 57.5	H = 20 27 27.4 h = 16 km MAG=5.5 (USCGS)
			D = 72.2° h = 18 km
			pPV:2.0s 44.5nm
14.	eP	23 04 22	<u>Southern Greece</u> 36.79°N 22.28°E
	e	04 30	H = 23 00 42.5 h = normal MAG=4.4
			D = 15.8° Az = 334.4° (USCGS)

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Day	Phase	h m s	Remarks
15.	1P	02 21 12.0	<u>Southern Sinkiang Prov./China</u>
	e1	23 16	39.64°N 74.05°E H = 02 13 02.8 h = 51 km MAG=4.9 D = 44.2° Az = 305.9° (USCGS) PV:1.1s 17.8nm MPV=4.9
15.	eP	07 45 32	
15.	eP	08 32(50)	<u>Greece</u> 38.9°N 21.2°E
	e	33 02	H = 08 29 35 (ANUSSR) D = 13.6° The first onset is very small.
15.	eP	10 15 30	<u>Dodecanese Islands</u> 35.14°N 27.15°E
	e	15 36	H = 10 11 07.9 h = 45 km MAG=4.5
	e	15 44.3	D = 19.2° Az = 328.7° (USCGS)
	e1	15 50.5	PV2:1.7s 33.3nm The first onset is very small.
15.	+e1P	14 58 02	<u>Andreanof Islands/Aleutian Is.</u>
	ePP	15 00 54	51.48°N 178.44°W
	ePPP	02 53	H = 14 46 06.5 h = 31 km MAG=5.8 (USCGS)
	e(Pa)	04.3	D = 78.1°
	eS	07 52	PV:1.6s 105nm PPV:10s 0.8/um
	eIScS	08 16	SH:10s 0.7/um ScSH:11s 1.2/um
	ePPS	08 40	LmH:17s 3.8/um LmV:20s 5.4/um
	eSS	12 58	MPV=5.7 MPPV=5.8 MSH=5.8 MLH=5.8
	ePKPPKP	24(58)	MLV=5.9
	LmV	36.8	
	LmH	37.6	
16.	ePKIKP	03 04 55	<u>Banda Sea</u> 6.90°S 129.39°E
	e	05 30	H = 02 46 42.4 h = 212 km MAG=5.9 (USCGS)
	e1(PP)	05 53	D = 112.7°
	e(pPP)	06 50	PV:1.2s 18.2nm
16.	e(Pg)	12 41 34	Probably explosion.
	e	41 42.5	
	iSg	41 57	

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Day	Phase	h m s	Remarks
16.	eP	13 18 56.5	<u>Kyushu/Japan</u> 30.60°N 130.18°E
	LmH	14 00	H = 13 06 38.1 h = 68 km MAG=5.1 (USCGS)
	LmV	00	D = 82.5° LmH:16s 0.4/um LmV:16s 0.5/um MLH=4.9 MLV=5.0
16.	eP	17 35 20	<u>Crete</u> 34.43°N 26.57°E
	e	35 24	H = 17 30 53.5 h = 32 km MAG=4.8
	i	35 30.0	D = 19.5° Az = 330.6° (USCGS)
	eS	39 14	PV2:2.0s 74.0nm PV3:2.0s 111nm
	LmH	44.4	SH:4s 0.6/um
	LmV	44.9	LmH:13s 0.9/um LmV:14s 1.0/um MPV2=4.6 MPV3=4.7 MSH=5.1 MLH=4.3 MLV=4.4
16.	eP	20 07 34	<u>Iceland Region</u> 61.90°N 26.80°W
	e	07 43	H = 20 02 24.9 h = normal MAG=4.4
	e	07 49	D = 23.7° Az = 100.6° (USCGS)
	LmH	(18)	LmV:14s 0.3/um
	LmV	18	MLV=3.8
17.	+eP	01 11 24	<u>Near East Coast of Honshu/Japan</u>
	eP	11 38	35.78°N 140.50°E
	e	12 04	H = 00 59 06.3 h = 68 km MAG=5.3
	LmH	51	D = 82.9° Az = 330.0° (USCGS); h = 54 km
	LmV	51.3	PV:1.3s 30.2nm pPV:1.5s 30.0nm MPV=5.1
17.	eP	07 12 40	<u>Uganda</u> 0.74°N 30.11°E
	ePcP	13 52	H = 07 03 29.4 h = 12 km MAG=6.3 (USCGS)
	ePP	14 40	D = 52.0°
	eS	20 04	PV:2.3s 130nm
	ePS	20 14	LmH:18s 2.1/um LmV:19s 3.3/um
	eSS	23 44	MPV=5.7 MLH=5.3 MLV=5.4
	LmH	36.8	e 13 08 e 13 40 e 13 54 e 14 48
	LmV	36.8	e 22 40
17.	e(P)	17 16 19	
	e	16 30	

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Day	Phase	h m s	Remarks
17.	ePKIKP	17 17 06.5	<u>Off Coast of Southern Chile</u>
	LmH	18 08	44.01°S 75.21°W
	LmV	08	H = 16 58 17.0 h = normal MAG=5.7 (USCGS)
			D = 120.4°
			LmV:18s 0.9/ μ m
			MLV=5.5
17.	eP	22 29 13	
	e	29 18.5	
18.	ePKP2	00 18 48	<u>Kermadec Islands</u> 29.52°S 176.68°W
			H = 23 58 20 h = normal (USCGS)
			D = 158.0°
18.	eP	01 55 42.5	<u>Republic of the Congo</u> 0.71°N 29.94°E
			H = 01 46 34.5 h = normal (USCGS)
			D = 52.2°
18.	ePKHKP	04 01 07.5	<u>Tonga Islands</u> 20.67°S 174.38°W
	ePKP2	01 14	H = 03 41 17.9 h = normal MAG=4.1 (USCGS)
			D = 149.7°
18.	eP	07 44 59	<u>Gulf of California</u> 25.01°N 109.04°W
	eS	55 44	H = 07 32 07.3 h = normal MAG=5.3
	eSS	08 01 32	D = 88.3° Az = 33.2° (USCGS)
	eSSS	08 28	LmH:15s 3.4/ μ m LmV:16s 4.9/ μ m
	LmH	26.2	MLH=5.9 MLV=6.0
	LmV	26.3	e 07 45 08.5 e 45 15
18.	e	12 50 48	
18.	eP	17 39 10	<u>Borneo</u> 5.92°N 116.61°E
	e	39 15	H = 17 25 51.9 h = 48 km MAG=5.4
			D = 94.9° Az = 321.9° (USCGS)
			PV:1.5s 10.0nm
			MPV=5.0

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Day	Phase	h m s	Remarks
19.	eP	06 07 05	<u>Southern Sinkiang Prov./China</u>
			39.77°N 78.08°E
			H = 05 58 40.3 h = normal MAG=5.1
			D = 46.6° Az = 306.5° (USCGS)
19.	eP	07 18 11	<u>Unimak Island Region</u> 54.11°N 164.05°W
	-i	18 12.2	H = 07 06 26.8 h = 28 km MAG=5.8 (USCGS)
	epP	18 19	D = 75.5° h = 30 km
	esP	18 22	PV:1.7s 239nm sPV:2.0s 119nm
	ePP	21 02	LmH:18s 3.5/ μ m LmV:17s 3.7/ μ m
	ePPP	22(50)	MPV=6.1 MLH=5.8 MLV=5.8
	eS	27 46	e 18 32 e 18 40.5 e 18 45
	ePPS	28 34	
	LmH	08 01.8	
	LmV	01.9	
19.	+eP	14 08 46	<u>Nevada</u>
	e(PcP)	08 55	H = 13 56 28 (UPP)
	ePP	11 49	D = 81.2°
			PV1:1.6s 84.3nm PV2:1.6s 42.1nm
			MPV1=5.7
			The PP-onset is approximately 6 s earlier than expected from the travel time tables.
			Underground explosion.
19.	ePg	22 23 35	<u>Northern Italy</u> 44.40°N 11.04°E
	e	23 41.5	H = 22 21 32.9 h = normal
	e(Sn)	24 12	D = 6.3° Az = 3.4° (USCGS)
	e(Sg)	24 56	e 23 45 e 24 26 e 24 35
20.	e	00 56 14	<u>Pyrenees</u> 42.96°N 0.26°W
	ePb	56 22	H = 00 53 00.0 h = normal MAG=4.2
	ePg	56 36	D = 11.2° Az = 42.5° (USCGS)
	eS	57 42	LmH:8.5s 0.45/ μ m LmV:10s 0.65/ μ m
	eLi(3.79)	58 29	MLH=3.7 MLV=4.0
	eLg1(3.56)	58 50	e 56 17 e 58 44 e 58 56
	eLg2(3.30)	59 18	
	LmH	01 00	
	LmV	00.1	

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Day	Phase	h m s	Remarks
20.	e(P)	03 06 10.5	
20.	eP	03 06 23	<u>Ryukyu Islands</u> 25.42°N 128.27°E
	epP	06 36	H = 02 53 47.4 h = 58 km MAG=5.2
	e	07 10	D = 85.9° Az = 325.2° (USCGS); h = 50 km
	e	07 34.5	PV:1.8s 31.3nm
	LmH	51.0	LmH:15s 1.1/ μm LmV:15s 1.3/ μm
	LmV	51.0	MPV=5.2 MLH=5.4 MLV=5.5
20.	e	07 39 22.5	<u>Upper Silesia</u> 50.3°N 19.0°E
	e	40 13	H = 07 38 00 (BCIS)
	eSg	40 31	D = 4.7°
20.	eP	09 23 35	<u>Crete</u> 34.36°N 26.55°E
			H = 09 19 08.2 h = 37 km MAG=3.9
			D = 19.6° Az = 330.7° (USCGS)
20.	e	09 32 06	<u>Mariana Islands</u> 13.88°N 146.10°E
	ePP	33 08	H = 09 14 49.2 h = 66 km MAG=6.0 (USCGS)
	eSKS	39 28	D = 104.5°
	eS	40 40	PPV:1.8s 50nm SKSH:11s 1.2/ μm
	ePS	42 16	PSV:11s 1.1/ μm
	ePPS	43 08	LmH:17s 4.3/ μm LmV:17.5s 4.7/ μm
	LmH	10 21.3	MPPV=5.8 MLH=6.1 MLV=6.1
	LmV	23.5	e 33 13 e 33 22.5
20.	eP	11 55(58)	<u>Komandorsky Islands Region</u>
	ePP	58 33.5	54.99°N 165.73°E
	LmH	12 29.5	H = 11 44 28.8 h = 46 km MAG=5.2 (USCGS)
	LmV	30.2	D = 72.5°
			PV:1.6s 18.4nm PPV:1.6s 26.3nm
			LmH:16s 0.7/ μm
			MPV=5.0 MPPV=5.2 MLH=5.1
20.	eP	18 15 18	<u>Philippine Islands Region</u>
	e	15 31	19.59°N 122.04°E
	epP	15 43	H = 18 02 41.4 h = 96 km MAG=5.6
	ePP	18 46	D = 87.3° Az = 323.3° (USCGS); h = 96 km
	eS	25(50)	PV:2.0s 52.0nm

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Day	Phase	h m s	Remarks
cont.			
20.	LmH	18 54.0	LmH:15s 0.9/ μm LmV:14s 1.1/ μm
	LmV	19 02.0	MPV=5.2 (MLH=5.3) (MLV=5.4)
21.	e	00 09 20	
21.	e(P)	00 10 32	<u>Vancouver Island Region</u> 50.23°N 129.66°W
			H = 23 58 51.7 h = 37 km MAG=5.0 (USCGS)
			D = 74.3°
			e(P) is a small but very clear onset.
			The first onset of P must be 5 s earlier.
21.	ePKHKP	08 27 27	<u>South of Fiji Islands</u> 24.30°S 179.84°E
	ePKP2	27 39	H = 08 08 30.6 h = 518 km MAG=5.1
	epPKHKP	29 30	D = 152.2° Az = 343.8° (USCGS);
	epPKP2	29 39.5	h = ca. 525 km
			PV1:1.2s 18.2nm PV2:1.2s 18.2nm
21.	ePKHKP	11 10 42.5	<u>Tonga Islands</u> 20.90°S 175.31°W
	ePKP2	10 50	H = 10 50 59.8 h = 75 km MAG=5.1
	e	10 54	D = 149.8° Az = 351.2° (USCGS)
			PV:1.4s 23.8nm
21.	ePKP	22 58 20	<u>New Hebrides Islands</u> 19.09°S 169.53°E
			H = 22 39 14.8 h = 238 km MAG=5.0
			D = 144.0° Az = 336.0° (USCGS)
			PV:1.6s 52.6nm
			ANUSSR gives:
			New Hebrides Islands 20.3°S 169.8°E
			H = 22 38 38 h = normal
			D = 145.2°
22.	ePKIKP	03 11 10	<u>Solomon Islands</u> 7.39°S 155.53°E
	e	11 21	H = 02 52 12.7 h = 83 km MAG=5.6
			D = 127.5° Az = 331.8° (USCGS)
22.	ePKIKP	03 44 15.5	<u>Solomon Islands</u> 7.37°S 155.71°E
			H = 03 25 19.8 h = 100 km MAG=5.3
			D = 127.6° Az = 331.9° (USCGS)

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Day	Phase	h m s	Remarks
22.	e	06 51 36	
	e	51 44	
22.	eP	07 41 23	<u>Turkey</u> 38.70°N 28.15°E
	e	41 25.5	H = 07 37 29.2 h = 40 km MAG=4.6
	e	41 27.5	D = 16.7° Az = 321.0° (USCGS)
	LmH	48.4	LmH:11s 1.8/ μm LmV:10.5s 1.7/ μm
	LmV	48.4	MLH=4.5 MLV=4.7
22.	eP	07 45 05	<u>Greece</u> (UPP)
	e	45 30	
	e	45 48	
22.	e(P)	07 48 27	
	e	48 44	
22.	LmH	08 38.5	<u>Revilla Gigedo Islands Region</u>
	LmV	38.5	21.19°N 108.72°W
			H = 07 42 49.9 h = 53 km MAG=5.5 (USCGS)
			D = 91.3°
			LmH:16.5s 1.1/ μm LmV:16s 1.5/ μm
			MLH=5.4 MLV=5.6
22.	eP	16 19 38.5	<u>North Atlantic Ocean</u> 57.91°N 32.88°W
	e	19 49	H = 16 14 05.8 h = normal MAG=4.9
	LmH	30.5	D = 26.6° Az = 86.5° (USCGS)
	LmV	30.5	LmH:14s 0.4/ μm LmV:14s 0.75/ μm
			MLH=4.1 MLV=4.5
22.	e	20 23 48.5	<u>Probably Crete</u> 34.38°N 26.51°E
	e	24 05	H = 20 16 51.7 h = 39 km MAG=3.5 (USCGS)
			D = 19.5°
			The P onset must be 30 s earlier.
23.	eP	01 31 47	<u>North Atlantic Ocean</u> 52.79°N 33.59°W
	e	32 11	H = 01 25 58.4 h = normal MAG=4.0
			D = 27.7° Az = 76.1° (USCGS)
23.	eP	01 34 42	<u>North Atlantic Ocean</u> 52.57°N 33.92°W
	e	34 45.5	H = 01 28 53.2 h = normal MAG=4.6

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Day	Phase	h m s	Remarks
cont.			
23.	e	01 34 52	D = 28.0° Az = 75.5° (USCGS)
	e	35 09	LmH:14s 0.9/ μm LmV:15s 1.0/ μm
	LmV	43.2	MLH=4.5 MLV=4.6
	LmH	43.9	
23.	e	04 50 07	
23.	LmH	07 20.5	<u>Tonga Islands</u> 15.95°S 174.47°W
			H = 05 58 54.7 h = normal MAG=4.8 (USCGS)
			D = 145.0°
			LmH:24s 0.3/ μm
			MLH=5.0
23.	LmH	07 57	<u>South of Japan</u> (USCGS)
23.	ePKP	08 07(11)	<u>Tonga Islands</u> 16.57°S 173.18°W
	e	07 16	H = 07 47 28.3 h = normal MAG=4.8
	e	07 19.5	D = 145.8° Az = 354.6° (USCGS)
	e	07 25	
23.	eS	09 03 10	<u>South of Honshu/Japan</u> 30.02°N 139.79°E
	LmH	30.7	H = 08 39 44.4 h = 28 km MAG=5.5 (USCGS)
	LmV	36	D = 87.5°
			LmH:14.5s 2.0/ μm LmV:14s 1.2/ μm
			MLH=5.7 MLV=5.5
23.	LmH	12 47.3	<u>Revilla Gigedo Islands Region</u>
	LmV	47.3	21.41°N 108.72°W
			H = 11 51 29.6 h = 58 km MAG=5.6 (USCGS)
			D = 91.2°
			LmH:16s 1.9/ μm LmV:17s 2.4/ μm
			MLH=5.7 MLV=5.8
23.	ePP	14 40 54	<u>South of Mariana Islands</u> 13.78°N 146.37°E
	eSKS	47 16	H = 14 22 32.5 h = 39 km MAG=5.9 (USCGS)
	eS	48 25	D = 104.7°
	eSS	55.3	LmH:16s 2.0/ μm LmV:16s 2.0/ μm
	LmH	15 29.6	MLH=6.0 MLV=6.0
	LmV	29.7	

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Day	Phase	h m s	Remarks
23.	LmH	21 36.7	<u>South of Honshu/Japan</u> 30.18°N 139.77°E H = 20 45 47.5 h = 25 km MAG=4.8 (USCGS) D = 87.5° LmH:18s 0.7/ μm MLH=5.1
24.	eP i eS eL1(3.77) eLg1(3.53) eLg2(3.33) LmH LmV	09 43 01 43 09 45 48 46 56 47 28 47 56 48.4 49.8	<u>Southern Greece</u> 37.36°N 22.08°E H = 09 39 26.0 h = 34 km MAG=4.9 (USCGS) D = 15.2° PV1:1.2s 22.7nm PV2:1.2s 50.0nm LmH:13s 6.3/ μm LmV:13s 2.4/ μm MLH=4.9 MLV=4.7
24.	eP e e LmH LmV	11 12 57.5 13 03 13 10 18.3 19.8	<u>Southern Greece</u> 37.45°N 22.01°E H = 11 09 26.0 h = 47 km MAG=4.9 D = 15.1° Az = 333.9° (USCGS) LmH:13s 1.6/ μm LmV:8s 0.5/ μm MLH=4.3 MLV=4.2
24.	1Pg 1Sg	12 32 26 32 53	Probably Explosion D = 2.1°
24.	eP e LmH	14 50 37 50 41 58	<u>Crete</u> 34.08°N 26.35°E H = 14 46 10.0 h = 53 km MAG=4.4 D = 19.8° Az = 331.4° (USCGS)
24.	ePKIKP ePKP2 e	15 48 51 49 14.5 49 20	<u>South of Fiji Islands</u> 25.61°S 177.41°W H = 15 29 12.4 h = 112 km MAG=5.3 D = 154.1° Az = 346.8° (USCGS)
24.	eP e LmH LmV	17 47 45 48 34 56 56.0	<u>Crete</u> 34.91°N 24.81°E H = 17 43 32.1 h = 45 km MAG=4.9 (USCGS) D = 18.4° LmV:15s 0.8/ μm MLV=4.2

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Day	Phase	h m s	Remarks
24.	LmH LmV	21 15.2 15.2	<u>Revilla Gigedo Islands</u> 21.31°N 108.71°W H = 20 19 40.7 h = 57 km MAG=4.9 (USCGS) D = 91.2° LmH:16s 0.7/ μm LmV:16s 1.0/ μm MLH=5.2 MLV=5.4
25.	e ePP LmH LmV	08 48 19.5 48 27 09(40) 43	<u>Tanimbar Islands Region</u> 6.40°S 131.11°E H = 08 28 58.6 h = 39 km MAG=5.8 (USCGS) D = 113.4° PPV:1.6s 21.0nm MPPV=5.6
25.	eP i e eLg(3.21) LmH LmV	09 09 44 09 46 11 16 13 44 15.4 15.5	<u>Albania</u> 40.47°N 19.92°E H = 09 06 58.5 h = normal MAG=5.3 D = 11.7° Az = 333.1° (USCGS) PV1:1.1s 26.6nm PV2:0.8s 65.0nm LmH:12s 1.4/ μm LmV:11s 1.8/ μm MLH=4.1 MLV=4.4
25.	ePKP ePKP2 eipPKP eisPKP LmH LmV	12 26 41.5 26 45 26 51.5 26 56 13 35.5 35.5	<u>Loyalty Islands Region</u> 21.57°S 169.87°E H = 12 07 04.8 h = 35 km MAG=5.5 D = 146.3° Az = 334.8° (USCGS); h = ca. 38 km PV1:2.2s 182nm PV3:2.0s 89.0nm LmH:21s 0.8/ μm LmV:21s 0.8/ μm MLH=5.5 MLV=5.5 e 27 19 e 27 40
25.	ePKIKP ePKP2 ePP eSKKS ePSKS ePKPScS eSS ePSS LmH LmV	13 40 51 41 34.5 45 16 52 08 55 34 56 22 14 05 32 06 35 15 05.4 14.2	<u>Macquarie Island Region</u> 52.89°S 160.02°E H = 13 20 56.2 h = normal MAG=6.6 D = 160.4° Az = 276.2° (USCGS) PV1:2.6s 243nm PV2:2.8s 448nm PPV:8s 3.3/ μm LmH:18s 2.8/ μm LmV:16s 3.1/ μm MPPV=6.5 MLH=6.2 MLV=6.2 e 13 45 24 e 14 53 22

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Moxa

Day	Phase	h m s	Remarks
25.	eP	23 02(05)	<u>Southern Honshu/Japan</u> 35.61°N 136.22°E H = 22 49 47.2 h = normal MAG=4.5 (USCGS) D = 81.2°
26.	ePKP	00 40 33.5	<u>Fiji Islands Region</u> 17.52°S 178.61°W
	e	40 35.5	H = 00 21 51.2 h = 514 km MAG=4.4 (USCGS) D = 146.1°
26.	e(Pn)	08 12 11	<u>Alps of Venezia/Italy</u> 46.4°N 12.9°E
	e(Pg)	12 25	H = 08 11 04 (BCIS)
	e(Sn)	12 56.5	D = 4.3°
	e	13 14	Taking the distance, corresponding the BCIS-epicentre-calculation, all our phases come too early. Our interpretation corresponds to a distance of approximately 3.9° .
	e(Sg)	13 16	
26.	e(P)	11 36 02	PV:1.2s 18.2nm
26.	iPg	12 01 42.5	<u>Explosion/CSSR</u> 50.6°N 14.0°E
	iSg	02 03.0	D = 1.5° Yield: 10.3 t
26.	ePKIKP	12 45 21.5	<u>South of Fiji Islands</u> 25.55°S 179.81°W
	ePKHKP	45 30	H = 12 26 23.8 h = 455 km MAG=5.0 (USCGS)
	ePKP2	45 45	D = 153.2° h = ca. 470 km
	ep(PKHKP)	47 22	
	ep(PKP2)	47 33	
26.	e	17 59 14	<u>Northern Italy</u> 44.8°N 10.7°E
	e	59 38	H = 17 57 06 (BCIS)
	eSg	18 00 35	D = 6.2°
26.	e(Sn)	18 09 52	<u>Northern Italy</u> 44.5°N 11.2°E
	e	10 20	H = 18 07 14 (BCIS)
	e(Sg)	10 40	D = 6.2°
26.	+ePKIKP	18 49 26.5	<u>Fiji Islands Region</u> 21.22°S 176.90°W
+1PKHKP		49 32.0	H = 18 30 07.4 h = 230 km MAG=5.4 D = 149.9° Az = 349.2° (USCGS) PV1:1.5s 30.0nm PV2:1.4s 143nm

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Day	Phase	h m s	Remarks
26.	e	20 10 33.5	
26.	e(P)	23 11 40	<u>Ryukyu Islands</u> 28.62°N 130.28°E
	e	11 45	H = 22 59 03.2 h = normal MAG=4.9
	e	12 05	D = 84.3° Az = 325.8° (USCGS)
			The first onset of P must be 7 s earlier.
27.	e	01 33 08.5	
27.	e(Sg)	11 56 42.5	
	e	56 50	
27.	e(Sg)	13 32 31.5	
27.	ePg	14 06 20.5	<u>Explosion/GDR</u>
	eSg	06 36	D = 1.2° Yield: 7 t
27.	ePg	15 49 42.5	<u>Explosion</u>
	eSg	49 58	D = 1.2°
	e	50 03.5	
	e	50 07	
27.	eP	19 08 41.5	<u>North of Svalbard</u> 82.42°N 6.97°W
	e	08 50	H = 19 02 13.0 h = normal MAG=4.4
			D = 32.4° Az = 157.7° (USCGS)
			PV1:1.4s 19.0nm PV2:1.8s 43.7nm
			MPV1=4.8 MPV2=5.1
27.	eP	22 19 39.5	<u>Andreanof Islands/Aleutian Is.</u> 51.40°N 178.50°E
			H = 22 07 43.4 h = 33 km MAG=5.2
			D = 78.0° Az = 353.4° (USCGS)
			PV1:1.4s 28.6nm
			MPV=5.2
27.	eP	22 23 17.5	<u>India-West Pakistan Border Region</u> 24.42°N 68.69°E
	e	23 20	H = 22 14 14.1 h = 5 km MAG=5.1 (USCGS)
	e	23 27.5	D = 50.8°
			PV1:1.4s 54.8nm MPV=5.5

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Day	Phase	h m s	Remarks
27.	e(P)	23 30 10	
	e	30 16.5	
	e	31 02.5	
28.	eP	00 16 24	<u>Taiwan Region</u> 24.38°N 122.49°E
	ePP	19 36	H = 00 03 56.8 h = normal MAG=5.7
	eS	26 44	D = 83.7° Az = 323.2° (USCGS)
	ePPS	28 00	PV:5.0s 0.8/um
	eSS	32.0	LmH:17s 3.7/um LmV:16s 3.4/um
	LmH	52.2	MPV=6.1 MLH=5.8 MLV=5.8
	LmV	58.3	
28.	ePKP	02 28(39)	<u>South of Fiji Islands</u> 22.18°S 179.65°W
	e	30 11	H = 02 09 53.4 h = 600 km MAG=4.9 (USCGS)
	e(pPKP)	30 57	D = 150.2°
28.	e	05 33 50	<u>Honshu/Japan</u> 36.78°N 138.02°E
	e	33 52	H = 05 21 23.8 h = 18 km MAG=4.5
	LmH	06 10.8	D = 81.0° Az = 328.7° (USCGS)
	LmV	11.5	LmH:14s 1.3/um LmV:15s 0.7/um
			MLH=5.5 MLV=5.2
			The first onset of P must be 11 s earlier.
28.	eP	06 05 57	<u>Southwestern Ryukyu Islands</u>
	LmH	49	23.75°N 125.08°E
	LmV	49	H = 05 53 15.1 h = 12 km MAG=5.2 (USCGS)
			D = 85.6°
			LmH:16s 0.5/um LmV:16s 0.7/um
			MLH=5.0 MLV=5.2
28.	eP	07 33 13	<u>Ryukyu Islands</u> 28.66°N 130.23°E
	LmH	08 15	H = 07 20 42.1 h = normal MAG=4.6
	LmV	15	D = 84.3° Az = 325.8° (USCGS)
28.	eP	22 02 06	<u>Andeanof Islands/Aleutian Is.</u>
	e	02 08	51.54°N 178.35°W
			H = 21 50 12.2 h = normal MAG=5.2 (USCGS)
			D = 77.8°

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Day	Phase	h m s	Remarks
29.	eP	04 07 48	<u>Kurile Islands</u> 46.45°N 153.17°E
	e	08 05	H = 03 55 53.0 h = normal MAG=4.7 (USCGS)
			D = 77.7°
29.	e(P)	10 44 25	
29.	ePKIKP	14 03 19	<u>Fiji Islands Region</u> 21.57°S 178.69°W
	ePKHKP	03 24.5	H = 13 44 32.9 h = 516 km MAG=5.2
	ePKP2	03 32.5	D = 149.9° Az = 346.9° (USCGS);
	epPKHKP	05 28.5	h = ca. 540 km
			PV1:2.0s 37.0nm PV2:1.8s 244nm
			PV3:1.3s 102nm PV4:1.9s 113nm
30.	eP	03 22 00	<u>Northern Columbia</u> 7.62°N 76.96°W
	e	22 12	H = 03 09 34.4 h = 32 km MAG=5.3
	e	22 26	D = 83.3° Az = 39.9° (USCGS)
30.	eP	14 57 58	<u>Jan Mayen Island Region</u> 71.30°N 7.12°W
	e	58 04.5	H = 14 53 00.8 h = normal MAG=4.5
	LmH	15(08)	D = 22.4° Az = 147.6° (USCGS)
	LmV	09	
30.	eP	19 40 03.5	<u>Tonga Islands</u> 15.17°S 174.10°W
			H = 19 20 36.2 h = 74 km MAG=4.6 (USCGS)
			D = 144.5°
31.	eP	07 54 52.5	<u>Fox Islands/Aleutian Is.</u> 52.27°N 169.70°W
	e	55 05	H = 07 42 59.5 h = normal MAG=4.7 (USCGS)
			D = 77.3°
31.	ePKIKP	19 10 32.5	<u>New Hebrides Islands</u> 19.33°S 167.81°E
			H = 18 51 01.5 h = normal MAG=5.0
			D = 143.5° Az = 334.4° (USCGS)

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Day	Phase	h m s	Remarks
1.	eP	02 45 52	<u>Rat Islands/Aleutian Is.</u> 51.51°N 176.24°E H = 02 33 56.3 h = 15 km MAG=5.1 (USCGS) D = 78.0°
1.	ePKIKP	04 07 42	<u>New Britain Region</u> 5.82°S 151.24°E H = 03 48 49.2 h = 61 km MAG=5.5 (USCGS) D = 124.2°
1.	ePKIKP e	10 34 03 34 08	<u>New Hebrides Islands</u> 13.82°S 166.64°E H = 10 14 43.2 h = 48 km MAG=5.5 (USCGS) D = 137.2°
1.	ePKIKP iPKHKP i	12 07 21 07 28.0 07 42.5	<u>Tonga Islands Region</u> 23.38°S 174.95°W H = 11 47 33.1 h = 24 km MAG=5.9 (USCGS) D = 152.3°
	ePP	11 10	PV:7s 0.7/ μm PV1:2.0s 51.8nm
	ePPP	14 40	PV2:2.0s 148nm PV3:2.0s 104nm
	LmH	13 22.8	PPV:6.5s 0.4/ μm
	LmV	22.8	LmH:20s 1.3/ μm LmV:20s 2.1/ μm MPPV=5.7 MLH=5.9 MLV=5.9
1.	ePKP	12 53 50	<u>New Hebrides Islands</u> 15.19°S 167.23°E H = 12 34 33.5 h = 93 km MAG=5.6 (USCGS) D = 139.5°
1.	e	16 03 08	
	e	03 14	
2.	-iP	03 39 48.0	<u>Rat Islands/Aleutian Is.</u> 51.08°N 175.97°E H = 03 27 53.3 h = 41 km MAG=6.0 (USCGS)
	e	39 50	H = 03 27 53.3 h = 41 km MAG=6.0 (USCGS)
	ePcP	39 57	D = 77.7° h = 46 km
	+epP	40 00.5	PV1:1.8s 156nm PV2:2.0s 142nm
	ePP	42 44	PcPV:1.4s 23.8nm pPV:2.0s 96.3nm
	ePPP	44 28	LmH:18s 1.1/ μm LmV:20s 1.6/ μm
	eS	49 34	MPV1=5.8 MLH=5.2 MLV=5.4
	eSPP	50 32	e 40 09
	LmH	04 18.5	
	LmV	18.5	

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Day	Phase	h m s	Remarks
2.	e	07 17 00.5	Explosion?
	e	17 05.5	
2.	eP epP	07 21 48.5 22 23.5	<u>Northern Celebes</u> 0.04°N 123.23°E H = 07 08 08.4 h = 185 km MAG=5.8 (USCGS) D = 103.7° h = 137 km Our finding of pP-phase is in very good agreement with ANUSSR-depth-calculation for this earthquake (h = 139 km).
2.	eP	08 18 04	<u>Fox Islands/Aleutian Is.</u> 52.94°N 167.03°W H = 08 06 15.9 h = 37 km MAG=4.2 (USCGS) D = 76.8°
2.	eP	08 34 46.5	<u>Fox Islands/Aleutian Is.</u> 53.08°N 166.54°W H = 08 23 03.9 h = 90 km MAG=4.6 (USCGS) D = 76.6°
2.	e(Sg)	08 37 51	Explosion?
2.	+eP e e	15 42 18 42 20.5 45 23	<u>Nevada</u> 37°N 116°W H = 15 30 00 h = 0 km (UPP) D = 81.2° PV:1.2s 45.5nm MPV=5.5 Underground explosion.
2.	ePKP LmV	17 13 40 18 31	<u>Tonga Islands</u> 18.60°S 173.44°W H = 16 53 56.6 h = normal MAG=5.0 D = 147.8° Az = 354.0° (USCGS) ANUSSR gives: 16.1°S 171.5°W H = 16 54 06 h = normal D = 145.5°
2.	e	18 43 44	
2.	eP e LmH	22 55 19 55 22 23 01	<u>Turkey</u> 38.51°N 27.41°E H = 22 51 27.2 h = 33 km MAG=4.5 (USCGS) D = 16.5°

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Day	Phase	h m s	Remarks
cont.			
2.	LmV	23 02.2	LmH:13s 0.95/ μ m LmV:10s 0.36/ μ m MLH=4.2 MLV=4.0
3.	ePn	03 17 17	<u>Austria</u> 47.4°N 11.0°E
	ePg	17 30.5	H = 03 16 26 (BCIS)
	eSn	17 54.5	D = 3.3°
	eSg	18 11.5	e 18 19
3.	+eP	14 12 18	<u>Nevada</u>
	e	12 28	H = 14 00 00 h = 0 km (UPP)
	e	12 32	D = 81.2°
	e	15 16	PV:1.2s 54.5nm
	ePP	15 23	MPV=5.6 Underground explosion.
3.	eP	18 53 43.5	<u>Southern Sumatra</u> 1.81°S 100.42°E
	e	53 51.5	H = 18 40 41.4 h = normal MAG=4.2 D = 90.6° Az = 320.5° (USCGS)
4.	LmH	02 31.1	<u>Taiwan</u> 23.03°N 121.37°E
	LmV	31.5	H = 01 36 37.0 h = 45 km MAG=4.3 (USCGS) D = 84.2° LmH:13s 0.36/ μ m LmV:16s 0.53/ μ m MLH=4.9 MLV=5.0
4.	+IP	05 19 42.5	<u>Hindu Kush Region</u> 36.34°N 70.80°E
	epP	20 29	H = 05 11 54.2 h = 207 km MAG=5.7 (USCGS)
	esP	20 53	D = 43.8° h = 220 km
	ePP	21 29.5	PV:1.4s 66.7nm
	e(sPP)	22 36	MPV=4.9
4.	IP	06 20 34	<u>Mediterranean Sea</u> 36.63°N 20.98°E
	e	20 43	H = 06 16 57.4 h = 80 km MAG=5.1 (USCGS)
	e	20 48	D = 15.4° h = 78 km
	esP	20 57	PV:0.7s 60.9nm
	LmH	25.5	

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Day	Phase	h m s	Remarks
4.	ePKP2	21 58 20.5	<u>Kermadec Islands Region</u> 29.92°S 178.85°W H = 21 38 16.3 h = 214 km MAG=4.2 (USCGS) D = 158.1°
5.	+eP	00 00 11.5	<u>Kurile Islands</u> 46.54°N 152.51°E
	epP	00 22.5	H = 23 48 17.8 h = 27 km MAG=5.9 (USCGS)
	esP	00 27	D = 77.5° h = 42 km
	e(Pa)	06 12	PV:1.6s 126nm pPV:1.6s 92.0nm
	eS	09 52	sPV:2.2s 382nm
	ePS	10 22	LmH:16.5s 5.9/ μ m LmV:17s 4.5/ μ m
	ePKPPKP	27 18	MPV=5.8 MLH=6.0 MLV=5.8
	LmH	34.6	
	LmV	37.7	
5.	LmH	05 38	<u>Taiwan Region</u> 24.67°N 122.33°E
	LmV	42.8	H = 04 49 53.2 h = normal MAG=4.7 (USCGS) D = 83.3° LmH:16s 0.6/ μ m LmV:16s 0.6/ μ m MLH=5.1 MLV=5.1
5.	eP	09 18 06	<u>Turkey</u> 39.06°N 29.58°E
	LmH	24	H = 09 14 05.6 h = 39 km MAG=4.4 (USCGS)
	LmV	25.2	D = 17.4°
5.	eP	20 55 39	<u>Southern Greece</u> 37.24°N 22.08°E
	e	55 48	H = 20 52 01.4 h = normal MAG=4.4
	LmH	21 01.1	D = 15.3° Az = 334.1° (USCGS)
	LmV	02.2	LmH:9s 0.85/ μ m LmV:10s 0.35/ μ m MLH=4.3 MLV=4.0
6.	ePKIKP	02 05 06	<u>New Hebrides Islands</u> 14.89°S 167.82°E
	e	05 11	H = 01 45 45.5 h = 37 km MAG=5.5
	ePP	08 02	D = 139.5° Az = 336.7° (USCGS)
6.	eP	05 09 33	<u>Turkmen SSR</u> 40.30°N 53.01°E
			H = 05 03 20.3 h = 27 km MAG=4.8
			D = 30.4° Az = 303.8° (USCGS)

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Day	Phase	h m s	Remarks
6.	+IP1	07 54 05.5	<u>Afghanistan-USSR Border Region</u>
	IP2	54 08.7	36.32°N 71.16°E
	ipP	54 54	H = 07 46 16.2 h = 225 km MAG=6.3 (USCGS)
	eisP	55 14	D = 44.3°
	IPP	55 55	PV1:2s 666nm PV:7s 14.5/um
	epPP	56 31	PH:7s 6.9/um pPV:4.8s 4.8/um
	esPP	56 55	sPV:(10s) 14/um sPH:10s 7.8/um
	eS	08 00 24	sPPV:8s 37.5/um sPPH:8s 30.8/um
	esS	01 43	SH:19s 18.2/um sSH:16s 26.8/um
	eSS	03 40	MPV=6.6 MPH=6.5 MSH=6.5
	esSS	04 48	e1 04 00 i 04 22 e1 05 00
	ePKPKPK	26 10	iP1 and iP2 are clearly separated in the shortperiod components only. The amplitude of P1 is approximately 4 times smaller than that of P2.
6.	+eP	21 00 43	<u>Mindanao/Philippine Islands</u>
	epP	00 53.5	9.63°N 126.36°E
	ePP	04 40	H = 20 47 11.5 h = 45 km MAG=5.7 (USCGS)
	ePPP	06 48	D = 97.8° h = 38 km
	eSKS	11 26	PV:6.5s 0.5/um PV1:2.0s 51.8nm
	eS	12 12	pPV:2.0s 51.8nm SKSH:9.5s 0.7/um
	LmH	51.3	SH:14s 0.9/um
	LmV	53.1	LmH:17s 4.3/um LmV:15.5s 5.1/um
			MPV=6.2 MPV1=5.7 MLH=6.0 MLV=6.1
7.	LmH	00 11.5	<u>Mindanao/Philippine Islands</u>
	LmV	13.5	9.74°N 126.64°E
			H = 23 07 30.4 h = 45 km MAG=5.3 (USCGS)
			D = 97.9°
			LmH:16s 0.5/um LmV:16s 0.5/um
			MLH=5.1 MLV=5.1
7.	+eP	01 13 28	<u>Near Coast of Peru</u> 14.95°S 75.84°W
	ePP	17 32	H = 00 59 46.6 h = 48 km MAG=5.5 (USCGS)
	eISKS	24 12	D = 100.0°
	eS	25 08	PV:15s 1.3/um PPV:12s 1.4/um
	ePS	26 38	SKSH:18s 2.6/um SH:20s 1.8/um
	eSPP	27 20	PSH:18s 2.9/um SPPV:18s 3.2/um
	eSS	31 48	LmH:17.5s 6.5/um LmV:18s 11.8/um

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Day	Phase	h m s	Remarks
cont.			
7.	LQ	01 41	MPV=6.3 MPPV=6.4 MLH=6.2 MLV=6.5
	LmH	59.7	e 13 47.5 e 14 24
	LmV	59.7	
7.	eP	11 57(18)	<u>Taiwan</u> 24.21°N 122.54°E
	e	57 21	H = 11 44 51.5 h = 41 km MAG=5.7
	eS	12 07 36	D = 83.9° Az = 323.3° (USCGS)
	LmH	39.7	LmH:15s 0.8/um LmV:15s 0.9/um
	LmV	39.8	MLH=5.3 MLV=5.3
7.	eP	14 13 32.5	<u>West Caroline Islands</u> 11.34°N 139.55°E
	-IP	13 34.2	H = 13 59 36.0 h = 50 km MAG=6.5 (USCGS)
	-i	13 39.0	D = 103.6°
	e	13 47	PV1:1.3s 25.6nm PV2:1.6s 190nm
	+IPP	17 52.5	PV3:1.8s 181nm PV4:3.0s 500nm
	ePPP	20 04	PPV:1.8s 312nm PPSH:20s 12.8/um
	eSKS	24 20	PKKPV:2.0s 66.6nm SSH:23s 17.9/um
	eSP	27(04)	LmH:19s 58.8/um LmV:19s 85.3/um
	ePPS	28 00	MPPV=7.6 MLH=7.1 MLV=7.3
	ePKKP	29 27	e 29 34 e 29 42
	eSS	32.8	
	ePKPKPK	37 44	
	LmH	15 03.1	
	LmV	04.3	
7.	ePKHKP	19 24 30	<u>Fiji Islands Region</u> 21.35°S 179.27°W
	ePKP2	24 37.5	H = 19 05 47.4 h = 606 km MAG=5.2
	epPKP	26 52.5	D = 149.5° Az = 346.3° (USCGS); h = ca. 610 km
			PV1:1.4s 23.8nm PV2:1.3s 30.1nm
8.	eP	06 36 21	<u>Kurile Islands</u> 46.33°N 152.31°E
			H = 06 24 25.8 h = normal MAG=4.5 (USCGS)
			D = 77.4°
8.	eP	10 58 40	<u>Taiwan Strait</u> 24.4°N 120.4°E
	LmH	11 41.5	H = 10 46 19 h = normal MAG=5 (ANUSSR)

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Moxa

Day	Phase	h m s	Remarks
cont.			
8.	LmV	11 41.5	D = 82.5° LmH:17s 0.55/ μ m LmV:17s 0.9/ μ m MLH=5.0 MLV=5.2
8.	eP	15 10 38	<u>Near Coast of Peru</u> 15.22°S 75.77°W
	LmH	(57)	H = 14 56 54.0 h = 39 km MAG=4.4 (USCGS)
	LmV	57.2	D = 100.0° LmV:15s 0.33/ μ m MLV=5.0
8.	+eP	20 08 03.5	<u>Near Islands/Aleutian Is.</u> 53.09°N 171.12°E
	ipP	08 11	H = 19 56 21.3 h = 20 km MAG=5.4
	ePP	10 56	D = 75.2° Az = 346.7° (USCGS); h = 28 km
	ePS	18 16	PV:1.6s 100nm pPV:1.5s 50nm
	LmH	44.0	PPV:2.4s 62.5nm
	LmV	48.2	LmH:16s 0.7/ μ m LmV:16s 0.6/ μ m MPV=5.7 MPPV=5.3 MLH=5.1 MLV=5.0
9.	eP	00 24 13	<u>Nicobare Islands</u> 7.60°N 94.12°E
	e(pP)	24 18	H = 00 12 12.1 h = 55 km MAG=5.3
	e(sP)	24 20.5	D = 79.4° Az = 320.0° (USCGS);
	ePS	34(52)	(h = 20 km)
	LmH	01 07	LmH:16s 0.8/ μ m LmV:16s 0.8/ μ m
	LmV	07.2	MLH=5.2 MLV=5.2 e 24 25.5 e 25 04
9.	eP	02 09 14	<u>Kurile Islands</u> 44.97°N 146.42°E H = 01 57 38.0 h = 160 km MAG=4.9 D = 77.0° Az = 332.4° (USCGS) PV:1.3s 18.6nm MPV=4.7 ANUSSR gives: 44.2°N 147.8°E H = 01 57 17 h = normal D = 78.1°
9.	e	03 30 52.5	
	e	31 11	

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Moxa

Day	Phase	h m s	Remarks
9.	+1P	07 05 18.5	<u>North of Severnaya Zemlya</u> 85.28°N 92.95°E
	e	05 22	H = 06 57 51.5 h = normal MAG=4.9 (USCGS)
	LmH	29.6	D = 39.0°
	LmV	29.6	PV:1.0s 28.2nm LmV:14s 0.3/ μ m MPV=5.1 MLV=4.3
9.	eP	07 22 33	<u>North of Severnaya Zemlya</u> 85.05°N 93.86°E H = 07 15 06.1 h = normal MAG=4.5 D = 39.1° Az = 268.3° (USCGS)
9.	ePP	11 37 40	<u>South of Honshu/Japan</u> 30.01°N 142.06°E
	eS	44 52	H = 11 21 15.8 h = 35 km MAG=4.8 (USCGS)
	LmH	12 14.8	D = 88.5°
	LmV	21	LmH:16s 0.4/ μ m LmV:16s 0.3/ μ m MLH=4.9 MLV=4.8
9.	ePg	14 18 50	<u>Switzerland</u> 46.6°N 7.3°E
	e(Sn)	19 24	H = 14 17 10 (BCIS)
	e(Sb)	19 45	D = 4.9°
	eSg	19 53.5	e 19 12 e 19 47.5
9.	-eP	15 51 15	<u>Kurile Islands</u> 44.33°N 147.60°E
	e	51 21.5	H = 15 39 27.8 h = 110 km MAG=5.5 (USCGS)
	e	51 28.5	D = 78.0°
	eS	16 01 00	PV:1.8s 194nm SH:5.5s 0.7/ μ m
	LmH	31	LmH:14s 0.35/ μ m LmV:16s 0.35/ μ m
	LmV	31	MPV=5.6 MSH=5.9
9.	eP	22 29 16	<u>South of Honshu/Japan</u> 30.11°N 142.25°E
	e	29 28	H = 22 16 22.1 h = 12 km MAG=5.1 (USCGS)
	ePP	32 43	D = 88.5°
	eS	40 00	PV2:2.0s 25.9nm SH:8s 0.6/ μ m
	eSS	46 04	LmH:15.5s 1.5/ μ m LmV:14s 1.1/ μ m
	LmH	23 10.0	MPV2=5.1 MSH=5.9 MLH=5.5 MLV=5.4
	LmV	16.0	P first motion is very small.
9.	eP	22 32(04)	<u>Southern Iran</u> 27.59°N 52.52°E
	e	32 06.5	H = 22 24 39.0 h = 8 km MAG=4.9 (USCGS)
			D = 38.5°

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Moxa

Day	Phase	h m s	Remarks
10.	+IP LmH	04 37 04.0 05 14	<u>Near Islands/Aleutian Is.</u> 52.02°N 174.98°E H = 04 25 14.3 h = normal MAG=4.9 D = 76.7° Az = 349.2° (USCGS) PV:1.8s 21.8nm MPV=5.0
10.	e(P) e	09 14(33) 14 41	<u>Rumania</u> 44.9°N 24.9°E H = 09 11 57 (BCIS) D = 10.6°
10.	eP e e LmH LmV	09 15 23 15 28 16 03 20.2 20.2	<u>Rumania</u> 44.9°N 24.9°E H = 09 12 44 (BCIS) D = 10.6° LmV:13s 0.4/ μm e 17 01.5 e 17 23
10.	LmH LmV	09 13.7 13.7	<u>Near Coast of Peru</u> 14.81°S 76.04°W H = 08 13 25.8 h = 22 km MAG=5.0 (USCGS) D = 99.9° LmH:19s 0.4/ μm LmV:19s 0.55/ μm MLH=5.0 MLV=5.1
10.	LmH LmV	10 48 48	<u>North Atlantic Ridge</u> 45.27°N 27.93°W H = 10 32 45.7 h = normal MAG=4.5 (USCGS) D = 26.8° LmV:16s 0.3/ μm MLV=4.0
10.	eP LmH LmV	10 52 34 11 03 03.0	<u>North Atlantic Ridge</u> 45.55°N 28.25°W H = 10 46 53.0 h = normal MAG=4.3 D = 26.9° Az = 64.5° (USCGS) LmH:16s 0.4/ μm LmV:16s 0.65/ μm MLH=4.1 MLV=4.3
10.	LmH LmV	13 28.5 28.5	<u>New Britain Region</u> 6.11°S 149.81°E H = 12 15 05.7 h = 53 km MAG=5.0 (USCGS) D = 123.6° LmH:22s 0.6/ μm LmV:22s 1.0/ μm MLH=5.2 MLV=5.4

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Moxa

Day	Phase	h m s	Remarks
10.	eP e e(pP) e(sP)	14 23 30.5 23 35 23 54 24 05	<u>Alaska Peninsula</u> 57.44°N 155.68°W H = 14 12 14.6 h = 67 km MAG=5.2 D = 71.8° Az = 8.5° (USCGS); (h = 94 km)
10.	eP	16 51 52	PV:1.0s 17.4nm
10.	eP e	19 23 04 23 37.5	<u>Near Islands/Aleutian Is.</u> 52.51°N 173.62°E H = 19 11 71.1 h = 45 km MAG=4.9 (USCGS) D = 76.1°
10.	eP eS eSS LmH LmV	22 22 25.5 28 44 31 55 37.1 37.5	<u>North Atlantic Ridge</u> 32.88°N 39.83°W H = 22 14 37.3 h = 8 km MAG=5.2 D = 41.4° Az = 48.9° (USCGS) LmH:16s 0.5/ μm LmV:18s 1.1nm LmV:17s 1.8nm MSH=5.3 MLH=4.8 MLV=5.1
10.	eP e e LmH LmV	22 51 25 51 39 51 45 23 14.8 15	<u>Mongolia</u> 45.12°N 99.68°E H = 22 41 48.5 h = normal MAG=5.1 D = 56.0° Az = 309.8° (USCGS) LmH:13.5s 1.0/ μm LmV:13s 0.6/ μm MLH=5.1 MLV=4.9
10.	eP e e e	23 35 53 35 57 36 02.5 36 36.5	<u>Norwegian Sea</u> 72.62°N 3.13°E H = 23 30 55.4 h = normal MAG=4.6 D = 22.4° Az = 165.7° (USCGS) PV1:1.4s 23.8nm PV3:1.6s 47.5nm MPV1=4.5
11.	eP epP esP eS LmH LmV	03 13 31.5 13 37 13 39 23 50 48.5 54.5	<u>Taiwan Region</u> 23.58°N 119.89°E H = 03 01 08.7 h = normal MAG=5.2 D = 82.9° Az = 322.5° (USCGS); h = 20 km LmH:16.5s 3.8/ μm LmV:15s 2.3/ μm MLH=5.9 MLV=5.7

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Moxa

Day	Phase	h m s	Remarks
11.	LmH	03 36.2	<u>Revilla Gigedo Islands</u> 19.24°N 108.12°W
	LmV	36.5	H = 02 37 38.7 h = 45 km MAG=5.3 (USCGS)
			D = 92.5°
			LmV:16s 0.6/ μm
			MLV=5.2
11.	eP	10 25 08.5	<u>Greece</u> 38.81°N 21.70°E
	eS	27(52)	H = 10 21 56.5 h = 62 km MAG=4.7
	eL1(3.71)	28 50	D = 13.8° Az = 332.2° (USCGS)
	eLg1(3.52)	29 12	LmH:12s 2.6/ μm LmV:12s 3.0/ μm
	eLg2(3.31)	29 40	MLH=4.5 MLV=4.7
	LmH	29.9	e 25 11.5 e 25 21.5
	LmV	31.1	
11.	eP	12 08 30	<u>Southern Greece</u> 37.46°N 21.19°E
	i	08 37.3	H = 12 05 03.2 h = 51 km MAG=4.8
	eS	11 16	D = 14.8° Az = 335.6° (USCGS)
	eLg1(3.48)	12 56	PV1:1.0s 21.7nm PV2:1.6s 74.0nm
	eLg(3.20)	13 38	LmH:12s 1.0/ μm LmV:13.5s 1.5/ μm
	LmH	15.4	MLH=4.2 MLV=4.4
	LmV	15.4	e 10 18 e 12 40
11.	eP	18 25 34	<u>Andeanof Islands/Aleutian Is.</u>
	e	26 18	51.56°N 178.41°W
	ePP	28 30	H = 18 13 40.6 h = 60 km MAG=5.9
	e	28 42	D = 77.8° Az = 353.5° (USCGS)
	LmH	19(04)	PV:1.4s 19.0nm
	LmV	(04)	MPV=5.0
12.	e	00 55 32	<u>Near West Coast of Honshu/Japan</u>
	e	55 41.5	37.23°N 138.16°E
	LmH	01 32.5	H = 00 43 21.2 h = 99 km MAG=4.7 (USCGS)
			D = 80.7°
			LmH:14s 0.5/ μm
			MLH=5.1
			Well developed surface waves in our sensitive longperiod records make the USCGS depth-calculation doubtful.

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Day	Phase	h m s	Remarks
12.	ePKHKP	16 52 49	<u>South of Fiji Islands</u> 22.75°S 178.66°W
	ePKP2	52 59	H = 16 33 42.3 h = 402 km MAG=4.5
			D = 151.0° Az = 346.4° (USCGS)
12.	eP	20 31 28	<u>South Atlantic Ocean</u> 2.95°S 28.21°W
	e	31 43	H = 20 20 58.1 h = 18 km MAG=5.0
			D = 63.3° Az = 27.1° (USCGS)
			PV:1.6s 18.4nm
			MPV=5.0
12.	e	21 32 33	
12.	eP	22 00 20	PV:1.4s 14.3nm
	e	00 29	
	e	02 13	
13.	LmH	01 29	<u>Iran</u> (USCGS)
13.	eP	03 00 47	<u>South of Panama</u> 7.6°N 82.6°W
	e	01 02.5	H = 02 48 06.1 h = 45 km MAG=4.2 (USCGS)
	ePP	04 16	D = 86.8°
13.	ePKP	04 19 39.5	<u>Tonga Islands</u> 16.79°S 174.02°W
	e	19 52.5	H = 04 00 02.3 h = 39 km MAG=4.9
	e(pPKP)	20 05	D = 145.9° Az = 353.6° (USCGS); (h = 91 km) PV1:1.0s 13.0nm PV3:1.5s 17.5nm
13.	ePKP	07 52 53	<u>New Hebrides Islands</u> 21.25°S 174.09°E
	ei	53 11	H = 07 33 13.4 h = 49 km MAG=5.9 (USCGS)
	e	53 56	D = 147.7°
	e	54 38	LmH:20s 3.7/ μm LmV:20s 4.7/ μm
	LmH	08 56.7	MLH=6.2 MLV=6.3
	LmV	56.7	e 08 21 12
13.	eP	12 48 34	<u>Greece</u> (UPP)
	e	48 43	

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Day	Phase	h m s	Remarks
13.	eP	13 11 06	<u>Greenland Sea</u> 73.84°N 8.66°E
	e	11 09	H = 13 06 00.0 h = normal MAG=4.4
			D = 23.3° Az = 175.2° (USCGS)
13.	eP	13 22 11.5	<u>Norwegian Sea</u>
			H = 13 17 04 (UPP)
13.	+1P	13 24 37.5	<u>Greenland Sea</u> 73.06°N 7.16°E
	e	24 42	H = 13 19 35.1 h = normal MAG=4.7
	LmH	34.2	D = 22.6° Az = 172.6° (USCGS)
	LmV	34.2	PV1:1.0s 21.8nm PV2:1.6s 47.4nm
			LmH:16s 0.2/ μm LmV:14s 0.3/ μm
			MPV1=4.6 MPV2=4.7 MLH=3.7 MLV=4.0
13.	eP	14 19 03	<u>Greenland Sea</u> 79.87°N 4.99°E
	e	19 18.5	H = 14 13 00.4 h = normal MAG=4.2
	e	19 23	D = 29.4° Az = 171.4° (USCGS)
	eS	24 00	LmH:14s 0.4/ μm LmV:14s 0.4/ μm
	LmH	32.9	MLH=4.2 MLV=4.2
	LmV	32.9	
13.	I	14 47 12.5	
13.	eP	14 52 22.5	<u>Greenland Sea</u> 73.29°N 7.41°E
	e	52 28.5	H = 14 47 21.6 h = normal MAG=4.3
			D = 22.8° Az = 173.1° (USCGS)
13.	+ePKP	18 27 21.5	<u>Santa Cruz Islands</u> 12.17°S 167.11°E
	1PKIKP	27 32.0	H = 18 08 38.4 h = 259 km MAG=6.2 (USCGS)
	epPKIKP	28 33	D = 136.8° h = 243 km
	1PP	30 12	PV1:1.8s 87.5nm PV2:5s 4.3/ μm
	epPP	31 07	PV3:9s 2.0/ μm PPV:7s 4.7/ μm
	ePa(8.25)	39 40	LmV:18s 3.1/ μm
	eSPP	41 40	MPPV=6.5
	eSS	47 56	e 27 28 e1 30 17 e 31(30) i 32 36
	LmV	19 20.2	e 44 56
			PKP is a small amplitude precursor.

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Day	Phase	h m s	Remarks
14.	eP	02 51 24	<u>Turkey</u> 38.13°N 42.76°E
	e	51 57	H = 02 45 57.0 h = 38 km MAG=4.7
	eS	56(00)	D = 25.3° Az = 309.7° (USCGS)
	LmH	03 02.4	LmH:15.5s 1.4/ μm LmV:17s 0.85/ μm
	LmV	03.6	MLH=4.6 MLV=4.4
14.	ePKHKP	02 57 24.5	<u>Fiji Islands Region</u> 20.82°S 178.62°W
	ePKP2	57 32	H = 02 38 37.2 h = 545 km MAG=4.6
			D = 149.2° Az = 347.2° (USCGS)
			PV:1.3s 20.9nm
14.	eP	12 04 52	<u>Mid-Atlantic Ridge</u> 8.14°N 37.27°W
	e	05 07	H = 11 54 57.8 h = normal MAG=4.7
	LmV	25.5	D = 58.5° Az = 34.2° (USCGS)
			LmV:24s 0.6/ μm
			MLV=5.7
14.	ePP	16 57 45	<u>Banda Sea</u> 5.30°S 124.45°E
	e	57 50	H = 16 39 50.5 h = 656 km MAG=5.4 (USCGS)
	e	17 00 14	D = 108.5°
14.	eP	21 15 47	<u>South of Honshu/Japan</u> 30.75°N 138.73°E
	epP	17 21	H = 21 03 48.3 h = 397 km MAG=5.1
	e	17 23	D = 86.5° Az = 329.4° (USCGS); h = 410 km
	e	17 31	PV:1.6s 26.3nm
	e	19 15	MPV=4.8
15.	ePKIKP	01 19 01	<u>Solomon Islands</u> 10.41°S 160.82°E
	e	19 12	H = 00 59 45.8 h = 31 km MAG=6.1
	1PP	21 30	D = 132.6° Az = 333.7° (USCGS)
	eSKP	22 28	PV1:2.8s 258nm PV2:2.2s 164nm
	ePKS	22 34	PPV:10.5s 10.2/ μm PKSH:10s 11.7/ μm
	1PPP	24 16	SKPV:12s 16/ μm
	eSS	39(16)	LmH:21s 240/ μm LmV:21s 357/ μm
	LmH	02 19.6	MPPV=7.0 MLH=7.9 MLV=8.0
	LmV	19.6	ei 20 10 ei 21 24
15.	e(PKP)	01 31 26	
15.	e(PKP)	01 32 03	<u>Solomon Islands</u> (UPP)

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Moxa

Day	Phase	h m s	Remarks
15.	e(PKP)	01 32 38	<u>Solomon Islands</u> H = 01 13(25) (UPP)
15.	ePKP	01 52 07	<u>Solomon Islands</u> 10.18°S 161.07°E
	ePP	54 41	H = 01 32 55.5 h = normal MAG=6.2
	e	54 44	D = 132.5° Az = 334.0° (USCGS)
	eSKP	55 31	
15.	eP	02 32 29	<u>Chiapas/Mexico</u> 17.24°N 94.85°W H = 02 19 47.8 h = 43 km MAG=4.3 (USCGS) D = 86.8°
15.	ePKIKP	03 22 46	<u>Solomon Islands</u> 10.21°S 160.71°E
	eSKP	26 11	H = 03 03 34.2 h = normal MAG=5.7 (USCGS) D = 132.3°
15.	e(PKP)	04 46 30	
15.	e	06 23 05	
	e	23 55	
15.	ePKIKP	06 33 02	<u>Solomon Islands</u> 10.14°S 160.97°E
	e	33 09	H = 06 13 52.3 h = 39 km MAG=5.9
	ePP	35 32	D = 132.4° Az = 333.9° (USCGS)
	eSKP	36 40	PPV:6.5s 0.55/ μ m
	e	43 36	LmH:20s 1.2/ μ m LmV:20s 1.5/ μ m
	LmH	07 33.9	MPPV=5.8 MLH=5.6 MLV=5.7
	LmV	33.9	e 48 00 e 49 08
15.	ePKP	08 13 19	<u>Solomon Islands</u> 10.34°S 161.25°E H = 07 54 10.8 h = normal MAG=4.7 D = 132.7° Az = 334.0° (USCGS)
15.	ePKP	16 55(38)	<u>Solomon Islands</u> 10.26°S 160.71°E
	e(PP)	58 15	H = 16 36 24.1 h = 18 km MAG=5.8 (USCGS)
	e	58 50	D = 132.3°
	e(SKP)	59 07.5	LmH:19s 0.75/ μ m LmV:19s 1.0/ μ m
	eSS	17 15 40	MLH=5.4 MLV=5.5
	LmH	55.2	
	LmV	55.2	

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Day	Phase	h m s	Remarks
15.	eP	18 15 05	<u>Nevada</u> H = 18 02 47 (UPP) D = ca. 81° Underground explosion.
15.	eP	23 37 25.5	<u>Kurile Islands</u> 44.18°N 149.05°E H = 23 25 27.0 h = 40 km MAG=4.9 D = 78.6° Az = 333.9° (USCGS)
16.	ePg	04 34 13	<u>Yugoslavia</u> 43.5°N 20.0°E
	e(Sn)	35 10	H = 04 30 59 (BCIS)
	eSg	36 29.5	D = 9.1°
	e	37 05	
16.	eP	10 15 21	<u>Off Coast of Michoacan/Mexico</u>
	LmH	11(05)	15.47°N 104.26°W H = 10 14 04.1 h = normal MAG=4.5 (USCGS) D = 93.6°
16.	e	14 48 58	
	e	49 48	
16.	e(PP)	14 52 58	<u>Solomon Islands</u> 10.23°S 160.87°E
	LmH	15 50	H = 14 31 28.0 h = 38 km MAG=5.1 (USCGS)
	LmV	50.5	D = 132.4° LmH:21s 0.4/ μ m LmV:22s 0.6/ μ m MLH=5.1 MLV=5.2
16.	eP	17 10 17	<u>Greenland Sea</u> 71.6°N 2.8°W
	e	10 19	H = 17 05 21 (BCIS)
	e	10 24	D = 22.0°
	eS	14 20	PV2:1.8s 46.8nm PV3:2.2s 118nm
	LmH	20.9	LmH:13.5s 0.5/ μ m LmV:13.5s 0.6/ μ m
	LmV	20.9	MPV2=4.6 MLH=4.1 MLV=4.2
16.	eP	18 11(00)	<u>North Atlantic Ridge</u> 12.86°N 44.51°W
	e	11 08	H = 18 01 01.8 h = 30 km MAG=4.8 (USCGS)
	eS	19(15)	D = 59.0°
	LmH	31.4	LmH:24s 0.75/ μ m LmV:23s 1.7/ μ m
	LmV	31.4	MLH=4.8 MLV=5.1 e 11 18 e 11 34

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Day	Phase	h m s	Remarks
17.	e	01 04 28	<u>Solomon Islands</u> 10.32° S 160.83° E
	ePP	06 51	H = 00 45 02.9 h = normal MAG=5.5 (USCGS)
	LmH	02 03.5	D = 132.5°
	LmV	03.5	LmV:24s 0.6/ μ m
			MLV=5.2
17.	eP	09 00 25.5	<u>Hokkaido/Japan</u> 42.38° N 142.86° E
	e	00 32	H = 08 48 33.2 h = 67 km MAG=4.8 (USCGS)
			D = 78.3°
17.	ePKHKP	10 22 52	<u>Fiji Islands Region</u> 21.90° S 178.83° W
			H = 10 04 02.2 h = 544 km MAG=4.8
			D = 150.2° Az = 346.6° (USCGS)
17.	+eP	18 41 03	<u>Republic of the Congo</u> 0.80° N 29.99° E
	e	41 31.5	H = 18 31 55.1 h = normal (USCGS)
	e	42 16	D = 52.0°
	LmH	19(09)	
17.	LmH	23(44)	<u>Taiwan Region</u> 25.08° N 122.39° E
	LmV	46	H = 22 52 28.3 h = 69 km MAG=4.7 (USCGS)
			D = 82.5°
			LmH:24s 0.8/ μ m
			MLH=5.0
18.	e(Pg)	08 00 03	Explosion
	eSg	00 23	(D = 1.5°)
18.	e(P)	14 33 13	LmH:17s 0.4/ μ m
	e	33 19	
	LmH	15 10.3	
	LmV	16	
18.	ePKP	19 34 15	<u>Near North Coast of New Guinea</u>
	e	34 19	3.26° S 143.19° E
	ePP	35 28	H = 19 15 24.4 h = 17 km MAG=5.2
	ePS	45.2	D = 117.7° Az = 327.4° (USCGS)
	eSS	51.8	PV2:1.8s 18.7nm
	LmH	20 30.5	LmH:16s 0.7/ μ m LmV:16.5s 0.9/ μ m
	LmV	30.5	MLH=5.4 MLV=5.5 e 35 38 e 36 10

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Moxa

Day	Phase	h m s	Remarks
18.	e(P)	00 15 45	
18.	iP	00 18 57.6	<u>Southeastern Alaska</u> 59.46° N 137.69° W
			H = 00 07 59.0 h = 27 km MAG=4.5 (USCGS)
			D = 67.3°
19.	ePn	04 13 24.5	<u>Yugoslavia</u> 46.13° N 14.13° E
	ePg	13 41.5	H = 04 12 12.5 h = normal MAG=3.7
	iSn	14 17.0	D = 4.8° Az = 340.6° (USCGS)
	iSg	14 46.0	i 13 28.0 e 14 23 e 14 34
19.	ePKP	08 11 28	<u>East New Guinea Region</u> 149.51° E 8.84° S
	ePP	13 23	H = 07 52 20.2 h = 54 km MAG=5.4 (USCGS)
	LmH	09 08	D = 125.8°
	LmV	08	PV:1.4s 23.8nm
			LmV:20s 0.6/ μ m
			MLV=5.3
19.	eP	17 59 23	<u>Turkey</u> 38.58° N 27.37° E
	e	59 27	H = 17 55 32.3 h = 31 km MAG=4.6
	e	59 32.5	D = 16.4° Az = 322.3° (USCGS)
	e	59 40	PV2:1.7s 44.5nm PV3:1.6s 52.6nm
	e	18 00 22	LmH:12s 2.3/ μ m LmV:11s 1.7/ μ m
	eS	00 32	MLH=4.6 MLV=4.6
	LmH	05.0	
	LmV	06.4	
19.	eP	19 40 36	<u>Andreanof Islands/Aleutian Is.</u>
	e	41 04	51.68° N 176.24° W
	LmH	20 19	H = 19 28 43.1 h = 57 km MAG=5.2 (USCGS)
	LmV	25	D = 77.7°
			LmH:18s 0.3/ μ m LmV:16s 0.3/ μ m
			MLH=4.7 MLV=4.7
20.	e	01 36 44	<u>Andreanof Islands/Aleutian Is.</u>
	LmH	02 15	51.49° N 178.61° W
			H = 01 24 12.9 h = 34 km MAG=5.1 (USCGS)
			D = 77.8°

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Day	Phase	h m s	Remarks
20.	ePKP	09 11 40	<u>Tonga Islands</u> 16.20°S 173.07°W
	e	11 58	H = 08 52 02.9 h = normal MAG=4.8
			D = 145.4° Az = 354.7° (USCGS)
			PV1:1.7s 27.8nm PV2:1.5s 40.0nm
20.	ePKHP	19 28 48	<u>Tonga Islands</u> 20.51°S 174.07°W
	e	28 58	H = 19 08 57.1 h = normal MAG=4.5
			D = 149.6° Az = 352.8° (USCGS)
21.	ePKIKP	01 02 29	<u>Santa Cruz Islands</u> 10.89°S 165.28°E
e(PP)		05 08	H = 00 43 13.5 h = 25 km MAG=5.3 (USCGS)
eSKP		06 00	D = 134.9°
eSKSP		15 10	LmH:18s 1.1/um LmV:18s 1.4/um
ePS		15 32	MLH=5.6 MLV=5.7
LmH		02 05.5	e 02 41.5 e 05 23
LmV		05.5	
21.	ePP	04 06 52	<u>Bonin Islands Region</u> 28.63°N 142.66°E
LmH		44	H = 03 50 19.2 h = 15 km MAG=4.9 (USCGS)
LmV		49	D = 90.0°
21.	ePKHP	07 31 46	<u>Tonga Islands</u> 20.16°S 174.31°W
LmH		08 44.5	H = 07 11 54.3 h = normal MAG=4.8 (USCGS)
LmV		47	D = 149.3°
			PV:1.7s 27.8nm
21.	LmH	13 54.7	<u>Honshu/Japan</u> 36.77°N 138.02°E
			H = 13 05 17.2 h = normal MAG=4.7 (USCGS)
			D = 81.0°
			LmH:12s 0.25/um
			MLH=4.8
21.	LmH	14 00	<u>Probably South Sandwich Island Region</u>
21.	LmH	14 45	<u>New Guinea</u> 5.20°S 144.56°E
LmV		45	H = 13 32 48.8 h = 42 km MAG=5.5 (USCGS)
			D = 120.1°
			LmH:21s 0.25/um LmV:21s 0.25/um
			MLH=4.9 MLV=5.0

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Moxa

Day	Phase	h m s	Remarks
21.	eP	15 59 35	<u>Hokkaido/Japan</u> 42.13°N 142.46°E
			H = 15 47 42.5 h = 72 km MAG=4.7 (USCGS)
			D = 77.9°
21.	eP	18 24 26	<u>Oaxaca/Mexico</u> 16.28°N 94.82°W
epP		24 46	H = 18 11 43.0 h = 62 km MAG=5.2 (USCGS)
LmH		19 05	D = 87.7° h = 75 km
LmV		05	
21.	+iP	23 18 11	<u>Kurile Islands</u> 50.13°N 157.76°E
e		18 22	H = 23 06 25.9 h = 14 km MAG=5.8
LmH		51.4	D = 75.5° Az = 338.5° (USCGS)
LmV		52.6	PV1:1.0s 65.1nm PV2:1.4s 35.7nm
			LmH:18s 1.0/um LmV:21s 0.8/um
			MPV1=5.7 MLH=5.2 MLV=5.0
22.	ePKP	02 09 28.5	<u>New Hebrides Islands</u> 17.49°S 167.19°E
			H = 01 49 52.8 h = 13 km MAG=5.1 (USCGS)
			D = 141.6°
22.	e(P)	06 51 19.5	
22.	eP	07 23(38)	<u>Near Coast of Chiapas/Mexico</u>
e		24 18	14.68°N 92.09°W
e		24 22	H = 07 11 00.8 h = 87 km MAG=5.1 (USCGS)
LmH		08 02	D = 87.2°
LmV		02	
22.	ePg	09 11 37	<u>Valais/Switzerland</u> 46.3°N 7.5°E
eSg		12 41	H = 09 09 53 (BCIS)
e		12 49	D = 5.2°
22.	eP	11 10 33	<u>Greenland Sea</u> 73.25°N 7.49°E
e		10 38	H = 11 05 30.4 h = normal MAG=4.2
			D = 22.8° Az = 173.2° (USCGS)
22.	eP	11 49 43.5	<u>Southern Alaska</u> 61.36°N 147.57°W
ipP		49 52.0	H = 11 38 53.7 h = 53 km MAG=5.2
i		50 04.0	D = 67.1° Az = 14.2° (USCGS); h = 35 km
			PV1:1.2s 31.8nm PV2:1.1s 66.7nm
			MPV1=5.4

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Moxa

Day	Phase	h m s	Remarks
22.	eP	19 02 20	<u>Kurile Islands</u> 45.35°N 149.24°E H = $18^{\circ} 50' 25.6''$ h = normal MAG=5.3 D = 77.6° Az = 333.9° (USCGS) ANUSSR gives: h = 120 km
22.	eP	20 42 41	<u>Banda Sea</u> 7.20°S 124.59°E
	epP	44 37	H = $20^{\circ} 29' 03.6''$ h = 507 km MAG=6.1 (USCGS)
	ePKIKP	46 36	D = 110.2° h = 525 km
	ePP	47 30	PV2:15s 1.7/ μm PPV:8s 1.2/ μm
	epPP	49 10	pPPV:12s 8.7/ μm SKSH:10s 3.0/ μm
	eSKS	52 32	PKKP1V:1.8s 144nm PKKP2V:2.0s 356nm
	eSP	55 55	PKPPKPV:1.9s 93.4nm
	ePKKP1	57 46.5	NPPV=6.2
-iPKKP2		58 00.0	e 47 20 e 47 44 e 54 16 e 54 50
	ePKPPKP	21 01 51	
	LmH	35	
	LmV	38.6	
23.	-1P	05 13 06	<u>Eastern Sea of Japan</u> 43.81°N 139.85°E
	e	13 11.5	H = $05^{\circ} 01' 42.4''$ h = 218 km MAG=5.5 (USCGS)
	ePcP	13 20	D = 76.2° h = 213 km
	epp	13 34	PV1:1.4s 143 nm PV2:1.2s 45.5nm
			MPV1=5.9
23.	eP	05 51 11.5	<u>Near West Coast of Honshu/Japan</u> 38.46°N 139.50°E
			H = $05^{\circ} 39' 17.5''$ h = 143 km MAG=4.7 (USCGS)
			D = 80.1°
23.	eP	09 47 48	<u>Angola</u> 14.36°S 21.83°E
			H = $09^{\circ} 37' 02.9''$ h = normal MAG=5.3 (USCGS)
			D = 65.5°
23.	e(P)	11 13 21.5	
23.	epP	22 04 25	<u>Near East Coast of Honshu/Japan</u>
	e	04 48.5	38.16°N 141.43°E
			H = $21^{\circ} 51' 57.4''$ h = 92 km MAG=5.0 (USCGS)
			D = 81.2°

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Moxa

Day	Phase	h m s	Remarks
24.	ePKIKP	08 37 25	<u>South of Fiji Islands</u> 26.73°S 177.34°W
	ePKHKP	37 34.5	H = $08^{\circ} 17' 49.1''$ h = 146 km MAG=5.3
	ePKP2	37 50	D = 155.2° Az = 346.4° (USCGS)
			PV1:1.7s 38.8nm PV2:1.5s 27.5nm
			PV3:1.6s 73.7nm
24.	ePg	13 07 04	Explosion
	iSg	07 18.5	D = 1.1°
24.	iPg	14 06 02.5	Explosion
	eiSg	06 18.2	D = 1.2°
24.	ePKP	14 06(26)	<u>South of Fiji Islands</u> 24.24°S 178.68°E
	epPKP	08 50	H = $13^{\circ} 47' 50.0''$ h = 619 km MAG=4.3 (USCGS)
			D = 151.9°
24.	ePg	15 01 57	Explosion
	eSg	02 13.5	D = 1.3°
24.	ePn	15 08 39	<u>Mid-Italy</u> 43.30°N 13.44°E
	ePg	09 15	H = $15^{\circ} 06' 50.9''$ h = normal MAG=4.9
	iSn	09 59.5	D = 7.5° Az = 351.0° (USCGS)
	eSg	10 52	
	eLg2(3.36)	10 59.5	
	eRg(3.03)	11(25)	
24.	eP	22 37 39	<u>Greece</u> 38.84°N 21.60°E
	eS	40 16	H = $22^{\circ} 34' 24.7''$ h = 25 km MAG=4.6
	eLg1(3.52)	41(40)	D = 13.8° Az = 332.3° (USCGS)
	eLg2(3.30)	42 10	e 37 48 e 38 12 e 38 36 e 42 26
25.	eP	01 59 00	<u>South of Honshu/Japan</u> 29.56°N 142.10°E
	e	59 07	H = $01^{\circ} 46' 10.4''$ h = 49 km MAG=5.5
	ePp	59 14	D = 88.9° Az = 331.0° (USCGS); h = 50 km
	ePP	02 02 33	PV:2.0s 44.5nm
	epPP	02 46	LmH:17s 1.9/ μm LmV:17s 1.6/ μm
	eS	09 46	MPV=5.3 MLH=5.6 MLV=5.5
	eSS	15 48	
	LmH	02 40.3	
	LmV	42.5	

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Moxa

Day	Phase	h m s	Remarks
25.	+1PKP	10 51 19.5	<u>New Hebrides Islands</u> 19.67° S 169.54° E
	epPKP	52 10	H = $10 32 07.6$ h = 199 km MAG=4.8
	esPKP	52 28.5	D = 144.5° Az = 335.7° (USCGS); h = 195 km
25.	eP	17 37 16	<u>Near Coast of Guatemala</u> 13.69° N 91.16° W
	epP	37 37	H = $17 24 38.9$ h = 119 km MAG=5.3 (USCGS)
			D = 87.4° h = 80 km
25.	ePKIKP	18 57 19	<u>New Britain Region</u> 5.00° S 151.36° E
			H = $18 38 35.7$ h = 123 km MAG=5.6 (USCGS)
			D = 123.4°
26.	LmH	00(11)	<u>Oaxaca/Mexico</u> 16.02° N 96.49° W
	LmV	(11)	H = $23 17 06.1$ h = 40 km MAG=4.8 (USCGS)
			D = 88.7°
26.	ePKHKP	07 09 06.5	<u>Tonga Islands</u> 21.24° S 174.32° W
			H = $06 49 17.6$ h = normal MAG=5.0
			D = 150.3° Az = 352.4° (USCGS)
26.	LmH	08 24.5	<u>Honshu/Japan</u> 36.79° N 138.11° E
	LmV	25	H = $07 34 55.8$ h = normal MAG=4.4 (USCGS)
			D = 81.0°
			LmH:13s 0.4/ μ m
			MLH=5.0
26.	eP	11 06 45	<u>Eastern India</u> 26.32° N 92.97° E
			H = $10 56 08.8$ h = 48 km MAG=5.0
			D = 64.8° Az = 315.9° (USCGS)
26.	e(P)	12 33 35	
26.	eP	13 21 59	<u>Turkey</u> 37.01° N 36.13° E
	e	22 07	H = $13 16 58.8$ h = normal MAG=4.5 (USCGS)
	LmH	(32)	D = 22.2°
	LmV	32	
26.	LmH	15 35	<u>Taiwan Region</u> 24.00° N 122.33° E
	LmV	36	H = $14 40 43.8$ h = normal (USCGS)
			D = 83.8°

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Moxa

Day	Phase	h m s	Remarks
26.	eP	23 41 47	<u>Szechwan Province/China</u> 31.90° N 104.01° E
	LmH	24 12.3	H = $23 30 52.5$ h = normal MAG=5.2
	LmV	12.3	D = 67.5° Az = 316.5° (USCGS)
27.	ePn	05 17(56)	<u>Italy</u> 44.4° N $\pm 0.2^{\circ}$ 12.3° E $\pm 0.2^{\circ}$
	ePg	18 30	H = $05 16 22$ (BCIS)
	e(Sb)	19 27	D = 6.3°
	eSg	19 54	e 18 09 e 20 15
	LmH	20.8	
27.	i	07 57 27	Near earthquake?
	e	08 28 04	
	e	29 15	
27.	e(PKHKP)	08 58 34	<u>Tonga Islands</u> 22.71° S 175.84° W
	i(pPKHKP)	58 49.4	H = $08 38 45.8$ h = 60 km MAG=5.3
			D = 151.5° Az = 350.0° (USCGS);
			(h = 55 km)
			PV2:1.4s 66.6nm
			The amplitude of the first onset is much smaller than the amplitude of the second onset.
27.	+1P	10 50 37.5	<u>Nepal-India Border Region</u>
	ePP	52 40	29.70° N 80.87° E
	e	53 46	H = $10 41 08.6$ h = 37 km MAG=6.1
	eS	58 18	D = 54.8° Az = 313.2° (USCGS)
	e	58 58	PV1:1.4s 252nm PV:10s 4.4/ μ m
	eSS	11 02 06	PH:10s 2.2/ μ m PPH:8s 1.7/ μ m
	LmH	16.5	PPV:8s 2.3/ μ m SH:15s 3.3/ μ m
	LmV	16.5	LmH:16s 14.5/ μ m LmV:15s 1.6/ μ m
	ePKPPKP	21(04)	MPV1=6.2 MPV=6.5 MPH=6.6 MPPH=6.5
			MPPV=6.3 MSH=6.1 MLH=6.2 MLV=6.3
27.	eP	10 59 18	<u>Nepal-India Border Region</u>
			29.76° N 80.66° E
			H = $10 49 50.0$ h = normal MAG=5.8
			D = 54.6° Az = 313.2° (USCGS)
			PV:1.2s 72.7nm
			MPV=5.7

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Moxa

Day	Phase	h m s	Remarks
27.	+IP	11 08 46.5	<u>Nepal-India Border Region</u>
	ei	08 51	29.68°N 80.99°E
	ei	09 00	H = 10 59 18.1 h = 40 km MAG=6.0
	1PP	10 54	D = 54.9° Az = 313.5° (USCGS)
	LmH	34.7	PV1:1.4s 228nm PV2:2.3s 1330nm
	LmV	34.7	PPV:12s 4.0/um
	ePKPPKP	39 13	LmH:13s 28.0/um LmV:14s 39.1/um MPV1=6.1 MPV2=6.7 MPPV=6.4 MLH=6.5 MLV=6.7
27.	eP	11 31 12	<u>Nepal-India Border Region</u> 29.68°N 80.79°E H = 11 21 43.3 h = normal MAG=5.4 D = 54.8° Az = 313.2° (USCGS) PV:1.0s 19.6nm MPV=5.2
27.	ePKP	12 33 39.5	<u>Tonga Islands</u> 16.40°S 174.83°W
	epPKP	34 02.5	H = 12 14 04.9 h = 80 km MAG=4.6 D = 145.4° Az = 352.8° (USCGS); h = 86 km PV:1.2s 20.5nm
27.	+eP	14 05 21	<u>Nepal-India Border Region</u>
	e	05 25	29.61°N 80.82°E
	e	05 33	H = 13 55 51.9 h = 35 km MAG=5.4 D = 54.8° Az = 313.3° (USCGS) PV:1.4s 50.0nm MPV=5.4
27.	e(Sg)	16 19 48	Vienna (VIE) gives: <u>Triest</u>
	e	20 21	
	e	20 34.5	
27.	e	16 49 57	
27.	ePKIKP	22 06 58	<u>North Island/New Zealand</u>
	-IPKP2	07 53.0	38.04°S 177.19°E
	epPKP2	08 20	H = 21 47 05.5 h = 54 km MAG=5.7
	ePP	11 36	D = 163.8° Az = 325.5° (USCGS); h = 93 km PV2:1.1s 55.5nm

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Day	Phase	h m s	Remarks
28.	eP	04 21 28	<u>Central California</u> 35.85°N 120.60°W
	e(sP)	21 33	H = 04 08 54.7 h = 5 km MAG=5.0
	e	21 37.5	D = 84.1° Az = 28.3° (USCGS); (h = 14 km) PV2:1.6s 47.3nm
28.	eP	04 38(48)	<u>Central California</u> 35.91°N 120.55°W
	e	38 51	H = 04 26 12.4 h = 4 km MAG=5.3
	e	39 03.5	D = 84.1° Az = 28.3° (USCGS)
	e	39 57	PV2:1.6s 73.6nm PV3:2.1s 125nm
	eS	49 14	PV4:2.3s 120nm
	eSS	54 40	LmH:24s 19.4/um LmV:17s 11.8/um
	LmH	05 12.0	MPV2=5.6 MLH=6.4 MLV=6.4
	LmV	20.1	
28.	e	12 41 07	Near earthquake?
	e	41 14	
	e	41 40	
28.	eP	17 00 07	<u>Northeast of Taiwan</u> 27.01°N 125.94°E
	e	00 08	H = 16 47 49.4 h = 100 km MAG=5.0
			D = 83.4° Az = 324.3° (USCGS)
			PV:1.8s 50.0nm
			MPV=5.3
29.	eP	00 52(17)	<u>Albania</u> 41.24°N 20.41°E
	e	52 24	H = 00 49 34.2 h = 17 km MAG=4.3
	e	52 27	D = 11.2° Az = 330.0° (USCGS)
	e	52 31.5	e 54 40.5 e 55 50 e 57(00)
29.	+IP	07 05 46.5	<u>Kazakh SSR</u> 49.93°N 78.01°E
	ePn	07 18.5	H = 06 57 58.1 h = 0 km MAG=5.7
	ePP	07 22.5	D = 41.1° Az = 297.5° (USCGS)
			PV:0.7s 148nm
			MPV=6.0
			Probably underground explosion.
29.	ePKP	07 57 57	<u>Tonga Islands</u> 19.40°S 174.25°W
	e	58 08	H = 07 38 14.0 h = 50 km MAG=4.5
			D = 148.5° Az = 352.9° (USCGS)

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Moxa

Day	Phase	h m s	Remarks
29.	1Pn	15 05 23.0	<u>Explosion/GFR</u> 9.86°E 51.22°N
	1Pg	05 24.0	H = 15 05 00
	1Sg	05 40.3	D = 1.2° Yield: 16.5 t
29.	eP	20 05 58	<u>Central-California</u> 35.84°N 120.53°W
	e	06 04.5	H = 19 53 24.1 h = 5 km MAG=4.9
	LmH	40.5	D = 84.1° Az = 28.3° (USCGS)
	LmV	45	LmH:18s 0.65/ μ m MLH=5.1
29.	ePKIKP	22 06 16	<u>New Hebrides Islands</u> 13.75°S 166.72°E
	ePP	09 05	H = 21 46 54.5 h = 35 km MAG=6.2
	ePKS	09 52	D = 138.0° Az = 336.4° (USCGS)
	LmH	23 09.8	LmH:21s 1.1/ μ m LmV:19s 1.6/ μ m
	LmV	15.5	MLH=5.6 MLV=5.8
29.	eP	23 03 51	<u>Taiwan Region</u> 24.22°N 122.55°E
	e	04 02	H = 22 51 22.7 h = normal MAG=5.2 (USCGS)
	e	04 10	D = 83.8°
	LmH	45.5	LmH:16s 0.7/ μ m LmV:16s 0.8/ μ m
	LmV	45.5	MLH=5.2 MLV=5.2
30.	ePKHKP	06 26 12.5	<u>Fiji Islands Region</u> 21.02°S 176.28°W
	e	26 18	H = 06 06 42.3 h = 169 km MAG=4.5 D = 149.8° Az = 350.0° (USCGS)
30.	-eIP	09 10 30.5	<u>Near Vladivostok/USSR</u> 43.59°N 132.18°E
	e	10 43	H = 08 59 48.3 h = 454 km MAG=5.4
	e	12 56	D = 72.9° Az = 325.0° (USCGS) PV:1.1s 62.0nm MPV=5.1
30.	eP	12 41 15	<u>Mindanao/Philippine Islands</u>
	e	41 21	9.57°N 126.67°E
	e	41 43	H = 12 27 41.9 h = 44 km MAG=5.4
	eS	52 42	D = 98.0° Az = 324.4° (USCGS)
	LmH	13 25.0	SH:12s 0.3/ μ m
	LmV	33.6	LmH:17s 1.2/ μ m LmV:17s 1.9/ μ m MLH=5.5 MLV=5.7

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Moxa

Day	Phase	h m s	Remarks
30.	-eP	15 57 50.5	<u>Taiwan Region</u> 24.38°N 122.15°E
	e	57 58	H = 15 45 26.0 h = 47 km MAG=5.4
	LmH	16 33.7	D = 83.5° Az = 323.1° (USCGS)
	LmV	39.3	PV:1.4s 24.8nm LmH:15s 0.5/ μ m LmV:18s 0.8/ μ m MPV=5.1 MLH=5.1 MLV=5.2
30.	e	19 23 27	Near earthquake.
	e	23 38	
30.	eP	19 24 16	<u>Yugoslavia-Albania Border Region</u>
	e	24 28.5	41.2°N 21.0°E
	LmH	28.0	H = 19 21 28 (BCIS)
	LmV	29.2	D = 11.5°
			LmH:12.5s 1.5/ μ m LmV:12s 0.7/ μ m MLH=4.1 MLV=4.0
30.	+iP	22 27 17.0	<u>Nevada</u>
	e	28 00	H = 22 15 00 (UPP)
	e	28 21	D = ca. 81°
	ePP	30 22.5	PV:1.2s 136nm PPV:1.4s 57.1nm
	LmH	23 05	LmV:16s 0.9/ μ m
	LmV	05.2	MPV=6.0 MPPV=5.6 MLV=5.3
			Underground explosion.

July 1966

Moxa

Day	Phase	h m s	Remarks
1.	+1P	06 02 55.0	<u>Taiwan Region</u> 24.80°N 122.47°E
	e	03 12	H = 05 50 39.2 h = 117 km MAG=6.4
	+1pP	03 25.0	D = 83.4° Az = 323.2° (USCGS);
	esP	03 38	h = 120 km
	-i(PP)	06 04.5	PV1:1.5s 395nm PV:5.5s 4.9/ μm
	-ePP	06 07	PH:5s 1.5/ μm PPV:1.7s 77.8nm
	eipPP	06 32	SH:14.5s 3.7/ μm PKKPV:1.4s 47.6nm
	eisPP	06 45	PKPPKPV:2.2s 52.5nm
	eIS	13 04	PKPPKPKPV:2.6s 57.1nm
	esS	13 49	LmH:14s 4.3/ μm LmV:14s 4.9/ μm
	eISS	18 28	MPV1=6.0 MPV=6.6 MPH=6.4 MSH=6.4
	eisSS	19 10	
	iPKKP	21 14.5	
	epPKKP	21 45	
	eSSS	22 05	
	ePKPPKP	29 15	
	epPKPPKP	29 46	
	LmH	44.3	
	LmV	44.3	
	ePKPPKPKP	49 40	
1.	eP	19 17 11	<u>Near Islands/Aleutian Is.</u>
	LmH	(50)	52.26°N 174.18°E
	LmV	(50)	H = 19 05 26.5 h = 56 km MAG=5.0
			D = 76.4° Az = 348.7° (USCGS)
			PV:1.3s 16.3nm
			MPV=5.0
1.	ePKHKP	19 39 19	<u>South of Fiji Islands</u> 23.74°S 179.88°W
	e	39 26	H = 19 20 21.9 h = 496 km MAG=4.1 (USCGS)
	ePKP2	39 30.5	D = 151.6°
1.	eP	20 30 08	<u>El Salvador</u> 13.68°N 88.44°W
			H = 20 17 49.3 h = 201 km MAG=5.3 (USCGS)
			D = 85.7°
			PV:1.1s 15.6nm
			MPV=5.1
2.	e	07 56 15	

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Moxa

Day	Phase	h m s	Remarks
2.	iP	11 30 44.5	<u>Uganda</u> 0.87°N 30.09°E
	i	31 21.0	H = 11 21 30.4 h = normal MAG=4.8 (USCGS)
			D = 52.0°
3.	eP	04 07 04	<u>Fox Islands/Aleutian Is.</u> 52.55°N 170.24°W
	ePcP	07 14	H = 03 55 15.7 h = 69 km MAG=5.3
	epP	07 25.5	D = 77.2° Az = 358.8° (USCGS); h = 82 km
3.	ePKIKP	04 29 19	<u>Tonga Islands</u> 21.11°S 174.23°W
	-1PKP2	29 30.5	H = 04 09 30.0 h = normal MAG=5.0 (USCGS)
	-i(pPKP2)	29 36.0	D = 150.3° (h = 20 km)
	LmH	05 37.5	PV1:2.6s 118nm PV2:2.0s 77.8nm
	LmV	37.5	PV3:1.8s 106nm
			LmH:20s 0.5/ μm LmV:20s 0.7/ μm
			MLH=5.3 MLV=5.4
4.	eIPKIKP	00 23 03	<u>Drake Passage</u> 58.85°S 69.25°W
	e(pPKIKP)	23 13.5	H = 00 03 54.6 h = normal MAG=4.8 (USCGS)
			D = 127.4° (h = 37 km)
4.	+1P	03 07 28.0	<u>Rat Islands/Aleutian Is.</u> 51.81°N 176.42°E
	e	07 33	H = 02 55 35.9 h = 28 km MAG=5.7
	-1(pP)	07 43.5	D = 77.1° Az = 350.1° (USCGS);
	e	07 54	(h = 60 km)
	e	08 17	PV:1.1s 40.0nm
	LmH	44.5	LmH:20s 0.3/ μm LmV:20s 0.45/ μm
	LmV	44.5	MPV=5.5 MLH=4.6 MLV=4.8
4.	ePKIKP	07 41 04.5	<u>South of Fiji Islands</u> 22.13°S 179.63°W
	-1PKHKP	41 10	H = 07 22 25.6 h = 600 km MAG=4.7
	ePKP2	41 19	D = 150.2° Az = 345.5° (USCGS)
	epPKP	43 32	PV2:1.3s 55.7nm PV3:1.3s 32.8nm
4.	eP	12 21 25	<u>Azores Islands Region</u> 37.54°N 24.76°W
	ePP	22 20	H = 12 15 28.1 h = normal MAG=5.5 (USCGS)
	eS	26(12)	D = 29.0°
	1S	26 18	PV:2.0s 148nm SH:13.5s 2.6/ μm
	LmH	32.2	LmH:16s 4.8/ μm LmV:18s 6.8/ μm
	LmV	32.2	MPV=5.5 MSH=5.7 MLH=5.2 MLV=5.4

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Moxa

Day	Phase	h m s	Remarks
4.	eP1	18 45 32.5	<u>Rat Islands/Aleutian Is.</u> 51.74°N 179.89°E
	-eP2	45 38	H = 18 33 35.7 h = 13 km MAG=6.2 (USCGS)
	-iP3	45 42.5	D = 77.7°
	+iP4	45 48.0	PV1:2.0s 40.7nm PV3:2s 260nm
	+iPP1	48 33	PV4:2.3s 930nm PPV1:2.0s 260nm
	+iPP3	48 44	SH4:11s 10/ μm
	+iPP4	48 48.5	LmH:16s 68/ μm LmV:16s 44.4/ μm
	eS1	55 22	MPV1=5.2 MPV3=5.8 MPV4=6.5 MPPV1=6.0
	eS2	55 28	MSH4=6.9 MLH=7.1 MLV=6.9
	eS3	55 32	Successive P-onsets with increasing amplitude. PP-onsets are very sharp in
	eS4	55 37	the shortperiod records and show constant amplitudes over a duration of about 27 s.
	ePKPPKP	19 12 47	
	LmH	24.5	
	LmV	29.7	
4.	eP	19 02 18	<u>Andreanof Islands/Aleutian Is.</u> 51.69°N 178.98°W H = 18 50 25.2 h = normal MAG=5.4 (USCGS) D = 77.5°
5.	eP	02 28 22	<u>Azores Islands</u> 37.49°N 24.62°W
	LmH	39.1	H = 02 22 23.9 h = 27 km MAG=4.8
	LmV	39.1	D = 28.9° Az = 51.2° (USCGS)
			LmH:13s 0.55/ μm LmV:16s 0.65/ μm
			MLH=4.3 MLV=4.4
5.	iP1	02 33 33	<u>Andreanof Islands/Aleutian Is.</u>
	eP2	33 38	52.22°N 178.36°W
	iP3	33 47.4	H = 02 21 43.8 h = 66 km MAG=4.9
	LmH	03 13.1	D = 77.2° Az = 353.5° (USCGS)
	LmV	17.9	PV2:1.4s 35.7nm PV3:1.7s 139nm
			LmH:17.5s 3.0/ μm LmV:16s 2.0/ μm
			MPV2=5.3 MPV3=5.8 MLH=5.7 MLV=5.4
			Multiple and clearly separated P-onsets with increasing amplitude. PV1 is very small.

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Moxa

Day	Phase	h m s	Remarks
5.	ePKP	03 41 50.5	<u>Tonga Islands</u> 15.22°S 174.95°W H = 03 22 45.2 h = 252 km MAG=5.1 (USCGS) D = 144.4° PV:1.6s 100nm
5.	+eIP	05 15 04	<u>Azores Islands</u> 37.59°N 24.64°W
	-ei	15 13.5	H = 05 09 03.6 h = 12 km MAG=5.1 (USCGS)
	eS	19(58)	D = 28.5°
	LmH	25.8	PV1:1.8s 50.0nm PV2:2.0s 63.0nm
	LmV	25.8	LmH:14.5s 1.4/ μm LmV:16s 1.8/ μm
			MPV1=5.0 MLH=4.7 MLV=4.8
5.	e(P)	16 00 38.5	
6.	e(P)	04 14 57	
6.	eP	04 27 09	<u>Southern Italy</u> 40.87°N 15.69°E
	eSn	28 57	H = 04 24 40.5 h = 25 km MAG=4.3
	ei	29 30	D = 10.2° Az = 345.2° (USCGS)
	eLg2(3.26)	30 28	
6.	e(P)	11 03 24.5	PV:0.9s 17.4nm
6.	eP	12 05 23	<u>Northern Pamir</u> 38.9°N 71.3°E
	e	05 34	H = 11 57 26 h = normal MAG=ca.5 (ANUSSR)
	e	07 20	D = 42.8°
	e	07 37	
6.	LmH	14 33	<u>Sinkiang Prov./China</u> (USCGS)
6.	e(PP)	19 43(00)	<u>Northern Easter I. Cordillera</u> 4.40°S 104.91°W
	e	43 14	H = 19 23 37.8 h = normal MAG=4.8 (USCGS)
	e	43 20	D = 110.0°
	e	43 28	LmH:20s 0.4/ μm LmV:18s 0.45/ μm
	LmH	20 29	MLH=5.0 MLV=5.1
	LmV	29	
6.	eP	20 34 29	<u>Ryukyu Islands</u> 25.81°N 128.00°E
	eS	44(58)	H = 20 21 43.5 h = 23 km MAG=5.3
	LmH	21 11.4	D = 85.5° Az = 325.1° (USCGS)

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Moxa

Day	Phase	h m s	Remarks
cont.			
6.	LmV	21 17.8	PV:1.6s 58.0nm LmH:16s 1.1/ μ m LmV:17s 1.1/ μ m MPV=5.5 MLH=5.4 MLV=5.3
7.	LmH	00 31.4	<u>Ryukyu Islands</u> 29.46°N 129.02°E
	LmV	37.6	H = 23 43 33.6 h = 31 km MAG=4.8 (USCGS) D = 83.0° LmH:16s 0.5/ μ m LmV:14s 0.3/ μ m MLH=5.0 MLV=4.8
7.	ePKP	23 41 46	<u>Tonga Islands</u> 17.80°S 173.60°W H = 23 22 07.3 h = 26 km MAG=5.3 D = 147.0° Az = 353.9° (USCGS)
8.	ePKP	22 32 10	<u>Tonga Islands</u> 19.04°S 174.49°W
	e	32 34	H = 22 12 23.2 h = 5 km MAG=5.3 D = 148.1° Az = 352.6° (USCGS)
9.	ePn	10 06 38	<u>Yugoslavia</u> 43.25°N 18.75°E
	ePg	07 23	H = 10 04 32 (BCIS)
	e(Sb)	08 54	D = 8.9°
	eSg	09 20	e 08 45 e 09 41
9.	-eIPKHKP	14 33 25.5	<u>Fiji Islands</u> 20.09°S 178.37°W
	ePKP2	33 31	H = 14 14 41.6 h = 559 km MAG=5.1 D = 148.5° Az = 347.8° (USCGS) PV:1.8s 50.0nm
9.	e(P)	18 21 51.5	
	e	22 04	
10.	ePKP	01 40 42	<u>Fiji Islands</u> 17.38°S 178.71°W H = 01 22 02.9 h = 532 km MAG=5.8 D = 145.8° Az = 348.3° (USCGS)
10.	eSg	03 47 48	<u>Eastern French</u> 47.4°N 6.4°E
	e	48 04	H = 03 45 15 (BCIS) D = 4.7°

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Moxa

Day	Phase	h m s	Remarks
10.	ePKIKP	10 20 32	<u>Kermadec Islands</u> 30.46°S 177.80°W
	e	20 40	H = 10 00 39.1 h = 40 km MAG=5.8
	ePKP2	21 08	D = 158.6° Az = 343.4° (USCGS);
	e(pPKP2)	21 20	(h = 43 km)
	ePP	24 43	PV1:2.2s 59.0nm PV3:1.6s 68.5nm
	LmH	11 27.5	
	LmV	32	
10.	ePn	13 31 22	<u>Alps</u> 46.4°N 13.4°E
	ePg	31 37.5	H = 13 30 15 (BCIS)
	eSn	32 14	D = 4.4°
	eSg	32(38)	e 31 53 e 32 26 e 32 31
10.	+1P	16 25 17.0	<u>Southwestern Ryukyu Islands</u>
	-1pP	25 27.0	24.24°N 125.18°E
	e(PP)	28 48	H = 16 12 41.5 h = 28 km MAG=5.9
	ePPP	30 30	D = 85.3° Az = 324.2° (USCGS); h = 37 km
	ePPPP	32 10	PV:2.3s 380nm SH:16s 2.2/ μ m
	eSKS	35 40	LmH:18s 15.5/ μ m LmV:15.5s 24/ μ m
	eS	35 48	MPV=6.2 MSH=6.1 MLH=6.5 MLV=6.7
	ePS	36 40	
	eSS	41 34	
	e(Sa)(4.75)	45 55	
	LmH	17 08.2	
	LmV	08.2	
10.	eP	19 10 53	<u>Ryukyu Islands</u>
			H = 18 58 06.8 h = 40 km (UPP)
10.	1P	22 16 55.0	<u>Southwestern Ryukyu Islands</u>
	LmH	23 59.7	24.78°N 125.27°E
	LmV	59.7	H = 22 04 24.4 h = 58 km MAG=5.4
			D = 84.9° Az = 324.2° (USCGS)
			PV:1.8s 112nm
			LmH:17s 0.4/ μ m LmV:17s 0.55/ μ m
			MPV=5.7 MLH=4.9 MLV=5.0

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Moxa

Day	Phase	h m s	Remarks
11.	e(Pg)	16 15 34	<u>Tirol/Austria</u> 47.2°N 10.8°E
	ei(Sn)	15 58	H = 16 14 29 (BCIS)
	i(Sb)	16 13.5	D = 3.5°
	i(Sg)	16 20.5	
11.	+eIPKHP	23 05 41	<u>Tonga Islands</u> 19.19°S 173.57°W
	e	06 00	H = 22 46 05.7 h = 120 km MAG=5.6
	ei(pPKP2)	06 19	D = 148.3° Az = 353.7° (USCGS);
	ePS	19 46	(h = 120 km)
	LmH	00 16.3	PV1:1.6s 63.0nm PV3:2.3s 190nm
	LmV	18.3	LmH:20s 1.3/ μm LmV:18s 1.0/ μm
			MLH=5.8 MLV=5.7
			ANUSSR gives: h = normal
12.	eP	00 09 21	<u>Turkey</u> 38.87°N 41.33°E
			H = 00 04 11.9 h = 64 km MAG=4.6
			D = 24.0° Az = 309.1° (USCGS)
12.	eP	03 00 23	<u>Mediterranean Sea</u> 35.52°N 22.44°E
	e	00 30.5	H = 02 56 23.5 h = 15 km MAG=4.9
	e	00 48	D = 17.0° Az = 335.9° (USCGS)
	es	03(36)	LmH:10.5s 2.7/ μm LmV:13.5s 2.0/ μm
	LmH	07.8	MLH=4.7 MLV=4.7
	LmV	07.9	e 03 46 e 04 06
12.	+IPKP	17 56 55.0	<u>Loyalty Islands</u> 21.49°S 170.51°E
	e	57(37)	H = 17 37 27.3 h = 134 km MAG=5.3
			D = 146.3° Az = 335.4° (USCGS)
			PV:1.4s 57.1nm
			ANUSSR gives: h = normal
12.	-IP	18 57 19.5	<u>Black Sea</u> 44.59°N 37.41°E
	+e	57 24	H = 18 53 08.5 h = 26 km MAG=5.9 (USCGS)
	es	19 00 38	D = 18.1°
	e	00 48	PV:2.0s 51.9nm SH2:11.5s 2.9/ μm
	e	02 30	LmH:21.5s 8.5/ μm LmV:17s 9.1/ μm
	ILg2(3.28)	03 22	MLH=5.0 MLV=5.2
	LmH	05.0	Between P and S are very long waves
	LmV	05.5	(T ca.45s), superimposed by shorter waves
			(T ca.2-6s) in our longperiod records.

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Moxa

Day	Phase	h m s	Remarks
cont.			
12.			LQ begins with periods from T ca.60s and shows very clear normal dispersion, superimposed by more high-frequency motion (T ca.3-10s). Well developed higher-mode surface waves.
12.	ePKHP	21 59 46	<u>Tonga Islands</u> 20.57°S 174.39°W
	e	59 49	H = 21 39 57.8 h = normal MAG=4.6
			D = 149.6° Az = 352.4° (USCGS)
13.	IPKHP	07 05 48.5	<u>South of Fiji Islands</u> 23.35°S 179.87°E
	IPKP2	05 59.0	H = 06 46 55.8 h = 540 km MAG=4.8 (USCGS)
			D = 151.2°
13.	eP	08 33 33	<u>Near Coast of Nicaragua</u> 12.63°N 87.73°W
	epP	33 49	H = 08 20 59.4 h = 61 km MAG=5.3 (USCGS)
	esP	33 55	D = 86.0° h = 60 km
	e	34 20	sPV:1.2s 72.6nm
	eS	43 54	LmH:21s 0.65/ μm LmV:21s 0.85/ μm
	LmH	09 08.0	MLH=5.0 MLV=5.2
	LmV	08.0	
13.	eP	10 39 48	<u>North Atlantic Ocean</u> 56.84°N 34.12°W
	LmH	50.5	H = 10 34 02.8 h = 24 km MAG=4.9
	LmV	51.7	D = 27.3° Az = 83.4° (USCGS)
			PV:1.4s 28.5nm
			LmH:13s 0.7/ μm LmV:13s 0.5/ μm
			MPV=4.8 MLH=4.3 MLV=4.3
13.	e(pPP)	14 58 55	<u>Northern Celebes</u> 0.10°S 122.80°E
			H = 14 40 25.6 h = 126 km MAG=5.0 (USCGS)
			D = 103.4°
			PV:1.7s 33.3nm
14.	eP	06 31 06	<u>Near S. Coast of Honshu/Japan</u>
	eS	41 24	35.57°N 139.98°E
	e(ss)	42 00	H = 06 18 47.6 h = 71 km MAG=5.0 (USCGS)
	ePPS	42 50	D = 82.6°
	LmH	07 15.5	PV:1.4s 28.6nm

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Day	Phase	h m s	Remarks
cont.			
14.	LmV	07 15.5	LmH:17s 0.6/um LmV:17s 0.85/um MPV=5.2 MLH=5.1 MLV=5.2 e 31 15 e 31 19
14.	ePKP	07 43 21	<u>Tonga Islands</u> 15.06°S 174.23°W H = 07 24 06.1 h = 189 km MAG=4.6 D = 144.2° Az = 353.6° (USCGS)
14.	eP	10 09 57	<u>Kurile Islands</u> 45.72°N 151.76°E H = 09 58 00.0 h = normal MAG=4.7 D = 78.0° Az = 335.3° (USCGS)
14.	eP	12 29 41	<u>Gulf of Alaska</u> 56.25°N 149.79°W
	e	29 48	H = 12 18 17.0 h = normal MAG=5.2 D = 72.4° Az = 12.3° (USCGS) PV:1.0s 34.8nm MPV=5.4
14.	e	15 56 12	<u>Polonia-CSSR Border Region</u>
	ePg	56 15	50.0°N 18.3°E
	e	56 28	H = 15 54 48 (BCIS)
	eSg	57 12	D = 4.3°
14.	e(P)	16 24 21	
14.	eP	18 18 45	<u>Near Islands/Aleutian Is.</u>
	epP	18 52	53.11°N 171.06°E
	e	19 18	H = 18 07 04.1 h = 29 km MAG=5.2 D = 75.2° Az = 346.6° (USCGS); h = 26 km PV:1.0s 26.1nm MPV=5.3
14.	eP	18 20 26	<u>Near Islands/Aleutian Is.</u>
	e	20 33	53.11°N 170.94°E
	e	20 49	H = 18 08 45.7 h = 29 km MAG=4.9 (USCGS) D = 75.2°
15.	eP	08 10 52.5	<u>Leeward Islands</u> 16.93°N 61.46°W
	e	11 29.5	H = 08 00 00.7 h = 89 km MAG=5.4 (USCGS)

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Moxa

Day	Phase	h m s	Remarks
cont.			
15.	e	08 11 35	D = 66.4°
	LmH	35	LmH:20s 0.25/um LmV:20s 0.45/um
	LmV	35	MLH=4.4 MLV=4.7
15.	ePg	13 57 54	<u>Explosion/CSSR</u> 49.6°N 13.7°E
	eSg	58 18	D = 1.7° Yield: 20 t
15.	e	23 53 35	<u>Greece</u> 38.8°N 21.5°E
	LmH	58.1	H = 23 50 08 h = normal (BCIS)
	LmV	00 00	D = 13.8°
			P must be 11 s earlier than the given first motion.
16.	ePKIKP	07 39 08	<u>Santa Cruz Islands</u> 10.88°S 165.92°E
	LmV	08 40	H = 07 19 55.8 h = 68 km MAG=5.2° (USCGS)
			D = 135.2°
16.	LmH	20 08.0	<u>Kirgiz-Sinkiang Border Region</u>
	LmV	11.0	40.67°N 74.22°E
			H = 19 43 27.4 h = normal MAG=4.8 (USCGS)
			D = 43.7°
			LmH:15.5s 0.75/um LmV:12s 0.65/um
			MLH=4.7 MLV=4.8
17.	+1PKP	02 43 42	<u>Loyalty Islands</u> 21.62°S 169.86°E
	e	43 56	H = 02 24 06.9 h = 63 km MAG=5.2
	e	44 01	D = 146.4° Az = 334.8° (USCGS)
			PV:1.2s 77.3nm
17.	eP	08 57 08	<u>Southern Alaska</u> 61.91°N 152.01°W
			H = 08 46 25.8 h = 103 km MAG=4.8
			D = 67.0° Az = 11.2° (USCGS)
17.	eP	10 20 22	
17.	1PKP	16 23 59.5	<u>Tonga Islands</u> 19.62°S 175.67°W
			H = 16 04 37.1 h = 220 km MAG=4.9 (USCGS)
			D = 148.4°

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Day	Phase	h m s	Remarks
17.	e(P)	16 58 25	
17.	e	20 59(34)	
	e	21 00 52	
18.	ePKIKP	01 07 09	<u>South of Fiji Islands</u> 23.09°S 176.76°W
	ePKHKP	07 16	H = 00 47 36.2 h = 138 km MAG=4.7 (USCGS)
	ei	07 20	D = 151.8°
18.	eP	02 04 48	<u>Carlsberg Ridge</u> 8.36°N 58.50°E
	eS	12 46	H = 01 55 02.1 h = normal MAG=4.9
	LmV	33	D = 57.2° Az = 326.4° (USCGS)
			PV:2.4s 68.2nm
			MPV=5.3
18.	eP	04 51 33	<u>Near East Coast of Honshu/Japan</u>
			38.42°N 141.53°E
			H = 04 39 23.9 h = 74 km MAG=4.7 (USCGS)
			D = 81.0°
18.	eP	10 08 24	<u>Arabian Sea</u> 13.10°N 57.60°E
	eS	15 52	H = 09 59 10.0 h = normal MAG=5.1
	LmH	(35)	D = 52.8° Az = 324.9° (USCGS)
	LmV	(35)	PV:2.4s 91.0nm
			MPV=5.5
18.	e(P)	13 10 28	
18.	eP	19 47 28	<u>Carlsberg Ridge</u> 7.6°N 58.5°E
	e	47 38	H = 19 37 37 h = normal (ANUSSR)
	e	47 44	D = 57.8°
18.	ePKIKP	22 34 42	<u>West Chile Rise</u> 38.30°S 93.74°W
	e	35 23	H = 22 15 38.3 h = normal MAG=5.1
	e	35 28.5	D = 127.5° Az = 50.7° (USCGS)
	e	35 37.5	PV:1.8s 22nm
	LmV	23 23.9	LmH:20s 0.4/um LmV:17s 0.5/um
	LmH	28	MLH=5.1 MLV=5.3

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Day	Phase	h m s	Remarks
19.	eP	00 26 02	<u>North Atlantic Ocean</u> 55.50°N 35.37°W
	eS	30 52	H = 00 20 11.0 h = normal MAG=4.6 (USCGS)
	LmV	38.6	D = 28.2°
	LmH	39.3	LmH:13s 0.6/um LmV:14s 0.9/um MLH=4.4 MLV=4.6
19.	LmH	01 37.1	LmH:15s 0.8/um LmV:14s 0.4/um
	LmV	39.2	
19.	-eP	01 52 13	<u>Komandorsky Islands</u> 56.20°N 164.90°E
	eS	02 01 32	H = 01 40 53.9 h = 18 km MAG=5.4
	eSP	01 53	D = 71.2° Az = 342.4° (USCGS)
	ePPS	02 12	PV:5.5s 0.6/um SSH:15s 2.2/um
	eSS	06 06	LmH:15.5s 16/um LmV:16.5s 13/um
	eSSS	09 20	MPV=5.9 MLH=6.4 MLV=6.3
	LQ	14.6	
	LmH	26.3	
	LmV	30.0	
19.	eP	02 10 56	<u>North Atlantic Ocean</u> 55.35°N 34.85°W
			H = 02 05 06.4 h = normal MAG=4.5 (USCGS)
			D = 27.9°
19.	e	11 21 33.5	
19.	+eP	19 32 28	<u>Andreanof Islands/Aleutian Is.</u>
	-ipP	32 40.5	51.73°N 173.30°W
	e	32 54	H = 19 20 33.4 h = 47 km MAG=5.5
	eS	42(18)	D = 77.9° Az = 356.8° (USCGS); h = 47 km
	eSS	47.6	PV:1.6s 105nm pPV:1.6s 110nm
	LmH	20 16.2	LmH:18.5s 1.5/um LmV:18.5s 1.5/um
	LmV	16.3	MPV=5.7 MLH=5.4 MLV=5.4
20.	e(P)	10 19(19)	<u>Greece</u> 38.86°N 21.38°E
	e	19 28	H = 10 16 07.2 h = 32 km MAG=4.7
	e	19 37	D = 13.7° Az = 332.8° (USCGS)
	LmH	25.3	
20.	e(Sg)	11 27 47	

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Day	Phase	h m s	Remarks
20.	LmH	11 55.5	<u>Northern Easter Is. Cordillera</u> (USCGS)
20.	LmH	14 25.5	<u>Northern Easter Is. Cordillera</u>
	LmV	26	13.31°S 111.40°W H = 13 22 54.0 h = normal MAG=5.0 (USCGS) D = 120.9° LmH:22s 0.4/ μm MLH=5.1
21.	ePKIKP	03 53 05	<u>Macquarie Island</u> 52.77°S 160.29°E
	ePKHKP	53 23.5	H = 03 33 09.6 h = 34 km MAG=5.6
	ePKP2	53 47	D = 160.5° Az = 276.3° (USCGS) ANUSSR gives: 53.1°S 150.9°E H = 03 33 19 h = normal MAG=5½ D = 155.0°
21.	+IP	04 05 47	<u>Eastern Kazakh SSR</u> 49.71°N 77.92°E
	ePn	07 18.5	H = 03 57 57.8 h = 0 km MAG=5.6
	ePP	07 22	D = 41.2° Az = 297.7° (USCGS) PV:1.1s 66.0nm MPV=5.5 Probably underground explosion.
21.	LmH	07 36	<u>Probably Macquarie Islands</u> 52.66°S 160.54°E H = 05 50 01.1 h = normal MAG=5.2 (USCGS) D = 160.8°
21.	eP	09 14 22	<u>Fox Islands/Aleutian Is.</u> 52.05°N 170.04°W H = 09 02 27.2 h = 30 km MAG=5.3 D = 77.7° Az = 358.9° (USCGS)
21.	eP	10 14 43.5	<u>Andreanof Is./Aleutian Is.</u> 51.53°N 173.28°W H = 10 02 48.3 h = 47 km MAG=4.7 D = 78.1° Az = 356.8° (USCGS)
21.	-ePKIKP	18 48 49	<u>Fiji Islands</u> 17.80°S 178.60°W
	ePKHKP	48 51	H = 18 30 14.9 h = 591 km MAG=5.6 (USCGS)
	eSS	19 10.3	D = 146.3° PV1:1.5s 35.0nm PV2:1.7s 203nm

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Day	Phase	h m s	Remarks
22.	e	03 25 26.5	
22.	eP	03 48 43	<u>Northern Sinkiang Prov./China</u>
	e	49 20	42.78°N 84.53°E
	ePP	50 34	H = 03 39 59.7 h = normal MAG=5.2 (USCGS)
	LmH	04 10.1	D = 48.6°
	LmV	10.1	LmH:12s 0.8/ μm LmV:13s 1.2/ μm MLH=5.0 MLV=5.1
22.	ePKIKP	08 44(56)	<u>New Hebrides Islands</u> 15.99°S 167.95°E
	e	45 30.5	H = 08 25 54.7 h = 187 km MAG=5.5 (USCGS)
	e	45 52	D = 140.7°
	ePP	48(00)	
22.	eP	09 07 37	
22.	+IP	10 29 16.5	<u>Andreanof Is./Aleutian Is.</u> 51.70°N 173.55°W
	i	29 18.0	H = 10 17 22.5 h = 56 km MAG=5.6 (USCGS)
	eS	39 10	D = 78.0°
	ePS	39 52	PV1:1.2s 59.0nm PV2:1.5s 210nm
	eSPP	40 14	LmH:19.5s 3.0/ μm
	eSS	44(25)	MPV1=5.6 MPV2=6.1 MLH=5.7
	LmH	11 12.4	
22.	e(P)	13 31 18	PV:1.2s 22.8nm
23.	e	01 55 36	<u>Northwest of Cornwall/GB</u> 50.5°N 5.5°W
	eSg	55 58.5	H = 01 50 00 (BCIS)
	e(Lg2)	56 09	D = 10.8°
	e	56 21	
23.	eP	03 49 51	<u>Andreanof Is./Aleutian Is.</u> 51.72°N 173.57°W
	epP	50 03	H = 03 37 55.8 h = 41 km MAG=4.7
	e	50 11	D = 77.9° Az = 356.6° (USCGS); h = 46 km PV:1.2s 22.7nm MPV=5.2

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Day	Phase	h m s	Remarks
23.	e	05 34(43)	<u>Greece</u> 39.0°N 21.8°E
	e	35 05	H = 05 28 28.5 (Athen)
	LmH	(38)	D = 13.7°
	LmV	(38)	e 35 52 e 36 26 e 36 45
23.	eP	08 38 05	<u>Andreanof Is./Aleutian Is.</u> 51.86°N 173.52°W
	epP	38 13	H = 08 26 10.1 h = 33 km MAG=4.7
	e	38 14	D = 77.8° Az = 356.7° (USCGS); h = 30 km
	LmH	09(21)	
23.	e(P)	11 54 18	
23.	+eP	14 43 45	<u>Andreanof Is./Aleutian Is.</u> 51.70°N 173.46°W
	ePcP	43 55	H = 14 31 51.2 h = 55 km MAG=5.3
	epP	44 02	D = 77.9° Az = 356.7° (USCGS); h = 65 km
	esP	44 09	PV:1.4s 85.6nm
	eS	53 34	LmH:17s 2.1/ μm LmV:18.5s 0.8/ μm
	e(PS)	54 22	MPV=5.8 MLH=5.6 MLV=5.1
	eSS	58.6	e 43 50.5 e 43 58.5
	LmH	15 27.1	
	LmV	27.6	
23.	eP	15 38 12	<u>Andreanof Is./Aleutian Is.</u> 51.65°N 173.56°W
	e	38 21.5	H = 15 26 16.1 h = 51 km MAG=4.3 (USCGS)
	epP	38 25.5	D = 77.8°
23.	eP	20 23 56	<u>Andreanof Is./Aleutian Is.</u> 51.84°N 173.47°W
	epP	24 08	H = 20 12 00.1 h = 36 km MAG=4.9 (USCGS)
			D = 78.1° h = 44 km
			PV1:1.0s 21.7nm PV2:1.2s 20.5nm
			MPV=5.2
24.	eP	05 16 18	<u>West Pakistan</u> 30.09°N 69.93°E
			H = 05 07 39.5 h = 9 km MAG=4.3
			D = 47.6° Az = 312.8° (USCGS)
24.	e	06 49 04	
	e	49 56	
	e	50 18	

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Day	Phase	h m s	Remarks
24.	ePKP	09 11 49	<u>Samoa Islands</u> 16.34°S 172.77°W
	e	12 00	H = 08 52 13.4 h = 49 km MAG=4.8
	e	12 14	D = 145.6° Az = 355.1° (USCGS)
	LmH	10 23.5	LmH:17s 0.25/ μm LmV:18s 0.3/ μm
	LmV	23.5	MLH=5.1 MLV=5.1
24.	ePKIKP	17 37 49.5	<u>Tonga Islands</u> 20.40°S 175.81°W
	-ePKHKP	37 53.5	H = 17 18 17.6 h = 112 km MAG=5.2
	ePKP2	37 58.5	D = 149.3° Az = 350.7° (USCGS)
	epPKP	38 30	PV2:1.4s 81.0nm PV3:1.3s 37.2nm
	esPKP	38 46	
25.	eP	09 30 32	<u>Fox Islands/Aleutian Is.</u> 52.09°N 169.95°W
	e	30 44	H = 09 18 36.7 h = 31 km MAG=4.3 (USCGS)
	e	30 53	D = 78.0°
			ANUSSR gives: Bering Sea 53.9°N 172.1°W
			H = 09 19 17 h = 280 km
			D = 74.5°
25.	e	12 43 02	
26.	eP	03 59 47	<u>Komandorsky Islands</u> 56.15°N 164.57°E
	epP	59 54	H = 03 48 28.8 h = normal MAG=4.8 (USCGS)
			D = 71.4° h = 26 km
26.	ePKP	06 03 06	<u>Fiji Islands</u> 17.99°S 178.46°W
			H = 05 44 30.9 h = 596 km MAG=4.3
			D = 146.4° Az = 348.4° (USCGS)
26.	eP	13 02 14	<u>Andreanof Is./Aleutian Is.</u> 51.97°N 173.48°W
			H = 12 50 19.3 h = 36 km MAG=4.8
			D = 77.7° Az = 356.7° (USCGS)
26.	ePKIKP	22 59 24	<u>Kermadec Islands</u> 27.54°S 177.89°W
	ePKHKP	59 34	H = 22 39 47.8 h = 143 km MAG=5.2
	ePKP2	59 52	D = 155.8° Az = 345.1° (USCGS)
	e	23 00 16	
	e	00 32	

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Day	Phase	h m s	Remarks
27.	eP	05 02 58	<u>Chile</u> 24.2° S 70.3° W
	ePP	07 10	H = 04 48 59.4 h = 35 km MAG=6.0 (USCGS)
	eSKS	13 40	D = 103.5°
	ePS	16 24	LmH:23s 0.8/ μ m LmV:24s 1.6/ μ m
	ePPS	17(25)	MLH=5.2 MLV=5.5
	LmH	46.5	e 07 14 e 07 36
	LmV	46.5	
27.	eP	14 55 33	<u>West Iran</u> 32.58° N 48.80° E
	e	55 37	H = 14 49 02.0 h = 36 km MAG=5.5
	e	55 46	D = 32.7° Az = 314.6° (USCGS)
	e(Pn)	56 13	LmH:14s 0.8/ μ m LmV:15s 0.7/ μ m
	es	15 00 48	MLH=4.6 MLV=4.5
	LmH	11.6	
	LmV	12.1	
28.	ePKP	01 37 59.5	<u>New Hebrides Islands</u> 17.20° S 167.74° E
	e	38 06	H = 01 18 27.4 h = 17 km MAG=5.3 (USCGS)
	e	38 11	D = 141.5° Az = 335.5°
	eSKP	41 37	LmV:20s 0.6/ μ m
	LmH	02(45.5)	MLV=5.4
	LmV	57	
28.	ePn	02 01 21	<u>Yugoslavia</u> 43.1° N 18.0° E
	ePg	02 08	H = 01 59 17 (BCIS)
	eSn	02 57	D = 8.8°
	e(Sg)	04(00)	e 02 20 e 03 52 e 04 08
28.	e(P)	08 08 28	
28.	ePKIKP	12 27 41	<u>Kermadec Islands</u> 29.04° S 177.47° W
	ePKP2	28 13	H = 12 07 52.5 h = 59 km MAG=5.4
	epPKP2	28 35	D = 157.4° Az = 344.9° (USCGS); h = 75 km
	LmV	13 33.5	PV2:1.4s 38.1nm
28.	ePKP	20 19 06.5	<u>New Hebrides Islands</u> 19.56° S 168.74° E
		H = 19 59 37.5 h = 52 km MAG=4.6	
		D = 144.1° Az = 335.0° (USCGS)	

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Day	Phase	h m s	Remarks
29.	eP	06 38 03.5	<u>Ryukyu Islands</u> 28.96° N 129.38° E
	LmH	07 13.5	H = 06 25 35.2 h = 21 km MAG=4.9 (USCGS)
			D = 82.8°
			LmH:17s 1.0/ μ m
			MLH=5.3
29.	ePKP	12 05 26	<u>Solomon Islands</u> 10.50° S 162.82° E
	ePP	07 54	H = 11 46 15.6 h = 75 km MAG=5.4 (USCGS)
			D = 133.5°
29.	1Pg	15 05 20.5	<u>Explosion/GFR</u> 50.54° N 10.04° E
	1Sg	05 36	H = 15 05 00 Yield: 15 t
			D = 1.0°
29.	eP	20 00 03	<u>Kurile Islands</u> 46.50° N 152.63° E
			H = 19 48 09.9 h = normal MAG=4.6 (USCGS)
			D = 77.5°
30.	ePn	05 21 30	<u>Yugoslavia</u> 43.01° N 17.79° E
	ePg	22 14	H = 05 19 24.5 h = 31 km MAG=4.3
	eSn	23 06	D = 8.7° Az = 333.2° (USCGS)
	e(Sg)	24 03	e 23 34 e 23 59 e 24 15
30.	eP	17 52 53	<u>Mindanao/Philippine Is.</u> 9.13° N 126.64° E
			H = 17 39 18.8 h = 36 km MAG=5.4 (USCGS)
			D = 98.4°
30.	eP	20 39 36	<u>North of Severnaya Zemlya</u> 84.50° N 104.23° E
			H = 20 32 00.7 h = 29 km MAG=4.8
			D = 40.1° Az = 279.2° (USCGS)
31.	e(PKP)	12 07 07	
	e(PP)	09(02)	
	e	09 07	
31.	eP	15 26 28	<u>Uganda</u> 0.66° N 30.07° E
			H = 15 17 18.8 h = normal MAG=4.8 (USCGS)
			D = 52.2°

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Day	Phase	h m s	Remarks
1.	e	03 44 30	<u>Solomon Islands</u> 10.19° S 161.07° E
	ePP	44 36	H = 03 23 03.1 h = 70 km MAG=5.7 (USCGS)
	e	44 40	D = 132.5°
	LmH	04 41	
	LmV	41	
1.	iP	06 37 50.0	<u>Rat Islands/Aleutian Is.</u> 51.53° N 177.59° E
			H = 06 25 57.6 h = 43 km MAG=5.2
			D = 77.5° Az = 350.9° (USCGS)
			PV:0.8s 26.0nm
			MPV=5.4
1.	eP	12 03 11.5	<u>Mariana Islands</u> 21.70° N 142.93° E
	e	03 26	H = 11 50 15.5 h = 313 km MAG=4.8 (USCGS)
			D = 96.2°
1.	e(P)	16 08 24.5	PV:1.1s 22.3nm
1.	+eIP	19 18 26	<u>West Pakistan</u> 29.89° N 68.84° E
	ipP	18 32.0	H = 19 09 55.1 h = normal MAG=5.8 (USCGS)
	isP	18 35.0	D = 47.0° h = 26 km
	+eIPP	20 20	PV:1.2s 59.1nm
	eS	25 16	LmH:14.5s 13.3/ μ m LmV:13s 12.3/ μ m
	eSS	29 00	MPV=5.5 MLH=6.1 MLV=6.1
	eLQ	29.9	1 18 35.0 i 18 42.0 e 29 10
	LmH	43.0	
	LmV	43.4	
1.	eIP	19 29 08	<u>West Pakistan</u>
			H = 19 20 37.9 (UPP)
1.	ePKHKP	20 05 03.5	<u>Tonga Islands</u> 19.67° S 174.33° W
			H = 19 45 17.3 h = normal MAG=5.0
			D = 148.7° Az = 352.7° (USCGS)
1.	+IP	20 39 26.0	<u>West Pakistan</u> 29.95° N 68.60° E
	epP	39 34	H = 20 30 57.0 h = normal MAG=5.7 (USCGS)
	esP	39 38	D = 46.8° h = 35 km
	ePP	41 16	PV:1.7s 139nm SH:11s 1.2/ μ m
	e(PPP)	42 08	MPV=5.8 MSH=5.8

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Day	Phase	h m s	Remarks
cont.			
1.	eS	20 46 12	ei 39 28.5 e 39 42 e 39 50.5
	eIS	46 22	
	eSS	49.8	
	eLQ	50.9	
1.	+IP	20 44 01.8	<u>Kurile Islands</u> 44.56° N 150.39° E
	+i	44 04.0	H = 20 32 01.3 h = 24 km MAG=5.2 (USCGS)
	i	44 09.0	D = 78.7°
	i	44 11.5	PV1:1.2s 50.0nm PV2:1.7s 145nm
	i	44 14.5	MPV1=5.5 MPV2=5.8
	e	44 20	
1.	e(P)	20 57 11	
	e	57 19	
	e	57 22	
1.	+eP1	21 11 27.5	<u>West Pakistan</u> 30.0° N 68.7° E
	-IP2	11 29.5	H = 21 02 59.6 h = 33 km MAG=6.2 (USCGS)
	IP3	11 34.0	D = 47.0°
	eP4	11 40	PV1:1.6s 52.7nm PV2:2.0s 378nm
	ePP1	13 16	PV3:2.1s 1070nm PV4:11s 6.0/ μ m
	ePP4	13 30	LmH:14.5s 65.2/ μ m LmV:15s 86.0/ μ m
	eS1	18 20	MPV1=5.4 MPV2=6.1 MPV3=6.6 MPV4=6.6
	eS4	18 34	MLH=6.8 MLV=6.9
	LmH	36.8	The body wave onsets are multiple with
	LmV	36.8	successively increasing amplitude
1.	eP	21 44 13	<u>West Pakistan</u> 29.87° N 69.02° E
	e	44 15	H = 21 35 40.8 h = 29 km MAG=4.8 (USCGS)
			D = 47.2°
1.	eP	22 39 24.5	<u>West Pakistan</u> 29.97° N 68.90° E
	e	40 32.5	H = 22 30 54.8 h = normal MAG=5.2 (USCGS)
			D = 46.9°
			PV:1.6s 52.7nm
			MPV=5.4

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Day	Phase	h m s	Remarks
1.	ePKHKP	23 55 08	<u>West of Macquarie Island</u> 55.86° S 146.95° E
	epPKHKP	55 15	H = 23 35 08.1 h = normal MAG=4.9 (USCGS) D = 153.3° h = 25 km
2.	eP	05 50 06.5	<u>West Pakistan</u> 29.97° N 68.76° E
	e	50 10	H = 05 41 37.4 h = 32 km MAG=5.2
	e(pP)	50 15.5	D = 46.9° Az = 312.9° (USCGS); (h = 39 km)
2.	eP	09 27 30.5	<u>West Pakistan</u> 29.89° N 69.21° E
	e	27 33	H = 09 18 57.6 h = 21 km MAG=5.1 D = 47.3° Az = 313.0° PV1:1.1s 15.5nm PV2:1.0s 36.9nm MPV1=5.0 MPV2=5.4
2.	e	14 11 07	
2.	eP	19 00 52	<u>Honshu/Japan</u> 36.49° N 138.11° E
	e	01 02	H = 18 48 33.8 h = 2 km MAG=4.9
	LmH	38	D = 81.3° Az = 328.8° (USCGS)
	LmV	38.9	PV2:1.8s 22nm LmH:13.5s 1.3/ μ m LmV:14.5s 0.7/ μ m MLH=5.5 MLV=5.2 The first onset of P is very small.
3.	eP	04 37 41.5	<u>Kurile Islands</u> 45.03° N 150.08° E
	e(pP)	37 57	H = 04 25 43.8 h = 31 km MAG=4.5
	LmH	05 15.5	D = 78.1° Az = 334.4° (USCGS); (h = 60 km)
	LmV	15.5	PV1:1.9s 58.9nm PV2:1.7s 30.5nm LmV:20s 0.5/ μ m MPV=5.4 MLV=4.9
3.	e	11 42 23	
	e	42 26.5	

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Day	Phase	h m s	Remarks
3.	LmH	11 48.5	<u>Ryukyu Islands</u> 27.00° N 127.17° E
	LmV	55.5	H = 11 00 19.1 h = 48 km MAG=5.2 (USCGS) D = 84.0° LmH:18s 0.6/ μ m LmV:16s 0.5/ μ m MLH=5.0 MLV=5.0
4.	eIP	22 37 54	<u>West Pakistan</u> 29.84° N 68.58° E
	e	37 59	H = 22 29 27.8 h = 54 km MAG=4.9 (USCGS) D = 46.8°
5.	eP	01 12 09.5	<u>Kashmir-Tibet Border Region</u>
	i	12 11.5	32.60° N 79.64° E
	e(S)	19 38	H = 01 03 04.4 h = 55 km MAG=5.3
	e	23 40	D = 52.1° Az = 311.5° (USCGS)
	LmH	36.3	PV2:1.9s 66.6nm
	LmV	36.3	LmH:14s 0.75/ μ m LmV:14s 0.9/ μ m MPV2=5.4 MLH=4.9 MLV=5.0
5.	+1P	04 05 46.5	<u>Eastern Kazakh SSR</u> 49.90° N 78.02° E
	ePn	07 18.5	H = 03 57 58.1 h = 0 km MAG=5.7
	ePP	07 22	D = 41.1° Az = 297.5° (USCGS)
	LmH	23.8	PV:0.8s 76.0nm PPV:1.6s 26.4nm
	LmV	23.8	MPV=5.7 MPPV=4.8 Probably underground explosion.
5.	e(PP)	04 54 41	<u>Solomon Islands</u> 10.95° S 162.32° E
X	e	54 51	H = 04 33 07.4 h = 93 km MAG=5.7 (USCGS)
	LmH	05(58)	D = 133.7°
	LmV	59.2	LmV:17s 0.85/ μ m MLV=5.5
5.	ePn	17 50 03.5	<u>Yugoslavia</u> 42.35° N 19.19° E
	ePg	50 55	H = 17 47 42.9 h = normal MAG=5.2
	eSn	51 52	D = 9.8° Az = 330.5° (USCGS)
	e	52 12	PV:1.2s 22.7nm
	eSg	53 07	LmH:7.5s 0.85/ μ m LmV:7.5s 0.4/ μ m
	LmH	53.6	MLH=4.0
	LmV	54.5	i 50 22.0 e 52 50

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Day	Phase	h m s	Remarks
5.	1P	20 12 10.5	<u>Bonin Islands</u> 28.55°N 139.64°E H = 20 00 04.9 h = 437 km MAG=4.9 (USCGS) D = 88.8° PV:1.4s 14.3nm MPV=4.9
6.	-ePn	02 33 27	<u>Yugoslavia</u> 42.25°N 18.77°E
	e1Pg	34 18.5	H = 02 31 07.8 h = normal MAG=5.3
	e1Sn	35 20	D = 9.7° Az = 332.1° (USCGS)
	1Sb	35 56.5	PV:1.4s 95.0nm
	1Sg	36 30	LmH:7.5s 4.6/ μm
	LmH	36.9	MLH=4.7
	LmV	37	e1 34 03 e1 35 03
6.	e	05 27 33	Near earthquake?
	i	28 37.0	
	e	28 57	
6.	+1Pn	05 54 19.5	<u>Yugoslavia</u> 42.21°N 18.77°E
	e1Pg	55 10	H = 05 51 56.7 h = 11 km MAG=5.4
	eSn	56 11	D = 9.8° Az = 332.1° (USCGS)
	eSb	56(50)	PV:1.3s 32.6nm
	e1Sg	57 20	LmH:7s 1.7/ μm LmV:10s 1.0/ μm
	LmH	57.8	MLH=4.3
	LmV	58.3	1 54 23.0 e1 57 05
6.	eP	18 36 06	<u>Southern Greece</u> 37.89°N 22.29°E
	e	36 08.5	H = 18 32 34.2 h = 55 km MAG=4.4 (USCGS)
	e	36 13.5	D = 14.9°
	e	36 18	PV2:1.2s 15.9nm PV3:1.2s 27.3nm
	LmH	42.3	PV4:1.7s 41.6nm
	LmV	42.3	LmH:10.5s 0.4/ μm LmV:10.5s 0.4/ μm
			MLH=3.8 MLV=4.0
6.	eP	18 42 04	<u>Norwegian Sea</u>
	epP	42 13.5	H = 18 37 03 (UPP)
	esP	42 18	D = ca. 23° h = 35 km

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Day	Phase	h m s	Remarks
6.	eP	19 45 20	<u>Kurile Islands</u> 44.91°N 150.20°E
	epP	45 29	H = 19 33 22.3 h = 36 km MAG=5.0
	esP	45 33	D = 78.3° Az = 334.5° (USCGS); h = 35 km
	e	45 42	PV:1.9s 60.0nm
	LmH	20 22.5	LmH:15s 0.5/ μm LmV:16s 0.7/ μm
	LmV	27	MPV=5.4 MLH=5.0 MLV=5.1
6.	eP	20 17 33	<u>Greenland Sea</u> 73.51°N 7.60°E
	e	17 37	H = 20 12 31.7 h = normal MAG=4.6
	epP	17 42	D = 23.0° Az = 173.4° (USCGS); h = 33 km
	esP	17 47	PV1:1.2s 20.4nm PV2:1.4s 23.8nm pPV:1.6s 39.4nm spV:1.6s 36.8nm MPV=4.5
6.	eP	20 31 28	<u>Kurile Islands</u> 44.83°N 150.21°E
	i	31 34.5	H = 20 19 30.1 h = 41 km MAG=4.7
			D = 78.3° Az = 334.5° (USCGS)
			PV:1.3s 20.9nm MPV=5.1
6.	e(P)	22 56 25	
7.	-1P	02 25 07.5	<u>Aleutian Islands</u> 50.58°N 171.33°W
	-i	25 08.0	H = 02 13 05.1 h = 39 km MAG=6.5
	i	25 09.5	D = 79.1° Az = 358.1° (USCGS); (h = 110 km)
	-i(pP)	25 36	
	ePP	28 05	PV1:0.5s 28.2nm PV2:1.2s 127nm
	ePPP	29 56	PV3:2.2s 1960nm PV:8s 11.8/ μm
	eS	35(00)	PH:6s 4.1/ μm SH:10s 14/ μm
	1S	35 07	LmH:19.5s 15.1/ μm LmV:17s 13.2/ μm
	1SP	35 44	MPV1=5.6 MPV2=5.9 MPV3=6.9 MPV=7.1
	1SS	40 12	MPH=7.1 MSH=7.0 MLH=6.4 MLV=6.3
	ePKPPKP	52 00	ei 25 15 e 25 40 e1 35 52
	LmH	03 03.8	Relatively small surface waves. It seems
	LmV	13.5	to be possible, that the USCGS-depth- calculation gives a too small depth of the focus. The interpretation of -i 25 36 as pP-phase would coincide very well with the ANUSSR-depth-calculation (h = 120 km).

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Day	Phase	h m s	Remarks
7.	ePKH KP	14 01 02	<u>South of Fiji Islands</u> 23.97° S 179.86° W
	ePKP2	01 13.5	H = 13 42 07.8 h = 537 km MAG=4.7 D = 151.9° Az = 344.4° (USCGS) PV2:1.2s 20.5nm
7.	iP	14 22 55.5	<u>Gulf of Alaska</u> 59.63° N 144.42° W
	e	23 01	H = 14 11 51.2 h = 4 km MAG=5.5
	i	23 04.5	D = 68.4° Az = 16.1° (USCGS)
	eS	32 00	PV:1.0s 32.6nm
	LmH	59	LmH:16s 0.35/ μ m LmV:15s 0.45/ μ m
	LmV	59.5	MPV=5.4 MLH=4.7 MLV=4.8
7.	eP	14 34 32	<u>Southern Greece</u> 36.45° N 22.23° E
	e	34 34	H = 14 30 47.0 h = 54 km MAG=4.5
	e	34 40	D = 16.1° Az = 335.0° (USCGS)
	LmH	41.7	LmH:14s 0.75/ μ m LmV:12s 0.75/ μ m
	LmV	41.7	MLH=4.0 MLV=4.2
7.	e(P)	17 49(01)	<u>Gulf of California</u> 31.76° N 114.45° W
	eP	49 07	H = 17 36 26.7 h = normal MAG=6.3 (USCGS)
	e	49 14	D = 85.1°
	e	49 19	PV1:10s 0.55/ μ m PV2:2.3s 45nm
	eS	59 35	PV3:2.5s 116nm PV4:2.1s 117nm
	ePS	18 00 28	SH:14s 3.8/ μ m
	eSS	05 05	LmH:16s 23.7/ μ m LmV:17s 33.6/ μ m
	eLQ	11.4	MPV1=5.7 MPV2=5.2 MPV3=5.6 MSH=6.4
	LmV	25.7	MLH=6.7 MLV=6.8
	LmH	27.3	e 49 27 e 49 35 e 49 51 1 50 09.5 1 50 30.0
7.	ePKP	19 41 54	<u>Loyalty Islands</u> 20.27° S 168.61° E
			H = 19 22 21.6 h = normal
			D = 144.7° Az = 334.5° (USCGS)
7.	+iP	20 30 35.0	<u>Hokkaido/Japan</u> 42.34° N 143.01° E
	e(pP)	30 58	H = 20 18 41.5 h = 66 km MAG=5.1 (USCGS)
	e	31 11	D = 78.4° (h = 90 km) PV:1.0s 21.7nm MPV=5.2

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Day	Phase	h m s	Remarks
8.	LmH	01 27	<u>Honshu/Japan</u> 36.59° N 138.03° E
	LmV	27.5	H = 00 37 22.4 h = 49 km MAG=4.5 (USCGS) D = 81.0° LmH:13s 0.8/ μ m LmV:13.5s 0.4/ μ m MLH=5.3 MLV=4.9
8.	e	02 08 36	<u>Probably Yugoslavia</u>
	e	09 20	Vienna (VIE) gives: D = 6.5°
	e	09 34	
8.	eP	08 15(56)	<u>Revilla Gigedo Islands</u> 19.33° N 108.13° W
	ePP	19 38	H = 08 02 45.8 h = normal MAG=5.4
	eSKS	26 32	D = 92.6° Az = 33.6° (USCGS)
	ePPS	28 14	PPV:8.0s 0.35/ μ m
	eSS	33 10	LmH:15.5s 2.4/ μ m LmV:15s 3.2/ μ m
	LmH	09 01.7	MPPV=5.8 MLH=5.8 MLV=5.9
	LmV	01.8	e 16 10 e 19 40
8.	ePKP	22 57 15	<u>Loyalty Islands</u> 20.1° S 168.5° E
	e	57 20	H = 22 37 41.9 h = 37 km MAG=4.1 (USCGS)
	e	57 26	D = 144.5° PV:1.2s 15.9nm
9.	ePn	01 07 57	<u>Yugoslavia</u> 42.23° N 18.96° E
	ePg	08 50	H = 01 05 35.5 h = normal MAG=4.2
	eSn	09 49	D = 9.8° Az = 331.5° (USCGS)
	e(Sg)	10 51	LmH:7s 0.55/ μ m
	LmH	11.4	MLH=3.8
	LmV	12.5	
9.	iPn	03 37 03	<u>Albania</u> 40.29° N 19.85° E
	e	38 53	H = 03 34 14.3 h = normal MAG=5.0
	e	39 48	D = 11.9° Az = 333.6° (USCGS)
	eLg2(3.29)	40 56	LmH:11.5s 1.7/ μ m LmV:12s 2.1/ μ m
	LmH	42.8	MLH=4.3 MLV=4.5
	LmV	42.8	

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Day	Phase	h m s	Remarks
9.	eP	11 25 18	<u>Costa Rica</u> 9.35°N 83.79°W
	epP	25 26.5	H = 11 12 39.4 h = 35 km MAG=5.0 D = 86.3° Az = 39.4° (USCGS); h = 31 km PV1:1.5s 15.0nm PV2:1.8s 25.0nm
9.	e(P)	15 24 36	PV:1.0s 13.0nm
9.	e(P)	15 35 49	PV:1.0s 13.0nm
9.	+iPKHKP	17 50 23	<u>Tonga Islands</u> 20.75°S 175.28°W H = 17 30 35.9 h = normal MAG=4.9 D = 149.7° Az = 351.3° (USCGS)
10.	e(P)	02 49 57.5	
10.	-ePKIKP	05 20 43	<u>Tonga Islands</u> 20.13°S 175.33°W
	-ePKHKP	20 48	H = 05 01 09.4 h = 96 km MAG=5.8
	i	20 52.5	D = 149.1° Az = 351.4° (USCGS);
	+ipPKP	21 16.5	h = ca. 100 km PV1:1.6s 79.0nm PV2:1.8s 705nm PV4:1.6s 147nm
10.	iPg	12 00 57.0	<u>Explosion/CSSR</u>
	iSn	01 16.0	D = 1.5° Yield: 21.9 t
	iSg	01 17.0	
	i	01 21.5	
10.	ePP	12 54(25)	<u>New Britain Region</u> 5.52°S 151.82°E
	ePS	13 04 20	H = 12 33 42.2 h = 40 km MAG=5.3 (USCGS)
	ePPS	05 45	D = 124.1°
	e(PKKS)	06.5	LmH:19s 1.9/ μm LmV:19s 3.3/ μm
	eSS	11.5	MLH=5.8 MLV=6.0
	LmH	50.2	
	LmV	50.2	
10.	eP	15 26 26	<u>Southern Greece</u> 36.20°N 22.25°E
	e	26 35	H = 15 22 34.8 h = 7 km MAG=4.7
	LmH	33.6	D = 16.4° Az = 335.3° (USCGS)
	LmV	33.6	LmH:11s 0.8/ μm LmV:12s 1.2/ μm MLH=4.3 MLV=4.4

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Day	Phase	h m s	Remarks
10.	e(P)	16 35 36	PV:1.6s 18.5nm
10.	+iP	22 13 29.0	<u>Tadzhik SSR</u> 38.40°N 69.59°E
	e	13 42.5	H = 22 05 35.0 h = 4 km MAG=5.5
	e	13 47.5	D = 42.1° Az = 306.3° (USCGS)
	ePP	15 11	PV:1.2s 50.0nm
	LmH	34.4	LmH:12s 0.7/ μm LmV:14s 0.85/ μm
	LmV	34.4	MPV=5.3 MLH=4.8 MLV=4.8
11.	eP	00 27 06.5	<u>Ionian Sea</u> 37.75°N 20.95°E
	e	27 12	H = 00 23 40.4 h = 43 km MAG=4.5
	i	27 56.5	D = 14.5° Az = 335.7° (USCGS)
	LmH	33.8	PV2:1.1s 20.0nm
	LmV	33.8	LmH:10s 0.65/ μm LmV:12s 0.5/ μm MLH=4.0 MLV=4.0
11.	eP	04 37 32	<u>Greece</u> 38.93°N 21.81°E
	e	37 38	H = 04 34 17.2 h = normal MAG=4.5
	e(SS)	39 36	D = 13.8° Az = 331.7° (USCGS)
	eLi(3.72)	41 10	PV2:1.4s 19.0nm
	eLg2(3.28)	42 04	LmH:11.5s 2.2/ μm LmV:12s 2.2/ μm
	LmH	42.2	MLH=4.5 MLV=4.6
	LmV	44.2	e 37 59 e 38 24
11.	+eIPKIKP	05 32 23.5	<u>Tonga Islands</u> 19.30°S 173.94°W
	+1PKHKP	32 27.5	H = 05 12 42.2 h = normal MAG=5.5
	ep(PKHKP)	32 35	D = 148.4° Az = 353.2° (USCGS); (h = 27 km)
	e	32 38	
	i	33 11	PV1:1.3s 65.0nm PV2:1.7s 172nm
	LmH	06 43.1	PV3:2.0s 185nm
	LmV	43.7	LmH:18s 1.4/ μm LmV:18s 1.4/ μm MLH=5.8 MLV=5.8
11.	eIP	10 57 47.5	<u>Fox Islands/Aleutian Is.</u> 52.76°N 169.74°W
			H = 10 45 59.6 h = 61 km MAG=5.3 (USCGS)
			D = 77.3°
			PV:1.6s 31.6nm
			MPV=5.2

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Day	Phase	h m s	Remarks
11.	ePKHKP	20 59 51	<u>Tonga Islands Region</u> 23.46° S 175.90° W
	e	59 59	H = 20 39 55.9 h = 32 km MAG=5.3 (USCGS)
	e	21 00 13	D = 152.2°
	LmH	22 16.5	PV:1.8s 37.5nm
	LmV	18.0	LmH:20s 0.5/ μ m LmV:18s 0.6/ μ m
			MLH=5.3 MLV=5.4
11.	ePKHKP	22 36 10	<u>Tonga Islands</u> 23.26° S 175.79° W
			H = 22 16 15.8 h = normal MAG=4.8 (USCGS)
			D = 152.0°
11.	ePKIKP	23 45 24	<u>Tonga Islands</u> 23.39° S 175.93° W
	ePKHKP	45 31.5	H = 23 25 37.9 h = 37 km MAG=5.3 (USCGS)
	ePKP2	45 42	D = 152.0°
	e(SKP)	49 05	LmH:19s 1.5/ μ m LmV:19s 2.2/ μ m
	eSKSP	59 24	MLH=5.8 MLV=6.0
	LmH	01 03.6	1 45 38.0 e 45 57 e 49 10
	LmV	03.6	
12.	ePKHKP	00 32 32.5	<u>Tonga Islands</u> 23.25° S 175.88° W
	e	32 39	H = 00 12 37.9 h = normal MAG=5.2 (USCGS)
	ePKP2	32 43.5	D = 152.0°
12.	1PKIKP	04 19 22	<u>South of Fiji Islands</u> 22.39° S 176.17° W
+1PKHKP		19 28.5	H = 03 59 50.1 h = 128 km MAG=5.4 (USCGS)
1PKP2		19 37.5	D = 151.0° h = 130 km
epPKIKP		19 57.5	PV1:1.0s 13.0nm PV2:1.7s 161nm
epPKHKP		20 03.5	PV5:1.7s 61.1nm
12.	ePKIKP	14 57 40	<u>Tonga Islands</u> 23.63° S 175.97° W
	ePKHKP	57 46	H = 14 37 56.0 h = 63 km MAG=5.0
	ePKP2	57 57	D = 152.4° Az = 349.5° (USCGS)
	e	58 05	
12.	eP	15 42 09.5	<u>North Atlantic Ocean</u> 53.70° N 35.14° W
	LmH	53	H = 15 36 16.5 h = normal MAG=4.7 (USCGS)
	LmV	53.3	D = 28.3°
			PV:2.4s 28.4nm
			LmH:14s 0.75/ μ m LmV:16s 1.0/ μ m
			MPV=4.6 MLH=4.4 MLV=4.6

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Day	Phase	h m s	Remarks
12.	eP	16 12 20	<u>North Atlantic Ocean</u> 53.6° N 35.4° W
	LmV	23.0	H = 16 06 27.3 h = normal MAG=4.6 (USCGS)
	LmH	23.2	D = 28.6°
			LmH:16.5s 1.0/ μ m LmV:18s 1.2/ μ m
			MLH=4.5 MLV=4.6
12.	-1P	19 34 15.0	<u>Near S. Coast of Honshu/Japan</u>
	i	37 32	33.97° N 137.18° E
			H = 19 22 24.2 h = 324 km MAG=4.9 (USCGS)
			D = 83.1°
			PV:1.2s 45.5nm
			MPV=5.2
12.	LmH	20 26	<u>South of Africa</u> 53.38° S 25.40° E
	LmV	26	H = 19 24 05.6 h = normal MAG=4.9 (USCGS)
			D = 104.3°
			LmV:20s 0.3/ μ m
			MLV=4.9
12.	-eP	20 28 50.5	<u>South of Alaska</u> 52.87° N 161.61° W
	-1P	28 51.5	H = 20 16 59.8 h = 31 km MAG=5.6 (USCGS)
	eipP	29 01	D = 77.0° h = 35 km
	eS	38 36	PV2:1.4s 133nm PV3:1.1s 112nm
	LmH	21(10)	MPV2=5.9
	LmV	(10)	1 28 55 e 1 29 06.5 e 29 10 e 29 19
13.	ePKP	02 43 43	<u>Loyalty Islands</u> 22.29° S 170.20° E
	e	43 49	H = 02 24 01.6 h = 11 km MAG=4.7
			D = 147.1° Az = 331.3° (USCGS)
13.	e(P)	07 04 03	
13.	1PKP	12 31 12.5	<u>Loyalty Islands</u> 21.82° S 170.57° E
			H = 12 11 31.2 h = normal MAG=4.7 (USCGS)
			D = 146.6°
13.	ePKP	20 13 35	<u>Loyalty Islands</u> 21.59° S 170.82° E
			H = 19 53 52.5 h = normal (USCGS)
			D = 146.5°

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Day	Phase	h m s	Remarks
14.	ePKP	05 10 46	<u>Loyalty Islands</u> 21.91° S 170.03° E
	e	10 55.5	H = 04 51 04.5 h = 18 km MAG=5.1
	e	11 03	D = 146.7° Az = 334.7° (USCGS)
14.	e	21 30 45	<u>Italy</u> 45.0° N 10.5° E
	e(Sn)	31 19	H = 21 28 32 (BCIS)
	e(Sg)	31 56	D = 5.7°
	e	32 06	
	e	32 17	
15.	-1P	02 24 57	<u>Northern India</u> 28.66° N 78.93° E
	+e	25 03.5	H = 02 15 33.8 h = 50 km MAG=5.8
	LmH	47	D = 54.3° Az = 313.7° (USCGS)
	LmV	52.2	PV1:1.4s 71.5nm PV2:1.4s 23.8nm LmV:14s 0.8/ μ m MPV=5.6 MLV=5.0
15.	eP	02 58 42	<u>Mindoro/Philippine Islands</u>
	e	59 05	13.29° N 121.31° E
	eSKS	03 09 18	H = 02 45 32.3 h = 14 km MAG=5.7
	eS	09 45	D = 91.9° Az = 323.1° (USCGS)
	e(PS)	10(50)	PV1:1.3s 23.3nm PV2:1.5s 37.5nm
	eSS	16(00)	LmH:14s 7.0/ μ m LmV:15s 6.9/ μ m
	LmH	40.7	MPV=5.3 MLH=6.3 MLV=6.3
	LmV	48.1	e 58 47
15.	e(P)	06 36 43	
15.	-eP	10 31 13.5	<u>Carlsberg Ridge</u> 3.82° N 64.00° E
	ePP	33 36	H = 10 20 42.2 h = 37 km MAG=5.6 (USCGS)
	eS	39 48	D = 64.5°
	e	39 56	PV:2.3s 130nm PPV:2.8s 129nm
	ePPS	40 11	PPH:5s 0.5/ μ m SH2:12s 11.5/ μ m
	eSS	44(00)	LmH:19s 1.2/ μ m LmV:18s 1.45/ μ m
	eLQ	47.0	MPV=5.5 MPPV=5.9 MPPH=6.5 MSH2=6.8
	LmV	11 02.3	MLH=5.0 MLV=5.2
	LmH	04.9	e 31 20.5 e 31 24.5 e 33 47

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Day	Phase	h m s	Remarks
15.	+1P	13 47 23.5	<u>Southern Alaska</u> 60.35° N 146.00° W
	ipP	47 28.5	H = 13 36 23.7 h = 9 km MAG=5.3 (USCGS)
	ePcP	47 48.5	D = 67.9° h = 19 km
	e	48 21.5	PV:1.0s 69.5nm pPV:1.3s 93.0nm
	ePP	49 52	SH:12s 0.5/ μ m
	eS	56 20	LmH:16s 0.6/ μ m LmV:16s 0.7/ μ m
	LmH	14 21.4	MPV=5.8 MSH=5.5 MLH=4.9 MLV=5.0
	LmV	21.5	*
15.	e(P)	19 48 20	
16.	+1P	02 24 10.0	<u>Hindukush</u> 36.42° N 70.90° E
	epP	24 51	H = 02 16 19.7 h = 199 km MAG=5.7
	esP	25 12	D = 44.0° Az = 308.1° (USCGS); h = 192 km
	eX	25 50	PV:1.8s 415nm PPV:1.8s 150nm
	+1PP	25 56.0	ScPV:1.8s 113nm
	ePa(8.1)	26 24	MPV=5.6 MPPV=5.4
	eScP	29 22	X is probably the PP-wave reflected at
	eS	30(25)	the base of the earth crust.
	ess	31(40)	
16.	eP	02 52 41	<u>Jan Mayen Island</u> 71.24° N 6.28° W
	ePP	53 07	H = 02 47 45.0 h = normal MAG=4.3
	ePPP	53 17	D = 22.2° Az = 148.9° (USCGS)
	e	53 37	PV:1.3s 20.9nm
	LmH	03 02.5	MPV=4.4
	LmV	03.8	
16.	eP	03 31 40	<u>Albania</u> 40.0° N 20.0° E
	e	31 42	H = 03 28 40 (BCIS)
	e	34 25	D = 12.2°
	eLg2(3.26)	35 38	PV:0.7s 21.8nm
	e	35 46	LmH:12.5s 1.0/ μ m
	LmH	37.1	MLH=4.0
	LmV	37.1	
16.	eP	03 56 30	<u>Albania</u> 40.27° N 19.89° E
	i	56 31.0	H = 03 53 42.9 h = normal MAG=4.9
	i	56 32.5	D = 11.9° Az = 333.6° (USCGS)
	eLg1(3.56)	59 54	PV2:0.9s 32.6nm PV3:0.8s 84.8nm

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Day	Phase	h m s	Remarks
cont.			
16.	eLg2(3.33)	04 00 20	LmH:10.5s 3.5/ μ m LmV:14s 4.5/ μ m
	eLg(3.20)	00 36	MLH=4.6 MLV=4.7
	LmH	02.2	ei 56 40.5 e 58 27 ei 59 06
	LmV	02.2	
16.	eP	14 34 22	<u>Kamchatka</u> 52.2°N 159.4°E
	e	34 37	H = 14 22 50 h = normal MAG=ca.5 (ANUSSR) D = 74.0°
16.	ePKP2	18 07 37	<u>Kermadec Islands</u> 27.74°S 178.19°W H = 17 47 41.9 h = 192 km MAG=4.9 (USCGS) D = 155.8°
16.	eP	18 14 47.5	<u>Southern Nevada</u> 37.40°N 114.19°W
	e	15 22	H = 18 02 36.1 h = normal MAG=6.1 (USCGS)
	e	16 14	D = 80.3°
	eS	24 55	PV:1.5s 50.0nm
	eScs	25 16	LmH:16s 3.9/ μ m LmV:16s 4.2/ μ m
	eLQ	36	MPV=5.4 MLH=5.9 MLV=5.9
	LmH	51.4	ei 15 13 e 18 18 ei 18 35
	LmV	51.4	
16.	ePKP	20 05 16	<u>Loyalty Islands</u> 21.40°S 171.35°E
	i	05 18.5	H = 19 45 38.7 h = 36 km MAG=5.3
	i	05 20	D = 146.8° Az = 336.3° (USCGS)
	i	05 27.0	LmH:22s 4.0/ μ m LmV:21s 3.7/ μ m
	eSS	27.6	MLH=6.2 MLV=6.1
	LmH	21 10.6	ei 05 30.2 i 05 38.0 e 06(16)
	LmV	10.6	
16.	eP	22 22 52	<u>Jan Mayen Island</u> 71.38°N 2.83°W H = 22 18 00.2 h = normal MAG=4.3 D = 21.8° Az = 154.7° (USCGS)
17.	ePKP	01 13 28	<u>Loyalty Islands</u> 21.51°S 171.23°E
	e	13 37.5	H = 00 53 43.2 h = 51 km MAG=4.7 D = 146.8° Az = 336.1° (USCGS)

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Day	Phase	h m s	Remarks
17.	1Pn	05 17 29.0	<u>Italy</u> 44.5°N 11.9°E
	ePg	18 00	H = 05 16 00 (BCIS)
	eSn	18 38	D = 6.2°
	eSg	19 23	ei 18 58 e 19 09
17.	eP	17 50 12	<u>Southeastern Kurile Islands</u>
	e	50 24	48.7°N 155.2°E
	LmH	18 28	H = 17 38 27 h = normal MAG=4½
	LmV	28	D = 76.2° (ANUSSR) PV:1.2s 18.2nm MPV=5.1
17.	eP	21 10 25	<u>Near Islands/Aleutian Is.</u> 52.29°N 174.90°E
	epP	10 37	H = 20 58 35.9 h = 32 km MAG=5.6 (USCGS)
	eS	20 08	D = 76.7° h = 45 km
	ePS	20 46	LmH:20s 0.9/ μ m LmV:22s 0.85/ μ m
	ePPS	21 08	MLH=5.1 MLV=5.1
	eSS	25.2	
	LmH	42.4	
	LmV	42.4	
17.	eP	23 20 14.5	<u>Southern Nevada</u> 37.34°N 114.09°W
	e	20 34	H = 23 07 58.9 h = normal MAG=5.2
	e	20 49	D = 80.2° Az = 31.6° (USCGS)
	e	20 54	LmV:14s 0.4/ μ m
	e	21 30	MLV=4.9
	LmH	58	
	LmV	58	
17.	LmH	23 32	LmV:15s 0.3/ μ m
	LmV	32	
18.	-eP	00 18 08	<u>Southern Sumatra</u> 1.65°S 100.60°E
	e	18 24	H = 00 05 04.9 h = 19 km MAG=5.3
			D = 90.6° Az = 320.5° (USCGS)
			PV:1.6s 26.3nm
			MPV=5.2
18.	-eP	06 49 57	<u>Rat Islands/Aleutian Is.</u> 51.50°N 177.77°E
	e	50 23	H = 06 38 03.5 h = 44 km MAG=5.3 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
18.	LmH	07 30	D = 77.3°
	LmV	32	PV:1.3s 27.9nm MPV=5.2
18.	eP1 +IP2 ipP eIPP ipPP eS esS ePPS eSS LmH LmV	10 45 55 45 56.2 46 13.2 49 20 49 36.5 56 19 56 56 57 47 11 02 25 22.4 22.4	<u>Guatemala</u> 14.55°N 91.65°W H = 10 33 16.5 h = 76 km MAG=5.9 D = 87.1° Az = 38.4° (USCGS); h = 78 km PV2:1.3s 107nm PV:10s 1.6/um pPV:1.4s 76.2nm SH:16s 1.1/um LmH:20s 4.2/um LmV:21s 6.7/um MPV2=5.7 MPV=6.2 MSH=5.9 MLH=5.9 MLV=6.0 <u>e</u> 46 30 e 59 05
18.	eP -i e ePP eSKS eS ePS	14 48 02.5 48 04.0 48 07 52 25 58 36 59 52 15 01 40	<u>Molucca Sea</u> 0.17°S 125.14°E H = 14 33 59.8 h = 56 km MAG=6.3 D = 104.9° Az = 322.8° (USCGS) PV2:1.5s 75.0nm PV3:1.3s 32.6nm PPV:1.9s 73.4nm MPPV=6.0 e 52 33 e 52 40 e 52 50 Multiple P and PP-phases.
18.	+eP +ePP e e e	14 51 57 56 19 56 26 56 34 56 44	<u>Molucca Sea</u> 0.06°S 125.15°E H = 14 37 52.6 h = normal MAG=6.3 D = 104.8° Az = 322.9° (USCGS) PV:1.6s 73.6nm PPV:2.0s 70.4nm MPPV=5.9 Multiple PP-phases.
18.	ePKP	15 21 59	<u>Loyalty Islands</u> 21.7°S 169.8°E H = 15 02 17.1 h = 20 km MAG=5.2 (USCGS) D = 146.4° PV2:1.1s 13.6nm PV3:1.1s 15.5nm

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Day	Phase	h m s	Remarks
18.	eP e	22 13 03 13 36	<u>Dodecanese Islands</u> 36.22°N 26.38°E H = 22 09 00.2 h = 122 km MAG=4.3 D = 17.9° Az = 328.2° (USCGS) PV:1.3s 16.6nm
19.	eP e e LmH LmV	03 21 05 21 10 22 17 56 56.6	<u>Gulf of Alaska</u> 59.53°N 144.64°W H = 03 10 04.2 h = normal MAG=4.6 D = 68.5° Az = 16.0° (USCGS) PV:1.3s 23.3nm LmV:16s 0.35/um MPV=5.2 MLV=4.7
19.	IP	04 00 46.0	<u>Eastern Kazakh SSR</u> 50.43°N 77.87°E H = 03 53 01.0 h = 0 km MAG=4.8 D = 40.8° Az = 296.9° (USCGS) Probably underground explosion.
19.	IPg ISn I e(Sg)	04 08 10 08 43.0 09 10.0 09 18	<u>Italy</u> 45.6°N 11.4°E H = 04 06 32 (BCIS) D = 5.1° e 09 13 e 09 24
19.	e e(Sg)	04 40 30 43 03	Probably Yugoslavia (after Vienna) e 42 52 e 43 18
19.	eP e e LmV LmH	11 35(57) 35 03 35 23 12 13.5 14.2	<u>Fox Islands/Aleutian Is.</u> 53.65°N 167.62°W H = 11 23 13.5 h = 54 km MAG=5.1 D = 76.1° Az = 0.5° (USCGS) LmV:19s 0.4/um LmH:20s 0.5/um MLV=4.8 MLH=4.8
19.	LmH LmV	11 41 41	<u>Southern Nevada</u> 37.36°N 114.13°W H = 10 51 38.5 h = 11 km MAG=4.5 (USCGS) D = 80.1° LmV:16s 0.3/um MLV=4.8

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Day	Phase	h m s	Remarks
19.	LmV	12 07.5	<u>Southern Nevada</u> 37.35°N 114.17°W H = $11 17 47.7$ h = normal MAG=4.4 (USCGS) D = 80.1° LmV:20s $0.37/\mu\text{m}$ MLV=4.8
19.	+1P1 -1P2 1 ePP2 e1S2 1S3 LmH LmV	12 27 22.5 27 29.0 27 47 28 04 31 40 31 53 39.0 39.2	<u>Turkey</u> 39.20°N 41.65°E H = $12 22 09.6$ h = 26 km MAG=6.1 D = 24.0° Az = 308.4° (USCGS) PV1:1.3s 205nm PV2:8.5s 27.5/ μm PH2:9.5s 19.2/ μm SH2:14s 30.5/ μm SH3:14.5s 172/ μm LmH:17s 315/ μm LmV:18s 234/ μm MPV1=5.5 MPV2=6.8 MPH2=6.8 MSH2=6.5 MSH3=7.3 MLH=6.9 MLV=6.8 Possibly a double shock. The second P-onset is much greater than the first one.
19.	eP	12 58 46	<u>E. Coast of Honshu/Japan</u> 36.45°N 141.73°E H = $12 46 23.7$ h = 28 km MAG=5.5 D = 82.8° Az = 330.6° (USCGS) PV:1.8s 46.8nm MPV=5.3
19.	eP	13 13 50	<u>Turkey</u> H = $13 08 37$ (UPP)
19.	eP	13 20 20	<u>Turkey</u> 39.22°N 41.14°E H = $13 15 10.1$ h = normal MAG=5.1 D = 23.7° Az = 308.6° (USCGS)
19.	e(P) 1	13 20 51 20 57.0	
19.	e(P)	13 21 47	
19.	eP	13 33 23	<u>Turkey</u> H = $13 28 12$ (UPP)

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Day	Phase	h m s	Remarks
19.	eP	13 38 06	<u>Turkey</u> H = $13 32 53$ (UPP)
19.	eP	13 45 18.5	<u>Turkey</u> H = $13 40 07$ (UPP)
19.	eP1 1P2 1 e	13 59 38.5 59 42.5 59 48 14 02 20	<u>Turkey</u> 38.86°N 41.71°E H = $13 54 24.9$ h = 33 km MAG=5.3 (USCGS) D = 24.8° PV1:1.3s 18.6nm PV2:1.9s 227nm MPV1=4.5 MPV2=5.4 Possibly a double earthquake. The second event is greater than the first one.
19.	eP e	14 09(09) 09 28	<u>Turkey</u> 39.20°N 41.31°E H = $14 03 57.8$ h = normal MAG=4.6 D = 23.8° Az = 308.5° (USCGS)
19.	ePKP	14 16 02	<u>Fiji Islands</u> 18.98°S 177.37°W H = $13 57 22.9$ h = 566 km D = 147.6° Az = 349.3° (USCGS)
19.	eP e e e	14 23 06 23 11 23 23 24 15	<u>Turkey</u> 39.23°N 41.13°E H = $14 17 57.5$ h = 47 km MAG=5.1 D = 23.6° Az = 308.6° (USCGS) PV1:1.8s 56.2nm PV2:2.1s 66.6nm
19.	eP	18 46 27	<u>Turkey</u> 39.10°N 41.38°E H = $18 41 16.0$ h = normal MAG=4.9 D = 23.9° Az = 308.7° (USCGS) LmH LmV
20.	eP	02 49 04	<u>Turkey</u> H = $02 43 52$ (UPP)
20.	eP	04 50 37	<u>Turkey</u> 38.6°N 41.4°E H = $04 45 22$ h = normal D = 24.2° (ANUSSR)

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Day	Phase	h m s	Remarks
20.	-eP	07 56 23.5	<u>Peru-Ecuador Border Region</u> 3.16° S 77.22° W
	eI	56 31	H = 07 43 27.6 h = 116 km MAG=5.6
	ePp	56 52	D = 91.7° Az = 39.6° (USCGS); h = 112 km
			PV:1.5s 30.0nm
			MPV=5.3
20.	-iP	09 44 06.0	<u>Hokkaido/Japan</u> 43.11° N 140.55° E
	+i	44 09.5	H = 09 32 31.7 h = 161 km MAG=5.8
	iPp	44 48.0	D = 76.6° Az = 329.4° (USCGS); h = 174 km
	eI(Pp)	46 52	PV1:1.2s 100nm PV2:1.5s 140nm
	ePP	47 04	pPV:1.3s 44.2nm SH:10s 1.3/ μ m
	eIS	53 38	MPV=5.4 MSH=5.9
	LmH	10(18)	e 44 42 e 44 56 are registered only in our longperiod broadband records. Interpreting this phases as pP respectively sP we get a focus depth of h = 145 km.
	LmV	24	
20.	-eP	12 04 19	<u>Turkey</u> 39.31° N 40.92° E
	i	04 25.5	H = 11 59 12.1 h = 37 km MAG=5.4
	1S	08 27	D = 23.5° Az = 308.5° (USCGS)
	i	08 46	PV:2.3s 120nm SH2:15s 17.7/ μ m
	LmH	14.8	LmH:16.5s 57.8/ μ m LmV:14s 40.5/ μ m
	LmV	17.8	MPV=5.3 MSH2=6.2 MLH=6.1 MLV=6.2
20.	eIP	12 06 50	<u>Turkey</u> 39.0° N 40.9° E
	i	07 00	H = 12 01 43.4 h = normal MAG=5.4 (USCGS)
			D = 23.6°
20.	ePn	13 10(36)	<u>Yugoslavia</u> 42.2° N 18.3° E
	e(Pg)	11 38	H = 13 08 13.1 h = normal MAG=4.4 (USCGS)
	eSn	12 19	D = 9.6°
	e(Sb)	12 51	e 13 23 e 13 42
	e(Sg)	13 32	
20.	e(P)	17 59 12	<u>Turkey</u> 39.26° N 41.16° E
	e	59 19	H = 17 54 03.3 h = normal MAG=4.4
	e	59 24	D = 23.6° Az = 308.5° (USCGS)
	LmH	18 11	

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Day	Phase	h m s	Remarks
20.	ePn	19 10 40	<u>Yugoslavia</u> 42.28° N 18.87° E
	eSn	12 33	H = 19 08 21.4 h = 20 km MAG=4.9
	eLg1(3.54)	13 25	D = 9.7° Az = 331.6° (USCGS)
	eLg2(3.32)	13 44	LmH:11.5s 1.7/ μ m LmV:8s 0.9/ μ m
	LmH	13.9	MLH=4.1
	LmV	14.7	
20.	ePKIKP	23 14 47.5	<u>South of Fiji Islands</u> 23.44° S 176.03° W
	ePKHKP	14 55	H = 22 55 03.0 h = 57 km MAG=5.6 (USCGS)
	e(PP)	18 32	D = 152.2°
	e	18 38	PV2:1.3s 53.5nm
	LmH	00 33.3	LmH:17s 2.5/ μ m LmV:18s 2.9/ μ m
	LmV	33.6	MLH=6.1 MLV=6.1
20.	e(P)	23 28 18	
	e	28 21	
20.	e(PKP)	23 33 13	
	e	33 20	
	i	33 37	
21.	eP	00 20 16.5	<u>Turkey</u> 39.19° N 41.75° E
			H = 00 15 04.1 h = normal MAG=4.8
			D = 24.0° Az = 308.3° (USCGS)
21.	i(P)	00 58 19.5	PV:0.6s 21.7nm
21.	eP	01 34 16.5	<u>Turkey</u> 40.33° N 27.45° E
	e	34 19	H = 01 30 45.2 h = normal MAG=4.9
	e	34 24	D = 15.1° Az = 318.5° (USCGS)
	e	34 29	PV3:1.8s 81.2nm PV4:1.8s 128nm
	e(S)	37 00	LmH:15s 10.4/ μ m LmV:12s 8.5/ μ m
	eLi(3.71)	38 20	MLH=5.1 MLV=5.2
	eLg1(3.47)	38 48	e 34 34.5 e 37 19 e 37 24
	eLg2(3.33)	39 07	Successive P-onsets with increasing amplitude.
	LmH	39.5	
	LmV	42.9	

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Day	Phase	h m s	Remarks
21.	eP	02 30 19	<u>Turkey</u> 39.3°N 41.9°E H = 02 25 08.5 h = normal MAG=4.7 (USCGS) D = 24.0°
21.	ePKHKP ePKP2	02 33 56 34 07	<u>Tonga Islands</u> 23.57°S 175.92°W H = 02 14 01.3 h = normal MAG=4.7 D = 152.3° Az = 349.6° (USCGS) PV2:1.5s 25.0nm
21.	+eIP i(pP) ePP eSKS eS ePPS LmH LmV	05 14 00.5 14 12.0 18 00 24 35 25 24 28(40) 06 03.0 06.1	<u>Mindanao/Philippine Is.</u> 8.55°N 126.69°E H = 05 00 26.8 h = 67 km MAG=6.0 D = 98.8° Az = 324.3° (USCGS); (h = 42 km) PV:1.6s 89.5nm LmH:22s 2.0/um LmV:19s 1.6/um MPV=6.1 MLH=5.6 MLV=5.6 e 14 14.5 e 14 21.5 e 14 37 e 18 26
21.	e(P)	10 14 15	
21.	ePn eSn eSb eSg LmH LmV	11 53 02 54 50 55 39 56 01 56.2 56.8	<u>Yugoslavia</u> 42.09°N 18.59°E H = 11 50 40.4 h = normal D = 9.8° Az = 333.1° (USCGS) LmH:8s 0.25/um MLH=3.4 e 54 40 e 56 09
21.	eP	15 23 05	<u>Turkey</u> 39.2°N 41.7°E H = 15 17 51 h = normal (ANUSSR) D = 23.9°
21.	eP e e LmH LmV	20 38 09 38 14 38 52 21 21.9 23.4	<u>East of Ryukyu Islands</u> 28.86°N 132.00°E H = 20 25 36.2 h = 34 km MAG=5.4 D = 85.0° Az = 326.5° (USCGS) PV:1.7s 33.3nm LmH:14s 0.6/um LmV:13s 0.65/um MPV=5.2 MLH=5.1 MLV=5.2

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Day	Phase	h m s	Remarks
21.	eP	22 41 47	<u>Turkey</u> 39.4°N 41.5°E H = 22 36 37 h = normal (ANUSSR) D = 23.7°
22.	-eP +ipP eS	14 31 40 33 51.0 40 12	<u>Sea of Okhotsk</u> 50.31°N 147.60°E H = 14 21 13.7 h = 628 km MAG=5.2 (USCGS) D = 72.7° h = 673 km PV:1.4s 52.5nm pPV:1.8s 87.5nm MPV=4.9
22.	ePKIKP ePP eSKS eSP eSS	17 20 39 21 24 27.3 30 40 32.0	<u>West New Guinea Region</u> 1.84°S 134.22°E H = 17 02 03.5 h = 13 km MAG=5.9 (USCGS) D = 111.6° e 21 40 ePPS 31.9
22.	ePKIKP iPKHKP ePP ePSKS eSS LmH LmV	18 01 48.5 01 51.2 05 20 15 32 24 26 19 08.1 08.5	<u>Loyalty Islands</u> 22.43°S 170.57°E H = 17 42 10.6 h = 39 km MAG=5.5 (USCGS) D = 147.4° LmH:21s 6.6/um LmV:21s 8.6/um MLH=6.4 MLV=6.5 1 01 54.2 1 01 57.0 e 20 30
22.	ePKIKP iPKHKP e(pPKP) e e	20 51(38) 51 40 51 51.5 52 25 52 36	<u>Loyalty Islands Region</u> 22.5°S 170.5°E H = 20 31 58.2 h = normal MAG=5.2 (USCGS) D = 147.5° (h = ca. 40 km) PV2:1.0s 21.8nm PV3:1.2s 22.8nm
22.	eP e e eS e LmH LmV	21 54 26 54 32 54 40 58(40) 59(12) 22 04.3 04.5	<u>Jan Mayen Island</u> 71.86°N 11.43°W H = 21 49 17.4 h = normal MAG=4.3 D = 23.7° Az = 141.6° (USCGS) SH:10s 0.8/um LmH:16s 1.2/um LmV:16s 0.8/um MSH=5.1 MLH=4.5 MLV=4.4

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Day	Phase	h m s	Remarks
23.	ePKHP	00 13 16.5	<u>Loyalty Islands Region</u> 22.34°S 170.53°E
	e(pPKP)	13 34	H = 23 53 36.4 h = 45 km MAG=4.5 (USCGS) D = 147.3° (h = ca. 60 km)
23.	e	01 41 02	
	e	41 42	
23.	e(P)	02 44 18	
	e	44 25	
23.	+iP	18 34 47.0	<u>Southwestern Ryukyu Islands</u>
	e	35 03	23.81°N 123.24°E
	eS	45 12	H = 18 22 16.7 h = 37 km MAG=5.6 (USCGS)
	LmV	17.5	D = 84.6°
	LmH	17.8	PV:1.5s 55.0nm LmH:17s 0.85/μm LmV:18s 1.3/μm MPV=5.5 MLH=5.2 MLV=5.4
23.	iPKP	22 18 40.0	<u>Loyalty Islands Region</u> 22.15°S 169.55°E
	e	18 43.5	H = 21 59 04.2 h = normal MAG=4.5 (USCGS)
	i	18 46.5	D = 146.7°
23.	ePKP	22 54 38	<u>Tonga Islands</u> 16.31°S 173.24°W
	ipPKP	54 52	H = 22 35 02.0 h = normal MAG=5.0 D = 145.5° Az = 354.5° (USCGS); h = 50 km PV1:1.5s 42.5nm PV2:1.5s 30.0nm
24.	ePKP2	02 11 36	<u>Kermadec Islands Region</u> 30.08°S 177.49°W H = 01 51 07.3 h = 21 km MAG=4.6 (USCGS) D = 158.4°
24.	eP	06 59 43	<u>West Pakistan</u> 30.0°N 68.7°E H = 06 51 15 h = normal MAG=4.4-5 D = 46.9° (ANUSSR)
24.	epP	07 31 17	<u>Northern Chile</u> 19.87°S 69.17°W
	ePP	34 50	H = 07 17 17.8 h = 100 km MAG=5.5
	e	35 24	D = 99.5° Az = 39.6° (USCGS)
	eSKS	41 24	P must be 26 s earlier than pP.

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Day	Phase	h m s	Remarks
cont.			
24.	eS	07 42 12	
	e	44 25	
24.	e(P)	16 14 16	
24.	e(P)	16 59 23	
24.	ePg	20 49 19	<u>France</u> 44.95°N 5.70°E
	eSg	50(55)	H = 20 47 04 (BCIS)
	e	51 05	D = 7.0°
25.	LmH	01 25.1	<u>Shikoku/Japan</u> 32.14°N 132.33°E H = 00 32 49.5 h = 34 km MAG=4.4 (USCGS) D = 82.3° LmH:14s 0.7/μm MLH=5.2
25.	e(P)	07 42 29	
25.	ePKP	12 05 32	<u>Tonga Islands</u> 18.69°S 173.88°W H = 11 45 46.0 h = normal MAG=4.7 (USCGS) D = 147.6°
25.	eSKS	23 43 03	<u>Northern Chile</u> 22.43°S 68.59°W
	eS	43(58)	H = 23 18 50.8 h = 112 km MAG=5.3 (USCGS) D = 101.0°
26.	LmH	00 23.5	<u>Northeastern China</u> 37.57°N 115.06°E
	LmV	27.5	H = 23 42 54.8 h = normal MAG=4.9 (USCGS) D = 69.3° LmH:15s 0.5/μm LmV:16s 0.45/μm MLH=4.9 MLV=4.8
26.	ePKIKP	01 11 38	<u>Kermadec Islands</u> 27.53°S 177.26°W
	ePKP2	12 06	H = 00 51 51.3 h = 59 km MAG=5.7
	e	12 23	D = 155.9° Az = 346.1° (USCGS); h = 67 km
	epPKP2	12 25	PV1:1.8s 40.6nm PV2:1.5s 50.0nm

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Day	Phase	h m s	Remarks
cont.			
26.	e	01 12 52	PV3:1.1s 26.7nm PV4:1.4s 52.4nm
	LmV	02(22)	
26.	e(P)	03 27 21	PV:1.2s 18.3nm
26.	eP	06 00 46.5	<u>Portugal</u> 38.06°N 8.40°W
	e(S)	04 10	H = 05 56 24.3 h = normal MAG=4.7
	e	06 10	D = 19.0° Az = 42.1° (USCGS)
	LmH	07.4	LmH:13s 1.1/ μ m MLH=4.4
26.	ePKP	09 26 29	<u>Loyalty Islands Region</u> 22.11°S 170.02°E
	e	26 31	H = 09 06 50.4 h = 33 km MAG=5.6 (USCGS)
	e	26 33	D = 146.9°
	e	26 39	PV2:1.2s 22.8nm PV3:1.4s 33.3nm
	LmH	10 34.6	PV4:1.5s 85.0nm
	LmV	35.1	LmH:20s 1.0/ μ m LmV:19s 1.4/ μ m MLH=5.6 MLV=5.7
26.	e	09 32 20	
	e	32 24	
26.	eP	10 30(00)	<u>Alaska</u> 67.11°N 161.86°W
	e	30 05	H = 10 19 34.8 h = 14 km MAG=5.2 D = 62.5° Az = 4.7° (USCGS)
26.	e(P)	13 47 53	
26.	ePKP	13 52 03	<u>Loyalty Islands Region</u> 22.25°S 169.81°E
	i	52 05.7	H = 13 32 26.6 h = 69 km MAG=4.1 D = 146.9° Az = 334.3° (USCGS)
	ei	52 11	
	e	52 29	
	LmH	15 01	
	LmV	01	
26.	e(PKHKP)	22 44 39	<u>Tonga Islands Region</u> 23.56°S 175.81°W
	e(PKP2)	44 49	H = 22 24 45.3 h = normal MAG=4.9 D = 152.4° Az = 349.8° (USCGS)

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Day	Phase	h m s	Remarks
26.	e	23 30 28	
27.	i	02 54 42	
27.	ePKHKP	03 22 24	<u>Tonga Islands Region</u> 23.65°S 175.75°W
	ePKP2	22 36.5	H = 03 02 32.9 h = 63 km MAG=4.9 (USCGS)
	e	22 50	D = 152.3°
27.	ePKP	10 46 29	<u>Fiji Islands</u> 17.85°S 178.40°W
			H = 10 27 50.0 h = 550 km MAG=4.6
			D = 146.3° Az = 348.5° (USCGS)
27.	iP	13 10 57.0	<u>Honshu/Japan</u> 39.46°N 141.08°E
			H = 12 58 56.3 h = 95 km (USCGS)
			D = 80.0°
27.	LmH	18 08.8	<u>Luzon/Philippine Is.</u> 13.95°N 123.57°E
	LmV	09.5	H = 17 10 44.2 h = 13 km MAG=4.9 (USCGS)
			D = 92.7°
			LmH:19s 0.65/ μ m LmV:23s 0.95/ μ m MLH=5.1 MLV=5.2
28.	ePn	04 20 32	<u>Yugoslavia</u> 42.22°N 18.70°E
	ePg	21 24	H = 04 18 13.3 h = 39 km MAG=4.6
	i	22 26.0	D = 9.7° Az = 332.4° (USCGS)
	eISg	23 29	LmH:12s 1.9/ μ m
	eLg2(3.31)	23 38	MLH=4.1
	LmH	23.7	
28.	LmH	04 58.6	<u>Honshu/Japan</u> 36.61°N 138.08°E
	LmV	59.7	H = 04 09 24.3 h = 24 km MAG=4.5 (USCGS)
			D = 81.1°
			LmH:12s 1.85/ μ m LmV:14s 1.0/ μ m MLH=5.7 MLV=5.3
28.	-1PKIKP	07 49 22.5	<u>Off E. Coast of N.-New Zealand</u>
	-1PKP2	50 11.5	35.80°S 178.54°E
	1(pPKIKP)	50 24.5	H = 07 29 34.7 h = 94 km MAG=5.8
	e(pPKP2)	51 12.5	D = 162.4° Az = 331.5° (USCGS);

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Day	Phase	h m s	Remarks
cont.			
28.	ePP	07 53 55	(h = 237 km) PV1:(2.2s 59nm) PV2:1.4s 119nm PV3:1.5s 25nm PV4:1.6s 43.7nm ANUSSR gives: h = 109 km
28.	-ePKIKP epPKIKP	10 21 06 23 09	<u>Solomon Islands</u> 4.62°S 155.18°E H = 10 03 03.0 h = 509 km MAG=5.6 (USCGS) D = 125.3° h = 548 km PV1:1.6s 57.8nm PV2:1.5s 37.5nm
28.	e(P)	10 30 49	
28.	LmH LmV	10 33.8 33.8	
28.	eP eipp e e eS eScs	10 50 53 51 33 52 39 53 11 57(10) 11 00 45	<u>Hindukush</u> 36.35°N 70.92°E H = 10 43 01.0 h = 173 km MAG=4.9 (USCGS) D = 44.0° h = 188 km PV:1.8s 25.0nm pPV:1.6s 84.1nm MPV=4.4
28.	eP i e(Sg) e	12 43(30) 45 49.5 46 30 46 36	<u>Adria</u> 41.30°N 18.67°E H = 12 41 01.7 h = normal D = 10.1° Az = 333.5° (USCGS) PV:1.2s 27.4nm
28.	ePKP	13 40 37	<u>Tonga Islands</u> 18.65°S 175.60°W H = 13 21 13.5 h = 179 km MAG=4.7 D = 147.6° Az = 351.4° (USCGS) PV:1.2s 27.4nm
28.	eP LmH LmV	15 48 34 16 25.7 26.5	<u>Honshu/Japan</u> 36.65°N 138.16°E H = 15 36 18.5 h = 17 km MAG=5.0 (USCGS) D = 81.1° LmH:14s 1.2/um LmV:15s 0.5/um MLH=5.4 MLV=5.0

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Day	Phase	h m s	Remarks
28.	eP	19 09 13	<u>Mindoro/Philippine Is.</u> 13.73°N 120.71°E H = 18 56 19.1 h = 110 km MAG=5.1 (USCGS) D = 91.5°
28.	LmV	23 35.7	<u>Halmahera</u> 2.32°N 128.41°E H = 22 30 55.1 h = 75 km (USCGS) D = 104.8° LmV:20s 0.5/um MLV=5.1
29.	eP e	13 40 10.5 40 26.5	<u>Kurile Islands</u> 46.45°N 152.62°E H = 13 28 18.3 h = 53 km MAG=4.7 (USCGS) D = 77.6° Az = 335.8°
29.	LmH LmV	14 53.2 53.5	<u>Balleny Islands Region</u> 65.18°S 176.94°E H = 13 10 27.0 h = normal MAG=5.5 (USCGS) D = 163.6° LmH:19s 0.7/um LmV:19s 0.7/um MLH=5.6 MLV=5.5
29.	LmH LmV	20 23 23	<u>South of Panama</u> 6.80°N 82.61°W H = 19 31 23.7 h = 28 km MAG=5.1 (USCGS) D = 87.2° LmV:18s 0.3/um MLV=4.8
29.	eP e	22 41 49 41 55.5	<u>Kodiak Island</u> 56.35°N 153.11°W H = 22 30 22.8 h = normal MAG=4.7 D = 72.6° Az = 10.1° (USCGS)
30.	iP i eS	06 19 58.5 20 07.0 27 36	<u>Lake Baikal</u> 51.65°N 104.37°E H = 06 10 33.4 h = normal MAG=5.0 D = 54.3° Az = 308.4° (USCGS)
30.	LmH LmV	45.8 45.8	LmH:14s 4.0/um LmV:13.5s 5.9/um MLH=5.6 MLV=5.9
30.	ePKP2 e	08 56(49) 56 56	<u>South of Kermadec Islands</u> 33.10°S 179.24°W H = 08 36 04.5 h = 43 km MAG=4.5 (USCGS) D = 160.8°

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Day	Phase	h m s	Remarks
30.	eP	12 53 26.5	<u>Mindoro/Philippine Is.</u> 13.39°N 120.70°E
	e	53 44.5	H = 12 40 27.5 h = 81 km MAG=5.5
	epP	53 49	D = 91.4° Az = 323.0° (USCGS); h = 84 km
	ePP	57 06	LmH:20s 0.4/ μm LmV:19s 0.6/ μm
	eS	13 04(20)	MLH=4.9 MLV=5.1
	LmH	39.5	
	LmV	40.5	
30.	ePKP	13 57 20	<u>Tonga Islands</u> 17.72°S 173.31°W
	e	57 26	H = 13 37 38.7 h = normal MAG=4.8
	e	57 44	D = 146.9° Az = 354.3° (USCGS)
30.	LmH	14(10)	
	LmV	(10)	
30.	-iP	20 31 45.5	<u>Southern Alaska</u> 61.31°N 147.48°W
	+ipP	31 54.6	H = 20 20 54.0 h = 36 km MAG=5.9
	isP	31 58.5	D = 67.1° Az = 14.3° (USCGS); h = 35 km
	ePP	34(16)	PV:1.2s 95.5nm pPV:1.6s 124nm
	eS	40 38	LmH:19s 1.2/ μm LmV:17s 1.0/ μm
	iS	40 41	MPV=5.9 MLH=5.1 MLV=5.1
	eSS	44(55)	1 32 04.3 1 32 09.2 1 34 19.5
	eLQ	48.4	
	LmH	21 06.0	
	LmV	06.0	
30.	eP	20 34 10	<u>Southern Alaska</u> 61.47°N 147.50°W
			H = 20 23 18.2 h = normal MAG=5.4 (USCGS)
			D = 67.0°
			PV:1.4s 26.2nm
			MPV=5.2
31.	eS	00 01.5	<u>Off E. Coast of Jalisco/Mexico</u>
	eSS	07 40	18.73°N 107.01°W
	eLQ	14.7	H = 23 37 19.4 h = 54 km MAG=5.3 (USCGS)
	LmH	29.3	D = 92.5°
	LmV	29.3	LmH:19s 0.7/ μm LmV:19s 0.8/ μm
			MLH=5.2 MLV=5.2

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Day	Phase	h m s	Remarks
31.	e(P)	01 27 11	<u>Afghanistan-USSR Border Region</u>
	e	27 39	36.50°N 71.42°E
			H = 01 19 00.5 h = 80 km MAG=5.0 (USCGS)
			D = 44.4°
			P must be 5 s earlier than e(P).
31.	e(P)	09 11 15	
31.	+1P	18 20 32.2	<u>Jan Mayen Island</u> 71.59°N 2.67°W
	ei	20 37.5	H = 18 15 39.5 h = normal MAG=5.1
	eS	24(36)	D = 22.0° Az = 155.2° (USCGS)
	LmV	30.9	PV1:1.8s 206nm PV2:2.1s 275nm
	LmH	31.7	SH:12s 1.1/ μm
			LmH:13s 1.3/ μm LmV:14s 1.2/ μm
			MPV=5.3 MSH=5.0 MLH=4.5 MLV=4.5
31.	ePKP	23 55 47	<u>Easter Island Cordillera</u> 49.53°S 116.47°W
			H = 23 36 07.7 h = normal MAG=5.1
			D = 147.2° Az = 67.8° (USCGS)

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Day	Phase	h m s	Remarks
1.	+IP	01 43 26	<u>Jan Mayen Islands Region</u> 71.77°N 2.75°W
	i	43 29.0	H = 01 38 29.9 h = 17 km MAG=4.9
	e(sP)	43 32	D = 22.2° Az = 155.2° (USCGS);
	ePP	43 54	(h = 19 km)
	eS	47 32	PV1:1.5s 75.0nm PV2:1.4s 50.0nm
	eLQ	48.0	PV3:1.9s 187nm SH:9.5s 0.5/ μm
	eLR	49.0	LmH:13s 0.7/ μm LmV:13s 0.8/ μm
	LmV	53.8	MPV=4.9 MSH=4.8 MLH=4.3 MLV=4.5
	LmH	54.7	e 43 36.5 e 43 42 e 43 46.5
1.	eP	03 05 15	<u>Jan Mayen Islands Region</u> 71.81°N 2.56°W
	e	05 21	H = 03 00 20.7 h = normal MAG=4.0
			D = 22.2° Az = 155.6° (USCGS)
1.	eP	14 26 33	<u>Southern Greece</u> 37.50°N 22.13°E
	i	26 34.2	H = 14 22 57.0 h = 17 km MAG=5.3
	e1	26 37.5	D = 15.1° Az = 333.6° (USCGS)
	e1	26 45	PV2:1.0s 54.3nm PV3:1.2s 159nm
	e	27 30	PV4:1.7s 471nm SH2:9.5s 2.8/ μm
	eS	29 26	LmH:13s 14.3/ μm LmV:13s 16.6/ μm
	IS	29 34	MLH=5.3 MLV=5.5
	e	30 00	Successive P-onsets with increasing amplitude in the shortperiod records.
	eLi(3.71)	30 30	In the longperiod broadband registrations we find a clear superposition of longperiod PL-waves (T ca. 18 s) and shortperiode P-waves. e 27 30 is a very clear onset in all seismographs and with very long period (T = 36 s) in the SSJ-1/L components. Well developed higher modes of surface waves.
	eLg1(3.58)	30(46)	
	iLg2(3.31)	31 16	
	LmH	33.2	
	LmV	33.2	
1.	e(PKHP)	15 44 51	<u>Tonga Islands</u> 20.59°S 175.40°W
	e(PKP2)	44 58.5	H = 15 24 59.2 h = normal MAG=5.2
		D = 149.5° Az = 351.2° (USCGS)	
1.	+IP	19 22 55	<u>Jan Mayen Islands</u> 71.59°N 2.91°W
	i	22 58.5	H = 19 18 00.6 h = normal MAG=5.2
	eS	27 00	D = 22.0° Az = 154.8° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
1.	LmV	19 33.4	PV:1.4s 234nm SH:10s 0.6/ μm
	LmH	34.2	LmH:13s 0.7/ μm LmV:14s 0.5/ μm
			MPV=5.4 MSH=4.8 MLH=4.2 MLV=4.3
			Clear superposition of short- and long-period (T ca. 20 s) P-waves in the long-period broadband seismographs.
1.	e(P)	21 15 10.5	<u>North Atlantic Ocean</u> 58.40°N 32.83°W
	e	15 23	H = 21 09 42.3 h = normal MAG=4.4 (USCGS)
	LmH	25.8	D = 26.3°
	LmV	26	For the USCGS epicentre-calculation the P-onset must be 7 s later, but our first onset interpreted as e(P) is clear and the greatest onset in this minute.
1.	eP	21 33 13	<u>North Atlantic Ocean</u> 58.28°N 32.64°W
	LmH	43.8	H = 21 27 38.6 h = normal MAG=4.7
	LmV	43.9	D = 26.4° Az = 87.4° (USCGS)
			PV:1.3s 30.2nm
			LmH:15s 1.2/ μm LmV:16s 1.3/ μm
			MPV=4.8 MLH=4.5 MLV=4.7
1.	eP	21 36 42	<u>North Atlantic Ocean</u> 58.34°N 32.49°W
	e	36 50	H = 21 31 06.7 h = normal MAG=4.5 (USCGS)
			D = 26.5°
1.	ePg	23 18 56	<u>Italy</u> 45.9°N 10.9°E
	eSn	19 31	H = 23 17 27 (BCIS)
	i	19 42.5	D = 4.8°
	ISg	19 59	i 20 05
1.	eP	23 29 56	<u>Southern Alaska</u> 61.77°N 149.60°W
	epP	30 08.5	H = 23 19 09.8 h = 77 km MAG=5.2
	ePcP	30 23	D = 66.9° Az = 12.9° (USCGS); h = 48 km
	epPcP	30 35	PV:1.0s 26.1nm pPV:1.3s 35.0nm
	e	30 46	PcPV:1.2s 18.2nm
			MPV=5.4

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Day	Phase	h m s	Remarks
2.	eP	01 06 40.5	<u>Rat Islands/Aleutian Is.</u> 51.02°N 177.88°E
	epP	06 51.5	H = 00 54 40.7 h = 14 km MAG=5.2
	eS	16 40	D = 78.0° Az = 351.1° (USCGS); h = 40 km
	eSS	21(50)	LmH:17s 0.5/ μm LmV:16s 0.4/ μm
	LmH	44.5	MLH=4.9 MLV=4.9
	LmV	47.5	
2.	ePKP	08 17(35)	<u>Northern Easter Is. Cordillera</u>
	ePP	18 13	4.47°S 105.92°W
	eSKS	24 20	H = 07 59 05.7 h = normal MAG=5.1 (USCGS)
	eSKKS	25(16)	D = 110.6°
	ePS	27 40	LmH:16.5s 1.1/ μm LmV:18.5s 1.5/ μm
	eSS	33(40)	MLH=5.5 MLV=5.6
	LmV	09 07.3	e 17 44 e 18 27 e 25 55
	LmH	12.2	
2.	eP	10 50 08.5	<u>Eastern Gulf of Aden</u> 12.93°N 50.95°E
	e	50 12	H = 10 41 21.4 h = normal MAG=4.8
	e(pP)	50 17	D = 49.3° Az = 327.9° (USCGS); (h = 35 km) PV1:1.2s 15.8nm PV2:1.4s 19.0nm PV3:1.4s 14.3nm MPV=5.0
2.	e(Sg)	14 30 16	<u>Probably Yugoslavia</u> (UPP)
	e	30 25	
2.	eP	22 57 38	<u>Southern Alaska</u> 60.25°N 146.91°W
	epP	57 45	H = 22 46 39.5 h = 31 km MAG=4.9 D = 68.1° Az = 14.6° (USCGS); h = 27 km PV1:1.0s 17.4nm MPV=5.2
3.	eP	08 23 34	<u>Kurile Islands</u> 43.24°N 146.46°E
	e(pP)	23 45	H = 08 11 38.8 h = 69 km MAG=4.4 D = 78.6° Az = 332.6° (USCGS); h = 40 km PV1:1.0s 10.9nm PV2:1.6s 21.0nm MPV=4.9
3.	e	08 30 48	PV:0.9s 13.1nm

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Day	Phase	h m s	Remarks
3.	ePS	16 50 50	<u>Off Coast of Mexico</u> 10.16°N 104.19°W
	eSS	56 00	H = 16 24 20.7 h = 47 km MAG=5.3 (USCGS)
	LmH	17 24.7	D = 97.8°
	LmV	25.0	LmH:16s 0.5/ μm LmV:18s 0.8/ μm MLH=5.2 MLV=5.3
3.	ePKIKP	20 04 25	<u>Fiji Islands Region</u> 20.70°S 178.91°W
	ePKHKP	04 29	H = 19 45 47.6 h = 600 km MAG=4.7 (USCGS) D = 149.0°
4.	eP	04 48 46	<u>Andaman Islands Region</u> 12.19°N 93.08°E H = 04 37 04.5 h = normal MAG=5.4 D = 75.3° Az = 319.4° (USCGS) PV:1.6s 31.6nm MPV=5.2
4.	LmH	10 43.1	<u>West New Guinea</u> 2.48°S 138.76°E
	LmV	53.4	H = 09 41 23.8 h = 39 km MAG=6.0 (USCGS) D = 114.7° LmH:21.5s 1.8/ μm LmV:19.0s 1.3/ μm MLH=5.7 MLV=5.6
4.	eSS	22 44.5	<u>Columbia</u> 4.55°N 73.96°W
	LmV	23 06	H = 22 14 49.0 h = 5 km MAG=5.2 (USCGS)
	LmH	07	D = 90.5°
5.	ePKIKP	00 27 31	<u>Fiji Islands Region</u> 21.70°S 176.45°W
	ePKHKP	27 39	H = 00 08 05.1 h = 212 km MAG=4.7
	e	27 41.5	D = 150.4° Az = 349.6° (USCGS); h = ca. 195 km
	ePKP2	27 48.5	PV1:1.0s 21.8nm PV2:1.6s 47.5nm
	ep(PKHKP)	28 30	
5.	eP	09 00 10	<u>Rat Islands/Aleutian Is.</u> 51.80°N 176.54°E
			H = 08 48 20.3 h = 59 km MAG=4.8 (USCGS) D = 77.0°
5.	LmH	19 26.8	<u>New Hebrides</u> 15.85°S 167.42°E
			H = 17 58 31.0 h = 38 km MAG=5.4 (USCGS) D = 140.2° LmH:(10s) 0.6/ μm MLH=5.7

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Day	Phase	h m s	Remarks
5.	e	22 37(39)	<u>Greece</u> 38.53°N 21.91°E
	LmH	42.5	H = 22 34 14.1 h = normal MAG=4.3 (USCGS) D = 14.2°
6.	eP	12 35 54.5	<u>Dodecanese Islands</u> 36.68°N 26.61°E H = 12 31 57.9 h = 161 km MAG=4.6 D = 17.6° Az = 327.1° (USCGS) PV:1.4s 28.6nm MPV=4.4
6.	ePn	12 41 30.5	<u>Yugoslavia</u> 42.17°N 18.92°E
	ePg	42 26	H = 12 39 08.3 h = normal MAG=4.4
	eSn	43 22	D = 9.9° Az = 331.8° (USCGS)
	eSg	44 31	e 41 34 e 41 51
6.	eP	17 55(17)	<u>Kurile Islands Region</u> 47.61°N 155.24°E
	e(pP)	55(28)	H = 17 43 23.2 h = normal MAG=4.5 (USCGS) D = 77.2° (h = 41 km)
7.	e	02 53 15	
7.	iP	03 59 46	<u>Eastern Kazakh SSR</u>
	ePn	04 01 17	H = 03 52 00 h = 0 (UPP) D = ca. 41° Probably underground explosion.
7.	ePKIKP	16 14 03	<u>Solomon Islands</u> 5.15°S 154.71°E
	e	14 05	H = 15 55 11.5 h = 77 km MAG=5.5 D = 125.2° Az = 332.1° (USCGS)
7.	eP	16 32 12	<u>Honshu/Japan</u> 36.89°N 138.87°E H = 16 19 58.8 h = 43 km MAG=4.9 (USCGS) D = 81.2°
8.	eP	12 19 31	<u>South Atlantic Ridge</u> 22.51°S 10.75°W H = 12 07 49.7 h = normal MAG=5.4 D = 75.5° Az = 14.5° (USCGS) PV:1.4s 23.8nm MPV=5.1

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Day	Phase	h m s	Remarks
8.	+1P	21 29 50	<u>Halmahera</u> 2.40°N 128.44°E
	e(pP)	30 12	H = 21 15 52.8 h = 96 km MAG=6.9
	e(sP)	30 24	D = 104.8° Az = 324.0° (USCGS); (h = 90 km)
	-1PP	34 12	
	e(sPP)	34 46	PV1:9s 2.7/ μm PV2:2.0s 118.5nm
	ePPP	36 26	PPV:8s 9.1/ μm PPH:8s 4.2/ μm
	eSKS	40(10)	SPPV:12s 5.6/ μm SPPH:12s 2.7/ μm
	eSKKS	40 44	LmH:23s 19.1/ μm LmV:22s 22.4/ μm
	eS	41 24	MPV=7.3 MPPV=7.5 MPPH=7.3 MLH=6.6
	eSP	43 00	MLV=6.7
	eSPP	44 16	e 33 45 e 34 37 e 35 55
	ePKKP	45 35	
	eSS	48 50	
	eSSS	52 56	
	ePKPPKP	53(45)	
	LmH	22 17.0	
	LmV	19.7	
8.	iPKHKP	21 37 04	<u>Fiji Islands Region</u> 21.72°S 176.25°W
	i	37 41.5	H = 21 17 21.4 h = 80 km MAG=5.7 (USCGS) D = 150.5° PV:2.5s 346nm
8.	+eP	22 07 35	<u>Kurile Islands</u> 45.42°N 150.50°E
	e	07 39.5	H = 21 55 40.1 h = 32 km MAG=5.6
	e	07 47.5	D = 77.9° Az = 334.6° (USCGS) PV:1.4s 57.1nm MPV=5.5
9.	ePn	11 59(45)	<u>Italy</u> 44.0°N 9.9°E
	ePg	12 00 14	H = 11 58 04 (BCIS)
	eSn	00 54	D = 6.7°
	eSg	01 41.5	e 59 49 i 01 04.5 e 01 47
9.	iPg	14 09 26.0	<u>Explosion/GDR</u> 51.37°N 12.89°E
	iSg	09 42.0	D = 1.0° Yield: 4.25 t
9.	eP	18 51 48.5	<u>Venezuela</u> 10.82°N 69.47°W
	e	52 17.5	H = 18 39 58.2 h = 12 km MAG=5.0 (USCGS)
	e	52 35	D = 76.2°

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Day	Phase	h m s	Remarks
cont.			
9.	LmH	19 22.5	LmH:20s 0.5/ μ m LmV:18s 0.6/ μ m
	LmV	23.8	MLH=4.8 MLV=4.9
9.	iP	20 50 49.5	<u>Eastern Gulf of Aden</u> 14.68°N 52.29°E
	ePP	52 45	H = 20 42 06.3 h = 28 km MAG=4.9
	eSS	21 01.6	D = 48.6 Az = 326.4° (USCGS)
	LmH	(12)	e 50 51.5 e 50 56
	LmV	(15)	
9.	iP	23 24 02.5	<u>Kurile Islands Region</u> 48.76°N 156.33°E
	epP	24 15	H = 23 12 15.1 h = 29 km MAG=4.8
			D = 76.5° Az = 337.8° (USCGS); h = 46 km
10.	iP	02 38 54	<u>Sea of Okhotsk</u> 46.59°N 144.12°E
	e	40 16	H = 02 27 47.7 h = 335 km MAG=5.2 (USCGS)
	e	40 38	D = 75.0°
			PV:1.1s 13.3nm
			MPV=4.6
10.	eP	10 14 59	<u>Turkey</u> 39.20°N 41.44°E
	e	15(10)	H = 10 09 50.9 h = normal (USCGS)
	e	15 13	D = 23.7°
	LmH	10 28	
	LmV	28	
10.	eP	10 59 18	<u>Dodecanese Islands</u> 36.52°N 26.87°E
			H = 10 55 16.7 h = 144 km MAG=4.2 (USCGS)
			D = 18.2°
			PV:1.5s 45.0nm
			MPV=4.6
10.	eSg	11 03 51	Explosion?
10.	LmH	15(17)	<u>Easter Island Cordillera</u> 26.43°S 115.07°W
	LmV	(17)	H = 14 04 53.2 h = normal MAG=4.5 (USCGS)
			D = 132.9°

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Day	Phase	h m s	Remarks
10.	iPKIKP	17 50 49.0	<u>South of Fiji Islands</u> 23.35°S 179.82°E
	iPKHKP	50 55.5	H = 17 32 03.0 h = 550 km MAG=5.0 (USCGS)
	ePKP2	51 06	D = 151.2° h = 559 km
	epPKHKP	53 02.5	PV2:1.1s 22.2nm PV3:1.1s 13.3nm PV4:1.3s 27.9nm
11.	LmH	02 35	<u>Gulf of California</u> 27.85°N 111.14°W
	LmV	35.5	H = 01 42 10.5 h = normal MAG=4.8 (USCGS)
			D = 86.8°
			LmV:16s 0.2/ μ m
			MLV=4.7
11.	e	05 24 51	
11.	eP	16 06 13	<u>Burma-India Border Region</u> 26.98°N 95.76°E
			H = 15 55 20.0 h = 37 km MAG=5.0 (USCGS)
			D = 65.8°
11.	eiP	17 50 03	<u>Northern Columbia</u> 6.78°N 72.92°W
	e	50 05.5	H = 17 38 04.2 h = 167 km MAG=5.9
	epP	50 44	D = 81.3° Az = 39.9° (USCGS); h = 170 km
	e	50 47	
	esP	51 02	PV:1.1s 33.3nm
	ei	52 20	MPV=5.0
	eS	59 54	e 51 31.5 e 51 36.5 e 52 51.5
	esS	18 01 04	e 53 03.5 ei 53 30 e 53 50 e 54 03
			e 54 13
11.	eP	18 19 54	PV:2.0s 29.6nm
12.	LmH	02 11	<u>New Hebrides Islands</u> 15.90°S 166.96°E
	LmV	11	H = 00 42 25.5 h = 62 km MAG=4.3 (USCGS)
			D = 140.2°
			LmH:16s 0.3/ μ m LmV:16s 0.3/ μ m
			MLH=5.1 MLV=5.2
12.	eP	09 40 35.5	<u>Greece</u> 39°4'N 20.0°E
	e	40 54	H = 09 37 39 (BCIS)
	e	44 06	D = 12.4°
	e	45 00	

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Day	Phase	h m s	Remarks
12.	e	11 10 06	
	e(Sg)	10 23	
12.	e(P)	11 38 42	PV:1.0s 17.4nm
12.	-ePKIKP iPKHKP i(pPKP) ePP ePSKS eSP eSS eSSS LmH LmV	11 49 18 49 23 49 44 52 52 12 03 04 03 44 12 05 17 48 13 08.1 11.8	<u>Loyalty Islands Region</u> 23.07°S 170.59°E H = 11 29 40.3 h = 49 km MAG=6.1 D = 148.0° Az = 334.5° (USCGS); (h = 68 km) PV1:3.2s 1.6/ μ m PV2:9.5s 17.2/ μ m LmH:18s 6.1/ μ m LmV:18s 6.6/ μ m MLH=6.4 MLV=6.5 i 49 28.5 e 49 35
12.	ePKP	12 59 49	<u>Loyalty Islands Region</u> 23.07°S 170.57°E
	e	59 52.5	H = 12 40 06.3 h = normal MAG=4.8 D = 148.0° Az = 334.5° (USCGS) PV2:1.2s 13.6nm
12.	ePKP	13 33 59	<u>Loyalty Islands Region</u> 23.02°S 170.67°E H = 13 14 13.3 h = normal MAG=4.2 (USCGS) D = 148.0°
12.	ePKP e(pPKP) e(sPKP) e	14 25 03 25 14 25 17.5 25 27	<u>Loyalty Islands Region</u> 22.84°S 170.37°E H = 14 05 20.6 h = normal MAG=4.9 D = 147.7° Az = 334.4° (USCGS)
12.	eP i eS eSS LmH LmV	16 53 18 53 49 17 03 28 08 44 27.3 27.3	<u>Northern California</u> 39.39°N 120.13°W H = 16 41 01.7 h = 8 km MAG=5.4 D = 80.9° Az = 28.8° (USCGS) LmH:18s 12.4/ μ m LmV:20s 5.7/ μ m MLH=6.3 MLV=6.0
13.	ePKP	00 51 17	<u>Loyalty Islands</u> 23.04°S 170.50°E H = 00 31 30.9 h = 31 km D = 147.9° Az = 334.4° (USCGS)

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Day	Phase	h m s	Remarks
13.	ePKHKP eIPKP2 LmH LmV	01 10 27 10 30 02(19) (19)	<u>Loyalty Islands Region</u> 23.03°S 170.61°E H = 00 50 42.8 h = 28 km MAG=5.0 (USCGS) D = 148.0° PV2:1.0s 39.1nm
13.	ePKP epPKP	09 58 42 58 51	<u>Loyalty Islands Region</u> 23.10°S 170.61°E H = 09 38 56.5 h = normal MAG=4.9 (USCGS) D = 148.0° h = 32 km PV:1.2s 18.2nm
13.	ePKP epPKP	10 00 10 10 19.5	<u>Probably Loyalty Islands Region</u> (USCGS) PV:1.2s 15.9nm
13.	e(P) i eS LmH LmV	20 28(58) 29 15 33 10 39.2 (42)	<u>Turkey</u> 38.91°N 40.62°E H = 20 23 50.5 h = normal MAG=4.5 D = 23.5° Az = 309.4° (USCGS) LmH:18s 0.7/ μ m MLH=4.1
13.	ePKHKP e LmH LmV	23 13 51 14 07 00 31 33	<u>South of Tonga Islands</u> 24.07°S 175.42°W H = 22 53 57.9 h = 46 km MAG=5.5 D = 152.9° Az = 350.1° (USCGS) LmV:18s 0.5/ μ m MLV=5.4
13.	eP LmH LmV	23 52 32.1 00 03.5 03.5	<u>North Atlantic Ocean</u> 53.59°N 35.22°W H = 23 46 38.1 h = normal MAG=4.7 (USCGS) D = 28.4° LmV:16s 0.3/ μ m MLV=4.1
14.	LmH LmV	00(10) (10)	
14.	ePKP epP	00 32 14 32 23	<u>Loyalty Islands Region</u> 23.15°S 170.68°E H = 00 12 25.1 h = 19 km MAG=4.8 (USCGS) D = 148.2° h = 32 km

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Day	Phase	h m s	Remarks
14.	iPKP	00 40 45.0	<u>Loyalty Islands Region</u> 23.24° S 170.64° E
	ePKP	40 56	H = 00 21 01.3 h = 51 km MAG=5.0 (USCGS)
	e	41 03.5	D = 148.2° h = 39 km
	e	41 09	
14.	iP	00 56 05	<u>Arabian Sea</u> 14.55° N 56.44° E
	e	56 10	H = 00 47 03.6 h = 23 km MAG=5.0 (USCGS)
			D = 51.1°
14.	LmH	02 04	<u>Honshu/Japan</u> 36.37° N 138.02° E
			H = 01 14 22.8 h = 64 km MAG=4.6 (USCGS)
			D = 81.2°
			LmH:12s 0.4/ μ m
			MLH=5.0
14.	eP	23 33 32	<u>South Sandwich Islands Region</u>
	ePKKP	37 18	60.13° S 27.04° W
	ePP	38 16	H = 23 18 41.6 h = normal MAG=6.2 (USCGS)
	ePPP	40 32	D = 114.6°
	eSKS	44 06	PV:16s 1.2/ μ m SPH:16s 5.9/ μ m
	eS	46 18	SPV:16s 9.3/ μ m
	eSP	47 52	LmH:18.5s 30.4/ μ m LmV:19s 49.3/ μ m
	ePKKP1	48 04	MLH=6.9 MLV=7.1
	ePKKP2	48 11	e 48 16 e 57(35)
	eSS	54 12	The S-phase is the diffracted S around the core. ePKKP1 and ePKKP2 can be attributed to two different branches of the PKKP travel time curve.
15.	e	00 12 30	<u>Italy</u> 46.25° N 13.25° E
	e	12 52	H = 00 10 41 (BCIS)
	e	12 57.5	D = 4.5°
	eSg	13 04	
15.	ePKP	04 26 56	<u>Tonga Islands Region</u> 23.60° S 175.77° W
	e	27 02	H = 04 07 04.8 h = 67 km MAG=5.3
	LmH	05 40	D = 152.4° Az = 349.8° (USCGS)
	LmV	40	e 27 06 e 27 16.5 e 28 09

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Day	Phase	h m s	Remarks
15.	ePP	12 11 32	<u>South Sandwich Islands Region</u>
	eS	19 24	60.27° S 26.74° W
	eSP	21 10	H = 11 51 55.7 h = normal MAG=5.7 (USCGS)
	eSS	27 28	D = 114.6°
	e	31 00	LmH:17.5s 7.0/ μ m LmV:19s 12.3/ μ m
	LmV	55.6	MLH=6.3 MLV=6.5
	LmH	57.3	The S-phase is the diffracted S around the core.
15.	ePKP	14 34 05	<u>Loyalty Islands Region</u> 23.06° S 170.79° E
	ipPKP	34 13.5	H = 14 14 19.4 h = 26 km MAG=5.0
	e	34 26	D = 148.0° Az = 334.7° (USCGS); h = 30 km
	e	34 52	PV:1.2s 31.8nm
15.	eP	17 23 15	<u>Taiwan</u> 22.85° N 121.37° E
	e	23 21	H = 17 10 46.8 h = 47 km MAG=5.5
	ePP	26 32	D = 84.3° Az = 323.0° (USCGS)
	eS	33 34	PV:1.4s 47.6nm
	ePS	34 28	LmH:15s 7.8/ μ m LmV:16s 16.9/ μ m
	LmH	18 05.7	MPV=5.4 MLH=6.3 MLV=6.6
	LmV	06.1	e 23 29 e 23 35 e 23 39
15.	eP	17 37 14	<u>Taiwan Region</u> 22.9° N 121.3° E
			H = 17 24 45.6 h = 49 km MAG=4.8 (USCGS)
			D = 84.2°
16.	LmH	02 57	<u>Taiwan Region</u> 22.7° N 121.2° E
	LmV	57.2	H = 02 01 57.1 h = normal MAG=5.0 (USCGS)
			D = 84.3°
			LmH:16.5s 0.3/ μ m LmV:15s 0.7/ μ m
			MLH=4.8 MLV=5.2
16.	-IP	03 00 04.0	<u>Unimak Island Region</u> 54.05° N 163.46° W
			H = 02 48 21.8 h = 39 km MAG=5.3
			D = 75.6° Az = 3.2° (USCGS)
			PV:1.0s 52.3nm
			MPV=5.6

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Day	Phase	h m s	Remarks
16.	LmH	08 52.6	<u>West New Guinea Region</u> 1.82° S 134.25° E H = 07 50 39.7 h = 21 km MAG=5.4 (USCGS) D = 111.5° LmH:16s 0.7/ μ m MLH=5.4
16.	ePKP epPKP	13 31 39 31(48)	<u>Loyalty Islands Region</u> 22.99° S 170.58° E H = 13 11 54.5 h = normal MAG=5.1 D = 147.9° Az = 334.5° (USCGS); h = normal PV:0.9s 13.0nm
16.	ePKP	15 14 09	<u>Samoa Islands Region</u> 16.16° S 171.65° W H = 14 54 32.3 h = normal MAG=4.7 D = 145.5° Az = 356.3° (USCGS) PV:1.2s 22.7nm
16.	eP epP	17 22 23 22 33.5	<u>Unimak Islands Region</u> 53.77° N 163.08° W H = 17 10 39.0 h = 34 km MAG=4.9 D = 75.9° Az = 3.5° (USCGS); h = 38 km PV:1.1s 35.6nm pPV:1.6s 31.6nm MPV=5.4
16.	ePKP	17 24 32	<u>New Hebrides Islands</u> 18.66° S 169.00° E H = 17 05 25.2 h = 212 km MAG=5.9 D = 143.4° Az = 335.8° (USCGS) PV:1.2s 27.4nm
17.	ePKHKP	04 03 47	<u>Tonga Islands Region</u> 23.37° S 175.27° W H = 03 43 54.5 h = normal MAG=4.9 (USCGS) D = 152.3°
17.	ePKHKP ePKP2 ePP eSS LmH LmV	20 37(28) 37 45 41(20) 21 01 14 55.7 56	<u>Kermadec Islands</u> 27.69° S 176.60° W H = 20 17 26.0 h = 37 km MAG=5.2 (USCGS) D = 156.2° LmH:18.5s 1.0/ μ m LmV:18s 0.8/ μ m MLH=5.7 MLV=5.5

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Day	Phase	h m s	Remarks
17.	+ePKIKP -IPKHKP +IPKP2 epPKHKP epPKP2	21 24 49.5 24 51 24 55.7 25 48 25 52.5	<u>Fiji Islands Region</u> 20.73° S 176.27° W H = 21 05 26.8 h = 220 km MAG=4.6 D = 149.5° Az = 350.1° (USCGS); h = 220 km PV2:0.8s 39.1nm PV3:1.0s 39.1nm
18.	eP	05 34 22.5	<u>Hokkaido/Japan Region</u> 42.3° N 142.8° E H = 05 22 31.2 h = 73 km MAG=5.1 (USCGS) D = 77.9°
18.	eP	12 07 46	<u>Arabian Sea</u> 13.03° N 57.60° E H = 11 58 28.5 h = normal D = 52.8° Az = 324.9° (USCGS)
18.	LmH	13 03	<u>Burma-China Border Region</u> (USCGS)
18.	eP e e LmH LmV	14 27 28 27 31 27 39 57.4 15 00.6	<u>Junan Prov./China</u> 22.6° N 102.1° E H = 14 15 57.2 h = normal MAG=5.4 (USCGS) D = 73.2° LmH:18s 1.2/ μ m LmV:17s 1.0/ μ m MLH=5.3 MLV=5.2
18.	LmH LmV	16 16.8 17.5	<u>South Sandwich Islands Region</u> 60.38° S 26.96° W H = 15 14 24.9 h = normal MAG=5.4 (USCGS) D = 111.1° LmH:20s 0.7/ μ m LmV:20s 1.5/ μ m MLH=5.3 MLV=5.6
18.	eP e LmH LmV	19 56 57 57 57 20 39 39.4	<u>Taiwan</u> 23.04° N 121.22° E H = 19 44 30.4 h = 53 km MAG=4.8 (USCGS) D = 84.0° LmV:16s 0.6/ μ m MLV=5.1
18.	+IP ePP ePcP e i(PcS)	20 51 23.5 52 56 53(36) 57(08) 57 19	<u>Southern Iran</u> 27.84° N 54.31° E H = 20 43 53.3 h = 16 km MAG=6.2 D = 39.4° Az = 317.2° (USCGS) PV1:1.2s 141nm PV:6.5s 0.55/ μ m PPV:10s 0.7/ μ m PPH:11s 0.5/ μ m

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Day	Phase	h m s	Remarks
cont.			
18.	eS	20 57 30	SH:10s 0.9/ μ m
	eSS	21 00 10	LmH:16s 1.4/ μ m LmV:16s 1.6/ μ m
	LmH	09.9	MPV1=5.8 MPV=6.6 MPPV=5.5 MPPH=5.5
	LmV	12.2	MSH=5.7 MLH=4.9 MLV=5.0
19.	eP	02 09 02	<u>Turkey</u> 38.4° N 42.7° E
	e	10 56	H = 02 03 39 h = 35 km MAG=4.9 (USCGS)
	LmH	20	D = 25.2°
19.	eP	04 35 50	<u>Kurile Islands</u> 47.62° N 153.83° E
	i	36 39.5	H = 04 24 05.1 h = 80 km MAG=5.1
			D = 76.9° Az = 336.4° (USCGS)
19.	eP	05 14 59	<u>Burma-China Border Region</u> 23.87° N 97.58° E
	LmH	43	H = 05 03 46.6 h = 15 km MAG=5.1 (USCGS)
	LmV	50	D = 69.4°
			LmH:16s 0.5/ μ m LmV:16s 0.6/ μ m
			MLH=4.8 MLV=4.9
19.	LmH	07 18	<u>Near North Coast of New Guinea</u>
	LmV	18	3.66° S 144.23° E
			H = 06 06 37.8 h = 19 km MAG=5.2 (USCGS)
			D = 118.7°
			LmH:20s 0.4/ μ m LmV:20s 0.4/ μ m
			MLH=5.1 MLV=5.1
19.	ePKIKP	07 20 51	<u>Fiji Islands Region</u> 20.66° S 178.44° W
	ePKHKP	20 56	H = 07 02 12.8 h = 580 km MAG=5.3
	ePKP2	21 02.5	D = 149.0° Az = 347.5° (USCGS);
	ep(PKHKP)	23 14.5	h = ca. 650 km
	ep(PKP2)	23 21	PV1:1.0s 17.4nm PV2:1.1s 111nm
			PV3:1.0s 47.9nm
20.	ePKP	06 57 38.5	<u>Tonga Islands Region</u> 18.13° S 172.37° W
	e	57 50	H = 06 37 56.6 h = normal MAG=4.6
			D = 147.4° Az = 355.3° (USCGS)

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Day	Phase	h m s	Remarks
20.	LmH	10 23	<u>South Sandwich Islands Region</u>
	LmV	23	60.6° S 26.2° W
			H = 09 24 02.8 h = normal MAG=5.5 (USCGS)
			D = 115.2°
			LmH:25s 0.3/ μ m
			MLH=4.8
20.	ePKP2	17 52 23	<u>Kermadec Islands</u> 28.01° S 176.64° W
	LmH	19 10	H = 17 32 06.9 h = 68 km MAG=5.1 (USCGS)
	LmV	13	D = 156.5°
			LmH:15s 0.6/ μ m LmV:16s 0.7/ μ m
			MLH=5.5 MLV=5.5
20.	eP	20 44 39	<u>Kurile Islands Region</u> 44.73° N 150.37° E
	e(PcP)	44 48	H = 20 32 41.8 h = 45 km MAG=4.7
	e(pP)	44 53	D = 78.5° Az = 334.6° (USCGS);
	LmH	21 22.7	(h = 50 km)
	LmV	22.7	LmH:20s 0.7/ μ m LmV:20s 0.9/ μ m
			MLH=5.0 MLV=5.1
20.	eP	23 11 39	<u>Greenland Sea</u> 73.21° N 7.63° E
	e	12 09	H = 23 06 37.8 h = normal MAG=4.3
			D = 22.7° Az = 173.4° (USCGS)
			PV:1.2s 18.2nm
			MPV=4.8
20.	eP	23 48(28)	<u>Burma-China Border Region</u> 24.14° N 97.60° E
	e	48 43	H = 23 37 21.8 h = 28 km MAG=5.2
	LmH	00 23.5	D = 69.2° Az = 317.2° (USCGS)
	LmV	23.5	LmH:16s 0.4/ μ m LmV:16s 0.6/ μ m
			MLH=4.8 MLV=4.9
21.	e	13 51 26	Explosion?
	e(Sg)	51 31	
22.	eP	00 15 56	<u>Off E. Coast of Kamchatka</u> 52.59° N 159.49° E
	e	16 23	H = 00 04 28.0 h = 61 km MAG=5.2
	e	16 57	D = 73.6° Az = 339.3° (USCGS)
	LmH	(50)	PV:1.4s 33.3nm
	LmV	54.5	MPV=5.1

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Day	Phase	h m s	Remarks
22.	e(P)	04 27 46	<u>Probably Near West Coast of Honshu/Japan</u> (USCGS) P-first onset must be 6 s earlier.
22.	eP	19 09 46	<u>Southern Nevada</u> 37.38°N 114.20°W
	e	09 57	H = 18.57 36.5 h = normal MAG=5.3
	e	10 04	D = 80.3° Az = 31.6° (USCGS)
	e	10 09	LmH:17s 1.1/ μm LmV:16s 1.4/ μm
	LmH	46.3	MLH=5.3 MLV=5.4
	LmV	46.3	
22.	ePKP	21 54 54	<u>Samoa Islands Region</u> 16.95°S 172.81°W
	i	55 04.5	H = 21.35 09.2 h = 10 km MAG=4.4
	e	55 10	D = 146.2° Az = 354.9° (USCGS)
	LmV	23 10	LmH:18s 0.3/ μm LmV:18s 0.6/ μm
	LmH	10.5	MLH=4.7 MLV=5.0
22.	eP	22 05 38	<u>Eastern China</u> 26.24°N 104.42°E
			H = 21.54 12.1 h = 9 km MAG=5.3 (USCGS)
			D = 71.8°
23.	eP	01 41 47	<u>Kurile Islands Region</u> 44.72°N 150.33°E
	e	42 02	H = 01.29 47.2 h = 34 km MAG=5.2
	eS	51 40	D = 78.5° Az = 334.6° (USCGS)
	e(PS)	52 12	PV:2.0s 66nm
	LmV	02 20.0	LmH:18.5s 2.5/ μm LmV:19.5s 3.4/ μm
	LmH	20.4	MPV=5.4 MLH=5.6 MLV=5.7
23.	eP	02 18 29	<u>East Coast of Kamchatka</u> 52.89°N 159.74°E
			H = 02.07 02.4 h = 68 km MAG=4.9
			D = 73.4° Az = 339.5° (USCGS)
			PV:1.2s 15.3nm
			MPV=4.8
23.	IP	07 40 57	<u>Crete</u> 35.11°N 24.17°E
			H = 07.36 52.2 h = 139 km
			D = 18.0° Az = 333.4° (USCGS)

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Day	Phase	h m s	Remarks
23.	LmH	19 26	<u>South Sandwich Islands Region</u>
	LmV	26	59.55°S 26.25°W
			H = 18.25 53.0 h = normal MAG=5.6 (USCGS)
			D = 113.9°
			LmV:24s 0.8/ μm
			MLV=5.3
23.	eP	20 45 20	<u>Eastern Mediterranean Sea</u> 34.17°N 27.17°E
	e	45 25	H = 20.40 59.0 h = 178 km
	e	45 31	D = 20.0° Az = 330.1° (USCGS)
	ei	45 34.5	LmV:12s 0.4/ μm
	LmH	54.8	MLV=4.1
	LmV	54.8	
23.	LmH	23 57	<u>Greece</u> 38.64°N 22.06°E
	LmV	57.1	H = 23.48 03.0 h = 88 km MAG=4.4 (USCGS)
			D = 14.1°
			LmV:10s 0.4/ μm
			MLV=4.0
24.	eP	10 08 17	<u>Southern Iran</u> 27.37°N 54.53°E
	ePP	09 48	H = 10.00 46.4 h = normal MAG=5.4 (USCGS)
	ePcP	10 22	D = 39.6°
	eS	14 24	LmH:18s 0.8/ μm LmV:14s 1.0/ μm
	LmV	30.0	MLH=4.6 MLV=4.8
	LmH	30.4	e 08 38 ei 08 53 e 10 31.5
24.	ePKP	17 08 02	<u>Loyalty Islands Region</u> 22.36°S 171.57°E
			H = 16.48 31.7 h = 127 km MAG=5.1
			D = 147.7° Az = 335.9° (USCGS)
25.	-eIP	06 15 18	<u>Guerrero/Mexico</u> 18.28°N 100.83°W
	+epP	15 38.5	H = 06.02 26.4 h = 60 km MAG=6.1 (USCGS)
	eSKS	25 48	D = 89.4° h = 77 km
	eS	26 10	PV1:1.9s 141nm PV2:2.0s 93.5nm
	eSP	27 10	LmH:20s 0.7/ μm LmV:17s 0.9/ μm
	eSS	32 15	MPV=5.9 MLH=5.1 MLV=5.3
	LmH	56.6	e 15 23 e 40 48
	LmV	58.3	

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Day	Phase	h m s	Remarks
25.	ePKP	06 52 40	<u>Loyalty Islands Region</u> 21.38° S 170.37° E H = 06 33 18.1 h = 179 km MAG=4.7 (USCGS) D = 146.4°
25.	ePKP	08 56 04	<u>Loyalty Islands Region</u> 22.89° S 170.51° E
	e	56 15	H = 08 36 19.4 h = normal MAG=4.9 D = 147.8° Az = 334.5° (USCGS)
25.	+1P	20 31 10.5	<u>Off East Coast of Kamchatka</u>
	e	31 28	52.97° N 159.75° E
	LmH	21 02	H = 20 19 42.5 h = 48 km MAG=5.3 (USCGS)
	LmV	02	D = 73.2° PV:1.0s 37.9nm MPV=5.3
26.	eP	00 01 19	<u>Near East Coast of Honshu/Japan</u>
	e(pP)	01 32.5	35.44° N 140.49° E
	LmH	(35)	H = 23 49 00.6 h = 76 km MAG=4.7 (USCGS)
	LmV	41	D = 82.9° (h = 50 km)
26.	eP	04 35 16	<u>Taiwan Region</u> 22.31° N 117.89° E
	e(pP)	35 22	H = 04 22 51.2 h = 19 km MAG=5.5
	e	35 30	D = 82.8° Az = 322.0° (USCGS);
	e	36 26	(h = 22 km)
	LmH	05(11)	LmH:14s 0.4/ μ m
	LmV	(16)	MLH=5.2
26.	+eP	05 21 28	<u>India-China Border Region</u> 27.50° N 92.63° E
	-epP	21 33	H = 05 10 58.1 h = normal MAG=5.6 (USCGS)
	ePcP	22 02	D = 63.8° h = 19 km
	eS	30 00	PV:1.2s 51.1nm pPV:1.2s 48.5nm
	eSS	34 08	PcPV:1.6s 37.9nm
	LmH	52.1	LmH:15s 2.6/ μ m LmV:14s 3.8/ μ m
	LmV	52.1	MPV=5.6 MLH=5.5 MLV=5.7 e 22 22
26.	e	19 52 10	
	e	52 15	

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Day	Phase	h m s	Remarks
26.	LmH	19 52.5	<u>Honshu/Japan</u> 36.26° N 138.40° E
	LmV	53.5	H = 19 03 20.7 h = normal MAG=4.3 (USCGS) D = 81.5° LmH:14s 0.5/ μ m LmV:14s 0.3/ μ m MLH=5.0 MLV=4.9
27.	LmH	11 05	<u>Probably Greece</u> (USCGS)
27.	eP	15 12 18	<u>Svalbard Region</u> 76.37° N 9.75° E
	e	12 21	H = 15 06 48.1 h = normal MAG=4.8
	e	12 24	D = 25.8° Az = 177.3° (USCGS)
27.	e(P)	16 19 53	
27.	LmH	18(33)	<u>South of Mariana Islands</u> (USCGS)
28.	eP	14 11 22	<u>Junnan Province/China</u> 27.43° N 100.07° E
	e	11 25	H = 14 00 22.9 h = normal MAG=6.2 (USCGS)
	ePP	13 52	D = 68.5°
	ePPP	15 38	PV2:2.8s 607nm PPPV:8s 1.3/ μ m
	eS	20 24	SH:15s 3.3/ μ m ScSH:7.5s 1.5/ μ m
	ePS	20 54	LmH:20s 14.7/ μ m LmV:17s 11.0/ μ m
	ePPS	21 06	MPV2=6.2 MSH=6.2 MLH=6.3 MLV=6.2
	eScS	21 28	The first P-onset is much smaller than
	ePKPKP	39 42	the second one.
	LmH	41.6	
	LmV	48.0	
29.	ePKHKP	03 03 38	<u>Fiji Islands Region</u> 19.95° S 176.22° W
	ep(PKHKP)	04 40	H = 02 44 19.0 h = 246 km MAG=5.5
	eSKP	07 06	D = 148.7° Az = 350.4° (USCGS);
			h = ca. 230 km
			PV:1.6s 91.0nm
30.	eP	06 07 14	<u>Uzbek SSR</u> 38.9° N 64.5° E
	e	07 17	H = 05 59 48 (BCIS)
	e	07 32	D = 38.5°
	LmH	31.7	LmH:18s 1.0/ μ m
			MLH=4.7

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Day	Phase	h m s	Remarks
30.	eP	09 42 38	<u>Northern Chile</u> 18.26°S 69.70°W
	epP	43 10	H = 09 29 11.6 h = 122 km MAG=5.2 (USCGS)
	eSKS	53 05	D = 98.6° h = 125 km
	eS	53 55	
	LmH	10 23.5	
	LmV	23.5	

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Day	Phase	h m s	Remarks
1.	eP	07 46 46	<u>West Pakistan</u> 34.83°N 71.00°E
	e	48 59	H = 07 38 29.0 h = 25 km MAG=5.3 (USCGS)
	ePPP	49(12)	D = 45.2°
			PV:1.6s 15.2nm
			MPV=4.8
1.	e	08 54 49	Explosion
	1Pg	54 51	D = ca. 1.4°
	1Sg	55 10	
1.	i	11 34 51	<u>Explosion/CSSR</u> 50.6°N 14.0°E
	1Pg	34 52.5	D = 1.5° Yield: 18.3 t
	1Sg	35 12.5	
2.	eP	02 36(06)	<u>Northeastern China</u> 43.71°N 125.23°E
	LmH	03 05.6	H = 02 24 57.1 h = normal MAG=4.5 (USCGS)
	LmV	07.0	D = 69.7°
			LmH:14.5s 1.3/μm LmV:13.5s 0.5/μm
			MLH=5.3 MLV=5.0
2.	eP	07 35 31.5	<u>Andreanof Is./Aleutian Is.</u> 51.59°N 174.51°W
	eI	35 33	H = 07 23 35.3 h = 34 km MAG=5.1 (USCGS)
	epP	35 47	D = 77.8° h = 59 km
	eS	45 25	PV2:1.8s 62.5nm
	ePPS	46 24	LmH:18s 1.9/μm LmV:16s 1.4/μm
	eSS	50(32)	MPV2=5.4 MLH=5.5 MLV=5.4
	LmH	08 16.8	
	LmV	19.2	
2.	-eP	11 24 19.5	<u>Rumania</u> 45.70°N 26.49°E
	eI	24 21.5	H = 11 21 44.9 h = 140 km MAG=5.3 (USCGS)
	eS	26 22	D = 11.1°
	eSS	26 36	PV2:1.6s 25.8nm PV:6s 1.0/μm
	LmH	27.5	PH:6s 0.95/μm
	LmV	27.5	e 24 28 e 24 39 e 25 07 e 25 16
2.	eIP	12 19 55	<u>Andreanof Is./Aleutian Is.</u> 51.63°N 174.65°W
			H = 12 08 00.6 h = 56 km MAG=4.5 (USCGS)
			D = 77.9°

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Day	Phase	h m s	Remarks
2.	IPKP	20 01 55	<u>West of Macquarie Islands</u> 53.65° S 140.10° E H = 19 42 09.6 h = 57 km MAG=5.2 (USCGS) D = 148.8°
3.	e(Sg)	20 29 19	<u>Austria</u> 47.4° N 13.5° E H = 20 27.5 (BCIS) D = 3.5°
4.	e(PKP2)	16 19 13	<u>West of Macquarie Islands</u> 53.72° S 140.50° E
	e	19 25	H = 15 59 22.7 h = 43 km (USCGS)
	e	19 45	D = 149.0°
4.	eP	17 08 19	
5.	1P	08 43 54.0	<u>Congo</u> 0.14° N 29.97° E
	epP	44 01	H = 08 34 40.6 h = normal MAG=5.4
	eS	51(24)	D = 52.7° Az = 345.4° (USCGS); h = 29 km
	eSS	55 20	PV2:2.0s 66.5nm PV3:2.0s 59.2nm
	LmH	09 11	LmH:16s 0.8/ μ m
	LmV	11	MLH=4.9
5.	ePKHKP	10 25 32.5	<u>Tonga Islands</u> 20.17° S 175.56° W H = 10 06 08.1 h = 196 km MAG=4.5 D = 149.1° Az = 351.1° (USCGS)
6.	eP	14 00 11	<u>East Coast of Kamchatka</u> 51.35° N 159.56° E
	LmH	35.2	H = 13 48 33.2 h = normal MAG=4.6 D = 74.8° Az = 339.5° (USCGS)
7.	ePg	14 06 04	<u>Explosion/GFR</u> 47.63° N 11.15° E
	eSg	06 41	H = 14 05 01.1 D = 3.0°
7.	iPg	15 05 20.5	<u>Explosion/GFR</u> 50.55° N 10.05° E
	i	05 35.8	H = 15 05 01.0
	iSg	05 36.5	D = 1.0° Yield: 8.4 t
7.	+IPKIKP	16 14 32.5	<u>Loyalty Islands</u> 21.61° S 170.54° E
	+IPKHKP	14 35.0	H = 15 55 10.8 h = 161 km MAG=6.4 (USCGS)
	ePP	17 50	D = 146.7°

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Day	Phase	h m s	Remarks
cont.			
7.	ePPP	16 21 10	PV1:1.6s 68.4nm PV2:1.6s 1500nm
	1SKKS	24 35	PPH:15s 3.1/ μ m PPV:16s 6.9/ μ m
	eSKSP	27 40	SKKSH:10s 5/ μ m SKSPV:10s 4/ μ m
	ePPS	30 40	LmH:22s 6.5/ μ m LmV:24s 6.4/ μ m
	eSS	36 50	MPPV=6.6 MPPH=6.6
	LmH	17 08.5	ei 14 44 1 15 20 i 15 25 ei 15 48
	LmV	17.7	e 17 36 e 31 48 e 41 25
7.	-iP	21 06 45.5	<u>South Alaska</u> 61.62° N 150.15° W H = 20 55 56.0 h = 56 km MAG=5.7 (USCGS)
	ei	06 49	D = 67.1°
	i	06 52.5	PV1:1.2s 150nm PV2:0.9s 61.0nm
	ei	07 01	MPV=6.1
	ei	07 03.5	
8.	ePKP	00 31 51	<u>Fiji Islands</u> 16.42° S 177.56° W
	-ei	31 55	H = 00 12 18.1 h = normal MAG=5.7 (USCGS)
	e	31 59.5	D = 145.1°
	e	32 28	PV2:2.4s 193nm
	e	34 52	LmH:20s 2.8/ μ m LmV:18s 2.3/ μ m
	LmV	01 38.3	MLH=6.0 MLV=6.0
	LmH	38.5	ePKP is a small-amplitude precursor.
8.	ePKP	02 41 17	<u>Tonga Islands</u> 19.40° S 175.44° W
	e	41 19.5	H = 02 21 56.4 h = 241 km MAG=5.0
	e	41 55	D = 148.3° Az = 351.4° (USCGS)
	e	42 09.5	PV:1.3s 35nm
8.	ePKP	02 53 48	<u>Fiji Islands</u> 16.48° S 177.47° W
	e	53 52	H = 02 34 16.1 h = 57 km MAG=4.9 (USCGS)
	e	54 00	D = 145.2°
	LmH	04 00.0	PV2:1.8s 56.5nm
	LmV	00.0	LmH:19s 2.2/ μ m LmV:20s 2.6/ μ m
			MLH=6.0 MLV=6.0
8.	eiP	03 18 03	<u>Kodiak Island</u> 57.69° N 151.56° W
	ipP	18 09	H = 03 06 46.4 h = 32 km MAG=5.0
	e	18 26	D = 71.1° Az = 11.2° (USCGS); h = 23 km
			ANUSSR gives: Kodiak Island 58.5° N 152.7° W
			H = 03 07 21 h = 310 km
			D = 70.4°

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Day	Phase	h m s	Remarks
8.	e	04 10 04.5	<u>Probably Mariana Islands Region</u>
	e	10 14.5	17.61°N 147.30°E
	e(PP)	10 26	H = 03 52 23.8 h = 30 km MAG=5.0 (USCGS)
	e	10 36	D = 101.7°
8.	eP	12 14(28)	<u>Near East Coast of Honshu/Japan</u>
LmH	(55)	35.45°N 140.20°E	
LmV	(55)	H = 12 02 08.9 h = 65 km MAG=4.9 (USCGS)	
		D = 82.8°	
8.	ePKP	15 02 40	<u>Fiji Islands</u> 15.60°S 177.78°W
		H = 14 43 53.9 h = 420 km MAG=4.8	
		D = 144.2° Az = 349.8° (USCGS)	
		PV:1.4s 35.8nm	
8.	eP	17 55 52	<u>Andreanof Is./Aleutian Is.</u> 51.64°N 173.83°W
epP	56 06	H = 17 43 56.1 h = 35 km MAG=5.5 (USCGS)	
e	56 09.5	D = 78.0° h = 50 km	
e	56 16	PV:1.4s 43.0nm pPV:1.6s 31.6nm	
eSS	18 11 11	LmH:18s 0.3/um LmV:18s 0.3/um	
LmH	41.2	MPV=5.4 MLH=4.7 MLV=4.7	
LmV	41.2		
8.	eP	21 09 29	<u>Kurile Islands</u> 46.44°N 153.05°E
		H = 20 57 33.4 h = normal MAG=4.2 (USCGS)	
		D = 77.8°	
9.	ePKIKP	02 25 05	<u>Fiji Islands</u> 17.83°S 178.18°W
IPKHKP	25 07	H = 02 06 35.3 h = 639 km MAG=4.8	
ePKP2	25 09	D = 146.3° Az = 348.7° (USCGS);	
e(pPKP)	26 08	(h = ca. 250 km)	
		PV2:1.1s 40.0nm	
		e(pPKP) is a small but very clear onset.	
9.	eP	06 56 24	<u>Sudan</u> 12.60°N 30.84°E
i	56 50.0	H = 06 48 40.3 h = 11 km MAG=5.1 (USCGS)	
ePP	58 04.5	D = 41.0°	
eScP	07 02(16)	PV:1.2s 45.5nm PPV:9s 0.6/um	
eS	02 36	SH:13s 3.0/um	
eSS	05 20	LmH:17s 7.9/um LmV:18s 8.3/um	

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Day	Phase	h m s	Remarks
cont.			
9.	eLR	07 07 20	MPV=5.6 MPPV=5.4 MSH=6.1 MLH=5.6
	LmH	13.0	MLV=5.7
	LmV	15.5	e 57 26 e 58 31 e 58 40 e 07 20 Higher-mode surface waves are registered.
9.	eP	08 23 02	<u>Gulf of California</u> 31.32°N 114.31°W
e		23 06	H = 08 10 28.0 h = normal MAG=5.0
LmH	09 02.1	D = 85.5° Az = 31.1° (USCGS)	
LmV	03.4	LmH:15.5s 0.85/um LmV:16s 0.75/um	
		MLH=5.3 MLV=5.2	
		ANUSSR gives: USA 35.0°N 112.6°W	
		H = 08 10 48 h = normal	
		D = 81.6°	
9.	eP	10 36 09	<u>Sudan</u> 12.64°N 31.06°E
e		36 29	H = 10 28 27.8 h = 44 km MAG=4.2
eS	42 20	D = 41.1° Az = 341.2° (USCGS)	
eSS	45(18)	LmH:17s 0.9/um LmV:17s 1.0/um	
LmH	54.2	MLH=4.7 MLV=4.8	
LmV	55.2		
10.	LmH	21 24.5	<u>La Rioja Prov./Argentina</u> 29.83°S 67.42°W
LmV	24.5	H = 20 25 37.9 h = 52 km MAG=4.8 (USCGS)	
		D = 105.8°	
		LmH:20s 0.3/um LmV:20s 0.4/um	
		MLH=4.9 MLV=5.0	
10.	eP	21 28 38	<u>Southeastern Alaska</u> 57.41°N 136.19°W
		H = 21 17 34.5 h = normal MAG=4.8	
		D = 69.1° Az = 21.3° (USCGS)	
		PV:1.4s 28.6nm	
		MPV=5.3	
11.	ePKP	00 17 56	<u>Samoa Islands</u> 15.86°S 172.71°W
e		18 09	H = 23 58 23.8 h = normal MAG=4.6
e	18 19	D = 145.1° Az = 355.2° (USCGS)	
LmH	01(30)		
LmV	(30)		

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Day	Phase	h m s	Remarks
11.	e(P)	02 58 17.5	<u>Probably Yugoslavia or Albania</u> (after Vienna)
	LmH	03 01.6	
	LmV	01.7	e 58 19 e 00 46.5 e 00 53
11.	iPn	03 30 54.5	<u>Austria</u> 47.4°N 13.5°E
	eSn	31 36	H = 03 30 00 (BCIS)
	eISg	31 51.5	D = 3.4°
11.	ePKIKP	06 44 31	<u>South Sandwich Islands</u> 60.26°S 26.03°W
	ePP	45 30	H = 06 25 55.1 h = 37 km MAG=5.9 (USCGS)
	e(PS)	55 16	D = 114.6°
	e(PPS)	56 28	LmH:21s 1.9/um LmV:23s 3.8/um
	eSS	07 01 44	MLH=5.7 MLV=5.9
	LmV	28.8	e 44 35 e 01 16
	LmH	31.8	
11.	ePP	08 19 18	<u>South Sandwich Islands</u> 60.38°S 26.15°W
			H = 07 59 41.8 h = 35 km MAG=5.3 (USCGS)
			D = 114.7°
11.	eP	10 17 32	<u>Szechwan Prov./China</u> 28.00°N 103.79°E
	LmH	45.0	H = 10 06 19.9 h = 31 km MAG=4.7
	LmV	50.5	D = 70.2° Az = 317.5° (USCGS)
			PV:1.8s 31.3nm
			LmH:18s 0.6/um LmV:12s 0.4/um
			MPV=5.2 MLH=4.9 MLV=5.0
11.	ePKP2	21 01(26)	<u>South of Kermadec Islands</u> 32.62°S 178.72°W
	ePP	05 08	H = 20 40 39.8 h = normal MAG=5.1 (USCGS)
	eSS	25.2	D = 160.4°
	eSSS	31.5	LmH:19s 0.7/um LmV:18s 0.9/um
	LmH	22 22.5	MLH=5.5 MLV=5.6
	LmV	23.1	e 01 37 e 01 50
12.	iPKIKP	00 25 10.0	<u>South of Timor</u> 11.85°S 121.75°E
	ePP	25 55	H = 00 06 37.8 h = normal MAG=5.7
	eSKS	31 52	D = 111.8° Az = 319.9° (USCGS)
	eSKKS	32 54	SPV:12s 1.5/um SPH:11s 0.9/um
	eS	33 40	LmH:20s 1.2/um LmV:20s 1.5/um
	eSP	35 22	MLH=5.5 MLV=5.6

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Day	Phase	h m s	Remarks
cont.			
12.	1PKKP	00 36 06	1 25 36.5 e 25 41 e 26(00) e 46 32
	eSPP	36 30	
	eSS	41.1	
	LmH	01 17.7	
	LmV	18.0	
12.	ePKP2	04 42 58	<u>Kermadec Islands</u> 31.21°S 177.75°W
	ePS	56(52)	H = 04 22 14.0 h = 14 km MAG=5.2 (USCGS)
	eSS	05 06 32	D = 159.5°
	eSSS	12 40	LmH:17s 0.6/um LmV:17.5s 1.1/um
	LmH	06 09.5	MLH=5.5 MLV=5.7
	LmV	09.5	e 04 42 43 e 42 50 e 43 03
12.	eP	08 31 35	<u>Southern Alaska</u> 60.41°N 144.96°W
	epP	31 42	H = 08 20 38.4 h = 25 km MAG=4.4 (USCGS)
			D = 67.5° h = 27 km
12.	LmH	16(48)	<u>South Sandwich Islands</u> (USCGS)
	LmV	(52)	
12.	eP	20 32(50)	<u>Near Coast of Nicaragua</u> 11.21°N 86.19°W
	e	31 18	H = 20 20 06.8 h = 43 km MAG=5.6 (USCGS)
	LmH	21 10.3	D = 87.7°
	LmV	10.9	LmH:17.5s 0.7/um LmV:18s 1.4/um
			MLH=5.2 MLV=5.4
13.	eP	01 28 15	<u>Dodecanese Islands</u> 36.23°N 27.91°E
	e	28 21.5	H = 01 23 58.5 h = 46 km MAG=4.4
	eI	28 41	D = 18.6° Az = 325.9° (USCGS)
	LmH	36.2	
	LmV	36.2	
13.	eP	02 26 49	<u>Gulf of Alaska</u> 59.49°N 145.20°W
	e	26 54	H = 02 15 45.2 h = 10 km MAG=5.0
	LmH	03 03	D = 68.6° Az = 15.6° (USCGS)
			PV:1.5s 27.5nm
			LmH:14s 0.3/um LmV:14s 0.4/um
			MPV=5.2 MLH=4.7 MLV=4.8

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Day	Phase	h m s	Remarks
13.	i(P)	15 58 17.5	<u>Peru-Brazil Border Region</u> 8.75° S 74.35° W H = 15 45 15.6 h = 155 km MAG=5.3 (USCGS) D = 80.8° First onset of P must be 4 s earlier.
13.	eP	18 56 28	<u>Aleutian Islands</u> 53.1° N 172.0° E
	eSKS	19 06 24	H = 18 45 04 h = 174 km
	e	07 04	D = 75.3° (ANUSSR)
	e	07 24	SKSH:14s 0.8/ μ m
	LmH	39.0	LmH:14.5s 2.0/ μ m LmV:16s 1.9/ μ m
	LmV	39.1	Well developed surface waves. Focal depth given from ANUSSR seems to great.
14.	eP	01 14 10	<u>Southern Sinkiang Prov./China</u>
	e	14 15	36.42° N 87.46° E
	e	14 19	H = 01 04 43.3 h = 24 km MAG=5.2
	eS	21 48	D = 54.4° Az = 310.6° (USCGS)
	ePP	22 06	PV1:1.6s 36.8nm PV2:1.9s 113nm
	eSS	25 30	PV:8s 0.95/ μ m
	eLg1(3.49)	33 38	LmH:16.5s 5.7/ μ m LmV:14s 3.0/ μ m
	eLg2(3.28)	35 24	MPV1=5.3 MPV2=5.7 NPV=5.7 MLH=5.7
	LmH	36.2	MLV=5.5
	LmV	42.0	e(sa) 26(25) e 34 32
			Well developed higher mode surface waves. P is multiple.
14.	iP	01 20 29	<u>Southern Sinkiang Prov./China</u>
	i	20 31.5	39.39° N 80.18° E H = 01 11 51.6 h = normal MAG=4.8 D = 48.1° Az = 307.2° (USCGS) PV2:1.3s 18.6nm MPV2=5.0
14.	e(PKP)	02 52 14	<u>Tonga Islands</u> 15.09° S 173.47° W
	e	56 40	H = 02 32 31.8 h = normal MAG=4.8 (USCGS)
	LmH	04(00)	D = 144.4°
	LmV	(00)	PV:1.5s 17.5nm
14.	LmH	23 19.5	

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Moxa

Day	Phase	h m s	Remarks
15.	-eP	07 01 54	<u>Rumania</u> 45.66° N 26.31° E
	+i	01 56.0	H = 06 59 16.9 h = 120 km MAG=4.8 (USCGS)
	ePP	02 02.5	D = 11.0°
	LmH	07.1	PV2:2.0s 163nm
	LmV	07.1	e 02 32 1 02 50 i 03 10 e 03 31 e 04 17.5 e 04 32 e 04 50
15.	e(P)	07 02 20	<u>Probably Eastern Gulf of Aden</u>
	e(PP)	04 04	13.02° N 50.53° E
	e	10 08	H = 06 54 20.2 h = normal MAG=4.7 (USCGS)
	e	13 55	D = 44.0°
	LmH	(25)	P-waves from this quake are superimposed
	LmV	(28)	from the waves of the Rumania earthquake.
15.	ePKP	08 49 28	<u>Fiji Islands</u> 17.98° S 178.42° W
	ei	49 30.5	H = 08 30 51.3 h = 576 km MAG=4.8 (USCGS)
			D = 146.6°
			PV:1.4s 38.1nm
15.	eiP	18 12 04	<u>Hokkaido/Japan Region</u> 41.84° N 142.90° E
	ei	12 15	H = 18 00 07.3 h = 61 km MAG=5.1 (USCGS)
	LmH	41.5	D = 78.6°
15.	LmH	22(05)	<u>Probably Tonga Islands Region</u> (USCGS)
15.	e	22 59 55	
16.	LmV	07 44.3	<u>Near Coast of Northern Chile</u>
	LmH	45	19.70° S 70.37° W
			H = 06 48 38.6 h = 45 km MAG=5.0 (USCGS)
			D = 100.0°
			LmH:20s 0.24/ μ m LmV:22s 0.5/ μ m
			MLH=4.7 MLV=5.0
16.	ePP	09 29 52.5	<u>South of Honshu/Japan</u> 29.61° N 142.35° E
	eS	37 00	H = 09 13 31.0 h = 56 km MAG=5.5 (USCGS)
	e	37 24	D = 89.0°

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Moxa

Day	Phase	h m s	Remarks
16.	eP	09 35 06	<u>West Pakistan</u> 30.01°N 68.62°E
	e	35 09	H = 09 26 36.5 h = normal MAG=4.9
	e	35 24.5	D = 46.8° Az = 312.9° (USCGS)
	eS	42 00	PV2:2.2s 82.0nm PV3:2.0s 80.0nm
	LmH	59.6	LmH:13s 0.8/ μm LmV:13s 0.53/ μm
	LmV	10 00.6	MPV2=5.5 MLH=4.9 MLV=4.8
			i 35 35.5 e 53 40
16.	iPn	09 50 29	<u>Central Italy</u> $42 \frac{1}{2}^{\circ}\text{N}$ $13 \frac{1}{4}^{\circ}\text{E}$
	e	52 12.5	H = 09 48 29 (BCIS)
	e	52 41	D = 8.2°
	e(Sg)	52 54	e 53 41
16.	eSP	13 24.0	<u>South Sandwich Islands Region</u>
	LmH	(52)	56.08°S 27.05°W
			H = 12 55 30.8 h = 101 km MAG=5.6 (USCGS)
			D = 111.4°
17.	LmH	05-07	<u>Probably Santa Cruz Islands</u> (USCGS)
17.	iPKP2	07 49 15.0	<u>South of Fiji Islands</u> 23.53°S 179.97°E
	epPKP2	51 09	H = 07 30 07.1 h = 497 km MAG=5.1
			D = 151.5° Az = 344.4° (USCGS); h = 494 km
17.	ePKP	10 35(05)	<u>Santa Cruz Islands</u> 10.99°S 166.72°E
	ePP	37 40	H = 10 15 40.6 h = 55 km MAG=5.5
	eSKP	38 30	D = 135.5° Az = 337.5° (USCGS)
	eSS	55 30	LmH:16s 1.6/ μm LmV:24s 2.1/ μm
	LmH	11 26.2	MLH=5.8 MLV=5.7
	LmV	32.2	e 35 34 e 39 00 e 39 20
17.	eP	13 21 29.5	<u>Unimak Island</u> 53.20°N 163.83°W
			H = 13 09 40.2 h = normal MAG=4.9
			D = 76.5° Az = 3.0° (USCGS)
			PV:1.8s 31.2nm
			MPV=5.1
17.	LmH	14 53	<u>Santa Cruz Islands</u>

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Moxa

Day	Phase	h m s	Remarks
17.	ePKHKP	15 00 34	<u>Tonga Islands</u> 21.00°S 175.40°W
			H = 14 40 42.5 h = 8 km MAG=4.9
			D = 149.9° Az = 351.1° (USCGS)
17.	ePKIKP	18 38 43.5	<u>South of Fiji Islands</u> 22.31°S 179.12°E
	-iPKHKP	38 49.0	H = 18 20 07.8 h = 635 km MAG=5.0 (USCGS)
	ePKP2	38 58	D = 150.2° h = ca. 660 km
	e	39 29	PV2:1.4s 143nm PV3:1.8s 94.0nm
	epPKHKP	41 16	ANUSSR gives: 23.1°S 178.8°W
	e(pPKP2)	41 23	H = 18 18 58 h = normal
			D = 151.3°
17.	+eP1	21 55 31.5	<u>Near Coast of Peru</u> 10.72°S 78.70°W
	eP2	55 37.5	H = 21 41 56.3 h = 38 km MAG=6.3 (USCGS)
	e	59 20	D = 98.4°
	ePP	59 32	PV1:2.0s 96.3nm PV2:3.0s 1085nm
	eSKS	22 06 16	PV:18s 33.4/ μm PH:18s 7.9/ μm
	eS	06 56	PPV:18s 39.2/ μm PPH:16.5s 17.8/ μm
	eSS	13 32	LmH:17s 408/ μm LmV:17s 625/ μm
	ePKPPKP	20 22	MPV1=6.2 MPV2=7.1 MPV=7.8 MPH=7.6
	LmH	45.0	MPPV=7.5 MPPH=7.6 MLH=7.9 MLV=8.2
	LmV	45.5	P is multiple. The first P-onset is much smaller than the second one. Probably two shocks in the same focus.
18.	ePKHKP	04 22 02	<u>South of Fiji Islands</u> 23.16°S 179.31°E
	ePKP2	22 12.5	H = 04 03 09.0 h = 520 km MAG=4.8
			D = 150.9° Az = 343.8° (USCGS)
			PV1:1.4s 24.8nm
18.	ePKP	22 46 58	<u>Tonga Islands</u> 15.16°S 174.01°W
			H = 22 27 29.0 h = 62 km MAG=5.5
			D = 144.3° Az = 353.9° (USCGS)
19.	+1P	04 05 46.5	<u>Eastern Kazakh SSR</u> 49.75°N 78.03°E
	i	05 50.0	H = 03 57 57.7 h = 0 km MAG=5.6
	ePn	07 18.5	D = 41.2° Az = 297.7° (USCGS)
	ePP	07 22.5	PV:0.9s 113nm
			MPV=5.8
			Underground explosion.

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Moxa

Day	Phase	h m s	Remarks
19.	+eIP1	08 11 16	<u>North of Ascension Island</u> 1.55° S 15.48° W
	IP2	11 27.0	H = 08 01 33.8 h = normal MAG=6.2 (USCGS)
	iP3	11 33.5	D = 56.7°
	e1(PP)	13 10	PV1:1.5s 335nm PV2:1.9s 646nm
	ePa(8.03)	14 40	PV3:2.1s 1780nm SH1:11s 12.3/ μ m
	eS1	19 08	SH3:19s 47.4/ μ m
	eS3	19(25)	LmH:17s 137/ μ m LmV:16s 208/ μ m
	LmH	37.5	MPV1=6.2 MPV2=6.4 MPV3=6.8 MSH1=6.9
	LmV	37.5	MSH3=7.2 MLH=7.2 MLV=7.4
			Multiple P and S waves with successively increasing amplitudes. Multiple shocks in the same focus?
19.	ePKP	11 41 14	<u>Santa Cruz Islands</u> 12.62° S 167.16° E
			H = 11 22 14.7 h = 218 km MAG=5.1 (USCGS)
			D = 137.1°
			PV:1.4s 19.1nm
19.	eSKS	18 02 12	<u>Near Coast of Peru</u> 10.80° S 78.99° W
	ePS	04 32	H = 17 37 56.1 h = 41 km MAG=4.8 (USCGS)
	eSS	09 48	D = 98.7°
	LmV	41	LmV:16s 0.5/ μ m
	LmH	41.5	MLV=5.1
19.	eP	19 37 18	<u>Off East Coast of Kamchatka</u>
	epP	37 28	51.19° N 159.19° E
			H = 19 25 38.8 h = normal MAG=4.2
			D = 74.9° Az = 339.3° (USCGS); h = 38 km
19.	eP	19 48 04	<u>Off East Coast of Kamchatka</u>
	e	48 06	51.16° N 159.08° E
	epP	48 14	H = 19 36 24.9 h = 34 km MAG=4.6
	e	48 33	D = 74.9° Az = 339.2° (USCGS); h = 38 km
	LmH	20 27.0	PV2:1.4s 31.0nm pPV:1.3s 27.9nm
	LmV	27.0	LmH:14s 0.8/ μ m LmV:14s 1.1/ μ m
			MPV2=5.2 MLH=5.2 MLV=5.3

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Moxa

Day	Phase	h m s	Remarks
19.	IP	20 47 18	<u>Off East Coast of Kamchatka</u>
			51.21° N 159.08° E
			H = 20 35 40.1 h = normal MAG=4.9
			D = 74.8° Az = 339.2° (USCGS)
			PV:0.8s 17.4nm
			MPV=5.2
20.	eP	01 02 38	<u>Kashmir-Tibet Border Region</u> 33.56° N 78.53° E
	e	02 42	H = 00 53 38.7 h = 27 km MAG=5.0
	ePP	04(40)	D = 50.7° Az = 310.9° (USCGS)
	eS	09 52	PPV:2.0s 51.8nm
	eSS	13 22	LmH:16s 1.3/ μ m LmV:14s 2.1/ μ m
	LmH	22.8	MPPV=5.1 MLH=5.0 MLV=5.3
	LmV	26.3	
20.	e(Pn)	05 00 32	<u>Yugoslavia</u> $43 \frac{1}{4}^{\circ}$ N $17 \frac{3}{4}^{\circ}$ E
	e	00 34	H = 04 58 24 (BCIS)
	e(Pb)	00 56	D = 8.5°
	e(Sg)	03 02	PV2:1.4s 33.4nm
	LmH	03.3	e 00 38 e 02 30 e 02 36 e 02 50
	LmV	04.0	e 03 12 i 03 20
20.	ePn	09 40 09.5	<u>Northern Italy</u> 44.16° N 11.99° E
	ePg	40 42	H = 09 38 33.7 h = normal MAG=4.4
	iSn	41 23	D = 6.5° Az = 357.9° (USCGS)
	eSb	41 52	LmH:22s 0.6/ μ m
	eISg	42 06.5	MLH=3.1
	eLg2(3.31)	42 12	e 40 14 e 41 06 e 41 20 e 42 16
	LmH	42.8	
20.	ePKIKP	13 55 02	<u>New Hebrides Islands</u> 15.51° S 167.69° E
			H = 13 35 50.5 h = 139 km MAG=4.8
			D = 140.0° Az = 336.3° (USCGS)
20.	LmH	16 16.5	<u>Bismarck Sea</u> 3.47° S 146.05° E
	LmV	16.5	H = 15 03 46.9 h = 34 km MAG=5.2 (USCGS)
			D = 119.4°
			LmH:16s 0.3/ μ m LmV:16s 0.5/ μ m
			MLH=5.1 MLV=5.2

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Moxa

Day	Phase	h m s	Remarks
cont.			
25.	e	08 06 30	D = 145.4° Az = 355.2° (USCGS) PV:1.6s 18.4nm
25.	eIP	10 15 31.5	<u>West Pakistan</u> 29.94°N 68.90°E
	i(pP)	15 36.5	H = 10 06 58.1 h = 6 km MAG=5.3
	i(sP)	15 39.5	D = 47.0° Az = 312.9° (USCGS); (h = 18 km)
	ei	15 48	
	ePcP	17 04	PV1:1.4s 33.4nm PV2:1.2s 41.0nm
	eS	27(26)	PV3:1.4s 66.8nm PV4:1.5s 50.0nm
	LmH	40.8	PcPV:1.3s 32.5nm
	LmV	43.1	LmH:14.5s 1.4/ μ m LmV:11.5s 1.4/ μ m MPV=5.3 MLH=5.1 MLV=5.2
25.	+eP	18 16 25	<u>Honshu/Japan</u> 36.78°N 138.22°E
	e	16 36	H = 18 04 11.8 h = 28 km MAG=5.2
	eS	26(40)	D = 81.1° Az = 328.8° (USCGS)
	LmH	53.7	PV:1.8s 50.0nm
	LmV	57.6	LmH:11s 1.5/ μ m LmV:10s 0.7/ μ m MPV=5.4 MLH=5.6 MLV=5.3
26.	eIPKIKP	18 48 23.5	<u>New Hebrides Islands</u> 18.36°S 167.63°E
	LmH	19(50)	H = 18 28 54.1 h = 36 km MAG=5.6
	LmV	(50)	D = 142.5° Az = 334.8° (USCGS)
			PV:1.4s 28.6nm
26.	eP	19 35 49.5	<u>Dodecanese Islands</u> 35.06°N 27.00°E
	e	35 53.5	H = 19 31 27.5 h = 36 km
	e	36 16	D = 19.2° Az = 329.0° (USCGS)
27.	+iP	06 04 03	<u>Novaya Zemlya</u> 73.44°N 54.75°E
	ePcP	07 10	H = 05 57 58.0 h = 0 km MAG=6.3
	eS	08 50	D = 29.3° Az = 242.8° (USCGS)
	e	09 37	PV:1.5s 625nm
	e	12 50	LmH:13s 20.7/ μ m LmV:8.0s 7.7/ μ m
	eLg1(3.52)	13 24	MPV=6.2 MLH=6.0 MLV=5.8
	iL(3.19)	14 52	Probably underground explosion. Clear
	LmH	16.0	Love-waves and higher-mode surface waves
	LmV	19.4	in the longperiod registrations.

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Day	Phase	h m s	Remarks
27.	i	06 37 23.0	
	i	37 26.5	
	i	37 30	
27.	-eP	14 34 34	<u>North Pacific Ocean</u> 22.18°N 145.87°E
	epP	34 42.5	H = 14 21 04.8 h = 29 km MAG=6.0
	ePP	38 27	D = 97.0° Az = 332.6° (USCGS); h = 31 km
	e(PPP)	40 50	PV:1.9s 127nm pPV:1.8s 87.5nm
	eSKS	45 10	PPV:7s 1.15/ μ m SPV:12s 0.95/ μ m
	ePS	47 12	PSH:16s 1.4/ μ m
	ePPS	48 00	LmH:17s 5.3/ μ m LmV:18s 5.1/ μ m
	eSS	52 25	MPV=6.1 MPPV=6.4 MLH=6.1 MLV=6.1
	LmH	15 17.3	e 38 31 e 38 55 e 40 09 e 40 19
	LmV	20.2	e 41 28 e 45 40
27.	+eP	23 58 42.5	<u>Hokkaido/Japan</u> 41.69°N 141.87°E
	epP	59 01.5	H = 23 46 47.7 h = 71 km MAG=5.3 (USCGS)
			D = 78.4° h = 78 km
			PV:1.2s 22.7nm
			MPV=5.0
28.	LmV	03 03.8	<u>Solomon Islands</u> 9.64°S 159.77°E
	LmH	04.5	H = 01 41 19.1 h = 32 km MAG=5.5 (USCGS)
			D = 131.4°
			LmH:17s 0.4/ μ m LmV:18s 0.5/ μ m
			MLH=5.2 MLV=5.2
28.	LmH	04 25.5	
	LmV	25.5	
28.	eP	13 32 46	<u>Near S. Coast of Honshu/Japan</u>
	e	32 50	35.77°N 139.95°E
	e	33 22	H = 13 20 30.6 h = 83 km MAG=4.8 (USCGS)
	e	33 28	D = 82.5°
			PV:1.4s 23.8nm PV2:2.0s 37.0nm
			MPV=4.9
28.	LmH	15 50.1	LmH:12s 0.6/ μ m LmV:11s 0.4/ μ m
	LmV	51.4	

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Moxa

Day	Phase	h m s	Remarks
28.	eP	17 46 47	<u>Off East Coast of Kamchatka</u>
	e	46 58.5	51.08°N 159.14°E
	e	47 29	H = 17 35 07.4 h = normal MAG=4.4
	LmH	18 25	D = 75.0° Az = 339.3° (USCGS)
	LmV	25	LmH:16s 0.3/ μ m LmV:16s 0.2/ μ m
			MLH=4.7 MLV=4.6
28.	LmH	19 24.5	LmH:12s 0.4/ μ m LmV:14s 0.5/ μ m
	LmV	24.5	
28.	-ePKPK	22 31 22.5	<u>Loyalty Islands</u> 20.08°S 168.79°E
	eipPKP	31 29	H = 22 11 47.6 h = 19 km MAG=5.3 (USCGS)
	i	31 41.5	D = 144.5° h = 23 km
	e	31 45	PV1:1.4s 143nm PV2:1.6s 126nm
	e	32 17	LmH:18s 0.5/ μ m LmV:18s 0.6/ μ m
	LmH	23 44	MLH=5.3 MLV=5.4
	LmV	44.5	e 32 37 e 32 47
28.	ePKHKP	23 43 57	<u>Loyalty Islands</u> 22.51°S 170.85°E
	e	44 03.5	H = 23 24 14.5 h = 25 km MAG=4.9
	e	44 12	D = 147.6° Az = 335.1° (USCGS)
	e	44 34	PV:1.2s 27.3nm
29.	eP	00 57 19	<u>Off East Coast of Kamchatka</u>
	epP	57 28	51.09°N 159.07°E
	LmH	01 35.3	H = 00 45 39.7 h = 33 km MAG=4.3 (USCGS)
	LmV	35.3	D = 75.0° h = 33 km
			LmH:15s 0.6/ μ m LmV:16s 0.6/ μ m
			MLH=5.1 MLV=5.1
29.	+eP	02 42 38	<u>Greece</u> 39.24°N 21.25°E
	eS	45 06	H = 02 39 29.4 h = 20 km MAG=5.7 (USCGS)
	eLg1(3.46)	46 37	D = 13.3°
	eLg2(3.24)	47 07	PV:1.0s 261nm PLV:12s 0.6/ μ m
	eLR	48(00)	LmH:12s 55.5/ μ m LmV:10.5s 60/ μ m
	LmH	48.5	MLH=5.8 MLV=6
	LmV	49.2	i 42 45.0 i 42 54 e 45 16 e 45 56
			PL-waves are well developed in our long-period registrations. The S-onset is very small.

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Moxa

Day	Phase	h m s	Remarks
29.	1P	09 08 03.2	<u>Pakistan</u> 27.5°N 65.6°E
	1(pP)	08 16.2	H = 08 59 36 MAG=5
	1(sP)	08 25.2	D = 46.6° (ANUSSR)
	LmH	31	PV1:1.0s 19.6nm PV2:0.9s 32.6nm
			PV3:1.2s 68.2nm
29.	1P	10 58 05.2	PV:1.3s 23.2nm
29.	eP	12 17 32	<u>Eastern Mediterranean Sea</u> 34.85°N 27.80°E
	e	17 35	H = 12 13 06.0 h = 59 km MAG=4.9
	e	17 38	D = 19.7° Az = 328.2° (USCGS)
	LmH	26.5	LmV:10s 0.4/ μ m
	LmV	26.5	MLV=4.1
29.	+eIP	14 44 42	<u>Hokkaido/Japan Region</u> 41.77°N 144.11°E
	epP	44 51.5	H = 14 32 41.2 h = 41 km MAG=5.0 (USCGS)
	eS	54 40	D = 79.1° h = 35 km
	LmH	15 23.5	PV:1.4s 38.1nm pPV:1.5s 40.0nm
	LmV	23.5	LmH:16s 1.4/ μ m LmV:18s 1.1/ μ m
			MPV=5.3 MLH=5.4 MLV=5.3
29.	eP	14 54 54	<u>Hindu Kush Region</u> 36.71°N 69.81°E
			H = 14 46 57.0 h = 73 km MAG=4.9 (USCGS)
			D = 43.3°
29.	eSKS	15 56 35	<u>Off Coast of Peru</u> 10.67°S 79.01°W
	eS	57 30	H = 15 32 18.9 h = 22 km MAG=5.0 (USCGS)
	ePS	58 55	D = 98.5°
	eSS	16 04 14	LmH:19s 0.9/ μ m LmV:18s 1.2/ μ m
	eSSS	08 00	MLH=5.3 MLV=5.4
	LmH	31.1	
	LmV	31.1	
30.	eP	02 13 31.5	<u>Greece</u> 38.98°N 21.78°E
	e	13 41	H = 02 10 15.3 h = normal MAG=4.5 (USCGS)
	e	13 46.5	D = 13.7°
	e	13 56	PV:1.1s 13.3nm
	LmH	20.1	LmH:10s 0.7/ μ m LmV:10s 0.7/ μ m
	LmV	20.2	MLH=4.0 MLV=4.2
			e 14 06 e 14 20

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Moxa

Day	Phase	h m s	Remarks
30.	+1P	05 15 14.0	<u>Lake Tangayika Region</u> 3.46° S 30.04° E LmH 41.8 LmV 46.7
			H = 05 05 31.5 h = 6 km MAG=4.7 (USCGS) D = 56.2° PV:1.2s 20.5nm LmH:14s 0.4/ μ m LmV:11s 0.3/ μ m MPV=5.1 MLH=4.7 MLV=4.7
30.	eP	17 45 06	<u>Eastern Caucasus</u> 42.63° N 45.94° E
	e	45 12	H = 17 39 48.2 h = normal MAG=4.5
	e	45 21.5	D = 24.7° Az = 300.8° (USCGS)
	LmH	55.7	LmH:14s 0.4/ μ m MLH=4.0
30.	eP	19 16 36	<u>Near East Coast of Honshu/Japan</u>
	e	16 47.5	35.65° N 140.36° E
	LmH	50	H = 19 04 18.1 h = 76 km MAG=4.5 (USCGS) D = 82.8°

November 1966

Moxa

Day	Phase	h m s	Remarks
1.	eP	07 12 44	<u>Hokkaido/Japan</u> 43.2° N 143.4° E
	epP	13 16	H = 07 01 00.4 h = 127 km MAG=4.8 (USCGS)
	e	15 12	D = 77.5° h = 130 km
	e(PP)	15 57	PV:2.0s 120nm pPV:2.0s 150nm
	e(pPP)	16 27	MPV=5.3
			e(PP) and e(pPP) are clear onsets in the registrations of the shortperiod vertical components (T = 2.5 s), but PP and pPP must be about 10 s earlier.
1.	eP	22 26 31	<u>Crete</u> 35.08° N 23.84° E
	e(sP)	26 51	H = 22 22 26.5 h = 70 km MAG=5.0 (USCGS) D = 18.0° (h = 50 km)
2.	eP	12 03(08)	<u>Bonin Islands Region</u> 28.78° N 139.35° E
	e(pP)	04 54	H = 11 50 56.7 h = 421 km MAG=4.3 (USCGS) D = 88.5° (h = 475 km)
3.	ePKIKP	03 48 21.5	<u>New Hebrides Islands</u> 15.05° S 167.38° E H = 03 29 16.3 h = 153 km MAG=5.0 (USCGS) D = 140.6° ANUSSR gives: 15.7° S 165.9° E H = 03 29 02 h = normal D = 139.5°
3.	e(PP)	08 21 50	<u>Probably Bolivia</u> 17.57° S 63.65° W H = 08 04 53.6 h = 35 km MAG=4.4 (USCGS) D = 94.5°
3.	e	11 48 58	<u>Mona Passage</u> 19.13° N 67.86° W
	ePP	50 58	H = 11 37 22.7 h = 47 km MAG=5.2 (USCGS)
	e	51 29	D = 68.8°
	eS	57 28	LmH:20s 0.7/ μ m LmV:20s 0.7/ μ m
	ePS	57 54	MLH=4.9 MLV=4.9
	eSS	12 01(58)	
	LmH	13.8	
	LmV	13.8	
3.	e(P)	12 17 21	
	e	17 54	

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Moxa

Day	Phase	h m s	Remarks
3.	i(Pg)	12 32 17.0	Probably explosion.
	iSg	32 39.5	
3.	-eP	16 35 34	<u>Mona Passage</u> 19.20°N 67.95°W
	ePcP	36(00)	H = 16 24 31.0 h = 22 km MAG=5.6 (USCGS)
	ePP	38 11	D = 68.7°
	ePa(8.2)	40 02	PV1:2.0s 111nm PV2:2.1s 83.5nm
	eS	44 32	PV:10s 1.8 μm PH:10s 0.8 μm
	iS	44 40	SH2:13s 2.9 μm ScSH:17.5s 3.8 μm
	eScS	45 36	LmH:20s 12.9 μm LmV:20s 13.5 μm
	eSS	49.0	MPV1=5.7 MPV=6.2 MPH=6.2 MSH2=6.2
	eLR	56.7	MLH=6.2 MLV=6.2
	LmH	17 01.0	e 35 37.5 e 35 45 1 36 03.5 e 36 14
	LmV	01.1	e 36 20 e 38 30 e 39 22
3.	eP	21 53 12.5	<u>Carlsberg Ridge</u> 6.45°N 60.46°E
	e	53 28	H = 21 43 10.7 h = normal MAG=4.8
	e	54 00	D = 59.8° Az = 326.3°
	LmH	22(17)	
4.	eP	07 34 02	<u>Ryukyu Islands</u> 28.42°N 130.40°E
			H = 07 21 30.8 h = normal MAG=4.7
			D = 84.5° Az = 325.9° (USCGS)
4.	eIPKHKP	16 02 59	<u>South of Fiji Islands</u> 25.88°S 178.28°E
	iPKP2	03 13.2	H = 15 43 09.0 h = 620 km MAG=4.7 (USCGS)
			D = 153.3°
4.	e	17 34 09	<u>Austria</u> 47.4°N 11.4°E
	ePg	34 16	H = 17 33 16 (BCIS)
	i	34 38	D = 3.2°
	iSg	34 59.0	
4.	e	20 01 33	
	e	01 46	
5.	eSS	02 48.2	<u>Mid Indian Rise</u> 41.80°S 80.14°E
	eLQ	58.7	H = 02 13 51.2 h = normal MAG=5.5 (USCGS)
	LmH	03(19)	D = 109.7°

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Moxa

Day	Phase	h m s	Remarks
5.	e	02 49 46	<u>New Hebrides Islands</u> 19.18°S 169.22°E
	ePKIKP	49 51	H = 02 30 15.0 h = 29 km MAG=5.3 (USCGS)
	e	49 54	D = 143.9°
	LmH	03(53)	ANUSSR gives: 19.7°S 172.0°E
	LmV	(59)	H = 02 30 15 h = normal
			D = 145.5°
5.	ePKP	13 04 46	<u>Tonga Islands</u> 15.26°S 175.18°W
	e(pPKP)	04 52	H = 12 45 13.9 h = 38 km MAG=5.3
	e	04 57	D = 144.3° Az = 352.6° (USCGS);
	eSS	26(45)	(h = 21 km)
	ePSS	27 20	LmH:19s 3.4 μm LmV:22s 4.5 μm
	eSSS	32.0	MLH=7.2 MLV=7.2
	eLQ	43	
	LmV	14 06.5	
	LmH	11	
6.	eP	04 02 06	<u>Kurile Islands</u> 45.74°N 150.96°E
			H = 03 50 10.6 h = normal MAG=4.5
			D = 77.8° Az = 334.9° (USCGS)
6.	+iP	08 34 36.0	<u>North Atlantic Ocean</u> 59.77°N 29.98°W
	e	34 48	H = 08 29 14.3 h = normal MAG=4.8
	e	34 58	D = 25.0° Az = 92.8° (USCGS)
	e	35 25	LmH:14s 1.9 μm LmV:14s 2.6 μm
	LmH	45.5	MLH=4.7 MLV=5.0
	LmV	45.5	
6.	ePn	18 54 08	<u>Yugoslavia</u> 42.15°N 18.97°E
	ePg	54 55	H = 18 51 44.1 h = 34 km MAG=4.4
	eSn	55 54	D = 9.9° Az = 331.7° (USCGS)
	eLi(3.74)	56 38	e 54 12 e 54 23 e 55 47 e 56 30
	eLg1(3.49)	56 59	e 56 47 e 57 12
	eSg	57 07	
	iLg2(3.28)	57 19	
7.	eP	04 17(22)	<u>Tibet</u> 33.81°N 80.74°E
	e	17 34.5	H = 04 08 12.0 h = normal MAG=5.1 (USCGS)
	LmH	37.2	D = 52.0°

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Day	Phase	h m s	Remarks
7.	LmH	09 45	<u>Philippine Islands</u> (USCGS)
7.	ePKP	17 57 14	<u>Tonga Islands</u> 15.14° S 173.57° W
	e	57 19	H = 17 37 41.2 h = 45 km MAG=5.0 (USCGS)
	e	57 29	D = 144.3°
	LmH	19(04)	
8.	eP	11 47 42	<u>Near Islands/Aleutian Is.</u> 52.44° N 172.99° E
	e	47 48	H = 11 35 57.0 h = 41 km MAG=4.9 (USCGS)
			D = 76.0°
8.	e	14 27 28	<u>Yugoslavia</u> $43 \frac{3}{4}^{\circ}$ N $19 \frac{3}{4}^{\circ}$ E
	e	27 58	H = 14 23 10 (BCIS)
	e(Sg)	28 07	D = 8.9°
	e	28 18	
8.	e(P)	14 40 47	<u>Burma</u> 25.92° N 96.61° E
	e	40 52	H = 14 30 03.0 h = 51 km MAG=4.2 (USCGS)
			D = 67.3°
9.	eP	02 46 31	<u>Gulf of Alaska</u> 57.08° N 150.78° W
	e	46 33	H = 02 35 12.2 h = normal MAG=4.5
			D = 71.7° Az = 11.7° (USCGS)
9.	i(P)	09 00 15.5	
9.	LmH	12 15.3	<u>Northeast of Taiwan</u> 26.91° N 125.47° E
	LmV	20.9	H = 11 26 24.7 h = 39 km MAG=5.4 (USCGS)
			D = 83.2°
			LmH:15.5s $0.6/\mu\text{m}$ LmV:16s $0.9/\mu\text{m}$
			MLH=5.1 MLV=5.3
9.	eP	14 21 37	<u>Andreanof Is./Aleutian Is.</u> 51.86° N 173.75° W
	e	21 44	H = 14 09 44.4 h = 47 km MAG=4.8
	LmH	53.5	D = 77.8° Az = 356.5° (USCGS)
9.	e(P)	15 15 28	

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Day	Phase	h m s	Remarks
9.	eP	15 15 34.5	<u>Greece-Albania Border Region</u>
	ePPP	15 50.5	39.18° N 20.63° E
	e	19 05	H = 15 12 27.0 h = 30 km MAG=5.2
	eLg2(3.29)	19 50	D = 13.1° Az = 333.9° (USCGS)
	LmH	20.2	LmH:14.5s 2.0/ μm LmV:13s 1.2/ μm
	LmV	21.7	MLH=4.3 MLV=4.3
9.	eS	22 15(44)	<u>Mona Passage</u> 19.27° N 67.88° W
	ePPS	16(30)	H = 21 55 36.7 h = 14 km MAG=4.6 (USCGS)
	e	16 48	D = 68.7°
	LmH	32	LmH:22s 0.55/ μm LmV:22s 0.9/ μm
	LmV	32	MLH=4.7 MLV=4.9
10.	ePP	03 21 12	<u>San Juan/Argentina</u> 31.94° S 68.36° W
	epPP	21 38	H = 03 02 32.5 h = 113 km MAG=6.0
	eSKKS	28(05)	D = 108.2° Az = 41.3° (USCGS); h = 108 km
	eS	28 45	PPV:2.5s 77.0nm
	ePS	30 44	MPPV=5.8
	eSS	36.0	ANUSSR gives: h = normal
	eSSS	40.2	
11.	LPKP	10 06 59.2	<u>New Hebrides Islands</u> 18.82° S 168.89° E
			H = 09 47 36.7 h = 81 km MAG=4.9
			D = 143.5° Az = 335.6° (USCGS)
11.	+1P	15 42 58.0	<u>Fox Islands/Aleutian Is.</u> 52.28° N 169.11° W
	e1pP	43 09	H = 15 31 04.2 h = 38 km MAG=5.4
	esP	43 13.5	D = 77.4° Az = 359.5° (USCGS); h = 42 km
	eS	52 50	PV:1.7s 128nm pPV:1.7s 144nm
	eSS	58.0	sPV:1.7s 83.2nm
	eLQ	16 03	LmH:18s 1.2/ μm
	LmH	27.5	MPV=5.8 MLH=5.3
11.	eP	16 15 03	<u>Kurile Islands</u> 50.25° N 155.47° E
			H = 16 03 38.1 h = 145 km MAG=4.9
			D = 74.9° Az = 337.1° (USCGS)
			PV:1.8s 56.0nm
			MPV=5.4
			ANUSSR gives: h = normal

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Day	Phase	h m s	Remarks
11.	eIPn	16 17 40	<u>Yugoslavia</u> 45.57°N 15.81°E
	i	17 43.0	H = 16 16 13.7 h = 19 km MAG=5.0
	e(Pg)	18 07	D = 5.8° Az = 332.6° (USCGS)
	eSn	18 47	LmH:7s 1.7/ μm
	e	19 19	MLH=3.9
	i(Sg)	19 24.0	i 18 31.8 i 19 21.2 i 19 27.0 ei 19 32
	LmH	19.7	
11.	ePKP	18 16 39	<u>Fiji Islands Region</u> 17.52°S 177.18°W
			H = 17 57 43.4 h = 390 km MAG=4.7
			D = 146.2° Az = 349.9° (USCGS)
			PV:1.7s 39.0nm
11.	eP	18 33 26	<u>Off Coast of Northern California</u>
	LmH	10.5	40.32°N 127.13°W
			H = 18 21 05.4 h = normal MAG=4.5 (USCGS)
			D = 82.5°
11.	e	20 56 58	Near earthquake?
	e	57 08	
	e	57 13	
12.	eP	04 20 09	<u>Costa Rica</u> 8.69°N 83.56°W
			H = 04 07 27.0 h = 35 km MAG=4.4
			D = 86.7°
12.	e	08 31 02	
12.	e	10 11 20	
	e	11 32	
12.	eP	12 25 39	<u>West Pakistan</u> 25.02°N 67.96°E
	epP	25 42	H = 12 16 43.5 h = 5 km MAG=5.1
	LmH	47.2	D = 49.9° Az = 316.1° (USCGS); h = 12 km
			PV:1.1s 22.2nm
			LmH:16s 2.2/ μm
			MPV=5.2 MLH=5.2
			ANUSSR gives: Afghanistan 31.2°N 66.7°E
			H = 12 18 10 h = 517 km
			D = 44.8°

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Moxa

Day	Phase	h m s	Remarks
12.	+1P	13 01 46.0	<u>Hokkaido/Japan</u> 41.80°N 144.08°E
	+1pP	01 55.4	H = 12 49 43.6 h = normal MAG=5.8
	eS	11 42	D = 79.0° Az = 331.4° (USCGS); h = 35 km
	e(SS)	16 52	PV:1.6s 290nm pPV:1.7s 189nm
	e	17 32	LmH:26s 18.5/ μm LmV:18s 11.5/ μm
	LmH	33.3	MPV=6.5 MLH=6.3 MLV=6.3
	LmV	40.4	
12.	e	19 04 14	<u>New Hebrides Islands</u> 15.64°S 167.26°E
	ei	04 24	H = 18 45 01.0 h = 40 km MAG=5.2
	eIPKIKP	04 26	D = 139.9° Az = 335.9° (USCGS)
	e	04 32	PV3:1.8s 93.8nm SKPV:1.5s 195nm
	e	04 40	LmH:21s 11.3/ μm LmV:20s 9.1/ μm
	e	04 50	MLH=6.6 MLV=6.5
	ePP	07 26	The first onset e 19 04 14 is clearly developed only in the longperiod records.
	iSKP	08 06.0	ei 04 24 is a shortperiod small-amplitude precursor of PKIKP. The phase interpreted as iSKP is the greatest onset in the shortperiod records but not detectable in the longperiod records.
	e	08 26	
	ePKPS	17 40	
	eSPP	19 35	
	LmH	20 08.7	
	LmV	09	
12.	LmH	23 55.5	<u>Hokkaido/Japan</u> 41.69°N 144.22°E
	LmV	55.5	H = 23 04 58.8 h = normal MAG=4.7 (USCGS)
			D = 79.2°
13.	eP	03 02 34.5	<u>Leeward Islands</u> 17.14°N 61.89°W
	epP	02 53	H = 02 51 50.6 h = 65 km MAG=5.5
	e(PcP)	03 01	D = 66.5° Az = 41.7° (USCGS); h = 72 km
	e	03 11	PV:2.2s 82.0nm
	LmH	(27)	MPV=5.5
	LmV	(27)	
13.	eP	03 08 30.5	<u>Hokkaido/Japan</u> 41.42°N 144.26°E
	e	09 32	H = 02 56 30.2 h = 63 km MAG=4.3 (USCGS)
			D = 79.5°
13.	LmH	12 17	<u>Leeward Islands</u> 17.25°N 61.30°W
	LmV	17	H = 11 42 25.9 h = 52 km MAG=5.1 (USCGS)
			D = 66.5°

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Moxa

Day	Phase	h m s	Remarks
13.	eP	14 37 38	<u>Peru-Brazil Border Region</u> 8.28° S 74.16° W H = 14 24 40.1 h = 176 km MAG=4.8 (USCGS) D = 94.3°
13.	eP	15 07 17	<u>Crete</u> 34.30° N 23.19° E
	e	07 26	H = 15 03 03.4 h = normal MAG=4.6 (USCGS) D = 18.5°
13.	e(P)	22 56 10	
14.	iP	03 20 57.5	<u>Northern Sumatra</u> 2.01° N 99.10° E
	epP	20 31	H = 03 08 31.3 h = 181 km MAG=5.3 (USCGS) D = 86.9° h = 178 km ANUSSR gives: h = normal
15.	iP	00 20 02.0	<u>Andreanof Is./Aleutian Is.</u> 51.37° N 179.94° W H = 00 08 07.1 h = 43 km MAG=5.0 (USCGS) D = 78.1°
15.	iPg	09 00 20.0	<u>Explosion/CSSR</u> 50.02° N 13.17° E
	iSg	00 34.0	D = 1.1° Yield: 5.75 t
15.	eP	16 31 03	<u>Andreanof Is./Aleutian Is.</u> 51.25° N 176.60° W
	e	31 30	H = 16 19 07.4 h = 48 km MAG=5.0 (USCGS)
	e	31 36	D = 78.5°
	e	31 51	
15.	eP	16 58 08.5	PV:2.1s 58.5nm
16.	iP	02 12 35.0	<u>Fox Islands/Aleutian Is.</u> 51.30° N 170.44° W H = 02 00 35.9 h = normal MAG=4.7 D = 78.4° Az = 358.7° (USCGS)
16.	ePKP	06 18 08	<u>Fiji Islands Region</u> 19.54° S 176.30° W
	e	18 16	H = 05 58 30.3 h = 48 km MAG=5.0
	e	18 26	D = 148.3° Az = 350.4° (USCGS)

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Moxa

Day	Phase	h m s	Remarks
16.	eP	20 55 57	<u>Kurile Islands</u> 46.60° N 153.67° E H = 20 44 01.3 h = normal MAG=4.8 D = 77.7° Az = 336.4° (USCGS) PV:1.0s 21.8nm MPV=5.2
16.	e(Sg)	23 00 16	
	e	00 22	
16.	iP	23 28 01.0	<u>Fox Islands/Aleutian Is.</u> 52.59° N 169.46° W H = 23 16 09.1 h = normal MAG=4.9 D = 77.1° Az = 359.2° (USCGS) PV:1.1s 24.4nm MPV=5.2
17.	e	12 36 26	
17.	e(P)	14 55 14	<u>Andreanof Is./Aleutian Is.</u> 51.14° N 176.51° W H = 14 43 10.2 h = 45 km MAG=4.7 (USCGS) D = 78.2° The first motion of P must be 8 s earlier.
17.	eP	19 39 02	<u>Kurile Islands</u> 46.21° N 153.60° E H = 19 27 05.1 h = normal MAG=4.4 D = 78.1° Az = 336.4° (USCGS) ANUSSR gives: Sea of Okhotsk 49.4° N 151.6° E H = 19 27 24 h = normal MAG=4½ D = 74.6°
18.	e	03 15 19	
18.	e	09 38 03	
18.	ePKIKP	09 31 23	<u>Southern Pacific Ocean</u> 36.29° S 100.71° W
	e	50.0	H = 09 12 09.9 h = normal MAG=5.1 (USCGS)
	eSS	51 20	D = 130.6°
	e(SS)	56.1	
	eLQ	10 06.5	
	eLR	14.7	

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Day	Phase	h m s	Remarks
18.	e	14 59 17	Explosion (after Pruhonice)
	e(Sg)	15 00 35	e 00 14 e 00 26 e 00 56
18.	eP	18 12 54.5	<u>Greenland Sea</u> 73.39°N 6.84°E
	e	13 00	H = 18 07 54.0 h = normal MAG=4.6
	e	13 10	D = 22.9° Az = 172.2° (USCGS)
	e	13 15	PV:1.5s 50nm MPV=4.8
18.	eP	18 53 44	<u>Greenland Sea</u> 73.37°N 6.76°E
	e	53 45.5	H = 18 48 43.9 h = normal MAG=4.9
	i	53 51.5	D = 22.9° Az = 172.0° (USCGS)
	ePP	54 14	PV2:1.3s 51.2nm PV3:1.5s 175nm
	eS	57 50	LmH:15s 1.2/ μ m LmV:15s 1.6/ μ m
	LmH	19 03.3	MPV2=4.9 MLH=4.3 MLV=4.6
	LmV	03.3	
18.	eP	19 52 40	<u>North Atlantic Ocean</u> 24.03°N 46.29°W
	e	52 52	H = 19 43 35.2 h = normal MAG=4.7 (USCGS)
	eS	20 00(08)	D = 51.5°
	eLQ	05.3	
	eLR	07.5	
18.	e(P)	21 31 47	
18.	i(Sg)	23 00 23.5	Explosion?
	i	00 32.0	
19.	eIP	05 32 08.5	<u>Near East Coast of Honshu/Japan</u>
	epP	32 22	37.61°N 141.35°E
	e	32 26	H = 05 19 56.1 h = 67 km MAG=5.1 (USCGS)
	e	32 37	D = 81.5° h = 50 km PV:1.4s 33.3nm MPV=5.3
19.	eP	07 16 45	<u>Crete</u> 35.00°N 23.49°E
-1P		16 46.5	H = 07 12 39.7 h = 33 km MAG=5.3
	eS	20(08)	D = 17.9° Az = 334.7° (USCGS)
	eLg1(3.56)	22.0	PV2:1.5s 105nm
	eILg2(3.36)	22.6	LmH:15.5s 8.5/ μ m LmV:17s 5.7/ μ m

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Day	Phase	h m s	Remarks
cont.			
19.	LmH	07 24.1	MLH=5.1 MLV=5.0
	LmV	25.5	i 16 51.0 i 16 56.5 e 17 06 eP is a small-amplitude precursor.
19.	eP	07 43 19	<u>Near East Coast of Honshu/Japan</u>
	e	43 34.5	40.54°N 142.72°E
	e	43 40	H = 07 31 14.1 h = normal MAG=4.3
	LmH	08(20)	D = 79.6° Az = 330.8° (USCGS)
19.	eIP	07 53 48.5	<u>Burma</u> 18.40°N 95.31°E
	e(pP)	53 03	H = 07 42 28.2 h = 56 km MAG=5.4
	e(sP)	53 09	D = 72.0° Az = 318.3° (USCGS); (h = 56 km) PV:1.0s 30.4nm MPV=5.4
19.	e(Sg)	12 07 45	Probably near earthquake
	e	07 49	Vienna (VIE) gives: i(Pn) 12 05 36.0
	e	07 58	i(Sn) 06 11 i(Sg) 06 33
19.	eP	16 50 27	<u>Kodiak Island Region</u> 56.87°N 153.97°W
	ei(pP)	50 38.5	H = 16 39 03.2 h = normal MAG=4.5
	e	50 43	D = 72.2° Az = 9.6° (USCGS); (h = 43 km)
19.	eP	17 50 03	<u>North Atlantic Ridge</u> 24.25°N 46.38°W
	e	50 21	H = 17 40 58.2 h = normal MAG=4.8
	eS	57(36)	D = 51.5° Az = 43.6° (USCGS)
	LmH	18(09)	The first P onset is much smaller than the second one.
19.	eSKS	18 44 46	<u>Off Coast of Peru</u> 10.70°S 79.10°W
	eS	45 36	H = 18 20 30.0 h = 34 km MAG=4.8 (USCGS)
	ePS	47 04	D = 98.7°
	ePPS	47 46	LmH:17s 1.0/ μ m
	eSS	52.4	MLH=5.4
	eSSS	56.3	
	LmH	19 19.0	

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Day	Phase	h m s	Remarks
20.	eP	01 08 56.5	<u>North Atlantic Ridge</u> 24.15°N 46.41°W H = 00 59 51.0 h = normal MAG=4.9 D = 51.6° Az = 43.6° (USCGS)
20.	ePKP	04 40 43	<u>New Britain Region</u> 6.41°S 153.81°E H = 04 21 51.5 h = 128 km MAG=5.0 D = 125.8° Az = 331.2° (USCGS)
20.	e	08 40 29	
20.	iP	09 41 53.7	<u>Andreanof Is./Aleutian Is.</u> 51.45°N 176.55°W
	e	42 06	H = 09 29 59.1 h = 54 km MAG=5.1 (USCGS)
	e	42 43	D = 78.4°
20.	ePKIKP	17 07 28	<u>South Pacific Cordillera</u> 55.14°S 129.37°W
	ePKP2	07 56	H = 16 47 33.0 h = normal MAG=4.9 (USCGS)
	eSS	31.5	D = 156.2°
	e(SSS)	37.4	LmH:18s $1.2/\mu\text{m}$ LmV:18s $1.5/\mu\text{m}$
	LmH	18(16)	MLH=5.8 MLV=5.8
	LmV	16.2	e 07 33 e 07 46 e 36.8
20.	e(PKIKP)	19 13 29	<u>South Pacific Cordillera</u> 55.25°S 128.74°W
	e	13 33	H = 18 53 31.8 h = normal MAG=4.7
	e(PKP2)	14 02	D = 155.9° Az = 84.4° (USCGS)
	LmV	20 19	
	LmH	(21)	
20.	e	23 14 19	
20.	eP	23 44 24	<u>West Pakistan</u> 27.57°N 67.67°E H = 23 35 46.4 h = 36 km MAG=4.8 (USCGS) D = 48.0°
21.	e	00 48 57.5	
	e	49 02	
21.	eP	12 31 19	<u>Kurile Islands</u> 46.68°N 152.46°E
	eI(pP)	31 39.5	H = 12 19 27.3 h = 40 km MAG=5.6
	e	34 08.5	D = 77.3° Az = 335.7° (USCGS); (h = 76 km)
	LmH	13 07.5	

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Day	Phase	h m s	Remarks
cont.			
21.	LmV	13 08	PV:1.4s 62.0nm LmH:17s $0.6/\mu\text{m}$ LmV:18s $0.7/\mu\text{m}$ MPV=5.6 MLH=5.0 MLV=5.0
21.	i	12 48 26.5	Explosion?
21.	i	13 13 43.0	Explosion?
22.	+iP1	06 40 45.0	<u>Sea of Okhotsk</u> 48.16°N 146.68°E
	+iP2	40 48.5	H = 06 29 53.5 h = 453 km MAG=5.6
	+iPcP	40 57.0	D = 74.3° Az = 332.1° (USCGS); h = 456 km
	e	41 15	PV1:1.3s 190nm PV2:1.3s 88.5nm
	epP1	42 23	PcPV:1.3s 48.9nm pPV1:2.2s 123nm
	epP2	42 28	pPV2:2.1s 125nm SH:10s $0.9/\mu\text{m}$
	epPcP	42 43.5	MPV=5.5 MSH=5.3
	ePP	43 38	Two very clearly separated impulsive P-
	epPP	44 56	onsets, the first bigger than the second
	eIS	49 40	one. Two shocks in the same focus?
	eSS	52 35	
	eSS	54 32	
	eSa(4.50)	07 00 25	
22.	e(PP)	07 20 30	<u>South Sandwich Islands Region</u>
	e	20 43	57.94°S 25.26°W
	e	21 00	H = 07 01 11.1 h = 38 km MAG=5.6 (USCGS)
	eSS	36 10	D = 112.2°
	eSSS	40.0	LmH:17s $0.9/\mu\text{m}$ LmV:24s $2.3/\mu\text{m}$
	LmV	08 00.5	MLH=5.4 MLV=5.7
	LmH	06.5	
22.	eP	09 04 03.5	<u>Near Islands/Aleutian Is.</u> 52.10°N 172.66°E
	e	04 06	H = 08 52 18.2 h = 55 km MAG=4.9 (USCGS)
	e	04 33	D = 76.5°
	LmH	(45)	
	LmV	(45)	
22.	iPg	14 18 21.8	<u>Explosion/GDR</u> 51.37°N 12.89°E
	iSg	18 37.5	D = 1.2°

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Day	Phase	h m s	Remarks
23.	ePKIKP	02 38 33	<u>New Hebrides Islands</u> 14.91° S 166.85° E
	e(PP)	43 26	H = 02 19 13.8 h = 48 km MAG=5.6
	eSKP	44 08	D = 139.1° Az = 336.0° (USCGS)
	eSS	59 50	LmH:18s 0.75/ μ m LmV:18s 0.95/ μ m
	eSSS	03 04(50)	MLH=5.5 MLV=5.6
	LmH	47.5	e 38 36 e 38 39 e 38 41.5 e 40 49
	LmV	47.5	e 41 14 e 43 20 e 43 54 e 44 18
23.	e(Sg)	14 55 59	Near earthquake?
	e	56 08	
23.	iPKP	18 36 52.3	<u>Fiji Islands Region</u> 20.11° S 177.71° W
			H = 18 17 59.0 h = 465 km MAG=4.2
			D = 148.6° Az = 348.6° (USCGS)
24.	eP	07 05 01.5	<u>Kodiak Islands Region</u> 56.53° N 152.87° W
	e(pP)	05 08	H = 06 53 37.1 h = normal MAG=4.8
	e(sP)	05 12	D = 72.4° Az = 10.3° (USCGS);
	e(PcP)	05 18	(h = 27 km)
			e 05 28 e 05 36 e 05 43
24.	ePKIKP	07 51 50	<u>Kermadec Islands Region</u> 30.59° S 177.89° W
	e	52 23	H = 07 31 51.8 h = 11 km MAG=5.0 (USCGS)
	ePKP2	52 28	D = 158.9°
			PV2:1.5s 40nm PV3:1.2s 45.5nm
			If e 52 23 is interpreted as PKP2 and
			e 52 28 as pPKP2, than the focal depth
			would be h = 18 km (see Bath: Seismolo-
			gical Bulletin Uppsala, Kiruna, a. o.)
			but e 52 23 is 5 s earlier than the
			expected onset time for PKP2 after the
			I.-B.-travel time tables.
24.	iPg	08 00 44.5	<u>Explosion/GDR</u> 51.33° N 12.66° E
	iSg	00 58.0	D = 1.0°
24.	e(P)	12 12 44	

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Day	Phase	h m s	Remarks
24.	e	12 16 34	Explosion?
	e	16 37	
	e	16 45	
24.	eP	15 18 48	<u>Kodiak Island Region</u> 56.54° N 153.04° W
	e	19 03	H = 15 07 23.5 h = normal MAG=4.5
	e	19 16	D = 72.4° Az = 10.2° (USCGS)
24.	ePKP	17 04 54	<u>West Chile Rise</u> 38.31° S 92.05° W
	eSS	24.1	H = 16 45 47.1 h = normal MAG=4.7
	eSSS	29.0	D = 126.5° Az = 50.3° (USCGS)
	LmH	54.4	LmH:20s 0.9/ μ m LmV:20s 1.6/ μ m
	LmV	54.4	MLH=5.5 MLV=5.7
			e 04 59 e 05 14 e 05 30 e 05 48
25.	e	10 09 55	
	e	10 36	
25.	e(P)	15 10 43	
	e	10 57	
	e	11 04	
	e	11 10	
26.	LmH	02 15	
26.	LmH	03 19	<u>Northern Chile</u> (USCGS)
26.	eP	03 29 36	<u>Svalbard Region</u> 78.44° N 5.23° E
	e	29 44	H = 03 23 44.3 h = normal MAG=4.7
	e	30 06.5	D = 23.0° Az = 171.3° (USCGS)
	eS	34 20	LmH:14s 0.85/ μ m LmV:14s 0.75/ μ m
	LmH	43.2	MLH=4.5 MLV=4.5
	LmV	43.2	e 30 14 e 30 20.5
26.	eP	13 56 26.5	<u>Iran-USSR Border Region</u> 37.32° N 58.61° E
	e	57 03	H = 13 49 30.3 h = 29 km MAG=4.9
			D = 35.5° Az = 306.7° (USCGS)

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Day	Phase	h m s	Remarks
26.	eP	17 17 04	<u>Hokkaido/Japan Region</u> 42.67°N 144.47°E H = 17 05 08.0 h = 54 km MAG=3.9 D = 78.4° Az = 331.5° (USCGS)
27.	eP	04 21 43	<u>Southern Alaska</u> 60.13°N 146.22°W
	i	21 46.0	H = 04 10 42.8 h = 28 km MAG=4.6 (USCGS) D = 68.1° PV2:2.0s 74.0nm MPV2=5.5 The first onset is about three times smaller than the second one.
27.	eP	04 26 32	<u>Gulf of Alaska</u> 59.99°N 146.37°W
	e	26 35	H = 04 15 30.8 h = 11 km MAG=4.3 (USCGS) D = 68.3° PV2:1.2s 27.2nm MPV2=5.2 The first onset is about three times smaller than the second one.
27.	eIP	12 59 51.5	<u>Kurile Islands</u> 48.12°N 155.05°E
	LmH	13(30)	H = 12 48 01.5 h = 28 km MAG=4.5 D = 76.7° Az = 337.1° (USCGS) PV:1.9s 36.6nm MPV=5.2
27.	-IP	20 18 52.0	<u>Svalbard Region</u> 78.52°N 6.43°E
	ipP	19 00.0	H = 20 13 01.5 h = normal MAG=5.6 (USCGS)
	e(PP)	19 37	D = 27.5° h = 45 km
	eS	23 36	PV:1.4s 105nm SH:14s 1.8/ μm
	LmH	32.1	LmH:14.5s 2.0/ μm LmV:14s 2.4/ μm
	LmV	35.8	MPV=5.4 MSH=5.5 MLH=4.8 MLV=5.0 1 19 14.0 e 19 25 e 23(00)
28.	eP	07 45 39.5	<u>South of Panama</u> 6.62°N 82.66°W
	e	45 42	H = 07 32 53.4 h = normal MAG=5.5
	eSKS	56 13	D = 87.6° Az = 39.5° (USCGS)
	ePS	57 24	PV2:1.8s 87.4nm
	eSS	08 02 12	MPV2=5.6
	eSSS	05 45	1 45 49.0 e 56 30 e 58 46

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Day	Phase	h m s	Remarks
cont.			
28.	eLQ	08 09.8	
	eLR	13.4	
	LmH	(15)	
	LmV	(15)	
28.	e	10 28 17	
29.	LmH	05 37	<u>North Atlantic Ridge</u> (USCGS)
29.	LmH	06 56.8	
	LmV	59.8	
29.	ePKP	08 19 02.5	<u>Fiji Islands Region</u> 15.88°S 176.76°W
	e	19 06	H = 08 00 09.6 h = 370 km MAG=4.6 (USCGS) D = 144.5° PV:1.5s 50.0nm
29.	eP	09 34 23.5	<u>South Indian Ocean</u> 9.81°S 90.57°E
			H = 09 21 22.8 h = normal
			D = 90.6° Az = 321.3° (USCGS)
29.	LmH	18 00	<u>Japan</u> (USCGS)
29.	e	22 36 32.5	<u>New Hebrides Islands</u> 14.67°S 167.43°E
	ePKIKP	36 39	H = 22 17 29.9 h = 161 km MAG=5.2 (USCGS)
	e(PP)	39 30	D = 139.0°
	eSKP	40 14	ANUSSR gives: 14.8°S 166.7°E
	eSS	58.2	H = 22 17 22 h = 90 km
	eSSS	23 03.3	D = 139.0°
	LmH	(42)	e 36 53 e 39 36 e 39 56 e 40 55
	LmV	(42)	e 22 36 32.5 is a small-amplitude precursor.
30.	e	00 40 15	
30.	eP	13 05 41	<u>Greenland Sea</u> 73.38°N 7.03°E
	e	05 47	H = 13 00 39.9 h = normal MAG=4.8
			D = 22.9° Az = 172.5° (USCGS)
			PV:1.5s 90.0nm MPV=5.1

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Day	Phase	h m s	Remarks
30.	e	21 00 16	
	e	00 21	

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Day	Phase	h m s	Remarks
1.	+IP	04 40 22.0	<u>Southern Alaska</u> 60.06°N 146.44°W
	+ipP	40 25.5	H = 04 29 23.3 h = 38 km MAG=4.6 (USCGS)
	e	40 28	D = 68.5° h = 14 km
	ePcP	40 45	PV1:1.2s 50.0nm PV2:1.4s 57.1nm
	epPcP	40 49	MPV=5.6
			Since surface waves from this quake are not detectable in our records, an alternative interpretation seems to be possible: IP1 40 22.0 ip2 40 25.5 epP1 40 45 epP2 40 49 with a focal depth of h = 95 km.
1.	+eIPKHP	05 16 04	<u>New Hebrides Islands</u> 14.03°S 167.10°E
	+eIPKIKP	16 08	H = 04 56 58.2 h = 132 km MAG=6.1
	-i	16 10.5	D = 138.4° Az = 336.5° (USCGS); h = 134 km
	+ipPKIKP	16 44	PV2:6.5s 3.8/ μm PV3:2.0s 364nm
	iPP	19 01.5	SKP1V:8s 5.0/ μm (SKP2)V:2.2s 636nm
	1SKP1	19 29	PKS1H:11s 3.8/ μm XV:2.8s 1070nm
	e1(SKP2)	19 38	LmH:18s 4.1/ μm LmV:20s 5.1/ μm
	ePKS1	19 40	MLH=6.3 MLV=6.3
	1X	19 47	PKHP is a small-amplitude precursor.
	LmV	06 20.3	e1(SKP2) and the unidentified onset 1X are very great, but registered only in the shortperiod vertical instruments.
	LmH	24.4	SKP1 is the greatest body wave onset in the longperiod vertical seismograph but not detectable in the shortperiod components. SKP1 and SKP2 would refer to different branches of the SKP travel-time curve.
1.	eIP	19 08 02	<u>Hokkaido/Japan Region</u> 41.64°N 139.57°E
	i	08 10.0	H = 18 56 23.1 h = 173 km MAG=5.4 (USCGS)
	ipP	08 47.0	D = 77.3° h = 187 km
	i	10 46.0	
2.	iP	03 15 11	<u>Southern Iran</u> 28.23°N 53.19°E
	e	15 19	H = 03 07 54.0 h = 40 km MAG=5.2
	e	15 42	D = 38.5° Az = 317.2° (USCGS)

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Day	Phase	h m s	Remarks
2.	LmH	10(28)	<u>Halmahera</u> (USCGS)
3.	eSn	07 48 18	<u>CSSR-Poland Border Region</u> $49^{\circ}2'N$ $18^{\circ}4'E$
	iSg	48 47.0	H = 07 46 10 (BCIS) D = 4.8°
3.	iPKIKP	14 32 17.5	<u>South of Fiji Islands</u> $24.67^{\circ}S$ $179.86^{\circ}E$
	iPKHPK	32 24.5	H = 14 13 25.2 h = 492 km MAG=5.1
	i(PKP2)	32 38.5	D = 152.5° Az = 343.7° (USCGS)
	e	33 15	PV1:1.3s 32.6nm PV2:1.3s 51.1nm
	epPKP	34 26	PV3:1.7s 83.3nm
	eSKP	35 20	
4.	ePKP	18 21(48)	<u>Tonga Islands</u> $15.34^{\circ}S$ $173.18^{\circ}W$
	e	22 41	H = 18 02 08.0 h = 21 km MAG=4.9 (USCGS) D = 144.6°
5.	e	07 25 50	
	e	26 42	
6.	eP	07 30 25	<u>Kurile Islands Region</u> $50.05^{\circ}N$ $159.81^{\circ}E$
			H = 07 18 39.9 h = 27 km MAG=5.4 (USCGS)
			D = 76.0°
6.	ePKP	11 27 05	<u>Tonga Islands</u> $18.23^{\circ}S$ $175.10^{\circ}W$
			H = 11 07 50.2 h = 244 km MAG=4.5
			D = 147.2° Az = 352.1° (USCGS)
6.	e	16 59 16	
	e	17 00 25	
7.	-eIP1	17 29 46	<u>Kurile Islands Region</u> $44.26^{\circ}N$ $151.67^{\circ}E$
	eIP2	29 49	H = 17 17 42.0 h = 26 km MAG=5.8 (USCGS)
	i(pP)	29 58.5	D = 79.5° (h = 50 km)
	i(sP)	30 04.5	PV1:1.4s 73.8nm PV2:1.4s 61.9nm
	IX	30 07.5	XV:1.2s 154nm
	LmH	18 09.8	LmH:17.5s 1.7/ μ m LmV:16s 1.75/ μ m
	LmV	09.8	MPV1=5.6 MLH=5.5 MLV=5.5
			Multiple P-phases. The unambiguous interpretation as deep phases or distinct

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Day	Phase	h m s	Remarks
cont.			
7.			shocks in the same focus can not be decided with our data alone. The unidentified phase IX is the greatest one in the short-period components.
8.	eP	00 05 32	<u>Mona Passage</u> $18.31^{\circ}N$ $68.51^{\circ}W$
	i	06 34	H = 23 54 35.9 h = 141 km MAG=5.0 (USCGS) D = 69.9°
8.	eP	02 15 46	<u>West Pakistan</u> $29.28^{\circ}N$ $69.88^{\circ}E$
			H = 02 07 07.4 h = 37 km MAG=5.1 (USCGS) D = 48.1°
8.	e	04 44(35)	Explosion?
	e	44 38	
	i	44 41	
8.	ePn	11 33 39	<u>Yugoslavia</u> $42.15^{\circ}N$ $18.89^{\circ}E$
	i	33 43.0	H = 11 31 18.0 h = 24 km MAG=5.0
	iSn	35 33.0	D = 9.9° Az = 331.9° (USCGS)
	e	36 25	LmH:9s 3.7/ μ m
	i	36 35	MLH=4.6
	i(Sg)	36 41.0	
	LmH	37.1	
8.	e	18 45 17	Near earthquake.
	e	45 31	
	e	45 36	
	e	46 07	
8.	eP	23 29 08	<u>Southern Alaska</u> $60.10^{\circ}N$ $146.49^{\circ}W$
	i	29 11.6	H = 23 18 09.4 h = 35 km MAG=4.5
			D = 68.2° Az = 14.8° (USCGS)
9.	ePg	12 51 40	Explosion/GDR
	iSg	51 55.5	D = 1.2°
9.	iPg	14 31 03.5	Explosion/GDR
	eSg	31 18	D = 1.1°

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Day	Phase	h m s	Remarks
9.	-eIP	16 55 51	<u>Near Islands/Aleutian Is.</u> 51.66°N 174.61°E
	ei	55 55	H = 16 43 57.7 h = 21 km MAG=5.2
	e	56 07	D = 77.1° Az = 349.0° (USCGS)
			PV:1.5s 35.0nm
			MPV=5.3
10.	+IP	13 19 14.0	<u>Guatemala</u> 14.32°N 91.99°W
	e	19 18.5	H = 13 06 32.6 h = 70 km MAG=5.6 (USCGS)
	IS	29 42	D = 87.5°
			PV:16s 5.1/ μm
	tSS	35 40	LmH:17s 16.2/ μm LmV:17s 22.5/ μm
	eSSS	39 24	MPV=6.5 MLH=6.5 MLV=6.6
	LmV	14 03.7	e 19 43 e 29 18 e 35 10 e 39 20
	LmH	03.8	e 42 10
10.	-eP	17 12 42	<u>Turkey</u> 41.05°N 33.55°E
	eS	16 05	H = 17 08 32.2 h = 13 km MAG=4.9
	i(SS)	16 20	D = 18.0° Az = 309.6° (USCGS)
	eLg(3.39)	18 22	PV:2.5s 308nm SH:12s 2.8/ μm
	eL(3.20)	18 58	LmH:13s 6.0/ μm LmV:12s 4.0/ μm
	LmH	21.1	MLH=5.1 MLV=5.1
	LmV	22.6	e 16 10 e 17 50
			Clearly developed higher mode surface waves.
10.	ePP	18 28 22	<u>Near North Coast of New Guinea</u>
	ePS	38 05	3.63°S 145.39°E
	eSS	44 50	H = 18 08 14.4 h = normal MAG=5.7 (USCGS)
	eSSS	49	D = 119.3°
	LmH	19 20.9	LmH:18s 6.1/ μm LmV:18s 8.5/ μm
	LmV	20.9	MLH=6.4 MLV=6.6
			e 28 34 e 39 52
11.	eP	02 18 56.5	<u>Unimak Island</u> 53.6°N 163.6°W
			H = 02 07 12.1 h = 47 km MAG=4.2 (USCGS)
			D = 76.2°
11.	e	10 45 38	
11.	e	13 35 06	

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Day	Phase	h m s	Remarks
11.	e	14 35 13	
	e	36 14	
11.	eP	19 59(30)	<u>Hokkaido/Japan Region</u> 42.89°N 144.59°E
	epP	59 44.5	H = 19 47 34.2 h = 57 km MAG=4.8 (USCGS)
			D = 78.2° h = 55 km
11.	ePP	20 10 34	<u>Mariana Islands</u> 13.42°N 145.85°E
	eSKS	16 48	H = 19 52 09.4 h = 59 km MAG=5.4 (USCGS)
	eS	17(55)	D = 104.8°
	ePS	18 48	LmH:17s 1.6/ μm LmV:18s 1.2/ μm
	eSSS	29	MLH=5.6 MLV=5.5
	LmH	59	e 10 40 e 19 30
	LmV	59	
11.	eP	20 12 32	<u>Andreanof Is./Aleutian Is.</u> 52.94°N 176.13°W
	e	13 30	H = 20 01 03.5 h = 216 km MAG=5.2
			D = 76.6° Az = 354.9° (USCGS)
11.	ePP	20 26 47	<u>Mariana Islands</u> 13.4°N 146.0°E
	LmV	21 14.5	H = 20 08 22.3 h = 50 km MAG=5.6 (USCGS)
	LmH	15.3	D = 105.0°
			PPV:2.2s 63.8nm
			LmH:16s 1.8/ μm LmV:18s 1.6/ μm
			MPPV=5.9 MLH=5.7 MLV=5.6
12.	iPg	07 37 49.0	<u>Switzerland</u> 46.4°N 7.4°E
	e1(Sn)	38 18	H = 07 36 13 (BCIS)
	iSb	38 42.0	D = 5.1°
	iSg	38 54.2	1 39 09.5
12.	e(P)	12 18 36	PV:2.2s 72.6nm
	e	18 50	
12.	LmH	13(22)	LmV:16s 0.7/ μm
	LmV	23	
13.	iSg	09 11 16.0	<u>Yugoslavia</u> 46.0°N 16.0°E
	e	11 25	H = 09 08 17
			D = 5.5°

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Day	Phase	h m s	Remarks
13.	-IP	12 29 00.5	<u>Afghanistan-USSR Border Region</u>
	e	29 18	37.35°N 71.95°E
	ipP	29 28.5	H = 12 21 02.3 h = 126 km MAG=5.3
	eiPcP	30 45	D = 44.2° Az = 307.5° (USCGS); h = 128 km
	e	30 54	PV:1.5s 100nm
	ipPcP	31 17.2	MPV=5.3
14.	eiP	03 55 26.5	<u>Andreanof Is./Aleutian Is.</u> 52.86°N 177.62°W
	e	55 47	H = 03 44 01.9 h = 243 km MAG=5.3
	eipP	56 30.5	D = 76.8° h = 275 km
	e	57 12	PV1:1.4s 50.0nm pPV:1.2s 41.0nm MPV=5.0 ANUSSR gives: 51.9°N 177.0°W H = 03 43 49 h = 185 km D = 77.5°
14.	eP	06 52 27	<u>North Atlantic Ridge</u> 11.03°N 43.09°W
	e	52 35	H = 06 42 24.3 h = normal MAG=4.7 (USCGS)
	eS	07 00(40)	D = 59.5°
	eSS	04.5	LmH:19s 0.55/μm LmV:19s 0.7/μm
	LmH	16	MLH=4.7 MLV=4.8
	LmV	16	e 52 40 e 52 45.5
14.	e	08 45 22	
	e	45 28	
14.	eP	11 16 39	<u>Honshu/Japan</u> 36.19°N 139.57°E
	epP	16 53	H = 11 04 25.3 h = 72 km MAG=4.6 D = 82.3° h = 52 km
14.	ePKP2	11 35 55	<u>Kermadec Islands</u> 27.43°S 179.00°W
			H = 11 16 07.6 h = 296 km MAG=4.5 (USCGS) D = 155.3°
14.	eP	14 52 34	<u>Rumania</u> 45.59°N 26.36°E
	e	52 37	H = 14 49 59.8 h = 158 km MAG=4.8 (USCGS)
	e	52 48	D = 11.0°
	e	53 07.5	PV:1.1s 35.4nm
	eS	54 36	e 53 11 e 53 23

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Day	Phase	h m s	Remarks
14.	ePKIKP	21 26 34.5	<u>New Guinea</u> 4.83°S 143.94°E
	e	26 37	H = 21 07 52.1 h = 74 km MAG=6.0 (USCGS)
	ePP	28 00	D = 119.2° h = 60 km
	epPP	28 16	PV1:0.9s 26.1nm PV2:1.2s 91.0nm
	eSKKS	34 48	LmH:22s 8.1/μm LmV:20s 8.8/μm
	eS	35 46	MLH=6.4 MLV=6.4
	ePKKP	36 52	e 26 56 e 27 02 e 40 56
	epPKKP	37 09	S is the diffracted S-wave around the core.
	ePS	37 28	
	ePPS	39 08	
	eSKKP	40 39.5	
	eSS	44 20	
	eSPSPS	44 50	
	LmH	22 19.0	
	LmV	19.3	
15.	+IP	02 19 02.3	<u>Burma</u> 21.66°N 94.48°E
	ipP	19 25.2	H = 02 08 03.0 h = 81 km MAG=5.7 (USCGS)
	e	19 50	D = 69.0° h = 96 km
	e	20 17	PV:1.3s 65nm pPV:1.6s 47.4nm
	LmH	51.5	MPV=5.4
	LmV	55	
16.	ePn	05 03 57	<u>Rock burst/CSSR</u> 50.17°N 14.09°E
	ePg	04 02.5	H = 06 03 25.0 (BCIS)
	eSn	04 15	D = 1.7°
	eSg	04 19	e 04 03 e 04 17.5
16.	i(P)	09 39 24.2	PV:0.7s 13.0nm
16.	e	13 01 23	Probably explosion.
	eSg	01 39	
16.	+eP	21 01 46	<u>Nepal</u> 29.63°N 81.03°E
	i	01 49.0	H = 20 52 13.5 h = 9 km MAG=5.9 (USCGS)
	ePP	03 48	D = 54.8°
	eS	09 26	PV1:0.7s 21.3nm PV2:1.9s 200nm
	LmH	27.7	PV:9s 2.2/μm PPV:8s 1.2/μm
	LmV	27.7	LmH:13s 6.8/μm LmV:13s 10/μm
			MPV1=5.4 MPV2=5.9 MPV=6.3 MPPV=6.1
			MLH=5.9 MLV=6.1

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Day	Phase	h m s	Remarks
17.	eP	06 04 17.5	<u>Jan Mayen Island</u> 70.73°N 13.95°W
	e	04 21.5	H = 05 59 10.2 h = 27 km MAG=5.0
	LmH	15.3	D = 23.4° Az = 136.1° (USCGS)
	LmV	16.7	PV:2.0s 133nm LmH:14s 1.0/ μm MPV=5.1 MLH=4.4
17.	e	09 34 48	
17.	e(P)	16 51 40	
17.	e(Sg)	18 54 12	Probably near earthquake.
	e	54 34	
	e	54 48	
18.	LmH	01 10	LmV:20s 1.0/ μm
	LmV	12	
18.	eSg	01 46 45.5	<u>Austria</u> 47.8°N 16.3°E
	e	46 49.5	H = 01 44.5 (BCIS)
	e	46 53	D = 4.1°
18.	+iP	05 05 44.0	<u>Eastern Kazakh SSR</u> 49.93°N 77.73°E
	i	05 45	H = 04 57 57.8 h = 0 km MAG=5.9
	e	05 50	D = 41.0° Az = 297.4° (USCGS)
	ePn	07 16	PV:0.7s 166nm
	ePP	07 19	MPV=6.1 Underground explosion.
18.	eP	07 46 40.5	<u>Dodecanese Islands</u> 35.12°N 27.13°E
	e	46 45	H = 07 42 18.8 h = normal MAG=4.7 (USCGS)
	e	46 51	D = 19.0°
	e	46 58	Successively increasing P-amplitudes.
	LmH	(55)	
19.	LmH	01(03)	<u>Near Coast of Peru</u> 10.76°S 78.97°W
	LmV	03.5	H = 23 59 30.8 h = 19 km MAG=4.7 (USCGS) D = 98.6° LmV:18s 1.0/ μm MLV=5.4

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Day	Phase	h m s	Remarks
19.	e(P)	07 00 55	
	e	01 12.5	
19.	e(P)	10 04 07	
	e	05 36	
20.	eP	00 36 46.5	<u>Alaska</u> 66.68°N 148.74°W
	ePcP	37 25.5	H = 00 26 27.8 h = normal MAG=4.8 D = 62.1° Az = 14.0° (USCGS) PV:1.2s 15.4nm MPV=5.0
20.	-eP	01 08 12.5	<u>Alaska</u> 66.69°N 148.72°W
			H = 00 57 53.1 h = normal MAG=4.9 D = 62.0° Az = 14.0° (USCGS) PV:1.8s 51.0nm MPV=5.4
20.	LmH	03(25)	<u>Off Coast of Jalisco/Mexico</u>
	LmV	25.5	18.68°N 106.51°W H = 02 27 03.4 h = normal MAG=4.4 (USCGS) D = 92.2° LmV:15s 0.8/ μm MLV=5.3
20.	e	09 50(20)	Probably near earthquake.
	e	50 26	
	e	50 35	
	eSg	51 25	
	LmH	54	
	LmV	54	
20.	e	11 06 02	Explosion?
20.	-eP	12 39 42.5	<u>Santiago del Estero Prov./Argentina</u>
	ePP	43 55.5	26.13°S 63.21°W
	e(pPP)	45 49	H = 12 26 55.0 h = 589 km MAG=5.7 (USCGS)
	eSKS	49 26	D = 100.5°
	eS	50 25	PV:2.0s 126nm PPV:2.6s 680nm
	eSP	51 50	MPV=6.0 MPPV=6.5

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Day	Phase	h m s	Remarks
cont.			
20.	esSKS	12 53(20)	e 39 44 e 43 48 e 45 35 e 45 42
	esS	54(20)	ANUSSR gives (with data only from stations
	isSP	55 50	in D > 60°): Argentina 25.3°S 63.4°W
	eSS	57(35)	H = 12 25 53 h = normal MAG=5½
	eSKKP	58 27	Our interpretation completely coincides
	esSS	13 01	with the depth calculation of the USCGS.
	e(SSS)	02.0	
	esSSS	04.7	
	iSa(4.55)	07 57	
20.	e	14 18 23.5	Explosion
	e	18 32.5	
	e	18 41	
	e	18 49.5	
20.	+IP	15 42 17.2	<u>Nevada</u>
	e	42 20.5	H = 15 30 00
	e	42 23.5	D = 81.2°
	ePP	45 22	PV1:2.1s 409nm PV2:1.7s 161nm
	LmV	16 19.9	PPV:1.7s 155nm
	LmH	20.2	LmH:16s 2.1/μm LmV:17.5s 2.9/μm MPV=6.2 MPPV=6.0 MLH=5.6 MLV=5.7 Underground nuclear explosion.
			The PP onset is approximately 4 s earlier than expected from the travel time tables for surface focus. Clearly developed Love- and Rayleighwaves.
20.	e	16 38 30	<u>Banda Sea</u> 7.15°S 126.06°E
	ePP	38 38	H = 16 20 05.8 h = 441 km MAG=5.4 (USCGS) D = 110.9° PPV:1.6s 31.6nm MPPV=5.3 ANUSSR gives: Banda Sea 6.1°S 125.7°E H = 16 20 24 h = 584 km
20.	eP	18 52 51.5	<u>Luzon/Philippine Is.</u> 14.29°N 122.06°E
	e	52 54	H = 18 39 40.3 h = 37 km MAG=5.4
	e	53 01.5	D = 91.5° Az = 323.4° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
20.	ePP	18 56 25	PV1:1.8s 37.6nm PV2:1.8s 65.6nm
	esKS	19 03 20	PPV:2.5s 77nm
	eSKKS	03 38	LmH:18s 4.1/μm LmV:16s 4.2/μm
	es	03 55	MPV1=5.4 MPV2=5.6 MPPV=5.7
	eSS	09 50	MLH=6.0 MLV=6.0
	LmH	34.6	e 53 07.5 e 53 15 e 53 28 e 53 50
	LmV	36.6	e 56 44 Multiple P-onsets.
21.	eSg	02 18 30	Explosion?
21.	eP	05 41 59	<u>Off East Coast of Kamchatka</u> 52.09°N 159.53°E H = 05 30 23.0 h = normal MAG=4.2 (USCGS) D = 74.1°
21.	-1PKIKP	09 11 08.5	<u>New Hebrides Islands</u> 19.96°S 169.71°E
	+1pPKHKP	11 09.5	H = 08 52 00.2 h = 245 km MAG=5.6 (USCGS)
	i	11 20.5	D = 144.9° (h = 60 km)
	-1(pPKHKP)	11 26.5	PV2:1.8s 2690nm
	ePP	14 24	1 11 26.5 e 11 40 e 20 50 e 29.5
	eSKSP	24 14	ANUSSR gives: 19.9°S 170.3°E
	eSPP	26(50)	H = 08 51 42 h = 100 km
	eSS	33(14)	D = 145.0°
	LmH	10(10)	
21.	e	12 35 03	Explosion
	e(Sg)	35 13	
21.	e	13 49 55.5	Near earthquake.
	e(Sg)	50 03	
	e	50 22	
21.	1P	22 20 30.0	<u>Nepal-India Border Region</u> 29.36°N 80.97°E
	e	20 37	H = 22 10 58.8 h = 31 km MAG=5.4 D = 55.1° Az = 313.4° (USCGS)

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Day	Phase	h m s	Remarks
22.	e	03 25 19	
	e	25 24	
	e	25 29	
22.	e	04 30 28	Near earthquake?
	e(Sg)	30 34	
	i	30 52.5	
22.	e	10 02 03.5	Near earthquake?
	ei	02 28	
	e	02 47.5	
22.	e	13 45 20	
22.	i	15 07 18.0	
22.	eP	17 38 28.5	<u>Kurile Islands</u> 43.87°N 147.20°E H = 17 26 31.5 h = 38 km MAG=4.5 D = 78.2° Az = 332.9° (USCGS)
22.	eP	19 35 49	<u>Kurile Islands</u> 48.63°N 154.34°E H = 19 24 06.5 h = 77 km MAG=5.2 (USCGS) D = 76.0°
23.	eIPKP	01 29 53	<u>Fiji Islands Region</u> 17.87°S 178.65°W
	ei	29 55.5	H = 01 11 15.6 h = 575 km MAG=5.0 (USCGS) D = 146.5°
23.	e(P)	10 00 51	
23.	e(P)	10 52 03	
23.	iPg	12 19 13	<u>Explosion/GDR</u>
	iSg	19 27.5	D = 1.1°
23.	i(Sg)	13 37 42	Near earthquake.
	e	37 44	

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Day	Phase	h m s	Remarks
23.	ePKIKP	16 09 14	<u>East New Guinea Region</u> 7.13°S 148.27°E
	-i	09 15.5	H = 15 50 20.4 h = 43 km MAG=6.4
	+ipPKIKP	09 35.5	D = 123.7° Az = 328.3° (USCGS); h = 75 km
	ePP	10 56	PV1:1.4s 47.6nm PV2:2.4s 454nm
	iSKKS	17 48	PV3:2.2s 318nm PPV:11s 3.3/ μm
	ePKKP	19 04	LmH:22s 24/ μm LmV:23s 28/ μm
	e(pPKKP)	19 28	MPPV=6.3 MLH=6.8 MLV=6.8
	iSP	20 50	e 09 23.5 1 11 24 e 19 16 e 22 05
	iSPP	22 20	e 23 17
	eSKKP	23 03	ANUSSR gives: 5.6°S 148.0°E
	iSS	27 46	H = 15 51 08 h = 418 km
	eISSS	32.5	D = 122.3°
	LmV	17 03.2	
	LmH	04.0	
24.	eP	00 07 34	<u>Near East Coast of Kamchatka</u> 54.54°N 162.17°E H = 23 56 09.0 h = normal MAG=4.6 (USCGS) D = 72.2°
24.	eISn	07 15 49	<u>Alps</u> $46\frac{1}{2}^{\circ}\text{N}$ $13\frac{1}{2}^{\circ}\text{E}$
	ei	16 12	H = 07 13 58 (BCIS)
	iSg	16 13.5	D = 4.4°
24.	eSn	21 08 11	<u>Yugoslavia</u> 46.1°N 14.8°E
	e(Sb)	08 30.5	H = 21 06 00 (BCIS)
	eSg	08 42	D = 5.0°
24.	-eP	22 39 55.5	<u>Southern Alaska</u> 59.92°N 153.43°W
	e	40 08.5	H = 22 28 59.6 h = 113 km MAG=5.1
	epP	40 22	D = 69.1° Az = 10.1° (USCGS); h = 105 km
	e	40 29	PV:1.8s 62.5nm
			MPV=5.2
25.	eP	05 51 28	<u>Arabian Sea</u> 14.14°N 53.79°E
	e	51 36	H = 05 42 44.5 h = normal MAG=5.2 (USCGS)
	e	54 14	D = 48.9°
			ANUSSR gives: Gulf of Persia 27.4°N 52.4°E
			H = 05 44 26 h = normal MAG=4 $\frac{1}{2}$
			D = 40.9° Our P-onset coincides not
			with the ANUSSR epicenter calculation. 271

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Day	Phase	h m s	Remarks
25.	eP	11 59 24	<u>North Atlantic Ocean</u> 37.37°N 16.90°W
	e	59 34	H = 11 54 08.6 h = normal MAG=4.6
	e	59 39.5	D = 24.2° Az = 47.7° (USCGS)
	e	59 43	PV:1.3s 27.8nm
	e	59 49	MPV=4.7
	e	12 00 18.5	
25.	eP	19 56 09	<u>Eastern Mediterranean Sea</u> 35.09°N 28.01°E
	e	56 16.5	H = 19 51 41.2 h = 46 km MAG=4.6 (USCGS)
			D = 16.6°
25.	eP	23 15 12	<u>Rat Islands/Aleutian Is.</u> 51.80°N 176.09°E
	e	15 23	H = 23 03 22.8 h = 47 km MAG=4.8 (USCGS)
			D = 77.4°
26.	eIP	01 35 54	<u>Hindu Kush Region</u> 35.87°N 69.95°E
			H = 01 28 04.3 h = 180 km MAG=5.0
			D = 43.8° Az = 308.5° (USCGS)
			ANUSSR gives: h = 134 km
26.	eP	04 26(11)	<u>Turkey</u> 38.74°N 40.94°E
	e	26 16	H = 04 21 02.4 h = 55 km MAG=4.8 (USCGS)
	e	26 42	D = 23.9°
	e(S)	30(32)	LmH:16s 1.1/ μm
	LmH	36	MLH=4.4
	LmV	38.5	e 26 46
26.	e	13 55 49.5	Near earthquake?
	e	55 59	
	e	56 10.5	
	e	56 20.5	
27.	+iP	01 34 32.0	<u>Honshu/Japan</u> 37.14°N 140.99°E
	ePcP	34 38	H = 01 22 17.3 h = 60 km MAG=5.5 (USCGS)
	epP	34 50	D = 82.0° h = 70 km
	e	34 59	PV:1.3s 55.5nm P _c PV:1.2s 20.5nm
	e	35 10	pPV:1.4s 39.4nm
	e(PP)	37 47	MPV=5.5
	e	45 08	e 34 46.5 e 35 22.5 e 36 15 e 37 29

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Day	Phase	h m s	Remarks
cont.			
27.	LmH	02 15.2	
	LmV	15.2	
27.	ePKHP	12 10 04	<u>South of Fiji Islands</u> 24.3°S 179.8°E
	e	10 16	H = 11 51 07.7 h = 520 km MAG=4.7 (USCGS)
			D = 152.2°
27.	e(P)	14 08 10	<u>Greenland Sea</u> 78.46°N 3.32°E
	e	08 20	H = 14 02 25.1 h = normal MAG=4.6 (USCGS)
			D = 28.0°
27.	eP	21 34 52	<u>El Salvador</u> 13.18°N 88.84°W
	e(pP)	35 17.5	H = 21 22 14.8 h = 66 km MAG=5.5 (USCGS)
	eSKS	45 10	D = 86.5° (h = 100 km)
	LmH	22 13	PV1:1.4s 18nm PV2:1.2s 10nm
	LmV	13	MPV=5.1
27.	ePKP	21 45 55	<u>Tonga Islands</u> 21.33°S 175.58°W
	LmH	22 50	H = 21 26 06.5 h = 14 km MAG=5.0
	LmV	50	D = 150.2° Az = 350.8° (USCGS)
			PKP has abnormal long periode of approximately 4 s in the shortperiod vertical seismograph.
28.	+iP	08 32 10	<u>Near Coast of Northern Chile</u>
	+ipP	32 28	25.52°S 70.68°W
	isP	32 36	H = 08 18 07.4 h = 47 km MAG=6.9 (USCGS)
	eI	35 45	D = 104.7° h = 65 km
	-IPP	36 24	PV:13s 7.8/ μm PPV:10.4s 12.5/ μm
	-ipPP	36 40	PPH:10.4s 4.6/ μm
	isPP	36 48	LmH:20s 315/ μm LmV:20s 645/ μm
	eSKS	42 52	MPPV=7.3 MLH=7.9 MLV=8.2
	e(S)	43 54	The epicentral distance calculated from our PP-P and PKKP-P travel time differences is approximately 102° only. eI 35 45
	I	45 40	is a strong unidentified phase 3 m 35 s after P. Båth found in the registrations of Swedish seismic stations also a clear unidentified phase, on average 3 m 28 s
	I(PPS)	46 06	
	IPKKP1	48 13.5	
	IPKKP2	48 18.5	
	e(PKPPKP)	56 12	
	LmH	09 18.8	

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Day	Phase	h m s	Remarks
cont.			
28.	LmV	09 18.9	after P. He thinks that this is possibly another shock in the same location.
29.	LmH	02 45	<u>Near Coast of Northern Chile</u> 25.70°S 70.72°W H = 01 48 28.9 h = normal MAG=5.4 (USCGS) D = 104.8° LmH:24s 0.5/ μ m MLH=5.0
29.	eP	06 32 39	<u>Rumania</u> 45.59°N 26.52°E H = 06 30 01.3 h = 123 km MAG=4.4 (USCGS) D = 11.2° PV:1.6s 19nm
29.	eP ei	07 45 50 45 53.5	<u>Eastern Mediterranean Sea</u> 35.94°N 30.49°E H = 07 41 19.3 h = 63 km MAG=4.6 D = 20.0° Az = 323.1° (USCGS)
29.	eSS LmV LmH	12 36 12 13 19 20	<u>Easter Island Cordillera</u> 32.60°S 111.81°W H = 11 56 23.0 h = normal MAG=4.9 (USCGS) D = 135.1° LmH:18s 0.6/ μ m LmV:18s 1.1/ μ m MLH=5.4 MLV=5.6
29.	ei	13 19 23.5	
29.	eP ei	21 43 51.0 43 58.5	<u>West Pakistan</u> 29.86°N 68.27°E H = 21 35 20.2 h = 14 km MAG=4.6 (USCGS) D = 46.8°
29.	ePKP eISS eILQ LmH LmV	22 35 37 56 10 23 11 48 34 38.8	<u>Easter Island Cordillera</u> 32.79°S 111.68°W H = 22 16 22.7 h = normal MAG=5.4 (USCGS) D = 135.2° LmH:18s 1.0/ μ m LmV:17s 2.1/ μ m MLH=5.7 MLV=5.9

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Day	Phase	h m s	Remarks
30.	LmV	00 19	<u>Scotia Sea</u> 60.58°S 50.41°W
	LmH	20	H = 23 16 20.0 h = normal MAG=5.4 (USCGS) D = 121.5° LmH:18s 0.6/ μ m LmV:18s 1.0/ μ m MLH=5.3 MLV=5.5
30.	ePKP -i ei	01 18 52 18 54.5 18 56	<u>Fiji Islands</u> 17.83°S 178.90°E H = 01 00 25.4 h = 658 km MAG=5.0 D = 145.7° Az = 345.6° (USCGS) PV2:1.6s 60.5nm PV3:1.3s 83.2nm
30.	e	08 26 46.5	
30.	e	10 14 27 14 28.5	Explosion?
30.	e	12 30 18	Near earthquake.
	e	30 20.5	
	i	30 23.0	
	i	30 25.5	
	e	30 29	
	e	30 33	
31.	e(P)	00 39 21	<u>Lake Baikal Region</u> 55.5°N 107.6°E
	e	39 24	H = 00 29 31 h = normal MAG=4 $\frac{3}{4}$ -5
	e	40 09	(ANUSSR) D = 54.6°
	LmH	01 03.7	The first onset of P must be about 22 s
	LmV	04.7	earlier and falls in the time mark.
31.	e(P)	00 56 23	
31.	e	03 47 29.5	
31.	e	18 42 28	<u>Santa Cruz Islands</u> 11.82°S 166.49°E
	ePKHKP	42 37.5	H = 18 23 03.9 h = normal MAG=5.5
	ePKIKP	42 44	D = 136.2° Az = 337.0° (USCGS)
	e	42 50.5	PPV:11.5s 19/ μ m
	e	42 59	LmH:21s 428/ μ m LmV:21s 479/ μ m
	e	43 12	MPPV=7.1 MLH=8.2 MLV=8.2
	e	43 42	It seems to be possible that the phase

December 1966

Moxa

Day	Phase	h m s	Remarks
cont.			
31.	e	18 45 00	
	ePP	45 24	e 42 28 corresponds to the IJ branche of travel-time curves after Adams and Randall (1964). Another more likely solution would be that e 42 28 is the PKIKP of a weaker foreshock and the USCGS epicentre calculation and origin time is given for this foreshock. The abnormally small given magnitude for this quake makes also possible this idea.
	LmH	19 44.3	
	LmV	44.3	
31.	ePKP	19 12(34)	<u>Santa Cruz Islands</u> 11.61°S 165.93°E
	ePP	15(09)	H = 18 53 12.5 h = normal MAG=5.0 (USCGS)
	e	16 10.5	D = 135.8°
31.	ePKP	19 57(48)	<u>Santa Cruz Islands</u> 11.57°S 165.95°E
			H = 19 38 29.9 h = normal MAG=5.1 (USCGS)
			D = 135.8°
31.	+ePKP	22 34 38	<u>Santa Cruz Islands</u> 11.25°S 164.83°E
	e	34 42	H = 22 15 14.0 h = normal MAG=5.2
	e	34 47	D = 135.0° Az = 336.1° (USCGS)
	i	35 02	LmH: 17s 44 μm LmV: 17s 63.5 μm
	ePP	37(16)	MLH=7.3 MLV=7.4
	LmV	23 39.9	ANUSSR gives: 12.2°S 168.5°E
	LmH	40	H = 22 15 20 h = 97 km
			D = 137.2°

**A Study of Relative Frequency Distribution
of Travel-Time Residuals from P-Wave Observations
at the Station MOXA**

by

PETER BORMANN

The programme controlled computers of the seismological World-Data-Centres in Washington (USCGS), Moscow (ANUSSR), Strasbourg (BCIS), and Edinburgh (ISC) receive the onset times of P waves as input information for the calculation of the epicentres and hypocentres of earthquakes from many stations. If the onset time t_i of a wave at the i^{th} station was exactly determined and if the JEFFREYS-BULLEN travel-time function $t(D, h)$, used in the calculations, exactly corresponded to the actual travel times of this wave, then the problem would only have one single solution satisfying the set of equations

$$\delta t_i \equiv t_i - \{t_0 + t(D_i, h)\} = 0 \quad (1)$$

(δt_i — difference between the observed onset time and the one calculated according to the travel time for the i^{th} station, t_0 — origin time, D_i — epicentral distance of the i^{th} station, h — focal depth).

As actually t_i as well as $t(D, h)$ are afflicted with errors, a solution must be found in a trial and error process for a sufficiently great number n of stations for which the mean quadratic error of the focal time t_0

$$\Psi_0 = \left\{ \frac{1}{n-1} \sum_{i=1}^n \delta t_i^2 \right\}^{1/2} \quad (2)$$

becomes a minimum.

Therefore, an investigation of the travel-time residuals δt_p of the P-wave observations at different stations is of interest in many respects. It can be expected that the character of the δt_p frequency distribution is influenced by the quality of the seismological survey of a station, by possible systematic travel-time errors due to abnormal conditions of the crust and the upper mantle within the area of a station, and possibly also by azimuthal travel-time differences along different wave paths. If we succeeded in taking error sources e.g. weighting factors or travel-time corrections into account for the data of the single stations, then the inner accuracy of the input data used for the epicentre determination at Data-Centres could be increased. In [1] it was critically investigated to what extent cause and amount of systematic real travel-time anomalies can be found out from the study of travel-time residuals based on calculated earthquake data. The relative frequency distributions of the travel-time residuals of P-wave onsets at the station MOXA calculated according to earthquake data of the World-Data-Centre B (ANUSSR, Moscow) were discussed at length in the paper mentioned above.

In this paper the frequency distributions of all δt_p values given in the "Epicenter Data Reports" of USCGS from 1st Jan. 1966 to 30th June 1967 for the station MOXA have been investigated, i.e. also including the residuals of a great number of very weak and indistinct P onsets. We proceeded in the same way in [1], where in most cases the same earthquakes of the same period were investigated. The frequency distributions determined in [1] and in this paper for the chiefly identical P-wave interpretations, however, on the base of epicentre calculations of different data centres, do not only represent the mean quality of the seismological survey of the station MOXA, but also demonstrate, when being compared, the extraordinarily great influence of the results of calculations of the data centres on the frequency distributions of the travel-time errors for one single station.

Fig. 3 shows the relative frequency distribution of the travel-time residuals δt_p for P-wave observations from all azimuths of quakes from epicentral distances $25^\circ \leq D \leq 105^\circ$. The travel-time residuals were comprised in different value intervals for the calculation of the relative frequency distributions. N is the number of the δt_p values in an interval and ΣN is the total number in all intervals. The calibrated quantity $N/\Sigma N$ was put down for each δt_p interval above the mean value of it. The relative frequency distributions were represented for the interval breadths 0.5 s (open circles) and 1 s (black dots). Earthquakes of the same distance and azimuth areas with application of earthquake data reports of ANUSSR resulted in a δt_p distribution of the following characteristic values:

$$\left(\frac{N}{\Sigma N} \right)_{\max} = 0.354 \quad \text{for } \delta t_p \approx +0.25 \text{ s}, \quad \frac{1}{2} \left(\frac{N}{\Sigma N} \right)_{\max} \quad \text{for } \delta t_p = -0.9 \text{ s}$$

and $+1.5$ s. The distinctly smaller maximum and the greater asymmetry and half-value breadth of this frequency distribution compared to the one shown in

fig. 3 are an evidence for the systematic differences in the calculation results of USCGS and of ANUSSR. The cause for them might be the different numbers and distribution of the stations the data of which are used for the calculation of the coordinates of the earthquake in both the centres. From that necessarily result different deviations of the calculated from the real epicentres. The quantity and tendency of possible errors depend both on the configuration and position of the station network used with regard to the earthquake focus [2] and on the quantity and character of azimuthal travel-time differences in comparison with the $t(D, h)$ function used at the calculation [3]. The calculated epicentres can deviate from the real earthquake foci up to some 10 km [2, 3, 4]. As they are always shifted towards higher P-wave velocities in the crust and upper mantle, and that the strongest if the earthquake focus is not surrounded from all sides [3]. Therefore, it is impossible to interpret the slight shifts of the frequency maxima in the fig. 4, 5, 9 and 10 to negative and positive δt_p respectively, as real travel-time anomalies compared with the J.-B. tables along the different wave paths to the station MOXA.

For example, the δt_p frequency distribution for Aleutian quakes in fig. 9 shows a broad maximum for δt_p values between 0 and $+1$ s. No travel-time residual was smaller than -0.8 s for the 53 investigated P onset times. The subterranean nuclear explosion LONGSHOT however, which was fired on the Rat Islands (Aleutian Islands) on October 29th, 1965, and which was clearly recorded at the station MOXA, yielded $\delta t_p = -4.6$ s (!) — the epicentre position, epicentre distance, and origin time of the explosion were exactly known. (The possible reading error for the onset time of P in the given case is smaller than ± 0.2 s). For this explosion, the epicentre calculated by USCGS was located after SYKES [5] about 25 km north of the true place, the standard error of the calculation being only 4 km. A similar result was also obtained by solely using stations in epicentral distances of $D > 20^\circ$.

After FEDOTOV and SLAVINA [7], the epicentres of the Aleutian quakes calculated by the World Data Centre B (Moscow) and published in the "Operative Seismological Bulletin" of the Academy of Sciences of the USSR are shifted generally towards the north-west compared to epicentres of this area by the USCGS. Supposing greatness and tendency of the calculation error for LONGSHOT to be approximately representative, then, as a rule, the epicentres calculated by the World Data Centre B diverge more from the true epicentres than the calculation results of USCGS. This will be intelligible, if one considers that the stations co-operating with the Data-Centre B, in respect of the Aleutians, are only in a small azimuth range. The tendency of shifting observed seems to correspond with the higher P-wave velocity in the upper mantle, which was noticed in the evaluations of the LONGSHOT experiment along the islandgroup towards the west.

Data about the true travel-time anomalies containing all influences of the possibly diverging velocity profiles of the focus and station areas as well as of the wave paths from the model taken as a basis can be found out

- a) directly by a study of the wave onsets of strong (nuclear) explosions (e.g. CARDER, D. S. et al. [6]) or by quakes with wellknown focus coordinates and origin times, or
- b) indirectly by an investigation of the δt differences between different pairs of stations suitably chosen in their position in respect of the epicentre of the quake [7].

Systematic influences of an abnormal station underground on the travel-time, however, will emerge most clearly after [1] and the above-mentioned by using calculated residuals in a summary δt_p distribution as shown in fig. 3. This proves right the more, because by calculating the focus data after formulae (1) and (2) by using a transversal isotropic velocity model, the real travel-time anomalies in the focus area and along the wave paths will be mostly smoothed out completely (compare fig. 9 and the explanations given). The approximately normal error distribution in fig. 3 with a distinct maximum at $\delta t_p = 0$ s does not suggest an abnormal influence. This cannot be expected for the station MOXA foundation: slate of the lower carboniferous, variscian basement, depth of the Moho about 30 km.

Fig. 4 shows a considerably asymmetric frequency distribution with a distinctly greater part of the residuals $\delta t_p > \delta t_{p\max} = -1$ s. In [1] this was attributed to the character of the P-wave signals in the range of the regional transitory zone and the 20° discontinuity. Though less than 30–40 δt_p values are taken as basis for the frequency distributions of each figure from 10 to 13 and they, therefore, cannot be passed for sufficiently reliable, they are presented here for giving a first impression. The applicability of such investigations for the improvement of epicentre calculating of the Data Centres requires similar analyses at the co-operating stations.

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Figures 3–13. Relative frequency distributions for the traveltimes δt_p of the P-wave analyses of the station MOXA compared to the JEFFREYS-BULLEN travel-times. The δt_p data for the station MOXA are taken from the "Earthquake Data Reports" of USCGS for the period from 1. 1. 66 to 30. 6. 67

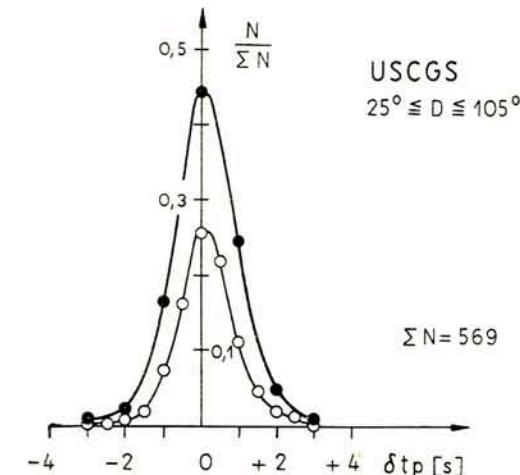


Fig. 3. δt_p distribution of earthquakes from all azimuths with epicentral distances $25^\circ \leq D \leq 105^\circ$

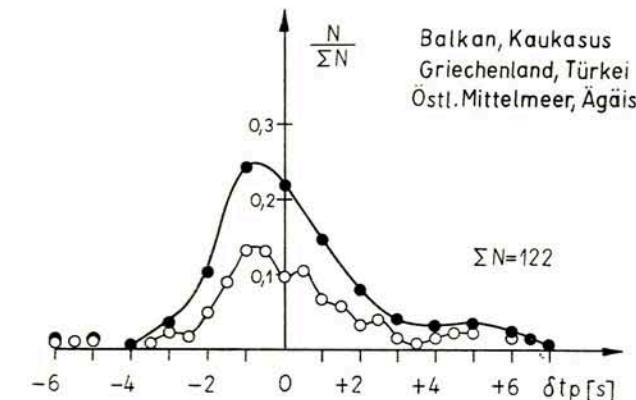


Fig. 4. δt_p distribution of earthquakes with epicentral distances $8^\circ < D < 26^\circ$ in the azimuth range $95^\circ < Az < 155^\circ$

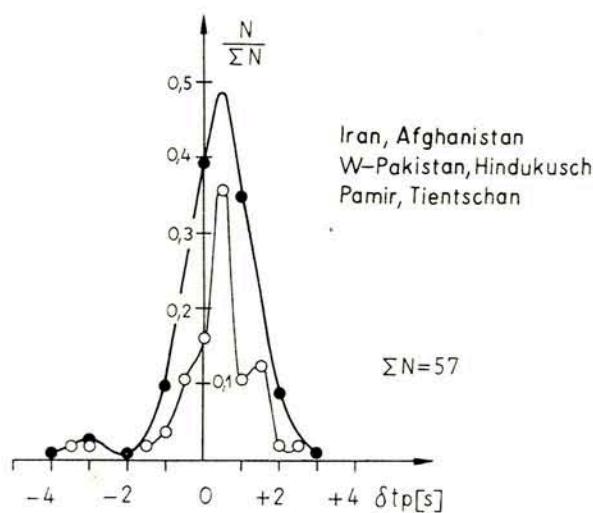


Fig. 5. δt_p distribution of earthquakes with epicentral distances $30^\circ < D < 50^\circ$ in the azimuth range $70^\circ < Az < 110^\circ$

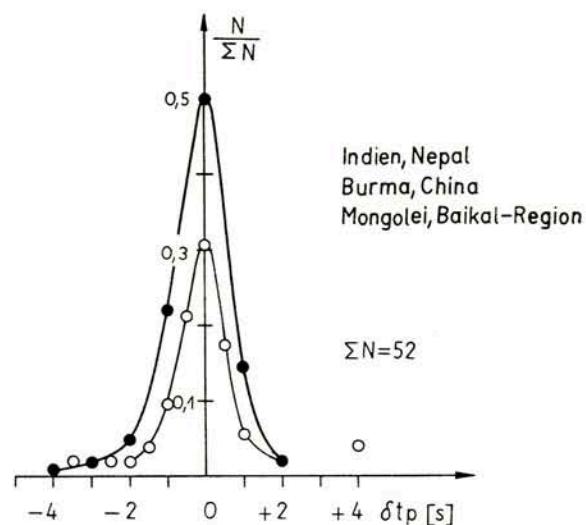


Fig. 6. δt_p distribution of earthquakes with epicentral distances $44^\circ < D < 73.5^\circ$ in the azimuth range $40^\circ < Az < 85^\circ$

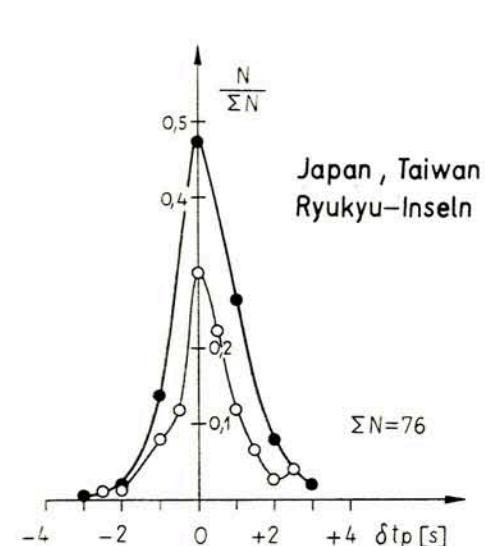


Fig. 7. δt_p distribution of earthquakes with epicentral distances $75^\circ < D < 89^\circ$ in the azimuth range $32^\circ < Az < 62^\circ$

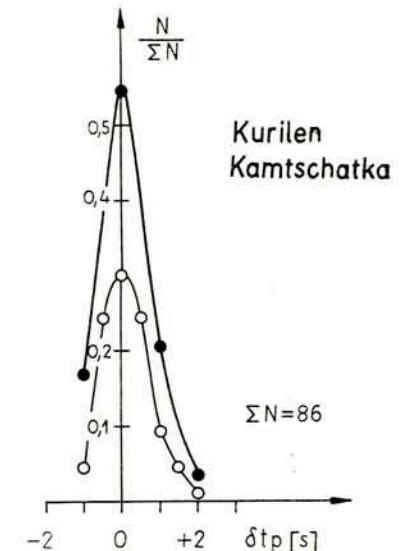


Fig. 8. δt_p distribution of earthquakes with epicentral distances $70.5^\circ < D < 79^\circ$ in the azimuth range $15^\circ < Az < 31^\circ$

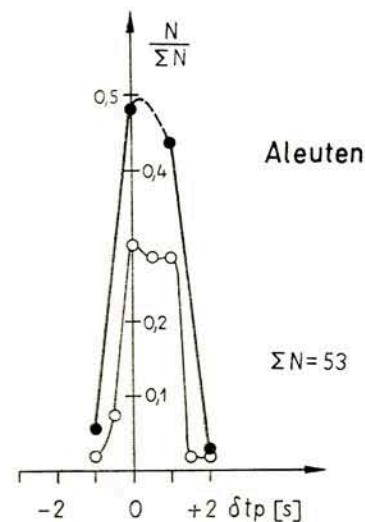


Fig. 9. δt_p distribution of earthquakes with epicentral distances $75^\circ < D < 78.5^\circ$ in the azimuth range $355^\circ < Az < 13^\circ$

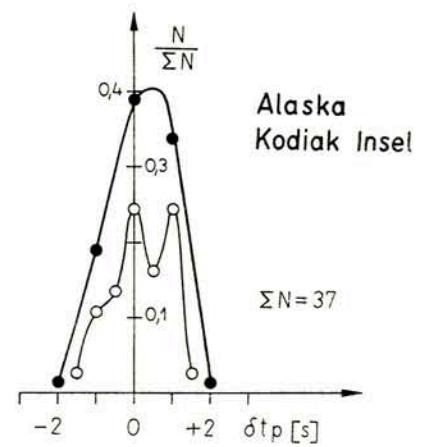


Fig. 10. δt_p distribution of earthquakes with epicentral distances $62^\circ < D < 73^\circ$ in the azimuth range $345^\circ < Az < 360^\circ$

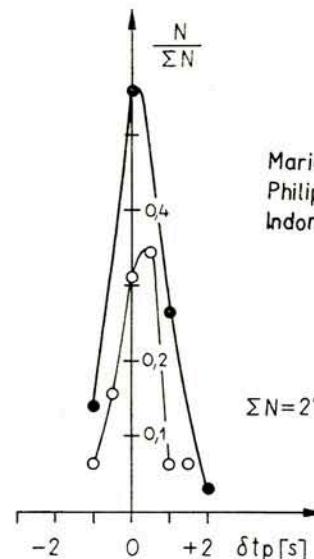


Fig. 11. δt_p distribution of earthquakes with epicentral distances $82.5^\circ < D < 105^\circ$ in the azimuth range $40^\circ < Az < 92^\circ$

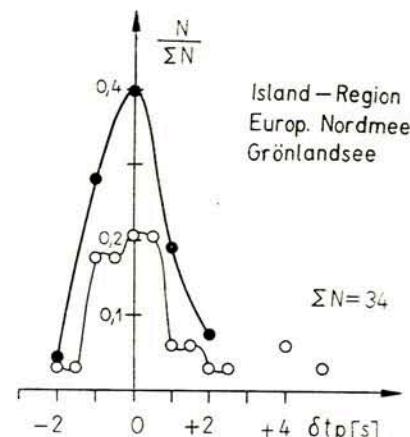


Fig. 12. δt_p distribution of earthquakes with epicentral distances $20.5^\circ < D < 29^\circ$ in the azimuth range $320^\circ < Az < 360^\circ$

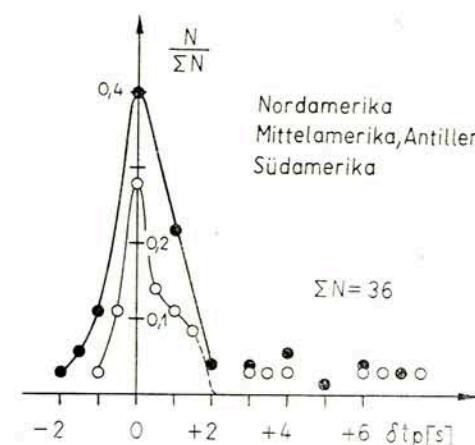


Fig. 13. δt_p distribution of earthquakes with epicentral distances $66.5^\circ < D < 102^\circ$ in the azimuth range $245^\circ < Az < 320^\circ$

HEINZ STILLER

Die thermoremanente Magnetisierung von Ergußgesteinen

(Abhandlungen des Geomagnetischen Instituts Potsdam
der Deutschen Akademie der Wissenschaften zu Berlin, Nr. 39)

1967. 132 Seiten – 21 Abbildungen, davon 2 Abb. auf 1 Tafel – 17 Tabellen – 4° – 18,50 M

Der Autor behandelt in dieser Arbeit Probleme des Gesteinsmagnetismus, einem Spezialzweig der Gesteinsphysik, der sich in den letzten zehn Jahren außerordentlich rasch entwickelt hat. Speziell beschäftigt er sich mit den physikalischen Eigenschaften der Thermoeremanzen von Magnetiten. Die Grundlage dafür bilden die theoretischen Ergebnisse über die magnetischen Charakteristiken und den Magnetisierungsprozeß von polykristallinen ferromagnetischen Materialien.

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