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Methoden der Satellitengeodäsie

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

Ausführlich werden die benötigten astronomischen und geodätischen Koordinatensysteme, die Reduktionsverfahren, insbesondere für photographische Satellitenbeobachtungen, und die Berechnung der Ephemeriden der künstlichen Erdsatelliten behandelt.

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

Bestellungen durch eine Buchhandlung erbeten



AKADEMIE-VERLAG · BERLIN

DEUTSCHE AKADEMIE DER WISSENSCHAFTEN ZU BERLIN

Zentralinstitut Physik der Erde (ZIPE)

Seismologischer Dienst Jena

Seismological Bulletin 1967 Station Moxa (MOX)

By

Peter Bormann and Johannes Stelzner



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with 15 Figures



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PREFACE

With the beginning of the volume 1967, the "Seismological Bulletin of the Station Moxa" is published as an independent publication.

The former series of „Veröffentlichungen des Instituts für Geodynamik Jena“ was stopped as a result of the constitution of the „Zentralinstitut Physik der Erde“ 1969, February, in which new institution the „Institut für Geodynamik Jena“ is incorporated.

During 1967, the equipment of station Moxa has been little changed. Since 1967, 20 January a new short-period vertical seismometer from type VSJ-II with the magnification of 100000 at the period of 1 s is working. The records of seismometers from type Krumbach ($V_{\max} = 2000$, $T_0 = 2$ s) are stopped in August 1967.

The Seismological Bulletin has been developed from 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. Some changes in the scheme of the evaluation are noticed in the "Preliminary Notes for the Interpretation of Seismograms".

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

There is added to the Bulletin a scientific contribution concerning "Relative Frequencies of Body Wave Onsets in Seismic Registrations of the Station Moxa".

PREFACE

With the beginning of the volume 1967 the "Seismological Bulletin of the Station Moxa" is published as an independent publication.

The former section "Preliminary Notes for the Interpretation of Seismograms" was stopped as a result of the withdrawal of the "Seismological Bulletin of the Station Moxa" in February 1967, in which new methods for the interpretation of seismograms are incorporated.

During 1967 the equipment of station Moxa was renewed. Since 1967 to January a new short period vertical component was installed with the magnification of 0.0001 of the period of 1 s. The recording system consists of two types: K1000 (1 sec) and K100 (1/10 sec) in August 1967.

The Seismological Bulletin has been described from its general organization of the Seismological Service under the direction of Professor BORMANN, who was assisted by Professor GOTTWALD.

Final interpretations of the registrations were done by Peter BORMANN. These changes in the content of the Bulletin are indicated by the "Preliminary Notes for the Interpretation of Seismograms".

Control of the instruments of the station Moxa was carried out under the direction of Professor GOTTWALD.

There is added to the Bulletin a scientific contribution by Professor BORMANN: "Preliminary Notes for the Interpretation of Seismograms".

Preliminary notes for the interpretation of seismograms
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PKKP — direct longitudinal wave refracted in the inter- mediary zone between inner and outer core. Phase velocity according to POTY (1) (travel time branch GU)	
PKP — direct longitudinal wave travelled through the outer core only (travel-time branch AB)	
PKP — first noticeable onset of longitudinal wave phase, not identified	
PKP — waves reflected by the earth surface with permanent longitudinal character	
PKKP — core phase reflected once within the core at the outer core boundary	
PKPKP — longitudinal wave phase reflected at the earth sur- face	
S _g — direct transverse wave in near equatorial discon- tinuity ($D < 10^\circ$)	
S _g , S _g — guided transverse local waves along the Cuvier- or Manuscript discontinuity ($D < 10^\circ$)	
S — direct transverse wave travelled through the earth mantle	

Preliminary notes for the interpretation of seismograms

In the Bulletin the international code is used:

1. Phase interpretation

Pg — direct longitudinal wave in near epicentral distances ($D < 10^\circ$)

Pb, Pn — guided longitudinal head waves along the CONRAD- or MOHORovičić-discontinuity ($D < 10^\circ$)

P — direct longitudinal wave travelled through the earth mantle

PKIKP — direct longitudinal wave travelled through the inner core (travel-time branch DF)

PKHKP — direct longitudinal wave refracted in the intermediary zone between inner and outer core. Phase symbol according to BOLT [1] (travel-time branch GH)

PKP2 — direct longitudinal wave travelled through the outer core only (travel-time branch AB)

PKP — first noticeable onset of longitudinal core phase, not identified

PP, PPP — waves reflected on the earth surface with permanent longitudinal character

PKKP — core phase reflected once within the core at the outer core boundary

PKPPKP — longitudinal core phase reflected at the earth surface

Sg — direct transversal wave in near epicentral distances ($D < 10^\circ$)

Sb, Sn — guided transversal head waves along the CONRAD- or MOHORovičić-discontinuity ($D < 10^\circ$)

S — direct transversal wave travelled through the earth mantle

- SKS — direct wave travelled transversal through the mantle and longitudinal through the core
- SS, SSS — waves reflected on the earth surface with permanent transversal character
- SKKS — wave travelled transversal through the mantle, longitudinal through the core and reflected within the core at the outer core boundary
- PcP, ScS, PcS, ScP — longitudinal and transversal waves with steady or changing character reflected at the outer core
- PS, SP, PPS — longitudinal and transversal waves with changing character reflected at the surface of the earth
- pP, sP, pPP, sPP, pPKIKP, sPKP2, pS — phases of deep-focus 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
- P_1, P_2, P_3, \dots
 PP_1, PP_2, \dots
 S_1, S_2, \dots
 $PKKP_1, PKKP_2, \dots$
 $PKPPKP_1, PKPPKP_2, \dots$ — multiple onsets of body waves
- P_n, S_n — teleseismic P_n and S_n waves in the epicentral distances $23^\circ < D < 40^\circ$ after BATH [2]
- Pa, Sa — waves probably guided in the asthenosphere channel or higher modes of surface waves
- PL — leaking modes, normal dispersed train of waves of periods greater than about 10 s, beginning at or near the time of initial P-wave
- X, Y, Z — remarkable phases of body waves, not to be identified
- $Li, Lg1, Lg2, Rg$ — guided waves in the continental crust, probably higher modes of surface waves
- $L(3.20), R(2.90)$ — waves guided 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 and horizontal component respectively of longperiodical surface waves. If there are several maxima with comparable proportions in A/T, the numeration was carried out in a temporal sequence e. g. Lm1H, Lm2H

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

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

2. Measurement of amplitudes and calculation of magnitudes

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

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

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

for maxima of body waves ($h < 60 \text{ km}$) P(PH, PV), PP(PPH, PPV), and S(SH)-Q-functions from GUTENBERG and RICHTER [3] — and

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

The station correction S was not yet taken into consideration.

- MPV, MP1V, MP2V, MPPV — magnitude of vertical component V of the adequate body waves
- MPH, MPPH, MSH — magnitude of horizontal component H of the adequate body waves
- MLV, ML1V, ML2V — magnitude of the vertical component V of the maximum surface waves
- MLH, ML1H, ML2H — magnitude of the horizontal component H of the maximum surface waves

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

3. Direction of body-wave onsets

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

in the Z component + ground motion upwards, compression
- ground motion downwards, dilatation

in the N component + ground motion to the north
- ground motion to the south

in the E component + ground motion to the east
- ground motion to the west

4. Further abbreviations

i - sharp beginning of phase motion (impetus)

e - gradual beginning of phase motion (emersio)

D - epicentral distances in degree ($^{\circ}$), calculated according to geocentric coordinates, the maximum error of the own calculations amounts to $\pm 0,1^{\circ}$

Az - azimuth: clockwise measured angle between north direction in epicentre and the connecting line from epicentre to station Moxa

h - depth of focus in km, our data for depth of focus are based on travel-time curves for deep focus earthquakes after GUTENBERG and RICHTER [5]

H - origin time in GMT (Greenwich Mean Time)

USCGS - United States Coast and Geodetic Survey, Washington

BCIS - Bureau Central International de Séismologie, Strasbourg

ANUSSR - Academia Nauk USSR, Moscow

UPP - Seismological Institute Uppsala, Sweden

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

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

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

Elevation above
mean sea level: 455 m

Bedrock: clay slate of the lower carboniferous formation

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

Address: Zentralinstitut Physik der Erde (since February 1969) Institutsteil Jena, Seismologischer Dienst
DDR-69 Jena, Burgweg 11
German Democratic Republic
Telex: 058 8668 seis dd

Seismographs and their parameters 1967

T_0 - seismometer free period

T_g - galvanometer free period

D_s - seismograph damping

D_g - galvanometer damping

V_0 - magnification factor

N - north-south component

E - east-west component

Z - vertical component

Type	Comp.	T_n [s]	T_g [s]	D_n	D_g	V_0	σ^2
Krumbach (modif.)	Z	2.0	0.21	0.54	3.68	23500	0.221
SKM-III	N	1.53	0.34	0.5	2.23	19000	0.10
	E	1.45	0.35	0.5	2.08	23000	0.12
	Z	1.49	0.35	0.5	2.12	19000	0.13
VSJ-II	Z	1.0	1.0	0.50	0.50	43700	0.56
SSJ-I	N	20	1.13	0.48	8.79	220	0.074 [*])
		20	1.13	0.50	8.87	112	0.074 ^{**)}
		20	1.14	0.50	8.79	1120	0.074
	E	20	1.13	0.51	8.83	210	0.071 [*])
		20	1.13	0.49	8.85	107	0.071 ^{**)}
		20	1.16	0.49	8.61	1090	0.071
	Z	20	1.13	0.51	8.83	210	0.048 [*])
		20	1.13	0.48	8.82	107	0.048 ^{**)}
		20	1.24	0.48	8.05	1070	0.048
SSJ-I/L	N	30	70.7	1.24	0.5	1500	0.15
	E	30	79.1	1.3	0.5	1200	0.087
	Z	30	77.2	1.3	0.5	1300	0.066
Strain/L	N		48.6		0.60	55 ^{***)}	
	E		53.4		0.69	74 ^{***)}	
Wiechert 1200 kp	N	6.2		0.27		230	
	E	7.2		0.34		205	
Mainka 150 kp 200 kp	N	19.3		0.31		50	
	E	21.4		0.47		47	

^{*}) 1. 1. - 30. 8.

^{**)} 1. 9. - 31. 12.

^{***)} for wave velocity 5 km s⁻¹

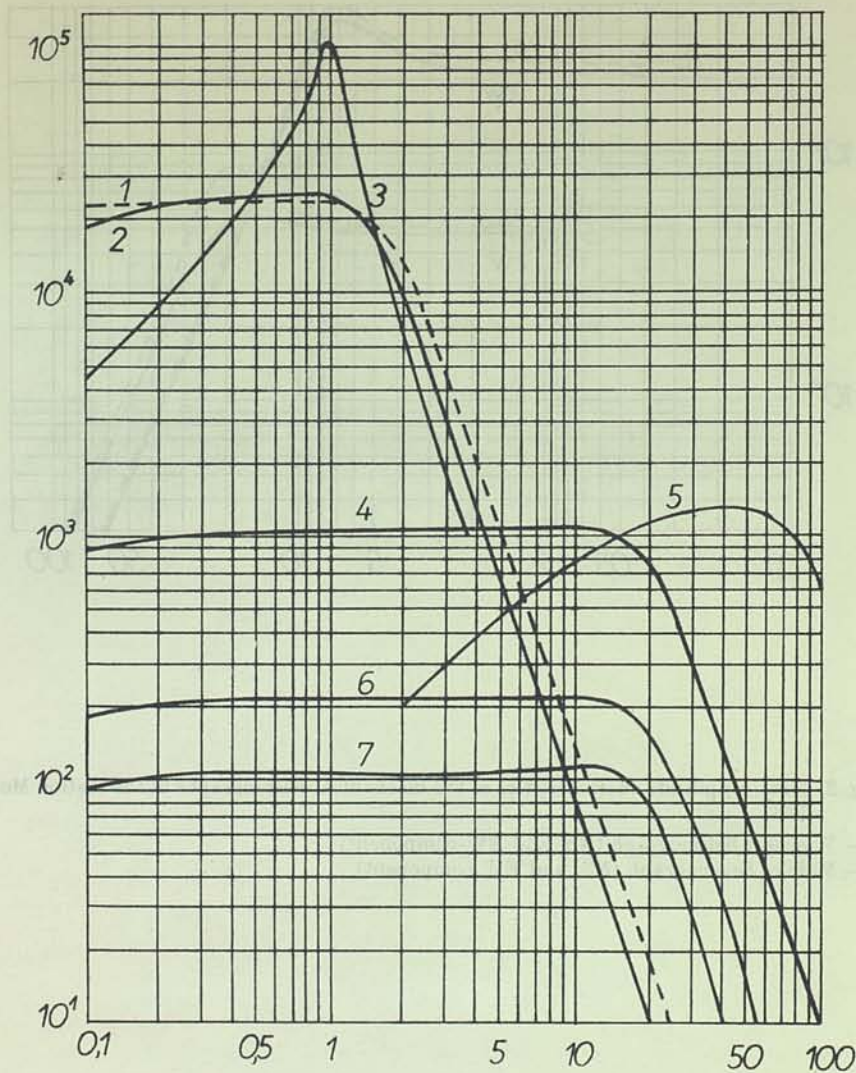


Fig. 1. Mean amplitude characteristics of the electromagnetic seismographs of the station Moxa 1967

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

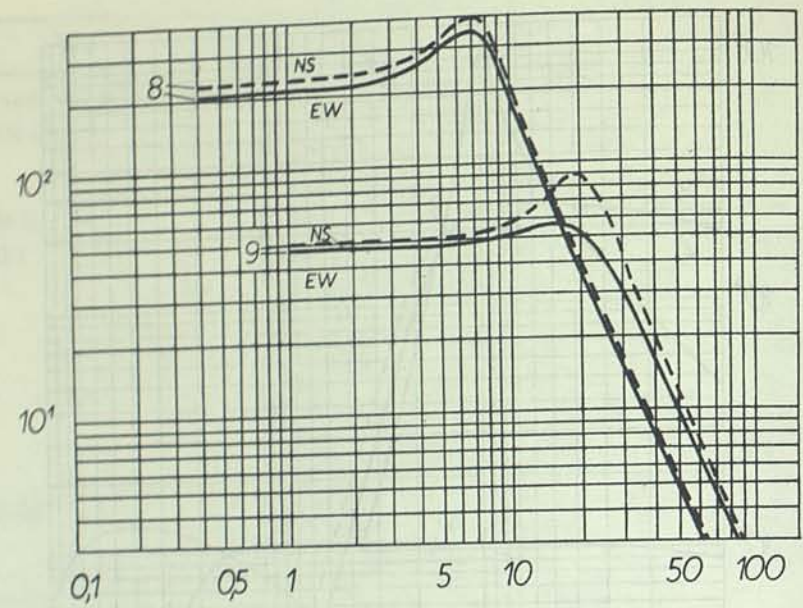


Fig. 2. Mean amplitude characteristics of the mechanical seismographs of the station Moxa 1967

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



Fig. 1. Mean amplitude characteristics of the mechanical seismographs of the station Moxa 1967

- 1 — Wiechert Seismograph (NS- and EW-component)
- 2 — Mainka Seismograph (NS- and EW-component)
- 3 — Wiechert Seismograph (NS- and EW-component)
- 4 — Mainka Seismograph (NS- and EW-component)
- 5 — Wiechert Seismograph (NS- and EW-component)
- 6 — Mainka Seismograph (NS- and EW-component)
- 7 — Wiechert Seismograph (NS- and EW-component)

Seismological Recordings at Station Moxa 1967

No.	Date	Time	Magnitude	Station	Component	Amplitude	Remarks
1	1967-01-01	10:00	4.5	Moxa	NS	100	...
2	1967-01-01	10:05	4.5	Moxa	EW	100	...
3	1967-01-01	10:10	4.5	Moxa	NS	100	...
4	1967-01-01	10:15	4.5	Moxa	EW	100	...
5	1967-01-01	10:20	4.5	Moxa	NS	100	...
6	1967-01-01	10:25	4.5	Moxa	EW	100	...
7	1967-01-01	10:30	4.5	Moxa	NS	100	...
8	1967-01-01	10:35	4.5	Moxa	EW	100	...
9	1967-01-01	10:40	4.5	Moxa	NS	100	...
10	1967-01-01	10:45	4.5	Moxa	EW	100	...

January 1967

Moxa

Day	Phase	h m s	Remarks
1.	ePKP	A 00 40 28	<u>Santa Cruz Islands</u> 12.07°S 166.22°E
	ePP	A 43 07	H = 00 21 06.6 h = normal MAG=4.9 D = 136.3° Az = 336.7° (USCGS)
1.	eP	A 03 11 18	<u>Andaman Islands Region</u> 10.71°N 92.78°E
	e	A 11 37	H = 02 59 33.8 h = 60 km MAG=5.2 (USCGS) D = 76.2°
1.	ePKP	A 07 25 22.5	<u>Tonga Islands</u> 15.27°S 173.65°W
	+i	A 25 24.2	H = 07 05 48.6 h = normal MAG=6.0 (USCGS)
	-i	B 25 32.5	D = 144.5°
	ePP	B 28 38	PV1:1.2s 46.0nm PV2:1.3s 117nm
	eSKKS	C 35 31	PV3:11s 3.1/um
	iSKSP	B 38 44	LmH:18.5s 4.7/um LmV:17.5s 4.4/um
	ePSKS	C 38 52	MLH=6.2 MLV=6.2
	ePPS	C 41 10	i 25 28.0 e 25 35
	eSS	C 47.8	
	LmH	B 08 30.5	
	LmV	B 36.6	
1.	ePKIKP	A 09 04 19	<u>Fiji Islands</u> 20.51°S 178.41°W
	ePKHKP	A 04 23	H = 08 45 42.2 h = 627 km MAG=5.6
	ePKP2	A 04 29	D = 148.9° Az = 347.6° (USCGS);
	e	A 06 24	(h = ca. 610 km)
	e(pPKHKP)A	06 40	PV2:1.4s 48.5nm
1.	e	A 09 17 13	<u>Santa Cruz Islands</u> 12.26°S 165.98°E
	e(PP)	A 17 30	H = 08 55 16.8 h = normal MAG=4.7 (USCGS)
	LmH	B 10 21.2	D = 136.5°
	LmV	B 21.2	LmH:17s 1.1/um LmV:16s 1.3/um MLH=5.6 MLV=5.7
1.	iP	A 10 06 03.3	
1.	LmH	B 15 44.6	<u>Santa Cruz Islands</u> 12.39°S 165.78°E
	LmV	B 44.6	H = 14 18 51.4 h = normal MAG=5.0 (USCGS) D = 136.5° LmH:ca.20s ca.0.7/um LmV:ca.20s ca.0.9/um MLH=ca.5.3 MLV=ca.5.4

January 1967

Moxa

Day	Phase	h m s	Remarks
1.	ePKP	A 22 18 22	<u>Santa Cruz Islands</u> 11.13°S 165.46°E
	e	A 18 29	H = 21 58 57.8 h = normal MAG=5.4 (USCGS)
	e	A 18 40	D = 135.0°
	e	A 21 38	LmH:16s 1.2/um LmV:18s 1.5/um
	LmH	B 23 22.5	MLH=5.7 MLV=5.7
	LmV	B 25.6	e 23 29
1.	LmV	B 23 49.2	LmH:16s 1.1/um LmV:16s 1.5/um
	LmH	B 49.5	
2.	e	A 04 16 38	
	i	A 16 50.0	
2.	LmH	B 07 57.5	<u>Near Coast of Northern Chile</u>
	LmV	B 57.5	25.21°S 70.98°W H = 06 53 17.5 h = 38 km MAG=5.0 (USCGS) D = 104.6° LmH:20s 0.97/um LmV:20s 0.9/um MLH=5.3 MLV=5.3
2.	eP	A 08 24 08	<u>Near Coast of Libya</u> 32.21°N 22.75°E
	i	A 24 10.5	H = 08 19 32.8 h = 20 km MAG=4.5
	i	A 24 15.5	D = 20.2° Az = 339.1° (USCGS)
	ei	A 24 22	PV1:1.4s 24.2nm PV2:1.5s 60.0nm
	ePP	A 24 29	PV3:1.5s 80.0nm PV4:1.8s 122nm
	eS	B 27 54	LmH:17s 2.0/um
	LmH	B 33.0	MPV1=4.2 MPV2=4.6 MLH=4.6 Successive P-onsets with increasing amplitude.
2.	-iP	A 09 58 14.3	<u>Republic of the Congo</u> 10.18°S 28.54°E
	epP	A 58 24	H = 09 47 53.3 h = normal MAG=5.6
	isP	A 58 29.0	D = 62.3° Az = 347.9° (USCGS); h = 40 km
	ei	A 58 37.5	PV:1.2s 41.0nm pPV:1.4s 24.2nm
	e	A 58 58	MPV=5.4
2.	eP	A 13 56 57.5	<u>Iran</u> 30.63°N 50.43°E
	e	A 57 18	H = 13 50 06.2 h = 40 km MAG=5.2 D = 35.1° Az = 316.0° (USCGS)

January 1967

Moxa

Day	Phase	h m s	Remarks
2.	eP	A 14 03 12.5	
2.	iPg	A 14 10 04.8	<u>Explosion/GDR</u> 51.37°N 12.89°E
	iSg	A 10 20.5	D = 1.1°
2.	ePKIKP	A 20 19 17	<u>Santa Cruz Islands</u> 12.33°S 166.41°E
	e	A 19 21	H = 19 59 58.2 h = normal MAG=5.2
	e	A 19 29	D = 136.6° Az = 336.8° (USCGS)
	ePP	B 22 00	PV2:1.2s 17.9nm PV3:1.6s 41.6nm
	eSKP	A 22 53	SKPV:1.8s 51.0nm
	eSS	C 40.2	LmH:20s 1.5/um LmV:16s 1.5/um
	LmH	B 21 24.2	MLH=5.7 MLV=5.8
LmV	B 25.1	Successive PKP-onsets with increasing amplitude.	
3.	eP	B 05 39(21)	<u>Kenai Peninsula/Alaska</u> 60.86°N 151.53°W
	ipP	B 39 43	H = 05 28 29.3 h = 92 km MAG=4.6 (USCGS)
	e	B 40 03.5	D = 68.0° h = 90 km pP is greater than P.
3.	eSS	C 06 15.6	<u>Santa Cruz Islands</u> 10.91°S 165.50°E
	LmH	B 59.4	H = 05 35 46.6 h = normal MAG=5.2 (USCGS)
	LmV	B 07 02.6	D = 135.0° LmH:18s 4.1/um LmV:16s 3.2/um MLH=6.2 MLV=6.1
3.	LmH	B 07 07.2	LmH:16s 5.9/um
3.	LmH	B 07 16.5	<u>Santa Cruz Islands</u> 11.16°S 165.46°E
	LmV	B 19.5	H = 05 52 51.8 h = normal MAG=5.3 (USCGS) D = 135.2° LmH:17.5s 4.7/um LmV:17s 3.5/um MLH=6.2 MLV=6.1 AN USSR gives: 10.4°S 165.0°E H = 05 53 06 h = 134 km
3.	LmV	B 07 43.2	LmH:15.5s 2.9/um LmV:16s 3.5/um
	LmH	B 43.7	

January 1967

Moxa

Day	Phase	h m s	Remarks
3.	LmH B	12 19.2	Probably North Atlantic Ocean
	LmV B	(20)	
3.	LmH C	12 55	Probably Santa Cruz Islands (USCGS)
3.	1PKP A	20 32 20.5	<u>New Hebrides Islands</u> 20.50°S 169.27°E
	epPKP A	32 32	H = 20 12 48.4 h = 46 km MAG=4.4 D = 145.1° Az = 335.0° (USCGS); h = 42 km PV:1.2s 25.6nm
3.	ePKP A	21 42 43	<u>Santa Cruz Islands</u> 12.38°S 166.36°E
	ePP A	45 25	H = 21 23 21.8 h = normal MAG=5.0
	eSKP A	46 13	D = 136.6° Az = 336.7° (USCGS)
	eSS C	22 03 38	LmH:19s 0.8 μ m LmV:18s 0.76 μ m
	eSSS C	08 48	MLH=5.4 MLV=5.4
	LmH B	49	e 42 52 e 45 30 e 45 37 e 46 35
	LmV B	(49)	
4.	-1P A	03 54 13.0	<u>Philippine Islands Region</u> 20.32°N 120.02°E
	+1pP A	54 23.0	H = 03 41 36.4 h = normal MAG=5.6
	e A	57 24	D = 85.5° Az = 322.7° (USCGS); h = 37 km
	e(P) A	57 33	PV:1.6s 75.5nm pPV:1.5s 56.7nm
	LmV B	04 36.8	LmH:13s 0.97 μ m LmV:12s 1.26 μ m
	LmH B	37.3	MPV=5.6 MLH=5.4 MLV=5.5
4.	LmH C	04 05	<u>Bismarck Sea</u> 3.58°S 148.95°E
	LmV C	05	H = 02 53 28.1 h = 9 km MAG=4.9 (USCGS) D = 121.0° LmH:23s 0.66 μ m LmV:24s 0.6 μ m MLH=5.2 MLV=5.2
4.	1 A	04 44 33.0	<u>Taunus/GFR</u> 50.1°N 8.2°E
	e1Sg A	45 06	H = 04 43 52 (BCIS)
	e1 A	45 10	D = 2.3°
4.	e(P) A	06 02 18.5	<u>Greece</u> 38.64°N 22.14°E
	e A	02 21	H = 05 58 54.1 h = 7 km MAG=5.2
	e A	02 27	D = 14.1° Az = 331.6° (USCGS)
	1PP A	02 30.3	Successive P-onsets with increasing amplitude.

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Day	Phase	h m s	Remarks
cont.			
4.	eSS C	06 05 16	
	LmH C	08.2	
4.	eSg A	08 02 44	<u>Taunus/GFR</u> 50.1°N 8.2°E H = 08 01 32 (BCIS) D = 2.3°
4.	epP A	11 37 56	<u>Burma-India Border Region</u>
	e A	38 06	23.43°N 93.91°E
	e A	38 22	H = 11 26 45.4 h = 58 km MAG=5.4 (USCGS) D = 67.5° (h = ca. 70 km) The P-onset must be 18 s earlier than pP. An alternative interpretation would be that the phase given as pP is the P-onset of a second stronger shock in the same place.
4.	e A	14 36 18	Probably explosion.
	e A	36 22	
4.	eP A	18 12 38	<u>Near S. Coast of Southern Honshu</u> 33.64°N 135.82°E H = 18 00 58.7 h = 416 km MAG=4.3 (USCGS) D = 82.7°
4.	eP A	20 27 11.5	<u>Near Coast of Venezuela</u> 10.74°N 62.50°W
	epP A	27 31	H = 20 15 55.8 h = 74 km MAG=5.5
	esP A	27 40.5	D = 71.7° Az = 10.2° (USCGS); h = 80 km AN USSR gives: h = normal
4.	e A	20 43 28	Explosion?
4.	LmH C	23 47	Probably South Sandwich Islands (USCGS)
5.	+eiP1 A	00 24 15.5	<u>Mongolia</u> 48.08°N 102.80°E
	iP2 A	24 21.5	H = 00 14 40.4 h = normal MAG=6.4
	iP3 AB	24 28.0	D = 55.7° Az = 309.6° (USCGS)
	ePP2 B	26 27.5	PV1:1.2s 71.8nm PV2:1.8s 1120nm

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Day	Phase	h m s	Remarks
cont.			
5.	ePP3	B 00 26 34	PV3(A):1.6s 1575nm PV3(B):8s 16.3 μ m
	eS2	B 32 04	SH3:18s 60 μ m
	IS3	B 32 11	LmV:17s (610 μ m)
	eISS	B 35 56	MPV1=5.6 MPV2=6.6 MPV3(A)=6.8
	ISSS	B 37 44	MPV3(B)=7.1 MSH3=7.3 MLV=ca.7.8
	LmV	B 48.0	Multiple body wave onsets with successively increasing amplitudes. It seems to be possible to interpret this as successive shocks with increasing magnitude in the same location. Compare Jan. 20 at 02 06. P has a period of about 23 s in the long-period seismographs of the SSJ-1/L type (type C).
5.	eP	A 00 51(50)	<u>Mongolia</u> 48.38 $^{\circ}$ N 103.05 $^{\circ}$ E H = 00 42 13.3 h = normal MAG=5.6 (USCGS) D = 55.6 $^{\circ}$
5.	eP	A 06 26 18.5	<u>Mindoro/Philippine Islands</u>
	e	A 26 22	13.82 $^{\circ}$ N 120.68 $^{\circ}$ E
	e	A 27 06	H = 06 13 31.6 h = 166 km MAG=5.4
	l	A 27 14.8	D = 91.1 $^{\circ}$ Az = 323.0 $^{\circ}$ (USCGS)
	e	A 27 27	PV:1.4s 30.3nm
	LmH	C 07(04)	MPV=5.2 AN USSR gives: h = normal
5.	+1P	A 10 16 03.4	<u>Kirgiz SSR</u> 39.41 $^{\circ}$ N 72.93 $^{\circ}$ E
	e1(pP)	A 16 09	H = 10 07 58.3 h = 11 km MAG=5.3
	ePP	A 17 45	D = 43.6 $^{\circ}$ Az = 305.9 $^{\circ}$ (USCGS);
	eS	C 22 30	(h = 25 km)
	eSS	C 25(48)	PV:1.2s 28.2nm
	LmH	B 34.3	LmH:18s 1.9 μ m LmV:14s 2.3 μ m
	LmV	B 38.3	MPV=5.1 MLH=5.1 MLV=5.3 e 16 14 l 16 17.0 e 17 55
5.	e	A 16 38(00)	<u>Savoy/France</u> 46.2 $^{\circ}$ N 6.4 $^{\circ}$ E
	eSg	A 38 06	H = 16 35 01 (BCIS)
	lLg2	A 38 11.0	D = 5.7 $^{\circ}$

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Day	Phase	h m s	Remarks
5.	eSg	A 20 09 30	<u>Austria</u> 46.8 $^{\circ}$ N 13.7 $^{\circ}$ E H = 20 07 20 (BCIS) D = 4.1 $^{\circ}$
5.	eSg	A 20 11 43	<u>Austria</u> 46.8 $^{\circ}$ N 13.7 $^{\circ}$ E H = 20 09 36 (BCIS) D = 4.1 $^{\circ}$
6.	+1P	A 00 07 57.0	<u>Mongolia</u> 48.10 $^{\circ}$ N 102.90 $^{\circ}$ E
	eS	C 15 40	H = 23 58 21.4 h = normal MAG=5.4
	LmH	B 33	D = 55.8 $^{\circ}$ Az = 309.6 $^{\circ}$ (USCGS)
	LmV	B 34.2	PV:1.3s 72.2nm LmH:15s 3.7 μ m LmV:16s 5.2 μ m MPV=5.6 MLH=5.6 MLV=5.7
6.	+e1P	A 00 16 03	<u>Hokkaido/Japan Region</u> 41.80 $^{\circ}$ N 143.34 $^{\circ}$ E
	e	A 16 10	H = 00 04 02.7 h = 35 km MAG=5.5
	epP	A 16 13.5	D = 78.7 $^{\circ}$ Az = 331.0 $^{\circ}$ (USCGS); h = 40 km
	eS	C 25 55	PV:2.0s 214nm
	e(ScS)	C 26 11.5	LmH:17s 4.6 μ m LmV:17s 5.6 μ m
	LmH	B 53.8	MPV=5.9 MLH=5.9 MLV=6.0
	LmV	B 58.1	
6.	ePn	A 04 45 10	<u>Northeastern Italy</u> 45.9 $^{\circ}$ N 11.5 $^{\circ}$ E
	e(Pg)	A 45 29	H = 04 43 58 (BCIS)
	eSn	A 46 05.5	D = 4.8 $^{\circ}$
	eSg	A 46 30.5	e 46 37
7.	ePKIKP	A 00 46 34	<u>Southeast Indian Rise</u> 48.79 $^{\circ}$ S 112.75 $^{\circ}$ E
	eSKP	B 49 59	H = 00 27 25.2 h = normal MAG=5.8
	eSKKS	C 55 48	D = 131.3 $^{\circ}$ Az = 303.8 $^{\circ}$ (USCGS)
	eSS	C 01 06 28	PV1:1.8s 61.2nm SKPV:8s 1.2 μ m
	eSSS	C 11 15	e 49 47.5 e 07 18
	LmH	C 43.0	
	LmV	B 48.8	

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Day	Phase	h m s	Remarks
7.	ePKP A	11 52(20)	<u>Santa Cruz Islands</u> 12.28°S 166.05°E
	LmH B	12 59	H = 11 33 00.5 h = normal MAG=4.7 (USCGS)
	LmV B	59	D = 136.4° LmH:18s 0.7/um LmV:18s 0.8/um MLH=5.4 MLV=5.4
7.	LmH B	14 40	<u>South of Mariana Islands</u> 11.80°N 142.67°E
	LmV B	40	H = 13 34 48.3 h = 36 km MAG=5.6 (USCGS) D = 104.7° LmH:20s 0.8/um LmV:20s 1.2/um MLH=5.3 MLV=5.4
7.	ePP B	17 03 02	<u>Santa Cruz Islands</u> 11.87°S 166.06°E
	e B	03 30	H = 16 41 03.0 h = normal MAG=5.1 (USCGS)
	eSKP B	03 48	D = 136.1°
	eSS C	21.0	LmH:18s 1.2/um LmV:18s 1.0/um
	LmH B	18 04.5	MLH=5.6 MLV=5.6
8.	eP B	05 14 08	<u>Near East Coast of Kamchatka</u>
	i A	14 09.5	55.97°N 162.87°E
	ePP B	16 48	H = 05 02 52.1 h = normal MAG=5.1 (USCGS)
	eS C	23 26	D = 71.5°
	ePPS C	24 04	PV:8s 0.85/um PPV:10s 0.4/um
	eSS C	28.0	LmH:15.5s 3.1/um
	LmH C	45.5	MPV=5.9 MPPV=5.6 MLH=5.7
8.	eP A	05 18 04.5	<u>Near East Coast of Kamchatka</u> 59.09°N 162.91°E H = 05 06 47.7 h = 23 km MAG=4.9 D = 71.0° Az = 341.1° (USCGS) PV:1.5s 30.0nm MPV=5.2
8.	eP A	06 54 47.5	<u>Near East Coast of Kamchatka</u>
	LmH B	07 26	56.05°N 162.79°E
	LmV B	30	H = 06 43 32.3 h = 44 km MAG=4.9 (USCGS) D = 71.6° PV:1.4s 54.5nm LmH:16s 0.8/um MPV=5.5 MLH=5.1

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Day	Phase	h m s	Remarks
8.	eP A	08 43 17	<u>Near East Coast of Kamchatka</u>
	LmH B	09 14.5	56.18°N 162.68°E
	LmV B	(20)	H = 08 31 59.7 h = 24 km MAG=4.9 D = 70.9° Az = 341.0° (USCGS) PV:1.5s 40nm LmH:16s 0.77/um MPV=5.3 MLH=5.1
8.	LmH B	16 48.5	<u>Santa Cruz Islands</u> 12.19°S 166.50°E
	LmV B	49	H = 15 27 16.9 h = 40 km MAG=5.1 (USCGS) D = 136.6° LmH:20s 0.6/um LmV:20s 0.7/um MLH=5.3 MLV=5.4
9.	iP A	02 02 47.0	<u>Southern Iran</u> 27.71°N 54.47°E
	e A	03 07	H = 01 55 13.6 h = 17 km MAG=5.3
	e A	03 41	D = 39.6° Az = 317.2° (USCGS)
	ePP A	04 24	PV:1.9s 58.8nm PPV:1.9s 35.3nm
	eS C	08(48)	LmV:12s 0.6/um
	eSS C	11(45)	MPV=5.2 MPPV=4.7 MLV=4.7
9.	LmH B	(22)	
	LmV B	24.2	
	e(P) A	14 07 05	
9.	eP A	18 21 01	<u>Near West Coast of Columbia</u> 5.15°N 77.63°W
	eSKS C	31 27	H = 18 08 23.9 h = 40 km MAG=5.2
	eS C	31 36	D = 85.6° Az = 39.7° (USCGS)
	ePS B	32 40	PV:9s 0.5/um
	eSS C	37(10)	LmH:16s 0.6/um LmV:16s 0.6/um
	LmH B	19 06	MPV=5.7 MLH=5.1 MLV=5.1
	LmV B	06	i 21 05.0 e 21 11.5 e 21 18 e 21 26 e 24 31
9.	ePKP A	21 36 34	<u>New Hebrides Islands</u> 19.75°S 169.46°E
			H = 21 17 23.1 h = 204 km MAG=4.3 (USCGS) D = 144.5°
9.	e A	22 00 50	

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Day	Phase	h m s	Remarks
9.	e	A 23 22 21	
10.	LmH	C 09 19	<u>Honshu/Japan</u>
10.	ePKP	A 13 53 53	<u>Tonga Islands</u> 19.62°S 175.84°W
	e	A 54 04	H = 13 34 05.8 h = normal MAG=5.0
	e	A 54 15	D = 148.5° Az = 350.9° (USCGS)
	LmH	C 14 56	
10.	e	A 14 00 03	
	i	A 00 13.0	
	i	A 00 26.0	
10.	LmH	C 18 29	<u>Near East Coast of Kamchatka</u>
	LmV	C (33)	55.98°N 162.84°E
			H = 17 42 38.5 h = normal MAG=4.4 (USCGS)
			D = 71.3°
11.	eP	A 06 07 50	<u>Northern Celebes</u> 0.13°S 120.10°E
	ePP	A 12 03	H = 05 54 00.1 h = 23 km MAG=5.6 (USCGS)
	LmH	B 07 05.8	D = 101.8°
	LmV	B 05.8	LmH:17s 0.4 μm LmV:16s 0.5 μm
			MLH=4.8 MLV=5.1
11.	e	A 10 33 02	Explosion?
	e	A 33 06	
	e	A 33 29	
11.	e	A 11 19(10)	Explosion?
11.	+eP	A 11 26 50	<u>Iran-Iraq Border Region</u> 34.13°N 45.71°E
	+epP	A 26 56.5	H = 11 20 45.7 h = 34 km MAG=5.6
	ePPP	A 27 59.5	D = 29.8° Az = 314.1° (USCGS); h = 33 km
	ePoP	A 29 52	PV:2.0s 79.0nm SH:10s 1.0 μm
	eS	B 31 48	LmH:15s 2.7 μm LmV:14s 3.8 μm
	ISS	C 32 36	MPV=5.3 MSH=5.5 MLH=5.0 MLV=5.2
	LmH	B 41.8	e 27 02 e 27 37 ei 28 13
	LmV	B 42.8	

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Day	Phase	h m s	Remarks
11.	i(P)	A 12 39 16.0	
11.	+eP	A 16 21(00)	<u>South of Panama</u> 5.34°N 82.50°W
	eSKS	C 31 32	H = 16 08 06.1 h = 22 km MAG=5.3
	eS	C 31 48	D = 88.5° Az = 39.4° (USCGS)
	eSS	C 37(36)	LmH:22s 1.9 μm LmV:24s 2.3 μm
	LmH	B 53.5	MLH=5.5 MLV=5.5
	LmV	B 53.5	e 21 23 e 21 29
12.	e	A 03 36 31	
	e	A 36 47	
	e	A 37 04	
13.	e	A 06 49 23	
13.	e(P)	A 10 33 05.5	
13.	eSn	A 10 35 15.5	<u>Apennines/Italy</u> 44.7°N 9.1°E
	eSg	A 35 59	H = 10 32 37 (BCIS)
	eLg2	A 36 07	D = 6.2°
13.	iPg	A 14 06 51.5	<u>Explosion/GDR</u>
	iSg	A 07 07.6	D = 1.2°
13.	e	A 14 10 16	<u>Solomon Islands</u> 10.63°S 161.36°E
	eSKP	B 10 54	H = 13 48 11.7 h = 32 km MAG=5.7 (USCGS)
	ePPS	C 21.7	D = 133.0°
	eSS	C 27 20	LmH:17s 3.4 μm LmV:17s 3.5 μm
	LmH	B 15 13	MLH=6.1 MLV=6.1
	LmV	B 13	e 10 39 e 29 20
13.	e(P)	A 19 52 27	
	e	A 52 41	
	e	A 52 55	
13.	e(P)	A 23 27 06.5	
13.	e(P)	A 23 58 30	

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Day	Phase	h m s	Remarks
14.	e	A 11 08 17.5	
14.	eP epP LmH	A 12 16 39 A 16 50 C 48	<u>Rat Islands/Aleutian Is.</u> 52.08°N 175.45°E H = 12 04 50.7 h = 41 km MAG=5.1 D = 76.7° Az = 349.5° (USCGS); h = 43 km PV:1.3s 19.5nm pPV:1.1s 12.2nm
14.	e LmH LmV	A 13 38 22 C 14(26) C (26)	<u>Mindoro/Philippine Islands</u> 13.59°N 120.65°E H = 13 24 53.2 h = 38 km MAG=4.7 (USCGS) D = 91.2° The first onset of P is not detectable.
14.	ePS e eSS LmH LmV	C 14 33 08 C 33 50 C 38 20 B 15 08.2 B 08.2	<u>Prince Edward Islands Region</u> 43.44°S 39.13°E H = 14 06 48.3 h = normal MAG=5.3 (USCGS) D = 96.9° LmH:16s 1.4/um LmV:16s 1.6/um MLH=5.5 MLV=5.6
14.	eP e e	A 14 54 56 A 54 59.5 A 55 05	PV1:1.4s 15.2nm PV3:1.3s 19.5nm
14.	+IP e +l(pP) e	A 15 37 35.8 A 37 46.0 A 37 50.7 A 37 56	<u>Northern Sinkiang Prov./China</u> 44.57°N 81.49°E H = 15 29 15.0 h = normal MAG=5.0 D = 45.9° Az = 303.6° (USCGS); (h = 67 km) PV:1.0s 21.4nm MPV=5.2
14.	lPg e eSg	A 19 09 17.0 A 10 10 A 10 13	<u>Italy-Austria Border Region</u> 46.5°N 13.5°E H = 19 07 50 (BCIS) D = 4.4°
15.	eP epP	A 09 27 44.5 A 27 51	<u>Kodiak Island Region</u> 56.49°N 153.17°W H = 09 16 16.5 h = 8 km MAG=4.4 D = 72.5° Az = 10.1° (USCGS); h = 25 km

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Day	Phase	h m s	Remarks
15.	lPg lSn lSb lSg	A 14 35 11.0 A 35 37.7 A 35 46.5 A 35 59	<u>Northeastern Italy</u> 46 7/4°N 12 7/4°E H = 14 33 42 (BCIS) D = 4.4° e 35 54.5
15.	eP e i eS eSS LmH LmV	A 20 08 13 A 08 18 A 08 25.2 C 15 52 C 19(36) B 33.5 B 33.6	<u>Lake Baikal Region</u> 55.72°N 110.72°E H = 19 58 45.6 h = 32 km MAG=5.1 D = 54.6° Az = 309.6° (USCGS) PV:2.1s 91.0nm LmH:15s 1.4/um LmV:15.5s 1.5/um MPV=5.5 MLH=5.2 MLV=5.2 ei 08 35.5 e 20 14
16.	e e e	A 03 37 35 A 37 51 A 37 56	Explosion?
16.	e(P) e LmH	A 03 44 30 A 44 50 B 04 21.4	<u>Japan</u> 36.2°N 138.2°E H = 03 32 12.3 h = 38 km MAG=4.6 (USCGS) D = 81.4° LmH:12s 0.65/um MLH=5.2 AN USSR gives: Sichote Alin Mountains 44.9°N 135.0°E H = 03 33 24 h = 215 km
16.	ePP ePKS ePPS eSS LmH LmV	C 05 06(30) C 07(20) C 18.5 C 24.3 B 06 07.3 B 07.8	<u>Santa Cruz Islands</u> 11.30°S 165.68°E H = 04 44 27.3 h = normal MAG=5.3 (USCGS) D = 135.4° LmH:18s 0.75/um LmV:18s 0.64/um MLH=5.4 MLV=5.3
16.	LmH LmV	B 12 34.2 B 34.2	<u>Solomon Islands</u> 10.66°S 161.33°E H = 11 09 08.4 h = 40 km MAG=5.1 (USCGS) D = 133.1° LmH:18s 0.64/um LmV:18s 0.64/um MLH=5.4 MLV=5.4

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Day	Phase	h m s	Remarks
16.	+ePKIKP A	14 45 47	<u>Santa Cruz Islands</u> 11.22°S 165.71°E H = 14 26 22.9 h = 6 km MAG=5.3 D = 135.3° Az = 336.7° (USCGS) PV:1.4s 21.2nm LmH:16s 1.9/um LmV:18s 2.2/um MLH=5.9 MLV=5.9
	ePP B	48 24	
	ePKS C	49 18	
	eSS C	15 06.4	
	LmH B	44.2	
	LmV B	49.8	
16.	eP A	20 04 12	<u>Dodecanese Islands</u> 36.63°N 26.91°E H = 20 00 12.4 h = 158 km (USCGS) D = 17.8°
17.	e A	00 32 42	Explosion
	e A	32 43.5	
17.	-eP A	01 20 46	<u>Santiago del Estero Prov./Argentina</u> 27.41°S 63.28°W H = 01 07 54.3 h = 590 km MAG=5.5 D = 101.9° Az = 38.9° (USCGS); h = ca. 610 km PV:2.3s 100nm PPV:2.5s 350nm PSH:20s 1.9/um SSH:24s 1.4/um PPSH:26s 3.2/um (SKKP)V:2.0s 66.6nm MPV=5.8 MPPV=6.1 e 20 48.5 e 23 03 ei 23 06.5 e 24 09 e 27 13.5 e 33 09 e 39.1 e 42.1 The phase interpreted as (SKKP) is about 10 s earlier than the SKKP-onset must be after the travel time table. AN USSR gives: h = normal
	epP A	22 59	
	lPP A	25 03.0	
	epPP A	27 02	
	eSKS C	30 32	
	lPS C	34 35	
	esS C	35 30	
	lPPS C	37 02	
	e(SKKP) A	39 20.5	
	eSa(4.57)C	49(10)	
	17.	ePKIKP A	
e(PP) A		39 20.5	

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Day	Phase	h m s	Remarks
17.	ePKP A	03 40 09	<u>Fiji Islands Region</u> 20.18°S 177.77°W H = 03 21 18.3 h = 500 km MAG=4.6 D = 148.7° Az = 348.5° (USCGS)
17.	+iP A	12 11 44.5	<u>Near East Coast of Honshu/Japan</u> 38.29°N 142.07°E H = 11 59 31.5 h = 44 km MAG=5.9 D = 81.3° Az = 330.7° (USCGS); h = 46 km
	epP A	11 57	
17.	e A	16 18 23	
18.	e(Sg) A	04 19 58	Explosion?
	e A	20 12.5	
	e A	20 13	
18.	eP A	04 32 37	<u>Kurile Islands</u> 48.88°N 154.88°E H = 04 20 52.9 h = 40 km MAG=5.4 D = 76.0° Az = 336.9° (USCGS); (h = 23 km) PV:1.6s 30.2nm MPV=5.2
	e(pP) A	32 43	
18.	+eP A	05 44 28.5	<u>Eastern Russia</u> 56.64°N 120.84°E H = 05 34 32.6 h = 11 km MAG=6.1 (USCGS) D = 58.0° PV(A):2.0s 719nm PV(B):5s 3.8/um PPV:6s 1.5/um SH(A):3.4s 3700nm LmH:17s 103/um LmV:14s 52.8/um MPV(A)=6.5 MPV(B)=6.8 MPPV=6.4 MSH(A)=6.8 MLH=7.0 MLV=6.8 i 44 33.0 i 44 38.5 i 52 34 ei 03 50 ei 05 20 Clear higher mode surface waves.
	-iP B	44 28.5	
	i A	44 31.5	
	ePP B	46 34	
	ePa(8.26)C	47 34	
	i(PPP) B	47 50	
	eS C	52 23	
	iS C	52 32	
	iS A	52 32.1	
	LmH B	06 07.9	
	LmV B	11.2	
18.	eP A	06 33 25	<u>Kurilé Islands</u> 45.31°N 150.69°E H = 06 21 27.0 h = normal MAG=4.3 D = 78.1° Az = 334.8° (USCGS)

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Day	Phase	h m s	Remarks
18.	-1P	A 08 30 14.4	<u>Fox Islands/Aleutian Is.</u> 52.51°N 168.30°W H = 08 18 22.0 h = 37 km MAG=5.7
	+1P	B 30 15	D = 77.2° Az = 0.0° (USCGS)
	1	A 30 21.5	PV(A):1.3s 161nm SH(B):16s 0.7/um
	eS	BC 40 00	MPV(A)=6.0 MSH(B)=5.6
	1ScS	C 40 27	i 30 26.5 i 30 30.5
	eLQ	C 50.7	
18.	1P	A 08 40 58.0	<u>Hokkaido/Japan Region</u> 42.04°N 142.43°E H = 08 29 03.4 h = 65 km MAG=4.8 (USCGS) D = 78.0°
18.	ePKP	A 14 49 08	<u>Tonga Islands</u> 17.94°S 175.38°W H = 14 29 51.5 h = 226 km MAG=4.6 (USCGS) D = 146.6° PV:1.2s 20.6nm
18.	eP	A 15 39 38.5	<u>Kurile Islands</u> 47.35°N 152.06°E H = 15 28 02.7 h = 140 km MAG=4.8 D = 76.6° Az = 335.4° (USCGS)
18.	eP	A 21 59 01	<u>Mongolia</u> 48.13°N 102.92°E H = 21 49 25.8 h = normal MAG=5.2 (USCGS) D = 56.0°
	1	A 59 04.7	LmH:16s 2/um LmV:14s 2.2/um
	e	A 59 35	MLH=5.3 MLV=5.4
	ePP	A 22 01 06	
	LmH	B 20.5	
	LmV	B 25.3	
19.	eSg	A 04 37(18)	<u>France-GFR Border Region</u> 48.7°N 7.7°E H = 04 35 33 (BCIS) D = 3.2°
	e	A 37 26	
19.	ePKIKP	A 12 57 35	<u>Santa Cruz Islands</u> 11.83°S 166.44°E H = 12 38 31.3 h = 156 km MAG=5.5 D = 136.2° Az = 337.0° (USCGS); (h = 165 km)
	e	A 58 11.5	
	e(sPKIKP)	A 58 35	
19.	ePKP	A 12 59(45)	<u>Fiji Islands Region</u> 14.84°S 178.76°W H = 12 40 12.6 h = 18 km MAG=6.6 (USCGS) D = 143.5°
	1	B 59 52.5	
	e	B 13 03 54	

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Day	Phase	h m s	Remarks
cont.			
19.	1SS	B 13 21 36	LmH:22s 28.7/um LmV:22s 38.8/um
	1SS	C 21 38.5	MLH=6.9 MLV=7.1
	LmH	B 58.8	e 07 23 e 22(10)
	LmV	B 59.1	
19.	eP	A 14 50 05.5	<u>Off East Coast of Kamchatka</u> 55.32°N 163.15°E H = 14 38 44.6 h = normal MAG=4.5 (USCGS) D = 71.8°
19.	+eP	A 14 53 27.5	<u>Fox Islands/Aleutian Is.</u> 52.40°N 169.60°W H = 14 41 36.7 h = 55 km MAG=5.2 D = 77.3° Az = 359.2° (USCGS) PV1:1.0s 47.6nm PV2:1.1s 14.6nm PV3:1.0s 21.4nm MPV=5.6 If (PcP) was interpreted as pP then the focal depth would be h = 40 km.
	e	A 53 33.5	
	e(PcP)	A 53 38.0	
19.	eP	A 16 57 18	<u>Nevada</u> H = 16 45 00 (UPP) D = ca. 81.2° PV:1.1s 17.8nm MPV=5.1 Probably underground explosion.
19.	e	A 17 56 05.5	
19.	e	A 19 55 48	<u>Probably Caribbean Sea</u> 16.99°N 85.74°W H = 19 43 24.3 h = normal MAG=4.5 (USCGS) D = 81.7° The first onset of P must be about 8 s earlier.
20.	+1P1	A 02 06 59.0	<u>Mongolia</u> 48.00°N 102.94°E H = 01 57 23.1 h = normal MAG=6.1 (USCGS) D = 55.8°
	+1P2	AB 07(00)	
	-1	A 07 05.0	
	-1PP	A 09 02.5	PV1:1.0s 42.8nm PV2(A):(2.3s 2200nm)

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Day	Phase	h m s	Remarks
cont.			
20.	+1PP B	02 09 05	PV2(B):6s 12.5 μ m PH2(B):6.5s 7.5 μ m
	-ePPP B	10 14	PPV(B):5.5s 3.7 μ m PPPV(B):5.5s 4.7 μ m
	+1PPP A	10 18.3	LmH:13s 75.2 μ m LmV:13s 109 μ m
	eS C	14(40)	MPV1=5.5 MPV2(A)=6.9 MPV2(B)=7.2
	ISS C	18 40	MPH2(B)=7.3 MPPV(B)=6.7 MLH=7.0
	LmH B	32.8	MLV=7.2
	LmV B	33.8	Multiple P. P1 is much smaller than P2. It seems possible to interpret this as two shocks in the same focus. Compare Jan. 5 at 00 24.
20.	eP A	03 36 50	<u>Mongolia</u> 48.01 $^{\circ}$ N 103.00 $^{\circ}$ E H = 03 27 13.9 h = normal MAG=5.0 D = 55.9 $^{\circ}$ Az = 309.7 $^{\circ}$ (USCGS)
20.	eP A	03 38 22	<u>Mongolia</u> 47.78 $^{\circ}$ N 102.77 $^{\circ}$ E H = 03 28 44.8 h = normal MAG=5.1 (USCGS) D = 55.8 $^{\circ}$
20.	1P A	05 24 58.5	<u>West Pakistan</u> 32.25 $^{\circ}$ N 69.83 $^{\circ}$ E H = 05 16 39.8 h = 70 km MAG=5.1 (USCGS) D = 46.1 $^{\circ}$ AN USSR gives: h = normal
	e A	25 06.5	
	e A	25 11.5	
20.	eP A	06 32 52.5	<u>Mongolia</u> 47.94 $^{\circ}$ N 103.09 $^{\circ}$ E H = 06 23 16.3 h = normal MAG=5.0 D = 56.0 $^{\circ}$ Az = 309.8 $^{\circ}$ (USCGS)
	i A	32 54	
	e A	34 31	
	e A	34 52	PV2:1.1s 27.0nm
	ePP A	34 57.5	MPV2=5.3
20.	e A	11 32 05	Explosion?
	e A	32 17	
	e A	32 20	
20.	ePg A	11 43 17	<u>Explosion/GDR</u>
	ISg A	43 33.5	D = 1.2 $^{\circ}$

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Day	Phase	h m s	Remarks
20.	e A	12 02 37	Explosion?
	e A	02 43	
20.	e A	12 18 54	
20.	ePg A	12 53 05	<u>Explosion/GDR</u>
	i A	53 10	D = 1.2 $^{\circ}$
	i A	53 18	
	iSg A	53 21.0	
20.	1Pg A	14 21 54.0	Explosion
	iSg A	22 12.0	D = 1.4 $^{\circ}$
20.	e A	14 48 45	
20.	e A	17 41 05	Explosion?
	e A	41 10	
	e A	41 19	
20.	eP A	17 52 21	<u>Nevada</u> H = 17 40 00 (UPP) D = ca. 81 $^{\circ}$ Probably underground explosion.
21.	eP A	00 51 08	<u>Mongolia</u> 48.09 $^{\circ}$ N 102.92 $^{\circ}$ E H = 00 41 32.2 h = normal MAG=4.9 D = 55.8 $^{\circ}$ Az = 309.7 $^{\circ}$ (USCGS)
21.	ePKP A	03 13 39	<u>Easter Islands Cordillera</u> 49.79 $^{\circ}$ S 114.83 $^{\circ}$ W H = 02 54 00.8 h = normal MAG=5.3 (USCGS) D = 146.3 $^{\circ}$
	ei A	13 44.5	
	ei A	13 50	
	eSS C	36.2	PV1:1.1s 14.6nm PV2:1.3s 38.9nm
	eSSS C	41.2	PV3:2.2s 290nm
	LmH B	04 28.9	LmH:18s 1.9 μ m LmV:17s 2.4 μ m
	LmV B	30.1	MLH=5.8 MLV=6.0 Successive PKP-onsets with increasing amplitude.

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Day	Phase	h m s	Remarks
21.	ePKP2	A 14 08 44	<u>Kermadec Islands Region</u> 30.74°S 178.22°W H = 13 48 14.1 h = 65 km MAG=4.9 (USCGS) D = 158.8°
22.	e	A 04 36 45	Near earthquake?
	e	A 36 52	
	e	A 37 11.5	
22.	e	A 10 41(51)	<u>Fox Islands/Aleutian Is.</u> 53.52°N 165.31°W H = 10 30 03.0 h = 69 km MAG=5.0 D = 76.2° Az = 2.0° (USCGS) The first onset of P, which must be at 10 41 45 is not detectable.
	e	A 42 20	
22.	e	A 11 27 57	Near earthquake?
	e	A 28 12	
	e	A 28 43	
22.	-eP	A 12 11 25	<u>Mongolia</u> 48.09°N 102.86°E
	e	A 11 27.5	H = 12 01 49.0 h = normal MAG=5.1
	LmH	C 35.5	D = 55.7° Az = 309.6° (USCGS)
22.	eP	A 12 21 49.5	<u>Nicobar Islands Region</u> 8.82°N 93.73°E
	e	A 21 55	H = 12 09 52.3 h = 36 km MAG=4.9
	e	A 22 02.5	D = 78.2° Az = 319.9° (USCGS)
	e	A 22 21.5	AN USSR gives: Andaman Islands 13.8°N 96.0°E H = 12 10 09 h = normal MAG=5.0 D = 75.9°
22.	eP	A 12 25 38	<u>Mongolia</u> 48.01°N 102.90°E H = 12 16 02.0 h = normal MAG=5.0 D = 55.8° Az = 309.7° (USCGS)
22.	1P	A 19 31 41.5	<u>North of Ascension Island</u> 0.82°S 15.97°W H = 19 22 01.4 h = normal MAG=4.6 D = 56.4° Az = 20.7° (USCGS)
22.	e	A 21 18 25.5	

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Day	Phase	h m s	Remarks
22.	iPKP	A 21 54 11.8	<u>Tonga Islands</u> 16.53°S 173.83°W
	ei	A 54 45	H = 21 34 35.0 h = normal MAG=4.2 (USCGS) D = 145.7°
22.	ePKP	A 22 54 26	<u>Fiji Islands Region</u> 18.04°S 178.52°W
	epPKP	A 56 40	H = 22 35 50.6 h = 600 km MAG=4.5 (USCGS) D = 146.5° h = 600 km
22.	eP	A 23 20 52	<u>Taiwan Region</u> 21.83°N 121.76°E
	i	A 20 54.3	H = 23 08 17.4 h = 63 km MAG=4.9 (USCGS) D = 85.4°
23.	e	A 02 00 39.5	
23.	e	A 11 24 32	Explosion?
	e(Sg)	A 24 40	
23.	ePKP	A 11 29 45.5	<u>Kermadec Islands</u> 27.72°S 176.91°W
			H = 11 09 51.8 h = 60 km MAG=5.1 (USCGS) D = 156.1°
23.	e	A 14 40 27	Explosion?
	e	A 40 32	
	e	A 40 43	
23.	e(Sg)	A 15 38 09	
23.	eP	A 20 57 40	<u>North of Ascension Island</u> 1.64°S 15.64°W
	i	A 57 52.2	H = 20 47 56.7 h = normal MAG=5.1
	i	A 58 04.5	D = 57.1° Az = 20.3° (USCGS)
23.	eLQ	C 21 03.3	<u>Revilla Gigedo Islands Region</u>
	LmH	C (18)	19.92°N 109.34°W
	LmV	B 20.2	H = 20 25 38.3 h = 56 km MAG=5.3 (USCGS) D = 92.7° LmV:17s 0.5 μm MLV=5.1

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Day	Phase	h m s	Remarks
24.	+1P	A 03 17 35.0	<u>Hokkaido/Japan Region</u> 41.45°N 141.94°E H = 03 05 39.0 h = 69 km MAG=5.7
	epP	A 17 55	
	e	A 18 01	D = 78.5° Az = 330.3° (USCGS); h = 77 km
	e	A 18 51	PV:1.3s 77.7nm
	LmH	C 52	MPV=5.5
	LmV	B 55.2	e 20 05
24.	e	A 05 27 41	Probably near earthquake.
	e	A 28 35	
	e	A 28 47	
	e	A 29 16	
	e	A 29 35	
24.	eP1	A 09 39 04.5	<u>Central Mid-Atlantic Ridge</u> 0.58°S 21.04°W
	+1P2	A 39 17.5	H = 09 29 12.3 h = normal MAG=4.9
	ePP1	C 41(17)	D = 58.1° Az = 23.9° (USCGS)
	ePP2	C 41 28	PV1:1.2s 41.0nm PV2:1.3s 350nm
	e(Pa)	C 42 40	SH2:22s 33.4 μm
	eS1	B 47 10	LmH:15s 34 μm LmV:14s 44 μm
	IS2	B 47 22	MPV1=5.4 MPV2=6.3 MSH2=7.0 MLH=6.6
	eSS	B 51 08	MLV=6.8
	1(SS2)	C 51 16	e 42 45 e 42 58 e 54 20
	LmH	B 10 07.2	Multiple body wave onsets. Probably two
	LmV	B 10.5	shocks in the same area, the second larger than the first one.
24.	1P	A 14 56 20.8	<u>Szechwan Province/China</u> 30.12°N 104.12°E
	1	A 56 22	H = 14 45 16.0 h = normal MAG=5.4
	e	A 56 50	D = 68.8° Az = 317.0° (USCGS)
			PV2:1.8s 51nm
			MPV2=5.4
24.	e	A 15 57 02	
25.	+1P	A 01 58 04.5	<u>Afghanistan-USSR Border Region</u>
	+1P	B 58 05	36.64°N 71.63°E
	-1sP	AB 59 31.5	H = 01 50 19.4 h = 281 km MAG=5.7
	e1(PcP)	A 59 48	D = 44.4° Az = 308.0° (USCGS); h = 275 km
	1PP	B 59 53	PV(A):1.2s 656nm PH(A):1.2s 300nm

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Day	Phase	h m s	Remarks
cont.			
25.	1sPP	A 02 01 12.5	PV(B):4s 3.1 μm sPV(A):1.6s 425nm
	1sPP	B 01 15.5	SPV(B):4s 2.4 μm (PcP)V3:1.7s 278nm
	1S	B 04 16	PPV:10s 2.0 μm sPPV(B):10.5s 2.3 μm
	1sS	B 05 58	MPV(A)=5.8 MPH(A)=5.8 MPV(B)=6.0
	eScS	C 07 28	MPPV=6.0
	eSS	C 07(40)	e 01 29 e 01(53) e 04 00
			AN USSR gives: h = 270 km
25.	1PKP	A 04 31 42.0	<u>Fiji Islands Region</u> 20.16°S 178.52°W H = 04 12 58.8 h = 576 km MAG=4.0 (USCGS) D = 148.5°
25.	ePKIKP	A 07 50 19	<u>Fiji Islands Region</u> 20.6°S 178.4°W
	1PKHKP	A 50 23.7	H = 07 31 35.3 h = 517 km MAG=4.8 (USCGS)
	ePKP2	A 50 30.5	D = 149.0°
25.	e	A 08 03 05	Probably explosion.
	e(Sg)	A 03 23	
25.	ePKHKP	A 11 03 07.5	<u>Fiji Islands Region</u> 19.87°S 178.12°W
	1PKP2	A 03 12.0	H = 10 44 27.2 h = 599 km MAG=4.2 D = 148.3° Az = 348.2° (USCGS)
25.	e	A 20 16 25	Explosion (KHC)
	e	A 16 29	
	e	A 16 42.5	
25.	LmH	C 07 00	<u>Revilla Gigedo Islands</u> 21.38°N 108.91°W
	LmV	C 00	H = 06 04 33.9 h = normal MAG=5.3 (USCGS) D = 91.2°
26.	1Sg	A 10 46 18.5	<u>Explosion/GDR</u> 51.0°N 14.4°E
	e	A 46 33	D = 1.8°
26.	e(P)	A 10 49 54	
26.	1Pg	A 14 07 28.8	<u>Explosion/GDR</u> 51.37°N 12.89°E
	1Sg	A 07 44.8	D = 1.2°

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Day	Phase	h m s	Remarks
26.	e	A 14 29 57.5	
26.	eP	A 16 15 31.5	<u>Tunisia</u> 34.62°N 10.39°E
	e	A 15 50	H = 16 11 42.8 h = normal MAG=5.0
	LmH	B 21.9	D = 16.0° Az = 2.8° (USCGS)
	LmV	B (23)	LmH:16s 2.0 μ m MLH=4.4
			AN USSR gives: Africa 32.8°N 7.9°E
			H = 16 11 21 h = normal
			D = 18.0°
26.	eP	A 16 23 16	<u>Mexico-Guatemala Border Region</u>
	e	A 23 21	15.04°N 92.76°W
	e	A 23 47	H = 16 10 34.3 h = 56 km MAG=5.3 (USCGS)
	eS	C 33 48	D = 87.3°
	LmH	B 17 04.3	LmH:17s 1.5 μ m LmV:18s 1.9 μ m
	LmV	B 04.6	MLH=5.4 MLV=5.5
			e 24 06.5 e 24 22
27.	eP	A 08 21 42	<u>Central Mid-Atlantic Ridge</u> 0.89°N 28.14°W
	e	A 22 05	H = 08 11 36.5 h = normal MAG=4.7 (USCGS)
	e	A 22 30.5	D = 59.9°
	eS	C 29(55)	i 22 32.5 e 22 44
27.	e	A 10 27 14	
27.	ePKP	A 12 56 12	<u>Fiji Islands Region</u> 20.52°S 177.76°W
	i	A 57 27.0	H = 12 37 13.5 h = 440 km MAG=4.6 (USCGS)
			D = 149.0°
			PV:1.6s 22.8nm
28.	epP	A 01 53 07.5	<u>Taiwan</u> 24.79°N 121.83°E
	e	A 53 09	H = 01 40 26.9 h = 90 km MAG=5.2
			D = 83.0° Az = 323.0° (USCGS)
			pP is a clear onset in our short-period records. P seems to be much smaller and is not detectable.
			AN USSR gives: h = normal.

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Day	Phase	h m s	Remarks
28.	eP	A 03 07 05	<u>West Pakistan</u> 30.23°N 69.53°E
			H = 02 58 33.7 h = 39 km MAG=4.5
			D = 47.2° Az = 312.7° (USCGS)
28.	+eIP	A 14 04 49.5	<u>Fox Islands/Aleutian Is.</u> 52.40°N 169.54°W
	+iP	B 04 50.5	H = 13 52 58.3 h = 47 km MAG=5.9
	e	A 04 53.5	D = 77.3° Az = 359.2° (USCGS)
	iS	C 14 39	PV(A):1.0s 234nm PV(B):11s 14 μ m
	iSS	C 19 40	PH(B):12s 4.7 μ m
	ePKPPKP	A 32 20	LmH:20s 38.5 μ m LmV:16s 40 μ m
	LmH	B 43.0	MPV(A)=6.3 MPV(B)=7.0 MPH(B)=6.9
	LmV	B 48.4	MLH=6.7 MLV=6.8
			e 04 56.5 i 05 00 i 05 10.0 i 05 26.2
			e 09 20
28.	+eP	A 14 17 49.2	<u>Fox Islands/Aleutian Is.</u> 52.33°N 169.43°W
	e	A 17 54	H = 14 05 58.1 h = 54 km MAG=5.0
			D = 77.4° Az = 359.3° (USCGS)
			PV:1s 21.4nm
			MPV=5.2
28.	eP	A 14 19 05	<u>Aleutian Islands</u>
			H = 14 07 14 (UPP)
28.	+eP	A 14 35 18.5	<u>Fox Islands/Aleutian Is.</u> 52.43°N 169.41°W
	e	A 35 21	H = 14 23 26.7 h = 47 km MAG=5.2
	e	A 35 45	D = 77.3° Az = 359.3° (USCGS)
	e	A 36 13	PV1:1.1s 24.4nm PV2:1.1s 24.4nm
	e	A 38 35	MPV=5.2
28.	eP	A 14 42 17.5	<u>Fox Islands/Aleutian Is.</u> 52.49°N 169.42°W
	e	A 42 20.5	H = 14 30 24.2 h = normal MAG=4.9
	e	A 42 22.5	D = 77.2° Az = 359.3° (USCGS)
			PV:1.1s 24.4nm
			MPV=5.2
28.	eP	A 14 53 14	<u>Fox Islands/Aleutian Is.</u> 52.38°N 169.47°W
			H = 14 41 23.6 h = 59 km MAG=4.5 (USCGS)
			D = 77.5°

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Day	Phase	h m s	Remarks
28.	eP	A 15 01 28	<u>Fox Islands/Aleutian Is.</u> 52.30°N 169.33°W H = 14 49 35.7 h = 47 km MAG=4.1 (USCGS) D = 77.5°
28.	eP epP	A 16 43 15 A 43 25	<u>Fox Islands/Aleutian Is.</u> 52.34°N 169.35°W H = 16 31 21.1 h = 32 km MAG=5.6 D = 77.4° Az = 359.4° (USCGS) PV:1.4s 91.0nm MPV=5.7
28.	+eP epP esP e	A 17 31 25 A 31 37.5 A 31 42.5 A 31 48	<u>Fox Islands/Aleutian Is.</u> 52.28°N 169.52°W H = 17 19 32.7 h = 41 km MAG=4.7 D = 77.4° Az = 359.3° (USCGS); h = 47 km PV:1.3s 27.8nm pPV:1.2s 25.6nm sPV:1.5s 23.4nm MPV=5.2
28.	eP	A 17 38 27	<u>Fox Islands/Aleutian Is.</u> 52.32°N 169.43°W H = 17 26 32.8 h = 33 km MAG=4.3 D = 77.4° Az = 359.3° (USCGS) AN USSR gives: 53.9°N 170.7°W H = 17 26 43 h = normal D = 75.8°
28.	eP +iP -i ei epP esP eSS LmH LmV	A 17 53 52.5 B 53 53 A 53 54.0 A 53 55 A 54 05 A 54 09.5 C 18 08(45) B 32 B 32.5	<u>Fox Islands/Aleutian Is.</u> 52.40°N 169.41°W H = 17 42 01.5 h = 50 km MAG=5.6 D = 77.3° Az = 359.3° (USCGS); h = 47 km PV4:1.3s 122nm LmH:19s 2.3/μm LmV:17s 2.9/μm MPV4=5.9 MLH=5.5 MLV=5.6 e 53 59
28.	LmH LmV	B 18 39.8 B 42.4	LmH:19s 2.8/μm LmV:15s 2.4/μm
28.	iP	A 21 00 25	<u>Fox Islands/Aleutian Is.</u> 52.47°N 169.40°W H = 20 48 34.0 h = 47 km MAG=4.4 D = 77.3° Az = 359.3° (USCGS)

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Day	Phase	h m s	Remarks
28.	+iP bPcP -ipP	A 22 39 12.0 A 39 29.5 A 39 43.5	<u>Kamchatka</u> 55.03°N 160.21°E H = 22 28 01.2 h = 113 km MAG=5.1 D = 71.5° Az = 339.5° (USCGS); h = 130 km PV:1.0s 14.3nm MPV=4.7 AN USSR gives: East of Kamchatka 53.7°N 161.6°E H = 22 27 42 h = normal D = 73.0°
29.	+iPn iPg iSn eSg	A 00 13 04.6 A 13(14.5) A 13 43.0 A 13 55.5	<u>Austria</u> 47.89°N 14.29°E H = 00 12 13.6 h = 25 km MAG=4.6 D = 3.3° Az = 328.6° (USCGS)
29.	iP	A 04 01 41.5	<u>Southern Iran</u> 26.54°N 55.32°E H = 03 53 58.8 h = 42 km MAG=5.1 D = 41.0° Az = 317.9° (USCGS)
29.	eP	A 07 11 11	<u>Mongolia</u> 47.97°N 103.07°E H = 07 01 34.7 h = normal MAG=4.8 D = 55.9° Az = 309.8° (USCGS)
29.	eP	A 07 20 54	<u>Iran</u> H = 07 13 11 (UPP) D = ca. 41.2°
29.	eP e e e LmH LmV	A 07 21 21 A 21 23 A 21 34 A 21 40 C 39.3 B 43	<u>Iran</u> H = 07 13 38 (UPP) D = ca. 41.2° LmV:15s 1.1/μm MLV=4.8
29.	e(P) e	A 07 23 13 A 23 16	Iran? Probably a separated shock.
29.	eP e e	A 08 04 20 A 04 25 A 04 36	<u>Southern Iran</u> 26.53°N 55.16°E H = 07 56 39.2 h = 38 km MAG=5.2 D = 40.9° Az = 317.9° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
29.	e	A 08 04 55	SH:13s 1.75/um SSH:14s 1.9/um
	ePP	A 06(00)	LmH:16s 3.6/um LmV:15s 4.9/um
	eS	B 10 28	MSH=5.9 MLH=5.3 MLV=5.5
	eSS	C 13 38	e 06 30 e 06 37.5 e 06 46 e 07 11
	LmV	B 26.6	e 07 29 e 07 53
	LmH	B 27.3	Multiple P.
29.	e	A 08 10 04	
	e	A 10 13	
29.	e	A 08 11 34	
	e	A 12 31	
29.	eP	A 09 35 33	<u>Fox Islands/Aleutian Is.</u> 52.4°N 169.6°W H = 09 23 40.2 h = normal MAG=4.3 (USCGS) D = 77.4°
29.	ePKP	A 18 05 57	<u>Tonga Islands</u> 16.2°S 173.8°W
	e	A 06 05	H = 17 46 33.3 h = 134 km MAG=4.5 (USCGS)
	ipPKP	A 06 33.0	D = 145.4° h = 134 km
	esPKP	A 06 47	1 07 02
29.	eP	A 19 51 45	PV:1.8s 40.8nm
29.	e(Pg)	A 20 07 08	<u>Apennines/Italy</u> 44.6°N 10.1°E
	e	A 07 15	H = 20 05 10 (BCIS)
	eSn	A 07 44.5	D = 6.2°
	e(Sg)	A 08 30.5	e 07 12 e 07 46 e 07 48 e 07 50 e 08 25 e 08 34
29.	e(Sn)	A 20 47 27.5	<u>Northern Yugoslavia</u> 45.5°N 14.25°E
	e	A 47 30.5	H = 20 45 09 (BCIS)
	e(Sb)	A 47 50	D = 5.5°
	ISg	A 48 04.5	e 48 07
30.	IP	A 01 25 50.5	<u>Western Caucasus</u> 41.00°N 44.23°E
	i	A 25 51.5	H = 01 20 31.7 h = normal MAG=5.0
	e	A 25 58.5	D = 24.5° Az = 304.2° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
30.	iPP	A 01 26 20.5	LmH:15.5s 3.7/um LmV:13s 3.8/um
	eS	C 30(12)	MLH=5.0 MLV=5.1
	eLQ	C 31.0	AN USSR gives: Caucasus 40.1°N 43.7°E
	LmH	B 35.9	H = 01 20 26 h = normal MAG=5 1/4-5 1/2
	LmV	B 37.2	D = 24.6°
30.	e(P)	A 01 30 10	
30.	eiP	A 01 30 45	<u>Armenia</u> 41.0°N 44.2°E H = 01 25 27 (BCIS) D = 24.5°
30.	e(P)	A 01 36 16	
30.	iP	A 04 09 46	<u>Kazakh SSR</u> 50.0°N 78.0°E H = 04 02 00 (BCIS) D = 41.2° Underground explosion.
30.	eSg	A 05 08 23	<u>Austria</u> 47.9°N 14.2°E
	e	A 08 31.5	H = 05 06 39 (BCIS) D = 3.2°
30.	e(P)	A 06 28 28	
30.	e(P)	A 06 51 17	
	e	A 51 19	
30.	e(P)	A 07 20 00	
	e	A 20 35	
30.	eP	A 12 30 09.5	<u>Turkey</u> 39.26°N 41.26°E
	e	A 30 28	H = 12 25 00.6 h = normal MAG=4.8
	e	A 31 45	D = 23.7° Az = 308.4° (USCGS)
	eSS	C 35.1	
30.	e(P)	A 16 49 37	

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Day	Phase	h m s	Remarks
30.	1P	A 21 16 20.0	<u>Burma</u> 26.16°N 96.16°E
	i	A 16 22.5	H = 21 05 30.4 h = 44 km MAG=5.5
	l	A 16 25.0	D = 66.9° Az = 316.4° (USCGS)
	e	A 16 40.5	PV1:1.2s 20.5nm PV3:1.6s 45.5nm
	LmH	B 45.5	LmH:20s 0.45/um
	LmV	B (49)	MPV=5.2 MLH=4.7 Multiple P.
31.	eP	A 03 45 12.5	<u>Mongolia</u> 47.93°N 102.81°E
	e	A 45 30.5	H = 03 35 36.3 h = normal MAG=4.9
	LmH	C 04(09)	D = 55.8° Az = 309.7° (USCGS)
	LmV	B 11.3	PV:1.0s 16.7nm MPV=5.1
31.	e(P)	A 04 37 06	
31.	e(Sg)	A 10 24 50	Probably explosion.
31.	e	A 10 47 15	
	e	A 47 21	
31.	e	A 11 56 11	Explosion?
	e	A 56 29	
31.	eP	A 13 50 39	<u>Off Coast of Central America</u>
	epP	A 50 47	2.79°N 84.40°W
	eS	C 14 01.7	H = 13 37 34.3 h = normal MAG=5.3
	e(PS)	C 02.8	D = 91.7° Az = 39.3° (USCGS); h = 30 km
	eSS	C 08.0	PV:1.7s 30.4nm pPV:1.7s 43.5nm
	LmH	C 24.5	LmH:25s 0.8/um LmV:24s 0.7/um
	LmV	C (25)	MPV=5.3 MLH=5.1 MLV=5.0 e 51 07 e 51 18
31.	+1P	A 17 55 54.0	<u>Hokkaido/Japan Region</u> 42.84°N 145.35°E
	e(PcP)	A 56 04	H = 17 43 56.2 h = 44 km MAG=5.1
	LmV	B 18 31.8	D = 78.5° Az = 332.0° (USCGS)
	LmH	C 33.3	e 56 14.5 e 56 19

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Day	Phase	h m s	Remarks
31.	eP	A 19 08 02.	<u>Iran</u> 26.5°N 55.3°E
	e	A 08 09	H = 19 00 22.7 h = 16 km MAG=5.2 (USCGS)
	ei	A 08 50	D = 41.0°
	i	A 09 52.0	LmH:16s 0.4/um LmV:15s 0.55/um
	LmV	B 30.3	MLH=4.4 MLV=4.6
	LmH	B 31	
31.	LmH	C 21 52.5	<u>Taiwan Region</u> 24.0°N 121.6°E
	LmV	B 53	H = 20 58 13.9 h = 22 km MAG=4.9 (USCGS) D = 83.5° LmH:18s 0.4/um LmV:16s 0.45/um MLH=4.9 MLV=5.0

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Day	Phase	h m s	Remarks
1.	eP	A 01 15 03	<u>Southern Iran</u> 26.65°N 55.28°E
	e	A 15 24	H = 01 07 19.2 h = 19 km MAG=5.0
	eS	C 21 12	D = 40.9° Az = 317.8° (USCGS)
	eSS	C 24.2	PV:1.4s 21nm
	eScS	C 25 04	LmH:19s 1.2/um LmV:13s 0.9/um
	LmH	B 34.2	MPV=4.9 MLH=4.8 MLV=4.8
	LmV	B 37.1	e 15 28 e 24 24
1.	ei	A 03 50 18.5	
1.	e(P)	A 09 06 34	
1.	eP	A 09 29 54	<u>Kamchatka</u> 55.8°N 160.7°E
	epP	A 29 29	H = 09 18 50.5 h = 140 km MAG=4.4 (USCGS) D = 70.8° h = 145 km
1.	eP	A 15 33 16	<u>Southern Sumatra</u> 4.84°S 103.16°E
			H = 15 19 56.8 h = 33 km MAG=5.3 (USCGS) D = 94.8°
1.	e(P)	A 17 43 44	
2.	ePKIKP	A 06 44 17.5	<u>South Sandwich Islands Region</u>
	epPKIKP	A 44 40	57.94°S 25.65°W
	ePP	A 45 03	H = 06 25 49.8 h = 81 km MAG=5.8 (USCGS)
	eS	C 52 54	D = 112.3° h = 83 km
	ePS	B 54 36	LmH:19s 3.2/um LmV:18s 3.7/um
	eSS	C 07 00 44	MLH=5.9 MLV=6.0
	eSSS	C 04.6	e 55 10 e 09(00)
	eLQ	C 11.3	
	LmH	B 30.8	
	LmV	B 31.1	
2.	eP	A 07 46 08	<u>Southern Sinkiang Prov./China</u>
	+ipP	A 46 14.8	39.71°N 75.51°E
	e(PcP)	A 47 49	H = 07 37 54.9 h = 39 km MAG=5.3
	e	B 08 02 10	D = 45.0° Az = 306.1° (USCGS); h = 30 km
	eLg2	B 02 55	PV:1.6s 53nm pPV:1.6s 53nm
	e	B 04 35	LmH:12.5s 2.3/um LmV:14s 2.6/um

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Day	Phase	h m s	Remarks
cont.			
2.	LmH	B 08 06.4	MPV=5.3 MLH=5.3 MLV=5.4
	LmV	B 06.4	e 46 40 e 47 08.5 e 48 05 e 48 37 e 02 25 Well developed higher mode surface waves.
2.	e(P)	A 09 52 16	
2.	e	A 10 02 25	
2.	e	A 12 26 47	
2.	eP	A 16 36 17	<u>Hokkaido/Japan Region</u> 41.56°N 139.75°E
	ePcP	A 36 28	H = 16 24 39.1 h = 176 km MAG=5.4 (USCGS)
	eipP	A 37 02	D = 77.5° h = 186 km
	iS	B 45 52.5	PV:1.4s 30.2nm PcPV:1.0s 14.3nm
	eSS	B 50 44	pPV:1.2s 18nm SH:(8s) 1.3/um
	LmH	B 17(08)	MPV=4.8 MSH=6.0
	LmV	B (12)	e 36 41.5 e 36 47 e 37 17 e 38 57
2.	ePKIKP	A 18 36 47	<u>New Ireland Region</u> 4.34°S 153.73°E
			H = 18 18 17.4 h = 247 km MAG=5.0 (USCGS) D = 124.0°
			AN USSR gives: Solomon Islands 5.4°S 154.1°E
			H = 18 17 48 h = normal
3.	e	A 03 53 36	
	e	A 53 40.5	
	e	A 53 58	
3.	eP	A 08 29 20	<u>Honshu/Japan</u> 36.54°N 138.03°E
	e(pP)	A 29 31	H = 08 17 05.4 h = 26 km MAG=4.7
	e	A 29 51	D = 81.2° Az = 328.8° (USCGS); (h = 40 km)
	LmH	B 09 05.5	LmH:14s 1.1/um
	LmV	B 06	MLH=5.4
3.	e	A 09 38 24	

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Day	Phase	h m s	Remarks
3.	e(Sg)	A 11 01 02	Explosion?
3.	e	A 11 32 24.5	
3.	e	A 12 38 44	
3.	e	A 12 54 15	
3.	eP	A 13 00 57	<u>Java Sea</u> 5.62°S 110.54°E
	ePP	A 05 03.5	H = 12 48 09.2 h = 560 km MAG=5.4
	eS	C 11 40	D = 100.0° Az = 320.3° (USCGS)
	eSP	C 13.2	e 04 54 e 22 08
	e(sSP)	C 16 44	AN USSR gives: h = 512 km
	eSS	C 18 40	
	e(sSS)	C 21(52)	
4.	1P	A 14 27 13.5	
4.	ePP	A 18 06(00)	<u>Volcano Islands</u> 25.55°N 142.72°E
	e	A 06 28	H = 17 49 02.4 h = normal MAG=4.9 (USCGS)
	LmH	C 47.7	D = 92.8°
5.	eP	A 19 05 48	<u>Ascension Island Region</u> 5.45°S 11.36°W
	1pP	A 05 54.2	H = 18 55 45.1 h = 19 km MAG=5.2
	esP	A 05(58)	D = 59.3° Az = 16.8° (USCGS); h = 24 km
	e	A 06 06	PV:1.5s 30nm pPV:1.5s 33.4nm
	e	A 06 16	LmH:16s 0.6 μ m LmV:18s 1 μ m
	LmH	B 33	MPV=5.2 MLH=4.8 MLV=5.0
	LmV	B 33	e 06 24.5
6.	e(P)	A 00 31 07	
6.	1PKHKP	A 03 30 18.3	<u>South of Fiji Islands</u> 22.82°S 176.06°W
	e(pPKHKP)	A 30 54	H = 03 10 33.4 h = 90 km MAG=5.1 D = 151.6° Az = 349.7° (USCGS); (h = 130 km)
6.	eP	A 03 37 29	<u>Southern Alaska</u> 60.14°N 152.79°W
	e	A 37 38	H = 03 26 35.4 h = 110 km MAG=4.9

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Day	Phase	h m s	Remarks
cont.			
6.	1	A 03 37 49.0	D = 68.9° Az = 10.6° (USCGS); h = 102 km
	epP	A 37 54	PV:1.0s 19nm
	i	A 37 58.5	MPV=4.9 AN USSR gives: h = normal
6.	e	A 10 34 18.5	
6.	e(P)	A 14 38 47	
6.	eP	A 14 48 19.5	
7.	ePP	A 08 47 12.5	<u>Mariana Islands</u> 13.86°N 144.78°E
	e	A 47 28.5	H = 08 28 57.9 h = 138 km MAG=5.4 (USCGS)
	epPP	A 47 39	D = 103.9° h = ca. 110 km AN USSR gives: h = normal
7.	e	A 10 00 06	
	e	A 00 10	
7.	-eiP	A 15 04 36	<u>Alaska Peninsula</u> 56.69°N 157.18°W
	1	A 04 38.5	H = 14 53 13.9 h = 67 km MAG=5.6 (USCGS)
	e	A 04 45	D = 72.6° h = 67 km
	epP	A 04 53	PV:1.0s 52.5nm pPV:1.1s 39.0nm
	esP	A 05 00.5	MPV=5.6
7.	eP	A 19 51 41	<u>Off East Coast of Kamchatka</u>
	e	A 51 46	55.20°N 163.03°E
	e	A 51 57.5	H = 19 40 14.8 h = normal MAG=4.9 (USCGS) D = 71.8°
8.	ePKP	A 00 07 59.5	<u>Fiji Islands Region</u> 17.78°S 178.48°W
			H = 23 49 21.8 h = 571 km MAG=3.9 (USCGS) D = 146.2°
8.	e(Sg)	A 12 08 06	<u>Upper Silesia</u>
	e	A 08 10	
	e	A 08 15	

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Day	Phase	h m s	Remarks
8.	ePP	A 15 54(52)	<u>Southwestern Atlantic Ocean</u>
	e	A 55 07.5	58.27°S 12.97°W
	ePS	C 16 04.4	H = 15 35 42.8 h = normal MAG=5.1 (USCGS)
	eSS	C 10.2	D = 110.1°
	eLQ	C 20.2	LmH:20s 0.65/um LmV:20s 1.0/um
	LmH	B 41	MLH=5.2 MLV=5.4
	LmV	B 41	
8.	eiP	A 17 28 41	<u>Burma-India Border Region</u> 23.22°N 93.92°E
	i	A 28 48	H = 17 17 45.7 h = normal MAG=5.1
	e	A 29 02	D = 67.6° Az = 317.0° (USCGS)
	e	A 29 23	LmH:24s 0.45/um
	LmH	C 57	MLH=4.7
9.	e(Sg)	A 03 57 17	Near earthquake?
	e	A 57 29.5	
9.	e(Sg)	A 12 00 20	
9.	iPg	A 12 00 36.5	<u>Explosion/CSSR</u> 50.29°N 13.57°E
	iSg	A 00 56.5	D = 1.3° Yield: 5.8 t
9.	e(Sg)	A 12 02 08	<u>Rock burst/Upper Silesia</u>
	e	A 02 14	
	i	A 02 17.2	
9.	-eP1	A 14 11 14.5	<u>Greece-Albania Border Region</u>
	iP2	A 11 18.0	39.98°N 20.26°E
	eSS	C 13(45)	H = 14 08 18.7 h = 3 km MAG=5.6
	ei	C 14 15	D = 12.3° Az = 333.2° (USCGS)
	eLg1	B 14 40	PV1:1.2s 118nm PV2:0.9s 354nm
	eLg2	B 15 09	LmH:12s 25/um LmV:12s 21.4/um
	LmH	B 17.0	MLH=5.4 MLV=5.5
	LmV	B 17.3	i 11 29.2 ei 13 11 e 13(58) e 14 11 P is multiple. Clear higher mode surface waves.
9.	+iP	B 15 37 20	<u>Colombia</u> 2.85°N 74.89°W
	+eiP	A 37 20.2	H = 15 24 47.2 h = 58 km MAG=6.3

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Day	Phase	h m s	Remarks
cont.			
9.	eipP	A 15 37 37.3	D = 85.6° Az = 39.6° (USCGS); h = 65 km
	ipP	A 37 38.8	PV(B):12s 18/um PH(B):12s 10.8/um
	-iPP	B 40 33	PV(A):2.4s 910nm pPV2:2.7s 2220nm
	iS	B 47 46	PPV:14.5s 8.5/um SH:17.5s 57/um
	isS	B 48 15	SSH:15s 18.7/um
	iPS	B 48 54	LmH:20s 64/um LmV:20.5s 100/um
	iSPP	B 49 18	MPV(B)=7.1 MPH(B)=7.4 MPV(A)=6.5
	iSS	B 53 16	MPPV=7.0 MSH=7.5 MLH=7.0 MLV=7.2
	ePKPPKP	A 16 03 30	i 37 31.0 i 37 49.0 i 37 56.5 (PV:2.1s 682nm) ei 38 12 (PV:2.1s 835nm) i 48 42
	LmH	B 12.5	
	LmV	B 12.5	i 49 00 i 49 10
10.	ePg	A 05 04 59	<u>Apennines/Italy</u> 44 74°N 10 74°E
	iSn	A 05 34.0	H = 05 02 52 (BCIS)
	eiSg	A 06 18.5	D = 6.5°
	eLg2	A 06 28	e 06 05 e 06 24 e 06 31
10.	eP	A 06 00 00	<u>Southern Sinkiang Prov./China</u>
	epP	A 00 09	41.56°N 86.16°E H = 05 51 01.9 h = 23 km MAG=5.1 D = 50.4° Az = 307.2° (USCGS); h = 38 km PV:1.0s 9.5nm pPV:1.0s 9.5nm MPV=4.8
10.	e	A 06 50 01.5	<u>Austria</u> 47.7°N 16.0°E
	eiSg	A 50 04.5	H = 06 47 56 (BCIS)
	i	A 50 10.0	D = 4.1°
	iLg2	A 50 11.7	
10.	eP	A 06 54 34	<u>West of Svalbard</u> (UPP)
	e	A 54 38.5	
10.	iPg	A 07 59 44.5	Explosion
	iSg	A 59 58.5	D = 1.1°
10.	e	A 09 01 50	
	e	A 01 55	
	i	A 02 01.5	
	ei	A 02 06.5	

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Day	Phase	h m s	Remarks
10.	e	A 09 02 43.5	
10.	ePKIKP	A 11 48 15	<u>Banda Sea</u> 7.29°S 128.54°E
	e(PP)	A 49 17	H = 11 29 46.4 h = 27 km MAG=5.3 (USCGS)
	e	A 49 26	D = 112.5°
	e	C 12 13 40	
	eLQ	C 16.0	
10.	iPg	A 14 15 16.0	<u>Explosion/GDR</u> 51.37°N 12.89°E
	iSg	A 15 31.5	D = 1.2°
10.	e	A 16 26 47	Explosion?
	e	A 27 03	
11.	e	A 00 44 43	
	i	A 44 45.2	
11.	eP	A 02 51 25	<u>Off East Coast of Kamchatka</u>
	e	A 51 28.5	51.72°N 159.49°E
	e(pP)	A 51 36.5	H = 02 39 47.1 h = 21 km MAG=4.6
	e	A 51 43	D = 74.4° Az = 339.4° (USCGS); (h = 43 km) PV:1.2s 20.5nm MPV=5.1
11.	eP	A 09 37 03.5	<u>Lake Baikal Region</u> 52.01°N 106.23°E
	e	A 37 10	H = 09 27 29.6 h = 5 km MAG=5.4 (USCGS)
	ePcP	A 38 06.5	D = 54.8°
	e	A 38 10	PV1:1.2s 12.8nm PV2:1.1s 26.9nm
	LmH	B 10 03.6	LmH:13s 4.6 μ m LmV:13s 7.2 μ m
	LmV	B 03.7	MPV1=4.9 MPV2=5.3 MLH=5.8 MLV=6.0
11.	e(Sg)	A 13 01 07	
11.	eP	A 14 44 55.5	<u>Kurile Islands</u> 48.25°N 154.76°E
	LmH	C 15 19.8	H = 14 33 06.3 h = 26 km MAG=4.7 D = 76.5° Az = 336.9° (USCGS)

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Day	Phase	h m s	Remarks
11.	eIP	A 15 25 01	<u>Iran</u> 30.46°N 50.72°E
	LmH	C 45	H = 15 18 06.3 h = 42 km MAG=5.0 (USCGS) D = 35.3°
11.	iP	A 15 37 26.7	<u>Greenland Sea</u> 79.58°N 3.43°E
	i	A 37 29.8	H = 15 31 27.1 h = normal MAG=4.9
	ePP	A 38 23	D = 29.2° Az = 169.3° (USCGS)
12.	eP	A 06 30 24	
12.	e(S)	C 10 33.7	<u>North of Ascension Island</u> 2.10°S 12.30°W
	LmH	C 51	H = 10 16 13.5 h = normal MAG=4.8 (USCGS)
	LmV	B 51.5	D = 56.3° LmH:18s 0.6 μ m MLH=4.7
12.	eP	A 14 22 04.5	<u>Near Coast of Northern Chile</u>
	LmH	C 15 03.5	21.69°S 70.12°W H = 14 08 12.5 h = 18 km MAG=5.5 D = 101.4° Az = 40.0° (USCGS) LmH:24s 0.4 μ m MLH=4.9
12.	eP	A 16 14 51	<u>Hindu Kush Region</u> 35.76°N 70.99°E
	e	A 16 23	H = 16 06 47.8 h = 100 km MAG=5.2 (USCGS)
	ePP	A 16 38	D = 44.5° (h = ca. 120 km)
	e(pPP)	A 17(03)	AN USSR gives: h = 160 km
	e	A 18 11	
12.	e(P)	A 21 24 50.5	PV:1.4s 21.2nm
	e	A 24 58	
	e	A 25 04.5	
13.	eiP	A 10 19 25	<u>Fox Islands/Aleutian Is.</u> 52.49°N 169.61°W
			H = 10 07 34.5 h = 51 km MAG=4.5 (USCGS) D = 77.2°
13.	eiP	A 11 33 24	<u>Honshu/Japan</u> 36.25°N 139.72°E
			H = 11 21 08.4 h = 58 km MAG=4.9 (USCGS) D = 82.2°

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Day	Phase	h m s	Remarks
13.	eP A	11 42 44	<u>Kurile Islands Region</u> 43.95°N 148.36°E
	e A	43 05.5	H = 11 30 45.0 h = normal MAG=4.6 (USCGS) D = 78.6° PV:1.0s 19nm MPV=5.2
13.	ePP A	15 49 46	<u>New Ireland Region</u> 5.09°S 153.11°E H = 15 29 05.1 h = 57 km MAG=5.0 (USCGS) D = 124.3°
13.	eP A	17 17 12	<u>Kurile Islands</u> 43.56°N 147.42°E H = 17 05 10.3 h = 30 km MAG=4.7 (USCGS) D = 78.5°
13.	+iP1 A	23 20 13.0	<u>North Atlantic Ocean</u> 52.69°N 34.08°W
	+iP2 A	20 16.2	H = 23 14 19.6 h = 10 km MAG=5.5
	+iP2 C	20 16.4	D = 28.1° Az = 75.6° (USCGS)
	+iP3 B	20 19.5	PV1:1.0s 23.8nm PV2(A):2.4s 522nm
	iPP B	20 57.5	PV2(C):16s 11.3 μm PV3:5s 7 μm
	iS B	25 00	PLV:15s 14 μm PPV:12.5s 27 μm
	i B	26 10	PPH:12.5s 26.7 μm SH:15s 38.4 μm
	i(PoS) B	27 08	LmH:17s 388 μm LmV:13s 308 μm
	i B	28 15	MPV1=4.9 MPV2(A)=5.9 MPV3=7.0 MPLV=6.5
	i B	28 20	MPPV=7.0 MPPH=7.1 MSH=6.8 MLH=7.1
	LmH B	29.8	MLV=7.2
	LmV B	31.6	Successive P-onsets with increasing amplitude. In the registrations of the long-period seismographs long-period PL-waves (T = 12 - 16 s) are recorded, superimposed by shortperiod P-waves (T = 3 - 5 s).
14.	iP1 A	01 47 53.0	<u>Andaman Islands Region</u> 13.75°N 96.55°E
	iP2 A	47 57.5	H = 01 36 04.7 h = 27 km MAG=5.6
	iP3 A	48 00.2	D = 76.3° Az = 319.3° (USCGS)
	i(S) B	57 54	PV1:1.5s 53.4nm PV2:1.7s 152nm
	eSPP B	58 32	PV3:2.3s 1500nm (S)H:14.5s 7.6 μm
	eSSS B	02 06 20	LmH:18s 34.8 μm LmV:16s 36.0 μm
	LmH B	26.0	MPV1=5.4 MPV2=5.8 MPV3=6.7 MLH=6.7
	LmV B	30.2	MLV=6.8 Successive P-onsets with increasing amplitude.

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Day	Phase	h m s	Remarks
14.	iP A	01 51 11.8	<u>Andaman Islands</u> H = 01 39 25.1 (UPP)
14.	e(Sn) A	02 16 12	<u>Yugoslavia</u> 44.2°N 19.2°E
	eSg A	17 09.5	H = 02 12 37 (BCIS)
	e A	17 29	D = 8.3°
14.	ePKIKP A	05 20 55.5	<u>New Hebrides Islands Region</u>
	e(pPKIKP)A	23 27	13.25°S 171.32°E
	eSKP1 A	23 35.5	H = 05 02 38.4 h = 635 km MAG=5.6
	eSKP2 A	23 48	D = 139.2° Az = 340.2° (USCGS);
	ePP A	24 00	(h = 668 km)
	e(PKS) A	24 38	PV:1.8s 51nm SKP2V:1.6s 26.5nm e 22 37 e 25 28 SKP1 and SKP2 belong to different branches of the SKP travel time curve.
14.	eP A	14 45 15	
	e A	45 20	
	e A	45 24	
	e A	45 42	
14.	ePKP A	18 33 01	<u>Tonga Islands</u> 19.42°S 172.75°W
	epPKP A	33 10	H = 18 13 14.4 h = normal MAG=4.9 (USCGS)
	e A	33 34	D = 148.7° h = 32 km
15.	iP A	01 53 38.8	<u>Western Iran</u> 34.46°N 47.57°E
	i(PP) A	54 32.0	H = 01 47 27.7 h = 38 km MAG=5.0 (USCGS) D = 30.6°
15.	+eiP A	06 08 37.5	<u>Burma</u> 20.37°N 94.08°E
	-ipP A	08 40.8	H = 05 57 24.6 h = 10 km MAG=5.5
	-eiX A	08 52	D = 69.8° Az = 317.7° (USCGS); h = 12 km
	i A	08 57.5	PV:1.6s 68.1nm pPV:1.2s 30.6nm
	LmH C	37	XV:2.2s 158nm MPV=5.6 X is a clear phase in all records of our short-period vertical components. Another shock in the same focus? If this phase

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Day	Phase	h m s	Remarks
cont.			
15.			was interpreted as pP or sP, than the focal depth would be 56 km or 40 km respectively.
15.	e(P) A	06 49 06	
15.	e(P) A	07 03 30	
15.	ei(Sg) A	11 36 49	Explosion?
15.	i A	14 38 50.0	
15.	eiPg eSg A	15 05 30.5 05 51	Explosion/GFR 50.96°N 9.22°E H = 15 05 01.2 D = 1.6°
15.	-iP AB	16 23 20.5	Peru-Brazil Border Region 9.01°S 71.28°W
	i A	23 22.5	H = 16 11 11.8 h = 597 km MAG=6.2
	+epP B	25 31	D = 92.4° Az = 39.2° (USCGS); h = 600 km
	ePP C	27 16	PV(B):9s 5.3 μm PV1(A):2.4s 364nm
	iSKS B	33 00	PV2(A):1.8s 694nm pPV:(9s) 6.8 μm
	eS A	33 32	SKSH:10s 13 μm SH(B):8s 6.3 μm
	iS B	33 34	SPV:14.5s 11.5 μm SPH:17s 12.6 μm
	eiSP C	34 44	MPV(B)=6.6 MPV1(A)=6.0 MPV2(A)=6.4
	isSP C	38 24	MSH(B)=6.6
	isSS C	43 24	AN USSR gives: 8.4°S 76.3°W
	e B	47 12	H = 16 10 19 h = 174 km
	ePKPPKP A	48 38	D = 95.2°
	eSa(4.48)C	49.4	
15.	i(PKIKP) A	19 52 06.0	South of Fiji Islands 24.58°S 177.63°W
	e A	52 19	H = 19 32 21.0 h = 70 km MAG=4.9 (USCGS)
	e(PKP2) A	52 26	D = 152.9°
	e A	52 37	
15.	iP A	23 48 50.0	North Atlantic Ocean 52.65°N 33.94°W H = 23 42 55.9 h = normal MAG=4.4 (USCGS) D = 28.0°

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Day	Phase	h m s	Remarks
16.	i A	10 50 17.5	
17.	eP A	00 51 30	Talau Islands 4.44°N 125.58°E
	e A	51 39	H = 00 37 42.5 h = 66 km MAG=5.5 (USCGS)
	e A	52 17.5	D = 101.4°
	LmH C	01 39	
17.	-ePKIKP A	10 30 41	Tonga Islands Region 23.69°S 175.24°W
	e(pPKIKP)A	30 44.5	H = 10 10 51.5 h = 19 km MAG=6.4 (USCGS)
	ePKHKP A	30 48.5	D = 152.6° (h = 12 km)
	ei(pPKHKP)A	30 52.0	PV1:2.2s 324nm PV2:2.3s 600nm
	eiPKP2 A	31 00	PV3:1.7s 465nm PV4:1.9s 775nm
	ePP B	34 30	PV5:2.0s 613nm PPV:9s 2.3 μm
	eSKKS C	41 26	LmH:19s 12.2 μm LmV:19s 13.7 μm
	ePS C	44 47	MPPV=6.4 MLH=6.8 MLV=6.8
	ePPS C	47 40	i 31 05.0 i 31 10.5 i 31 27.0 i 31 44.5
	ePPPS C	49 25	i 35 15 e 38 48 i 55 40
	eSS C	54.0	
	eLQ C	11 11.5	
	LmH B	42.4	
	LmV B	42.4	
17.	iPg A	11 37 15.5	Explosion/GDR
	iSg A	37 31.5	D = 1.2°
17.	iPg A	13 00 23.5	Explosion/GDR 51.29°N 12.75°E
	iSg A	00 38	H = 13 00 00
	e A	00 52	D = 1.1°
17.	e A	17 38 35	
18.	i A	00 40 22	North Atlantic Ridge 28.95°N 43.42°W
	i A	41 26.0	H = 00 31 48.2 h = normal MAG=5.2 (USCGS) D = 46.3°
			P must be 10 s earlier than the first given onset.
18.	iPKIKP A	02 58 15.5	New Ireland Region 5.90°S 153.17°E
	ei A	58 18	H = 02 39 19.4 h = 41 km MAG=5.4

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Day	Phase	h m s	Remarks
cont.			
18.	ei(pPKP) A	02 58 30.5	D = 125.1° Az = 331.1° (USCGS); (h = ca. 45 km) e 00 33 The second onset is bigger than the first.
	e A	59 44	
	ePP A	03 00 07	
18.	iSg A	09 22 09.5	<u>Explosion/ČSSR</u> 50.18°N 14.40°E D = 1.8°
18.	e A	19 33 12	
18.	e A	20 32 26	
18.	e A	22 49 36.5	Explosion
	eiSg A	49 43	
19.	e A	01 58 44	
19.	eiP A	06 44 33	<u>Kurile Islands</u> 49.54°N 154.10°E H = 06 32 51.8 h = normal MAG=4.6 (USCGS) D = 75.1°
	ei A	46 54	
19.	i(P) A	12 54 08.0	
19.	ePKHKP A	14 41 43.5	<u>Tonga Islands</u> 21.70°S 174.93°W H = 14 21 52.8 h = normal MAG=4.4 D = 150.7° Az = 351.5° (USCGS)
	ePKP2 A	41 52	
	e A	42 11.5	
19.	ePKP A	19 45 13	<u>Tonga Islands</u> 18.89°S 174.02°W H = 19 25 26.7 h = normal MAG=4.5 (USCGS) D = 148.1°
	i A	45 22.0	
19.	-iP A	20 17 03.5	<u>Northern Sinkiang Prov./China</u> 42.02°N 83.55°E H = 20 08 20.9 h = normal MAG=5.1 D = 48.6° Az = 306.2° (USCGS) PV:1.4s 22.4nm MPV=5.0
	e A	17 10	

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Day	Phase	h m s	Remarks
19.	iP A	21 41 34.5	<u>Fox Islands/Aleutian Is.</u> 52.37°N 169.49°W H = 21 29 42.4 h = 48 km MAG=4.6 (USCGS) D = 77.4° (h = 38 km)
	i(pP) A	41 44.5	
19.	eiP A	22 28 33	<u>South of Java</u> 9.17°S 113.10°E H = 22 14 35.3 h = 80 km MAG=6.2 D = 104.3° Az = 319.9° (USCGS); (h = 33 km) PV2:1.5s 33.3nm t 28 52.3 i 28 57.8 e 29 22.5 (pP) is a clear phase and bigger than P.
	e(pP) A	28 42	
	ePP A	32(52)	
	eS C	40 10	
	eSS C	47 26	
19.	e A	22 31 38.	Near earthquake?
	e A	32 28	
	e A	35 41	
	i A	33 09.0	
19.	e(P) A	22 44 47	
	e A	44 53.5	
19.	eP A	23 42 22	<u>Molucca Sea</u> 0.03°S 124.17°E H = 23 28 28.0 h = 101 km MAG=5.7 (USCGS) D = 104.2° AN USSR gives: h = normal
	e A	42 46.5	
	ePP A	46 46	
	e A	47 04	
	e A	47 09.5	
20.	i A	03 13 51.0	
20.	+iP A	15 27 24.5	<u>Eastern Kashmir</u> 33.69°N 75.28°E H = 15 18 39.9 h = 24 km MAG=5.7 D = 48.6° Az = 310.5° (USCGS) PV:1.6s 116nm MPV=5.7 ei 28 34.5 ei 29 10
	i A	27 29.5	
	eiPcP A	28 47.5	
	e(PP) A	29 22	
	LmH C	52	
	LmV C	52	
20.	eP A	16 45 24	<u>Tschagos Archipelago Region</u> 5.20°S 68.68°E H = 16 33 49.2 h = normal MAG=4.8 (USCGS) D = 74.0°

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Day	Phase	h m s	Remarks
20.	e A	23 01 48	
22.	e A	02 18(27)	
	e A	18 42	
22.	eP A	15 02 20	<u>Kurile Islands</u> 48.29°N 154.72°E
	e A	02 37	H = 14 50 33.1 h = 45 km MAG=4.7 (USCGS) D = 76.3°
22.	+iPKP A	18 46 11.7	<u>New Hebrides Islands</u> 19.52°S 169.04°E
	ipPKP A	46 34.0	H = 18 26 46.7 h = 87 km MAG=5.6
	ePP A	49 32	D = 144.2° Az = 335.3° (USCGS); h = 80 km
	ei(SKP) A	49 43.3	PV1:1.3s 189nm PV2:1.3s 139nm
	eSS C	19 02.5	PPV:1.7s 47.8nm (SKP)V:2s 120nm
	eSSS C	08.4	MPPV=5.4
	LmH C	43.5	e 49 55 e 50 21 e 51 44
23.	ePKP A	06 18 20	<u>Tonga Islands</u> 21.61°S 174.44°W
	epPKP A	18 32	H = 05 58 28.5 h = 21 km MAG=4.8
	e A	18 46.5	D = 150.6° Az = 352.1° (USCGS); h = 43 km
23.	eP A	19 02 18	<u>Nevada</u>
	e A	02 27	H = 18 50 00 h = 702 m Yield: 200 kt (UPP) D = ca. 81.2° PV:1.2s 46.2nm MPV=5.5 Underground nuclear explosion.
23.	eP A	20 51 33.5	<u>Ryukyu Islands</u> 26.06°N 128.50°E
	epP A	51 41.5	H = 20 38 56.3 h = 30 km MAG=5.4
	eS C	21 02.0	D = 85.5° Az = 325.3° (USCGS); h = 30 km
	LmH1 B	27.5	PV:2.0s 155nm pPV:2.0s 155nm
	LmH2 B	35.0	LmH1:20s 4.0/um LmH2:15.5s 4.8/um
	LmV B	35.0	LmV:16s 5.4/um MPV=5.8 MLH1=5.8 MLH2=6.0 MLV=6.0
23.	iPn A	22 40 40.2	<u>Yugoslavia</u> 43.7°N 15.9°E
	e(Pg) A	41 13	H = 22 38 50 (BCIS)
	iSn A	42 04.5	D = 7.6°

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Day	Phase	h m s	Remarks
cont.			
23.	eiSg A	22 42 54	e 41 07 e 41 14 e 42 44
	eLg2 A	43 07	
24.	e(Pn) A	15 23 08.5	<u>Yugoslavia</u> (after Zagreb felt at Čapljina)
	e A	23 34	D = ca. 8.3°
	e A	24 04	
	e(Sn) A	24 40	
	e(Sg) A	25 37	
24.	ipP A	18 29 38.0	<u>Southern Alaska</u> 60.28°N 153.69°W
	i A	29 50.8	H = 18 18 10.5 h = 165 km MAG=4.0 (USCGS)
	i A	30 23.5	D = 68.7°
25.	i(P) A	00 00 32.0	
25.	e A	08 29 40.5	
	e A	30 09.5	
25.	eP A	11 34 44	<u>Northern Celebes</u> 0.04°S 123.93°E
	ePP A	39 06	H = 11 20 47.4 h = 70 km MAG=5.8 (USCGS)
	eSS C	54.0	D = 104.1°
	e(Sa) C	12 03.9	e 38 35.5 e 38 41.5 e 39 19 e 40 09
	LmH C	(42)	e 40 19 AN USSR gives: h = normal
25.	i A	11 50 34.6	
25.	iP A	11 52 40	<u>Northern Celebes</u> 0.11°S 123.93°E
	eipP A	53 07	H = 11 38 46.0 h = 105 km MAG=5.7 (USCGS)
	e A	56 28	D = 104.2° h = 104 km
	ePP A	56 58.5	e 57 35 e 58 14.5
25.	e A	12 02 14	
25.	eP A	12 06 42	
	e A	06 54	
	i A	07 10.0	

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Day	Phase	h m s	Remarks
26.	+iP	A 04 05 46.5	<u>Eastern Kazakh SSR</u> 49.78°N 78.12°E
	ePn	A 07 18.5	H = 03 57 57.7 h = 0 km MAG=6.0
	ePP	A 07 22	D = 41.3° Az = 297.7° (USCGS)
	LmH	C 20	PV:0.9s 305nm MPV=6.2 Underground explosion.
26.	iPKHKP	A 12 16 51.5	<u>South of Fiji Islands</u> 24.34°S 179.77°E
	i	A 16 56.0	H = 11 57 54.8 h = 535 km MAG=4.4 (USCGS) D = 152.1°
26.	e	A 15 31 32	
	e	A 31 40	
26.	eP	A 15 32 05.5	<u>Hindu Kush</u> 35.8°N 68.9°E
			H = 15 24 03 MAG=4.2 (AN USSR) D = 43.2°
27.	iP	A 02 19 12.3	<u>Colombia</u> 2.92°N 74.79°W
	e(pP)	A 19 34.5	H = 02 06 42.5 h = 69 km MAG=5.2 (USCGS)
	e	A 19 50	D = 85.5°
27.	ePKIKP	A 02 48 16	<u>Off Coast of Central Chile</u>
			38.30°S 74.67°W
			H = 02 29 34.8 h = normal MAG=4.9 (USCGS) D = 116.3°
27.	i	A 04 13 11.0	
	i	A 13 50.0	
27.	eP	A 21 03 29	<u>Rumania</u> 44.9°N 26.7°E
	ePP	A 03 38	H = 21 00 41 h = normal MAG=5
	ei	A 06 23	D = 11.6° (AN USSR)
	LmH	B 09.2	e 06 48 e 07 28 e 07 40
	LmV	B 10	
28.	eP	A 09 49 57.5	<u>South of Honshu/Japan</u> 32.65°N 141.66°E
	e(pP)	A 50 08	H = 09 37 18.0 h = 23 km MAG=5.5
	ePP	A 53 15	D = 86.1° Az = 330.8° (USCGS);

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Day	Phase	h m s	Remarks
cont.			
28.	iS	B 10 00 30	(h = 43 km)
	ePS	C 01.5	PV:2.0s 66.6nm SH:14s 1.7 μ m
	LmH	B 34.2	LmH:14s 3.7 μ m LmV:15s 4.6 μ m
	LmV	B 38.5	MPV=5.1 MSH=6.1 MLH=5.9 MLV=6.0 i 50 10.0 i 50 20.0 e 51 07
28.	i	A 11 26 54.0	
28.	eP	A 14 25 23.5	<u>Southern Greece</u> 37.45°N 21.29°E
	e	A 25 27	H = 14 21 53.5 h = 77 km MAG=4.6
	ePP	A 25 37	D = 14.9° Az = 335.4° (USCGS)
	e	A 26 07	PV:0.9s 19nm
	eiS	C 28 06	e 25 29 e 25 46.5 e 25 52.5 e 26 31.5
28.	eP	A 15 27 25	<u>Near East Coast of Kamchatka</u>
			53.12°N 159.92°E
			H = 15 15 56.0 h = normal MAG=4.6
			D = 73.2° Az = 339.5° (USCGS)
			PV:1.2s 15.4nm MPV=5.0
28.	e(P)	A 16 17 31	Explosion?
	e	A 17 35	
	e	A 17 42	

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Day	Phase	h m s	Remarks
1.	i(P)	A 03 45 38.5	
1.	ei(P)	A 09 11 25	
1.	eP	A 10 20 28	<u>Southern Iran</u> 28.29°N 57.10°E
	epP	A 20 34	H = 10 12 49.4 h = 39 km MAG=4.9 D = 40.8° Az = 316.0° (USCGS); h = 28 km AN USSR gives: 26.9°N 57.1°E H = 10 12 38 h = 23 km MAG=4.72 D = 41.8°
1.	e(P)	A 18 50 42	
1.	+eP	A 22 28 26.5	<u>Andreanof Is./Aleutian Is.</u> 51.35°N 179.33°W H = 22 16 30.4 h = normal MAG=5.3 D = 78.0° Az = 352.9° (USCGS) PV:1.2s 18.0nm MPV=5.1
2.	-iP	A 03 00 21.0	<u>Ecuador</u> 0.29°S 78.65°W
	e	A 00 28.5	H = 02 47 31.7 h = 121 km MAG=5.8
	l(pP)	A 00 43.5	D = 90.4° Az = 39.5° (USCGS); (h = 85 km)
	e(sP)	A 00 54	PV:1.8s 56.0nm MPV=5.4 AN USSR gives: H = 02 47 22 h = normal
2.	e	A 06 17 07.5	
2.	e	A 09 56 43	Explosion?
2.	lPg	A 14 09 34.0	Explosion
	lSg	A 09 50.0	D = 1.2°
2.	eSg	A 15 27 02	Explosion
2.	eP	A 20 59 14	<u>Off East Coast of Kamchatka</u>
	e	A 59 22	52.39°N 160.53°E
	epP	A 59 24	H = 20 47 37.6 h = 18 km MAG=4.6 (USCGS)

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Day	Phase	h m s	Remarks
cont.			
2.	LmH	B 21 38	D = 74.0° h = 38 km PV:1.1s 14.6nm MPV=5.0
2.	eiP	A 23 15 07.5	<u>Near East Coast of Kamchatka</u>
	i	A 15 09.2	53.75°N 160.54°E
	epP	A 15 26	H = 23 03 39.7 h = 21 km MAG=5.0 (USCGS)
	i	A 15 34.8	D = 72.7° h = 74 km
	i	A 15 49.5	PV1:1.0s 16.7nm PV2:1.2s 64.1nm
	ei	A 16 05	pPV:1.0s 19.0nm
	LmH	C 50.5	MPV1=5.1 MPV2=5.6 AN USSR gives: h = 77 km
3.	e	A 01 36 39	
3.	eP	A 06 00 28.5	<u>Chagos Archipelago Region</u> 5.28°S 68.51°E
	epP	A 00 36.5	H = 05 48 54.8 h = 35 km MAG=4.8 D = 74.0° Az = 326.3° (USCGS); h = 30 km
3.	eiPKP	A 13 05 40	<u>South of Australia</u> 50.34°S 139.81°E H = 12 45 54.9 h = 12 km MAG=5.1 (USCGS) D = 147.5°
3.	ei	A 15 00 12.5	
4.	e	A 00 02 55	<u>Apennines/Italy</u> 43.8°N 12.8°E
	e	A 03 12	H = 00 00 22 (BCIS)
	i(Sn)	A 03 23.5	D = 7.0°
	eSg	A 04 12	e 02 57 i 03 27.5 e 03 51.5 e 04 15
4.	+eP	A 05 21 49	<u>Taiwan Region</u> 21.40°N 121.77°E
	e(pP)	A 22 22	H = 05 09 24.2 h = 134 km MAG=5.5
	i	A 22 30.5	D = 85.7° Az = 323.2° (USCGS); (h = 136 km)
	ei	A 22 33	
	ei	A 22 47	PV:1.8s 107nm
	ei	A 23 06.5	LmH:18s 1.9 μ m
	eS	C 32 07	MPV=5.4
	eSP	C 33(02)	AN USSR gives: h = 106 km, UPP: h = 170 km.

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Day	Phase	h m s	Remarks
cont.			
4.	e(SPP)	C 05 33 30	If we interpret i 22 30.5 as ipP, the focal depth will be $h = 170$ km. This would coincide with the focal depth given from Uppsala (UPP) with the aid of pP-readings of Swedish stations.
	e(PPS)	C 33 42	
	LmH	B 06 03.7	
	LmV	B 07	
4.	+iPKIKP	A 06 35 38.8	<u>Tonga Islands</u> 18.49°S 175.45°W H = 06 16 21.9 $h = 225$ km MAG=5.7 D = 147.4° Az = 351.6° (USCGS); $h = \text{ca. } 235$ km PV1:1.8s 82nm PV2:1.8s 475nm PV3:2.0s 187nm AN USSR gives: 18.4°S 174.6°W H = 06 15 59 $h = \text{normal}$ MAG=5.7/2 D = 147.4° e 36 56 e 37 36
	+iPKHKP	A 35 41.0	
	eipPKP	A 36 41	
	ePP	A 39 06	
	eSS	C 57(40)	
	esSS	B 59 07	
	eSSS	B 07 03 20	
	esSSS	B 04 48	
	eLQ	C 15	
4.	e(Sg)	A 11 51 04.5	Explosion?
4.	eP	A 15 11 33	<u>Fox Islands/Aleutian Is.</u> 52.05°N 170.48°W H = 14 59 39.2 $h = 42$ km MAG=4.3 (USCGS) D = 77.6°
	e	A 11 41	
	e	A 11 54	
4.	-1P	B 18 01 32.0	<u>Aegean Sea</u> 39.24°N 24.64°E H = 17 58 06.4 $h = \text{normal}$ MAG=5.9 D = 14.6° Az = 325.4° (USCGS) PV:8s 37 μm PH:8s 35.3 μm PV1:2.0s 327nm PV2:1.5s 580nm LmH:10.5s 390 μm LmV:14s 440 μm MLH=6.8 MLV=6.9 i 01 39.5 i 01 45.8 i 01 48 i 04 25 e 04 28 i 05 32 i 05 50 Multiple P. Well developed higher mode surface waves.
	-eP1	A 01 32	
	-1P2	A 01 36.0	
	iS	C 04 11	
	eSS	B 04 42	
	i(SSS)	B 04 57	
	iLg1	B 05 42	
	iLg2	B 06 08	
	iRg	B 06 56	
	LmH	B 07.9	
	LmV	B 09.6	
4.	eP	A 18 41 34.5	<u>Aegean Sea</u> 39.02°N 24.73°E H = 18 38 02.8 $h = 35$ km MAG=4.4 (USCGS) D = 14.9°
	e	A 41 40	
	e	A 41 44	

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Day	Phase	h m s	Remarks
4.	e(P)	A 18 42 11	
	e	A 42 19	
	e	A 42 35.5	
4.	e(P)	A 18 46 19	
	e	A 46 31.5	
4.	eiP	A 18 49 32	
4.	LmH	C 21 16	Probably Bonin Islands Region
4.	LmH	C 23 37	Probably Caroline Islands Region
5.	e(P)	A 01 03(11)	<u>Aegean Sea</u> 39.0°N 24 74°E H = 00 59 38 (BCIS) D = 14.9° The first onset is doubtful.
	e	A 03 14	
	e	A 03 17	
5.	e(P)	A 02 42 38	
5.	e	A 03 03 09	
	e	A 03 20	
5.	eiP	A 10 07 08	<u>Kurile Islands</u> 46.8°N 152.7°E H = 09 55 15.4 $h = \text{normal}$ MAG=4.4 (USCGS) D = 77.2°
	e	A 07 29	
5.	e(P)	A 11 43 38	
	e	A 43 45	
	e	A 43 49	
5.	eP	A 17 25 32	<u>Rumania</u> 45.8°N 26.8°E H = 17 22 54.1 $h = 130$ km MAG=4.4 D = 11.2° Az = 301.2° (USCGS)
	e(PP)	A 25 40	
	e(PPP)	A 25 47.5	
	ei	A 26 56	
6.	ePg	A 02 34 02	<u>Alps</u> 47 72°N 14 74°E H = 02 32 43 (BCIS) D = 3.7°
	eSg	A 34 44	
	e	A 34 50	
	e	A 34 56	

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Day	Phase	h m s	Remarks
6.	eP	A 04 52 07	<u>South of Honshu/Japan</u> 30.55°N 137.61°E
	epP	A 54 01	H = 04 40 17.8 h = 490 km MAG=5.1
	e	A 54 27.5	D = 86.1° Az = 328.9° (USCGS); h = 523 km
	e(pPP)	A 57 25	PV:2.0s 93.5nm MPV=5.1 AN USSR gives: 31.2°N 137.6°E H = 04 40 26 h = 550 km D = 85.5°
6.	e	A 05 00 31.5	
6.	ePKIKP	A 08 31 20	<u>South of Fiji Islands</u> 22.72°S 177.48°W
	-iPKHKP	A 31 26.0	H = 08 11 58.8 h = 227 km MAG=4.7 (USCGS)
	ei	A 31 30	D = 151.0°
	+iPKP2	A 31 34.5	PV2:1.0s 52.5nm PV4:1.0s 21.4nm
	ei	A 31 39	AN USSR gives: 19.1°S 174.5°E
i	A 31 50.2	H = 08 11 52 h = normal D = 145.7°	
6.	eP	A 11 41 12.5	<u>Off W. Coast of Northern Sumatra</u>
	epP	A 41 29.5	3.74°N 95.82°E H = 11 28 49.4 h = 57 km MAG=5.1 D = 83.4° Az = 320.4° (USCGS); h = 65 km
6.	e	A 11 48 23	
6.	iP	A 11 48 32.0	<u>Fox Islands/Aleutian Is.</u> 52.41°N 169.59°W
	e	A 48 35	H = 11 36 37.0 h = 12 km MAG=3.9 (USCGS) D = 77.2°
6.	e	A 18 32 25	<u>Rock burst/Kladnov, CSSR</u>
	e(Sg)	A 32 32	
	e	A 32 35	
6.	e	A 19 49 13	
7.	e(Sg)	A 02 41 13.5	Explosion?
7.	eP	A 04 40 28	

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Day	Phase	h m s	Remarks
7.	iPn	A 08 02 35	<u>Yugoslavia</u> 43.27°N 17.68°E
	e	A 02 39	H = 08 00 32.2 h = normal MAG=4.2
	eSn	A 04 06	D = 8.5° Az = 332.8° (USCGS)
	e	A 04 36	AN USSR gives: Adriatic Sea 42.2°N 15.9°E
	ei	A 04 51	H = 08 00 27 h = 116 km
	i	A 05 08.0	D = 8.9°
7.	iPg	A 14 03 21.8	Explosion
	eiSg	A 03 38	D = 1.2°
	LmH	A 03 55	i 03 22.6 i 03 37.4
LmV	A 03 55		
7.	e	A 14 11 21.5	Explosion?
	e	A 11 24	
	e	A 11 25.5	
8.	e(P)	A 03 23 01.5	
8.	i(P)	A 04 19 06.5	
	e	A 19 08	
8.	e	A 08 06 19	Explosion
	eiSg	A 06 32	
8.	e	A 12 41 35	
8.	ei	A 20 41 36	Explosion?
	e	A 41 40	
	e	A 41(50)	
	e	A 42 04	
8.	e(P)	A 22 04 45.5	
	e	A 04 52.5	
	e	A 04 56.5	
8.	ePKIKP	A 22 33 13	<u>New Hebrides Islands</u> 15.61°S 167.63°E H = 22 13 56.8 h = 132 km MAG=4.5 D = 140.1° Az = 336.2° (USCGS)

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Day	Phase	h m s	Remarks
8.	ePKP A	23 26 39	<u>Fiji Islands Region</u> 17.62°S 177.01°W
	e A	26 49	H = 23 07 15.7 h = 182 km MAG=4.2 D = 146.3° Az = 350.1° (USCGS)
9.	LmH C	07(08)	<u>Santa Cruz Islands</u>
9.	ePKP B	07 18(00)	<u>Santa Cruz Islands</u> 10.64°S 166.30°E
	eiPP B	20 30	H = 06 58 35.7 h = 30 km MAG=6.0
	iSKP B	21 20	D = 135.0° Az = 337.4° (USCGS)
	eiPKS B	21 32	PV:10s 1.1/um PPV:8s 2.6/um
	eSS C	38.5	SKPV:10s 1.8/um
	eSSP C	39.0	LmH:16s 3.1/um LmV:20s 4.4/um
	eSSS C	43.6	MPPV=6.4 MLH=6.2 MLV=6.2
	LmH B	08 11.0	PKIKP must be about 8 s earlier than the
	LmV B	24.7	first given PKP-onset.
	9.	LmH B	09 06
LmV B		07.5	H = 07 50 57.6 h = normal MAG=5.1 (USCGS) D = 135.2° LmV:17s 1.2/um MLV=5.7
9.	e(P) A	17 53 41	
9.	ePKP A	18 18 09.5	<u>Tonga Islands</u> 15.54°S 175.48°W
			H = 17 58 33.2 h = 95 km MAG=4.3 (USCGS) D = 143.5°
9.	ePP B	18 24 33	<u>Santa Cruz Islands</u> 10.70°S 166.31°E
	ePP C	24 36	H = 18 02 45.7 h = 59 km MAG=6.4 (USCGS)
	eSKP C	25(30)	D = 135.1°
	i(SKP) B	25 36	PPV:7.5s 1.4/um SKPV:8s 1.0/um
	eSS C	42.5	LmH:19s 1.3/um LmV:19s 2.1/um
	e C	43.3	MPPV=6.1 MLH=5.7 MLV=5.9
	eSSS C	47.5	
	LmH B	19 28.8	
	LmV B	28.8	
	9.	e A	20 08 48.5
e A		09 27.5	

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Day	Phase	h m s	Remarks
9.	eP A	21 06 40	
9.	LmV B	21 18.1	<u>North Atlantic Ocean</u> 55.84°N 34.33°W
	LmH B	18.3	H = 20 59 42.6 h = normal MAG=4.4 (USCGS) D = 27.5° LmH:13.5s 1.6/um LmV:12s 2.1/um MLH=4.8 MLV=5.0
9.	eP A	21 28 34	<u>North Atlantic Ocean</u> 56.07°N 34.42°W
	e A	28 40	H = 21 22 48.9 h = normal MAG=4.9 (USCGS)
	LmH B	41.4	D = 27.6° Az = 81.8° (USCGS)
	LmV B	41.4	LmH:14.5s 1.8/um LmV:13.5s 2.3/um MLH=4.8 MLV=5.0
9.	e A	21 30 39	
	e A	30 49	
9.	ei A	21 31 47.5	
9.	iPKHKP A	21 44 55.5	<u>Fiji Islands Region</u> 21.53°S 176.32°W
			H = 21 25 34.6 h = 283 km MAG=4.8 D = 150.3° Az = 349.8° (USCGS) PV:1.0s 33.4nm
10.	eP A	00 43 15	<u>Bonin Islands Region</u> 28.72°N 138.66°E
	ePP A	46 52	H = 00 31 17.0 h = 490 km MAG=5.1 D = 88.2° Az = 329.4° (USCGS) AN USSR gives: h = 575 km
10.	LmH B	02(00)	<u>North Atlantic Ocean</u> 56.13°N 34.68°W
	LmV B	02.3	H = 01 43 55.6 h = normal MAG=4.7 (USCGS) D = 27.5° LmV:13s 0.7/um MLV=4.5
10.	e(PKP2) A	06 52 53	<u>South of Fiji Islands</u> 23.00°S 179.72°W
	e A	53 08	H = 06 33 53.3 h = 551 km MAG=4.2 (USCGS) D = 151.0°

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Day	Phase	h m s	Remarks
10.	e(P)	A 11 01 09	
10.	e(P)	A 11 21 49	
10.	LmH	C 11 30.1	Probably North Atlantic Ocean
10.	e	A 13 48 17	
10.	eP	A 14 28 18	<u>Near S. Coast of Honshu/Japan</u> 34.40°N 137.63°E H = 14 16 26.8 h = 331 km MAG=4.5 D = 82.9° Az = 328.7° (USCGS)
10.	eP	A 20 52(24)	<u>North Atlantic Ocean</u> 55.94°N 34.59°W
	e	A 52 27.5	H = 20 46 33.6 h = normal MAG=4.7 (USCGS) D = 27.8°
11.	iP	A 06 38 56.6	<u>Hindu Kush Region</u> 36.39°N 70.75°E
	epP	A 39 43	H = 06 31 09.0 h = 220 km MAG=5.0 (USCGS)
	esP	A 40 08	D = 44.0° h = 222 km
	iPP	A 40 37.0	e 38 59.5 e 41 53
11.	ePP	A 08 55 18	<u>Santa Cruz Islands</u> 10.67°S 166.20°E
	e(pPP)	A 55 29	H = 08 33 27.4 h = 49 km MAG=6.1 (USCGS) D = 135.1° (h = ca. 40 km)
11.	e	A 12 04 56	Explosion?
	e(Sg)	A 05 11	
11.	eP	A 14 57 39	<u>Vera Cruz/Mexico</u> 19.08°N 95.83°W
	e	A 57 44.5	H = 14 44 59.2 h = 33 km MAG=5.5 (USCGS)
	i	A 57 50.0	D = 86.0° (h = 50 km)
	i(pP)	A 57 52.5	PV1:1.8s 143nm PV2:1.6s 49.2nm
	ePP	A 15 00 58	PV3:1.6s 49.2nm PV4:1.8s 117nm
	e	A 01 16	MPV=5.8
	e	A 01 22	AN USSR gives: 20.8°N 96.0°W
	e	A 01 25	H = 14 45 44 h = 360 km
	e	A 01 47	D = 84.7°

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Day	Phase	h m s	Remarks
11.	eP	A 17 07 26	<u>India-China Border Region</u>
	e(pP)	A 07 30	28.36°N 94.40°E
	e	A 07 39	H = 16 56 48.7 h = 7 km MAG=5.3
	e	A 07 49.5	D = 64.2° Az = 315.9° (USCGS); (h = 15 km) PV:1.5s 40.0nm MPV=5.4
11.	eP	A 19 45 35	<u>Red Sea</u> 19.65°N 38.86°E
	e(pP)	A 45 39	H = 19 38 21.5 h = normal MAG=5.2 D = 37.7° Az = 331.5° (USCGS); (h = 19 km)
12.	eP	A 03 03 51	<u>Hokkaido/Japan Region</u> 42.58°N 143.04°E
	i(pP)	A 03 56.0	H = 02 51 54.7 h = normal MAG=5.3
	e	A 04 26	D = 77.9° Az = 330.8° (USCGS); (h = 19 km)
	e	A 06 35	PV1:1.6s 35.6nm PV2:1.5s 46.6nm
	ePP	A 06 47	MPV=5.2 AN USSR gives: h = 132 km
12.	e(Sg)	A 06 49 28	Probably explosion.
	e	A 49 35	
12.	e	A 06 58 50	
12.	e	A 06 59 30	Explosion?
12.	eP	A 21 51 46	<u>Red Sea</u> 19.71°N 38.89°E
	e	A 51 50	H = 21 44 32.8 h = normal D = 37.7° Az = 331.5° (USCGS)
13.	LmH	C 06 05.5	<u>Bismarck Sea</u> 3.17°S 147.60°E
	LmV	C 05.5	H = 04 53 30.0 h = normal MAG=4.9 (USCGS) D = 119.9° LmH:20s 0.8 μ m LmV:(20s 1.2 μ m) MLH=5.4 (MLV=5.5)
13.	eP	A 07 35 18.5	<u>Red Sea</u> 19.66°N 38.82°E
	ei(pP)	A 35 29	H = 07 28 05.7 h = 41 km MAG=5.3
	e	A 35 43	D = 37.7° Az = 331.6° (USCGS); (h = 50 km) PV:1.8s 75.0nm MPV=5.3

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Day	Phase	h m s	Remarks
13.	iPKHKP A	07 56 20.0	<u>Fiji Islands Region</u> 20.58°S 178.42°W
	iPKP2 A	56 26.0	H = 07 37 37.5 h = 586 km MAG=4.6
	e(pPKP) A	58 12	D = 149.0° Az = 347.6° (USCGS); (h = ca. 455 km) PV:1.3s 53.5nm
13.	eP A	08 18 10	<u>Red Sea</u> 19.63°N 38.88°E
	e A	18 14.5	H = 08 10 56.3 h = normal MAG=5.0
	e A	18 22	D = 37.7° Az = 331.5° (USCGS) PV:1.8s 37.4nm MPV=5.0
13.	iPn A	11 23 19.8	<u>Explosion/ČSSR</u> 50.58°N 14.05°E
	iPg A	23 21.8	H = 11 22 52 (BCIS)
	i A	23 27.5	D = 1.5°
	eSn A	23 38	i 23 27.5 is a very clear phase.
	iSg A	23 41.3	
13.	eP A	11 53 43	PV:1.7s 22.2nm
13.	eP A	14 55 54	<u>Fox Islands/Aleutian Is.</u> 53.72°N 165.36°W
	i A	56 02	H = 14 44 07.2 h = normal MAG=5.2
	i A	56 19.5	D = 76.0° Az = 2.0° (USCGS) PV1:1.4s 23.8nm PV2:0.6s 19.6nm MPV=5.1
13.	iPKIKP A	16 25 37.0	<u>Off Coast of Southern Chile</u>
	ePP A	26 58	40.09°S 74.45°W
	LmH B	17 15.5	H = 16 06 54.3 h = normal MAG=6.0 (USCGS)
	LmV B	15.5	D = 117.4° LmV:18s 1.3 μ m MLV=5.6
13.	iPg A	16 42 16.5	<u>Rock burst/Augsdorf, GDR</u>
	iSg A	42 30.2	H = 16 41 57 D = 1.1°
13.	iPg A	16 50 41.2	<u>Rock burst/Augsdorf, GDR</u>
	iSg A	50 55.7	H = 16 50 21
	e A	50 59	D = 1.1°

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Day	Phase	h m s	Remarks
13.	iPg A	16 51 17.2	<u>Rock burst/Augsdorf, GDR</u>
	iSg A	51 32.2	H = 16 50 57
	i A	51 35.7	D = 1.1°
	LmH A	51 56	LmH:1.4s 163nm LmV:1.4s 154nm
	LmV A	51 56	
13.	iPg A	16 58 15.7	<u>Rock burst/Augsdorf, GDR</u>
	iSg A	58 30.7	H = 16 57 55
	LmH A	58 54	D = 1.1°
	LmV A	58 54	LmH:1.4s 94nm LmV:1.5s 100nm e 58 33 e 58 42
13.	iPg A	17 08 07.2	<u>Rock burst/Augsdorf, GDR</u>
	eSg A	08 21.5	H = 17 07 46
	e A	08 23.5	D = 1.1°
	LmH A	08 49	
13.	eP A	17 41 03	<u>Talaud Islands</u> 3.56°N 126.48°E
			H = 17 27 11.3 h = 63 km MAG=5.4 D = 102.7° Az = 323.7° (USCGS)
13.	eP A	17 47(00)	<u>Southern Greece</u> 37.61°N 22.63°E
	i A	47 02.7	H = 17 43 23.5 h = 89 km MAG=4.5 (USCGS)
	i A	47 06.2	D = 15.3°
13.	eP A	19 14 57.5	<u>Talaud Islands</u> 3.57°N 126.46°E
			H = 19 01 01.4 h = 35 km MAG=5.4 D = 102.7° Az = 323.7° (USCGS)
13.	-eP A	19 29 32	<u>Red Sea</u> 19.70°N 38.85°E
	+iP A	29 33.0	H = 19 22 15.4 h = 7 km MAG=5.8
	+ipP A	29 36.5	D = 37.7° Az = 331.5° (USCGS); h = 17 km
	i A	29 39.5	PV2:1.9s 412nm pPV:2.0s 313nm
	ePcP A	31 50	PcPV:1.8s 81.7nm
	eS C	35 28	MPV2=6.0
	iS B	35 30	e 29 55 e1 30 10 e 31 18
	LmH C	(51)	The P-onsets of Red Sea-earthquakes are
	LmV C	(54)	strong at our station, but have relatively
			long periods (T = 1.8 - 2.0 s) in the

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Day	Phase	h m s	Remarks
cont.			
13.			shortperiod seismographs. PcP is clearly developed. Surface waves are abnormally small.
13.	iP	A 20 56 18.0	<u>North Atlantic Ocean</u> 56.39°N 35.20°W H = 20 50 30.8 h = normal MAG=4.6 (USCGS) D = 28.0°
13.	eP	A 21 50 41	<u>Franz Josef Land</u> 82.16°N 39.66°E
	e	A 50 49	H = 21 44 03.6 h = 11 km MAG=4.4 (USCGS)
	e	A 50 57	D = 32.7°
14.	+eP	A 07 08 38.5	<u>India-China Border Region</u> 28.37°N 94.31°E
	-i	A 08 39.7	H = 06 58 04.6 h = 24 km MAG=5.9 (USCGS)
	eipP	A 08 45	D = 64.2° h = 25 km
	ePcP	A 09 15.5	PV2:1.6s 144nm SH(B):14s 1.6 μ m
	ePP	C 11 00	LmH:13.5s 7.5 μ m LmV:14s 9.4 μ m
	ePPP	AB 12 34	MPV2=6.0 MSH(B)=5.9 MLH=6.2 MLV=6.3
	eS	BC 17 10	e 08 57 e 09 10 e 09 46 e 09 56
	eScS	C 18(27)	e 10 47 e 20 50 e 34.9
	eSS	C 21 22	
	eSSS	C 24 28	
	LmH	B 40.0	
	LmV	B 40.0	
14.	eP	A 07 56 50.5	<u>Franz Josef Land</u> 82.46°N 36.24°E
	e	A 56 58.5	H = 07 50 19.3 h = normal MAG=4.7
	e	A 57 06.5	D = 32.8° Az = 209.4° (USCGS)
	e	A 57 21	PV1:1.2s 20.5nm PV3:1.7s 43.5nm
	e(PcP)	A 59 44	LmH:13s 2.6 μ m LmV:13s 3.4 μ m
	LmH	B 08 12.0	MPV=4.9 MLH=5.3 MLV=5.3
	LmV	B 12.0	e 58 23 e 58 38 e 59 03
14.	e	A 08 04 31	Near earthquake
	e	A 05 46	
	e	A 06 08	
	i	A 06 45.5	
	i	A 07 36.7	

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Day	Phase	h m s	Remarks
cont.			
14.	e	A 08 08 29	
	LmH	A 09.3	
14.	LmH	B 08 19.5	LmH:11s 2.1 μ m LmV:11s 2.1 μ m
	LmV	B 19.5	
14.	e	A 11 37 27	Explosion?
14.	e	A 11 37 44	
14.	iP	A 21 59 21.0	<u>Red Sea</u> 19.37°N 38.67°E H = 21 52 05.3 h = normal MAG=4.6 D = 37.9° Az = 331.8° (USCGS)
14.	ePKIKP	A 23 43 24	<u>South of Fiji Islands</u> 23.02°S 178.73°E
	-ePKHKP	A 43 29	H = 23 24 47.8 h = 650 km MAG=4.9
	ePKP2	A 43(36.5)	D = 150.6° Az = 343.2° (USCGS) PV2:0.9s 18.8nm
15.	e	A 03 42 58	Near earthquake/Probably Yugoslavia
	e	A 43 30	Zagreb gives: eP 03 40 12.0 iS 40 35.7
	e(Sg)	A 43 44	Trieste gives: D = 320 km
	e	A 43 55	
15.	iPKP	A 06 59 03.5	<u>New Hebrides Islands</u> 18.86°S 169.27°E
	ei	A 59 10	H = 06 39 59.8 h = 253 km MAG=4.9
	epPKP	A 07 00 06	D = 143.7° Az = 335.9° (USCGS);
	ei	A 00 27	h = 250 km PV:1.2s 28.2nm AN USSR gives: h = 160 km
15.	i(Sg)	A 16 19 12.0	Explosion?
	e	A 19 14	
	i	A 19 16.0	
15.	e	A 21 05 45	Near earthquake
	e	A 06 31.5	Trieste gives: ePn 21 03 19.5 iSg 03 56
	e	A 06 37	D = 260 km

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Day	Phase	h m s	Remarks
16.	eP	A 03 19 13.5	<u>Red Sea</u> 19.50°N 38.88°E
	epP	A 19 18.5	H = 03 11 59.0 h = normal MAG=5.4
	e	A 19 20.5	D = 37.9° h = 24 km
	e	A 20 32	PV:1.6s 45.5nm
	ePP	A 20 40	MPV=5.2
	ePoP	A 21 33.5	e 19 50
16.	eP	A 11 48 41	<u>Red Sea</u> 19.71°N 39.03°E
	e(pP)	A 48 47	H = 11 41 28.9 h = normal (USCGS)
	e	A 49 02.5	D = 37.7° (h = 28 km)
16.	+iPKIKP	A 12 29 14.0	<u>Loyalty Islands Region</u> 22.06°S 170.45°E
	ePKHKP	A 29 16.5	H = 12 09 37.7 h = 66 km MAG=5.4
	eiPKP2	A 29 19.3	D = 147.0° Az = 335.0° (USCGS)
	e	A 29 34	PV1:1.1s 19.5nm PV2:1.1s 43.8nm
	LmH	A 13(34)	
16.	eP	A 14 52 26	<u>Red Sea</u> 19.73°N 38.88°E
	epP	A 52 31	H = 14 45 12.6 h = normal MAG=5.1 (USCGS) D = 37.7° h = 24 km PV:1.9s 70.5nm MPV=5.3
16.	eiP	A 16 07 30	<u>Red Sea</u> 19.79°N 38.90°E
	epP	A 07 36	H = 16 00 16.0 h = normal MAG=5.0
	e	A 07 42	D = 37.6° Az = 331.4° (USCGS); h = 28 km
	e	A 07 45	AN USSR gives: 18.3°N 38.5°E H = 16 00 06 D = 38.8°
16.	ePKIKP	A 17 51 27	<u>New Hebrides Islands Region</u>
	e	A 51 43.5	13.63°S 170.65°E
	ePP	A 54 28	H = 17 33 07.5 h = 637 km MAG=4.8 D = 139.3° Az = 339.5° (USCGS)
17.	e	A 02 34 48	
17.	e	A 07 00 20	

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Day	Phase	h m s	Remarks
17.	e(Sg)	A 09 02 17	Explosion?
17.	e(Sg)	A 09 18 25	Explosion?
17.	e(Sg)	A 10 00 32	Explosion?
	e	A 00 45	
	e	A 00 52	
17.	i(Pg)	A 10 37 49	Explosion
	e(Sg)	A 38 07	(D = 1.4°)
	e	A 38 12	
17.	e	A 38 20	
	e(P)	A 11 35 33	PV:0.9s 11.9nm
17.	ePKP	A 11 43 45	<u>New Ireland Region</u> 3.60°S 150.92°E
	ePP	A 45 12	H = 11 24 45.7 h = normal MAG=5.4
	e	A 45 15	D = 122.0° Az = 330.7° (USCGS)
	ePS	C 54 58	PPV2:2.3s 100nm
	eSS	C 12 02 00	LmH:18s 5.1 μ m LmV:17s 6.1 μ m
	eSSS	C 05 52	MPPV2=5.9 MLH=6.2 MLV=6.3
	e	C 09 30	PKIKP must be 8 s earlier than the given
	e(Sa)	C 15.5	PKP-onset.
	LmV	B 40.3	AN USSR gives: New Guinea 4.6°S 152.5°E
	LmH	B 40.6	H = 11 24 31 h = normal D = 123.6°
17.	e	A 12 15 48	
17.	e(Pn)	A 12 09 31	Near earthquake
	e	A 10 47.5	Trieste gives: ePn 12 08 23 1Sg 09 06
	e	A 11 18	D = 300 km
	e	A 11 47.5	e 09 54 e 10 33 e 10 38.5 e 10 52
	e	A 11 52	e 10 54 e 11 05 e 12 05 e 12 18
17.	ePn	A 14 47 22	Explosion
	ePg	A 47 24	D = 1.5°
	eiSn	A 47 41	ei 47 29 e 47 45
	eiSg	A 47 43.5	

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Day	Phase	h m s	Remarks
17.	e	A 15 45 59	Explosion?
	e	A 46 01	
	e	A 46 11.5	
18.	ePKHKP	A 09 46 21	<u>Fiji Islands Region</u> 20.72°S 179.36°W
	ePKP2	A 46 27	H = 09 27 42.7 h = 650 km MAG=4.9
	ei	A 46 32	D = 148.9° Az = 346.4° (USCGS)
	i	A 47 31.0	
	i	A 47 33.5	
18.	e	A 10 01 14	Probably explosion
	e	A 01 17.5	
	e	A 01 21	
	e	A 01 26	
18.	e	A 18 02 06	<u>Honshu/Japan</u> 36.29°N 139.76°E
	e	A 02 10	H = 17 49 50.8 h = 105 km MAG=5.0 (USCGS)
	e(pP)	A 02 19	D = 81.3°
	e	A 02 25.5	The first onset of P must be about 9 s earlier.
	e	A 02 36	
	e	A 02 38.5	AN USSR gives: Japan 36.1°N 140.1°E
	e	A 04 52.5	H = 17 49 41 h = normal D = 82.5°
18.	ei	A 19 35 31.5	
18.	ei	A 21 32 30.5	
19.	ePKIKP	A 01 29 17	<u>Banda Sea</u> 6.66°S 129.85°E
	i	A 29 20.0	H = 01 10 45.8 h = 60 km MAG=5.9
	iPP	A 30 09.5	D = 112.8° Az = 322.5° (USCGS)
	e	A 30 16	PV:1.3s 25.0nm PPV:1.6s 49.2nm
	e	A 30 17.5	MPPV=5.9
	e	A 30 25.5	AN USSR gives: h = 95 km
19.	i	A 03 48 51.0	

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Day	Phase	h m s	Remarks
19.	eP1	A 04 13 34	<u>Kurile Islands</u> 45.41°N 151.27°E
	+iP1	B 13 35.5	H = 04 01 36.7 h = normal MAG=5.7
	-iP2	AC 13 37.5	D = 78.1° Az = 335.1° (USCGS)
	eiS	C 23 22	PV1:1.1s 51.2nm PV1(B):10.5s 8.0 μ m
	eS	B 23 28	PV2(A):1.8s 418nm SH(B):13s 5.5 μ m
	eScS	B 23 54	LmH:18s 68 μ m LmV:18.5s 87.2 μ m
	ePS	B 24 12	MPV1=5.6 MPV2(A)=6.3 MPV2(B)=6.8
	eISS	C 28 34	MSH(B)=6.5 MLH=7.0 MLV=7.1
	eSS	B 28 38	e 13 44 e 13 53 e 15 36
	eSSS	C 32 04	
	LmH	B 51.2	
	LmV	B 51.4	
19.	e	A 17 37 17	Probably Rat Islands/Aleutian Is.
	e	A 38 04.5	51.91°N 179.97°E
			H = 17 25 10.5 h = 18 km MAG=4.9
			D = 77.3° Az = 352.4° (USCGS)
			P must be 12 s earlier than the first given onset.
19.	e(P)	A 18 20 04	
	e	A 20 24	
20.	eP	A 05 25 53	<u>Kurile Islands</u> 45.53°N 150.93°E
			H = 05 13 57.6 h = normal MAG=4.5
			D = 77.9° Az = 334.9° (USCGS)
			PV:1.1s 14.6nm
			MPV=5.1
20.	e(P)	A 07 08 28	
20.	eP	A 09 42 32.5	<u>Kurile Islands</u> 45.65°N 151.46°E
			H = 09 30 36.4 h = normal MAG=4.4
			D = 78.0° Az = 335.2° (USCGS)
20.	ei	A 09 45 48	Explosion?
	e	A 46 06.5	

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Day	Phase	h m s	Remarks
20.	eP	A 13 43 28.5	<u>Kurile Islands</u> 45.61°N 151.38°E
	-iP	A 43 29.5	H = 13 31 34.0 h = 51 km MAG=5.7
	e	A 43 35.5	D = 78.0° Az = 335.1° (USCGS)
	e(PcP)	A 43 40	PV2:1.2s 174nm PV3:1.3s 66.6nm
	i	A 43 49.0	(PcP)V:1.2s 66.6nm
	LmH	B 14 17.6	LmH:18s 6.6/um LmV:18s 5.1/um
	LmV	B 21	MPV2=6.1 MLH=6.0 MLV=5.9
20.	eP	A 13 50 47.5	<u>Kurile Islands</u> 45.75°N 151.63°E
			H = 13 38 53.7 h = 50 km MAG=4.6 D = 77.9° Az = 335.3° (USCGS) PV:1.2s 12.8nm MPV=4.9
20.	+iP	A 13 52 48.3	<u>Kurile Islands</u> 45.55°N 151.52°E
	ei(PcP)	A 52 59	H = 13 40 52.8 h = 53 km MAG=5.3 (USCGS)
	e	A 53 04	D = 77.9°
	e	A 53 10.5	PV:1.4s 97.0nm
	i	A 53 20.2	MPV=5.7
	LmH	B 14 25	
20.	+eiP	A 14 04 02	<u>Kurile Islands</u> 45.64°N 151.53°E
	e	A 04 06.5	H = 13 52 05.5 h = 32 km MAG=5.4
	ei(pP)	A 04 08.5	D = 78.0° Az = 335.2° (USCGS);
	i	A 04 13.5	(h = 24 km)
	i	A 04 20.5	PV1:1.9s 276nm PV2:1.2s 20.5nm
	LmH	B 05 03 38.1	PV3:1.6s 114nm LmH:16s 4.9/um MPV=6.1 MLH=5.9 AN USSR gives: h = 61 km
20.	ei(Sg)	A 14 10 54.5	Explosion?
20.	LmH	B 14 17.6	LmH:17.5s 6.2/um LmV:18s 5.1/um
	LmV	B 21	

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Day	Phase	h m s	Remarks
20.	eP	A 14 56 13.5	<u>Kurile Islands</u> 45.44°N 151.48°E
			H = 14 44 17.8 h = 50 km MAG=4.6 D = 78.2° Az = 335.2° (USCGS) PV:1.3s 16.6nm MPV=5.0
20.	+iP	A 15 58 23.0	<u>Kurile Islands</u> 45.58°N 151.23°E
	e	A 58 33	H = 15 46 29.4 h = 60 km MAG=5.1
	e	A 58 54.5	D = 78.0° Az = 335.1° (USCGS) PV:1.6s 38.0nm MPV=5.3
20.	eP	A 16 23 57	<u>Kurile Islands</u> 45.54°N 151.13°E
			H = 16 12 00.7 h = normal MAG=4.0 (USCGS) D = 77.8°
20.	+eP	A 17 23 32	<u>Kurile Islands</u> 45.47°N 151.45°E
	e(pP)	A 23 51	H = 17 11 34.8 h = normal MAG=5.0
	i(sP)	A 23 59	D = 78.1° Az = 335.2° (USCGS); h = 74 km PV:1.4s 42.5nm MPV=5.4
20.	+eiPKIKP	A 19 27 06.7	<u>Loyalty Islands Region</u> 22.14°S 170.55°E
	-iPKHKP	A 27 08.8	H = 19 07 25.2 h = 28 km MAG=5.5
	i	A 27 11.0	D = 147.1° Az = 335.1° (USCGS)
	e	A 27 31	PV1:1.2s 46.1nm PV2:1.3s 89.0nm
	i	A 27 48.5	ei 27 13 i 27 18.5 e 27 26 i 27 33.5
20.	eP	A 22 07 03.5	<u>Honshu/Japan</u> 36.27°N 139.74°E
			H = 21 54 48.0 h = 57 km MAG=4.7 (USCGS) D = 82.0°
21.	i(P)	A 00 33 45.5	
21.	ePKIKP	A 11 44 31.5	<u>Tonga Islands</u> 23.83°S 175.18°W
	ePKHKP	A 44 39.5	H = 11 24 44.6 h = normal MAG=5.4 (USCGS)
	e(pPKIKP)	A 44 43	D = 152.7° (h = ca. 38 km)
	e(pPKHKP)	A 44 49.5	e 44 58.5 e 45 08 e 45 13
	e(PKP2)	A 44 52.5	

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Day	Phase	h m s	Remarks
21.	e	A 13 06 19	
21.	e	A 13 10 03	
21.	e	A 17 40 25	
21.	eP	A 18 23 44.5	<u>Northern Columbia</u> 6.84°N 72.96°W
	epP	A 24 23.5	H = 18 11 42.2 h = 151 km MAG=5.4 (USCGS)
	e	A 24 28	D = 81.4° h = 160 km
	e	A 24 35	pP is the greatest onset on the short-
	e	A 24 42	period vertical components.
22.	eP	A 03 01 30	<u>Red Sea</u> 20.30°N 38.69°E H = 02 54 22.6 h = normal D = 37.1° Az = 331.5° (USCGS) PV:1.9s 35nm MPV=5.0
22.	eP	A 06 10 16.7	<u>Near Islands/Aleutian Is.</u> 51.61°N 173.86°E
	e	A 10 30	H = 05 58 25.5 h = normal MAG=4.9 (USCGS) D = 77.0°
22.	e	A 07 59 46.5	
22.	e	A 08 28 53	
22.	e(Sg)	A 11 04 06	Explosion?
22.	LmH	C 14(13)	<u>East New Guinea Region</u>
22.	iPg	A 15 04 35.8	<u>Explosion/GDR</u>
	iSg	A 04 51	D = 1.2°
22.	iPn	A 19 15 57.5	<u>Alps/Italy</u> 46.3°N 12.6°E
	ePg	A 16 16	H = 19 14 51 (BCIS)
	eSn	A 16 47.5	D = 4.4°
	e(Sg)	A 17(12)	
	i	A 17 14.5	
	iLg2	A 17 16.5	

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Day	Phase	h m s	Remarks
22.	ei	A 19 20 42	Aftershock of the preceding Italy-earth-
	ei(Sg)	A 20 53.5	quake. After Trieste felt at Sacile.
	i	A 21 00	
22.	LmH	C 22 14	<u>South Sandwich Islands</u>
22.	eP	A 23 07 03.5	<u>Red Sea</u> 19.73°N 38.79°E H = 22 59 49.8 h = normal D = 37.6° Az = 331.5° (USCGS) PV:1.2s 15.4nm MPV=4.8
23.	ePKP	A 00 55(18)	<u>Fiji Islands Region</u> 16.99°S 177.11°W
	e	A 55 24	H = 00 35 43.1 h = 55 km MAG=4.8
	e	A 55 30	D = 145.7° Az = 350.1° (USCGS) PV2:1.4s 21.2nm The second onset is much greater than the first.
23.	LmV	B 13 25.5	LmV:24s 1.45 μ m
23.	eP	A 13 53 54	<u>Kurile Islands</u> 45.76°N 151.85°E
	e(pP)	A 54 07	H = 13 41 57.5 h = normal MAG=4.7 (USCGS)
	e(sP)	A 54 12	D = 77.8° (h = 50 km)
	LmH	C 14 27.5	PV:1.2s 20.5nm MPV=5.1
23.	LmH	C 16 06.8	<u>Southern Sumatra</u> 4.71°S 101.84°E H = 15 00 27.8 h = normal MAG=5.2 (USCGS) D = 83.8° LmH:23s 0.4 μ m MLH=4.9
23.	e	A 20 17 33	
24.	i(Sg)	A 00 49 16	Explosion?
24.	eP	A 01 35 22	<u>Kurile Islands</u> 45.29°N 150.96°E H = 01 23 24.7 h = normal MAG=4.4 (USCGS) D = 78°

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Day	Phase	h m s	Remarks
24.	eP	A 02 04 57	<u>Red Sea</u> 20.21°N 38.32°E
	e	A 05 04	H = 01 57 49.0 h = normal MAG=5.0
	e	A 05 10	D = 37.0° Az = 331.6° (USCGS) PV:1.9s 41.1nm MPV=5.0
24.	eP	A 04 23 40	<u>Off East Coast of Honshu/Japan</u> 40.24°N 144.60°E H = 04 11 29.6 h = 27 km MAG=5.0 (USCGS) D = 80.5°
24.	eP	A 06 45 18	<u>Red Sea</u> 20.02°N 38.66°E
	e(PP)	A 46 50	H = 06 38 08.8 h = 42 km MAG=5.1 (USCGS)
	e	A 47 24	D = 37.3°
24.	eP	A 09 13 10	<u>Java Sea</u> 5.98°S 112.35°E
	+iP	B 15 19	H = 09 00 19.5 h = 600 km MAG=6.0 (USCGS)
	epP	A 15 19.5	D = 101.5° h = 593 km
	esP	B 16 18	pPV(B):5s 1.4 μ m pPV(A):2.5s 200nm
	iPP	A 17 27.5	PPV:1.5s 66.6nm pPPV:1.9s 153nm
	epPP	A 19 16	SKSH(B):10s 3.8 μ m SH:13s 3.2 μ m
	eSKS	C 22 45	SSH:(13s) 4 μ m SSPH:12s 1.9 μ m
	iSKS	B 22 50	SaH:42s 6 μ m
	iS	B 23 55	LmH:19s 2.9 μ m LmV:20s 4.1 μ m
	eSP	C 25 28	MPPV=5.7 MSH=6.2
	iSPP	C 26 28	e 15 21.5 e 15 28 e 16 24.5 e 16 42.5
	isS	C 27 50	e 1 17 15 i 17 24.0 e 17 57.5 e 18 34.5
	iPKKP	A 29 15.0	e 19 27.5 e 21 00
	iSS	B 31 10	pPP is the greatest onset in the short-
	iSSP	B 31 20	period vertical components, Sa the
	epPKKP	A 31 31.5	strongest phase in the ultra long-period
	e(sss)	C 34 42	N-component.
	iSSSS	C 38 40	
	iSa(4.52)	C 41 55	
	LmH	B 10 08.3	
	LmV	B 08.3	
24.	e	A 12 04 27	Probably Java Sea 6.0°S 112.3°E
	e(pPP)	A 05 12.5	H = 11 46 13.9 h = 600 km MAG=5.3 (USCGS) D = 101.5°

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Day	Phase	h m s	Remarks
24.	ePn	A 17 39(30)	<u>Switzerland</u> 46.4°N 7.4°E
	e	A 39 35.5	H = 17 38 15 (BCIS)
	iPb	A 39 42.5	D = 5.1°
	iPg	A 39 50.5	PbV:0.8s 37.7nm PgV:0.7s 152nm
	eiSg	A 40(56.5)	LmH:9s 3.1 μ m
	LmH	B 41.2	MLH=4.0 Pn is unusually small with an ambiguous beginning.
24.	ePKP	A 23 18 28.5	<u>Fiji Islands Region</u> 20.16°S 179.05°W
	epPKP	A 20 54.5	H = 22 59 47.3 h = 654 km MAG=4.7 (USCGS) D = 148.4° h = 658 km PV1:1.6s 30.3nm PV2:1.9s 58.7nm
25.	+iP	A 06 05 47.5	<u>Kazakh SSR</u> 50.0°N 78.0°E
	e	A 05 51	H = 05 58 00 (BCIS)
	e	A 05 52	D = 41.2°
	ePn	A 07 19.5	PV:0.8s 54.3nm
	ePP	A 07 23.5	MPV=5.5
	i	A 07 29.5	Probably underground explosion.
25.	eP	A 14 41(50)	<u>South of Panama</u> 7.38°N 79.74°W
	e	A 41 55.5	H = 14 29 13.6 h = 35 km MAG=4.7 (USCGS)
	e	A 42 51.5	D = 85.2°
25.	LmH	C 18 53.5	LmH:16s 0.35 μ m
25.	-eiP	A 22 59 55.5	<u>Kurile Islands Region</u> 45.45°N 151.41°E
	eiPcP	A 23 00 06	H = 22 47 58.4 h = 41 km MAG=5.5
	epP	A 00 09	D = 78.1° Az = 335.2° (USCGS); h = 50 km
	isP	A 00 15.0	PV:1.4s 121nm
	eiS	C 09 48	LmH:16s 13 μ m LmV:18s 6.0 μ m
	eSS	C 15 05	MPV=5.8 MLH=6.4 MLV=6.0
	LmH	B 34.1	i 00 01.0 i 01 44 e 10 18
	LmV	B (38)	
26.	e	A 03 17 12	<u>West Pakistan</u> 27.18°N 67.50°E
	e	A 17 19.5	H = 03 08 26.9 h = 21 km MAG=4.5
	e	A 17 22	D = 48.1° Az = 314.9° (USCGS)
	e	A 17 34.5	P must be 5 s earlier than the first given onset.

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Day	Phase	h m s	Remarks
26.	eP A	04 34 52	<u>Central Alaska</u> 64.11°N 147.23°W H = 04 24 13.5 h = 33 km MAG=4.4 (USCGS) D = 64.5°
26.	e A	16 02 31.5	
26.	e A	16 29 41	
26.	e A	22 08 15	
	e A	08 17	
26.	ePKIKP A	22 58 03	<u>East New Guinea Region</u> 9.27°S 148.58°E H = 22 39 01.5 h = 14 km MAG=5.3 (USCGS) D = 125.8°
27.	eP A	08 20 23.5	<u>Gulf of Bengal</u> 15.1°N 80.5°E H = 08 09 44 h = normal MAG=4.7/4 D = 65.1° (AN USSR) PV:1.0s 19.0nm MPV=5.2
	e A	20 27.5	
	e A	20 36	
	ePcP A	20 56.5	
	e(P) A	22 52	
	LmH C	(48)	e 20 29 e 21 09.5
27.	eP A	08 38 43	<u>Western Brazil</u> 8.89°S 71.31°W H = 08 26 34.5 h = 603 km MAG=5.3 D = 92.4° Az = 39.2° (USCGS); h = 603 km PV:2.0s 120nm MPV=5.6 AN USSR gives: h = normal
	+i A	38 44.0	
	epP A	40 53.5	
	e A	41 16	
27.	eiP A	09 09 31	<u>Northeastern China</u> 38.42°N 116.49°E H = 08 58 25.5 h = 61 km MAG=5.4 D = 69.6° Az = 319.0° (USCGS); h = 25 km PPV:7s 0.9/um LmH:18.5s 27.3/um LmV:15s 24.7/um MPPV=6.2 MLH=6.5 MLV=6.6 i 09 45.0 i 09 48.0 e 10 03.5 e 23 34 e 26 42 Successive P-onsets with increasing amplitudes.
	e(pP) A	09 37.5	
	e(sP) A	09 40.5	
	eiPP B	12 12	
	eiS C	18 36	
	eSS C	23 08	
	eSSS C	26 20	
	LmH B	36.8	
	LmV B	43.8	

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Day	Phase	h m s	Remarks
27.	ePKIKP A	10 21 15	<u>New Hebrides Islands</u> 16.50°S 168.08°E H = 10 01 42.0 h = 11 km MAG=5.5 D = 141.0° Az = 336.2° (USCGS) LmH:22s 6.9/um LmV:24s 8.6/um MLH=6.4 MLV=6.4 i 21 24 i 21 29
	eSS C	42 48	
	eSSS C	48.0	
	eIQ C	59.5	
	LmV B	11 20.1	
	LmH B	20.5	
27.	eP A	18 33 25	<u>Mindanao/Philippine Islands</u> 5.78°N 126.39°E H = 18 19 31.9 h = normal (USCGS) D = 101.5°
27.	+eP A	20 00 52	<u>Red Sea</u> 20.02°N 38.60°E H = 19 53 40.6 h = 23 km MAG=5.1 D = 37.3° Az = 331.5° (USCGS); h = 24 km PV1:1.8s 92nm pPV:1.8s 71.5nm PPV:2.0s 60nm PcPV:1.9s 41.2nm MPV=5.4 MPPV=5.1
	epP A	00 57	
	ePP A	02 22	
	ePcP A	03 12	
28.	e(P) A	00 08 10.5	<u>Aegean Sea</u> 38.48°N 25.33°E H = 00 04 27.3 h = 34 km MAG=4.3 D = 15.6° Az = 325.8° (USCGS) LmH:11.5s 1.3/um MLH=4.3 P must be 5 s earlier than e(P) for the USCGS epicentre data, but coincides exactly with e(P) for the epicentre calculation of AN USSR: 39.0°N 25.8°E H = 00 04 34 h = normal D = 15.3°
	e A	08 12.5	
	e A	08 37.5	
	LmH B	13 04	
28.	eP A	02 48 45	<u>Red Sea</u> 19.87°N 38.61°E H = 02 41 33.5 h = normal (USCGS) D = 37.4°
	i A	48 50.0	
	e A	48 58.5	
28.	e(P) A	06 26 12.5	
28.	ePn A	15 50 36.5	<u>Belgium</u> 50.55°N 4.09°E H = 15 49 23.4 h = 18 km MAG=3.9
	e(Pb) A	50 49.5	

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Day	Phase	h m s	Remarks
cont.			
28.	ePg	A 15 50 58	D = 4.8° Az = 85.9° (USCGS)
	iSn	A 51 28.0	LmH:7.5s 4.9/um LmV:5.5s 1.8/um
	ei(Sb)	A 51 44	MLH=4.2
	iSg	A 51 57.0	i 50 37.5 e 50 46 e 50 53.5 e 51 02
	LmH	B 52.2	i 51 11.5 i 51 19.2 ei 51 23.5
	LmV	B 52.4	i 51 49.0
28.	eP	A 19 45 18	<u>Luzon/Philippine Islands</u> 17.05°N 122.41°E
	e	A 45 25	H = 19 32 25.4 h = 51 km MAG=5.3 (USCGS) D = 89.6° PV:1.3s 11.1nm MPV=5.0
28.	e(P)	A 20 08 41	PV:2.0s 40.0nm
28.	e(LQ)	C 20 20.0	LmV:15s 0.9/um
	LmH	B 31.4	
	LmV	B 31.4	
29.	ePKP	A 02 09 08	<u>Kermadec Islands</u> (UPP)
29.	eP	A 09 43 13	<u>Chagos Archipelago Region</u> 7.36°S 68.05°E
	i	A 43 15.0	H = 09 31 31.1 h = normal MAG=5.0 (USCGS) D = 75.5°
29.	LmH	B 09 46.5	LmH:18s 0.7/um LmV:18s 1.1/um
	LmV	B 46.5	
29.	LmH	C 14 33	<u>New Hebrides Islands</u>
29.	e(PKIKP)	A 17 28 01	<u>Fiji Islands Region</u> 20.05°S 179.00°W
	e(PKHKP)	A 28 06.5	H = 17 09 21.9 h = 610 km MAG=4.6 (USCGS) D = 148.3° PV2:0.8s 9nm AN USSR gives: Western of Tonga Islands 19.0°S 176.2°W H = 17 08 20 h = normal

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Day	Phase	h m s	Remarks
30.	i	A 00 05 52	
30.	eP	B 02 22 16	<u>South of Bali Island</u> 10.99°S 115.48°E
	e	B 22 53	H = 02 08 02.4 h = normal MAG=6.0 (USCGS)
	eiPKIKP	A 26 15	D = 107.2°
	ePP	B 26 42	PV1:7s 0.35/um PV2:8s 0.5/um
	e(SKS)	C 32.9	PPV:9s 1.0/um
	eS	B 34 16	LmH:18s 2.4/um LmV:22s 2.4/um
	ePS	C 36 06	MPPV=6.5 MLH=5.8 MLV=5.7
	ePPS	C 37 08	e 26 46 e 26 50 e 26 53 e 27 05
	eSS	C 41 40	e 49 24
	LmV	B 03 14.8	
	LmH	B 17.0	
30.	eP	A 03 35 02	<u>North of Severnaya Zemlya</u> 85.69°N 85.99°E
	epP	A 35 07	H = 03 27 41.5 h = normal MAG=4.4
	e	A 36 20	D = 38.6° Az = 259.6° (USCGS); h = 23 km PV:0.8s 9.4nm pPV:1.2s 12.8nm MPV=4.8
30.	eP	A 08 48 29	<u>North of Severnaya Zemlya</u> 86.43°N 71.65°E
	epP	A 48 34.5	H = 08 41 13.9 h = normal MAG=4.8
	e	A 48 41	D = 37.9° Az = 244.0° (USCGS); h = 25 km
	e	A 48 49	PV:1.6s 37.9nm pPV:1.2s 15.4nm MPV=5.1
30.	ePg	A 12 58 59	<u>Explosion/GDR</u> 51.25°N 12.66°E
	iSg	A 59 13.5	D = 1.1°
30.	ePn	A 13 51 28.5	<u>Yugoslavia</u> 43.4°N 20.8°E
	ePg	A 52 23	H = 13 49 11 (BCIS)
	e	A 53 45	D = 9.6°
	eSg	A 54 31	e 51 37 e 52 52 e 54 19
30.	e	A 16 20 20	
	e	A 20 32	
30.	e(P)	A 21 54 07	

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Day	Phase	h m s	Remarks
30.	ePKP	A 23 24 22.5	<u>Fiji Islands Region</u> 16.87°S 176.87°W
	e	A 24 29	H = 23 04 45.8 h = normal MAG=5.1
	ePPS	C 40 36	D = 145.6° Az = 350.4° (USCGS)
	eSS	C 46(40)	PV1:1.8s 51.0nm
	eLQ	C 00 04	LmH:20s 1.3/um LmV:22s 1.4/um
	LmV	B 28.8	MLH=5.7 MLV=5.7
	LmH	B 30.8	e 24 36 e 24 55 ei 25 16
31.	eP	A 02 24 13	<u>Fox Islands/Aleutian Is.</u> 52.09°N 169.70°W
	e	A 24 18	H = 02 12 17.8 h = 28 km MAG=4.8
	e	A 24 22.5	D = 77.6° Az = 359.1° (USCGS)
	e	A 24 30	PV:1.5s 46.7nm
	LmH	C 10.3	MPV=5.4
	LmV	C 10.3	
31.	eSg	A 03 07 15	Probably near earthquake.
	e	A 07 19	Trieste gives: iSg 03 05 54
	e	A 07 24	
31.	eP	A 03 25 33	<u>Red Sea</u> 20.22°N 38.64°E
	epP	A 25 38	H = 03 18 24.2 h = normal MAG=4.8
	e	A 25 40	D = 37.1° Az = 331.3° (USCGS); h = 23 km
	e(PP)	A 27 07	PV:1.9s 47.0nm
	ePcP	A 27 53	MPV=5.1
31.	LmH	C 07(45)	Probably Luzon/Philippine Islands
31.	e(P)	A 08 49 26	
31.	LmH	C 09 08.5	<u>Aleutian Islands</u>
31.	eSS	C 11 09.0	<u>Southern Pacific Ocean</u> 35.74°S 102.71°W
	LQ	C 24	H = 10 29 43.5 h = normal MAG=4.9 (USCGS)
	LR	C 31	D = 131.5°
	LmH	C 45	LmV:20s 0.4/um
	LmV	B 45	MLV=5.1

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Day	Phase	h m s	Remarks
31.	eSS	C 11 13.5	<u>Southern Pacific Ocean</u> 35.65°S 102.96°W
	LmH	C (49.5)	H = 10 34 00.5 h = normal MAG=4.8 (USCGS)
	LmV	B 50.4	D = 131.5° LmV:(16s 0.3/um)
31.	iPg	A 14 11 41.0	Explosion
	iSg	A 11 56.8	D = 1.2°
31.	iPg	A 15 06 24.5	Explosion
	ei	A 06 39.5	D = 1.3°
	iSg	A 06 41.5	
31.	e	A 20 24 26	<u>New Hebrides Islands</u> 15.38°S 167.51°E
	ePKHKP	A 24 28	H = 20 05 18.9 h = 132 km MAG=5.3
	ePKIKP	A 24 32	D = 139.8° Az = 336.2° (USCGS)
	e	A 24 35	PV3:1.4s 36.4nm PV4:1.8s 61.2nm
	eSS	C 46.4	e 27 14 e 27 57
	LmH	C 21(21)	AN USSR gives: h = normal
31.	eiSg	A 23 25 29	Explosion?

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Day	Phase	h m s	Remarks
1.	eP	A 06 06 14	<u>Kurile Islands</u> 45.82°N 151.76°E
	-iP	A 06 15.5	H = 05 54 19.1 h = 40 km MAG=5.7
	iS	C 16 06	D = 77.9° Az = 335.3° (USCGS)
	eScS	C 16 31	PV2:1.9s 425nm
	iPS	B 16 52	LmH:16.5s 15/um LmV:17s 11.1/um
	eSS	C 21 40	MPV2=6.3 MLH=6.4 MLV=6.3
	eSSS	C 24 40	i 06 20.5 e 06 31 e 07 15.5 e 09 06.5
	LmH	B 40.4	e 09 17 e 16 22 e 18(00)
	LmV	B 45.5	
	1.	+iP	A 06 09 02.0
ei		A 09 07	H = 05 57 09.1 h = 40 km MAG=5.5 (USCGS)
ipP		A 09 17.0	D = 77.4° h = 57 km
eS		C 18 48	PV:2.2s 421nm pPV:2.0s 291nm
eSS		C 24 24	MPV=6.2
1.		e(P)	A 07 49 42
	e(pP)	A 49 58	H = 07 37 41.6 h = 40 km MAG=4.7 (USCGS) D = 74.6° The first onset of P must be about 5 s earlier.
1.	iP	A 08 00 23.0	<u>Kurile Islands Region</u> 45.89°N 152.01°E
	i	A 00 29.0	H = 07 48 27.8 h = 40 km MAG=5.0
	e(pP)	A 00 36.5	D = 77.9° Az = 335.5° (USCGS); (h = 50 km) PV:1.5s 26.7nm MPV=5.0
1.	iP	A 08 01 01.5	<u>Kurile Islands Region</u>
	e	A 01 07	H = 07 49 07 (UPP)
	epP	A 01 15	D = ca. 77.9° h = 50 km
	LmH	B 39.3	PV:2.0s 73.3nm LmH:18s 0.5/um MPV=5.5 MLH=4.9
1.	e(Pg)	A 08 09 46	Explosion
	i(Sg)	A 10 04	(D = ca. 1.4°)
	LmH	A 10 16	

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Day	Phase	h m s	Remarks
1.	ePP	A 11 00 12	<u>Northern Easter Is. Cordillera</u>
	eSKS	C 06(12)	4.56°S 105.81°W
	ePS	C 09 35	H = 10 41 00.2 h = normal MAG=5.0 (USCGS)
	eiSS	C 15 48	D = 110.7°
	LmH	B 41.5	LmH:20s 1.9/um LmV:20s 2.3/um
	LmV	B 43.8	MLH=5.7 MLV=5.8 AN USSR gives: 17.4°S 111.9°W H = 10 40 40 h = normal MAG=5.2 D = 124.4°
1.	eP	A 12 35 30.5	<u>Kurile Islands</u> 45.70°N 151.79°E
	+iP	A 35 31.2	H = 12 23 35.5 h = 40 km MAG=5.9
	e(pP)	A 35 42.5	D = 78.0° Az = 335.4° (USCGS);
	eS	C 45 24	(h = 45 km)
	eScS	C 45 50	PV2:1.7s 505nm
	ePPS	C 46 24	LmH:17.5s 13.8/um LmV:16s 9.4/um
	eSS	C 51 00	MPV=6.4 MLH=6.5 MLV=6.2
	LmV	B 14.7	ei 35 37 e 47 12
1.	eP	A 12 46 25.5	<u>Iceland</u> 63.69°N 18.94°W
	e(sP)	A 46 34	H = 12 41 40.6 h = 2 km MAG=4.8 D = 20.8° Az = 114.5° (USCGS); (h = 19 km) PV:1.6s 45.5nm MPV=4.5
1.	+eiP	A 14 12 31.2	<u>Kurile Islands</u> 45.84°N 151.74°E
1.	eP	A 15 47 33	H = 14 00 33.8 h = 23 km MAG=5.4
	epP	A 27 54.5	D = 77.9° Az = 335.3° (USCGS) PV:1.9s 100nm MPV=5.6
1.	eP	A 17 27 42	<u>Kurile Islands</u> 45.87°N 151.95°E
	epP	A 27 54.5	H = 17 15 45.7 h = normal MAG=4.7 D = 77.9° Az = 335.4° (USCGS); h = 46 km

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Day	Phase	h m s	Remarks
1.	+iP	A 17 33 05.0	<u>Kurile Islands</u> 45.62°N 151.93°E
	e	A 33 11	H = 17 21 09.3 h = 40 km MAG=4.7
	epP	A 33 17	D = 78.1° Az = 335.5° (USCGS); h = 45 km
	e	A 33 30	PV:1.5s 36.8nm
	LmH	B 18 05	MPV=5.3
	LmV	B 12	AN USSR gives: 46.4°N 150.8°E H = 17 21 25 h = 129 km D = 77.1°
1.	eP	A 21 53 55.5	
1.	iP	A 22 53 15.0	
	e	A 54 24	
1.	iP	A 23 32 20.5	<u>Alaska Peninsula</u> 58.41°N 154.95°W
	e	A 32 26.5	H = 23 21 12.2 h = 96 km MAG=4.3
	epP	A 32 32.5	D = 70.8° Az = 9.0° (USCGS); h = 46 km PV:0.8s 11.8nm MPV=5.1 (by h = 46 km) MPV=4.8 (by h = 96 km) AN USSR gives: Kodiak Island 57.3°N 154.6°W H = 23 20 58 h = normal D = 71.8°
2.	ePKHKP	A 02 13 39	<u>Tonga Islands</u> 20.43°S 173.76°W
	ePKP2	A 13 45	H = 01 53 50.5 h = normal MAG=4.6
	e	A 13 48	D = 149.5° Az = 353.2° (USCGS)
2.	e(P)	A 09 03 03.5	
2.	iP	A 15 29 19.5	<u>Northern Yukon Territory/Canada</u> 66.58°N 136.10°W H = 15 19 09.8 h = normal MAG=4.5 (USCGS) D = 60.6°
2.	ePS	C 18 11.1	<u>New Britain Region</u> 6.28°S 148.82°E
	e	C 13.3	H = 17 40 38.8 h = 37 km MAG=5.0 (USCGS)
	eSS	C 18.1	D = 123.3°

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Day	Phase	h m s	Remarks
cont.			
2.	LmH	B 18 53.8	LmH:22s 3.6/um LmV:21s 4.9/um
	LmV	B 54.3	MLH=6.0 MLV=6.1
3.	e	A 01 25 23	Near earthquake?
	e(Sg)	A 26 19	
3.	+eP	A 07 45 39	<u>Red Sea</u> 19.91°N 38.46°E
	eI	A 45 43	H = 07 38 28.4 h = normal MAG=5.1
	e	A 45 55	D = 37.3° Az = 331.7° (USCGS)
	ePP	A 47 10	PV:1.7s 56.5nm
	ePcP	A 48 00	MPV=5.2
3.	ePKIKP	A 08 23 16	<u>New Britain Region</u> 6.06°S 151.50°E
	e	A 23 37	H = 08 04 15.4 h = 16 km MAG=4.9 (USCGS)
	e	C 34.0	D = 124.4°
	ePS	C 34 53	LmH:14s 0.6/um LmV:14s 1.1/um
	eSS	C 41.8	MLH=5.4 MLV=5.6
	LmH	B 09 23	
	LmV	B 24.6	
3.	ePKIKP	A 13 18 23	<u>Tonga Islands</u> 20.21°S 173.74°W
	ePKHKP	A 18 27.5	H = 12 58 40.9 h = 48 km MAG=5.3
	ePKP2	A 18 32.5	D = 149.3° Az = 353.3° (USCGS);
	epPKP	A 18 40	h = ca. 45 km
	e	A 18 55	PV2:2.0s 133nm
	e	A 19 20	LmH:18s 1.9/um LmV:18s 1.9/um
	LmH	B 14 27	MLH=6.0 MLV=5.9
	LmV	B 32.5	
3.	ePn	A 16 37 45	<u>Northern Italy</u> 44.91°N 10.57°E
	e	A 37 49.5	H = 16 36 19.8 h = normal MAG=4.7
	iPg	A 38 10.0	D = 5.8° Az = 6.6° (USCGS)
	iSn	A 38 49.0	LmH:9.5s 1.7/um LmV:9.5s 2.0/um
	iSg	B 39 26	MLH=3.8
	iLg2(3.30)E	B 39 35	
	LmH	B 40.5	
	LmV	B 40.5	

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Day	Phase	h m s	Remarks
4.	eSS C	01 13.0	<u>West New Guinea</u> 2.34°S 138.71°E H = 00 37 26.1 h = normal MAG=5.6 (USCGS) D = 114.5° LmH:18s 1.3/um LmV:19s 2.5/um MLH=5.6 MLV=5.8
	LmH B	48.5	
	LmV B	50.6	
4.	eP A	02 45 51	<u>Greece (UPP)</u>
	i A	45 57.0	
4.	i A	03 51 10.5	
4.	iP A	04 06 23.5	<u>Kurile Islands</u> 45.48°N 152.16°E H = 03 54 26.2 h = 42 km MAG=5.0 D = 78.3° Az = 335.6° (USCGS); h = 46 km PV:1.5s 33.2nm pPV:1.6s 91.0nm LmH:14s 0.5/um LmV:17s 0.6/um MPV=5.2 MLH=5.2 MLV=5.2 e 07 05.5 e 07 13
	e A	06 28	
	eIpP A	06 36	
	e A	07 00	
	LmH B	44.5	
	LmV B	46.2	
4.	eP A	09 17 51	<u>Near S. Coast of Honshu/Japan</u> 33.37°N 137.47°E H = 09 06 01.1 h = 353 km MAG=5.2 D = 83.7° Az = 328.7° (USCGS); h = 360 km PV:1.5s 16.7nm MPV=4.6
	i A	17 55.5	
	epP A	19 16	
	e A	19 29.5	
	ePP A	21 08	
4.	iPg A	16 08 46.0	Explosion D = ca. 1.6°
	eSg A	09 07	
4.	eP A	17 03 05	<u>Crete</u> 35.43°N 23.60°E H = 16 59 04.1 h = 71 km MAG=4.8 D = 17.5° Az = 333.9° (USCGS) e 04 00 AN USSR gives: Aegean Sea 36.6°N 24.0°E H = 16 59 22 h = 166 km D = 16.6°
	e A	03 11.5	
	e A	03 22.5	
	e A	03 29.5	
	e A	03 33.5	
	LmH B	10.5	
4.	e A	17 58 42	<u>Aegean Sea</u> 39.06°N 24.51°E H = 17 55 02.2 h = normal (USCGS) D = 14.8°
	LmH C	18 03.5	

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Day	Phase	h m s	Remarks
4.	e A	18 07 02	Near earthquake?
	e(Sg) A	07 06	
	i A	07 22.5	
4.	eP A	18 08 41	<u>Rumania</u> 45.73°N 26.22°E H = 18 06 04.3 h = 131 km MAG=4.7 (USCGS) D = 10.9°
	e A	08 51	
	e A	09 13	
4.	eP A	19 44 48	
4.	e(P) A	22 05 46	
4.	e A	22 22 08	
5.	-eP A	02 47 50.5	<u>Mariana Islands</u> 20.00°N 147.12°E H = 02 34 11.1 h = 50 km MAG=5.9 D = 99.5° Az = 333.1° (USCGS); (h = 52 km) PV:1.4s 30.7nm PPV:9s 1.1/um LmH:15s 1.3/um LmV:15s 1.9/um MPV=5.7 MPPV=6.3 MLH=5.5 MLV=5.7 e 47 56 e 48 02 e 51 44 e 51 48 e 52 05 e 52 15
	i(pP) A	48 05	
	e(sP) A	48 08.5	
	ePP B	51 54	
	e(pPP) A	52 08.5	
	eSKS C	58.5	
	eS C	59 24	
	ePS C	03 00 48	
	eSS C	06.0	
	LmH B	31.4	
LmV B	35.8		
5.	eP A	03 01 34	<u>Mariana Islands</u> 19.98°N 147.20°E H = 02 47 55.4 h = 50 km MAG=5.7 D = 99.5° Az = 333.1° (USCGS) PPV:7.5s 0.9/um MPPV=6.3
	e A	01 41	
	e A	05 32	
	ePP B	05 37	
	e B	06 00	
5.	ePS C	14 24	
	ePP A	03 07 41	<u>Mariana Islands</u> H = 02 49 59.8 (UPP)
5.	iP A	08 08 49.0	<u>Honshu/Japan</u> 36.03°N 137.23°E H = 07 57 04.0 h = 272 km MAG=4.2 (USCGS) D = 81.3°
	e A	09 10	

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Day	Phase	h m s	Remarks
5.	e(P) e	A 08 34 13 A 34 32	
5.	eP e	A 08 34 50 A 35 08	<u>Algeria</u> 35 ¹ / ₂ ^o N 4.0 ^o E H = 08 31 05 (BCIS) D = 16.2 ^o
5.	e(P)	A 19 02 11	
5.	ePKP	A 21 49 33	<u>Fiji Islands Region</u> 17.65 ^o S 178.41 ^o W H = 21 30 53.2 h = 546 km MAG=4.4 D = 146.1 ^o Az = 348.5 ^o (USCGS)
5.	ePKHKP ePKP2 e	A 22 49 18.5 A 49 23.5 A 49 35	<u>West of Macquarie Is.</u> 53.16 ^o S 140.56 ^o E H = 22 29 35.0 h = normal MAG=5.0 D = 148.9 ^o Az = 286.3 ^o (USCGS)
5.	eP	A 23 10 26	<u>Southern Sumatra</u> 5.36 ^o S 102.45 ^o E H = 22 57 06.1 h = normal MAG=5.3 (USCGS) D = 94.6 ^o
5.	ePKP2	A 23 53 37	<u>Kermadec Islands</u> 31.08 ^o S 178.23 ^o W H = 23 33 06.0 h = 60 km MAG=5.2 (USCGS) D = 159.1 ^o PV:1.2s 20.5nm
6.	eP e e e LmH LmV	A 02 46 49 A 47 03 A 47 06 A 47 26 B 03 28.2 B 28.2	<u>Ryukyu Islands</u> 29.58 ^o N 129.78 ^o E H = 02 34 24.1 h = 31 km MAG=5.2 D = 83.3 ^o Az = 325.6 ^o (USCGS) LmH:16.5s 2.4 μ m LmV:16s 2.6 μ m MLH=5.7 MLV=5.7
6.	eP e e LmH LmV	A 06 29 57.5 A 30 00 A 30 03 B 07 09.9 B 11.6	<u>Near S. Coast of Honshu/Japan</u> 34.35 ^o N 139.03 ^o E H = 06 17 29.3 h = 13 km MAG=5.3 D = 83.5 ^o Az = 329.4 ^o (USCGS) PV2:1.6s 26.3nm PV3:1.7s 38.9nm LmH:14s 1.8 μ m LmV:14s 1.1 μ m

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Day	Phase	h m s	Remarks
cont. 6.			MPV2=5.1 MPV3=5.3 MLH=5.6 MLV=5.4 Successive P-onsets with increasing amplitude.
6.	eP e LmH LmV	A 09 02 07.5 A 02 12.5 B 41.8 B 45.7	<u>Near S. Coast of Honshu/Japan</u> 34.39 ^o N 139.07 ^o E H = 08 49 41.3 h = normal MAG=5.0 D = 83.5 ^o Az = 329.4 ^o (USCGS) PV:1.6s 19.0nm LmH:16s 1.2 μ m LmV:14s 0.7 μ m MPV=5.0 MLH=5.4 MLV=5.2
6.	1P LmH	A 09 19 11.2 B 59	<u>Near S. Coast of Honshu/Japan</u> 34.39 ^o N 139.09 ^o E H = 09 06 44.0 h = 25 km MAG=4.9 (USCGS) D = 83.5 ^o
6.	1Pg iSg	A 11 01 29.5 A 01 48.0	Explosion D = ca. 1.4 ^o
6.	eP	A 11 12 14	PV:1.4s 18.2nm
6.	e e	A 12 17 28 A 17 46.5	Near earthquake? e 17 40 e 17 48.5
6.	e(Sg)	A 12 27 50	
6.	eP e e ePP e e LmH LmV	A 12 35 39 A 36 01 A 39 31 B 39 42 A 40 00 C 54(32) B 13 19.2 B 22.5	<u>Mariana Islands Region</u> 20.13 ^o N 147.18 ^o E H = 12 21 57.0 h = 22 km MAG=5.7 D = 99.4 ^o Az = 333.1 ^o (USCGS) PV:1.8s 30.6nm PPV:9s 0.65 μ m LmH:16s 1.7 μ m LmV:16s 1.6 μ m MPV=5.6 MPPV=6.1 MLH=5.7 MLV=5.7 e 39 55 e 40 04 e 40 11 e 40 18 PP shows a distinct normal dispersion with periods from 2.7 s to 1.4 s in our short-period records.

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Day	Phase	h m s	Remarks
6.	eP	A 13 04 15	<u>Iran</u> 30.12°N 50.92°E H = 12 57 14.0 h = 10 km MAG=5.4 D = 35.7° Az = 316.3° (USCGS) PV:1.9s 46.7nm MPV=5.1
	e	A 04 33	
	e	A 04 51	
	e	A 05 50	
6.	e	A 13 50 50	<u>Yugoslavia</u> 42°4'N 19.0°E H = 13 46 08 (BCIS) D = 9.4°
	eSg	A 51 15	
	e	A 58 28	
6.	iPg	A 14 07 15.2	Explosion D = ca. 1.5°
	iSg	A 07 35.0	
6.	eP	A 23 41 20.5	<u>Near S. Coast of Honshu/Japan</u> 34.29°N 139.09°E H = 23 28 51.0 h = 15 km MAG=5.1 D = 83.6° Az = 329.4° (USCGS); h = 17 km PV:1.4s 15.2nm MPV=4.9
	epP	A 41 25	
	e	A 41 31	
6.	eP	A 23 44 29.5	<u>Near E. Coast of Honshu/Japan</u> 36.35°N 140.54°E H = 23 32 10.6 h = 44 km MAG=5.2 D = 82.4° Az = 330.0° (USCGS); (h = 52 km) PV:1.4s 30.3nm LmH:14.5s 1.6 μm LmV:15s 1.0 μm MPV=5.2 MLH=5.6 MLV=5.3
	e	A 44 37	
	e(pP)	A 44 43.5	
	e(sP)	A 44 47	
	LmH	B 00 21.4	
	LmV	B 22.9	
7.	iPg	A 09 55 22.5	<u>Explosion/GFR</u> 49.57°N 12.36°E D = 1.1°
	i	A 55 32.5	
	iSg	A 55 38.5	
7.	ePg	A 13 01 45.5	<u>Explosion/GDR</u> 51.29°N 12.73°E D = 1.0° Yield: 1.05 t
	iSg	A 02 01.5	
7.	eP	B 17 12 06	<u>Turkey</u> 37.40°N 36.13°E H = 17 07 16.2 h = 49 km MAG=4.8 D = 21.9° Az = 315.0° (USCGS)
	eP	A 12 07	
	e	A 13 16	

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Day	Phase	h m s	Remarks
cont.			
7.	eS	C 17 16 10	PV(A):2.4s 114nm SH(B):10s 1.3 μm LmH:11s 1.1 μm LmV:12s 1.1 μm MPV(A)=4.9 MSH(B)=5.2 MLH=4.5 MLV=4.6 Higher-mode surface waves are registered.
	iS	B 16 19	
	e	B 17 26	
	LmH	B 22.2	
	LmV	B 22.6	
7.	-eiP	B 18 38 23	<u>Turkey</u> 37.36°N 36.19°E H = 18 33 31.3 h = 39 km MAG=5.0 D = 22.0° Az = 315.0° (USCGS) PV(B):5.5s 0.65 μm PV(A):2.6s 174nm SH(B):11.5s 2.7 μm LmH:12s 1.8 μm LmV:14s 1.7 μm MPV(B)=5.3 MPV(A)=5.0 MSH(B)=5.4 MLH=4.7 MLV=4.7 e 38 30 e 38 36.5 e 39 03 e 40 11 i 43 40 Well developed higher-mode surface waves.
	+iP	A 38 24.6	
	eS	C 42 30	
	iS	B 42 34	
	eLi(3.70)B	44 32	
	eLg1(3.56)B	44 55	
	eLg2(3.30)B	45 50	
LmH	B 48.5		
LmV	B 48.9		
7.	+iP	A 19 50 23.5	<u>Sea of Okhotsk</u> 47.02°N 145.96°E H = 19 39 12.8 h = 296 km MAG=5.0 D = 75.2° Az = 58.5° (USCGS) PV:1.3s 25.0nm MPV=4.8 AN USSR gives: 46.7°N 146.2°E H = 19 39 16 h = 355 km D = 75.4°
8.	iPKIKP	A 05 53 51.5	<u>Fiji Islands Region</u> 19.87°S 178.59°W H = 05 35 17.1 h = 616 km MAG=5.3 D = 148.2° Az = 347.6° (USCGS); h = 623 km PV2:1.6s 121nm PV3:1.5s 67.5nm PV5:1.8s 150nm AN USSR gives: 19.9°S 177.3°W H = 05 35 02 h = 472 km D = 148.6°
	eiPKHKP	A 53 55.5	
	+eiPKP2	A 54 02	
	e	A 55 55	
	epPKHKP	A 56 16	
	e	A 37 38	

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Day	Phase	h m s	Remarks
8.	eP A	09 07 26	<u>Kurile Islands</u> 47.29°N 153.37°E H = 08 55 39.8 h = 60 km MAG=4.6 (USCGS) D = 77.0°
8.	e(Sg) A	11 02 26	Explosion
8.	i(Pg) A	13 00 11.5	Probably Upper Silesia
	iSn A	00 35.5	D = ca. 3.0°
	iSg A	00 48	
9.	e A	00 24 15	<u>West New Guinea Region</u> 3.97°S 135.78°E
	e A	24 37	H = 00 05 07.0 h = 15 km MAG=5.1 (USCGS)
	e(PP) B	24 40	D = 114.2°
	ePP A	24 48	LmH:18s 2.1 μ m LmV:20s 2.2 μ m
	ePS C	34 18	MLH=5.8 MLV=5.7
	eSS C	40.5	
	eSSS C	44.4	
	LmH B	01 09.0	
	LmV B	17.8	
9.	e A	01 23 29	
9.	ePKIKP A	01 46 53.5	<u>Fiji Islands</u> 19.66°S 177.99°W
	e1PKHKP A	46 57	H = 01 27 57.6 h = 415 km MAG=4.5
	iPKP2 A	47 01.2	D = 148.2° Az = 348.4° (USCGS) PV2:1.6s 37.9nm
9.	iPg A	07 08 10.5	<u>Italy</u> 45.9°N 10.9°E
	eSn A	08 40	H = 07 06 39 (BCIS)
	i(Sg) A	09 07	D = 4.8°
	e A	09 11	
	i A	09 27.5	
9.	ePKIKP A	09 16 01.5	<u>Solomon Islands</u> 7.24°S 155.85°E
	e A	16 12.5	H = 08 56 59.7 h = 40 km MAG=5.1
	LmH B	10 15.5	D = 127.5° Az = 332.0° (USCGS)
	LmV B	16.0	PV:1.3s 27.8nm LmH:20s 0.5 μ m LmV:19s 0.5 μ m MLH=5.2 MLV=5.3

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Day	Phase	h m s	Remarks
cont.			
9.			AN USSR gives: <u>Solomon Is.</u> 5.5°S 155.6°E H = 08 57 55 h = 700 km D = 127.5°
9.	LmH C	16 15.5	
	LmV C	15.5	
9.	ePKIKP A	21 37 38.5	<u>Solomon Islands</u> 7.27°S 155.71°E
	LmH B	22 25	H = 21 18 36.5 h = 44 km MAG=5.6 (USCGS) D = 127.5°
9.	eP A	22 04 31	<u>Kurile Islands</u> 45.55°N 151.6°E
	e A	04 47	H = 21 52 34.0 h = normal MAG=4.7 (USCGS) D = 78.0°
10.	ePKP A	00 17 01	<u>Tonga Islands Region</u> 17.67°S 172.97°W
	epPKP A	17 11.5	H = 23 57 24.9 h = 70 km MAG=4.9
	e(sPKP) B	17 18	D = 146.9° Az = 354.6° (USCGS);
	e A	17 29	h = ca. 40 km
	e A	17 39	PV1:1.9s 141nm PV2:2.0s 107nm
	LmH B	01 26	LmH:18s 0.5 μ m LmV:18s 0.5 μ m
	LmV B	26	MLH=5.3 MLV=5.3
10.	ePKIKP A	05 18 56.5	<u>Solomon Islands</u> 7.41°S 155.68°E
	epPKIKP A	19 05	H = 04 59 53.9 h = 37 km MAG=5.5
	ePP A	20 58	D = 127.6° Az = 331.9° (USCGS);
	epPP A	21 06	h = 30 km
	ePS C	30 56	PV:1.4s 28.6nm
	ePPS C	32 36	LmH:16s 1.6 μ m LmV:17s 0.7 μ m
	eSS C	38.0	MLH=5.8 MLV=5.4
	LmH B	06 17.7	
	LmV B	17.7	
10.	e(P) A	07 36 25	
10.	ePKIKP A	15 21 45	<u>Solomon Islands</u> 7.30°S 155.80°E
	-iPKIKP A	21 46.5	H = 15 02 42.2 h = 29 km MAG=5.6
	e(pPKIKP)A	21 55	D = 127.6° Az = 332.0° (USCGS); (h = 30 km)

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Day	Phase	h m s	Remarks
cont.			
10.	ePP B	15 23 47	PV2:1.4s 54.5nm PPV:13s 0.8/um
	ePPP B	26 30	LmH:18s 3.5/um LmV:19s 4.9/um
	ePS C	33 50	MPPV=5.9 MLH=6.1 MLV=6.2
	eSKKP A	35 07	i 21 49.5 e 25 00
	ePPS C	35 20	
	eSS C	40 55	
	eSSS C	45.5	
	LmH B	16 21.5	
	LmV B	21.7	
10.	eSS C	17 34.0	<u>South Pacific Ocean</u> 63.56°S 167.29°W
	eSSS C	40.4	H = 16 47 49.7 h = normal MAG=5.4 (USCGS)
	e C	46.2	D = 167.0°
	LmH B	18 27.7	LmH:21.5s 3.3/um LmV:19s 4.5/um
	LmV B	28.2	MLH=6.1 MLV=6.3
10.	iP A	19 12 04.5	<u>Colorado</u> 39.92°N 104.78°W
			H = 19 00 25.6 h = 5 km MAG=4.8 (USCGS)
			D = 74.1°
10.	+iP A	20 08 42.0	<u>Alaska Peninsula</u> 58.61°N 154.25°W
	+i A	08 43.6	H = 19 57 34.4 h = 86 km MAG=5.5 (USCGS)
	e A	08 47	D = 70.5° h = 98 km
	-ipP A	09 06.0	PV:0.9s 47.0nm pPV:1.2s 41.0nm
	esP A	09 18	SH:4.5s 0.5/um
	iS B	17 50	MPV=5.3 MSH=5.7
			e 09 15.5 e 09 22 e 09 32
10.	e(PKP2) A	21 23(15)	<u>South of Fiji Islands</u> 24.11°S 176.30°W
	e A	23 20	H = 21 03 32.2 h = 205 km MAG=4.7 (USCGS)
	e A	23 30	D = 152.8°
10.	ePKIKP A	21 26 43.5	<u>Solomon Islands</u> 7.39°S 155.68°E
			H = 21 07 47.5 h = 103 km MAG=5.4
			D = 127.6° Az = 331.9° (USCGS)
			AN USSR gives: 6.0°S 155.9°E
			H = 21 08 54 h = 713 km
			D = 127.6°

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Day	Phase	h m s	Remarks
10.	ePKIKP A	22 08 22.5	<u>Solomon Islands</u> 7.28°S 155.90°E
	e A	08 32	H = 21 49 19.5 h = 39 km MAG=5.3 (USCGS)
	LmH B	23 07.8	D = 127.6°
	LmV B	08.7	PV:1.2s 18.0nm
			LmH:20s 0.6/um LmV:20s 0.8/um
			MLH=5.3 MLV=5.4
11.	ePKIKP A	05 11 48	<u>Solomon Islands</u> 7.42°S 155.73°E
			H = 04 52 48.3 h = 86 km MAG=5.5 (USCGS)
			D = 127.5°
11.	ePP A	05 27 32	<u>Celebes</u> 3.31°S 119.23°E
	eSS C	42.0	H = 05 09 12.1 h = 21 km MAG=5.2 (USCGS)
	e B	44.6	D = 103.7°
	e C	45.4	LmH:18s 1.4/um LmV:20s 1.7/um
	LmH B	06 15	MLH=5.5 MLV=5.6
	LmV B	15.0	
11.	eN B	05 59 48	
	eE B	59 56	
11.	e(Pg) A	12 27 42	Probably explosion
	e A	29 08	
	e A	29 25	
11.	eP A	12 53 32	<u>Leeward Islands</u> 18.84°N 62.66°W
	e A	53 43	H = 12 42 47.7 h = 49 km MAG=5.2 (USCGS)
	eiS C	13 02 16	D = 65.7°
	eSoS C	03 28	LmH:17s 1.4/um LmV:17s 2.4/um
	LmH B	20.0	MLH=5.2 MLV=5.5
	LmV B	20.0	e 54 24.5
11.	iPg A	14 10 46.0	<u>Explosion/GDR</u> 51.37°N 12.89°E
	iSg A	11 02.0	D = 1.0° Yield:4.54 t
12.	LmV B	03 11.5	<u>Bismarck Sea</u> 3.10°S 148.09°E
	LmH B	12.0	H = 02 00 15.9 h = normal MAG=4.9 (USCGS)
			D = 120.2°
			LmH:20s 0.6/um LmV:22s 1.1/um
			MLH=5.3 MLV=5.5

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Day	Phase	h m s	Remarks
12.	eIPKP A	04 50 56	<u>New Hebrides Islands</u> 19.21°S 168.90°E H = 04 31 45.3 h = 200 km MAG=4.7 D = 143.8° Az = 335.4° (USCGS) PV:1.0s 28.6nm AN USSR gives: H = 04 31 24 h = normal
12.	eP1 A	05 03 59	<u>Northern Sumatra</u> 5.29°N 96.50°E
	+1P2 A	04 05.5	H = 04 51 40.2 h = 55 km MAG=6.1
	-1P3 B	04 09	D = 82.7° Az = 320.3° (USCGS)
	IS1 B	14 14	PV2:1.5s 153nm PV3:9.5s 5.1 μ m
	IS3 B	14 22	SH3:15s 6.7 μ m PKPPKPV:2.0s 66.6nm
	ePKPPKP A	30 31	LmH:17s 12.7 μ m LmV:19s 14.0 μ m
	eSKPPKP A	33 55	MPV2=5.9 MPV3=6.6 MSH3=6.6 MLH=6.4
	LmV B	47.7	MLV=6.4
	LmH B	48.6	Multiple P-onsets with successive in-creasing amplitude. P1 is a small-am-plitude precursor. P3 is recorded in our long-period records only, followed by ab-normally long-period P-waves (T = 16 - 22 s). PKPPKP and SKPPKP are very clear.
12.	eP A	05 23 35	<u>Northern Sumatra</u> 5.53°N 96.66°E
	e A	23 40	H = 05 11 14.1 h = normal MAG=5.7 (USCGS) D = 82.6° PV:1.6s 19.0nm
12.	eP A	05 30 24	<u>Northern Sumatra</u> 5.63°N 96.66°E
	e A	30 28	H = 05 18 11.9 h = 102 km MAG=5.0 (USCGS) D = 82.5°
12.	IPg A	12 56 18.0	<u>Explosion/GDR</u> 51.25°N 12.66°E
	ISg A	56 32.3	D = 1.0° Yield: 8.45 t
	LmV A	56 46	LmH:1.3s 29.4nm LmV:1.6s 30.3nm
	LmH A	56 48	
12.	ePKIKP A	14 13 59	<u>Solomon Islands</u> 7.34°S 155.63°E
	e A	14 05.5	H = 13 54 57.2 h = 52 km MAG=5.2
	ePP B	16 00	D = 127.5° Az = 331.9° (USCGS)
	e(SKP) B	17 44	PV1:1.4s 28.6nm PV2:1.2s 20.5nm

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Day	Phase	h m s	Remarks
cont.			
12.	eSPP B	14 27(30)	LmH:20s 0.8 μ m
	eSS C	33.1	MLH=5.4
	LmH B	15 01.3	e 14 22 e 18 32
12.	eP A	14 45 27	<u>Near Coast of Oaxaca/Mexico</u> 15.21°N 94.02°W H = 14 32 39.1 h = normal MAG=4.7 (USCGS) D = 88.0°
12.	ePKP A	15 10 50	<u>Solomon Islands</u> 7.45°S 155.72°E
	e(PKIKP) A	10 55	H = 14 51 49.4 h = 21 km MAG=5.3 (USCGS)
	e A	10 58.5	D = 127.7°
	ePP A	12 58	
12.	eP A	16 08 18	<u>Gulf of Alaska</u> 59.42°N 144.51°W
	e A	08 22	H = 15 57 09.6 h = 10 km MAG=4.1 (USCGS)
	e A	08 39	D = 68.7°
12.	LmH C	22 27	<u>Off Coast of Northern Chile</u>
	LmV C	27	35.52°S 73.29°W H = 21 22 09.3 h = 12 km MAG=5.3 (USCGS) D = 113.5°
13.	eIPKP A	04 33 51.5	<u>New Hebrides Islands</u> 18.74°S 168.85°E H = 04 14 33.6 h = 123 km MAG=5.2 D = 143.4° Az = 335.6° (USCGS) PV:1.2s 41.0nm AN USSR gives: 19.7°S 169.4°E H = 04 14 14 h = normal D = 144.4°
13.	eP A	08 38 01	<u>Northern Sumatra</u> 5.45°N 96.65°E
	e A	39 35	H = 08 25 43.8 h = 68 km MAG=5.2 (USCGS)
	ei A	39 40	D = 82.7°
	e A	40 11	
	e A	40 44	
13.	e(P) A	16 48 58	

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Day	Phase	h m s	Remarks
13.	iPKP A	17 32 18.0	<u>Fiji Islands Region</u> 17.96°S 178.56°W H = 17 13 43.5 h = 610 km MAG=5.0 D = 146.4° Az = 348.3° (USCGS)
13.	eP A	18 51 35	<u>Kamchatka</u> 52.08°N 157.57°E
	i A	51 57.0	H = 18 40 07.7 h = 50 km MAG=5.3 (USCGS) D = 73.6° AN USSR gives: 52.0°N 157.7°E H = 18 40 15 h = 145 km D = 72.8°
13.	+iP A	20 06 13.0	<u>Ryukyu Islands</u> 27.33°N 128.69°E
	e A	07 20	H = 19 53 42.4 h = 38 km MAG=6.0
	e A	07 35	D = 84.6° Az = 325.3° (USCGS)
	ePP A	09 29	PV:2.1s 455nm PPV:1.5s 33.3nm
	eS B	16 40	MPV=6.3 MPPV=5.6
13.	-iP A	20 12 39.0	<u>Guerrero/Mexico</u> 18.48°N 100.21°W
	e A	12 45.5	H = 19 59 51.9 h = 86 km MAG=5.6
	e(pP) A	12 57	D = 88.9° Az = 36.2° (USCGS);
	e A	13 02	(h = 68 km)
	eiS B	23 28	PV:1.6s 68.2nm SH:8s 0.8 μ m
	LmH B	41.1	LmH:19s 1.4 μ m LmV:16s 0.8 μ m
	LmV B	49.0	MPV=5.6 MSH=6.0 MLH=5.4 MLV=5.2
13.	LmH B	20 48.8	LmH:18s 0.9 μ m LmV:16s 0.6 μ m
	LmV B	55.0	
14.	eP A	05 31 29.5	<u>Guerrero/Mexico</u> 17.53°N 100.22°W
	e(pP) A	31 50.5	H = 05 18 35.8 h = 62 km MAG=4.9 (USCGS) D = 89.7° (h = 79 km)
14.	iPg A	08 33 18.2	Explosion
	eSg A	33 34.5	D = ca. 1.2°
14.	e(Sg) A	10 32 43	Explosion?
	e A	32 47	
	LmH A	33 04	

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Day	Phase	h m s	Remarks
14.	LmH C	13 53	LmH:20s 0.3 μ m LmV:20s 0.4 μ m
	LmV B	53	
14.	iPg A	15 05 20.5	Explosion
	i A	05 35	D = ca. 1.2°
	iSg A	05 36.0	
14.	e(P) A	20 40 59	
	i A	41 34	
14.	iP A	23 48 04.5	LmH:16s 0.3 μ m
	e A	48 08	
	i A	51 49.5	
	LmH C	53.5	
	LmV B	55	
15.	eiPn A	02 09 48	<u>Yugoslavia</u> 44.3°N 16.3°E
	eiSn A	11 05.5	H = 02 08 04 (BCIS)
	iLg1(3.48) A	11 50.5	D = 7.1°
	e(Sg) A	11 55.5	e 10 02 e 10 36.5 e 11 38.5 i 11 47.0
	iLg2(3.29) A	12 03.5	
15.	eP A	17 06(13)	<u>Red Sea</u> 20.75°N 38.73°E
	e A	06 18	H = 16 59 07.3 h = normal MAG=4.9 (USCGS)
	LmH C	25	D = 36.6°
	LmV B	25.0	LmH:20s 0.5 μ m LmV:20s 0.4 μ m MLH=4.3 MLV=4.3
15.	eP A	21 07 42	<u>Andreanof Is./Aleutian Is.</u>
	e A	07 52	H = 20 55 46.9 h = 49 km MAG=4.9 (USCGS)
	e A	07 55	D = 78.0°
15.	e(P) A	22 34 06.5	
15.	+iP A	23 47 45.5	<u>Hokkaido/Japan Region</u> 41.92°N 142.27°E
	iPcP A	47 56.0	H = 23 35 51.1 h = 66 km MAG=4.9
	ei A	47 59	D = 78.2° Az = 330.4° (USCGS)
	ei A	48 06	PV:1.0s 16.6nm
	LmH B	00 25	MPV=5.1
	LmV B	25	

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Day	Phase	h m s	Remarks
16.	e(Sg)	A 07 17 10	Explosion?
16.	+ePKIKP	A 07 37 50	<u>South of Fiji Islands</u> 19.41°S 175.87°E
	iPKHKP	A 37 51.8	H = 07 18 11.8 h = 38 km MAG=5.3
	eiPKP2	A 37 54	D = 146.4° Az = 341.8° (USCGS)
	e	A 38 04	AN USSR gives: Sea of Okhotsk
	e	A 38 35	52.0°N 151.5°E H = 07 26 26 h = normal D = 72.2°
16.	ePKIKP	A 07 49 31.5	<u>Tonga Islands Region</u> 21.6°S 176.1°W
	e	A 49 35	H = 07 29 48 h = normal MAG=5
	ePKP2	A 49 44	D = 150.4° (AN USSR)
	LmH	C 09 08	e 49 40 e 49 57.5
16.	eP	A 10 04 40	<u>North of Aszension Island</u> 0.12°N 17.32°W
	e	A 05 32.5	H = 09 55 00.9 h = normal MAG=4.8 D = 56.0° Az = 21.8° (USCGS)
16.	+iP1	A 10 22 03.5	<u>Kurile Islands</u> 46.43°N 153.32°E
	iP2	A 22 07.5	H = 10 10 06.7 h = 24 km MAG=5.3
	ei	A 22 14.5	D = 77.8° Az = 336.2° (USCGS)
	e	A 23 07	PV2:1.7s 87.0nm
	LmH	B 58.3	LmH:16s 1.1/um LmV:15s 1.3/um
	LmV	B 11 03.5	MPV2=5.6 MLH=5.3 MLV=5.4 Multiple P-onsets.
17.	e(P)	A 05 05 17.5	
17.	i(Sg)	A 09 31 19	<u>Explosion/ČSSR</u> 50.18°N 14.40°E D = 1.8° Yield: 8.6 t
17.	iPKIKP	A 11 37 37	<u>Santa Cruz Islands</u> 12.51°S 166.31°E
	e	A 37 41.5	H = 11 18 19.3 h = 45 km MAG=4.9 (USCGS)
	ePP	A 40 18	D = 136.8°
	eSKP	A 41 13	LmV:20s 0.7/um
	e	C 53.4	MLV=5.4
	LmV	B 12 40.2	e 37 50 e 38 07.5 e 40 27 e 41 23

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Day	Phase	h m s	Remarks
17.	LmH	B 11 57.3	<u>Taiwan Region</u> 24.91°N 122.15°E
	LmV	B 12 00.9	H = 11 07 12.9 h = 31 km MAG=5.0 (USCGS) D = 83.1° LmH:14s 0.9/um LmV:12s 0.6/um MLH=5.3 MLV=5.2
17.	e	A 15 25 55	Probably near earthquake
	e	A 26 15	e 26 47
	e(Sg)	A 26 43	
17.	ePKIKP	A 18 04 33	<u>Fiji Islands Region</u> 20.63°N 178.18°W
	ePKHKP	A 04 38.5	H = 17 45 52.2 h = 570 km MAG=4.5
	ePKP2	A 04 45	D = 149.1° Az = 347.8° (USCGS) PV2:1.3s 22.2nm
17.	eP1	A 21 42 50.5	<u>Cyprus</u> 34.61°N 32.96°E
	iP2	A 42 53.0	H = 21 37 54.5 h = normal MAG=4.8
	e	A 43 08.5	D = 22.3° Az = 322.4° (USCGS)
	e	A 43 13.5	PV1:1.0s 19.1nm PV2:1.1s 61.0nm MPV1=4.5 MPV2=5.0
17.	eP	A 22 10 13	<u>Cyprus</u> 34.51°N 33.10°E
	i	A 10 14.2	H = 22 05 17.6 h = 40 km D = 22.5° Az = 322.4° (USCGS) PV2:1.2s 30.8nm MPV2=4.7
18.	e(PKP)	A 20 32 53	PV2:1.0s 23.6nm
	ei	A 32 54.5	
	e	A 33 10	
19.	e(Sg)	A 04 25 22	Explosion?
19.	e	A 10 59 18	
19.	+iPKHKP	A 17 33 21.2	<u>Fiji Islands Region</u> 20.63°S 177.99°W
	ePKP2	A 33 27.5	H = 17 14 24.1 h = 449 km MAG=4.9
	e	A 33 33	D = 149.1° Az = 348.1° (USCGS) PV:1.4s 24.2nm

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Day	Phase	h m s	Remarks
19.	eP	A 22 08(09)	<u>Dominican Republic Region</u> 18.84°N 69.63°W H = 21 57 05.1 h = 103 km MAG=5.0 (USCGS) D = 70.2° h = 108 km P is smaller than pP and sP. AN USSR gives: 18.1°N 70.0°W H = 21 56 54 h = normal D = 71.0°
	epP	A 08 35.5	
	esP	A 08 47.5	
	e	A 08 59	
20.	+iP	A 04 15 47.2	<u>Eastern Kazakh SSR</u> 49.74°N 78.12°E H = 04 07 57.6 h = 0 km MAG=5.7 D = 41.3° Az = 297.7° (USCGS) PV:0.8s 80.2nm MPV=5.7 Probably underground explosion.
	i	A 15 54.0	
	ePn	A 17 19	
	ePP	A 17 24.5	
	e	A 17 29	
20.	iPg	A 14 10 09.5	<u>Explosion/GDR</u> 51.37°N 12.89°E D = 1.0°
	iSg	A 10 25.5	
21.	ePKIKP	A 08 32(56)	<u>Banda Sea</u> 5.45°S 126.86°E H = 08 14 25.0 h = normal MAG=5.5 D = 110.1° Az = 322.2° (USCGS) LmH:20s 2.8/um LmV:17s 2.7/um MLH=5.8 MLV=5.9 e 33 16 e 33 38 e 34 19 e 35 02 e 36 06 e 52 20
	ePP	A 33 33	
	eS	C 41 04	
	ePPS	C 44 06	
	eSS	C 49(02)	
	eSSS	C 56 18	
	eLQ	C 59.2	
	LmH	B 09 25.5	
	LmV	B 34	
	21.	e(Sg)	
21.	iPKHKP	A 14 57 01.0	<u>Fiji Islands Region</u> 20.59°S 177.55°W H = 14 38 02.8 h = 454 km MAG=4.9 D = 149.1° Az = 348.6° (USCGS) PV:1.6s 22.7nm
	ePKP2	A 57 06.5	
21.	e	A 21 49 42.5	Probably Northeast of Jan Mayen H = 21 44 13 (UPP)
	e	A 49 48	

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Day	Phase	h m s	Remarks
22.	e(P)	A 00 10 43	Probably Northeast of Jan Mayen H = 00 05 46 (UPP)
	e	A 10 49	
22.	ePP	B 08 56 36	<u>Banda Sea</u> 5.6°S 126.82°E H = 08 37 25.5 h = normal MAG=5.2 (USCGS) D = 110.2° LmH:19s 0.65/um LmV:18s 0.75/um MLH=5.2 MLV=5.3 e 56 45 e 56 54 e 01 15
	ePS	C 09 05.9	
	ePPS	C 07 00	
	eLQ	C 22.3	
	LmH	B 55.6	
22.	LmV	B 55.6	e 56 45 e 56 54 e 01 15
	e(P)	A 12 22 41	
22.	e	A 22 53	<u>Greenland Sea</u> 73.45°N 8.41°E H = 12 17 34.5 h = normal MAG=4.7 D = 22.9° Az = 174.8° (USCGS) PV:1.2s 13.6nm MPV=4.4 The first onset of P must be about 5 s earlier.
	e	A 23 12	
	e	A 23 12	
22.	+eP	A 13 19 59	<u>Northern Sumatra</u> 5.13°N 96.43°E H = 13 07 38.1 h = 42 km MAG=5.4 D = 82.8° Az = 320.3° (USCGS) PV:2.0s 81.5nm LmH:19s 0.9/um LmV:18s 0.9/um MPV=5.5 MLH=5.2 MLV=5.2
	e	A 20 19	
	e	A 20 43	
	ePP	A 23 12.5	
	LmH	B 14 03	
22.	LmV	B 03	MPV=5.5 MLH=5.2 MLV=5.2
	eP	A 14 56(02)	
22.	e	A 56 06.5	<u>Panama-Costa Rica Border Region</u> 8.30°N 82.80°W H = 14 43 21.4 h = 40 km MAG=5.0 (USCGS) D = 86.4° LmH:16s 0.4/um LmV:16s 0.5/um MLH=4.9 MLV=5.0
	e	A 57 09	
	LmH	B 15 35.5	
	LmV	B 35.5	
	LmV	B 35.5	
23.	eP	A 06 50(11)	<u>North Atlantic Ocean</u> 57.02°N 33.78°W H = 06 44 26.2 h = normal MAG=4.3 (USCGS) D = 27.2°
	e	A 50 16	
	e	A 50 40	
23.	e(Pg)	A 08 39 31	Near earthquake (D = ca. 5.5°) e 39 33 e 39 37
	e	A 40 14.5	
	e(Sg)	A 40 43	

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Day	Phase	h m s	Remarks
23.	eP1	A 09 34 03.5	<u>Algeria</u> 36.31°N 2.45°E
	eIP2	A 34 06.2	H = 09 30 22.0 h = normal MAG=4.8
	e	A 34 11	D = 15.8° Az = 21.9° (USCGS)
	i	A 34 20.5	PV2:1.3s 41.6nm PV3:1.1s 24.4nm
	i	A 34 46.5	LmH:12s 1.5/um LmV:14s 0.7/um
	LmH	B 40.3	MLH=4.4 MLV=4.1
	LmV	B 40.3	eP1 is a small-amplitude precursor.
23.	eP	A 14 04 01	<u>Mindanao/Philippine Is.</u> 8.60°S 126.49°E
	e	A 04 24	H = 12 50 24.9 h = 43 km MAG=5.3 (USCGS)
	LmH	B 52	D = 98.7°
	LmV	B 52	e 04 49
23.	eP	A 15 12 49	<u>North Indian Rise</u> 1.59°N 80.23°E
	epP	A 12 56.5	H = 15 01 06.8 h = normal MAG=5.1
	e	A 13 04	D = 75.3° Az = 322.2° (USCGS); h = 29 km
	e	A 13 26	pPV:1.2s 15.4nm
	LmH	C 46.5	LmH:22s 0.2/um The amplitude of pP is much greater than that of P.
23.	ePP	A 18 11 12	<u>South of Mariana Islands</u> 13.50°N 146.14°E
	LmH	B 19 03.5	H = 17 52 51.0 h = 56 km MAG=5.6 (USCGS)
	LmV	B 07.5	D = 104.8° PPV:1.4s 15.2nm LmH:16s 0.5/um LmV:14s 0.4/um MPPV=5.4 MLH=5.1 MLV=5.1
23.	eP	A 22 38 08.5	<u>Costa Rica</u> 8.10°N 83.26°W
	e	A 38 14	H = 22 25 27.4 h = 46 km MAG=4.5 D = 86.9° Az = 39.4° (USCGS) PV:0.9s 11.8nm MPV=5.1
24.	-eIP	A 08 59 22.5	<u>Tadzhik SSR</u> 37.40°N 72.66°E
	ePP	A 09 01 02	H = 08 51 10.9 h = 31 km MAG=5.6
	e(Pn)	A 01 30	D = 44.6° Az = 307.5° (USCGS)
	ePPP	A 01 43	PV:1.3s 69.5nm
	eS	C 06.2	LmH:14s 1.6/um LmV:14s 2.1/um

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Day	Phase	h m s	Remarks
cont.			
24.	eSS	C 09 09.3	MPV=5.5 MLH=5.1 MLV=5.3
	eIQ	C 09 40	e 59 26.5 e 00 22
	LmH	B 20.1	Higher-mode surface waves are registered.
	LmV	B 20.1	
24.	+eP	A 11 57 56	<u>Mid-Indian Rise</u> 24.00°S 69.60°E
	e	A 58 03	H = 11 44 58.1 h = normal MAG=5.0
	e	A 58 07.5	D = 90.2° Az = 327.3° (USCGS) PV1:2.0s 53.3nm PV2:1.6s 34.1nm MPV=5.4
24.	+iP	A 15 23 27.0	<u>E. Russia-N.E China Border Region</u> 42.43°N 131.03°E H = 15 12 48.2 h = 521 km MAG=4.2 D = 73.3° Az = 324.6° (USCGS) PV:1.0s 23.8nm MPV=4.6
	e	A 04 03 09	
25.	+iP	A 10 39 29.8	<u>Northern Sinkiang Prov./China</u>
	+ipP	A 39 39.5	43.33°N 87.04°E
	esP	A 39 43.5	H = 10 30 37.8 h = 34 km MAG=5.2
	e	A 40 28	D = 49.9° Az = 306.3° (USCGS); h = 40 km
	LmH	B 11 01.5	PV:1.4s 33.4nm pP:1.4s 27.2nm
	LmV	B 01.5	sP:1.6s 45.5nm LmH:16s 0.7/um LmV:18s 0.9/um MPV=5.2 MLH=4.8 MLV=4.8
	ePKIKP	A 10 54 43	<u>Mendoza Prov./Argentina</u> 32.88°S 69.01°W
25.	e	A 56 43	H = 10 36 14.3 h = 39 km MAG=5.7 (USCGS)
	e(SKP)	A 58 25	D = 109.3°
	LmH	C 11 38.0	e 57 28 e 59 29.5
25.	ePKP2	A 15 44 29	<u>Kermadec Islands Region</u> 29.09°S 178.16°W
			H = 15 24 25.9 h = 210 km MAG=4.5 (USCGS) D = 157.1°

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Day	Phase	h m s	Remarks
26.	-ePKP A	06 54 46	<u>Tonga Islands</u> 15.60°S 173.84°W H = 06 35 24.7 h = 140 km MAG=4.4 D = 144.8° Az = 354.0° (USCGS) PV:1.0s 14.3/um
26.	e(Sg) A	13 05 53	Explosion?
26.	eP1 A	13 24 07	<u>South Indian Ocean</u> 1.25°S 89.45°E
+iP2	A	24 16.5	H = 13 11 42.3 h = normal MAG=5.1
e	A	24 36	D = 83.3° Az = 321.2° (USCGS)
e	A	24 41	PV2:1.3s 30.6nm PV3:1.3s 19.5nm
ei	A	24 53	PV4:1.4s 24.2nm
LmH	C	14 04.5	MPV2=5.3
LmV	C	06	The amplitude of P2 is much greater than that of P1. Two separated shocks in the same focus?
26.	iPg A	14 16 12.5	<u>Explosion/GDR</u> 51.37°N 12.89°E
iSg	A	16 28.5	D = 1.0° Yield: 1.8 t
26.	ePKP A	22 06 04	<u>Fiji Islands Region</u> 16.5°S 175.6°E H = 21 46 41.2 h = 116 km MAG=4.8 (USCGS) D = 143.6° AN USSR gives: H = 21 46 31 h = normal
27.	LmH B	01 48.5	LmH:22s 0.6/um LmV:20s 1.0/um
	LmV B	49.5	
27.	e(Sg) A	07 50 38.5	
27.	e(PP) A	08 29(37)	<u>Near N. Coast of West New Guinea</u>
e	A	29 53	1.84°S 138.69°E
eSKKS	C	37.0	H = 08 09 47.9 h = normal MAG=5.3 (USCGS)
e	C	45.2	D = 114.2°
LmH	B	09 22	LmH:18s 1.4/um LmV:18s 2.2/um
LmV	B	22.2	MLH=5.6 MLV=5.8
27.	iPg A	13 13 46.0	<u>Explosion/GDR</u> 51.29°N 12.73°E
iSg	A	14 02.0	D = 1.0° Yield: 2.45 t

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Day	Phase	h m s	Remarks
27.	iPg A	14 03 21.5	<u>Explosion/GDR</u>
eiSg	A	03 37.5	D = 1.0°
27.	i A	14 17 56	
27.	i A	17 46 46	
27.	e A	21 37 14	Near earthquake
e(Sg)	A	38 31	e 37 46 e 38 25 e 38 37.5
27.	+iP A	23 23 56.8	<u>Southern Sinkiang Prov./China</u>
epP	A	24 00.5	41.65°N 82.29°E
e	B	39 35	H = 23 15 19.7 h = normal MAG=5.0
eLg1(3.47)B	B	41 00	D = 48.0° Az = 306.1° (USCGS); h = 16 km
eLg2(3.34)B	B	42 00	PV:1.1s 26.7nm pPV:1.4s 33.3nm
e	B	43 50	LmH:10s 1.0/um LmV:11s 1.0/um
LmH	B	44.8	MPV=5.2 MLH=5.1 MLV=5.1
LmV	B	44.8	Clear developed higher-mode surface waves.
28.	ePKIKP A	08 03 58	<u>Santa Cruz Islands</u> 11.48°S 165.81°E H = 07 44 37.3 h = 30 km MAG=4.7 (USCGS) D = 135.7°
28.	e A	08 20 12	
28.	e(Sg) A	09 02 26	Explosion (PRUHONICE)
e	A	02 44	
28.	e(Sg) A	10 32 12	
e	A	32 16	
28.	e(P) A	12 41 55.5	
28.	i(Sg) A	12 17 48.8	Near earthquake?
28.	iPg A	19 15 33.0	Explosion
iSg	A	15 47.5	D = ca. 1.1°

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Day	Phase	h m s	Remarks
28.	eP	A 19 46 12	<u>Southern Iran</u> 28.48°N 57.49°E H = 19 38 28.9 h = 24 km MAG=4.8 (USCGS) D = 40.9° e 46 35 e 47 25
	e(PPP)	A 48 25	
	LmH	B 20 06.5	
	LmV	B 06.5	
29.	eiP	A 00 16 21	<u>Queen Charlotte Is. Region</u> 51.16°N 130.37°W H = 00 04 41.8 h = 6 km MAG=5.1 D = 73.5° Az = 24.1° (USCGS) PV:1.0s 28.6nm LmH:20s 2.0 μ m LmV:14.5s 2.1 μ m MPV=5.4 MLH=5.4 MLV=5.6
	e	A 16 24.5	
	eS	C 25 55	
	eSS	C 30(36)	
	LmH	B 47.8	
	LmV	B 53.3	
29.	+iP	A 04 07 15.1	<u>Andreanof Is./Aleutian Is.</u> 51.44°N 178.25°W H = 03 55 20.8 h = 50 km MAG=6.0 D = 77.9° Az = 353.6° (USCGS); h = 59 km PV:1.5s 180nm PcPV:1.2s 30.8nm LmH:18s 1.3 μ m LmV:19s 1.8 μ m MPV=6.0 MLH=5.3 MLV=5.5 i 08 32.5 e 09 26 e 10 07 e 10 24 e 10 30
	e	A 07 19.5	
	ePoP	A 07 24.5	
	epP	A 07 30.5	
	eS	C 17(10)	
	e(SoS)	C 17 40	
	ePPS	C 18 08	
	eSS	C 22 20	
	LmH	B 46	
	LmV	B 46	
	29.	e(P)	
e		A 05 37	
29.	eiP	A 12 37 26	<u>Andreanof Is./Aleutian Is.</u> 51.48°N 178.24°W H = 12 25 32.7 h = 51 km MAG=5.3 D = 77.9° Az = 353.6° (USCGS); h = 59 km
	epP	A 37 41.5	
29.	ePKP	A 12 50 40	<u>Tonga Islands Region</u> 15.6°S 173.8°W H = 12 31 09.4 h = 59 km MAG=4.6 (USCGS) D = 144.8°
29.	eP	A 22 14 33.5	<u>Near E. Coast of Honshu/Japan</u> 35.81°N 140.79°E H = 22 02 09.5 h = 49 km MAG=4.9 (USCGS) D = 83.0° h = 50 km
	e	A 14 40	
	epP	A 14 47	
	LmH	B (49)	

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Day	Phase	h m s	Remarks
30.	ePP	A 07 27 44	<u>New Britain Region</u> 6.35°S 150.54°E H = 07 07 00.5 h = 32 km (USCGS) D = 124.2° LmV:17s 0.4 μ m MLV=5.2
	e	C 48 56	
	e	C 51(24)	
	LmH	B 08(29)	
	LmV	B 29.5	
30.	e	A 14 05 59	
	e	A 06 03	
30.	LmH	C 17 22.4	Probably Guatemala (USCGS)
30.	eSS	C 17 34	<u>Near N. Coast of W. New Guinea</u> 1.77°S 138.74°E H = 16 59 00.6 h = normal MAG=5.5 (USCGS) D = 114.1° LmH:20s 1.3 μ m LmV:20s 1.9 μ m MLH=5.5 MLV=5.7
	LmH	B 18 11.5	
	LmV	B 11.5	

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Day	Phase	h m s	Remarks
1.	iP	A 06 54 08.8	<u>Unimak Island Region</u> 53.90°N 163.34°W H = 06 42 23.7 h = normal MAG=4.0 D = 75.7° Az = 3.3° (USCGS)
1.	eP1	A 07 12 06	<u>Greece</u> 39.72°N 21.34°E
	+ePL	B 12 07	H = 07 09 00.5 h = 15 km MAG=5.6
	eP2	A 12 08	D = 12.9° Az = 331.2° (USCGS)
	-iP3	A 12 12.8	PLV:13.5s 4.2/um PLH:15s 3.1/um
	i(PP)	A 12 15.5	PV2:1.2s 28.1nm PV3:1.5s 168nm
	eISS	B 14 54	SSH:10s 9.8/um
	LmH	B 16.6	LmH:13.5s 136.5/um LmV:8.5s 62.5/um
	LmV	B 17.8	MLH=6.2 MLV=6.2
			Successive P-onsets with increasing amplitude in our short-period records. Clear PL-waves in the long period registrations.
1.	eP	A 08 31 29	<u>Greece</u> 39.46°N 21.29°E H = 08 28 22.3 h = normal MAG=4.5 (USCGS) D = 13.1°
1.	eP	A 09 50 49	<u>Greece</u> 39.76°N 21.49°E
	i	A 51 03	H = 09 47 42.9 h = 27 km MAG=4.7 D = 12.9° Az = 330.7° (USCGS)
1.	eP	A 09 53 13	<u>Greece</u> 39.64°N 21.40°E
	e(PP)	A 53 22	H = 09 50 06.6 h = 19 km MAG=4.9
	e(PPP)	A 53 28.5	D = 13.0° Az = 331.2° (USCGS)
	e	A 53 36.5	(PP)V:1.0s 11.8nm (PPP)V:1.2s 25.5nm
	e	A 54 29	LmH:10.5s 3.4/um LmV:12s 1.9/um
	e	A 54 33	MLH=4.6
	e	A 54 38	e(PP) and e(PPP) are much bigger than P.
	e	A 54 50	After Bath the short-period record (Z) at
	e	A 54 58	Umea in several shocks in this series from
	LmV	B 59	Greece exhibits also a clear phase, about
	LmH	B 59.3	10 - 12 s later than P and much bigger than the proper P. Our e(PP) probably correspond to this phase.

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Day	Phase	h m s	Remarks
1.	eP	A 14 41 13	<u>Greece</u> 39.45°N 21.25°E
	LmH	C 47.3	H = 14 38 04.3 h = normal MAG=4.5
	LmV	B 47.3	D = 13.1° Az = 331.7° (USCGS) LmH:11.5s 0.5/um LmV:12s 0.4/um MLH=3.8
1.	i	A 16 43 27.5	<u>Greece</u> 39.78°N 21.70°E
	e	A 43 52	H = 16 40 06.6 h = 33 km MAG=4.3
	LmH	C 47.6	D = 13.0° Az = 330.2° (USCGS)
1.	LmH	C 18 17.8	<u>Greece</u> (UPP)
1.	eP	A 22 49 59	<u>Greece</u> (UPP)
2.	eP	A 01 30 25	<u>Greece</u> 39.73°N 21.20°E
	e(PP)	A 30 36	H = 01 27 20.2 h = normal MAG=4.4 (USCGS)
	e	A 30 48	D = 12.9°
	LmH	B 34.8	LmH:7s 0.3/um MLH=3.8
2.	eP	A 08 15(02)	<u>Greece</u> 39.56°N 21.26°E
	e	A 15 14.5	H = 08 11 53.7 h = 19 km MAG=4.5
	e	A 15 40.5	D = 13.0° Az = 331.7° (USCGS)
	LmH	B 21.1	LmH:8s 0.4/um LmV:12s 0.3/um
	LmV	B 21.2	MLH=3.9
			AN USSR gives: Aegean Sea 37.8°N 20.0°E H = 08 11 40 h = normal D = 14.2°
2.	e(Sg)	A 08 24 57	
	e	A 25 03	
	e	A 25 25	
2.	e	A 17 28(42)	<u>East New Guinea Region</u> 5.60°S 147.25°E
	e	A 30(16)	H = 17 10 04.7 h = 148 km MAG=5.4 (USCGS)
	LmH	C 18 12.4	D = 121.8° LmH:26s 0.4/um AN USSR gives: New Guinea Region 5.6°S 147.4°E H = 17 10 22 h = 315 km

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Day	Phase	h m s	Remarks
2.	i(P)	A 19 32 32.5	<u>Greece</u> 39.99°N 21.44°E H = 19 29 24.3 h = 7 km MAG=4.4 (USCGS) D = 12.6° The first onset of P must be 5 s earlier than i(P).
	ei(PP)	A 32 41.5	
	LmH	C 36.9	
3.	e(Sg)	A 11 38 40	Explosion?
	e	A 38 43	
	e	A 38 46	
	e	A 38 53	
3.	-i(P)	A 14 02 14.7	(P)V:0.9s 14nm
3.	eP	A 18 44 52	<u>Greece</u> 39.66°N 21.54°E H = 18 41 47.0 h = 35 km MAG=4.8 D = 13.0° Az = 330.8° (USCGS) LmH:11s 1.8/um LmV:12s 1.6/um MLH=4.4
	e(PP)	A 45 02	
	e	A 45 06	
	e	A 45 22.5	
	LmH	B 51	
	LmV	B 51.1	
3.	e(Sg)	A 21 40 12	Explosion?
4.	e(Sg)	A 00 16 37	Near earthquake?
	e	A 16 43	
	e	A 17 04.5	
4.	eS	C 08 44(30)	<u>South Sandwich Islands Region</u> 55.68°S 27.89°W H = 08 17 32.1 h = normal MAG=5.8 D = 112.3° Az = 294.8° (USCGS) LmH:22s 1.6/um LmV:22s 2.4/um MLH=5.6 MLV=5.7
	eSS	C 52 10	
	eLQ	C 09 02.5	
	LmH	B 16.9	
	LmV	B 16.9	
4.	iPg	A 09 26 38.4	<u>Explosion/GDR</u> D = ca. 1.2°
	iSg	A 26 55.9	
4.	ePKP	A 10 38 43.5	<u>Fiji Islands Region</u> 19.70°S 176.16°W H = 10 18 58.0 h = normal MAG=4.9 D = 148.5° Az = 350.5° (USCGS)
	e	A 38 47.5	
	ei	A 38 55	

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Day	Phase	h m s	Remarks
cont.			
4.	e	A 10 38 59.5	PV1:1.7s 34.8nm PV2:1.2s 15.4nm PV3:1.2s 20.5nm LmH:24s 0.5/um MLH=5.1
	LmH	C 11 41	
4.	eP	A 13 34 11.5	<u>Greece</u> 39.83°N 21.46°E H = 13 31 08.5 h = 40 km MAG=4.7 D = 12.8° Az = 330.7° (USCGS) LmH:16s 0.9/um MLH=3.9
	e	A 34 31.5	
	e	A 34 40.5	
	LmH	C 38.5	
4.	eP	A 23 37 46	<u>Honshu/Japan</u> 36.30°N 138.30°E H = 23 25 33.2 h = 8 km MAG=4.9 D = 79.7° Az = 47.4° (USCGS) LmH:18s 1.2/um MLH=5.3
	LmH	B 00 10.9	
5.	eP	A 01 39 14.5	PV:1.6s 22.7nm
5.	eP	A 06 29 46	<u>Greece</u> 39.65°N 21.54°E H = 06 26 37.9 h = 55 km MAG=4.6 D = 13.0° Az = 330.9° (USCGS) LmH:11s 0.7/um MLH=4.0
	e	A 29 53.5	
	e	A 30 15	
	LmH	B 35.9	
5.	e(P)	A 07 35 09	
5.	e(P)	A 08 53 48	(P)V:0.8s 18.9nm
5.	e(P)	A 14 53 09	<u>Greece</u> 39.60°N 21.24°E H = 14 50 02.9 h = normal MAG=4.4 (USCGS) D = 12.9°
	e	A 53 14	
	LmH	B 59.2	
	LmV	B 59.2	
5.	e(P)	A 14 55 55	
	e	A 56 05	

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Day	Phase	h m s	Remarks
5.	eP	A 15 18 53	<u>Kenai Peninsula/Alaska</u> 59.32°N 151.38°W H = 15 07 49.5 h = 57 km MAG=5.4 (USCGS) D = 69.5°
	e	A 19 05	
5.	ePP	A 15 21 48	<u>Solomon Islands</u> 10.49°S 161.34°E H = 15 00 07.7 h = 41 km MAG=5.4 (USCGS) D = 132.8° LmH:22s 1.8 μ m LmV:24s 2.1 μ m MLH=5.7 MLV=5.7 AN USSR gives: 10.4°S 160.9°E H = 15 00 16 h = 120 km
	e	A 21 57	
	eSKP	A 22 43	
	eSS	C 39.6	
	eSSS	C 44.6	
	LmV	B 16 18.0	
	LmH	B 20.0	
5.	eP	A 17 16 44	<u>Central Alaska</u> 63.72°N 148.50°W H = 17 06 14.9 h = 102 km MAG=4.9 D = 64.9° Az = 13.8° (USCGS); h = 100 km AN USSR gives: Alaska 62.4°N 147.1°W H = 17 05 58 h = normal D = 66.1°
	epP	A 17 09	
	esP	A 17 19	
5.	ePP	A 17 55 51	<u>Java</u> 7.95°S 107.24°E H = 17 38 05.3 h = normal MAG=5.3 (USCGS) D = 99.7° PPV:1.9s 64.8nm LmH:24s 0.8 μ m LmV:22s 0.8 μ m MPPV=5.7 MLH=5.2 MLV=5.2
	e	A 56 11	
	LmH	C 18 38	
	LmV	B 44	
5.	eP	A 22 07 40	<u>Norwegian Sea</u> 72.70°N 3.03°E H = 22 02 40.2 h = normal MAG=4.8 D = 22.5° Az = 165.6° (USCGS) PV:1.8s 51.0nm MPV=4.7
5.	eP	A 23 23 22.5	<u>Mid-Indian Rise</u> 23.08°S 69.29°E H = 23 10 26.9 h = 23 km MAG=4.9 D = 89.3° Az = 327.4° (USCGS) PV:1.8s 30.6nm MPV=5.2
	e	A 23 32	
6.	e(P)	A 04 13 40.5	

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Day	Phase	h m s	Remarks
6.	e(P)	A 04 47 39	
6.	LmH	C 09 34	<u>South Sandwich Is. Reg.</u> 55.57°S 26.33°W H = 08 31 15.8 h = normal MAG=5.1 (USCGS) D = 110.4° LmH:18s 0.35 μ m LmV:16s 0.3 μ m MLH=5.0 MLV=5.0
	LmV	C 34	
6.	e	A 11 18 07	
6.	e(pP)	A 14 12 04	<u>Dominican Republic Region</u> 19.29°N 69.97°W H = 14 00 41.4 h = 39 km MAG=5.3 D = 70.1° Az = 42.1° (USCGS) LmH:18s 0.7 μ m LmV:18s 1.0 μ m MLH=5.0 MLV=5.1 The first onset of P must be about 13 s earlier than e(pP).
	LmH	B (40)	
	LmV	B (40)	
6.	LmH	C 20(40)	<u>Japan</u> (USCGS)
	LmV	C (40)	
7.	eP	A 06 52 58	<u>Fox Islands/Aleutian Is.</u> 52.21°N 171.88°W H = 06 41 05.8 h = 52 km MAG=4.5 (USCGS) D = 77.5° h = 59 km
	e	A 53 05	
	epP	A 53 13.5	
	esP	A 53 20	
7.	eP	A 07 52 09	<u>Fox Islands/Aleutian Is.</u> 52.18°N 171.79°W H = 07 40 15.9 h = 45 km MAG=4.3 (USCGS) D = 77.5° h = 48 km
	epP	A 52 21.5	
7.	e	A 08 23 11.5	
	e	A 23 23	
7.	ePKIKP	A 10 35 50	<u>New Britain Region</u> 4.14°S 152.81°E H = 10 16 56.2 h = 47 km MAG=5.0 D = 123.4° Az = 331.5° (USCGS)
	e	A 36 03	
	e	A 36 50	
	LmH	C 11(32)	
	LmV	C (32)	

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Day	Phase	h m s	Remarks
8.	LmH	B 04 18.5	<u>Ryukyu Islands</u> 28.45°N 130.18°E H = 03 31 08.8 h = 58 km MAG=4.7 (USCGS) D = 84.4° LmH:18s 0.8/um LmV:15s 0.8/um MLH=5.2 MLV=5.2
	LmV	B 25.3	
8.	e(Sg)	A 07 01 31	
	e	A 01 54	
8.	e(P)	A 14 07 29	
8.	eP	A 14 59 33.5	<u>Kyushy/Japan</u> 30.13°N 131.55°E H = 14 47 11.1 h = 64 km MAG=4.9 D = 83.7° Az = 326.3° (USCGS) PV:0.8s 9.5nm MPV=5.0
8.	e(Sg)	A 16 48 17.5	
	eP	A 18 55 50	
8.	i	A 56 29.5	<u>Hindu Kush Region</u> 36.43°N 70.16°E H = 18 48 04.8 h = 215 km MAG=4.8 D = 43.6° Az = 308.1° (USCGS); h = 224 km PV:0.8s 9.5nm MPV=4.3
	epP	A 56 37	
8.	+iPKP2	A 19 05 35	<u>South of Kermadec Is.</u> 33.15°S 178.39°W H = 18 44 56.8 h = 50 km MAG=5.3 D = 161.0° PV1:1.1s 39.0nm PV2:1.2s 20.5nm PV3:1.2s 20.5nm
	e	A 05 39	
	e	A 05 50	
9.	+eP	A 04 08 54	<u>Turkey</u> 39.57°N 27.00°E H = 04 05 11.2 h = 29 km MAG=4.5 D = 15.5° Az = 320.7° (USCGS) PV:1.1s 9.8nm LmH:13.5s 0.7/um LmV:12s 0.4/um MLH=4.0 MLV=4.0
	e	A 08 58.5	
	e	A 09 04	
	e	A 09 08.5	
	LmH	B 14.1	
	LmV	B 15.5	

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Day	Phase	h m s	Remarks
9.	+eP1	A 06 26 55.5	<u>Kurile Islands</u> 44.21°N 149.01°E H = 06 14 57.1 h = 40 km MAG=5.3 D = 78.5° Az = 333.9° (USCGS); h = 45 km PV1:1.3s 41.8nm PV2:2.0s 111nm pPV1:1.1s 40.0nm pPV2:1.6s 94.7nm LmH:19s 2.4/um LmV:16s 2.6/um MPV1=5.4 MPV2=5.6 MLH=5.6 MLV=5.7 i 27 22.0 (V:1.8s 106nm) and i 27 41.0 (V:1.7s 94.5nm) are two very clear separated onsets in the short-period vertical components. A separated shock in the same focus?
	+iP2	A 26 58.2	
	+eipP1	A 27 08	
	+ipP2	A 27 10.3	
	i	A 27 22.0	
	i	A 27 41.0	
	eS	C 36 48	
	eSS	C 42.0	
	e	B 47 16	
	LmH	B 07 00.0	
LmV	B 06.6		
9.	e(P)	A 07 28 12	<u>Greece (UPP)</u>
9.	e(P)	A 08 03 57	<u>Greece</u> 39.84°N 21.52°E H = 08 00 47.9 h = 54 km MAG=4.5 (USCGS) D = 12.7° LmH:13s 0.5/um MLH=3.8 The first onset of P must be about 9 s earlier than e(P).
	e	A 04 24	
	e	A 07 55	
	LmH	B 08.3	
9.	eP	A 11 11 28	<u>Eastern Sea of Japan</u> 44.76°N 140.65°E H = 11 00 09.8 h = 256 km MAG=4.8 D = 74.6° Az = 327.3° (USCGS) PV:1.3s 8.3nm MPV=4.3
9.	eiP	A 12 48 01.5	<u>Kodiak Island Region</u> 56.56°N 152.57°W H = 12 36 36.8 h = normal MAG=5.0 D = 72.4° Az = 10.5° (USCGS); h = 26 km PV:1.0s 28.2nm pPV:1.4s 47.6nm LmH:20s 0.6/um LmV:19s 0.5/um MPV=5.4 MLH=4.9 MLV=4.8 e 48 12 e 49 01.5
	epP	A 48 08.5	
	e	A 48 32	
	eS	B 57 26	
	eSS	C 13 02 20	
	LmH	B 22.8	
	LmV	B 23.5	
9.	e(Sg)	A 13 05 38	

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Day	Phase	h m s	Remarks
9.	e(pP) e	A 15 18 32 A 18 46	<u>Kodiak Island</u> 56.62°N 152.27°W H = 15 06 58.6 h = 17 km MAG=4.8 D = 72.3° Az = 10.7° (USCGS); (h = ca. 28 km) P must be about 8 s earlier than (pP).
9.	ei	A 15 44 03	
9.	i(P) i	A 16 44 03.5 A 44 15.5	
9.	eP	A 16 44 56.5	<u>Northern Pamir</u> 39.2°N 71.4°E H = 16 37 02 h = normal MAG=4.72 (AN USSR) D = 42.8°
9.	ePKP epPKP	A 20 32 59 A 33 25	<u>Tonga Islands</u> 15.54°S 173.41°W H = 20 13 32.4 h = 89 km MAG=4.8 D = 144.7° Az = 354.5° (USCGS); h = 92 km
9.	eP e(pP) e e e ePP eSKS eS eSPP eSS LmH LmV	A 21 43 50 A 44 18 A 44 24 A 47 54.5 A 48 03 A 48 08 C 54 16 C 55 20 C 57 40 C 22 02(24) B 35.3 B 35.3	<u>Philippine Islands Region</u> 5.21°N 127.47°E H = 21 30 08.3 h = 119 km MAG=5.5 D = 101.9° Az = 324.2° (USCGS); (h = 109 km) PV:1.7s 27.7nm PV3:2.0s 44.4nm LmH:16s 0.4 μ m LmV:16s 0.3 μ m MPV=5.7 If we interpret e 44 24 as pP than the focal depth would be h = 134 km AN USSR gives: 5.2°N 127.6°E H = 21 30 18 h = 204 km D = 102.0°
10.	ePn e e eiSn e(Lg2)	A 05 23 27.5 A 23 33 A 23 52 A 24 35 A 25 26	<u>Italy</u> 44.6°N 10.4°E H = 05 22 00 (BCIS) D = 6.1°

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Day	Phase	h m s	Remarks
10.	e eSn eSg ei	A 07 52 25 A 52 34.5 A 52 52 A 52 56	<u>Austria</u> 47.8°N 14.2°E H = 07 51 02 (BCIS) D = 3.3°
10.	e(P)	A 12 39 34	(P)V:0.9s 7.1nm
10.	eP	A 13 52 17	<u>Nevada</u> H = 13 40 00 (UPP) Underground explosion.
10.	eP e LmH LmV	A 17 52 32 A 52 53 C 18 33 C 33.4	<u>Taiwan</u> 23.74°N 121.52°E H = 17 40 06.7 h = 44 km MAG=5.1 D = 83.7° Az = 323.0° (USCGS) PV:0.6s 9.5nm LmH:19s 0.3 μ m LmV:20s 0.2 μ m MPV=5.1 MLH=4.6 MLV=4.6
10.	eP LmH	A 21 15 38 B 20 28	<u>Greece</u> (UPP)
11.	e(Sg)	A 14 36 35	Sg(V):1.3s 13.9nm
11.	eP1 +iP2 iPP iPP eS eSS iScS LQ iLg1 iLg2 LmH LmV	A 14 59 08.5 A 59 11.8 A 15 00 58 B 01 06 C 05 35 C 08 48 C 08 58 C 09.1 B 13 53 B 15 16 B 18.2 B 19.0	<u>Tadzhik-Sinkiang Border Reg.</u> 39.38°N 73.78°E H = 14 50 58.8 h = 21 km MAG=5.6 D = 44.1° Az = 306.1° (USCGS) PV1:0.9s 18.9nm PV2:1.2s 125nm LmH:18s 40.0 μ m LmV:14s 17.4 μ m MPV1=5.0 MPV2=5.7 MLH=6.4 MLV=6.2 ei 59 13.5 e 59 40.5 i 01 16.3 e 08 14 P is multiple. The amplitude of P2 is much bigger than that of P1. Probably two shocks in the same focus. Well deve- loped higher mode surface waves.
11.	ePP	A 15 22 53	<u>Chile-Bolivia Border Reg.</u> 20.26°S 68.51°W H = 15 05 16.8 h = 67 km MAG=6.1 (USCGS) D = 99.4°

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Day	Phase	h m s	Remarks
11.	eP	A 15 35 15	Chile-Bolivia Border Region?
	e(pP)	A 35 42	PV:0.8s 9.5nm (pP)V:1.5s 20.1nm
	ePP	A 39 20	
11.	e(P)	A 15 43 28	
12.	e(Sg)	A 03 00 23	
	e	A 00 30.5	
12.	eP	A 05 29 16	<u>Tadzhik-Sinkiang Border Reg.</u>
	LmH	B 48	39.49°N 73.83°E
	LmV	B 49.3	H = 05 21 04.8 h = 5 km MAG=4.9 (USCGS) D = 44.1° Az = 306.0° LmH:19s 0.9/um LmV:13s 0.4/um MLH=4.7 MLV=4.6
12.	i(P)	A 05 37 15	
12.	epPKP	A 06 34 03	<u>Tonga Islands</u> 17.76°S 174.04°W H = 06 13 59.7 h = 115 km MAG=4.8 (USCGS) D = 146.8°
12.	eP	A 10 27 00	
12.	LmH	C 11(35)	Probably off Coast of Southern Chile
	LmV	C (35)	(USCGS)
12.	e	A 11 15 16.5	
12.	eP	A 17 10 24	<u>Fox Islands/Aleutian Is.</u> 52.89°N 167.03°W H = 16 58 33.2 h = 32 km MAG=4.9 D = 76.8° Az = 0.9° (USCGS) MPV=5.1
	ePn	A 17 54 52	<u>Northern Italy</u> 44.67°N 10.45°E H = 17 53 23.1 h = 39 km MAG=4.2 D = 6.0° Az = 7.1° (USCGS) LmH:14s 1.0/um LmV:14s 0.8/um MLH=3.5
12.	iPg	A 55 22.3	
	iSn	A 55 56.5	
	iSg	A 56 34.8	
	iLg2	A 56 43	

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Day	Phase	h m s	Remarks
cont.			
12.	LmH	B 17 57.5	e 54 56 e 55 17.5
	LmV	B 57.5	
12.	ePKP2	A 19 24 52	<u>Balleny Islands Region</u> 62.67°S 167.72°E
	LmV	C 20(45)	H = 19 04 00.8 h = normal MAG=5.4 (USCGS)
	LmH	C (46.5)	D = 162.4°
12.	eP	A 22 28 05.5	<u>Southern Alaska</u> 60.13°N 152.55°W
	eipP	A 28 30	H = 22 17 09.6 h = 93 km MAG=4.6 D = 68.8° Az = 10.7° (USCGS); h = 100 km AN USSR gives: Alaska 63.7°N 154.4°W H = 22 17 25 h = normal D = 65.5°
13.	+eP	A 05 30 20.5	<u>Kodiak Island Region</u> 56.53°N 152.59°W
	e	A 30 26.5	H = 05 18 55.4 h = normal MAG=5.3
	eS	C 39 46	D = 72.4° Az = 10.5° (USCGS)
	LmH	B 06 06.3	PV:1.3s 41.7nm SH:16s 0.9/um
	LmV	B 09.8	LmH:18s 1.4/um LmV:18s 1.5/um MPV=5.4 MSH=5.7 MLH=5.3 MLV=5.3
13.	e(P)	A 07 50 22	
13.	iPg	A 12 00 04.2	<u>Explosion/CSSR</u> 50.58°N 14.00°E
	iSg	A 00 25.0	D = 1.5° Yield: 20 t
13.	e(P)	A 12 19 45	
13.	eSg	A 20 11 42	Probably Austria (aftershock to May 10.,
	e	A 11 52	H = 07 51 02)
14.	eP1	A 04 19 23	<u>Southern Greece</u> 37.73°N 21.20°E
	eP2	A 19 31.5	H = 04 16 01.7 h = 66 km MAG=4.8
	i	A 19 37.5	D = 14.6° Az = 335.2° (USCGS)
	i	A 19 45.0	PV1:1.0s 12nm PV2:1.0s 49.8nm
	eSS	B 22.4	LmH:13s 1.0/um LmV:13s 1.3/um
	ei	B 24 28	MLH=4.1 MLV=4.4
LmH	B 26.2	Two clear separated P-onsets (P2 - P1 =	

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Day	Phase	h m s	Remarks
cont.			
14.	LmV B	04 26.2	8.5 s), the first much smaller than the second one.
14.	ePKP A	05 22 04	<u>Loyalty Islands Region</u> 22.30°S 170.47°E H = 05 02 17.1 h = 10 km D = 147.2° Az = 334.9° (USCGS)
14.	l(P) A	07 40 59.0	
14.	e(P) A	08 36 13	
14.	ePP A	08 56(08)	<u>Chile-Bolivia Border Reg.</u> 20.56°S 68.92°W H = 08 38 33.1 h = 109 km MAG=5.2 (USCGS) D = 99.8° AN USSR gives: h = normal
14.	eP A	09 09 03	<u>Tadzhik-Sinkiang Border Reg.</u>
	e A	09 49	39.23°N 73.90°E
	ePP A	10 47	H = 09 00 54.8 h = normal MAG=5.0
	e A	11 28.5	D = 44.3° Az = 306.2° (USCGS)
	eSa B	18(45)	PV:1.0s 19.0nm
	eLg2 B	25 12	LmH:18s 3.1 μm LmV:16s 2.2 μm
	LmH B	28	MPV=5.0 MLH=5.3 MLV=5.2
	LmV B	29.3	Higher mode surface waves are registered.
14.	e(P) A	17 38 00	
14.	e A	21 16 30	
	e A	16 51	
15.	eP A	00 18 24	<u>South of Honshu/Japan</u> 32.86°N 141.33°E H = 00 05 53.3 h = 63 km MAG=4.5 (USCGS) D = 85.8°
15.	eP A	00 26 08	<u>South of Honshu/Japan</u> 32.89°N 141.39°E H = 00 13 36.8 h = 58 km MAG=4.5 D = 85.8° Az = 330.6° (USCGS)

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Day	Phase	h m s	Remarks
15.	eP A	02 40 14	<u>South of Honshu/Japan</u> 32.84°N 141.44°E
	epP A	40 27	H = 02 27 36.0 h = 40 km MAG=5.4
	esP A	40 31.5	D = 86.1° Az = 330.7° (USCGS); h = 48 km
	ePP A	43 33	PV:1.2s 25.6nm SH(B):16s 0.6 μm
	epPP A	43 46	LmH:16s 1.5 μm LmV:16s 1.7 μm
	eS B	50 38	MPV=5.3 MSH(B)=5.6 MLH=5.5 MLV=5.5
	eiS C	50 44	e 40 19 e 40 35 e 40 44
	LmH B	03 25	
	LmV B	(26.5)	
15.	iPKHKP A	02 47 04.2	<u>Fiji Islands Region</u> 20.06°S 177.65°W
	ePKP2 A	47 11.5	H = 02 28 16.8 h = 564 km MAG=4.9 (USCGS)
	e(pPKP) A	48 40.5	D = 148.5° (h = 400 km)
15.	e(P) A	04 21 51.5	
15.	e(P) A	06 16 44	
15.	eP1 A	08 17 22.2	<u>Crete</u> 34.59°N 26.73°E
	-iP2 AB	17 25.2	H = 08 12 57.1 h = normal MAG=4.9
	eiP3 A	17 30	D = 19.5° Az = 330.1° (USCGS)
	e A	17 44	PV2(B):5.5s 0.85 μm PH2(B):5.5s 0.7 μm
	e A	17 52	PV2(A):1.8s 71.5nm PV3:1.8s 184.0nm
	eS C	21 00	LmH:14s 5.3 μm LmV:15s 7.0 μm
	ei B	21 10	MPV2(B)=5.2 MPH2(B)=5.4 MPV2(A)=4.6
	i(SS) B	21 21	MPV3(A)=5.0 MLH=5.0 MLV=5.2
	LmV B	26.4	e 18 08 e 18 22.5 e 22 50 e 23 38
	LmH B	26.8	Successive P-onset with increasing amplitude in the short-period records.
15.	e(P) A	08 36 43	<u>Crete</u> 34.53°N 26.76°E
	e A	36 54	H = 08 32 08.9 h = normal MAG=4.2 D = 19.5° Az = 330.2° (USCGS) The first motion of P must be about 7 s earlier.
15.	e A	10 05 30.5	<u>Apennines/Italy</u> 44.6°N 10.4°E
	iPg A	05 35	H = 10 03 34 (BCIS)
	eiSn A	06 09.5	D = 6.1°

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Day	Phase	h m s	Remarks
cont.			
15.	eiSg A	10 06 55	LmH:14s 0.4 μ m LmV:14s 0.4 μ m
	LmH B	07.8	MLH=3.0
	LmV B	07.8	ei 05 49.5 i 06 12.5
16.	LmH C	09 30	<u>Easter Island Cordillera (USCGS)</u>
	LmV C	30	
16.	e A	12 19 10	Explosion
	eiSg A	19 18.5	
	LmH A	19 32	
	LmV A	19 32	
16.	eP A	13 10 48	<u>Near Coast of Guatemala</u> 13.51°N 90.63°W
	eS B	21 24	H = 12 58 09.5 h = 95 km MAG=4.8
	ePS B	22 38	D = 87.3° Az = 38.5° (USCGS)
	LmH B	52.5	LmH:17s 0.7 μ m LmV:17s 1.1 μ m
	LmV B	54.2	MLH=5.1 MLV=5.4
16.	e A	13 28 52.5	Near earthquake (probably Northern Italy or Northern Yugoslavia. Trieste gives:
	e A	29 02	D = ca. 75 km).
	e A	29 13.5	
16.	e A	14 45 32	Probably near earthquake.
	e A	45 48	
16.	eP A	16 16 06	<u>Iceland</u> 63.75°N 19.14°W
	LmH B	25.4	H = 16 11 22.2 h = 4 km MAG=4.2
	LmV B	25.4	D = 20.9° Az = 114.3° (USCGS)
			LmH:15s 0.5 μ m LmV:15s 0.4 μ m
			MLH=4.0 MLV=4.1
16.	e(P) A	16 32 16	(P)V:0.6s 7.1nm
16.	ePKP A	16 33 57	<u>Tonga Islands</u> 15.23°S 173.52°W
			H = 16 14 22.9 h = normal MAG=5.2 (USCGS)
			D = 144.5°

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Day	Phase	h m s	Remarks
16.	eP A	19 37 37.5	<u>South of Honshu/Japan</u> 32.45°N 141.25°E
	epP A	37 48.5	H = 19 24 58.6 h = 36 km MAG=5.3
	e A	37 58.5	D = 86.1° Az = 330.6° (USCGS); h = 41 km
	LmV B	20 23.9	PV:1.4s 24.5nm
	LmH B	24.0	LmH:16s 0.4 μ m LmV:16s 0.5 μ m
			MPV=5.1 MLH=4.9 MLV=5.0
16.	e A	19 46 50	Probably Kurile Islands (AN USSR)
	e A	47 12	
16.	e A	21 21 12	<u>Yugoslavia</u> 42.9°N 20.3°E
	eSg A	21 56	H = 21 16 34 (BCIS) MAG=3.9 (Beograd)
			MAG=3.7 (Skopje)
			D = 9.8°
16.	ePKP A	23 27 03	<u>Fiji Islands Region</u> 20.96°S 178.81°W
			H = 23 08 16.3 h = 551 km MAG=3.9
			D = 149.3° Az = 347.0° (USCGS)
17.	eP1 A	00 44 08	<u>Southern Alaska</u> 60.80°N 143.72°W
	1P2 A	44 10.6	H = 00 33 12.3 h = 15 km MAG=4.8
			D = 67.1° Az = 16.8° (USCGS)
			PV2:0.8s 42.5nm
			MPV2=5.6
			The amplitude of P2 is about five times greater than that of P1. Probably a second shock in the same focus.
17.	eP A	04 34 24	<u>Turkey-Iran Border Reg.</u> 38.69°N 44.18°E
	e A	34 51	H = 04 28 51.9 h = 39 km MAG=4.6
	LmH B	46.1	D = 25.8° Az = 308.2° (USCGS)
	LmV B	47.6	LmH:14s 0.7 μ m LmV:13s 0.6 μ m
			MLH=4.4 MLV=4.5
17.	e(pP) A	09 47 06	<u>East of Honshu/Japan</u> 38.3°N 142.2°E
	e A	47 11	H = 09 34 42 h = normal (AN USSR)
			D = 81.2°
			P must be about 10 s earlier than (pP).

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Day	Phase	h m s	Remarks
17.	eP A	10 02 33.5	<u>Taiwan Region</u> 24.36°N 122.09°E
	e A	03 05	H = 09 50 09.4 h = 50 km MAG=4.9
	e A	03 23	D = 83.5° Az = 323.1° (USCGS)
	LmH B	38	LmH:15.5s 0.5/um LmV:13s 0.4/um
	LmV B	42	MLH=5.0 MLV=5.0
17.	LmH B	12(00)	<u>Dominican Republic</u> 19.68°N 69.67°W
	LmV B	(00)	H = 11 19 38.2 h = 54 km MAG=4.4 (USCGS) D = 69.6° LmH:18s 0.3/um LmV:18s 0.3/um MLH=4.6 MLV=4.6
17.	e A	13 05 45	<u>Explosion/GDR</u> 51.29°N 12.73°E
	eISg A	05 49	D = 0.9° Yield: 2.2 t
17.	e A	13 16 52	
17.	LmH B	14 19.0	<u>Solomon Islands</u> 9.70°S 159.76°E
	LmV B	20.0	H = 12 56 55.4 h = 32 km MAG=5.1 (USCGS) D = 131.5°
17.	ePKP A	16 33 05	<u>Fiji Islands Region</u> 16.62°S 175.52°E H = 16 13 37.6 h = 80 km MAG=4.8 D = 143.7° Az = 342.7° (USCGS) PV:1.4s 9.2nm
17.	-iP B	17 57 51.5	<u>Red Sea</u> 19.74°N 38.72°E
	+iP A	57 52.5	H = 17 50 39.6 h = 38 km MAG=5.3
	e B	58 18	D = 37.6° Az = 331.6° (USCGS)
	e A	58 30	PV(B):3.5s 0.5/um PV(A):2.5s 247nm
	ePP B	59 17	SH:12s 0.45/um
	ePcP B	59 50	LmH:12s 0.35/um LmV:12s 0.4/um
	eS B	18 03 44	MPV(B)=5.8 MPV(A)=5.6 MSH=5.3 MLH=4.4
	LmV B	22.1	MLV=4.5
	LmH B	22.1	The P-phases on the short-period records of the Red Sea earthquakes shows unusually long periods around 2.5 s. The surface waves of Red Sea earthquakes are abnormally small at our station for an earthquake with normal focus depth.

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Day	Phase	h m s	Remarks
17.	LmH C	22 55	Probably Easter Island Ridge (USCGS)
	LmV C	55	
18.	eP A	04 18 55.5	<u>Hokkaido/Japan Region</u> 41.93°N 144.62°E
	e A	19 02	H = 04 06 54.7 h = 44 km MAG=4.7
	e A	19 08	D = 79.1° Az = 331.7° (USCGS)
	eS C	28 52	PV:1.5s 26.8nm
	LmH B	50.5	LmH:22s 2.2/um LmV:16s 1.2/um
LmV B	57.3	MPV=5.2 MLH=5.5 MLV=5.3	
18.	+iP A	11 34 33.7	<u>Hokkaido/Japan Region</u> 41.93°N 144.66°E
	e A	34 39	H = 11 22 31.6 h = 41 km MAG=4.9
	e A	34 46	D = 79.1° Az = 331.7° (USCGS)
	e A	34 56.5	PV:1.4s 76.7nm
	e A	35 43	LmH:24s 2.9/um LmV:19s 1.5/um
	eS C	44 28	MPV=5.6 MLH=5.5 MLV=5.4
	LmH B	12 06.4	AN USSR gives: Japan 43.3°N 144.3°E
	LmV B	12.9	H = 11 22 48 h = 120 km D = 77.7°
18.	e(P) A	11 39(03)	<u>Tadzhik SSR</u> 40.61°N 70.39°E
	e A	39 26	H = 11 31 20.4 h = 14 km MAG=4.9 (USCGS)
	e A	40 40	D = 41.3°
	e A	40 49	The P-onset is doubtful.
18.	iPg A	14 08 33.6	<u>Explosion/GDR</u> 51.37°N 12.89°E
	iSg A	08 50.1	D = 1.0°
18.	eP A	14 12 58	<u>Hokkaido/Japan Region</u> 41.95°N 144.67°E
	epP A	13 09	H = 14 00 56.1 h = 40 km MAG=5.1
	e A	13 20	D = 79.1° Az = 331.7° (USCGS); h = 40 km
	LmH B	45.0	PV:1.5s 25.0nm
	LmV B	51.3	LmH:22s 1.3/um LmV:18s 1.0/um MPV=5.1 MLH=5.2 MLV=5.2
18.	ePg A	15 43 56	<u>Explosion/CSSR</u>
	iSg A	44 09.6	D = ca. 1.1°

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Day	Phase	h m s	Remarks
18.	+eP A	23 51 34.5	<u>Kyushu/Japan</u> 31.10°N 130.73°E
	epP A	51 44.5	H = 23 39 15.2 h = 43 km MAG=5.6
	LmH B	00 29.4	D = 82.5° Az = 325.9° (USCGS); h = 37 km
	LmV B	34.2	PV:1.3s 50.0nm LmH:16s 0.4/um MPV=5.5 MLH=4.8
19.	ePKP2 A	05 29 57.5	<u>South of Kermadec Islands</u> 34.90°S 179.01°W
	e(pPKP2) A	30 10.5	H = 05 09 10.9 h = 35 km MAG=5.2 (USCGS)
	i A	30 19.5	D = 162.6° (h = 15 km) PV1:1.5s 20.1nm PV2:1.2s 12.8nm PV3:1.3s 27.8nm i 30 19.5 is either pPKP2, which would suggest a focal depth of h = 77 km, or it can be the PKP2-phase of a second shock in the same focus (see Bulletin of Seism. Inst. Uppsala).
19.	iPKP A	07 59 22.7	<u>West of Macquarie Island</u> 54.28°S 143.63°E H = 07 39 27.2 h = normal D = 151.0° Az = 282.8° (USCGS)
19.	ePKP2 A	12 22 50	<u>Kermadec Islands Region</u> 30.28°S 177.94°W H = 12 02 19.9 h = 25 km MAG=4.7 (USCGS) D = 158.4°
19.	eiPKP A	13 10 49	LmH:18s 0.3/um LmV:18s 0.5/um
	e A	10 59	
	i A	11 23.0	
	LmH C	14 21	
19.	+iP A	16 00 33.6	<u>Ethiopia</u> 14.53°N 40.26°E
	e A	00 46.5	H = 15 52 34.2 h = 13 km MAG=5.1
	e A	01 11	D = 42.8° Az = 333.3° (USCGS)
	e A	01 31	PV:1.3s 38.9nm
	ePP A	02 16	MPV=5.2
	iPoP A	02 28.0	

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Day	Phase	h m s	Remarks
20.	e A	03 08 53	<u>Mariana Islands Region</u> 19.84°N 146.05°E
	e(PP) A	09 09	H = 02 51 09.4 h = 42 km MAG=5.5 (USCGS)
	e A	09 17.5	D = 99.1°
	LmV C	04 51.5	LmH:23s 0.5/um LmV:23s 0.5/um
	LmH C	52	MLH=4.9 MLV=5.0
20.	eP A	08 55 23	<u>Kirgiz SSR</u> 39.20°N 72.75°E
	e A	55 34.5	H = 08 47 19.8 h = normal MAG=5.1
	ePP A	57 08	D = 43.6° Az = 306.0° (USCGS)
	LmH C	09 12.9	LmH:18s 0.4/um MLH=4.4
20.	iPg A	11 45 33.6	<u>Explosion/ČSSR</u> 50.57°N 14.00°E
	iSg A	45 53.9	D = ca. 1.5° Yield: 20.7 t
20.	ePKIKP A	13 21 08	<u>Drake Passage</u> 59.18°S 65.68°W
	LmH C	14 24.5	H = 13 02 09.3 h = normal MAG=5.5 (USCGS)
	LmV C	24.5	D = 126.2° PV:1.1s 24.0nm
20.	+iP A	15 12 17.6	<u>Nevada</u>
	i A	12 27.1	H = 15 00 00
	e(PP) A	15 20	D = ca. 81.2°
	iPP A	15 22.5	PV:1.6s 87.2nm PPV:1.8s 35.7nm
	LmH C	16 48.5	MPV=5.6 MPPV=5.3
	LmV C	52.8	e 12 33 e 12 41 Underground explosion.
20.	eP A	23 22 39	<u>Western Russia</u> 66.41°N 33.37°E
	eS A	26(00)	H = 23 18 11.7 h = 17 km MAG=4.6
	eLi A	27 53.5	D = 19.3° Az = 225.6° (USCGS)
	eiLg1 A	28 29	ei 23 35 e 26 57 e 28 03
	LmH A	28 55	
21.	e A	07 31 34	<u>Gulf of California</u> 27.93°N 111.31°W
	eLQ C	53.8	H = 07 18 12.8 h = normal MAG=4.7 (USCGS)
	LmV B	08 08	D = 87.0°
	LmH B	11	LmH:16s 1.9/um LmV:20s 2.3/um MLH=5.6 MLV=5.6

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Day	Phase	h m s	Remarks
21.	e(P) A	11 37 43.5	
21.	eP A	18 42 42	<u>Hindu Kush Region</u> 35.55°N 69.70°E
	ipP A	43 12.0	H = 18 34 46.4 h = 138 km MAG=4.7 (USCGS)
	e A	43 44	D = 43.9° h = 135 km
21.	+iP AB	18 57 55.9	<u>Southern Sumatra</u> 0.97°S 101.47°E
	-ipP AB	58 38.4	H = 18 45 11.7 h = 173 km MAG=6.3
	iPP A	19 01 31.7	D = 90.6° Az = 320.5° (USCGS); h = 172 km
	iSKS B	08 07	PV(A):1.9s 833nm PV(B):4.0s 2.7 μ m
	iS B	08 34	PH(B):4.0s 0.9 μ m pPV(A):2.0s 496nm
	i(sSKS) B	09 28	pPV(B):7s 4.1 μ m SKSH:12s 8.2 μ m
	isS B	09 50	SH:12s 15.6 μ m SSH:12.5s 10.6 μ m
	iSS C	14 38	MPV(A)=6.4 MPV(B)=6.6 MPH(B)=6.4 MSH=7.1 e 00 54 ei 01 22 e 01 55 e 09 35
22.	e(PKP) A	12 27 41	Probably Fiji Islands (USCGS)
22.	-eiP A	19 50 20.3	<u>Turkey</u> 36.68°N 29.52°E
	e A	50 22	H = 19 46 01.9 h = 54 km MAG=4.4
	e A	50 24.5	D = 19.0° Az = 323.0° (USCGS)
	e A	50 44	PV2:1.0s 18.9nm PV3:1.2s 28.1nm Multiple P.
22.	eP A	21 04 18	<u>Southwestern Ryukyu Islands</u> 24.89°N 124.19°E H = 20 51 57.4 h = 127 km MAG=4.5 (USCGS) D = 84.2° AN USSR gives: h = normal
22.	e A	23 19 42	
22.	LmH C	23 34	Probably Mexico (USCGS)
23.	-eP A	01 34 22	<u>Kurile Islands Region</u> 44.63°N 150.16°E
	e A	34 34	H = 01 22 22.2 h = normal MAG=4.3
	e A	34 44	D = 78.5° Az = 334.5° (USCGS)
	LmH C	02 12	PV:1.5s 40.3nm
	LmV C	12	LmH:18s 0.3 μ m LmV:18s 0.35 μ m MPV=5.3 MLH=4.8 MLV=4.8

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Day	Phase	h m s	Remarks
23.	+eiP A	02 04 39.8	<u>Kurile Islands Region</u> 44.62°N 150.45°E
	e A	04 52	H = 01 52 39.1 h = 22 km MAG=4.9
	e A	05 02	D = 78.6° Az = 334.7° (USCGS)
	LmH C	42.5	PV1:1.6s 91.0nm PV2:1.5s 30nm
	LmV B	46.4	PV3:1.5s 37nm LmH:18s 1.1 μ m LmV:16s 1.6 μ m MPV=5.7 MLH=5.2 MLV=5.5
23.	eP A	08 47 41.5	<u>Southern Sumatra</u> 3.12°S 101.52°E
	e A	48 57	H = 08 34 35.8 h = 59 km MAG=5.3
	e(PP) A	52 23	D = 92.3° Az = 320.4° (USCGS)
23.	eiP A	12 07 17.8	<u>Norwegian Sea</u> 72.82°N 5.57°E
	e A	07 25	H = 12 02 18.3 h = normal MAG=4.7
	e A	07 27.5	D = 22.4° Az = 169.9° (USCGS)
	LmH C	17	PV1:1.8s 62.5nm PV2:1.8s 56.2nm MPV=4.8
23.	+iP A	14 12 17.8	<u>Nevada</u>
	e A	12 30	H = 14 00 00
	e A	12 39	D = ca. 81.2°
	e A	13 11	PV:1.4s 46.0nm
	ePP A	15 22.5	MPV=5.4 Underground explosion.
23.	e A	15 45 56	Probably Kermadec Islands (USCGS)
23.	ePP A	19 36 58	<u>South Sandwich Islands Region</u>
	e A	37 11.5	56.19°S 27.27°W
	eSP C	46 08	H = 19 17 47.5 h = 130 km MAG=5.9 (USCGS)
	ePPS C	47(30)	D = 111.2°
	eSS C	52 24	LmH:20s 0.4 μ m LmV:18s 0.6 μ m
	LmH B	20 19	AN USSR gives: 56.4°S 29.9°W
	LmV B	21.5	H = 19 17 33 h = normal MAG=5.72 D = 112.0°
23.	eP A	21 08 27	<u>Off East Coast of Kamchatka</u>
	epP A	08 38	52.26°N 160.32°E H = 20 56 52.6 h = normal MAG=4.5 D = 74.1° Az = 339.9° (USCGS); h = 41 km

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Day	Phase	h m s	Remarks
24.	epP i(sP)	A 01 47 33 A 47 38.0	<u>Kurile Islands Region</u> 50.04°N 159.32°E H = 01 35 37.1 h = 43 km MAG=4.4 (USCGS) D = 76.0°
24.	e(pP)	A 17 29 18	<u>Malawi</u> 12.14°S 34.18°E H = 17 18 29.2 h = normal MAG=4.9 (USCGS) D = 65.6° The first onset of P must be about 5 s earlier.
24.	e(pP)	A 22 50 15	<u>Off East Coast of Kamchatka</u> 52.26°N 160.24°E H = 22 38 28.8 h = 27 km MAG=4.2 (USCGS) D = 74.2°
25.	e(Sg)	A 12 33 07.5	
25.	ePg i eSg	A 12 55 04.5 A 55 15 A 55 20	Explosion D = ca. 1.2°
25.	+eP	A 19 03 25	<u>Hokkaido/Japan Region</u> 45.99°N 143.02°E H = 18 52 17.1 h = 325 km MAG=4.8 D = 75.0° Az = 330.4° (USCGS) PV:1.3s 22.2nm
26.	e(Sg) e	A 01 31 14 A 31 40	
26.	e(P)	A 04 57 55	
26.	eiSg	A 08 27 21.5	Near earthquake.
26.	eP e	A 15 12 19 A 12 48	<u>Nevada</u> H = 15 00 00 (UPP) D = ca. 81° PV:1.2s 15.3nm MPV=5.0 Underground explosion.

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Day	Phase	h m s	Remarks
26.	eP	A 15 33 23	<u>Jan Mayen</u> H = 15 28.3 (UPP) D = ca. 23° PV:1.8s 31.2nm MPV=4.5
26.	eP	A 15 40 06	<u>Jan Mayen</u> H = 15 35.0 (UPP) D = ca. 23°
26.	eP e	A 15 42 37 A 42 47	<u>Jan Mayen</u> 71.17°N 6.70°W H = 15 37 43.3 h = normal MAG=4.3 D = 22.2° Az = 148.1° (USCGS) PV:2.0s 33.1nm MPV=4.4
26.	eP	A 16 16 40.5	PV:1.3s 11.1nm
26.	e(Sg) e e	A 16 45 55 A 46 07 A 46 12	
26.	e e	A 16 57 09 A 57 17.5	
26.	eP	A 17 35 35	<u>Rumania</u> 45.52°N 26.31°E H = 17 32 58.8 h = 133 km MAG=4.2 (USCGS) D = 11.0° AN USSR gives: h = 160 km; BCIS gives: h = 145 km
27.	eP e eS eSS LmH LmV	A 01 51 10 A 51 22.5 C 57.9 C 02 01.1 B 11.8 B 11.8	<u>Southern Sinkiang Prov./China</u> 39.91°N 77.33°E H = 01 42 47.1 h = normal MAG=5.4 D = 46.0° Az = 306.3° (USCGS) LmH:17s 2.0 μm LmV:17s 2.4 μm MLH=5.1 MLV=5.3 e 51 30 e 53 27

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Day	Phase	h m s	Remarks
27.	+eP	A 01 58 27	<u>Algeria</u> 35.76°N 0.30°W
	e	A 58 36	H = 01 54 26.0 h = 28 km MAG=4.7
	e	A 58 39	D = 17.2° Az = 26.4° (USCGS)
	e(S)	C 02 01 36	PV:1.7s 87.6nm PH:1.8s 112.5nm
	e	C 03 00	LmH:13s 0.5 μ m LmV:12.5s 0.75 μ m
	LmH	C 05.4	MLH=4.0 MLV=4.3
	LmV	C 05.4	
27.	i(Sg)	03 18 44.0	
27.	i(P)	09 01 31.6	
27.	e(P)	11 06 *26.5	(P)V:1.1s 9.6nm
27.	eP	A 12 50 58	<u>Afghanistan-USSR Border Reg.</u>
	ePP	A 52 39	36.19°N 71.49°E
	esPP	A 53 13	H = 12 42 54.1 h = 109 km MAG=4.9
			D = 44.6° Az = 308.4° (USCGS) PV:1.3s 11.1nm MPV=4.6
27.	+iP	B 17 34 49.5	<u>Rat Islands/Aleutian Is.</u> 51.89°N 176.08°E
	+iP1	A 34 49.5	H = 17 22 58.7 h = 34 km MAG=5.8
	-eiP2	A 34 51.0	D = 77.0° Az = 349.9° (USCGS)
	e(pP)	A 34 58	PV:6.5s 1.8 μ m PV2:1.6s 220nm
	ePP	C 37 44	LmH:19s 6.3 μ m LmV:21s 6.4 μ m
	ePPP	C 39 36	MPV=6.3 MPV2=6.0 MLH=6.0 MLV=6.0
	iS	C 44 36	The short-period records exhibit two P
	eScS	C 45 10	onsets, the first much smaller than the
	eSP	C 45(20)	second.
	iPPS	B 45 32	
	eSS	C 49.5	
	LmH	B 18 11.9	
	LmV	B 11.9	
	27.	-eiP1	A 19 14 30.9
+iP2		AB 14 33.2	36.12°N 77.79°E
-iPP		B 16 27	H = 19 05 48.5 h = 35 km MAG=5.4
+iPP		A 16 27.4	D = 48.6° Az = 309.1° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
27.	eS	B 19 21 30	PV1:1.2s 30.8nm PV2(B):4.8s 0.8 μ m
	eSS	C 25(00)	PPV(B):5s 1.0 μ m SaH(B):14.5s 5.1 μ m
	eiSa	BC 25 16	LmV:13s 6.4 μ m
	LmV	B 33.3	MPV1=5.3 MPV2(B)=6.1 MPPV=6.1 MLV=5.9
			Sa is the greatest phase in the long-period registrations, followed by clear developed higher mode surface waves.
28.	eP	A 01 43 44.5	<u>Rat Islands</u> 52.10°N 175.05°E
	e(PS)	C 54 20	H = 01 31 56.7 h = 45 km MAG=5.2
	eSS	C 58 35	D = 76.7° Az = 349.2° (USCGS)
	LmH	B 02 15.5	LmH:23s 0.5 μ m LmV:25s 0.5 μ m
	LmV	B 15.5	MLH=4.8 MLV=4.7
28.	+iP	A 04 15 46.0	<u>Kazakh SSR</u> 50.0°N 78.0°E
	ePn	A 17 18	H = 04 08 00 (BCIS)
	LmH	B 33.7	D = 41.1°
	LmV	B 33.7	PV:0.8s 66.0nm PH:1.0s 35.8nm
			LmH:8.5s 0.3 μ m LmV:9s 0.4 μ m MPV=5.6 MPH=5.6 MLH=4.5 MLV=4.7 Probably underground explosion.
28.	ePKP	A 06 48 49	<u>South of Fiji Islands</u> 23.82°S 179.71°W
	e	A 48 53.5	H = 06 29 45.6 h = 441 km MAG=4.4 D = 151.8° Az = 344.6° (USCGS)
28.	LmH	B 12 28.9	<u>Tadzhik SSR</u> 37.69°N 73.44°E
	LmV	B 31.7	H = 12 03 01.7 h = normal MAG=4.9 (USCGS) D = 45.0° LmH:18s 0.5 μ m LmV:11s 0.2 μ m MLH=4.5 MLV=4.4
28.	epP	A 12 28 47.5	<u>Uganda</u> 1.89°N 31.35°E
			H = 12 19 31.9 h = 40 km MAG=5.1 (USCGS) D = 51.4°
28.	ei(Pg)	A 15 34 13.8	<u>Rock burst/Ölsnitz, GDR</u>
	e(Sg)	A 34 21	

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Day	Phase	h m s	Remarks
29.	ePP A	05 04 10	<u>South of Mariana Is.</u> 19.93°N 143.31°E
	LmH C	54	H = 04 45 43.9 h = normal MAG=5.6 (USCGS)
	LmV C	54	D = 104.9° LmV:20s 0.3 μ m MLV=4.9
29.	e(P) A	07 10 15.5	
29.	ePKP A	11 29 11	<u>Fiji Islands</u> 19.17°S 176.26°W
	e A	29 13	H = 11 09 53.9 h = 236 km MAG=5.1
	e A	29 50	D = 148.0° Az = 350.5° (USCGS)
	e A	30 05	PV1:1.2s 18.6nm PV2:1.6s 45.5nm
29.	ePKP A	19 39 43	<u>Tonga Islands</u> 20.17°S 173.86°W
			H = 19 19 54.5 h = normal MAG=4.2 D = 149.3° Az = 353.2° (USCGS)
29.	+iP A	21 13 36.5	<u>Hokkaido/Japan Region</u> 43.31°N 145.68°E
	ei A	13 42.5	H = 21 01 44.3 h = 88 km MAG=5.3
	ipP A	14 00.0	D = 78.2° Az = 332.1° (USCGS); h = 93 km
	ei A	14 09	PV:1.5s 60.0nm pPV:1.6s 60.5nm
	eS B	23 22	SH:9s 0.4 μ m
	eSKS B	23 40	LmH:13s 0.3 μ m LmV:17s 0.3 μ m
	LmH B	52.2	MPV=5.2 MSH=5.6 MLH=4.9 MLV=4.7
	LmV B	52.5	e 13 46.5 e 14 24
29.	ePKP A	22 14 49	<u>Samoa Islands Region</u> 15.83°S 172.50°W
			H = 21 55 14.0 h = normal MAG=4.6 D = 145.1° Az = 355.4° (USCGS)
30.	ePKP A	07 25 43	<u>Tonga Islands</u> 19.40°S 175.76°W
			H = 07 06 20.0 h = 185 km MAG=4.2 (USCGS) D = 148.3°
30.	eP A	10 06 43	<u>Andreanof Islands/Aleutian Is.</u>
			50.14°N 176.60°W
			H = 09 54 38.3 h = 30 km MAG=5.0
			D = 79.3° Az = 354.7° (USCGS) PV:1.3s 16.7nm MPV=5.0

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Moxa

Day	Phase	h m s	Remarks
30.	LmH B	15 17.7	<u>Gulf of California</u> 24.16°N 108.68°W
	LmV B	17.8	H = 14 27 37.4 h = normal MAG=4.8 (USCGS) D = 88.7° LmH:19s 0.4 μ m LmV:20s 0.7 μ m MLH=4.9 MLV=5.1
30.	eP A	23 58 10.5	<u>Eastern Mediterranean Sea</u> 34.20°N 28.82°E
	ei A	58 17	H = 23 53 30.9 h = normal MAG=4.5
	LmH B	00 10	D = 20.7° Az = 327.8° (USCGS)
	LmV B	10	LmH:20s 0.2 μ m LmV:20s 0.3 μ m MLH=3.6 MLV=3.8
31.	eP A	11 49 39	<u>Windward Islands</u> 12.51°N 60.34°W
	e A	50 33	H = 11 38 39.0 h = 60 km MAG=5.1 (USCGS)
	LmH C	12 15	D = 69.0°
31.	LmH C	17 19.0	Probably Philippine Islands (USCGS)
31.	+iPKP A	18 07 49.5	<u>Fiji Islands Region</u> 15.77°S 179.67°W
			H = 17 49 07.5 h = 465 km MAG=4.1
			D = 144.0° Az = 347.8° (USCGS) PV:1.3s 19.4nm

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Moxa

Day	Phase	h m s	Remarks
1.	eP1	A 03 48 02	<u>Fox Islands/Aleutian Is.</u> 53.67°N 165.65°W H = 03 36 19.0 h = 60 km MAG=5.7 D = 76.0° Az = 1.8° (USCGS); h = 60 km PV2:1.2s 56.0nm pPV:1.2s 20.4nm LmH:20s 0.7 μ m LmV:22s 0.7 μ m MPV2=5.6 MLH=5.0 MLV=5.0 Multiple P-onset in the short-period records, the first much smaller than the second one.
	+iP2	A 48 02.7	
	epP	A 48 18.5	
	eiS	B 57 37	
	LQ	C 04 08.3	
	LR	C 12.5	
	ePKPPKP	A 15 14	
	LmV	B 23.5	
	LmH	B 25.0	
	1.	eP	
-eP1		A 10 43 40.5	
+iP2		A 43 41	
-eiP		B 43 42	
-iP3		A 43 44.0	
eS		C 47 12	
ei		B 47 19	
eLi		B 48 45	
eLg1		B 49 06	
LmH		B 51.4	
LmV	B 52.1		
1.	iPg	A 11 04 09.3	Explosion D = 1.5°
	i	A 04 28	
	iSg	A 04 29.5	
1.	e(P)	A 11 06 19	
1.	eP	A 11 15 48	<u>Kurile Islands</u> 44.46°N 149.00°E H = 11 03 52.4 h = 58 km MAG=5.1 D = 78.3° Az = 333.9° (USCGS) PV1:1.3s 11nm PV2:1.4s 22.7nm MPV=4.8
	e	A 16 07.5	

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Moxa

Day	Phase	h m s	Remarks
1.	e(P)	A 12 04 12	(P)V:1.8s 15.3nm
1.	e(P)	A 12 24 53.5	(P)V:0.8s 4.7nm
1.	e(Sg)	A 13 03 21	(Sg)V:1.6s 15.8nm
1.	e(Sg)	A 15 27 48.5	(Sg)V:0.9s 14.2nm
	e	A 27 49.5	
1.	e(Sg)	A 15 33 42.5	(Sg)V:0.9s 9.4nm
1.	e(Sg)	A 16 03 49	(Sg)V:1.0s 9.5nm
1.	e(Sg)	A 16 15 18	(Sg)V:0.8s 9.4nm
1.	-ePKIKP	A 21 06 47.5	<u>Solomon Islands</u> 6.82°S 154.97°E H = 20 47 45.6 h = 31 km MAG=5.6 (USCGS) D = 126.8° PV:1.4s 21.5nm
	ePS	C 18 46	
	ePPS	C 20 22	
	eSS	C 25.9	
	LmH	B 22(09)	
2.	eP	A 04 36 40.5	<u>Southern Sinkiang Prov./China</u> 41.05°N 88.09°E H = 04 27 33.2 h = normal MAG=4.9 D = 51.9° Az = 308.1° (USCGS) PV:1.2s 15.3nm MPV=5.0
	e	A 42 52	
2.	eP	A 05 16 20	<u>Eastern Caucasus</u> 43.55°N 47.47°E H = 05 10 54.9 h = 28 km MAG=5.0 D = 25.2° Az = 299.0° (USCGS) PV:1.2s 23.0nm LmH:14s 0.3 μ m LmV:12s 0.4 μ m MPV=4.7 MLH=4.0 MLV=4.2 Higher-mode surface waves are registered.
	e	A 17 20	
	e	B 24 30	
	eLg2	B 25 00	
	LmH	B 28.4	
	LmV	B 29.1	
2.	-eP	A 06 41 34	<u>Central Mid-Atlantic Ridge</u> 0.88°N 28.40°W H = 06 31 28.2 h = normal MAG=5.0 D = 60.0° Az = 28.2° (USCGS); h = 30 km
	e	A 41 36	
	epP	A 41 42	

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Moxa

Day	Phase	h m s	Remarks
cont.			
2.	e	A 06 41 46	PV1:1.2s 20.4nm PV2:1.2s 17.9nm
	eS	B 49 50	pPV:1.3s 27.8nm SH:12s 0.6 μ m MPV=5.1 MSH=5.5
2.	e(Sg)	A 10 34 15	Probably explosion.
	i	A 34 19	(Sg)V:0.7s 21.3nm
	e	A 34 34	
2.	eP	A 12 15 13	<u>Kurile Islands</u> 45.22°N 150.12°E H = 12 03 17.5 h = normal MAG=4.7 (USCGS) D = 77.9°
2.	e(Sg)	A 12 45 24.5	
2.	iSg	A 13 04 01.7	Explosion
2.	iPg	A 14 07 16.5	Explosion
	iSg	A 07 32.5	D = ca. 1.2°
2.	e(Sg)	A 16 03 14	(Sg)V:2.0s 22.2nm
2.	eP	A 20 23 09	<u>Sicily</u> 38.69°N 14.81°E
	ei	A 23 10.5	H = 20 20 21.9 h = 259 km MAG=4.0
	e	A 23 16.5	D = 12.2° Az = 350.3° (USCGS) PV2:1.0s 16.6nm PV3:1.0s 18.9nm
3.	eSKS	B 06 35 20	<u>Near Coast of Peru</u> 10.78°S 78.96°W
	ePS	C 37 44	H = 06 11 07.8 h = 33 km MAG=4.6 (USCGS)
	eSS	C 43.0	D = 98.7°
	LmH	B 07 15	LmH:18s 0.5 μ m LmV:18s 0.3 μ m
	LmV	B 15	MLH=5.1 MLV=4.9
3.	+iP	A 09 20 09.2	<u>Kodiak Island Region</u> 58.39°N 151.23°W
	+i(pP)	A 20 18.3	H = 09 08 56.4 h = 32 km MAG=5.5
	iPcP	A 20 30.5	D = 70.4° Az = 11.5° (USCGS); h = 35 km
	i	A 20 35.5	PV:1.1s 43.3nm (pP)V:1.4s 178nm
	eS	C 29 18	LmH:23s 0.6 μ m LmV:23s 0.9 μ m
	eiS	B 29 22	MPV=5.5 MLH=4.8 MLV=5.0

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Moxa

Day	Phase	h m s	Remarks
cont.			
3.	eSS	C 09 34.0	(pP) is much stronger than P. Another
	ePKPPKP	A 48 04	interpretation would be that (pP) is the
	LmH	B 50.0	P-onset of a second stronger shock in the
	LmV	B 50.0	same focus.
3.	eP	A 13 21 08	<u>Peru-Brazil Border Region</u> 8.49°S 74.44°W H = 13 08 06.8 h = 152 km MAG=5.2 D = 94.0° Az = 39.5° (USCGS)
3.	LmH	B 16 35.7	<u>Aegean Sea</u> 39.0°N 2474°E
	LmV	B 36.8	H = 16 27 02 (BCIS) D = 14.9° LmH:11s 0.6 μ m LmV:10s 0.5 μ m MLH=4.0 MLV=4.1
3.	e(P)	A 22 33 15	
4.	+iP	A 05 38 26.4	<u>Off East Coast of Kamchatka</u>
	i	A 38 28.0	51.39°N 159.28°E
	e	A 38 39.5	H = 05 26 44.6 h = 9 km MAG=4.8
	LmH	B 06 16.4	D = 74.7° Az = 339.3° (USCGS)
	LmV	B 16.4	PV:1.2s 28.0nm LmH:15.5s 0.9 μ m LmV:17s 1.0 μ m MPV=5.3 MLH=5.2 MLV=5.2
4.	eP	A 06 35 19	<u>Off East Coast of Kamchatka</u>
	e	A 35 37.5	51.46°N 159.28°E H = 06 23 38.4 h = 12 km MAG=4.6 D = 74.6° Az = 339.3° (USCGS) PV:1.0s 11.8nm MPV=5.0
4.	eP	A 06 46 04	<u>Off East Coast of Kamchatka</u>
			51.47°N 159.24°E H = 06 34 26.3 h = normal MAG=4.5 D = 74.6° Az = 339.3° (USCGS)

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Day	Phase	h m s	Remarks
4.	LmH	B 19 28.6	<u>Near Coast of Peru</u> 15.51°S 75.72°W H = 18 28 39.6 h = 38 km MAG=4.7 (USCGS) D = 100.2° LmH:16s 0.2/um MLH=4.8
5.	ePKIKP	A 01 41 04.5	<u>Tonga Islands</u> 21.26°S 174.53°W
	eiPKHKP	A 41 10.5	H = 01 21 20.2 h = normal MAG=5.2 (USCGS)
	eiPKP2	A 41 20.5	D = 150.2°
	ei	A 41 30	PV1:1.5s 16.8nm PV2:1.4s 85.9nm
	LmH	B 02 50.3	PV3:1.4s 98.1nm LmH:20s 1.1/um MLH=5.6
5.	-i	A 14 31 29.5	Explosion?
	+i	A 31 46	
	e	A 31 50	
5.	eP	A 16 50 13	<u>Off East Coast of Kamchatka</u>
	epP	A 50 24.5	51.46°N 159.15°E
	e	A 50 52.5	H = 16 38 36.2 h = normal MAG=4.5
	LmH	B 17 28.2	D = 74.6° Az = 339.2° (USCGS); h = 43 km
	LmV	B 28.2	PV:1.1s 14.4nm LmH:16s 0.4/um LmV:16s 0.5/um MPV=5.0 MLH=4.8 MLV=4.9
5.	i(Sg)	A 16 55 15.0	Explosion?
	e	A 55 20.5	
5.	e(P)	A 18 09 15.5	
	e	A 09 26	
	e	A 09 38	
6.	ePKIKP	A 06 54 11	<u>New Britain Region</u> 6.23°S 152.03°E
	e	A 54 21.5	H = 06 35 16.1 h = 58 km MAG=5.4
	e	A 54 29.5	D = 124.8° Az = 330.4° (USCGS) PV:1.3s 20.9nm

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Moxa

Day	Phase	h m s	Remarks
6.	i	A 09 02 59.5	Probably explosion.
	e	A 03 02.5	
	e	A 03 06	
7.	e(P)	A 02 22 08	
	e	A 22 25	
7.	eP	A 03 02 30	<u>Iceland</u> 63.83°N 19.01°E
	LmH	B 11.5	H = 02 57 48.7 h = normal MAG=4.5
	LmV	B 11.5	D = 20.9° Az = 114.7° (USCGS) PV:1.4s 28.6nm LmH:15s 0.4/um LmV:15s 0.3/um MPV=4.4 MLH=3.9 MLV=4.0
7.	e(PKP2)	A 10 17 53.5	<u>Tonga Islands</u> 20.69°S 174.88°W
	e	A 18 05.5	H = 09 57 59.1 h = normal MAG=4.3 D = 149.7° Az = 351.8° (USCGS)
7.	eP	A 15 58 57	<u>Crete</u> 34.21°N 26.43°E
	e	A 59 07	H = 15 54 26.4 h = 9 km MAG=4.7
	e	A 59 38	D = 19.7° Az = 334.6° (USCGS)
	LmH	B 16 08	
	LmV	B 08	
7.	ePn	A 16 20 16	<u>Austria</u> 47.95°N 14.33°E
	e(Pg)	A 20 27	H = 16 19 27.2 h = normal
	iSn	A 20 55.5	D = 3.2° Az = 327.6° (USCGS)
	i(Lg1)	A 21 08	PnV:0.7s 9.5nm
	i(Sg)	A 21 11.5	LmH:3s 0.8/um LmV:4s 0.5/um
	LmH	B 21 26	MLH=3.5
	LmV	B 21 32	
7.	eP	A 17 10 20.5	<u>USSR-Mongolia Border Region</u>
	e(pP)	A 10 24	49.42°N 97.18°E
	e	A 10 41	H = 17 01 12.9 h = normal MAG=5.0
	LmH	B 30.1	D = 52.0° Az = 306.3° (USCGS); h = 15 km
	LmV	B 34.6	PV:1.5s 26.8nm (pP)V:1.4s 21.5nm LmH:18s 0.5/um LmV:12s 0.8/um MPV=5.1 MLH=4.6 MLV=5.0

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Moxa

Day	Phase	h m s	Remarks
7.	eiP A	18 28 27.5	<u>Kurile Islands Region</u> 47.45°N 155.44°E H = 18 16 31.4 h = 29 km MAG=5.2 D = 77.4° Az = 337.4° (USCGS); (h = 47 km)
	ei(pP) A	28 40	
	ei A	28 56.5	
8.	e A	07 17 47	Probably to Mindanao/Philippine Islands (USCGS)
8.	eP A	12 15 46	<u>Talau Islands</u> 4.57°N 127.07°E H = 12 01 57.3 h = 73 km MAG=5.3 D = 102.2° Az = 324.0° (USCGS) LmH:20s 0.3 μ m LmV:20s 0.4 μ m MLH=4.8 MLV=5.0
	e A	19 23	
	ePP A	19 59	
	LmV B	13 05.4	
	LmH B	06.8	
8.	ePKIKP A	13 41 43.5	<u>Loyalty Islands Region</u> 21.41°S 170.27°E H = 13 22 13.7 h = 90 km MAG=5.3 (USCGS) D = 146.4° h = ca. 90 km PV2(A):1.0s 104nm LmH:30s 1.2 μ m LmV:26s 1.4 μ m MLH=5.4 MLV=5.6 e 41 57 e 42 04
	-iPKHKP A	41 45.0	
	-iPKHKP B	41 45.3	
	ipPKP B	42 09	
	eSPP C	57.6	
	eSS C	14 04.0	
	eSSP C	04.7	
	LmH B	40	
	LmV B	41	
	8.	e A	
i(Sg) A		01 35	
i A		01 40	
8.	e(P) A	20 14 37	Probably Crete (UPP)
	LmH C	23.2	
	LmV C	23.3	
8.	eSg A	21 15 50.5	<u>Yugoslavia</u> 43.5°N 20.8°E H = 21 10 57 (BCIS) D = 9.5°
8.	e A	21 29 58	<u>Yugoslavia</u> 46.0°N 14.8°E H = 21 27 20 (BCIS) D = 5.1°
	e(Sg) A	30 00	
	e A	30 08	

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Day	Phase	h m s	Remarks
9.	ePKP A	11 13 44	<u>Fiji Islands Region</u> 17.83°S 178.62°W H = 10 55 08.2 h = 576 km MAG=3.9 D = 146.3° Az = 348.2° (USCGS)
9.	iPg A	12 00 12.5	<u>Explosion/CSSR</u> 50°25'N 13°50'E D = 1.4° Yield: 11.2 t
	iSg A	00 33.0	
9.	iPKIKP A	13 01 08.5	<u>West of Macquarie Islands</u> 52.36°S 143.48°E H = 12 41 22.0 h = normal MAG=5.1 D = 150.4° Az = 286.2° (USCGS) LmH:22s 0.3 μ m LmV:22s 0.5 μ m MLH=4.9 MLV=5.3
	e A	01 33.5	
	LmH B	14 11.5	
	LmV B	11.5	
9.	e A	13 31 24.5	
	ei A	31 28	
9.	+iPKHKP A	17 24 46	<u>Fiji Islands</u> 20.62°S 178.64°W H = 17 05 58.9 h = 546 km MAG=4.5 D = 149.0° Az = 347.3° (USCGS) PV1:1.4s 18.4nm PV2:1.0s 9.5nm
	ePKP2 A	24 52	
10.	eP A	04 01 38.5	<u>Fox Islands/Aleutian Is.</u> 52.67°N 169.09°W H = 03 49 47.2 h = 32 km MAG=4.4 (USCGS) D = 77.1°
	e A	01 55	
	e A	02 30	
10.	ePg A	04 44 52	<u>Emilie/Italy</u> 44.6°N 10.5°E H = 04 42 49 (BCIS) D = 6.1°
	e(Sn) A	45 24.5	
	eSg A	46 07	
	e A	46 26	
10.	-ePKIKP A	05 45 28	<u>Near Coast of Southern Chile</u> 41.31°S 73.64°W H = 05 26 44.4 h = 37 km MAG=5.7 D = 117.9° Az = 45.9° (USCGS) PV:0.8s 11.8nm LmH:20s 0.8 μ m LmV:19s 1.2 μ m MLH=5.3 MLV=5.6
	e A	45 53	
	e A	46 05	
	LmH B	06 34.7	
	LmV B	34.7	

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Day	Phase	h m s	Remarks
10.	eP	A 05 55 45	<u>North of Ascension Island</u> 3.61°S 12.14°W H = 05 45 52.8 h = 12 km MAG=5.1 D = 57.8° Az = 17.6° (USCGS); (h = 24 km) PV:2.0s 72.6nm LmH:16s 0.9/um LmV:15s 1.0/um MPV=5.5 MLH=5.0 MLV=5.1
	ei(pP)	A 55 51	
	eS	C 06 03 46	
	eSS	C 07.6	
	LmH	B 14.8	
	LmV	B 21.1	
10.	eP	A 06 41 50	<u>USSR-Mongolia Border Region</u> 49.49°N 97.29°E H = 06 32 43.0 h = normal MAG=4.5 D = 52.0° Az = 306.3° (USCGS) PV:1.5s 10nm LmV:12s 0.4/um MPV=4.7 MLV=4.8
	e	A 41 54	
	LmH	B 07 02.3	
	LmV	B 06.1	
10.	LmV	B 06 56.5	LmV:15s 0.4/um
10.	ePKIKP	A 14 17 28.5	<u>Fiji Islands Region</u> 19.35°S 178.23°W H = 13 58 53.3 h = 596 km MAG=5.1 D = 147.8° Az = 348.2° (USCGS); h = ca. 600 km PV2:0.8s 28.4nm PV3:1.2s 40.8nm
	eiPKHKP	A 17 32.5	
	iPKP2	A 17 37.5	
	epPKP	A 19 52.5	
10.	i(PKHKP)	A 14 26 01.0	Aftershock to Fiji Islands earthquake?
	e(PKP2)	A 26 05	
	e(pPKP)	A 28 20	
10.	eP	A 18 14 29	<u>North Atlantic Ocean</u> 16.40°N 46.64°W H = 18 04 39.6 h = normal MAG=4.9 D = 57.5° Az = 40.0° (USCGS); (h = 24 km) LmH:18s 0.3/um LmV:18s 0.5/um MLH=4.5 MLV=4.7
	e(pP)	A 14 35	
	eS	C 22.5	
	e(SS)	C 26.1	
	eLQ	C 28.5	
	eLR	C 31 16	
	LmH	B 38.4	
	LmV	B 38.4	

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Day	Phase	h m s	Remarks
11.	eP	A 05 38 38	<u>Greece</u> 38.07°N 22.87°E H = 05 35 03.7 h = 37 km MAG=4.4 D = 14.9° Az = 331.1° (USCGS)
	e	A 38 52	
	LmH	C 45.2	
	LmV	C 45.2	
11.	e(P)	A 09 52 19	
11.	e	A 10 41 03.5	Vienna gives: Malé Karpaty/ČSSR?
	eiSg	A 41 08	
11.	e	A 11 39 40	
11.	e(P)	A 11 54 32	
	e	A 54 57	
11.	+eP	A 12 02 08.5	<u>Kurile Islands</u> 47.53°N 154.38°E H = 11 50 17.4 h = 36 km MAG=4.9 D = 77.1° Az = 336.7° (USCGS) PV:1.1s 19.2nm LmH:15s 0.2/um LmV:15s 0.3/um MPV=5.1 MLH=4.6 MLV=4.8
	e	A 02 14.5	
	LmH	B 41.5	
	LmV	B 41.5	
12.	eP	A 00 14 52	<u>North Atlantic Ridge</u> 16.59°N 46.62°W H = 00 05 06.5 h = normal MAG=5.1 D = 57.3° Az = 40.0° (USCGS) PV:2.5s 61.8nm LmH:18s 0.2/um LmV:16s 0.2/um MPV=5.3 MLH=4.3 MLV=4.4
	e	A 14 59.5	
	e	A 15 04.5	
	e	A 15 09	
	LmH	B 38.5	
	LmV	B 38.5	
12.	e(PKIKP)	A 00 23 20.5	<u>Tonga Islands</u> 20.97°S 174.55°W H = 00 03 32.4 h = normal MAG=5.0 D = 150.0° Az = 352.1° (USCGS) PV1:1.5s 20.2nm PV2:1.8s 30.6nm PV3:1.4s 30.6nm PV4:1.4s 18.4nm
	e(PKHKP)	A 23 26.5	
	e(PKP2)	A 23 34.5	
	e	A 23 52	
12.	e	A 01 08 45.5	
12.	ePKP	A 01 08 50	<u>Tonga Islands</u> 21.06°S 174.38°W H = 00 48 59.2 h = 13 km MAG=5.1
	i	A 08 51.5	

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Day	Phase	h m s	Remarks
cont.			
12.	e1	A 01 09 02.5	D = 150.1° Az = 352.3° (USCGS)
	ei	A 09 10.5	PV2:1.4s 24.5nm PV3:1.3s 38.9nm PV4:1.4s 43.0nm
12.	e(P)	A 01 32(44)	<u>Greece</u> 38.16°N 22.82°E
	e	A 32 47.5	H = 01 29 06.9 h = 27 km MAG=4.5
	e	A 32 54	D = 14.8° Az = 331.1° (USCGS)
	e	A 33 01	LmH:13s 0.5/um LmV:14s 0.7/um
	e	A 34 52	MLH=3.9 MLV=4.1
	LmH	B 39.5	The first onset of P must be about 8 s
	LmV	B 39.5	earlier than e(P).
12.	e(P)	A 02 09 14	<u>North Atlantic Ridge</u> 16.72°N 46.65°W
	e	A 09 20	H = 01 59 28.1 h = normal MAG=4.8 (USCGS)
	e	A 09 26	D = 57.2°
	LmH	B 26.0	LmH:16s 0.2/um LmV:16s 0.2/um
	LmV	B 26.0	MLH=4.2 MLV=4.4
			The first onset is very doubtful. The later onsets are bigger than the first one.
12.	eP	A 02 54 35	<u>Greece</u> 38.24°N 22.73°E
	e	A 54 39.5	H = 02 51 05.5 h = normal MAG=4.8
	eSS	B 57 34	D = 14.7° Az = 331.1° (USCGS)
	eLg1	B 58 58	PV1:1.5s 10.1nm PV2:1.4s 17.2nm
	eLg2	B 59 28	LmH:12s 3.2/um LmV:14s 3.7/um
	LmH	B 03 01.6	MLH=4.7 MLV=4.8
	LmV	B 01.6	e 54 44.5 e 58 10
12.	eP	A 03 20 45	<u>Southern Sumatra</u> 3.04°S 100.63°E
	epP	A 20 54	H = 03 07 38.8 h = normal MAG=5.1 (USCGS)
	e	A 21 08	D = 91.7° h = 32 km
	eS	C 31 44	LmH:20s 0.4/um LmV:20s 0.5/um
	LmH	B 04 08	MLH=4.9 MLV=5.0
	LmV	B 10	
12.	eP	A 05 34(45)	<u>Prince Edward Islands</u> 44.94°S 35.70°E
	ePP	B 38 36	H = 05 21 10.6 h = 36 km MAG=5.6

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Day	Phase	h m s	Remarks
cont.			
12.	e(Pa)	B 05 42 16	D = 97.5° Az = 344.8° (USCGS)
	eSKS	C 45 20	PSH:18s 1.8/um
	eS	C 46 08	LmH:21s 3.6/um LmV:20s 3.6/um
	iPS	B 47 35	MLH=5.8 MLV=5.9
	eSS	C 52 40	e 40 10 e 53 18
	LmV	C 06 21.2	
	LmH	C 21.5	
12.	e(P)	A 05 45 24.5	
12.	LmH	B 11 10.8	<u>Southern Greece</u> 37.25°N 23.09°E
	LmV	B 10.8	H = 11 00 15.2 h = normal MAG=4.5 (USCGS)
			D = 15.8°
			LmH:12s 0.4/um LmV:12s 0.4/um
			MLH=3.8 MLV=4.0
12.	e	A 11 29 30	Near earthquake?
12.	iPg	A 13 07 13.2	Explosion
	iSg	A 07 29.5	D = ca. 1.2°
12.	eP	A 15 15 38.5	<u>South of Skikotan Is.</u> 43.4°N 146.8°E
			H = 15 03 39 h = normal (AN USSR)
			D = 78.5°
12.	eP	A 18 15 55.5	<u>Greece</u> 39.21°N 21.43°E
	e	A 15 58	H = 18 12 47.4 h = 55 km MAG=4.5
	e	A 16 06.5	D = 13.4° Az = 332.0° (USCGS)
	LmH	B 21.8	PV1:1.0s 9.5nm PV2:1.0s 16.6nm
	LmV	B 21.8	PV3:0.7s 14.2nm
			LmH:10s 0.6/um LmV:12s 0.7/um
			MLH=3.9
			AN USSR gives: Ionian Islands
			38.2°N 20.9°E
			H = 18 12 32 h = normal
			D = 14.1°

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Day	Phase	h m s	Remarks
12.	eP	A 21 30 55	<u>Southern Sumatra</u> 3.08°S 100.57°E
	epP	A 31 04.5	H = 21 17 48.9 h = normal MAG=5.4
	e	A 31 18	D = 91.7° Az = 320.4° (USCGS); h = 34 km
	eSKKS	C 41 36	LmH:20s 0.5 μ m LmV:20s 0.6 μ m
	eS	C 41 53	MLH=5.0 MLV=5.1
	ePS	C 43 06	
	LmH	B 22 18.3	
	LmV	B 20	
12.	+iP	A 23 34 34.5	<u>Kurile Islands</u> 47.42°N 154.32°E
	+iP	B 34 35.0	H = 23 22 45.3 h = 56 km MAG=5.4
	i	A 34 37.2	D = 77.2° Az = 336.7° (USCGS)
	eS	C 44 16	PV(A):1.0s 94.8nm PV(B):6s 1.4 μ m
	ePS	C 44 56	PH(B):5s 0.5 μ m SH:8s 0.8 μ m
	eSS	C 49.3	LmH:16s 6.1 μ m LmV:16s 6.3 μ m
	LQ	C 55	MPV(A)=5.9 MPV(B)=6.2 MPH(B)=6.3
	LmH	B 00 15	MSH=5.9 MLH=6.0 MLV=6.1
	LmV	B 15	
	13.	eP	A 01 23 11
epP		A 23 18	H = 01 10 05.9 h = normal MAG=5.0
e		A 23 37	D = 91.7° Az = 320.4° (USCGS); h = 25 km PV:1.2s 7.7nm MPV=4.9
13.	eP	A 02 54 36	<u>Kurile Islands</u> 47.60°N 154.27°E
			H = 02 42 45.1 h = 32 km MAG=4.6 D = 77.0° Az = 336.6° (USCGS)
13.	ePKP	A 03 31 36	<u>Loyalty Islands Region</u> 21.23°S 169.64°E
			H = 03 11 59.0 h = normal MAG=4.5 D = 145.9° Az = 334.8° (USCGS)
13.	e(Sg)	A 06 02 10	Near earthquake?
	e	A 02 17	
13.	eP	A 09 51 13.5	<u>Svalbard</u> 78.65°N 8.20°E
			H = 09 45 22.4 h = normal MAG=4.6 D = 28.1° Az = 175.4° (USCGS) PV:1.1s 9.6nm MPV=4.5

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Day	Phase	h m s	Remarks
13.	ePg	A 12 00 51	<u>Explosion/ČSSR-GDR Border Region</u>
	e	A 00 59.5	D = 2.0° Yield: 10.2 t
	eSg	A 01 16.5	e 01 22.5 e 01 45.5 e 01 55
13.	e	A 12 11 34	Near earthquake?
	e(Sg)	A 12 15	
	e	A 12 26	
13.	e	A 15 22 12	Explosion?
	e	A 22 15	
	ei	A 22 21.5	
13.	eP	A 15 38 35.5	<u>Molucca Passage</u> 0.28°N 125.48°E
	e	A 38 46.5	H = 15 24 29.1 h = normal MAG=4.5 D = 104.7° Az = 323.0° (USCGS)
13.	ePKIKP	A 15 58 00	<u>New Britain Region</u> 5.58°S 148.12°E
	epPKIKP	A 58 53	H = 15 39 29.7 h = 213 km MAG=5.4 (USCGS)
	ePP	A 59 38.5	D = 122.3° h = 213 km
	e(S)	C 16 07 12	LmH:20s 0.65 μ m
	eSS	C 16.0	e 59 30 e 59 51 e 01 12.5 e 08 52
	e(sSS)	C 17.5	
	i	C 17 40	
	LmH	B 42.7	
13.	e	A 16 06 37.0	
13.	ei(Sn)	A 17 41 19.3	<u>Austria</u> 47.5°N 14.3°E
	i	A 41 30	H = 17 39 46 (BCIS)
	iSg	A 41 32.5	D = 3.6°
	i(Lg2)	A 41 42.1	
13.	eP	A 23 15 10	<u>Eastern Caucasus</u> 42.01°N 45.31°E
	e	A 15 25	H = 23 09 51.8 h = normal MAG=4.6
	e	A 15 55	D = 24.6° Az = 302.1° (USCGS)
	eS	C 19 40	LmH:16s 0.2 μ m LmV:15s 0.3 μ m
	LmH	B 25.2	MLH=3.7 MLV=4.1
	LmV	B 26.0	

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Moxa

Day	Phase	h m s	Remarks
14.	eP A	03 27 45	<u>Peru</u> 14.86°S 73.42°W
	epP A	28 13	H = 03 14 17.5 h = 99 km MAG=5.6 D = 98.2° Az = 39.9° (USCGS); h = 109 km PV:1.8s 25.5nm MPV=5.6
14.	-eiP A	03 57 14.5	<u>Near E. Coast of Eastern Russia</u> 45.31°N 136.92°E H = 03 46 20.3 h = 360 km MAG=4.7 D = 73.3° Az = 327.2° (USCGS) PV:0.9s 14.1nm MPV=4.7 AN USSR gives: Sikhota Alin, h = 268 km
14.	-ePKP A	05 25 53.5	<u>Tonga Islands</u> 15.24°S 173.61°W
	+i A	25 55.8	H = 05 06 16.3 h = 11 km MAG=5.9
	e A	26 06	D = 144.4° Az = 354.3° (USCGS)
	e A	26 08	PV1:1.2s 20.4nm PV2:1.6s 91.6nm
	LmH B LmV B	06 22.5 22.5	PV3:1.8s 112nm PV4:1.7s 96.5nm LmH:24s 1.0 μm LmV:24s 0.8 μm MLH=5.4 MLV=5.4
14.	e(Sg) A	06 10 42	
14.	e(Sg) A	06 25 55	
14.	ei(P) A	07 12 13	(P)V:1.2s 10.2nm
14.	+eP A	08 17 47.5	<u>Kurile Islands</u> 47.54°N 154.43°E
	+iP B	17 48	H = 08 05 58.6 h = 55 km MAG=5.3
	eipP A	18 01.5	D = 77.1° Az = 336.7° (USCGS); h = 50 km
	eisP A	18 05	PV(A):2.2s 176nm PV(B):4s 0.65 μm
	eS B	27 32	pPV:1.5s 53.6nm sPV:1.9s 106nm
	eSS C	32 32	LmH:16s 2.8 μm LmV:16s 4.1 μm
	LQ C	39.5	MPV(A)=5.8 MPV(B)=6.1 MLH=5.7 MLV=5.9
	LmH B	56.8	e 18 20 (V:2.0s 87.5nm) e 27 40
	LmV B	57.4	

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Moxa

Day	Phase	h m s	Remarks
14.	+iP A	08 24 51.5	<u>Kurile Islands</u> 47.48°N 154.49°E
	+iP B	24 52	H = 08 13 02.2 h = 53 km MAG=5.4
	ei A	24 55.5	D = 77.2° Az = 336.8° (USCGS); h = 50 km
	eipP A	25 05	PV(A):1.5s 121nm PV(B):4s 0.6 μm
	eisP A	25 09.5	LmH:18s 2.3 μm LmV:18s 2.3 μm
	LmH B LmV B	09 03.9 04.5	MPV(A)=5.8 MPV(B)=6.0 MLH=5.5 MLV=5.6
14.	eiPg A	09 00 23.5	<u>Explosion/GDR</u> 51°01.1'N 13°10.2'E
	iSg A	00 38.5	D = 1.0° Yield: 14.2 t
14.	e(Sg) A	09 46 18	
14.	ei(Sg) A	10 53 09.5	
14.	eP A	15 47 42	<u>Kurile Islands</u> 46.50°N 153.17°E
			H = 15 35 46.3 h = normal MAG=4.5
			D = 77.7° Az = 336.1° (USCGS) PV:1.2s 12.8nm MPV=4.9 AN USSR gives: H = 15 35 55 h = 110 km
14.	e(Sg) A	16 51 16	Probably explosion.
	e A	51 27	
15.	eiPKHKP A	05 09 33	<u>Tonga Islands</u> 21.63°S 174.72°W
	ePKP2 A	09 43	H = 04 49 41.4 h = normal MAG=4.8
	e A	09 54	D = 150.6° Az = 351.8° (USCGS)
15.	eP A	07 29 56.5	<u>Central Mid-Atlantic Ridge</u> 1.02°N 29.59°W
	LmH C	53.7	H = 07 19 45.3 h = 24 km MAC=4.6 (USCGS)
	LmV B	54	D = 60.5° LmH:19s 0.2 μm LmV:18s 0.45 μm MLH=4.3 MLV=4.7
15.	iPg A	12 59 06.7	<u>Explosion/GDR</u>
	eSg A	59 19.5	D = ca. 1.0°
	i A	59 20.2	
	e A	59 33	

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Day	Phase	h m s	Remarks
15.	eP A	15 01 01	<u>Cyprus</u> 34.13°N 32.54°E H = 14 56 05.6 h = 62 km MAG=5.0 (USCGS) D = 22.5° h = 60 km PV:1.1s 48.0nm pPV:1.0s 42.6nm sPV:1.2s 30.6nm MPV=4.9
	ipP A	01 14.8	
	eisP A	01 22	
	eS C	05 05	
15.	e(Sg) A	15 23 12	(Sg)V:1.2s 12.8nm
15.	e A	15 47 21.5	Probably near earthquake.
	eSg A	47 31	
15.	LmH C	18 28.5	<u>South Atlantic Ridge</u> 43.88°S 16.06°W H = 17 33 56.5 h = normal MAG=5.0 (USCGS) D = 97.2° LmH:20s 0.2 μ m LmV:20s 0.2 μ m MLH=4.6 MLV=4.7
	LmV C	28.5	
15.	LmH C	18 38.5	<u>South Atlantic Ridge</u> 43.87°S 16.00°W H = 17 44 14.9 h = normal (USCGS) D = 97.2° LmH:20s 0.15 μ m LmV:20s 0.2 μ m MLH=4.5 MLV=4.7
	LmV C	38.5	
15.	eP A	18 52 00	<u>Central Mid-Atlantic Ridge</u> 9.09°N 40.39°W H = 18 41 57.7 h = normal MAG=4.8 D = 59.5° Az = 35.6° (USCGS); h = 27 km PV:1.5s 25.0nm pPV:1.5s 40.0nm LmH:25s 0.4 μ m LmV:25s 0.4 μ m MPV=5.1 MLH=4.5 MLV=4.5 AN USSR gives: 11.0°N 39.9°W H = 18 42 09 h = normal D = 57.6°
	epP A	52 07	
	e A	52 12.5	
	LmH C	19 11.5	
	LmV C	11.5	
15.	LmH C	21 59.9	<u>New Ireland Region</u> 5.43°S 153.03°E H = 20 44 47.9 h = 65 km MAG=5.0 (USCGS) D = 124.7° LmH:20s 0.2 μ m LmV:20s 0.2 μ m MLH=4.8 MLV=4.8
	LmV C	59.9	

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Day	Phase	h m s	Remarks
16.	ePKP A	06 04 03	<u>West of Macquarie Island</u> 55.69°S 146.82°E H = 05 44 02.2 h = 27 km MAG=5.4 D = 153.1° Az = 278.2° (USCGS)
	e A	04 21	
16.	ePKP A	06 23 09	<u>West of Macquarie Is.</u> 55.55°S 147.34°E H = 06 03 16.6 h = normal MAG=5.2 D = 153.3° Az = 278.1° (USCGS) LmV:22s 0.3 μ m MLV=5.0
	e A	23 17	
	i A	23 22.0	
	e A	23 33.5	
	LmH C	07 37	
16.	LmV C	37.5	
	ePKP A	20 31 51.5	<u>Tonga Islands</u> 19.41°S 175.17°W H = 20 12 15.1 h = 90 km MAG=5.0 D = 148.4° Az = 351.7° (USCGS) PV:1.2s 15.3nm
16.	e A	32 14	
	LmH C	21 06	Probably Panama-Columbia Border Region LmH:25s 0.3 μ m LmV:25s 0.2 μ m (MLH=4.5 MLV=4.5)
16.	LmV C	06	
	eSg A	23 01 45	<u>Yugoslavia</u> 44.0°N 20.0°E H = 22 56 57 (BCIS) D = 8.8°
17.	eP A	00 28 29	<u>Southern Sinkiang Prov./China</u> 40.73°N 89.56°E H = 00 19 07.9 h = 0 km MAG=4.6 (USCGS) D = 53.0° LmH:14s 1.4 μ m LmV:14s 1.7 μ m MLH=5.2 MLV=5.3 Atmospheric nuclear explosion.
	LmH B	51.9	
	LmV B	51.9	
17.	LmH B	02 01	<u>Northern Easter Is. Cordillera</u> 4.50°S 104.73°W H = 00 56 29.4 h = normal MAG=4.8 (USCGS) D = 110.0° LmH:18s 0.6 μ m LmV:18s 0.6 μ m MLH=5.2 MLV=5.2
	LmV B	01	

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Day	Phase	h m s	Remarks
17.	e(pP)	B 05 15 19	<u>South Sandwich Islands Region</u>
	+iPKIKP	A 18 32.5	58.30°S 26.63°W
	e1PP	B 19 24.5	H = 05 00 11.8 h = 140 km MAG=6.1
	eiPP	A 19 25.5	D = 113.0° Az = 25.4° (USCGS);
	ipPP	B 20 00	h = ca. 140 km
	iSKS	B 25 00	PV2:1.1s 44.4nm SKSH:7s 3.3 μ m
	isSKS	B 26 11	sSKSH:9s 4.1 μ m SPV:10.5s 8.9 μ m
	eiSP	B 28 46	sSPV:10s 7.1 μ m
	eiPKKP1	A 29 20.5	LmH:19s 4.7 μ m LmV:19s 9.4 μ m
	iPKKP2	A 29 27.5	MLH=6.1 MLV=6.4
	e1sSP	B 29 43	e 19 04.5 e 19 17 e 19 21 e 19 44
	ePcPPKP	A 33 21	e 28 24 ei 30 18.5 ei 39 05
	LmH	B 06 01.6	
	LmV	B 03.3	
17.	e	A 10 01 50	Probably to Eastern Caucasus
	e	A 03 25	41.75°N 45.27°E
	e	A 03 31	H = 09 56 10.4 h = normal MAG=4.4 (USCGS) D = 24.6° The first onset of P must be about 21 s earlier.
17.	ePn	A 15 45 14	<u>Southern Italy</u> 41.57°N 16.23°E
	e	A 45 20	H = 15 42 55.4 h = 24 km MAG=4.4
	ePg	A 46 12	D = 9.6° Az = 342.2° (USCGS)
	eLg2	A 48 26	e 47 00 e 45 27
17.	ePg	A 17 46 59.5	<u>Carpathes/CSSR</u> 48.4°N 17.5°E
	e	A 47 38.5	H = 17 45 41 (BCIS)
	i(Sg)	A 47 54.5	D = 4.4°
	i	A 47 57.5	LmH:7s 0.8 μ m LmV:5s 0.9 μ m
	LmH	B 48.4	MLH=3.4
LmV	B 48.7	ei 48 08.5	
17.	eP	A 17 56 29	<u>Guatemala</u> 14.08°N 90.01°W
	epP	A 56 56.5	H = 17 43 55.2 h = 103 km MAG=4.8 (USCGS) D = 86.5° h = 105 km

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Moxa

Day	Phase	h m s	Remarks
17.	ePg	A 20 23 42	<u>Valais/Switzerland</u> 46.4°N 7.4°E
	iSn	A 24 13.0	H = 20 22 02 (BCIS)
	eiSg	A 24 47	D = 5.1°
18.	LmH	B 01 52.4	<u>Tibet</u> 35.24°N 87.64°E
	LmV	B 55.4	H = 01 20 21.6 h = normal MAG=3.9 (USCGS) D = 55.3° LmH:17s 1.4 μ m LmV:16s 0.5 μ m MLH=5.1 MLV=4.8
18.	eP	A 05 33 12.5	<u>Turkey</u> 36.78°N 29.50°E
	e	A 33 15	H = 05 28 54.1 h = 43 km MAG=4.8
	e	A 33 23	D = 18.9° Az = 322.8° (USCGS)
	e	A 33 39	PV1:1.1s 16.8nm PV2:1.2s 20.4nm
	LmH	B 39.6	LmH:14s 0.6 μ m LmV:9s 0.5 μ m
LmV	B 40.5	MLH=4.0 MLV=4.3	
18.	eSg	A 09 59 39.5	<u>Yugoslavia</u> 45.8°N 16.0°E
	e	A 59 42.5	H = 09 56 37 (BCIS) D = 5.7°
18.	LmV	B 15 04.5	<u>Santa Cruz Islands</u> 12.41°S 166.16°E
	LmH	B 08.4	H = 14 04 42.8 h = 38 km MAG=4.3 (USCGS) D = 136.7° LmH:18s 0.3 μ m LmV:20s 0.4 μ m MLH=5.0 MLV=5.2
18.	epP	A 16 47 37	<u>Afghanistan-Hindukush Border Region</u>
	e	A 47 56.5	37.43°N 71.89°E H = 16 39 11.7 h = normal MAG=5.0 (USCGS) D = 44.1° h = ca. 100 km
18.	ePKIKP	A 20 23 18.5	<u>New Ireland Region</u> 3.89°S 151.64°E
	ePP	A 25 59.5	H = 20 04 56.7 h = 301 km MAG=4.9 D = 122.6° Az = 331.0° (USCGS) AN USSR gives: 4.1°S 152.2°E H = 20 04 25 h = normal

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Day	Phase	h m s	Remarks
18.	e	A 21 50 00.5	<u>Carpathes/ČSSR</u> 48.4°N 17.5°E
	eiSg	A 50 04.5	H = 21 47 45 (BCIS)
	e	A 50 19.5	D = 4.4°
	e	A 50 28	e 50 06.5 e 50 23
19.	e	A 00 24 29.5	<u>Carpathes/ČSSR</u> 48.4°N 17.5°E
	e	A 25 06.5	H = 00 23 00 (BCIS)
	ei	A 25 15.5	D = 4.4°
	eSg	A 25 20	
19.	iPg	A 14 13 19.3	Explosion
	eiSg	A 13 35.3	D = ca. 1.2°
19.	+iP	A 14 42 24.9	<u>Red Sea</u> 20.65°N 38.39°E
	eS	B 48 02	H = 14 35 20.2 h = 35 km MAG=4.5
	LmH	B 15(00)	D = 36.6° Az = 331.3° (USCGS)
	LmV	B (00)	PV:1.8s 71.5nm MPV=5.3
19.	+iP	C 17 19 36.0	<u>Fox Islands/Aleutian Is.</u> 52.74°N 166.92°W
	+iP1	A 19 36.4	H = 17 07 45.4 h = normal MAG=5.7
	+iP	B 19 36.8	D = 77.0° Az = 1.0° (USCGS); h = 34 km
	-iP2	A 19 38.2	PV1(A):0.8s 23.6nm PV2(A):1.6s 318nm
	iP2	A 19 47.5	PV(B):8s 2.8/um SH:15s 1.8/um
	eS	B 29 23	LmH:16s 5.4/um LmV:18s 7.7/um
	iPPS	B 30 22	MPV1(A)=5.4 MPV2(A)=6.2 MPV(B)=6.4
	eSS	C 34 28	MSH=6.0 MLH=6.0 MLV=6.1
	e(SSS)	C 38.0	e 20 12 e 20(16) e 40.0
	e(Sa)	C 38 45	Multiple P-onset in the short-period records, the first much smaller than the second one.
	eSa	B 39.0	
	eLQ	C 39.5	
	eLR	C 44 25	
	LmH	B 18 04.3	
	LmV	B 04.6	
20.	e(Sg)	A 00 26 04	
20.	e(P)	A 02 21 54	Probably Aleutian Islands
	e	A 22 26	

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Day	Phase	h m s	Remarks
20.	+eP	A 05 37 14	<u>Fox Islands/Aleutian Is.</u> 52.81°N 167.06°W
			H = 05 25 22.4 h = 31 km MAG=4.5
			D = 76.9° Az = 0.9° (USCGS)
			PV:1.6s 36.8nm MPV=5.3
20.	eP	A 06 32 44.5	<u>Fox Islands/Aleutian Is.</u> 52.74°N 166.94°W
	ei	A 32 49	H = 06 20 49.5 h = 9 km MAG=4.5 D = 77.0° Az = 0.9° (USCGS) PV:1.3s 25.0nm MPV=5.2
20.	eP	A 07 47 36.5	<u>Fox Islands/Aleutian Is.</u> 52.88°N 166.90°W
			H = 07 35 45.2 h = 29 km MAG=4.0
			D = 76.8° Az = 1.0° (USCGS)
			PV:1.4s 23.8nm MPV=5.1
20.	+eP1	A 07 50 38	<u>Fox Islands/Aleutian Is.</u> 52.82°N 167.07°W
	+eP	B 50 39	H = 07 38 44.9 h = 11 km MAG=5.2
	eiP2	A 50 40.5	D = 76.9° Az = 0.9° (USCGS);
	eipP	A 50 51.5	h = ca. 45 km
	eiPP	A 53 40	PV(B):10s 1.2/um PV2(A):1.1s 48.0nm
	eS	B 08 00 24	SH(B):15s 1.0/um
	eiS	C 00 40	LmH:15s 2.7/um LmV:16s 3.3/um
	eSS	C 05 30	MPV(B)=6.0 MPV2(A)=5.5 MSH(B)=5.7
	e(SSS)	C 09 18	MLH=5.7 MLV=5.8
	eSa	B 10.1	e 53 50 e 10 40
	LQ	C 11	P is multiple in the short-period records.
eLR	C 15 35	P1 is a small-amplitude precursor.	
LmV	B 35.7		
LmH	B 36.8		
20.	eP	A 12 37 44.5	<u>Fox Islands/Aleutian Is.</u> 52.76°N 166.89°W
	e	A 37 51	H = 12 25 50.2 h = 11 km MAG=4.6
	e	A 37 55.5	D = 77.0° Az = 1.0° (USCGS) PV:1.0s 11.8nm MPV=5.0

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Moxa

Day	Phase	h m s	Remarks
20.	e A	12 43 39	
20.	i(Pg) A	12 51 27.0	Explosion
	i A	51 32.5	
	iSg A	51 35.8	
20.	eiPg A	13 03 15.5	Explosion/GDR 51°17.2'N 12°43.8'E
	eiSg A	03 29.5	D = 1.0° Yield: 1.0 t
20.	e(P) A	16 40 43	Greece 38.47°N 20.85°E
	e A	40 45	H = 16 37 24.8 h = normal MAG=4.8 (USCGS)
	e A	40 53	D = 13.8°
	e A	41 03.5	
20.	i(Sg) A	21 53 25.9	
21.	eP A	02 16 09.5	Central Mid-Atlantic Ridge 8.69°N 39.66°W
	e A	16 14	H = 02 06 07.9 h = normal MAG=4.7
	LmH C	40	D = 59.4° Az = 35.3° (USCGS)
	LmV B	40	PV:1.8s 25.5nm
21.	eP A	07 03(00)	Peru-Ecuador Border Region 2.17°S 77.57°W
	e A	03 32	H = 06 49 56.6 h = 49 km MAG=5.3
	eSKS C	13 36	D = 91.1° Az = 39.5° (USCGS)
	iS C	13 57	PV:2.0s 92.7nm
	ePS C	15(10)	LmH:19s 0.7 μ m LmV:19s 1.4 μ m
	eSS C	20 05	MPV=5.7 MLH=5.2 MLV=5.4
	eLQ C	28.0	The beginning of LQ is a very clear G-wave.
	LmV B	42.4	
	LmH B	46.5	
21.	LmH B	12 22.5	LmH:18s 0.5 μ m
	LmV B	26	
21.	e(Sg) A	14 18 19	(Sg)V:0.9s 9.4nm
21.	e(P) A	15 36 02	(P)V:1.0s 9.5nm

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Moxa

Day	Phase	h m s	Remarks
21.	eP A	15 58 38	Luzon/Philippine Islands 12.73°N 123.11°E
	epP A	58 53.5	H = 15 45 28.3 h = 56 km MAG=5.2
	eS C	16 09 44	D = 93.4° Az = 323.6° (USCGS); h = 52 km
	eiS C	09 46	PV:0.6s 9.5nm
	ePS C	10 46	LmH:17s 3.5 μ m LmV:19s 2.9 μ m
	eSS C	15.9	MPV=5.3 MLH=5.9 MLV=5.7
	eSSS C	19.6	e 02 58 e 03 13 e 03 58 e 05 58.5
	eiLQ C	23.0	
	LmV B	41.6	
	LmH B	41.8	
21.	ePKIKP A	16 05 52	West of Macquarie Is. 55.42°S 146.93°E
	ePKHKP A	05 59	H = 15 46 01.7 h = normal MAG=5.0 (USCGS)
	e A	06 02	D = 153.0°
	ePKP2 A	06 12	
21.	eP A	18 15 21.5	Central Alaska 64.76°N 147.37°W
	epP A	15 26.5	H = 18 04 49.5 h = 17 km MAG=5.4
	e A	15 37	D = 63.8° Az = 14.7° (USCGS); h = 19 km
	eS C	23 55	PV:1.8s 56.1nm pPV:1.2s 30.6nm
	eSSS C	31 00	LmH:18.5s 2.5 μ m LmV:19s 3.4 μ m
	LmH B	53.8	MPV=5.5 MLH=5.4 MLV=5.6
	LmV B	54.4	e 15 42 e 15 51 e 16 00
21.	eP1 A	18 23 36	Central Alaska 64.76°N 147.37°W
	eiP B	23 38.5	H = 18 13 02.9 h = 17 km MAG=5.6
	eP2 A	23 39	D = 63.8° Az = 14.7° (USCGS)
	e A	23 43	PV:6s 0.5 μ m PV2:2.0s 106nm
	ePP B	26 00	MPV=5.9 MPV2=5.7
	eS B	32 11	P1 is a small-amplitude precursor in the short-period records.
21.	eP B	18 35 17	Central Alaska 64.76°N 147.37°W
	eP A	35 20	H = 18 24 45.7 h = 17 km MAG=5.4
	ePP B	37 38	D = 63.8° Az = 14.7° (USCGS)
			PV(A):2.0s 106nm
			MPV(A)=5.7
21.	e(P) A	18 44 09	
	e A	44 20	

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Moxa

Day	Phase	h m s	Remarks	
21.	e(P)	A 18 52 26		
	i	A 52 33.3		
	e	A 52 38		
21.	eP	A 19 04 15.5	PV1:1.8s 15.3nm PV2:2.0s 39.8nm	
	e	A 04 20		
21.	+iPKHKP	A 19 29 24	<u>South of Fiji Islands</u> 23.48°S 179.95°E	
	+iPKP2	A 29 34.8	H = 19 10 31.1 h = 546 km MAG=5.0	
	epPKP	A 31 36	D = 151.4° Az = 344.4° (USCGS) PV1:1.3s 19.5nm PV2:1.1s 43.3nm AN USSR gives: 24.8°S 179.8°E H = 19 09 31 h = normal D = 152.6°	
21.	eP	A 20 23 32.5	<u>Near Coast of Northern Chile</u>	
	ePP	A 27 50	25.19°S 70.55°W	
	eSKS	C 34 12	H = 20 09 28.4 h = 23 km MAG=5.7 (USCGS)	
	eSP	C 36 52	D = 104.3°	
	eSS	C 42 48	LmH:19s 2.4 μm LmV:19s 3.6 μm	
	LmV	B 21 09.8	MLH=5.8 MLV=5.9	
	LmH	B 10	e 34 28	
21.	ePKP	A 22 24 31.5	<u>Fiji Islands Region</u> 17.82°S 178.66°W H = 22 05 54.0 h = 574 km MAG=4.6 D = 146.2° Az = 348.2° (USCGS)	
	22.	e	A 08 59 08	Probably explosion.
		eSg	A 59 28.5	
e		A 59 46		
22.	iSg	A 10 01 55.5	Probably explosion.	
22.	iP	A 11 01 46.0	<u>East Coast of Greece</u> 39.0°N 2074°E	
	ei	A 04 37	H = 10 58 36 (BCIS)	
	LmH	B 06.3	D = 13.3°	
	LmV	B (07)	LmH:13s 0.6 μm MLH=3.8	

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Day	Phase	h m s	Remarks
22.	-ePKP	A 11 09 40	<u>Samoa Islands</u> 15.83°S 172.68°W
	e	A 10 11	H = 10 50 05.3 h = normal MAG=4.5
	e	A 10 19	D = 145.1° Az = 355.2° (USCGS) PV:1.3s 19.5nm
22.	eP	A 11 19 03	<u>North of Aszension Is.</u> 1.50°S 15.74°W
	e	A 19 11.5	H = 11 09 20.9 h = normal MAG=4.8 (USCGS)
	e	A 19 27	D = 57.0°
22.	eP	A 12 23 08	<u>Turkey</u> 40.90°N 33.44°E H = 12 18 53.0 h = 13 km MAG=4.7 (USCGS) D = 18.0°
22.	e(Sg)	A 14 13 16	Probably explosion.
	e	A 13 18	
	e	A 13 20.5	
22.	e(pP)	A 15 48 49.5	Probably Andreanof Islands/Aleutian Is.
	e	A 49 11	(USCGS)
	e	A 49 22	
22.	ePP	A 19 28 43	<u>New Ireland Region</u> 1.33°S 149.83°E
	eSP	C 38 30	H = 19 08 33.5 h = 34 km MAG=5.0 (USCGS)
	eSS	C 45.0	D = 119.5°
	LmH	C 20 21.7	LmH:19s 0.3 μm LmV:18s 0.4 μm
LmV	B 22.4	MLH=4.9 MLV=5.1	
23.	ePKP	A 00 45 02.5	<u>Samoa Islands</u> 15.02°S 172.31°W
	e	A 45 24	H = 00 25 29.8 h = normal MAG=5.1
	e	A 46 00	D = 144.3° Az = 355.7° (USCGS)
	LmH	B 01 55.6	PV:2.2s 68.1nm
	LmV	B 56.8	LmH:18s 0.4 μm LmV:18s 0.6 μm MLH=5.2 MLV=5.4
23.	ePKP	A 01 01 45	<u>Samoa Islands</u> 14.91°S 172.37°W
	+i	A 01 46.5	H = 00 42 13.4 h = normal MAG=5.1
	epPKP	A 01 58.5	D = 144.2° Az = 355.7° (USCGS); h = 47 km
	LmV	B 13.0	PV2:1.6s 45.4nm
	LmH	C 14.8	LmH:16s 0.3 μm LmV:17.5s 0.5 μm MLH=5.1 MLV=5.3

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Moxa

Day	Phase	h m s	Remarks
23.	ePKIKP A	05 23 32	<u>Banda Sea</u> 5.81°S 130.46°E
	e(pPKIKP)A	23 59.5	H = 05 05 04.8 h = 85 km MAG=5.9
	e(sPKIKP)A	24 10	D = 112.5° Az = 322.9° (USCGS);
	ePP A	24 20	h = ca. 100 km
	LmH B	06 12	PV:1.1s 14.4nm e 25 15
23.	eP1 A	10 11 08	<u>Turkey</u> 40.80°N 33.61°E
	eiP2 A	11 10	H = 10 06 54.1 h = 14 km MAG=4.8
	eP B	11 12	D = 18.2° Az = 310.2° (USCGS)
	eS B	14 40	PV2:1.8s 56.1nm PV:7s 0.7/um
	eLg1 B	17 10	PH:7s 0.6/um
	e(Rg) B	17 58	LmH:13s 0.9/um LmV:15s 0.8/um
	LmV B	20.8	MLH=4.2 MLV=4.3
	LmH B	21	ei 11 20 e 11 38
23.	eP A	12 05 08	<u>Central Alaska</u> 64.82°N 147.45°W
	ePoP A	05 44.5	H = 11 54 33.5 h = 9 km MAG=4.6 D = 63.7° Az = 14.7° (USCGS)
23.	ePKP2 A	12 07 53	<u>Balleny Islands</u> 62.51°S 155.17°E
	e A	08 02	H = 11 47 28.9 h = normal MAG=5.3
	e A	08 16	D = 157.0° Az = 255.8° (USCGS)
	e C	31.5	LmH:18s 0.6/um LmV:18s 1.0/um
	LmH B	13 26	MLH=5.4 MLV=5.7
	LmV B	26	
23.	iPg A	14 09 11.5	<u>Explosion/GDR</u> 51°22.3'N 12°53.5'E
	iSg A	09 27.5	D = 1.0° Yield: 3.4 t
23.	eiPn A	14 45 30	<u>Explosion/Adelebsen, GFR</u>
	eiPg A	45 32	51°36.48'N 9°44.80'E
	eSg A	45 49.5	H = 14 45 00.8 Yield: 5 t D = 1.6°
23.	-ePKHKP A	14 57 18	<u>Fiji Islands</u> 21.35°S 179.35°W
	ePKP2 A	57 25.5	H = 14 38 35.7 h = 605 km MAG=5.1
	e A	57 30	D = 149.5° Az = 346.2° (USCGS)
	e A	57 39.5	PV:1.2s 25.5nm AN USSR gives: H = 14 37 37 h = normal

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Day	Phase	h m s	Remarks
23.	LmH B	17 16.8	Probably Honshu/Japan (USCGS)
	LmV B	21.5	LmH:18.5s 0.5/um LmV:15s 0.2/um (MLH=4.9 MLV=4.7)
23.	ePKP A	21 49 41	<u>New Hebrides Islands</u> 19.24°S 167.68°E
	e(pPKP) A	49 58.5	H = 21 30 11.5 h = 37 km MAG=5.3
	ei A	50 23	D = 143.4° Az = 334.4° (USCGS);
	e A	51 05	(h = 62 km)
	ePP A	52 55	PV:1.8s 40.8nm PPV:2.0s 31nm
	LmH C	23 05	MPPV=5.2
24.	LmV C	05	
24.	i(Sg) A	11 45 03.5	Probably explosion.
	e A	45 19	
24.	+iPKHKP A	13 47 19	<u>Fiji Islands Region</u> 21.35°S 179.28°W
	ePKP2 A	47 27	H = 13 28 35.9 h = 592 km MAG=4.7 D = 149.5° Az = 346.3° (USCGS) PV:1.0s 19.0nm
24.	eP A	21 14 24	<u>South of Mariana Islands</u> 12.49°N 141.59°E
	ePP A	18 44	H = 21 00 23.9 h = 18 km MAG=5.5
	ePS C	27 48	D = 103.5° Az = 329.9° (USCGS)
	ePPS C	28 40	PPV:2.0s 53.0nm
	eSS C	33 28	LmH:20s 2.3/um LmV:20s 2.9/um
	LmH B	22 04.8	MPPV=5.7 MLH=5.7 MLV=5.8
	LmV B	04.8	e 18 53.5
24.	eP A	21 16(58)	<u>Samar/Philippine Islands</u> 11.43°N 125.67°E
	epP A	17 14	H = 21 03 35.7 h = 53 km MAG=5.0 D = 95.9° Az = 324.2° (USCGS) pPV:1.8s 15.3nm
24.	eP A	21 36 13	<u>Iceland</u> 61.85°N 27.88°W
	LmV B	47	H = 21 30 59.0 h = normal MAG=4.5 D = 24.2° Az = 99.4° (USCGS)

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Day	Phase	h m s	Remarks
25.	iP	A 01 06 23.5	<u>Kurile Islands</u> 46.68°N 152.55°E H = 00 54 30.7 h = normal MAG=4.7 D = 77.4° Az = 335.7° (USCGS) PV:0.8s 9.4nm MPV=5.0
25.	e(pP)	A 20 04 49.5	Probably Fox Islands/Aleutian Is. (USCGS) P must be about 15 s earlier.
25.	eP	A 21 40 13	<u>Off East Coast of Honshu/Japan</u>
	epP	A 40 25	33.44°N 141.43°E
	e	A 40 36	H = 21 27 41.8 h = 59 km MAG=4.6 D = 85.3° Az = 330.6° (USCGS); h = 45 km
25.	eiP	A 23 32 02	<u>South of Mariana Islands</u> 12.42°N 141.77°E
	epP	A 32 12	H = 23 18 04.3 h = 42 km MAG=5.6
	e	A 36 17	D = 103.7° Az = 329.9° (USCGS); h = 43 km
	ePP	A 36 21	LmH:20s 3.2/um LmV:20s 4.3/um
	epPP	A 36 31	MLH=5.9 MLV=6.0
	ePS	C 45 20	
	ePPS	C 46 20	
	eISS	C 51 05	
	LmV	B 00 22.3	
	LmH	B 22.4	
26.	eP	A 02 35 41	<u>Off East Coast of Jalisco/Mexico</u>
	eSKS	C 46 14	18.40°N 105.25°W
	eS	C 46(40)	H = 02 22 34.8 h = 45 km MAG=5.0 (USCGS)
	ePS	C 47 54	D = 91.8°
	eSS	C 52 48	LmH:19s 1.5/um LmV:19s 1.4/um
	LmH	B 03 17.0	MLH=5.5 MLV=5.4
	LmV	B 17.0	
26.	iP	A 03 49 45.5	<u>Fox Islands/Aleutian Is.</u> 53.03°N 166.57°W
	epP	A 49 55.5	H = 03 37 55.7 h = normal MAG=4.3 (USCGS) D = 76.0°

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Day	Phase	h m s	Remarks
26.	eiP	A 05 05 29	<u>Kurile Islands</u> 45.03°N 147.29°E H = 04 53 43.5 h = 88 km MAG=4.2 D = 77.2° Az = 332.9° (USCGS) PV:0.9s 9.4nm MPV=4.9
26.	e(P)	A 09 16 00	
26.	+iPKP	A 09 28 30	<u>Fiji Islands Region</u> 17.96°S 178.31°W
	e	A 29 07	H = 09 09 42.4 h = 477 km MAG=4.3 D = 146.4° Az = 348.5° (USCGS) PV:1.4s 15.3nm
26.	e(Sg)	A 11 38 32.5	Explosion?
26.	ePg	A 12 49 32.5	Explosion
	e(Sg)	A 49 38.5	
26.	LmH	C 15 08.6	<u>East New Guinea Region</u> 5.78°S 147.66°E H = 14 04 23.9 h = 33 km MAG=5.3 (USCGS) D = 122.2° LmH:24s 0.2/um MLH=4.7
26.	e(P)	A 15 48 19	
26.	e(P)	A 17 49 57	Probably to Northern Chile (USCGS)
26.	LmH	C 23 58	<u>South of Mariana Islands</u> 12.49°N 141.76°E
	LmV	C 58.5	H = 22 54 43.1 h = normal MAG=4.6 (USCGS) D = 103.7° LmV:20s 0.2/um MLV=4.7
27.	i	A 05 11 20.2	
	ei	A 11 33.5	

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Moxa

Day	Phase	h m s	Remarks
27.	eIP A	20 44 56	<u>Andreanof Is./Aleutian Is.</u>
	LmH C	21 22.7	51.33°N 179.99°W H = 20 32 59.3 h = 26 km MAG=5.1 (USCGS) D = 77.8° LmH:20s 0.2/um MLH=4.5
27.	eSS C	22 14 28	<u>Southeast Indian Rise</u> 46.39°S 96.01°E
	eSSSS C	22 40	H = 21 37 48.1 h = normal MAG=5.4 (USCGS)
	LQ C	28	D = 120.8°
	LmH B	57.3	LmH:19s 0.7/um LmV:20s 0.95/um
	LmV B	57.3	MLH=5.3 MLV=5.4
27.	eP A	23 19 12.5	<u>Taiwan</u> 23.61°N 121.54°E
	epP A	19 24.5	H = 23 06 47.0 h = 45 km MAG=4.8
	e A	19 33	D = 83.8° Az = 323.0° (USCGS); h = 43 km
	LmH C	24 01	PV:1.3s 27.9nm
	LmV C	01	MPV=5.2
28.	+iP A	01 21 57.9	<u>Kurile Islands</u> 46.04°N 151.47°E
	e A	22 18	H = 01 10 03.9 h = 33 km MAG=5.4
	ei A	22 26	D = 77.6° Az = 335.1° (USCGS)
	e A	22 37	PV:1.4s 52.3nm
	LmH B	59.5	LmH:20s 0.35/um LmV:20s 0.5/um
	LmV B	59.5	MPV=5.5 MLH=4.7 MLV=4.9
28.	ePKP A	05 53 34.5	<u>Samoa</u> 14.39°S 172.58°W
	epPKP A	53 47.5	H = 05 34 06.4 h = 40 km MAG=4.8
	LmH B	07 01.8	D = 143.7° Az = 355.5° (USCGS); h = 46 km
	LmV B	02.0	PV1:2.3s 70.0nm PV2:2.0s 37.0nm LmH:18s 0.4/um LmV:20s 0.4/um MLH=5.2 MLV=5.2
28.	ePKIKP A	14 54 02	<u>Off W. Coast of S. Island N. Z.</u>
	ePKP2 A	54 52	47.00°S 165.81°E
	eIPPKP2 A	55 00.5	H = 14 34 04.5 h = 37 km MAG=5.6
	ePP B	58.7	D = 162.7° Az = 291.6° (USCGS); h = 30 km
	ePPP B	15 02.5	PV1:1.6s 26.3nm PV2:1.8s 28.2nm
	eSKKKS B	06 24	PV3:2.0s 66.7nm

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Moxa

Day	Phase	h m s	Remarks
cont.			
28.	eSKSP C	15 09(00)	LmH:22s 0.9/um LmV:20s 0.9/um
	eScSPKP C	09 38	MLH=5.5 MLV=5.6
	ePPS C	12 08	e 54 31 e 56 00 e 58 54
	eSS C	19.0	
	ePSS C	20.0	
	LmH B	16 14.3	
LmV B	18.2		
28.	ei A	17 57 14	Probably explosion.
	e(Sg) A	57 25	
29.	+iP A	03 04 46.0	<u>Kazakh SSR</u> 50.0°N 78.0°E
	ePP A	06 22	H = 02 57 00 (BCIS) D = 41.1° PV:0.7s 71.1nm PH:0.7s 35.8nm MPV=5.7 MPH=5.7 Probably underground explosion.
29.	eP A	03 05 42	<u>South of Panama</u> 5.16°N 82.65°W
	eSKS C	16.2	H = 02 52 50.1 h = normal MAG=4.8 (USCGS)
	ePS C	17.5	D = 88.7°
	eSS C	22.4	LmH:23s 0.7/um LmV:22s 0.7/um
	LQ C	28.5	MLH=5.0 MLV=5.1
	LmH B	38	
LmV B	38		
29.	eP A	08 28(02)	<u>Western Caucasus</u> 41.59°N 43.98°E
	e A	28 44	H = 08 22 47.9 h = 25 km MAG=4.9
	eS C	32 17	D = 24.0° Az = 303.2° (USCGS)
	eS B	32 28	PV:1.8s 31.3nm SH(B):12s 0.7/um
	LmH B	39.2	LmH:12s 0.2/um LmV:12s 0.4/um
	LmV B	39.3	MPV=4.6 MSH(B)=5.0 MLH=3.9 MLV=4.3
29.	iPg A	09 38 40.5	Explosion
	iSg A	38 56	D = ca. 1.1°

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Moxa

Day	Phase	h m s	Remarks
29.	ePKP	A 09 45 23	<u>Samoa Islands</u> 15.78°S 172.42°W
	e	A 45 31	H = 09 25 47.4 h = 14 km MAG=4.8
	e	A 45 38.5	D = 145.1° Az = 355.5° (USCGS)
	e	A 45 52.5	
29.	ePKP	A 10 56 24	<u>Tonga Islands</u> 21.23°S 174.38°W
			H = 10 36 28.7 h = normal MAG=4.4 (USCGS) D = 150.2°
29.	e(Sg)	A 12 51 21	
	e	A 51 25	
29.	ei	A 13 03 09.5	
29.	iPKIKP	A 16 54 38.8	<u>Banda Sea</u> 7.23°S 128.60°E
	ePP	A 55 32	H = 16 36 15.7 h = 121 km MAG=5.4 (USCGS)
	ePS	C 17 04 52	D = 112.5°
	e(PPS)	C 06.0	PV:1.8s 25.0nm PPV:2.6s 250nm
	e(sPPS)	C 06(50)	MPPV=6.1
	eSS	C 11(10)	e 55 22 e 55 54
	LmH	B 46	
	LmV	B 46	
30.	eP	A 00 19 00	<u>Jan Mayen Island</u> 70.43°N 15.27°W
	e	A 19 03	H = 00 13 52.5 h = normal MAG=4.6
	e	A 19 09	D = 23.5° Az = 133.7° (USCGS)
	LmH	B 30.6	PV1:2.0s 44.5nm PV2:1.6s 47.4nm
	LmV	B 31.6	PV3:1.3s 32.6nm LmH:12s 0.3 μ m LmV:13s 0.5 μ m MPV1=4.7 MPV2=4.8 MLH=3.9 MLV=4.4
30.	iPg	A 09 30 25	<u>Explosion/CSSR</u> 49°53.5'N 13°43'E
	i(Sg)	A 30 45	Yield: 13.4 t (PRUHONICE)
	e	A 30 57	D = 1.5°
30.	i	A 10 31 59.5	Explosion? V:1.1s 40.0nm
30.	e	A 11 21 43	

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Moxa

Day	Phase	h m s	Remarks
30.	LmH	B 11 46.2	
30.	eiSg	A 14 06 38.5	<u>Explosion/Eschenlohe, GFR</u>
30.	LmH	C 20 14.0	<u>Rat Islands/Aleutian Is. (USCGS)</u>
	LmV	C 14	

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Moxa

Day	Phase	h m s	Remarks
1.	ePx	A 02 57 39	<u>Yugoslavia</u> 44.15°N 19.14°E
	e	A 58 36	H = 02 55 33.3 h = normal MAG=4.5
	eSn	A 59 06.5	D = 8.3° Az = 324.5° (USCGS)
	e(Sg)	A 03 00 05	PxV:1.0s 13.1nm
	e(Rg)	A 00 31	LmH:11s 0.5 μ m LmV:10.5s 0.7 μ m
	LmH	B 00.5	MLH=3.5
	LmV	B 01.2	e 57 53.5 e 58 09.5 Pn must be about 5 s earlier than Px.
	1.	-iP	A 03 29 15.9
ei		A 29 19	H = 03 24 42.1 h = 67 km MAG=4.5 D = 20.4° Az = 321.7° (USCGS) PV:1.0s 17.4nm MPV=4.2
1.	LmH	C 04 52	<u>Traces</u>
	LmV	C 53	
1.	+eiP	A 07 41 50.8	<u>Southern Sumatra</u> 0.82°S 98.67°E
	epP	A 41 58.5	H = 07 28 57.6 h = 26 km MAG=5.5 (USCGS)
	eX	A 42 09	D = 88.7° h = 28 km
	e	A 42 17	PV:1.4s 38.0nm pPV:1.3s 32.6nm
	e	A 42 25.5	XV:2.4s 91.0nm
	eiS	B 52 37	LmH:21s 0.9 μ m LmV:21s 1.0 μ m
	LmH	B 08 25.5	MPV=5.4 MLH=5.2 MLV=5.3
	LmV	B 27.5	eX is the greatest onset in our short-period broad-band registration.
1.	i(Sb)	A 08 38 32	<u>Swabia/GFR</u> 48.3°N 8.9°E
	i(Sg)	A 38 40	H = 08 37 02 (BCIS) D = 3.0°
1.	i(Sg)	A 11 07 53.5	
1.	e	A 12 03(00)	
	e	A 03 15	
1.	i	A 15 51 41.5	

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Day	Phase	h m s	Remarks
1.	eiP	A 21 33 54.7	<u>Alaska Peninsula</u> 54.02°N 160.97°W
	eiP	A 34 06.2	H = 21 22 10.0 h = 19 km MAG=4.5 (USCGS)
	e	A 34 14	D = 75.4° h = 44 km PV:1.3s 28.0nm pPV:1.5s 30.0nm MPV=5.2
	-iP1	A 23 21 46.7	<u>South of Alaska</u> 54.36°N 158.05°W
1.	-iP	B 21 47.2	H = 23 10 07.2 h = normal MAG=6.2 (USCGS)
	iP2	A 21 48.0	D = 74.6° h = 42 km
	PL	B 21 48	PV1:1.2s 86.8nm PV2:1.7s 482nm
	ipP	A 21 57.7	pPV:1.7s 580nm PLV:15s 2.3 μ m
	i(PP)	B 24 48	(PP)V:10s 1.5 μ m SH:15s 13.9 μ m
	i(Pa)	B 26 48	LmH:19s 15 μ m LmV:18s 19.1 μ m
	iIS	B 31 26	MPV1=5.8 MPV2=6.4 MSH=6.9 MLH=6.4
	iPS	C 31 58	MLV=6.5
	iSS	C 35 52	Multiple P in the short-period records.
	iLQ	C 41 16	The clear PL-waves (T = 15 s) in the long-period records are superimposed by relatively short-period P-waves (T ca. 2 - 3 s).
	ePKPPKP	A 49 06	(PP) is a very sharp onset in the long-period broad-band registrations, but about 11 s later than expected for PP. SS is small compared to the very strong S-onset.
	epPKPPKP	A 49 16	
	e	A 49 42	
LmH	B 58.0		
LmV	B 00 00.7		
2.	eiPn	A 00 33 40	<u>Yugoslavia</u> 43.9°N 19.2°E
	eiPx	A 33 50	H = 00 31 37 (BCIS) MAG=4.2 (BEOGRAD)
	eSn	A 35 08	D = 8.5°
	i(Sg)	A 36 11	i 35 30.5
2.	i(Lg2)	A 36 32	
	ePn	A 01 16 08.2	<u>Yugoslavia</u> 43.70°N 19.20°E
	ePx	A 16 15.2	H = 01 14 03.3 h = normal MAG=4.2
	eiSn	A 17 42	D = 8.7° Az = 326.1° (USCGS)
	eiSg	A 18 43.5	e 17 08
eiLg2	A 18 52		
2.	ei	A 01 21 03	<u>Yugoslavia</u> 43.9°N 19.2°E
	i	A 21 18	H = 01 17 13 (BCIS) MAG=3.9 (BEOGRAD)
	LmH	A 22 32	D = 8.5°

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Day	Phase	h m s	Remarks
2.	eP	A 02 32 58.5	<u>South of Alaska</u> 54.5°N 158.0°W
	e	A 33 33	H = 02 36 19.8 h = 33 km MAG=4.7 (USCGS) D = 74.8°
2.	eP	A 03 13 12	<u>Japan</u> 45.7°N 142.9°E
			H = 03 02 03.0 h = 334 km MAG=4.5 (USCGS) D = 75.1°
2.	ePn	A 07 12 08.5	<u>Yugoslavia</u> 43.9°N 19.2°E
	e	A 12 18	H = 07 10 06 (BCIS) MAG=3.9 (BEOGRAD)
	e	A 14 10	D = 8.5°
	eSg	A 14 46	e 12 26 e 12 39
2.	eiP	B 07 15 47.5	<u>Nicobar Islands Region</u> 8.72°N 93.78°E
	eiP1	A 15 50	H = 07 03 52.9 h = normal MAG=5.7 (USCGS)
	eiP2	A 15 53.0	D = 78.3°
	iPP	A 18 52.5	PV:10s 1.1/um PV2:1.6s 94.7nm
	iPP	B 18 54	PPV(B):9.5s 1.1/um SH:13s 1.2/um
	eS	B 25 42	LmH:17s 4.7/um LmV:17.5s 9.7/um
	ePPS	C 26 48	MPV=5.9 MPV2=5.7 MPPV=6.0 MSH=5.9
	eSS	C 31.1	MLH=5.9 MLV=6.2
	LmH	B 56.7	AN USSR gives: Andaman Sea 9.0°N 93.5°E
	LmV	B 56.7	H = 07 04 08 h = 172 km
			Multiple P in our short-period records, the first onset smaller than the second one.
2.	iP	A 07 50 52.2	<u>Off East Coast of Honshu</u> 33.0°N 141.6°E
	epP	A 51 05.5	H = 07 38 15.0 h = 39 km MAG=5.0 (USCGS) D = 85.7° h = 50 km pPV:1.8s 43.8nm
2.	eP	A 08 41 26	<u>Eastern Kashmir</u> 33.18°N 75.64°E
			H = 08 32 38.5 h = 33 km MAG=4.8 (USCGS) D = 49.2°
2.	LmH	C 14 21	<u>Mariana Islands</u> (USCGS)

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Day	Phase	h m s	Remarks
2.	iP	A 14 21 37.2	<u>Nicobar Islands</u> 8.5°N 93.8°E
	eipP	A 21 46	H = 14 09 37.6 h = 36 km MAG=5.2 (USCGS) D = 78.5° h = 33 km
2.	eP	A 14 32 21.5	
	e	A 32 41	
2.	eP	A 16 28 28	<u>South of Honshu/Japan</u> 32.93°N 141.70°E
	e	A 28 43	H = 16 15 48.4 h = 19 km MAG=5.0 (USCGS)
	e	A 29 02	D = 85.8°
	e	A 29 30	LmH:15s 0.5/um LmV:14s 0.7/um
	e	A 30 19	MLH=5.1 MLV=5.2
	LmH	B 17 15.3	
	LmV	B 15.3	
2.	+iP	A 20 46 37.2	<u>Kyushu/Japan</u> 31.20°N 130.13°E
	i	A 47 07.5	H = 20 34 36.2 h = 181 km MAG=4.9 (USCGS) D = 82.1°
			PV:1.2s 40.8nm
			MPV=5.0
			AN USSR gives: Ryukyu Islands
			30.3°N 130.4°E
			H = 20 34 15 h = normal
			D = 83.0°
2.	eiP	A 22 13 46.5	<u>Volcano Islands</u> 23.0°N 142.7°E
	LmH	B 59.9	H = 22 00 38.1 h = 40 km MAG=4.7 (USCGS)
	LmV	B 23 00.2	D = 94.9°
			LmH:20s 0.2/um LmV:20s 0.4/um
			MLH=4.6 MLV=4.9
3.	eiPn	A 02 55 47	<u>Yugoslavia</u> 44.16°N 19.24°E
	eiPx	A 55 54	H = 02 53 47.9 h = 60 km MAG=4.3
	eiSn	A 57 16	D = 8.3° Az = 324.2° (USCGS)
	e	B 58 16	PnV:0.9s 20.7nm PxV:1.3s 53.5nm
	i(Ig2)	B 58 31.5	LmH:12.5s 3.1/um LmV:10s 2.6/um
	LmH	B 58.7	MLH=4.2
	LmV	B 59.5	i 56 11.5 i 57 33.5 i 57 45.5

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Day	Phase	h m s	Remarks
3.	eIP	A 03 10 30.5	<u>South of Alaska</u> 54.7°N 157.7°W H = 02 58 52.9 h = normal MAG=4.2 (USCGS) D = 74.7°
3.	LmH	C 04 38.2	<u>Mariana Islands</u> (USCGS)
3.	eP	A 05 21 27	<u>Kurile Islands</u> 43.6°N 147.0°E H = 05 09 28.1 h = normal MAG=4.2 (USCGS) D = 78.3°
3.	iP	A 09 50 24.0	<u>South of Alaska</u> 54.6°N 157.7°W H = 06 54 43.4 h = normal MAG=4.6 (USCGS) D = 74.7°
3.	-eP	A 21 59 08.5	<u>Ascension Island Region</u> 7.46°S 13.45°W H = 21 48 50.9 h = normal MAG=4.8 D = 61.8° Az = 17.8° (USCGS); h = 25 km
	ipP	A 59 15.0	
	e	A 59 21.5	PV:1.2s 35.7nm pPV:1.5s 57.1nm LmH:21s 0.3 μ m MPV=5.4 MLH=4.5
	LmH	C 22 25.5	
3.	ePg	A 22 54 42	<u>Apennin Toscan/Italy</u> 44.0°N 12.0°E
	eSg	A 56 13.5	H = 22 52 27 (BCIS) D = 6.7°
4.	eSn	A 02 40 35.5	Probably Italy-Austria Border Region
	i	A 40 50.5	D = ca. 4.2°
	iSg	A 41 04.2	TRIESTE gives: D = ca. 110 km,
	eL	A 41 07	VIENNA gives: (D = 370 km) SgV:0.9s 25.7nm LV:1.4s 52.2nm
4.	e(P)	A 14 34 50.5	
4.	eIPKIKP	A 14 35 32	<u>Near Coast of Central Chile</u> 38.1°S 73.4°W
	e(PP)	A 36 29	H = 14 16 51.6 h = 28 km MAG=5.4 (USCGS)
	ePPP	B 38 57	D = 115.4°
	eSKS	C 42(16)	SH:23s 0.5 μ m PSH:26s 1.5 μ m
	eSKKS	C 43(30)	SSH:32s 0.5 μ m
	eS	C 44 24	LmH:20s 2.6 μ m LmV:20s 3.7 μ m

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Day	Phase	h m s	Remarks
cont.			
4.	eIPS	C 14 46 20	MLH=5.8 MLV=6.0
	eSPP	B 47 24	S is the diffracted S around the core.
	eISPP	C 47 32	
	eSS	C 52 28	
	LmH	B 15 24.5	
	LmV	B 24.7	
4.	eSg	A 12 46 05	Explosion? SgV:0.8s 21.2nm
4.	eISg	A 15 35 59	
	i	A 36 08.8	
4.	+iP	A 23 53 50.6	<u>Hokkaido/Japan Region</u> 43.24°N 142.50°E
	+iP	B 53 51	H = 23 42 13.7 h = 160 km MAG=5.6
	+iPoP	A 54 01.0	D = 77.2° Az = 330.4° (USCGS); h = 162 km
	eipP	B 54 30	PV(A):0.9s 94.3nm PV(B):7.5s 1.0 μ m
	esP	B 54 46	SH:9s 0.9 μ m
	ePP	B 56 47	LmH:15.5s 1.3 μ m LmV:14s 1.4 μ m
	eS	B 00 04(21)	MPV(A)=5.5 MPV(B)=5.6 MSH=6.0
	eIS	B 04 27	
	eScS	C 04 48	
	esS	C 05 32	
	eLR	C 18.5	
	LmH	B 27.0	
	LmV	B 34.4	
5.	eP	A 00 56 54	<u>Southern Greece</u> 36.76°N 21.32°E
	e	A 57 03.5	H = 00 53 14.2 h = 22 km MAG=4.8
	e	A 57 09	D = 15.5° Az = 336.4° (USCGS)
	e	A 57 14.5	PV1:1.0s 23.7nm PV2:1.2s 33.2nm
	eS	B 01 00(00)	PV3:1.2s 33.2nm PV4:1.4s 33.6nm
	e	C 00 32	LmH:10.5s 2.6 μ m LmV:15.5s 3.5 μ m
	eLi	B 01 56	MLH=4.7 MLV=4.8
	eLg1	B 02 14	The first onset of P is followed by three
	LmH	B 04.2	clearly separated onsets of approximately
	LmV	B 04.2	constant amplitude.

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Day	Phase	h m s	Remarks
5.	eP	A 04 14 45.5	<u>South of Alaska</u> 54.47°N 157.88°W H = 04 03 06.8 h = 33 km MAG=4.8 D = 74.9° Az = 6.9° (USCGS); h = 33 km PV:1.2s 17.8nm MPV=5.1
	epP	A 14 54	
	e	A 15 10	
5.	ei(Pg)	A 06 56 14.6	Probably explosion.
	e(Sg)	A 56 31	
5.	eP	A 09 13 38.7	<u>Ryukyu Islands</u> 25.64°N 125.97°E H = 09 01 05.3 h = normal MAG=4.7 (USCGS) D = 84.5°
5.	e(Sg)	A 11 07 44	(Sg)V:0.8s 21.2nm
5.	iPg	A 11 24 43	<u>Explosion/GDR</u> D = ca. 0.6°
	eiSg	A 24 51	
	LmH	A 25 05	
	LmV	A 25 05	
5.	eiPg	A 12 00 02	<u>Explosion/GDR</u> D = ca. 1.1°
	iSg	A 00 16.5	
	LmH	A 00 32	
	LmV	A 00 32	
5.	e(Pg)	A 12 05 35.7	Explosion? (Sg)V:1.0s 28.4nm
	ei(Sg)	A 05 51	
	e	A 05 58	
	e	A 06 04	
5.	iSg	A 13 03 39.7	<u>Explosion/GDR</u>
5.	iSg	A 13 03 58.5	<u>Explosion/GDR</u>
	LmH	A 03 00	
5.	eiSg	A 13 04 31.5	<u>Explosion/GDR</u>
5.	e(Sg)	A 15 07 15	

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Day	Phase	h m s	Remarks
5.	eP	A 16 53 14	<u>Southern Greece</u> 36.93°N 21.33°E H = 16 49 35.9 h = 41 km MAG=4.3 D = 15.4° Az = 336.1° (USCGS) LmH:11s 0.6 μ m LmV:11s 0.5 μ m MLH=4.0 MLV=4.1
	e	A 53 23.5	
	LmH	B 17 00.5	
	LmV	B 00.5	
5.	i(Sg)	A 18 05 08.7	Explosion?
	e	A 05 10.5	
5.	e	A 18 42 42.5	
5.	LmH	C 22 07	<u>Luzon/Philippine Islands</u> (USCGS)
	LmV	C 07	
6.	LmH	C 01 52.5	<u>South Pacific Cordillera</u> (USCGS)
	LmV	B 58.2	
6.	-iP	A 05 16 55.7	<u>Central Alaska</u> 62.38°N 147.37°W H = 05 06 13.4 h = 59 km MAG=5.1 D = 66.1° Az = 14.5° (USCGS); h = 59 km PV:0.8s 30.7nm MPV=5.5
	ipP	A 17 10.7	
	e	A 17 20	
	e	A 17 26.5	
6.	eP	A 08 25 29.5	<u>Southern Greece</u> 36.68°N 21.42°E H = 08 21 50.3 h = 35 km MAG=4.5 (USCGS) D = 15.7° LmH:11s 0.6 μ m LmV:10s 0.9 μ m MLH=4.0 MLV=4.4 AN USSR gives: 35.5°N 20.8°E H = 08 21 39 h = normal D = 16.6°
	e	A 25 43	
	i	A 25 08.2	
	LmH	B 32.7	
	LmV	B 32.7	
6.	iSg	A 09 05 37	Explosion SgV:0.5s 53.0nm
6.	iSg	A 10 47 48.6	Probably explosion. SgV:1.1s 48.0nm

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Day	Phase	h m s	Remarks
6.	iSg A	11 08 27.8	Explosion SgV:0.8s 47.0nm
6.	e(Pg) A	11 54 38.6	Explosion?
	eSg A	54 54.5	
6.	eSg A	12 04 49.6	Probably Upper Silesia/Poland
6.	+iP1 A	13 54 17.0	<u>Fox Islands/Aleutian Is.</u> 52.59°N 168.17°W
	+iP2 A	54 18.0	H = 13 42 22.5 h = 14 km MAG=5.9
	+iP B	54 18.5	D = 77.1° Az = 0.1°
	+iP C	54 20	PV2:1.7s 395nm PV(B):8s 2.3/um
	eS B	14 04 06	SH:14s 1.9/um
	eSS C	09 08	LmH:17s 4.8/um LmV:15.5s 5.2/um
	eSSS C	12.4	MPV2=6.3 MPV(B)=6.4 MSH=6.0 MLH=5.9
	eSa C	13 40	MLV=6.0
	eLR C	19.4	ei 54 30 ei 55 00 e 04 17 e 04 21
	LmV B	39.5	e 13 50 e 14(36) e 16(42)
	LmH B	40.0	The first onset of P in the short-period records is much smaller than the second one.
6.	eiP A	13 58 46	<u>Fox Islands/Aleutian Is.</u> 52.6°N 168.1°W
	e A	59 03.5	H = 13 46 53.1 h = 28 km MAG=4.9 (USCGS) D = 77.1°
6.	eP A	16 26 15	<u>Fox Islands/Aleutian Is.</u> 52.82°N 168.08°W H = 16 14 24.7 h = normal MAG=4.1 D = 76.9° Az = 0.2° (USCGS)
6.	eP A	18 42 53	<u>Leeward Islands</u> 18.88°N 61.92°W
	eS B	51 35	H = 18 32 15.1 h = 57 km MAG=5.1
	LmH B	19 07	D = 65.2° Az = 42.3° (USCGS)
	LmV B	07.5	LmH:20s 0.8/um LmV:18s 1.3/um MLH=4.9 MLV=5.2 AN USSR gives: 20.5°N 62.4°W H = 18 32 19 h = normal MAG=5 1/4 D = 64.3°

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Day	Phase	h m s	Remarks
6.	eP A	19 07 22.5	<u>Eastern Gulf of Aden</u> 13.40°N 50.77°E
	e A	07 28	H = 18 58 39.7 h = 44 km MAG=4.9
	eS C	14 20	D = 48.8° Az = 327.7°
	e C	18 16	
6.	eiP A	19 29 47.5	<u>Central Mid-Atlantic Ridge</u> 8.09°N 38.51°W
	iPcP A	30 35.5	H = 19 19 48.4 h = normal MAG=4.9
	eS B	37 50	D = 59.2° Az = 34.7° (USCGS)
	iS C	38 00	PV:1.2s 38.3nm SH(B):(16s) 1.1/um
	eScS C	38 36	LmH:18s 2.9/um LmV:19s 4.3/um
	eiLQ C	44 16	MPV=5.4 MSH=5.6 MLH=5.3 MLV=5.5
	iLR C	47 00	e 29 50.5 e 30 21 e 30 52.5
	LmH B	54.5	
	LmV B	54.5	
6.	eiP A	23 27 57.5	<u>Kyushy/Japan</u> 32.5°N 130.9°E
	e A	28 24	H = 23 15 57.2 h = 159 km MAG=4.8 (USCGS) D = 81.3° AN USSR gives: 31.3°N 131.9°E H = 23 15 34 h = normal D = 82.8°
7.	eP A	01 18 43	<u>Eastern Gulf of Aden</u> 13.46°N 50.77°E
	e A	18 49	H = 01 09 59.0 h = 32 km MAG=4.8
	LmH C	44.5	D = 48.8° Az = 327.1° (USCGS)
7.	e(P) A	03 13 05	
7.	ePKIKP A	10 00 51.5	<u>Fiji Islands Region</u> 20.31°S 177.68°W
	-iPKHKP A	00 56	H = 09 42 08.0 h = 540 km MAG=4.6
	iPKP2 A	01 01.5	D = 148.8° Az = 348.5° (USCGS) PV2:1.0s 79.0nm
7.	eSg A	10 09 08.4	Near earthquake?
7.	e(Sg) A	10 59 59	Explosion
7.	e(Sg) A	11 00 10	Explosion

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Day	Phase	h m s	Remarks
7.	LmH C	12 21	
7.	iPg A	12 45 13.0	Explosion
	e A	45 25.4	D = ca. 1.1°
	iSg A	45 27.7	
7.	eSg A	12 46 45.5	Explosion
7.	eiPg A	12 56 28	Explosion/GDR
	iSg A	56 38.5	D = ca. 0.8°
7.	eSg A	13 44 29	Explosion
	e A	44 32	
7.	iP A	23 06 57.2	<u>India-China Border Region</u> 27.82°N 92.23°E H = 22 56 30.8 h = normal MAG=4.9 D = 63.3° Az = 315.3° (USCGS)
8.	LmH B	00 21.5	<u>Tibet</u> 35.5°N 87.8°E
	LmV B	25.3	H = 23 49 23.6 h = normal MAG=4.4 (USCGS) D = 55.2° LmH:17s 1.2/um LmV:14s 0.3/um MLH=5.0 MLV=4.6
8.	eP A	00 54 29	<u>Near East Coast of Honshu/Japan</u> 38.24°N 141.69°E H = 00 42 18.1 h = 68 km MAG=4.2 (USCGS) D = 81.2°
8.	ePKHKP A	01 18 04	<u>New Hebrides Islands</u> 15.36°S 167.50°E
	iPKIKP A	18 08.0	H = 00 58 54.7 h = 137 km MAG=5.2
	eSKP A	21 32	D = 139.8° Az = 336.2° (USCGS) PV2:1.5s 50.3nm SKPV:2.0s 73nm PKHKP is a small-amplitude precursor.
8.	ePKIKP A	06 42 24	<u>New Hebrides Islands</u> 16.34°S 166.76°E
	ePP A	45 24	H = 06 22 52.8 h = 9 km MAG=5.0
	LmH C	07 43.4	D = 140.4° Az = 335.2° (USCGS)
	LmV B	47.3	LmH:20.5s 0.6/um LmV:22s 0.6/um MLH=5.3 MLV=5.3

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Day	Phase	h m s	Remarks
8.	iPg A	08 40 20.4	Explosion
	iSg A	40 37.7	D = ca. 1.3°
8.	e(Sg) A	09 56 56	Near earthquake
	e A	57 17.5	TRIESTE gives: D = 250 km
8.	e(Sg) A	10 50 54.4	
8.	e(Sg) A	11 37 28	
8.	-iPKHKP A	13 32 17.0	<u>Fiji Islands Region</u> 19.95°S 178.07°W
	ePKP2 A	32 22	H = 13 13 29.1 h = 520 km MAG=4.3 D = 148.4° Az = 348.2° (USCGS) PV:0.4s 20.0nm
8.	epP A	19 30 57.5	<u>Off East Coast of Honshu</u> 37.7°N 143.7°E
	LmH C	20 06	H = 19 18 22.3 h = 66 km MAG=4.3 (USCGS) D = 82.3°
8.	e(P) A	22 07 21	Probably Crete (UPP)
8.	LmH C	23 55	<u>Sinkiang Prov./China</u> 39.9°N 78.2°E H = 23 24 15 h = normal MAG=ca.4 (AN USSR)
8.	eP A	03 20 48	<u>Hokkaido/Japan Region</u> 43.95°N 144.71°E
	LmH B	54.3	H = 03 09 03.2 h = 100 km MAG=4.6
	LmV B	55	D = 77.3° Az = 331.5° (USCGS) LmV:17s 0.4/um MLH=4.9
9.	e A	19 24 25	Near earthquake
	e(Sg) A	24 29.5	TRIESTE: D = 200 km
	e A	24 33	
9.	eiP A	21 40 40	<u>North Atlantic Ridge</u> 19.2°N 46.0°W
	e A	40 54	H = 21 31 07.8 h = 18 km MAG=4.6 (USCGS) D = 55.0°

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Day	Phase	h m s	Remarks
9.	LmH C	22 40	<u>South Pacific Cordillera</u> (USCGS)
10.	eP A	03 28 28.5	<u>Kamchatka</u> 59.80°N 161.23°E H = 03 17 36.5 h = normal MAG=4.4 (USCGS) D = 67.2°
10.	eP A	03 47 32	<u>Kamchatka</u> 59.77°N 161.15°E H = 03 36 38.9 h = normal MAG=4.5 (USCGS) D = 67.1°
10.	LmH C	07 02.7	<u>Kamchatka</u> (USCGS)
	LmV C	02.7	
10.	e A	06 48 05	<u>Fiji Islands Region</u> 17.60°S 178.83°W H = 06 29 30.5 h = 529 km MAG=4.8 D = 146.0° Az = 348.1° (USCGS) PV(B):4.5s 0.35 μm PV(A):1.5s 53.6nm e 06 48 05 is the beginning of an unidentified small-amplitude motion.
	+ePKP B	48 11	
	-iPKP A	48 11.5	
10.	iPKHKP A	10 37 08	<u>Fiji Islands Region</u> 21.60°S 179.42°W H = 10 18 25.1 h = 621 km MAG=4.8 (USCGS) D = 149.8° PV:0.8s 37.4nm
10.	eiP A	11 00 13.5	<u>Fox Islands/Aleutian Is.</u> 52.7°N 168.2°E H = 10 48 25.6 h = 26 km MAG=3.9 (USCGS) D = 75.2°
10.	LmH C	11 59.1	<u>Ceram Sea</u> 3.2°S 130.0°E H = 10 56 26.2 h = normal MAG=5.1 (USCGS) D = 110.2° LmH:17.5s 0.4 μm MLH=5.0
10.	e A	11 43 13	Near earthquake?
	e(Sg) A	43 19	

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Day	Phase	h m s	Remarks
10.	e(sP) A	12 17 24	<u>Java Sea</u> 5.9°S 113.1°E
	eISKs B	24 06	H = 12 01 31.5 h = 591 km MAG=5.4 (USCGS)
	eSS C	32.4	D = 101.8°
	e C	37.2	
	eSSSS C	40.0	
	eSa C	43.2	
10.	eP A	19 31 56	<u>Talau Islands</u> 4.78°N 127.11°E
	e A	32 10	H = 19 18 14.7 h = 118 km MAG=5.2
	ePP A	36 12	D = 102.1° Az = 324.0° (USCGS)
	e A	36 25	LmH:28.5s 3.0 μm LmV:20s 1.5 μm
	eSKS C	42 30	(MLH=5.7) (MLV=5.5)
	eS C	43 32	e 32 10 and e 36 25 are the greatest onsets
	eSS C	50.9	in the short-period records.
	eLQ C	20 00	AN USSR gives: h = normal
	LmH C	11.8	
	LmV C	22.4	
11.	ePKIKP A	04 36 58	<u>Solomon Islands</u> 7.04°S 155.78°E
	e A	36 11.5	H = 04 17 02.1 h = 88 km MAG=4.8
	e A	36 25	D = 127.3° Az = 332.0° (USCGS)
			PV2:1.3s 14nm
			AN USSR gives: 7.6°S 150.4°E
			H = 04 18 17 h = 725 km
11.	iPg A	10 36 56.2	Explosion
	iSg A	37 14.0	D = ca. 1.3°
11.	ePn A	12 43 05	<u>Yugoslavia</u> 44.5°N 17.3°E
	e A	43 14.5	H = 12 41 19 (BCIS)
	eSn A	44 22	D = 7.2°
	eLQ B	45 13	LmH:9s 1.4 μm
	LmH B	45.4	MLH=3.9
	LmV B	46.0	ei 43 57 e 44 43 e 44 49
11.	e A	13 35 42	Near earthquake
	e(Sg) A	36 08	TRIESTE gives: e(Sg) 13 34 45.3
	e A	36 16	VIENNA: e 13 33 52 e 34 06
			KHC: e 13 34 23 e 35 05.5

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Day	Phase	A	h m s	Remarks
11.	e(Sg)	A	16 11 09	
	e	A	11 21	
11.	ePKP	A	17 50 23	<u>Fiji Islands Region</u> 19.44°S 177.73°W H = 17 31 22.8 h = 381 km MAG=4.2 (USCGS) D = 148.0°
12.	eP	A	10 43 40	<u>Alaska</u> 54.9°N 161.1°W
	e(PoP)	A	43 56	H = 10 32 01.6 h = 33 km MAG=5.0 (USCGS)
	e	A	44 08	D = 74.5°
12.	ePg	A	13 23 13	Explosion
	i(Sg)	A	23 22.0	
	i(Lg)	A	23 25.5	
12.	LmH	C	14 30.6	LmH:14s 0.3 μ m
	LmV	C	32.4	
12.	e	A	15 26 15	
	e(Sg)	A	26 18.5	
12.	e(Sg)	A	17 27 54	Probably explosion.
12.	eP1	A	21 13 12.5	<u>South of Panama</u> 5.63°N 82.58°W
	eP	C	13 14	H = 21 00 20.9 h = normal MAG=5.0
	+iP2	A	13 20.7	D = 88.4° Az = 39.4° (USCGS)
	eiSKS	C	23 44	PV2:2.4s 190nm SSH:27s 8.6 μ m
	eS	C	24 00	LmH:20.5s 6.2 μ m LmV:23s 11.3 μ m
	eSP	C	24 56	MPV2=5.9 MLH=6.0 MLV=6.2
	eSS	C	29 48	i 13 27.7 e 14 03 e 14 22 e 26 08
	eiLQ	C	36 24	Multiple P. The first onset is much smaller
	eLR	C	41 12	than the second one. Two shocks in the same
	LmH	B	47.2	focus?
	LmV	B	47.2	AN USSR gives: 7.2°N 83.6°W
				H = 21 00 30 h = normal MAG=6
				D = 87.7°
12.	ePKP	A	21 34 32.4	<u>Fiji Islands</u> 16.11°S 178.29°E
	e	A	35 48	H = 21 14 53.1 h = normal MAG=5.3
	e	A	36 26	D = 143.9° Az = 345.6° (USCGS)

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Day	Phase	A	h m s	Remarks
13.	ePKP	A	01 11 53	<u>South of Kermadec Islands</u> 32.2°S 178.3°W
	epPKP2	A	12 04	H = 00 51 16.8 h = normal MAG=4.5 (USCGS) D = 160.3° h = 39 km
13.	eP	B	02 14 23.5	<u>Algeria</u> 35.53°N 0.11°W
	-eP1	A	14 23.5	H = 02 10 20.0 h = 13 km MAG=5.0
	eiP2	A	14 26.5	D = 17.3° Az = 25.8° (USCGS)
	ePP	A	14 38	PV:5.5s 0.5 μ m PV1:1.7s 30nm
	e	A	14 43	PV2:1.5s 77.2nm
	iPPP	A	14 47.4	LmH:13s 1.2 μ m LmV:13s 1.9 μ m
	eS	B	17 38	MLH=4.3 MLV=4.7
	LmH	B	21.7	Successive P-onsets in our short-period
	LmV	B	21.7	records, the second bigger than the first
				one.
13.	e	A	02 34 53	<u>Upper Silesia (KRAKOW)</u>
	e(Sg)	A	37 04.5	e 36 45.5 e 37 08 e 37 17
13.	ePKP	A	07 55 36	<u>New Hebrides Islands</u> 16.2°S 178.1°E
	e(pPKP)	A	55 46	H = 07 36 07.2 h = 50 km MAG=5.4 (USCGS)
	eSS	C	08 17 40	D = 144.0° (h = 36 km)
	LQ	C	32	
	LmH	C	09 00	
	LmV	C	00	
13.	e(Sg)	A	10 01 23	Explosion (Sg)V:1.2s 28.0nm
13.	ePKP	A	10 23 51	<u>New Hebrides Islands</u> 20.40°S 169.27°E
	+iPKP	B	23 51.2	H = 10 04 19.0 h = 46 km MAG=5.0
	-iPKP	A	23 52.5	D = 145.0° Az = 335.0° (USCGS)
	-epPKP	B	23 02.5	LmH:21s 0.3 μ m LmV:21s 0.6 μ m
	+ipPKP	A	23 03.6	MLH=5.0 MLV=5.3
	LmH	B	11 31.5	i 23 10.0 ei 23 19
	LmV	B	31.5	
13.	eP	A	14 41 37	<u>Albania</u> 40.75°N 19.50°E
	e(PP)	A	41 45	H = 14 38 53.9 h = 23 km MAG=4.4
	e(Li)	B	44 18	D = 11.3° Az = 333.6°

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Day	Phase	h m s	Remarks
cont.			
13.	eLg1 A	14 44 53	LmH:12s 1.4/um LmV:11.5s 1.6/um
	eLg2 B	45 18	MLH=4.1
	LmH B	47.4	e 41 59.5 e 42 26.5
	LmV B	47.4	Clear higher-mode surface waves in our records.
13.	e A	22 10 24.5	Near earthquake.
	e(Sg) A	10 41	TRIESTE gives: D = ca. 75 km
	e A	10 49	
14.	epPKIKP A	03 07 28	Santa Cruz Islands 11.44°S 166.23°E H = 02 47 53.0 h = 80 km MAG=5.2 (USCGS) D = 135.7°
14.	eP A	03 18 41	Red Sea 19.81°N 38.93°E H = 03 11 28.2 h = normal MAG=4.7 D = 37.6° Az = 331.4° (USCGS) PV:1.8s 22nm MPV=4.8 AN USSR gives: Red Sea 18.1°N 38.6°E H = 03 11 16 h = normal D = 38.9°
14.	iSg A	09 22 21.5	Explosion
14.	i A	09 43 21.5	
14.	e A	11 22 23	
14.	eSg A	11 51 42	Explosion
14.	eP A	11 17 06.5	Greece (UPP)
	e A	17 10	D = ca. 15°
	e A	22 49	LmH:12s 0.4/um LmV:12s 0.5/um
	LmH B	24	MLH=3.8 MLV=4.0
	LmV B	24	e 17 22 e 22 22
14.	e A	11 52 17.5	

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Day	Phase	h m s	Remarks
14.	LmH C	12 06.4	Iran-Iraq Border Region (USCGS)
14.	ei(Pg) A	12 48 49.5	Explosion
	iSg A	49 10.5	(D = ca. 1.6°)
	i A	49 14.0	
14.	eP A	14 05 08	Unimak Island 54.0°N 164.3°W H = 13 53 23.8 h = normal MAG=4.7 (USCGS) D = 75.7°
14.	iPg A	15 05 20.0	Explosion/Hilders, GFR 50°32.5'N 10°02.4'E
	eiSg A	05 36.0	D = ca. 1.2° Yield: 8.75 t
	LmH A	05 54	
14.	eP A	18 48 06.5	Mid-Indian Rise 16.38°S 66.78°E H = 18 35 46.7 h = normal MAG=5.2 D = 82.1° Az = 329.3° (USCGS)
14.	eSS C	23 14.0	Bismarck Sea 3.6°S 149.4°E
	LmH B	52	H = 22 36 59.9 h = normal MAG=4.6 (USCGS)
	LmV B	52	D = 121.2° LmH:20s 0.3/um LmV:20s 0.4/um MLH=4.9 MLV=5.1
15.	ePg A	02 24 31.5	Switzerland 46.8°N 8.8°E
	i A	24 35.5	H = 02 23 12 (BCIS)
	ei A	24 56	D = 4.3°
	eiSg A	25 31.0	
	iSgSg A	25 34.8	
15.	+iP A	03 34 46.2	Eastern Kazakh SSR 49.83°N 78.11°E
	ePn A	36 18	H = 03 26 57.4 h = 0 km MAG=5.4 D = 41.2° Az = 297.7° (USCGS) PV:0.7s 100nm MPV=5.9 Underground explosion.

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Day	Phase	h m s	Remarks
15.	eP	A 08 26 54	<u>Rat Islands/Aleutian Is.</u> $51.5^{\circ}\text{N } 176.8^{\circ}\text{E}$
	e	A 27 23	H = 08 14 59.3 h = 32 km MAG=4.9 (USCGS)
	LmH	B 09 04.5	D = 77.5°
	LmV	B 04.5	
15.	LmH	C 11 27	<u>Luzon/Philippine Is.</u> (USCGS)
15.	e(Sg)	A 12 01 17.5	Explosion?
	e	A 01 19	PRUHNICE gives: D = 1.5°
15.	iPg	A 12 10 56.5	Explosion
	iSg	A 10 16.0	D = ca. 1.5°
15.	LmV	C 12 50	
15.	LmH	B 14 34.0	LmH:16s $0.55/\mu\text{m}$ LmV:16s $0.17/\mu\text{m}$
	LmV	B 38.2	
15.	eP	A 14 54 18	<u>Mindanao/Philippine Islands</u>
	+iPP	A 54 27.0	$6.81^{\circ}\text{N } 126.31^{\circ}\text{E}$
	e	A 55 16.5	H = 14 40 35.0 h = 37 km MAG=5.3
	ePP	A 58 30	D = 100.0° Az = 324.0° (USCGS); h = 33 km
	LmH	B 15 41.7	pPV:1.5s 30.0nm
	LmV	B 44.0	LmH:20s $0.5/\mu\text{m}$ LmV:20s $0.5/\mu\text{m}$
15.	e(P)	A 16 35 24.5	
15.	iPKHKP	A 17 22 59.8	<u>Fiji Islands Region</u> $21.91^{\circ}\text{S } 179.55^{\circ}\text{W}$
	eiPKP2	A 23 07.5	H = 17 04 13.0 h = 574 km MAG=4.1 D = 150.0° Az = 345.7° (USCGS)
16.	e(P)	A 04 40 10	
16.	eP	C 13 49.0	<u>West New Guinea Region</u> $0.82^{\circ}\text{S } 132.61^{\circ}\text{E}$
	eP	A 49 13.5	H = 13 34 29.9 h = normal MAG=5.2
	ePP	A 53 36.5	D = 109.8° Az = 324.5° (USCGS)
	iPP	B 53 37	PPV:15.5s $1.8/\mu\text{m}$ PSH(B):17s $2.0/\mu\text{m}$
	ei(pPP)	A 53 43	PPSH(B):15s $2.3/\mu\text{m}$ PPSV(B):15s $2.2/\mu\text{m}$
	eSKS	C 59 36	LmH:18s $18.5/\mu\text{m}$ LmV:16s $7.9/\mu\text{m}$

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Day	Phase	h m s	Remarks
cont.			
16.	eSKS	B 13 59 40	MPPV=6.6 MLH=6.7 MLV=6.3
	ei(SKKS)	B 14 00 36	e 49 53 e 52(10) ei52 41 e 59 00
	eS	C 01 16	(pPP) is the greatest onset in the short-
	ePS	C 02 58	period records. (SKKS) is greater in Z
	ePPS	C 03 54	than in the horizontal components. Another
	iPPS	B 04 05	possibility would be to interpret this
	eSS	C 09.1	phase as Pa (7.8 km/s).
	eSSS	C 13.9	
	iLQ	C 19 40	
	eIR	C 27.3	
	LmH	B 35.3	
	LmV	B 42.0	
16.	ei(Px)	A 14 05 36	<u>France</u> $47.3^{\circ}\text{N } 5.4^{\circ}\text{E}$
	eiPb	A 05 48.5	H = 14 04 11 (BCIS); MAG=4.4 (BENSBERG)
	eiPg	A 05 55.0	D = 5.3°
	eSn	A 06 33	PbV:0.5s 33.7nm PgV:1.3s 27.8nm
	iSb	A 06 57.0	PgH:1.3s 49.8nm SbV:1.0s 52.1nm
	iSg	A 06 06.0	SgH:1.0s 230nm
	iSgSg	A 07 13.5	i 05 50.5 i 05 52.3 i 06 27.3 ei 06 56
			Pb and Sb are unusually clear.
16.	e	A 19 03 49	<u>Yugoslavia</u> $44.0^{\circ}\text{N } 17.0^{\circ}\text{E}$
	eSn	A 05 01	H = 19 01 49 (BCIS)
	eSg	A 05 55	D = 7.6°
	e(SgSg)	A 06 03	e 05 17.5 e 05 25 e 05 31 e 06 21
16.	iPKP	A 21 30 56.5	<u>Tonga Islands</u> $16.78^{\circ}\text{S } 173.43^{\circ}\text{W}$
	epPKP	A 31 18.5	H = 21 11 16.5 h = 24 km MAG=4.9
	ei(sPKP)	A 31 28.5	D = 146.0° Az = 354.3° (USCGS); h = 78 km
			PV:1.0s 17.4nm
17.	e(P)	A 10 32 28.5	
17.	-eP	A 11 40 14.5	<u>Fox Islands/Aleutian Is.</u> $51.12^{\circ}\text{N } 169.27^{\circ}\text{W}$
	e	A 40 24	H = 11 28 13.4 h = normal MAG=5.0
	e	A 40 45	D = 78.6° Az = 359.4° (USCGS)

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Day	Phase	h m s	Remarks
17.	eP	A 12 48 22	<u>Near East Coast of Honshu/Japan</u>
	ipP	A 48 34.2	38.3°N 142.1°E
	LmH	B 13 27.5	H = 12 36 07.7 h = normal MAG=4.5
	LmV	B 27.5	D = 81.3° Az = 330.7° (USCGS); h = 44 km PV:1.2s 10.2nm MPV=4.8
17.	e(P)	A 12 54(37)	
17.	e(P)	A 14 04 57	
17.	e(P)	A 16 05 50.5	
17.	LmH	C 18 13	<u>Taiwan Region</u> (USCGS)
	LmV	C 13	
17.	LmH	C 19 53	<u>West Chile Rise</u> 42.7°S 83.4°W
	LmV	C 53.0	H = 18 45 02.5 h = normal MAG=4.9 (USCGS) D = 124.2° LmV:21s 0.13 μm MLV=4.6
17.	e	A 20 15 20	Probably to France 47.3°N 5.4°E H = 00 57 46 (BCIS) D = 5.3°
18.	e	A 02 59 52	
18.	eiPg	A 12 13 47.5	Explosion
	ei	A 13 56	
	iL	A 14 03.0	
18.	e	A 14 15 22	Explosion
	e(Sg)	A 15 33	
18.	eP	A 17 11 26	<u>Near Coast of Honshu/Japan</u> 40.13°N 142.43°E
	epP	A 11 39.5	H = 16 59 21.9 h = 52 km MAG=4.4 D = 79.9° Az = 330.7° (USCGS); h = 50 km

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Day	Phase	h m s	Remarks
18.	e	A 19 33 50	Explosion
	e(Sg)	A 33 52	SgV:1.2s 20.4nm
19.	eP	AB 09 10 27	<u>Turkey</u> 37.91°N 28.99°E
	e	A 10 32.5	H = 09 06 19.0 h = 28 km MAG=4.7
	eS	C 13(44)	D = 17.7° Az = 321.4° (USCGS)
	eIQ	C 13 52	PV(A):1.8s 51.1nm PV(B):7s 0.55 μm
	e(Lg1)	B 15 44	LmH:13.5s 3.5 μm
	e(Lg2)	B 16 22	MLH=4.8
	LmH	B 16.4	e 13 55 e 14 10
	LmV	B 18.1	BCIS gives: Turkey 37.3°N 30.0°E H = 09 06 06 MAG=4.9 (STRASBOURG), 4.6 (ATHENS) D = 18.7°
19.	e	A 11 47 53	(Sg)V:1.2s 12.8nm
	e(Sg)	A 48 05	
19.	iPg	A 12 52 42.2	<u>Explosion/GDR</u>
	i(Sg)	A 52 48.0	
	iL	A 52 51.3	
19.	i(Sg)	A 12 53 13.0	<u>Explosion/GDR</u>
	iL	A 53 15.0	
19.	eiPKHKP	A 13 00 17	<u>Fiji Islands Region</u> 20.31°S 178.18°W
	iPKP2	A 00 23.0	H = 12 41 28.8 h = 518 km MAG=4.5
	e	A 00 47.5	D = 148.7° Az = 348.0° (USCGS)
	e	A 02 30	PV1:1.0s 47.3nm PV2:1.3s 22.2nm
	e	A 02 50	
19.	e	A 13 09 09.5	Explosion?
19.	e	A 13 37 51	Explosion
	e(Sg)	A 37 54	
	i	A 37 56.0	
19.	e(P)	A 15 11 10	
	e	A 11 23.5	

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Day	Phase	h m s	Remarks
19.	eP	A 16 21 57.5	<u>Greece</u> 38.34°N 21.16°E
	e	A 22 04	H = 16 18 38.4 h = normal MAG=4.5 (USCGS)
	e	A 22 44.5	D = 14.1°
19.	e	A 16 46 04	Near earthquake?
	e	A 46 09.5	
19.	iP	A 17 36 17.0	<u>Hindu Kush Region</u> 36.50°N 70.30°E H = 17 28 32.2 h = 223 km MAG=4.7 (USCGS) D = 43.6° AN USSR gives: Hindu Kush Region 35.8°N 70.8°E H = 17 28 06 h = normal D = 44.4°
20.	e	A 07 02 40.5	Explosion
	e	A 02 47	
20.	iP	A 07 09 29.8	<u>Kurile Islands</u> 44.37°N 149.32°E H = 06 57 30.8 h = normal MAG=4.4 D = 78.5° Az = 334.1° PV:1.0s 7.1nm MPV=4.8
20.	iSg	A 09 08 05.5	Explosion
20.	iP	A 09 14 12.4	<u>Kodiak Islands Region</u> 56.52°N 153.27°W H = 09 02 47.3 h = 33 km MAG=4.5 D = 72.5° Az = 10.0° (USCGS) PV:1.1s 9.6nm MPV=4.8
20.	e(Sg)	A 11 32 08.5	<u>Explosion/CSSR</u> 50°05.3'N 16°20.8'E
	e	A 32 15	Yield: 19.8 t (PRUHONICE) D = 3.1°
20.	LmH	C 12 52.5	<u>East New Guinea Region</u> (USCGS)

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Day	Phase	h m s	Remarks
20.	iPg	A 13 01 37.8	<u>Explosion/GDR</u> 51°17.2'N 12°43.8'E
	iSg	A 01 52.1	D = 0.9° Yield: 2.7 t
20.	eP	A 13 25 24	<u>Catamarca Prov./Argentina</u> 28.07°S 66.92°W
	ePP	AC 29 38	H = 13 11 35.0 h = 157 km MAG=5.3 (USCGS)
	iPP	B 29 40	D = 104.4°
	iSKS	B 35 52	PPV(B):4.5s 0.4 μ m SKSH:8s 0.7 μ m
	eSKKS	C 36 32	SH:10s 0.55 μ m SPV:12s 0.5 μ m
	eiSKKS	B 36 36	LmV:19s 0.4 μ m LmH:18s 0.5 μ m
	eS	C 37 00	MPPV=6.2
	eSP	B 38 36	
	eSS	C 44.3	
LmH	B 14 14.0		
LmV	B 14.0		
20.	iPg	A 14 12 06.5	Explosion
	iSg	A 12 22.5	D = ca. 1.1°
20.	eP	A 14 38 09	<u>Rat Islands/Aleutian Is.</u> 51.36°N 178.33°E
	e	A 38 16	H = 14 26 14.1 h = 33 km MAG=5.3
	e	A 38 34	D = 77.7° Az = 351.4° (USCGS) PV:1.1s 33.8nm MPV=5.4
20.	eP	A 15 50 26.5	<u>West Caroline Islands</u> 7.73°N 134.88°E
	e	A 50 34.5	H = 15 36 20.1 h = 8 km MAG=5.8
	e	A 50 44	D = 104.1° Az = 326.7°
	ePP	C 54 50	PV1:1.7s 35nm PV2:1.7s 35nm
	iPP	C 54 59	PV3:2.3s 80nm PPV(B):10s 1.3 μ m
	eiSKS	B 16 00 56	SH(B):16s 2.1 μ m SH(C):(30s) 3.4 μ m
	eS	C 02 12	SSH:34s 8.8 μ m
	eS	B 02 16	LmH:16.5s 17 μ m LmV:17s 20.7 μ m
	eSP	C 04.1	MPPV=6.4 MLH=6.8 MLV=6.9
	eiSS	C 09 38	LQ begins in the registrations of type C
	iSSS	C 13 54	with periods of about 72 s and great am-
	eLQ	C 20.8	plitudes. Very clear normal dispersion.
	LmH	B 41.5	
LmV	B 41.5		

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Day	Phase	h m s	Remarks
20.	e	A 16 21 30.5	<u>Yugoslavia</u> 46.18°N 15.15°E
	e(Pb)	A 21 35.5	H = 16 20 07.9 h = 22 km MAG=4.3
	e	A 21 42.5	D = 5.0° Az = 333.5° (USCGS)
	ePg	A 21 50	<u>Istria</u> 45°20'N 14°4'E
	iSn	A 22 21.5	H = 16 20 02 (BCIS)
	eiSg	A 22 52.5	D = 5.5°
	eSgSg	A 22 59.5	
	e	A 23 08	
20.	ePn	A 19 06 09.5	<u>Albania</u> 40.82°N 19.78°E
	ePg	A 07 17.5	H = 19 03 27.3 h = normal MAG=4.3
	e(Sb)	A 09 02	D = 11.4° Az = 332.7° (USCGS)
	eLg2	B 09 48	LmH:16s 0.9 μ m LmV:16s 0.5 μ m
	LmH	B 10.2	MLH=3.8
	LmV	B 11.2	e 06 31.5 e 08 22 e 09 43 e 10 09
20.	ePKIKP	A 23 31 39	<u>South of Fiji Islands</u> 26.46°S 178.47°E
	eiPKHKP	A 31 47.3	H = 23 12 54.4 h = 596 km MAG=5.2
	iPKP2	A 32 04.2	D = 153.8° Az = 340.8° (USCGS)
	e	A 32 17	PV2:1.3s 16.7nm PV3:1.4s 30.3nm
	e	A 34 16	AN USSR gives: Kermadec Islands 28.1°S 179.6°W H = 23 11 45 h = normal
21.	eSg	A 01 22 45	Near earthquake. TRIESTE gives: D = 120 km
	eP	A 06 49 36	PV:0.8s 14.2nm
21.	LmH	C 08 03.4	<u>Sumatra</u> (USCGS)
	LmV	C 03.4	
21.	ei(P)	A 12 18 21	(P)V:0.5s 9.6nm
21.	i(Sg)	A 12 47 00	<u>Explosion/GDR</u>
	iL	A 47 03.1	
21.	i(Sg)	A 12 47 10	<u>Explosion/GDR</u>
	iL	A 47 12.5	

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Day	Phase	h m s	Remarks
21.	iL	A 12 47 28.0	<u>Explosion/GDR</u>
21.	iPg	A 12 59 58.0	Explosion
	iSg	A 13 00 10.5	D = 0.9°
21.	ePKP	A 13 05 26.5	<u>Fiji Islands Region</u> 21.34°S 176.20°W
	e	A 05 28.5	H = 12 45 57.4 h = 199 km MAG=4.5
	e	A 05 31	D = 150.1° Az = 350.0° (USCGS)
	LmH	B 14 09.2	PV2:1.6s 30.4nm
	LmV	B 09.5	LmH:22s 0.3 μ m LmV:24s 0.5 μ m
21.	e(P)	A 14 07 03.5	(P)V:0.8s 11.8nm
21.	ePKIKP	A 19 47 36	<u>New Hebrides Islands</u> 19.17°S 168.60°E
	epPKIKP	A 47 47.5	H = 19 28 08.0 h = 53 km MAG=4.8 D = 143.7° Az = 335.2° (USCGS); h = 41 km PV:1.2s 15.3nm
21.	eP	A 20 53 28	<u>Cyprus</u> 34.8°N 34.4°E
	e	A 53 45	H = 20 48 38.5 h = 114 km (USCGS) D = 22.8°
21.	ei(Sg)	A 21 51 02.5	Probably near earthquake.
22.	ePKIKP	A 04 17 56	<u>South of Kermadec Islands</u> 33.46°S 178.96°W
	ePKP2	A 18 42	H = 03 58 02.4 h = 39 km MAG=5.0
	epPKP2	A 18 53.5	D = 161.2° Az = 338.8° (USCGS); h = 41 km
	eSKKS	C 29 16	PV2:1.5s 26.8nm PV3:1.6s 45.5nm
	ePSKS	C 32 32	e 21 55 e 22 20
	ePKPScS	C 33 36	
	ePPS	C 36.0	
	eSS	C 42.5	
	eSSS	C 48.6	
22.	ePKP2	A 07 01 34.5	<u>South of Kermadec Islands</u> 33.69°S 178.71°W
	e(pPKP2)	A 01 44	H = 06 40 53.4 h = 26 km MAG=4.6 (USCGS) D = 161.5° (h = 34 km)
22.	e(Sg)	A 08 38 20	

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Day	Phase	h m s	Remarks
22.	i(P) e	A A 08 19 57.5 20 07	<u>Kodiak Island</u> 58.3°N 151.6°W H = 08 08 35.1 h = normal MAG=4.1 (USCGS) D = 70.5°
22.	-eiPn eiSn ei(Sb) e(SgSg)	A A A A 11 00 44.0 01 54.5 02 24 02 46	<u>United Kingdom</u> 51.41°N 1.32°E H = 10 59 04.7 h = 0 km MAG=4.7 D = 6.5° Az = 92.7° (USCGS) PnV:0.5s 33.7nm PnH:0.5s 32.5nm BCIS gives: 51°02'22"N 01°13'33"E H = 10 59 06 Yield: 500 t Chemical explosion.
22.	-iP eS LmH	AB B 17 00 49 04(08) (09)	<u>Atapazari/Turkey</u> 40.66°N 30.77°E H = 16 56 53.3 h = 4 km MAG=6.0 D = 16.7° Az = 313.2° (USCGS) PH:(8s 32 μm) LmH:(10s 540 μm) MPH=ca.7 MLH=ca.7 Multiple P with successively increasing amplitude. The amplitudes of surface waves are determined from the records of the Wiechert-seismograph.
22.	iP	A 17 34 02.5	<u>Turkey</u> H = 17 30.1 (UPP)
22.	eP1 iP2	A A 17 52 00 52 01.5	<u>Turkey</u> 40.56°N 30.72°E H = 17 48 06.0 h = 26 km MAG=5.0 D = 16.7° Az = 313.5° (USCGS) PV2:1.7s 94.5nm
22.	i	A 17 53 05	
22.	e	A 17 54 21	
22.	ei	A 17 54 35	
22.	eP	A 18 12 33	<u>Turkey</u> H = 18 08.6 (UPP)

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Day	Phase	h m s	Remarks
22.	eiP	A 18 17 26	<u>Turkey</u> H = 18 13.6 (UPP)
22.	eP i	A A 18 13 45 13 48.2	<u>Turkey</u> 40.80°N 30.39°E H = 18 09 55.7 h = normal MAG=5.0 D = 16.3° Az = 313.3° (USCGS)
22.	eP	A 19 51 21	<u>Turkey</u> 40.81°N 30.93°E H = 19 47 25.6 h = normal MAG=4.6 D = 16.6° Az = 312.7° (USCGS)
22.	eP	A 20 39 36	<u>Turkey</u> 40.60°N 30.45°E H = 20 35 40.8 h = 16 km MAG=4.5 D = 16.5° Az = 313.7° (USCGS)
22.	eP	A 21 25 31	<u>Turkey</u> 40.46°N 30.51°E H = 21 21 34.1 h = 16 km MAG=4.4 (USCGS) D = 16.6°
22.	eP e	A A 22 12(27.5) 12 29.5	<u>Turkey</u> 40.70°N 30.70°E H = 22 08 29.5 h = 13 km MAG=4.5 (USCGS) D = 16.6°
22.	eP e	A A 23 45 51 45 57	<u>Turkey</u> 40.60°N 30.68°E H = 23 41 59.5 h = normal MAG=4.7 (USCGS) D = 16.7°
23.	i(P)	A 01 39 20.0	
23.	LmH	C 02 17	
23.	ePKIKP e ePP eSKSP LmH LmV	A A A A C C 03 28(12) 28 19 31 09 31 44.5 04 32.5 32.5	<u>New Hebrides Islands</u> 15.68°S 167.11°E H = 03 08 43.7 h = 33 km MAG=4.9 D = 139.9° Az = 335.8° (USCGS) LmH:23s 0.6 μm MLH=5.2

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Day	Phase	h m s	Remarks
23.	eP A	04 07 30	<u>Turkey</u> 40.58°N 30.56°E H = 04 03 38.5 h = 21 km MAG=4.5 (USCGS) D = 16.7°
23.	eP A	04 53(45)	<u>Turkey</u> 40.6°N 30.7°E H = 04 48 53.3 h = normal MAG=4.5 (USCGS) D = 16.8°
	e A	53 50	
	LmH C	58.2	
23.	ePg A	12 20 58	Explosion
	iSg A	21 05.0	
	iL A	21 06.5	
23.	LmH B	07 54.2	<u>Turkey</u> 40.7°N 30.8°E H = 07 42 22 (BCIS) D = 16.9° LmH:9s 0.6 μ m LmV:10s 0.6 μ m MLH=4.1 MLV=4.3
	LmV B	54.2	
23.	LmH C	08 21.2	<u>Ryukyu Islands</u> 29.4°N 129.4°E H = 07 26 46.2 h = 45 km MAG=4.7 (USCGS) D = 83.3° LmH:16s 0.5 μ m LmV:16s 0.4 μ m MLH=5.0 MLV=4.9
	LmV C	21.2	
23.	e A	14 08 43	<u>Macquarie Islands Region</u> 56.18°S 158.33°E H = 13 48 05.8 h = normal MAG=5.1 (USCGS) D = 159.6°
	e(PKP2) A	08 52	
	e A	09 11	
	LmH C	15 30.7	LmH:19s 1.1 μ m MLH=5.6
23.	e A	16 00 33	
23.	eP A	16 01(02)	<u>Turkey</u> 40.7°N 30.6°E H = 15 57 08.8 h = normal MAG=4.4 (USCGS) D = 16.8°
	e A	01 08	
	e A	01 56.5	
23.	ePKP A	19 03 48	<u>Tonga Islands</u> 19.96°S 175.48°W H = 18 44 13.6 h = 77 km MAG=4.9 D = 148.0° Az = 351.2° (USCGS) PV2:1.5s 33.6nm
	e A	03 53	

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Day	Phase	h m s	Remarks
23.	e A	20 06 03.5	Near earthquake?
	ei A	06 19	
	ei A	06 23	
23.	eP A	23 23 07	<u>Turkey</u> 40.6°N 30.7°E H = 23 19 13.5 h = 15 km MAG=4.3 (USCGS) D = 16.9°
24.	eP A	00 45 33	
24.	eP A	03 44 16	<u>Turkey</u> 40.8°N 30.8°E H = 03 40 20.1 h = 4 km MAG=4.2 (USCGS) D = 16.6°
	i A	44 20.5	
24.	LmH C	08 17	<u>Central California</u> (USCGS)
24.	e A	11 43 52.5	Explosion?
	e(Sg) A	43 57	
	eL A	44 05	
24.	e A	12 25 47	Near earthquake.
	e A	26 27.5	TRIESTE gives: D = 380 km
	ei A	26 53	
	e A	27 16	
24.	eP A	13 56 58.5	
24.	eiP A	15 40 24.5	<u>Off East Coast of Honshu/Japan</u> 33.11°N 142.07°E H = 15 27 45.4 h = 22 km MAG=4.6 D = 85.8° Az = 330.9° (USCGS)
24.	ei(Sg) A	16 48 49	Explosion
25.	ipP A	00 45 53.5	<u>Southeast of Japan</u> 33.1°N 142.0°E H = 00 33 02.8 h = 35 km MAG=4.5 (USCGS) D = 85.8°

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Day	Phase	h m s	Remarks
25.	eP	A 08 40(28)	<u>Greece-Bulgaria Border Region</u>
	e	A 40 48	41.86°N 24.58°E
	eLg1	A 43 56	H = 08 37 25.7 h = normal MAG=4.2
	eLg2	A 44 24	D = 12.5° Az = 318.9° (USCGS)
	LmH	B 44.7	LmH:13.5s 0.5 μ m LmV:11s 0.5 μ m
	LmV	B 46	MLH=3.6
25.	iSn	A 11 25 08.7	<u>Yugoslavia</u> 45.6°N 14.5°E
	e	A 25 37.5	H = 11 22 47 (BCIS)
	eSg	A 25 40	D = 5.4°
	e	A 25 49	
25.	iPg	A 12 00 16.2	<u>Explosion/GDR</u>
25.	e(Sg)	A 12 40 58	Probably explosion.
25.	LmH	B 12 49.4	LmH:13s 0.2 μ m
	LmV	B 51	
25.	LmH	C 13 23.0	<u>Southern Iran</u> 28.9°N 54.5°E H = 13 00 38.8 h = 34 km MAG=4.5 (USCGS) D = 38.1° LmH:26s 0.2 μ m MLH=3.8
26.	eP	A 03 41 45	PV:1.3s 8.3nm
26.	e(P)	A 06 03(00)	<u>Turkey</u>
	i	A 03 06.0	H = 06 59.1 (UPP)
26.	LmV	B 04 24.4	LmH:11s 0.2 μ m LmV:11s 0.2 μ m
	LmH	B 24.6	
26.	ePKIKP	A 06 51 04.5	<u>Kermadec Islands</u> 31.79°S 178.68°W
	e	A 51 35	H = 06 31 10.6 h = 37 km MAG=5.1 (USCGS)
	e(PKP2)	A 51 43.5	D = 159.7°
	eI	A 51 58	

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Day	Phase	h m s	Remarks
26.	ei(P)	A 08 06 50.5	(P)V:0.7s 11.9nm
	ei	A 07 06	
	e	A 07 21	
26.	+ePKIKP	A 08 34 36	<u>Loyalty Islands Region</u> 22.01°S 170.11°E
	epPKIKP	A 34 48	H = 08 14 56.3 h = 30 km MAG=5.0
	LmH	B 09 43	D = 146.8° Az = 334.8° (USCGS); h = 43 km
	LmV	B 43.5	PV(B):8s 1.1 μ m LmH:19s 0.4 μ m LmV:20s 0.5 μ m MLH=5.2 MLV=5.3
26.	iP	A 09 19 59.6	<u>Turkey</u> 40.31°N 30.57°E
	ei	A 20 04.3	H = 09 16 06.4 h = normal MAG=4.5 (USCGS)
	e	A 20 09	D = 16.8°
	LmH	B 28.0	PV2:1.6s 22.8nm
	LmV	B 28.0	LmH:10s 0.7 μ m LmV:9.5s 0.6 μ m MLH=4.2 MLV=4.3
26.	eP	A 09 35 44.5	<u>Greenland Sea</u> 73.43°N 7.16°E
	e	A 35 51	H = 09 30 42.6 h = normal MAG=4.4 D = 23.0° Az = 172.7° (USCGS) PV:1.5s 26.8nm MPV=4.6
26.	ePKP	A 09 58 19.5	<u>New Hebrides Islands</u> 20.54°S 169.89°E H = 09 38 44.1 h = 34 km MAG=4.6 D = 145.4° Az = 335.5° (USCGS)
26.	e(Sg)	A 12 08 17.5	(Sg)V:1.0s 14.2nm
26.	iPg	A 14 11 45.5	<u>Explosion/GDR</u>
	eiSg	A 12 01.5	D = ca. 1.2°
26.	ei	A 18 01 19.5	Explosion?
	i	A 01 25	
	eL	A 01 30	
26.	-eiP1	A 18 58 04	<u>Turkey</u> 39.48°N 40.36°E
	-iP	B 58 04	H = 18 53 01.3 h = normal MAG=5.6
	-iPL	C 58 05	D = 23.0° Az = 308.5° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
26.	+iP2	A 18 58 06.0	PLV:26s 2.7 μ m PLH:26s 2.6 μ m
	iS	B 19 02 15	SH:12.5s 19.8 μ m
	i	C 02 22	LmH:12s 39 μ m LmV:11s 29.2 μ m
	eLR	C 03.8	MSH=6.4 MLH=6.1 MLV=6.1
	LmH	B 10.8	Multiple P in the short-period records, P1 much smaller than P2. Clear PL-waves in the long-period registrations are su- perimposed by short-period P-waves (T ca. 5 s).
	LmV	B 10.8	
26.	ePKP	A 19 12 03	<u>Tonga Islands</u> 17.41 $^{\circ}$ S 174.00 $^{\circ}$ W
	e	A 12 35	H = 18 52 21.2 h = 15 km MAG=5.0 D = 146.5 $^{\circ}$ Az = 353.2 $^{\circ}$ (USCGS) PV: 1.6 s 49.3 nm
27.	i(PKP)	A 00 27 52.9	Probably to <u>Solomon Islands</u> 6.76 $^{\circ}$ S 155.44 $^{\circ}$ E H = 00 08 40.1 h = 54 km MAG=5.2 D = 126.9 $^{\circ}$ Az = 332.0 $^{\circ}$ (USCGS) PKIKP must be 13 s earlier than (PKP).
27.	LmH	B 00 57.5	<u>Revilla Gigedo Islands</u> 19.9 $^{\circ}$ N 109.4 $^{\circ}$ W
	LmV	B 57.5	H = 00 00 47.9 h = 31 km MAG=5.1 (USCGS) D = 92.7 $^{\circ}$ LmH:15s 0.4 μ m LmV:16s 0.8 μ m MLH=5.0 MLV=5.3
27.	ei	A 01 50 43.5	Explosion?
	e(Sg)	A 50 45.5	(Sg)V:0.8s 14.1nm
27.	e	A 01 48 07.5	<u>Iran</u> 31.7 $^{\circ}$ N 50.8 $^{\circ}$ E
	e	A 48 24	H = 01 40 53.6 h = 65 km MAG=5.0 (USCGS)
	e	A 50 24	D = 34.5 $^{\circ}$
	LmH	C 02 01.5	
27.	eP	A 04 59 20	<u>Crete</u> 34.28 $^{\circ}$ N 26.66 $^{\circ}$ E
	ei	A 59 24	H = 04 54 52.0 h = 53 km MAG=4.2
	e	A 59 57	D = 19.7 $^{\circ}$ Az = 330.7 $^{\circ}$ (USCGS)

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Day	Phase	h m s	Remarks
27.	+eP	A 05 22 43.5	<u>Iceland</u> 64.02 $^{\circ}$ N 20.73 $^{\circ}$ W
	e	A 22 53.5	H = 05 17 54.0 h = normal MAG=5.0
	e	A 23 01	D = 21.7 $^{\circ}$ Az = 112.8 $^{\circ}$ (USCGS)
	e	A 23 08.5	PV:1.9s 165nm PH:2.0s 157nm
	eiS	B 26 50	SH:7s 1.1 μ m
	LmH	B 33.1	LmH:12s 1.3 μ m LmV:12s 1.8 μ m
	LmV	B 33.3	MPV=5.1 MPH=5.2 MSH=5.2 MLH=4.6 MLV=4.8
27.	eP	A 11 48 47	<u>South Indian Ocean</u> 35.12 $^{\circ}$ S 54.01 $^{\circ}$ E
	eS	C 59(40)	H = 11 35 33.8 h = normal MAG=5.0
	ePPS	C 12 01 08	D = 93.2 $^{\circ}$ Az = 334.5 $^{\circ}$ (USCGS)
	LmH	C 30.6	LmH:24s 0.3 μ m LmV:20s 0.4 μ m
	LmV	C 32.0	MLH=4.7 MLV=4.9
27.	ePg	A 13 15 21.5	<u>Explosion/Zeulenroda, GDR</u>
	iSg	A 15 26.8	H = 13 15 16.5 D = ca. 0.3 $^{\circ}$
28.	LmH	C 03 00.1	LmH:18s 0.3 μ m LmV:16s 0.2 μ m
	LmV	C 01	
28.	LmV	C 04(35)	<u>Oaxaca/Mexico</u> (USCGS)
	LmH	C 36	
28.	eiPKP	A 05 36 08	<u>Loyalty Islands Region</u> 22.05 $^{\circ}$ S 169.91 $^{\circ}$ E
	e	A 36 38	H = 05 16 28.2 h = 33 km MAG=4.1 D = 146.8 $^{\circ}$ Az = 334.5 $^{\circ}$ PV:1.2s 15.3nm
28.	eiP	A 07 14 05	<u>Kurile Islands</u> 47.4 $^{\circ}$ N 153.1 $^{\circ}$ E
			H = 07 02 17.2 h = 60 km MAG=4.5 (USCGS) D = 76.9 $^{\circ}$
28.	iPg	A 09 13 06.0	Explosion
	iSg	A 13 07.5	
28.	e(P)	A 09 56 14.5	<u>Hokkaido/Japan Region</u> 42.59 $^{\circ}$ N 145.38 $^{\circ}$ E
			H = 09 44 21.1 h = 142 km MAG=3.9 (USCGS) D = 78.7 $^{\circ}$ P must be about 6 s earlier than e(P).

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Day	Phase	h m s	Remarks
28.	ePKIKP A	10 06 34.5	<u>South of Australia</u> 49.68°S 117.04°E H = 09 47 19.3 h = normal MAG=5.0 D = 134.1° Az = 301.2° (USCGS)
28.	eSg A	10 32 22.5	Explosion?
	eL A	32 38	
28.	eiSg A	12 00 44	
28.	ei A	12 47 26.5	<u>Explosion/GDR</u>
	eiSg A	47 29	
28.	eSg A	12 47 39	<u>Explosion/GDR</u>
28.	eiSg A	12 47 46	<u>Explosion/GDR</u>
28.	eSg A	12 47 55.5	<u>Explosion/GDR</u>
28.	ei(Sg) A	14 07 17	
28.	ePKIKP A	14 44 31	<u>Fiji Islands Region</u> 20.73°S 178.53°W
	iPKHKP A	44 36.5	H = 14 25 50.1 h = 555 km MAG=4.7
	iPKP2 A	44 43.2	D = 149.1° Az = 347.4° (USCGS)
	epPKP A	46 58	PV2:1.5s 53.7nm PV3:1.3s 22.2nm
28.	iPn A	15 05 35.0	<u>Explosion/Bransrode, GFR</u>
	i A	05 35.8	51°14.0'N 9°51.6'E
	iPg A	05 36.9	D = 1.2° Yield: 21 t
	i A	05 52.2	
	iSg A	05 53.2	
28.	eP A	15 39 53	<u>Iceland</u> 63.94°N 20.53°W
	e A	39 56	H = 15 35 03.4 h = 31 km MAG=4.6
	eS B	44 00	D = 21.6° Az = 112.9° (USCGS)
	LmH B	48.3	PV1:1.6s 44.0nm PV2:1.4s 40.0nm
	LmV B	50.4	LmH:18s 0.7 μ m LmV:12s 0.9 μ m MPV=4.8 MLH=4.1 MLV=4.6

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Day	Phase	h m s	Remarks
28.	eP A	17 40 14.5	<u>Northern Sumatra</u> 2.11°N 98.01°E
	e(pP) A	40 29	H = 17 27 35.7 h = 32 km MAG=5.1
	e(sP) A	40 34	D = 86.1° Az = 320.4° (USCGS); (h = 56 km) PV:1.5s 13.4nm MPV=4.9
28.	eP A	22 57 46.5	<u>Southwestern Ryukyu Islands</u>
	LmH B	23 39	23.89°N 125.44°E
	LmV B	41	H = 22 45 07.1 h = 14 km MAG=4.9 D = 85.7° Az = 324.3° (USCGS) LmV:18s 0.3 μ m MLV=4.7
29.	e(Sg) A	00 18 56	Near earthquake. TRIESTE gives: D = 115 km
29.	eiP A	02 25 59	<u>Iceland</u> 64.05°N 20.56°W
	ei A	26 03.5	H = 02 21 09.5 h = normal MAG=4.7
	e A	26 18.5	D = 21.6° Az = 113.1° (USCGS)
	eS C	30.0	PV:2.0s 51.8nm SH(B):9s 0.4 μ m
	eiS B	30 09	LmH:12s 0.5 μ m LmV:12s 0.6 μ m
	LmH B	35.5	MPV=4.7 MSH=4.8 MLH=4.1 MLV=4.3
	LmV B	36.5	
29.	LmH C	03 49	<u>Off Coast of Hokkaido/Japan</u>
	LmV C	49	42.75°N 146.73°E H = 02 57 18.1 h = normal MAG=4.6 (USCGS) D = 79.1° LmH:18s 0.1 μ m LmV:16s 0.2 μ m MLH=4.3 MLV=4.5
29.	e(P) A	10 36 23.5	<u>Northern Colombia</u> 6.81°N 72.99°W
	+eiP BC	36 24.5	H = 10 24 24.6 h = 161 km MAG=6.0
	+iP A	36 25.2	D = 81.4° Az = 39.9° (USCGS); h = ca. 165 km
	epP B	37 05	
	epP C	37 06	PV(A):2.5s 735nm PV(B):11s 6.2 μ m
	esP C	37 20	PH(B):11s 2.2 μ m SH(B):17s 11.6 μ m
	e(sP) B	37 24	sSH:15s 18.7 μ m PKPPKPV:2.2s 71.5nm
	ei(pPP) B	40 19	LmH:15.5s 5.4 μ m LmV:17s 9.8 μ m

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Day	Phase	h m s	Remarks
cont.			
29.	eS AB	10 46 22	MPV(A)=6.0 MPV(B)=6.2 MPH(B)=6.1
	eSP C	47 00	MSH(B)=6.6
	epS B	47 10	e 37 34 e 37 48.5 i 47 56 i 48 13
	isS B	47 29	P has an exceptionally long period in the
	isSS B	52 46	short-period registrations (T = 2.5 s).
	iSa B	58.6	(P) is a small-amplitude precursor. The
	iR C	11 02 16	long-period Rayleigh-wave (R; T ca. 50 s)
	ePKPPKP A	03 02	shows a sharp beginning and a great ampli-
	epPKPPKP A	03 44	tude.
	eSKPPKP A	06 16	
	esSKPPKP A	06 33	
	LmV B	10.9	
	LmH B	11.1	
29.	eP A	11 38 56	<u>Kurile Islands</u> 44.53°N 149.15°E H = 11 26 57.4 h = normal MAG=4.0 (USCGS) D = 78.2° PV:0.8s 7.1nm MPV=4.8
29.	eP A	15 10 28	
29.	e A	21 28 27.5	
29.	LmH B	22 04.1	LmH:13.5s 0.3 μ m LmV:12s 0.3 μ m
	LmV B	04.9	
29.	ePKP A	22 23 50.5	<u>Fiji Islands Region</u> 17.07°S 177.15°W
	e A	24 07	H = 22 04 27.2 h = 187 km MAG=4.2 D = 145.8° Az = 350.1° (USCGS)
30.	eP1 B	00 11 41	<u>Near Coast of Venecuela</u> 10.56°N 67.26°W
	iP2 B	11 48.5	H = 23 59 58.7 h = 10 km MAG=5.6
	iP3 B	12 02	D = 74.9° Az = 40.3° (USCGS)
	iP3 A	12 03.5	PV2:8s 1.5 μ m PV3(B):12s 3.0 μ m
	eX B	13 08	PH3(B):12s 1.1 μ m XV:14s 2.2 μ m
	e(PP) B	14 20	(PP)V:16s 2.3 μ m SH2:12s 1.2 μ m
	ePa B	17.3	SH3:14s 5.5 μ m

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Day	Phase	h m s	Remarks
cont.			
30.	eS1 C	00 21 12	LmH:21s 24 μ m LmV:21.5s 44.6 μ m
	eS2 B	21 18	MPV2=6.2 MPV3=6.3 MPH3=6.2 MSH2=5.9
	iS3 B	21 31	MSH3=6.5 MLH=6.5 MLV=6.8
	iSS C	26 20	e 15 14 i 22 46 e 23 33
	iG C	31 00	Multiple P- and S-onsets with increasing
	iR C	35 00	amplitudes. Probably multiple shocks in
	LmH B	41.3	the same focus Exceptionally clear G-
	LmV B	41.3	(T ca. 50 s) and R- (T ca. 40 s) waves
			with abnormally great amplitudes in the
			seismographs of the type C.
30.	ePKIKP A	01 21 10	<u>South of Kermadec Islands</u> 33.04°S 179.11°W H = 01 01 12.2 h = normal (USCGS) D = 160.8°
30.	eP1 A	01 34 52.5	<u>Turkey</u> 40.68°N 30.45°E
	iP2 AB	34 55.0	H = 01 31 01.7 h = 16 km MAG=5.6
	eiS C	37 50	D = 16.5° Az = 313.5° (USCGS)
	iSS C	38 14	PV1:1.5s 23.5nm PV2(A):1.8s 316nm
	eLg1 B	39 56	PV2(B):12s 2.9 μ m
	LmH B	42.8	LmH:11s 14.3 μ m LmV:11s 14.0 μ m
	LmV B	42.8	MLH=5.4 MLV=5.6
			P is multiple in the short-period records.
30.	e(P) A	02 01 12	Probably Turkey H = 01 57.3 (UPP)
30.	LmH B	09 24	<u>South Sandwich Island Region</u> 60.1°S 28.5°W
	LmV B	24	H = 08 19 28.3 h = 33 km MAG=5.2 (USCGS) D = 114.8° LmH:19s 0.4 μ m LmV:19s 0.6 μ m MLH=5.1 MLV=5.2
30.	e(P) A	10 28 09	Probably Turkey
	e A	28 37.5	H = 10 25 09 (UPP)
30.	ePKIKP A	11 09 23	<u>West of Macquarie Island</u> 56.16°S 146.95°E
	ei A	09 29.5	H = 10 49 32.8 h = normal MAG=5.1
	eiPKHKP A	09 31.5	D = 153.2° Az = 277.2° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
30.	ePKP2	A 11 09 43.5	LmH:20s 1.3 μ m LmV:20s 2.1 μ m
	eSS	C 32 50	MLH=5.6 MLV=5.9
	eSSP	C 33 38	ei 09 29.5 e 09 53 e 47 30
	eSPSP	C 34 12	SS2 and SSP2 are travelled to the station
	eSSS	C 38 30	along the farther path ($D_2 = 360^\circ - D$).
	eSS2	C 41.0	
	eSSP2	C 43.2	
	eLQ	C 49.7	
	LmH	B 12 23.5	
	LmV	B 24.1	
30.	ePKIKP	A 13 54 13.5	<u>New Ireland Region</u> 5.27 $^\circ$ S 153.55 $^\circ$ E
	ePP	B 55 58	H = 13 35 14.4 h = 50 km MAG=5.2
	ePP	A 55 59.5	D = 124.7 $^\circ$ Az = 331.5 $^\circ$ (USCGS)
	ePS	C 14 05 50	PPV(B):13s 0.75 μ m
	ePPS	C 07 26	LmH:17s 1.7 μ m LmV:18s 2.9 μ m
	eSS	C 13.1	MPPV=5.2 MLH=5.8 MLV=6.0
	e(PSPS)	C 13 46	e 54 25 e 54 33
	eSSS	C 17.9	
	eLQ	C 28	
	LmV	B 52.9	
	LmH	B 53	
30.	ePKIKP	A 17 43 19.5	<u>Fiji Islands Region</u> 17.77 $^\circ$ S 178.76 $^\circ$ W
	iPKHKP	A 43 21.5	H = 17 24 43.1 h = 564 km MAG=5.1
	e	A 46 08.5	D = 146.2 $^\circ$ Az = 348.1 $^\circ$ (USCGS)
	ePP	A 46 54	PV2:1.4s 55.2nm
			AN USSR gives: 17.6 $^\circ$ S 178.1 $^\circ$ W
			H = 17 23 50 h = 66 km
30.	eP	A 19 02 35	<u>Turkey</u> 40.71 $^\circ$ N 30.69 $^\circ$ E
	LmH	B 10.5	H = 18 58 45.3 h = normal MAG=4.5
	LmV	C 10.5	D = 16.6 $^\circ$ Az = 313.2 $^\circ$ (USCGS)
30.	LmH	C 21 17.5	<u>Luzon/Philippine Islands</u> (USCGS)
	LmV	C 17.5	
30.	LQ	C 23 07	<u>South Sandwich Island Region</u> (USCGS)
	LR	C 15	

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Day	Phase	h m s	Remarks
30.	eP	A 23 15 12.5	<u>Kurile Islands</u> 46.04 $^\circ$ N 153.11 $^\circ$ E
	e(pP)	A 15 36	H = 23 03 15.8 h = normal MAG=4.5
			D = 78.1 $^\circ$ Az = 336.1 $^\circ$ (USCGS); (h = 93 km)
			(pP)V:1.5s 13.4nm
31.	eiPn	A 02 19 30	<u>GFR</u> 50.4 $^\circ$ N 7.5 $^\circ$ E
	e(Pg)	A 19 36	H = 02 18 48 (BCIS) MAG=2.5 (BENSBERG)
	eiSn	A 19 58.5	D = 2.6 $^\circ$
	eSb	A 20 05.5	
	ei	A 20 08	
	eiSg	A 20 11.0	
31.	eiP	A 07 15 41	<u>Turkey</u> 40.6 $^\circ$ N 27.6 $^\circ$ E
	iS	A 18 30	H = 07 12 05.3 h = 14 km MAG=4.2 (USCGS)
	eLg1	B 20 12	D = 15.0 $^\circ$
	eRg	B 21 00	LmH:16s 0.7 μ m LmV:14s 0.4 μ m
	LmH	B 22	MLH=3.9 MLV=3.9
	LmV	B 22	e 15 59.5 e 17 10 e 17 47.5 i 17 55
			ei 19 04.5
31.	eiPKP	A 10 24 22	<u>Tonga Islands</u> 15.98 $^\circ$ S 174.32 $^\circ$ W
			H = 10 05 01.3 h = 151 km MAG=3.8
			D = 145.1 $^\circ$ Az = 353.4 $^\circ$ (USCGS)
			PV:0.8s 9.4nm
31.	eiSg	A 11 31 51	Near earthquake?
			TRIESTE gives: e(Sn) 31 15.7 e(Sg) 31 29.3
31.	iPg	A 13 06 11.5	<u>Explosion/GDR</u> 51 $^\circ$ 17.2'N 12 $^\circ$ 43.8'E
	iSg	A 06 26.5	D = 0.9 $^\circ$ Yield: 1.1 t
31.	e(P)	A 13 06 38.5	
31.	eP	A 17 12 37	<u>Near East Coast of Kamchatka</u>
			53.60 $^\circ$ N 160.36 $^\circ$ E
			H = 17 01 10.3 h = normal MAG=4.5
			D = 72.9 $^\circ$ Az = 339.8 $^\circ$ (USCGS)
			PV:0.8s 9.4nm
			MPV=5.0

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Day	Phase	h m s	Remarks
31.	ePKP2	A 23 09 20	<u>Macquarie Island Region</u> 60.0°S 159.1°E
	e(SS)	C 33.0	H = 22 48 35.6 h = normal MAG=5.2 (USCGS)
	eSS	C 33.8	D = 159.8°
	eSSS	C 38.6	LmH:20s 0.6 μ m LmV:20s 0.7 μ m
	LmH	B 00 33.2	MLH=5.3 MLV=5.5
	LmV	B 33.5	

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Day	Phase	h m s	Remarks
1.	eP	A 00 17 27	<u>Turkey</u> 40.8°N 30.4°E H = 00 13 34.5 h = normal MAG=4.5 (USCGS) D = 16.4°
1.	eSKS	C 01 37 52	<u>Near Coast of Peru</u> 13.00°S 76.78°W
	eSS	C 45.5	H = 01 13 42.6 h = 66 km MAG=5.5 (USCGS)
	LmH	C 02 03.0	D = 98.9°
	LmV	C 03.0	LmH:30s 0.9 μ m LmV:30s 0.8 μ m MLH=5.1 MLV=5.1
1.	e(Sg)	A 04 14 38.5	
1.	LmH	C 04 31	<u>Molucca Passage</u> (USCGS)
1.	e	A 06 46 48.5	
1.	e	A 09 26 26.5	<u>South of New Zealand</u> 59.95°S 159.17°E
	ePKP2	A 26 28	H = 09 05 49.3 h = normal MAG=5.5 (USCGS)
	epPKP2	A 26 39	D = 159.6° h = 39 km
	ePP	B 30(00)	PV2:1.9s 34.5nm PV3:2.0s 40.8nm
	eSS	C 50.2	LmH:19s 0.8 μ m LmV:20s 1.0 μ m
	eSSS	C 56.5	MLH=5.5 MLV=5.6
	LQ	C 10 11	AN USSR gives: South of Macquarie Island
	LmH	B 46.0	60.3°S 158.2°E
	LmV	B 50.3	H = 09 05 58 h = 64 km
1.	e(Sg)	A 11 36 17.5	
1.	iP	A 14 11 55.7	<u>Kurile Islands</u> 43.85°N 147.87°E H = 13 59 58.6 h = 52 km MAG=4.7 D = 78.5° Az = 333.3° (USCGS)
1.	iP	A 17 00 30.7	<u>Turkmen SSR</u> 39.73°N 53.33°E H = 16 54 14.6 h = normal MAG=4.5 D = 31.0° Az = 304.6° (USCGS) PV:0.9s 9.5 μ m MPV=4.7

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Day	Phase	h m s	Remarks	
1.	ePKP ePKP2	A A	19 37 47.5 38 21	South of Kermadec Islands 33.36°S 179.42°E H = 19 18 06.2 h = 228 km (USCGS) D = 161.0°
2.	-eP i	A A	00 56 21 56 22.2	Kurile Islands 44.56°N 146.42°E H = 00 44 41.4 h = 149 km MAG=5.0 D = 77.4° Az = 332.4° (USCGS) PV:1.3s 55.5nm MPV=5.1
2.	ei(P) e	A A	04 22 54.5 22 57	
2.	LmH LmV	B B	07 28.2 28.2	Taiwan 23.58°N 121.45°E H = 06 34 19.3 h = 40 km MAG=4.4 (USCGS) D = 83.7° LmH:13.5s 0.6/um LmV:14s 0.8/um MLH=5.1 MLV=5.2
2.	ePKIKP iPKHKP iPKP2	A A A	09 56 06.5 56 12.0 56 19.0	Fiji Islands Region 20.80°S 179.14°W H = 09 37 29.5 h = 592 km MAG=4.7 D = 149.0° Az = 346.6° (USCGS) PV2:1.3s 11.1nm
2.	eiPL +iP1 iP2 eS iSE iSN iSS eiLR LmH LmV	C A A C BC BC C C B B	11 11 36 11 36.5 11 38.0 15 35 15 44 15 47 16 21 17 00 22.1 22.1	Jan Mayen Island Region 71.22°N 7.98°W H = 11 06 38.7 h = normal MAG=5.0 D = 22.5° Az = 146.1° (USCGS) PLV:26s 3.1/um PLH:25s 3.8/um PV1:1.3s 128nm PV2:1.5s 266nm SN(B):13s 5.2/um SE(B):(24s 8.7/um) SN(C):20s 7.3/um SE(C):32s 13.3/um LmH:15s 9.3/um LmV:16.5s 8.0/um MPV1=5.2 MPV2=5.5 MLH=5.3 MLV=5.4 Compared to the Jan Mayen earthquake about 3 hours later, the first shock has clearly greater PL, S and surface waves, whereas short-period P-waves have larger amplitu- des in the second shock. This remarkable difference could be due to a greater focus depth of the second shock or possibly to a

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Day	Phase	h m s	Remarks	
cont. 2.			different time function of the source (compare Bath's remarks in the Bulletin of Seismological Institute Uppsala). S has clearly different onset times and periods in the long-period NS- and EW-components. The exceptionally long periods in the EW- components can be due to the superposition of S and LQ.	
2.	iPg iSg	A A	13 06 26.6 06 32.5	Explosion/GDR D = ca. 0.4°
2.	iSg	A	13 06 41	Explosion/GDR
2.	iSg	A	13 06 55	Explosion/GDR
2.	+iP eiPL i ei eS iSE iSN iSS eiLR LmH LmV	A C A A C BC BC C C B B	14 11 16.5 11 17 11 21.8 11 39 15 14 15 24 15 27 16 00 16 33 21.9 21.9	Jan Mayen Island Region 71.16°N 8.51°W H = 14 06 17.8 h = normal MAG=5.3 D = 22.6° Az = 145.2° (USCGS) PV:1.3s 455nm PH:1.4s 262nm PLH:21s 1.3/um SN(B):11s 2.6/um SE(B):(16s) 1.7/um SN(C):17s 2.9/um SE(C):28s 4.2/um LmH:13.5s 4.9/um LmV:15s 3.8/um MPV=5.8 MPH=5.7 MLH=5.1 MLV=5.1 See remarks given to the preceding Jan Mayen earthquake (August 2., H = 11 06 38.7).
2.	eP e	A A	15 37 16 37 20.5	Turkey 40.71°N 30.57°E H = 15 33 22.5 h = normal MAG=4.5 D = 16.5° Az = 313.3° (USCGS) PV:1.5s 10.0nm
2.	eP e	A A	18 30 46 31 23	Southern Sumatra 4.59°S 103.25°E H = 18 17 32.0 h = 83 km MAG=5.1 D = 94.6° Az = 320.3° (USCGS) PV:1.0s 9.5nm MPV=5.2

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Day	Phase	h m s	Remarks
3.	e(PKIKP) A	00 28 00	<u>Tonga Islands</u> 20.93°S 174.32°W
	e(PKHKP) A	28 04	H = 00 08 12.9 h = 43 km MAG=4.4
	ei(PKP2) A	28 11	D = 150.0° Az = 352.4° (USCGS)
	e A	28 16	PV2:1.8s 51.0nm PV3:1.5s 40.3nm
	LmH B	01 18.4	LmH:16s 0.2 μ m LmV:16s 0.4 μ m
	LmV B	18.4	MLH=5.0 MLV=5.2
3.	LmH B	00 43.8	<u>Southeast Spain</u> 37°4'N 174°W
	LmV B	44.5	H = 00 34 12 (BCIS) D = 15.9° LmH:12s 0.2 μ m LmV:10s 0.3 μ m MLH=3.6
3.	iPg A	07 59 40.5	<u>Explosion/GDR</u> 51°15.2'N 12°39.6'E
	i A	59 53.8	D = 0.8° Yield: 14 t
	iSg A	59 54.5	
3.	LmH B	08 02	<u>Santa Cruz Islands</u> 11.8°S 165.5°E
	LmV B	08.6	H = 06 43 24.7 h = 57 km MAG=4.7 (USCGS) D = 135.8° LmH:17s 0.5 μ m LmV:16s 0.6 μ m MLH=5.3 MLV=5.4
3.	e(Sg) A	10 55 23	Probably explosion.
	e A	55 28.5	KAŠPERSKÉ HORY gives: D = 1.5°
	eL A	55 48	
3.	eiPg A	13 00 23.5	Explosion
	ei A	00 38.5	D = ca. 1.2°
	iSg A	00 40.0	LmH:1.3s 59.2nm LmV:1.2s 56.0nm
	LmH A	00 50	
	LmV A	00 55	
3.	e A	13 05 04.5	
3.	e(P) A	16 34 54	
3.	e(Sg) A	18 18 02	<u>Austria</u> 47.7°N 16.0°E H = 18 15 52 (VIENNA) D = 4.2°

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Day	Phase	h m s	Remarks
3.	LmH C	20 02.1	<u>Ryukyu Islands</u> 27.8°N 128.0°E
	LmV C	09.0	H = 19 14 38.5 h = 93 km MAG=4.7 (USCGS) D = 83.8° LmH:17.5s 0.8 μ m LmV:16s 0.7 μ m MLH=5.2 MLV=5.1
3.	iP A	21 49 18.0	<u>Fox Islands/Aleutian Is.</u> 53.0°N 166.7°W
	LmH B	22 27.5	H = 21 37 26.7 h = 29 km MAG=4.6 (USCGS)
	LmV B	27.5	D = 76.6° PV:0.9s 14.2nm LmH:18s 0.4 μ m LmV:17s 0.3 μ m MPV=5.1 MLH=4.7 MLV=4.7
3.	epP A	23 29 24.5	<u>Fox Islands/Aleutian Is.</u> 53.78°N 170.05°W H = 23 17 08.4 h = 194 km MAG=4.9 (USCGS) D = 75.7°
4.	eP A	01 56 45	PV:1.2s 8.7nm
4.	eP A	06 11 04	<u>Central Mid-Atlantic Ridge</u> 7.37°N 36.28°W
	e(PoS) C	15 48	H = 06 01 09.9 h = normal MAG=5.0 (USCGS)
	eS C	19 08	D = 58.6°
	eSS C	22 40	PV:1.9s 17.7nm
	eLQ C	25 34	LmH:16s 0.5 μ m
	LmV C	28	MPV=4.9 MLH=4.7
4.	LmH B	28.6	
	+eP A	07 05 46.5	<u>Eastern Kazakh SSR</u> 50.0°N 78.0°E
	ePn A	07 19.5	H = 06 58 00 (BCIS)
4.	ePP A	07 24	D = 41.2° PV:0.7s 51.1nm PH:0.7s 30.2nm MPV=5.6 MPH=5.6 Underground explosion.
	e(Sg) A	09 54 16	(Sg)V:0.9s 9.4nm Explosion?
4.	eSg A	09 56 43	Explosion/probably ČSSR KAŠPERSKÉ HORY gives: D = 1.1°

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Day	Phase	h m s	Remarks
4.	eSg A	10 44 17.5	Explosion KAŠPERSKÉ HORY gives: $D = 1.1^{\circ}$
4.	eiSg A	12 44 37	<u>Explosion/GDR</u>
4.	e(Pg) A	12 45 18.5	<u>Explosion/GDR</u>
	ei(Sg) A	45 27	$D = \text{ca. } 0.6^{\circ}$
4.	ei A	12 45 48.5	<u>Explosion/GDR</u>
	ei(Sg) A	45 50	
4.	i(Sg) A	12 46 35	<u>Explosion/GDR</u>
	ei A	46 37.5	
4.	ePn A	14 56 39.5	<u>Adriatic Sea</u> $42.91^{\circ}\text{N } 17.73^{\circ}\text{E}$
	eiSn A	58 18.5	$H = 14 54 33.3$ $h = \text{normal}$ $\text{MAG}=4.4$
	eLg1 B	59 08	$D = 8.8^{\circ}$ $\text{Az} = 333.7^{\circ}$ (USCGS)
	e(Sg) A	59(17.5)	$\text{LmH}:10\text{s } 2.4/\mu\text{m}$ $\text{LmV}:9\text{s } 1.1/\mu\text{m}$
	LmH B	59.5	$\text{MLH}=4.3$
	LmV C	15 00.1	$i 56 41.2$ $ei 56 44$
4.	ePKP A	22 54 27.5	<u>Tonga Islands</u> $17.69^{\circ}\text{S } 173.16^{\circ}\text{W}$
	e(pPKP) A	54 37.5	$H = 22 34 47.7$ $h = \text{normal}$ $\text{MAG}=4.8$
	ei(sPKP) A	54 43.5	$D = 146.9^{\circ}$ $\text{Az} = 354.4^{\circ}$ (USCGS); $h = 36$ km
	LmH C	00 10.5	$\text{PV}1:1.8\text{s } 46.0\text{nm}$ $\text{PV}3:1.6\text{s } 53.1\text{nm}$
	LmV C	10.5	$\text{LmH}:16\text{s } 0.2/\mu\text{m}$ $\text{LmV}:16\text{s } 0.2/\mu\text{m}$
			$\text{MLH}=5.0$ $\text{MLV}=5.1$
5.	eP A	01 56 45.0	<u>Kurile Islands</u> $43.32^{\circ}\text{N } 147.53^{\circ}\text{E}$
	LmH C	02 29.0	$H = 01 44 43.2$ $h = \text{normal}$ $\text{MAG}=4.4$ (USCGS)
	LmV C	35	$D = 78.8^{\circ}$
5.	eiP A	05 41 24	<u>Kurile Islands</u> $43.33^{\circ}\text{N } 147.62^{\circ}\text{E}$
	e(pP) A	41 42.5	$H = 05 29 21.8$ $h = \text{normal}$ $\text{MAG}=4.8$
	e(sP) A	41 52	$D = 78.9^{\circ}$ $\text{Az} = 333.2^{\circ}$ (USCGS); ($h = 74$ km)
	LmH C	06 14.0	$\text{PV}:1.1\text{s } 10.7\text{nm}$
			$\text{LmH}:21\text{s } 0.5/\mu\text{m}$
			$\text{MPV}=4.9$ $\text{MLH}=4.8$

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Moxa

Day	Phase	h m s	Remarks
5.	e(P) A	07 44 22	
5.	e(Sg) A	13 11 05	Explosion?
	e A	11 14	
5.	ei A	12 02 21	
5.	e A	18 10 37	KAŠPERSKÉ HORY gives: ei Sg 09 53 PRUHONICE gives: eiPg 18 08 53
5.	e(P) A	22 59 49	
6.	ePKP A	05 05 16	<u>Fiji Islands Region</u> $20.73^{\circ}\text{S } 178.39^{\circ}\text{W}$ $H = 04 46 29.4$ $h = 536$ km $\text{MAG}=4.0$ $D = 149.1^{\circ}$ $\text{Az} = 347.6^{\circ}$ (USCGS)
6.	eP A	10 39 04.5	<u>Tadzhik-Sinkiang Border Region</u> $37.99^{\circ}\text{N } 74.52^{\circ}\text{E}$ $H = 10 31 06.3$ $h = 215$ km $\text{MAG}=4.8$ $D = 45.4^{\circ}$ $\text{Az} = 307.3^{\circ}$ (USCGS) $\text{PV}:1.1\text{s } 7.2\text{nm}$ $\text{MPV}=4.6$
6.	-eiPKP A	13 32 54.5	<u>Fiji Islands Region</u> $21.37^{\circ}\text{S } 179.54^{\circ}\text{W}$ $H = 13 14 08.7$ $h = 561$ km $\text{MAG}=4.2$ $D = 149.5^{\circ}$ $\text{Az} = 346.0^{\circ}$ (USCGS) $\text{PV}:0.7\text{s } 9.5\text{nm}$
6.	eP A	22 57 58.5	<u>Fox Islands/Aleutian Is.</u> $52.7^{\circ}\text{N } 168.4^{\circ}\text{W}$ $H = 22 46 08.1$ $h = 44$ km $\text{MAG}=4.3$ (USCGS) $D = 77.0^{\circ}$
7.	e(Sg) A	04 32 44	Near earthquake.
	e A	32 51.5	(Sg)V:1.0s 9.5nm TRIESTE gives: e 04 30 40 i(Sg) 30 51.2
7.	eiP A	05 57 46	<u>Afghanistan-USSR Border Region</u>
	e A	59(33)	$36.48^{\circ}\text{N } 71.24^{\circ}\text{E}$ $H = 05 49 57.5$ $h = 229$ km $\text{MAG}=5.0$ $D = 44.3^{\circ}$ $\text{Az} = 308.1^{\circ}$ (USCGS)

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Day	Phase	h m s	Remarks
7.	iPg	A 06 53 21	Explosion
	e(Sg)	A 53 38.5	
7.	iPg	A 09 05 42.3	<u>Explosion/GDR</u> D = 16 km SgV:0.5s 268nm
	iSg	A 05 44.3	
7.	e(P)	A 10 06 24	(P)V:1.8s 20.4nm
7.	ei(Sg)	A 11 24 49	Explosion
	e	A 24 51	
	eL	A 24 54	
7.	eP	A 11 25 54	<u>Alaska Peninsula</u> 58.7°N 154.6°W H = 11 14 42.7 h = 37 km MAG=5.1 (USCGS) D = 70.3° LmH:16s 0.3/um LmV:16s 0.2/um MLH=4.7 MLV=4.5
	LmV	C 12 01.5	
	LmH	C 04.5	
7.	i(Pg)	A 11 28 37.5	Explosion LmH:1.6s 49.2nm LmV:1.3s 30.6nm
	eiL	A 28 49	
	LmH	A 28 52	
	LmV	A 28 54	
7.	eP	A 11 47 13	PV:1.3s 13.9nm
7.	LmV	C 12 01.5	<u>Alaska Peninsula</u> 58.7°N 154.6°W H = 11 14 42.7 h = 37 km MAG=5.1 (USCGS) D = 70.4° LmH:16s 0.3/um LmV:16s 0.2/um MLH=4.7 MLV=4.5
	LmH	C 04.5	
7.	i(Sg)	A 14 56 17.5	Explosion
	eL	A 56 21	
7.	eiPKP2	A 17 27 32	<u>Kermadec Islands Region</u> 29.36°S 177.38°W H = 17 07 20.1 h = 147 km MAG=4.8 (USCGS) D = 158.0°

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Day	Phase	h m s	Remarks
8.	ePKP	A 07 32 32	<u>Fiji Islands Region</u> 17.47°S 179.04°W H = 07 13 50.8 h = 523 km MAG=4.4 D = 145.8° Az = 347.9° (USCGS)
8.	LmH	C 11 58	Traces.
8.	ePg	A 14 24 21	Explosion D = ca. 0.6° LmH:1.4s 104nm LmV:1.4s 101nm
	iSg	A 24 30	
	eL	A 24 35	
	LmH	A 24 45	
8.	LmH	C 15 41	Traces; Off Coast of Mexico (USCGS)
	LmV	C 41	
8.	eP	A 16 18 13.5	<u>Near East Coast of Honshu/Japan</u> 37.16°N 141.06°E H = 16 05 59.1 h = 54 km MAG=3.9 D = 81.9° Az = 330.2° (USCGS)
	e	A 18 34	
9.	eP	A 00 37 25	<u>Turkey</u> 37.06°N 28.80°E H = 00 33 11.8 h = normal MAG=4.2 D = 18.3° Az = 323.2° (USCGS) PV1:2.0s 29.8nm PV2:1.8s 25.0nm
	e	A 37 30.5	
9.	ePKIKP	A 08 38 32.5	<u>Banda Sea</u> 6.40°S 130.41°E H = 08 20 03.7 h = 89 km MAG=5.7 D = 113.0° Az = 322.7° PPV:1.0s 9.5nm MPPV=5.2
	epPKIKP	A 38 53	
	ePP	A 39 23	
	e(S)	C 46 48	
	e(SPP)	C 49 16	
	e(SSS)	C 59.0	
	eLQ	C 09 05.8	
	i	A 12 58 00	
9.	eiSg	A 58 04.7	<u>Explosion/GDR</u>
	iL	A 58 07.5	
9.	iSg	A 12 58 54	<u>Explosion/GDR</u>
	iL	A 58 57.0	

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Day	Phase	h m s	Remarks		
9.	eiP	A 13 36 45	<u>Colorado</u> 39.88°N 104.73°W H = 13 25 06.2 h = 5 km MAG=5.3 D = 74.0° Az = 36.4° (USCGS) PV:1.5s 23.4nm LmH:19s 0.3 μ m LmV:19s 0.2 μ m MPV=5.1 MLH=4.6 MLV=4.5		
	LmV	C 14 07.5			
	LmH	C 08.4			
9.	eSg	A 21 01 17	<u>Vallis/Switzerland</u> 46.4°N 7.4°E H = 20 58 34 (BCIS) D = 5.1°		
	e	A 01 21			
10.	LmH	C 05 22.5	<u>Off Coast of Southern Chile</u> 45.0°S 79.5°W H = 04 20 27.8 h = 33 km MAG=5.0 (USCGS) D = 123.4° LmH:35s 0.3 μ m LmV:35s 0.2 μ m MLH=4.6 MLV=4.5		
	LmV	C 22.5			
10.	iPg	A 09 40 28.5	Explosion D = ca. 1.2°		
	i	A 40 43.5			
	iSg	A 40 44.5			
10.	ei(Sg)	A 11 14 30	Explosion? (Sg)V:1.0s 16.6nm		
10.	+iP	A 11 33 17.8	<u>Kurile Islands</u> 45.37°N 150.30°E H = 11 21 22.3 h = 37 km MAG=5.7 D = 77.9° Az = 334.5° (USCGS); h = 53 km PV:1.3s 94.5nm XV:1.4s 49.1nm PcPV:1.2s 30.6nm LmH:22s 3.1 μ m LmV:22s 3.0 μ m MPV=5.8 MLH=5.6 MLV=5.6 i 33 38.8 e 48(56) X is a very clear unidentified phase. It seems possible to interpret this phase as P converted in S at the base of the crust.		
	eiX	A 33 22			
	ePcP	A 33 28.5			
	epP	A 33 32			
	ePP	A 36 23.5			
	eS	C 43 00			
	ePS	C 43(40)			
	LmH	C 12 10.5			
	LmV	C 10.6			
	10.	e		A 11 49 27	Explosion? e 49 43 e 49 46
		e		A 49 59	
ei		A 50 09.5			

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Moxa

Day	Phase	h m s	Remarks
10.	e(P)	A 13 01 05.5	(P)V:0.8s 9.4nm
10.	iSg	A 13 39 13.0	Explosion KASPERSKE HORY gives: D = 1.1° ePg 13 38 47 iSg 39 02
10.	e(P)	A 16 01 29.5	(P)V:0.8s 11.8nm
11.	ei(P)	A 01 20 15.5	(P)V:1.0s 14.4nm
11.	e(Sg)	A 06 57 11	Explosion?
11.	e	A 12 49 53	Explosion
	i(Sg)	A 49 56	
	i	A 50 03.7	
11.	LmH	C 13 16.4	<u>Nicaragua</u> 11.81°N 85.88°W H = 12 26 18.3 h = 21 km MAG=4.7 (USCGS) D = 85.7° LmH:18s 0.5 μ m LmV:18s 0.3 μ m MLH=5.0 MLV=4.8
	LmV	C 25.0	
11.	i(Sg)	A 17 31 29	Explosion (Sg)V:0.6s 64.3nm
11.	i	A 19 08 29.0	
	e	A 08 58	
	i	A 09 19	
11.	iPP	A 19 11 39.8	<u>Volcano Islands</u> 22.1°N 144.0°E H = 18 54 28.8 h = 125 km MAG=5.3 (USCGS) D = 96.3° h = 130 km
	epPP	A 12 11	
12.	eP	A 04 42 49	<u>Near East Coast of Honshu/Japan</u> 38.53°N 141.91°E H = 04 30 38.5 h = 53 km MAG=5.4 D = 81.1° Az = 330.6° (USCGS) PV:1.2s 25.5nm MPV=5.2
	e	A 42 56	
	e	A 45 46	
	ePP	A 45 52	

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Day	Phase	h m s	Remarks
12.	eiSg	A 08 59 55.5	Near earthquake?
12.	+iPKIKP	AB 09 59 19	<u>South of Fiji Islands</u> 24.71°S 177.47°W H = 09 39 44.3 h = 134 km MAG=5.8 D = 153.2° Az = 347.1° (USCGS) PV1(B):6s 2.0/um PV2:5s 1.8/um PV3:5.5s 2.5/um (sPKP)V:8s 3.8/um PPV:9.5s 5.2/um (pPP)V:10s 4.7/um SKKSH:10s 5.5/um SKSPV:14.5s 5.4/um PSKSH:14s 2.8/um RH:55s 32.8/um RV:55s 32.4/um MPPV=6.6 ei 00 04 e 00 12 e 03 34 i 06 30 PP2 is the PP travelled along the farther path to our station (D2 = 360° - D). Very clear R-waves are registered. The G-waves (LQ) have amplitudes 3 times smaller than R-waves and do not show such a sharp beginning. PKP-phases in the short-period registrations are very complex and not typical for PKP-registrations of deep earthquakes of this region at our station.
	+iPKHKP	B 59 26.5	
	-iPKP2	B 59 40	
	e(pPKP)	B 59 54	
	i(sPKP)	B 10 00 07	
	iSKP	B 02 37.5	
	-iPP	B 03 12	
	ei(pPP)	B 03 39	
	iPP2	B 07 31	
	eiSKKS	B 09 50	
	eSKKKS	B 10 32	
	iSKSP	B 13 06	
	iPSKS	B 13 26	
	iSPP	B 16 00	
	eiSSP	B 23 28	
	eSSS	C 28 22	
	eiLQ	C 43.0	
	iR	C 52.0	
12.	+iP	A 10 52 12.0	<u>Near East Coast of Kamchatka</u>
	e	A 52 24.5	53.71°N 160.36°E
	eiPcP	A 52 30	H = 10 40 43.9 h = 25 km MAG=5.0 D = 72.7° Az = 339.8° (USCGS) PV:1.0s 28.5nm MPV=5.4
12.	e(Sg)	A 11 15 49	<u>Explosion/CSSR</u> 50°47.4'N 14°31.5'E
	ei	A 15 52.5	(PRUHONICE)
	e	A 15 57	D = 1.8° Yield: 8.9 t (PRUHONICE)
12.	ePKIKP	A 12 50 23	<u>New Hebrides Islands</u> 14.85°S 166.67°E
	LmH	C 13 55.8	H = 12 30 56.1 h = 23 km MAG=5.2 (USCGS)
	LmV	C 55.8	D = 139.1° PV:1.6s 22.8nm LmH:21s 0.9/um LmV:21s 0.8/um MLH=5.5 MLV=5.4

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Day	Phase	h m s	Remarks
12.	eP	A 17 03 35.5	<u>Turkey</u> 41.03°N 34.26°E
	LmH	C 11.5	H = 16 59 21.1 h = normal MAG=4.4 D = 18.4° Az = 309.1° (USCGS) PV:1.5s 20.1nm LmH:19s 0.2/um MLH=3.4
12.	iP	A 23 02 35.3	<u>Afghanistan-USSR Border Region</u>
	ei	A 02 39	37.04°N 71.37°E
	epP	A 02 57	H = 22 54 38.6 h = 121 km MAG=5.1
	e	A 05 10	D = 44.0° Az = 307.7° (USCGS); h = 100 km pPV:1.3s 16.7nm
13.	eiPKP	A 05 34 41	<u>Tonga Islands</u> 18.32°S 174.01°W
	e	A 35 02.5	H = 05 14 57.9 h = 25 km MAG=4.5 D = 147.4° Az = 352.3° (USCGS) PV:1.0s 4.7nm
13.	ePP	C 16 51 10	<u>South of Africa</u> 50.88°S 29.07°E
	eSKS	C 57 38	H = 16 33 04.0 h = normal MAG=5.4 (USCGS)
	ePS	C 17 00 22	D = 102.3°
	e	C 02 20	LmH:16.5s 1.8/um LmV:18s 1.5/um
	eSS	C 05 40	MLH=5.7 MLV=5.6
	LQ	C 17	
	iR	C 20.8	
	LmH	C 39.2	
	LmV	C 39.3	
13.	epPKP	A 17 13 51	<u>New Britain Region</u> 4.33°S 152.47°E
	ePP	A 15(25)	H = 16 54 45.7 h = 25 km MAG=5.0 (USCGS)
	e	A 15 30	D = 123.4°
	e	A 15 42	
13.	+iP	A 20 18 28.0	<u>Southern Honshu/Japan</u> 35.29°N 135.31°E
	+e(pP)	B 19 50	H = 20 06 50.6 h = 357 km MAG=6.0
	+ipP	A 19 51.7	D = 81.1° Az = 327.6° (USCGS); h = 370 km
	eiPP	A 21 38	PV:2.0s 880nm PH:2.0s 335nm
	epPP	B 22(46)	PPV:2.7s 1680nm PPH:2.8s 896nm
	ePa	B 24 50	SH:9s 4.5/um

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Day	Phase	h m s	Remarks
cont.			
13.	eiS C	20 28 00	MPV=6.2 MPH=6.1 MPPV=6.7 MPPH=6.6
	iS B	28 06	MSH=6.0
	iSP B	28 50	i 19 54.5 i 31 30 e 39 12 e 44 50
	i(pS) C	29 50	e 47 50
	esS C	30 22	
	eiSS C	33 28	
	iSSS C	36 58	
	eiSa C	39 28	
	eiPKPKP A	44 59	
	eSKPKP A	47 54	
13.	-eP1 A	22 10 29	<u>Pyrenees</u> 43.17°N 0.54°W
	eP2 A	10 39	H = 22 07 47.5 h = 15 km MAG=5.3
	eS B	12 40	D = 11.2° Az = 43.8° (USCGS)
	i(S) A	12 47.0	LmH:7.5s 25.4/um LmV:10s 18.6/um
	eSS B	12 54	MLH=5.6
	iLi(3.71)A	13 20.5	i 13 58 i 15 06
	iLg2(3.38)B	13 52	The clear phase, interpreted as P2 is
	LmH C	15.2	following P1 after 10s (also at the Swe-
	LmV C	15.2	dish stations. See bulletin of Seismologi-
			cal Institute Uppsala). It is probably the
			P of a second shock in the same focus.
13.	ePKP A	22 34 12	<u>New Britain Region</u> 4.37°S 152.51°E
	ePP A	36 00	H = 22 15 09.6 h = 29 km MAG=5.3
	e A	36 05.5	D = 123.4° Az = 331.2° (USCGS)
	ePS C	45 40	LmH:18s 3.2/um LmV:18s 3.8/um
	ePPS C	47 12	MLH=6.0 MLV=6.1
	ei(PKKS) C	48 00	
	eSS C	52 38	
	LQ C	06	
	LR C	12.3	
	LmH B	37.8	
	LmV B	37.8	
13.	eP A	23 54 23.5	<u>Ascension Island Region</u> 6.96°S 12.57°W
	epP A	54 31.5	H = 23 44 11.1 h = 28 km MAG=5.0 (USCGS)
	e A	54 39.5	D = 61.2° h = 30 km

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Day	Phase	h m s	Remarks
cont.			
13.	e A	23 54 45	PV:1.2s 17.9nm
	LmH B	00 15.5	LmH:26s 2.8/um
	LmV B	17	MPV=5.1 MLH=5.3
			Multiple P-phases.
14.	iPn A	10 17 15.2	<u>Northern Italy</u> 46.87°N 10.41°E
	iPb A	17 22.5	H = 10 16 18.1 h = 20 km MAG=4.3
	ePg A	17 31	D = 3.9° Az = 11.5° (USCGS)
	iSn A	18 01	PnV:0.6s 76.1nm
	iSg A	18 22	i 17 50 i 18 11
	LmH B	18.5	
14.	iP A	12 56 37.0	<u>Mexico</u> 17.3°N 94.6°W
			H = 12 44 04.7 h = 120 km MAG=4.5 (USCGS)
			D = 86.6°
14.	e(Sg) A	16 05 19	Probably explosion.
	e A	05 22	
	e A	05 24	
14.	e A	16 49 05	Near earthquake?
	e A	49 36	
	e(Sg) A	49 56.5	
	eL A	50 04	
14.	eP A	20 13 16	<u>Turkey</u> 40.70°N 30.53°E
	LmH B	21.1	H = 20 09 25.8 h = normal MAG=4.7
	LmV B	21.3	D = 16.5° Az = 313.4° (USCGS)
15.	LmH C	04 00.0	<u>North Atlantic Ocean</u> 19.19°N 68.50°W
			H = 03 23 52.3 h = 39 km MAG=4.9 (USCGS)
			D = 69.2°
			LmH:23s 0.4/um
			MLH=4.5
15.	eP1 A	04 39 23	<u>Mediterranean Sea</u> 36.52°N 19.35°E
	eP2 A	39 32	H = 04 35 53.3 h = normal MAG=4.5
	+iP2 A	39 32.6	D = 15.2° Az = 340.9° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
15.	LmH C	04 45.6	PV1:0.8s 18.9nm PV2:1.1s 77.0nm Multiple P, the second onset much greater than the first one. Probably a double shock.
15.	eP A	07 09 26.5	<u>Sicily</u> 38.85°N 15.00°E
	e A	09 41.5	H = 07 06 35.5 h = normal MAG=4.5
	e A	09 48	D = 12.0° Az = 349.6° (USCGS)
	e A	09 58.5	PV:0.9s 23.6nm
	e(SS) C	12 14	LmH:16s 3.2/um
	LmH C	13.9	MLH=4.4
15.	eP A	07 48 18	<u>Hindu Kush Region</u> 36.29°N 70.16°E H = 07 40 28.7 h = 189 km MAG=4.7 (USCGS) D = 43.7°
15.	eIP1 A	09 31 20.4	<u>Tibet</u> 31.09°N 93.66°E
	eP2 A	31 23.5	H = 09 21 02.3 h = normal MAG=5.7
	ePcP A	32 05	D = 61.8° Az = 314.3° (USCGS)
	ePP A	33 37.5	PV1:1.8s 51.0nm PV2:1.9s 153.0nm
	eS B	39 44	LmH:20s 1.7/um LmV:15s 1.7/um
	LQ C	50.5	MPV1=5.4 MPV2=5.8 MLH=5.2 MLV=5.4
	LmH C	55.7	e 33 53 e 34 04
	LmV B	10 00.2	P is multiple. Probably a double shock, the second is stronger than the first one.
15.	e(P) A	11 29 54	Near earthquake.
	LmH C	34.4	TRIESTE gives: D = 785 km LmH:16s 0.4/um
15.	iPg A	11 34 42.5	Explosion
	iSg A	34 43.5	D = 8 km SgV:0.4s 462nm
15.	iPg A	12 49 44.5	Explosion
	iSg A	49 50	
	iL A	49 53	

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Day	Phase	h m s	Remarks
15.	eP A	15 47 29	<u>E. Russia - N. E. China Border Region</u>
	e A	47 43	44.76°N 132.38°E
	LmH B	16 17.3	H = 15 36 06.6 h = normal MAG=5.3
	LmV B	22	D = 72.0° Az = 324.9° (USCGS) PV:1.4s 30.7nm LmH:14s 0.85/um LmV:12s 0.5/um MPV=5.2 MLH=5.2 MLV=5.0
16.	ePn A	00 04 47.5	Near earthquake.
	ePg A	05 06	Probably Julian Alps 46 1/2°N 13 1/3°E (MOXA)
	eSn A	05 35	D = 4.2°
	eSg A	05 59	
16.	e(Sg) A	07 29 23	Near earthquake.
	e A	29 31	TRIESTE gives: D = 20 km
16.	e A	09 04 57	Traces
16.	e(Sg) A	11 41 46.5	Probably explosion.
	e A	41 53	
16.	iSg A	12 51 58.0	<u>Explosion/GDR</u>
	i A	51 59.5	
16.	eL A	12 52 16.5	<u>Explosion/GDR</u>
16.	eSg A	13 15 17	Explosion?
	e A	15 29	
17.	e(Sg) A	11 23 42	Near earthquake?
	e A	23 48	
	e A	24 00	
	e A	24 09	
17.	iSg A	12 03 10.0	Probably explosion.
	eL A	03 13	
17.	e A	12 59 03	<u>Central Mid-Atlantic Ridge</u> 0.78°S 21.15°W
	e A	59 40	H = 12 49 08.9 h = 40 km MAG=4.5
	e(PcP) A	59 57.5	D = 58.3° Az = 23.9° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
17.	eS B	13 07 00	LmH:14s 0.5/um LmV:16s 0.6/um
	eS C	07 10	MLH=4.8 MLV=4.8
	eSS C	11.0	
	eIQ C	14.2	
	LmH B	24.5	
	LmV B	27.0	
17.	e(Sg) A	14 00 40	Explosion?
	eL A	00 56.5	e 00 48 e 01 06
17.	e A	14 44 28.5	<u>South Sandwich Islands Region</u>
	LmH C	21 32	60.3°S 27.0°W
	LmV C	33	H = 20 28 33.7 h = 98 km MAG=5.2 (USCGS) D = 114.6° LmH:20s 0.2/um MLH=4.7
17.	iP A	22 53 13.5	<u>Kenai Peninsula/Alaska</u> 59.41°N 151.43°W
	epP A	53 26	H = 22 42 09.3 h = 55 km MAG=5.0 D = 69.4° Az = 11.4° (USCGS); h = 50 km PV:1.2s 23nm pPV:1.5s 36.9nm MPV=5.1
18.	+iP A	03 48 00.2	<u>Ryukyu Islands</u> 27.77°N 127.65°E
	LmH C	04 22.0	H = 03 35 40.5 h = 94 km MAG=5.4 D = 83.7° Az = 324.9° (USCGS) LmH:24s 0.4/um MLH=4.7 AN USSR gives: h = normal
18.	eiP A	06 01 24	<u>Southern Alaska</u> 61.53°N 151.01°W
	ipP A	01 30.0	H = 05 50 29.0 h = 19 km MAG=4.5
	esP A	01 32.5	D = 67.3° Az = 11.9° (USCGS); h = 23 km
	ei A	01 44	PV:1.0s 21.3nm pPV:1.1s 43.2nm MPV=5.3
18.	ei(Sg) A	07 33 31	Probably explosion.
	eL A	33 43	

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Day	Phase	h m s	Remarks
18.	ei(Sg) A	10 33 01.5	Near earthquake?
	i A	33 04.0	e 33 19
	eL A	33 13	
18.	eiSn A	12 04 30	<u>Austria-Italy-Switzerland Border Region</u>
	eSb A	04 46	46.8°N 10.5°E
	eSg A	04 55	H = 12 02 45 (BCIS) D = 3.9°
18.	ei(Pg) A	12 54 05.5	<u>Explosion/GDR</u>
	iSg A	54 11.0	
	eiL A	54 13	
18.	iSg A	12 54 19	<u>Explosion/GDR</u>
	eL A	54 21	
18.	ei A	12 54 50	<u>Explosion/GDR</u>
	eL A	54 52.5	
18.	e A	12 55 21.5	<u>Explosion/GDR</u>
	eiL A	55 24.5	
18.	ei A	14 11 23.5	
18.	(iQ) C	15 28.7	Traces
	LmH C	36.5	LmH:14s 0.1/um LmV:14s 0.2/um
	LmV C	36.5	
18.	(iQ) C	16 08.3	Traces
	LmH C	17.0	LmH:13s 0.4/um LmV:13s 0.5/um
	LmV C	17.0	
19.	eP A	01 42 41	<u>Afghanistan-USSR Border Region</u>
			36.90°N 71.51°E
			H = -01 34 43.5 h = 127 km MAG=4.9 (USCGS) D = 44.1°
19.	eP A	07 47 06.5	
	i A	47 30.0	

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Day	Phase	h m s	Remarks
19.	ei(P)	A 09 12 47.5	
19.	e(P)	A 10 22 08	
19.	iP	A 11 54 50.2	
19.	eP	A 12 26 25	<u>Off East Coast of Honshu/Japan</u>
	epP	A 26 37.5	40.77°N 143.49°E
	e	A 26 53.5	H = 12 14 21.7 h = 45 km MAG=4.8 (USCGS)
	LmH	C 13 05.0	D = 79.7° h = 45 km
	LmV	C 05.0	LmH:19s 0.3 μ m LmV:20s 0.3 μ m MLH=4.7 MLV=4.7
19.	+eP	A 15 41 34	<u>Philippine Islands Region</u> 10.41°N 125.97°E
	+iP	B 41 35	H = 15 28 08.5 h = 58 km MAG=5.6
	+iP	C 41 37	D = 96.2° Az = 324.3° (USCGS); h = 50 km
	epP	A 41 47	LmV:19s 5.0 μ m
	ePP	B 45 31	MLV=6.0
	ePP	A 45 33.5	
	eSKS	C 52 16	
	eS	C 52 54	
	eSP	C 54 08	
	eSPP	C 54 44	
	eSS	C 59 30	
	LmH	C 16 21.8	
	LmV	B 30.5	
19.	eiPKIKP	A 16 01 06	<u>Santa Cruz Islands</u> 12.41°S 166.64°E
	-iPKIKP	A 01 07.2	H = 15 41 53.3 h = 86 km MAG=5.4
	epPKIKP	A 01 30	D = 136.8° Az = 336.9° (USCGS); h = 87 km
	ePP	A 03 51.5	ei 01 15.5 i 01 46.5
	epPP	A 04 13	
	eSKP	A 04 33	
20.	LmH	C 00 09.3	Traces. Szechwan Prov./China (USCGS)
	LmV	C (13)	

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Day	Phase	h m s	Remarks
20.	eP	A 00 18 52.5	<u>Alaska Peninsula</u> 58.07°N 156.48°W H = 00 07 46.0 h = 127 km MAG=4.8 D = 71.2° Az = 8.0° (USCGS) AN USSR gives: Kodiak Island Region 56.5°N 154.8°W H = 00 07 24 h = normal D = 72.6°
20.	iP1	A 02 10 20.0	<u>Kazakh-Sinkiang Border Region</u>
	-eiP2	A 10 21.2	45.32°N 80.14°E
	iP	A 10 29.3	H = 02 02 05.2 h = normal MAG=5.1
	ePP	A 12 21.5	D = 44.7° Az = 302.6° (USCGS); h = 36 km
	eScP	A 15 50.5	PV2:1.3s 72.2nm
	eS	C 16 52	LmH:18s 5.3 μ m LmV:12s 3.5 μ m
	eScS	C 20 16	MPV2=5.5 MLH=5.5 MLV=5.6
	eiL(3.87)B	23 30	i 10 37.5 i 10 46.0 e 11 57 e 12 11.5
	ei(L1)	B 24 32	e 14 37 e 15 29 e 22 32
	eI(3.57)B	25 18	Multiple P. P1 is much smaller than P2.
	eI _g 1(3.49)B	25 50	The first onset of P, which must be 3.5 s
	LmH	C 26.2	earlier than our P1, is not detectable in
	LmV	B 29.5	our records. Bath gives the first P-onset
			of Swedish stations 4 - 5 s before a se-
			cond and much stronger phase, which would
			be correspond to our P2-onset. Probably a
			double shock in the same focus. Clearly
			developed higher-mode surface waves.
20.	i(P)	A 02 17 17.0	
20.	i(P)	A 02 20 17.5	
20.	i(P)	A 02 21 56.0	
20.	e(P)	A 06 41 43	
20.	eP	A 07 36 47.5	<u>Komandorsky Islands Region</u> 55.81°N 164.20°E H = 07 25 29.9 h = 46 km MAG=4.8 (USCGS) D = 71.3° PV:1.0s 7.1nm MPV=4.8

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Day	Phase	h m s	Remarks
20.	e	A 10 09 52	Near earthquake.
	e	A 10 20	TRIESTE gives: D = 370 km ePn 10 06 49
	e	A 10 24	eiSn 07 28 iSg 07 46
	iL	A 10 40.2	
20.	e	A 12 38 36	<u>Explosion/GDR</u>
	e(Sg)	A 38 40	
	iL	A 38 44	
20.	e(Sg)	A 12 39 05	<u>Explosion/GDR</u>
	iL	A 39 08	
20.	e	A 14 55 53	Near earthquake.
	e	A 57 33	TRIESTE gives: D = 380 km eiPn 14 53 43.8
	eL	A 58 35	iSn 55 56.5 iSg 55 41.5
20.	iP	A 15 17 25	<u>Chile</u> 25.2°S 69.0°W
	ePP	A 21 48	H = 15 03 36.2 h = 109 km MAG=5.6 (USCGS)
	epPP	A 22 13	D = 103.5°
	eSKS	C 28 00	e 21 36 e 22 04
	eSS	C 36.3	
	LmH	C 16 02	
	LmV	C 02	
20.	eP	A 17 29 33	<u>Tsinghai Prov./China</u> 37.13°N 95.75°E
	e(pP)	A 29 38	H = 17 19 35.0 h = normal MAG=4.5 (USCGS) D = 58.9° (h = 20 km)
20.	ePS	C 20 27 46	<u>Northern Easter I. Cordillera</u>
	eSS	C 34.2	8.85°S 108.3°W
	LmH	C 21 06.2	H = 19 58 22.1 h = normal MAG=4.9 (USCGS)
	LmV	C 06.2	D = 115.5° LmH:19s 0.5 μ m LmV:19s 0.4 μ m MLH=5.2 MLV=5.0
21.	+iP	AB 07 45 26.2	<u>Off W. Coast of Northern Sumatra</u>
	i(pP)	A 45 39.5	3.64°N 95.76°E
	i(sP)	A 45 45	H = 07 33 00.6 h = normal MAG=5.9
	eiPP	A 48 40.5	D = 83.5° Az = 320.4° (USCGS); (h = 50 km)

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Day	Phase	h m s	Remarks
cont.			
21.	+iPP	B 07 48 42.5	PV(A):2.0s 380nm PV(B):10s 4.9 μ m
	iS	B 55 44	PPV(B):10s 1.7 μ m SH(B):12s 7.2 μ m
	iS	C 55 45	LmH:18s 14.5 μ m LmV:18s 20 μ m
	i(sS)	B 56 00	MPV(A)=6.2 MPV(B)=6.6 MPPV=6.4 MSH=6.7
	i(sS)	C 56 04	MLH=6.4 MLV=6.6
	iPS	C 56 44	
	eSS	C 08 01 15	
	eSSS	C 04 30	
	eiLQ	C 08.1	
	LmH	B 29.3	
	LmV	B 29.3	
21.	iSg	A 12 44 39.5	Explosion
	eL	A 44 43	PRUHONICE gives: D = 1.2°
21.	ePn	A 13 43 38	<u>North Sea</u> 56.99°N 4.94°E
	eiPx	A 43 42	H = 13 41 48.8 h = normal MAG=4.2
	eSn	A 45 02	D = 7.5° Az = 145.5° (USCGS)
	i(Sb)	A 45 28.0	LmH:12s 0.2 μ m LmV:14s 0.2 μ m
	iLi	B 45 36	MLH=3.0
	LmH	C 47.9	i 45 11.5 i 45 14.0
	LmV	C 47.9	
21.	e(Sg)	A 16 37 16	Explosion?
	e	A 37 18	
	eL	A 37 27	
22.	ePP	A 09 13 38.5	<u>Near Coast of Northern Chile</u>
	eSKS	C 20(20)	19.70°S 70.70°W
	ePS	C 22(45)	H = 08 55 54.6 h = 46 km MAG=4.8 (USCGS)
	LmH	C 51.3	D = 100.3°
	LmV	C 51.3	PPV:1.8s 20.4nm LmH:20s 0.7 μ m LmV:18s 0.7 μ m MPPV=5.4 MLH=5.4 MLV=5.2
22.	e	A 11 25 38	
22.	e	A 11 39 18	Explosion?
	e	A 39 33.5	

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Day	Phase	h m s	Remarks
22.	eP C	13 16 56	<u>South Sandwich Islands Region</u>
	ePKIKP A	20 43.5	60.83°S 24.58°W
	eiPP B	21 38	H = 13 02 06.8 h = normal MAG=6.1
	eiPP A	21 40	D = 114.9° Az = 24.5° (USCGS); h = 35 km
	i(pPP) A	21 50.2	PPV(B):7.5s 2.7/um PPH(B):8s 1.0/um
	eSKS C	27 32	SPV(B):16s 3.6/um SSH:36s 20/um
	eSKKS B	28 39	LmH:18s 25.6/um LmV:17.5s 31.5/um
	eS C	29(32)	MPPV=7.1 MPPH=6.8 MLH=6.9 MLV=7.0
	iS C	29 40	i 31 25.8 i 32 48
	eSP C	31 24	
	iSP B	31 29	
	iPKKP A	31 31.0	
	eipPKKP A	31 41	
	eiPPS C	32 40	
	eSKKP A	35 19	
	e(SS) C	37.4	
	iSS C	37 40	
	eiSSS C	41.6	
	LmH B	14 07.3	
LmV B	07.3		
22.	ePKIKP A	13 35 37	<u>South Sandwich Islands</u> 60.9°S 23.2°W
	ePP A	36 35	H = 13 17 02.5 h = 19 km MAG=5.9 (USCGS) D = 114.5°
22.	eiSg A	14 58 21.5	Explosion
	eL A	58 24.5	
22.	eiP A	23 21 51	<u>Lake Baikal Region</u> 56.24°N 112.57°E
	epP A	21 57	H = 23 12 18.9 h = 22 km MAG=5.0
	eS C	29.6	D = 55.1° Az = 310.3° (USCGS); h = 24 km
	e C	34.0	PV:1.0s 30.8nm
	LmH B	47.6	LmH:14s 0.9/um LmV:15s 0.9/um
LmV B	47.6	MPV=5.4 MLH=5.0 MLV=5.0	
23.	LmH C	01 05	<u>Off Coast of Northern Chile</u> 19.69°S 70.96°W
	LmV C	05	H = 00 09 26.0 h = 29 km MAG=4.6 (USCGS) D = 100.4° LmH:20s 0.2/um LmV:20s 0.2/um MLH=4.6 MLV=4.6

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Day	Phase	h m s	Remarks
23.	LmH C	02 42	Traces
23.	LmH C	05 34.7	<u>South Sandwich Islands Region</u>
	LmV C	34.7	54.44°S 22.41°W H = 04 19 32.8 h = normal MAG=4.5 (USCGS) D = 108.4° LmH:14s 0.2/um LmV:15s 0.2/um MLH=4.8 MLV=4.7
23.	eP A	09 35 22.5	<u>Near Coast of Northern Peru</u> 4.29°S 81.46°W
	e A	38 37	H = 09 21 59.4 h = normal MAG=5.0
	eSKS C	46.0	D = 95.2° Az = 39.7° (USCGS)
	eS C	46.7	LmH:20s 0.4/um LmV:22s 0.4/um
	ePS C	48.0	MLH=4.9 MLV=4.8
	eSS C	53.1	
	LmH C	10 16.5	
	LmV C	16.5	
23.	eiPg A	10 15 27.5	Explosion
	eSg A	15 45	D = ca. 1.3°
23.	eSg A	10 32 57	Probably explosion.
	eL A	33 00	
23.	iPg A	13 04 50.2	<u>Explosion/GDR</u>
	iSg A	04 57.0	
	eiL A	04 58.5	
23.	eiL A	13 05 12	<u>Explosion/GDR</u>
23.	ei A	13 05 20.5	<u>Explosion/GDR</u>
eiL A	05 23.5		
23.	ePg A	14 00 26	<u>Explosion/CSSR</u> 50°37'N 14°21'E
	eiSg A	00 49.5	Yield: 9 t (PRUHONICE)
	ei A	00 53	D = 1.7°
	LmH A	00 56	
23.	e A	14 44 41.5	Explosion?
	e A	44 45.5	

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Day	Phase	h m s	Remarks
23.	e(Pg)	A 14 45 17.5	Explosion?
	eSg	A 45 37.5	(D = ca. 1.5°)
23.	LmH	C 15 21	<u>South Sandwich Islands Region</u> (USCGS)
	LmV	C 21	Traces
23.	iPg	A 16 33 21	Explosion
	iSg	A 33 40.5	D = ca. 1.5°
23.	ePKP	A 17 27 32	<u>South of Fiji Islands</u> 23.4°S 179.7°E H = 17 08 46.7 h = 640 km MAG=4.6 (USCGS) D = 151.2°
	LmH	C 18 56.3	
	LmV	C 57.5	
24.	LmH	C 01 48.4	<u>Tibet</u> 35.29°N 87.95°E
	LmV	C 52.5	H = 01 17 09.6 h = 31 km MAG=4.5 (USCGS) D = 55.5° LmH:20s 0.2 μm MLH=4.3
24.	+iP	A 03 33 13.4	<u>Kurile Islands</u> 43.48°N 147.51°E
	epP	A 33 29.5	H = 03 21 17.6 h = 70 km MAG=5.4
	eisP	A 33 38	D = 78.7° Az = 333.1° (USCGS);
	LmV	C 04 04	h = 64 ± 3 km
	LmH	C 04.6	PV:1.2s 40.8nm pPV:1.4s 27.6nm sPV:1.4s 40.0nm LmH:25s 0.25 μm MPV=5.4 MLH=4.5
24.	+iPKPKP	A 05 48 42.7	<u>Fiji Islands Region</u> 21.05°S 179.36°W
	eiPKP2	A 48 49.6	H = 05 30 05.8 h = 672 km MAG=4.7 D = 149.2° Az = 346.3° (USCGS) PV1:1.0s 26.1nm
24.	iPg	A 09 02 44.5	Explosion
	iSg	A 02 46.5	D = 16 km SgV:0.5s 294nm

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Day	Phase	h m s	Remarks
24.	iSg	A 10 29 28.5	<u>Explosion/ČSSR</u> 49°30.3'N 12°46'E
	eL	A 29 35	Yield: 8 t (PRUHONICE)
	LmH	A 29 41	D = 1.4°
24.	ePKP	C 10 52 10	<u>New Hebrides Islands</u> 14.91°S 166.85°E
	ePKIKP	A 52 14	H = 10 32 52.6 h = 23 km MAG=5.3
	e	A 52 19	D = 139.1° Az = 336.0° (USCGS)
	ePP	C 55 11.5	PPV(A):2.0s 66.6nm PPV(B):10.5s 0.5 μm
	iPP	B 55 14.5	LmH:20s 1.0 μm LmV:20s 1.4 μm
	eiPKS	AB 55 56	MPPV(A)=5.4 MPPV(B)=5.7 MLH=5.5 MLV=5.7
	eSSS	C 11 19.5	
	LmH	B 56	
	LmV	B 56	
24.	eP	A 10 54 44	<u>Mozambique Channel</u> 17.11°S 40.33°E
	e	A 54 51.5	H = 10 43 26.2 h = normal MAG=5.1 (USCGS)
	i	A 54 58.5	D = 72.1° Successive P-onsets with increasing amplitudes.
24.	e	A 10 59 23	Probably explosion.
	eSg	A 59 39	
24.	iSg	A 11 15 33.3	<u>Explosion/ČSSR</u>
	eL	A 15 44	KÁŠPERSKÉ HORY gives: D = 85 km PRUHONICE: D = 1.1°
24.	+iP	A 12 10 49.3	PV:0.9s 14.2nm
24.	i(Pn)	A 12 31 17.5	Explosion? Probably ČSSR.
	i(Sn)	A 31 48.5	(D = ca. 2.7°)
	e(Sg)	A 31 58.5	PRUHONICE: D = 1.5°
	iL	A 32 06.5	KÁŠPERSKÉ HORY: D = 1.3° VIENNA: D = 165 km
24.	eiPKP	A 13 53 24	<u>South of Fiji Islands</u> 22.29°S 178.08°W
	e	A 53 27.5	H = 13 34 10.5 h = 330 km MAG=4.6
	epPKP	A 54 55	D = 150.7° Az = 347.3° (USCGS); h = 375 km PV:1.1s 12.0nm

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Day	Phase	h m s	Remarks
24.	e	A 14 07 30	Explosion
	eL	A 07 34	Traces
24.	e	A 15 58 39	Explosion?
	e	A 58 43	Traces
	e	A 58 51	
24.	+iP	A 23 24 09.5	<u>Congo</u> 10.5°S 27.3°E
	e	A 24 21.5	H = 23 14 45.0 h = 21 km MAG=5.0 (USCGS) D = 62.5°
25.	eiPg	A 09 03 43.0	Explosion
	eiSg	A 03 57.7	D = ca. 1.1°
25.	iPg	A 13 01 25.5	Explosion
	eiSg	A 01 39	D = ca. 1.0°
25.	eiPg	A 15 05 20.5	<u>Explosion/Hilders, GFR</u> 50°32.5'N 10°02.4'E
	eiSg	A 05 35.5	Yield: 4 t (HANNOVER) D = 1.0°
25.	eP	A 15 15 17.5	<u>Rat Islands/Aleutian Is.</u> 51.74°N 177.22°E
	LmH	C 50	H = 15 03 25.1 h = 37 km MAG=4.8 D = 77.3° Az = 350.7° (USCGS) PV:1.8s 30.6nm MPV=5.1
26.	-eP	A 00 50 40	<u>West Caroline Islands</u> 12.23°N 140.73°E
	-eiP	B 50 41	H = 00 36 42.1 h = 33 km MAG=6.1
	e(pP)	A 50 54	D = 103.3° Az = 329.5° (USCGS)
	eX	B 53 46	PV(A):1.5s 67.2nm PV(B):7.5s 1.1/um
	eiPP	B 54 50	PH(B):7.5s 0.3/um PPV:12s 3.5/um
	eSKS	C 01 01 14	PPH:12s 1.6/um
	ei(S)	C 02 11	LmV:14.5s 10.4/um
	iPS	B 03 54	MPPV=6.8 MPPH=6.7 MLV=6.5
	iPPS	B 04 47	1 50 43.3 e 50 46.5 e 50 59 e 51 24
	eiSPP	B 04 52	e 51 45 e 53 38 e 53 51.5 e 54 13
	eiPKKP	A 06 35	e 55 02.5 e 01 21 i 01 36 e 02 25
	eSS	C 09 24	i 04 40 e 06 55.5

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Day	Phase	h m s	Remarks
cont.			
26.	ePSPS	B 01 09 40	X is a clear unidentified phase in our
	iLQ	C 22 32	long-period records preceding PP.
	iLR	C 26.0	
	LmV	B 41.2	
26.	e	A 01 59 37	Traces
26.	eP	A 02 21 07.5	<u>West Caroline Islands</u> 12.19°N 140.79°E H = 02 07 08.9 h = 30 km MAG=5.3 D = 103.4° Az = 329.5° (USCGS)
26.	LmV	C 06 27.5	<u>West Caroline Islands</u> 12.11°N 140.74°E
	LmH	C 28	H = 05 25 17.4 h = normal MAG=4.7 (USCGS) D = 103.3° LmH:20s 0.2/um LmV:22s 0.2/um MLH=4.6 MLV=4.6
26.	ei(Sg)	A 13 41 01	<u>Explosion/GDR</u>
	iL	A 41 04.0	
26.	i(Sg)	A 13 41 14.0	<u>Explosion/GDR</u>
	iL	A 41 17.0	
26.	eiL	A 13 41 25.5	<u>Explosion/GDR</u>
26.	ei(Sg)	A 13 41 40.5	<u>Explosion/GDR</u>
	iL	A 41 42.5	
26.	eiL	A 13 41 52.5	<u>Explosion/GDR</u>
26.	eP	A 14 22 20	<u>Turkey</u> 37.35°N 30.78°E
	eS	C 25 56	H = 14 17 57.4 h = normal MAG=4.5
	LmH	C 28.5	D = 19.1° Az = 320.3° (USCGS)
	LmV	C 30.5	LmV:15s 0.3/um MLV=3.8
26.	eP	A 15 37 57	<u>Mid Indian Rise</u> 20.17°S 67.15°E
	e	A 38 08	H = 15 25 20.0 h = normal MAG=5.0 D = 85.7° Az = 328.2° (USCGS)

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Day	Phase	h m s	Remarks
26.	-ePKP A	18 39 32.5	<u>Samoa Islands Region</u> 15.39°S 172.73°W
	+i(pPKP) A	39 43.8	H = 18 19 58.2 h = 37 km MAG=5.0
	e A	40 50	D = 144.7° Az = 355.2° (USCGS);
	eLQ C	19 20.0	(h = 40 km)
	LmH C	51.0	PV1:1.6s 37.9nm PV2:1.6s 121nm
	LmV C	51.0	LmH:18s 0.5/um LmV:18s 0.8/um MLH=5.3 MLV=5.5
26.	eP A	21 56 31	<u>Alaska Peninsula</u> 55.27°N 160.57°W
	epP A	56 49	H = 21 44 59.2 h = 65 km MAG=4.7 D = 74.3° Az = 5.2° (USCGS); h = 70 km PV:1.0s 14.2nm MPV=5.1
27.	eP A	02 29 51	<u>Aleutian Islands</u> 52.4°N 168.7°W H = 02 17 57.2 h = normal MAG=3.9 (USCGS) D = 77.5°
27.	+eP A	13 21 13.5	<u>Nicaragua</u> 12.27°N 86.18°W
	+iP B	21 14	H = 13 08 55.9 h = 183 km MAG=5.2
	+iP C	21 15	D = 85.5° Az = 39.3° (USCGS); h = 180 km
	eX A	21 36	PV(A):1.6s 37.9nm PV(B):8s 0.8/um
	eipP A	21 57.5	PPV(A):2.6s 272nm PPH(A):2.6s 175nm
	+ipP B	21 58.5	PPV(B):5s 0.8/um PPH(B):3.5s 0.4/um
	isP AB	22 17.5	pPPV(B):5s 0.4/um SH(B):18s 1.3/um
	-eiPP B	24 41	(SP)H:18.5s 1.7/um
	eiPP A	24 42.5	MPV(A)=4.9 MPV(B)=5.6 MPPV(A)=5.9
	epPP AB	25 20	MPPH(A)=5.9 MPPV(B)=6.2 MPPH(B)=6.1
	esPP B	25 42	MSH=5.6
	eS B	31 20	X is a clear unidentified phase between P and pP in our short-period records. After
	eS C	31 22	Båth (Bulletin of the Seismological Institute Uppsala) this phase is the P of
	e(SP) C	32 22	another shock in the same place.
	esS C	32 36	
	ePPS C	33 18	
eSS C	37.1		
eLQ C	43.6		
eLR C	48.7		

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Day	Phase	h m s	Remarks
27.	eP A	13 46 28.5	<u>Vancouver Island Region</u> 50.22°N 129.97°W H = 13 34 52.6 h = 24 km MAG=5.1 D = 74.3° Az = 24.3° (USCGS)
	ePP A	14 35 20	<u>Molucca Passage</u> 0.50°N 126.12°E
27.	e C	55.0	H = 14 16 56.1 h = 62 km MAG=5.4 (USCGS)
	LQ C	15 00	D = 104.9°
	LmV B	21	LmV:20s 0.6/um MLV=5.1
27.	LmH C	17(32)	<u>Luzon/Philippine Islands</u> (USCGS)
	LmV C	(32)	Traces
27.	iP A	18 40 43.5	<u>Vancouver Island</u> 50.2°N 129.7°W
	ei A	40 45.5	H = 18 29 07.4 h = normal MAG=4.5 (USCGS)
	e A	40 55.5	D = 74.1°
27.	ePg A	21 27 02	<u>Valais/Switzerland</u> 46.5°N 7.4°E
	iSg A	28 07.0	H = 21 25 26 (BCIS)
	e A	28 10.5	D = 5.0°
	eLg2 A	28 14.5	e 27 20 e 28 04 e 28 08.5
27.	eiPKHKP A	22 28 58	<u>Fiji Islands Region</u> 20.38°S 178.12°W
	ePKP2 A	29 03	H = 22 10 11.6 h = 545 km MAG=4.3 D = 148.8° Az = 348.0° (USCGS) PV:1.4s 27.6nm
28.	LmH C	03 47.8	<u>Aegean Sea</u> (USCGS)
	LmV C	50.1	
28.	ei(Sg) A	12 17 52	Explosion
	eL A	17 59	
28.	eiSg A	13 24 41	Explosion
	e A	24 44	PRUHNICE gives: D = 1.2°
28.	eP A	15 37 27.5	<u>Vancouver Island Region</u> 50.36°N 129.91°W
	e A	37 30.5	H = 15 25 51.8 h = normal MAG=5.2
	eS C	47 08	D = 74.2° Az = 24.3° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
28.	ePS C	15 47 40	LmH:25s 0.6 μ m LmV:25s 0.4 μ m
	eSS C	52(20)	MLH=4.8 MLV=4.7
	LmH C	16 08	e 37 33 e 47 40
	LmV C	08	
28.	eP A	16 31 44	<u>Vancouver Island Region</u> 50.40°N 129.84°W
	e A	31 50	H = 16 20 06.6 h = normal MAG=5.1
	eS C	41 20	D = 74.1° Az = 24.4° (USCGS)
	LmH C	17 02.0	SH:15s 0.5 μ m
	LmV C	02.2	LmH:23s 0.6 μ m LmV:24s 0.7 μ m
			MSH=5.4 MLH=4.9 MLV=4.9
			AN USSR gives: South of Queen Charlotte Island 52.3°N 131.6°W
			H = 16 20 19 h = normal MAG=5
			D = 72.9°
28.	-iP A	17 40 38.7	<u>Dodecanese Islands</u> 36.70°N 26.82°E
			H = 17 36 41.0 h = 174 km MAG=4.3
			D = 17.7° Az = 326.7° (USCGS)
			PV:1.2s 15.3nm PH:1.1s 19.8nm
28.	eP A	18 43 20	<u>West Pakistan</u> 30.3°N 69.9°E
	e A	43 58.5	H = 18 34 44 h = normal (AN USSR)
			D = 47.5°
28.	e(P) A	21 14 48	<u>Southern Sinkiang Prov./China</u>
	e A	14 53	36.51°N 80.14°E
			H = 21 05 51.7 h = normal MAG=4.7
			D = 49.9° Az = 309.2° (USCGS)
			The first onset of P must be about 4 s earlier.
28.	eP A	21 20 41	<u>Morocco</u> 31.49°N 6.06°W
	e A	20 51	H = 21 15 35.7 h = normal MAG=4.6
	e A	20 58.5	D = 23.2° Az = 29.4° (USCGS)
	eS B	24 53	PV:2.8s 143nm SH:8s 0.6 μ m
	LmH C	30.4	LmH:12s 0.5 μ m LmV:14s 0.4 μ m
	LmV C	30.8	MPV=5.1 MSH=5.1 MLH=4.2 MLV=4.2

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Day	Phase	h m s	Remarks
29.	e(PP) A	07 46 20	<u>Banda Sea</u> 6.8°S 123.5°E
	ePP C	46 34	H = 07 27 37 h = normal MAG=6 (AN USSR)
	eSP C	55 56	D = 109.1°
	eSPP C	57 00	LmH:30s 3.1 μ m LmV:25s 1.2 μ m
	eSS C	08 01 44	MLH=5.7 MLV=5.4
	eLQ C	12.2	e 46 45 e 47 13
	LR C	18	
	LmH C	27.1	
	LmV C	33.2	
29.	i A	09 21 57.5	
29.	iPg A	10 42 52.6	Explosion
	ei A	43 06.5	D = ca. 1.2°
	iSg A	43 08.6	
29.	ePP C	11 10 08	<u>New Guinea</u> 3.25°S 141.50°E
	ePP A	10 11	H = 10 50 09.4 h = 41 km MAG=5.1 (USCGS)
	ePS C	19 40	D = 116.8°
	eSS C	26 30	LmH:21s 0.8 μ m LmV:21s 0.5 μ m
	LmH C	55.7	MLH=5.3 MLV=5.1
	LmV C	59.5	
29.	ei(Sg) A	17 14 44	Probably explosion.
	eL A	14 55	
	LmH A	15 04	
29.	LmH C	22 08.6	<u>China</u> 41.1°N 79.0°E
	LmV C	08.6	H = 21 46 39 h = normal MAG=4.72 (AN USSR)
			D = 46.4°
			LmH:9s 0.2 μ m LmV:14s 0.3 μ m
			MLH=4.5 MLV=4.4
30.	eP A	02 17 23	<u>Japan</u> 35.6°N 140.0°E
	e A	17 27.5	H = 02 06 11.1 h = 72 km MAG=4.7 (USCGS)
	e A	17 58	D = 82.3°

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Day	Phase	h m s	Remarks	
30.	-iP1	A 04 32 47.2	<u>Szechwan Prov./China</u> 31.66°N 100.30°E	
	-iP	B 32 48.0	H = 04 22 01.5 h = 3 km MAG=6.1	
	-iP2	A 32 49.7	D = 65.5° Az = 315.6° (USCGS)	
	+iPP	C 35 08	PV:7s 14.2 μ m PH:7s 6.6 μ m	
	-iPP	B 35 15	PPV(B):8s 5.8 μ m PPPV:12s 3.3 μ m	
	+iPPP	B 36 49.5	PaV:22s 2.8 μ m PaH:24s 5.6 μ m	
	iPa	C 37 04	SH:13s 8.4 μ m	
	iS	B 41 32	LmH:15s 37 μ m LmV:17s 45.5 μ m	
	iSS	C 46 12	MPV=7.2 MPH=7.3 MPPV=7.2 MSH=6.7	
	iSa	C 48 41	MLH=6.7 MLV=6.8	
	LmH	B 05 03.3	i 41 38 i 46 28	
	LmV	B 03.3	Multiple P in our short-period records, the first onset smaller than the second one.	
	30.	iP	A 05 08 24.5	<u>Szechwan Prov./China</u> 31.67°N 100.32°E H = 04 57 42.6 h = normal MAG=4.9 D = 65.5° Az = 315.6° (USCGS)
		e(Pg)	A 07 21 27	Near earthquake.
30.	e(Sg)	A 22 37	(D = 5.3°) TRIESTE gives: D = 160 km	
	eP	A 08 21 55	<u>Near East Coast of Honshu/Japan</u> 36.18°N 140.02°E H = 08 09 40.8 h = 77 km MAG=4.7 D = 82.3° Az = 329.8° (USCGS) AN USSR gives: Japan 37.0°N 139.2°E H = 08 09 59 h = 190 km D = 81.3°	
30.	eSg	A 10 46 41.0	Probably explosion.	
	eL	A 46 50		
	LmH	A 46 54		
30.	eP	AB 11 19 31	<u>Szechwan Prov./China</u> 31.61°N 100.29°E	
	e	A 19 37	H = 11 08 49.6 h = normal MAG=5.1	
	ePP	A 21 50	D = 65.5° Az = 315.6° (USCGS)	
	eS	B 28 16	PV(A):1.5s 33.5nm PV(B):5.5s 0.5 μ m	

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Day	Phase	h m s	Remarks
cont.			
30.	eiS	B 11 28 19	SH:9.0s 0.4 μ m
	eSS	C 32(30)	LmH:14s 2.2 μ m LmV:14s 2.7 μ m
	eSSS	C 35.5	MPV(A)=5.3 MPV(B)=5.9 MSH=5.6 MLH=5.5
	LmH	B 50.2	MLV=5.6
	LmV	B 50.2	
30.	ePKIKP	A 12 15 28	<u>Kermadec Islands Region</u> 30.37°S 178.65°W
	e	A 15 30	H = 11 55 50.5 h = 161 km MAG=4.8
	iPKP2	A 16 04.0	D = 158.3° Az = 342.1° (USCGS) PV3:1.3s 36.2nm AN USSR gives: Kermadec Islands Region 30.3°S 178.9°W H = 11 55 34 h = normal MAG=5.2 D = 158.2°
30.	ei	A 12 58 40	<u>Explosion/GDR</u>
	ei(Sg)	A 58 44.5	
	iL	A 58 48.5	
30.	ei	A 12 59 09.5	<u>Explosion/GDR</u>
	eiL	A 59 11.5	
30.	eiSg	A 12 59 18	<u>Explosion/GDR</u>
	eiL	A 59 20	
30.	iPg	A 13 32 09.1	Explosion
	iSg	A 32 23.5	D = ca. 1.1°
30.	+iP	A 13 45 23.7	<u>Kurile Islands</u> 45.40°N 151.50°E
	+i(pP)	A 45 30.2	H = 13 33 26.4 h = normal MAG=5.5
	iPcP	A 45 34.6	D = 78.2° Az = 335.2° (USCGS)
	eS	C 55 14	PV:1.4s 221nm
	eSS	C 14 00.2	LmH:17.5s 5.9 μ m LmV:20s 4.5 μ m
	LQ	C 07.5	MPV=6.1 MLH=6.0 MLV=5.8
	eLR	C 10.6	ei 45 40 i 55 47
	LmH	B 19.5	
LmV	B 23.3		

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Day	Phase	h m s	Remarks
30.	eP A	13 46 45	<u>Kurile Islands</u> H = 13 34 49 (UPP) PV:1.5s MPV=5.5
30.	eP A LmH C LmV C	20 15 29 49.4 53	<u>Kurile Islands</u> 45.27°N 151.39°E H = 20 03 31.7 h = normal MAG=4.5 D = 78.3° Az = 335.2° (USCGS) PV:1.4s 15.3nm LmH:15.5s 0.2 μ m LmV:20s 0.2 μ m MPV=4.9 MLH=4.6 MLV=4.4
31.	-iPKP A	11 06 36	<u>New Hebrides Islands</u> 18.74°S 169.14°E H = 10 47 30.4 h = 234 km MAG=4.9 D = 143.5° Az = 335.9° (USCGS) PV:1.3s 27.8nm
31.	e A e A	11 30 46 30 54	Traces
31.	eP A	13 51 30.5	<u>Luzon/Philippine Islands</u> 18.30°N 121.27°E H = 13 38 50.7 h = 99 km MAG=4.8 D = 87.9° Az = 323.1° (USCGS)
31.	ei(Pg) A ei A eiSg A	14 47 41 47 47.5 48 02	Explosion
31.	ePKP A -iPKP A i A ipPKP A esPKP B	19 12 34.5 12 35.4 12 37.5 13 43.0 14 08	<u>Tonga Islands</u> 17.46°S 175.25°W H = 18 53 25.2 h = 277 km MAG=5.4 D = 146.4° Az = 352.1° (USCGS); h = 270 km PV2:1.0s 90.0nm e 13 46.5 e 15 51

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Day	Phase	h m s	Remarks
1.	-eiPKIKP A e A ePP A e B eSKKS C LmH C	03 49 44 51 13 51 28.5 52 06 04 07(40) 30.7	<u>East New Guinea Region</u> 5.57°S 147.18°E H = 03 31 10.5 h = 182 km MAG=5.6 D = 121.8° Az = 328.4° (USCGS) PPV:2.0s 33.1nm LmH:35s 1.0 μ m MPPV=5.2
1.	ei(Sn) A ei A i(Sg) A	05 26 46.0 26 48.3 26 51.6	
1.	e(PKP2) A	07 26 57.5	<u>South of Kermadec Islands</u> 34.4°S 179.0°E H = 07 06 21.9 h = 33 km MAG=4.7 (USCGS) D = 161.3°
1.	e A	11 42 30	
1.	LmH C LmV C	16 06.5 06.5	<u>West Chile Rise</u> 44.1°S 82.1°W H = 14 53 55 h = normal MAG=5.2 (USCGS) D = 124.3° LmH:19s 0.3 μ m LmV:19s 0.2 μ m MLH=5.9 MLV=5.9
1.	iPg A iSg A	17 09 22.5 09 25.0	Explosion D = 0.2°
1.	+iP A ePcP A epP A eisP A ePP A eS C eScS C LmH C LmV C	22 53 42.9 53 55 54 13 54 28 56 34 23 03 20 03 50 25.3 29.5	<u>Kurile Islands</u> 44.88°N 146.96°E H = 22 42 01.8 h = 134 km MAG=5.4 D = 77.3° Az = 332.7° (USCGS); h = 122 km PV:1.3s 139nm LmH:20s 1.2 μ m LmV:25s 1.0 μ m MPV=5.9 MLH=5.3 MLV=4.2 e 53 48 AN USSR gives: Kurile Islands 44.9°N 147.3°E H = 22 41 50 h = normal MAG=5.4

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Day	Phase	h m s	Remarks
2.	ePKP2 ei ei e	A 01 44(54) A 44 58 A 45 23.5 A 45 38	<u>South of Kermadec Islands</u> 33.7°S 178.8°W H = 01 24 22.4 h = 129 km MAG=4.7 (USCGS) D = 161.4° ei 45 21
2.	eiP1 iP2 iP3 eS LmH LmV	A 03 51 14 A 51 17.0 A 51 22.5 B 55 24 C 04 02 C 03	<u>Jan Mayen Island</u> 71.56°N 8.23°W H = 03 46 13.9 h = normal MAG=4.4 D = 22.8° Az = 146.2° (USCGS) PV2:1.3s 27.9nm PV3:1.7s 52.9nm MPV2=4.8 MPV3=4.9 Successive P-onsets with increasing amplitude.
2.	eP e	A 05 34 20 A 34 42.5	
2.	ePKP2	A 05 57 40	<u>Kermadec Islands</u> 29.07°S 178.98°W H = 05 37 50.0 h = 307 km MAG=4.6 (USCGS) D = 157.0° AN USSR gives: <u>Fiji Islands Region</u> 22.1°S 175.4°E H = 05 38 00 h = normal D = 148.8°
3.	i(P) ei	A 00 14 05.0 A 14 49	
3.	e	A 00 49 30	
3.	eSS eSSS eSSSS LQ LmH	C 02 00.4 C 05.0 C 08.3 C 14 C 26.5	<u>New Guinea</u> 7.8°S 147.1°E H = 01 23 19.6 h = 139 km MAG=5.4 (USCGS) D = 123.6° AN USSR gives: h = normal LmH:26s 0.5 μ m
3.	eP epP	A 04 58 01 A 58(40)	<u>Japan</u> 31.0°N 129.8°E H = 04 45 57.0 h = 165 km MAG=4.6 (USCGS) D = 82.1°

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Day	Phase	h m s	Remarks
3.	ePKP e	A 06 41 30.5 A 41 33	<u>Fiji Islands</u> 18.96°S 178.00°W H = 06 22 45.8 h = 547 km MAG=4.1 D = 147.5° Az = 348.5° (USCGS) PV:1.1s 14.4nm
3.	eiP	A 07 49 50	<u>Southern Greece</u> 37.51°N 21.85°E H = 07 46 19.1 h = 48 km MAG=4.4 D = 15.0° Az = 334.1° (USCGS)
3.	e(P)	A 09 23 17	<u>Greece</u> 38.5°N 22.1°E H = 09 19 47.6 h = 35 km MAG=4.3 (USCGS) D = 14.3° The first onset of P must be about 7 s earlier.
3.	eiP ipP	A 11 41 47.5 A 42 06	<u>Alaska</u> 60.5°N 151.6°W H = 11 30 51.7 h = 79 km MAG=4.7 (USCGS) D = 68.3° h = 75 km
3.	eP +iP +iP eX eY ePP +iPP iPPP ei(Pa) iSEE iS iSP iPPS ePKKP iSS eSKKP iSSS ePKPPKP iSSSS i(Sa)	A 21 21 08 B 21 08.1 C 21 09.5 C 23 24 C 24 38 A 25 14 B 25 17.5 C 27 24 C 30 48 BC 31 51 C 32 40 C 34 03 C 34 54 A 37 36.5 C 39 36 A 40 53.5 C 43 10 A 45 49 C 46 44 C 47 20	<u>Off Coast of Peru</u> 10.58°S 79.75°W H = 21 07 30.8 h = 38 km MAG=6.5 D = 99.0° Az = 40.1° (USCGS) PV(B):13s 7.9 μ m PH(B):14s 2.6 μ m PPV(B):(16s) 8.5 μ m SKSH(B):(18s) 11 μ m SKSH(C):(24s) 15 μ m SH(C):32s 13.1 μ m LmH:23s 60 μ m LmV:23s 91 μ m MPV(B)=7.1 MPH(B)=7.3 MPPV(B)=6.9 MLH=7.0 MLV=7.2 ei 21 12.5 i 24 44 e 27 04 PP has an unusually long period (T = 6 s) in the registrations of our short-period vertical component. X and Y are two clear unidentified onsets between P and PP in our long-period registrations.

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Day	Phase	h m s	Remarks
cont.			
3.	LmH B	22 02.0	
	LmV B	02.3	
4.	ePKP2 A	01 02 44	<u>Kermadec Islands</u> H = 00 42.2 (UPP) D = ca. 159°
4.	eP A	03 28 59	<u>Central Mid-Atlantic Ridge</u>
	epP A	29 09	1.32°S 23.91°W
	e A	30 09	H = 03 18 52.2 h = normal MAG=4.7
	eS C	37 16	D = 60.0° Az = 25.3° (USCGS); h = 40 km
	LQ C	44.0	AN USSR gives: Southeast of Northatlantic
	eLR C	47.3	Ridge 1.6°S 19.1°W
	LmH C	(54)	H = 03 19 04 h = normal
	LmV C	(54)	D = 58.3°
4.	-ePKIKP A	04 11 29	<u>Kermadec Islands</u> 31.44°S 179.45°W
	ePKHKP A	11 43	H = 03 51 58.9 h = 231 km MAG=5.5
	+iPKP2 A	12 07.5	D = 159.1° Az = 340.0° (USCGS); h = 230 km
	eipPKP2 A	13 05	PV1:1.8s 46.0nm PV2:1.5s 20.1nm
	e(PP) A	15 41	PV3:1.4s 104nm PV4:2.4s 222nm
	e C	16 20	AN USSR gives: Kermadec Islands Region
	e A	16 48	31.4°S 178.5°W
	e A	17 28	H = 03 51 34 h = normal D = 159.4°
4.	e A	11 58 19.5	Explosion?
	eSg A	58 20.5	
4.	e(Sg) A	12 14 31.5	Explosion?
	e A	14 38	
4.	eSg A	12 55 03.5	Probably explosion.
	e A	55 06.5	
4.	eiPKIKP A	13 19 03.5	<u>New Ireland Region</u> 4.72°S 153.20°E H = 13 00 11.3 h = 70 km MAG=4.6 D = 124.1° Az = 331.5° (USCGS)

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Day	Phase	h m s	Remarks
4.	eiP A	19 41 16	<u>Near East Coast of Kamchatka</u> 54.79°N 159.08°E H = 19 30 13.7 h = 182 km MAG=4.6 D = 71.5° Az = 338.8° (USCGS) PV:0.9s 11.8nm MPV=4.6
5.	eSg A	02 48 47.5	
	e A	48 49	
5.	eP A	08 35 21	<u>Turkey</u> 36.73°N 29.33°E
	e A	35 30	H = 08 31 01.1 h = 24 km MAG=4.4
	e A	35 40	D = 18.8° Az = 323.1° (USCGS)
	e A	35 50	PV:(2.0s 66nm)
	LmH C	41.3	
	LmV C	41.3	
5.	ePn A	11 38 21.5	<u>Northern Italy</u> 45.60°N 13.92°E
	ei A	38 31	H = 11 37 03.0 h = 38 km MAG=4.0
	iPg A	38 44.0	D = 5.3° Az = 343.9° (USCGS)
	eiSn A	39 19.5	PgV:0.9s 28.3nm SnH:0.6s 254nm
	iSg A	39 50.5	SgH:1.0s 205nm
	iLg2 A	39 59.0	Exceptionally clear Sn-onset in the NS-
	ei A	40 02.6	component and Sg-onset in the EW-component. The same in the following two aftershocks. BCIS gives: Yugoslavia 45.7°N 14.2°E h = 11 37 04
5.	eiSn A	15 20 32.5	<u>Yugoslavia</u> 45.7°N 14.2°E
	iSg A	21 03.2	H = 15 18 16 (BCIS)
	iLg2 A	21 11.6	D = 5.3° SnH:0.7s 45.9nm SgH:1.0s 49.4nm Lg2H:0.9s 82.5nm
5.	ePn A	15 22 19	<u>Yugoslavia</u> 45.7°N 14.2°E
	iPg A	22 41.0	H = 15 21 01 (BCIS)
	i A	22 56.9	D = 5.3°
	iSn A	23 16.3	PnV:0.8s 21.2nm PgV:0.9s 28.3nm
	iSg A	23 47.9	SnH:0.6s 215nm SgH:1.0s 214nm
	iLg2 A	23 56.5	Lg2H:0.9s 308nm

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Day	Phase	h m s	Remarks
5.	eSg A	17 57 58.5	Aftershock to the preceding Yugoslavia earthquakes. TRIESTE gives: D = 35 km
6.	eP A	01 54 16	<u>India-East Pakistan Border Region</u>
	i A	54 26.0	24.1°N 91.7°E
	ei A	54 32	H = 01 43 31.8 h = 18 km MAG=5.0 (USCGS) D = 65.6° AN USSR gives: Assam 25.8°N 92.3°E H = 01 43 48 h = normal MAG=4.72 D = 65.3° P is followed after 10 s by a much larger onset. A double shock in the same focus?
6.	eP A	03 31 07	<u>Kurile Islands</u> 46.72°N 153.99°E
	e A	31 17.5	H = 03 19 12.4 h = normal MAG=4.8 D = 77.7° Az = 336.6° (USCGS); h = 40 km PV:1.0s 21.3nm MPV=5.2
6.	eP A	05 03 29	<u>Crete</u> 35.0°N 23.0°E
	e A	03 38	H = 04 59 24.7 h = normal MAG=4.8 (USCGS)
	e A	03 47.5	D = 17.7°
	eS C	06 50	LmH:13s 2.4 μ m LmV:14s 2.1 μ m
	LQ C	(07.2)	MLH=4.6 MLV=4.7
	LmH B	10.7	e 03 44.5 i 03 55.0 i 04 03.0 e 06 55
	LmV B	11.7	
6.	-eiP A	07 41 43	<u>Andaman Islands</u> 14.67°N 93.58°E
	+ipP A	41 54.5	H = 07 30 10.8 h = normal MAG=5.6
	ei(PoP) A	42 00	D = 73.7° Az = 318.9° (USCGS); h = 44 km
	i(pPoP) A	42 12.5	LmH:18s 1.8 μ m LmV:20s 1.7 μ m
	eS C	51 12	MLH=5.5 MLV=5.4
	eSS C	55 56	e 42 28 e 44 40 e 51 30
	LmH B	08 19.7	
	LmV B	19.7	
6.	e(P) A	07 59 29	

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Day	Phase	h m s	Remarks
6.	eP A	09 37 26.5	<u>Fox Islands/Aleutian Is.</u> 52.43°N 168.63°W H = 09 25 34.2 h = 42 km MAG=4.2 D = 77.3° Az = 359.8° (USCGS) PV:1.0s 14.2nm MPV=5.1
6.	e(Pg) A	11 34 00	Probably explosion.
	e(Sg) A	34 12	
	e A	34 18	
6.	+eiP A	17 36 32.5	<u>Fox Islands/Aleutian Is.</u> 52.57°N 168.54°W
	i(pP) A	36 44.2	H = 17 24 40.1 h = normal MAG=4.8
	LmH C	18 18.9	D = 77.2° Az = 359.9° (USCGS);
	LmV C	19.4	(h = 43 km) PV:1.1s 33.7nm LmH:18s 0.3 μ m LmV:16s 0.2 μ m MPV=5.4 MLH=4.6 MLV=4.6
7.	eP A	00 35 06.5	<u>Albania</u> 40.6°N 19.4°E
	e A	35 26	H = 00 32 22 h = normal MAG=4.4 (USCGS)
	LmH C	40.9	D = 11.5°
	LmV C	40.9	LmH:15s 0.4 μ m LmV:16s 0.3 μ m MLH=3.4
7.	eP A	07 26 00	<u>Celebes Sea</u> 2.69°N 124.30°E
	epP B	27 04	H = 07 12 36.6 h = 274 km MAG=5.8
	e(pP) A	27 14	D = 102.1° Az = 323.1° (USCGS); h = 266 km
	ePP B	30 16	LmH:17.5s 1.5 μ m LmV:15s 1.2 μ m
	epPP B	31 13	AN USSR gives: Indonesia 2.6°N 124.3°E
	esPP B	31 44	H = 07 12 29 h = 202 km
	iSKS B	36 12	D = 102.1°
	eSKKS B	36 49	ei 30 21 ei 31 25 e 36 12 e 44 16
	eiS B	37 17	
	eiSP B	38 45	
	esSP B	40 23	
	e(sPPS) B	41 14	
	iPKKP A	41 59.2	
	eSS B	44 32	
	esSS B	46 25	

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Day	Phase	h m s	Remarks
cont.			
7.	eSa B	07 54 53	
	LmH B	08 12.2	
	LmV B	19	
7.	eP A	08 08 33	
7.	ePKP2 A	09 54 43	<u>Kermadec Islands Region</u> 30.5°S 177.6°W
	e A	54 49.5	H = 09 34 12.1 h = 27 km MAG=4.7 (USCGS)
	e A	54 56.5	D = 158.7°
7.	ePKIKP A	11 27 19	<u>Kermadec Islands</u> 31.28°S 179.63°E
	ePKHKP A	27 33	H = 11 08 18.2 h = 430 km MAG=5.1
	+iPKP2 A	27 59.0	D = 158.7° Az = 338.7° (USCGS); h = 436 km
	epPKP2 A	29 44	i 28 09.0 ei 28 28.5 e 30 35 e 31 37
	eSKP A	30 20	e 31 46 e 47 24
	ePP A	31 39	
7.	iPg A	13 04 05.7	Explosion
	iSg A	04 19.3	D = 1.0°
7.	eP A	13 57 18	
7.	eiP A	14 12 05.5	<u>Sicily</u> 37.94°N 15.30°E
	ePP A	12 16	H = 14 09 02.8 h = 53 km MAG=4.3
	ei A	12 31.5	D = 13.0° Az = 349.5° (USCGS)
	e(SS) C	14.9	PV:1.0s 19.0nm
	LmH B	18	LmH:15s 1.3 μ m LmV:16s 1.9 μ m
	LmV B	18	MLH=4.1
7.	eiPg A	14 25 40.5	<u>Explosion/GDR</u>
	iSg A	25 49.8	D = ca. 0.7°
	ei A	25 51.5	LmH:1.4s 120nm LmV:1.4s 109nm
	eL A	25 53	
	LmH A	26 03	
	LmV A	26 03	

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Day	Phase	h m s	Remarks
8.	iP1 A	02 07 34.5	<u>Greece-Albania Border Region</u>
	iP2 A	07 35.8	40.74°N 20.17°E
	ei A	07 46.5	H = 02 04 49.1 h = 30 km MAG=4.7
	eiX A	08 27	D = 11.6° Az = 331.8° (USCGS)
	iS A	09 42.4	PV2:1.0s 33.2nm
	eiY A	10 33	LmV:15s 3.0 μ m
	LmH B	11.8	X and Y are very clear unidentified phases in the short-period records. P and S of a second shock in the same focus?
	LmV B	13.7	
8.	e(P) A	05 15 55	Probably Dodecanese Islands (UPP)
	LmH C	22	
	LmV B	24	
8.	eP A	09 54(52)	<u>Greece</u> 39.17°N 21.66°E
	e A	55 00	H = 09 51 43.1 h = 45 km MAG=4.4
	LmV B	10 01.2	D = 13.5° Az = 331.6° (USCGS)
	LmH B	01.3	LmH:13s 0.6 μ m LmV:12s 0.5 μ m MLH=3.9
			The second onset is much greater than the first one.
8.	iPg A	10 40 26.2	Explosion
	iSg A	40 42.0	D = ca. 1.2°
8.	eSg A	12 43 55	<u>Explosion/CSSR</u> BRATISLAVA gives: D = 75 km
8.	eP A	12 53(03)	<u>East of Severnaja Zemlja</u> 78.20°N 126.34°E
	e A	53 12.5	H = 12 44 44.8 h = normal MAG=4.5
	e A	53 44	D = 45.6° Az = 305.9° (USCGS)
			The first onset is much smaller than the second one.
8.	e(Sg) A	17 22 34.5	Probably explosion.
	e A	22 38.5	
	eL A	22 46	
	e A	22 51	

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Day	Phase	h m s	Remarks
8.	eP C	22 51 36	<u>West Caroline Islands</u> 12.21°N 140.78°E
	eP A	51 38.5	H = 22 37 39.5 h = 27 km MAG=5.3
	ePP C	55 51	D = 103.4° Az = 329.5° (USCGS)
	ePP A	55 55.5	LmH:16s 3.6/um LmV:17s 4.4/um
	eS C	23 02 13	MLH=6.0 MLV=6.1
	eS B	02 15.5	
	ePS C	04 57	
	iPS C	05 07	
	iPPS B	05 48	
	ePPS C	05 50	
	eSS C	10 40	
	eSSS C	14 40	
	eLQ C	23 28	
	eLR C	27.0	
	LmH B	41.9	
	LmV B	43.2	
9.	ePKP A	10 18 09.5	<u>Fiji Islands</u> 21.12°S 176.66°W H = 09 58 34.0 h = 118 km MAG=4.1 D = 149.8° Az = 349.5° (USCGS) PV:1.0s 14.2nm
9.	-eiP A	10 19 37.5	<u>Santiago del Estero Prov./Argentina</u>
	-eiP B	19 38	27.70°S 63.14°W
	-eiP C	19 39	H = 10 06 44.1 h = 578 km MAG=5.8
	epP B	21 46	D = 102.0° Az = 38.9° (USCGS)
	esP BC	22 44	PV(A):1.3s 55.6nm PV(B):10s 1.9/um
	+iPP B	23 52.5	PH(B):10s 0.6/um sPV(B):12s 1.4/um
	+iPP AC	23 54.5	PPV(B):8s 3.1/um sSPV(B):16s 9.9/um
	ei(pPP) BC	25 36	MPV(A)=6.0 MPV(B)=6.7 MPH(B)=6.5
	epPP C	25 44	MPP(B)=6.7
	isPP B	26 43.5	sSP is the greatest onset in our long- period records. Sa is very clear.
	eSKS B	29 16	
	eSKS C	29 22	
	e(S) B	30 26	
	eiS C	30 36	
	eiSP BC	32 00	
	ePS C	33 00	
	isSKS B	33 24	

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Day	Phase	h m s	Remarks
cont.			
9.	esS B	10 34 20	
	isS C	34 24	
	i(sSP) C	35 39	
	esSP BC	35 56	
	ePKKP A	36 12	
	epPKKP A	38 08	
	iSa C	48.0	
9.	e(Sg) A	12 48 44	<u>Explosion/GDR</u>
	iL A	48 47.5	LmH:1.2s 212nm LmV:1.2s 153nm
	LmH A	48 49	
	LmV A	48 49	
9.	iL A	12 49 22.0	<u>Explosion/GDR</u>
9.	iSg A	12 50 07.0	<u>Explosion/GDR</u>
	eiL A	50 09.5	LmH:1.2s 194nm LmV:1.2s 128nm
	LmH A	50 12	
	LmV A	50 12	
9.	eP B	14 57 56	<u>West Caroline Islands</u> 12.3°N 140.7°E
	ePP B	15 02 14	H = 14 43 57.7 h = normal MAG=5.4 (USCGS)
	ePS C	11 20	D = 103.3°
	eiPPS B	12 08	PPV:10s 0.5/um PPSV:12s 0.7/um
	ePPS C	12 10	LmH:17s 2.2/um LmV:18s 3.2/um
	eSS C	16 56	MPPV=6.0 MLH=5.8 MLV=5.9
	eSSS C	21.0	
	LQ C	30	
	LR C	33	
	LmH B	48.9	
	LmV B	49.4	
9.	ePKP A	17 12 02	<u>South Pacific Cordillera</u> 54.78°S 136.03°W
	e(pPKP) A	12 10	H = 16 52 01.3 h = normal MAG=5.4
	ePKP2 A	12 45	D = 160.1° Az = 88.6° (USCGS)
	epPKP2 A	12 57	LmH:19s 4.2/um LmV:19s 5.1/um
	ei A	13 20	MLH=6.2 MLV=6.4
	iPP B	16 26	(pPKP) is much stronger than PKP. X is a

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Day	Phase	h m s	Remarks
cont.			
9.	eX	B 17 17 00	clear unidentified phase following PP.
	ePP2	B 19 47	PP2 is the PP traveled along the longer
	eSKKS	C 23(15)	path to the station ($D2 = 360^\circ - D$).
	eSKSP	C 26 50	AN USSR gives: South Pacific Cordillera
	ePPS	C 29 40	$55.4^\circ\text{S } 139.1^\circ\text{W}$
	ePPPS	C 31 48	$H = 16\ 52\ 04$ $h = \text{normal}$
	eiSS	C 36 32	$D = 161.8^\circ$
	ePSS	C 37 28	
	eSSS	C 42 48	
	e(Sa)	C 57.1	
	LmH	B 18 18.9	
	LmV	B 18.9	
9.	LmV	C 23(25)	LmH:19s 0.3 μm LmV:20s 0.2 μm
	LmH	C (30)	
10.	LmH	C 03 38	
	LmV	C 38	
10.	e(P)	A 04 54 59	Near earthquake (Yugoslavia?)
	e(S)	A 57 30	TRIESTE gives: $D = 400$ km
	e	A 57 36	
	e	A 57 46.5	
10.	(LmH)	C 18 39	<u>Luzon/Philippine Islands (USCGS)</u>
11.	ePKP	A 01 42 28	<u>New Hebrides Islands</u> $21.35^\circ\text{S } 173.82^\circ\text{E}$
	e	A 42 37.5	$H = 01\ 22\ 43.7$ $h = 32$ km $\text{MAG}=4.8$
	LmH	C 02 46.5	$D = 147.6^\circ$ $\text{Az} = 338.7^\circ$ (USCGS)
	LmV	C 46.5	LmH:22s 0.2 μm LmV:24s 0.2 μm MLH=4.7 MLV=4.8
11.	+eiPKP	A 04 56 56.5	<u>Loyalty Islands</u> $21.36^\circ\text{S } 169.67^\circ\text{E}$
	e	A 57 04.5	$H = 04\ 37\ 16.4$ $h = 11$ km $\text{MAG}=5.0$
	e	A 57 11	$D = 146.1^\circ$ $\text{Az} = 334.8^\circ$ (USCGS)
	LmH	C 05 57.5	PV:1.8s 61.2nm
	LmV	C 57.5	LmH:25s 0.3 μm LmV:26s 0.3 μm MLH=4.9 MLV=4.9

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Day	Phase	h m s	Remarks
11.	eP	A 06 20 34	<u>West Pakistan</u> $27.48^\circ\text{N } 66.43^\circ\text{E}$
	epP	A 20 43	$H = 06\ 12\ 00.5$ $h = 36$ km $\text{MAG}=4.6$
	eX	A 20 54.5	$D = 47.2^\circ$ $\text{Az} = 314.8^\circ$ (USCGS); $h = 40$ km
	ePP	A 22 26	XV:1.1s 17.8nm
	LmH	B 44.2	LmH:16s 0.6 μm LmV:14s 0.3 μm
	LmV	B 46.8	MLH=4.6 MLV=4.5 X is the greatest onset in the short-period vertical component.
11.	eiP	A 07 04 07	<u>Algeria</u> $36.45^\circ\text{N } 2.82^\circ\text{E}$
	e	A 04 13.5	$H = 07\ 00\ 28.7$ $h = \text{normal}$ $\text{MAG}=4.6$
	e	A 04 16	$D = 15.5^\circ$ $\text{Az} = 21.3^\circ$ (USCGS)
	e	A 04 24	LmH:14s 0.5 μm LmV:10s 0.4 μm
	LmH	B 10.0	MLH=3.8 MLV=4.1
	LmV	B 11.9	
11.	ePKP	A 07 11(56)	<u>New Hebrides Islands</u> $21.37^\circ\text{S } 174.01^\circ\text{E}$
	e	A 12 11	$H = 06\ 52\ 11.5$ $h = 15$ km $\text{MAG}=4.8$
	e	A 12 48	$D = 147.7^\circ$ $\text{Az} = 338.9^\circ$ (USCGS)
	eSSS	C 40.0	LmH:22s 0.9 μm LmV:22s 0.9 μm
	LmH	B 08 16.0	MLH=5.4 MLV=5.5
	LmV	B 16	
11.	iPKP2	A 10 14 34.0	<u>South of Kermadec Islands</u> $32.8^\circ\text{S } 178.5^\circ\text{W}$
			$H = 09\ 53\ 54.2$ $h = 35$ km $\text{MAG}=4.4$ (USCGS)
			$D = 160.8^\circ$
11.	ePKP	A 10 34 14	<u>New Hebrides Islands</u> $21.31^\circ\text{S } 173.67^\circ\text{E}$
	e	A 34 25	$H = 10\ 14\ 30.4$ $h = 34$ km $\text{MAG}=4.8$
	e	A 35 10	$D = 147.5^\circ$ $\text{Az} = 338.6^\circ$ (USCGS)
	LmH	C 11 38	
	LmV	C 38	
11.	ePKP	A 11 33 27.5	<u>New Hebrides Islands</u> $18.67^\circ\text{S } 169.25^\circ\text{E}$
			$H = 11\ 14\ 23.7$ $h = 245$ km $\text{MAG}=5.0$
			$D = 143.5^\circ$ $\text{Az} = 336.0^\circ$ (USCGS)
11.	eP1	A 13 03 10	<u>Mongolia</u> $45.00^\circ\text{N } 99.30^\circ\text{E}$
	eP2	A 03 14.5	$H = 12\ 53\ 34.6$ $h = \text{normal}$ $\text{MAG}=4.8$

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Day	Phase	h m s	Remarks
cont.			
11.	ePcP	A 13 04 09	D = 55.8° Az = 309.7° (USCGS)
	ePP	A 05 12	LmH:13s 0.7/um LmV:13s 0.6/um
	LmH	B 27.6	MLH=4.9 MLV=4.9
	LmV	B 28.0	e 04 15 ei 06 27.5
			Multiple P. P1 is much smaller than P2.
11.	eSg	A 14 58 48	Probably explosion.
11.	e	A 15 49 36.5	Explosion?
	ei	A 49 39	
	ei	A 49 43	
	ei	A 49 52	
11.	e(Sg)	A 17 33 16.5	Near earthquake?
	e	A 33 26.5	
	e	A 33 37	
11.	eP	A 20 05 31.5	Red Sea 20.33°N 38.67°E H = 19 58 23.2 h = normal D = 37.0° Az = 331.3° (USCGS)
11.	ePKP	A 21 40(45)	Tonga Islands 17.55°S 173.06°W
	e	A 41 16	H = 21 21 02.8 h = normal MAG=4.2 (USCGS) D = 146.7°
11.	eP	A 23 47 15	Jan Mayen Islands 71.18°N 6.14°W
	LmV	B 58.5	H = 23 42 21.6 h = normal MAG=4.4 D = 22.2° Az = 149.0° (USCGS)
12.	eP	A 00 35 11	South Atlantic Ridge 22.78°S 10.48°W
	e	A 35 24	H = 00 23 27.7 h = normal MAG=4.9
	e	A 35 29	D = 75.7° Az = 14.3° (USCGS)
	e	A 35 41	LmH:18s 0.8/um LmV:18s 1.2/um
	ei	A 35 57	MLH=5.1 MLV=5.3
	LmV	B 01 08.2	
	LmH	B 08.5	

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Day	Phase	h m s	Remarks
12.	+iP	A 02 55 33.2	Kurile Islands 44.64°N 149.80°E
	e	A 55 38.5	H = 02 43 33.1 h = 25 km MAG=5.1
	iPoP	A 55 41.3	D = 78.4° Az = 334.3° (USCGS)
	ei	A 55 45.5	PV:1.2s 71.4nm
	ei	A 55 55	LmH:19.5s 0.6/um LmV:18s 0.4/um
	LmH	C 03 29.9	MPV=5.7 MLH=4.9 MLV=4.8
	LmV	C 35.0	
12.	e(P)	A 08 29 11	
12.	e(Pb)	A 09 32 34.5	Taunus/GFR 50.1°N 7.9°E
	ePg	A 32 39	H = 09 31 49 (BCIS)
	iSn	A 32 58.0	D = 2.5°
	e	A 33 04	
	eiSg	A 33 07.5	
12.	e(Sg)	A 10 34 29.5	
	LmV	A 34 55	
12.	-eiP	A 11 21 28.5	Ascension Islands 4.98°S 11.46°W
	epP	A 21 35.5	H = 11 11 31.3 h = normal MAG=4.9
	LmH	C 44	D = 58.9° Az = 17.0° (USCGS); h = 28 km
	LmV	C 45	PV:1.1s 19.2nm MPV=5.1
12.	e(P)	A 13 00 36	
12.	iP1	A 14 49 52	Greece 39.29°N 21.22°E
	iP2	A 50 00.0	H = 14 46 41.3 h = 14 km MAG=4.5
	e	A 52 08	D = 13.2° Az = 332.3° (USCGS)
	eS	A 52 17	Multiple P, P1 much smaller than P2. It
	e(SS)	A 52 35	is possible that e(SS) is the Sg of a
	e	A 53 47	small explosion.
	LmH	B 54.6	
	LmV	B 56.3	
12.	e(P)	A 16 18 38	(P)V:0.9s 14.2nm
12.	iSg	A 16 45 18	
	LmV	A 45 35	

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Day	Phase	h m s	Remarks
12.	ePKIKP	A 22 08 42	<u>New Britain Region</u> 5.49°S 151.70°E
	epPKIKP	A 08 52	H = 21 49 47.6 h = 50 km MAG=5.2
	eiPP	C 10 31	D = 124.0° Az = 330.5° (USCGS); h = 36 km
	ePPP	C 13 08	PSH:24s 1.5 μ m
	eSKKS	C 17.5	LmH:22s 3.1 μ m LmV:19s 3.6 μ m
	ePS	C 20 24	MLH=5.9 MLV=6.1
	eSPP	C 21 52	
	ePKKS	C 22 46	
	eSS	C 27 30	
	ePSS	C 27 52	
	eSSS	C 32 20	
	LmH	B 23 04	
	LmV	B 06.7	
	13.	iSg	A 12 47 23.5
LmH		A 47 45	
LmV		A 48 00	
13.	iSg	A 12 51 43.5	<u>Explosion/GDR</u>
	eiL	A 51 46.3	
13.	eL	A 12 51 58.5	<u>Explosion/GDR</u>
13.	iPg	A 13 55 47.8	Explosion
	iSg	A 55 56.5	D = 0.7°
	eiL	A 56 05	SgV:0.8s 47.2nm
	LmH	A 56 11	LmV:1.4s 135nm
	LmV	A 56 11	
13.	e	A 15 28 07	
13.	iPg	A 16 59 40.0	Explosion
	eiSg	A 59 59	D = 1.4°
13.	+eP	A 18 52 59	<u>Near Islands/Aleutian Is.</u> 52.70°N 172.45°E
	ei	A 53 09	H = 18 41 15.4 h = 34 km MAG=5.7
	ePS	C 19 03 20	D = 75.8° Az = 347.5° (USCGS)
	eSS	C 07 44	PV:1.4s 90.5nm
	LmH	B 24.0	LmH:22s 1.6 μ m LmV:24s 1.4 μ m
	LmV	B 24.0	MPV=5.7 MLH=5.3 MLV=5.2

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Day	Phase	h m s	Remarks
13.	eSP	B 20 26 09	<u>South Sandwich Islands</u> 56.0°S 27.4°W
	eSS	C 32.3	H = 19 57 47.9 h = 148 km MAG=5.3 (USCGS) D = 111.1°
13.	eP	A 20 27 09.5	PV:1.4s 15.4nm
13.	e(P)	A 23 16 48	
14.	ePKIKP	A 01 01 31	<u>South of Kermadec Islands</u> 32.9°S 178.4°W
	eiPKP2	A 02 19	H = 00 41 40.7 h = 40 km (USCGS)
	ei	A 02 27	D = 160.9°
14.	e(P)	A 11 02 13	
14.	LmH	B 11 24	LmH:18s 1.1 μ m LmV:16s 0.5 μ m
	LmV	B 30.2	
14.	e(Sg)	A 13 03 00	Explosion
	LmH	A 03 21	
14.	e(P)	A 13 20 47	
14.	e(P)	A 13 23 01	
14.	eP	A 14 36 15.5	<u>Southern Greece</u> 36.1°N 21.9°E
	e	A 36 24.5	H = 14 32 31.0 h = 102 km MAG=4.5 (USCGS)
	LmH	B 43.7	D = 16.4°
	LmV	B 43.9	PV:1.1s 9.6nm LmH:17s 0.9 μ m LmV:17s 0.9 μ m MLH=4.0 MLV=4.2
14.	eSKS	C 14 39 32	<u>Off Coast of Ecuador</u> 1.6°N 84.9°W
	eS	C 40.2	H = 14 16 06.0 h = 40 km MAG=4.8 (USCGS)
	ePS	C 41 35	D = 92.9°
	e	C 45 55	LmH:24s 1.9 μ m LmV:24s 2.2 μ m
	eSS	C 46 45	MLH=5.5 MLV=5.6
	e(SSS)	C 50.4	
	LmH	B 15 04	
LmV	B 04		

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Day	Phase	h m s	Remarks
14.	+eP A	14 57 20.5	<u>Southern Iran</u> 28.44°N 57.12°E H = 14 49 41.9 h = normal MAG=4.7 D = 40.7° Az = 315.8° (USCGS) PV:1.1s 12nm MPV=4.7
14.	ePKIKP A	15 54 29	<u>New Hebrides Islands</u> 15.36°S 167.48°E H = 15 35 17.3 h = 142 km MAG=4.9 D = 139.8° Az = 336.2° (USCGS)
14.	e(P) A	19 02 21.5	<u>Southern Greece</u> 36 1/4°N 21 1/2°E H = 18 58 24 (BCIS) D = 16.1° (P)V:1.3s 11.1nm LmH:16s 0.6/um LmV:16s 0.8/um MLH=3.9 MLV=4.2 The first onset of P must be about 12 s earlier than e(P).
14.	ePg A	20 22 38	<u>Swiss</u> 46.4°N 7.4°E
	iSn A	23 06.3	H = 20 20 58 (BCIS)
	eSg A	23 39.5	D = 5.1°
15.	eP A	00 40 59	<u>Near East Coast of Honshu/Japan</u> 35.63°N 140.43°E
	i A	41 07	
	epP A	41 11	H = 00 28 39.8 h = 59 km MAG=5.2 (USCGS)
	esP B	41 18	D = 82.8° h = ca. 50 km
	ePP B	44 10	PV:2.6s 125.0nm
	esPP B	44 28	LmH:16s 1.9/um LmV:17s 1.5/um
	eS C	51 14	MPV=5.6 MLH=5.6 MLV=5.4
	eScS C	51 30	
	ePPS C	52 30	
	eSS C	56.9	
	eSSS C	01 00 20	
	LmH B	20.5	
	LmV B	21	
15.	e A	01 40 30	
	e A	40 37	
	e A	40 43.5	

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Day	Phase	h m s	Remarks
15.	e A	08 32 51	
15.	e A	09 09 54.5	
15.	e(P) A	09 30 55.5	(P)V:0.8s 9.4nm
15.	e(P) A	10 26 26	(P)V:0.8s 9.4nm
15.	+eiP A	10 43 13.0	<u>Bhutan</u> 27.40°N 91.80°E
	e A	43 16	H = 10 32 48.7 h = 57 km MAG=5.8 (USCGS)
	ipP A	43 19.0	D = 64.3° h = 23 km
	isP A	43 21.3	PV:1.3s 137nm pPV:1.0s 54.5nm
	ePoP A	43 49	sPV:2.0s 187nm
	ePP A	45 30	LmH:13.5s 1.7/um LmV:14s 1.7/um
	iS C	51 45	MPV=6.0 MLH=5.5 MLV=5.4
	eScS C	53.1	pP has a distinctly shorter period than P.
	eSS C	55(44)	If the phase interpreted above as sP would
	eSSS C	58(40)	be really pP than h = 33 km.
	LmV B	11 13	
	LmH B	14.5	
15.	e(P) A	11 12 18.5	
15.	eL A	13 53 06	Explosion
	e A	53 08	
15.	ei A	14 53 29	
15.	ei A	18 26 18	
15.	i(P) A	22 10 03.5	
16.	eP A	00 09 51	<u>Taiwan</u> 24.08°N 120.70°E
	epP A	10 00.5	H = 23 57 30.1 h = 50 km MAG=5.0
	LmH C	51.7	D = 83.0° Az = 322.7° (USCGS); h = 35 km
	LmV C	51.7	PV:1.4s 16.7nm pPV:1.9s 36.7nm LmH:17s 0.6/um LmV:16s 0.7/um MPV=5.0 MLH=5.1 MLV=5.2

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Day	Phase	h m s	Remarks
16.	ePP	A 03 59 46.5	<u>Ceram Sea</u> 2.0°S 128.9°E
	ePS	C 09 00	H = 03 40 55.3 h = 50 km MAG=5.4 (USCGS)
	eSSS	C 19.2	D = 108.6°
	LmH	C 04 41.6	LmH:27s 0.6/um LmV:18s 0.5/um
	LmV	C 50.8	MLH=5.1 MLV=5.1
16.	+1P	A 04 11 44.0	<u>Eastern Kazakh SSR</u> 50.01°N 77.82°E
	e	A 12 19.5	H = 04 03 58.0 h = 0 km MAG=5.3 D = 41.0° Az = 297.4° (USCGS) PV:0.65s 33.2nm MPV=5.4 Underground explosion.
16.	iPg	A 06 54 37.4	<u>Rock burst/Peißenberg, GFR</u> 47.8°N 11.1°E
	eiSg	A 55 15	H = 06 53 42 (BCIS) D = 2.9°
16.	eipP	A 08 44 04	<u>Andreanof Is./Aleutian Is.</u> 52.0°N 176.4°W
	e	A 44 31	H = 08 31 58.4 h = 65 km MAG=5.4 (USCGS)
	e	A 44 48.5	D = 77.3°
	LmV	C 09 12.5	LmH:30s 0.5/um LmV:30s 0.6/um
	LmH	C 12.8	MLH=4.7 MLV=4.8
16.	ei	A 10 45 41	Explosion?
	e	A 45 57	
16.	LmH	C 10 55	Traces. LmH:24s 0.2/um LmV:23s 0.3/um
	LmV	C 55	
16.	ei(P)	A 11 33 07	
16.	eL	A 13 36 11	<u>Explosion/GDR</u>
16.	LmH	A 13 36 20	<u>Explosion/GDR</u>
	LmV	A 36 20	LmH:1.1s 220nm LmV:1.1s 202nm
16.	eiL	A 13 36 38	<u>Explosion/GDR</u>
16.	eiL	A 13 36 47	<u>Explosion/GDR</u>

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Day	Phase	h m s	Remarks
16.	eS	C 18 48 12	<u>South of Panama</u> 5.3°N 82.4°W
	ePS	C 49.4	H = 18 24 47.9 h = normal MAG=4.6 (USCGS)
	eSS	C 54.3	D = 88.5°
	LmV	C 19 09.5	LmH:25s 0.4/um LmV:24s 0.3/um
	LmH	C 10	MLH=4.7 MLV=4.7
16.	e(Sn)	A 20 21 34	<u>Little Carpathians.</u> Provisional epicentre
	e(Sb)	A 21 48	48.6°N 17.3°E
	eSg	A 22 05.5	H = 20 19 43 (PRUHONICE)
	e	A 22 13	D = 4.2°
16.	ePKP2	A 23 51 18	<u>Kermadec Islands</u> 31.5°S 179.8°E
			H = 23 31 27.3 h = 377 km MAG=4.0 (USCGS) D = 158.9°
17.	ePKP	A 01 41 13.5	<u>Tonga Islands</u> 18.56°S 174.98°W
	e	A 41 24	H = 01 21 52.4 h = 200 km MAG=4.1 D = 147.6° Az = 352.2° (USCGS)
17.	LmH	C 02 08.5	<u>Bonin Islands</u> 27.5°N 142.4°E
	LmV	C 08.7	H = 01 09 08.4 h = 33 km MAG=4.8 (USCGS) D = 90.8° LmH:16s 0.2/um LmV:14s 0.2/um MLH=4.7 MLV=4.7
17.	eiP	A 08 09 02	<u>Chiapas/Mexico</u> 17.24°N 94.08°W
	eipP	A 09 17	H = 07 56 22.7 h = 45 km MAG=5.2 (USCGS)
	epPP	A 12 40	D = 86.2° h = 56 km
	eS	C 19 26	PV:1.9s 60nm pPV:2.4s 91nm
	eSS	C 25.2	LmH:20s 0.5/um LmV:20.5s 0.6/um
	eLQ	C 32.0	MPV=5.5 MLH=4.9 MLV=5.0
			i 10 10
17.	LmH	C 17 38.3	Probably Gulf of California (USCGS)
	LmV	C 38.5	
17.	LmH	C 22 21	Traces. Probably Mid-Indian Rise (USCGS)

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Day	Phase	h m s	Remarks
18.	eP A	02 10 43	<u>Ethiopia</u> 15.69°N 39.03°E H = 02 02 59.8 h = normal MAG=4.8 D = 41.3° Az = 333.6° (USCGS)
18.	LmH C LmV C	07 47 52.3	Traces. Gulf of California (USCGS)
18.	iPg A iSg A	09 35 30.8 35 32.7	<u>Explosion/GDR</u> D = 16 km SgV:0.7s 394nm
18.	eiPg A eiSg A ei A LmH A LmV A	15 02 46 02 56 02 59.5 03 07 03 09	<u>Explosion/Tabarz, GDR</u> Yield: 6.2 t D = 0.8°
18.	ePKIKP A ePP A ePP C ePS C eSPP C eSS C eSSP C eSSS C eLQ C LmH C eLR C LmV C	15 51 57 53 29 53 31 16 03 25 04 44 10 12 10 32 15 00 23.5 30.5 32.5 46.5	<u>East New Guinea Region</u> 5.9°S 146.6°E H = 15 33 06.5 h = 39 km MAG=5.5 (USCGS) D = 121.8° LmH:44s 2.8 μ m LmV:22s 2.0 μ m MLH=5.3 MLV=5.5 e 53 48 e 54 43 e 11 00 e 16 28 e 19 30 AN USSR gives: New Guinea 6.0°S 146.8°E H = 15 33 20 h = 176 km D = 122.1°
18.	eSg A LmH A LmV A	17 03 31 03 44 03 44	
18.	e(P) A	17 41 46	
18.	ePKHKP A e A	19 32 37.5 32 49	<u>Fiji Islands</u> 20.72°S 178.37°W H = 19 13 52.5 h = 562 km MAG=4.0 D = 149.1° Az = 347.6° (USCGS) PV:1.2s 15.3nm

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Day	Phase	h m s	Remarks
18.	eSg A e A e A	22 52 24.5 52 27 52 37	<u>Rock burst/Upper Silesia (KRAKOW)</u>
19.	ePKHKP A e A	01 05 12 05 41	<u>South of Fiji Islands</u> 24.65°S 177.34°W H = 00 45 31.1 h = 139 km MAG=4.7 D = 153.1° Az = 347.3° (USCGS) PV:1.2s 12.8nm
19.	eiP A ipP A LmH C LmV C	03 41 13.4 41 23.8 04 21.5 21.5	<u>Near East Coast of Honshu/Japan</u> 37.27°N 141.69°E H = 03 28 57.4 h = 53 km MAG=4.9 D = 82.1° Az = 330.5° (USCGS); h = 39 km PV:1.1s 9.6nm MPV=4.8
19.	e(P) A	08 11 25	
19.	ei(Pg) A eiSg A ei A	09 02 26 03 05.5 03 09.5	Explosion? (D = 3.0°) PRUHONICE gives: iPg 09 01 55 iSg 02 14 D = 1.5°
19.	+iP B eiP1 A +iP2 A +ipP B eipP A ei(sP) A ePP AC eS B iS ABC iScS C i(sS) BC eiSS BC eSSS C iSa B eLQ C eLR C	11 08 01 08 01 08 04.1 08 21.6 08 23 08 35 10 57.5 17 43 17 48 18 08 18 36 22 52 26 14 27 36 29.0 33.0	<u>Hokkaido/Japan</u> 42.97°N 145.17°E H = 10 56 08.6 h = 84 km MAG=5.9 D = 78.4° Az = 331.9° (USCGS); h = ca. 85 km PV:8s 2.2 μ m PV2:1.5s 476nm SH(B):11s 4.8 μ m LmH:16.5s 9.0 μ m LmV:17s 6.4 μ m MPV=6.1 MPV2=6.2 MSH=6.5 MLH=6.2 MLV=6.1 Multiple P in the short-period records, P2 much greater than P1.

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Day	Phase	h m s	Remarks
cont.			
19.	LmH B	11 42.7	
	LmV B	47.0	
19.	ePKIKP A	13 03 50	<u>South Sandwich Islands Region</u>
	ePP A	04 47	57.8°S 23.4°W
	LmH C	49.4	H = 12 45 35.3 h = normal MAG=5.7 (USCGS)
	LmV C	49.5	D = 111.7° LmH:18s 0.7/um LmV:18s 1.0/um MLH=5.3 MLV=5.5
19.	eiP A	19 14 42	<u>Southern Sumatra</u> 1.56°S 100.51°E
	e A	14 55.5	H = 19 01 47.5 h = 83 km MAG=5.0
	e(pP) A	15 03	D = 90.5° Az = 320.5° (USCGS); (h = 79 km)
	e A	15 11	PV:1.7s 74.5nm
	eS C	25.6	MPV=5.6
	eLQ C	38.5	If we interpret e 14 55.5 as pP then the
	LmH C	20 00	focal depth would be h = 50 km.
19.	eSS C	19 59 12	<u>Atlantic-Indian Rise</u> 36.3°S 52.2°E
	LmH C	20 21.8	H = 19 28 45.2 h = normal MAG=5.4 (USCGS) D = 93.7° LmH:23s 0.4/um MLH=4.8
20.	iP A	00 44 57.7	<u>Honshu/Japan</u> 35.99°N 139.86°E
	e(pP) A	45 09.5	H = 00 32 44.3 h = 94 km MAG=4.9
	ei A	45 16	D = 82.4° Az = 329.7° (USCGS); (h = 44 km)
	e A	45 31.5	PV:1.5s 23.5nm pPV:1.7s 21.9nm MPV=4.8 AN USSR gives: Japan 35.6°N 140.2°E H = 00 32 35 h = normal D = 82.8°
20.	iPn A	06 11 04.3	<u>Yugoslavia</u> 44.27°N 17.70°E
	eiSn A	12 26	H = 06 09 10.7 h = 11 km MAG=4.2
	e(Sb) A	12 50	D = 7.6° Az = 329.3° (USCGS)
	e A	12 57	LmH:12s 0.7/um
	e(Sg) B	13 16	MLH=3.5
	LmH B	13.5	

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Day	Phase	h m s	Remarks
20.	ePKIKP B	09 59 11.5	<u>Auckland Islands</u> 49.78°S 163.43°E
	ePKIKP A	59 12	H = 09 39 15.2 h = 30 km MAG=6.1
	i B	59 26	D = 162.0° Az = 283.6° (USCGS)
	e(PKP2) A	10 00 02	PV(A):2.7s 286nm
	i B	00 14	LmH:18s 9.4/um LmV:20s 9.7/um
	ePP C	03 50	MLH=6.6 MLV=6.6
	ePPP C	07 25	e 59 22 i 59 53 e 00 09 e 03 55
	eiSS B	24 14	PKIKP has unusually long periods (T =
	iPSS C	25 08	2 - 4 s) in our short-period records
	eSS2 C	29 42	(Z-component). PKP2 is not clear.
	iSSS B	30 24	AN USSR gives: 49.2°S 166.2°E
	LmH B	11 22.4	H = 09 39 13 h = normal MAG=6.5
	LmV B	22.4	D = 163.5°
20.	ePKIKP A	10 50 51	<u>Auckland Islands</u> 49.78°S 163.44°E
	ePKP2 A	51 41.5	H = 10 30 53.4 h = 19 km MAG=5.8
	e A	51 55	D = 162.0° Az = 283.6° (USCGS)
	e A	52 16.5	PV:2.5s 203nm
	e A	52 54	
20.	eiPKP A	10 56 43.5	<u>New Hebrides Islands</u> 20.81°S 169.83°E
	epPKP A	57 18	H = 10 37 20.3 h = 129 km MAG=5.9
	eisPKP A	57 29.5	D = 145.6° Az = 335.3° (USCGS); h = 125 km
	iPP A	11 00 11.5	PV1:1.6s 98.4nm PV3:1.5s 134nm
	e(pPP) A	00 43	pPKP is much smaller than sPKP. If we in-
			terpret ei 57 29.5 as pPKP then the focal
			depth will be h = 176 km.
20.	ePKP2 A	12 27 45.5	<u>Auckland Islands Region</u> 49.8°S 163.8°E
	e A	27 48	H = 12 06 52.7 h = normal MAG=5.2 (USCGS)
	e A	27 55	D = 162.0° PV:1.2s 13.8nm
20.	iSg A	12 54 32.0	<u>Explosion/GDR</u>
	eiL A	54 34.5	
20.	iL A	12 54 45.0	<u>Explosion/GDR</u>
20.	iL A	12 54 55.0	<u>Explosion/GDR</u>

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Day	Phase	h m s	Remarks
20.	e(Sg) A	16 35 55.5	
20.	eP A	17 24 07	<u>North Atlantic Ocean</u> 23.7°N 44.2°W H = 17 14 30.4 h = normal MAG=4.5 (USCGS) D = 36.8°
20.	ePn A	22 45 21.5	<u>Little Carpathians/ČSSR</u> 48.4°N 17.1°E
	e A	45 26.5	H = 22 44 14 (BCIS)
	e A	46 17	D = 4.2°
	eSb A	46 24	PnV:0.8s 10.4nm
	iSg A	46 34.0	
21.	e(P) A	05 52 27	
	e A	52 34	
21.	e(Pg) A	11 12 56	Explosion
	e(Sg) A	13 11	(D = ca. 1.1°)
22.	+iP A	05 11 44	<u>Eastern Kazakh SSR</u> 50.03°N 77.61°E
	ePn A	13 17	H = 05 03 57.9 h = 0 km MAG=5.3 D = 40.9° Az = 297.2° (USCGS) PV:0.6s 28.5nm MPV=5.3 Underground explosion.
22.	iP A	08 17 54.5	<u>Central Mid-Atlantic Ridge</u>
	epP A	18 01.5	0.68°S 20.05°W H = 08 08 04.3 h = normal MAG=5.3 D = 57.8° Az = 23.3° (USCGS); h = 28 km PV:1.4s 61.3nm MPV=5.5
22.	e A	08 24 16	Traces. Probably near earthquake.
	e A	24 41	TRIESTE gives: D = 600 km
	e A	24 55	
	e A	25 13	
22.	e(P) A	10 29 43	Explosion? (P)V:0.9s 14.3nm

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Day	Phase	h m s	Remarks
22.	+iP AB	10 29 56.3	<u>Kurile Islands</u> 44.51°N 149.41°E
	eIPcP A	30 06.5	H = 10 17 59.9 h = 60 km MAG=5.6
	i A	30 21.5	D = 78.4° Az = 334.1° (USCGS)
	eS B	39 44	PV(A):1.3s 144.5nm PV(B):6s 1.3/um
	eSS C	44 56	LmH:17.5s 8.7/um LmV:18s 8.4/um
	LQ C	51	MPV(A)=5.9 MPV(B)=6.2 MLH=6.2 MLV=6.1
	LmH B	11 08.5	e 40 08 e 40 20 e 49(00)
	LmV B	08.5	
22.	iP A	11 31 21.5	<u>Kurile Islands</u> 44.3°N 149.4°E
	e A	31 34	H = 11 19 21.4 h = 50 km MAG=4.4 (USCGS)
	LmH B		D = 78.4° h = 47 km
22.	+eP A	12 46 49.5	<u>Kurile Islands</u> 44.42°N 149.36°E
	e A	46 55.5	H = 12 34 51.6 h = 51 km MAG=4.8
	epP A	47 03	D = 78.4° Az = 334.1° (USCGS); h = 51 km
	e A	47 06	PV:1.3s 38.9nm
	LmH B	13 20.5	MPV=5.4
22.	e(P) A	16 56 26	
22.	LmH C	20 43	<u>Tibet</u> 31.9°N 94.6°E H = 20 09 13 h = normal (USCGS) D = 61.8° LmH:27s 0.2/um MLH=4.2
22.	eIP A	22 19 48	<u>Hindu Kush</u> 36.2°N 71.4°E
	e A	19 58	H = 22 11 48.3 h = 127 km MAG=4.7 (USCGS) D = 44.6°
23.	LmH C	00(56.5)	Traces. Northern Easter Is. Cordillera (USCGS)
23.	ePKP A	03 41 36	<u>Fiji Islands</u> 17.70°S 178.68°W H = 03 22 59.7 h = 567 km MAG=5.0 D = 146.1° Az = 348.2° (USCGS)

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Day	Phase	h m s	Remarks
23.	ePKIKP A	07 15 21.5	<u>Fiji Islands</u> 21.78°S 179.67°W
	eIPKHKP A	15 27.5	H = 06 56 43.6 h = 595 km MAG=5.4
	ePKP2 A	15 36	D = 149.9° Az = 345.6° (USCGS);
	epPKP A	17 42	h = ca. 610 km
	e A	17 47	AN USSR gives: Fiji Islands Region
	e A	17 52	23.3°S 178.8°W
	e A	17 59	H = 06 55 38 h = normal MAG=5.4 D = 151.5° PV2:1.2s 102nm PV3:1.2s 61.2nm
23.	e(PKP) A	07 21 52	<u>Auckland Islands</u> 49.70°S 164.03°E
	ePKIKP B	22 01	H = 07 02 03.3 h = 15 km MAG=5.7
	ePKP2 B	22 50	D = 162.3° Az = 283.6° (USCGS)
	ePP C	26 36	LmH:30s 0.6 μ m LmV:22s 0.7 μ m
	ePPP C	30 16	MLH=5.1 MLV=5.4
	eSKKS C	33 20	
	eSKSP C	37.0	
	ePPS C	40.2	
	eSS C	46 52	
	ePSS C	47 52	
	eSSS C	53.0	
	e C	53.5	
	LmH C	08 31	
LmV C	38		
23.	ePKHKP A	07 58 32.5	<u>South of Fiji Islands</u> 22.08°S 179.67°W
	ePKP2 A	58 41	H = 07 39 47.8 h = 600 km MAG=4.6 D = 150.2° Az = 345.6° (USCGS) PV1:1.3s 33.3nm PV2:1.2s 28.0nm
23.	eiPg A	09 01 07.5	<u>Explosion/CSSR</u> 50°29'N 13°57.2'E
	iSg A	01 27.2	Yield: 6 t (PRUHONICE) D = 1.5°
23.	eiL A	13 32 59	<u>Explosion/GDR</u>
23.	iSg A	13 33 19.0	<u>Explosion/GDR</u>
	iL A	33 21.6	
23.	eiL A	13 33 43.5	<u>Explosion/GDR</u>

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Day	Phase	h m s	Remarks
23.	iL A	13 33 57.0	<u>Explosion/GDR</u>
	LmH A	33 59.5	LmH:1.2s 190nm LmV:1.3s 128nm
	LmV A	33 59.5	
23.	iPg A	14 10 24.0	<u>Explosion/GDR</u>
	iSg A	10 29.0	D = 0.4°
	iL A	10 32	
	LmH A	10 33.5	
	LmV A	10 33.5	
23.	e(P) A	15 46 32	
23.	ePKP A	23 03 05	<u>Kermadec Islands</u> h = 380 km (UPP)
24.	LmH C	01 56	<u>North of Halmahera (USCGS)</u>
24.	e A	13 26(11)	Probably near earthquake.
	e A	26 15	TRIESTE gives: iPg 13 24 42.8 iSg 24 50.8
	e(Sg) A	27 01	D = 60 km
24.	eP A	17 13 39	<u>Morocco</u> 32.47°N 5.72°W
	e A	14 05	H = 17 08 41.8 h = normal MAG=4.3 D = 22.2° Az = 30.1° (USCGS)
24.	e(P) A	18 49 08	Near earthquake.
	eiSg A	49 51	TRIESTE gives: D = 190 km
24.	LmH C	21 16.0	<u>Bonin Islands</u> 27.6°N 141.5°E
	LmV C	16	H = 20 17 49.4 h = normal MAG=4.5 (USCGS) D = 90.4° LmH:16s 0.2 μ m MLH=4.7
24.	eP A	21 52 38	PV:1.5s 20.1nm
24.	eP A	22 13 57	<u>Albania</u> 40.80°N 19.70°E
	e C	17 49	H = 22 11 17.0 h = 16 km MAG=4.4
	LmV B	19.9	D = 11.3° Az = 332.9° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
24.	LmH B	22 20	LmH:15s 1.1/um LmV:18s 1.1/um MLH=3.9
24.	ePn A	22 29 05	<u>Alps near Bergamo</u> 46.0°N 9.4°E
	iPg A	29 20.5	H = 22 27 48 (BCIS)
	iSn A	29 58.0	D = 4.9°
	eLg1 A	30 23.5	LmH:8s 0.8/um LmV:8s 1.0/um
	e(Sg) A	30 26	MLH=3.4
	eLg2 A	30 30	ei 29 28 ei 29 57 e 30 29
	LmH B	31 10	Very clear Sn.
	LmV B	31 10	
25.	ePKP A	04 57 56	<u>Tonga Islands</u> 15.10°S 173.35°W
	epPKP A	58 12	H = 04 38 26.2 h = 63 km MAG=5.0 D = 144.3° Az = 354.6° (USCGS); h = 57 km
25.	ePKP A	06 37 20	<u>Fiji Islands</u> 20.29°S 177.72°W
			H = 06 18 26.1 h = 462 km MAG=4.2 D = 148.8° Az = 348.5° (USCGS)
25.	LmH B	08 45	<u>Leeward Islands</u> (USCGS)
	LmV B	45	
25.	e A	09 02 46	<u>Leeward Islands</u> 17.67°N 61.59°W
	eS C	11 18	H = 08 51 49.4 h = 48 km MAG=4.8
	eScS C	12 28	D = 65.9° Az = 41.9° (USCGS)
	eLQ C	18 40	LmH:20s 0.6/um LmV:20s 0.8/um
	LmH B	21.4	MLH=4.8 MLV=4.9
	LmV B	26.5	
25.	e A	09 29 15	
25.	eiL A	11 01 07	Explosion
25.	e(P) A	13 16 46	<u>Talau Islands</u> 3.60°N 126.61°E
			H = 13 03 06.9 h = 78 km MAG=5.3 D = 102.7° Az = 323.7° (USCGS)

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Day	Phase	h m s	Remarks
25.	iPg A	14 27 07.5	Explosion
	eiSg A	27 23	D = ca. 1.2°
25.	LmH C	17 59	Traces. East New Guinea Region (USCGS)
25.	eP A	19 56 36.5	<u>Kenai Peninsula, Alaska</u> 60.30°N 151.38°W
			H = 19 45 40.6 h = 70 km MAG=4.0 D = 68.6° Az = 11.5° (USCGS) PV:1.3s 16.7nm MPV=5.1
25.	e A	22 07 16	Traces
	e A	07 37.5	
	e A	07 45.5	
25.	eiPg A	20 48 08	Explosion
	iSg A	48 15	D = 0.5°
26.	eP A	05 08 15	<u>Yugoslavia</u> 41.70°N 21.18°E
	e A	08 24.5	H = 05 05 36.2 h = 39 km MAG=4.4
	e B	11 40	D = 11.1° Az = 326.8° (USCGS)
	eLg2 A	11 48	LmH:11.5s 1.2/um LmV:12s 1.2/um
	e B	12 27	MLH=3.1
	LmH C	13.0	AN USSR gives: Yugoslavia 43.3°N 22.2°E
	LmV C	13.0	H = 05 05 54 h = normal MAG=ca.4 D = 10.5°
26.	eP A	06 58 49	<u>Kurile Islands</u> 46.93°N 150.56°E
	e A	58 53	H = 06 47 11.6 h = 136 km MAG=4.7
	e A	58 59	D = 76.6° Az = 334.6° (USCGS)
	e A	59 06.5	PV2:1.0s 14.2nm
	e A	59 32	MPV2=5.1
			The first onset of P is much smaller than the second one.
26.	e A	07 18 22.5	
26.	eP A	11 11 32.5	

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Day	Phase	h m s	Remarks
26.	e(pPP)	A 11 30 45	<u>Chile-Argentina Border Region</u>
	eS	C 38 00	33.6°S 70.5°W
	eSS	C 45 35	H = 11 11 23.7 h = 84 km MAG=5.8 (USCGS)
	e	C 49 05	D = 110.6°
	eSSS	C 49(50)	LmH:20s 0.3/um LmV:20s 0.4/um
	eLQ	C 56	MLH=4.8 MLV=5.0
	LmV	B 12 16.4	
	LmH	B 17.5	
26.	e(P)	A 11 58 38.5	
26.	eP	C 16 25 40	<u>Near Coast of Central Chile</u>
	ePKIKP	A 29 49	30.04°S 71.53°W
	eiPP	B 30 10	H = 16 11 23.9 h = 55 km MAG=5.7
	eiPP	A 30 11	D = 108.6° Az = 41.8° (USCGS)
	epPP	A 30 24.5	PPV(B):5s 0.8/um pPPV:2.1s 76nm
	esPP	A 30 30	sPPV:2.2s 175nm
	eSKS	C 36 20	LmH:17.5s 5.5/um LmH:20s 7.5/um
	esSKS	C 36 44	MPPV=6.7 MLH=6.2 MLV=6.3
	eS	C 37 38	e 26 12 e 30 06 i 38 16 i 40 00
	eSP	B 39 32	e 49 00 e 53(00)
	eSPP	C 40(40)	
	ePKKP	A 41 12	
	eSS	C 45 27	
	eSSS	C 49 40	
	eISa	C 56.0	
	LmH	B 17 16.7	
	LmV	B 17.1	
26.	+ePKIKP	A 17 24 50	<u>Solomon Islands</u> 7.10°S 155.80°E H = 17 05 55.0 h = 94 km MAG=5.7 D = 127.4° Az = 332.0° (USCGS) PV:1.2s 25.5nm
26.	iSg	A 17 45 00	Probably explosion.
27.	eP	A 07 28 58	<u>Crete</u> 34.36°N 26.58°E
	e	A 29 05.5	H = 07 24 29.9 h = 20 km MAG=4.7
	e	A 29 08.5	D = 19.6° Az = 330.7° (USCGS)

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Day	Phase	h m s	Remarks
cont.			
27.	e	A 07 29 13	LmH:14s 0.4/um LmV:15s 0.3/um
	LmV	C 38.4	MLH=3.8 MLV=3.8
	LmH	C 38.5	
27.	e(P)	A 10 36 58.5	(P)V:0.7s 9.5nm
27.	iPg	A 12 49 32.0	<u>Explosion/GDR</u>
	iSg	A 49 37.0	D = 0.4°
	LmH	A 49 41.5	LmH:1.1s 198nm LmV:1.1s 188nm
	LmV	A 49 41.5	
27.	e	A 15 48 40	Traces
	e	A 48 51	
27.	e	A 15 54 00	Traces
	e	A 54 47	
	e	A 56 15	
	e	A 56 34	
27.	eP	A 16 00 35.5	PV:1.2s 10.2nm
27.	+eP	A 17 12 18	<u>Nevada</u>
	e	A 13 28	H = 17 00 00
	ePP	A 15 22	D = ca. 81°
	LmH	C 49.7	PV:1.4s 67.5nm
	LmV	C 49.7	MPV=5.6
			Underground explosion.
28.	-eP	A 03 02 11.5	<u>Alma-Ata Region</u> 41.97°N 79.51°E
	e	A 02 30	H = 02 53 48.4 h = normal MAG=4.8
	e	A 02 35	D = 46.2° Az = 305.2° (USCGS)
	e	A 04 10	PV:1.4s 24.5nm
	eSS	C 12 28	LmH:15s 2.0/um LmV:13s 1.4/um
	LQ	C 13.8	MPV=5.1 MLH=5.2 MLV=5.2
	LmH	B 19.1	
	LmV	B 22.2	

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Day	Phase	h m s	Remarks
28.	eP A	03 12 22	<u>Fox Islands/Aleutian Is.</u> 52.25°N 171.02°W H = 03 00 30.5 h = 48 km MAG=5.1 D = 77.5° Az = 358.3° (USCGS) PV:0.9s 37.8nm MPV=5.5
28.	eP C	05 12.6	<u>New Britain</u> 6.59°S 153.40°E
	ePKIKP A	15 55	H = 04 56 56.3 h = 44 km MAG=5.9
	ePP A	17 48	D = 125.8° Az = 330.9° (USCGS)
	+iPP B	17 49	PV2:1.3s 22.2nm
	iPP C	17 51	LmH:24s 3.6/um LmV:23s 4.1/um
	ePPP C	20 30	MLH=6.0 MLV=6.0
	eSKS C	22 55	e 28 30 e 28 53 e 29 27
	eSKKS C	24 44	
	eSP C	27 40	
	eSPP C	29 12	
	eSKKP A	29 20	
	eSS C	34 48	
	eSSS C	39 30	
	LmH B	06 02	
	LmV B	12.2	
28.	e A	05 25 37	
28.	iPg A	12 00 40.5	Explosion
	iSg A	00 56.5	D = ca. 1.2°
28.	eP A	12 04 05	
	e A	05 40	
28.	+eiP A	15 55 59	<u>Gulf of Alaska</u> 59.48°N 147.11°W
	+iP C	56 00	H = 15 44 55.7 h = 28 km MAG=5.6
	ePP C	58 28	D = 68.9° Az = 14.3° (USCGS)
	iPP B	58 34	PV:1.8s 131nm
	iS B	16 05 04	LmH:17s 3.4/um LmV:18s 3.8/um
	iS C	05 05.5	MPV=5.8 MLH=5.7 MLV=5.7
	iScS BC	05 53	e 06 05 e 09 08 e 13 12
	e(SS) C	09 36	Complicated SS- and SSS-groups.
	e(SSS) C	12 40	

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Day	Phase	h m s	Remarks
cont.			
28.	ePKPPKP A	16 24 12	
	e A	24 17	
	LmV B	29.7	
	LmH B	29.8	
28.	eP A	22 26 53	LmH:10s 0.4/um LmV:10s 0.4/um
	LmH C	38.5	
	LmV C	38.5	
28.	eP A	23 59 40	LmV:12s 0.3/um
	LmH C	00 10.5	
	LmV C	11.1	
29.	+eP A	05 31 41	<u>Off Coast of Central America</u>
	eS C	42 18	12.34°N 91.21°W
	LmH B	06 13	H = 05 18 49.6 h = normal MAG=5.2
	LmV B	13	D = 88.5° Az = 38.4° (USCGS)
			PV:1.5s 47.0nm
			LmV:18s 0.3/um
			MPV=5.5 MLV=4.7
29.	eP A	05 43 34.5	
29.	ePKP A	07 39 22	<u>Tonga Islands</u> 19.79°S 173.99°W
			H = 07 19 34.8 h = normal MAG=4.6 (USCGS)
			D = 148.1°
29.	eiSg A	10 03 47	<u>Explosion/ČSSR</u> 49°15.7'N 14°55.4'E
			Yield: 12.5 t (PRUHONICE)
			D = 2.6°
29.	LmH B	11 14.1	
	LmV B	14.3	
29.	LmH C	11(29)	Traces. Probably Mexico (USCGS)
29.	eP A	12 07 14	

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Day	Phase	h m s	Remarks
29.	e	A 15 15 33	Probably to Central Mid-Atlantic Ridge 4.6°N 32.5°W H = 15 05 18.9 h = normal MAG=4.9 (USCGS) D = 59.0° The first onset of P must be about 14 s earlier than the onset e 15 33.
	e	A 15 43	
29.	LmV	C 24 01.5	<u>Auckland Island Region</u> (USCGS)
	LmH	C (03)	
30.	eP	A 02 39 35	<u>Iceland</u> 63.60°N 22.82°W H = 02 34 38.7 h = normal MAG=4.3 D = 22.4° Az = 109.1° (USCGS) LmH:12s 1.0 μm LmV:13s 0.9 μm MLH=4.5 MLV=4.5
	eS	C 43 44	
	LmH	B 49.4	
	LmV	B 51.2	
30.	eP	A 04 24 41	<u>Iceland</u> 63.73°N 22.90°W H = 04 19 43.2 h = normal MAG=4.4 D = 22.5° Az = 109.3° (USCGS) LmH:13.5s 1.1 μm LmV:14s 1.0 μm MLH=4.5 MLV=4.6
	eS	C 28 48	
	LmH	B 34.5	
	LmV	B 36.2	
30.	eP	A 04 35(02)	<u>Iceland</u> 63.84°N 22.65°W H = 04 30 07.5 h = normal MAG=4.4 (USCGS) D = 22.4° LmH:11s 0.6 μm LmV:11s 0.6 μm MLH=4.2 MLV=4.4
	e	A 35 05	
	e	A 35 12	
	LmH	B 46.8	
	LmV	B 46.8	
30.	+eIP	A 08 09 47.2	<u>Ryukyu Islands</u> 28.91°N 129.92°E H = 07 57 19.9 h = 32 km MAG=5.5 D = 83.9° Az = 325.7° (USCGS) PV:1.9s 126.8nm (sP)V:2.0s 148nm LmH:14s 6.5 μm LmV:18s 6.7 μm MPV=5.7 MLH=6.2 MLV=6.1 e 09 48 e 30 12 If we interpret (sP) as pP then the focal depth will be h = 47 km.
	e(pP)	A 09 55.5	
	e(sP)	A 10 00	
	eS	C 20 12	
	ePS	C 21 08	
	eSS	C 25 40	
	eSSS	C 29(40)	
	LmV	B 51.1	
	LmH	B 52.1	

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Day	Phase	h m s	Remarks
30.	e	A 12 07 07	
	e	A 07 10	
30.	e	A 12 35 03	<u>Explosion/GDR</u>
	eiL	A 12 35 11	
30.	eiL	A 12 35 40	<u>Explosion/GDR</u>
30.	iL	A 12 35 59.3	<u>Explosion/GDR</u>

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Day	Phase	h m s	Remarks
1.	e(P)	A 07 06 22.5	
1.	e(P)	A 08 53 00	
	i	A 53 22.0	
1.	e(Pg)	A 11 09 31.5	Probably explosion
	iSg	A 09 45.5	(D = 1.1°)
1.	ePKP	A 12 15 28	<u>Tonga Islands</u> 15.14°S 174.08°W H = 11 56 02.8 h = 90 km MAG=4.6 (USCGS) D = 144.3°
1.	i(P)	A 17 29 45.2	
	e	A 30 45	
	ei	A 30 58.5	
1.	ePn	A 22 47 16	<u>Northern Italy</u> 44.30°N 11.12°E
	eSn	A 48 28	H = 22 45 43.6 h = normal MAG=4.2
	eSb	A 48 47	D = 6.4° Az = 2.9° (USCGS)
	eISg	A 49 12	
	eiLg2	A 49 19	
	e(Rg)	A 49 30.5	
2.	ePKIKP	A 00 31 30.5	<u>Fiji Islands</u> 20.96°S 178.84°W
	-iPKHKP	A 31 35.5	H = 00 12 52.8 h = 604 km MAG=5.2
	+iPKP2	A 31 42.5	D = 149.2° Az = 346.9° (USCGS);
	epPKP	A 33 57	h = ca. 620 km
	esPKP	B 34 52	PKIKPV:1.1s 26.4nm PKHKPV:1.3s 150nm
	ePP	A 35 08	PKP2V:1.1s 67.3nm pPKHKPV:1.6s 37.9nm
	eiPP	B 35 12	i 31 48.0 e 32 06 e 32 13 e 41.1
	esPP	C 38 15	e 14.6
	eSKKS	C 41.1	
	ePSKS	C 45 13	
	ePPS	C 48 30	
	eSS	C 53 30	
	esSS	C 57 20	
	eSSS	C 59.0	
2.	e(Sg)	A 11 17 50	Probably explosion

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Day	Phase	h m s	Remarks
2.	e(Pg)	A 12 52 10	Explosion
	e(Sg)	A 52 18	(D = 0.6°)
	eL	A 52 27	
2.	ePP	A 15 15 06.5	<u>New Britain Region</u> 6.7°S 153.4°E
	e(pPP)	A 15 23.5	H = 14 54 08.4 h = 27 km MAG=5.3 (USCGS)
	LmH	C 16 04	D = 126.0° (h = 60 km) LmH:30s 0.2 μ m MLH=4.6
2.	eP	A 15 52 38	<u>East China Sea</u> 27.97°N 127.92°E H = 15 40 20.6 h = 109 km MAG=4.9 (USCGS) D = 83.7°
2.	ePn	A 20 15 16.5	<u>Southern Italy</u> 41.63°N 14.00°E
	ePb	A 15 51	H = 20 13 02.2 h = normal MAG=4.5
	ePg	A 16 04	D = 9.2° Az = 350.5° (USCGS)
	e(Sn)	A 17 06.5	PnV:1.0s 9.5nm
	eSx	A 17 10	ei 15 55 e 16 15 e 17 15 e 17 29.5
	eSb	A 17 45.5	e 18 11.5 e 18 25
	eLg2	A 18 09	
3.	e(P)	A 03 41 45	(P)V:1.5s 20.2nm
3.	LmV	C 03 50.6	LmH:16s 0.5 μ m LmV:16s 0.2 μ m
	LmH	C 51	
3.	e(Sg)	A 10 19 07.8	Explosion?
	LmH	A 19 33	e 19 08
3.	i(Pg)	A 12 58 06.0	Explosion
	i(Sg)	A 58 14.4	(D = 0.6°)
	LmH	A 58 28	
3.	e	A 13 17 20	
3.	iPg	A 14 22 15.8	Explosion
	eiSg	A 22 31	D = ca. 1.1°

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Day	Phase	h m s	Remarks
3.	ePKHKP ePKP2 ei	A 15 05 34.5 A 05 42 A 06 33	<u>Fiji Islands</u> 21.90°S 179.53°W H = 14 46 46.7 h = 553 km MAG=4.7 D = 150.0° Az = 345.7° (USCGS) PKHKPV:1.0s 9.5 nm
3.	-eP eX eY eZ ePP ePP i(S) i(S) eiPS eSS eSSS eLQ eiLR LmH LmV	A 18 28 44.5 A 29 08 A 29 16 A 29 29 A 32(00) C 32 06 B 39 19 C 39 21 C 40 23 C 45.0 C 48.6 C 53 C 56 50 B 19 06.3 C 06.3	<u>Costa Rica</u> 10.91°N 85.91°W H = 18 16 03.2 h = 21 km MAG=5.8 D = 86.4° Az = 39.2° (USCGS) PV(A):2.0s 106nm PV(C):15s 2.1 μm PH(C):15s 1.0 μm XV:2.2s 132nm YV:2.0s 139nm ZV:1.7s 70.2nm PPV(C):16s 0.9 μm (S)H(C):22s 4.9 μm TSH:29s 4.5 μm SSH:36s 6.3 μm M-V(A)=5.7 LPV(C)=6.1 MPH(C)=6.3 MPPV=5.9 (MSH=6.4) e 29 58 e 30 04 i 40 36 i 41 16 ei 41 50 X, Y and Z are three clear unidentified phases after P in our short-period registration. If we interpret X as pP and Y as sP, then the focal depth will be about 85 km. SS is totally polarized in the SV-plane. Therefore we were not certain to interpret the onset at 18 39 21, which was also SV-polarized, as SKS, as is usually done. If we interpret this onset as S, then the J.-B. travel-time residual will be only +1 sec., but +9 sec. if we interpret this onset as SKS.
3.	e(Pg) ei(Sg) LmV	A 20 03 45.5 A 04 19 A 04 47	Probably near earthquake. VIENNA gives: i(Pg) 20 03 14.5 i(Sg) 03 30 e 03 46 e 04 14.5 e 04 20
3.	e e	C 21 30 20 C 30 29	
4.	e	A 04 58 29	

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Day	Phase	h m s	Remarks
4.	eP LmH	A 06 14 57.5 C 58.3	<u>Off Coast of Costa Rica</u> 10.72°N 85.97°W H = 06 02 16.4 h = 33 km MAG=5.3 (USCGS) D = 86.6° LmH:16s 0.7 μm MLH=5.2
4.	iPg iSg i	A 09 13 44.0 A 13 45.8 A 13 46.0	Explosion/GDR SgV:0.5s 376nm SgH:0.6s 374nm
4.	ePg eSb eSg	A 10 30 56 A 31 41.5 A 31 56	<u>Upper Silesia</u> 50.4°N 18.9°E H = 10 29 29 (BCIS) D = 4.6° e 31 58.5 e 32 09
4.	e eSg LmH LmV	A 14 17 50 A 17 58.5 A 18 14 A 18 14	Probably explosion e 18 10
4.	eP ePKIKP ePKIKP ePP iPP e(PKS) e(PPP) eSKKS iSP iPS eiSPP eSKKP iSS iSSS iLQ LmV LmH	C 17 39.9 A 40 18 C 40 20 A 42 09.5 C 42 12 C 43 35 A 44 47 C 49.0 C 52 07 C 52 12 C 53 37 A 53 45 C 59 13 C 18 03.9 C 14 50 C 35.5 B 19 09.4	<u>New Ireland Region</u> 5.72°S 153.89°E H = 17 21 20.7 h = 52 km MAG=5.5 D = 125.3° Az = 331.5° (USCGS) PV:30s 1.3 μm PKIKPV(C):24s 1.9 μm PPV(C):28s 12.9 μm PPH(C):28s 8.3 μm (PKS)H:26s 8.3 μm LQH:75s 50.7 μm LmH:19s 14.4 μm LmV:23s 25.6 μm MPPV=6.9 MPPH=6.9 MLH=6.6 MLV=7.0 e 40 25 e 40 57.5 e 41 15 e 41 22 e 53 28 i 57 19 e 59 16 The begin of surface waves has a pronounced long-period character. P is the diffracted P around the core. The onset (PKS) is very clear in the horizontal components of the long-period seismographes of type C but 20 s earlier than PKS expected from the DF branch from the I.-B.-tables.

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Day	Phase	h m s	Remarks
4.	eP	A 21 52 33.5	<u>Iceland</u> 63.70°N 18.96°W
	LmH	C 22 01.5	H = 21 47 53.0 h = normal MAG=4.5
	LmV	C 01.5	D = 20.8° Az = 114.5° (USCGS) PV:1.8s 40.8nm LmH:16s 1.2/um MPV=4.5 MLH=4.4
5.	e	A 11 04 04	
5.	eP1	A 12 04 16.5	<u>Ionian Sea</u> 37.75°N 20.68°E
	iP2	A 04 25.5	H = 12 00 51.2 h = 15 km MAG=5.0
	eS	A 06 55	D = 14.4° Az = 336.3° (USCGS)
	eLi	B 07 50	PV2:1.5s 87.2nm PH2:1.5s 63.2nm
	eLg1	B 08 26	LmH:15s 3.6/um LmV:17s 2.6/um
	LmH	B 09.7	MLH=4.6
	LmV	B 11.1	Multiple P, the second onset much stronger than the first one.
5.	e	A 12 31 16	Explosion?
	eSg	A 31 53	
	e	A 31 55	
5.	e(Sg)	A 14 46 45	Explosion?
	e	A 46 47	
5.	+eP	A 16 06 59	<u>Kurile Islands</u> 45.43°N 150.72°E
	e	A 07 02.5	H = 15 55 02.8 h = normal MAG=5.3
	ePcP	A 07 10	D = 78.0° Az = 334.8° (USCGS)
	e	A 07 17.5	PV:1.3s 46.5nm
	LmH	C 44.3	LmH:22s 0.6/um LmV:18s 0.7/um
	LmV	B 44.5	MPV=5.5 MLH=4.9 MLV=5.0
5.	ePKHKP	A 18 47 05.5	<u>South of Fiji Islands</u> 21.95°S 176.96°W
	epPKHKP	A 48 08	H = 18 27 38.3 h = 214 km MAG=4.9 D = 150.6° Az = 348.9° (USCGS); h = 229 km PKHKPV:1.3s 22.1nm
6.	e(P)	A 04 11 40	<u>Mid-Indian Rise</u> 10.27°S 66.44°E
	+iP	A 11 44	H = 03 59 51.0 h = normal MAG=5.1
	ei(pP)	A 12 02	D = 77.0° Az = 327.7° (USCGS);

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Day	Phase	h m s	Remarks
cont			
6.	e(sP)	A 04 12 13	(h = ca. 75 km)
	eS	C 21.3	PV:1.2s 25.5nm (pP)V:1.4s 18.4nm
	eSS	C 26.1	(sP)V:1.3s 22.2nm SH:25s 1.0/um
	eLQ	C 30.3	LmH:55s 3.1/um
	LmH	C 34	MPV=5.2 MSH=5.5 MLH=5.2 e(P) is a small-amplitude precursor.
6.	eP	A 07 06 23.5	<u>Central Russia</u> 57.69°N 65.27°E
	e	A 06 51	H = 07 00 02.3 h = normal MAG=4.7
	iPn	A 07 18.5	D = 31.4° Az = 280.6° (USCGS)
	ePP	A 07 25.5	PV:1.3s 8.3nm
	i	A 08 02.2	MPV=4.5 Clear Pn in our short-period VSJ-II record.
6.	LmH	C 08 47	Traces; <u>West Caroline Islands</u> (USCGS)
6.	iPg	A 12 33 20.5	Explosion/ <u>GDR</u>
	iSg	A 33 27.5	D = 0.5°
	iL	A 33 28.5	
6.	eiL	A 12 33 42	Explosion/ <u>GDR</u>
6.	iPg	A 13 58 03.0	Explosion/ <u>GDR</u>
	iSg	A 58 17.0	D = ca. 1.1°
6.	e	A 14 06 41.5	
	e	A 06 47	
	eSg	A 07 05	
6.	iSn	A 15 05 20.7	Explosion/ <u>GFR</u> 47.63°N 11.15°E
	iSg	A 05 36.2	H = 15 05 00 Yield: 7 t D = 3.0°
6.	e	A 17 50 37	
6.	LmH	C 17 59	LmH:18s 0.14/um

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Day	Phase	h m s	Remarks
7.	-ePP	A 01 32 38	<u>Near Coast of Central Chile</u>
	e(pPP)	A 33 05.5	29.56°S 71.05°W
	ePS	C 42 10	H = 01 14 04.1 h = 42 km MAG=5.3
	LQ	C 02 01	D = 107.9° Az = 41.6° (USCGS);
	LmH	B 18	(h = 66 km)
	LmV	C 19.4	PPV:1.6s 56.7nm LmH:20s 0.4/um LmV:19s 0.4/um MPPV=6.0 MLH=5.0 MLV=5.0
7.	ePKP	A 02 58 22	<u>Samoa Islands</u> 16.73°S 172.90°W
	epPKP	A 58 32	H = 02 38 44.1 h = normal MAG=4.4
	e	A 58 50	D = 146.0° Az = 354.9° (USCGS); h = 36 km
7.	+iP	A 08 39 46.9	<u>Kurile Islands</u> 49.20°N 156.27°E
	i	A 39 50	H = 08 28 01.2 h = normal MAG=5.3
	e(pP)	A 39 57.5	D = 76.0° Az = 337.7° (USCGS);
	i(PcP)	A 39 59.8	(h = 48 km)
	eS	C 49.6	PV:1.2s 133nm
	ePS	C 50.1	LmH:16s 1.3/um LmV:17s 1.4/um
	eSS	C 54.6	MPV=5.9 MLH=5.3 MLV=5.4
	LmV	B 09 17.5	If we interpret (PcP) as pP then the
	LmH	B 17.6	focal depth would be h = 50 km.
	7.	eiP	A 09 18 37.5
e		A 18 41	H = 09 06 52.3 h = normal MAG=4.9
e(pP)		A 18 47	D = 76.1° Az = 337.7° (USCGS);
e(PcP)		A 18 49.5	(h = 36 km)
e		A 18 52.5	PV:1.3s 72.2nm
LmV		B 58.4	LmH:16s 0.9/um LmV:16s 0.8/um
LmH		B 58.5	MPV=5.4 MLH=5.2 MLV=5.2 If we interpret (PcP) as pP then the focal depth would be h = 45 km.
7.	ePKP	A 10 51 43.5	<u>Fiji Islands</u> 17.28°S 178.94°W
	iPKP	A 51 45.5	H = 10 33 08.2 h = 563 km MAG=4.9
	e	A 52 04	D = 145.7° Az = 348.1° (USCGS)
	ei	A 52 57	PKPV:1.1s 48.1nm

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Moxa

Day	Phase	h m s	Remarks
7.	eP	A 14 48 34.5	<u>Off East Coast of Kamchatka</u>
	e	A 48 37	52.17°N 160.36°E
	e	A 49 15	H = 14 36 59.5 h = normal MAG=4.4
	LmH	C 15 25.6	D = 74.2° Az = 339.9° (USCGS)
	LmV	C 27.7	PV:1.2s 12.8nm LmH:16s 0.6/um LmV:15s 0.4/um MPV=4.9 MLH=4.9 MLV=4.9
	7.	LmH	C 20 59.3
8.	+iP	A 05 41 42.4	<u>Kurile Islands</u> 49.28°N 156.32°E
8.	eSn	A 09 58 44	<u>Hunsrück/GFR</u> 49.8°N 6.9°E
	e(Sg)	A 58 58.5	H = 09 57 18 (BCIS)
	eL	A 59 05	D = 3.2°
	e	A 59 07	
	8.	eSg	A 14 00 11
8.	e	A 00 22	H = 13 57 29 (BCIS) D = 5.0°
	ePKIKP	A 17 18 36	<u>East New Guinea Region</u> 9.54°S 148.82°E
	e	A 18 38	H = 16 59 34.4 h = 17 km MAG=5.5
	ePP	A 20 30.5	D = 126.0° Az = 327.7° (USCGS)
	eSS	C 37.7	PV:1.3s 11.1nm PPV:2.2s 87.7nm
	LmH	C 18 08.5	LmH:24s 1.3/um MPPV=5.8 MLH=5.4
8.	e	A 18 27(50)	<u>Solomon Islands</u> 5.60°S 153.96°E
	ePP	A 29 03	H = 18 08 18.1 h = 70 km MAG=5.1 (USCGS)
	ePS	C 38.9	D = 125.2°
	ePPS	C 40.5	PPV:2.3s 96.5nm
	eSS	C 46.2	LmH:20s 1.0/um LmV:20s 1.2/um
	eSSS	C 51.0	MPV=5.9 MLH=5.5 MLV=5.6
	LmH	B 19 26.7	
	LmV	B 26.9	

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Day	Phase	h m s	Remarks
8.	LmH C	19 55.5	Traces
8.	iP A	21 20 58.0	<u>Kurile Islands</u> 49.22°N 153.30°E
	epP A	21 09	H = 21 09 13.1 h = normal MAG=4.7
	LmH C	22 00.3	D = 76.0° Az = 337.7° (USCGS); h = 40 km PV:1.1s 16.8nm MPV=5.1
8.	eP A	21 31 32.5	<u>Kurile Islands</u> 49.25°N 156.28°E
	LmH C	11.2	H = 21 19 46.3 h = 23 km MAG=4.5 D = 76.0° Az = 337.7° (USCGS) PV:1.2s 12.8nm MPV=4.9
9.	e A	02 22 34	
9.	eP A	08 36 35.5	<u>North Atlantic Ridge</u> 19.37°N 46.15°W H = 08 27 05.4 h = normal MAG=4.9 D = 54.9° Az = 41.2° (USCGS) PV:2.0s 26.5nm MPV=5.0
9.	ePn A	10 03 45	<u>Austria</u> 47.89°N 11.12°E
	iPb A	03 52.5	H = 10 03 02.8 h = 8 km
	iPg A	03 56.0	D = 2.8° Az = 6.5° (USCGS)
	eiSn A	04 19.5	Bavaria/GFR 47.8°N 11.1°E (STU)
	eiSg A	04 33	PbV:0.6s 11.9nm e 03 54.5 e 04 02.5 e 04 16.5
9.	eP A	10 48(39)	<u>Greece</u> 38.3°N 21.2°E
	e A	50 18	H = 10 45 16 ML=3.7 (ATH)
	LmH C	54.7	D = 14.1°
	LmV C	55.0	LmH:18s 0.3/um LmV:12s 0.4/um MLH=3.5
9.	ePKIKP A	13 46 56	<u>Solomon Islands</u> 5.75°S 153.96°E
	e A	47 29	H = 13 27 56.7 h = 41 km MAG=4.9 (USCGS)
	LmH B	14 44.3	D = 125.3°
	LmV B	44.5	LmH:21s 1.9/um LmV:21s 1.7/um MLH=5.6 MLV=5.6

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Day	Phase	h m s	Remarks
9.	-eiP A	14 21 36.5	<u>Kamchatka</u> 54.06°N 155.06°E
	ePcP A	21 55	H = 14 10 57.4 h = 393 km MAG=5.2
	e A	22 03.5	D = 71.3° Az = 336.4° (USCGS); h = 400 km
	epP A	23 05	PV:1.1s 45.6nm
	e A	23 47	MPV=5.5
	e A	24 22	
9.	e A	14 49 51	
	e A	49 53	
9.	-eiPKP A	17 40 21	<u>Fiji Islands</u> 21.08°S 179.35°W
	eipPKP A	42 52	H = 17 21 49.5 h = 654 km MAG=6.3
	esPKP A	43 56	D = 149.3° Az = 346.3° (USCGS);
	eisPP A	47 12	h = 656 km
	iSKKS B	49 55	
	iSKKKS B	50 28	
	iPSKS B	54 22	
	eiPa C	57 15	
	eiSSS C	18 06 20	
	eiSSS C	08 35	
	eiSSS C	12 14	
	e(Sa) C	22 10	
9.	eP A	18 16 58.5	PV:2.0s 81.5nm
9.	ePKIKP A	18 51 44	<u>Fiji Islands</u> 21.27°S 179.27°W
	iPKHKP A	51 49.5	H = 18 33 08.2 h = 619 km MAG=5.1
	eiPKP2 A	51 56	D = 149.5° Az = 346.3° (USCGS);
	epPKHKP A	54 12.5	h = 630 km
	epPKP2 A	54 20	PKIKPV:1.0s 19.0nm PKHKPV:1.4s 123nm
	e A	54 31	PKP2V:1.4s 67.5nm AN USSR gives: Tonga Islands Region 21.0°S 175.9°W H = 18 32 00 h = normal D = 149.8°
10.	LmH B	01 48	<u>Eastern China</u> 36.88°N 115.07°E H = 01 07 49.7 h = normal MAG=4.6 (USCGS) D = 69.9° LmH:15s 0.4/um MLH=4.8

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Day	Phase	h m s	Remarks	
10.	+ePKP e	A A	06 46 14.5 46 45.5	<u>New Hebrides Islands</u> 18.11°S 171.82°E H = 06 26 46.3 h = 63 km MAG=5.2 D = 143.9° Az = 338.5° (USCGS) PV:1.6s 53.2nm
10.	eP LmH	A C	06 59 17 07 39	<u>Near East Coast of Honshu</u> 36.87°N 140.99°E H = 06 46 58.5 h = 25 km MAG=5.0 (USCGS) D = 82.0° PV:1.5s 13.4nm LmH:33s 0.3/um MPV=4.9 MLH=4.5
11.	eP e e eS e LmV LmH	A A A C C C C	07 53 00 53 09.5 53 18 56 21 56 28 08 01.5 01.6	<u>Dodecanese Islands</u> 36.05°N 27.20°E H = 07 48 44.8 h = 35 km MAG=4.7 D = 18.4° Az = 327.2° (USCGS) PV:1.4s 18.4nm LmH:10s 0.4/um LmV:11s 0.3/um MLH=4.0 MLV=4.0
11.	-eP e ePP e LmH LmV	A A A A C C	16 05 06.5 05(40) 08 35 08 39 44.5 50.5	<u>South of Honshu/Japan</u> 30.38°N 142.59°E H = 15 52 16.8 h = 32 km MAG=5.5 D = 88.4° Az = 331.3° (USCGS) PV:1.6s 34.4nm LmH:17s 0.9/um LmV:16s 0.7/um MPV=5.3 MLH=5.3 MLV=5.2
11.	eP e LmH	A A C	18 53 15 53 15.5 19 27	<u>Kurile Islands</u> 44.37°N 145.98°E H = 18 41 21.4 h = normal MAG=4.6 D = 77.4° Az = 332.2° (USCGS) LmH:17s 0.3/um MLH=4.6
11.	eP	A	20 40 24	<u>Peru - Brazil Border Region</u> 10.29°S 71.16°W H = 20 28 10.2 h = 585 km MAG=5.0 D = 93.3° Az = 39.2° (USCGS) PV:2.0s 39.8nm MPV=5.4

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Day	Phase	h m s	Remarks	
12.	ePKIKP iPKHKP iPKP2 epPKP esPKP e(PP) epPP eSKKS ePKKS ePSKS ePPS eSS esSS esSSS e	A A A C C A C C C C C C C C C C C C C	06 53 40.5 53 46.1 53 53.0 56 10 57 10 57 22.5 07 00 32 03 15 06 10 07 40 10 55 15.7 19 30 25 20 25.8	<u>Fiji Islands</u> 21.13°S 179.19°W H = 06 35 06.7 h = 636 km MAG=5.6 D = 149.3° Az = 346.5° (USCGS); (h = ca. 680 km) PKIKPV:2.2s 158nm PKHKPV:1.8s 866nm PKP2V:1.4s 338nm i 53 50 e 55 20 e 55 22 e(pPKHKP) 56 15.5 e(pPKP2) 56 24.5 e(sPKIKP) 57 21 e(sPKHKP) 57 29.5 e(sPKP2) 57 36 e 57 51 e 57 58 PKP and the deep-phases are multiple in our short-period records.
12.	iPg eiSg	A A	12 01 03.2 01 12	Explosion D = ca. 0.6°
12.	ePg e(Sg)	A A	12 54 49 55 05.5	Explosion 51.30°N 13.18°E D = 1.1° Yield: 1.05 t
12.	iP -iP -iPcP epP eisP eS esS eLQ LmH	B A A A A C C C C	13 04 23.5 04 24.5 04 42.5 06 05 06 52.5 13 09 16.1 23 08 30.7	<u>Northwest of Kurile Islands</u> 52.23°N 152.52°E H = 12 53 46.9 h = 476 km MAG=5.5 D = 72.3° Az = 335.1° (USCGS); h = 480 km PV(A):1.3s 516nm PcPV:1.1s 86.5nm LmH:24s 0.5/um MPV=6.0 e 06 20.5 e 06 28 e 07 02 i 13 10 ei 22 30
12.	eP +ePKIKP ePP ePS e(SS) e LmH LmV	A A C C C C C C	18 46 18 50 10 51 04 19 00 40 06 35 07.2 35 37.5	<u>Banda Sea</u> 7.12°S 129.77°E H = 18 31 37.1 h = 45 km MAG=6.2 D = 113.1° Az = 322.4° (USCGS) PV:1.6s 22.7nm PKIKPV:1.5s 74.0nm PPV:12s 0.9/um LmH:30s 2.7/um LmV:30s 1.2/um MPV=6.6 MPPV=6.3 MLH=5.7 MLV=5.3 e 01 05 e 01 37

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Day	Phase	h m s	Remarks
13.	eP	A 03 32 56	<u>Southern Sinkiang Prov./China</u>
	e	A 34 54	39.67°N 74.45°E
	LmH	C 51.5	H = 03 24 47.0 h = normal MAG=5.2
	LmV	C 54.5	D = 44.4° Az = 305.9° (USCGS) PV:1.4s 9.2nm LmH:20s 0.3/um LmV:18s 0.3/um MPV=4.5 MLH=4.3 MLV=4.4
13.	e	A 11 33 20.5	<u>Explosion/CSSR</u> 49.57°N 14.58°E
	e	A 33 22	H = 11 32 00 (PRU) D = 2.2°
13.	eP	A 20 01 02	<u>Honshu/Japan</u> 36.51°N 138.22°E
	LmH	B 38.2	H = 19 48 48.1 h = 30 km MAG=4.6
	LmV	B 43	D = 81.3° Az = 328.9° (USCGS) LmH:14s 1.2/um LmV:12s 0.5/um MLH=5.3 MLV=5.1
14.	eP	A 03 41 48	<u>Leeward Islands</u> 17.28°N 60.81°W
	eS	C 50 30	H = 03 31 04.5 h = 29 km MAG=5.3
	eSS	C 54.7	D = 65.7° Az = 41.8° (USCGS)
	LmH	B 04 00.7	LmH:20s 1.0/um LmV:18s 0.8/um
	LmV	B 09.7	MLH=5.0 MLV=5.0 e 41 52.5 e 42 00 e 42 16 e 43 44
14.	LmH	C 17 33	Traces; <u>New Hebrides Islands</u> (USCGS)
	LmV	C 33	D = 140.2°
14.	eP	A 23 39 26.5	<u>Kenya</u> 3.25°S 30.20°E
	LmH	C 24 05.5	H = 23 29 30.0 h = normal MAG=5.2 (USCGS)
	LmV	C 11.8	D = 58.4°
15.	eP	A 03 41 02.5	<u>Off East Coast of Kamchatka</u>
			52.25°N 160.76°E H = 03 29 27.9 h = 35 km MAG=4.4 (USCGS) D = 74.2°
15.	eP1	A 08 13 11	<u>Near Coast of Nicaragua</u> 11.86°N 86.02°W
	+iP	B 13 12	H = 08 00 50.3 h = 162 km MAG=6.2
	iP2	A 13 13.0	D = 85.7° Az = 39.3° (USCGS); h = 164 km

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Day	Phase	h m s	Remarks
cont			
15.	eP	A 08 13 51	PV(B):12s 10.6/um PPV:4s 10.7/um
	e(sP)	B 14 54	PPH:3.5s 6.1/um SKSH:16s 21.6/um
	-iPP	B 16 40	SPH:15s 36.5/um (sSP)H:18s 48.0/um
	iP	B 17 16	PKKP:1.8s 86.7nm pPKPV:1.5s 26.8nm
	iSP	B 17 35	LmH:17.5s 21.5/um LmV:18s 22.7/um
	iSKS	B 23 22	MPV=6.9 MPPV=7.7 MPPH=7.8
	e(S)	B 23(32)	e 14 54 e 16 09.5 e 16 13.5 e 16 28
	eISP	B 24 22	e 16 41 e 16 48 e 16 53 e 17 08
	e(sSP)	B 25 25	e 23 04 e 23 12 e 23 28 e 31 01
	eISS	C 29 09	e 39 13
	ePKKP	A 31 15	Multiple P in our short-period records,
	epPKKP	A 31 56	the first onset 2 sec before the stronger
	ePKPPKP	A 39 27	second onset.
	eSKPPKP	A 42 23	
LmH	B 48.9		
LmV	B 49.5		
15.	eP	A 17 50 37.5	<u>Fox Islands/Aleutian</u> 52.09°N 169.53°W
			H = 17 38 43.1 h = 32 km MAG=4.5 D = 77.6° Az = 359.3° (USCGS) PV:1.3s 11.1nm MPV=4.8
15.	iP	A 21 54 30.5	<u>Northern China</u> 36.83°N 105.02°E
			H = 21 43 55.0 h = normal MAG=5.1 D = 64.5° Az = 315.3° (USCGS) PV:1.3s 16.7nm MPV=5.1
15.	ePKP	A 23 22 55	<u>Tonga Islands</u> 17.63°S 173.24°W
	e	A 23 22	H = 23 03 15.0 h = 40 km MAG=4.6 D = 146.8° Az = 354.4° (USCGS) PKPV:1.8s 56.0nm
15.	eP	A 23 55 09	<u>Molucca Sea</u> 1.78°S 126.28°E
	LmH	C 24 36	H = 23 36 49.0 h = 51 km MAG=5.3 D = 106.8° Az = 322.8° (USCGS)

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Day	Phase	h m s	Remarks
16.	e(P)	A 13 39 21	<u>Vancouver Island</u> 49.27°N 129.14°W
	i	A 39 24	H = 13 27 35.6 h = normal MAG=5.2
	e	A 39 28.5	D = 74.9° Az = 24.7° (USCGS)
	eS	C 48.9	LmH:15s 2.2/um LmV:18s 2.2/um
	eSS	C 53.6	MLH=5.6 MLV=5.5
	eSSS	C 57.5	The first onset of P must be about 6 sec. earlier.
	LmV	B 14 13.3	
	LmH	B 14.7	
16.	e(sP)	A 17 12 36	<u>Halmahera</u> 1.73°N 127.46°E
	e	A 16 17	H = 16 58 02.0 h = 120 km MAG=5.6 (USCGS)
	ePP	A 16 19.5	D = 104.8°
	LmH	C 55	PPV:1.4s 24.5nm MPPV=5.6
16.	eP	A 20 29 24	<u>Mascarene Islands</u> 17.28°S 66.56°E
	e	A 29 29	H = 20 16 56.1 h = 18 km MAG=5.2
	eS	C 39.6	D = 83.0° Az = 328.3° (USCGS)
	eSS	C 45.2	PV:1.5s 20.1nm
	eIQ	C 50.7	MPV=5.0
16.	eP	A 21 41 06	<u>Kurile Islands</u> 49.07°N 156.27°E
	LmH	C 22 21.7	H = 21 29 20.5 h = 39 km MAG=4.2 D = 76.2° Az = 337.7° (USCGS) PV:0.9s 14.1nm LmH:20s 0.5/um MPV=5.1 MLH=4.9
16.	ePKP	A 22 35 25	<u>Fiji Islands</u> 17.96°S 178.38°W H = 22 16 48.8 h = 593 km MAG=4.2 D = 146.4° Az = 348.5° (USCGS) PKPV:1.8s 30.6nm
16.	eP	A 23 43 02	<u>Kurile Islands</u> 43.95°N 150.11°E
	epP	A 43 14.5	H = 23 31 00.1 h = normal MAG=4.3
	LmH	C 24 16.4	D = 79.1° Az = 334.6° (USCGS) PV:1.9s 47.1nm pPV:1.4s 18.4nm LmH:20s 0.8/um MPV=5.3 MLH=5.0

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Day	Phase	h m s	Remarks
17.	+iP	A 05 11 46.0	<u>Eastern Kazakh SSR</u> 49.82°N 78.10°E
	ePn	A 13 19	H = 05 03 58.0 h = 0 km MAG=5.7 D = 41.2° Az = 297.1° (USCGS) PV:0.8s 108nm PH:1.0s 65.0nm MPV=5.9 MPH=5.8 Underground explosion.
17.	-eiPKHKP	A 14 27 37.5	<u>Fiji Islands</u> 21.15°S 179.12°W
	eiPKP2	A 27 44	H = 14 08 58.4 h = 636 km MAG=4.8 D = 149.4° Az = 346.5° (USCGS) PKHKPV:1.2s 71.4nm PKP2V:1.0s 37.9nm
17. to 18.			Seismological station not operating from October 17 at 15 ^h 00 ^m to October 18 13 ^h 00 ^m .
18.	eP	A 14 42 18	<u>Nevada</u> ; Underground explosion H = 14 30 00 (UPP) D = 81.1° PV:1.5s 57.1nm MPV=5.4
18.	e(Sn)	A 18 59 03	<u>Austria</u> 47.9°N 16.3°E
	e	A 59 21.5	H = 18 57 12 (BCIS)
	eiSg	A 59 26	D = 4.1°
18.	ePKIKP	A 22 26 21	<u>South of Kermadec Islands</u> 33.88°S 179.57°W
	ePKP2	A 27 06	H = 22 06 23.5 h = 26 km MAG=5.4
	e(sPKP2)	A 27 18	D = 161.4° Az = 337.3° (USCGS)
	e	A 27 29	PKIKPV:1.4s 18.4nm PKP2V:0.9s 14.1nm
	LmV	C 23 39.2	(sPKP2)V:1.3s 27.8nm
	LmH	C 40.1	LmH:22s 0.7/um LmV:22s 0.7/um MLH=5.3 MLV=5.5
18.	ePKIKP	A 23 54 31	<u>New Hebrides Islands</u> 13.87°S 166.52°E H = 23 35 11.0 h = 87 km MAG=5.0 D = 138.0° Az = 336.2° (USCGS) PV:1.4s 12.3nm

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Day	Phase	h m s	Remarks
19.	eSg	A 07 42 51	<u>Rheinland/GFR</u> 50.6°N 6.8°E
	iLg	A 42 58	H = 07 41 08 (BCIS) D = 3.1°
19.	e(Pg)	A 16 07 15.5	Explosion
	e(Sg)	A 07 30	(D = ca. 1.1°)
19.	LmH	C 16 38	Traces; <u>South Sandwich Islands</u> (USCGS)
20.	ePKP	A 00 39 25.5	<u>Loyalty Islands</u> 21.42°S 170.07°E
	e	A 39 29	H = 00 19 57.2 h = 130 km (USCGS) D = 146.3°
20.	ePKIKP	A 01 21 21	<u>South Sandwich Islands Region</u>
	ePP	A 22 16.5	58.6°S 25.0°W
	ePS	C 31.9	H = 01 02 43.8 h = 12 km MAG=5.6 (USCGS)
	eSS	C 38.2	D = 113.0°
	eSSS	C 42.5	PPV:1.4s 18.4nm
	LmV	B 02 04.5	LmH:18s 1.0/um LmV:20s 2.1/um
	LmH	B 04.8	MPPV=5.6 MLH=5.5 MLV=5.8
20.	eP	A 06 52 36	<u>Turkey</u> 37.93°N 37.74°E
	eS	B 56.8	H = 06 47 38.0 h = normal MAG=4.8
	e	B 58.0	D = 22.5° Az = 312.8° (USCGS)
	LmH	B 07 04.2	PV:2.0s 66.2nm
	LmV	B 04.2	LmH:14s 0.9/um LmV:14s 1.2/um MPV=4.7 MLH=4.4 MLV=4.6
20.	eP	A 07 50 10	<u>Taurus/Anatolie</u> 38.4°N 36.6°E
	e	A 50 20	H = 07 44 57 (BCIS) D = 22.7°
20.	iPg	A 08 29 34.5	Explosion
	eiSg	A 29 50.5	D = ca. 1.2°
	i	A 29 51	
20.	ePKIKP	A 16 15 14	<u>Fiji Islands Region</u> 20.6°S 178.1°W
	eIPKHKP	A 15 20	H = 15 56 33.4 h = 556 km MAG=5.0 (USCGS)
	ePKP2	A 15 26	D = 149.2°

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Moxa

Day	Phase	h m s	Remarks
cont			
20.	epPKP	A 16 17 31	PKIKPV:1.3s 19.4nm PKHKPV:1.3s 106nm PKP2V:1.3s 33.4nm
21.	eSg	A 00 50 15	Near earthquake/Probably Upper Silesia
	LmH	A 50 31	(D = ca. 4.9°) PRU gives: ePn 00 48 31 ePg 48 39 Sg 49 19 VIE gives: iPg 48 34 iSg 49 08 (D = 280 km)
21.	ePKP	A 02 53 43	<u>Near Coast of Northern Chile</u>
	eS	C 03 01 35	27.74°S 71.82°W
	ePS	C 03.5	H = 02 35 12.3 h = 13 km MAG=5.4
	eSS	C 09.0	D = 107.0° Az = 41.4° (USCGS)
	eSSS	C 12.9	PKPV:1.1s 7.2nm
	e(SSSS)	C 16.2	LmH:20s 0.9/um LmV:20s 1.1/um
	LmH	C 33.8	MLH=5.3 MLV=5.4
	LmV	C 33.8	
21.	+iP	A 05 06 03.5	<u>Novaya Zemlya</u> 73.37°N 54.81°E
	iPn(8.28)A	06 30.5	H = 04 59 58.1 h = 0 km MAG=5.9
	ei(PP)	A 06 47.5	D = 29.3° Az = 243.0° (USCGS)
	eSn(4.68)A	11 34	PV:1.0s 71nm
	eSS	B 12 20	LmH:15s 1.4/um
	eLi(3.71)B	14 36	MPV=5.4 MLH= 4.7
	eLg1(3.54)B	15 18	Underground explosion.
	eLg(3.44)B	15 44	Clear developed higher mode surface
	iLg2(3.32)B	16 16	waves and teleseismic Pn and Sn.
	LmH	B 17.9	
21.	i	A 12 34 24	Explosion/GDR
	iSg	A 34 28	
	iL	A 34 31	
21.	ePn	A 16 56 58	<u>Yugoslavia</u> 43.26°N 16.79°E
	eSn	A 58 29	H = 16 54 58.3 h = 34 km MAG=4.3
	eSb	A 59 02	D = 8.2° Az = 336.2° (USCGS)
	eSg	A 59 26.5	
21.	LmV	B 18 08	Traces; <u>West Caroline Islands</u> (USCGS)

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Moxa

Day	Phase	h m s	Remarks	
21.	ePKHKP e	A A	18 59 27 59 33	South of Fiji Islands 24.77°S 177.31°W H = 18 39 40.3 h = 107 km MAG=4.8 D = 153.3° Az = 347.3° (USCGS)
21.	e(P)	A	21 20 05	
22.	eP e eSKS eS esSKS e(sSP)	A A C C C C	01 05 25 05 45 15.7 16.6 17 40 19.7	Yujuy Province/Argentina 22.26°S 65.75°W H = 00 52 10.9 h = 259 km MAG=5.2 D = 99.3° Az = 39.0° (USCGS) FV:1.3s 22.2nm MPV=5.5
22.	LmV	B	03 53.5	Traces
22.	eP e	A A	05 41 46 41 54	Greece 36.8°N 21.4°E H = 05 38 05 ML=3.8 (ATH) D = 15.8°
22.	eP eS LmH LmV	A C B B	18 56 48 19 03 24 12.5 12.5	North Atlantic Ridge 30.98°N 41.44°W H = 18 48 44.5 h = normal MAG=4.7 D = 43.6° Az = 47.5° (USCGS) FV:1.7s 21.9nm LmH:18s 0.4/um LmV:19s 1.3/um MPV=4.8 MLH=4.4 MLV=4.9
22.	e(P)	A	21 24 12	
22.	LmH	C	21 32	Traces
22.	-iPKP	A	22 37 40.5	Tonga Islands 17.96°S 174.78°W H = 22 18 14.4 h = 145 km MAG=4.5 D = 147.0° Az = 352.5° (USCGS)
22.	eP -iP e epP LmH LmV	A A A A B B	23 16 43.5 16 44.5 16 50 16 54.5 59.5 59.5	Ryukyu Islands 27.38°N 128.25°E H = 23 04 14.2 h = 34 km MAG=5.2 D = 84.3° Az = 325.1° (USCGS); h = 40 km FV:1.3s 27.8nm LmH:15s 0.3/um LmV:17s 0.4/um MPV=5.2 MLH=4.8 MLV=4.9

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Moxa

Day	Phase	h m s	Remarks	
23.	eP e	A A	03 05 30 05 48	Kurile Islands 43.36°N 146.89°E H = 02 53 30.7 h = normal MAG=5.0 D = 78.6° Az = 332.8° (USCGS) FV:1.0s 14.2nm MPV=5.1
23.	-iP epP ePP esPP eSKS eSP esSKS esSP eSS esSS eSSSS LmV LmH	A A A C C B C C C C C C C	08 39 07.5 40 52.5 42 41 45.0 48 52 50 12 52.0 53.3 55 08 58.0 58.7 09 02 10 21.5 22.5	Bonin Islands 28.86°N 139.07°E H = 08 27 06.2 h = 463 km MAG=5.3 D = 88.2° Az = 329.6° (USCGS); h = 468 km FV:1.4s 79.7nm PPV:1.9s 94.0nm MPV=5.3 MPPV=5.6 e 44 31.5 e 55 12
23.	ePg iSg	A A	10 41 21 41 37	Explosion D = ca. 1.2°
23.	ePg eiSg	A A	12 16 35.5 16 53.5	Explosion D = ca. 1.4°
24.	ePKIKP ePKHKP ePKP2	A A A	03 32 53 33 07 33 32	Kermadec Islands 31.3°S 179.7°W H = 03 13 26.5 h = 250 km MAG=5.4 (USCGS) D = 158.9° PKIKPV:1.5s 20.1nm PKHKPV:1.2s 10.2nm PKP2V:1.4s 30.7nm
24.	eP e e e LmH LmV	A A A A C B	06 17 59 18 04.5 18 08 18 11 24 24.0	Greece 38.9°N 22.0°E H = 06 14 43.0 h = 29 km MAG=4.3 (USCGS) D = 13.9° LmV:12s 0.7/um

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Moxa

Day	Phase	h m s	Remarks
24.	e	A 07 35 40	
	e	A 35 48	
	e	A 36 40	
24.	+eP	A 11 04 20	<u>Southern Sumatra</u> 3.13°S 101.46°E
	epP	A 04 34	H = 10 51 15.1 h = 63 km MAG=5.5
	e	A 04 38.5	D = 92.3° Az = 320.4° (USCGS); h = 50 km PV:1.2s 20.4nm pPV:1.3s 16.7nm MPV=5.3
24.	e	A 12 59 50.5	Explosion
	eiSg	A 59 59	
	eL	A 13 00 05	
	LmH	A 00 20	
24.	eSg	A 16 20 42	<u>Yugoslavia</u> 46.1°N 15.9°E H = 16 17 47 (BCIS) D = 5.4°
25.	+iP	C 01 11 44	<u>Taiwan</u> 24.46°N 122.19°E
	+eiP1	A 11 44.3	H = 00 59 22.6 h = 65 km MAG=6.0
	+iP	B 11 45	D = 83.5° Az = 323.1° (USCGS)
	iP2	A 11 47.0	PV(B):10s 10.7 μ m P2V:1.8s 316nm
	-iPP	B 14 55	SH:15s 17.3 μ m
	ePPP	C 16.8	LmH:18s 63.5 μ m LmV:18s 55.8 μ m
	e(Pa)	C 18.6	MPV=6.9 MP2V=6.1 MSH=7.0 MLH=7.1
	iS	B 22 00	MLV=7.0
	iPS	B 22 44	Multiple P in our short-period registra-
	iPPS	B 23 20	tion. The first onset, 2.7 sec. earlier,
	iSS	C 27 28	is much smaller than the second one.
	i	C 28 22	Probably multiple shocks in the same fo-
	iSSS	C 31 54	cus region.
	eiPKPKP	A 38 05.5	
	eSKPKP	A 41(24)	
e	A 41 52		
LmH	B 47.5		
LmV	B 54.2		
25.	+i(P)	A 01 30 05.8	Aftershock or PKKP of the preceding earthquake? (P)V:1.2s 58.7nm

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Moxa

Day	Phase	h m s	Remarks
25.	ePKP	A 01 51 21	<u>New Hebrides Islands</u> 18.34°S 171.95°E H = 01 31 50.0 h = 41 km MAG=4.9 D = 144.2° Az = 338.5° (USCGS)
25.	eP	A 02 09 45	<u>Taiwan</u> 24.30°N 122.19°E
	e	A 09 50.5	H = 01 57 23.1 h = 67 km MAG=5.3 D = 83.6° Az = 323.1° (USCGS) PV:1.5s 16.8nm MPV=5.0
25.	eP	A 09 33 42	<u>Rat Islands/Aleutian</u> 51.41°N 176.46°E H = 09 21 48.6 h = 33 km MAG=4.8 D = 77.5° Az = 350.2° (USCGS) PV:1.0s 9.5nm MPV=4.9
25.	ePKP2	A 09 36 46	<u>Off East Coast of N. Island, N.Z.</u> 37.06°S 177.47°E H = 09 16 16.0 h = 189 km MAG=5.1 (USCGS) D = 163.0°
25.	e	A 11 10 41	
	e	A 10 46	
25.	e	A 11 26 05	
25.	e	A 11 38 58	
25.	e	A 12 26 53	
26.	eP	A 00 34 44	<u>Taiwan Region</u> 24.48°N 122.24°E
	e	A 35 26	H = 00 22 21.6 h = 63 km MAG=5.6
	ePP	A 37 58	D = 83.5° Az = 323.1° (USCGS)
	LmH	C 01 04	PV:1.8s 61.2nm
	LmV	C 08.7	LmH:40s 2.5 μ m LmV:28s 1.1 μ m MPV=5.5 MLH=5.3 MLV=5.1
26.	e(P)	A 00 53 02.5	Aftershock or PKKP of the preceding earthquake? (P)V:1.4s 12.3nm

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Moxa

Day	Phase	h m s	Remarks
26.	+eP1	A 04 59 52	<u>Turkey</u> 37.25°N 29.14°E
	+eP2	A 59 53	H = 04 55 38.3 h = 35 km MAG=5.1
	eP3	A 59 58	D = 18.3° Az = 322.5° (USCGS)
	e(S)	C 05 03.4	P2V:(1.4s) 52.1nm P3V:1.6s 114nm
	LmH	C 07.7	LmH:16s 2.4/um LmV:14s 2.5/um
	LmV	C 07.8	MP2V=4.5 MP3V=4.7 MLH=4.6 MLV=4.8
26.	LmH	C 12 56.4	<u>Leeward Islands</u> 17.7°N 60.9°E
	LmV	C 56.5	H = 12 21 33.0 h = 33 km MAG=5.2 (USCGS) D = 65.4° LmH:18s 0.7/um LmV:18s 0.8/um MLH=4.9 MLV=5.0
26.	iPg	A 14 10 20.5	Explosion
	iSg	A 10 29	D = ca. 0.7°
26.	LmH	C 14 14	<u>Leeward Islands</u> 17.6°N 61.0°W
	LmV	C 20	H = 13 44 45.1 h = 37 km MAG=5.3 (USCGS) D = 65.6° LmH:24s 0.9/um LmV:20s 1.2/um MLH=4.9 MLV=5.1
26.	eP	A 17 36 08	<u>Molucca Sea</u> 0.2°S 125.2°E
	e	A 36 13	H = 17 22 05.3 h = 42 km MAG=5.6 (USCGS)
	e	A 36 17	D = 104.9°
	e	A 39 58	PV:1.4s 24.5nm
	ePP	A 40 30	LmH:30s 1.0/um LmV:20s 0.8/um
	LmH	C 18(19)	MPV=5.9 MLH=5.2 MLV=5.3
	LmV	C 26.5	e 40 38 e 40 41
26.	e(pP)	A 20 29 37	<u>North Atlantic Ridge</u> 17.42°N 46.44°W
			H = 20 19 43.7 h = normal MAG=4.7 (USCGS) D = 56.5° (pP)V:1.2s 12.7nm The first onset of P must be 7 sec. earlier.
27.	ei	A 08 01 57	Probably to Carpathian Mountains
	e	A 05 44	45.9°N 26 7/4° E H = 07 59 53 (BCIS) D = 11.1°

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Day	Phase	h m s	Remarks
27.	e	A 12 06 56	
27.	e(Pg)	A 14 44 41	Explosion
	eSg	A 45 02	(D = ca. 1.6°)
27.	eP	A 20 53 54.5	<u>Taiwan</u> 24.31°N 122.15°E
			H = 20 41 33.0 h = 74 km MAG=4.9 D = 83.7° Az = 323.1° (USCGS) PV:1.2s 17.9nm MPV=5.1
28.	eP	A 18 51 13	<u>North Atlantic Ridge</u> 24.87°N 45.91°W
	e	A 51 18	H = 18 42 13.7 h = normal MAG=5.1
	e	A 51 25	D = 50.7° Az = 43.9° (USCGS) PV:1.3s 27.8nm MPV=5.2
29.	ePKP	A 08 04 43	<u>South of Fiji Islands</u> 19.26°S 175.75°E
			H = 07 45 04.5 h = 42 km MAG=5.0 D = 146.2° Az = 341.7° (USCGS)
29.	e(PS)	C 13 06.7	<u>South Sandwich Islands Region</u>
	e(SS)	C 13.2	60.8°S 23.1°W
	LmH	B 42.5	H = 12 37 22.2 h = 33 km MAG=5.3 (USCGS)
	LmV	B 42.5	D = 114.6° LmH:18s 0.8/um LmV:18s 0.7/um MLH=5.3 MLV=5.4
30.	ePKP	A 02 56 24	<u>Loyalty Islands</u> 22.02°S 170.12°E
	e	A 56 25.5	H = 02 36 45.1 h = 32 km MAG=4.4
	ePP	A 03 01 05	D = 146.8° Az = 334.8° (USCGS)
	LmH	C 54	PKPV:1.2s 17.9nm
	LmV	C 55	LmH:28s 0.2/um LmV:28s 0.2/um MLH=4.6 MLV=4.7
30.	+iP	A 06 11 46	<u>Eastern Kazakhstan</u> 49.8°N 78.1°E
	ePn	A 13 19	H = 06 03 57.9 h = 0 km MAG=5.5 (USCGS) D = 41.3° PV:0.8s 61.3nm PH:0.9s 27.9nm MPV=5.6 MPH=5.5

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Moxa

Day	Phase	h m s	Remarks
31.	LmH C	00 24	Traces; <u>West New Guinea Region</u> (USCGS)
31.	e(P) A	04 02 48	
31.	ePKP A	10 34 24	<u>South of Fiji Islands</u> 19.74°S 177.33°E
	e A	34 26	H = 10 14 43.8 h = 40 km MAG=5.4
	e A	34 30	D = 147.1° Az = 343.0° (USCGS)
	e A	34 47	PKPV:1.5s 40.5nm
31.	eP1 A	21 11 07.5	<u>Sicily</u> 37.85°N 14.55°E
	ePL C	11 08	H = 21 08 07.2 h = normal MAG=4.8
	lP2 A	11 10.7	D = 13.0° Az = 351.6° (USCGS)
	eS C	13 20	P1V:1.2s 15.3nm P2V:1.2s 53.6nm
	eSS C	13 40	LmH:17s 10.6 μ m LmV:14.5s 8.4 μ m
	LmH B	16.1	MLH=5.0
	LmV B	16.9	Multiple P in our short-period record. Clear PL wave in the long-period record of type C.

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Moxa

Day	Phase	h m s	Remarks
1.	eiPg A	10 35 38	Explosion
	eiSg A	35 54	D = ca. 1.2°
1.	e(Pg) A	12 48 30	Explosion
	e(Sg) A	48 40	
1.	-lPKHKP A	15 19 37.5	<u>South of Fiji Islands</u> 23.00°S 176.83°W
	ePKP2 A	19 45	H = 14 59 58.9 h = 140 km MAG=5.3
	e A	20 07	D = 151.6° Az = 348.7° (USCGS)
			PKHKPV:1.0s 47.3nm PKP2V:1.0s 35.6nm
1.	eP A	16 21 03	<u>Kurile Islands</u> 48.16°N 154.44°E
	LQ C	46.0	H = 16 09 16.7 h = 47 km MAG=5.3
	LmH C	55.0	D = 76.5° Az = 336.7° (USCGS)
	LmV C	58.0	PV:1.4s 43.0nm LmH:21s 0.6 μ m LmV:20s 0.8 μ m MPV=5.4 MLH=4.9 MLV=5.1
1.	-eiP A	16 42 44	<u>Kurile Islands</u> 48.27°N 154.36°E
	LQ C	17 07	H = 16 30 57.1 h = 40 km MAG=5.5
	LmH C	19.7	D = 76.4° Az = 336.6° (USCGS)
			PV:1.0s 42.7nm MPV=5.5
1.	ePP A	19 16 38	<u>West New Guinea Region</u> 4.84°S 135.68°E
	eSS C	32.9	H = 18 56 54.8 h = 14 km MAG=5.8 (USCGS)
	LmH C	59.8	D = 114.8° LmH:22s 1.2 μ m MLH=5.6
1.	eP A	19 29 38.5	<u>Near East Coast of Honshu/Japan</u>
	epP A	29 51.5	37.07°N 141.28°E
			H = 19 17 24.7 h = 72 km MAG=4.7
			D = 82.1° Az = 330.3° (USCGS); h = 52 km
			PV:1.3s 13.9nm pPV:1.1s 16.9nm MPV=4.9

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Moxa

Day	Phase	h m s	Remarks
2.	eIP1 A	03 10 53.5	<u>Greenland Sea</u> 73.22°N 7.66°E
	iP2 A	10 58.0	H = 03 05 51.0 h = normal MAG=4.3 D = 22.7° Az = 173.5° (USCGS) P1V:1.4s 24.5nm P2V:1.5s 33.6nm
3.	-iPKHKP A	07 51 55	<u>New Hebrides Islands</u> 18.67°S 169.01°E
	-iPKIKP A	51 56.2	H = 07 32 50.1 h = 230 km MAG=5.3
	+iPKP B	51 57	D = 143.4° Az = 335.8° (USCGS)
	ePSKS C	08 05.0	PKIKPV:1.6s 116nm PKPV:5.5s 1.3/um
	ePPS C	07.8	LmH:43s 1.7/um
	eSS C	13 50	
	e(PSS) C	14 50	
	e(PSPS) C	15 16	
LmH C	38		
3.	eiSn A	13 22 57.5	<u>Yugoslavia</u> 45.5°N 14.6°E
	eiSg A	23 32.5	H = 13 20 33 (BCIS) D = 5.6°
3.	ePPS C	23 06 12	<u>South Sandwich Islands Region</u>
	eSS C	11.3	56.07°S 24.24°W
	LmH C	26.5	H = 22 37 49.6 h = 155 km MAG=5.4 (USCGS) D = 107.2° LmH:48s 0.7/um
4.	-eP A	05 19 39	<u>Taiwan</u> 24.29°N 122.20°E
	LmH C	06 01	H = 05 07 18.0 h = 76 km MAG=5.0 D = 83.6° Az = 323.2° (USCGS) PV:1.2s 25.5nm LmH:25s 0.3/um MPV=5.2 MLH=4.5
4.	+eiPKIKP A	10 35 51	<u>Fiji Islands</u> 17.84°S 178.99°W
	+iPKHKP A	35 53.3	H = 10 17 14.7 h = 573 km MAG=5.4
	eipPKP B	38 00	D = 146.2° Az = 347.8° (USCGS)
	esPKP B	39 00	PKIKPV:1.2s 51.0nm PKHKPV:1.2s 230nm
	ePSKS C	49 30	
	ePPS C	52 25	
	eSS C	57 25	
	LmH C	11 17.5	

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Day	Phase	h m s	Remarks
4.	iPg A	12 40 17	<u>Explosion/GDR</u>
	iSg A	40 24	D = ca. 0.5°
4.	+iP A	13 39 04.0	<u>Near East Coast of Honshu/Japan</u>
	+iP B	39 04.4	37.35°N 141.65°E
	eipP A	39 16.5	H = 13 26 47.7 h = 46 km MAG=5.7
	ePP A	42 06	D = 82.0° Az = 330.5° (USCGS); h = 46 km
	eS C	49 12	PV(A):1.7s 140nm PV(B):6.5s 1.1/um
	ePS C	50 08	SH(B):12s 1.0/um
	eSS C	54.5	LmH:18s 4.3/um LmV:17s 4.0/um
	LmH B	14 13.9	MPV(A)=5.8 MPV(B)=6.1 MSH=5.9
	LmV B	18.7	MLH=5.9 MLV=5.9
	4.	+eP1 A	14 42 31.5
iP2 A		42 33.8	H = 14 30 37.5 h = 30 km MAG=5.8
eipP A		42 42	D = 77.5° Az = 331.2° (USCGS); h = 40 km
i(sP) A		42 49	P1V:1.5s 36.9nm P2V:1.5s 90.5nm
iX B		45 00	LmH:14.5s 44.5/um LmV:19s 21.5/um
ePP A		45 25	MP1V=5.3 MP2V=5.7 MLH=6.9 MLV=6.5
iY B		46 40	i 52 30.5 i 53 04 i 01 38
ePPP A		47 10	Multiple P in our short-period records,
eS B		52 20	the first onset much smaller than the
iS B		52 24	second one. X and Y are distinct phases
i(SKS) B		52 38	in the long-period records, about 25 sec.
iSP B		52 50	and 30 s earlier than expected for PP and
eSS C		57.2	PPP, respectively. LQ begins with periods
eLQ C	15 02.6	around 90 - 100 sec. Exceptionally clear	
LmH B	17.1	normal dispersed surface wave train in	
LmV B	20.9	the registrations of type C.	
4.	ei A	14 57 50	
4.	eP A	14 57 57	<u>Hokkaido/Japan</u> 43.45°N 144.01°E
	e A	58 16.5	H = 14 46 01.9 h = normal MAG=5.4 D = 77.5° Az = 331.2° (USCGS) PV:1.8s 51.0nm MPV=5.4

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Day	Phase	h m s	Remarks
4.	eP A	16 13 21	<u>Gulf of Alaska</u> 59.41°N 145.04°W
	e(pP) A	13 26	H = 16 02 19.4 h = normal MAG=4.7 D = 68.7° Az = 15.7° (USCGS) PV:1.6s 26.5nm (pP)V:1.6s 37.9nm MPV=5.2
4.	eP A	16 39 45.5	<u>Peru - Ecuador Border Region</u>
	eipP A	40 11.5	2.76°S 77.68°W
	esP A	40 22.5	H = 16 26 48.2 h = 99 km MAG=6.0
	iSKS B	50 12	D = 91.7° Az = 39.6° (USCGS); h = 99 km
	iS B	50 40	PV:2.2s 175nm pPV:1.6s 90.9nm
	e(SP) C	52 06	SH:8s 1.7/um SKSH:8s 1.7/um
	iPS B	52 18	PSH:11s 1.4/um
	eSS C	56.9	LmH:56s 3.1/um LmV:50s 2.7/um
	LmH C	17 11.4	MPV=5.9 MSH=5.9
	LmV C	11.4	
5.	eP A	00 29 29	<u>Greece</u> 38.11°N 20.46°E
			H = 00 26 12.9 h = normal MAG=4.3 D = 14.0° Az = 336.2° (USCGS)
6.	iP A	04 16 30	<u>Iceland Region</u> 68.48°N 18.22°W
	e A	16 38.5	H = 04 11 30.0 h = 36 km MAG=4.2 (USCGS)
	e A	16 44	D = 23.0°
	LmH B	26.5	
6.	-iP A	05 54 57	<u>Iceland Region</u> 67.96°N 18.76°W
	e A	55 03	H = 05 49 49.0 h = normal MAG=4.5 (USCGS)
	LmV B	06 04.0	D = 22.9°
	LmH B	04.6	PV:1.2s 20.4nm LmH:16s 0.6/um LmV:(16s) 0.2/um MPV=4.5 MLH=4.1 MLV=3.8
6.	eP A	10 36 06	<u>Greece - Albania Border Region</u>
	e A	36 16	39.25°N 20.70°E
	e A	36 52.5	H = 10 33 01.2 h = 39 km MAG=4.4
	LmH B	40.8	D = 13.1° Az = 333.6° (USCGS)
	LmV B	41.6	LmH:13.5s 1.2/um LmV:12s 0.6/um MLH=4.1
			1 36 28 e 37 23 e 40 05

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Day	Phase	h m s	Remarks
6.	ePKP A	21 51 36	<u>Fiji Islands</u> 17.72°S 178.74°W
			H = 21 32 56.5 h = 549 km MAG=4.5 D = 146.1° Az = 348.2° (USCGS)
7.	+ePKP A	04 08 48.5	<u>Samoa Islands</u> 14.89°S 172.98°W
	epPKP A	09 02.5	H = 03 49 17.4 h = 43 km MAG=5.6
	eSS C	31 40	D = 144.1° Az = 355.0° (USCGS); h = 50 km
	LmV B	05 16.3	PKPV:1.5s 80.5nm pPKPV:1.5s 60.4nm
	LmH B	16.5	LmH:18s 0.8/um LmV:18s 1.1/um MLH=5.5 MLV=5.7
7.	ePb A	05 47 17	<u>Etruscan Appenin</u> 44.1°N 11.9°E
	ePg A	47 39	H = 05 45 24 (BCIS)
	eLg2(3.28)A	49 08.5	D = 6.6°
	e A	49 13	
	e A	49 28	
7.	eiPg A	13 08 21.5	Explosion
	eiSg A	08 35.5	D = ca. 1.1°
7.	e(Sg) A	13 10 39	Near earthquake?
	e A	10 49.5	
7.	epP A	20 05 53	<u>Afghanistan - USSR Border Region</u>
	ei A	05 56.5	36.98°N 71.69°E
	esP A	06 10	H = 19 57 26.1 h = 136 km MAG=5.3 D = 44.3° Az = 307.8° (USCGS); h = 140 km
8.	eP A	02 52 42.5	<u>Kenai Peninsula/Alaska</u> 58.96°N 150.19°W
			H = 02 41 34.1 h = 34 km MAG=4.4 D = 69.8° Az = 12.2° (USCGS)
8.	eP A	03 23 10	<u>Caribbean Sea</u> 16.83°N 85.89°W
	e A	23 25	H = 03 10 53.3 h = 28 km MAG=5.4
	e A	23(33)	D = 81.8° Az = 39.6° (USCGS)
	eSS C	38.7	PV:1.6s 30.3nm
	LmH C	58.5	LmH:19s 0.5/um LmV:20s 0.5/um
	LmV C	58.5	MPV=5.2 MLH=4.9 MLV=4.9

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Day	Phase	h m s	Remarks
8.	ePP A	06 27 03	<u>Aroe Islands Region</u> 5.26°S 133.97°E
	e A	27 27	H = 06 07 21.4 h = normal MAG=5.9 (USCGS)
	e A	27 35	D = 114.2°
	ePPS C	37.6	LmH:22s 1.0/um LmV:24s 0.7/um
	eSS C	43.0	MLH=5.4 MLV=5.2
	LmH C	07 10.0	
	LmV C	20.0	
8.	eSS C	07 51	<u>Southern Pacific Ocean</u> 36.16°S 100.73°W
	eSSS C	56.0	H = 07 11 59.3 h = normal MAG=4.6 (USCGS)
	LmH C	08 16.5	D = 130.6°
	LmV C	16.5	LmH:25s 0.4/um LmV:25s 0.4/um MLH=5.0 MLV=5.0
8.	eiPg A	09 01 44.5	Explosion
	eiSg A	01 58	D = ca. 1.0°
8.	eP A	15 12 18	<u>Nevada; Underground explosion</u> H = 15 00 00 (UPP) D = 81.1° Obscured by short-period microseisms.
8.	eP A	17 21 24.5	<u>Rat Islands/Aleutian</u> 51.12°N 178.52°E
	e A	21 58	H = 17 09 27.1 h = 29 km MAG=5.3
	eS C	31 18	D = 78.0° Az = 351.5° (USCGS)
	e C	31 25	PV:1.0s 16.6nm
	eSS C	36.5	LmH:17s 1.8/um LmV:17s 1.6/um
	LmH B	18 03.1	MPV=5.1 MLH=5.5 MLV=5.4
LmV B	03.8		
8.	-eP A	17 34 32.5	<u>Rat Islands/Aleutian</u> 51.07°N 178.42°E
	eS C	44.5	H = 17 22 32.1 h = 10 km MAG=5.2 D = 78.0° Az = 351.5° (USCGS) PV:(1.0s) 14.2nm MPV=5.1
8.	eiPg A	17 43 46	<u>North Italy</u> 45.8°N 10.8°E
	eSn A	44 21	H = 17 42 14 (BCIS)
	eSg A	44 46.5	D = 4.9°
	eiLg2 A	44 56	

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Day	Phase	h m s	Remarks
9.	eiPKIKP A	02 36 14	<u>Banda Sea</u> 7.18°S 123.63°E
	eiPP A	37 00	H = 02 18 45.5 h = 560 km MAG=5.8
	eSP C	45.2	D = 109.4° Az = 321.3° (USCGS)
	eSPP C	46.4	PKIKPV:1.2s 15.3nm PKKPV:1.0s 9.5nm
	ePKKP A	47 20	e 39 18 e 40 19
	LmV C	03 23.5	
	LmH C	(25)	
9.	ePKP A	02 40 20.5	<u>Fiji Islands</u> 15.78°S 178.41°E
	e A	40 27	H = 02 20 51.0 h = 84 km MAG=4.8 D = 143.6° Az = 345.8° (USCGS)
9.	eP A	07 58 53	<u>Alaska Peninsula</u> 54.80°N 162.18°W
	e(pP) A	59 07	H = 07 47 16.0 h = 40 km MAG=4.7
	ei A	59 35	D = 74.8° Az = 4.1° (USCGS) PV:1.4s 15.3nm MPV=4.9
9.	eP A	14 53 06	<u>Dodecanese Islands</u> 35.51°N 27.76°E
	e A	53 17.5	H = 14 48 44.2 h = 47 km MAG=5.7
	e A	53 31	D = 19.1° Az = 327.3° (USCGS)
	e A	53 42	PV:1.2s 12.8nm
	LmH B	15 03	
LmV B	03		
9.	+eiP A	18 31 53.5	<u>Near East Coast of Honshu/Japan</u>
	ePcP A	31 57.5	35.47°N 140.09°E
	e(pP) A	31 07	H = 18 19 35.0 h = 68 km MAG=5.3
	e A	31 13	D = 83.0° Az = 329.9° (USCGS); (h = 50 km)
	e A	31 24	PV:1.2s 17.9nm MPV=5.1
9.	ePKP A	20 31 02	<u>Tonga Islands</u> 15.08°S 173.19°W
			H = 20 11 32.1 h = 65 km MAG=4.9 D = 144.3° Az = 354.8° (USCGS)
10.	LmH C	03 14.5	<u>Iran</u> 35 3/4°N 53 3/4°E
			H = 02 50 52 (BCIS) D = ca. 34°

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Day	Phase	h m s	Remarks
10.	LmH LmV	B 04 02 B 02	LmH:17s 0.3/um LmV:17s 0.4/um
10.	LmH LmV	B 04 17.7 B 17.7	LmH:16s 0.6/um LmV:18s 0.6/um
10.	eP e LmH LmV	A 04 26 17 A 26 25 B 36 B 36	Probably North Atlantic Ridge LmH:18s 0.7/um LmV:17s 0.7/um (MLH=4.3 MLV=4.4)
10.	eP eS eLR LmH LmV	A 04 45 55 C 50.6 C 52.8 B 56.1 B 56.5	<u>North Atlantic Ridge</u> 45.07°N 28.08°W H = 04 40 15.0 h = normal MAG=4.8 D = 27.0° Az = 63.7° (USCGS) PV:1.8s 30.6nm LmH:16.5s 2.3/um LmV:16s 2.6/um MPV=4.7 MLH=4.8 MLV=5.0
10.	eP LmH LmV	A 05 17 42.5 B 28 B 28	<u>North Atlantic Ridge</u> 45.04°N 28.10°W H = 05 12 01.4 h = normal MAG=4.4 (USCGS) D = 27.0° LmH:16s 0.7/um LmV:16s 0.7/um MLH=4.4 MLV=4.4
10.	eP e LmH LmV	A 05 56 09 A 56 18 C 06 06.3 B 06.5	<u>North Atlantic Ridge</u> 44.77°N 28.12°W H = 05 50 27.6 h = normal MAG=4.7 D = 27.1° Az = 63.2° (USCGS) PV:1.5s 16.8nm LmH:18s 0.5/um LmV:16s 0.5/um MPV=4.6 MLH=4.1 MLV=4.3
10.	eP	A 06 14 43	<u>India - East India Border Region</u> 25.49°N 91.71°E H = 06 04 09.4 h = 59 km MAG=4.4 D = 64.6° Az = 316.0° (USCGS) PV:1.0s 7.1nm MPV=4.8

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Day	Phase	h m s	Remarks
10.	eISg	A 10 01 17.5	<u>Explosion/CSSR</u> 48.73°N 14.50°E Yield: 12.6 t (PRU) D = 2.7°
10.	ePKIKP +iPKHKP -ePKP2 e	A 13 29 52.5 A 29 54.8 A 29 57.5 A 30 08.5	<u>Fiji Islands</u> 17.99°S 178.47°W H = 13 11 18.1 h = 592 km MAG=5.0 D = 146.4° Az = 348.4° (USCGS) PKIKPV:0.8s 14.2nm PKHKPV:1.2s 51.0nm PKP2V:1.0s 26.1nm
10.	eP	A 18 40 39	<u>Central Alaska</u> 62.33°N 151.43°W H = 18 29 57.3 h = 90 km MAG=4.9 D = 66.6° Az = 11.7° (USCGS) PV:0.8s 16.5nm MPV=5.0
10.	eP1 iP2 iP3 eS eSS eSSS eSa(4.45) LmH LmH	A 18 50 24 A 50 29.8 A 50 33.5 B 19 00 08 C 04 55 C 08.5 C 10 28 C 14.2 B 24.3	<u>Chagos Archipelago Region</u> 5.98°S 71.38°E H = 18 38 37.6 h = 32 km MAG=5.4 D = 76.2° Az = 325.5° (USCGS) P1V:1.2s 20.4nm P2V:1.2s 38.3nm LmH(C):40s 2.4/um LmH(B):18s 0.4/um MP1V=5.1 MP2V=5.4 MLH(C)=5.2 MLH(B)=4.8 e 00 20 e 05 00 Multiple P in our short-period records. If we interpret P2 as pP and P3 as sP then the focal depth would be about 24 km.
10.	eP	A 21 00 14.5	<u>Kurile Islands</u> 45.27°N 149.77°E H = 20 48 25.7 h = 95 km MAG=4.8 D = 77.8° Az = 334.2° (USCGS) PV:0.9s 14.2nm MPV=5.1
11.	eP	A 00 33 33	<u>Bonin Islands</u> 28.41°N 138.57°E H = 00 21 37.6 h = 529 km MAG=4.3 D = 88.4° Az = 329.4° (USCGS)

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Day	Phase	h m s	Remarks
11.	eP	A 02 37 47	<u>Uganda</u> 2.05°N 31.53°E
	LmH	C 59	H = 02 28 45.6 h = normal MAG=5.1
	LmV	C 03 02	D = 51.3° Az = 343.9° (USCGS) PV:1.4s 30.7nm MPV=5.2
11.	ePg	A 11 19 59	Explosion/ <u>CSSR</u> 50.35°N 14.03°E
	eSg	A 20 19.5	Yield: 30.8 t (PRU) D = 1.6°
11.	-eP	A 12 07 41	<u>Chagos Archipelago Region</u> 6.0°S 71.3°E
	epP	A 07 47.5	H = 11 55 55.6 h = 37 km MAG=5.6
	esP	A 07 51	D = 76.2° Az = 325.5° (USCGS); h = 26 km
	eS	B 17 22	PV:2.0s 66.3nm pPV:1.6s 60.5nm
	eSS	B 22 11	SH:11s 0.7 μ m
	eSa	C 27 50	LmH:44s 1.9 μ m
	LmH	C 31.5	MPV=5.4 MSH=5.7 MLH=5.1
	11.	-eP	A 12 26 43.5
epP		A 26 51	H = 12 14 57.3 h = 34 km MAG=5.7
ePP		C 29 33	D = 76.1° Az = 325.5° (USCGS); h = 28 km
eS		B 36 28	PV:1.5s 73.8nm SH:12s 2.0 μ m
eSS		C 41 10	LmH:16s 1.4 μ m LmV:16s 1.9 μ m
eSa		C 46 38	MPV=5.6 MSH=6.1 MLH=5.4 MLV=5.6
LmH		B 13 11.5	e 29 (00)
LmV		B 11.7	
11.		eP	A 15 16 56.5
	e(sP)	A 17 06	H = 15 05 10.3 h = normal MAG=5.3 D = 76.3° Az = 325.5° (USCGS); (h = 28 km)
11.	+eP	A 18 11 48.5	<u>Chagos Archipelago Region</u> 6.12°S 71.35°E
	eS	B 21 28	H = 18 00 00.7 h = normal MAG=5.7
	eSS	C 26 16	D = 76.3° Az = 325.5° (USCGS)
	eSa	C 31 50	PV:2.4s 136nm SH:14s 1.1 μ m
	LmH	C 35.5	LmH:44s 1.3 μ m MPV=5.7 MSH=5.8

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Day	Phase	h m s	Remarks
11.	+eP	A 20 29 59.5	<u>Chagos Archipelago Region</u> 5.97°S 71.27°E
			H = 20 18 11.1 h = 20 km MAG=5.4
			D = 76.1° Az = 325.5° (USCGS)
			PV:2.0s 59.3nm MPV=5.4
11.	e	A 23 40 14	
12.	e(P)	A 00 03 02	
12.	eP	A 02 39 13	<u>Kurile Islands</u> 44.80°N 149.78°E
	e	A 04 40 24	H = 02 27 16.6 h = 41 km MAG=5.5 D = 78.2° Az = 334.3° (USCGS) PV:1.2s 40.8nm MPV=5.4
12.	ePKIKP	A 10 56 29	<u>Tonga Islands</u> 17.20°S 171.99°W
	+iPKP	B 56 30	H = 10 36 52.0 h = 34 km MAG=5.6
	+iPKHKP	A 56 31.5	D = 146.5° Az = 355.8° (USCGS); h = 39 km
	iPKP2	A 56 34.0	PKHKPV:1.4s 255nm PKPV:7s 2.8 μ m
	-eipPKP	B 56 41	pPKPV:6s 5.2 μ m
	-ipPKP	A 56 41.3	LmH:20s 2.2 μ m LmV:19s 2.2 μ m
	ePP	A 11 00 08	MLH=5.9 MLV=5.9
	eSKKS	C 06 40	1 56 48.8 e 59 52 e 04 (00)
	ePSKS	C 09.9	
	ePPS	C 12.6	
	eSS	C 19.0	
	eSSS	C 25.0	
	LmH	B 12 02.0	
LmV	B 05.3		
12.	ePKIKP	A 17 44 14.5	<u>Loyalty Islands</u> 22.82°S 170.74°E
	ePKHKP	A 44 18.5	H = 17 24 31.9 h = 26 km MAG=5.1
	LmH	C 18 43	D = 147.8° Az = 334.8° (USCGS)
12.	e(PKHKP)	A 22 19 22	<u>South of Fiji Islands</u> 25.24°S 177.20°W
	e	A 19 24	H = 21 59 50.7 h = 225 km MAG=4.9
	e(PKP2)	A 19 34	D = 153.7° Az = 347.3° (USCGS)

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Day	Phase	h m s	Remarks
13.	eP	A 06 54 40	<u>Turkey</u> 37.87°N 29.13°E
	e	A 55 39	H = 06 50 33.8 h = 46 km MAG=4.6
	LmH	B 07 00.7	D = 17.8° Az = 321.3° (USCGS)
	LmV	B 02.3	PV:1.8s 35.7nm LmH:15.5s 2.1/um LmV:11s 1.5/um MLH=4.5 MLV=4.7
14.	e(P)	A 00 15 10	<u>India - East Pakistan Border Region</u>
	e	A 15 29.5	23.96°N 91.47°E
	LmH	C 40.3	H = 00 04 17.8 h = normal MAG=5.1 (USCGS)
	LmV	C 46.5	D = 65.7° LmH:32s 0.5/um LmV:24s 0.4/um MLH=4.5 MLV=4.6
14.	ePKIKP	A 05 47 07.5	<u>East New Guinea</u> 5.43°S 147.07°E
	ePP	A 48 37.5	H = 05 28 36.9 h = 201 km MAG=5.8
	LmH	C 06 28	D = 121.6° Az = 328.4° (USCGS)
	LmV	C 34.3	PKIKPV:1.4s 30.7nm LmH:39s 1.8/um LmV:25s 0.6/um
14.	e(Sg)	A 10 34 25	Explosion?
	e	A 34 28	(Sg)V:1.0s 14.2nm
14.	eIPKP	A 20 04 00	<u>Tonga Islands</u> 18.02°S 175.24°W
	epPKP	A 05 02	H = 19 44 45.6 h = 255 km MAG=4.4 D = 147.0° Az = 352.0° (USCGS) PKPV:1.4s 28.6nm
15.	LmH	C 18 15.0	Traces
15.	eP	A 21 46 11	<u>Near Coast of Central Chile</u>
	ePKIKP	A 50 19	28.75°S 71.16°W
	ePP	B 50 43	H = 21 31 51.5 h = 15 km MAG=6.2
	eISKS	C 56 51	D = 107.4° Az = 41.4° (USCGS)
	eSP	C 59 51	PKIKPV:1.7s 39.5nm PPV:7s 1.4/um
	eIPS	C 59 58	PKPV:1.6s 22.8nm
	eSPP	C 22 00 54	LmH:18.5s 7.4/um LmV:19.5s 10.7/um
	ePKKP	A 01 49.5	MPPV=6.7 MLH=6.3 MLV=6.4
	eSS	C 05 30	e 50 15 e 50 18.5 e 50 46.5 e 01 53
	eLQ	C 15.7	e 02 07.5

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Day	Phase	h m s	Remarks
cont.			
15.	LmV	B 22 35.7	
	LmH	B 36.1	
16.	eP	A 02 29 54	<u>Ethiopia</u> 15.09°N 39.82°E
			H = 02 22 03.1 h = normal MAG=5.1 D = 42.1° Az = 333.4° (USCGS)
16.	eiPg	A 10 38 07	Explosion
	eiSg	A 38 22.5	D = ca. 1.2°
16.	e(P)	A 12 04 49.5	(P)V:1.3s 38.9nm
16.	e	A 12 10 35	Near earthquake?
	e(Sg)	A 10 40.5	KHC gives: eiPg 09 56.2 eiSg 10 25.6
	e	A 10 41.5	D = 2.3°
16.	eiPKHKP	A 16 49 46	<u>Fiji Islands</u> 20.72°S 178.75°W
			H = 16 31 03.6 h = 591 km MAG=4.5 D = 149.0° Az = 347.1° (USCGS) PKHKPV:1.1s 12.0nm
16.	eiSg	A 19 52 44.5	Explosion?
			KHC gives: eiSg 52 30.5 D = 1.2°
16.	eiSg	A 20 05 42.5	Explosion?
			KHC gives: eiPg 05 10.5 eiSg 05 27.5 D = 1.3°
17.	eP1	A 05 07 25.5	<u>North Atlantic Ridge</u> 28.45°N 43.83°W
	eP2	A 07 30.5	H = 04 58 56.8 h = normal MAG=5.2
	eiS	B 14 17	D = 46.9° Az = 45.9° (USCGS)
	iSS	C 17 56	P1V:1.8s 30.6nm P2V:1.8s 51.0nm
	iLQ	C 18.5	SH:16.5s 3.2/um
	eLR	C 20.5	LmH:16.5s 5.5/um LmV:17s 7.6/um
	LmH	B 24.3	MP1V=5.1 MP2V=5.3 MSH=6.1 MLH=5.6
	LmV	B 24.4	MLV=5.8 e 07 34.5 e 08 34 e 14 24

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Day	Phase	h m s	Remarks
17.	ePKIKP e LmH	A 09 38 16 A 38 33 C 10 25	<u>Solomon Islands</u> 6.31°S 154.78°E H = 09 19 24.2 h = 91 km MAG=5.0 D = 126.2° Az = 331.8° (USCGS) LmH:23s 0.6 μ m MLH=5.2
17.	ePKP	A 10 29 05.5	<u>New Hebrides Islands</u> 13.72°S 167.28°E H = 10 10 04.7 h = 215 km MAG=4.5 D = 138.2° Az = 336.8° (USCGS)
17.	e	A 12 47 37.5	Explosion?
17.	LmH	C 14 52.6	<u>Taiwan Region</u> 24.00°N 122.26°E H = 13 58 35.3 h = 36 km MAG=5.1 (USCGS) D = 83.8° LmH:16s 1.0 μ m MLH=5.3
18.	eP1 eP2 e e eIQ LmH	A 02 35 39 A 35 49 A 36 06.5 A 37 04 C 39.0 C 41.5	<u>Crete</u> 35.20°N 23.11°E H = 02 31 35.4 h = 43 km MAG=4.5 D = 17.5° Az = 335.1° (USCGS) LmH:27s 4.9 μ m MLH=4.6 Successive P-onsets with increasing amplitudes.
18.	e	A 03 20 54.5	
18.	ei(P2) e	A 03 37 43.5 A 37 59	<u>Crete</u> 35.31°N 23.02°E H = 03 33 34.3 h = normal MAG=4.3 D = 17.4° Az = 335.1° (USCGS) The first onset of P must be about 7.5 s earlier than (P2).
18.	e e(Sg)	A 09 36 06 A 36 22	Explosion/ <u>CSSR</u> KHC gives: D = 129 km Yield: 9.3 t
18.	e e(Sg)	A 11 04 40 A 04 45.5	(Sg)V:0.8s 16.5nm

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Day	Phase	h m s	Remarks
18.	e(P)	A 12 00 18	(P)V:1.0s 14.2nm
18.	eP LmH	A 12 29 31.5 C 13 09.5	<u>El Salvador</u> 13.37°N 89.07°W H = 12 16 55.4 h = 78 km MAG=5.1 D = 86.4° Az = 38.8° (USCGS)
18.	e(P)	A 16 56 49.5	
18.	ePKHKP e	A 22 00 47 A 00 55.5	<u>South of Fiji Islands</u> 22.10°S 179.55°W H = 21 41 58.3 h = 553 km MAG=4.3 D = 150.2° Az = 345.6° (USCGS) PKHKPV:0.6s 16.7nm
19.	e(S) e e	A 01 35 23 A 36 23 A 36 45.5	<u>Yugoslavia</u> 41 1/4°N 20 3/4°E H = 01 30.5 (BCIS); M=3.7 (SKOPJE) D = 11.3°
19.	e(Sg) e e	A 10 10 53.5 A 11 04 A 11 15	Probably near earthquake. KHC gives: ePg 09 30.5 eiSg 10 14.5 D = 3.4°
19.	+IP epP esP ePP eS eSS LmH LmV	A 12 19 19.4 A 19 31.5 A 19 37 B 22 30 C 29 32 C 34(40) B 58.8 B 13 01.3	<u>Near East Coast of Honshu/Japan</u> 36.40°N 141.10°E H = 12 06 59.5 h = 41 km MAG=5.5 D = 82.6° Az = 330.3° (USCGS); h = 47 km PV:1.3s 122nm pPV:1.4s 116nm sPV:1.2s 56.1nm PPV:5.5s 0.6 μ m LmH:16s 2.1 μ m LmV:16s 2.6 μ m MPV=5.9 MPPV=6.2 MLH=5.6 MLV=5.7 ei 22 12 e 35 (24)
19.	e e(Sg)	A 14 34 33 A 35 07	<u>Etruscan Appenin</u> 44.3°N 10.4°E H = 14 31 31 (BCIS) D = 7.4°
19.	ePKHKP	A 15 59 54	<u>Fiji Islands</u> 21.5°S 179.3°W H = 15 41 09.6 h = 588 km MAG=4.4 D = 149.6° Az = 346.3° (USCGS) PKHKPV:0.9s 9.4nm

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Day	Phase	h m s	Remarks
19.	ePKP	B 17 48 58	<u>Loyalty Islands</u> 22.60°S 170.94°E
	ePKP	A 49 03	H = 17 29 20.9 h = normal MAG=5.2
	-lPKP	B 49 04	D = 147.7° Az = 335.1° (USCGS)
	ePP	C 52 30	PKPV(B):12s 8.8 μ m
	eSKKS	C 59.4	LmH:21.5s 6.5 μ m LmV:22s 7.2 μ m
	iPSKS	C 18 02 46	MLH=6.3 MLV=6.4
	eiPPS	C 05.0	e 49 10
	iX	C 07 46	
	eSS	C 11.6	
	eiSSS	C 17 20	
	LmH	B 54.5	
	LmV	B 55.4	
19.	ei	A 18 01 40.	
19.	ePKP	A 18 09 02	<u>Loyalty Islands</u> 22.59°S 170.83°E
	ei	A 09 05.5	H = 17 49 20.3 h = 38 km MAG=4.5 D = 147.6° Az = 335.0° (USCGS)
19.	ePKP	A 18 52 04	<u>Loyalty Islands</u> 22.60°S 171.17°E H = 18 32 18.2 h = 21 km MAG=4.7 D = 147.8° Az = 335.4° (USCGS)
19.	ePKP	A 19 25 40	<u>Loyalty Islands</u> 22.74°S 170.98°E H = 19 05 57.1 h = normal MAG=4.4 D = 147.8° Az = 335.1° (USCGS) PKPV:1.1s 7.2nm
19.	ePKIKP	A 20 39(18)	<u>Loyalty Islands</u> 22.64°S 170.72°E
	ePKHKP	A 39 21.5	H = 20 19 35.0 h = normal MAG=4.3
	ePKP2	A 39 26	D = 147.6° Az = 334.9° (USCGS)
19.	ePKIKP	A 22 02 48	<u>Loyalty Islands</u> 22.71°S 170.78°E
	e	A 02 49.5	H = 21 43 07.0 h = 31 km MAG=4.6 D = 147.7° Az = 334.9° (USCGS) PKIKPV:0.9s 9.4nm
19.	ePKP	A 23 12 42	<u>Loyalty Islands</u> 22.84°S 170.17°E H = 22 53 07.3 h = 32 km D = 147.6° Az = 334.3° (USCGS)

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Day	Phase	h m s	Remarks
20.	eSg	A 01 04 00	<u>GFR</u> 49.5°N 8.5°E H = 01 02 46 (BCIS) D = 2.4°
20.	ePKP	A 02 31 06	<u>Tonga Islands</u> 15.29°S 174.33°W
	LmH	C 03 31	H = 02 11 25.3 h = normal MAG=4.8 D = 144.4° Az = 353.5° (USCGS)
20.	iP	A 10 26 28.5	<u>Sea of Okhotsk</u> 51.16°N 151.27°E H = 10 15 43.0 h = 426 km MAG=4.7 D = 72.9° Az = 334.5° (USCGS) PV:1.0s 30.8nm MPV=4.9
20.	+eiP	A 11 01 08.5	<u>South of Honshu/Japan</u> 32.03°N 140.87°E
	eipP	A 01 26	H = 10 48 31.8 h = 65 km MAG=5.0
	ePP	A 04 29.5	D = 86.3° Az = 330.4° (USCGS); h = 68 km PV:1.4s 24.5nm pPV:1.1s 24.1nm MPV=5.2
20.	ePKP	A 13 25 23	<u>Loyalty Islands</u> 20.54°S 168.79°E H = 13 05 47.1 h = normal MAG=4.4 D = 145.0° Az = 334.5° (USCGS) PKPV:1.3s 13.9nm
21.	iP	A 09 02 59.0	<u>North of Ascension Islands</u> 0.10°N 17.09°W
	e	A 03 18	H = 08 53 22.4 h = normal MAG=4.8 D = 56.0° Az = 21.7° (USCGS) PV:1.2s 20.4nm MPV=5.1
21.	iPg	A 10 37 38.7	Explosion
	iSg	A 37 54.5	D = ca. 1.2°
21.	e(P)	A 14 37 50	(P)V:1.1s 9.6nm
21.	eSg	A 16 55 48	Probably explosion. KHC gives: eiPg 55 16 iSg 55 34.2 D = 1.4° SgV:0.8s 16.5nm

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Day	Phase	h m s	Remarks
21.	eP	A 17 07 20	<u>Jan Mayen Region</u> 72.8°N 8.5°E
	iPL	C 07 23	H = 17 02 20 (BCIS)
	iS	C 11 26.5	D = 22.3°
	eLR	C 12.8	PV(A):1.8s 97.0nm PV(B):(10s) 2.0/um
	LmV	B 16.5	SH(B):(13s) 3.6/um
	LmH	B 16.6	LmH:17s 5.2/um LmV:18s 6.3/um MPV(A)=5.0 MPV(B)=5.6 MSH=5.5 MLH=5.1 MLV=5.4 Multiple P.
21.	eP	A 21 55 51.5	<u>North Atlantic Ridge</u> 48.15°N 27.83°W
	e	A 55 55	H = 21 50 24.3 h = normal MAG=5.0
	e	A 56 10.5	D = 25.6° Az = 69.5° (USCGS)
	LmH	B 22 04.9	LmH:14s 0.7/um LmV:9s 0.6/um
	LmV	B 06.9	MLH=4.4 MLV=4.6
22.	eP	A 06 02 59.5	<u>Kurile Islands</u> (UPP) PV:1.6s 31.6nm MPV=5.2
22.	e(Sg)	A 10 46 39	Explosion? KHC gives: ePg 46 22.5 eiSg 46 41.2 D = 1.4°
22.	ePKP	A 15 39 07	<u>Loyalty Islands</u> 22.71°S 170.91°E
	+iPKP	B 39 09	H = 15 19 26.8 h = 42 km MAG=5.2
	ei	A 39 13	D = 147.8° Az = 335.0° (USCGS); (h = 121 km)
	e(pPKP)	B 39 42	PKPV(B):7s 3.6/um (pPKP)V:6.5s 2.8/um
	LmV	C 34.5	LmH:40s 1.9/um LmV:35s 1.4/um MLH=5.5 MLV=5.5
22.	e(P)	A 15 53 30	(P)V:0.9s 9.4nm (pP)V:1.2s 12.8nm
	e(pP)	A 55 22	(h = ca. 450 km)
22.	ePKP	A 17 00 17	<u>Loyalty Islands</u> 23.01°S 170.98°E H = 16 40 33.0 h = 22 km MAG=4.7 D = 148.1° Az = 334.9° (USCGS)
22.	e	A 21 57 24	

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Day	Phase	h m s	Remarks
23.	eP	A 08 06 37.5	
23.	-eiP1	A 08 44 37	<u>Eastern Gulf of Aden</u> 14.53°N 52.07°E
	-iP2	A 44 40.5	H = 08 35 49.5 h = 3 km MAG=5.8
	-iP	B 44 44.3	D = 48.6° Az = 326.6° (USCGS)
	eiP3	A 44 46.8	P2V:2.0s 132nm P3V:1.8s 428nm
	iP4	A 44 57.8	PV(B):7s 5.5/um SH(B):10.5s 18.8/um
	iPP	B 46 32	LmH:18.5s 44.2/um LmV:16s 37.3/um
	iX	B 46 41	MP2V=5.7 MP3V=6.2 MPV(B)=6.8
	iS	C 51 44	MSH(B)=7.1 MLH=6.5 MLV=6.5
	eiSS	B 55 15	Exceptionally clear multiple P with
	LmH	B 09 07	successively increasing amplitudes.
LmV	B 11.5		
23.	eP	A 10 14 42.5	PV:1.2s 10.2s
23.	eSg	A 12 02 13	Explosion?
23.	iPg	A 13 07 59.3	Explosion
	eiSg	A 08 13	D = ca. 1.0°
23.	ePn	A 13 19 51.5	<u>South Bavaria/GFR</u> 47.9°N 11.0°E
	e	A 19 53.5	H = 13 19 04 (BCIS)
	ePb	A 19 56.5	D = 2.8°
	eSn	A 20 21	
	eSg	A 20 35	
23.	eSg	A 13 27 04.5	Near earthquake? KHC gives: eiSg 26 27.5 D = 1.9°
23.	-eiP1	A 13 48 11.5	<u>North of Svalbard</u> 80.19°N 0.99°W
	-iP2	A 48 19.0	H = 13 42 01.6 h = 10 km MAG=5.8
	iS	C 53 00	D = 30.0° Az = 163.8° (USCGS)
	eiS	B 53 08	P1V:1.4s 172nm P2V:1.8s 449nm
	iLR	C 56 06	SH(B):14.5s 8.7/um
	LmH	B 14 00.6	LmH:16.5s 15.5/um LmV:17s 21.7nm
	LmV	B 00.6	MP1V=5.7 MP2V=6.0 MSH=6.3 MLH=5.7 MLV=6.0 Multiple P.

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Day	Phase	h m s	Remarks
23.	iPg	A 14 20 33.8	Explosion
	eSg	A 20 49	D = ca. 1.1°
	iSg	A 20 49.8	
23.	e(Sg)	A 14 35 07.5	Explosion?
	LmH	A 35 20	
23.	ei(Sg)	A 14 38 30	Explosion?
	e	A 38 39	
	LmH	A 38 45	
23.	e	A 14 48 26	
	e(Sg)	A 48 29	
	e	A 48 30.5	
24.	e	A 00 21 55	
	e	A 22 03.5	
24.	-eiPKP	A 06 01 02.5	<u>Fiji Islands</u> 16.39°S 177.95°W
	i(PKHKP)	A 01 04.0	H = 05 42 14.0 h = 428 km MAG=5.4
	epPKP	A 02 48	D = 145.0° Az = 349.4° (USCGS); h = 440 km PKPV:0.8s 23.9nm (PKHKP)V:1.3s 116nm
24.	iPg	A 07 59 27	Explosion
	eiSg	A 59 40.5	D = ca. 1.0°
24.	e(P)	A 14 33 46	(P)V:1.1s 12.0nm
24.	iPg	A 15 05 20.5	Explosion
	iSg	A 05 36.0	D = ca. 1.3°
24.	LmH	C 20 16	LmH:17s $0.2\mu\text{m}$
24.	ePKP	A 22 25 10	<u>Tonga Islands</u> (UPP)
25.	e	A 11 54 57.5	Explosion?
	e(Sg)	A 55 00.5	KHC gives: eiPg 53 36 eiSg 53 58 D = 1.6°

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Day	Phase	h m s	Remarks
25.	eSg	A 12 03 04.5	Explosion?
	e	A 03 30.5	
25.	ePKP	A 13 18 27	<u>Loyalty Islands</u> 22.64°S 170.68°E H = 12 58 48.1 h = 64 km MAG=4.8 D = 147.6° Az = 334.9° (USCGS) PKPV:1.2s 12.8nm
26.	+iP	B 00 20 40	<u>Ryukyu Islands</u> 28.62°N 129.99°E
	eS	C 31 02	H = 00 08 09.8 h = normal MAG=5.7
	eSS	C 36.2	D = 84.2° Az = 325.7° (USCGS)
	LmV	B 01 02.6	PV(B):5s $0.9\mu\text{m}$ PV(A):1.6s 90.9nm
	LmH	B 02.7	LmH:14.5s $8.2\mu\text{m}$ LmV:15.5s $10.8\mu\text{m}$ MPV(A)=5.7 MPV(B)=6.2 MLH=6.2 MLV=6.4
26.	eP	A 03 07 51	<u>Java</u> 8.09°S 112.94°E
	LmH	C 50	H = 02 53 57.8 h = 80 km MAG=5.7 D = 103.4° Az = 320.1° (USCGS) PV:0.8s 9.4nm MPV=6.3
26.	eP	A 03 27 59.5	<u>Greece - Albania Border Region</u>
	e	A 28 06	39.42°N 20.44°E
	eLg1	A 31 36	H = 03 24 56.7 h = 44 km MAG=4.6
	eLg2	A 32 03	D = 12.8° Az = 333.9° (USCGS)
	eRg	A 32 33.5	LmH:9.0s $0.7\mu\text{m}$ LmV:11s $0.7\mu\text{m}$
	LmV	B 34.2	MLH=4.1
	LmH	B 34.3	e 31 53 e 32 30.5
26.	eP1	A 08 22 31.5	<u>Kodiak Islands</u> 56.63°N 152.18°W
	eP2	A 22 33	H = 08 11 06.3 h = 28 km MAG=4.9
	ipP	A 22 39.5	D = 72.3° Az = 10.8° (USCGS); h = 30 km
	eX	A 23 14	P2V:1.0s 52.2nm
	eS	C 31 58	LmH:18s $0.7\mu\text{m}$ LmV:16s $0.8\mu\text{m}$
	eSS	C 36.8	MPV=5.6 MLH=5.0 MLV=5.1
	LmV	B 09 01.9	

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Day	Phase	h m s	Remarks
26.	LmH C	11 58.8	<u>Halmahera</u> 1.93°S 127.76°E
	LmV C	12 10.7	H = 10 53 21.9 h = 8 km MAG=5.5 (USCGS) D = 107.8° LmH:22s 0.8/um LmV:18s 0.6/um MLH=5.3 MLV=5.2
26.	ePKP A	12 15 34	<u>Loyalty Islands</u> 22.89°S 171.41°E
	e A	15 47	H = 11 55 53.3 h = 58 km MAG=4.7 D = 148.1° Az = 335.4° (USCGS) PKPV:1.2s 20.4nm
26.	e(P) A	15 02 11	
27.	eP A	04 37 56.5	<u>Southeastern Alaska</u> 60.31°N 140.80°W
	e A	38 03	H = 04 27 02.4 h = 16 km MAG=4.6
	eiPcP A	38 25	D = 67.2° Az = 18.7° (USCGS)
	e A	40 40	PV:1.2s 25.5nm MPV=5.3
27.	eP A	05 21 02	<u>Colorado</u> 39.95°N 104.71°W
	LmH B	06 17	H = 05 09 22.7 h = 5 km MAG=5.2
	LmV B	17	D = 74.0° Az = 36.4° (USCGS) PV:1.0s 7.1nm LmH:20s 0.5/um LmV:20s 0.8/um MPV=4.8 MLH=4.8 MLV=5.0
27.	e(PKHKP) A	08 38 32	<u>Tonga Islands</u> 21.34°S 174.27°W
	e A	38 34.5	H = 08 18 42.4 h = normal MAG=5.4
	e A	38 42	D = 150.4° Az = 352.4° (USCGS)
	LmH B	09 46	(PKHKP)V:2.3s 129nm
	LmV B	53.3	LmH:20s 0.4/um LmV:18s 0.4/um MLH=5.1 MLV=5.2
27.	ePKP A	11 27 52	<u>Loyalty Islands</u> 22.75°S 170.80°E
	e A	27 56.5	H = 11 08 08.4 h = normal MAG=4.6 D = 147.8° Az = 334.9° (USCGS) PKPV:1.2s 12.8nm
27.	ei(P) A	11 57 47.5	

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Day	Phase	h m s	Remarks
27.	eP A	13 13 07	<u>Eastern Gulf of Aden</u> 14.10°N 52.01°E
	ePP A	15 03.5	H = 13 04 16.0 h = normal MAG=5.1 D = 48.9° Az = 326.8° (USCGS) PV:1.8s 35.7nm PPV:1.6s 22.7nm MPV=5.2 MPPV=4.8
27.	eiPg A	14 09 43	Explosion
	eiSg A	09 58.5	D = ca. 1.2°
27.	e(P) A	18 14 18	(P)V:1.1s 9.6nm
27.	e(Sg) A	21 47 20	Near earthquake?
	e A	47 37	
27.	LmH B	21 53.4	<u>Mid-Indian Rise</u> 12.69°S 66.41°E
			H = 21 03 20.4 h = normal MAG=4.8 (USCGS) D = 79.2° LmH:16s 0.6/um MLH=5.1
27.	eP A	21 58 34	<u>Ryukyu Islands</u> 28.54°N 129.58°E
	LmH C	22 40	H = 21 46 02.9 h = 17 km MAG=5.0 D = 84.0° Az = 325.6° (USCGS) PV:(1.5s) 23.4nm MPV=5.1
28.	eP A	02 33(43)	<u>Chagos Archipelago Region</u> 6.07°S 71.40°E
			H = 02 21 55.8 h = normal MAG=5.1 (USCGS) D = 75.7°
28.	+iP A	02 48 59.5	<u>Kyushu/Japan</u> 32.09°N 130.76°E
	ePcP A	49 07	H = 02 36 54.1 h = 125 km MAG=5.6
	eX A	49 20	D = 81.7° Az = 325.8° (USCGS); h = 132 km
	eipP A	49 32	PV:2.0s 170nm XV:1.6s 37.8nm
	e(pPP) A	52 39	pPV:1.4s 90.5nm (pPP)V:2.3s 115nm
	e(sPP) A	52 54	(sPP)V:1.9s 86.6nm
	eS C	58.9	LmH:15s 1.4/um
	esS C	59 50	MPV=5.5 MLH=5.5
	eSS C	03 04.2	i 49 36 ei 05 15 e 08 32

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Day	Phase	h m s	Remarks
cont.			
28.	e(sSS) C	03 05.1	If we interpret X as pP and pP as sP, then the focal depth would be $h = 85$ km, but the interpretation given above seems to be more likely.
	eSSSS C	10.3	
	e(sSSSS) C	11 08	
	LmH B	29.6	
28.	e A	03 18 30	Near earthquake?
	e A	18 37	
	e A	18 40	
28.	iPg A	04 30 38.5	Explosion
	ei A	30 48.5	$D = \text{ca. } 1.1^\circ$
	iSg A	30 52.5	PgV:0.4s 14.9nm
	LmH A	31 19.5	
28.	e(Sg) A	12 50 02.5	Explosion? (Sg)V:0.5s 12.0nm
28.	ei(P) A	15 52 35	
28.	LmH B	19 01.3	<u>Northeastern China (USCGS)</u>
28.	eP A	20 31 03	<u>Kodiak Islands</u> $56.61^\circ\text{N } 152.09^\circ\text{W}$
	e A	31 10	$H = 20 19 36.8$ $h = 14$ km $\text{MAG}=4.5$
	e A	31 19.5	$D = 72.3^\circ$ $\text{Az} = 10.8^\circ$ (USCGS) PV:1.3s 16.7nm MPV=5.0
29.	eP A	01 34 21	<u>Leeward Islands</u> $18.41^\circ\text{N } 62.41^\circ\text{W}$
			$H = 01 23 34.5$ $h = 58$ km $\text{MAG}=5.1$
			$D = 65.9^\circ$ $\text{Az} = 42.1^\circ$ (USCGS)
29.	iPg A	13 06 05.0	Explosion
	iSg A	06 18.9	$D = \text{ca. } 1.0^\circ$
29.	iPg A	13 13 26.0	Explosion
	i A	13 39.8	$D = \text{ca. } 1.0^\circ$
	iSg A	13 40.3	KHC gives: ePg 13 45 eiSg 14 12.2 $D = 2.0$

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Day	Phase	h m s	Remarks
29.	ePKHKP A	13 43 41	<u>South of Fiji Islands</u> $23.49^\circ\text{S } 179.82^\circ\text{W}$
			$H = 13 24 47.0$ $h = 528$ km $\text{MAG}=4.8$
			$D = 151.5^\circ$ $\text{Az} = 344.7^\circ$ (USCGS)
29.	e A	15 20 15	
29.	ePS C	15 31.1	<u>Bouvet Island Region</u> $53.62^\circ\text{S } 6.10^\circ\text{E}$
	ePPS C	32.1	$H = 15 03 38.0$ $h = \text{normal}$ $\text{MAG}=5.4$ (USCGS)
	eSS C	36.8	$D = 103.9^\circ$
	LmH C	54	LmH:50s 1.1 μm MLH=5.0
29.	ei(Pg) A	23 43 49	Explosion
	e(Sg) A	44 06.5	($D = \text{ca. } 1.4^\circ$)
30.	iPL C	07 26 28	<u>Albania - Yugoslavia Border Region</u>
	+eiP1 A	26 30	$41.47^\circ\text{N } 20.54^\circ\text{E}$
	iP2 A	26 31.4	$H = 07 23 51.5$ $h = 29$ km $\text{MAG}=6.0$
	iP3 A	26 33.5	$D = 11.1^\circ$ $\text{Az} = 329.0^\circ$ (USCGS)
	iS B	28 38	P2V:1.2s 97.0nm P3V:1.4s 350nm
	iSS B	28 56	PV(B):12.5s 10.5 μm
	LmH B	30.3	LmH:16s 760 μm LmV:16s 417 μm
	LmV B	31.3	MLH=6.7
			Multiple P with successive increasing amplitude in our short-period records. PL waves have periods of approximately 40 sec.
30.	eiP A	07 45 31.5	<u>Albania - Yugoslavia Border Region</u>
	ei A	45 36	$41.34^\circ\text{N } 20.54^\circ\text{E}$
	ei A	45 40	$H = 07 42 52.7$ $h = \text{normal}$ $\text{MAG}=4.8$
	ei A	45 45	$D = 11.2^\circ$ $\text{Az} = 329.4^\circ$ (USCGS)
30.	e A	07 56 48.5	<u>Probably Albania - Yugoslavia Border Region</u>
30.	e A	08 06.5	
30.	eP A	08 14 14	<u>Albania - Yugoslavia Border Region</u>
			$H = 08 11 33$ (UPP)

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Day	Phase	h m s	Remarks
30.	eP A	09 23 36	<u>Albania - Yugoslavia Border Region</u>
30.	e A	09 57 40	
	e A	58 02	
30.	e A	10 01 17.5	
30.	e(P) A	11 25 03	
	e A	25 11	
	e A	25 18	
	e A	25 54	
30.	e(S) C	11 28 32	LmH:44s 5.4 μ m LmV:16s 2.3 μ m
	e(SS) C	33 06	
	eL C	39 10	
	LmH C	41.3	
	LmV B	51.6	
30.	e(P) A	12 00 21.5	<u>Probably Albania - Yugoslavia Border Region</u>
30.	e(P) A	12 03 43	(P)V:1.4s 15.3nm
30.	eSg A	13 30 39	Explosion/CSSR 49.19°N 13.86°E Yield: 10.1 t (PRU) D = 2.0°
30.	ePKIKP A	16 06 14	<u>Fiji Islands</u> 17.94°S 178.26°W
	-iPKHKP A	06 16.8	H = 15 47 44.2 h = 629 km MAG=4.7
	ei A	06 18.5	D = 146.4° Az = 348.6° (USCGS)
	e A	06 30	PKHKPV:1.1s 48.1nm
	e A	07 48	
	e A	08 59	

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Day	Phase	h m s	Remarks
1.	ePg A	07 55 48.5	Explosion/CSSR
	eSg A	56 08	D = ca. 1.4°
	LmH A	56 25.5	KHC gives: D = 100 km
1.	e(P) A	09 18 15	<u>Albania - Yugoslavia</u> 40.5°N 19.9°E
	e A	18(20)	H = 09 15 31 (ATH) D = 11.7°
1.	e(P) A	09 20 40	Traces; Probably near earthquake
	e A	21 28	
	e A	21 48	
1.	iPg A	13 01 39.5	Explosion/GDR 51.29°N 12.73°E
	iSg A	01 53.5	D = 0.9°
1.	+eiP A	14 08 31.5	<u>Kurile Islands</u> 49.47°N 154.38°E
	+iP B	08 32.5	H = 13 57 02.4 h = 136 km MAG=5.9
	epP B	09 10	D = 75.3° Az = 336.5° (USCGS); h = 160 km
	iX A	09 47	PV(A):1.6s 1020nm PV(B):6.5s 5.6 μ m
	ePP B	11 22	pPV(A):1.9s 218nm XV:1.5s 131nm
	eY B	12.1	SH:10s 4.3 μ m
	iPPP B	13 11	LmH:15.5s 4.1 μ m LmV:16s 3.3 μ m
	eiZ B	15 00	MPV(A)=6.4 MPV(B)=6.5 MSH=6.3
	iS B	18 00	
	eSP B	18 30	
	e(SPP) B	19(00)	
	i B	19 19	
	eSS B	23.1	
	i(Sa) C	28.0	
	LmV B	29.3	
	LmH B	38.0	
1.	eP A	17 02 49	<u>North Atlantic Ridge</u> 60.2°N 29.6°W
	LmH C	13.5	H = 16 57 25.2 h = normal MAG=4.5 (USCGS) D = 25.0°
1.	ePKP A	17 11 51	<u>Fiji Islands</u> 17.58°S 178.54°W
			H = 16 53 08.8 h = 504 km MAG=4.2 D = 146.0° Az = 348.4° (USCGS)

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Day	Phase	h m s	Remarks
1.	eP	A 18 33 50.5	<u>Macedonia</u> 41.2°N 20.2°E
	e	A 35 41	H = 18 31 04 (BCIS)
	e	A 36 18	D = 11.2°
1.	eP	A 20 10 33	<u>Albania - Yugoslavia</u> 41.24°N 20.12°E
	e	A 12 45	H = 20 07 50.9 h = 33 km MAG=4.7
			D = 11.1° Az = 330.7° (USCGS)
2.	eP	A 00 26 57	<u>Albania - Yugoslavia</u> 41.34°N 20.57°E
	e	A 27 15	H = 00 24 15.7 h = 29 km MAG=5.1
	LmH	C 30.5	D = 11.2° Az = 329.3° (USCGS)
			LmH:16s 1.1/um
			MLH=3.8
2.	e(P)	A 00 44 16	<u>Gulf of California</u> 24.13°N 108.63°W
	i	A 44 21.5	H = 00 31 18.9 h = normal MAG=5.1
	LmH	C 01 25.3	D = 88.8° Az = 33.4° (USCGS)
	LmV	B 25.4	LmH:20s 1.3/um LmV:16s 1.5/um
			MLH=5.4 MLV=5.5
			The first motion of P must be about 5 s earlier.
2.	e(P)	A 09 29 57	<u>Albania - Yugoslavia</u> 41.37°N 20.32°E
	e	A 30 15.5	H = 09 27 09.9 h = 33 km MAG=4.5
	e	A 31 27.5	D = 11.1° Az = 329.9° (USCGS)
	e(S)	A 32 06.5	The first motion of P must be about 8 s earlier.
	eLg2(3.28)A	33 24	
	eRg(3.06)A	33 50	
2.	e(Sg)	A 09 45 19	<u>Explosion/CSSR</u>
	e	A 45 21	Yield: 8.1 t (PRU)
	e	A 45 22.5	KHC gives: eiPg 44 35.5 eiSg 45 00
			D = 200 km
2.	iP1	A 12 47 22.0	<u>Albania - Yugoslavia</u> 41.33°N 20.33°E
	eP2	A 47 24.5	H = 12 44 42.7 h = 17 km MAG=5.4
	iX	A 47 31.5	D = 11.1° Az = 330.0° (USCGS)
	eS	B 49 31	P1V:1.1s 21.6nm P2V:0.9s 47.2nm
	eL1(3.74)B	50 12	XV:1.3s 77.8nm
	iLg2(3.32)B	50 54	LmH:9s 14.0/um LmH:11s 11.1/um

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Day	Phase	h m s	Remarks
cont			
2.	LmH	B 12 51.4	MLH=5.2
	LmV	B 52.3	i 47 27.5 e 47 36.5 e 49 30 e 50 (00)
			Multiple P.
2.	eP	A 14 20 44.5	<u>Albania - Yugoslavia</u> 41.36°N 20.09°E
	LmH	B 24.5	H = 14 18 04.5 h = normal MAG=4.4
			D = 11.0° Az = 330.5° (USCGS)
2.	eiP	A 14 21 48	<u>Albania - Yugoslavia</u>
	e	A 23 15.5	H = 14 19 07 (UPP)
	e(S)	A 23 53.5	
	ei	B 24.2	
	LmH	B 25.5	
2.	e(P)	A 14 26 43.5	
2.	e(P)	A 16 41 05.5	
2.	eP	A 20 17 02	<u>Northeastern China</u> 37.77°N 115.21°E
	ei	A 17 06.5	H = 20 05 52.4 h = 13 km MAG=5.2
	LmH	B 45.5	D = 69.4° Az = 318.6° (USCGS)
	LmV	B 50.0	LmH:15.5s 6.0/um LmV:13s 3.1/um
			MLH=5.9 MLV=5.8
3.	e(P)	A 00 06 20.5	
3.	LmV	B 00 17.2	
3.	e(P)	A 00 25 47.5	
3.	LmH	C 00 36.5	
	LmV	B 36.5	
3.	e(P)	A 11 15(11.5)	Traces
	e	A 15 15	
	e	A 15 20.5	
3.	e	A 18 01 37	

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Day	Phase	h m s	Remarks
3.	e(P) e e	A 18 02 14 A 02 44 A 04 49	Probably Albania - Yugoslavia
3.	ePx iPg e(Sn) iSn eiLi e(Sg) eiLg2	A 19 51 47 A 52 25.2 A 53 11.5 A 53 13.5 A 53 48 A 54 16.5 A 54 21.5	Central Italy 42.25°N 13.62°E H = 19 49 38.5 h = 18 km MAG=4.6 D = 8.5° Az = 351.4° (USCGS) e 51 50.5 ei 54 35.5
3.	ePn ePx ePg e(Sn) iSn eiLg2 LmH	A 21 32 00 A 32 05 A 32 43 A 33 29.5 A 33 31.0 A 34 42 C 35	Central Italy 42.45°N 13.20°E H = 21 30 00.3 h = normal MAG=4.6 D = 8.3° Az = 353.0° (USCGS) LmH:18s 2.0/um MLH=3.8 e 33 25 e 34 08
3.	ePn e(Pb) ei(Sn) i(Sx) i(Sb) i(Sg)	A 22 12(00) A 12 13 A 12 53 A 13 02 A 13 10.0 A 13 16.0	Carpathians/ČSSR 48.7°N 17.5°E H = 22 10 54 (BCIS) D = 4.3° e 12 06 e 12 15 ei 13 11
4.	eiSg	A 03 01 09	Switzerland 47.0°N 7.8°E H = 02 58 46 (BCIS) D = 4.4°
4.	LmH	C 08 11.2	
4.	e(Sg) e	A 08 56 57.5 A 56 59	Little Carpathians (KHC)
4.	e(P) e LmH	A 09 00 55.5 A 01 00 C 36.6	Off Coast of Oregon 43.72°N 127.37°W H = 08 48 45.2 h = normal MAG=4.6 D = 79.5° Az = 25.1° (USCGS) The first motion of P must be about 6 s earlier.

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Day	Phase	h m s	Remarks
4.	e e e	C 11 26.5 C 36(14) C 39 38	
4.	eP e	A 20 29 38 A 29 43	Ryukyu Islands 27.51°N 128.92°E H = 20 17 05.7 h = normal MAG=4.8 D = 84.6° Az = 325.4° (USCGS)
4.	eP e epP	A 22 30 36 A 30 42 A 30 49	Andreanof Islands/Aleutians 51.62°N 173.50°W H = 22 18 41.0 h = 50 km MAG=4.7 D = 78.0° Az = 356.7° (USCGS); h = 50 km PV:1.2s 25.0nm MPV=5.2
5.	eiP1 iP2	A 05 24 03 A 24 05.7	Dodecanese Islands 36.48°N 26.69°E H = 05 20 02.9 h = 138 km MAG=4.6 D = 17.9° Az = 327.0° (USCGS) P2V:1.3s 111nm Multiple P. The amplitude of P2 is much bigger than that of P1.
5.	iP e e	A 09 17 09.5 A 17 18.5 A 17 23	Andreanof Islands/Aleutian 51.64°N 173.45°W H = 09 05 13.1 h = 36 km MAG=5.3 D = 78.0° Az = 356.7° (USCGS) PV:1.0s 40.2nm MPV=5.5
5.	iPg eiSg	A 13 05 13.3 A 05 26	Explosion D = ca. 1.0°
5.	eiPg iSg LmH	A 13 36 42.5 A 36 51.5 A 37 11.5	Probably explosion D = ca. 0.7°
5.	ePKHKP	A 17 47 09	Fiji Islands 20.82°S 178.82°W H = 17 28 31.5 h = 655 km MAG=4.5 D = 149.1° Az = 347.0° (USCGS) PKHKPV:1.1s 12.0nm

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Day	Phase	h m s	Remarks
5.	LmH	C 19 23.5	<u>Gulf of California</u> (USCGS)
6.	epP	A 03 06 02	<u>Near Coast of Nicaragua</u> 12.46°N 87.24°W
	LmH	C 38.4	H = 02 53 06.9 h = 87 km MAG=5.3 D = 86.0° Az = 39.1° (USCGS)
6.	+ei(P)	A 03 23 50.5	
6.	ePKIKP	A 05 22 22.5	<u>Fiji Islands</u> 21.26°S 178.79°W
	-iPKHKP	A 22 27.8	H = 05 03 40.8 h = 559 km MAG=5.1
	iPKP2	A 22 35.5	D = 149.6° Az = 346.9° (USCGS) PKIKPV:2.0s 66.2nm PKHKPV:1.5s 168nm PKP2V:1.5s 67.1nm
6.	eSg	A 12 00 34.5	Probably explosion SgV:1.2s 20.4nm
6.	eSg	A 14 59 14.5	Explosion
6.	eP	A 15 08 41.5	<u>Off East Coast of Honshu/Japan</u> 40.93°N 142.99°E H = 14 56 37.1 h = 31 km MAG=4.6 D = 79.4° Az = 330.9° (USCGS) PV:1.1s 9.6nm MPV=4.8
6.	LmH	C 22 55	<u>Carlsberg Ridge</u> (USCGS)
7.	i	A 04 14 17.3	
7.	eP	A 07 36 19.5	<u>Fox Islands/Aleutian</u> 52.90°N 166.72°W
	epP	A 36 27.5	H = 07 24 28.5 h = 31 km MAG=4.7 D = 76.8° Az = 1.1° (USCGS); h = 30 km PV:1.3s 22.2nm MPV=5.1
7.	+iPKP	A 10 00 41.0	<u>Tonga Islands</u> 16.69°S 174.13°W
	e	A 01 04	H = 09 41 14.1 h = 120 km MAG=5.0
	epPKP	A 01 13	D = 145.8° Az = 353.5° (USCGS); h = 116 km PKPV:1.0s 47.3nm

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Day	Phase	h m s	Remarks
7.	ePKIKP	A 10 08 47.5	<u>New Hebrides Islands</u> 14.62°S 167.26°E H = 09 49 37.0 h = 151 km MAG=5.3 D = 139.0° Az = 336.4° (USCGS)
7.	e(P)	A 10 13 33.5	
7.	iPg	A 08 10 45.0	Explosion
	iSg	A 11 04.0	D = ca. 1.4°
7.	e(Sg)	A 14 01 51.5	Explosion/ <u>ČSSR</u> 49.50°N 14.93°E Yield: 16.2 t (PRU) D = 2.4°
	e	A 01 55	
7.	e(Sg)	A 15 40 16	Probably explosion
	i	A 40 18	KHC gives: eiPg 39 45.4 eiSg 40 04.4 D = 1.2°
7.	eP	A 18 06 14	<u>Albania - Yugoslavia</u> 41.28°N 20.21°E
	e	A 06 24	H = 18 03 35.5 h = normal MAG=4.5
	e	A 06 39	D = 11.1° Az = 330.4° (USCGS)
	e(SS)	A 08 46	e 09 23.5 e 09 51.5 e 10 09
8.	e(P)	A 01 42 19	
8.	LmH	C 04 40	<u>Bismark Sea</u> (USCGS)
8.	+iP	A 06 11 46	<u>Eastern Kazakh SSR</u> 49.84°N 78.22°E
	ePn.	A 13 20	H = 06 03 57.1 h = 0 km MAG=5.4 D = 41.3° Az = 297.7° (USCGS) PV:0.8s 78.2nm MPV=5.7 Underground explosion.
8.	iPg	A 09 58 39.2	Explosion/ <u>ČSSR</u>
	iSg	A 58 57.5	D = 1.4° KHC gives: eiPg 58 25 D = 36 km Yield: 11.9 t
8.	e(Sg)	A 16 01 51.5	Explosion

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Day	Phase	h m s	Remarks
9.	ePn	A 03 12 04	<u>Adriatic Sea</u> 42.01°N 16.54°E
	iPx	A 12 09.0	H = 03 09 52.2 h = normal MAG=4.5
	iSn	A 13 41.5	D = 9.3° Az = 340.2° (USCGS)
	iSx	A 13 50	PxV:0.9s 42.3nm
	ei(Lg1)	A 14 52.5	LmH:11s 1.7/um LmV:12s 2.2/um
	iSg	A 14 54.5	MLH=4.1
	LmH	B 16.0	e 12 05.5 i 13 51 e 14 39
	LmV	B 16.1	
9.	ePKIKP	A 05 47 18	<u>South of Fiji Islands</u> 22.23°S 179.40°W
	iPKHKP	A 47 24.5	H = 05 28 38.9 h = 588 km MAG=4.9
	ePKP2	A 47 26.5	D = 150.4° Az = 345.8° (USCGS)
	e	A 47 33.5	PKIKPV:1.5s 20.2nm PKHKPV:1.4s 104nm
	e	A 47 59	PKP2V:1.5s 67.1nm
9.	e	A 08 57 12	<u>Adriatic Sea</u> 45.4°N 14.6°E
	eSn	A 57 27.5	H = 08 55 00 (BCIS)
	e(Sb)	A 57 55.5	D = 5.6°
	eiSg	A 58 06.5	
ei	A 59 30		
9.	ePKIKP	A 11 10 03.5	<u>Santa Cruz Islands</u> 10.94°S 164.15°E
	eSS	C 30(20)	H = 10 50 46.6 h = normal MAG=5.5
	eSSS	C 35(20)	D = 134.4° Az = 335.7°(USCGS)
	LmH	C 12 11.8	LmH:22s 1.2/um MLH=5.5
9.	eP	A 22 23 00	<u>Unimak Islands</u> 53.78°N 163.25°W H = 22 11 12.9 h = 14 km MAG=4.3 D = 75.9° Az = 3.4° (USCGS)
10.	eP1	A 12 19 09.5	<u>Near Coast of Northern California</u>
	eP2	A 19 15	40.51°N 124.60°W
	eP3	A 19 18	H = 12 06 50.3 h = 5 km MAG=5.8
	ePP1	A 22 16	D = 81.5° Az = 26.5° (USCGS)
	ePP2	A 22 24.5	P3V:1.8s 92.0nm
	eS	C 29 22	LmH:17s 3.5/um LmV:19s 4.8/um
	iSP	B 30 12	MP3V=5.6 MLH=5.8 MLV=5.9
	eSPP	B 30 30	e 20 24 e 38 40
	eSS	C 34.5	Successive P-onsets with increasing amplitude.

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Day	Phase	h m s	Remarks
cont.			
10.	LmH	B 12 57.3	
	LmV	B 57.4	
10.	LmH	C 15 59.7	<u>Eastern Kazakh SSR</u> 46.32°N 81.91°E H = 15 34 53.0 h = 48 km MAG=4.8 (USCGS) D = 45.2° LmH:21s 0.6/um MLH=4.5
10.	eP	A 18 54 22	<u>Burma</u> 22.51°N 94.80°E
	epP	A 54(59)	H = 18 43 34.4 h = 158 km MAG=5.2 (USCGS)
	e	C 19 04.1	D = 68.7° h = 155 km
	eLQ	C 12.2	LmH:24s 0.4/um
	LmH	C 23	
10.	-eP	AB 23 01 22	<u>India</u> 17.66°N 73.93°E
	iX	B 03 50	H = 22 51 24.3 h = normal MAG=6.0
	eiPPP	B 05 07	D = 59.0° Az = 318.9° (USCGS)
	eiS	C 09 28	PV(A):1.8s 194nm PV(B):8s 1.6/um
	iS	B 09 40	LmH:17s 16.7/um LmV:13s 14.1/um
	eiScS	C 11 00	MPV(A)=5.9 MPV(B)=6.2 MLH=6.2 MLV=6.3
	iLQ	C 16 12	i 01 24 i 01 28.5 ei 11 06
	LmH	B 32	
LmV	B 35.3		
11.	eP	A 00 01 19	<u>India</u> 17.4°N 73.7°E H = 23 52 16.7 h = normal MAG=5.0 (USCGS) D = 59.2°
11.	iPx	A 02 37 23.1	<u>Switzerland</u> 46.7°N 9.9°E
	iP(b)	A 37 32	H = 02 36 16 (BCIS)
	iSn	A 38 05	D = 4.1°
	iS(b)	A 38 19	
	iSg	A 38 27	
LmH	A 38 37		
11.	e	A 10 47 10	Explosion?
	e	A 47 16.5	
	e	A 47 23	

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Day	Phase	h m s	Remarks
11.	eP	A 19 57 27.5	<u>Eastern Gulf of Aden</u> 13.69°N 51.59°E
	e(pP)	A 57 34.5	H = 19 48 43.3 h = normal MAG=5.2
	ePP	A 59 26	D = 49.0° Az = 327.2° (USCGS);
	LmH	C 20 15	(h = 30 km) e 57 48 e 58 08
11.	ePKHKP	A 20 00 41.5	<u>Tonga Islands</u> 20.64°S 174.29°W
	i	A 00 47.2	H = 19 40 53.3 h = normal MAG=5.3
	ePKP2	A 00 51	D = 149.7° Az = 352.5° (USCGS)
	LmH	C 21 05	PKHKPV:1.5s 47.0nm PKP2V:1.6s 37.9nm
11.	+iP	A 22 39 03.5	<u>Eastern Gulf of Aden</u> 13.62°N 51.60°E
	ePP	B 41 02	H = 22 30 18.3 h = normal MAG=5.6
	ePPP	C 41.9	D = 49.1° Az = 327.2° (USCGS)
	eS	B 46 05	PV:1.1s 33.7nm PPV:9s 0.7 μ m
	eSS	C 49 50	SH:20s 1.6 μ m
	iLR	C 54 25	LmH:16s 2.1 μ m LmV:16s 1.8 μ m
	LmH	B 23 01.5	MPV=5.3 MPPV=5.5 MSH=5.7 MLH=5.2
	LmV	B 04.6	MLV=5.2
			e 39 07 e 39 42.5 e 50 00
			S has a period of about 40 s in the registrations of type C.
11.	eP	A 23 14 16.5	<u>Jan Mayen</u> 71°N 8°W
			H = 23 09 26 (UPP) D = 22.2°
12.	i	A 04 15 43	Near earthquake?
	e(Sg)	A 16 03.5	
12.	iP	A 06 28 37	<u>India</u> 17.59°N 73.91°E
			H = 06 18 37.9 h = 29 km MAG=5.4 D = 59.1° Az = 318.9° (USCGS)
12.	ePKHKP	A 08 25 59	<u>Loyalty Islands</u> 22.67°S 171.06°E
	ePKP2	A 26 03.5	H = 08 06 16.7 h = 39 km MAG=4.9
	eX	A 27 07	D = 147.8° Az = 335.2° (USCGS)
	eSSS	C 54 20	PKP2V:1.1s 24.0nm XV:1.7s 48.3nm
	LmH	C 09 20.5	LmH:33s 1.1 μ m LmV:18s 0.8 μ m
	LmV	B 35	MLH=5.4 MLV=5.5 e 26 48 e 49 (00)

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Day	Phase	h m s	Remarks
12.	LmH	C 11 05.5	<u>Taiwan</u> (USCGS)
	eiSg	A 11 30 56	Explosion/ <u>USSR</u> KHC gives: D = 34 km
12.	e	A 12 24 25.5	
12.	LmH	C 15 17.5	
12.	eP	A 15 58 55	<u>India</u> 17.43°N 73.92°E
			H = 15 48 55.5 h = 27 km MAG=5.0
			D = 59.2° Az = 319.0° (USCGS)
			PV:2.0s 53.0nm MPV=5.3
12.	i(Sg)	A 18 48 34	Explosion?
			KHC gives: ePg 48 02 eiSg 48 18 D = 1.2°
12.	e(P)	A 20 09 06.5	Traces; near earthquake?
	e	A 09 23	
	e	A 10 08	
	e	A 10 27.5	
13.	LmH	B 05 47.6	LmH:16s 0.7 μ m LmV:16s 0.8 μ m
	LmV	B 47.6	
13.	eiPg	A 10 44 11	<u>Slovenia</u> 45.9°N 14.8°E
	eSn	A 44 42.5	H = 10 42 28 (BCIS)
	e	A 44 47	D = 5.2°
	eSg	A 45 13	
13.	+iP	A 10 50 01.0	<u>Kurile Islands</u> 47.63°N 152.64°E
	+iPoP	A 50 12.7	H = 10 38 23.4 h = 124 km MAG=5.5
	eiX	A 50 18	D = 76.5° Az = 335.7° (USCGS);
	e	A 50 38	(h = 136 km)
	e(sP)	B 50(50)	PV:1.0s 387nm PoPV:1.0s 104nm
	iY	A 50 56.8	XV:1.1s 96.0nm YV:1.6s 100nm
	e	C 11 09.2	MPV=6.1
	LmH	B 30	

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Day	Phase	h m s	Remarks
13.	eP	A 11 09 51	<u>Kurile Islands</u> 49.38°N 154.51°E H = 10 58 21.6 h = 138 km MAG=5.1 D = 75.4° Az = 336.6° (USCGS) PV:1.5s 60.4nm MPV=5.1
13.	e	A 12 58 00	Explosion/GDR
	iSg	A 58 05.3	
13.	eP	A 17 59 00	<u>Sea of Okhotsk</u> 47.09°N 145.72°E H = 17 47 51.2 h = 312 km MAG=4.8 D = 74.9° Az = 331.7° (USCGS) PV:1.8s 46.8nm MPV=4.9
13.	+iPKP	A 19 26 42.1	<u>New Hebrides Islands</u> 19.12°S 168.68°E
	epPKP	A 26 55	H = 19 07 14.4 h = 51 km MAG=5.7
	ePSKS	C 40 10	D = 143.7° Az = 335.2° (USCGS); h = 46 km
	ePPS	C 42 40	PKPV:1.2s 143nm pPKPV:1.6s 98.4nm
	e	C 43.8	LmH:22s 1.0/um
	eSS	C 48.4	MLH=5.3
	e(PSS)	C 49(10)	
	LmH	B 34.5	
13.	ePKP	A 21 53 50	<u>Fiji Islands</u> 17.72°S 178.11°W H = 21 35 11.4 h = 562 km MAG=4.6 D = 146.2° Az = 348.8° (USCGS) PKPV:1.1s 14.4nm
13.	ePKIKP	A 23 29 18	<u>Loyalty Islands</u> 22.81°S 171.45°E
	ePKHKP	A 29 22	H = 23 09 37.2 h = 43 km MAG=4.3 D = 148.1° Az = 335.5° (USCGS)
14.	eP1	A 02 29 20	<u>Arabian Sea</u> 14.30°N 53.65°E
	eP2	A 29 23.5	H = 02 20 27.9 h = normal MAG=4.9
	ePP	B 31 15	D = 49.6° Az = 326.0° (USCGS)
	eIS	B 36 26	P2V:2.0s 79.5nm SH:8.5s 0.8/um
	eSS	C 40 18	LmH:16s 0.5/um LmV:17s 0.7/um
	LmH	B 56	MP2V=5.5 MSH=5.8 MLH=4.6 MLV=4.8
	LmV	B 58	e 29 42 e 31 29

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Day	Phase	h m s	Remarks
14.	eP	A 02 59 20	<u>Crete</u> 34.45°N 26.24°E
	e	A 59 24	H = 02 54 47.6 h = 7 km MAG=4.5
	e	A 59 31.5	D = 19.4° Az = 331.0° (USCGS)
	LmH	B 03 08.5	LmH:13s 0.8/um LmV:16s 1.0/um
	LmV	B 08.5	MLH=4.2 MLV=4.4
			Successively increasing amplitudes of P.
14.	eP	A 08 39 38.5	<u>Crete</u> 34.88°N 24.34°E
	eS	B 42 52	H = 08 35 28.7 h = 78 km MAG=4.6
	e	B 46.0	D = 18.3° Az = 333.4° (USCGS)
	LmH	B 47.6	LmH:11s 0.3/um LmV:11s 0.6/um
	LmV	B 47.9	MLH=3.9 MLV=4.2
14.	eiSg	A 13 00 43	Probably explosion KHC gives: eiPg 00 23.5 eiSg 00 42 D = 1.4°
14.	eP	A 18 36 38	<u>Near East Coast of Kamchatka</u>
	epP	A 36 43.5	54.57°N 160.43°E
	ePcP	A 36 56	H = 18 25 16.6 h = normal MAG=5.5
	e	A 37 20	D = 72.0° Az = 339.7° (USCGS); h = 21 km
	LmH	C 19 02	PV:0.9s 9.4nm pPV:1.1s 21.6nm
	LmV	C 02	LmH:45s 0.9/um LmV:45s 0.6/um MPV=4.9 MLH=4.7 MLV=4.6
14.	eP	A 22 10 23	<u>Chagos Archipelago</u> 4.00°S 68.38°E H = 21 58 54.5 h = normal MAG=4.9 D = 72.9° Az = 326.1° (USCGS)
15.	ei	A 10 31 02	Explosion?
	e(Sg)	A 31 25	KHC gives: eiPg 30 19.5 eiSg 30 34 D = 1.1° (Sg)V:1.8s 40.8nm
15.	ePKIKP	A 20 07 03	<u>Kermadec Islands Region</u> 29.08°S 177.57°W
	ePKHKP	A 07(16)	H = 19 47 13.5 h = 61 km MAG=5.3 (USCGS)
	eiPKP2	A 07 34.5	D = 157.3° PKP2V:1.1s 19.2nm

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Day	Phase	h m s	Remarks
16.	e(Pg) e eSg	A 10 37 18 A 37 23 A 37 43	Explosion/ <u>CSSR</u> 51.00°N 14.41°E Yield: 26.5 t (PRU) D = 1.8°
16.	i(Pg) e(Sg)	A 12 02 36.8 A 02 52	Explosion? (D = ca. 1.1°)
16.	ePg	A 12 54 24.5	Explosion/ <u>GDR</u>
16.	ePKP2	A 13 33 48	<u>Kermadec Islands</u> 31.67°S 179.79°E H = 13 14 00.0 h = 403 km MAG=4.1 (USCGS) D = 159.2° PKP2V:1.3s 13.9nm
16.	eSg	A 13 49 21	Probably explosion.
16.	eP e eS ePS e(Sa) LmH LmV	A 21 05 37 A 06 28 C 15 00 C 15 30 C 24.0 B 43.5 B 43.6	<u>Near East Coast of Kamchatka</u> 51.22°N 157.66°E H = 20 53 58.3 h = 24 km MAG=5.5 D = 74.5° Az = 338.3° (USCGS) PV:1.8s 81.6nm LmH:16s 3.9 μ m LmV:16.5s 4.8 μ m MPV=5.6 MLH=5.8 MLV=5.9 i 05 54.5 ei 06 12
17.	eP1 iP2 i(pP) e(sP) ePP	A 00 33 19.5 A 33 20.7 A 33 49.5 A 34 03 A 35 06	<u>Afghanistan - USSR Border Region</u> 36.51°N 71.44°E H = 00 25 15.1 h = 82 km MAG=5.2 D = 44.4° Az = 308.1° (USCGS); (h = ca. 130 km) P2V:1.8s 122.5nm MP2V=5.7 If we interpret pP as sP, then the focal depth would be h = 88 km.
17.	ePKP	A 11 16 23.5	<u>Loyalty Islands</u> 20.47°S 168.92°E H = 10 56 48.2 h = 32 km D = 145.0° Az = 334.7° (USCGS) PKPV:1.6s 19.0nm

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Day	Phase	h m s	Remarks
17.	LmH LmV	C 17 04.5 C 04.5	<u>Samar/Philippine Islands</u> 11.58°N 125.92°E H = 16 03 26.9 h = 3 km MAG=5.3 (USCGS) D = 96.0° LmH:20s 0.5 μ m LmV:18s 0.6 μ m MLH=5.0 MLV=5.1
17.	ePKP e e	A 21 12 35 A 12 41 A 12 45.5	<u>New Hebrides</u> 20.74°S 169.00°E H = 20 53 01.0 h = normal MAG=4.2 D = 145.2° Az = 334.6° (USCGS) PKPV:1.6s 41.7nm
18.	ePKP e	A 06 44 02 A 44 03.5	<u>Loyalty Islands</u> 22.35°S 170.79°E H = 06 24 19.7 h = 34 km MAG=4.8 D = 147.4° Az = 335.2° (USCGS)
18.	eP LmH LmV	A 11 01 10 B 27.5 B 27.5	<u>Nepal</u> 29.15°N 81.92°E H = 10 51 34.8 h = 42 km MAG=5.2 D = 55.8° Az = 313.6° (USCGS) PV:1.1s 14.4nm LmV:18s 0.5 μ m MPV=5.0 MLV=4.7
18.	LmH	C 11 20.1	Probably to Mariana Islands (H = 10 21 54.7 (USCGS))
18.	LmH	C 11 28.5	Probably to Mariana Islands (H = 10 30 41.2 (USCGS))
18.	e(Sg)	A 12 01 53.5	Explosion?
18.	eSg LmH	A 12 02 56 A 03 07	Explosion?
18.	eP LmH LmV	A 14 18 41.5 B 49.7 B 51.2	<u>Eastern China</u> 36.15°N 111.67°E H = 14 07 39.5 h = normal MAG=4.9 (USCGS) D = 68.7° PV:1.1s 9.7nm LmH:14s 0.8 μ m LmV:15s 1.1 μ m MPV=4.9 MLH=5.1 MLV=5.3

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Day	Phase	h m s	Remarks
18.	LmH B	15 10.2	<u>South of Mariana Islands</u> 12.06°N 143.65°E
	LmV B	10.3	H = 14 04 19.5 h = 12 km MAG=5.5 D = 104.9° Az = 330.7° (USCGS) LmH:21s 1.4/um LmV:18s 1.4/um MLH=5.4 MLV=5.6
18.	eP A	17 37 02	<u>Central California</u> 37.04°N 121.77°W
	LmH B	18 12.3	H = 17 24 31.9 h = 11 km MAG=5.0 D = 83.5° Az = 27.8° (USCGS) PV:2.0s 33.0nm LmH:18.5s 1.0/um MPV=5.1 MLH=5.2
19.	+eP A	03 31 51	<u>Tadzhik SSR</u> 37.49°N 72.00°E H = 03 23 49.6 h = 89 km MAG=5.5 D = 44.1° Az = 307.4° (USCGS) PV:1.2s 28.1nm MPV=5.1
19.	ePn A	08 35 10	<u>Albania - Yugoslavia</u> 41.46°N 20.36°E
	e A	35 26	H = 08 32 30.9 h = 19 km MAG=4.8
	e A	36 26.5	D = 11.0° Az = 329.5° (USCGS)
	eS A	37 13	PnV:0.8s 16.5nm
	e(S) C	37 24	LmH:16s 2.9/um
	i(SS) A	37 30.8	MLH=4.3
	e A	37 46	e 35 16 e 35 18 e 37 28 e 37 41
	eLg1(3.43)A	38 34	e 38 25
20.	eSg A	04 33 14	<u>Switzerland</u> 46.9°N 9.8°E
	e A	33 17.5	H = 04 31 04 (BCIS) D = 3.9°
20.	eP A	05 57 30	<u>Kurile Islands</u> 43.23°N 146.25°E H = 05 45 30.1 h = normal MAG=4.7 D = 78.5° Az = 332.5° (USCGS) PV:2.2s 52.6nm MPV=5.3

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Day	Phase	h m s	Remarks
20.	iPg A	08 01 21.5	Explosion
	eISg A	01 38	D = ca. 1.2°
20.	+i(P) A	10 32 03.7	(P)V:0.8s 47.8nm
	e A	32 22	
	e A	33 34	
20.	eP1 A	11 46 05	<u>Andaman Islands</u> 11.81°N 93.03°E
	eP2 A	46 13	H = 11 34 25.9 h = 61 km MAG=5.4
	i(pP) A	46 23.0	D = 75.5° Az = 319.4° (USCGS);
	e(sP) A	46 29	(h = 70 km)
	ePP B	48(56)	P1V:1.6s 31.6nm P2V:1.3s 58.4nm
	e(SP) B	56 11	(pP)V:1.6s 110nm (sP)V:2.0s 185nm
	eSS C	12 01.1	LmH:27s 1.0/um
	eSSS C	04.4	MP1V=5.2 MP2V=5.6 MLH=5.0
	LmH C	22.8	e 47 11 e 48 47.5 e 04 47
			Multiple P.
20.	iSg A	12 57 27.5	Explosion/GDR
20.	ePKP A	17 26 57	<u>New Hebrides Islands</u> 15.13°S 167.44°E H = 17 07 49.1 h = 135 km MAG=5.1 D = 139.6° Az = 336.3° (USCGS)
20.	LmH C	23 26.5	
21.	+iPn A	00 12 13	<u>Yugoslavia</u> 42.15°N 20.70°E
	e A	12 19	H = 00 09 39.0 h = 19 km MAG=4.7
	e A	12 52	D = 10.6° Az = 326.7° (USCGS)
	eLg1 B	15 18	PnV:1.1s 14.4nm
	iLg2 B	15 35	LmH:12s 1.4/um LmV:10.5s 2.2/um
	LmH B	15.7	MLH=4.1
	LmV B	16.7	e 13 48 e 15 16.5 e 15 32 1 15 43 e 16 30
21.	e A	00 27 31.5	
21.	+eiP BC	02 39 12	<u>Near Coast of Northern Chile</u>
	eP A	39 15	21.85°S 70.01°W
	-iPP C	43 20	H = 02 25 21.6 h = normal MAG=6.3

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Day	Phase	h m s	Remarks
cont.			
21.	+iPP	B 02 43 23	D = 101.5° Az = 40.0° (USCGS)
	eiPP	A 43 24.5	PV(A):1.6s 49.2nm PV(B):10s 5.8 μ m
	iX	A 43 42.7	PH(B):9s 1.9 μ m PV(C):29s 11.8 μ m
	eiPPP	B 45 42	PH(C):32s 7.4 μ m XV:1.9s 587nm
	iSKS	B 49 57	PPV(A):2.7s 1143nm PPV(B):9s 11.1 μ m
	iSKKS	B 50 28	SH:11.5s 5.3 μ m
	iS	B 50 56	LmH:22s 186 μ m LmV:22s 218 μ m
	iPS	B 52 35	MPV(A)=5.9 MPV(B)=7.2 MPH(B)=7.0
	ePKKP	A 54 57	MPV(C)=7.0 MPH(C)=7.1 MPPV(A)=6.9
	eY	A 55 55	MPPV(B)=7.3 MSH=7.5 MLH=7.6 MLV=7.6
	eiSS	B 57 51	e 39 19 e 39 22 e 40 04 e 42 28
	LmH	B 03 20.6	e 43 45 e(SS) 57 42 i 03 (00)
	LmV	B 20.7	
21.	eP	A 11 49 33	<u>Northern Colombia</u> 6.98°N 72.12°W
	epP	A 49 39.5	H = 11 37 22.5 h = normal MAG=5.4
	LmH	C 12 23.6	D = 80.7° Az = 39.9° (USCGS); h = 24 km PV:1.4s 18.4nm pPV:1.5s 26.8nm LmH:20s 0.5 μ m MPV=5.0 MLH=4.9
21.	iPKHKP	A 12 01 06.5	<u>Fiji Islands</u> 21.08°S 179.23°W H = 11 42 25.3 h = 606 km MAG=4.5 D = 149.3° Az = 346.4° (USCGS) PKHKPV:0.8s 11.8nm
21.	e(Sg)	A 12 33 43	Probably explosion.
	e	A 33 48	
	e	A 33 56	
21.	iPg	A 13 14 41.0	Explosion/ <u>GDR</u>
	iSg	A 14 43.2	
21.	e	A 14 10 41.5	

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Day	Phase	h m s	Remarks
21.	eP	A 16 15 04.5	<u>Kurile Islands</u> 49.18°N 156.17°E
	LmH	C 45.0	H = 16 03 20.5 h = 44 km MAG=4.5 D = 76.0° Az = 337.6° (USCGS) PV:1.2s 20.4nm LmH:28s 0.8 μ m MPV=5.1 MLH=4.9
21.	iP	A 16 24 14.0	<u>Kurile Islands</u> 49.13°N 156.20°E
	epP	A 24 27	H = 16 12 30.7 h = 53 km MAG=4.8
	LmH	C 53.5	D = 76.1° Az = 337.7° (USCGS); h = 48 km PV:1.2s 35.7nm LmH:24s 0.9 μ m MPV=5.4 MLH=5.0
21.	eP	A 16 28 24	<u>Kurile Islands</u> 49.18°N 156.17°E
	epP	A 28 42	H = 16 16 41.0 h = 49 km MAG=4.5
	LmH	C 17 02.8	D = 76.0° Az = 337.6° (USCGS); h = 70 km PV:1.0s 23.7nm LmH:20s 0.7 μ m MPV=5.3 MLH=5.0
21.	ePKP2	A 18 06 29.5	<u>Kermadec Islands</u> 31.68°S 179.15°W
	eX	A 06 35	H = 17 45 54.4 h = 23 km MAG=5.1 (USCGS)
	eY	A 06 43	D = 159.5° XV:2.0s 66.2nm YV:1.7s 30.7nm
21.	eP1	A 23 54 54.5	<u>Andaman Islands</u> 11.83°N 93.14°E
	eP2	A 55 02.5	H = 23 43 11.4 h = 33 km MAG=5.0
	eiP3	A 55 11	D = 75.6° Az = 319.4° (USCGS)
	LmH	C 24 30	P2V:1.3s 11.1nm P3V:1.8s 51.0nm MP2V=4.8 MP3V=5.4 Multiple P with successively increasing amplitudes. If we interpret P2 as pP, then the focal depth would be h = 30 km.
22.	eP	A 07 24 51.5	<u>Albania - Yugoslavia</u> 40 74°N 21°E
	e	A 26 07	H = 07 22 03 (ATH)
	e	A 26 51.5	D = 11.9°
	e	A 27 33.5	

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Day	Phase	h m s	Remarks
cont			
22.	e	A 07 28 08	
	e(Lg1)	A 28 23	
22.	e(Sb)	A 10 49 30	<u>Switzerland</u> 46.8°N 9.8°E
	eSg	A 49 40	H = 10 47 29 (BCIS) D = 4.0°
22.	ePg	A 13 06 02	<u>Explosion/GFR</u> 11.15°E 47.63°N
	eSn	A 06 22	H = 13 05 00 Yield: 15 t
	eiSg	A 06 37.5	D = 3.0°
	i	A 06 40.0	
22.	iPKIKP	A 23 28 58.5	<u>Kermadec Islands</u> 29.9°S 177.4°W
	ePKHKP	A 29 10	H = 23 08 58.0 h = 22 km MAG=5.4 (USCGS)
	eiPKP2	A 29 28	D = 158.1°
	e	A 29 36	PKP2V:1.6s 64.4nm
	e	A 29 40.5	
23.	LmH	C 00 53.5	Probably to Kermadec Islands
	LmV	C 01 03.5	(H = 23 08 58.0)
23.	ePKP	A 01 16 28.5	<u>Tonga Islands</u> 16.79°S 173.29°W
			H = 00 56 53.4 h = 38 km MAG=4.3
			D = 146.0° Az = 354.4° (USCGS)
23.	ePKIKP	A 13 42 08	<u>New Britain</u> 5.23°S 151.84°E
	e	C 49.9	H = 13 23 15.0 h = 61 km MAG=5.5
	eSS	C 14 01.5	D = 123.9° Az = 330.6° (USCGS)
	LmV	B 37.2	PKIKPV:1.2s 12.8nm
	LmH	B 37.5	LmH:20s 1.2 μ m LmV:22s 1.8 μ m MLH=5.6 MLV=5.7
23.	eP	A 16 16 31.5	<u>Kurile Islands</u> 48.25°N 157.28°E
	epP	A 16 36	H = 16 04 37.9 h = 26 km MAG=5.1
			D = 77.2° Az = 338.4° (USCGS); h = 17 km
			PV:1.3s 19.5nm
			MPV=5.1

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Day	Phase	h m s	Remarks
24.	ePKIKP	A 02 43 53.5	<u>Fiji Islands</u> 21.03°S 177.98°W
	-iPKHKP	A 43 59	H = 02 24 58.4 h = 428 km MAG=5.0
	ePKP2	A 44 05	D = 149.5° Az = 347.9° (USCGS)
			PKHKPV:1.4s 46.0nm PKP2V:1.7s 48.2nm
24.	eP	A 04 26 55.5	<u>Jan Mayen Island</u> 71.89°N 0.94°W
	ePL	C 27 00	H = 04 22 01.2 h = normal MAG=5.0
	e	A 27 35	D = 22.1° Az = 158.4° (USCGS)
	eS	C 30 56	PV:1.6s 136nm SH:15s 1.7 μ m
	LmH	B 36.8	LmH:15s 0.9 μ m LmV:15s 1.1 μ m
	LmV	B 36.8	MPV=5.2 MSH=5.2 MLH=4.3 MLV=4.6
24.	eP	A 08 45 07	<u>Sakhalin Island</u> 54.54°N 142.54°E
	e	A 45 14	H = 08 34 13.5 h = normal MAG=5.0
	LmH	B 09 13.3	D = 67.4° Az = 328.6° (USCGS)
	LmV	B 17.9	PV:1.7s 57.0nm
			LmH:17s 2.0 μ m LmV:14s 1.8 μ m
			MPV=5.5 MLH=5.4 MLV=5.5
24.	e(P)	A 15 23 15	<u>Gulf of Alaska</u> 57.25°N 149.50°W
	eX	A 23 21.5	H = 15 11 53.2 h = normal MAG=4.3 (USCGS)
	e	A 23 26.5	D = 71.2°
			XV:1.2s 15.3nm
			The first motion of P must be about 5 s earlier.
24.	eP1	A 20 13 55.5	<u>Leeward Islands</u> 17.38°N 61.11°W
	iP2	A 13 59	H = 20 03 10.9 h = 24 km MAG=6.4
	iPcP	B 14 25	D = 65.8° Az = 41.8° (USCGS)
	eiS	B 22 42.5	P1V:1.2s 25.5nm P2V:2.2s 927nm
	iS	B 22 46.5	SH:16s 5.7 μ m SoSH:15.5s 8.8 μ m
	i(PPS)	C 23 16	XV:16s 5.1 μ m PKPPKPV:2.1s 60.5nm
	iScS	B 23 42	LmH:19s 21.9 μ m LmV:19s 31.6 μ m
	iX	B 24 08	MP1V=5.3 MP2V=6.6 MSH=6.5 MLH=6.4
	eiSS	C 27 16	MLV=6.6
	LmH	B 37.9	Probably multiple shock in the same focus
	LmV	B 38.2	area.
	ePKPPKP	A 42 35	

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Day	Phase	h m s	Remarks
24.	-iP A	21 43 17.5	<u>Leeward Islands</u> 17.43°N 61.26°W
	LmH B	22 06.7	H = 21 32 31.3 h = 20 km MAG=5.9
	LmV B	07	D = 65.9° Az = 41.8° (USCGS) PV:2.1s 242nm LmH:19s 5.2/um LmV:20s 5.2/um MPV=6.0 MLH=5.8 MLV=5.8
24.	eP A	23 59 53	<u>India</u> 17.54°N 73.88°E
			H = 23 49 53.9 h = normal MAG=5.5
			D = 59.1° Az = 318.9° (USCGS)
			PV:0.6s 11.9nm MPV=5.2
25.	ePKIKP A	01 42 28.5	<u>New Ireland</u> 5.28°S 153.67°E
	+eiPP B	44 18.5	H = 01 23 33.6 h = 64 km MAG=5.7
	eiSKKS C	51 11	D = 124.8° Az = 331.5° (USCGS)
	eiS C	52 06	PKIKPV:1.3s 25.0nm PPV:21s 9/um
	iPS C	54 13	PPH:21s 6.4/um
	i(SPP) C	55 40	LmH:21s 65.0/um LmV:21s 76.6/um
	eISS C	02 01 12	MPPV=6.6 MPPH=6.8 MLH=7.3 MLV=7.3
	LmV B	36.7	e1 42 31 e 42 32.5
	LmH B	38.4	S is the diffracted S around the core.
	25.	e(pP) A	10 55 34
i A		56 23.5	21.48°S 70.37°W
ePP A		59 34	H = 10 41 31.6 h = 53 km MAG=5.8
eiSKS B		11 05 55	D = 101.4° Az = 40.0° (USCGS)
eS C		06 58	PPV:2.5s 102nm SH:14s 1.4/um
eiPS C		08 28	LmH:21s 3.7/um LmV:22s 4.7/um
eISS C		13 52	MPPV=5.9 MSH=6.0 MLH=5.8 MLV=5.9
LmH B		38.5	e 13 58 e 19 (18)
LmV B		39	P must be about 14 s earlier than (pP).
25.		e A	11 04 07
25.	eP A	21 29 34.5	<u>North of Ascension Island</u> 1.90°S 12.73°W
	LmH C	54.2	H = 21 19 52.4 h = normal MAG=5.0
	LmV C	55	D = 56.3° Az = 18.4° (USCGS) LmH:20s 0.8/um LmV:18s 0.8/um MLH=4.8 MLV=4.9

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Day	Phase	h m s	Remarks
26.	eP A	09 41 43	<u>Off Coast of Oregon</u> 44.48°N 129.69°W
	LmH B	10 19.2	H = 09 29 38.5 h = normal MAG=5.1
	LmV B	19.2	D = 79.5° Az = 23.9° (USCGS) PV:1.4s 15.3nm LmH:16s 1.4/um LmV:16s 1.5/um MPV=4.9 MLH=5.4 MLV=5.5
26.	LmV C	10 06.5	<u>New Ireland Region</u> 5.15°S 153.71°E
			H = 08 52 42.3 h = 59 km MAG=5.2 (USCGS) D = 124.7° LmV:20s 1.2/um MLV=4.5
26.	LmH C	10 41.6	<u>Off Coast of Oregon</u> (USCGS)
26.	eP A	10 52 46	<u>Off Coast of Oregon</u> 44.50°N 129.70°W
	e A	52 50	H = 10 40 40.6 h = normal MAG=5.0
	LmH C	11 30	D = 79.5° Az = 23.9° (USCGS)
	LmV C	30	
26.	ePKP2 A	14 55 04.5	<u>South of Kermadec Islands</u> 32.04°S 177.99°W
			H = 14 34 27.8 h = normal MAG=4.7 (USCGS) D = 160.0° PKP2V:1.1s 14.4nm
26.	eP A	22 35 54	<u>Near Islands/Aleutian</u> 51.68°N 174.54°E
			H = 22 24 03.3 h = normal MAG=4.6
			D = 77.0° Az = 348.9° (USCGS) PV:1.3s 8.3nm MPV=4.9
27.	LmH C	03 14	Probably to South Pacific Cordillera
	LmV C	14.3	54.8°S 132.8°W H = 01 48 10.7 h = normal MAG=4.8 (USCGS) D = 158.3° LmH:18s 0.5/um LmV:20s 0.5/um (MLH=5.3 MLV=5.4)

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Day	Phase	h m s	Remarks
27.	LmH	C 03 24.4	Probably to Solomon Islands $5.2^{\circ}\text{S } 154.0^{\circ}\text{E}$
	LmV	C 24.9	H = 02 11 26.5 h = 113 km (USCGS) D = 124.9° LmH:18s 0.5 μm LmV:18s 0.5 μm
27.	e	A 04 47 40	
27.	e(P)	A 07 21 10	TRI: ePn 20 01.8 D = 700 km KHC: eP 20 43
27.	-eP	A 09 31 26	<u>Chile - Bolivia Border Region</u>
	-iP	B 31 27	$21.20^{\circ}\text{S } 68.30^{\circ}\text{W}$
	+eipP	B 31 58	H = 09 17 55.7 h = 135 km MAG=6.4
	iPP	A 35 27.7	D = 100.0° Az = 39.5° (USCGS);
	epPP	B 36 00	h = 125 km
	iSKS	B 42 00	PV(A):1.7s 105nm PV(B):6s 0.9 μm
	iSKKS	B 42 28	PPV:2.0s 139nm SPH(C):18.5s 9.7 μm
	isSKS	B 42 55	SPV(B):14.5s 6.3 μm (PPS)H:25s 11.1 μm
	eiSP	C 44 15	PKKPV:1.9s 41.2nm (pPKKP)V:2.0s 79.4nm
	iSP	B 44 20	LmH:20s 5.8 μm LmV:19s 7.3 μm
	i(PPS)	C 45 14	MPV(A)=6.1 MPV(B)=6.4 MPPV=6.1
	ePKKP	A 47 45	
	e(pPKKP)	A 48 12	
	27.	LmH	B 10 14.5
LmV		B 14.7	
27.	LmH	C 15 45.5	<u>New Guinea</u> $3.5^{\circ}\text{S } 141.3^{\circ}\text{E}$ H = 14 39 08.5 h = 36 km MAG=5.1 (USCGS) D = 116.9° LmH:22s 0.6 μm MLH=5.1
27.	-ePKIKP	A 16 42 34	<u>Tonga Islands</u> $22.34^{\circ}\text{S } 174.78^{\circ}\text{W}$
	+iPKHKP	A 42 41.5	H = 16 22 48.5 h = normal MAG=6.1
	+iPKP2	A 42 49.5	D = 151.3° Az = 351.5° (USCGS)
	eiSKKS	C 53 14	PKIKPV:1.8s 76.5nm PKHKPV:1.8s 622nm
	e(PSKS)	C 56 12	PKP2V:1.6s 334nm
	eiPPS	C 59 22	LmH:19s 4.2 μm LmV:19s 5.4 μm
	eSS	C 17 05(44)	MLH=6.2 MLV=6.4
	eSSS	C 11 20	e 42 36.5 i 42 43.0 ei 43 00

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Day	Phase	h m s	Remarks
cont.			
27.	LmH	B 17 57	
	LmV	B 18 14.7	
27.	ePKHKP	A 19 45 56	<u>Tonga Islands</u> $21.82^{\circ}\text{S } 174.76^{\circ}\text{W}$
	e	A 46 08	H = 19 26 05.9 h = normal MAG=4.6 D = 150.8° Az = 351.7° (USCGS)
28.	ePKP	A 00 17 57	<u>Tonga Islands</u> $16.38^{\circ}\text{S } 174.01^{\circ}\text{W}$ H = 23 58 34.2 h = 150 km MAG=4.2 D = 145.5° Az = 353.7° (USCGS) PKPV:1.2s 15.3nm
28.	eP	A 06 30 48.5	
28.	eP	A 06 38 23.5	<u>Off Coast of Oregon</u> $44.18^{\circ}\text{N } 128.84^{\circ}\text{W}$
	eS	B 48 22	H = 06 26 15.8 h = normal MAG=5.4
	eSS	C 53 30	D = 79.5° Az = 24.3° (USCGS)
	eLQ	C 58.6	PV:2.4s 102nm SH(C):25s 2.1 μm
	LmH	B 07 15.9	LmH:18s 5.7 μm LmV:17s 7.2 μm
	LmV	B 16.1	MPV=5.5 MSH=5.8 MLH=6.0 MLV=6.1
28.	eP	A 07 13 45	<u>Off Coast of Oregon</u> $44.2^{\circ}\text{N } 129.0^{\circ}\text{W}$
	e	A 13 49	H = 07 01 36.8 h = normal MAG=4.9 (USCGS)
	LmH	B 51	D = 79.5°
	LmV	B 51.3	LmH:16.5s 1.6 μm LmV:16s 1.6 μm MLH=5.5 MLV=5.5
28.	e	A 12 16 13	
28.	e(Sg)	A 12 49 43	Explosion? KHC gives: iPg 48 26.5 iSg 48 45.5 D = 1.5°
28.	eP	A 22 23 42	<u>Off Coast of Oregon</u> $44.24^{\circ}\text{N } 128.90^{\circ}\text{W}$
	i	A 23 49.4	H = 22 11 33.9 h = normal MAG=5.0
	LmH	B 23 01.3	D = 79.5° Az = 24.3° (USCGS)
	LmV	B 01.3	LmH:16s 1.3 μm LmV:16s 1.2 μm MLH=5.4 MLV=5.4

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Day	Phase	h m s	Remarks
29.	1Pg	A 10 35 29.8	Explosion
	1Sg	A 35 46.0	D = ca. 1.2°
29.	eP	A 12 47 41.5	<u>Near East Coast of Kamchatka</u> 56.33°N 163.93°E H = 12 36 26.4 h = 36 km MAG=4.6 D = 70.9° Az = 341.8° (USCGS)
29.	e	A 12 53 42	
29.	e(P)	A 18 33 56	(P)V:1.2s 15.3nm
29.	eP1	A 19 52 02.5	<u>Albania - Yugoslavia</u> 41.46°N 20.40°E
	1P2	A 52 05.5	H = 19 49 23.6 h = 39 km MAG=4.7
	1P3	A 52 11.5	D = 11.0° Az = 329.5° (USCGS)
	LmH	B 55.7	P2V:1.2s 35.7nm
	LmV	C 56.6	LmH:15s 2.2/um LmV:11s 0.8/um MLH=4.2 Multiple P.
29.	ePKHKP	A 20 49 25	<u>Tonga Islands</u> 22.82°S 175.28°W
	ePSKS	C 21 03.3	H = 20 29 32.2 h = 30 km MAG=5.3
	ISS	C 12 40	D = 151.7° Az = 350.7° (USCGS)
	eSSS	C 18 20	PKHKPV:1.5s 20.2nm
	LmH	B 22 04.7	LmH:17s 1.3/um LmV:20s 2.0/um
	LmV	B 05.4	MLH=5.7 MLV=5.9
29.	ePKHKP	A 22 42 58.5	<u>Tonga Islands</u> 22.71°S 175.23°W
	ePKP2	A 43 09	H = 22 23 06.0 h = normal MAG=5.1
	LmH	C 24 08.5	D = 151.6° Az = 350.8° (USCGS) PKP2V:1.5s 23.5nm
29.	LmH	B 23 01.2	<u>Albania - Yugoslavia</u> H = 22 54.9 (UPP)
30.	ePn	A 04 20 47	<u>Northern Italy</u> 44.74°N 12.17°E
	1Pg	B 21 18	H = 04 19 21.2 h = normal MAG=5.3
	1Sn	B 21 54	D = 5.9° Az = 356.6° (USCGS)
	1Sg	B 22 36	LmH:8.5s 24.7/um LmV:10.5s 24.0/um

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Day	Phase	h m s	Remarks
cont.			
30.	LmH	B 04 22.9	MLH=4.9
	LmV	B 23.6	Multiple P in our short-period records.
30.	eP	A 21 30 16	<u>Greece</u> 40.7°N 21.6°E
	e	A 30 22	H = 21 27 21.4 h = 53 km MAG=4.3 (USCGS)
	e	A 30 30	D = 12.2°
	e	A 30 56	PV:1.4s 12.3nm
31.	eP	A 02 41 37	<u>Aleutian</u> 51.9°N 171.8°W
	e	A 41 39	H = 02 29 41.2 h = 40 km MAG=4.9 (USCGS)
	epP	A 41 51	D = 77.8°
31.	LmH	C 07 08.5	Probably to South of Greece (UPP).
31.	e	A 11 03 53.5	
31.	ePKIKP	A 15 24 38	<u>Solomon Islands</u> 7.14°S 154.84°E
	LmH	C 16 25.5	H = 15 05 32.3 h = 19 km MAG=5.4 D = 127.0° Az = 331.5° (USCGS)

No.	Time	Amplitude	Period	Phase	Depth
19.	12.15	0.15	0.15	0.15	0.15
20.	12.30	0.20	0.20	0.20	0.20
21.	12.45	0.25	0.25	0.25	0.25
22.	13.00	0.30	0.30	0.30	0.30
23.	13.15	0.35	0.35	0.35	0.35
24.	13.30	0.40	0.40	0.40	0.40
25.	13.45	0.45	0.45	0.45	0.45
26.	14.00	0.50	0.50	0.50	0.50
27.	14.15	0.55	0.55	0.55	0.55
28.	14.30	0.60	0.60	0.60	0.60
29.	14.45	0.65	0.65	0.65	0.65
30.	15.00	0.70	0.70	0.70	0.70
31.	15.15	0.75	0.75	0.75	0.75
32.	15.30	0.80	0.80	0.80	0.80
33.	15.45	0.85	0.85	0.85	0.85
34.	16.00	0.90	0.90	0.90	0.90
35.	16.15	0.95	0.95	0.95	0.95
36.	16.30	1.00	1.00	1.00	1.00
37.	16.45	1.05	1.05	1.05	1.05
38.	17.00	1.10	1.10	1.10	1.10
39.	17.15	1.15	1.15	1.15	1.15
40.	17.30	1.20	1.20	1.20	1.20
41.	17.45	1.25	1.25	1.25	1.25
42.	18.00	1.30	1.30	1.30	1.30
43.	18.15	1.35	1.35	1.35	1.35
44.	18.30	1.40	1.40	1.40	1.40
45.	18.45	1.45	1.45	1.45	1.45
46.	19.00	1.50	1.50	1.50	1.50
47.	19.15	1.55	1.55	1.55	1.55
48.	19.30	1.60	1.60	1.60	1.60
49.	19.45	1.65	1.65	1.65	1.65
50.	20.00	1.70	1.70	1.70	1.70

It is clear that this work is to be considered as a preliminary study of the problem of the relative frequencies of body-wave onsets. The results of this study are presented in the form of a series of curves which show the relative frequencies of body-wave onsets as a function of the focal region, epicentral distance, focal depth and the type of the seismograph. The knowledge of these curves is essential for the interpretation of seismic records and for the identification of seismic events.

A Study of Relative Frequencies of Body-Wave Onsets in Seismic Registrations of the Station Moxa

by

PETER BORMANN¹⁾

1. Aim of the Researches

The clearness of seismic onsets is above all dependent on the difference of the periods and amplitudes of the signals to those of the noise, i. e. of signal noise ratio (SNR). Supposing that on an average equally distinct onsets are interpreted with the same frequency in registrations of the same type (short-period, broad-band, long-period respectively), then significant frequency differences are a hint as to the different spectres of periods and amplitudes of the corresponding wave onsets. The spectres of periods and amplitudes of the recorded seismic waves are dependent upon the character of the focal mechanism, on the released seismic energy, of the tectonics and the medium in the focal region, of the focal depth h , of the kind of the wave spreading in space, of the epicentral distance D , of the influences along the wave path (attenuation, dispersion, diffraction, reflection, mode conversation), of the station underground and the response characteristics of the seismographs. Only part of the factors of influence are well-known and can be taken into consideration in appropriate form in statistic analysis.

First we are interested in the frequency of the registration of all significant body wave phases at the station Moxa dependent on the focal region, epicentral distance, focal depth and the type of the seismograph. Frequency distributions attained in this way offers the possibility of evaluating weighting factors for the interpretation of seismic phases as well as of criteria for the identification and location of seismic events. In connection with a catalogue of the types of seismic records they also represent an essential help for bulletin work, particu-

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larly in case that this work is to be transferred to technical forces without any loss of size or information content. Apart from this the results of the frequency analyses give valuable clues for a purposive study of details of the quantitative differences in the spectres of periods and amplitudes, which cause those differences in distinctness and thus frequency. Their finding, classification and statistic securing are conditions for an exploration of their causes. The knowledge of corresponding standard and their range of variation is of significance for a routine computer interpretation of the seismogrammes, since an unambiguous interpretation of the phases is not always possible in the light of the onset times of the seismic waves.

2. Starting Material and Preliminary Results of Frequency Analyses

Starting material for frequency analysis was the detail interpretations of the registrations performed by the author for the seismological bulletins of the station Moxa in 1965, 1966, and 1967. All evaluations of earthquakes with $MAG \geq 5.5$ were taken into consideration. The SNR, as a rule, is then big enough to evaluate several body wave onsets in all three standard registrations of the type A, B, and C (vid. page 13). Some of the most interesting preliminary results of frequency analyses are summed up in the tables 1-4, from which interpretation aids and location criteria can be deduced for the registrations of the station Moxa. A graphic description of the frequencies of interpretation of seismic body wave onsets in registrations of earthquakes in various regions is given in the fig. 1-13.

Table 1
Relative frequencies of interpretation of the most significant deep earthquake phases in teleseismic registrations of earthquakes in different focal depth intervals

Phase	$h < 70$ km	$70 \text{ km} \leq h \leq 300$ km	$h > 300$ km
pP, pPKP	28%	60%	67%
sP, sPKP	7%	18%	12%
pPP	3%	18%	12%
sS	<1%	13%	14%

Table 2
Significant differences in the distribution of focal depths of earthquakes registered from different regions equally distant from Moxa (error probability $\pi \leq 10\%$)

Focal depths [km]	Frequency [%]	Region	D [°]
$70 \leq h \leq 300$	78	Hindukush	41...46
	0	all other regions	
$h > 300$	57	N-Argentina	97...105
	0	all other regions	
	22	Banda Sea	110...115
	0	all other regions	
	66	Fiji Islands	144...156
	0	all other regions	

Table 3

Significant differences in the frequency of the interpretation of equal phases in registrations of earthquakes from various regions equally distant from Moxa ($\pi \leq 10\%$)

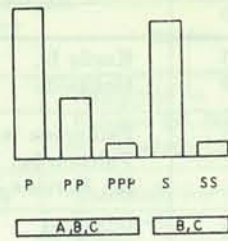
Phase	Frequency [%]	Region	D [°]
P	100	Philippine Is. Vulcano Is., Bonin Is., Mariana Is.	86...102
	60		90...105
PP	46/33	Hokkaido/Aleutian Is. Kurile Is.	75...79
	14		75...79
S	100	Banda Sea South Sandwich Is.	110...115
	22		110...115
SKS	39	W-Aleutian Is. E-Aleutian Is.	75...78
	68		76...79
PS	60	South America SE-Indonesia	92...110
	20		100...110
SS	53	South America SE-Indonesia	92...110
	17		100...110
PP/P	20	W-Aleutian Is. E-Aleutian Is.	75...78
	68		76...79

Table 4

Frequency ratios of some phase pairs in registrations of earthquakes from various regions, equally distant from Moxa

Phase ratio	Frequency ratio	Region	D [°]
PP/P	0,16	Kurile Is. Hokkaido	75...79
	0,50		77...79
PP/S	0,68	Philippine Is. Vulcano Is., Bonin Is., Mariana Is.	86...102
	1,5		90...105
PP/SS	0,26	Kurile Is. Hokkaido	75...79
	0,60		77...79
PP/PS	0,35	E-Aleutian Is. W-Aleutian Is.	76...79
	0,79		75...78
PP/SS	1,0	Philippine Is. Vulcano Is., Bonin Is., Mariana Is.	86...102
	2,0		90...105
PP/PS	1,5	South Sandwich Is. Banda Sea	110...115
	3,0		110...115
PP/SS	0,75	South Sandwich Is. Banda Sea	110...115
	1,80		110...115
PP/PS	0,69	South Sandwich Is. Banda Sea	110...115
	1,64		110...115
PS/S	0,18	E-Aleutian Is. W-Aleutian Is.	76...79
	0,48		75...78
PS/S	0,24	Philippine Is. Vulcano Is., Bonin Is., Mariana Is.	86...102
	1,0		90...105
PS/SS	0,18	E-Aleutian Is. W-Aleutian Is.	76...79
	0,90		75...78

Türkei, Kaukasus, östl. Mittelmeer
 $20^{\circ} \leq D < 26^{\circ}$ n = 10



Rotes Meer, Golf v. Aden, Afrika
 $36,5^{\circ} < D < 69^{\circ}$ n = 16

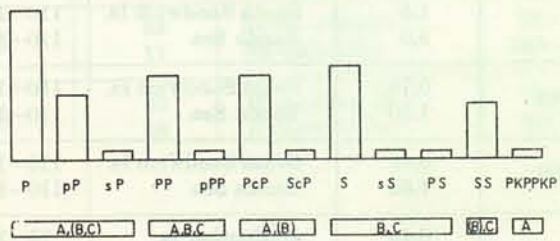
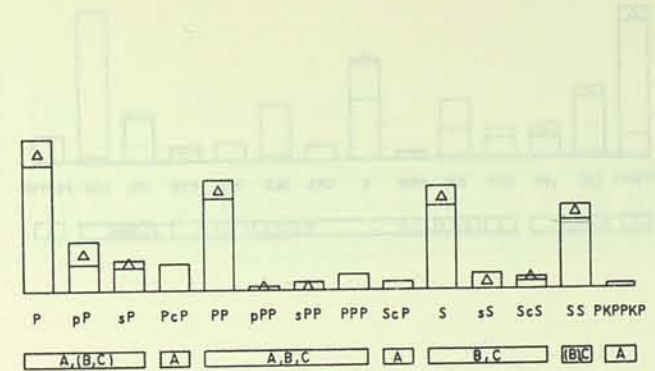


Fig. 1. Frequencies of the interpretation of body wave phases related to the total number in the earthquakes studied (1st column) with a hint to the type of the seismograph, by which these phases are registered more or less distinctly (symbols in parentheses).
 White field: $h < 70$ km, Δ : $70 \text{ km} \leq h \leq 300$ km, \diamond : $h > 300$ km

Persischer Golf, S-Iran, Afghanistan, W-Pakistan, Hindukusch, Kaschmir, Pamir,
 Tienschan, Sinkiang Prov., mittelasiatische Unionsrepubliken der SU
 $35^{\circ} < D < 50^{\circ}$ n = 40



Himalaja, Nepal, Burma, Tibet, E-China, Mongolei, Pribaikal
 $50^{\circ} < D < 74^{\circ}$ n = 31

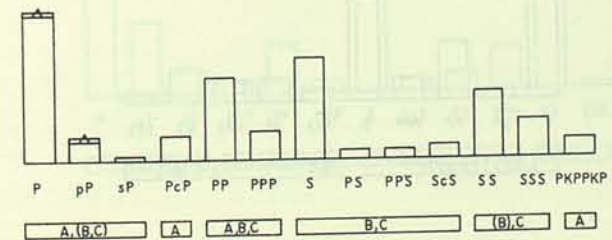
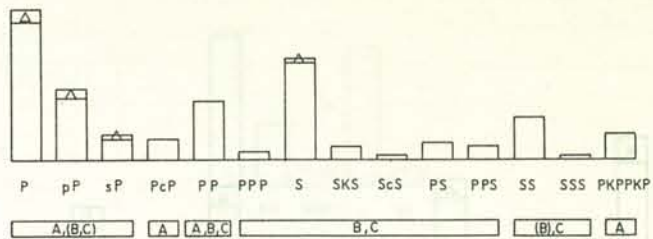


Fig. 2. Comments vid. fig. 1

Alaska, Kodiak Insel
62° < D < 77° n = 36



Kamtschatka, Komandorski Inseln
71° < D < 75° n = 13

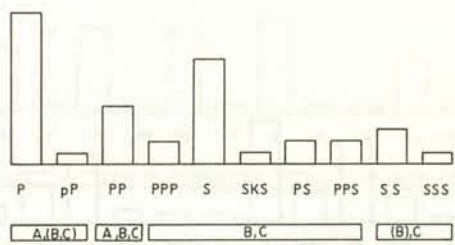
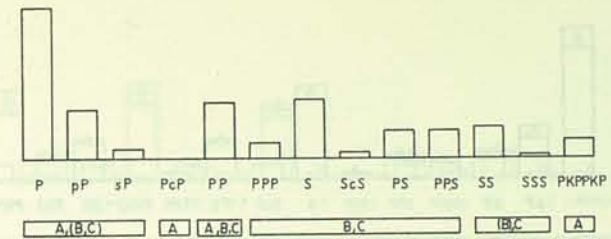


Fig. 3. Comments vid. fig. 1

Nahe Inseln, Ratten Inseln (Aleuten)
75° < D < 78° n = 49



Fuchs Inseln, Andreanof Inseln (Aleuten)
76° < D < 79° n = 25

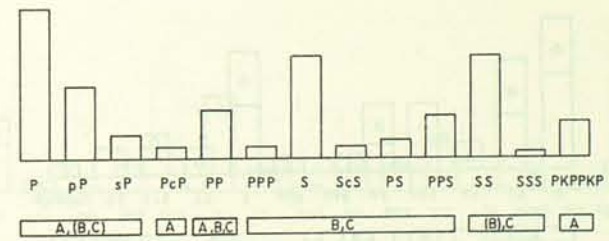
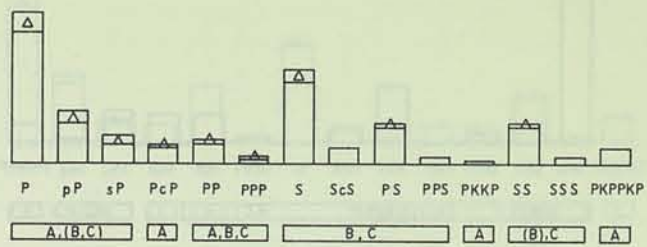


Fig. 4. Comments vid. fig. 1

Kurilen
75° < D < 79°, n=37



Hokkaido
77° < D < 79°, n=11

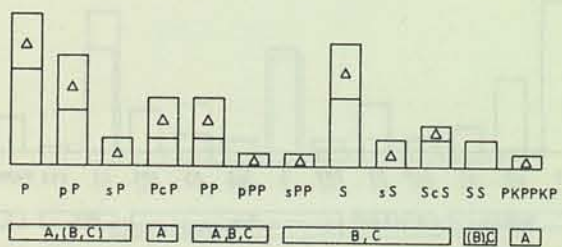
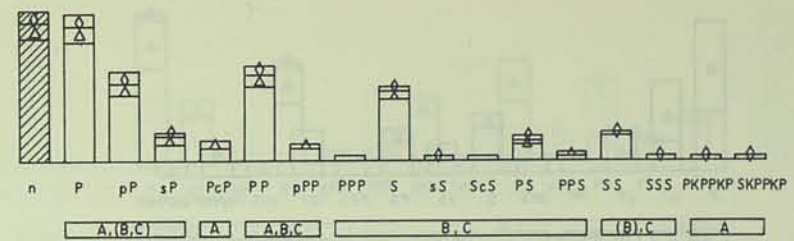


Fig. 5. Comments vid. fig. 1

Honshu, Kyushu, Japan. Meer
76° < D < 84°, n=37



Ryukyu Inseln, Taiwan Region
82° < D < 86°, n=29

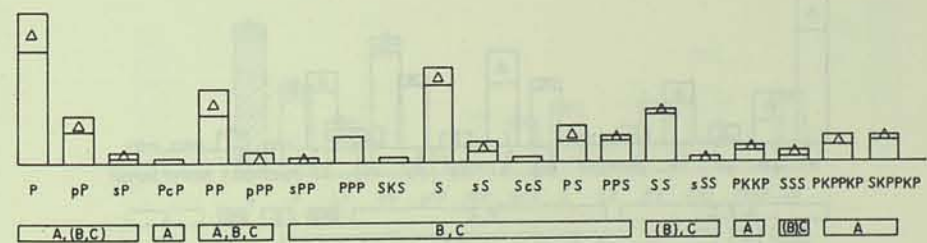
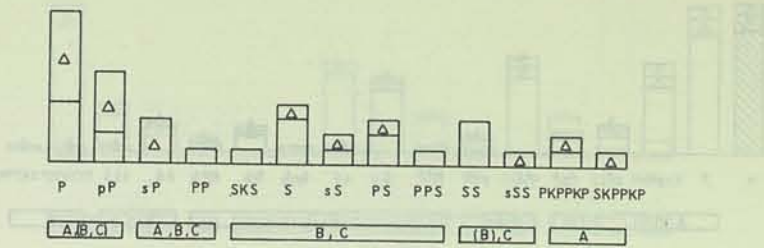


Fig. 6. Comments vid. fig. 1

Ekuador, Kolumbien, Venezuela
74° < D < 93° n = 10



Mittelamerika, Mexiko
85° < D < 93°, n = 32

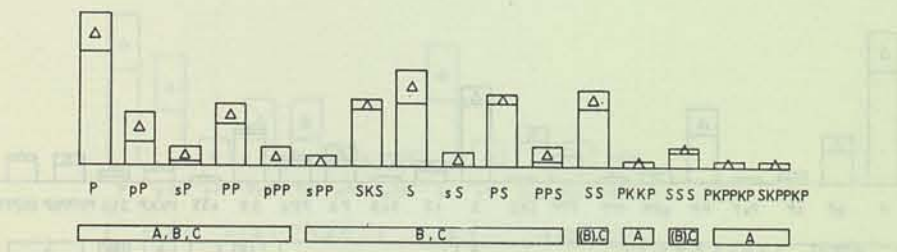
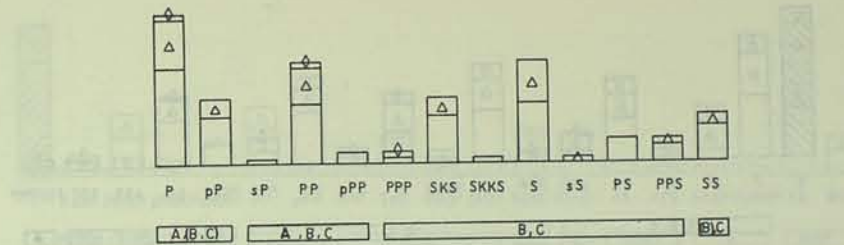


Fig. 7. Comments vid. fig. 1

Philippinen
86° < D < 102° n = 25



Vulkan Inseln, Bonin Inseln, Marianen
90° < D < 105° n = 20

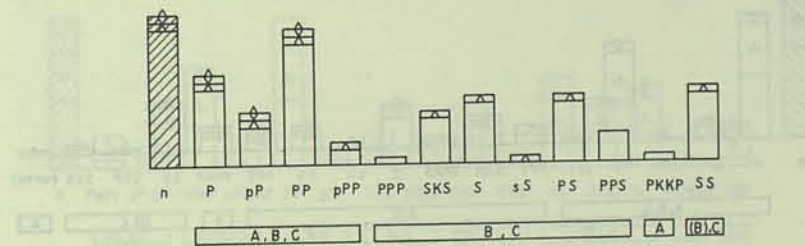
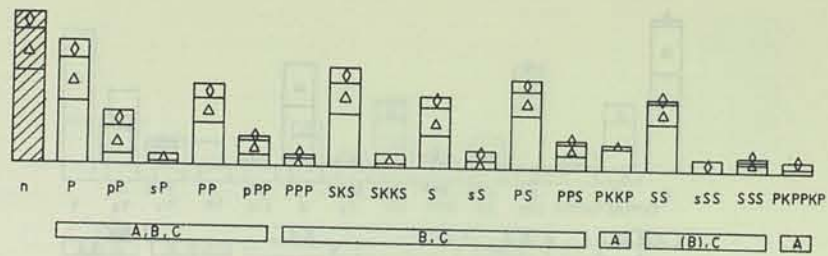


Fig. 8. Comments vid. fig. 1

Zentral- u. Nordchile, Argentinien, Peru u. Grenzgebiete
 $92^\circ < D < 110^\circ$, $n = 43$



Halmahera, Celebes, Molukken, Java
 $100^\circ < D < 110^\circ$, $n = 30$

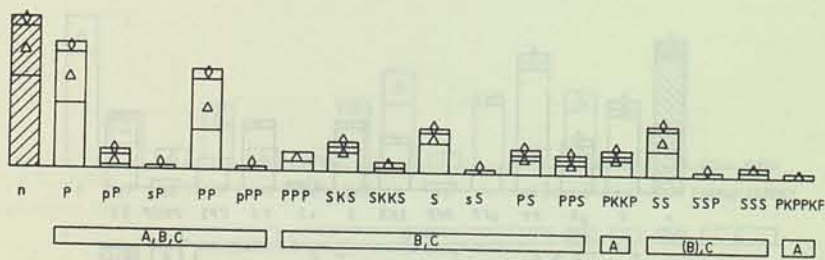
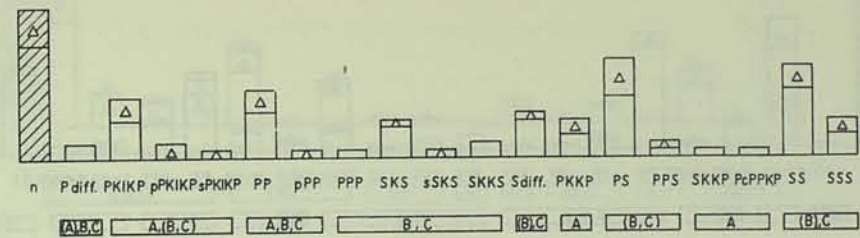


Fig. 9. Comments vid. fig. 1

Süd Sandwich Inseln, Süd Georgien
 $110^\circ \leq D < 115^\circ$, $n = 20$



Banda See
 $110^\circ \leq D < 115^\circ$, $n = 18$

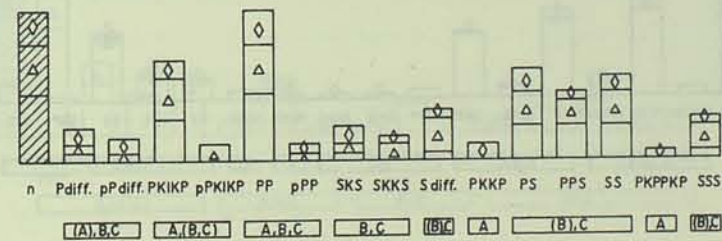


Fig. 10. Comments vid. fig. 1

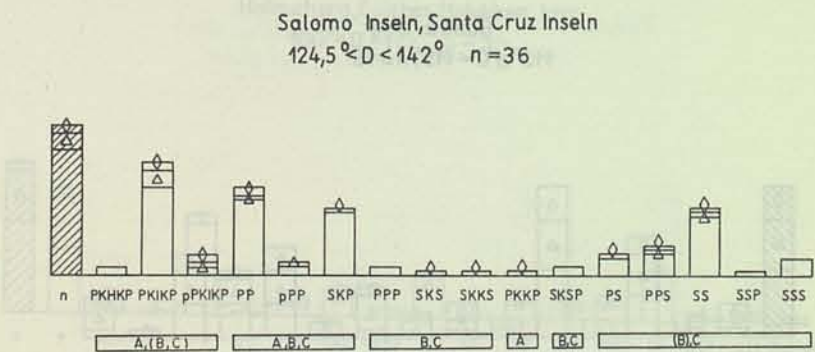
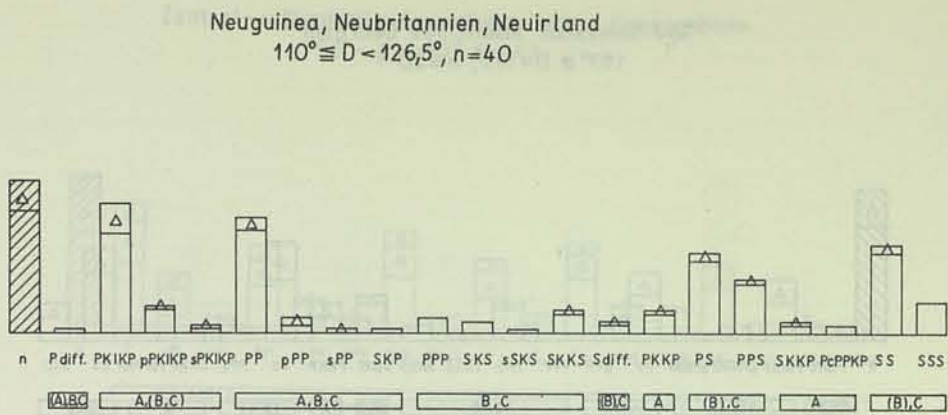


Fig. 11. Comments vid. fig. 1

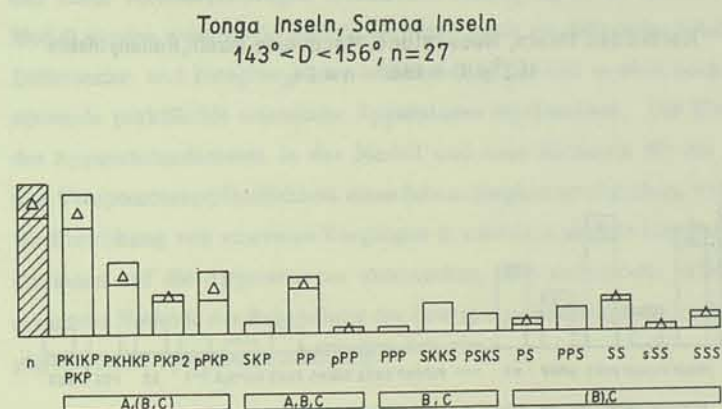
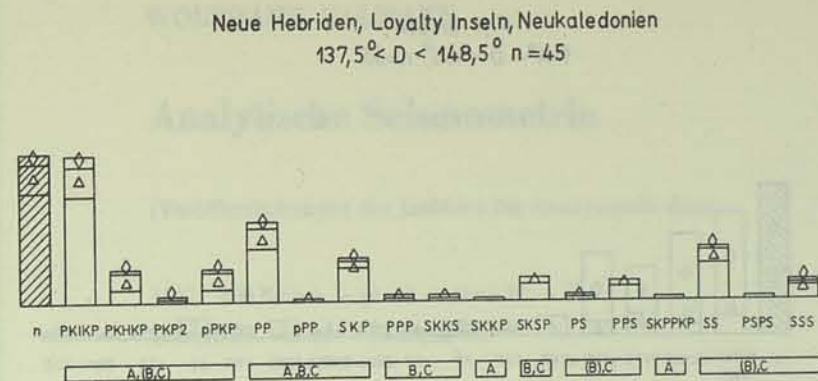
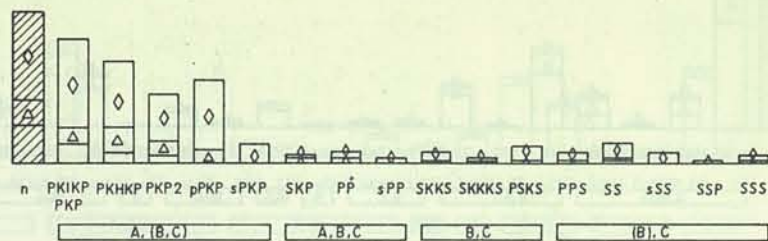


Fig. 12. Comments vid. fig. 1

Fiji Inseln
 $144^\circ < D < 156^\circ$, $n=55$



Kermadec Inseln, Neuseeland, Macquarie Inseln, Balleny Inseln
 $152^\circ < D < 166^\circ$, $n = 24$

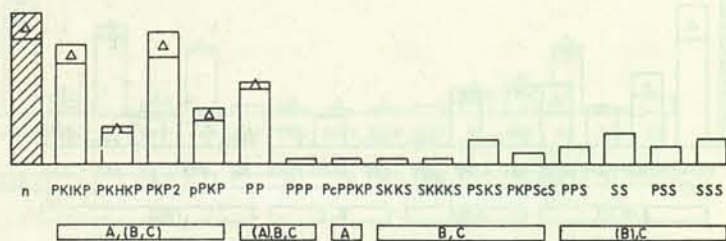


Fig. 13. Comments vid. fig. 1

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Analytische Seismometrie

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Der Autor entwickelt für eine Gesamtheit von gegenwärtig international gebräuchlichen kompletten seismischen Stationsapparaturen ein theoretisches Modell unter verschiedenartigen seismischen Bedingungen. In diesem komplexen Modell werden wesentliche Nichtlinearitäten sowie als elektrische Schaltelemente Differenzier- und Integrierglieder berücksichtigt, so daß es auch noch nicht existierende praktikable seismische Apparaturen repräsentiert. Die Einbeziehung des Apparatefundaments in das Modell und neue Kriterien für die Neigungs-

Druckfehlerberichtigung zu Appendix

Datum	Ereignisnummer	falsch	richtig
5. 9. 62	43	ist zu streichen	
25. 9. 62	475	22 ^h	21 ^h
4. 9. 62	669-691	4. 9. 62	5. 9. 62
30. 11. 62	862	20 ^h	21 ^h
23. 1. 78	2	34.2	3.2
18. 2. 79	1	18. 2. 78	18. 2. 79