Geophysical Institute of the Czechoslovak Academy
of Sciences

BULLETIN OF THE CZECHOSLOVAK SEISMOLOGICAL STATIONS PRŮHONICE, PRAHA, KAŠPERSKÉ HORY

JANUARY – JUNE 1966

ACADEMIA

NAKLADATELSTVÍ ČESKOSLOVENSKÉ AKADEMIE VĚD

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Contents

Preface

Beginning from the volume 1966 the annual seismological bulletins edited by the Geophysical Institute of the Czechoslovak Ac.Sci. will contain only the data of the stations Průhonice, Praha and Kašperské Hory. The final interpretation of the records of the stations Bratislava, Hurbanovo, Šrobárová and Skalnaté Pleso, located on the territory of Slovakia, will be published in a separate volume edited by the Geophysical Institute of the Slovak Ac.Sci. The operation of the station Cheb has been suspended since May 1965.

The central Czechoslovak station Průhonice and the station Kašperské Hory operated under the supervision of the Geophysical Institute of the Czechosl.Ac.Sci. The Geophysical Institute of the Charles University was responsible for the operation of the station Praha. The same institutions were preparing the preliminary reports and the final interpretation of records and were performing the usual exchange of data and records with foreign stations.

Ten-days preliminary bulletins were issued by the station Praha; the data of the stations Průhonice and Kašperské Hory were sent twice a week to the world centres in Washington (USCGS), Strasbourg (BCIS) and Moscow (Institute of the Earth's Physics) and were also published in the monthly bulletins.

The annual bulletin contains the final interpretation of records made on the basis of the revised earthquake parameters published by the International Seismological Centre in Edinburgh (ISC). For some events also parameters given by the Bureau Céntral International de Séismologie in Strasbourg (BCIS) or by an individual station were used, denoted in the last case by the code of the station in question.

The uniform methods of interpretation were used by all Czechoslovak stations. Shallow earthquakes were analysed using the local travel-time curves (1, 2) or the Jeffreys-Bullen curves (3). Gutenberg-Richter tables (4) were used for the analysis of deep shocks. Near earthquakes, explosions and rockbursts were interpreted in accordance with the special travel-time curves (5, 6, 7, 8). Analysis of the core waves was carried out in accordance with the Bolt's tables (9). The epicentral distances Dc are quoted in most cases from the ISC bulletin. For the earthquakes interpreted later the epicentral distance were calculated by the computer.

The surface wave magnitudes were determined by the stations Praha and Průhonice using the standard calibration curves (10) for the distant shallow earthquakes ($Dc \geq 20°$). The corrections given in Tab. 1 were applied to the shocks with the depths of foci from 60 to 200 km. Body wave magnitudes were

calculated according to the recommendations of the IASPEI (Commitee on Magnitudes).

Standard measurements of microseisms were carried out by the station Praha.

Preliminary analysis of seismograms recorded by Průhonice and Kašperské Hory was performed by J.Nykles, B.Závorka and B.Bartizal from the Geophysical Institute of the Czechosl.Ac.Sci. J.Janský and J.Hudec (Geophysical Institute of the Charles University, Praha) prepared the preliminary reports of the station Praha. The annual bulletin 1966 was edited by V.Kárník, J.Nykles, B.Závorka, J.Janský and Miss J.Plomerová with the technical assistence of Mrs.S.Černíková and Miss N.Lukasová.

V.Kárník

Chief of the Czechoslovak Seismological Service.

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Table 1.

Depth Allowances for the Surface Wave Magnitude MLH

Distance Interval	Depth (km)	60	80	100	120	150	200
20°	M	0.4	0.5	0.7	0.8	1.1	1.5
50° - 140°	M	0.14	0.21	0.29	0.37	0.48	0.68

h = 100 km	Distance	25°	35°	50°
	M	0.7	0.5	0.3

List of symbols

(Remark: Only the symbols not generally used are explained)

T_1 = free period of the seismometer

T_2 = free period of the galvanometer

V_o = static magnification

V_m = maximum magnification

$\varepsilon : 1$ = damping ratio

D_1 = damping constant of the seismometer

D_2 = damping constant of the galvanometer

G_2 = coupling coefficient

D = epicentral distance determined by the analysis of the record

Dc = epicentral distance calculated using the geocentric coordinates of the station and the epicentre

Px, X_1, X_2,
Sx, Sb_1, Sb_2 = special phases of near earthquakes (see 5, 6, 7)

PKP = core wave, not precisely identified

PKIKP = core wave travelling through the Earth's inner core

PKHKP = core wave refracted on a discontinuity between the outer and inner core boundaries, preceding PKIKP at distances smaller than about 142° and following it at larger distances

PKP_2 = core wave penetrating only into the outer core

L, Lm = long period surface wave and its maximum

LmH = maximum horizontal amplitude of surface waves

Q, Qm = Love wave and its maximum

R, Rm = Rayleigh wave and its maximum

PH, PPH, SH = maximum horizontal amplitude of the wave in question

PV, PPV, SV = maximum vertical amplitude of the wave in question

PV(sp) = maximum amplitude of the P wave recorded by the shortperiod vertical seismograph

MLH, MPH, MPV = magnitude determined using the waves LH, PH, PV, PPH
MPPH, MSH = and SH, respectively

mPV = magnitude determined using the record of the short - period vertical seismograph

m = body wave magnitude determined by the World centre

K = characteristics of the microseisms:

1 = microseisms in regular groups

2 = continuous motion

3 = irregular motion

tt = record disturbed by an earthquake

wind

Seismic observations of the station PRUHONICE

January - June 1966

J.Nykles

Instruments:

I = Modified seismograph Wood - Anderson, mass 4g, magnetic damping, components N, E, photographic registration,

II = Vertical electrodynamic seismograph with short period SVSN, developped by V.Tobyáš and J.Štěpánek, galvanometric registration,

III = Electrodynamic seismograph Kirnos, components N, E, Z, galvanometric registration,

Station coordinates: φ = 49° 59.3′N, λ = 14° 32.5′E.

Elevation: h = 302 m.

Lithologic foundation: algonkian layers.

Instrument	Compt.	T_1(s)	T_2(s)	D_1	D_2	σ^2	V_o	Tm	Vm
I	N	2.6		0.57			1870	1.6	1975
	E	2.6		0.55			1870	1.6	2040
II SVSN-4	Z	0.96	1.47	1	1	0.17	5.72×10^6	0.8	36000
SVSN-6	Z	0.55	0.28	0.6	0.6	0.25	4.78×10^6	0.3	210000
III	N	30	1.2	0.5	5	0.1		1-10	970
	E	30	1.2	0.5	5	0.12		1-10	970
	Z	20	1.2	0.5	5	0.2		1-10	1040

Date	Phase	h m s	Remarks
1	e	16 09 19	
1	e	16 55 54	
2	eiPKP	03 53 21	Tonga Islands 16.0°S 173.9°W, H=03 33 58.4, h=143km(ISC), m=4.6(ISC), Dc=145.4°.
2	iP	04 16 38.5	D. Japan 31.3°N 138.3°E, H=04 04 45, h=389km (ISC), m=5.0 ISC, Dc=85.0°, TPV=1.0sec, A=34mu, mPV=5.1(sp)PRU.
	e	17 15	
2	ePKIKP	15 06 46	Tonga Islands 16.7°S 172.1°W, H=14 47 04, h= 16km(ISC), m=4.7ISC, Dc=146.4°.
2	ei	23 15 43	Greece 37.7°N 23.2°E, H=23 12 18, h=12km(ISC), m=5.0ISC, Dc=13.8°, LmH:10s 1.7u, MLH=4.4.
	ei	17 53.5	
	ei(S)	18 24.5	
	Lm	21.5	
3	iPKIKP	13 52 19.6	D. Fiji Islands 20.5°S 178.3°W, H=13 33 33.9, h=559km(ISC), m=4.9ISC, Dc=148.9°.
	eiPKP2	52 26.1	
	eipPKIKP	54 34	
3	eiPKIKP	16 03 45.5	C. New Hebrides 18.9°S 169.4°E, H=15 44 44.8, h=248km(ISC), m=5.3ISC, Dc=143.1°.
	ei	03 52.0	
3	eiP	18 28 40.4	Colombia 4.6°N 76.0°W, H=18 16 05.1, h=98km (ISC), m=5.1ISC, Dc=86.8°, TPV=1.0s, A=35.0mu, mPV=5.4(sp).
	eipP	29 07	
4	e	07 38 36	
4	e	07 55 51	
	ei	55 58.5	
4	eiP	07 58 39.5	Andaman Islands 11.9°N 95.1°E, H=07 47 05, h= 77km(ISC), m=4.8ISC, Dc=74.9°.
	eiPcP	58 47.5	
4	eSg	11 40 16	
5	e	10 33 09	
5	ePg	12 51 15	D=1.8°.
	eiSg	51 39	
5	eP	17 33 03	Andaman Islands 13.4°N 95.6°E, H=17 21 28.7, h=32km(ISC), m=5.3ISC, Dc=74.1°, LmH:25s, 4u, MLH=5.6 PRU.
	ei	33 13	
	iPcP	33 19	
	ei	33 33.5	
	ePP	35 55.3	
	eS	42 36	
	eL	18 00	
	Lm	10	

Date	Phase	h m s	Remarks
5	eP	18 23 28.5	Mariana Islands 21.8°N 146.6°E, H=18 10 01, h= 35km(ISC), m=5.3ISC, Dc=97.0°.
6	e(Pg)	10 00 06	
	eiSg	00 29.5	
6	ePg	12 39 13.5	D=1.8°.
	eiSg	39 38.5	
7	eiP	07 56 52.2	Kamchatka 52.7°N 160.0°E, H=07 45 25.2, h=71km (ISC), m=4.9ISC, Dc=73.6°.
7	eiPn	10 27 53.5	i 27 55.8
	i	27 55.8	
	ei	28 19	
7	iPg	12 00 19.5	Explosion 15.2t 50°25′N 13°50′E, Dc=70km.
	iSg	00 28.0	
	i	00 29.5	
	Lm	00 58	
7	eiPg	13 05 21.5	D=2°.
	eiSg	05 47	
	i	05 56.5	
7	e	13 37 41	
	eiSg	38 04.5	
7	eiPg	13 40 07.5	D=1.6°.
	iSg	40 30	
7	iPg	14 05 30.5	D=1.1°.
	iSg	05 45.5	
7	eiSg	14 53 47	
7	eiPKIKP	15 16 37.5	New Britain 5.2°S 152.6°E, H=14 57 44.6, h= 53km(ISC), m=5.3ISC, Dc=123.2°.
8	e	10 24 45	
	eiSg	25 04	
8	eiPn	11 27 06.5	
	i	27 08.0	
	ei	27 17.5	
	ei	27 21	
8	iPg	13 00 02.5	D=1.4°.
	eiSg	00 20.5	
8	eiP	20 10 38.5	Central Mid-Atlantic Ridge 8.0°N 36.8°W, H= 20 00 36.3, h=33km(ISC), m=4.4ISC, Dc=59.6°.

Date	Phase	h m s	Remarks
8	eiP	22 51 29.5	C. Japan 37.2°N 138.5°E, H=22 39 22.8, h=46 km(ISC), m=5.3 ISC, Dc=80.1°. TPV=1.0 sec, A=32.1 mu, mPV= 5.2(sp).
9	eP	09 22 43	Windward Islands 11.5°N 62.3°W, H=09 11 30.9,
	eipP	23 26	h=163 km(ISC), m=5.0 ISC, Dc=72.8°, TPV=1.2 s, A=31.2 mu, mPV=4.9.
9	eiPg	11 53 47.5	D=1.8°.
	eiSg	54 11.5	
10	eiP	01 31 55.7	Philippine Islands 13.8°N 120.7°E, H=01 19 11.9,
	eipP	32 33	h=133 km(ISC), m=5.3 ISC, Dc=89.6°, TPV=1.4 s,
	eiPP	35 30	A=35.4 mu, mPV=5.3(sp).
10	eiPg	12 54 20	D=1.6°.
	iSg	54 42	
10	iPg	13 59 41.0	D=1.4°.
	ei	59 53	
	iSg	59 58.2	
11	eP	14 18 40	Japan 33.7°N 137.2°E, H=14 06 18.0, h=27 km(ISC), m=4.9 ISC, Dc=82.4°.
11	eiP	14 28 52.6	C. Japan 33.8°N 137.2°E, H=14 16 31.9, h=27 km
	ei	29 25	(ISC), m=5.4 ISC, Dc=82.4°, TPV=2.5 s, A=200.0 mu,
	ei	31 32.5	mPV=5.8(sp), LmH:16s 9.8 u, MLH=6.3.
	eSS	44 01	
	Lm	15 05	
	Lm	11	
12	ePKIKP	12 08 09	Fiji Islands 20.6°S 178.4°W, H=11 49 24.4, h= 566 km(ISS), m=4.4 USCOS, Dc=150.0°.
12	e	13 04 43	
	eiSg	05 11.5	
12	ei	13 05 45	
	i	06 02	
	iSg	06 41	
13	eP	10 41 53	Virgin Islands 19.0°N 64.7°W, H=10 30 52.9, h=
	e	42 28	59 km, m=5.1 ISC, Dc=68.8°.
13	iP	10 52 58.0	C. Aleutian Islands 52.9°N 172.0°E, H=10 41 12.9,
	ei	53 06.5	h=21 km(ISC), m=5.7 ISC, Dc=75.7°, TPV=1.5 s,
	e	54 23	A=190.0 mu, mPV=6.0(sp), LmH:20 s, A=4.1 u, MLH=
	iPP	55 48	5.7.
	eL	11 21	
	Lm	28	

Date	Phase	h m s	Remarks
13	ei	12 44 51.5	
	i(Sg)	45 19.5	
	ei(Sg)	46 18	
13	eiPg	12 49 31	D=1.6°.
	eiSg	49 53.5	
14	ePKIKP	00 02 14	Tonga Islands 15.4°S 173.6°W, H=23 42 48.0, h= 98 km(ISC), m=4.4 ISC, Dc=144.8°.
14	e	02 17 15	Greece 36.8°N 23.1°E, H=02 14 05, h=25 km(ISC), M=4.4 ISC, Dc=14.6°.
14	eiPg	10 48 46	D=1°.
	eiSg	48 58.5	
14	e	12 59 52	
	eiSg	13 00 27	
	eiSg	01 28	
14	eiP	18 43 36.8	Crete 34.7°N 27.0°E, H=18 39 31.0, h=22 km(ISC),
	e	44 24	m=4.5 ISC, Dc=17.8°.
15	eiPKIKP	11 16 25	Tonga Islands 20.3°S 174.6°W, H=10 56 36.8, h= 33 km(ISC), m=4.5 ISC, Dc=149.5°.
15	eiP	12 11 06.5	Gulf of Alaska 59.5°N 144.5°W, H=11 59 59.2,
	ei	11 39	h=33 km(ISC), m=5.1 ISC, Dc=69.6°, LmH:14 s,
	eS	20 20	1.4 u, MLH=5.4, LmV:14s 0.7 u.
	eL	42	
	Lm	47.6	
15	eiPn	13 00 04	D=1.5°.
	iPg	00 05	
	iSn	00 22.5	
	iSg	00 24.5	
	Lm	00 53	
15	eP	18 11 17	Aegean Sea 36.7°N 23.1°E, H=18 07 46.5, h=
	ei	11 24	37 km(ISC), m=4.7 ISC, Dc=14.6°.
16	eSg	06 55 02	Belgium 50.5°N 4.3°E, H=06 51 35 (BCIS), Dc= 6.6°.
16	eiP	07 19 44.5	Nicobar Islands 9.0°N 93.9°E, H=07 07 56.2, h= 33 km(ISC), m=5.0 ISC, Dc=76.3°.
16	iP	09 23 35.2	Aleutian Islands 52.9°N 172.0°E, H=09 11 47.5,
	ei	23 42.5	h=8 km(ISC), m=5.5 ISC, Dc=75.8°, TPV=1.0 s,
	ei	24 23	A=64.0 mu, mPV=5.7(sp).
16	e(Pn)	12 34 31	Belgium 50.6°N 4.2°E, H=12 32 48.0, h=8 km(ISC),
	i	34 32.5	m=4.2 USCGS, Dc=6.6°.
	i	34 35.2	

Date	Phase	h m s	Remarks
16	eiPg	12 34 56	
	ei	35 09	
	ei(Sn)	35 42.5	
	ei(Sg)	36 15	
	Lm	36 33	
16	eiP	18 56 17	Mediterranean Sea 33.2°N 26.1°E, H=18 52 01.1,
	ei	56 52	h=33 km(ISC), m=4.7 ISC, Dc=18.8°, TPV=1.2 s,
	ei	57 13	A=39.4 mu, mPV=4.5 (sp).
16	eiP	19 56 09.3	Komandorsky Islands 54.9°N 165.9°E, H=19 44 41.0, h=22 km(ISC), m=5.3 ISC, Dc=72.7°, TPV=1.0 sec, A=18.0 mu, mPV=5.2(sp).
16	eiP	20 19 19.3	C. Mediterranean Sea 35.6°N 25.8°E, H=20 15 30.0,
	e	20 21	h=47 km(ISC), m=4.6 ISC, Dc=16.6°, TPV=1.0 s, A=12.1 mu, mPV=4.0(sp).
16	eiPKIKP	22 04 48	Fiji Islands 17.6°S 176.7°W, H=21 45 48.1, h= 356 km(ISC), m=4.2 ISC, Dc=146.5°.
16	eP	23 54 09	Japan 37.0°N 141.1°E, H=23 41 57.8, h=61 km(ISC), m=4.6 ISC, Dc=81.4°.
17	eiPg	08 00 31	Explosion of 7.3 Tons 50°23.6'N 13°13.4'E, Dc=
	i	00 36.5	104 km.
	iSg	00 42.5	
17	eP	08 42 15	Albania 40.1°N 20.6°E, H=08 39 42.6, h=46 km (ISC), m=4.7 ISC, Dc=10.8°.
17	e	12 46 05	
	eiSg	46 28	
17	iPKP	18 08 46.6	D. Fiji Islands 20.9°S 178.5°W, H=17 50 01.0,
	eiPKP2	08 53	h=564 km(ISC), m=5.0 ISC, Dc=149.2°.
17	eiP	19 08 13	D. Aleutian Islands 52.1°N 171.1°W, H=18 56 15, h=30 km(ISC), m=4.7 ISC, Dc=78.2°.
18	eiP	01 25 38	Ryukyu Islands 29.3°N 130.5°E, H=01 13 16.6,
	eiPcP	25 47.5	h=36 km(ISC), m=5.3 ISC, Dc=82.8°, LmH:18s
	eL	57	1.8 u, MLH=5.5.
	Lm	02 06	
18	eiPKIKP	06 46 15	D. Fiji Islands 18.8°S 177.6°W, H=06 27 14.9,
	ei	47 55	h=385 km(ISC), m=5.2 ISC, Dc=147.4°.
	eisPKIKP	48 14	
18	ePg	10 49 43	Poland 50.3°N 19.0°E, H=10 48 47.6, m=2.9 WAR,
	ei	50 15.5	Dc=2.9°.
18	e	12 32 49	
	eiSg	33 03.5	

Date	Phase	h m s	Remarques
18	e	13 42 40	
	eiSg	43 03	
18	eiP	18 47 27.4	Nuclear Explosion "Lampblack" 37.1°N 116.1°W, H=18 35 03.3, h=31 km(ISC), m=5.2 ISC, Dc=82.9°.
18	e	20 23 13	Rumania 45.9°N 26.8°E, H=20 20 27.0, h=93 km(ISC),
	e	25 31	m=4.7 ISC, Dc=9.2°.
18	eiP	21 23 50.5	C. Crete 35.1°N 23.5°E, H=21 20 02.6, h=60 km
	ei	24 07	(ISC), m=4.5 ISC, Dc=16.2°, TPV=1.1 s, A=26.0 mu, mPV=4.3(sp).
19	ei	07 02 39	France 45.9°N 6.6°E, H=07 00 31, h=0 km(ISC),
	eiPg	03 41.7	Dc=6.7°.
	ei	04 07	
	ei(Sg)	04 13.5	
19	eiPg	09 59 56.7	
	eiSg	10 00 24.7	
19	eiPKP	14 04 44.7	20.7°S 178.5°W, H=13 46 02.7, h=598 km(ISC), m=4.5 ISC, Dc=149.0°.
20	eiP	01 56 53.5	Japan 37.9°N 138.1°E, H=01 44 50.1, h=37(ISC),
	e	57 04	m=5.3 ISC, Dc=79.3°, LmH:12 s, 1.5 u, MLH=5.6.
	eL	02 30	
	Lm	36.5	
20	eiP	08 57 36	
20	ei	09 56 28.5	
20	iP	14 57 50.1	C. Aleutian Islands 53.0°N 171.7°E, H=14 46 05,
	eiPcP	58 04.5	h=22 km(ISC), m=5.3 ISC, Dc=75.6°, TPV=0.8 s, A=31.4 mu, mPV=5.5(sp).
20	eiPKIKP	15 21 29	Samoa Islands 15.3°S 172.9°W, H=15 01 54.4, h=
	ei	21 47	33 km, m=5.0 ISC, Dc=144.9°.
20	eiP	16 16 18.5	Kurile Islands 43.9°N 147.5°E, H=16 04 23.7,
	eiPcP	16 33.5	h=51 km(ISC), m=4.5 ISC, Dc=77.9°.
20	eiP	16 44 19	Aleutian Islands 52.4°N 169.6°W, H=16 32 19,
	ePcP	44 37	h=9 km(ISC), m=4.9 ISC, Dc=78.0°.
20	eP	23 49 22	Taiwan Region 22.9°N 121.4°E, H=23 37 01.3,
	ei	49 29	h=55 km(ISC), m=4.9 ISC, Dc=82.9°.
21	eiPKHKP	01 51 07.5	South of Fiji Islands 23.9°S 179.9°E, H=01 32 17.8, h=579 km(ISC), m=4.4 ISC, Dc=151.6°.
21	eiP	09 55 23	Japan 43.1°N 145.8°E, H=09 43 28.9, h=56 km(ISC),
	eiPcP	55 40	m=4.8 ISC, Dc=78.0°.

Date	Phase	h m s	Remarks
21	iPg	11 01 04.6	D=1.1°.
	iSg	01 19.6	
	L	01 22	
	Lm	01 27	
21	e	12 58 18	
	iSg	58 39.0	
21	iPg	12 59 47.3	D=80 km. Explosion?
	iSg	59 57.5	
	Lm	13 00 02	
	Lm	00 15	
21	iPg	13 02 13	Explosion of 11.7 Tons 49°00'N 14°32'E, Dc=
	i	02 15.0	108 km.
	iSg	02 26	
	Lm	02 35	
21	e	13 19 15	
	eiSg	19 47	
21	eP	18 33 12	West of Colombia 5.6°N 77.6°W, H=18 20 26, h= 22 km(ISC), m=4.7 ISC, Dc=87.2°.
22	eP	00 27 37	Turkey 37.7°N 30.0°E, H=00 23 44.3, h=32 km(ISC),
	ei	27 42	m=4.8 ISC, Dc=16.6°, LmH:15 s 4.1 u, MLH=4.7.
	ei	29 03.5	
	eL	32	
	Lm	33.4	
22	ePg	00 29 22	
	e	29 57	
22	ePKP2	04 15 17	Kermadec Islands 29.1°S 172.6°W, H=03 54 50.9, h=
	e	15 29	27 km(ISC), m=5.0 ISC, Dc=158.4°.
22	eiP	05 04 32.7	Greece 30.1°N 21.6°E, H=05 01 38.1, h=0 km(ISC), Dc=12.0°.
22	iPg	07 45 14.5	D=2.1°.
	i	45 17.0	
	i	45 39	
	iSg	45 41	
22	eiP	07 49 27	Mexico 17.4°N 94.1°W, H=07 36 49.4, h=138 km(ISC), m=4.9 ISC, Dc=88.3°.
22	iPg	10 39 15.0	D=1.1°.
	iSg	39 30.0	
	Lm	39 46	
22	iPKIKP	11 19 38.0	Fiji Islands 18.1°S 178.4°W, H=11 01 05.3, h=
	iPKP	19 40.5	603 km(ISC), m=5.0 ISC, Dc=146.3°.
	ei	20 05	

Date	Phase	h m s	Remarks
22	iPn	13 30 44.0	
	iPg	30 45.0	
	i	30 57.5	
	i	31 00.0	
	iSg	31 01.0	
22	iP	14 38 41.3	C. South of Alaska 56.0°N 153.8°W, H=14 27 07.9,
	i	38 58.5	h=30 km(ISC), m=5.6 ISC, Dc=73.9°, TPV=1.7 s,
	ei	39 13.7	A=102.9 mu, mPV=5.6(sp), LmH=18 s 6.2 u, MLH=
	eiS	48 15	5.9.
	ei	48 47	
	eiSS	53 21	
	eiSSS	57 01	
	eL	15 05	
	Lm	19	
22	iPKP2	19 56 22.0	C. Tonga Islands 21.0°S 174.1°W, H=19 36 31.9,
	ei	56 41	h=33 km(ISC), m=4.9 ISC, Dc=150.3°.
23	eiPn	01 32 37.5	Italy 46.0°N 11.9°E, H=01 31 29, h=16km(ISC),
	i	32 44	m=3.8 USCGS, Dc=4.4°.
	ei	32 51.5	
	eiSn	33 27	
	i	33 43	
	Lm	33 57	
23	eiP	02 08 45.5	New Mexico 37.0°N 107.0°W, H=01 56 39, h=13 km
			(ISC), m=5.1 ISC, Dc=79.2°.
23	ei	11 47 13	
	eiSg	47 37	
23	eiPn	14 49 26	Poland 50.3°N 19.0°E, H=14 48 43.2(WAR), m=
	ei	49 31	3.2 WAR, Dc=2.9°.
	eiSn	50 08	
	eiSg	50 13	
23	eiP	23 21 32.8	Japan 35.7°N 140.7°E, H=23 09 15.9, h=60 km(ISC),
	eiPcP	21 47	m=4.7 ISC, Dc=82.3°.
24	eiP	02 23 21.5	Afghanistan 36.7°N 67.5°E, H=02 15 29.4, h=
	ePP	25 03	43 km(ISC), m=4.9 ISC, Dc=42.4°.
24	eiP	15 41 13	West Pakistan 29.9°N 69.7°E, H=15 32 51, h=
	e	41 29	14 km(ISC), m=5.0 ISC, Dc=45.7°.
24	e	18 50 10	
24	e	21 19 29	
	eiSg	20 04.2	
25	eiP	06 01 09.5	
25	eiPg	13 55 59.2	D=1.4°.
	eiSg	56 16	

Date	Phase	h m s	Remarks
25	e(P)	18 19 42	Borneo 1.9°N 118.1°E, H=18 06 00, h=74 km(ISC),
			m=5.1 ISC, Dc=97.3°.
26	eiPn	10 50 16.5	D=1.1°.
	iPg	50 18.0	
	eiSg	50 31	
26	eiPg	11 27 23.5	D=2°.
	ei	27 47.5	
	iSg	27 51	
26	eP	11 30 52	Philippine Islands 19.9°N 121.3°E, H=11 18 18.5,
	ei	31 03.5	h=60 km(ISC), m=5.0 ISC, Dc=85.3°.
26	ePg	12 00 01	D=1.5°.
	eiSg	00 21	
26	ePKIKP	13 23 23	Tonga Islands 15.4°S 174.8°W, H=13 04 15.7, h=
			249 km(ISC), m=4.0 ISC, Dc=144.7°.
26	ePKIKP	15 49 46.5	New Hebrides Islands 14.3°S 167.3°E, H=15 30 42.7,
			h=208 km(ISC), m=4.8 ISC, Dc=138.1°.
26	ePKP2	19 21 11	Tonga 19.6°S 173.1°W, H=19 01 17, h=33 km(ISC),
	e	21 22	m=4.8 ISC, Dc=149.0°.
26	ei(Pg)	21 23 28	
	e	24 04	
26	iPg	22 14 49.1	
	ei	15 21	
	ei	15 23.5	
27	ePKP	02 20 12.5	Fiji Islands 18.0°S 178.4°W, H=02 01 35, h=587 km
			(ISC), m=5.0 ISC, Dc=146.5°.
27	e	06 59 59	Explosion.
	eiSg	07 00 10	
27	eP	12 12 25	Japan 39.7°N 141.0°E, H=12 00 30.8, h=106 km(ISC),
	epP	12 52	m=4.8 ISC, Dc=79.1°.
27	eiPg	12 50 55	D=1.6°.
	eiSg	51 17	
27	e	12 51 56	
	eiSg	52 15.5	
27	iPg	13 00 28.3	D=1.6°.
	iSg	00 50.8	
27	eiP	19 51 01.5	Aleutian Islands 51.3°N 178.3°E, H=19 39 05.9,
	e	51 26	h=38 km(ISC), m=5.3 ISC, Dc=78.1°.

Date	Phase	h m s	Remarks
27	eP	23 32 52	
28	eiPKIKP eipPKIKP ei	04 55 20.5 57 28.5 57 49.5	D. Fiji Islands 17.6°S 177.0°E, H=04 36 45.3, h=545 km(ISC), m=5.2 ISC, Dc=144.8°.
28	eiPKIKP eiPP ei eiSS Lm Lm	06 01 45 04 52 05 37 23 25 07 00.5 02.5	New Hebrides Islands 17.0°S 168.5°E, H=05 42 14, h=4 km(ISC), m=5.6 ISC, Dc=141.0°.
28	eiP ei eiPP	08 59 53 09 00 13.6 01 34	Tadzhik - Sinkiang border region 39.3°N 73.0°E, h=41 km(ISC), m=5.1 ISC, Dc=41.9°, TPV=1.2 s, A=21.1 mu, mPV=4.7 (sp).
28	eiPKP	09 46 11.6	Fiji Islands 18.0°S, 178.5°W, H=09 27 34.8, h=586 km(ISC), m=5.2 ISC, Dc=146.4°.
28	ei(Sg) Lm	10 30 06.8 30 15	
28	e eiSg Lm	12 00 21 00 41.1 00 56.5	
28	eiSg	12 51 05	
28	e	12 54 26	Greece 39.1°N 21.6°E, H=12 50 22 (ATH), Dc=12.0°.
28	ei eiSg	12 56 31 56 59	
28	eiPg ei ei eiSg Lm	17 54 37 55 07 55 38 55 55 56 06	Switzerland 46.6°N 7.6°E, H=17 52 49(BCIS), Dc=5.7°.
28	eiP ei ei	22 49 36 50 26 51 29	Kamchatka 51.6°N 157.0°E, H=22 38 14.2, h=124 km(ISC), m=5.5 ISC, Dc=73.9°. TPV=1.5 s, A=52.5 mu, mPV=5.1(sp).
29	e e	05 45 15 45 41	
29	eiP eipP	08 04 03.3 04 15.7	Kurile Islands 45.5°N 151.6°E, H=07 52 08.2, h=41 km(ISC), m=4.7 ISC, Dc=77.8.
29	eP	14 53 22	Mexico-Guatemala Border Region 16.2°N 91.5°W, H=14 40 29, h=26 km(ISC), m=4.9 ISC, Dc=87.7°.
29	eP	16 21 25	California 41.6°N 127.5°W, H=16 08 56.9, h=0 km (ISC), m=4.8 ISC, Dc=82.9°.

Date	Phase	h m s	Remarks
30	eP	06 49 57	Greece 38.9°N 21.7°E, H=06 47 03, h=48 km(ISC), m = 4.6 ISC, Dc=12.2°.
30	eiPKIKP ei	11 24 38.2 24 47	Loyalty Islands region 22.1°S 170.1°E, H= 11 05 02, h=35 km(ISC), m=5.2 ISC, Dc=146.2°.
30	eiPn eiPg iSg	11 59 08.3 59 09.8 59 33.8	D=2°.
30	iPg iSg Lm	21 20 17.9 20 31.9 20 35	D=1.1°.
31	eiP	02 45 52	China 27.9°N 99.7°E, H=02 35 03, h=9 km(ISC), m=5.1 ISC, Dc=66.1°, TPV=1.2 s, A=26.1 mu, mPV=5.3(sp).
31	eP	04 33 52	Greece 39.1°N 21.9°E, H=04 30 57.0, h=51 km(ISC), m=4.5 ISC, Dc=12.1°.
31	eiPKIKP	06 27 39	Loyalty Islands 21.9°S 170.1°E, H=06 08 03, h=32 km(ISC), Dc=146.0°.
31	eiPKIKP ei	08 53 18 53 29.5	C. Loyalty Islands 22.1°S 170.0°E, H=08 33 40.9, h=25 km(ISC), m=5.1 USCGS, Dc=146.1°.
31	e eiSg	11 01 15.5 01 36	
31	eP e	14 15 16 32 42	Argentina 24.9°S 64.5°W, H=14 01 22, h=20 km(ISC), m=4.4 ISC, Dc=78.8°.

Date	Phase	h m s	Remarks
1	eP	06 05 23	Central Kazakh 42.0°N 66.2°E, H=05 58 23.6, h= 42 km(ISC), m=4.7 ISC, Dc=36.1°.
1	eP	07 13 34	Iran-Iraque border region 34.9°N 46.1°E, H= 07 07 54.2, h=86 km(ISC), m=4.6 ISC, Dc=27.5°.
1	eP	16 11 36	Kurile Islands 45.3°N 150.1°E, H=15 59 45.4, h= 59 km(ISC), m=4.6 ISC, Dc=77.6°.
1	ePKP	18 15 16	South of Fiji Islands 23.7°S 180.0°E, H=17 56 21.6, h=524 km(ISC), m=4.6 ISC, Dc=151.4°.
2	eiPn ei eiPg eiSn i(Sg)	02 26 22.8 26 29 26 37 27 08 27 26.0	Italy 46.3°N 12.7°E, H=02 25 23, h=0km(ISC), Dc=3.9°.
2	ePn eSn ei(Sg)	02 33 12 33 58 34 16	Aftershock H=02 32 15(BCIS).
2	eiPKP ei	05 53 44.3 53 55	Tonga Islands 17.7°S 173.2°W, H=05 34 10, h= 104 km(ISC), m=5.1 ISC, Dc=147.2°.
2	eiP	06 36 12.3	
2	eiP ePP	09 28 27.3 30 15	West Pakistan 33.9°N 73.2°E, H=09 20 09.3, h= 37 km(ISC), m=5.0 ISC, Dc=45.3°.
2	e	15 39 01	e 59 53.
2	iPKP1 eiPKP2	17 29 58.9 30 24.5	Fiji Islands 21.6°S 176.8°W, H=17 10 38.5, h= 271 km(ISC), m=4.4 ISC, Dc=150.3°.
2	ei ei ei	22 27 14 27 49 27 55	
3	iPKHKP eiPKP2	02 30 51.0 30 57.6	C. Fiji Islands 21.0°S 178.3°W, H=02 11 57.5, h= 487 km(ISC), m=4.3 ISC, Dc=149.3°.
3	eiP	02 31 13	Kurile Islands 49.6°N 154.6°E, H=02 19 43.8, h= 136 km(ISC), m=4.4 ISC, Dc=75.0°, TPV=1.0 s, A=15.1 mu, mPV=4.7(sp).
3	eiP e sP ei eiPP	06 01 46 02 46 04 45 06 03	C. Northern Celebes 0.1°N 123.5°E, H=05 48 11.6, h=180 km(ISC), m=5.7 ISC, Dc=102.0°, TPV=1.6 s, A=39.4 mu, mPV=5.7(sp).
3	iP ei eisP	12 11 15.0 11 24.5 11 43	D. Philippine Islands 16.7°N 119.9°E, H=11 58 36, h=71 km(ISC), m=5.3 ISC, Dc=86.9°, TPV=1.2 s, A=61.5 mu, mPV=5.6(sp).

Date	Phase	h m s	Remarks
3	e eiSg	12 48 52 49 16.5	
3	eP ei	13 26 08 26 10	Sicily 38.5°N 14.9°E, H=13 23 28.5, h=242 km(ISC), m=4.3 ISC, Dc=11.5°.
3	eiP ei	17 23 38 23 48	Taiwan 24.1°N 121.9°E, H=17 11 20.1, h=36km(ISC), m=5.1 ISC, Dc=82.3°, TPV=1.5 s, A=23.5 mu, mPV= 5.1(sp).
3	eiP ei	17 33 26 33 35.5	Taiwan 24.3°N 121.7°E, H=17 21 10.1, h=47 km(ISC), m=5.0 ISC, Dc=82.0°.
3	e ei	18 10 13 10 22.5	Taiwan region 24.2°N 121.9°E, H=17 57 43.8, h= 45 km(ISC), m=4.8 ISC, Dc=82.0°.
4	e	02 59 30	
4	eiPKIKP eipPKIKP	04 22 20.5 22 39	Tonga Islands 15.5° S 173.3°W, H=04 02 52, h= 83 km(ISC), m=4.7 ISC, Dc=145.0°.
4	eiPKHKP ei	05 24 15 24 46.5	Tonga Islands 21.5°S 174.0°W, H=05 04 21.9, h= 7 km(ISC), m=4.5 ISC, Dc=150.7°.
4	eiP ei Lm	08 42 03 42 46.5 50	Mediterranean Sea 34.4°N 23.9°E, H=08 38 03, h= 33 km(ISC), m=4.7 ISC, Dc=17.1°, LmN:11 s 2 u, MLH=4.0.
4	eiPKP2	10 10 49.5	Tonga 21.3°S 174.6°W, H=09 51 09.0, h=116 km (ISC), m=3.9 ISC, Dc=150.5°.
4	ePKP eisPKP ei iSKP e ei Lm	10 58 13 59 30 11 01 05 01 36 08 15 09 20 49.5	New Hebrides Islands 15.9°S 167.9°E, H=10 39 11.5, h=183 km(ISC), m=5.6 ISC, Dc=139.8°, LmH:20s 2.2 u, MLH=6.3.
4	eP	11 10 10	
4	ePg eiSg	12 49 26 49 46.5	D=1.5°.
4	eiPg eiSg	14 02 21 02 46	D=2°.
4	ePKP2 ei	15 56 22 56 29	Tonga Islands 21.5°S 174.1°W, H=15 36 33.8, h= 55 km(ISC), m=4.9 ISC, Dc=150.8°.
4	eP	18 09 32	North Atlantic Ridge 17.6°N 46.5°W, H=17 59 39.8, h=33 km(ISC), m=4.2 ISC, Dc=58.2°.
4	eiP	21 06 18.0	D. South China Sea 12.4°N 114.3°E, H=20 53 31, h=7 km(ISC), m=4.9 ISC, Dc=86.8°.

Date	Phase	h m s	Remarks
5	iP	02 04 36.5	C.N.W. Greece 39.1°N 21.7°E, H=02 01 45.3, h=
	i	05 05.5	16 km(ISC), m=5.6 ISC, Dc=12.0°, TPV=2.0 s, A=
	iS	06 49	396.0 mu, RmH:14s 155 u, MLH=6.1, RmV:14 s 72 u,
	Q	08.5	SH:10 s 6.4 u, SV:10 s 2.2 u.
5	eiP	03 00 50	Aftershock 39.1°N 21.9°E, H=02 58 01.2, h=50 km
	ei	00 57.5	(ISC), m=5.0 ISC, Dc=12.1°.
	eiS	03 05.5	
	ei	03 14	.
	Lm	06	
5	eiPg	10 25 29.5	D=1°.
	iSg	25 42	
5	ePg	12 32 14	
	ei	32 17.5	
	ei	32 42.5	
	ei	32 50	
5	e	14 28 46	
	ei	29 21	
	ei	29 24	
5	eiP	14 36 13.2	C. Kamchatka 52.6°N 158.9°E, H=14 24 48.6, h=
			76 km(ISC), m=5.0 ISC, Dc=73.4°, TPV=1.0 s, A=
			15.1 mu, mPV=4.9(sp).
5	iP	15 23 40.2	D. China 26.2°N 103.2°E, H=15 12 32.9, h=32 km
	i	23 43.2	(ISC), m=5.6 ISC, Dc=69.6°, QmH:32 s 20 u, RmH:
	eiPP	26 14	22 s 35 u, MLH=6.6.
	eisS	32 54	
	e	40 20	
	Q	47	
	Qm	50	
	Rm	51.5	
5	iP	16 27 31.7	C. Kurile Islands 50.0°N 155.4°E, H=16 16 03.9,
	eipP	28 06.5	h=121 km(ISC), m=5.8 ISC, Dc=74.9°, TPV=1.7 s,
	ei	28 38	A=617.6 mu, mPV=6.1(sp).
	eipPP	30 52	
5	eiPg	22 13 54	D=3°.
	eSg	14 32	
6	eiP	09 24 31.2	D. China 26.2°N 103.2°E, H=09 13 22, h=17 km
			(ISC), m=5.1 ISC, Dc=69.5°, TPV=1.2 s, A=28.0 mu,
			mPV=5.3(sp).
6	eP	10 28 47	California 40.2°N 127.6°W, H=10 16 11.2, h=
			0 km(ISC), m=4.8 ISC, Dc=84.2°.
6	eiPg	10 55 29.7	D=1.5°.
	iSg	55 48.7	
6	eP	21 35 47	Kurile Islands 46.0°N 153.4°E, H=21 23 54.6, h=
			64 km(ISC), m=4.3 ISC, Dc=78.0°.

Date	Phase	h m s	Remarks
6	iP	23 39 07.6	C. Southern Alaska 60.4°N 152.3°W, H=23 28 06.6,
	eipP	39 28	h=78 km(ISC), m=5.1 ISC, Dc=69.5°, TPV=1.2 s,
			A=36.6 mu, mPV=5.2(sp).
7	eiP	04 34 32.5	C. West Pakistan 29.9°N 69.7°E, H=04 26 11.5, h=
	i	34 40.3	10 km(ISC), m=5.7 ISC, Dc=45.6°. QmH:28s 20 u,
	i	34 56.3	RmH:20 s 47 u, MLH=6.5, RmH:14s 26 u, RmV:14 s
	ei	36 48	8.5 u.
	eiPPP	37 06.3	
	ei	37 24	
	eiS	41 18	
	ei	42 38	
	ei	45 28	
	Q	50	
	Qm	53	
	Rm	55	
	Rm	58.4	
7	eiP	05 30 08.5	C. West Pakistan 30.1°N 69.9°E, H=05 21 46, h=
	ei	30 38	10 km(ISC), m=5.2 ISC, Dc=45.7°, TPV=1.2 s,
			A=30.5 mu, mPV=5.2(sp).
7	eiP	05 38 38.5	West Pakistan 30.0°N 69,9°E, H=05 30 16.1, h=
	eiPP	40 27.5	23 km(ISC), m=5.2 ISC, Dc=45.7°.
7	ei	09 31 11	Yugoslavia 45.0°N 16.9°E, H=09 29 41, h=0 km(ISC),
	ei	32 14	Dc=5.3°.
7	i	09 32 56.2	C. E. of North Isl. N.Z. 95.5°S 179.0°W, H=
	eiPKP2	33 22	09 12 50, h=141 km (ISC), Dc=162.4°.
7	iPn	12 04 30.7	C. Explosion of 29.4 Tons, Czechoslovakia
	iPg	04 31.7	51.0°N 14.24° E(CLL), H=12 04 (ISC), Dc=1°.
	eiSn	04 44.5	
	iSg	04 46.7	
	Lm	05 03	
7	eiPg	12 39 42.2	D=1.6°.
	iSg	40 04.2	
7	ei	21 11 32	
	ei	12 10.7	
7	eiP	23 14 57	C. West Pakistan 30.3°N 69.9°E, H=23 06 37.4, h=
	ei	15 16.5	28 km(ISC), m=5.6 ISC, Dc=45.5°, TPV=1.5 s, A=
	eiPcP	16 35	135.5 mu, mPV=5.8(sp), QmH:28s 23 u, RmH:20 s
	eiS	21 38	29 u, MLH=6.3.
	ei	22 30	
	ei(SS)	25 08	
	Q	31.5	
	Qm	33.5	
	Rm	36	
8	eSn	01 19 27	Italy 44.5°N 10.0°E, H=01 16 46(BCIS), Dc=6.3°.
	eiSg	20 13.8	

Date	Phase	h m s	Remarks
8	ePKIKP	04 30 21	Loyalty Islands 21.6°S 169.0°E, H=04 10 45, h= 26 km(ISC), m=4.6 ISC, Dc=145.2°.
8	iPKP1 eiPKP2	10 20 58.3 21 06	D. Fiji Islands 21.2°S 178.5°W, H=10 02 09.1, h= 624 km(ISC), m=4.8 ISC, Dc=149.5°.
8	ei(Pg) eiSg	12 51 32.3 51 51.5	
8	eiP ei	13 20 14.7 20 24.5	Mediterranean Sea 36.2°N 26.1°E, H=13 16 22.2, h=79 km(ISC), m=4.6 ISC, Dc=16.9°, TPV=1.0 s, A= 40.0 mu, mPV=4.6(sp).
8	eP e ei Lm	20 10 47 12 19 13 17 14.8	Greece-Bulgaria border region 41.1°N 25.0°E, h=21 km(ISC), m=4.7 ISC, Dc=11.5°, LmE:12 s 1.8 u, MLH=4.3.
8	e	22 50 57	
9	eL Lm	01 44.6 50.5	Mexico 14.3°N 93.1°W, H=00 55 19.6, h=46 km(ISC), m=4.9 ISC, Dc=90.0°, LmE:19s 1.4 u, MLH=5.5.
9	e eiPS e e eL Lm Lm	05 00 30 09 14 15 14 19.0 27 38 45	S. Sandwich Islands 56.8°S 25.7°W, H=04 40 29.0, h=27 km(ISC), m=5.6 ISC, Dc=111.5°, LmH:27s 6 u, LmH:18s 5.6 u, MLH=6.2.
9	eiPg eiSg	13 50 00 59 29.5	D=2.3°.
9	eiPg eiSg	13 59 54 14 00 21.5	D=2.2°.
9	eP	14 55 47	Sea of Japan 37.3°N 135.0°E, H=14 44 24.0, h= 365 km(ISC), m=4.8 ISC, Dc=78.5°.
9	eP	15 27 19	Near coast of Peru 15.4°S 75.4°W, H=15 13 28.4, h=41 km(ISC), m=5.4 ISC, Dc=101.5°.
9	eiP ei	23 45 34 45 57.5	Japan 32.6°N 141.6°E, H=23 33 00.9, h=48 km(ISC), m=4.7 ISC, Dc=85.3°.
10	e	01 45 03	
10	iP ei ePP eL Lm	05 41 55.5 42 16 45 18 06 15 22	C. Japan 31.1°N 141.8°E, H=05 29 12, h=23 km(ISC), m=5.3 ISC, Dc=86.7°, TPV=1.8 s, A=42.1 mu, mPV= 5.4(sp), LmH:17s 2.1 u, MLH=5.6.
10	eiP ePcP	12 50 21.7 50 31.5	Kodiak Island 56.6°N 153.4°W, H=12 38 52.0, h= 33 km(ISC), m=4.8 ISC, Dc=73.3°

Date	Phase	h m s	Remarks
10	eiPg eiSg	12 52 53.2 53 16.7	
10	eP	13 24 39	Greece 39.0°N 21.7°E, H=13 21 45.9, h=39 km(ISC), m=4.4 ISC, Dc=12.2°.
10	ei eiSg	14 33 21.3 34 08.2	
10	eiP ei ei eiPP ei ei eiSKS ei eiSS ei Q Qm Rm	14 34 42.7 34 58.2 37 43 38 39.5 41 08 45 36 46 18 52 20 52 48 15 00 12 06.5 10 14.8	C. Mariana Islands 20.7°N 146.3°E, H=14 21 09, h=29 km(ISC), m=5.8 ISC, Dc=97.7°, TPV=1.2 s, A=19.4 mu, mPV=5.7(sp), QmH:33 s 21 u, RmH:22 s 16 u, MLH=6.5.
10	eiPKIKP ei	15 17 53 18 04.5	Tonga Islands 19.3°S 172.9°W, H=14 58 03.6, h= 12 km(ISC), m=4.9 ISC, Dc=148.9°.
10	e	20 24 17	
10	eiP eipP	20 25 04.5 25 48	D. Kurile Islands 47.1°N 150.9°E, H=20 13 34.4, h=170 km(ISC, m=5.1 ISC, Dc=76.2°.
11	e e	05 43 25 47 20	Greece 39.1°N 21.5°E, H=05 40 23.1, h=0 km(ISC), m=3.8 ATH, Dc=12.0°.
11	iPg iSg Lm	13 00 25.6 00 37.2 00 47	Explosion of 3.1 Tons 49°41.2′N 13°28.1′E, Dc= 84 km.
11	e ei eiSg	13 03 09 03 22 03 44.7	
12	eiPKIKP i	11 58 47 58 57.1	Tonga Islands 18.4°S 174.7°W, H=11 39 27.0, h= 201 km(ISC), m=5.7 ISC, Dc=147.6°.
12	eiP e e Lm	13 39 14 40 28 41 41 43.8	Greece 38.8°N 21.4°E, H=13 36 22.2, h=46 km(ISC), m=4.8 ISC, Dc=12.2°, LmH:10 s 1.8 u, MLH=4.4.
12	iP ePP	16 41 50.7 43 32	D. Afghanistan-USSR border region 36.7°N 71.5°E, H=16 34 10.8, h=175 km(ISC), m=4.8 ISC, Dc=42.5°, TPV=1.0 s, A=18.4 mu, mPV=4.7(sp).

Date	Phase	h m s	Remarks
12	eiPg	23 44 18.7	Switzerland 46.5°N 9.2°E, H=23 42 53, h=0 km(ISC)
	eiSg	45 22.5	Dc=5.0°.
13	iP	05 05 35.2	C. Kazakh 49.8°N 78.1°E, H=04 57 57.9, h=0 km
	eiPP	07 05.7	(ISC), m=6.1 ISC, Dc=39.7°, TPV=1.0 s, A=
	eiPcP	07 45.5	333.3 mu, mPV=5.9(sp), LmE:14 s 1.1 u, MLH=5.0.
	ei	19 07	
	Lm	22.5	
13	ei	10 53 31	
13	eiP	10 55 49.5	China 26.2°N 103.3°E, H=10 44 38, h=6 km(ISC),
	i	55 54	m=5.4 ISC, Dc=69.6°, TPV=1.0 s, A=61.0 mu,
	eiPP	58 19	mPV=5.7(sp), QmN:48 s 10 u, RmH:18 s 7.3 u,
	eiS	11 05 00	MLH=6.0.
	Q	19.5	
	Qm	21	
	Rm	23.5	
13	eP	13 28 53	Unimak Island 53.8°N 163.3°W, H=13 17 00.5,
			h=8 km(ISC), m=4.7 ISC, Dc=76.5°.
13	eP	19 18 06	West Pakistan 30.0°N 69.7°E, H=19 09 45.0, h=
	ei	18 32.8	9 km(ISC), m=4.9 ISC, Dc=45.6°.
	eL	38	
	Lm	43	
14	eP	05 49.25	West Pakistan 29.9°N 69.7°E, H=05 41 09, h=
			31 km(ISC), m=4.7 ISC, Dc=45.6°.
14	ePKIKP	06 32 26	South of Australia 50.6°S 139.8°E, H=06 12 49.9,
	ei	32 35	h=33 km(ISC, m=4.8 ISC, Dc=145.7°.
14	iP	18 01 52.2	Mediterranean Sea 35.0°N 27.1°E, H=17 54 50.1,
	ei	02 13.2	h=43 km(ISC), m=4.8 ISC, Dc=17.6°, TPV=1.0 s,
	i	02 19.7	23.0 mu, mPV=4.3(sp).
14	eP	20 19 47	Greece 38.6°N 21.4°E, H=20 16 58.0, h=39 km(ISC),
	e	20 11	m=4.4 ISC, Dc=12.2°.
	e	21 11	
15	ePKHKP	10 16 23	Tonga region 23.0°S 175.7°W, H=09 56 29, h=
	ei	16 30	21 km(ISC), m=4.8 ISC, Dc=151.9°.
15	ePKHKP	22 52 58	Fiji Islands 20.5°S 178.3°E, H=22 34 06.6, h=
	epPKIKP	55 19	609 km(ISC), m=5.0 ISC, Dc=153.4°.
16	eiPKHKP	03 37 51	New Hebrides 17.7°S 168.0°E, H=03 18 27.9, h=
	ePP	41 00	35 km(ISC), m=6.1 ISC, Dc=141.3°, LmH:22s 24 u,
	ei	42 13	MLH=6.8.
	eiSKKS	47 48	
	e	51.0	
	e	58.9	

Date	Phase	h m s	Remarks
	eL	04 25	
	Lm	36	
	Lm	40	
16	eiP	11 05 41.5	South Algeria 24°N 5°E, H=11 00 00(RBA), Dc=
			27.0°.
16	eiPg	12 54 56	D=1.7°.
	eiSg	55 19	
16	eiPg	12 56 19	D=2.4°.
	eiSg	56 49	
16	ePKIKP	23 56 49	Tonga Islands 18.2°S 173.6°W, H=23 37 06, h=
	ei	57 07	37 km(ISC), m=5.1 ISC, Dc=147.6°
17	e	07 40 39	
17	iPg	09 01 28.9	Explosion of 5.4 Tons 50°01.7′N 16°34.6′E,
	iSg	01 46.9	D=142 km.
17	iP	12 01 43.2	C. Mid-Indian Rise 32.2°S 78.9°E, H=11 47 57.3,
	iPP	05 44.7	h=7 km(ISC), m=6.0 ISC, Dc=99.7°. QmH:30s 7 u,
	eiSKS	12 21	MLH=6.0, RmH:20 s 3.2 u.
	ei	14 37	
	ei	19 01	
	eSSS	23.5	
	eL	36	
	Qm	39	
	Rm	56.7	
17	eiPn	12 18 20.2	Italy 45.0°N 11.1°E, H=12 16 59, h=34 km(ISC)
	ei	19 15	Dc=5.5°.
	ei	19 45.5	
17	eiPKP	18 39 24.8	D. Fiji Islands 23.5°S 180.0°W, H=18 20 31.8,
	ei	41 38	h=550 km(ISC), m=4.7 ISC, Dc=151.2°.
18	iP	00 40 05.3	C. Japan 36.5°N 140.6°E, H=00 27 53.0, h=66 km
			(ISC), m=5.1 ISC, Dc=81.6°, TPV=0.9 s, A=
			26.4 mu, mPV=5.2(sp).
18	eiPKP	05 17 41.5	West of Tonga 21.3°S 178.3°W, H=04 58 46.6, h=
			487 km(ISC), m=4.4 ISC, Dc=149.6°.
18	eiPg	08 55 42	Explosion of 7 Tons 49°44.5′N 13°00′E, Dc=112km.
	ei	55 52	
	eiSg	55 56	
18	e	09 14 17	
	eiSg	14 35	
18	eiPg	13 22 22	D=2.2°.
	eiSg	22 50.5	

Date	Phase	h m s	Remarks
18	eiP epP	19 14 16 15 19	Japan 44.3°N 143.2°E, H=19 02 51.3, h=221 km (ISC), m=5.1 ISC, Dc=76.0°.
19	e eSg	04 15 09 15 43	
19	eiPg iSg	08 51 33 51 33	D=1.5°.
19	ePg eiSg	09 56 34 56 56.5	D=1.6°.
19	e ei(Sg)	11 55 48 56 09	
19	eP ei	12 58 39 58 53	Hindu Kush 35.2°N 70.9°E, H=12 50 42.6, h=62 km(ISC), m=4.9 ISC, Dc=43.0°.
19	eP	23 00 44	Kurile Islands 44.0°N 147.2°E, H=22 48 52.5, h=67 km(ISC), m=4.7 ISC, Dc=77.7°.
20	eiP	06 09 38.2	East of Kamchatka 53.1°N 159.8°E, H=05 58 12.8, h=72 km(ISC), m=4.9 ISC, Dc=73.2°.
20	ePKIKP	06 30 31	West of Tonga 18.0°S 178.5°W, H=06 11 54.0, h=578 km(ISC), m=4.7 ISC, Dc=146.4°.
20	eiP	18 27 38.6	C. Kurile Islands 48.1°N 155.1°E, H=18 15 51.2, h=39 km(ISC), m=5.0 ISC, Dc=76.6°, TPV=1.0 s, A=32.0 mu, mPV=5.4(sp).
20	eiP	18 28 44	D. Kurile Islands 48.0°N 155.2°E, H=18 16 54, Dc=76.7°, TPV=1.0 s, A=20 mu, mPV=5.2(sp).
21	ePg ei ei	12 08 23 08 45 08 50.5	
21	e ei ei(Sg)	12 46 01 47 25 47 39.5	
21	eiP eipP	13 31 01.5 31 33	Northeast of Taiwan 26.2°N 125.7°E, H=13 18 50.3, h = 132 km(ISC), m=5.3 ISC, Dc=82.8°.
21	eiP	14 25 51	D. Kamchatka 55.7°N 163.1°E, H=14 14 32.5, h=52 km(ISC), m=4.8 ISC, Dc=71.5°.
21	e ei	20 33 37 34 32	Yugoslavia 42.3°N 20.8°E, H=20 30 40, h=0 km (ISC), Dc=8.9°.
22	eSg	00 23 32	South coast of France 43.5°N 7.0°E, H=00 20 00, h=0 km(ISC), Dc=8.3°.

Date	Phase	h m s	Remarks
22	eiP	01 48 14.5	Kurile Islands 44.3°N 149.4°E, H=01 36 17.5, h=43 km(ISC), m=4.5 ISC, Dc=78.2°.
22	eiP	01 48 14.5	Kurile Islands 44.3°N 149.4°E, H=01 36 17.5, h=43 km(ISC), m=4.5 ISC, Dc=78.2°.
22	eiPKIKP ePP e e eiPS eSS eSSS eL Lm	05 21 31.5 23 15 32 01 32 45 33 05 40 11 44.9 59 06 15.5	C.New Britain region 5.4°S 151.6°E, H=05 02 40.7, h=59 km(ISC), m=6.0 ISC, Dc=122.8°, LmH:22s 40 u, MLH=7.2, LmV:22 s, A=18 u.
22	ei eiSg	11 11 02 11 37	
22	ePg ei eiSg	15 56 37 57 02.3 57 09.2	D=2.5°.
22	eiPKP	18 37 37.7	New Britain region 5.6°S 151.4°E, H=18 18 36.5, h=56 km(ISC), m=5.3 ISC, Dc=122.9°.
23	eiPg ei	10 55 56 56 17.5	
23	eiPg eiSg	12 45 17 45 40	D=1.7°.
23	e eiSg	12 46 40 47 09.5	
23	e ei ei	13 49 00 49 25.5 50 21	Northern Italy 46.0°N 7.6°E, H=13 44 12, h=0 km (ISC), Dc=6.1°.
24	eiP ei	00 26 59 27 06	D. India 26.4°N 91.4°E, H=00 16 40.8, h=47 km (ISC), m=4.7 ISC, Dc=62.1°.
24	eiP	05 51 50	C. Near Islands 52.6°N 172.5°E, H=05 40 04, h=32 km(ISC), m=5.0 ISC, Dc=76.1°.
24	iPg iSg Lm	09 04 29 04 40.5 04 48	D=98 km. Explosion?
24	eiPg ei ei	12 42 17.5 42 41.1 42 51.5	
24	e e	13 30 54 31 08	

Date	Phase	h m s	Remarks
24	e	13 59 34	
	ei	59 39	
	i	59 45	
24	eSg	19 45 50	Switzerland 47.2°N 7.6°E, H=19 42 57(BCIS), Dc=5.4°.
24	iP	20 04 22.0	C. Southern Alaska 60.1°N 147.9°W, H=19 53 14.0, h=16 km(ISC), m=4.8 ISC, Dc=69.4°.
24	eP	21 31 45	Mid-Atlantic Ridge 1.4°N 29.2°W, H=21 21 30.8, h=33 km(ISC), m=4.5 ISC, Dc=61.0°.
25	eiPg	10 26 56	D=2.1°.
	eiSg	27 23	
25	ePg	12 46 03	D=1.8°.
	eiSg	46 27	
25	ePg	13 38 24	D=1.8°.
	eiSg	38 48	
25	eiPKIKP	23 10 21	D. Samoa region 15.3°S 173.0°W, H=22 50 46, h=
	e	10 49	16 km(ISC), m=5.3 ISC, Dc=144.8°, LmH:18s 2.7 u,
	eL	00 06	MLH=6.0.
	Lm	20	
26	eiP	00 45 36.5	D. Near Islands 52.7°N 173.5°E, H=00 33 47.3,
	ePP	48 33	h=17 km(ISC), Dc=76.2°, TPV=1.0 s, A=42.5 mu, mPV=5.5(sp).
26	eiPKHKP	03 08 49.3	Tonga 21.8°S 174.1°W, H=02 48 55, h=8 km(ISC), m=4.4 ISC, Dc=151.0°.
26	ePKIKP	11 41 22.3	Tonga 15.4°S 173.1°W, H=11 21 52.2, h=78 km(ISC),
	ei	41 32	Dc=144.9°, m=4.7 ISC.
27	e	11 44 04	
	e	44 16	
	ei	44 39.5	
	ei	45 50	
27	eP	16 42 07	Rat Island 52.2°N 175.1°E, H=16 30 18, h=48 km (ISC), m=5.0 ISC, Dc=76.9°.
27	eP	20 54 48	Unimak Island 54.0°N 164.1°W, H=20 43 00.8, h= 40 km(ISC), m=4.8 ISC, Dc=76.4°.
27	e	22 27 20	
28	iP	02 13 33.0	D. Japan Sea 43.7°N 139.7°E, H=02 02 12.9, h=
	ei	13 42	218 km(ISC), m=5.5 ISC, Dc=75.2°, TPV=1.1 s,
	ei	16 03	A=137.0 mu, mPV=5.6(sp).

Date	Phase	h m s	Remarks
28	e	12 51 32	
	eiSg	51 55.4	
28	eiP	13 48 01.2	Ryukyu Islands 29.2°N 130.3°E, H=13 35 41.3,
	ei	48 11.4	h=51 km(ISC), m=5.6 ISC, Dc=82.8°, TPV=1.2 s,
	eL	14 21	A=52.2 mu, mPV=5.6(sp), LmH:16 s 3.2 u, MLH=
	Lm	28.7	5.8.
28	eiPKIKP	18 12 47.7	Loyalty Islands region 21.7°S 170.5°E, H= 17 53 20.2, h=105 km(ISC), m=5.3 USCGS, Dc= 146.0°.

Date	Phase	h m s	Remarks
1	ei	12 44 09.7	
1	eiPg ei	12 46 40.5 46 46.7	
1	eiP	21 51 17	
2	eiPg e	01 44 17 44 41	
2	eiP ei eiS ei Lm	02 42 02.5 42 37.5 46 11 49 05 52	C. E. Caucasus 43.0°N 45.8°E, H=02 37 03.4, h=27km (ISC), m=5.2 ISC, Dc=22.5°, TPV=1.2 s, A=69.3mu, mPV=5.0(sp), LmH:14s 2.2 u, MLH=4.7.
2	eiPg iSg	10 49 58 50 12.5	D=1.1°.
2	ePn eiPg eiSn eiSg i	11 39 18 39 26 39 50 40 01.2 40 07.5	Poland 50.4°N 18.9°E, H=11 38 32.6(WAR), m=3.3 (WAR), Dc=2.8°.
2	iP eiPcP	12 03 08.0 03 18	C. Aleutian Islands 52.6°N 172.5°E, H=11 51 19.6, h=20 km(ISC), m=5.1 ISC, Dc=76.1°, TPV=1.0 s, A=26.0 mu, mPV=5.3(sp).
2	eiPg eiSg	12 31 54 32 10.5	D=1.3°.
2	e eiSg	12 49 17 49 40	
2	ei eiSg	13 58 53.5 59 11	
3	iP ei eL Lm	03 37 13 37 46 04 01 09.4	C. Kurile Islands 48.3°N 154.4°E, H=03 25 29.2, h=53 km(ISC), m=5.8 ISC, Dc=76.2°, TPV=1.3 s, A=182.7 mu, mPV=5.8(sp), LmH:21 s 4.8 u, MLH=5.8.
3	eP	10 27 27	North Atlantic Ridge 20.2°N 45.7°W, H=10 17 51.4, h=33 km(ISC), m=4.7 ISC, Dc=55.7°.
3	e eiSg ei	11 05 46 06 02.2 06 18.7	
3	ei	11 46 49	
3	e eiSg	12 39 32 39 55	

Date	Phase	h m s	Remarks
3	eiPKIKP e	21 48 16.6 49 26	W. of Tonga 20.3°S 178.6°W, H=21 29 35.8, h=608 km(ISC), m=4.6 ISC, Dc=148.6°.
3	e eiSg	22 26 49 26 54	
4	ePKIKP	02 00 28.2	W. of Tonga 17.9°S 178.3°W, H=01 41 46.6, h=535 km(ISC), m=3.6 ISC, Dc=146.3°.
4	eP	11 05 18	California-Mexico 32.5°N 115.7°W, H=10 52 37, h=33 km(ISC), m=4.0 ISC, Dc=86.8°.
4	e ei	12 50 15.5 51 20	
4	ei	13 15 41.5	
5	eiPKP1 eiPKP2 eiPP	00 18 56 19 47.2 23 29	C. N. Zealand 38.6°N 177.7°E, H=23 58 58.2, h=31 km(ISC), m=5.6 ISC, Dc=163.4°.
5	eP	02 41 23	Venezuela 9.9°N 69.3°W, H=02 29 16, h=6 km(ISC), m=5.0 ISC, Dc=78.6°.
5	iP	05 00 28.5	C. Japan region 42.8°N 143.3°E, H=04 48 43.2, h=107 km(ISC), m=4.7 ISC, Dc=77.3°, TPV=1.0 s, A=11.4 mu, mPV=5.0(sp).
5	ei ei e	08 33 47.5 33 54 34 09	
5	ePg eiSg	10 45 25 45 50	D=1.9°.
5	eiPg ei	10 52 58.5 53 23.5	
5	eiP	15 01 05.8	
5	eiPg ei	15 09 44 09 51	
5	ePKIKP	16 04 37	Fiji Region 17.5°S 176.2°E, H=15 45 06, h=35 km (ISC), m=5.3 ISC, Dc=144.4°.
5	eiP ei Lm	21 04 31 04 49 30	N. of Ascension Island 0.1°S 18.0°W, H=20 54 45.7, h=31 km(ISC), m=5.0 ISC, Dc=57.1°, LmH:16 s 2 u, MLH=5.3.
5	eiPKHKP e	23 09 25.5 10 20	C. Tonga 22.0°S 174.7°W, H=22 49 30, h=5 km (ISC), m=5.0 ISC, Dc=151.1°.
6	eiP ePP	02 20 02 22 03	Tibet 31.5°N 80.6°E, H=02 10 52, h=5 km(ISC), m=5.7 USCGS, Dc=51.6°.

Date	Phase	h m s	Remarks
6	eiP	02 25 00.1	Tibet 31.5°N 80.5°E, H=02 15 57.2, h=50 km(ISC),
	ei	25 06.5	m=6.0 ISC, Dc=51.6°, QmH:40 s 110 u, RmH:19 s 96u,
	iPcP	26 14	MLH=6.9, PV:6 s 1.5 u, MPV=6.1, SH:19 s 13.5 u,
	eiPP	27 08	MSH=6.3, SSH:20 s 20 u.
	iS	32 28	
	ei	33 24	
	eiSS	36 00	
	Q	38.5	
	Qm	43	
	Rm	45.4	
6	eP	02 55 42	
6	eiPg	11 47 51	D=1.8°.
	eiSg	48 15	
6	ePKIKP	18 21 42	S. of Fiji 24.1°S 176.9°W, H=18 01 48.7, h=
	ei	21 50	17 km(ISC), m=5.1 ISC, Dc=152.6°, LmH:20 s
	Lm	19 40	1.3 u, MLH=5.7.
7	eiP	01 21 01	Turkey 39.2°N 41.6°E, H=01 16 08.9, h=26 km(ISC),
	ei	21 40	m=5.2 ISC, Dc=22.0°, TPV=1.3 s 40.4 mu, mPV=4.7
	ei	23 19	(sp), QmH:24 s 13 u, RmH:15 s 15 u, MLH=6.1, SH:
	eiS	25 06	12 s 8.5 u, MLH=6.0.
	ei	26 40	
	Q	27.5	
	Qm	30	
	Rm	31.8	
7	eiPKP	02 54 08.6	D. W. of Tonga 20.6°S 178.4°W, H=02 35 27.5, h=
			599 km(ISC), m=4.6 ISC, Dc=149.0°.
7	eiPg	10 16 49	
	ei	16 55.5	
	ei	17 27	
7	eiPg	12 01 28.5	Germany. Explosion of 1.6 Tons, 51.2°N 13.2°E,
	eiSg	01 51	H=12 01(CLL), Dc=1.5°.
7	eiPg	12 42 16.5	D=1.8°.
	eiSg	42 39	
7	eiPg	14 21 05.5	
	ei	21 36.5	
7	e	14 41 48	
	eiSg	42 17.5	
7	eP	17 17 02	E. Caucasus 43.0°N 45.9°E, H=17 12 01.0, h=
			36 km(ISC), m=4.6 ISC, Dc=22.6°.
7	ePn	21 22 30	Austria 47.2°N 14.4°E, H=21 21 43.6, h=0 km(ISC),
	iPg	22 37	Dc=2.8°.
	i	22 57	
	iSn	23 03	
	i	23 14	
	iSg	23 17	

Date	Phase	h m s	Remarks
7	eP	21 40 17	China 37.4°N 115.0°E, H=21 29 17.6, h=34 km(ISC),
	ei	40 22.5	m=5.6 ISC, Dc=68.4°, QmH:36 s 99 u, RmH:18 s
	ei	41 52.5	170 u, MLH=7.4, SH:22 s 6.3 u, MSH=6.4.
	eS	49 22	
	eiSS	53 50	
	eiSSS	57 00	
	Q	22 02	
	Qm	05	
	Rm	08	
7	iP	22 46 42.0	D. Tibet 29.2°N 98.6°E, H=22 36 04, h=20 km(ISC),
			m=5.0 ISC, Dc=64.6°, TPV=1.0 s, A=20.0 mu, mPV=
			5.3(sp).
8	eiPKIKP	00 37 55.3	Tonga 19.0°S 173.2°W, H=00 18 11, h=45 km(ISC),
	ei	38 25	m=5.2 ISC, Dc=148.5°.
	ei	39 19	
8	ePKP	01 33 01	New Hebrides 13.8°S 166.4°E, H=01 13 43, h=35km
	ei	33 22	(ISC), m=5.5 ISC, Dc=137.2°, LmH:28s 6 u, MLH=
	eiPP	35 47.5	6.1.
	Lm	02 29	
8	eiP	01 36 42	
	ei	37 19	
8	e	01 45 35	
8	eP	05 55 01	Molucca Passage 1.9°N 126.4°E, H=05 41 02, h=
	ei	55 28	17 km(ISC), m=5.8 ISC, Dc=102.5°, LmH:22s 6.5 u,
	eSKS	06 05 36	MLH=6.1.
	e	06 42	
	Lm	43	
8	eiPg	06 04 59	D=2.5°.
	iSg	05 32	
	i	05 38	
8	eiPg	09 03 44.5	D=1.1°.
	i	03 55.5	
	iSg	03 58.5	
8	eiPn	09 11 21.5	
	i	11 28.3	
	ei	11 52.5	
8	iPg	10 26 55.8	
	i	27 08.8	
8	ei	12 36 31	
	eiSg	37 02	
8	ePg	12 49 29	D=1.7°.
	eiSg	49 52	

Date	Phase	h m s	Remarks
8	iPg	15 42 22.3	D=1.2°.
	iSg	42 37.8	
8	eiPg	16 17 59.5	D=1.6°.
	iSg	18 23.5	
8	eP	18 54 39	Greece 38.9°N 21.4°E, H=18 51 47.5, h=44 km
	eS	56 58	(ISC), m=4.7 ISC, Dc=12.2°, LmH:10 s 1.3 u,
	Lm	59	MLH=4.2.
8	eP	20 59 50	Chile-Bolivia 20.0°S 68.9°W, H=20 46 11.2, h=
	e	21 03 21	108 km(ISC), m=5.5 ISC, Dc=101.0°.
	eiPP	03 51.2	
8	ePKP	23 35 37	Tonga region 22.1°S 174.7°W, H=23 15 45.7, h=
			50 km(ISC), m=4.6 ISC, Dc=151.3°.
9	eiP	01 50 57.7	Kurile Islands 47.8°N 154.1°E, H=01 39 14.2,
			h=50 km(ISC), m=4.6 ISC, Dc=151.3°.
9	ePg	10 00 54	
	i	00 56.0	
	ei	01 05	
	eiSg	01 09	
	Lm	01 11	
9	iPg	10 27 16.0	Czechoslovakia. Explosion of 8 Tons 49°57.3'N
	iSg	27 17.5	14°23.4'E(PRU), Dc=11 km.
	Lm	27 18	
9	iPg	11 46 13	D=1°.
	iSg	46 25.5	
9	ei	12 25 46	
	i	25 56.7	
9	iPg	12 42 14	D=1.6°.
	eiSg	42 35	
9	eiPg	12 47 28	D=1.9°.
	ei	47 44	
	iSg	47 53.0	
9	eiPg	15 52 10	
	ei	52 20	
	i	52 25	
10	eiP	04 38 08.0	D. S. of Honshu, Japan 32.3°N 137.7°E, H=
	eipP	39 38	04 26 21.3, h=397 km(ISC), m=5.3 ISC, Dc=83.9°.
10	eiP	11 23 45.2	Turkey 39.9°N 41.6°E, H=11 19 01, h=45 km(ISC),
			m=4.4 ISC, Dc=21.5°.
10	iPKP	12 34 28.8	C. W. of Tonga 19.3°S 177.0°W, H=12 15 17.7, h=
	ei	35 51	302 km(ISC), m=5.0 ISC, Dc=148.0°.

Date	Phase	h m s	Remarks
10	e	12 47 13	
	ei	47 41	
	eiSg	47 52.5	
10	e	12 55 18	
	iSg	55 30.5	
10	ei	13 56 31	
11	e	02 06 17	
11	e	04 12 56	
11	iPg	07 25 59.5	D=1.6°.
	iSg	26 20	
11	eiPg	08 23 54.5	
	ei	24 09.5	
11	ei	09 59 05.8	
	eiSg	59 15.5	
	Lm	59 21	
11	ei	10 37 10.5	
11	eiPg	11 06 00.5	D=1.°.
	eiSg	06 14	
11	eiPg	12 02 47.5	
	ei	02 59	
	ei	03 04.5	
11	e	12 35 46	
	ei(Sg)	36 03.5	
11	eiPg	12 52 04	D=1.7°.
	eiSg	52 27	
11	ei	13 35 52.5	
11	eiP	20 05 45	Crete 34.4°N 24.2°E, H=20 01 45, h=30 km(ISC),
	ei	05 54	m=4.9 ISC, Dc=17.1°, TPV=1.3 s, A=125.0 mu,
	ei	06 04	mPV=4.9(sp).
	eS	08 56	
11	eP	23 22 12	North Atlantic Ridge 28.4°N 44.0°W, H=23 13 30,
			h=49 km(ISC), m=4.8 ISC, Dc=48.9°.
11	eiP	23 24 27	Aftershock 28.4°N 43.9°W, H=23 15 44, h=40 km
			(ISC), m=5.0 ISC, Dc=48.8°, TPV=1.5 s, A=40.5 mu,
			mPV=5.2(sp).
11	eiP	23 27 33.6	Aftershock 28.4°N 44.0°W, H=23 18 50.2, h=33 km
			(ISC), m=5.0 ISC, Dc=48.8°.

Date	Phase	h m s	Remarks
11	eiP ei	23 45 26.8 45 44.5	C. Aftershock 28.4°N 43.9°W, H=23 36 42.4, h=33 km(ISC), m=5.0 ISC, Dc=48.8°, TPV=1.5 s, A=35.5 mu, mPV=5.2(sp).
12	ePKP2	01 25 56	Kermadec region 31.0°S 178.4°W, H=01 05 30.1, h=57 km(ISC), m=5.2 ISC, Dc=158.7°.
12	e eiSg	06 07 42 08 03	
12	eiPKIKP	14 39 12	Samoa region 15.0°S 173.6°W, H=14 19 35.9, h=19 km(ISC), m=4.9 ISC, Dc=144.4°.
12	eiPKIKP	14 46 33.4	C. Tonga 15.4°S 173.0°W, H=14 26 58.7, h=33 km (ISC), m=5.1 ISC, Dc=144.9°.
12	iP i ei eS Lm Lm	16 43 40.0 43 47.0 45 13.5 53 55 17 12.5 19	C.S.W, Taiwan Region 24.2°N 122.7°E, H=16 31 19.9, h=42 km(ISC), m=6.5 ISC, Dc=82.6°, TPV=1.5 s, A=761.9 mu, mPV=6.7(sp), LmH:28 s 510 u, MLH=7.8.
12	eiP eisP	18 11 53.3 12 23.5	Aftershock 24.2°N 122.6°E, H=17 59 35.4, h=51 km (ISC), m=5.4 ISC, Dc=82.6°.
12	eP	18 26 02	Aftershock 23.8°N 122.9°E, H=18 13 40, h=51 km (ISC), m=4.7 ISC, Dc=83.1°.
12	eiP ei	19 26 19.7 26 33.3	D. Aftershock 23.7°N 123.0°E, H=19 13 57.6, h=60 km(ISC), m=4.8 ISC, Dc=83.3°, TPV=1.7 s, A=44.1 mu, mPV=5.4(sp).
12	eiP	19 35 22	Aftershock 23.9°N 122.9°E, H=19 23 00.6, h=51 km (ISC), m=5.0 ISC, Dc=83.0°, TPV=1.7 s, A=50.0 mu, mPV=5.5 (sp).
12	eP	20 44 05	Aftershock 24.0°N 122.6°E, H=20 31 46.8, h=81 km (ISC), Dc=82.7°.
12	eP	21 04 10	Aftershock 24.2°N 122.4°E, H=20 51 52, h=52 km (ISC), Dc=82.5°.
13	eiP	01 45 18.7	North Atlantic Ridge 28.4°N 43.9°W, H=01 36 35.0, h=33 km(ISC), m=4.7 ISC, Dc=48.8°.
13	eP	04 23 41	Taiwan region 24.0°N 122.6°E, H=04 11 23, h=86 km (ISC), m=4.5 ISC, Dc=82.8°.
13	e ei(Sg)	12 02 57 03 24	
13	eiP	15 06 09.7	Taiwan region 23.8°N 122.8°E, H=14 53 47.6, h=47 km(ISC), m=5.1 ISC, Dc=83.0°, TPV=1.5 s, A=23.5 mu, mPV=5.2(sp).

Date	Phase	h m s	Remarks
13	ePKIKP ei eiPP	18 18 28 18 38 22 33.2	Easter Isl. Cordillera 55.2°S 126.6°W, H=17 58 35.2 h=33 km(ISC), m=5.1 ISC, Dc=156.0°.
13	ePKIKP ei	19 00 26.0 00 44.5	D. Tonga 21.1°S 175.1°W, H=18 40 38, h=36 km(ISC), m=5.2 ISC, Dc=150.2°.
13	eP	19 14 12	Ryukyu Islands 24.0°N 123.4°E, H=19 01 49, h=44 km(ISC), m=5.1 ISC, Dc=83.2°.
14	eP	03 31 43.8	Central Mid-Atlantic region .0°N 27.7°W, H=03 21 37, h=70 km(ISC), m=4.8 ISC, Dc=60.6°.
14	eP	04 53 09	Tibet 32.5°N 97.5°E, H=04 42 50.7, h=33 km(ISC), m=4.8 ISC, Dc=61.6°.
14	iPg iSg Lm	09 29 31.7 29 34.7 29 39	Czechoslovakia. Explosion of 8 Tons 50°10.5'N 14°23.8'E(PRU). Dc=25 km.
14	eP ei Lm	14 11 28 11 38.7 15 48	Greece 39.1°N 21.4°E, H=14 08 41.2, h=45 km(ISC), m=4.6 ISC, Dc=12.0°, LmH:10 s 2 u, MLH=4.4.
15	eP	11 26 18	Taiwan region 24.2°N 122.7°E, H=11 14 02.4, h=79 km(ISC), m=5.1 ISC, Dc=82.7°.
15	eiPn iPg iSg	14 22 55.7 22 56.7 23 13.7	D=1.4°.
15	eiPKP1 eiPKP2	16 29 10 29 19.2	S. of Fiji 22.1°S 179.4°W, H=16 10 25.2, h=591 km(ISC), m=4.5 ISC, Dc=150.1°.
15	eiP ei	23 44 08.2 44 47	Taiwan region 24.2°N 122.7°E, H=23 31 49.3, h=48 km(ISC), m=5.3 ISC, Dc=82.6°.
16	eiPKIKP	00 03 02.7	W. of Tonga 18.0°S 178.2°W, H=23 44 28.0, h=611 km(ISC), m=4.2 ISC, Dc=146.5°.
16	eiPKP eiPKP2 ePP	12 32 47.7 32 55.7 36 41	C. Tonga 21.3°S 174.2°W, H=12 13 01, h=57 km(ISC), m=5.3 ISC, Dc=150.5°.
16	ei eiSg	12 55 17 55 52	
16	eiPg eiSg	12 56 14.5 56 39	D=1.8°.
16	eiPn eiPg e eiSg	13 28 09.2 28 19.7 28 58 29 04	Austria 47.5°N 11.3°E, H=13 27 16, h=9 km(ISC), Dc=3.3°.

Date	Phase	h m s	Remarks
16	e	15 52 00	Austria 47.0°N 11.5°E, H=15 50 59, h=0 km(ISC),
	e	52 43	Dc=3.6°.
	eiSg	52 46.7	
16	e	20 51 40	Negros, Philippines 9.5°N 122.2°E, H=20 38 25.0,
	ePP	55 30	h=38 km(ISC), m=5.2 ISC, Dc=93.9°.
17	ePg	12 46 27.8	D=1.6°.
	eiSg	46 50.8	
17	ePg	13 32 14	
	eiSg	32 40	
17	ePg	13 33 44	
	eiSg	34 11	
17	eiPn	14 24 31	
	eiPg	24 32.5	
	eiSg	24 53	
17	eiPKIKP	16 09 05.7	D. W. of Tonga 21.1°S 179.2°W, H=15 50 32.3,
	i	09 12.3	h=627 km(ISC), m=5.9 ISC, Dc=149.2°.
	ei	11 43	
	ei	12 43	
	ei	16 09	
	Lm	50	
18	eP	01 19 11	North Atlantic Ridge 28.4°N 44.0°W, H=01 10 26.5,
			h=33 km(ISC), m=4.7 ISC, Dc=48.8°.
18	ePg	12 31 50.7	D=1.3°.
	iSg	32 07.7	
18	eiPg	13 06 42.4	D=1.7°.
	eiSg	07 05.4	
18	ePg	13 57 14	D=1.4°.
	eiSg	57 31.5	
18	e	14 00 34	
	e(Sg)	01 21	
18	e	14 13 02	
	ei	13 08	
	ei(Sg)	13 28	
18	e	15 35 42	
	ei(Sg)	36 07	
18	eiP	17 20 26	Mid-Indian Rise 11.4°S 66.4°E, H=17 08 43, h=
			59 km(ISC), m=4.6 ISC, Dc=76.0°.
18	eiPg	17 49 33.4	D=1.2°.
	iSg	49 48.9	

Date	Phase	h m s	Remarks
18	eiP	18 22 13.4	C. Southern Alaska 60.4°N 146.4°W, H=18 11 08.5,
			h=22 km(ISC), m=4.8 ISC, Dc=68.9°, TPV=1.0 s, A=
			15.1 mu, mPV=5.2(sp).
18	eiPKP	21 05 47	D. New Hebrides 20.6°S 169.7°E, H=20 46 20.9, h=
	eisPKIKP	06 24	89 km(ISC), m=4.9 ISC, Dc=144.7°.
19	iP	08 23 39.6	C. Japan region 43.1°N 145.9°E, H=08 11 47.4, h=
	e	26 17	72 km(ISC), m=5.1 ISC, Dc=78.1°.
19	iPg	10 14 18.6	
	ei	14 42.5	
19	iPg	11 00 40.7	D=1.4°.
	eiSg	00 59.2	
19	eiPg	11 38 00.6	D=1.2°.
	iSg	38 16.6	
19	ePP	17 34 48	Southwest of Africa 52.8°S 19.9°E, H=17 16 41.2,
	e	37 42	h=33 km(ISC), m=5.3 ISC, Dc=102.5°, LmH:20 s
	eL	18 08	1.8 u, MLH=5.6.
	Lm	20.5	
20	eiP	01 51 47.8	D. Congo 0.8°N 29.9°E, H=01 42 51.8, h=34 km
	ei	52 01	(ISC), m=6.0 ISC, Dc=50.7°, TPV=2.2 s, A=500.0 mu,
	eiPP	53 53	mPV=6.1(sp), LmH:19 s 122 u, MLH=6.9, SH:27 s 45 u
	eiS	59 01	MSH=6.7,
	eiSS	02 02 44.5	
	Lm	12	
	Lm	14.4	
20	eP	03 31 48	Uganda 0.8°N 30.1°E, H=03 22 43, h=4 km(ISC), m=
			5.1 ISC, Dc=50.7°.
20	iP	05 57 35.1	C. Eastern Kazakhstan 49.7°N 78.1°E, H=05 49 57.8,
	eiPP	59 04	h=0 km(ISC), m=6.0 ISC, Dc=39.9°, TPV=1.0s, A=
	ei	06 07 44.5	130.0 mu, mPV=5.5(sp).
20	eiPKIKP	08 07 19	Tonga 17.1°S 174.1°W, H=07 47 51.1, h=127 km
	eipPKIKP	07 51.8	(ISC), m=5.4 ISC, Dc=146.5°.
20	ePKIKP	08 26 12	Tonga 16.6°S 174.2°W, H=08 06 44, h=128 km(ISC),
			Dc=145.9°.
20	eP	09 04 36	Congo 0.8°N 29.9°E, H=08 55 34, h=1 km(ISC), m=
			5.6 ISC, Dc=50.8°.
20	eiPKP	09 24 14.3	Tonga 21.1°S 174.4°W, H=09 04 31, h=85 km(ISC),
	eipPKP	24 37	m=5.3 ISC, Dc=150.3°.
20	ePg	11 57 17	D=1.7°.
	eiSg	57 40	
20	eP	17 40 23	Philippine Isl. region 13.3°N 125.0°E, H=172712.6,
			h=29 km(ISC), m=4.9 ISC, Dc=92.6°.

Date	Phase	h m s	Remarks
20	eP	21 55 05	Jan Mayen region 71.7°N 2.6°W, H=21 50 00.5, h=33 km(ISC), m=4.4 ISC, Dc=23.1°.
21	eP	00 15 20	Ryukyu Islands 23.7°N 123.2°E, H=00 02 53, h=19 km(ISC), m=5.0 ISC, Dc=83.4°.
21	eiP	01 39 40	Congo 0.8°S 29.8°E, H=01 30 38.0, h=5 km(ISC), m=5.3 ISC, Dc=50.7°.
21	eiPg eiSg	07 24 48 25 21.5	D=2.5°.
21	eP	09 32 50	Congo 0.8°N 30.0°E, H=09 23 49.9, h=6 km(ISC), m=5.0 ISC, Dc=50.7°.
21	eiPg ei ei	11 46 42.5 47 10 47 13	
21	eiPg eiSg	12 38 48.5 39 11	D=1.6°.
21	eiPn iPg iSg	13 01 29 01 30 01 46	D=1.4°.
21	eP	17 52 55	Kurile Islands 45.4°N 151.5°E, H=17 40 59.1, h=42 km(ISC), m=4.3 ISC, Dc=77.9°.
21	eP	20 50 03	Taiwan region 21.7°N 121.1°E, H=20 37 37.8, h=55 km(ISC), m=4.8 ISC, Dc=83.7°.
21	e eiPg eSn ei ei	21 40 47 41 16.5 41 56 42 16 42 33	Adriatic Sea 42.9°N 17.5°E, H=21 39 02, h=21 km (ISC), Dc=7.4°.
22	e ei ei	02 46 12 46 57 47 04	Yugoslavia 43.5°N 17.7°E, H=02 43 39.6, h=0 km (ISC), Dc=6.9°.
22	ePg ei	05 50 53 51 52	Aftershock 43.4°N 17.7°E, H=05 48 34, Dc=6.9°.
22	eiP ei ei	08 22 36.5 23 36.5 27 20.6	China 37.5°N 115.0°E, H=08 11 33.5, h=33 km(ISC), m = 5.6 ISC.
22	eiP i ei eiS ei eiSS eiSSS	08 30 32.5 30 36.5 31 59.5 39 29.5 40 16 44 00 47 00	China 37.5°N 115.1°E, H=08 19 34.6, h=28 km(ISC), m=5.9 ISC, Dc=68.3°, RmH:17 s 295 u, MLH=7.6, PV:8 s 1.8 u, MPV=6.3, SH:14 s 15 u, MSH=6.9.

Date	Phase	h m s	Remarks
	Q Rm Rm	53 57 09 02	
22	ePg eiSg	09 21 42.5 21 09.5	D=2.1°.
22	eiP	11 19 37	C. China 37.7°N 115.1°E, H=11 08 35.2, h=11 km (ISC), m=5.1 ISC, Dc=68.2°,TPV=1.3 s, A=1.46 mu, mPV=5.3(sp).
22	eiPg eiSg	13 01 30.2 01 56.2	D=2°.
22	ePg eiSg	13 14 10 14 35.5	D=2°.
22	eiPg ei	13 35 58.5 36 19	
22	ei	13 58 45.5	
23	iP ei eiS eiPS eL Lm Lm	00 16 55.9 17 26 27 11.5 28 05.5 43 49 59.5	C. Taiwan region 23.9°N 123.0°E, H=00 04 33.4, h=40 km(ISC), m=6.2 ISC, Dc=83.1°, TPV=1.7 s, A=1264.7, mPV=6.9(sp), LmH:19s 8 u, LmH:28 s, 18 u, MLH=6.2.
23	eiPKIKP	08 21 03.5	Tonga 21.6°S 173.9°W, H=08 01 13.0, h=33 km(ISC), m=4.8 ISC, Dc=150.9°.
23	iPg iSg i Lm	09 00 57 01 05.5 01 11.5 01 15	Czechoslovakia, Explosion of 8 Tons 49°52.5′N 15°52′E(PRU), Dc=94 km.
23	iPg i iSg	09 53 05 53 15 53 20	D=1.1°.
23	iPg iSg	11 39 54.5 40 16	D=1.6°.
23	eiPg eiSg	12 50 14 50 37	D=1.7°.
23	e eiSg	12 51 31 51 52	
23	iPg iSg	16 07 50 08 04	D=1.1°.
23	e e	20 30 37 31 07	

Date	Phase	h m s	Remarks
24	e	01 35 46	
24	eP	03 34 04	Aleutian Islands 52.8°N 171.8°E, H=03 22 21.5, h=46 km(ISC), m=4.5 ISC, Dc=75.8°.
24	eiPKP eipPKP	04 24 25.5 25 10	C. W. of Tonga 21.6°S 176.1°W, H=04 04 51.9, h=156 km(ISC), m=5.1 ISC, Dc=150.4°.
24	eiP	08 50 42	
24	eiPg eiSg	11 41 53 42 14.5	D=1.6°.
24	iPg iSg	12 59 32 59 33.8	Czechoslovakia. Explosion of 2 Tons 49°57.3′N, 14°23.4′E(PRU), Dc=11 km.
24	iPg i i	13 06 40 06 50 06 54	
24	iPg iSg i	15 00 08.7 00 24.2 00 25.7	Explosion of 12.7 Tons 50°05′N 16°18′E, Dc=126 km.
25	iPg iSg Lm	10 02 17.1 02 18.6 02 20	D=12 km. Explosion?
25	iPg i iSg	12 05 06.9 05 26.4 05 28.9	D=1.6°.
25	eP	13 06 53	Aleutian Islands 51.6°N 179.7°W, H=12 54 57, h=39 km(ISC), m=4.8 ISC, Dc=78.1°.
25	ePg eSg	16 47 04.5 47 28	D=1.8°.
26	eP	09 53 23	Rhodesia 18.5°S 26.4°E, H=09 42 19.4, h=33 km(ISC), m=5.1 ISC, Dc=69.0°.
26	eiP ei	14 21 44 21 53.2	Philippine Islands region 19.8°N 120.7°E, H=14 09 08, h=17 km(ISC), m=5.1 ISC, Dc=84.9°, TPV=1.1 s, A=40.5 mu, mPV=5.6(sp).
26	eiP ei eiPP eS eSS eL Lm	15 30 03.2 30 41 32 55.4 39 03 43.6 50 56.5	C. China 37.7°N 115.1°E, H=15 19 00, h=4 km(ISC), m=5.2 ISC, Dc=68.2°, TPV=1.1 s, A=24.3 mu, mPV=5.3(sp), LmH:17 s 26 u, MLH=6.6.
26	eiP Lm	18 25 21.2 52	Aftershock 37.9°N 115.0°E, H=18 14 23.3, h=33 km (ISC), m=4.9 ISC, Dc=68.1°, LmH:20s 4.9 u, MLH=5.8.

Date	Phase	h m s	Remarks
26	eP	20 20 25	Greece 38.9°N 21.7°E, H=20 17 34.1, h=47 km(ISC), m=4.3 ISC, Dc=12.2°.
26	ePg eiSg	21 27 13 28 07	Germany 48.2°N 9.2°E, H=21 25 59.5, h=2 km(STU), Dc=4.0°.
26	eP	01 49 46	Arabian Sea 14.3°N 56.6°E, H=01 41 01, h=55 km m=4.8 ISC, Dc=49.3°.
27	eiP	01 52 23.1	Greece 38.0°N 23.9°E, H=01 49 14.2, h=178 km (ISC), m=4.1 ISC, Dc=13.7°.
27	eiP	19 06 31.0	C. Costa Rica 8.9°N 83.5°W, H=18 53 41.2, h=37 km(ISC), m=5.5 ISC, Dc=88.4°, TPV=1.5 s, A=47.5 mu, mPV=5.6(sp).
27	e	20 46 48	
28	e e	12 18 48 19 20	
28	ei	15 26 49	
28	eP	17 56 14.5	Peru-Ecuador 4.0°S 80.9°W, H=17 42 48.2, h=7.5 km(ISC), m=5.3 ISC, Dc=96.5km.
29	eiP ei ei	02 30 46 31 10 33 15	Volcano Isl. region 23.7°N 142.2°E, H=02 17 36.9, h=61 km(ISC), m=5.9 ISC, Dc=93.2°.
29	eiP ePP eL Lm	06 23 00.5 25 33 47 50.8	China 37.5°N 115.0°E, H=06 12 00.8, h=33 km(ISC), m=5.3 ISC, Dc=68.3°, LmH:18 s 7.4 u, MLH=6.0.
29	eiPg eiSg	10 37 17 37 31	D=1.1°.
29	eiPKP ei	11 01 44 03 35	D. Tonga 20.2°S 174.9°W, H=10 42 14, h=86 km (ISC), m=5.1 ISC, Dc=149.4°.
29	ePKIKP	16 42 43	Samoa region 16.1°S 172.8°W, H=16 23 02.6, h=7 km(ISC), m=4.2 ISC, Dc=145.7°.
30	eiP eiPP eS e eL Lm	04 27 11.5 29 07.5 34 00 37 07 44 49.5	Arabian Sea 21.9°N 62.3°E, H=04 18 39.3, h=28 km(ISC), m=5.3 ISC, Dc=46.7, LmH:22 s 1.6 u, MLH=5.0.
30	ePg eSg	09 00 59 01 24	D=1.9°.

Date	Phase	h m s	Remarks
30	ePg	09 29 15	D=1.8°.
	eiSg	29 38.5	
30	eiPg	09 30 38	D=1.7°.
	i	30 39.5	
	eSg	31 01	
30	eiP	12 51 49	Vancouver Isl. region 49.6°N 129.5°W, H=12 40 02.4
	eiPcP	52 05	h=33 km(ISC), m=5.3 ISC, Dc=75.9°, LmH:17 s 3 u
	eiS	13 01 37	MLH=5.6.
	eL	17	
	Lm	27.5	
30	ePKIKP	13 28 43	Tonga 19.6°S 175.5°W, H=13 09 20, h=199 km(ISC), m=4.3 ISC, Dc=148.6°.
30	ePKP	13 32 36	New Ireland region 4.7°S 153.1°E, H=13 13 45.4, h=74 km(ISC), m=4.6 ISC, Dc=123.0°.
30	eP	18 58 29.5	Japan 39.8°N 143.4°E, H=18 46 21, h=26 km(ISC), m=4.7 ISC, Dc=80.0°.
30	ePKP2	21 01 23	S. of Kermadec 32.4°S 178.1°W, H=20 40 45.5, h= 16 km(ISC), m=4.8 ISC, Dc=160.1°.
31	eiP	05 23 25	Kurile Islands 46.2°N 150.4°E, H=05 11 35, h= 39 km(ISC), m=4.8 ISC, Dc=76.8°.
31	ePKP	05 25 22	New Hebrides 17.3°S 167.9°E, H=05 05 55.5, h= 34 km(ISC), m=5.1 ISC, Dc=141.0°.
31	eiPg	10 26 24	D=1°.
	eiSg	26 37	
31	iPg	11 18 43.5	D=2.1°.
	ei	19 06.5	
	iSg	19 09.5	
31	ei(Pg)	11 42 10	
	ei	42 20	
31	eiPg	11 43 32.5	D=1.6°.
	eiSg	43 53.5	
31	ePg	12 39 53	D=1.6°.
	eiSg	40 15	
31	ePg	14 00 30	D=2.1°.
	eSg	00 57.5	
31	eiSg	14 07 54	Germany.Explosion of 2.8 Tons 51.4°N 12.9°E, H= 14 06 51.4(CLL), Dc=1.7°.
31	iPg	14 11 21	D=1.6°.
	eiSg	11 43	

Date	Phase	h m s	Remarks
31	e	14 23 52	
	eiSg	24 00.5	
31	eiP	20 56 13.7	
	ei	56 23	
31	eiP	23 45 35.6	Hindu-Kush region 36.5°N 70.7°E, H=23 38 01.8,
	eipP	46 20	h=209 km(ISC), m=5.1 ISC, Dc=42.1°, TPV=0.7 s, A=30.8 mu, mPV=4.9(sp).
31	eiP	23 50 55.2	

Date	Phase	h m s	Remarks
1	eiP	03 02 58	Aleutian Islands 51.9°N 176.5°E, H=02 51 09, h=68 km(ISC), m=4.9 ISC, Dc=77.4°.
1	eiPg ei	08 48 56.5 49 07	
1	iPg iSg Lm	10 15 19.5 15 22.5 15 24	Czechoslovakia. Explosion of 7 Tons 49°50.6′N 14°50.3′E(PRU), Dc=0.2°.
1	eiPg iSg	10 58 48 59 01	D=1.0°.
1	iPg iSg eL Lm	13 00 32 00 48.5 00 54 00 58	Explosion of 23.3 Tons 49°40.4′N 16.23′E, Dc=1.2°.
1	eP ei eL Lm Lm	13 18 02 18 32 21.6 22.3 23.2	Greece 38.7°N 21.5°E, H=13 15 05.2, h=45 km(ISC), m=4.7 ISC, Dc=12.3°, LmE:11 s 2.3 u, LmN:10 s 4 u, MLH=4.7.
2	eP e eiPP	02 05 48 06 38 09 15	Mexico 16.5°N 97.4°W, H=01 52 40, h=39 km(ISC), m=5.3 ISC, Dc=90.9°.
2	iP iSg i	08 30 33.5 30 49 30 51.8	Explosion of 7.1 Tons 50°53.8′N 15°04.2′E, Dc=1.0°.
2	e eiSg	10 37 12 37 34	
2	eiPg eiSg	16 28 26.5 29 04.5	D=2.6°.
2	iP ei	22 55 30.5 55 42	C. Japan 38.5°N 142.1°E, H=22 43 22.3, h=48 km (ISC), m=5.1, Dc=80.5°, TPV=1.5 s, A=35.6 mu, mPV=5.2(sp).
2	eiPKIKP	22 58 46.5	Tonga 17.0°S 173.1°W, H=22 39 10, h=55 km(ISC), m=4.4 ISC, Dc=146.5°.
3	iP ei eiPP Lm	04 55 54.0 56 10.2 58 43 05 35	C. Japan 36.7°N 141.1°E, H=04 43 39.2, h=52 km (ISC), m=5.6 ISC, Dc=81.7°, TPV=1.2s, A=105.2 mu, mPV=5.8(sp), LmH:17 s 1.2 u, MLH=5.3.
3	eP eiPP eiS eL Lm	11 39 17 39 32 41 48.5 43 44.5	Greece 38.9°N 21.5°E, H=11 36 26.1, h=34 km(ISC), m=4.8 ISC, Dc=12.1°, LmH:10s 8.5 u, MLH=5.0.

Date	Phase	h m s	Remarks
3	eiPKIKP ei	16 14 56 15 06	C. W. of Tonga 17.0°S 176.9°W, H=15 55 18.5, h=33 km(ISC), m=4.7 ISC, Dc=145.8°.
3	eiP	22 22 02.5	
3	eP ei	23 07 45.5 07 49	Jan Mayen region 71.9°N 2.7°W, H=23 02 39.2, h=33 km(ISC), m=4.2 ISC, Dc=23.3°.
4	eiP	02 28 55	C. Andaman Isl. region 11.7°N 92.6°E, H=02 17 17.2 h=25 km(ISC), m=4.8 ISC, Dc=73.4°.
4	eiP e	03 03 15 03 38	Andaman Isl. region 11.9°N 92.7°E, H=02 51 37.7, h=21 km(ISC), m=4.9 ISC, Dc=73.4°.
4	ePKP ei	05 57 40 57 44	W. of Macquarie Isl. 54.8°S 146.0°E, H=05 37 50, h=43 km(ISC), Dc=150.5°.
4	eP ei	06 53 45 53 53	Andaman Isl. region 11.8°N 92.6°E, H=06 42 12.8, h=22 km(ISC), m=5.1 ISC, Dc=73.4°.
4	e eiSg	12 41 51 42 13	
4	eP	20 02 49	El Salvador 13.6°N 89.7°W, H=19 50 07.5, h=106 km (ISC), m=5.2 ISC, Dc=88.5°.
4	eiP	20 55 29.5	Azores region 38.1°N 31.4°W, H=20 48 40, h=35 km (ISC), m=4.9 ISC, Dc=34.6°.
5	eiP e	05 09 33.4 09 53	C. Kurile Islands 43.8°N 147.8°E, H=04 57 39.4, h=62 km(ISC), m=5.0 ISC, Dc=78.1°, TPV=0.7 s 16.1 mu, mPV=5.3(sp).
5	e ei	05 28 37 28 50.5	
5	eiP	06 19 03.2	Zambia 16.5°S 28.7°E, H=06 08 08.7, h=27 km(ISC), m=5.0 ISC, Dc=67.3°.
5	eiP ei eL Lm	09 03 29.8 03 55.3 34 37.5	C. Japan 36.6°N 128.3°E, H=08 51 19.6, h=34 km (ISC), m=5.0 ISC, Dc=80.5°, TPV=1.2 s, A=33.3 mu, mPV=5.1(sp), LmH:15 s 1.9 u, MPV=5.6.
5	eiPg eiSg	10 17 28.8 17 55.8	D=2.1°.
5	ePg eiSg	14 01 44 02 07	D=1.7°.
6	eP e	02 00 01 01 23	West Pakistan 34.9°N 73.1°E, H=01 51 53.2, h=54 km(ISC), m=5.0 ISC, Dc=44.6°.
6	ePP ePP	03 19 05 21 38	Southwest Indian Ridge 45.8°N 96.1°E, H=02 59 02.5, h=33 km(ISC), m=5.7 ISC, Dc=116.7°, LmH:21 s 3.3 u,

Date	Phase	h m s	Remarks
	e	31 27	MLH=5.9.
	eSS	35 23	
	eL	50	
	Lm	04 06.5	
6	ePKIKP	05 22 27	Loyalty Isl. 22.3°N 171.4°E, H=05 03 05.1, h=
	e	22 46	83 km(ISC), m=4.5 ISC, Dc=146.9°.
6	eiPg	12 29 59.4	D=1.5°.
	eiSg	30 20.4	
6	eiPg	12 59 50	D=1.6°.
	eiSg	13 00 12	
	ei	00 46.4	
6	e	14 42 36	
	eiSg	43 23	
6	eP	19 58 18	Japan 30.3°N 130.9°E, H=19 45 57.1, h=61 km(ISC), m=5.2 ISC, Dc=82.2°.
6	ePKIKP	20 05 19	Loyalty Isl. region 22.3°S 171.5°E, H=19 45 48.7,
	ei	05 50	h=119 km(ISC), m=4.7 ISC, Dc=147.0°.
6	eP	22 06 37	Philippine Isl. 8.9°N 126.4°E, H=21 53 10.5, h=
	eL	32	66 km(ISC), m=5.2 ISC, Dc=96.9°, LmH:20 s 3 u,
	Lm	35	MLH=5.8.
6	eiP	22 40 10	C. Kodiak Isl. region 56.5°N 154.6°W, H=22 28 37.5 h=28 km(ISC), m=5.1 ISC, Dc=73.5°, TPV=1.0 s, A= 23.0 mu, mPV=5.2(sp).
7	eiP	03 28 51	Greece 37.8°N 21.1°E, H=03 25 45, h=25 km(ISC),
	ei	30 16	m=4.8 ISC, Dc=13.1°, LmN:9 s 1.1 u, MLH=4.4.
	e	31 32	
	Lm	34.8	
7	e(P)	04 04 26	Kurile Islands 43.8°N 147.6°E, H=03 52 43.5, h= 75 km(ISC), m=4.2 ISC, Dc=78.0°.
7	eiPKIKP	05 22 32	Tonga 15.6°S 174.4°W, H=05 02 57, h=33 km(ISC), m=4.9 ISC, Dc=144.9°.
7	eiPg	08 09 24	Germany 48.2°N 9.2°E, H=08 08 06.1, h=4 km(ISC),
	ei	10 11.5	Dc=4.0°.
	iSg	10 17	
7	eiP	09 54 59	C. Ryukyu Isl. 26.3°N 127.6°E, H=09 42 32.0, h=
	ei	55 11	42 km(ISC), m=5.6 ISC, Dc=83.7°, LmH:20 s 1.3 u,
	eiPP	58 11	MLH=5.1.
	eL	10 26	
	Lm	29.4	
7	eiPg	10 13 57.4	Explosion of 6.5 Tons 49°34.1'N 12° 21.4'E, H=
	iSg	14 17.9	10 13 30.1, Dc=1.5°.

Date	Phase	h m s	Remarks
7	eiPg	12 42 58	
	iSg	43 20.5	
7	eiPKIKP	14 56 18	S. of Tonga 24.0°S 175.2°W, H=14 36 33.9, h=
	ei	56 25.5	70 km(ISC), m=5.0 ISC, Dc=153.0°.
7	eiPn	19 40 48.2	Italy 44.3°N 7.4°E, H=19 38 58, h=0 km(ISC), Dc=
	eiPg	41 27	7.5°.
	eiSn	42 11.2	
	ei	42 46.5	
8	eP	00 06 44	Sumatra 2.0°S 100.2°E, H=23 53 50, h=26 km(ISC), m=4.6 ISC, Dc=88.7°.
8	iP	01 58 19.6	C.S. Kamchatka region 51.2°N 157.8°E, H=01 46 46.8
	eiPcP	58 33.6	h=61 km(ISC), m=6.0 ISC, Dc=74.4°, TPV=2.5 s, A=
	e	02 01 44	500.0 mu, mPV=6.1(sp), RmH:21 s 20 u, MLH=5.4,
	ei	03 06.5	RmH:16s 17.5 u.
	eiS	07 49	
	e	12 01	
	e	16 00	
	Q	20	
	Qm	25	
	R	30	
	Rm	32.5	
	Rm	36	
8	eiP	05 36 19	C.Aftershock 51.2°N 157.9°E, H=05 24 47.3, h=
	ei	36 44	68 km(ISC), m=5.1 ISC, Dc=74.5°.
8	iP	05 58 43.0	C. North Atlantic Ocean 52.7°N 33.3°W, H=
	ei	59 31	05 52 40.5, h=34 km(ISC), m=5.2 ISC, Dc=29.6°,
	ei	06 00 08	TPV=1.5 sec, A=48.0 mu, mPV=5.1(sp), LmN:17 s
	Lm	08.5	3.3 u, MLH=5.2.
8	eP	09 30 37	Kodiak Isl. region 56.8°N 152.3°W, H=09 19 06,
	ei	30 45.5	h=16 km(ISC), m=4.5 ISC, Dc=73.1°.
	ei	31 32.5	
8	ePKIKP	10 51 16	Solomon Isl. 8.1°S 156.4°E, H=10 32 05.2, h= 20 km(ISC), m=5.0 ISC, Dc=127.6°.
8	ePKIKP	11 29 54.5	Tonga 15.0°S 175.4°W, H=11 10 22, h=40 km(ISC),
	e	31 24	m=5.1 ISC, Dc=144.2°, LmN:20 s 1.5 u, MLH=5.7.
	Lm	12 35	
8	eiPg	11 34 28.5	D=1.4°.
	i	34 29.1	
	iSg	34 46	
8	eiPg	11 39 58	
	ei	40 11.5	
8	eiPg	11 41 10.5	D=1.9°.
	eiSg	41 36	
8	eP	13 51 13	Eastern Mediterranean Sea 35.8°N 31.0°E, H=
	ei	52 12.5	13 46 51.9, h=50 km(ISC), m=4.4 ISC, Dc=18.5°.

Date	Phase	h m s	Remarks
8	eiP	22 22 28	D. Kodiak Isl. region 56.6°N 152.3°W, H=22 10 57.7, h=31 km(ISC), m=5.0 ISC, Dc=73.2°, LmN:20s 1.5 u, MLH=5.4.
	ei	23 07	
	eS	31.9	
	ei	32 07	
	eL	52	
	Lm	58	
8	eP	23 58 38	Aleutian Islands 52.4°N 173.6°E, H=23 46 51.0, h=41 km(ISC), m=4.8 ISC, Dc=76.5°.
	ePcP	58 50.5	
9	eiP	02 47 12	Costa Rica 9.5°N 84.2°W, H=02 34 24.7, h=50 km(ISC), m=5.3 ISC, Dc=88.3°.
	e	48 42	
9	eiP	02 55 00	Costa Rica 9.5°N 84.2°W, H=02 42 10.3, h=44 km(ISC), m=5.7 ISC, Dc=88.4°, LmH:22s 2.5 u, MLH=5.4.
	e	57 51	
	e	03 05 49	
	eL	22	
	Lm	29	
9	eiPKIKP	15 08 42	New Hebrides 14.1°S 166.6°E, H=14 49 24.6, h=63 km (ISC), m=5.3 ISC, Dc=137.6°.
	e	12 14	
9	eiP	19 02 57	Alaska 60.2°N 146.7°W, H=18 51 47.5, h=33 km(ISC), m=4.6 ISC, Dc=69.2°.
9	eiP	20 20 08.1	Kodiak Isl. region 56.5°N 152.2°W, H=20 08 35.8, h=14 km(ISC), m=5.2 ISC, Dc=73.3°.
10	eP	10 45 46	Northern Columbia 6.8°N 73.0°W, H=10 33 35.7, h=163 km(ISC), m=5.0 ISC, Dc=83.3°.
10	iP	10 51 35.1	C. Aleutian Islands 53.2°N 171.0°E, H=10 39 52.8, h=25 km(ISC), m=5.1 ISC, Dc=75.3°, TPV=0.8 s, A=22.8 mu, mPV=5.3(sp).
10	eiP	16 51 07	Near Coast of Central Chile 31.4°S 71.0°W, H=16 36 14.6, h=58 km(ISC), m=5.6 ISC, Dc=110.7°, LmH:20 s 1.6 u, MLH=5.7.
	ePP	55 15	
	ei	56 10	
	eL	17 32	
	Lm	39.5	
10	eP	22 39 28	Off Coast of California 41.4°N 125.4°W, H=22 27 02.9, h=33 km(ISC), m=5.1 ISC, Dc=82.5°.
11	eiP	06 47 49.5	Dodecanese Isl. 35.6°N 27.1° E, H=06 43 46.4, h=0 km(ISC), Dc=17.0°.
11	eiP	16 17 29.3	Aleutian Islands 52.8°N 173.1°E, H=16 05 42, h=21 km(ISC), m=4.9 ISC, Dc=76.0°.
11	eiP	16 50 33	Afghanistan - USSR 38.9°N 70.6°E, H=16 42 50.7, h=3 km(ISC), m=4.7 ISC, Dc=40.6°.
	eiPP	52 11	
11	iP	17 30 38.0	C. Mexico 18.4°N 102.3°W, H=17 17 33.9, h=66km(ISC), m=5.5 USCGS, Dc=92.2°, TPV=1.5 s, 76.2 mu, mPV=5.4 (sp).
	ei	30 48	

Date	Phase	h m s	Remarks
11	eiP	18 37 39.5	Kodiak Isl. region 57.1°N 153.4°W, H=18 26 09, h=7 km(ISC), m=4.9 ISC, Dc=72.8°.
11	iP	23 11 53.7	C. Kodiak Isl. region 56.6°N 152.1°W, H=23 00 22.9 h=24 km(ISC), m=5.3 ISC, Dc=73.2°, LmH:18 s 1.5 u, MLH=5.3, TPV=2.0 s, A=96.1 mu, mPV=5.5(sp).
	ei	13 28	
	eiPP	14 46	
	eS	21 17	
	ei	21 25	
	ei	26 23	
	e	30 10	
	eL	37	
	Lm	48	
12	e	12 01 55	
	eiSg	02 06.5	
	Lm	02 11	
12	eiPg	12 36 10.7	Switzerland 47.9°N 8.5°E, H=12 34 48, h=0 km(ISC), Dc=4.5°.
	ei	36 54.2	
	eiSg	37 09.2	
12	ePKIKP	23 34 57	New Hebrides 17.9°S 168.0°E, H=23 15 30.0, h=33 km(ISC), m=5.2 ISC, Dc=141.5°.
	ei	35 04	
12	ePKP	23 56 30	Near coast of Central Chile 38.2°S 73.2°W, H=23 37 37, h=7 km(ISC), m=5.6 ISC, Dc=116.8°, LmH:22 s 16 u, MLH=6.6.
	eiPP	57 36.5	
	ei	00 03 15.5	
	eiPS	07 18	
	ePPS	08 37	
	eiSS	13 50	
	eL	31	
	Lm	42	
	Lm	46.5	
13	ePKP	03 54 05	Aftershock 38.1°S 73.0°W, H=03 35 17.5, h=47 km (ISC), m=5.6 ISC, Dc=116.6°, LmN:22 s 4 u, MLH=6.0.
	ePP	55 07	
	e	04 05 09	
	eL	30	
	Lm	42	
13	eiPKIKP	04 46 43.2	S. of Fiji 23.6°S 179.7°W, H=04 27 54.1, h=537 km (ISC), m=5.0 ISC, Dc=151.4°.
	iPKP2	46 59.8	
	ei	48 57	
	ei	49 01	
13	ei	12 49 54.5	
	ei	50 13.5	
	ei	50 57	
13	iPg	13 00 19.5	C. D=0.2°. Explosion?
	iSg	00 22.0	
	Lm	00 24	
13	eiPg	14 31 25	D=1°.
	eiSg	31 38	

Date	Phase	h m s	Remarks
14	eiPg	12 42 21	
	eiSg	42 45.6	
14	iPg	13 06 29.8	D=1.3°.
	i	44.8	
	iSg	46.3	
14	iPg	13 59 42.3	D=1.5°.
	i	14 00 00.8	
	iSg	00 02	
14	eP	14 26 12	Southern Nevada. Nuclear Explosion "Duryea" 37.2°N 116.5°W, H=14 13 46.3, h=34 km(ISC), m=5.4 ISC, Dc=83.0°.
14	eiPn	15 44 28	D=1.8°.
	iPg	44 30.4	
	iSg	44 53.8	
14	iP	18 55 42.0	Crete 34.6°N 23.9°E, H=18 51 44, h=14 km(ISC), m=4.8 ISC, Dc=16.9°, TPV=1.0 s, A=58.0 mu, mPV=4.7(sp).
	ei	56 27	
	Lm	19 01.6	
14	eiP	19 09 17	Aftershock 34.5°N 24.1°E, H=19 05 16, h=0 km(ISC), Dc=17.0°.
14	eiP	21 13 56.4	Afghanistan - USSR 38.9°N 70.5°E, H=21 06 15.2, h=12 km(ISC), m=5.1 ISC, Dc=40.6°, TPV=1.0 s, A=33.5 mu, mPV=5.0(sp).
	eiPP	15 30	
15	eP	05 10 03	Aleutian Islands 51.1°N 174.8°E, H=04 58 07.3, h=40 km(ISC), m=4.7 ISC, Dc=77.8°.
15	eiPKP	06 54 20	Tonga 21.6°S 174.5°W, H=06 34 32.9, h=47 km(ISC), m=4.5 ISC, Dc=150.8°.
15	ePg	08 45 17	D=2.1°.
	eiSg	45 44	
15	eiPg	10 13 56	D=1.1°.
	eiSg	14 10	
15	eiPg	12 46 03.6	D=1.7°.
	eiSg	46 26.6	
15	e	12 47 09	
	eiSg	47 40.5	
15	eiPg	13 09 09.7	D=1.8°.
	eiSg	09 34.2	
15	ePg	13 38 12	D=1.8°.
	eiSg	38 36	
15	ePn	15 39 33	D=1.9°.
	eiPg	39 36	
	eiSg	40 02	

Date	Phase	h m s	Remarks
15	eiPg	14 09 55	D=1.8°.
	eiSg	10 19	
15	eiP	18 11 50	C. Japan 36.5°N 141.2°E, H=17 59 33.8, h=49 km (ISC), m=5.0 ISC, Dc=81.9°, TPV=1.0 s, A=15.1 mu, mPV=5.6(sp).
16	iP	01 38 43.5	C. Kodiak Isl. region 56.9°N 153.6°W, H=01 27 14.1 h=23 km(ISC), m=5.6 ISC, Dc=73.0°, TPV=1.7 s, A=164.7 mu, mPV=5.9(sp), LmH:19 s 7.5 u, MLH=6.0.
	ei	40 03	
	eiPP	41 28	
	eiS	48 10	
	ei	48 28	
	eL	02 03	
	Lm	17.4	
	Lm	21	
16	eiPg	08 05 52.8	Czechoslovakia. Explosion of 6 Tons 50°47.4'N 14°31.5'E PRU, Dc=0.8°.
	iSg	06 04.9	
16	eiP	10 25 50.6	C. Japan 36.1°N 141.7°E, H=10 13 25.8, h=38 km (ISC), m=5.1 ISC, Dc=83.3°, TPV=1.5 s, A=38.2 mu, mPV=5.4(sp), LmN:16 s 2.5 u, MLH=5.7.
	ei	26 28	
	eL	57	
16	ePg	10 43 15	D=2.3°.
	ei	43 37.5	
	eiSg	43 45	
16	eiP	11 43 25.6	D. Dominian Rep. region 19.0°S 70.3°W, H=11 32 00, h=23 km(ISC), m=4.9 ISC, Dc=72.4°.
	e	43 35	
16	iPg	14 12 03.0	Germany 51.3°N 12.7°E, Explosion of 5 Tons, H=14 11(CLL), Dc=1.7°.
	i	12 26.8	
	iSg	12 30.5	
16	eP	14 52 19	Congo 0.8°N 29.9°E, H=14 43 17.8, h=11 km(ISC), m=5.1 ISC, Dc=50.8°.
	ePcP	53 38	
16	ePKIKP	15 42 16	D. W. of Tonga 21.2°S 178.4°W, H=15 23 27.4, h=490 km(ISC), m=5.0 ISC, Dc=149.5°.
	iPKP1	42 21.5	
	iPKP2	42 28.3	
	ei	44 20	
17	eP	05 40 35	Japan 33.6°N 141.1°E, H=05 28 08.7, h=50 km(ISC), Dc=84.2°.
17	ePKIKP	06 57 46	Samoa region 15.0°S 173.1°W, H=06 38 06.2, h=30 km(ISC), m=4.6 ISC, Dc=144.5°.
17	iPg	09 43 35.2	D=1.5°.
	ei	43 35.2	
	iSg	43 37.2	
18	eiP	08 22 39.5	C. Gulf of Aden 13.0°N 48.4°E, H=08 14 22, h=84 km(ISC), m=5.1 ISC, Dc=46.1°.
	eipP	22 58.1	
	eiPP	24 30.7	

Date	Phase	h m s	Remarks
18	eP	10 02 11	Greece 38.8°N 21.5°E, H=09 59 22.7, h=39 km(ISC), m=4.3 ISC, Dc=12.2°.
	ei	04 41.5	
18	ePKP	10 52 51	W. of Tonga 20.2°S 178.1°W, H=10 34 08.0, h= 576 km(ISC), m=4.1 ISC, Dc=148.6°.
18	eiPg	12 39 49.5	D=1.7°.
	eiSg	40 12.5	
20	eiPP	02 50 39	Marianas 18.8°N 146.9°E, H=02 32 50, h=6 km(ISC), m=5.0 ISC, Dc=99.6°, MLH=5.3, LH:17 s0.7 u.
	eL	03 22	
	Lm	34	
20	ei	06 15 15	
20	eiPP	06 18 26.5	Marianas 18.9°N 146.9°E, H=06 00 40, h=35 km(ISC), m=4.9 ISC, Dc=99.6°.
20	eiPg	10 50 14	D=1°.
	eiSg	50 27.5	
20	ePg	12 56 30.5	D=1.5°.
	eiSg	56 49.2	
20	eiPg	12 57 56.5	D=1.8°.
	eiSg	58 19.6	
20	eP	14 42 26.3	China 37.2°N 114.9°E, H=14 31 25.3, h=33 km(ISC), m=4.7 ISC, Dc=68.4°.
	Lm	15 10	
20	e	14 55 05	
	eSg	55 29	
20	eiPg	15 43 51.3	
	e	44 11.5	
	ei	44 19.5	
20	iPg	16 39 07.3	D=1°.
	iSg	39 21.8	
20	ePP	16 43 55	Marianas 18.8°N 147.0°E, H=16 26 20, h=44 km(ISC), m=5.3 ISC, Dc=99.6°.
	ei	44 04	
20	eiP	16 47 24.8	Eastern Caucasus 41.7°N 48.2°E, H=16 42 06.6, h= 37 km(ISC), m=5.3 ISC, Dc=24.7°, RmH:18 s 17 u, MLH=5.6, SH:9 s 2.1 u, MSH=5.8.
	i	47 33.0	
	ePP	48.0	
	eiPPP	48 13	
	eiS	51 55	
	eiSS	52 39	
	Q	54 04	
	R	55 41	
	Rm	58.8	
21	iP	04 05 34.8	C. Kazakhstan 49.9°N 78.1°E, H=03 57 58.1, h=C km (ISC), m=5.3 ISC, Dc=39.8°, TPV=1.0 s, A=33.6 mu, mPV=4.9(sp).
	eiPP	07 06	

Date	Phase	h m s	Remarks
21	eiP	06 49 27.3	Crete 34.5°N 25.7°E, H=06 45 26.9, h=51 km(ISC), m=5.0 ISC, Dc=17.5°, TPV=1.5 s, A=26.1 mu, mPV= 4.1(sp).
21	iPg	08 53 24.8	D=1.8°.
	iSg	53 47.5	
21	eiPg	11 28 00.8	D=1.0°.
	eiSg	28 13.8	
21	ePg	11 39 00.3	D=2.1°.
	eiSg	39 27.3	
21	ePg	12 41 05	
	ei	41 27.5	
	ei	41 38	
21	eiPg	15 00 17.3	D=1.4°.
	eiSg	00 34.3	
21	eP	15 57 46.5	Japan 35.8°N 141.9°E, H=15 45 23, h=20 km(ISC), m=5.1 ISC, Dc=82.7°, LmH:15 s 7.8 u, MLH=6.2, LmH: 14 s 8.3 u.
	ei	57 55.8	
	ei	58 19.8	
	ePP	16 00 56	
	eS	08 02	
	e	09 34	
	eL	30	
	Lm	37	
	Lm	39.8	
21	eiPKIKP	16 25 43.3	Tonga 20.8°S 173.4°W, H=16 05 54.2, h=33 km(ISC), m=4.4 ISC, Dc=150.2°.
21	iPKP	16 31 36.8	D. W. of Tonga 20.5°S 177.9°W, H=16 12 44.2, h= 500 km(ISC), m=4.5 ISC, Dc=148.9°.
21	eP	17 49 13	Japan 35.7°N 142.0°E, H=17 36 50.0, h=30 km(ISC), m=5.0 ISC, Dc=82.9°, LmH:14 s 3.5 u, MLH=5.9.
	e	52 19	
	e	57 55	
	eL	18 22	
	Lm	31	
22	eiP	03 02 54.8	Southwestern Russia 47.9°N 47.7°E, H=02 58 04.0, h=33 km(ISC), m=4.7 ISC, Dc=21.8°.
	e	36 20	
22	iPg	08 15 23.7	D=1.1°.
	iSg	15 39.2	
22	eiP	10 27 18.3	Kodiak Isl. region 56.8°N 151.9°W, H=10 15 50.2, h=33 km(ISC), m=4.8 ISC, Dc=73.0°.
22	eiPg	12 48 34.8	D=1.8°.
	iSg	48 58.8	
22	eiSg	12 49 22.3	
22	eP	13 18 46	

Date	Phase	h m s	Remarks
22	eiPg	13 46 40.3	D=1.8°.
	eiSg	46 04.3	
22	eiPg	15 05 56.2	Germany 50.5°N 10.0°E, Explosion H=15 05 06(HAN), Dc=2.9°.
	ei	05 59.8	
	eiSn	06 18.8	
	ei	06 34.3	
	iSg	06 36.3	
22	eiPKIKP	17 13 48.6	D. W. of Tonga 18.1°S 148.4°W, H=16 55 09.9, h=568 km(ISC), m=4.3 ISC, Dc=146.5°.
22	eiP	23 38 46.6	D. Kodiak Isl.region 57.4°N 152.3°W, H=23 27 20.3, h=23 km(ISC), m=5.8 ISC, Dc=72.5°, TPV=1.9 s, A=285.6 mu, mPV=6.1(sp), LmH:19 s 2.1 u, MLH=5.4.
	ei	38 52.7	
	ei	39 31	
	eiPP	41 28	
	eiS	48 03	
	Lm	00 15	
23	eiP	00 23 25.7	D. Celebes 0.8°S 122.2°E, H=00 09 33.0, h=27 km (ISC), m=6.0 ISC, Dc=101.9°,TPV=2.7 s, A=123.0 mu, mPV=6.1(sp), RmH:20s 24 u, MLH=6.7.
	ei	26 46	
	eiPP	27 41.5	
	eiPPP	29 54	
	Q	55	
	Qm	01 02	
	Rm	10	
	Rm	14	
23	eP	00 47 49	
23	eiP	01 08 35.2	C. Greenland Sea 73.5°N 8.3°E, H=01 03 24.0, h=33 km(ISC), m=4.7 ISC, Dc=23.8°, TPV=2.1 s, A=122.7 mu, mPV=5.2(sp).
23	ePKP	03 48 18	Tonga region 23.8°S 175.3°W, H=03 28 23, h=42 km (ISC), m=5.0 ISC, Dc=152.8°.
23	eiPKP2	07 10 32.7	New Zealand 41.6°S 174.4°E, H=06 49 40.0, h=18 km (ISC), m=5.6 ISC, Dc=163.7°.
	ei	10 38	
23	eiPg	09 01 25.2	D=1.6°.
	iSg	01 44.8	
23	eP	09 10 31	Celebes 0.5°S 122.2°E, H=08 56 46, h=75 km(ISC), m=5.8 ISC, Dc=101.7°, LmH:21 s 3.6 u, MLH=6.0.
	e	11 07	
	e	14 27	
	eiPP	14 44	
	eS	22 10	
	eiSSP	29 22	
	e	32 22	
	eL	46	
	Lm	10 01.5	
23	e	09 26 39	
23	eiPg	09 28 03.2	D=1.0°.
	eiSg	28 15.2	

Date	Phase	h m s	Remarks
23	eP	11 11 01	Greece 39.0°N 21.3°E, H=11 08 09.9, h=38 km(ISC), m=4.4 ISC, Dc=12.0°.
	ei	11 48.8	
23	ei	16 16 37.9	
	ei	16 52.5	
24	eP	15 25 26	Aleutian Islands 52.7°N 168.9°W, H=15 13 31.5, h=60 km(ISC), m=4.6 ISC, Dc=77.6°.
25	eSg	00 27 05	Poland 50.2°N 19.1°E, H=00 25 26.8, m=2.5(WAR), Dc=3.0°.
25	eiP	08 08 37.8	Carlsberg Ridge 6.5°N 60.2°E, H=07 59 11, h=248km (ISC), m=4.4 ISC, Dc=57.8°.
	e	08 49.5	
25	eiPKP	08 53 28.6,	Tonga 19.1°S 175.0°W, H=08 34 05, h=210 km(ISC), m=4.1 ISC, Dc=148.3°.
25	eP	09 32 19	Ascension Isl. region 7.0°S 11.7°W, H=09 22 05.3, h=33 km(ISC), m=4.4 ISC, Dc=62.2°.
25	eiPKIKP	11 00 40	W. of Tonga 21.1°S 178.7°W, H=10 41 58.2, h=557 km(ISC), m=4.9 ISC, Dc=149.3°.
	iPKP	00 45.3	
	i	00 52.8	
	ei	02 55	
25	eiPg	12 41 55.5	D=1.6°.
	iSg	41 17.5	
25	iPg	21 39 46.8	Austria 48.4°N 15.5°E, H=21 39 13.5(VIE), Dc=1.7°.
	iSg	40 08.8	
25	eiP	23 30 15	Kirgiziya 41.4°N 69.2°E, H=23 22 49.5, h=5 km(ISC), m=4.9 ISC, Dc=38.4°, TPV=1.2 s, A=17.5 mu, mPV=4.7(sp), LmV:8 s 0.5 u, MLH=4.8.
	eiPP	31 39	
	Lm	46	
26	eiP	05 46 33.8	Turkey 38.0°N 38.4°E, H=05 41 51, h=19 km(ISC), Dc=20.9°.
26	eiP	10 56 24.5	Burma 24.9°N 96.5°E, H=10 45 33.6, h=1 km(ISC), m=4.8 ISC, Dc=66.3°.
26	ei	13 05 49.5	Poland 50.3°N 18.8°E, H=13 04 56.0(WAR), Dc=2.8°.
	ei	06 05.5	
	eiSg	06 27	
26	eiPg	13 54 24.3	
	ei	54 34.8	
26	eiPKIKP	19 52 45	D. W. of Tonga 20.1°S 178.3°W, H=19 34 02.3, h=582 km(ISC), m=4.7 ISC, Dc=148.5°.
	eiPKP2	52 51	
26	eiPKP	23 26 36	W. of Tonga 20.9°S 178.0°W, H=23 07 33, h=402 km (ISC), m=4.3 ISC, Dc=149.4°.

Date	Phase	h m s	Remarks
27	eP	00 44 13.5	Kurile Isl. 47.0°N 152.8°E, H=00 32 26.8, h=65 km (ISC), m=4.6 ISC, Dc=76.9°.
27	e eiSg	12 15 31 16 00	
27	eiPg eiSg	13 11 10.5 11 32.5	D=1.6°.
27	ePg eiSg ei ei	13 11 54 11 17 12 48 13 23	D=1.6°.
27	ePn eiPg eiSg	17 30 41 30 42.5 31 05	D=1.8°.
27	eiP i ei eiS Q Qm Rm	19 53 57.8 54 05.0 54 45.8 58 10 20 00 40 02.4 04.3	D. Turkey 38.1°N 42.5°E, H=19 48 51, h=28 km(ISC), m=5.0 ISC, Dc=23.2°, RmH:19 s 5.6 u, MLH=5.5, SH: 9 s 3.2 u, MSH=5.7.
27	ePKP	21 52 18	S. of Fiji 25.0°S 179.8°E, H=21 33 15.0, h=474 km (ISC), m=4.6 ISC, Dc=152.6°.
28	eiPKP	00 36 35	W. of Tonga 21.9°S 179.1°W, H=00 17 49.3, h=577 km (ISC), m=4.6 ISC, Dc=149.9°.
28	ePKP2	01 36 14	Auckland Isl. region 49.2°S 164.4°E, H=01 15 34.2, h=14 km(ISC), m=5.4 ISC, Dc=160.5°.
28	eP ei e	11 50 31 51 21 53 38	Greece 38.9°N 21.3°E, H=11 47 33.9, h=53 km(ISC), m=4.3 ISC, Dc=12.1°.
28	eiPg eiSg	13 00 33 00 46	Czechoslovakia, Explosion of 5.4 Tons 49.2°N 13.8°E, H=13 00(PRU), Dc=1.0°.
28	ei ei	14 20 37 20 43.5	Germany 51.4°N 12.9°E, Explosion of 3.3 Tons, H= 14 20(CLL), Dc=1.7°.
28	ei eiSg	15 13 06 13 35.4	
28	eFKIKP eiPKP2 ei	17 16 06 16 18 16 49.4	Tonga 19.2°S 173.5°W, H=16 56 22.0, h=36 km(ISC), m=5.1 ISC, Dc=148.6°.
28	eiPKP2 ei eL Lm	17 33 18 33 32 18 14 25.5	Tonga 19.3°S 173.4°W, H=17 13 34.7, h=56 km(ISC), m=5.2 ISC, Dc=148.8°, LmH:19 s 1.9 u, MLH=5.9.

Date	Phase	h m s	Remarks
28	eP e	18 19 11 21 32	Carlsberg Ridge 4.2°N 62.8°E, H=18 09 08, h=123 km (ISC), m=4.8 ISC, Dc=61.1°.
28	eP	22 42 20	Off coast of Oregon 43.8°N 127.8°W, H=22 30 06.8, h=33 km(ISC), m=4.7 ISC, Dc=81.0°.
29	eiP eiPcP ei	01 58 30.3 58 40.2 58 48.3	D. S. of Alaska 53.9°N 157.5°W, H=01 46 43.1, h= 30 km(ISC), m=5.1 ISC, Dc=76.2°, TPV=1.0 s, A= 23.0 mu, mPV=5.3(sp).
29	iPg iSg	13 32 02.2 32 14.7	
29	e eiSg	17 25 09.5 25 46.5	
29	e e e	22 54 50 55 39 56 07	
29	eiP ePcP ei	23 15 15 15 26.7 15 41.5	Off coast of Kamchatka 52.3° N 160.5°E, H= 23 03 41.8, h=44 km(ISC), m=4.7 ISC, Dc=74.1°.
30	eiPn iPg eiSg	08 38 19 38 20.5 38 34	
30	iPg iSg Lm	09 32 48 32 51.1 32 54.5	Czechoslovakia, Explosion of 6.8 Tons 50°10.5'N 14°23.8'E(PRU), Dc=0.2°.
30	eiP ei ei e eL Lm	13 48 48.3 49 32.3 51 08 55 12 14 03.6 08.4	C. Kirgiziya 41.1°N 71.9°E, H=13 41 12.7, h=39 km (ISC), m=5.0 ISC, Dc=40.3°, LmH:16 s 1.7 u, MLH= 5.1, TPV=1.0 s,A=19.8 mu, mPV=4.7(sp).

Date	Phase	h m s	Remarks
1	eiP	16 36 05.2	Peru-Brazil 8.3°S 77.2°W, H=16 22 54.2, h=137km (ISC), m=5.7 ISC, Dc=95.5°, MLH=5.8 PRU, LmE: 18s 1.1 u, SH:12 s 3.1 u.
	eipP	36 45.2	
	ei	39 54	
	eiSKS	46 27	
	eiS	47 07	
	eiSP	48 19	
	e	52 47	
	Lm	17 15.4	
1	eP	18 43 14	Japan 30.7°N 140.6°E, H=18 30 40.9, h=105 km(ISC) m=5.0 ISC, Dc=86.6°.
1	eP	22 32 37	North Atlantic Ridge 23.9°N 45.3°W, H=22 23 22.2,
	ei	32 50	h=33 km(ISC), m=4.6 ISC, Dc=52.9°.
2	eSg	02 05 05	Poland 50.3°N 18.8°E, H=02 03 36.2(WAR), Dc=2.5°.
2	ePKIKP	10 11 39.5	New Britain 6.0°S 149.7°E, H=09 52 49.1, h=54 km
	e	23 29	(ISC), m=5.2 ISC, Dc=122.3°, LmH:22 s 2.9 u.
	eL	50	
	Lm	11 05	
2	iPKIKP	11 12 10.0	D. Tonga Islands 18.1°S 178.3°W, H=10 53 29.2, h=
	iPKP2	12 13.0	544 km(ISC), m=4.6 ISC, Dc=146.6°.
2	eiPg	11 30 11.5	Explosion of 19 Tons 50°35.2′N 14°03.2′E, Dc=
	i	30 14.5	75 km.
	i	30 24.5	
	ei	30 31	
	Lm	30 52	
2	eiPg	11 36 09	D=1.8°.
	eiSg	36 33	
2	ei	12 39 20.5	
	eiSg	39 33	
2	eP	13 56 51	Turkey 38.2°N 42.6°E, H=13 51 43, h=55km (ISC), Dc=23.2°.
2	eP	14 00 07	Turkey 38.1°N 42.6°E, H=13 55 05, h=55 km(ISC),
	ei	01 01	m=4.6 ISC, Dc=23.3°.
	ei	04 25	
2	e	15 18 01	
	eiSg	18 06.5	
2	ePP	16 57 48	Bali Island 8.6°S 114.9°E, H=16 39 43, h=93 km(ISC) m=5.5 ISC, Dc=103.2°.
2	eiP	23 17 28	C. Turkey 38.1°N 42.5°E, H=23 12 24.7, h=50 km(ISC)
	ei	18 30	m=4.7 ISC, Dc=23.2°, MLH=4.6 PRU, LmH:18 s 1.9 u.
	eiS	21 48	
	e	22 29	
	eL	24.5	
	Lm	27.5	

Date	Phase	h m s	Remarks
3	eiP	04 10 45.2	
3	ei	12 44 52	
	ei	45 23	
3	e	13 22 01	
	eiSg	22 23.5	
3	eiPg	16 02 04.6	D=1.6°.
	eiSg	02 25.5	
4	eP	06 39 45	Greece 38.9°N 21.5°E, H=06 36 59, h=27 km(ISC),
	e	42 06	m=4.9 ISC, Dc=12.1°, MLH=5.1 PRU, LmH:10 s 10 u,
	Lg	44 38	
	Lm	45	
4	eP	07 41 51	Greece 38.9°N 21.5°E, H=07 38 55, h=15 km(ISC),
	e	42 47	m=4.3 ISC, Dc=12.1°.
4	eiPKIKP	08 05 50.6	Tonga Islands 15.4°S 174.9°W, H=07 46 41.2, h= 237 km(ISC), m=4.5 ISC, Dc=144.7°.
4	eiPKIKP	11 05 21.5	Tonga Islands 17.3°S 172.6°W, H=10 45 40.1, h=
	ei	05 31.4	33 km(ISC), m=4.4 ISC, Dc=146.9°.
4	eiPg	12 42 49	D=1.8°.
	iSg	43 12.5	
4	e	13 30 36	
	eiSg	30 48	
4	ei	16 20 59	
	ei	21 03.5	
	ei	21 34	
4	eiPKPKP	20 38 30.0	C. Tonga Islands 16.2°S 173.5°W, H=20 19 04.0, h=
	eipPKIKP	39 04.6	111 km(ISC), m=4.8 ISC, Dc=145.7°.
4	eiP	21 52 39.5	D. Turkey 37.7°N 27.7°E, H=21 49 01.8, h=37 km(ISC)
	ei	53 31	m=4.7 ISC, Dc=15.5°, MLH=5.0 PRU, TPV=1.5 s, A=
	eiS	55 36	28.5 mu, mPV=4.2, QmH:22 s 5.7 u, RmH:11 s 5.1 u.
	Q	56 44	
	Qm	57.5	
	Rm	58.7	
5	eP	07 46 08	
	e	46 15	
5	iPg	08 59 52.5	B=85 km. Explosion.
	iSg	09 00 02.5	
	Lm	00 10.5	
5	e	10 44 31	
	e	44 57	
	eiSg	45 06	

Date	Phase	h m s	Remarks
5	ei	10 56 10	
	ei	56 32	
	ei	56 45	
5	iPg	11 47 16	D=1.1°.
	ei	47 28.5	
	eiSg	47 30	
5	ei	12 45 33	
	i	45 55.5	
	ei	46 33	
5	ePg	13 11 45	D=1.5°.
	eiSg	12 04	
5	iPg	14 06 16.2	D=2°.
	eiSg	06 43	
5	eiP	14 33 39.6	C.Taiwan region 24.3°N 122.5°E, H=14 21 22.3, h=
	ei	34 37	53 km(ISC), m=5.6 ISC, Dc=82.5°, MLH=6.4, TPV=
	eiS	43 57	1.7 s, A=52.9 mu, mPV:5.5, QmH:28 s 16 u, RmH:
	ei	44 30	18 s 13 u.
	e	49 08	
	eSSS	53.5	
	Q	15 00	
	Qm	05.5	
	Rm	08.5	
5	eiP	15 22 01	Iceland region 61.5°N 27.4°W, H=15 16 32.0, h=
			33 km(ISC), m=4.7 ISC, Dc=25.8°.
5	eP	15 30 41	Iceland region 61.5°N 27.4°W, H=15 25 12.5, h=
			33 km(ISC), m=4.7 ISC, Dc=25.8°.
5	eiPKP1	15 42 19.5	Fiji Islands region 21.8°S 179.3°W, H=15 23 34.9,
	eiPKP2	42 27.5	h=595 km(ISC), m=4.6 ISC, Dc=149.8°.
5	eiP	15 58 10.3	Iceland region 61.5°N 27.5°W, H=15 52 40.9, h=
	ei	58 25	33 km(ISC), m=4.9 ISC, Dc=25.8°.
	eiPPP	59 08	
5	e	16 09 25	
	eiSg	09 44.3	
6	eP	00 19 17	India 22.1°N 92.8°E, H=00 08 31, h=43 km(ISC),
	ei	19 45.5	Dc=66.0°.
6	eiP	02 47 52	Malawi 15.7°S 34.6°E, H=02 36 53.8, h=13 km(ISC),
	eiPcP	48 20	m=5.3 ISC, Dc=67.8°, TPV=1.1 s, A=14.5 mu, mPV=
			5.2.
6	eiP	04 05 15.7	Taiwan region 23.7°N 122.9°E, H=03 52 52.6, h=
			45 km(ISC), m=4.8 ISC, Dc=83.1°, TPV=1.7 s, A=29.4
			mu, mPV=5.0.
6	eiPKP	07 33 14	Fiji Islands 25.0°S 179.5°E, H=07 14 14.9, h=
			505 km(ISC), m=4.9 ISC, Dc=152.4°.

Date	Phase	h m s	Remarks
6	eiPg	08 07 09.5	D=1°.
	iSg	07 22	
	Lm	06 26	
6	ei	08 58 36	
	ei	58 41.5	
	ei(Sg)	58 49	
6	ePg	11 30 30	D=1°.
	eiSg	30 43	
6	eiPg	12 55 59.8	D=2.5°.
	eiSg	56 31.8	
6	eiPg	12 57 05	D=2°.
	eiSg	57 30.7	
6	e	12 58 23	eiSg 58 40.5.
6	iPg	13 10 11.2	D=2.1°.
	iSg	58 40.5	
6	iPg	13 10 11.2	D=2.1°.
	iSg	10 38.2	
6	eiPg	15 07 06	D=1.6°.
	eiSg	07 27.5	
6	eiP	15 12 26.3	Nevada 37.3°N 116.3°W, H=15 00 03.1, h=29 km(ISC), m=5.4 ISC, Dc=82.8°. Nuclear explosion "Chartreuse".
6	eiPKP2	20 13 24.2	Tonga Islands 19.4°S 173.6°W, H=19 53 46, h=100 km (ISC), m=4.7 ISC, Dc=148.8°.
7	ei	00 03 13	Yugoslavia 43.3°N 18.3°E, H=00 00 43.3(BEO), M=
	eiSn	03 52	3.2 BEO.
7	eiPn	00 41 04	Italy 43.2°N 10.9°E, H=00 39 21, h=0 km(ISC), Dc=
	ei	42 11	7.3°.
	ei	42 46	
7	iPKP	05 28 50.8	D. Fiji Islands 22.1°S 179.6°E, H=05 10 07.0, h= 587 km(ISC), m=4.1 ISC, Dc=149.8°.
7	eiPg	05 33 14	D=1.8°.
	i	33 15.0	
	eiSg	33 38.5	
7	eiPg	09 00 29	
	i	00 30.6	
	i	00 42	
	Lm	00 50	
7	e	09 37 09	
	eiSg	37 25	

Date	Phase	h m s	Remarks
7	ePg	10 05 28	D=2.4°.
	ei	05 52.5	
	eiSg	05 58.5	
7	iPg	11 01 26.3	D=1.4°.
	eiSg	01 44.3	
7	eP	11 28 08	Fiji Islands 38.0°N 112.6°W, H=11 15 57, h=33 km (ISC), Dc=80.8°.
7	iPg	12 58 10.6	D=1.5°.
	iSg	58 30.6	
7	eiP	13 11 56.5	Turkey 37.8°N 27.8°E, H=13 08 16.9, h=9 km(ISC),
	ei	12 03.6	m=5.0 ISC, Dc=15.5°, TPV=1.7 s, A=44.1 mu, mPV=
	ei	12 49	4.3, RmH:13 s 11 u, MLH=5.2.
	eiS	14 54	
	Q	15 32	
	Rm	17.7	
7	e	19 23 21	Poland 50.3°N 18.9°E, H=19 22 27.5(WAR), Dc=2.8°.
	eiSg	23 59	
7	eSg	21 06 03	Poland 50.3°N 18.9°E, H=21 04 30.0(WAR), Dc=2.8°.
7	eP	22 13.15	Black Sea 42.2°N 35.6°E, H=22 09 08, h=12 km(ISC), m=4.4 ISC, Dc=16.5°.
8	e	00 12 25	
	e	12 56	
8	eP	01 37 16	Kurile Islands region 44.9°N 150.5°E, H=01 25 19.0,
	e	37 28	h=35 km(ISC), m=4.6 ISC, Dc=78.0°.
8	eP	03 51 48	Greece 38.9°N 21.5°E, H=03 48 50.8, h=83 km(ISC), m=4.1 ISC, Dc=12.2°.
8	eiP	08 41 54	Kurile Islands region 44.9°N 150.5°E, H=08 29 57.5,
	e	42 07	m=4.6 ISC, Dc=78.1°.
9	eiP	00 47 00.7	Mediterranean Sea 34.4°N 26.4°E, H=00 42 53, h=
	eiPPP	47 26.3	13 km(ISC), m=5.3 ISC, Dc=17.8°, TPV=1.5 s, A=
	ei	49 06	250.0 mu, mPV=5.1, QmH:23 s 23 u, RmH:10 s 21 u,
	ei	49 43	MLH=5.7, RmV:10 s 8 u.
	eS	50 21	
	Q	51.7	
	Qm	53	
	Rm	55	
	Rm	57.3	
9	eP	03 09 55	Japan 38.5°N 139.3°E, H=02 57 50.5, h=36 km(ISC), m= 4.7 ISC, Dc=79.4°.
9	eiP	03 55 07	C. Turkey 37.1°N 31.0°E, H=03 51 10.1, h=132 km(ISC
	ei	55 41	m=4.9 ISC, Dc=17.9°.
	ei	57 33	

Date	Phase	h m s	Remarks
9	eP	04 39 50	Turkey 38.3°N 42.3°E, H=04 34 44, h=33 km(ISC), m= 4.3 ISC, Dc=23.0°.
9	eiP	06 12 35	D. Crete 34.3°N 26.4°E, H=06 08 29.6, h=43 km(ISC),
	ei	13 17.8	m=4.7 ISC, Dc=17.9°.
9	eP	06 27 47	Arabian 15.4°N 52.9°E, H=06 19 40, h=286 km(ISC), Dc=46.4°.
9	e	10 13 46	Italy 43.5°N 12.7°E, H=10 11 42(BCIS).
	eiSn	14 28	
9	e	12 46 09	
	eiSg	46 31	
9	ePKIKP	15 34 45	Tonga Islands 15.5°S 174.7°W, H=15 15 18, h=93 km
	ei	34 49.3	(ISC), m=4.4 ISC, Dc=144.8°.
9	ePn	18 05 29	D=1.2°.
	iPg	05 30.3	
	oSg	05 44.0	
9	ePKIKP	20 25 48	Tonga Islands 16.7°S 174.8°W, H=20 06 18.3, h=
	ei	25 54.2	66 km(ISC), m=4.4 ISC, Dc=144.9°.
9	eiPKIKP	21 50 13.6	Tonga Islands 15.1°S 174.6°W, H=21 30 41.2, h= 35 km(ISC), m=4.7 ISC, Dc=144.4°.
10	eP	02 51 51	Crete 34.4°N 26.5°E, H=02 47 48, h=64 km(ISC), m=
	e	52 24	4.4 ISC, Dc=17.9°.
10	eiP	10 20 50.4	C. Japan region 41.7°N 142.0°E, H=10 08 59.0, h=
	e	21 10	69 km (ISC), m=4.7 ISC, Dc=77.8°.
10	e	11 11 25	
	eiSg	11 51.5	
10	e	11 24 45	
	eiSg	25 11.5	
10	e	14 59 20	
	eiSg	59 23.6	
10	e	16 49 55	
	eiSg	50 08.6	
10	eiP	21 13 04.6	D.USSR-Mongolia border 51.9°N 98.9°E, H=21 04 07,
	ei	13 35	n=11 km(ISC), m=5.0 ISC, Dc=50.3°, LmH:13 s 2.9 u,
	eiPP	15 05	MLH=5.5, LmV:13 s 1.7 u.
	e	24 04	
	eL	31	
	Lm	36	
11	eP	01 26 55.5	Crete 34.4°N 26.4°E, H=01 22 51.9, h=50 km(ISC),
	ei	27 20	m=4.5 ISC, Dc=17.8°.

Date	Phase	h m s	Remarks
11	eiP	02 01 53.6	D. Afghanistan 34.5°N 69.9°E, H=01 54 00, h=59 km
	ei	02 36	(ISC), m=5.1 ISC, Dc=42.8°.
11	e	12 47 52	
	ei(Sg)	58 15	
	ei	12 48 54	
	ei	49 16	
	i(Sg)	49 50.5	
11	eiP	14 29 24.1	C. Kurile Islands 48.9°N 156.2°E, H=14 17 38.6, h=
	iPcP	29 37	41 km(ISC), m=5.6 ISC, Dc=76.2°, TPV=1.0 s, A=185.7
	ei	30 39	mu, mPV=6.1, RmH: 18 s 19 u, MLH=6.5.
	eiPP	32 20	
	eiS	39 09	
	Q	55	
	Qm	57.5	
	R	59 30	
	Rm	15 02	
11	iP	14 38 28.0	C. Kurile Islands region 48.9°N 156.3°E, H=14 26
	eiPcP	38 39	40.3, h=23 km(ISC), m=5.4 ISC, Dc=76.2°, TPV=1.5 s
	e	42 34	192.5 mu, mPV=5.9.
11	eiP	15 10 08	Crete 34.4°N 26.4°E, H=15 06 02.5, h=39 km(ISC),
	e	13 29	m=4.7 ISC, Dc=17.9°.
11	eiP	18 12 17	Kurile Islands region 48.8°N 156.4°E, H=18 00 29,
	e	12 41	h=24 km(ISC), m=4.5 ISC, Dc=76.2°.
11	eP	18 25 01	
11	eiPKP	21 17 46	Fiji Islands region 21.8°S 176.9°W, H=20 58 20,
			h=225 km(ISC), m=4.6 ISC, Dc=150.4°.
11	iP	21 51 23.5	C. Kurile Islands 48.8°N 156.3°E, H=21 39 32, h=
	eiPcP	51 35	4 km(ISC), m=5.5 ISC, Dc=76.3°, TPV=1.1 s, A=
	eS	22 01 10	112.5 mu, mPV=5.9, RmH:20 s 7.9 u, MLH=6.1.
	Q	17.5	
	Qm	20	
	R	21 30	
	Rm	23	
11	ei	23 33 50	
	ei	34 04	
11	ePKP2	23 41 40.5	Kermadec Islands 30.6°S 179.1°W, H=23 21 48.7,
			h=334 km(ISC), m=4.2 ISC, Dc=158.1°.
12	eiPKP1	01 35 49	Fiji Islands region 21.4°S 179.2°W, H=01 17 04.2,
	eiPKP2	35 57	h=589 km(ISC), m=4.1 ISC, Dc=149.5°.
12	e	02 53 16	
12	ePKIKP	08 36 29	Loyalty Islands 20.7°S 168.9° E, H=08 17 00.0, h=
			70 km(ISC), Dc=144.4°.

Date	Phase	h m s	Remarks
12	eiPg	09 59 37	D=86 km. Explosion?
	eiSg	59 46	
	Lm	59 53	
12	eP	11 51 01	China 40.1°N 48.2°E, H=11 42 43, h=6 km(ISC), m=
			4.5 ISC, Dc=44.8°.
12	eiP	12 28 48.4	Kurile Islands region 48.9°N 156.1°E, H=12 17 02,
			h=29 km(ISC), m=4.7 ISC, Dc=76.1°.
12	eiSg	14 57 36	
	ei	57 42.5	
12	eSg	15 07 04	Explosion of 4.5 Tons Dorheim-Hessen 50°97'N 9°22'E
			H=15 05 00.98(Moxa).
12	eiP	20 34 24	Aegean Sea 38.6°N 25.8°E, H=20 31 02.5, h=33 km
			(ISC), m=4.7 ISC, Dc=14.0°.
12	e	23 15 24	
13	iPg	04 39 47	D=1.8°.
	iSg	40 11	
13	eiPg	08 18 36.7	D=2.5°.
	eiSg	19 09.2	
13	eiPg	09 00 41.7	D=1.5°.
	eiSg	00 01.7	
13	eP	10 20 23	Mediterranean Sea 34.4°N 27.0°E, H=10 16 14, h=
			0 km(ISC), Dc=18.1°.
13	eiPKIKP	11 10 20.2	Tonga Islands 15.7°S 174.9°W, H=10 50 49.6, h=
			70 km(ISC), m=4.1 ISC, Dc=144.9°.
13	e	11 44 55	
	eiSg	45 07	
13	iPg	12 00 40.3	D=17 km. Explosion?
	iSg	00 42.3	
	Lm	00 44.8	
13	e	12 49 23	
	eiSg	49 48	
13	ei	12 50 28	
	eiSg	50 45	
13	eiPg	12 51 30	D=1.6°.
	eiSg	51 52	
13	eP	13 09 41	Crete 34.5°N 26.5°E, H=13 05 34.5, h=21 km(ISC),
			Dc=17.8°.
13	eiP	13 15 55.2	Crete 34.5°N 26.5°E, H=13 11 50.9, h=37 km(ISC),
	e	19 24	m=4.6 ISC, Dc=17.8°, LmH:10 s 1 u, MLH=4.4.
	Lm	23.7	

Date	Phase	h m s	Remarks
13	eiP	13 42 27	Nevada 37.1°N 116.0°W, H=13 30 02.1, h=21 km(ISC), m=5.6 ISC, Dc=83.0°, TPV=1.4 s, A=52.1 mu, mPV= 5.6.
13	eP	14 11 04	Kurile Islands region 49.8°N 157.4°E, H=13 59 22.5 h=43 km(ISC), m=4.2 ISC, Dc=75.6°.
13	eiP	14 31 11.7	Kurile Islands region 49.8°N 157.5°E, H=14 19 29.3 h=37 km(ISC), m=4.5 ISC, Dc=75.7°.
13	e ei(Sg)	16 01 45 02 16.5	
13	eiPKP	19 49 06.2	Tonga Islands 19.2°S 175.6°W, H=19 29 45, h=220 km (ISC), m=4.2 ISC, Dc=148.3°.
14	eP ei ePP eL Lm	17 12 19 12 28.8 15 29 42 51	Japan 34.2°N 139.0°E, H=16 59 50.9, h=23 km(ISC), m=4.8 ISC, Dc=82.9°, LmH:17 s 3 u, MLH=5.7.
14	eiP ePP	17 16 20 19 37	Japan 34.1°N 139.0°E, H=17 03 55.7, h=22 km(ISC), m=5.0 ISC, Dc=82.9°.
14	ePKIKP	19 57 06	Tonga Islands 15.6°S 174.5°W, H=19 37 31.6, h= 33 km(ISC), m=4.7 ISC, Dc=145.0°.
14	eiP eiPcP ei	20 39 04.5 39 22 39 35	D.Venezuela 10.4°N 63.0°W, H=20 27 30.7, h=38 km (ISC), m=5.4 ISC, Dc=74°, TPV=1.8 s, A=73 u, mPV= 5.4.
14	eP eiPP	23 04 04 04 12.7	Southern Greece 37.0°N 22.0°E, H=23 00 44.7, h= 40 km(ISC), m=4.5 ISC, Dc=14.1°.
15	eiP	07 45 32	Kurile Islands 48.8°N 156.3°E, H=07 33 43, h= 11 km(ISC), m=4.3 ISC, Dc=76.3°.
15	eiP	08 32 29	Greece 39.0°N 21.2°E, H=08 29 36.8, h=51 km(ISC), Dc=12.0°.
15	eiP	10 15 11	Dodecanese Islands 35.2°N 27.2°E, H=10 11 08, h= 34 km(ISC), m=4.5 ISC, Dc=17.5°.
15	eiP	11 39 36.4	
15	iP eiPP ei eiPP eiSKS ei eSS eL Lm Lm	14 58 04.5 58 15.8 59 11.5 15 01 10 08 07.5 09 07.5 12.7 24 32.5 35.5	C.S. Aleutian Islands 51.5°N 178.4°W, H=14 46 07, h=33 km(ISC), m=5.7 ISC, Dc=78.3°, TPV=1.7 s, A= 73.5 mu, mPV=5.5, LmH:22 s 8 u, MLH=6.1.

Date	Phase	h m s	Remarks
15	e	15 25 03	
16	eP e eiPKP eipPP	03 00 55 04 16 04 52.5 05 42	Banda Sea 7.0°S 129.4°E, H=02 46 39.2, h=182 km (ISC), m=5.7 ISC, Dc=111.2°.
16	eP	05 53 21	Uganda 0.6°N 30.1°E, H=05 44 19.9, h=33km(ISC), m=5.4 ISC, Dc=51.0°.
16	ePg eiSg	12 42 12.5 42 36	D=1.8°.
16	eP	13 04 55	Azores Islands region 36.2°N 34.3°W, H=12 57 41.7, h=33 km(ISC), m=4.6 ISC, Dc=37.5°.
16	eiP eipP	13 18 51 19 12.5	Japan 30.5°N 130.4°E, H=13 06 40.3, h=94 km(ISC), m=5.0 ISC, Dc=81.8°.
16	ePKIKP	15 10 26.5	Tonga Islands 15.9°S 174.1°W, H=14 51 00.9, h= 121 km(ISC), m=4.1 ISC, Dc=145.2°.
16	eP ei	17 35 00 35 05.4	Mediterranean Sea 34.5°N 26.5°E, H=17 30 56.1, h=41 km(ISC), m=4.6 ISC, Dc=17.8°.
16	eP	20 07 51	Iceland region 61.8°N 26.7°W, H=20 02 24.9, h= 33 km(ISC), m=4.3 ISC, Dc=25.5°.
17	iP ei ei eiPP	01 11 21.0 11 34 14 19 14 30	C. Japan 35.7°N 140.0°E, H=00 59 05.0, h=59 km (ISC), m=5.3 ISC, Dc=82.2°, TPV=1.1 s, A=32.5 mu, mPV=5.2.
17	eP ei eiPP eiPPP eiS ei eL Lm	07 12 28 13 11.5 14 39 15 14 23 17.5 23 51 29 32.5	Congo 0.8°N 30.0°E, H=07 06 33.3, h=35 km(ISC), h=35 km(ISC), m=5.5 ISC, Dc=50.8°, LmH:25 s 3.1 u, MLH=5.2.
17	ei ei eiSg Lm	12 03 56 04 02.5 04 07 04 10	
17	ei ei Lm	17 16 18 18 10.5 18 06.5	Chile 44.0°S 75.3°W, H=16 58 16.7, h=26 km(ISC), m=5.4 ISC, Dc=121.8°, LmH:22 s 1.1 u, MLH=5.5.
17	iPg ei ei	22 19 10.0 19 32 19 45.5	

Date	Phase	h m s	Remarks
17	eP	22 29 18	
18	eiPKP2	00 18 48	Kermadec Islands 29.8°S 176.7°W, H=23 58 20.6, h=33 km(ISC), Dc=158.1°.
18	e	03 22 03	Poland 50.3°N 18.9°E, H=03 21 13.0(WAR), Dc=2.8°.
	eiPg	22 05.1	
	eiSn	22 29	
	eiSg	22 43	
18	ePKP	04 01 08	Tonga Islands 20.7°S 179.3°W, H=03 41 18.3, h=33 km(ISC), m=4.0 ISC, Dc=149.9°.
18	eiP	04 06 43.5	
	ei	06 52	
18	eL	08 11	California 24.9°N 109.1°W, H=07 32 06, h=28 km (ISC), m=5.3 ISC, Dc=90.3°.
	Lm	19.5	
18	iPg	11 46 16	D=1.3°.
	eiSg	46 32.5	
18	e	12 42 09	
	eiSg	42 28	
18	e	12 46 01	
	e	46 28	
	ei	47 40	
	ei	48 11	
18	eiPg	12 54 41.5	D=1.4°.
	i	54 42.5	
	iSg	54 59	
18	eP	17 39 04	Borneo 6.0°N 116.6°E, H=17 25 53, h=52 km(ISC), m=5.3 ISC, Dc=93.2°.
19	eiP	06 06 52.5	China 39.8°N 77.9°E, H=05 58 40, h=27 km(ISC), m=4.6 ISC, Dc=44.8°.
	ePP	08 38	
19	eiP	07 18 16	Unimak Island region 54.0°N 164.1°W, H=07 06 28.5, h=37 km(ISC), m=5.6 ISC, Dc=76.3°, TPV=1.5 s, A=118.7 mu, mPV=5.8, LmH:21s 5.4 u, MLH=5.8.
	eiPcP	18 26.5	
	eiPP	21 13.4	
	Lm	48	
	Lm	08 00.5	
19	ePg	10 59 44	Explosion of 4.9 Tons 50°11'N 16°18'E, Dc=128 km.
	eiSg	59 59.5	
19	ePKP2	12 16 51	Kermadec Islands region 30.0°S 177.0°W, H=11 56 23.3, h=21 km(ISC), m=4.6 ISC, Dc=158.2°.
19	iP	14 08 54.9	C. Nevada 37.1°N 116.0°W, H=13 56 30.6, h=23 km (ISC), m=5.9 ISC, Dc=82.9°, TPV=1.4 s, A=93.7 mu, mPV=5.8.
	ei	09 24	
	ei	11 49	

Date	Phase	h m s	Remarks
19	ePg	16 00 20.4	D=1.1°.
	eiSg	00 39.9	
19	ePn	22 23 03	Italy 44.5°N 11.0°E, H=22 21 35, h=33 km(ISC), Dc=6.0°.
	eiPg	23 29	
	eiSn	24 10	
20	eiPn	00 55 50	France 43.1°N 0.1°E, H=00 52 58.4, h=35 km(ISC), m=4.4(ISC), Dc=12.1°, LmN:14 s 0.6 u.
	ei	56 04	
	ei	56 44	
	eiSg	59 28	
	Lm	01 17.5	
20	eiP	03 06 18	D. Ryukyu Islands 25.5°N 128.3°E, H=02 53 46.8, h=51 km(ISC), m=5.2 ISC, Dc=84.8°, TPV=1.0 s, A=59.7 mu, mPV=5.4.
	e	06 42	
20	iPg	05 13 19.9	D=1.8°.
	iSg	13 43.9	
20	ePn	07 38 45	Haute Silesie 50.3°N 19.0°E, H=07 38 00(BCIS), Dc=2.9°.
	eiPg	38 54	
	eiSg	39 30	
20	eP	07 49 31	
20	eiPg	09 01 26.4	
	ei	01 49.4	
20	eP	09 23 15	Crete 34.3°N 26.5°E, H=09 19 10.4, h=50 km(ISC), Dc=17.9°.
20	e	09 32 03	Marianas Islands 13.8°N 146.2°E, H=09 14 49.3, h=69 km(ISC), m=5.6 ISC, MLH=6 PRU, LmH:18 s 3.2 u.
	eiPKP	33 05	
	ei	39 21	
	e	40 33	
	eL	10 06	
	Lm	20	
20	eiPg	09 44 25.4	
	ei	44 35.9	
20	eP	11 56 04	Komandorsky Islands region 54.9°N 165.8°E, H=11 44 27.9, h=35 km(ISC), m=5.1 ISC, Dc=72.7°.
20	e	14 00 46	
	ei(Sg)	01 14.4	
20	iP	18 15 12.2	C. Philippine Islands region 19.4°N 122.1°E, H=18 02 35.9, h=53 km(ISC), m=5.4 ISC, Dc=86.1°, TPV=1.5 s, A=60.0 mu, mPV=5.4, LmH:18 s 0.8 u, MLH=5.1.
	i	15 24.8	
	eiPP	18 58	
	Lm	50.5	
20	eiP	20 16 53.2	Kirgizyia 40.6°N 73.4°E, H=20 09.04.5, h=53 km (ISC), m=4.8 ISC, Dc=41.5°.

Date	Phase	h m s	Remarks
21	eP	00 10 43	Vancouver Island region 50.1°N 129.8°W, H= 23 58 52.6, h=37 km(ISC), m=4.6 ISC, Dc=75.7°.
21	eiPKP eiPKP2	08 27 27 27 39	C. South of Fiji Islands 24.3°S 180.0°E, H= 08 08 30.0, h=510 km(ISC), m=4.8 ISC, Dc=152.0°.
21	eiPg ei	10 40 32.5 40 46.5	
21	eiPKP eipPKP	11 10 43 11 03	C. Tonga Islands 20.9°N 174.7°W, H=10 50 59.0, h=54 km(ISC), m=5.1 ISC, Dc=150.1°.
21	e eiSg	12 40 44 41 08	
21	e eiSg	12 41 46 42 09.5	
21	eP	22 17 36	Greece 37.8°N 23.1°E, H=22 14 22.2, h=105 km(ISC). Dc=13.6°.
21	eiPKIKP	22 58 17.4	New Hebrides Islands 19.0°S 169.4°E, H=22 39 15.3 h=242 km(ISC), m=5.0 ISC, Dc=143.1°.
22	ePKP	00 12 30	Tonga Islands 18.0°S 178.4°W, H=23 53 52.0, h= 574 km(ISC), m=4.8 ISC, Dc=146.4°.
22	ePKIKP	03 11 08	Solomon Islands 7.4°S 155.6°E, H=02 52 12.1, h= 78 km(ISC), m=5.2 ISC, Dc=126.5°.
22	eP e Lm	07 41 03 45 25 47.4	Turkey 38.7°N 27.9°E, H=07 37 29, h=23 km(ISC), m=5.1 ISC, Dc=14.8°, LmN:lo s 2 u, MLH=4.6°.
22	eP e	20 20 59 22 44	Crete 34.4°N 26.6°E, H=20 16 53.5, h=50 km(ISC), Dc=17.9°.
23	e	01 32 49	
23	eP	01 35 02	North Atlantic Ocean 52.8°N 34.0°W, H=01 29 01, h=101 km(ISC), m=4.6 ISC, Dc=30.0°.
23	ePKIKP	06 18 29	Tonga Islands 15.8°S 174.8°W, H=05 59 00.6, h= 82 km(ISC), m=4.4 ISC, Dc=145.1°.
23	ePKIKP e	08 07 11 07 33	Tonga Islands 16.7°S 173.1°W, H=07 47 28.5, h= 33 km(ISC), m=4.4 ISC, Dc=146.2°.
23	eiP e eL Lm	08 52 26.5 52 53 09 24 30.8	Japan 30.1°N 139.8°E, H=08 39 47.7, h=55 km(ISC), Dc=86.7°, LmH:14s 1.4u, MLH=5.5.
23	eL Lm	12 33 48.5	Revilla Gigedo Isl.reg. 21.3°N 108.7°W, H=11 51 27, h=30 km(ISC), m=5.2, LH=5.6, Dc=93.1°.

Date	Phase	h m s	Remarks
23	e eiSg	12 42 27 42 50	
23	e e ei eL Lm	14 40 28 40 37 40 54.5 15 15 28	Marianas Islands 14.0°N 146.3°E, H=14 22 33.0, h=40 km(ISC), m=5.4 ISC, Dc=114.1°, LmH:17 s 1.4 u.
23	e	16 50 56	
24	iPg iSg	05 06 41.2 07 05.7	D=1.8°.
24	eiP iPP ei e Lm Lm	09 42 39.2 42 53.5 43 33 45 30 47.5 48.5	Greece 37.3°N 21.9°E, H=09 39 26.5, h=34 km(ISC), m=4.8 ISC, Dc=13.7°, LmH:14 s 4.4 u, MLH=4.7.
24	eP ei Lm	11 12 33 12 46 17.5	Greece 37.4°N 22.0°E, H=11 09 25.4, h=43 km(ISC), m=4.8 ISC, Dc=13.7°, LmH:12s 1.5 u, MLH=4.3.
24	e ei i	12 33 32 34 08 34 11.6	
24	ei ei	13 02 37.7 03 02	
24	eP ei	14 50 18 50 48.3	Mediterranean Sea 34.3°N 26.4°E, H=14 46 11.2, h=45 km(ISC), Dc=18.0°.
24	ePKP eiPKP2	15 49 01 49 13	Fiji Islands 25.4°S 177.4°W, H=15 29 12, h= 102 km(ISC), m=5.0 ISC, Dc=153.8°.
24	e eiSg	16 32 51 33 14	
24	eP ei Lm	17 47 25 48 06 54.5	Crete 34.9°N 24.6°E, H=17 43 32.2, h=43 km(ISC), m=4.7 ISC, Dc=16.8°.
24	eiPg i iSg	17 52 29.3 52 30.8 52 44.3	D=1.1°.
25	eP	01 08 85	Crete 34.9°N 24.5°E, H=01 04 04.5, h=0 km(ISC), Dc=16.8°.
25	ePKIKP eiPP	08 47 30 48 19.5	Tanimbar Islands region 6.4°S 131.1°E, H=08 29 00.8 h=57 km(ISC), m=5.7 ISC, Dc=111.8°.
25	ePg eiSg	09 02 16 02 32	

Date	Phase	h m s	Remarks
25	iPn	09 09 26.0	C.Albania 40.3°N 19.8°E, H=09 06 57, h=21 km(ISC),
	ei	10 45	m=5.0 ISC, Dc=10.4°. D=10.5°, LmH:10s 1.6 u, MLH=
	eiSn	11 27	4.2.
	Lg	12 59	
	Lm	15.3	
25	iPg	10 09 20.0	
	ei	09 33	
25	ei	12 19 40	
25	iPKIKP	12 26 40.9	C.Loyalty Islands region 21.6°S 169.9°E, H=
	ei	27 30	12 07 05.6, h=43 km(ISC), m=5.2 ISC, Dc=145.6°.
	ei	30 22	
25	ei	12 45 19	
25	eiPKIKP	13 40 49.2	C.Macquarie Islands 52.8°S 160.2°E, H=13 20 56.6,
	eiPKP2	41 25	h=33 km(ISC), m=6.0 ISC, Dc=158.5°, MLH=6 PRU,
	eiPP	45 03	LmE:20 s 2 u, LmV:20 s 2 u.
	eiSKSP	55 27	
	ei	14 06 03	
	eSSS	11.5	
	eL	40	
	Lm	15 01.5	
25	iPg	16 03 13.4	
	i	03 27.9	
	iSg	03 30.9	
26	ePKIKP	00 40 33	Tonga Islands 15.6°S 178.8°W, H=00 21 56.4, h=
			580 km(ISC), m=4.1 ISC, Dc=145.9°.
26	eP	07 56 09	North Atlantic Ridge 32.1°N 41.1°W, H=07 47 56.3,
			h=33 km(ISC), m=4.6 ISC, Dc=44.5°.
26	eiPn	08 12 08.5	Austria 46.3°N 13.2°E, H=08 11 03, h=0 km(ISC),
	ei	12 37	Dc=3.8°.
	eiSn	12 56.0	
26	eP	10 38 29	Crete 34.0°N 24.1°E, H=10 34 28, h=33 km(ISC),
			Dc=17.5°.
26	ePg	11 01 07	D=1.3°.
	eiSg	01 23.5	
26	iPg	12 01 26.5	Explosion of 10.3 Tons 50°34.8′N 14°00.9′E, Dc=
	eiSg	01 35.5	76.5 km.
	Lm	01 54	
26	eiPg	12 32 44	D=1.1°.
	eiSg	32 59	
26	e	12 41 08	
	ei	41 32.5	
	ei	41 40.5	
	eiSg	41 54	

Date	Phase	h m s	Remarks
26	ePKIKP	12 45 22	South of Fiji Islands 25.6°S 179.7°W, H=12 26 24.6,
	eiPKHKP	45 29.5	h=464 km(ISC), m=4.8 ISC, Dc=153.3°.
	eiPKP2	45 44.3	
26	ePg	13 01 13	D=1.3°.
	eiSg	01 29	
26	ePg	17 59 08	Italy 43.5°N 11.5°E, H=17 56 54, h=0 km(ISC), m=
	ei	18 00 13.5	4.3 ISC, Dc=6.8°.
26	ePg	18 09 21	Italy 43.7°N 11.3°E, H=18 07 09, h=0 km(ISC), Dc=
	ei	10 13	6.7°.
26	eiPKIKP	18 49 25.5	C. Tonga Islands 21.3°S 176.7°W, H=18 30 06.2,
	iPKP2	49 31.0	h=221 km(ISC), Dc=150.0°.
26	eiP	23 11 29	Ryukyu Islands 28.3°N 130.6°E, H=22 59 01.8, h=
	ei	11 37	39 km(ISC), Dc=83.7°.
27	ePg	12 46 26.7	D=1.6°.
	eiSg	46 46.7	
27	e	12 59 37	
	ei	59 45	
27	ei	13 30 16	
27	ePg	14 05 52	Explosion of 7 Tons Eschenlohe (München). D=3.2°.
	eSn	06 30	
	eiSg	06 46.4	
27	eP	14 45 40	Burma-India border region 27.4°N 96.6°E, H=
	ei	46 28	14 35 04.5, h=40 km(ISC), m=4.7 ISC, Dc=64.6°.
27	e	15 50 12	
	e	50 43	
27	e	17 37 29	
	ei	37 53	
27	eP	19 08 51	North of Svalbard 82.5°N 7.4°W, H=19 02 10.9,
	ei	08 57	h=20 km(ISC), m=4.5 ISC, Dc=33.3°.
27	eiP	20 12 26.5	Nevada 37.2°N 116.1°W, H=20 00 03.0, h=28 km(ISC),
			m=5.0(ISC), Dc=82.9°.
27	eP	22 19 12	Aleutian Islands 51.6°N 178.3°W, H=22 07 47, h=
			47 km(ISC), m=4.9 ISC, Dc=79.2°.
27	iP	22 23 02	Pakistan 24.5°N 68.7°E, H=22 14 14.4, h=5 km(ISC),
			m=5.0 ISC, Dc=48.8°.
28	eP	00 16 15	Taiwan region 24.3°N 122.6°E, H=00 03 59.2, h=
	ei	16 36	55 km(ISC), m=5.5 ISC, Dc=82.5°, D=83°, LmH:18 s
	ePP	19 28	3.9 u, MLH=5.8.
	eS	26 30	

Date	Phase	h m s	Remarks
	eL	44	
	Lm	51	
28	ePKP	02 28 39	South of Fiji Islands 22.2°S 179.5°W, H=02 09 52.0
	e	30 57	ISC, Dc=150.2°.
28	eP	05 33 30	Japan 36.6°N 138.2°E, H=05 21 23.3, h=19 km(ISC),
	ei	33 54	m=4.5 ISC, Dc=80.5°, LmH:14 s 1.4 u, MLH=5.5.
	Lm	06 08	
28	eP	06 05 49	Southwestern Ryukyu Islands 23.8°N 125.1°E, H=
	ei	06 06.5	05 53 18.6, h=33 km(ISC), m=5.1 ISC, Dc=84.3°.
28	eP	22 02 10.5	Aleutian Islands 51.5°N 178.2°W, H=21 50 17, h=
			71 km(ISC), m=5.1 ISC, Dc=78.3°.
29	ePKIKP	14 03 20	Tonga Islands 21.6°S 178.6°W, H=13 44 32.7, h=
	i	03 24.2	513 km(ISC), m=5.1(ISC), Dc=149.8°.
	i	03 32.7	
	ei	05 27.4	
30	iP	03 22 09.8	Panama 7.6°N 77.0°W, H=03 09 34.1, h=30 km(ISC),
			m=5.2 ISC, Dc=85.3°.
30	ePg	14 29 05	D=1°.
	i	29 07	
	i	29 15.5	
	eiSg	29 17	
30	eiPg	14 50 55.6	D=1°.
	eiSg	50 08.1	
30	eP	14 58 11	Jan Mayen 71.2°N 7.0°W, H=14 53 01.7, h=33 km
			(ISC), m=4.4 ISC, Dc=23.5°.
30	ePKIKP	19 40 04	Tonga Islands 15.2°S 174.1°W, H=19 20 36.7, h=
			77 km(ISC), m=4.1 ISC, Dc=144.6°.
31	eiP	07 54 56.2	C. Aleutian Islands 52.2°N 169.9°W, H=07 42 58.7
	eiPcP	55 04.5	h=32 km(ISC), m=4.7 ISC, Dc=78.2°.
31	eiPg	12 38 54.7	D=1°.
	eiSg	39 07.2	
31	ePg	12 40 50	D=1.1°.
	eiSg	41 04.5	
31	eiPg	13 00 10.4	D=1°.
	eiSg	00 23.2	
31	eiPg	13 59 56.7	D=1.1°.
	eiSg	14 00 10.2	

Date	Phase	h m s	Remarks
1	eiP	02 45 54.4	C. Aleutian Islands 51.6°N 176.3°E, H=02 33 57.6, h=17 km(ISC), m=4.9(ISC), Dc=77.6°.
1	ePKIKP	04 07 40	New Britain region 5.8°S 151.2°E, H=03 48 50.3, h= 69 km(ISC), m=5.1(ISC), Dc=122.9°.
1	ePKIKP	10 34 05	New Hebrides Islands 13.8°S 166.6°E, H=10 14 45.3, h=68 km(ISC), m=4.7 ISC, Dc=137.3°.
1	eiPg	11 07 48.4	
	e	08 11	
1	eiPKIKP	12 07 21.6	Tonga Islands region 23.4°S 174.7°W, H=11 44 33.0,
	i	07 29.5	h=22 km(ISC), m=5.8 ISC, Dc=152.5°, LmH:21 s 1 u,
	eiPKP2	07 43.5	MLH=5.6.
	ePP	11 06	
	e	18 12	
	eL	58	
	Lm	13 18	
1	eiPg	12 44 39	D=1.7°.
	eiSg	45 02	
1	e	12 56 18	New Hebrides 15.2°S 167.2°E, H=12 34 31.0, h=
	eiPP	56 47	71 km(ISC), m= 5.2 ISC, Dc=138.8°.
1	eiPg	14 42 04.5	
	i	42 16.4	
1	e	17 05 04	
2	iP	03 39 50.0	D. Aleutian Islands 51.0°N 176.0°E, H=03 27 54.1,
	eiPcP	40 02.5	h=48 km(ISC), m=5.7 ISC, Dc=78.1°, TPV=1.2 s, A=
	ei	40 53.5	86.2 mu, MPV=5.7(sp), LmH:20 s 1.7 u, MLH=5.4.
	e	42 04	
	eiPP	42 42	
	eL	04 06	
	Lm	16.5	
2	e	07 26 05	
	ei	26 42.4	
2	ePKP2	08 03 06	North Island of New Zealand 36.9°S 179.9°W, H= 07 42 11, h=33 km(ISC), Dc=163.3°.
2	e	12 56 39	
	ei	57 04.5	
2	e(Pg)	14 41 42	
	e	42 30	
2	eiP	15 42 26.4	C. Nevada 37.2°N 116.0°W, H=15 30 01.8, h=18 km (ISC), m=5.6 ISC, Dc=82.8°, TPV=1.4 s, A=62.5 mu, mPV=5.6(sp).

Date	Phase	h m s	Remarks
2	eiPKP	17 13 42	D. Tonga Islands 18.8°S 173.3°W, H=16 54 01.3,
	ei	14 12	h=68 km(ISC), m=4.8 ISC, Dc=148.2°.
2	eiP	18 42 31.5	Gibraltar 36.5°N 7.6°W, H=18 37 48, h=22 km (ISC), m=4.4 ISC, Dc=20.9°.
2	eP	22 55 02	Turkey 38.5°N 27.2°E, H=22 51 28, h=30 km(ISC),
	Lm	23 00.4	Dc=14.6°, LmH:12s 1.3 u, MLH=4.3.
3	eiSg	03 18 16	Austria 47.4°N 11.0°E, H=03 16 26(BCIS), Dc= 3.5°.
3	iPg	10 23 07.5	Explosion.
	iSg	23 09	
	Lm	23 10	
3	e	12 58 19	
3	eiPKIKP	14 07 46	Tonga Islands 17.9°S 178.6°W, H=13 49 09.7, h=586 km(ISC), m=4.5 ISC, Dc=146.3°.
3	iP	14 12 26.9	C. Nevada 37.0°N 116.0°W, H=14 00 02.2, h=
	ei	12 40	22 km(ISC), m=5.7 ISC, Dc=82.9°, TPV=1.4 s, A=83 mu, mPV=5.8(sp).
3	eiP	14 49 11	Japan 35.7°N 140.2°E, H=14 36 57.2, h=71 km (ISC), m=4.5 ISC, Dc=82.1°.
4	iP	05 19 28.8	C. Hindu Kush region 36.4°N 70.7°E, H=05 11 55.4, h=215 km(ISC), m=5.2 ISC, Dc=42.2°, TPV=1.0 s, A=59.5 mu, mPV=5.1.
4	eiP	06 20 14	Mediterranean Sea 36.6°N 21.0°E, H=06 16 57.5,
	ei	20 26	h=82 km(ISC), m=4.3 ISC, Dc=14.1°.
	ei	22 36	
4	eiP	08 56 09	
4	ePKIKP	11 42 06	Tonga Islands 15.7°S 174.8°W, H=11 23 04.6, h= 315 km(ISC), m=4.1 ISC, Dc=144.9°.
4	ei	12 41 05	
	eiSg	42 28	
4	e	12 43 05	
	eiSg	43 27.5	
4	e	12 44 05	
	eiSg	44 28.5	
4	eiPKP2	21 58 19.5	Kermadec Islands region 30.0°S 178.9°W, H= 21 38 15.7, h=210 km(ISC), m=4.3 ISC, Dc=157.6°.

Date	Phase	h m s	Remarks
5	eiP	00 00 10.6	C. Kurile Islands 46.5°N 152.7°E, H=23 48 19.2,
	iPcP	00 24.5	h=37 km(ISC), m=5.6 ISC, Dc=77.3°, TPV=1.1 s,
	ei	01 45	A=16.0 mu, mPV=5.1(sp), LmH:16 s 5.9 u, MLH=6.1.
	ei	06 08	
	eiS	09 54.5	
	eL	29	
	Lm	38.5	
5	e	02 24 50	North of Svalbard 80.0°N 4.0°W, H=02 18 49, h= 32 km(ISC), m=4.4 ISC, Dc=30.8°.
5	eP	09 17 44	Turkey 39.1°N 29.3°E, H=09 14 06.8, h=36 km(ISC),
	eL	22.3	m=4.4 ISC, Dc=15.2°, LmH:9 s 0.4 u, MLH=3.9.
	Lm	24.1	
5	eiP	20 55 23.6	Greece 37.2°N 21.9°E, H=20 52 02.5, h=35 km(ISC),
	ei	57 23	m=4.5 ISC, Dc=13.8°, MLH=4.3, LmH:9 s 1 u.
	Lm	21 01.3	
6	eSg	02 37 28	Poland 50.3°N 19.2°E, H=02 35 54.4(WAR), Dc=3.0°.
6	iP	07 53 51.2	C.W.S.Afghanistan - USSR border region 36.4°N
	i	53 54.6	71.1°E, H=07 46 15.6, h=214 km(ISC), m=6.1 ISC,
	ipP	54 39.2	Dc=42.4°, D=43°, TPV=1.7 s, A=5500 mu, mPV=6.8(sp),
	isP	55 01.0	LmH:7 s 17 u, MLH=7.1.
	eiPP	55 34	
	i!sPP	56 39.0	
	iS	59 56.8	
	eisS	08 01 10.8	
	eiSS	03 17.5	
	Lm	07	
6	eiP	21 00 36.7	Philippine Islands 9.6°N 126.4°E, H=20 47 11.1,
	eiSKS	11 09	h=44 km(ISC), m=5.6 ISC, Dc=96.4°, D=96°, LmH:
	ei	12 01	25 s 4.3 u, MLH=5.8.
	Lm	40	
7	eiP	01 13 36.5	Peru 14.8°S 75.9°W, H=00 59 41, h=2 km(ISC), m=
	eiPP	17 45	5.6 ISC, Dc=101.5°, LmH:24 s 6.5 u.
	eiSKS	24 17	
	ei	26 41	
	ei	31.9	
	eL	48	
	Lm	55.5	
7	e	09 36 07	
	ei	36 26.7	
7	ePg	09 49 07	
	ei	49 09	
	ei	49 20	
7	eiP	11 57 11.6	Taiwan region 24.3°N 122.6°E, H=11 44 53.2, h=
	ei	57 44	51 km(ISC), m=5.3 ISC, Dc=82.6°.

Date	Phase	h m s	Remarks
7	eiP	13 42 28.7	D.
	ei	42 33.2	
7	iP	14 13 28.5	C. Caroline Islands 11.3°N 139.6°E, H=13 59 34.9, h=37 km(ISC), m=6.3 ISC, Dc=102.4°, TPV=1.5 s, A=166.2 mu, mPV=6.6, QmH:39 s 43 u, RmH: 21 s 78 u, MLH=7.3, RmV:21 s 27 u.
	ei	13 43.2	
	ei	16 28.8	
	ei	16 36.7	
	eiPP	17 41	
	ei	23 17	
	ei(SKS)	24 08	
	eiS	25 13	
	eiPS	26 54	
	eiSS	32 30	
	eiSSS	36 27	
	Q	45	
	Qm	50	
	R	51	
	Rm	53.5	
	Rm	15 02	
7	eP	15 28 32	Near coast of Peru 15.1°S 75.8°W, H=15 14 42.2, h=50 km(ISC), m=5.0 ISC, Dc=101.6°.
7	eiPKIKP	19 24 29.7	D. Tonga Islands 21.4°S 179.2°W, H=19 05 47.8, h=615 km(ISC), m=4.7 ISC, Dc=149.5°.
	eiPKP2	24 37.6	
	eipPKP2	26 52	
8	ei(Sg)	06 17 57.7	
	Lm	18 08	
8	eP	10 58 33	Taiwan 22.8°N 120.7°E, H=10 46 06, h=10 km(ISC), m=4.9 ISC, Dc=82.6°.
8	eSg	11 51 06.2	
	ei	51 50.5	
8	e	12 45 51	
	eiSg	46 13.7	
	ei	46 50.7	
8	eiP	20 08 06.0	C. Aleutian Islands 53.2°N 171.0°E, H=19 56 22.9, h=25 km(ISC), m=5.5 ISC, Dc=75.3°, TPV=1.1 s, A=81.0 mu, mPV=5.7.
	ei	08 13.5	
	ei	08 30.5	
	eiPP	10 44.5	
9	eiP	00 24 03.7	Nicobar Islands region 7.7°N 93.9°E, H=00 12 12, h=41 km(ISC),m=5.2 ISC, Dc=77.3°.
	eiPcP	24 17.5	
9	eiP	02 09 12.8	Kurile Islands 44.8°N 146.5°E, H=01 57 37.5, h=161 km(ISC), m=4.7 ISC, Dc=76.8°.
9	e	03 16 28.5	
	e	17 06	
	eiSg	17 24.6	

Date	Phase	h m s	Remarks
9	eP	07 05 22	North of Severnaya Zemlya 85.0°N 96.0°E, H=06 57 50.2, h=33 km(ISC), m=4.8 ISC, Dc=39.7°.
9	e	09 02 03	
	eiSg	02 49.4	
9	ePg	11 00 43	D=1.6°.
	eiSg	01 04.5	
	Lm	01 21	
9	eP	13 20 11	Japan 39.8°N 141.7°E, H=13 08 12.5, h=81 km(ISC), m=4.6 ISC, Dc=79.2°.
	eiPcP	20 19.2	
9	e	14 19 01	Switzerland 46.4°N 7.1°E, H=14 17 12, h=0 km (ISC), Dc=6.1°.
	ei	19 18	
	ei	20 13	
	ei(Sg)	20 27	
9	eiP	15 51 14.2	D.Kurile Islands 44.3°N 147.7°E, H=15 39 27.1, h=99 km(ISC), m=5.4 ISC, Dc=77.6°, TPV=1.5 s, A=107.0 mu, mPV=5.7(sp).
	eiPP	54 08	
9	eP	22 29 13	Japan 30.1°N 142.1°E, H=22 16 26.5, h=44 km(ISC), m=5.1 ISC, Dc=87.8°.
9	eiP	22 31 47	Southern Iran 27.6°N 52.6°E, H=22 24 43.2, h=35 km(ISC), m=5.0 ISC, Dc=36.6°.
10	eiP	04 37 06.5	Aleutian Islands 52.1°N 175.0°E, H=04 25 19, h=63 km(ISC), m=4.8 ISC, Dc=76.9°.
10	e(Pg)	09 14 43.7	Rumania 45.1°N 25.3°E, H=09 12 00, h=49 km(ISC), m=4.6 ISC, Dc=8.6°.
	ei(Sn)	15 32.5	
	ei(Sg)	16 33	
10	eP	10 52 52	North Atlantic Ridge 45.4°N 28.2°W, H=10 46 51.9, h=63 km(ISC), m=4.3 ISC, Dc=28.8°, LmE: 16 s 0.6 u, MLH=4.3.
	Lm	11 04	
10	eiPg	13 35 37.4	D=2°.
	eiSg	36 03.2	
10	eP	14 20 33	Japan 42.6°N 149.0°E, H=14 08 23.9, h=17 km(ISC), m=5.2 ISC, Dc=79.6°.
10	eP	14 23 37	Alaska 57.5°N 155.8°W, H=14 12 15, h=73 km(ISC), m=4.7 ISC, Dc=72.6°.
10	eiPg	14 46 08.7	Explosion of 6.4 Tons 51.6°N 9.7°E, H=14 45 01.1, h=0 km(HAN), Dc=3.7°.
	eiSg	46 51.2	
10	eP	19 23 04	Aleutian Islands 52.5°N 173.5°E, H=19 11 13, h=8 km(ISC), m=4.7 ISC, Dc=76.3°.
10	eiP	21 47 35	Kurile Islands 44.7°N 149.4°E, H=21 35 39.9, h=43 km(ISC), Dc=77.9°.

Date	Phase	h m s	Remarks
10	eiP	22 22 40.8	D.North Atlantic Ridge 33.0°N 39.9°W, H=22 14 39.7,
	ei	22 52.3	h=19 km(ISC), m=5.1 ISC, Dc=43.2°, LmH:15 s 1 u,
	eiS	29 12	MLH=4.7.
	eL	35	
	Lm	40.4	
10	eiP	22 51 16.5	C. Mongolia 45.2°N 99.7°E, H=22 41 49.0, h=33 km
	Lm	23 13	(ISC), m=5.0 ISC, Dc=54.6°, TPV=1.0 s, A=21.0 mu,
			mPV=5.1(sp).
10	eP	23 36 02	Norwegian Sea 72.7°N 3.3°E, H=23 30 56.0, h=33 km.
	ei	36 12.4	(ISC), m=4.4 ISC, Dc=23.3°.
11	eP	03 13 25	Taiwan region 23.7°N 120.0°E, H=03 01 08.1, h=
	ei	13 30.5	18 km(ISC), m=4.9 ISC, Dc=81.5°, LmH:16 s 3.2 u,
	eS	23 32	MLH=5.7.
	L	41	
	Lm	48	
11	eiPg	07 59 54.2	Explosion of 1.3 Tons 50.6°N 14.4°E, H=07 59(PRU),
	ei(Sg)	08 00 05.5	Dc=0.6°.
11	eiPg	08 52 24.2	Explosion of 15 Tons 49.4°N 13.0°E, H=08 52(PRU),
	eiSg	52 40	Dc=1.2°.
	Lm	52 57	
11	eP	10 24 46	Greece 38.7°N 21.5°E, H=10 21 55.4, h=43 km(ISC),
	ei	24 49.6	m=4.7 ISC, Dc=12.2°, LmH:10 s 3.5 u, MLH=4.6,
	ei	26 44	LmV:10 s 2.3 u.
	ei	27 14	
	ei	27 45	
	Lm	30	
11	eiPg	11 00 30.5	
	eiSg	00 49.5	
11	eiP	12 08 10.4	D. Greece 37.4°N 21.1°E, H=12 05 02.7, h=47 km
	eiPP	08 21.8	(ISC), m=4.8 ISC, Dc=13.5°.
	ei	10 51	
11	eP	18 25 35.0	Aleutian Islands 51.6°N 178.4°W, H=18 13 39.8,
			h=51 km(ISC), m=5.5 ISC, Dc=78.2°.
12	eiP	00 55 21.5	Japan 36.7°N 138.0°E, H=00 43 10, h=25 km(ISC),
			m=4.6 ISC, Dc=80.3°.
12	eiPg	09 20 14	D=1.4°.
	iSg	20 32.4	
12	eP	20 31 35	South Atlantic Ocean 2.9°S 28.3°W, H=20 20 59,
			h=20 km(ISC), m=4.8 ISC, Dc=64.3°.
12	eP	23 25 21.5	

Date	Phase	h m s	Remarks
13	ePKP	04 19 41	Tonga Islands 17.1°S 174.0°W, H=04 00 17, h=
	ei	20 06	180 km(ISC), m=4.2 ISC, Dc=146.5°.
13	eiPKIKP	07 52 51	New Hebrides Islands Region 21.1°S 174.2°E, H=
	ei	53 15.2	07 33 12.6, h=40 km(ISC), m=5.7 ISC, Dc=147.0°,
	e	08 11 41	LmH:24 s 3.9 u, MLH=6.1.
	eSSS	20.7	
	eL	41	
	Lm	56.8	
13	ePg	12 20 12	
	eiSg	20 29.5	
13	eP	13 11 14	Greenland Sea 73.3°N 7.7°E, H=13 06 03.9, h=33 km
			(ISC), m=4.3 ISC, Dc=23.6°.
13	eiP	13 24 46.5	Greenland Sea 73.2°N 7.2°E, H=13 19 35.4, h=
	ei	24 51.4	33 km(ISC), m=4.6 ISC, Dc=23.6°.
13	eP	14 19 13	Greenland Sea 79.6°N 4.1°E, H=14 12 58.5, h=0 km
			(ISC), m=4.1 ISC, Dc=30.0°.
13	eiPg	14 46 44.2	D=1.3°.
	eiSg	47 03	
13	eiPKHKP	18 27 21	Santa Cruz Islands 12.2°S 167.0°E, H=18 08 36.6,
	iPKIKP	27 31.5	h=242 km(ISC), m=6.0 ISC, Dc=136.1°, LmH:28 s
	eipPKP	28 29	5.5 u.
	ei	29 43.4	
	eiPP	30 13.5	
	eiSKP	30 43.8	
	ei	31 03	
	ei	32 31	
	ei	37 05	
	eiSKSP	39 59	
	ei	41 33	
	ei	43 29	
	eiSS	47 57	
	eL	19 10	
	Lm	13.5	
13	eP	19 12 26	
14	eiP	02 51 03.5	Turkey 38.2°N 42.9°E, H=02 45 57.2, h=39 km(ISC),
			m=4.6 ISC, Dc=23.4°.
14	eiPKP1	02 57 25.4	C. Tonga Islands 20.9°S 178.4°W, H=02 38 36.2,
	eiPKP2	57 31.8,	h=530 km(ISC), m=4.2 ISC, Dc=149.2°.
14	eiP	12 05 02.2	Central Mid-Atlantic Ridge 7.9°N 37.3°W, H=
			11 54 57.0, h=36 km(ISC), m=4.7 ISC, Dc=60.0°.
14	e	12 51 11	
	e	51 33	
	ei	51 40	
	eiSg	52 06.5	

Date	Phase	h m s	Remarks
14	eiPg	15 59 39.5	
	eiSg	16 00 02	
	Lm	00 20	
14	e	16 57 32	
	ei	57 38.8	
14	eiP	21 15 44.3	D. Japon 30.8°N 138.8°E, H=21 03 49.1, h=405 km (ISC), m=4.9 ISC, Dc=85.6°, TPV=1.2 s 27 mu, mPV=4.9.
	eipP	17 19.8	
15	ePKIKP	01 18 57.5	Solomon Islands 10.4°S 160.9°E, H=00 59 46.1, h= 34 km(ISC), m=6.0 ISC, Dc=131.8°, LmH:22 s 290 u, MLH=7.9.
	ei	19 03.0	
	ei	20 22.4	
	eiPP	21 20.5	
	eiPKS	22 19	
	ei	23 36.5	
	eiPPP	24 04.4	
	eiSKKS	28 10.5	
	ei	31 27.3	
	eiPPS	33 20	
	eiSS	39 09	
	Lm	02 18.7	
15	eiPKIKP	01 52 06	Solomon Islands 10.2°S 161.0°E, H=01 32 54, h= 20 km(ISC), m=6.1 ISC, Dc=131.6°, LmH:25 s 80 u, MLH=7.3.
	ei	54 17	
	eiPP	54 41.8	
	ei	55 32	
	Lm	02 50	
15	ePKIKP	03 22 43	Solomon Islands 10.2°S 160.8°E, H=03 03 32, h= 20 km(ISC), m=5.0 ISC, Dc=131.5°.
	ei	25 05	
	ei	26 11	
15	e	05 46 57	
	ei	47 25	
15	eiPg	08 00 10	Explosion of 5.9 Tons 50.2°N 16.5°E, H=07 59(PRU), Dc=1.3°.
	iSg	00 26.2	
15	iPg	10 00 58.4	
15	e	12 28 54	
15	ePg	12 41 05.5	D=1.2°.
	eiSg	41 21.5	
	Lm	41 24	
15	eiPg	12 46 20	D=2.5°.
	eiSg	46 54	
15	ePg	12 47 22	D=2.5°.
	eiSg	47 55	
15	eiPg	14 00 17.6	D=1.5°.
	iSg	00 37.4	

Date	Phase	h m s	Remarks
15	ePKIKP	16 55 40	Solomon Islands 10.3°S 160.8°E, H=16 36 26, h= 25 km(ISC), m=5.4 ISC, Dc=131.6°.
	e	57 55	
15	eP	17 02 18	
15	eP	18 15 14	
15	eP	23 37 24	Kurile Islands 44.3°N 149.1°E, H=23 25 27.2, h= 34 km(ISC), m=4.6 ISC, Dc=78.1°.
16	eiPg	13 44 44.5	
	eiSg	44 48	
	Lm	44 54	
16	eiPg	16 28 24.6	D=2°.
	eiSg	28 50.8	
16	eiP	17 10 30	Jan Mayen 71.6°N 3.1°W, H=17 05 24.2, h=33 km (ISC), m=4.5 ISC, Dc=23.1°.
	ei	10 35	
	ei	14 46.5	
	Lm	19	
16	eP	18 11 12	North Atlantic Ridge 12.8°N 44.5°W, H=18 01 03, h=41 km(ISC), m=4.6 ISC, Dc=60.6°.
16	eP	22 43 06.5	Indian Ocean 26.0°S 70.5°E, H=22 30 05.4, h=33 km (ISC), m=4.8 ISC, Dc=90.4°.
17	e	01 35 53	
17	ePKP	07 09 14.5	Tonga Islands 18.9°S 177.6°W, H=06 50 27, h=501 km (ISC), m=4.2 ISC, Dc=147.4°.
17	eP	09 00 24	Japan region 42.4°N 142.8°E, H=08 48 34.1, h= 76 km(ISC), m=4.7 ISC, Dc=77.5°.
	ei	00 31.9	
17	iPg	10 01 16.5	
	iSg	01 37.0	
17	eiPKP	10 22 52.4	D. Tonga Islands 21.9°S 178.7°W, H=10 04 02.1, h= 548 km(ISC), m=4.5 ISC, Dc=150.1°.
17	eiPg	12 53 22	D=1.8°.
	eiSg	53 45.4	
17	eiPg	12 59 55.5	Explosion?
	ei	59 57.5	
	ei	13 00 06	
	ei	00 09.5	
17	ePKP	13 39 17	Fiji Islands 22.0°S 179.8°E, H=13 20 32.0, h= 587 km(ISC), m=4.8 ISC, Dc=149.7°.
18	eiPg	07 02 01	D=1.5°.
	eiSg	02 20	
	Lm	02 32	

Date	Phase	h m s	Remarks
18	iPg	07 59 40	C. Explosion 9.5 Tons 50°45.7′N 14°25.5′E, Dc=
	i	59 52	88 km.
	i	59 55	
	Lm	08 00 29	
18	e	12 14 37	
	e	15 40	
18	ePg	12 45 10.9	D=2°.
	eiSg	45 37.4	
18	e	18 10 13	
	eiSg	10 17.5	
	Lm	10 26	
18	ePKP	19 34 18	Near North Coast of New Guinea 3.4°S 143.1°E,
	eiPP	35 24	H=19 15 28, h=32 km(ISC), m=5.1 ISC, Dc=116.5°.
18	eiPKP	22 14 05.6	Tonga Islands 18.4°S 175.2°W, H=21 54 46,3, h= 221 km(ISC), m=4.2 ISC, Dc=147.5°.
19	ePn	04 13 10	Yugoslavia 46.1°N 14.1°E, H=04 12 11, h=11 km
	eiPg	13 22	(ISC), Dc=3.9°.
	eiSn	13 52	
	ei	14 08	
19	ePKP	08 11 27	East New Guinea region 8.9°S 149.2°E, H=07 52 20.6
	eiPP	13 11	h=27 km(ISC), m=5.3 ISC, Dc=124.5°.
19	eP	17 59 03	Turkey 38.6°N 27.4°E, H=17 55 30, h=9 km(ISC),
	ei	59 13.4	m=4.7 ISC, Dc=14.6°.
19	eP	19 40 40	Aleutian Islands 51.7°N 176.1°W, H=19 28 43.8,
	e	41 35.5	h=57 km(ISC), m=5.3 ISC, Dc=76.3°.
20	eP	04 43 25	Japan region 41.6°N 141.9°E, H=04 31 33.8, h= 75 km(ISC), m=4.4 ISC, Dc=77.8°.
20	e	05 05 40	
20	e	05 36 45	
20	iPg	08 55 31	
	i	55 42	
	i	55 46	
20	eiPKIKP	09 11 42.2	C. Samoa Islands 16.2°S 172.9°W, H=08 52 04,
	ei	12 00	h=34 km(ISC), m=4.8 ISC, Dc=145.8°.
20	ePg	12 41 08	D=1.7°.
	eiSg	41 31.3	
20	e	12 48 17	
20	ePKIKP	19 28 46	Tonga Islands 20.9°S 173.9°W, H=19 58 08.0, h= 33 km(ISC), m=4.5 ISC, Dc=150.2°.

Date	Phase	h m s	Remarks
21	e	01 02 41	Santa Cruz 11.1°S 165.1°E, H=00 43 15, h=25 km
	eiPP	05 09	(ISC), m=5.2 ISC, Dc=134.3°, LmH:24s 1.6 u.
	e	06 02	
	eL	48	
	Lm	02 01	
21	eiPKIKP	07 31 45	Tonga Islands 20.5°S 173.6°W, H=07 11 54.1, h= 33 km(ISC), m=4.7 ISC, Dc=149.9°.
21	e	14 04 34	
	e	04 54	
21	eiP	15 59 33	Japan region 42.0°N 142.6°E, H=15 47 42.2, h= 71 km(ISC), m=4.6 ISC, Dc=77.7°.
21	eP	18 24 35	Mexico 16.3°N 94.7°W, H=18 11 43.2, h=56 km(ISC), m=4.9 ISC, Dc=89.5°.
21	eiP	23 18 10.7	C. Kurile Islands 50.1°N 157.7°E, H=23 06 29.2,
	i	18 29.5	h=37 km(ISC), m=5.5 ISC, Dc=75.4°, TPV=1.0 s,
	ei	19 04	A=47 mu, mPV=5.5, LmH:20 s 1.8 u, MLH=5.4.
	eL	43	
	Lm	50.5	
22	e	02 09 31	
22	eP	11 10 42	Greenland Sea 73.2°N 7.7°E, H=11 05 32.0, h= 33 km(ISC), m=4.2 ISC, Dc=23.5°.
22	eiP	11 49 50	D. Alaska 61.3°N 147.6°W, H=11 38 49, h=16 km
	ei	49 58.6	(ISC), m=5.2 ISC, Dc=68.1°.
22	ei	12 46 07.5	
	ei	46 34.6	
	ei	47 04	
22	iPg	17 01 23.6	D=1.4°.
	eiSg	01 42.1	
22	eiP	19 02 19	Kurile Islands 45.7°N 149.6°E, H=18 50 40.5, h= 145 km(ISC), m=4.7 ISC, Dc=77.0°.
22	eP	20 42 32	Banda Sea 7.2°S 124.7°E, H=20 29 05.3, h=523 km
	eipP	44 34	(ISC), m=6.1 ISC, Dc=108.4°, LmH:22 s 7.8 u,
	ei	46 42	LmH:21 s 5.5 u.
	eiPP	47 17	
	ei	48 45	
	eiSKS	52 27	
	ei	55 45	
	ei	21 04 41	
	ei	08 39	
	Lm	27	
	Lm	34.5	
22	eiP	20 58 03.8	
	ei	58 06	
	ei	21 05 44	

Date	Phase	h m s	Remarks
23	iP	05 13 03.1	D.Eastern Sea of Japan 43.7°N 140.0°E, H=05 01 43,
	ei	13 33.6	h=224 km(ISC), m=5.5 ISC, Dc=75.3°, TPV=1.0 s, A=
	eisP	14 19	189.3 mu, mPV=5.8.
23	eiP	05 51 10.6	Japan 36.2°N 139.7°E, H=05 39 17.3, h=153 km (ISC), m=4.2 ISC, Dc=79.7°.
23	eP	09 47 38	Zambia 14.2°S 22.0°E, H=09 37 04.2, h=33 km(ISC), m=4.8 ISC, Dc=64.2°.
23	ePg	10 13 58	
	eiSg	14 14	
23	eiPg	11 13 25.6	
	eiSg	13 51.6	
23	ePg	12 00 57.5	D=1°.
	eiSg	01 10	
23	e	12 42 26	
23	eSg	14 43 36	Poland 50.3°N 19.0°E, H=14 42 06.7, m=2.3 WAR, Dc=2.7°.
23	eP	22 04 07	Japan 38.1°N 141.7°E, H=21 51 55.8, h=77 km(ISC),
	ei	04 21.2	m=5.0 ISC, Dc=80.7°.
24	iPg	04 21 33.9	
	iSg	21 57.9	
24	eiPKIKP	08 37 24.8	C.South of Fiji Islands 26.7°S 177.3°W, H=
	ei	37 34.5	08 17 51.0, h=162 km(ISC), m=5.2 ISC, Dc=155.0°.
	eiPKP2	37 50.9	
	ePP	41 25	
24	eiPg	09 02 10.8	D=1.1°.
	eiSg	02 25.3	
24	e	12 43 29	
	ei	43 34.5	
	eiSg	43 52.3	
24	ei	12 44 19	
	eiSg	44 44	
24	e	14 06 15	
	eiSg	06 37.4	
24	eipPKP	14 08 50.3	Fiji Islands 24.4°S 179.0°E, H=13 47 45.7, h= 562 km(ISC), m=4.5 ISC, Dc=151.6°.
24	e	15 02 53	
	ei	03 11	
	eiSg	03 16	
24	eiPn	15 08 30.4	Italy 43.2°N 13.4°E, H=15 06 51, h=45 km(ISC),
	ei	08 39.4	Dc=6.9°.

Date	Phase	h m s	Remarks
	eiSn	15 09 43	
	eiSg	10 38	
24	eP	22 37 23	Greece 38.7°N 21.5°E, H=22 34 26.1, h=34 km(ISC),
	ei	37 32	m=4.7 ISC, Dc=12.3°, LmN:9 s 1.1 u, MLH=4.3.
	e	40 53	
	eLg	41 17	
	Lm	42 43	
25	eiP	01 58 56.4	C. Japan 29.4°N 142.0°E, H=01 46 08.8, h=38 km
	eiPP	02 02 22	(ISC), m=5.3 ISC, Dc=88.2°, TPV=1.5 s, A=23.5 mu,
	e	09 45	mPV=5.3(sp), LmH:16 s 1.9 u, MLH=5.6.
	eSS	15.7	
	eL	27	
	Lm	41.6	
25	ei	08 55 09	
	ei	55 42.1	
25	ei	10 51 16.8	C.New Hebrides Islands 19.6°S 169.5°E, H= 10 32 08.0, h=204 km(ISC), m=4.6 ISC, Dc=143.4°.
25	ePKIKP	16 20 25	Solomon Islands 10.2°S 161.1°E, H=16 01 19.0, h=53 km(ISC), m=5.3 ISC, Dc=131.6°.
25	ePKIKP	16 57 17	New Britain region 5.0°S 151.4°E, H=16 38 36.2, h=129 km(ISC), m=5.0 ISC, Dc=122.4°.
25	eP	21 43 52	Aleutian Islands 53.3°N 171.0°E, H=21 32 12, h= 40 km(ISC), m=4.5 ISC, Dc=75.2°.
26	eiPKP	07 09 07	Tonga Islands 21.1°S 174.4°W, H=06 49 17.4, h=
	ei	09 14	35 km(ISC), m=4.8 ISC, Dc=150.3°.
26	eP	07 47 05	Japan 36.6°N 138.3°E, H=07 34 54.4, h=28 km(ISC), m=4.4 ISC, Dc=80.5°.
26	eiP	11 06 33	Eastern India 26.1°N 92.8°E, H=10 56 11.0, h= 74 km(ISC), m=4.8 ISC, Dc=63.1°.
26	eP	13 21 32	Turkey 36.8°N 35.9°E, H=13 17 01.7, h=58 km(ISC), m=4.5 ISC, Dc=20.3°.
26	eP	23 41 39	China 31.8°N 104.4°E, H=23 30 50.9, h=27 km(ISC), m=4.7 ISC, Dc=66.3°.
27	ePn	05 17 45	Italy 43.1°N 13.5°E, H=05 16 03, h=33 km(ISC),
	ei	17 57.5	Dc=6.9°.
	ei	18 40.5	
	eiSn	18 55	
	ei	19 22.8	
	ei	19 57	
27	e	07 57 35.5	
	eiSg	57 49.5	

Date	Phase	h m s	Remarks
27	eiPKP ei	08 58 34.7 58 50.0	Tonga Islands region 22.8°S 175.5°W, H=08 30 45, h=49 km(ISC), m=5.0 ISC, Dc=151.8°.
27	iP ei eiPP eiS ei ei ei Lm Lm	10 50 24.2 50 43.5 52 24 57 56 58 56 11 00 14 02 28 12 16	C.S.W. Nepal-India border region 29.6°N 80.8°E, H=10 41 08.1, h=33 km(ISC), m=6.0 ISC, Dc=53.0°, TPV=1.2 s, A=267.2 mu, mPV=6.0, LmH:17 s 14 u, MLH=6.2.
27	iP	10 59 05.2	Nepal-India border region 29.5°N 80.9°E, H=10 49 51, h=72 km(ISC), m=5.4 ISC, Dc=53.2°.
27	eiP eiPP Lm	11 08 33.7 10 35 31	C.Nepal-India border region 29.7°N 80.9°E, H=10 59 18.1, h=36 km(ISC), m=6.0 ISC, Dc=53.0°, TPV=1.2 s, A=258.6 mu, mPV=6.0(sp), LmH:13 s 21 u, MLH=6.4.
27	eiP	11 30 59	Nepal-India border region 29.6°N 80.8°E, H=11 21 42, h=26 km(ISC), m=5.2 ISC, Dc=53.0°.
27	ePg eiSg	12 00 30 00 44	
27	eiPKIKP	12 33 40	Tonga Islands 16.6°S 173.6°W, H=12 14 02.6, h=33 km(ISC), m=4.4 ISC, Dc=146.1°.
27	iP ei ei eiPPP	14 05 07.9 05 20 05 35 08 10.7	C. Nepal-India border region 29.6°N 80.9°E, H=13 55 44.3, h=18 km(ISC), m=5.3 ISC, Dc=53.1°, TPV=1.2 s, A=49.0 mu, mPV=5.3(sp).
27	e ei	16 19 06 19 43.5	
27	eiPKP1 ei eiPKP2 eiPP	22 06 57.2 07 25.5 07 49.1 11 32	North Island 38.3°S 177.1°E, H=21 47 09.6, h=100 km(ISC), m=5.4 ISC, Dc=169.2°.
28	eP	00 03 42	Rumania 45.6°N 26.3°E, H=00 01 32.8, h=147 km (ISC), Dc=9.0°.
28	eiP ei	04 21 37.7 21 54.2	Central California 35.8°N 120.6°W, H=04 08 55.3, h=6 km(ISC), m=4.8 ISC, Dc=85.8°.
28	eiP ei eiPP eiS ei eL Lm	04 38 55 39 33.8 42 20.7 49 30 56 05 06 12.6	Central California 35.9°N 120.4°W, H=04 26 16.3, h=16 km(ISC), m=5.0 ISC, Dc=85.7°, LmH:26 s 13 u, LmH:18 s 6.8 u, MLH=6.3.

Date	Phase	h m s	Remarks
28	iPg ei ei	12 02 55.2 03 18.2 03 22.2	
28	iPg iSg	15 01 31.4 01 46.4	D=1.1°.
28	eP	15 52 55	Nepal 29.5°N 81.0°E, H=15 43 38, h=29 km(ISC), m=4.9 ISC, Dc=53.2°.
28	iPg iSg	16 17 17.2 17 38.7	D=1.6°.
28	eiP	17 00 01.2	Ryukyu Islands 26.7°N 126.1°E, H=16 47 46.7, h=87 km(ISC), m=5.0 ISC, Dc=82.6°.
29	e ePP	07 05 46 07 06	Kazakhstan 49.9°N 78.1°E, H=06 54 58.3, h=0 km (ISC), m=5.6 ISC, Dc=39.8°.
29	ePKIKP	07 57 59	Tonga Islands 19.5°S 173.7°W, H=07 38 11, h=27 km(ISC), m=4.4 ISC, Dc=148.9°.
29	eiPg eiSg	15 06 02 06 45.5	Explosion of 16.5 Tons 51.2°N 9.9°E, H=15 04 58.3, h=0 km(HAN), Dc=3.2°.
29	eiP	20 06 06.7	Central California 35.7°N 120.6°E, H=19 53 23, h=3 km(ISC), m=4.9 ISC, Dc=85.9°.
29	eiPKIKP eiPP ei eL Lm	22 06 15.7 08 57 09 54 53 23 06	New Hebrides Islands 13.8°S 166.5°E, H=21 46 56, h=42 km(ISC), m=5.5 ISC, Dc=137.3°, LmN:22 s 1 u,
29	eiP	23 03 42.7	Taiwan region 24.2°N 122.6°E, H=22 51 25.7, h=62 km(ISC), m=5.0 ISC, Dc=82.6°.
30	eiPKP	06 26 13.5	Tonga Islands 21.1°S 176.2°W, H=06 06 43, h=180 km(ISC), m=4.3 ISC, Dc=149.9°.
30	iP ePP	09 10 29.0 13 16	D. Eastern Russia 43.4°N 132.4°E, H=08 59 49.5, h=476 km(ISC), m=5.0 ISC, Dc=72.4°, TPV=1.1 s, 84 mu, mPV=5.2.
30	eP	09 37 40	Kurile Islands 43.3°N 147.6°E, H=09 25 39.6, h=34 km(ISC), m=4.3 ISC, Dc=78.3°.
30	eiPg ei ei	11 45 26.5 45 29.9 45 39	
30	eiPg e	11 54 48 55 00	
30	eiPg eiSg	12 29 56.5 30 22.5	D=2°.

Date	Phase	h m s	Remarks
30	eP eiS eL Lm	12 41 09 52 35 13 18 20.5	Philippine Islands 9.6°N 126.6°E, H=12 27 42.2, h=47 km(ISC), m=5.2 ISC, Dc=96.5°, LmH:22 s 1.6 u.
30	iPg iSg	14 00 39.9 00 52.4	D=1:
30	eiP ei	15 57 44 58 08	Taiwan region 24.3°N 122.2°E, H=15 45 27.5, h= 59 km(ISC), m=5.3 ISC, Dc=82.3°, TPV=1.5 s, A= 39.5 mu, mPV=5.3(sp).
30	ePKIKP	17 16 58	Fiji Islands region 15.5°S 177.2°W, H=16 57 23.3 h=33 km(ISC), m=4.7 ISC, Dc=144.3°.
30	eP ei Lm	19 23 53 24 31.7 27.6	Albania 41.2°N 20.9°E, H=19 21 29, h=19 km(ISC), m=4.8 ISC, Dc=9.9°, LmN:8 s 0.8 u.
30	iP ei eiPP Lm	22 27 24.5 27 48.5 30 34 23 06.5	C. Nevada 37.3°N 116.3°W, H=22 15 02.7, h=25 km (ISC), m=6.1 ISC, Dc=82.9°, TPV=1.5 s, A=197.4mu, mPV=6.1(sp), LmH:16 s 0.7 u.

List of local shocks (D < 100 km) recorded by the station Průhonice

January - June 1966

J.Nykles, B.Závorka

Remark:

The recorded events correspond to rock bursts in the regions of Kladno and Příbram and to quarry blasts. All explosions with known epicentres are included in the foregoing **chapter.** The values of periods and amplitudes correspond to the maximum surface waves Lm.

Date	Phase	h m s	Remarks
4	e	12 39 28	eL 39 34, Lm 39 38, 1 s 0.07 u.
4	ePg	12 52 42	D=21 km, 1 s 0.02 u.
4	e	18 40 04	
5	ei	01 40 56.5	0.6 s 0.03 u, iSg 40 59, L 41 02, Lm 41.
6	eiSg	02 14 40	1 s 0.02 u, Lm 14 48.
6	ePg	11 48 48	eiSg 49 01.5.
6	e	12 00 18	eiSg 01 30.5.
6	e	12 01 52	
6	e	12 51 39	eiSg 51 43.
7	eiPg	09 14 21.9	D=26 km, 0.5 s 0.12 u, iSg 14 25.1, Lm 14 28.
7	eiSg	11 15 07.5	1 s 0.01 u, Lm 15 12.
8	ePg	06 15 09	39 km, 1 s 0.03 u, eiSg 15 13.5, Lm 15 20.
8	e	10 50 43	0.5 s 0.03 u, Lm 50 46.
9	ei	21 33 27.2	1 s 0.04 u, eiSg 33 29.7, L 33 34, Lm 33 37.
10	e	02 37 23	
10	e	03 58 43	
10	iPg	12 40 41	D=34 km, 1 s 0.13 u, eiSg 40 45, Lm 40 49.
10	Lm	12 50 46	
11	eiSg	09 28 26.8	1 s 0.01 u, Lm 28 34.
11	eiPg	19 24 20.5	D=39 km, 1 s 0.07 u, i 24 22.2, iSg 24 25.0, L 24 29, Lm 24 32.
12	ei	03 25 41	1 s 0.01 u, Lm 25 47.
12	e	10 45 23	
12	e	10 45 23	
12	e	11 13 42	1 s 0.01 u, Lm 13 48.
12	iPg	12 36 56.5	D=39 km, 1 s 0.2 u, iSg 37 01, Lm 37 06.
12	e	14 57 42	
12	ei	17 32 06	Lm 32 13.5.
13	e	03 48 32	
13	eiPg	10 30 23.5	S=63 km, 1 s 0.1 u, eiSg 30 31, Lm 30 36.
13	ei	10 37 03	1 s 0.02 u, Lm 07 06
13	ei	18 46 29	1 s 0.04 u, iSg 46 31.5, L 46 36, Lm 46 39.
14	e	05 41 01	1 s 0.01 u, Lm 41 08.
14	e	05 55 50	e 55 52.
14	e	12 41 56	ei 42 04.
14	iPg	12 56 58.6	D=14 km, iSg 57 00.3.
15	ePg	09 51 28.5	D=68 km, 1 s 0.01 u, eSg 51 36.5, Lm 51 42.
15	iPg	10 35 24	D=36 km, 1 s 0.01 u, iSg 35 28.5, Lm 35 32
17	iPg	12 39 19	D=34 km, 1 s 0.03 u, iSg 39 23, Lm 39 27.
18	iPg	11 16 34.5	1 s 0.03 u, iSg 16 38, Lm 16 40.
19	ei	09 04 29.8	Lm 04 32.6.
19	e	10 42 22	Lm 42 26.
		59	0.5 s 0.05 u, Lm 09 02.5.

Date	Phase	h m s	Remarks
21	eiPg	00 59 03.5	i 59 04.5, Lm 59 10.
21	ei	11 10 17.5	eiSg 10 27, Lm 10 32.
21	iPg	12 36 40	C. D=30 km, 0.7 s 0.11 u, Lm 36 46.
21	iPg	13 45 50.8	D=13 km, 0.5 s 0.09 u, iSg 45 52.3, Lm 45 53.5.
22	e	00 55 57	1 s 0.01 u, eiSg 56 00.3, Lm 56 07.
22	eiSg	07 37 28	1 s 0.03 u, Lm 37 32.
22	e	10 36 08	1 s 0.01 u, iSg 36 12.0, Lm 36 15.
24	e	08 41 02	eiSg 41 10.5, Lm 41 15.
24	eiPg	12 30 46.2	D=33 km, 0.6 s 0.14 u, iSg 30 42.7, Lm 30 45.
24	iPg	12 33 46.6	D=51 km, 0.8 s 0.03 u, iSg 33 52.6, Lm 34 06.
25	e	11 03 27	Lm 03 32.
25	e	14 55 11	Lm 55 19.
26	e	09 14 15	0.8 s 0.03 u, iSg 14 18.5, Lm 14 22.
26	iPg	12 38 28	D=39 km, 1 s 0.15 u, iSg 38 32.5, L 38 34, Lm 37.
26	iPg	13 33 25	0.6 s 0.04 u, iSg 33 27.6, Lm 33 28.5.
26	e	13 50 02	Lm 50 11.
27	ePg	11 38 30.5	eSg 38 39, Lm 38 43.
27	eiSg	17 09 09	1 s 0.02 u, L 09 13, Lm 09 17.
28	eiSg	02 20 27	Lm 00 34.
28	ei	09 26 34.6	Lm 06 49,
28	eiPg	11 25 24.2	D=46 km, 1 s 0.03 u, iSg 25 29.7, Lm 25 33.5.
28	eiPg	12 07 59.3	ei 08 02.6, Lm 08 07.
31	eiSg	12 01 16.5	Lm 01 23.
31	iPg	13 07 46.6	D=34 km, 0.5 s 0.05 u, iSg 07 50.6, Lm 07 54.5.
			February 1966
1	eiPg	07 08 47.3	D=37 km, 1 s 0.07 u, ei 08 48.8, eiSg 08 51.5, Lm 08 55.5, Lm 08 59.
1	e	09 13 14	0.7 s 0.01 u, Lm 13 17.
1	e	10 18 19	
1	eiPg	12 30 45.5	D=81 km, eiSg 30 55, ei 30 57.5.
1	iPg	14 00 05.6	D=21 km, 0.6 s 0.3 u, iSg 00 08.1, Lm 00 15.6.
1	e	15 15 41	1 s 0.03 u, eiSg 15 48, Lm 15 57.
2	e	08 39 00	eiSg 33 04.3, Lm 39 08.5.
2	ePg	12 20 43	D=34 km, 1 s 0.03 u, eiSg 20 47, Lm 20 52.
2	ePg	12 36 17	D=34 km, 0.6 s 0.02 u, eiSg 36 21, Lm 36 24.
2	eiPg	14 32 50.3	1 s 0.06 u, i 32 52, L 35 56, Lm 36 02.
2	ei	15 34 38	1 s 0.01 u, Lm 34 45.
2	e	15 46 47	Lm 36 51.
3	ei	09 32 09.7	1 s 0.03 u, ei 32 12.2, Lm 32 21.
3	eiPg	12 02 27.3	D=17 km, 0.7 s 0.15 u, eiSg 02 29.3, Lm 02 32.
3	ei	12 04 31.5	1 s 0.02 u, eiSg 04 37, Lm 04 38.7.
3	e	15 51 25	Lm 51 32.
3	e	17 42 34	e 42 39.
4	eiPg	08 01 14	1 s 0.01 u, Lm 01 18.

Date	Phase	h m s	Remarks
4	e	09 00 55	0.8 s 0.02 u, ei 01 08, Lm 01 10.
4	eiPg	12 37 52.5	Lm 37 55.
4	ePg	12 40 47	1 s 0.04 u, Lm 40 55.
4	eiPg	15 21 01.5	D=49 km, 1 s 0.03 u, eiSg 21 07, Lm 21 13.5.
4	e	13 32 46	1 s 0.01 u, Lm 32 50.
4	eiPg	16 21 27.5	D=34 km, 1 s 0.02 u, eiSg 21 31.5, Lm 21 40.
5	ei	09 39 26.5	Lm 39 34.
5	ei	09 42 55	1 s 0.03 u, iSg 42 57.5, L 43 00.5, Lm 43 05.
5	eiPg	10 27 26.8	Lm 27 30.
5	eo	11 05 02.5	1 s 0.01 u, Lm 05 12.5.
5	e	11 45 10	Lm 45 18.
5	e	12 03 06	Lm 03 11.
6	ePg	17 58 44	D=40 km, 1 s 0.03 u, eiSg 58 48.7, L 58 53, Lm 56.
7	e	08 53 38	1 s 0.01 u, Lm 53 48.
7	e	11 57 02	Lm 57 11.
7	ei	12 27 04.5	i 27 10.7.
7	ei	12 54 28	Lm 54 35.
7	ei	22 55 31.8	Lm 55 39.
8	ei	12 01 22.5	eiSg 01 25.3.
8	ei	12 03 33	0.6 s 0.03 u, Lm 03 36.
9	e	02 16 35	Lm 16 40.
9	eiPg	12 24 55.5	D=26 km, iSg 24 28.5.
9	ei	12 34 39	0.5 s 0.01 u, Lm 34 41.5.
9	eiPg	12 39 42.5	D=39 km, 1 s 0.12 u, eiSg 39 47, Lm 39 51.5.
10	e	11 02 15	Lm 02 21.
10	eiPg	12 44 42	D=21 km, 0.5 s 0.02 u, eiSg 44 44.5, Lm 44 46.
11	e	08 15 16	1 s 0.01 u, Lm 15 21.
11	ePg	11 19 16	D=64 km, 1 s 0.01 u, eSg 19 23.5, Lm 19 29.
11	ei	11 30 06.3	1 s 0.02 u, Lm 30 14.
11	ei	12 53 22.6	Lm 53 25.5.
11	e	17 50 59	1 s 0.01 u, Lm 51 07.
11	e	19 42 50	Lm 43 13.
12	e	08 58 40	Lm 58 42.
12	iPg	11 00 03.6	D=14 km, iSg 00 05.2, Lm 00 05.6.
12	iPg	11 01 20.7	D=51 km, iSg 01 26.7, Lm 01 37.
12	e	14 38 25	eiSg 38 28.2.
14	eiPg	12 53 42.5	D=39 km, 1 s 0.09 u, eiSg 53 47, Lm 53 51.
15	ei	12 34 09	0.7 s 0.02u, Lm 34 12.
15	iPg	13 44 12.4	D=34 km, 1 s 0.12 u, iSg 44 16.4, Lm 44 21.
16	ePg	16 11 25.7	D=17 km, eiSg 11 27.7.
17	ei	12 01 19.3	eiSg 01 28.3, Lm 01 33.
17	eiPg	12 37 49.7	D=32 km, 0.5 s 0.05 u, eiSg 37 53.5, Lm 37 57.
		36.3	C. D=26 km, 0.5 s 0.6 u, iSg 13 39.3, Lm 13 40.9.
		25	1 s 0.01 u, Lm 11 29.

Date	Phase	h m s	Remarks
18	eiPg	12 32 11.4	0.6 s 0.03 u, Lm 32 14.
19	iPg	09 48 40.7	D=45 km, 0.7 s 0.06 u, iSg 48 45.7, Lm 48 53.
19	e	10 33 15	Lm 33 18.
20	ei	12 51 47	1 s 0.03 u, Lm 51 55.
21	e	10 56 02	1 s 0.01 u, Lm 56 07.
21	e	15 58 29	Lm 58 36.
23	eiPg	12 28 06	1 s 0.01 u, Lm 28 09.
23	eiPg	12 40 30.6	D=32 km, 1 s 0.01 u, eSg 40 34.3, Lm 40 39.
24	e	04 49 15	1 s 0.01 u, Lm 49 23.
24	e	08 49 41	1 s 0.03 u, Lm 49 47.
24	eiPg	09 00 26.5	1 s 0.03 u, ei 00 31.5, Lm 00 37.
24	eiSg	12 37 12.6	0.7 s 0.01 u, Lm 37 15.
25	eiPg	12 40 15.7	D=39 km, 1 s 0.1 u, eiSg 40 20.2, Lm 40 24.
26	ePg	10 29 53	D=26 km, eiSg 29 56.5, Lm 29 59.
26	e	14 36 43	1 s 0.01 u, Lm 36 55.
26	eiSg	22 49 23	Lm 49 30.
28	ei	02 06 33.3	e 06 35.6, Lm 06 44, 1 s 0.03 u.
28	e	14 15 12	1 s 0.01 u, ei 15 16, Lm 15 20.
			March 1966
1	eiSg	10 07 11	1 s 0.03 u, eL 07 15, Lm 07 18.
1	ePg	12 30 45	D=26 km, 1 s 0.27 u, iSg 30 48.2, Lm 30 52.5.
3	eiSg	08 27 43	1 s 0.01 u, eL 27 47, Lm 27 51.
3	eiPg	10 53 20.3	1 s 0.03 u, Lm 53 24.
3	eiSg	16 45 37	1 s 0.02 u, Lm 45 45.
4	e	10 19 34	1 s 0.01 u, Lm 19 40.
4	ei	12 29 18.5	Lm 29 21.5.
4	eiPg	12 30 18.5	1 s 0.03 u, Lm 30 26.
4	e	13 51 40	1 s 0.01 u, ei 51 51, Lm 51 54.
4	eiSg	17 17 41	1 s 0.01 u, Lm 17 46.
5	ei	08 02 44.5	Lm 02 51.5.
5	e	09 43 45	Lm 43 48.
7	ePg	12 12 56	D=39 km, 1 s 0.04 u, eiSg 13 00.5, Lm 13 05.
7	ei	22 41 43	1 s 0.01 u, Lm 44 50.
8	eiPg	04 25 03.5	D=39 km, 1 s 0.06 u, eiSg 25 08, Lm 25 16.
8	iPg	10 51 56.5	D=17 km, iSg 52 00.5, Lm 52 02.
8	e	10 55 59	Lm 56 02.
8	ei	11 54 56	Lm 55 03.
8	e	12 45 56	Lm 45 58.
8	e	14 37 44	Lm 37 53, 1 s 0.01 u.

Date	Phase	h m s	Remarks
10	ei	11 56 28	1 s 0.03 u, Lm 56 34.
11	iPg	09 02 57	D=17 km, 0.5 s 0.2 u, iSg 02 59, Lm 02 59.5.
11	e	11 12 12	1 s 0.02 u, ei 12 20, Lm 12 25.
11	e	16 48 14	Lm 48 21.
13	e	06 58 30	Lm 58 28.
14	e	12 22 35	eiSg 22 37.7, Lm 22 45.
16	e	04 32 55	ei 32 57.5, Lm 33 06.
17	e	04 33 05	Lm 33 13.
17	e	10 12 59	1 s 0.01 u, Lm 13 05.
17	ei	10 15 27.2	1 s 0.03 u, Lm 15 35.
17	eiPg	12 39 49.7	D=39 km, 1 s 0.13 u, eiSg 39 54.2, Lm 39 58.
17	e	13 00 11	Lm 00 15.
17	ei	13 15 00.7	0.5 s 0.07 u, Lm 15 01.5.
18	ePg	10 39 28	D=63 km, 1 s 0.02 u, eSg 39 35.5, Lm 39 41.
18	eiPg	12 22 33.5	D=26 km, 0.6 s 0.1u, iSg 22 36.5, Lm 22 39.
19	e	09 19 22	0.7 s 0.03 u, ei 19 30.5, Lm 19 37.
21	eiSg	11 11 07.5	Lm 11 09.
21	e	12 31 15	Lm 31 18.
21	e	16 39 42.5	Lm 39 45.
23	e	02 29 18	Lm 29 25.
23	ePg	12 01 32	D=21 km, 0.5 s 0.08 u, eiSg 01 34.5, Lm 01 37.
25	ei	12 27 15	Lm 27 18.
25	e	13 41 24	1 s 0.06 u, eiSg 41 41.7, Lm 41 47.
26	eiSg	03 52 24	1 s 0.01 u, Lm 52 32.
26	e	09 11 43	1 s 0.15 u, Lm 11 50.
26	iPg	09 26 54.7	Explosion of 8 Tons, 50°10.5'N 14°23.8'E, Dc= 25 km, iSg 26 57.7, Lm 27 02.
28	ei	12 36 39.6	Lm 36 43.
28	eiPg	13 52 39	1 s 0.09 u, iSg 52 43.5, Lm 52 47.5.
28	e	21 05 21	1 s 0.01 u, Lm 05 29.
28	e	20 53 52	iSg 53 54.5, Lm 54 03.
29	eiPg	09 10 31	D=26 km, eiSg 10 34, Lm 10 37.
29	iPg	09 34 11.5	D=39 km, iSg 34 16, Lm 34 19.
29	eiPg	12 28 10.8	Lm 28 13.5.
29	ei	13 53 21.5	Lm 53 31.
30	iPg	12 36 29	D=29 km, eiSg 38 32.5, Lm 36 39.
			April 1966
1	eiPg	12 43 12	D=22 km. iSg 43 14.5.
2	e	07 45 09	1 s 0.01 u, Lm 45 14.

Date	Phase	h m s	Remarks
2	e	12 47 10	1 s 0.01 u, Lm 47 19.
2	e	21 04 02	1 s 0.01 u, Lm 04 10.
4	e	17 50 28	1 s 0.01 u, Lm 50 35.
4	ei	18 06 56	
5	eiPg	11 54 53.3	D=60 km, 1 s 0.07 u, eiSg 55 00.3, Lm 55 07.
5	eiPg	12 47 00.3	1 s 0.09 u, Lm 47 15.5.
5	eiPg	13 59 01.3	D=29 km, 1 s 0.16 u, eiSg 59 03.8, Lm 59 06.
6	eiPg	00 49 50	D=40 km, 1 s 0.15 u, i 49 52, iSg 49 54.6, Lm 50 52
6	iPg	12 24 32.3	D=25 km, 0.5 s 0.1 u, iSg 24 35.3, Lm 24 38.
6	ei	16 26 45.8	Lm 26 53.
7	eiSg	11 14 06	1 s 0.1 u, Lm 14 11.
7	iPg	12 16 08.5	D=13 km, 0.5 s 0.09 u, eiSg 16 10, Lm 16 11.
7	eiPg	12 17 34.5	D=25 km, 0.5 s 0.02 u, eiSg 17 37.5, Lm 17 40.
7	iPg	12 25 21.4	D=13 km, iSg 25 22.9, Lm 25 24.
8	iPg	10 39 39.6	D=21 km, iSg 39 42.1, Lm 39 44.
8	eiPg	12 25 20.5	eiSg 29 24.6, Lm 29 28.
8	e	20 12 56	Lm 13 04.
9	eiPg	10 28 28	D=29 km, 0.7 s 0.03 u, eiSg 28 31.5, Lm 28 34.5.
9	ePg	10 33 01	1 s 0.06 u, ei 33 07, Lm 33 11.
9	ePg	19 10 46	D=47 km, 0.8 s 0.02 u, eiSg 10 51.5, Lm 10 55.
12	eiSg	05 36 28	1 s 0.01 u, Lm 36 35.
12	eiSg	11 57 36.2	1 s 0.04 u, Lm 57 41.
13	eiPg	10 19 15.5	D=52 km, 1 s 0.1 u, eiSg 19 21.5, Lm 19 27.
13	eiPg	12 24 45.5	D=21 km, eSg 24 28.
13	eiPg	12 39 58.5	D=39 km, 1 s 0.14 u, eiSg 40 03, Lm 40 08.
13	ei	23 29 44	Lm 29 51.
14	eiSg	05 36 41	1 s 0.01 u, Lm 36 48.
15	ePg	09 19 22	D=60 km, 1 s 0.01 u, eSg 19 30, Lm 19 35.
15	eiPg	11 21 41	D=63 km, 0.5 s 0.05 u, iSg 21 46.5, Lm 21 53.
15	eiSg	23 49 11	Lm 49 18.
15	eiPg	10 53 43	D=44 km, 1 s 0.12 u, eSg 53 48, Lm 53 52.
16	eiSg	13 31 57.5	1 s 0.03 u, Lm 32 05.
18	iPg	12 01 47	D=17 km, 1 s 0.14 u, iSg 01 49, Lm 01 52.
18	e	12 45 06	Lm 45 10.
18	ei	19 42 09.5	1 s 0.06 u, eiSg 42 12, L 42 15.2, Lm 42 20.
19	ei	09 32 20	1 s 0.03 u, Lm 32 28.
19	e	12 34 13	0.7 s 0.03 u, Lm 34 15.
19	ePg	20 29 34	D=30 km, 1 s 0.06 u, eiSg 29 37.5, Lm 29 45.
20	ePg	11 38 39.7	D=70 km, 1 s 0.03 u, eiSg 39 08.7, Lm 39 12.5.
20	e	12 46 23	Lm 46 30.
21	ePg	10 41 44.8	D=68 km, 1 s 0.01 u, eiSg 41 52.7, Lm 41 56.
21	eSg	12 11 56.8	Lm 11 57.

Date	Phase	h m s	Remarks
22	eiSg	00 05 29.3	1 s 0.01 u, Lm 05 37.
22	iPg	09 14 12	D=22 km, 0.7 s 0.06 u, iSg 14 14.0, Lm 14 17.
22	eiPg	10 07 25.2	D=13 km, 0.5 s 0.04 u, eiSg 07 26.7, Lm 07 37.
22	ePg	10 32 04	D=55 km, 1 s 0.01 u, eiSg 32 10.5, Lm 32 14.
22	eiSg	11 00 24.3	Lm 00 31.
22	eSg	12 21 15.7	0.5 s 0.02 u, Lm 21 18.5.
22	eSg	12 34 40	1 s 0.03 u, eL 34 43, Lm 34 47.
23	iPg	10 30 40.1	D=18 km, 0.5 s 0.35 u, iSg 30 42.2, Lm 30 42.5.
25	eiPg	11 29 00	D=85 km, iSg 29 10.
25	eiPg	20 24 44	D=55 km, iSg 24 50.5.
26	ei	12 36 49	0.5 s 0.03 u, Lm 36 52.
27	e	10 53 43	1 s 0.01 u, Lm 53 49.
27	eSg	12 30 33	Lm 30 40.
27	ePg	12 39 30	1 s 0.06 u, ei 39 34.5, Lm 39 38.
28	e	01 15 07	1 s 0.03 u, eiSg 15 10.5, Lm 15 19.
28	ePg	04 25 41	1 s 0.08 u, eiSg 25 45.6, Lm 25 54.
28	e	05 23 42	1 s 0.01 u, Lm 23 51.
28	eiPg	10 30 18	D=39 km, 0.6 s 0.07 u, eiSg 30 22.5, Lm 30 28.
28	e	11 10 46	1 s 0.02 u, Lm 11 50.
28	ei	12 22 40.5	0.5 s 0.03 u, Lm 22 43.5.
28	ei	12 40 25	
28	iPg	12 48 30	D=17 km, 0.5 s 0.23 u, iSg 48 32, Lm 48 33.
29	ei	09 37 36.5	1 s 0.01 u, Lm 37 43
29	eiPg	09 40 30.3	D=39 km, 1 s 0.06 u, eiSg 40 34.8, Lm 40 43.
29	ePg	11 17 03.7	D=36 km, 1 s 0.04 u, eiSg 17 07.9, Lm 17 13.
29	e	11 21 43	
29	e	12 29 47	0.7 s 0.03 u, eiSg 29 49.2, Lm 29 52.5.
29	ePg	12 40 01	D=40 km, 1 s 0.08 u, eiSg 40 05.7, Lm 40 11.
29	e	14 58 50	1 s 0.01 u, Lm 58 53.
30	eiPg	09 26 35	D=39 km, 1 s 0.08 u, eiSg 26 39.5, Lm 26 44.
30	eiPg	17 22 25.3	D=17 km, 0.6 s 0.02 u, eiSg 22 27.3, Lm 22 28.5.
			May 1966
2	e	12 26 15	0.7 s 0.04 u, ei 26 20, Lm 26 21.5.
2	eiPg	18 17 34.5	D=39 km, 1 s 0.03 u, iSg 17 39.0, L 17 41, Lm 47.
3	eiPg	08 57 27	D=29 km, 1 s 0.03 u, iSg 57 30.5, Lm 57 32.
3	ei	10 19 17	1 s 0.01 u, Lm 19 22.
4	e	09 46 13.5	eiSg 46 21.
4	ei	11 02 08.5	Lm 02 12.
4	ei	12 17 25.5	0.8 s 0.03 u, Lm 17 28.5.
4	e	23 42 48	1 s 0.03 u, iSg 42 51.0, Lm 42 59.
5	e	11 17 56	1 s 0.01 u, Lm 18 06.
5	ei	15 01 20	1 s 0.01 u, eiSg 01 25, Lm 01 26.
6	eiPg	09 09 36.7	D=39 km, 1 s 0.05 u, eiSg 09 41.2, Lm 09 46.

Date	Phase	h m s	Remarks
7	eiPg	03 30 32.8	D=34 km, iSg 30 36.8.
7	eiPg	10 42 10	D=52 km, 1 s 0.06 u, eiSg 42 17, Lm 42 18.2.
10	ePg	10 32 50	1.2 s 0 02 u, Lm 33 03.
10	e	12 25 05	0.6 s 0.03 u, ei 25 09, Lm 25 11.5.
10	e	12 35 04	Lm 35 06.7.
10	eiPg	15 25 04.6	1 s 0.02 u, Lm 25 12.
11	ei	13 19 26.5	1 s 0.01 u, Lm 19 33.
11	ei	19 22 55	1 s 0.03 u, eiSg 22 57.5, Lm 23 05.
11	ePg	19 45 17.5	D=39 km, 1 s 0.04 u, eiSg 45 22, Lm 45 30.
12	eSg	04 16 45	1 s 0.03 u, Lm 16 52.
12	eSg	04 51 44	1 s 0.01 u, Lm 51 51.
12	eSg	05 45 41	1 s 0.01 u, Lm 45 48.
12	eiPg	10 58 32.5	D=27 km, eiSg 58 36.
12	eiPg	12 26 05	D=9 km, 0.5 s 0.12 u, iSg 26 06.2, Lm 26 08.
13	eiSg	10 57 43.2	1 s 0.01 u, Lm 57 49.
13	eiSg	20 00 51	1 s 0.02 u, Lm 00 58.
13	ei	20 02 13	1 s 0.01 u, eiSg 02 15.5, Lm 02 24.
13	iPg	22 43 07.4	D=39 km, 1 s 0.12 u, i 43 09.4, iSg 43 11.9, Lm 43 20.
14	e	03 20 30	Lm 30 37.
14	ei	09 40 46.2	1 s 0.03 u, eiSg 40 49.4, Lm 40 53.7.
17	ei	09 36 30	
17	eiPg	12 40 40.5	D=39 km, 1 s 0.14 u, iSg 40 45, Lm 40 48.
19	e	10 04 20	1 s 0.01 u, Lm 04 26.
19	ei	12 24 56.4	
19	ePg	12 39 32	D=34 km, 1 s 0.03u, eiSg 39 36, Lm 39 40.
19	i	17 52 33	1 s 0.02 u, Lm 52 40.
19	iPg	18 15 05.5	D=34 km, iSg 15 09.5.
19	eiPg	19 44 21	D=34 km, eiSg 44 25.
20	eiPg	00 41 08	1 s 0.03 u, eiSg 41 12.5, Lm 41 21.
21	e	06 27 22	1 s 0.01 u, Lm 27 29.
23	e	10 03 26	1 s 0.03 u, Lm 03 33.
23	eiPg	12 34 32.5	D=29 km, 0.7 s 0.04 u, eiSg 34 36, Lm 34 39.
23	ePg	14 51 15	D=34 km, iSg 51 19.
24	e	10 45 06	1 s 0.01 u, Lm 45 11.
24	eiPg	12 41 47	D=39 km, 1 s 0.14 u, eiSg 41 51.5, Lm 41 57.
24	ei	12 52 14.6	1 s 0.02 u, Lm 52 23.
25	e	12 43 17	0.7 s 0.03 u, Lm 43 21.5.
25	eiSg	12 59 28	1 s 0.06 u, Lm 59 32.
25	iPg	13 14 37.5	D=17 km, 0.5 s 0.23 u, iSg 14 39.5, Lm 14 41.5.
26	eiPg	10 18 21.5	D=68 km, eiSg 18 29.5, Lm 18 38.
26	eiPg	12 24 34.5	0.5 s 0.08 u, eiSg 24 38.5, Lm 24 41.
26	ePg	16 45 02	1 s 0.03 u, eiSg 45 06, Lm 45 10.5.
27	e	07 02 14	0.9 s 0.01 u, Lm 02 17.

Date	Phase	h m s	Remarks
27	ePg	09 25 05	D=39 km, 1 s 0.03 u, eiSg 25 09.5, Lm 25 14.5.
27	eiPg	09 56 08.4	D=39 km, 0.9 s 0.06 u, iSg 56 12.9, Lm 56 17.
27	e	10 40 26	Lm 40 29.
27	e	10 42 09	
27	iPg	16 00 11.5	D=34 km, 1 s 0.16 u, iSg 00 15.5, Lm 00 20.
28	eiPg	12 02 44.5	D=25 km, 0.6 s 0.04 u, iSg 02 47.4, Lm 02 49.6.
30	ePg	12 46 51	D=34 km, 0.6 s 0.06 u, eiSg 46 55, Lm 46 57.5.
30	e	12 48 05	0.6 s 0.07 u, iSg 48 07, Lm 48 09.
31	Lm	11 26 49	1 s 0.01 u.
31	e	12 40 26	1 s 0.05 u, Lm 40 31.
			June 1966
1	e	09 17 36	1 s 0.03 u, eiSg 17 47, Lm 15 53.
2	eiPg	07 16 15	D=34 km, 1 s 0.06 u, iSg 16 19, Lm 16 27.
2	ei	12 37 07	0.7 s 0.03 u, Lm 37 10.
3	ei	12 42 30.5	Lm 42 34.
3	e	14 29 26	1 s 0.02 u, Lm 39 34.
3	iPg	20 30 40.5	D=25 km, 0.5 s 0.13 u, iSg 30 43.5, Lm 30 46.
4	iPg	02 12 40.5	D=55 km, 1 s 0.04 u, iSg 12 47, Lm 12 50.
4	eiPg	10 59 05	D=60 km, eiSg 59 12, Lm 59 14.
4	e	22 17 26	Lm 17 33.
5	eiPg	08 42 39.8	D=1.3°, eiSg 42 57.2.
6	eiPg	12 35 44	D=28 km, iSg 35 47.7.
6	e	12 41 08	eiSg 41 11.7, Lm 41 16.
7	e	09 44 49	eiSg 44 53.2.
7	eiPg	10 15 30.6	ei 15 41.1.
7	eiSg	12 03 38.5	1.1 s 0.02 u, Lm 03 44.5.
7	ePg	12 05 00	D=17 km, 0.7 s 0.09 u, eiPg 05 02, Lm 05 05.
7	e	12 46 12	1 s 0.07 u, Lm 46 24.
8	e	08 27 37	Lm 27 44.
8	e	12 58 17	
8	ePg	13 42 13.5	D=85 km, eiSg 42 23.5.
9	iPg	04 40 03	0.5 s 0.27 u, iSg 40 05.7, Lm 40 09.
9	e	08 58 03	1 s 0.03 u, eiSg 58 07, Lm 58 11.
9	eSg	12 32 13	
9	ePg	12 42 02.5	D=60 km, eiSg 42 09.4.
10	eSg	12 10 12	
10	e	12 41 20	eiSg 41 23.8.
10	e	12 52 47	eiSg 53 10.
10	ePg	13 59 40	D=76 km, 0.7 s 0.03 u, eiSg 59 48.6, Lm 59 59.
11	eiPg	10 50 17	1 s 0.06 u, e 50 30, Lm 50 34.

Date	Phase	h m s	Remarks
13	eiPg	09 08 25.4	D=90 km, eiSg 08 35.8, Lm 08 41.
13	e	11 07 52	eiSg 08 04.
13	e	11 26 16	eiSg 26 20, Lm 26 23.
13	e	14 47 02	eiSg 48 10.5.
14	e	12 32 44	eiSg 32 48, Lm 32 51.
14	eiSg	12 36 25	Lm 36 32.
14	eiPg	13 00 04	D=100 km, eiSg 00 16.
15	e	11 51 07	eiSg 51 21.
15	eSg	12 15 20	1 s 0.07 u, Lm 15 24.
15	eSg	12 59 45.5	Lm 59 52.
16	e	11 46 02	
16	e	12 04 00	eiSg 04 12.5.
16	ePg	12 35 07	D=36 km, eiSg 35 11.5.
17	e	07 44 31	1 s 0.03 u, eSg 44 36, Lm 44 44.
17	eSg	08 32 48	1 s 0.02 u, Lm 32 53.
18	ePg	02 55 39	D=55 km, eiSg 55 45.5, Lm 55 49.
18	iPg	10 31 47.8	D=17 km, iSg 31 49.8.
20	e	12 32 25	0.7 s 0.03 u, eiSg 32 28, Lm 32 31.
20	e	12 40 28	1 s 0.07 u, eSg 40 33, Lm 40 37.
20	eiPg	13 00 28.4	D=85 km, eiSg 00 38.4.
21	eiSg	08 12 45.5	Lm 12 51.
21	eiSg	09 10 08	0.8 s 0.03 u, Lm 10 11.
21	eiPg	12 22 45	D=29 km, 1 s 0.05 u, iSg 22 48.5, Lm 22 51.
22	eiPg	12 32 34	0.6 s 0.04 u, Lm 32 48.
22	ePg	12 41 24	D=39 km, eiSg 41 28.5, Lm 41 33.
22	ei	12 42 52.6	0.7 s 0.01 u, Lm 42 55.5.
22	e	23 21 01	1 s 0.05 u, ei 21 03.5, eiSg 21 06, Lm 21 24.
23	e	12 33 43	0.7 s 0.05 u, Lm 33 48.
23	ePg	19 02 10	D=34 km, 1 s 0.04 u, eiSg 02 14, Lm 02 22.
24	ePg	07 35 48	C. D=29 km, 0.5 s 0.53 u, iSg 35 51.5, Lm 35 52.
24	ePg	10 53 57	D=77 km, eiSg 54 06, Lm 54.
24	eiSg	11 46 52	1 s 0.01 u, Lm 46 58.
24	eiPg	12 00 10.3	D=93 km, eSg 00 21.3.
25	iPg	09 40 25.6	D=39 km, 1 s 0.03 u, iSg 09 30.1, Lm 09 34.
26	eSg	10 57 49	1 s 0.01 u, Lm 57 57.
28	eiSg	12 29 33.2	0.7 s 0.05u, Lm 29 36.2.
29	eiPg	09 59 22.5	D=98 km, 1 s 0.04 u, eiSg 59 34, Lm 59 40.
29	eiPg	12 01 31	D=17 km, 0.6 s 0.14 u, eiSg 01 33, Lm 01 37.
30	iPg	11 02 27	D=42 km, iSg 02 32, Lm 02 35.

Seismic observations of the station Praha

January - June 1966

J. Janský

Instruments:

I = Seismograph Wiechert, mass 1000 kg, air damping, components N, E, mechanic registration.

II = Seismograph Kirnos, components N, E, Z, galvanometric registration.

Station coordinates: $\varphi = 50^{\circ}04'13''$ N, $\lambda = 14^{\circ}25'59''$ E.

Elevation: h = 225 m.

Lithologic foundation: ordovicien (Zahořany layers).

Instrument I

Component	NS			EW		
	T_o	V_o	ε:1	T_o	V_o	ε:1
January	9.5	170	4.6	9.6	155	5.0
February	9.2	196	3.3	9.3	165	4.5
March	9.6	193	4.0	9.8	149	4.9
April	9.5	187	4.0	9.5	139	4.4
May	9.6	186	3.5	9.7	147	4.0
June	10.1	178	3.7	9.6	172	3.4

Instrument II January - June 1966

		T_1	T_2	D_1	D_2	σ^2	V
Component	NS	12.2	1.23	0.430	4.77	0.0144	610
	EW	12.4	1.20	0.430	4.95	0.0107	560
	Z	13.0	1.14	0.455	4.50	0.180	530

Date	Phase	h m s	Remarks
3	ePKP	13 52 20	Fiji Islands. Dc=148.9°.
	e	52 27	
5	eP	17 33 04	Andaman Islands. MLH=5.3 Praha. Dc=74.1°.
	e	33 10	LmH: 15s 1.2 μ, LmV: 15s 2.1 μ.
	ePcP	33 20	
	e	33 44	
	e	34 36	
	e(S)	42 46	
	e	43 00	
	e	45 25	
	Lm	18 14	
7	eSg	12 00 27.0	Explosion of 15.2 tons. Dc=58 km.
	e	00 36	
	e	00 51	
11	eP	14 28 52	Japan. MLH=6.3 Praha. Dc=82.4°. LmH: 13s 8.7 μ,
	Lm	15 11	LmV: 13s 15.6 μ.
13	eiP	10 52 58.7	Aleutian Islands. Dc=75.7°.
	e	53 04	
	e	53 19	
15	Lm	12 47	Gulf of Alaska. MLH=5.4 Praha. Dc=69.6°. LmH: 12s 1.2 μ, LmV: 13s 1.8 μ.
15	Lm	18 18.4	Aegean Sea. MLH=3.9 Praha. Dc=14.6°, LmH: 10s 0.5 μ, LmV: 9s 0.9 μ.
16	eP	09 23 35	Aleutian Islands. Dc=75.8°.
16	eiSg	12 36 14.0	Belgium. Dc=6.6°.
16	e(P)	18 56 21	Mediterranean Sea. Dc=18.8°.
17	ePKP	18 08 47	Fiji Islands. Dc=149.2°.
19	eSg	07 04 13	France. Dc=6.7°.
22	Lm	00 35.7	Turkey. MLH=4.8 Praha. Dc=16.6°. LmH: 8s 2.1 μ, LmV: 9s 2.2 μ.
22	ePKP	11 19 41	Fiji Islands. Dc=146.3°.
22	eP	14 38 41	South of Alaska. MLH=6.1 Praha. D=75.6°,
	e(PcP)	38 49	Dc=73.9°. LmH: 16s 8.7 μ, LmV: 15s 6.7 μ.
	e(PPP)	43 17	
	eS	48 17	
	e	48 30	
	e(ScS)	48 39	
	e(PS)	48 54	
	eSS	53 01	
	Lm	15 20	

Date	Phase	h m s	Remarks
23	e(Sg)	01 33 43	Italy. Dc=4.4°.
	e	33 47	
24	eP	07 31 32	West Pakistan. MLH=5.1 Praha. Dc=45.6°.
	eS	38 15	LmH: 12s 1.5/u, LmV: 13s 3.2/u.
	Lm	57	
26	eP	11 30 51	Philippine Islands. Dc=85.3°.
28	eiPKP1	04 55 21.8	Fiji Islands. Dc=144.8°.
	e	55 46	
	epPKP1	57 31	
	e	58 44	
28	e	06 01 51	New Hebrides Islands. MLH=6.3 Praha. Dc=141.0°.
	e	06 19	LmH: 18s 6.0/u, LmV: 22s 11.6/u.
	e	12 34	
	Lm	07 01	
28	ePg	17 54 39	Switzerland. Dc=5.7°.
	eSg	55 54	
	eL	56 00	
28	eP	22 49 36	Kamchatka. Dc=73.9°.
	e	50 25	
30	ePKP	11 24 39	Loyalty Islands Region. Dc=146.2°.
31	ePKP	08 53 20	Loyalty Islands Region. Dc=146.1°.

Date	Phase	h m s	Remarks
2	eSg	02 27 28	Italy. Dc=4.0°.
	e	27 38	
	e	28 35	
2	ePKP1	05 53 46	Tonga Islands. Dc=147.2°.
	e	53 50	
	e	54 02	
2	ePKP1	17 30 00	Tonga Islands region. Dc=150.2°.
3	eP	06 01 48	Northern Celebes. Dc=102.1°.
	ePP	06 01	
	e	06 12	
3	eP	12 11 16	Philippine Islands. Dc=87.0°.
4	ePKP	05 24 18	Tonga Islands. Dc=150.7°.
4	eP	08 42 04	Mediterranean Sea. MLH=4.6 Praha. Dc=17.2°.
	e	42 32	LmH: 12s 2.2/u, LmV: 12s 2.2/u.
	eL	50	
4	e	11 01 02	New Hebrides Islands. Dc=139.8°.
	eiPP	01 38.8	
	e	02 04	
5	eiP	02 04 39.2	C. Greece. MLH=6.1 Praha. D=12.0°, Dc=12.1°.
	ei	04 42.5	LmH: 9.5s 95/u.
	eiPP	04 48.5	
	ei	04 52.5	
	ePPP	05 03	
	eiS	06 56.0	
	i	07 54.2	
	eL	08 24	
	Lm	10	
5	e	03 01 11	Greece. Dc=12.1°.
5	eP	15 23 40	China. MLH=6.1 Praha. D=71°, Dc=69.6°
	epP	23 43.7	LmH: 12s 8/u, LmV: 12s 14.9/u.
	e	24 18	
	ePP	26 16	
	ePPP	28 06	
	eS	32 52	
	ePS	33 19	
	Lm	56	
5	eiP	16 27 31.7	Kurile Islands. Dc=74.8°.
	e	27 38	
	esP	28 20	
	e	30 10	
	e	30 54	
7	e	04 34 45	West Pakistan. Dc=45.7°.
7	eSg	12 04 46	Explosion of 29.4 tons. Dc=102 km.
	e	05 02	
	eLm	05 10	

Date	Phase	h m s	Remarks
7	e(P)	23 15 05	West Pakistan. MLH=6.1 Praha. D=45°, Dc=45.6°.
	e	15 24	LmH: 13s 14.2/μ.
	ePP	16 54	
	ePPP	17 34	
	e	18 29	
	iS	21 44.2	
	ePPS	22 00	
	Lm	38 30	
9	Lm	05 52	South Sandwich Islands. MLH=6.2 Praha. Dc=111.5°. LmH: 20s 7.6/μ, LmV: 20s 5.3/μ.
10	eP	05 41 57	Japan. MLH=5.7 Praha. Dc=86.7°. LmH: 16s 2.6/μ,
	Lm	06 28	LmV: 15s 2.3/μ.
10	e	14 35 05	Mariana Islands. MLH=6.0 Praha. Dc=97.6°.
	ePP	38 45	LmH: 15s 4.7/μ, LmV: 14s 7.7/μ.
	e	41 08	
	e	45 37	
	eSKS	46 22	
	eSS	52 58	
	Lm	15 27	
10	ePKP	15 17 53	Tonga Islands. Dc=148.8°.
	e	18 22	
12	eL	13 43 48	Greece. Dc=12.1°.
13	eP	10 55 51	China. MLH=5.7 Praha. D=71°, Dc=69.6°.
	ePP	58 31	LmH: 13s 2.9/μ.
	eS	11 05 02	
	ePS	05 23	
	Lm	23 48	
14	eP	18 01 54	Mediterranean Sea. MLH=4.4 Praha. Dc=17.7°.
	Lm	10	LmH: 12s 1.3/μ, LmV: 10s 1.2/μ.
14	Lm	20 25	Greece. MLH=4.2 Praha. Dc=12.2°. LmH: 10s 1.4/μ, LmV: 10s 2.4/μ.
15	e	10 16 30	Tonga Islands region. Dc=151.9°.
16	ePKHKP	03 37 49	New Hebrides Islands. MLH=6.8 Praha. Dc=141.3°.
	e	38 04	LmH: 20s 20/μ, LmV: 22s 19/μ.
	ePP	40 58	
	e	41 09	
	ePKS2	41 53	
	e	43 54	
	eSKKS	47 53	
	ePS	51 13	
	ePPS	53 17	
	eSSP	04 00 15	
	Lm	36	

Date	Phase	h m s	Remarks
17	iP	12 01 45.5	Mid-Indian rise. Dc=99.8°.
	ePP	05 45	
	e	06 03	
22	ePKP	05 21 35	New Britain region. MLH=7.0 Praha. Dc=122.8°.
	ePP	23 14	LmH: 21s 40/μ, LmV: 20s 51/μ.
	ePS	33 13	
	Lm	06 16	
26	eP	00 45 37	Aleutian Islands. Dc=76.2
28	eP	02 13 33	Japan Sea. Dc=75.1°.
	e	13 56	
	e	16 12	
28	eP	13 48 01	Ryukyu Islands. MLH=5.9 Praha. Dc=82.8°.
	e	48 11	LmH: 16s 3.8/μ, 14s 4.3/μ.
	e	53 20	
	Lm	14 28	

Date	Phase	h m s	Remarks
2	eP	02 42 05	Caucasus. MLH=4.8 Praha. Dc=23.5°.
	e	42 16	LmH: 10.5s 2.0/μ, LmV: 11s 1.5/μ.
	e	42 28	
	e	43 37	
	eS	46 10	
	Lm	52.8	
3	eP	03 37 13	C. Kurile Islands. MLH=5.7 Praha. Dc=76.1°.
	e	37 36	LmH: 16.5s 2.9/μ, LmV: 18s 3.9/μ.
	e	39 28	
	Lm	04 13.5	
5	ePKP1	00 19 12	New Zealand. Dc=163.4°.
	ePKP2	19 48	
	e	19 59	
	e	20 23	
	e(PP)	23 36	
5	ePKP	16 04 39	Fiji Islands Region. Dc=144.4°.
5	eP	21 04 32	North of Ascension Island. MLH=5.1 Praha.
	e	05 13	Dc=57.1°. LmH: 12.5s 1.1/μ, LmV: 15s 2.1/μ.
	Lm	33	
5	ePKP	23 09 25	Tonga Islands. Dc=151.1°.
6	eP	02 20 04	Tibet. Dc=51.5°.
6	eiP	02 25 02	Tibet. MLH=6.8 Praha. Dc=51.6°.
	e	25 05	LmH: 13s 56/μ.
	e	25 12	
	ePP	27 09	
	ePPP	28 18	
	ePcS	30 24	
	eS	32 31	
	ePPS	32 48	
	e	34 19	
	e(SS)	36 11	
	Lm	45.8	
6	ePKP	18 21 49	South of Fiji Islands. Dc=152.6°.
	e	22 27	
7	eP	01 21 04	Turkey. MLH=5.5 Praha. D=24°, Dc=22.0°.
	e	21 11	LmH: 13s 12.8/μ, LmV: 12s 12.4/μ.
	ePP	21 31	
	ePPP	21 47	
	e	22 24	
	eS	25 14	
	e	25 29	
	eSS	25 53	
	eSSS	26 20	
	Lm	32	

Date	Phase	h m s	Remarks
7	eP	21 40 19	Chine. MLH=7.4 Praha. D=71°, Dc=68.4°.
	e(PPP)	44 44	LmH: 15s 172/μ, LmV: 15s 37.4/μ.
	eS	49 21	
	eSS	53 57	
	e(SSS)	56 50	
	Lm	22 08	
8	ePKP	00 37 57	Tonga Islands. Dc=148.4°.
	e	38 06	
8	ePP	01 35 49	New Hebrides Islands. Dc=137.2°.
	e	36 34	LmV: 20s 3.7/μ.
	Lm	02 38	
8	eP	05 55 02	Molucca Passage. MLH=6.0 Praha. Dc=102.5°.
	e	55 23	LmH: 17.5s 4.4/μ, LmV: 17s 5.9/μ.
	e	57 10	
	ePP	59 18	
	eSKS	06 05 39	
	eS	06 35	
	Lm	46	
8	e	18 58 09	Greece. Dc=12.2°.
	L	58.8	
9	e	10 27 17	Explosion of 8 tons. D=14 km.
	ei	27 19.3	
	ei(L)	27 20.6	
11	eP	20 05 46	C. Mediterranean Sea. Dc=17.1°.
	e	05 54	
	e	06 19	
11	eP	23 24 27	North Atlantic ridge. Dc=48.9°.
11	eP	23 45 26	North Atlantic ridge. Dc=48.8°.
12	eiP	16 43 41.5	C.S. Taiwan region. MSH=7.8, MLH= 8.0 Praha.
	eiPP	46 44.5	D=83°, Dc=82.6°. SH: 9s 54/μ,
	eiPPP	48 43.0	LmH: 20s 910/μ.
	e	49 52	
	eiS	53 53.5	
	ePS	54 38	
	eSS	59 21	
	eSSS	17 04 14	
	Lm	26	
13	ePKP	19 00 26	Tonga Islands. Dc=150.2°.
	e	00 47	
14	ei	09 29 31.5	Explosion of 8 tons. Dc=11 km.
14	Lm	14 16.5	Greece. MLH=4.4 Praha. Dc=12.0°.
			LmH: 9.5s 2.0/μ, LmV: 10s 3.8/μ.

Date	Phase	h m s	Remarks
16	ePKP	12 32 49	Tonga Islands. Dc=150.5°.
	e	32 57	
	e	33 27	
16	ePg	13 28 23	Austria. Dc=3.3°.
	e	28 46	
	e	29 03	
	eSg	29 05	
	e	29 13	
	e	29 16	
	Lm	30.4	
17	eiPKIKP	16 09 06.9	Fiji Islands region. Dc=149.2°.
	iPKP1	09 12.7	
	iPKP2	09 19.7	
	e	10 06	
	e	10 40	
	e	11 08	
	e	11 33	
	epPKP(1)	11 40	
	esPKP(1)	12 43	
	e	13 27	
	esPP	16 15	
20	eiP	01 51 50.1	D. Uganda. MLH=6.9 Praha. Dc=50.7°.
	ePP	53 54	LmH: 16s 98 μ, LmV: 20s 87 μ.
	e	57 31	
	eS	59 12	
	ePS	59 21	
	e	02 03 15	
	Lm	16.8	
20	eP	05 57 36	Kazakh. Dc=39.9°.
	e	58 04	
	ePP	59 08	
	e	06 09 22	
	e	10 38	
	e	11 08	
	e	11 25	
	e	12 23	
	e	14.3	
20	eiPKP	08 07 18.5	Tonga Islands. Dc=146.5°.
20	ePKP1	09 24 15	Tonga Islands. Dc=150.3°.
	e	24 24	
	e	25 40	
22	eP	08 22 38	Northeastern China. Dc=68.3°.

Date	Phase	h m s	Remarks
22	eiP	08 30 37.6	Northeastern China. MPV=6.9, MSH=6.8,
	ePcP	31 08	MLH=7.1 Praha. D=68.6°, Dc=68.3°.
	e	32 04	PV: 6s 4.9 μ, SH: 10s 7.9 μ, LmH: 10.5s 74 μ.
	ePP	33 14	
	ePcS	35 08	
	eS	39 38	
	ePPS	40 23	
	eSS	43 58	
	eSSS	47 01	
	Lm	58.5	
23	iP	00 16 56.7	C.S.S. Taiwan region. MPV=7.2, MLH=6.1 Praha.
	esP	17 18	D=82°, Dc=83.1°. PV: 4s 6.4 μ, LmH: 15.5s
	ePP	19 57	5.7 μ, LmV: 16s 7.3 μ.
	eS	27 09	
	Lm	59.5	
24	ePKP	04 24 26	Fiji Islands region. Dc=150.4°.
25	ei	10 02 19.5	Explosion?
	e	02 22	
26	eP	15 30 04	Northeastern China. MLH=6.5 Praha.
	e	30 11	D=69°, Dc=68.2°. LmH: 12s 12.6 μ, LmV: 12s
	Lm	16 00.5	18.7 μ.
27	eP	19 06 33	Costa Rica. Dc=88.4°.
29	e	02 30 51	Volcano Islands region. Dc=93.2°.
	epP	31 12	
	eSKS	41 10	
	eS	41 40	
29	Lm	06 50.5	Northeastern China. MLH=6.0 Praha. Dc=68.3°.
			LmH: 12s 6.0 μ, LmV: 11s 1.4 μ.
30	eP	04 27 09	Arabian Sea. Dc=46.7°.
	e	27 16	
30	eS	13 01 36	Vancouver Island region. MLH=5.7 Praha.
	Lm	29	D=77.5°, Dc=75.9°. LmH=17s 3.8 μ,
			LmV: 17s 4.2 μ.
31	eP	23 45 36	Hindu Kush. Dc=42.1°.
	epP	46 23	
	esP	46 40	

Date	Phase	h m s	Remarks
1	e	10 15 27	Explosion of 7 tons. Dc=37 km
1	e	13 00 53	Explosion of 23.3 tons. Dc=136 km (Průhonice).
1	Lm	13 23	Greece. MLH=4.7 Praha. Dc=12.3°. LmH: 9s 3.6/u, LmV: 9s 5.5/u.
2	e	08 31 15	Explosion of 7.1 tons. Dc=102 km.
	e	31 26	
2	eP	22 55 31	Japan. Dc=80.5°.
	e	55 43	
3	eiP	04 55 54.0	Japan. Dc=81.7°.
	epP	56 06	
	e	57 50	
	ePP	58 53	
	Lm	05 22.8	
3	eP	11 39 20	Greece. MLH=5.0 Praha. Dc=12.1°. LmH: 9s 6.9/u, LmV: 9.5s 11.6/u.
	e	39 32	
	eL	43 07	
	Lm	44.7	
4	e	05 57 45	West of Macquarie Island. Dc=150.5°.
4	eP	06 53 47	Andaman Island region. Dc=73.4°.
	Lm	07 35	
5	Lm	09 38	Japan. MLH=5.6 Praha. Dc=80.5°. LmH: 12s 1.7/u.
6	Lm	04 13.5	Southeast Indian rise. Dc=118.7°. LmV: 16s 3.0/u.
6	Lm	20 38.5	Japan. MLH=5.6 Praha. Dc=82.2°. LmH: 15s 1.8/u, LmV: 14s 2.2/u.
7	eP	03 28 51	Ionian Sea. MLH=4.3 Praha. Dc=13.1°.
	Lm	03 34.8	LmH: 9s 1.3/u, LmV: 9s 2.1/u.
7	eSg	08 10 16	Dc=4.0°.
7	eP	09 54 58	Ryukyu Islands. Dc=83.7°.
	epP	55 11	
	e	55 48	
	Lm	10 39.5	
7	eSn	19 42 14	Italy. Dc=7.5°.
	e	43 19	
	e	44 16	

Date	Phase	h m s	Remarks
8	eiP	01 58 19.5	C.S. Kamchatka. MLH=6.4 Praha. Dc=74.4°.
	e	02 04 20	LmH: 14.5s 14.7/u, LmV: 15s 22.3/u.
	ePPS	08 36	
	e	08 58	
	Lm	36	
8	eP	05 58 44	North Atlantic Ocean. MLH=4.8 Praha.
	e	59 13	Dc=29.6°. LmH: 10.5s 1.1/u, LmV: 10s 1.1/u.
	Lm	06 11.5	
8	e	22 22 35	Kodiak Island region. Dc=73.2°.
9	eP	02 47 13	Costa Rica. Dc=88.3°.
9	eiP	02 54 58.8	C. Costa Rica. MPV=6.5 Praha. Dc=88.4°.
	e	55 08	PV: 4s 1.2/u, LmV: 16s 2.6/u.
	e	56 30	
	eS	03 05 55	
	Lm	03 30	
11	eP	16 50 37	Afghanistan - USSR border region. Dc=40.6°.
11	eS	23 21 24	Kodiak Island region. Dc=73.2°.
	Lm	56	
12	ePP	23 57 32	Central Chile. MLH=6.6 Praha. Dc=116.8°.
	e	57 55	LmH: 19.5s 14.6/u, LmV: 20s 21.4/u.
	e	59 54	
	ePS	00 07 16	
	e	07 35	
	eSS	14 04	
	Lm	45	
13	e	03 55 19	Near Coast of Central Chile. Dc=116.6°.
	Lm	04 45	
13	ePKP1	04 46 47	South of Fiji Islands. Dc=151.4°.
	epPKP1	49 01	
14	eP	18 55 43	Crete. Dc=16.9°.
	e	56 10	
16	eiP	01 38 43.5	Kodiak Island region. MLH=5.9 Praha.
	e	39 01	D=74°, Dc=73.0°. PV: 6s 2.5/u, LmH: 15.5s
	e	40 01	5.8/u, LmV: 18s 9.1/u.
	e	40 19	
	ePP	41 26	
	eS	48 16	
	ePS	48 45	
	Lm	02 16	
16	Lm	11 10	Japan. Dc=83.3°.

Date	Phase	h m s	Remarks
16	ePKP1	15 42 21	Fiji Islands region. Dc=149.5°.
18	Lm	10 07.5	Greece. Dc=12.2°. LmV: 10s 1.4 /u.
20	eP	16 47 31	Eastern Caucasus. MLH=5.4 Praha. Dc=24.7°.
	ei	47 34.0	LmH: 11s 7.7 /u, LmV: 11s 11.0 /u.
	eiPP	48 01.9	
	e	49 01	
	eS	51 55	
	e	52 06	
	eSS	52 55	
	ePcS	54 13	
	Lm	58.6	
21	eP	06 49 29	Crete. Dc=17.5°.
21	ePcP	15 57 56	Japan. MLH=6.2 Praha. Dc=82.7°.
	Lm	40	LmH: 13s 7.7 /u, LmV: 13s 12.3 /u.
21	eP	17 49 20	Japan. MLH=6.0 Praha. Dc=82.9°.
	Lm	18 31.5	LmH: 13.5s 4.7 /u, LmV: 13s 5.8 /u.
22	Lm	04 16.3	Southwestern Russia. MLH=4.7 Praha. Dc=21.8°. LmH: 16.5s 2.5 /u, LmV: 15s 2.1 /u.
22	eiP	23 38 46.7	D. Kodiak Island region. Dc=72.5°.
	e	38 53	
	e	39 07	
	ePP	41 34	
23	e	00 23 33	Northern Celebes. Dc=101.9°. LmV: 17s 11.4 /u.
	e	26 23	
	Lm	01 14.5	
23	eP	01 08 35	Greenland Sea. Dc=23.8°.
23	e	09 14 51	Northern Celebes. Dc=101.7°.
	e	15 05	
	Lm	10 03	
27	eP	19 54 04	Turkey. Dc=23.2°.
	eS	58 13	
	e	59 20	
	Lm	20 05.6	
28	ePKP	17 16 06	Tonga Islands. Dc=148.6°.
28	ePKP	17 33 16	Tonga Islands. Dc=148.8°.
	e	33 32	
	Lm	18 28	
30	e	09 32 46	Explosion of 6.8 tons. Dc=12 km.
	e	32 48	
30	Lm	14 10	Kirgiz SSR. MLH=5.2 Praha. Dc=40.3°. LmH: 11.5s 1.8 /u, LmV: 12s 1.7 /u.

Date	Phase	h m s	Remarks
1	epP	16 36 44	Peru-Brazil border region. Dc=95.5°.
	e(SKS)	46 32	
2	Lm	11 06	New Britain. MLH=5.7 Praha. Dc=122.3°. LmH: 20s 1.9 /u, LmV: 20s 3.3 /u.
2	ePKP	11 12 10	Fiji Islands. Dc=146.6°.
2	e	11 30 18	Explosion of 19 tons. Dc=63 km.
	e	30 22	
	e	30 33	
2	eS	23 21 49	Turkey. MLH=4.5 Praha. Dc=23.2°. LmH: 11s 1.1 /u,
	Lm		LmV: 11s 1.0 /u.
4	e	06 40 08	Greece. MLH=5.1 Praha. Dc=12.1°. LmH: 9s 9.5 /u,
	e	42 10	LmV: 9s 14.6 /u.
	Lm	45.3	
4	ePKP	11 05 25	Tonga Islands. Dc=146.9°.
4	eP	21 52 40	Turkey. MLH=5.0 Praha. D=16°, Dc=15.5°.
	eS	55 40	LmH: 10s 5.2 /u, LmV: 11s 2.5 /u.
	Lm	58.8	
5	eP	14 33 43	Taiwan region. MLH=6.3 Praha. D=85°. Dc=82.5°.
	eiPcP	33 45.5	LmH: 16s 11.8 /u, LmV: 11s 0.9 /u.
	eS	43 57	
	e	44 22	
	e(PS)	44 31	
	eSSS	53 15	
	Lm	15 08	
5	eP	15 58 10	Iceland region. MLH=4.8 Praha. Dc=25.8°.
	Lm	16 10	LmH: 11s 1.5 /u, LmV: 12s 3.1 /u.
6	eP	02 47 54	Malawi. Dc=67.7°.
7	e	09 00 42	
7	e	12 58 32	
7	eP	13 11 59	Turkey. MLH=5.2 Praha. D=15.3°, Dc=15.5°.
	e	12 02	LmH: 10s 10 /u, LmV: 10s 8.2 /u.
	ePP	12 07	
	e	12 38	
	eS	15 08	
	e	15 11	
	Lm	18.1	
9	eP	00 47 03	Mediterranean Sea. MLH=5.7 Praha. D=18°,
	e	47 05	Dc=17.8°. LmH: 10s 18.7 /u, LmV: 10s 18.9 /u.
	ePP	47 25	
	ePPP	47 46	
	eS	50 28	
	e	50 35	
	eSS	50 42	
	ePcP	51 40	
	Lm	55	

Date	Phase	h m s	Remarks
9	eP	03 55 11	Turkey. Dc=17.5°.
	e	55 44	
	e	56 38	
10	ePP	21 15 07	USSR-Mongolia border region. MLH=5.5 Praha.
	e	29 12	Dc=50.3°. LmH: 12s 2.5/μ, LmV: 12s 3.9/μ.
	e	31 28	
	eL	32 45	
	Lm	36	
11	eP	14 29 25	Kurile Islands region. MLH=6.4 Praha. D=77°,
	ePcP	29 37	Dc=76.2°. LmH: 17s 15/μ, LmV: 17s 21/μ.
	ePP	32 20	
	eS	39 06	
	Lm	15 07	
11	eP	14 38 30	Kurile Islands region. Dc=76.2°.
	ePcP	38 38	
11	e	15 10 31	Mediterranean Sea. Dc=17.9°.
11	eP	21 51 24	Kurile Islands region. MLH=6.0 Praha. Dc=76.3°.
	ePcP	51 38	LmH: 18s 6.9/μ.
	Lm	22 23	
13	e	13 19 31	Mediterranean Sea. MLH=4.2 Praha. Dc=17.8°.
	Lm	25	LmH: 9.5s 0.6/μ, LmV: 8s 0.9/μ.
14	eP	20 39 04	Venezuela. Dc=74.1°.
	e	40 30	
15	eP	14 58 05	Aleutian Islands. MLH=6.0 Praha. Dc=78.3.
	e	58 19	LmH: 21s 9.0/μ, LmV: 19s 6.3/μ.
	e	59 10	
	ePP	15 00 53	
	eS	08 11	
	Lm	35	
17	eP	07 12 32	Uganda. MLH=4.9 Praha. Dc=50.8°. LmH: 11.5s
	e	12 37	0.7/μ, LmV: 13s 1.5/μ.
	ePP	14 43	
	e	23 57	
	Lm	40	
17	e	12 40 43	
18	Lm	08 27.5	California. MLH=5.8 Praha. Dc=90.3°. LmH=13.5s 2.7/μ, LmV: 14s 3.4/μ.
19	iP	07 18 15.0	C. Unimak Island region. MLH=5.9 Praha.
	e	18 36	Dc=76.9°. LmH: 20s 6.7/μ, LmV: 20s 7.3/μ.
	e	28 17	
	ePS	28 39	
	Lm	08 00.5	
19	eP	14 08 55	Nevada. Dc=82.9°.

Date	Phase	h m s	Remarks
20	eSg	00 59 30	France. Dc=12.1°.
20	eSg	07 39 36	Silesia. Dc=2.9°.
20	ePKP	09 33 06	Marianos Islands. MLH=6.0 Praha. Dc=103.5°.
	Lm	10 22.5	LmH: 15s 3.4/μ, LmV: 15s 3.5/μ.
20	eP	18 15 15	Philippine Islands region. Dc=86.1°.
22	Lm	07 47.5	Turkey. MLH=4.5 Praha. Dc=14.8°. LmH: 10s 2.0/μ, LmV: 9s 2.4/μ.
23	Lm	01 49.7	North Atlantic Ocean. Dc=30.0°.
23	Lm	09 36	Japan. Dc=86.7°.
23	Lm	12 48	
24	eP	09 42 41	Greece. MLH=4.7 Praha. Dc=13.7°. LmH: 9s 3.1/μ,
	e	43 28	LmV: 9s 4.0/μ.
	e	46 12	
	Lm	48.5	
24	Lm	11 18	Greece. Dc=13.7°.
24	Lm	17 54.5	Crete. Dc=16.8°.
25	ePn	09 09 26	Albania. Dc=10.4°.
	eSn	11 30	
	e	12 18	
25	ePKP	12 26 42	Loyalty Islands region. Dc=145.6°.
	e	27 04	
25	ePKIKP	13 40 51	C. Macquarie Island region. MLH=5.9 Praha.
	e	41 05	Dc=158.5°. LmH: 17s 2.3/μ, LmV: 18s 3.0/μ.
	ePKP2	41 26	
	ePP	45 07	
	eSKSP	55.5	
	Lm	15 01	
26	ePn	08 12 03	Austria. Dc=3.8°.
26	e	12 01 32	Explosion of 10.3 tons. Dc=63 km
	e	01 42	
26	e	12 41 56	
26	Lm	13 53	LmH: 11s 1.4/μ.
26	PKP1	18 49 31	Tonga Islands region. Dc=150.0°.
	PKP2	49 39	
26	Lm	23 53	Ryukyu Islands. MLH=5.3 Praha. Dc=83.7°.
			LmH: 12.5s 0.8/μ, LmV: 13s 1.2/μ.

Date	Phase	h m s	Remarks
27	Lm	09 26	LmH: 14.5s 2.6 μ, LmV: 14s 0.7 μ.
28	eP	00 16 17	Taiwan region. MLH=5.7 Praha. D=85°, Dc=82.5°.
	e	17 05	LmH: 14s 2.5 μ, LmV: 12s 0.6 μ.
	ePP	19 36	
	e(PPP)	21 17	
	eS	26 32	
	eScS	26 49	
	ePS	27 31	
	ePPS	27 59	
	Lm	51	
28	Lm	06 09	Japan. MLH=5.4 Praha. Dc=80.5°. LmH: 12.5s 1.2 μ.
29	ePKP1	14 03 25	Tonga Islands region. Dc=149.8°.
	e	03 33	
	epPKP1	05 28	
31	e	12 40 29	

Date	Phase	h m s	Remarks
1	ePKIKP	12 07 22	Tonga Islands region. MLH=5.6 Praha. Dc=152.4°.
	e	07 32	LmH: 17s 1.1 μ, LmV: 17s 1.3 μ.
	ePKP2	07 45	
	ePP	11 07	
	Lm	13 25	
2	eiP	03 39 49.9	D. Aleutian Islands. MLH=5.3 Praha. Dc=78.1°.
	e	40 05	LmH: 16s 1.2 μ, LmV: 15s 0.9 μ.
	e	41 41	
	ePP	42 41	
	eS	49 43	
	Lm	04 19	
5	Lm	00 37	Kurile Islands. MLH=5.5 Praha. Dc=77.3°.
			LmH: 13s 1.6 μ.
6	iP	07 53 53.3	W. Afghanistan-USSR border region. Dc=42.5°.
	epP	54 38	
	esP	55 02	
	ePPP	56 19	
	esPP	56 38	
	esS	08 01 11	
	eSS	03 16	
	eSSS	04 15	
	Lm	07	
7	Lm	01 58	Peru. Dc=101.5°.
7	e	14 17 27	Caroline Islands. MLH=7.0 Praha. Dc=102.4°.
	ePP	17 47	LmH: 21s 56 μ.
	Lm	15 02	
8	eP	20 08 06	Aleutian Islands. Dc=75.3°.
	e	08 13	
	e	08 31	
	Lm	43	
9	eP	00 24 05	Nicobar Islands region. Dc=77.4°.
	epP	24 17	
	esP	24 27	
9	e	14 20 15	Switzerland. Dc=6.1°.
9	eP	15 51 15	Kurile Islands. Dc=77.6°.
	epP	51 39	
9	Lm	23 13	Japan. Dc=87.8°.
10	e	09 16 59	Romania. Dc=8.8
10	Lm	22 40	North Atlantic ridge. Dc=43.2°.
10	Lm	23 15	Mongolia. Dc=54.6°.
11	eP	03 13 21	Taiwan region. MLH=5.7 Praha. Dc=81.5°.
	Lm	47.5	LmH: 13s 2.0 μ

Date	Phase	h m s	Remarks
11	e	10 25 24	Greece. MLH=4.7 Praha. Dc=12.2°. LmH: 9.5s 4.0 μ, LmV: 9s 4.6 μ.
	Lm	30	
11	e	12 08 24	Greece. Dc=13.5°.
13	ePKP1	07 52 52	New Hebrides Islands region. Dc=147.0°.
	e	53 14	
	Lm	09 05	
13	iPKP	18 27 30.5	C. Santa Cruz Islands. Dc=136.1°.
	epPKP	28 31	
	ePP	30 14	
	eSKP	30 43	
	ePKS	31 04	
	esPKS	32 29	
15	ePKP	01 18 58	Solomon Islands. MLH=7.9 Praha. Dc=131.8°. LmH: 19s 280 μ.
	e	19 14	
	ePP	21 19	
	ePKS	22 20	
	ePPP	23 59	
	Lm	02 18	
16	eP	17 10 28	Jan Mayen. Dc=23.0°.
	Lm	20	
18	e	07 59 49	Explosion of 9.5 tons. Dc=75 km.
18	e	04 14 13	Yugoslavia. Dc=3.9°.
19	Lm	18 04.5	Turkey. MLH=5.1 Praha. Dc=14.6°. LmH:11s 8.3 μ, LmV: 12s 1.7 μ.
20	ePKP	09 11 43	Samoa Islands. Dc=145.7°.
21	ePP	01 05 10	Santa Cruz Islands. Dc=134.3°.
	Lm	02 01	
21	eP	23 18 09	Kurile Islands. Dc=75.4°.
	Lm	57	
22	e	11 49 59	Alaska. Dc=68.1°.
22	eP	20 42 34	Banda Sea. Dc=108.5°.
	epP	44 32	
	ePP	47 19	
	epPP	48 49	
	e	48 59	
	eSKS	52 28	
	e	55 48	
22	e(P)	20 57 52	
	e	58 08	
23	eP	05 13 01	Eastern Sea of Japan. Dc=75.2°.

Date	Phase	h m s	Remarks
24	ePKIKP	08 37 24	South of Fiji Islands. Dc=155.0°.
	ePKP2	37 48	
24	e(Sg)	15 10 46	Italy. Dc=6.9°.
24	e	22 41 27	Greece. Dc=12.3°.
25	eP	01 58 57	Japan. MLH=5.6 Praha. Dc=88.2°. LmH: 14s 1.6 μ, LmV: 16s 2.1 μ.
	Lm	02 43	
27	e	05 19 31	Italy. Dc=6.9°.
27	e	08 58 42	Tonga Islands region. Dc=151.7°.
27	eiP	10 50 25.5	C. Nepal-India border region. MPV=6,6, MLH=6.4 Praha. Dc=53.1°. PV: 2s 1.2 μ, LmH: 13s 23 μ.
	epP	50 34	
	e	52 34	
	eS	58 01	
	Lm	11 16	
27	e(P)	10 59 06	Nepal-India border region. Dc=53.1°.
27	eiP	11 08 34.4	C. Nepal-India border region. MLH=6.7 Praha. Dc=53.1°. LmH: 11s 37 μ, LmV: 12s 22 μ.
	e	09 12	
	ePP	10 40	
	Lm	33	
27	eP	14 05 09	Nepal-India border region. Dc=53.1°.
28	e	04 39 04	Central California. MLH=6.3 Praha. Dc=85.7°. LmH: 14s 9.3 μ, LmV: 15s 8 μ.
	eS	49 36	
	Lm	05 22	
30	Lm	13 30	Philippine Islands. MLH=5.5 Praha. Dc=96.5°. LmH: 14.5s 1.2 μ, LmV: 14s 0.9 μ.
30	eP	15 57 43	Taiwan region. Dc=82.3°.
30	e	19 25 40	Albania. Dc=9.9°.
30	eP	22 27 26	Nevada. Dc=82.7°.

Seismic observations of the station KAŠPERSKÉ HORY

January - June 1966

J.Nykles, B.Závorka

Instrument:

Vertical electrodynamic seismograph SVKM - 2
(short-periodic system).

Station coordinates: φ = 49° 07.8′ N, λ = 13° 34.8′ E,
Elevation: h = 700 m,
Lithologic foundation: gneiss.

Instrument	Compt.	T_1(s)	T_2(s)	D_1	D_2	σ^2	Tm	Vm
SVKM-2	Z	1.4	0.7	0.73	2.0	0.4	1.0	100 000

Date	Phase	h m s	Remarks
1	e	10 17 05.5	
	eiSg	17 39.5	
1	e	12 43 31	D. Entrecasteaux Isl. 9.7°S 154.7°E, H=12 24 30.9,
	eiPKIKP	43 38	h=33 km(ISC), m=5.1 ISC, Dc=129.1°.
1	eiP	19 35 47	Mid-Atlantic Ridge 0.6°N 25.5°W, H=19 25 51.4, h=
	ei	36 09	33 km(ISC), m=4.8 ISC, Dc=56.8°.
2	eiPKP	03 53 23.5	Dc=146.4°.
2	eiP	04 16 43	D. TPV=1.0sec, A=26.7mu, mPV=5.3, Dc=86.0°.
	ei	20 06.5	
2	eP	05 04 06	Unimak Isl. 54.2°N 164.4°W, H=04 52 16.5, n=45km
			(ISC), m=5.i ISC, Dc=77. °.
2	eiPKIKP	15 06 49.2	Dc=147.4°.
2	eiP	23 15 25.7	Dc=13.4°.
	ei	15 40.5	
	ei	17 27.2	
3	eiPKIKP	13 52 16.5	Dc=149.9°.
	iPKP2	52 22	
	i	52 30	
	eipPKIKP	54 30.5	
3	iPKIKP	16 03 49.6	C. Dc=144.1°.
	eiPP	07 08	
3	eiP	18 28 37.8	C. TPV=1.0 s A=47.0 mu, Dc=86.2°, mPV=5.5.
	eipP	29 03.5	
4	ei	07 55 54	
4	eiP	07 58 43.5	C. Dc=75.6°.
4	ei	11 39 46	
	eiSg	39 47.8	
4	e	12 39 41	D=1.1°.
	eiSg	39 55.5	
5	e	01 41 26	
5	ei	10 33 07	
5	eSg	13 00 28	
	Lm	00 31	
5	eiP	17 33 05	Dc=74.8°.
	iPcP	33 17	
	i	33 33	

Date	Phase	h m s	Remarks
5	eiP	18 23 34	Dc=98.1°.
6	e eiSg	10 00 08 00 33	
6	ePg eiSg	12 00 27 00 47	D=1.5°.
6	e eiSg	12 39 16 39 39.8	
6	eSg Lm	15 30 33 30 42	
7	eiP ei	07 56 58.4 57 10.5	C. TPV=1.0 s A=21.5 mu, Dc=74.6°, mPV=5.1.
7	ePg eiSg	12 00 32 00 49.3	Explosion of 15.2 Tons, Dc=142 km.
7	eiPg eiSg	13 05 15 05 40.3	D=1.9°.
7	ePg eiSg	13 37 42 38 10.5	D=2.2°.
7	ePg eiSg	13 40 09.5 40 36	D=2°.
7	ePg eiSg	14 53 04 53 22	D=1.3°.
7	eiPKIKP	15 16 39	Dc=124.2°.
8	e ei eiSg	06 14 59 15 07.8 15 38.8	
8	eSg	10 25 31	
8	e eiSg	10 43 34 43 43	
8	ePg eiSg	11 27 16 27 36.5	D=1.5°.
8	e eiSg	13 00 16 00 49	
8	eiP	22 51 35.5	C. TPV=1.0 s A=32.0 mu, mPV=5.3, Dc=81.2°.
9	eP eipP	09 22 42 23 17	11.5°N 62.3°W, H=09 11 30.9, h=163 km(ISC), Dc=72.2°.

Date	Phase	h m s	Remarks
9	e eiSg	10 19 00 19 08	
9	ePg eiSg	11 53 53 54 16	D=1.7°.
9	e eiSg	21 33 40 33 56.5	
10	eiP eipP	01 32 00.8 32 38	C. TPV=1.2 s A=25.4 mu, Dc=90.5°, mPV=5.2.
10	e	05 19 54	Yugoslavia 43.5°N 18.3°E, H=05 18(SAR), Dc=6.5°.
10	ePg eiSg	12 40 52 41 06.5	D=1.1°.
10	ePg eiSg	12 54 29 54 55.5	D=2°.
10	e eiSg	13 33 21 33 27	
10	eiPg eiSg	13 59 55.8 59 28.3	D=2.4°.
11	eiP	14 18 44.5	C. TPV=1 s 16 mu, Dc=83.4°, mPV=5.2.
11	eP	14 23 33.5	Japan 34.3°N 136.9°E, H=14 11 13, h=61 km(ISC), M=4.7 ISC, Dc=82.8°.
11	eiP ei	14 28 58 29 04	C. Japan TPV=1.6 s A=75.0 mu, mPV=5.7, Dc=83.5°, mPV=5.7.
11	e eiSn	14 52 24 53 27.5	France 44.5°N 6.7°E, H=14 50 36(BCIS), Dc=6.6°.
11	ePg eiSg	19 24 35 24 52.3	D=1.3°.
11	eSg	23 10 04	Poland 50.3°N 18.8°E, H=23 08 06.7 WAR, M=2.6, Dc=3.6°.
12	e eiSg	13 04 49 05 27	
12	eiPg eiSg	13 06 09 06 46	D=2.9°.
12	eiPg eiSg	17 32 14.6 32 30.5	D=1.2°.
13	eiP	01 47 51.2	Turkey 38.3°N 28.5°E, H=01 44 14, h=22 km(ISC), M=4.3 ISC, Dc=15.2°.

Date	Phase	h m s	Remarks
12	eiPg eiSg	17 32 14.6 32 30.5	D=1.2°.
13	eiP	01 47 51.2	Turkey 38.3°N 28.5°E, H=01 44 14, h=22 km(ISC), M=4.3 ISC, Dc=15.2°.
13	eP	03 49 12.5	S.Persia 27.6°N 57.2°E, H=03 41 47, h=84 km(ISC), Dc=39.7°.
13	eiPg eiSg	08 34 43 35 01	D=1.4°.
13	eiPg eiSg Lm	10 30 34 30 44.5 30 51	D=90 km.
13	iP ei eiPP	10 53 04.4 53 43 55 55	C. TPV=1.8 s A=447.3 mu, Dc=76.7°, mPV=6.3.
13	e eiSg	12 45 05 45 49	
13	ePg eiSg	12 49 11.5 49 33.5	D=1.6°.
13	e eiSg	18 46 40 46 58	D=1.4°.
14	ePKIKP	00 02 17	Dc=145.8°.
14	eP	02 17 32	Dc=14.2°.
14	ePg eiSg	09 34 20.5 34 34.2	D=1.1°.
14	e eiSg	10 55 36 55 38	
14	e eiSg	12 59 34 59 58	
14	e eiSg	13 01 15 01 36	
14	ePg eiSg	15 10 55 11 06	D=93 km.
14	eP ei ei	17 49 56 50 07.5 51 38	Sicily 39.0°N 13.1°E, H=17 47 33(ROM), Dc=10.1°.
14	eiP	18 43 34	TPV=1 s A=13.0 mu, Dc=17.5°, mPV=4.0.
14	ePKIKP	21 00 41	New Hebrides 17.4°S 166.7°E, H=20 41 04.3, h=10 km (ISC), Dc=141.6°.

Date	Phase	h m s	Remarks
14	eiP	22 07 58	Fox Islands 51.2°N 169.0°W, H=21 55 49.5, h=33 km (ISC), m=4.6 ISC, Dc=80.0°.
15	e eiSg	10 35 34 35 48	
15	eiPKIKP	11 16 28	D. Dc=150.5°.
15	eiP	12 11 11.7	D. TPV=1 s A=11.0 mu, Dc=70.3°, mPV=4.9.
15	eiPn eiPg eiSg	13 00 19.2 00 23.4 00 54	D=2.3°.
15	eP ei	18 11 10.5 11 15	Dc=14.2°.
16	e eiSg	03 31 26 31 40.5	
16	e eiSn ei eiSg	06 53 13 54 11.5 54 46 54 54	Dc=6.2°.
16	eiP	07 19 47	Dc=76.9°.
16	iP i	09 23 41.2 23 48	C. TPV=1 s A=91.4 mu, Dc=76.8°, mPV=5.9
16	eiPn ei ei eiSg	12 34 23.2 34 31 35 38 36 13.5	Belgium. Dc=6.2°.
16	eiP i ei	18 56 13.8 56 16.0 59 21	Mediterranean Sea. Dc=18.5°.
16	eiP	19 56 15	Komandorsky Island, TPV=1 s A=27.0 mu, Dc=73.7°, mPV=5.2.
16	eiP ei	20 19 15.5 19 44	Mediterranean Sea, Dc=16.2°.
16	ePKIKP	22 04 50	Fiji Islands, Dc=147.5°.
16	eiP	23 54 13.5	Japan, Dc=82.4°.
17	eiPg eiSg	08 00 37 00 54.4	Explosion of 7.3 Tons, Dc=140 km.
17	eiP ei	08 42 14 42 44	Albania, Dc=10.3°.

Date	Phase	h m s	Remarks
17	eiSg	12 39 44	
17	e eiSg	12 46 22 46 29	
17	eP ei	17 45 44 45 51	Kurile Isl. 44.4°N 148.8°E, H=17 33 50.6, h=40 km (ISC), m=4.0 ISC, Dc=79.0°.
17	eiPKP iPKP2 i ei	18 08 44 08 50.0 08 58.5 11 04	Tonga Islands, Dc=150.2°.
17	eiP	19 08 17.5	Aleutian Islands, Dc=79.0°.
17	eP ei	20 08 04 10 09.8	Greece 38.1°N 22.0°E, H=20 04 58.6, h=62 km(ISC), m=4.4 ISC, Dc=12.6°.
18	eiP	01 25 43	Ryukyu Islands, Dc=83.8°.
18	ei	05 59 06	
18	eiPKIKP eisPKIKP	06 46 17.3 48 21	Fiji Islands, Dc=148.4°.
18	ei eiSg	10 50 09.7 50 43	Poland, Dc=3.7°.
18	e eiSg	11 16 48 17 04.5	
18	eiPg eiSg	13 32 31 32 39.5	Dc=72 km.
18	ePg eiSg	13 42 50 43 13	D=1.7°.
18	eiP	18 47 29	Dc=83.2°.
18	eiP	20 22 43	Rumania. Dc=9.5°.
18	eiP ei	21 23 46.5 24 05	C. Crete, TPV=1.1 s A=50.0 mu, mPV=4.6, Dc=15.8°.
19	eiPn eiPg eiSg	07 01 56 02 24 03 42	France, Dc=5.7°.
19	eiPKP	14 04 47	Fiji Islands, Dc=150.1°.
20	eP ei ei	00 41 59.7 42 09 44 36	Aegean Sea 39.2°N 24.4°E, H=00 39 00.6, h=12 km (ISC), m=4.4 ISC, Dc=12.6°.

Date	Phase	h m s	Remarks
20	eiP ei	01 56 59 57 44	Japan, TPV=1.1 s A=35.4 mu, mPV=5.2, Dc=80.4°.
20	eiP	08 57 33	
20	eiSg Lm	11 11 29 11 32	
20	iP i	14 57 55.8 58 04.8	C. Aleutian Islands, TPV=1 A=59 mu, mPV=5.7, Dc=76.6°.
20	eiPKIKP	15 21 32.4	Samoa Islands, Dc=145.9°.
20	eiP	16 16 24.7	Kurile Islands, Dc=79.0°.
20	eiP	16 44 24	Aleutian Islands, Dc=78.8°.
20	e eiSg	20 02 08 02 25	
20	eiP	23 49 26.8	Taiwan, Dc=83.9°.
21	ePg eiSg	00 59 12 59 27.5	D=1.1°.
21	eiP	09 55 29.2	Japan, Dc=79.1°.
21	e eiSg	11 01 07 01 26	
21	e eiSg	12 36 54 37 11	
21	ePg eiSg	12 57 08 57 32	D=1.8°.
21	e eiSg	12 58 27 58 43.2	
21	e eiSg Lm	12 59 22.8 59 43.6 59 53	
21	eiPg iSg Lm	13 02 06.6 02 15 02 21	Explosion of 11.7 Tons, D=76 km.
21	eiP	18 33 09.5	Colombie, TPV=1.2 s A=16 mu, mPV=5.1, Dc=86.6°.
21	eSg Lm	20 05 35 05 41	
22	eP ei Lm	00 27 35 27 37.6 33 09	Turkey, Dc=16.5°.

Date	Phase	h m s	Remarks
22	eiPKP2	04 15 22	Kermadec Islands, Dc=159.5°.
22	eiP	05 04 26.5	Greece, Dc=11.6°.
22	eiPg eiSg	07 45 21.5 45 49.5	D=2.2°.
22	eiP	07 49 25.7	Mexico, Dc=88.1°.
22	eiPg eiSg	10 39 30 39 57	D=2.1°.
22	eiPKIKP iPKP ei	11 19 39.8 19 43.8 20 39.2	Fiji Islands, Dc=147.4°.
22	eiPg eiSg	13 31 00.4 31 32.8	D=2.5°.
22	iP i	14 38 46.4 39 29	C. Alaska, TPV=1.6 s A=140 mu, mPV=5.7, Dc=74.7°.
22	iPKP2	19 56 24.5	C. Tonga Islands, Dc=151.3°.
22	e	23 52 47	
23	eP	01 10 19	Mexico 16.2°N 94.8°W, H=00 57 24, h=57 km(ISC), m=4.4 ISC, Dc=89.4°.
23	eiPn i i	01 32 19.5 32 30 33 00.8	Italy, Dc=3.4°.
23	e eiSg	14 49 50 50 34.8	Poland, Dc=3.7°.
23	eiP	23 21 37.5	Japan, Dc=83.3°.
24	eiP eiPP	02 23 25.8 25 11.8	Afghanistan, TPV=1.0 s A=8 mu, mPV=4.4, Dc=43.0°.
24	eP	06 12 04	California 41.4°N 127.6°W, H=05 59 40, h=22 km (ISC), m=4.4 ISC, Dc=83.5°.
24	eiP eiPP ei	07 31 34 33 05.5 34 42	C. West Pakistan, TPV=1.2 s A=25.4 mu, mPV=5.1, Dc=46.2°.
24	eSg Lm	12 34 20.5 34 26	
24	e eiSg	12 49 18.6 49 44	
24	e eiSg Lm	15 25 28.5 25 39 25 46	

Date	Phase	h m s	Remarks
24	eP ei	15 41 14.8 41 35	West Pakistan, Dc=46.2°.
24	e eiSg	21 19 47 20 31.4	
25	eiP	06 01 12.4	
26	e eiSg	12 00 07 00 33.4	
26	e eiSg Lm	12 38 39 38 54 38 58	
26	eiPKIKP	13 23 26	Tonga Islands, Dc=145.7°.
26	eiP	13 33 15	Greece 38.9°N 21.5°E, H=13 30 28, h=46 km(ISC), m=4.6 ISC, Dc=11.6°.
26	eiPKIKP	15 49 48.4	New Hebrides, Dc=139.1°.
26	ePKP2	19 21 07.5	Tonga Islands, Dc=150.0°.
26	e eiSg	21 24 20 24 27.8	
26	e eiSg	22 15 05 15 49	
27	eiPKP	02 20 16	Fiji Islands, Dc=147.5°.
27	e eiSg	07 00 16.4 00 38.5	
27	eP	10 31 51	Unimak Island 53.7°N 163.8°W, H=10 19 56.3, h= 33 km(ISC), m=4.1 ISC, Dc=77.5°.
27	eiP	12 12 31	Japan, Dc=80.1°.
27	ePg eiSg	13 00 30 00 48	D=1.4°.
27	iP ei	19 51 08.2 51 25,8	D. Aleutian Islands, TPV=1 s A=21.5 mu, mPV=5.1, Dc=79.1°.
28	eiPKIKP i eipPKIKP	04 55 22.6 55 23.8 57 31.5	Fiji Islands, Dc=145.8°.
28	eiPKIKP eiPP	06 01 45.8 04 54	New Hebrides, Dc=142.0°.
28	ei	08 22 58.8	

Date	Phase	h m s	Remarks
28	eiP	09 00 00.3	C. Tadzhik, TPV=1.1 s A=32.0 mu, mPV=5.0, Dc=42.7°.
	ei	01 40.8	
28	eiPKP	09 46 11.7	Fiji Islands, Dc=147.4°.
	ei	46 15	
28	e	11 06 53	
	eiSg	07 14	
	Lm	07 22	
28	e	12 00 26	
	eiSg	00 58.8	
	Lm	01 14	
28	ePg	12 50 28	D=1°.
	eiSg	50 41.3	
	Lm	50 49	
28	ePn	17 54 00	Switzerland, Dc=4.7°.
	eiPg	54 22,5	
	eiSg	55 25.8	
28	eP	19 19 14.8	Aleutian Islands 51.8°N 177.0°W, H=19 07 16.3, h=63 km(ISC), m=5.2 ISC, Dc=79.0°.
28	iP	22 49 42.5	D. Kamchatka, TPV=1.2 s A=63.0 mu, mPV=5.5, Dc=74.9°.
	i	49 49.7	
	ei	50 33.7	
28	eiP	23 59 10.2	Unimak Island 53.9°N 163.0°W, H=23 47 31, h=168 km (ISC), m=3.9 ISC, Dc=77.3°.
29	e	05 44 35	
	ei	45 15.8	
29	eiP	08 04 10	Kurile Island, Dc=78.9°.
	eiPcP	04 22	
29	eP	14 53 19	Mexico - Quatemala, Dc=87.4°.
29	eP	16 21 26	California, Dc=83.4°.
30	eP	03 04 46	Greece 38.9°N 21.8°E, H=03 02 00.1, h=87 km(ISC), m=4.0 ISC, Dc=11.8°.
30	eP	06 49 48	Greece, Dc=11.8°.
	ei	49 56.4	
30	eiPKIKP	11 24 42	Loyalty Islands, Dc=147.3°.
30	eiPg	11 59 12	D=2.2°.
	eiSg	59 40.2	
30	eiPg	21 20 27	D=2.1°.
	ei	20 33	
	eiSg	20 53.8	

Date	Phase	h m s	Remarks
31	eiP	02 45 58	China, Dc=67.0°.
31	eiP	04 33 40.6	Greece, Dc=11.7°.
31	eiPKIKP	06 27 42.5	Loyalty Islands, Dc=147.1°.
31	eiPKIKP	08 53 22	Loyalty Islands, Dc=147.2°.
	ei	53 32.8	
31	eP	09 57 52	Greece 38.9°N 21.5°E, H=09 54 58, h=6 km(ISC), m=4.6 ISC, Dc=11.7°.
31	ePg	11 00 56	D=1.3°.
	eiSg	01 13.5	
31	eSg	13 08 11	
	Lm	08 18	
31	eiP	14 15 09.5	Argentina, Dc=101.1°.
31	eiP	19 32 17.5	Aleutian Islands, Dc=79.7°.
	ei	32 38.4	

Date	Phase	h m s	Remarks
1	eP	06 05 27	Central Kazakh, Dc=36.9°.
1	e	07 09 02	
	eiSg	09 18.5	
1	eiP	07 13 36	Iran - Iraq, Dc=27.8°.
1	eiPg	07 18 13	D=85 km.
	eiSg	18 23	
1	eiPg	12 30 44	D=64 km.
	eiSg	30 51.5	
	Lm	30 53	
1	eiPg	15 15 39	D=1.5°.
	eiSg	15 58	
	Lm	16 04	
1	eiP	16 11 42	Kurile Islands, TPV=0.8 s A=10.8 mu, mPV=4.8, Dc=78.6°.
2	eiPn	02 26 09	Italy, Dc=2.9°.
	eiPg	26 16.2	
	eiSg	26 54.5	
2	eiPn	02 32 58.2	Aftershock Italy, Dc=2.9°.
	eiPg	33 05.4	
	eiSn	33 43.2	
2	eiPKP	05 53 46.8	Tonga Islands, Dc=148.2°.
	i	54 02.0	
	ei	54 54	
2	eP	09 28 33.5	West Pakistan, Dc=46.0°.
	ei	29 32	
2	e	15 39 17.4	
	eiSg	39 47	
2	eiPKIKP	17 29 55.2	Fiji Islands, Dc=151.3°.
	eiPKP	30 01	
2	e	22 27 32	
	ei	28 16.5	
3	ePKHKP	02 30 53	Fiji Islands, Dc=150.3°.
	eiPKP2	31 01.5	
3	eP	06 01 50	Northern Celebes, Dc=102.9°.
	ei	04 40	
	eiPP	06 10	
3	e	12 02 46	
	eiSg	03 03	

Date	Phase	h m s	Remarks
3	iP	12 11 20.0	Philippine Islands, TPV=1s A=26.8 mu, mPV=5.3, Dc=87.8°.
3	eiP	13 25 56	Sicily, Dc=10.7°.
	ei	26 05.8	
3	eiP	17 23 42.8	Taiwan, Dc=83.2°.
3	eiP	17 33 30.6	Taiwan, Dc=83.0°.
	ei	33 40.7	
3	eSg	17 42 08	Switzerland 47.8°N 8.3°E, H=17 40 04(BCIS), Dc=3.8°.
	ei	42 10	
3	eP	18 10 08.7	Taiwan, Dc=83.2°.
4	ei	02 59 30	
4	iPKIKP	04 22 22.0	D. Tonga Islands, Dc=145.9°.
	eipPKIKP	22 39.5	
4	eiPKIKP	05 24 08.4	Tonga Islands, Dc=151.7°.
	eiPKHKP	24 14.2	
4	eiP	08 41 53.5	Mediterranean Sea, Dc=16.6°.
	i	41 57.5	
4	eiPKP2	10 10 51.5	Tonga Islands, Dc=151.5°.
4	eiPKP	10 58 15	New Hebrides, Dc=140.8°.
	ei	58 35	
	eisPKP	59 33.4	
	iSKP	11 01 41.6	
4	eiP	11 10 02	
4	e	14 03 10	
	eiSg	03 16.8	
4	e	15 21 14	
	eiSg	21 18	
	Lm	21 23	
4	eiPKP2	15 56 21.6	Tonga Islands, Dc=151.8°.
	ei	56 54	
4	eP	18 09 27.5	North Islands, Dc=57.4°.
5	iP	02 04 31.0	C. Greece, Dc=11.6°.
	eiS	06 44	
	i	08 23	
5	eiP	03 00 42	Aftershock Greece, Dc=11.7°.
	i	01 09.8	

Date	Phase	h m s	Remarks
5	ePKP	07 28 17.5	Loyalty Islands 21.4°S 170.4°E, H=07 08 53.0, h= 166 km(ISC), m=5.1 ISC, Dc=146.8°.
5	e	14 29 06	
	ei	29 42	
5	iP	14 36 20	C. Kamchatka, Dc=74.4°, TPV=1.0 s A=24.0 mu, mPV= 5.1.
5	eiP	15 23 45	D. China, mPV=5.2, Dc=70.4°.
5	iP	16 27 38.2	C. Kurile Islands, Dc=75.9°.
	i	28 39	
6	eiP	09 24 37	China, Dc=70.4°.
6	e	11 29 46	
6	eP	13 27 24	Greece 39.0°N 21.7°E, H=13 24 38.1, h=36 km(ISC), Dc=11.7°.
6	e	17 58 59.7	
	eiSg	59 15.7	
6	eP	21 35 56	Kurile Islands, Dc=79.0°.
6	iP	23 39 13.4	C. Alaska, TPV=1.1 s A=53 mu, mPV=5.4, Dc=70.3°.
	eipP	39 36.5	
7	eiP	04 34 36	C. West Pakistan, TPV=2.0 s 69 mu, mPV=5.3, Dc= 46.2°.
	i	34 40.2	
	eiPP	37 06.4	
7	eiP	05 30 08	West Pakistan, Dc=46.2°.
	ei	30 12.8	
7	eiP	05 38 40	West Pakistan, Dc=46.3°.
7	eiPn	09 30 54	C. Yugoslavia, Dc=4.7°.
	iSn	31 47.2	
	eiSg	32 24	
7	eiSg	09 50 49	
7	eiPg	12 04 47.8	Explosion of 29.4 Tons, Dc=1.9°.
	eiSg	05 13.7	
7	ei	12 48 31.5	
7	iP	23 15 00.8	C. West Pakistan, TPV=1.2 s A=68.7 mu, mPV=5.6,
	i	16 35	Dc=46.1°.
8	eiPg	01 18 24	Italy, Dc=5.2°.
	eiSn	19 02	

Date	Phase	h m s	Remarks
8	ePKIKP	04 30 23.2	Loyalty Islands, Dc=146.2°.
8	e	06 56 35	
	eiSg	56 41	
8	eiPKP	10 21 01	Tonga Islands, Dc=150.5°.
	iPKP2	21 10.8	
8	ePg	12 00 59	D=35 km.
	eiSg	00 03.2	
	Lm	00 05.5	
8	iP	13 20 14	D. Dodecanese Islands, TPV=1.3 s A=28.5 mu, mPV= 4.3, Dc=16.7°.
	ei	20 26	
8	eiP	15 42 41.5	Kurile Islands 48.5°N 153.5°E, H=15 31 05.2, h= 150 km(ISC), m=3.9 ISC, Dc=76.8°.
8	eiP	20 10 47.2	Greece-Bulgaria, Dc=11.4°.
	ei	11 57.3	
	ei	13 32.8	
	ei	14 21.2	
9	eP	01 08 15	Mexico, Dc=89.9°.
9	ei	07 37 08	
9	eiP	08 26 30.6	Sumatra 2.1°N 94.6°E, H=08 14 10, h=82 km(ISC), m=4.8 ISC, Dc=82.6°.
9	e	12 25 20	
	Lm	25 31	
9	e	12 40 05	
	eiSg	40 08.8	
	Lm	40 12	
9	ePKIKT	14 17 09	Easter Island Cordillera 35.3°S 106.0°W, H= 13 57 49.4, h=33 km(ISC), m=5.0 ISC, Dc=134.4°.
9	eP	14 55 53	Japan, Dc=79.5°.
9	eiP	15 27 14.5	Near Coast of Peru, Dc=100.8°.
9	ePg	16 16 36.5	D=50 km.
	eiSg	16 41.5	
	Lm	16 44	
9	eP	23 45 39	Japan, Dc=86.4°.
10	eP	05 42 01	C. Japan, TPV=1.2 s A=21.0 mu, mPV=5.3, Dc=87.7°.
10	e	12 45 06	
	eiSg	45 13	

Date	Phase	h m s	Remarks
10	eiP	12 50 27	Kodiak Island, TPV=1 s A=16.0 mu, mPV=5.0, Dc=74.1°.
10	ePg eiSg	12 52 55 53 21.5	D=2°.
10	eiP	13 24 31	Greece, Dc=11.7°.
10	eiSg	13 26 37	
10	e eiSg	14 33 21 34 08.4	
10	eiP i ei eiPP ei	14 34 47 35 03 38 20 38 49.2 51 26	C. Mariana Islands, TPV=1.4 s A=28.2 mu, mPV=5.8, Dc=98.7°.
10	eiPKIKP ei	15 17 56.4 18 13.6	Tonga Islands, Dc=149.8°.
10	e	20 24 18	
10	eiP eipP	20 25 11 25 55.5	D. Kurile Islands, TPV=1.0 s A=24.0 mu, mPV=4.9, Dc=77.2°.
11	e	05 43 12.4	Greece, Dc=11.5°.
11	eP	06 52 22	Greece 39.1°N 21.5°E, H=06 49 37, h=24 km(ISC), m=4.4 ISC, Dc=11.5°.
11	eiPg eiSg Lm	13 00 22.6 00 31.5 00 34	Explosion of 3.1 Tons, Dc=64 km.
12	e eiSg	06 52 14.5 52 29	
12	eP	08 12 43	Tadzhik SSR 39.2°N 71.6°E, H=08 04 56.4, h=50 km (ISC), m=4.5 ISC, Dc=41.8°.
12	e eiSg	11 00 21 00 36.8	
12	eiPg iSg Lm	11 01 27.8 01 44 01 49	D=1.2°.
12	eiPKIKP i	11 58 47.8 58 52	D. Tonga Islands, Dc=148.6°.
12	eP ei	13 39 07 39 18	Greece, Dc=11.7°.

Date	Phase	h m s	Remarks
12	ePg eiSg	14 37 25 37 56	D=2.4°.
12	eiP	16 41 56.5	Afghanistan - USSR, TPV=0.7 s A=15.6 mu, m=4.7, Dc=43.2°.
12	ePn eiSn ei(Sg)	23 43 52.5 44 32 44 50.2	Switzerland, Dc=4.0°.
13	iP iPP i	05 05 43.1 07 16 08 14	C. Semipalatinsk, TPV=1.2 s A=501.8 mu, mPV=6.1, Dc=40.6°.
13	eiPKIKP ei	06 54 36 54 54.8	Tanimbar Islands 6.6°S 132.7°E, H=06 36 00.7, h=46 km(ISC), m=5.7 ISC, Dc=113.8°.
13	eiP ei	10 55 55.2 56 11.3	China, TPV=1.0 s A=37.8 mu, m=5.5, Dc=70.5°.
13	eiP	13 26 58.5	Unimak Island, Dc=77.4°.
13	eiP	19 18 11	West Pakistan, Dc=46.2°.
14	eP	05 49 31	West Pakistan, Dc=46.2°.
14	ePKIKP	06 32 27,5	South of Australia, Dc=146.0°.
14	ePKP	08 51 47	Loyalty Islands 22.4°S 171.4°E, H=08 32 11, h=86 km(ISC), m=4.7 ISC, Dc=146.1°.
14	e ei	10 40 37 41 17	
14	e eiSg Lm	12 53 54 54 08 54 10	
14	eiP ei	18 01 49 02 20	Mediterranean Sea, TPV=1.0 s A=27.0 mu, mPV=4.3, Dc=17.3°.
14	eiP ei	20 19 47 23 25	Greece, Dc=11.7°.
15	eiP ei	01 40 48.2 40 55	Ryukyu Islands 27.7°N 129.1°E, H=01 28 16.7, h=33 km(ISC), m=5.2 ISC, Dc=84.4°.
15	eSg	03 51 48.5	Poland 50.3°N 19.2°E, H=03 49 47.8, m=2.8 WAR, Dc=3.8°.
15	eiPKIKP i i	10 16 24.2 16 33.2 16 44	Fiji Islands, Dc=152.9°.

Date	Phase	h m s	Remarks
15	e	13 44 23	
	eiSg	44 35	
	Lm	44 39	
15	e	14 55 41	
	eiSg	56 32.5	
15	ePKIKP	22 52 50	Fiji Islands, Dc=154.5°.
	ei	53 18	
	eipPKIKP	55 17.5	
	ei	55 37.2	
16	eiPKHKP	03 37 54.3	New Hebrides Islands, Dc=142.4°.
	i	37 58	
	i	38 42.5	
	iPP	41 06.5	
	ei	42 20	
16	eiP	11 05 33.8	Algeria, TPV=1.2 s A=31.5 mu, mPV=4.8, Dc=26.0°.
16	eiP	12 10 15	Aleutian Islands 52.3°N 169.5°W, H=11 58 12, h=
	ei	10 57	27 km, m=4.9 ISC, Dc=78.9°.
16	eiPg	12 56 26.2	D=2.2°.
	eiSg	56 55	
16	eiSg	16 11 08	
	Lm	11 11	
16	eiPKIKP	23 56 50	Tonga Islands, Dc=148.6°.
	ei	57 06.5	
17	eP	10 44 23	Greece 38.9°N 21.9°E, H=10 41 25.8, h=38 km(ISC), m=5.1 ISC, Dc=11.8°.
17	eiP	12 01 33.5	Mid-Indian Rise, Dc=99.6°.
	eiPP	05 44	
17	ePn	12 18 06	Italy, Dc=4.5°.
	eiPg	18 33.5	
	ei	19 11	
	ei	19 19	
	eiSg	19 28	
17	eiP	12 56 48	Indian Ocean 32.1°S 79.0°E, H=12 43 02, h=43 (ISC), m=5.6 ISC, Dc=99.7°.
17	eiSg	13 59 01	
	Lm	59 04	
17	eiPKIKP	18 39 17.5	South of Fiji Islands, Dc=152.3°.
	ei	41 40	
18	eiP	00 40 10.5	C. Japan, TPV=1.0 s A=27.0 mu, mPV=5.1, Dc=82.7°.

Date	Phase	h m s	Remarks
18	eiPKP	05 17 44.3	Fiji Islands region, Dc=150.6°.
18	e	09 14 01	
	eiSg	14 06.7	
	Lm	14 27.5	
18	eiP	19 14 21	Dc=77.1°.
	i	14 23	
	eipP	15 23.6	
19	e	04 15 14	
	eiSg	16 06.2	
19	eiPg	09 48 53	D=1.1°.
	eiSg	49 07.5	
19	ePg	09 56 59	D=100 km.
	eiSg	57 11.5	
19	eiP	10 25 16	Greece 39.0°N 21.6°E. H=10 22 27, h=8 km(ISC),
	ei	25 25.5	m=4.5 ISC, Dc=11.6°.
19	eiP	12 58 44	Hindu Kush region, Dc=43.7°.
	ei	59 08.7	
19	eiP	23 00 50	Kurile Islands, Dc=78.8°.
20	eiP	06 09 44.6	Kamchatka, TPV=1.0 s A=29.5 mu, mPV=5.2, Dc=74.2°.
20	eiPKIKP	06 30 33.8	Fiji Islands, Dc=147.4°.
20	e	12 51 56	
	eiSg	52 14.5	
20	iP	18 27 44.5	Kurik Islands, TPV=1.0 s A=43.0 mu, mPV=5.5, Dc=
	ei	27 59	77.6°.
20	ei	18 28 49.5	Kurik Islands, Dc=77.7°.
21	e	00 40 40.5	
21	ePg	12 08 34	
	ei	08 42	
21	e	12 46 03	
	eiSg	46 29.4	
21	eiP	13 31 05	Taiwan, Dc=83.8°.
21	eiP	14 25 55	Kamchatka, Dc=72.5°.
21	eiPg	14 40 44.4	D=1.4°.
	eiSg	41 02.4	
21	eP	32 49.6	Yugoslavia, Dc=8.5°.
	ei	34 42.5	

Date	Phase	h m s	Remarks
22	eiPn	00 21 48	Switzerland, Dc=7.2°.
	ei	22 58	
22	eiP	01 48 20.4	Kurile Islands, Dc=79.2°.
22	ePg	05 07 39.5	Switzerland 46.3°N 7.4°E, H=05 06 04(BCIS), Dc=
	eiSg	08 49.8	5.0°.
22	eiPKIKP	05 21 33	C. New Britain, Dc=123.8°.
	i	21 36	
	ei	22 34	
22	e	05 31 22	
22	ePg	11 02 24	D=50 km.
	eiSg	02 30	
22	ePg	11 23 28	D=1°.
	eiSg	23 41	
22	ePg	12 48 56	D=1°.
	eiSg	49 09	
	Lm	49 16	
22	eiSg	13 11 29	
	Lm	11 31	
22	ePg	11 56 27	D=2°.
	eiSg	56 53.6	
22	eiPKIKP	18 37 29.6	New Britain, Dc=123.9°.
23	e	01 03 13	
	eiSg	03 29.2	
23	ePn	13 48 23	Italy, Dc=5.1°.
	ei	48 43	
24	eP	00 27 03	India, Dc=62.8°.
24	eiP	05 51 55.7	C. Aleutian Islands, TPV=1.0 s A=21.5 mu, mPV=
			5.2, Dc=77.0°.
24	eiPg	09 04 26	D=76 km.
	eiSg	04 35	
24	eiP	20 04 27.2	Alaska, Dc=70.1°.
24	eiP	21 31 36.8	Central Mid-Atlantic Ridge, Dc=60.0°.
25	ePg	07 41 49	D=1.1°.
	eiSg	42 04.5	
25	ePg	12 46 09	D=1.7°.
	eiSg	46 32	

Date	Phase	h m s	Remarks
25	ePg	14 30 03	D=100 km.
	eiSg	30 15	
25	iPKIKP	23 10 24.8	D. Tonga Islands, Dc=145.8°.
	i	10 32	
25	e	23 15 56	
	ei	18 12.5	
25	eiPKIKP	23 41 48.5	Samoa Islands,15.4°S 172.5°W, H=23 22 11.8, h=
			33 km(ISC), m=4.4 ISC, Dc=146.0°.
26	eiPKIKP	00 05 45	Samoa Islands 14.9°S 173.1°W, H=23 46 07.2, h=
			33 km(ISC), m=4.4 ISC, Dc=145.4°.
26	iP	00 45 41.2	Aleutian Islands, TPV=1.2 s A=65.6 mu, mPV=5.6,
	i	45 57.4	Dc=77.1°.
	eiPP	46 28.2	
26	eiPKHKP	03 08 51.6	Tonga Islands, Dc=152.0°.
	ei	09 06.4	
26	ePg	14 36 56	D=1.1°.
	eiSg	37 10.6	
26	eiP	20 57 13.5	Iran 30.6°N 50.8°E, H=20 50 38.0, h=60 km(ISC),
			m=4.6 ISC, Dc=33.6°.
27	ePg	05 47 07.7	D=1.1°.
	eiSg	47 22.5	
27	e	11 44 09	
	ei	44 44.7	
27	eiP	16 42 11	Aleutian Islands, Dc=77.8°.
27	eiP	20 54 52.8	Unimak Islands, TPV=1.0 s A=15.5 mu, mPV=5.1,
	ei	57 59	Dc=77.2°.
27	ei	22 27 21	
28	eiPn	01 10 09	Germany 48.2°N 9.8° E, H=01 09 27, h=15 km(STU),
	iSg	10 52	Dc=2.7°.
28	ePg	02 06 45	D=1.3°.
	eiSg	07 02.5	
28	e	12 51 58	
	eiSg	52 06	
28	eiP	13 48 06.6	C. Ryukyu Islands, TPV=1.2 s A=63.0 mu, mPV=5.7,
	ei	48 16.2	Dc=83.8°.
28	eiSg	15 30 28	
	Lm	30 32	

Date	Phase	h m s	Remarks
28	eiPKIKP	18 12 51.5	C. Loyalty Islands, Dc=147.0°.
	ei	13 21.7	

Date	Phase	h m s	Remarks
1	e	10 07 20	
	eiSg	07 38	
1	ePg	12 30 59.5	D=1.1°.
	eiSg	31 14	
	Lm	31 19	
1	ePg	12 46 51.7	D=1.1°.
	eiSg	47 05.7	
1	eSg	15 10 10	
	Lm	10 19	
1	eiP	21 51 18.8	
2	eP	02 42 07	Caucasus, Dc=23.0°.
	ei	42 09.5	
	i	42 15.7	
	eL	49 16	
	Lm	50 10	
2	e	10 49 34	
	eiSg	49 52.5	
2	eiPn	11 39 31	Poland, Dc=3.7°.
	ei	39 47	
	eiSg	40 29.7	
2	eiP	12 03 13.2	C. Aleutian Islands, TPV=1.1 s A=41.0 mu, mPV=5.5, Dc=77.1°.
2	ePg	12 49 18.5	D=2°.
	eiSg	49 44.8	
3	iP	03 37 18.8	C. Kurile Islands, TPV=1.2 s A=269 mu, mPV=6.0, Dc=77.2°.
	ei	38 05	
	ei	39 17	
3	eiP	10 27 22	North Atlantic Ridge, Dc=54.9°.
3	ei	11 46 37.7	
3	ePg	15 53 53.5	D=55 km.
	eiSg	53 59	
	Lm	54 02	
3	e	16 45 45	
	eiSg	46 03	
3	eiPKIKP	21 46 19	Fiji Islands, Dc=149.7°.
3	ePg	22 27 02	D=1.1°.
	eiSg	27 16	
4	eiPKIKP	02 00 31	Fiji Islands, Dc=147.4°.

Date	Phase	h m s	Remarks
4	eiP	04 58 07.5	Spain 36.1°N 7.6°W, H=04 53 32, h=26 km(ISC), m=4.2 ISC, Dc=20.2°.
4	e	13 15 47	
4	ePg eiSg	13 51 52 52 13	D=1.6°.
4	ePg	14 31 04	Kodiak Island 57.0°N 153.3°W, H=14 19 27, h=6 km (ISC), m=4.6 ISC, Dc=73.7°.
4	ePg eiSg	15 05 19 05 26	D=60 km.
4	ePg eiSg	17 17 50 18 06.3	D=1.2°.
5	eiPKP1 eiPKP2	00 18 55.7 19 52	New Zealand, Dc=164.4°.
5	eiPg eiSg	00 23 02.5 23 26	D=1.7°.
5	eiP	05 00 34	C. Japan, TPV=0.8 s A=13.8 mu, mPV=5.1, Dc=78.4°.
5	e ei eiSg	08 33 59 34 10 34 48.5	
5	eiP	15 01 13.5	
5	ePg eiSg	15 09 52 10 08	D=1.2°.
5	eiPKIKP ei	16 04 40.8 05 07.8	D. Fiji Islands, Dc=145.5°.
5	eiP ei eiPP	21 04 22.5 04 40.5 06 25.8	Ascension Island, Dc=56.0°.
5	eiPKIKP ei	23 09 21 09 27.8	Tonga Islands, Dc=152.1°.
6	eiP	02 20 06.5	D. Tibet, TPV=1.0 s A=21.5 mu, mPV=5.0, Dc=52.3°.
6	eiP i eiPP i	02 25 05.1 25 11 27 14.8 30 12.5	D. Tibet, TPV=1.5 s A=82.0 mu, mPV=5.4, Dc=52.3°.
6	eiPKIKP ei i	18 21 39 21 44.2 21 56.5	Fiji Islands, Dc=153.7°.

Date	Phase	h m s	Remarks
7	eiP i i eiS	01 21 05 21 10.7 22 04.7 25 14	D. Turkey, TPV=1.0 s A=24.0 mu, mPV=4.6, Dc=22.3°.
7	eiPKP ei	02 54 11.6 54 20	D. Fiji Islands, Dc=150.0°.
7	eiP	07 37 48.5	Kamchatka 54.0° N 160.8°E, H=07 26 20, h=61 km (ISC), m=4.3 ISC, Dc=73.6°.
7	eiSg Lm	11 52 15.5 52 20	
7	eiSg	12 42 42	
7	eiPg eiSg	14 41 33 41 51	D=1.4°.
7	ei eiSg	16 09 03 09 10	
7	eiP	17 17 06.5	Eastern Caucasus, Dc=23.1°.
7	ei	20 52 34	
7	iPg iSg	21 22 20.5 22 45.4	Austria, D=2.2°.
7	eiP i ei	21 40 21.8 40 28 41 53	China, Dc=69.4°.
7	eiP	22 46 47	Tibet, TPV=1.0s A=16.0 mu, mPV=5.2, Dc=65.4°.
8	eiPKIKP ei ei	00 37 54 38 00.2 39 44	Tonga Islands, Dc=149.5°.
8	eiPKP eiPP	01 33 03.2 35 49.7	New Hebrides, Dc=138.2°.
8	eiP ei	01 36 38.8 36 44.8	
8	e	01 45 06.5	
8	eiPg eiSg	04 25 16.5 25 32.2	D=1.2°.
8	eP ei eiPP	05 55 03 58 24 59 21	Molucca Passage, Dc=103.3°.
8	eiPg eiSg	06 04 41.5 05 05.2	D=1.8°.

Date	Phase	h m s	Remarks
8	e	12 45 50	
	eiSg	46 03	
	Lm	46 07	
8	ei	12 49 41	
	eiSg	49 55	
8	eiPg	16 17 56	D=1.6°.
	eiSg	18 17	
8	eiP	18 54 34.2	Greece, Dc=11.7°.
	ei	55 06.5	
	ei	56 36	
8	eP	20 59 46	Chile - Bolivia, Dc=100.1°.
	eiPP	21 03 43.5	
8	eiPKP	23 35 39	Tonga Islands, Dc=151.5°.
	ei	35 47.7	
	ei	38 28	
9	eiP	01 51 02.7	Kurile Islands, TPV=1.0 s A=8.5 mu, mPV=4.6, Dc=77.6°.
9	eiP	03 21 33.5	Uganda 2.3°N 31.4°E, H=03 12 47.6, h=35 km(ISC), m=5.4 ISC, Dc=49.1°.
9	eiP	03 38 25	Uganda 2.2°N 31.3°E, H=03 29 39, h=42 km(ISC), m=4.6 ISC, Dc=49.2°.
9	eiPg	10 00 59.5	D=1.1°.
	eiSg	00 14.7	
9	eiPn	10 27 32	Explosion of 8 Tons, Dc=108 km.
	eiPg	27 34.2	
	iSg	27 49.5	
9	e	12 47 34	
	eiSg	47 59.5	
9	eiPg	15 52 14	D=1.3°.
	eiSg	52 31	
9	ePKIKP	16 03 03	Easter Island Cordillera 55.2°S 126.7°W, H=15 43 11.4, h=33 km(ISC), m=5.0 ISC, Dc=155.2°.
9	e	16 25 17	
	eiSg	25 24.3	
10	iP	04 38 13.5	D. Japan, TPV=0.8 s A=42.0 mu, mPV=5.3, Dc=84.9°.
	eipP	39 44.2	
	e	41 33.5	
10	ei	09 33 18	

Date	Phase	h m s	Remarks
10	ei	10 30 08.5	
10	eiP	11 23 49.3	Turkey, TPV=1.2 s A=19.0 mu, mPV=4.4, Dc=21.9°.
10	e	11 50 37	
	eiSg	50 47.7	
	Lm	50 55	
10	eiPKP	12 34 31.5	Fiji Islands, Dc=149.0°.
	ei	35 55	
10	e	12 45 35	
	ei	45 43	
	eiSg	46 02	
10	e	12 55 03.5	
	eiSg	55 08	
	Lm	55 10	
11	ei	02 06 10	C.
11	e	04 12 44	
11	ePg	09 03 14	D=1.1°.
	eiSg	03 29.5	
11	eiPg	09 59 09	D=1.3°.
	eiSg	59 26	
	Lm	59 32	
11	eiPg	12 02 44.5	D=76 km.
	eiSg	02 53	
	Lm	02 57	
11	eSg	12 30 09.5	
	Lm	30 12	
11	e	12 34 42	
	eiSg	35 38.5	
11	ePg	12 52 04.5	D=1.4°.
	eiSg	52 23	
11	eiPg	13 53 38	D=68 km.
	eiSg	53 46	
11	eiPg	20 05 35.7	Mediterranean Sea, Dc=16.7°.
	i	05 41.3	
11	eiP	20 22 05.4	Greece 38.8°N 21.7°E, H=20 19 19.8, h=48 km(ISC), Dc=11.8°.
11	eiP	23 22 06	North Atlantic Ridge, Dc=48.2°.
11	eiP	23 24 21	North Atlantic Ridge, TPV=1.3 s A=28.7 mu, mPV=5.1, Dc=48.2°.

Date	Phase	h m s	Remarks
11	eiP	23 27 28.5	North Atlantic Ridge, TPV=1.1 s A=17.5 mu, mPV=5.1, Dc=48.1°.
11	eiP	23 45 21	C. North Atlantic Ridge, TPV=1.3 s A=32.0 mu, mPV=5.2, Dc=48.1°.
12	eiPKIKP	01 25 21	Kermadec Islands, Dc=159.8°.
12	ei ei eiSg	06 06 31 07 15.5 07 30	
12	eiPKIKP ei	14 39 15.7 39 23.2	C. Samoa Islands, Dc=145.4°.
12	eiPKIKP	14 46 36	C. Tonga Islands, Dc=145.9°.
12	eiPKIKP ei	15 55 24.5 55 34.5	Fiji Islands 22.5°S 176.7°W, H=15 35 36.1, h=66 km(ISC), m=4.6 ISC, Dc=152.3°.
12	iP i iS	16 43 45.0 43 55.0 54 10.6	C. Taiwan, TPV=1.4 s A=627.0 mu, mPV=6.7, Dc=83.6°.
12	eiP eisP	18 12 00 12 29	Taiwan, TPV=1.1 s A=23.5 mu, mPV=5.3, Dc=83.6°.
12	eiP	18 26 07.5	Taiwan, Dc=84.1°.
12	eiP	19 26 24.5	D. Taiwan, Dc=84.2°.
12	eiP	19 35 27	D. Taiwan, Dc=84.0°.
12	eiP	20 44 08.0	Taiwan, Dc=83.7°.
12	eP	21 04 16	Taiwan, Dc=83.5°.
13	eiP ei	01 45 13 45 19	North Atlantic Ridge, Dc=48.1°.
13	eiP	04 23 43.5	Taiwan, Dc=83.7°.
13	e eiSg	07 08 45 09 00.5	
13	e ei	12 02 02 02 25.5	
13	e ei	12 13 37 14 44.3	
13	eiP	15 06 14.5	C. Taiwan, TPV=1.1 s A=23.5 mu, mPV=5.3, Dc=84.0°.
13	eiPKIKP	18 18 26.5	Eastern Island Cordillera, Dc=155.1°.
13	eiPKIKP i	19 00 22 00 28.0	C. Tonga Islands, Dc=151.2°.

Date	Phase	h m s	Remarks
13	eiP	19 14 17.6	Ryukyu Islands, Dc=84.2°.
13	eiP ei	19 38 40.8 39 14	Greece 38.7°N 21.6°E, H=19 35 55, h=65 km(ISC), m=4.1 ISC, Dc=11.9°.
13	eiPKIKP	22 07 41.5	Tonga Islands 20.8°S 175.1°W, H=21 47 51.5, h=31 km(ISC), m=4.5 ISC, Dc=150.9°.
14	eiP ei	03 31 34.3 31 57.5	Mid-Atlantic Ridge, Dc=59.5°.
14	eP	04 53 12	Tibet, Dc=62.5°.
14	eP	06 50 22.5	Japan 36.7°N 141.1°E, H=06 38 04.5, h=63 km(ISC), m=5.0 ISC, Dc=82.7°.
14	eiPg eiSg Lm	09 29 49.2 30 06.2 30 18	Explosion of 8 Tons, Dc=129 km.
14	eP	09 34 15	Taiwan 23.8°N 122.4°E, H=09 21 50.5, h=56 km(ISC), m=4.8 ISC, Dc=83.7°.
14	e eiSg	12 22 46 23 05	
14	e eiSg	12 43 26 43 32.2	
14	eP ei	14 11 26.5 11 40.2	Greece, Dc=11.5°.
15	e eSg	03 02 26 03 24.5	
15	eiP	11 26 24	Taiwan, TPV=1.1 s A=17.5 mu, mPV=4.9, Dc=83.6°.
15	e eiSg	12 30 13 33 18	
15	ePg eiSg	14 44 31 44 45	D=1.1°.
15	eiPKP eiKKP2	16 29 12.5 29 23.2	Fiji Islands, Dc=151.2°.
15	eiP	23 44 14	Taiwan, TPV=1.2 s A=16.0 mu, mPV=5.1, Dc=83.6°.
16	eiPKIKP ei	00 03 02.5 03 05.8	Tonga Islands, Dc=147.6°.
16	eiPg eiSg	04 33 08 33 25.8	D=1.4°.

Date	Phase	h m s	Remarks
16	ePn	11 24 48.7	Switzerland, D=4.0°.
	eiPg	25 00.2	
	ei	25 24.5	
	eiSg	25 50.2	
16	eiPKP	12 32 45	Tonga Islands, Dc=151.5°.
	i	32 51.2	
16	eiPn	13 27 53.6	Austria, Dc=2.3°.
	eiPg	28 02	
	iSn	28 28.0	
16	ei	13 34 04	
	eiSg	34 32.2	
16	eiPn	15 51 38	Austria, Dc=2.5°.
	eiPg	51 45.2	
	eiSn	52 11.6	
16	eP	20 51 43	Sulu Sea, Dc=94.8°.
16	ePg	21 32 44	D=2.2°.
	eiSg	33 12	
17	eiPKIKP	08 09 57.7	Samoa Islands 14.5°S 172.8°W, H=07 50 22.0, h=
	ei	10 05.2	33 km(USCGS), m=4.4 USCGS, Dc=145.1°.
17	e	12 46 51	
	ei	46 56	
	Lm	47 17	
17	eiPg	12 59 45.7	D=21 km.
	iSg	59 48.2	
	Lm	59 49.2	
17	iPKIKP	16 09 08.0	D. Tonga Islands, Dc=150.2°.
	i	09 15.3	
	i	12 53	
	ei	16 22	
	ei	18 45	
18	eiP	01 19 04.5	North Atlantic Ridge, Dc=48.1°.
18	eP	03 00 38	
	ei	00 42.6	
	e	02 12	
18	eiP	06 23 27	Congo 9.0°N 29.8°E, H=06 14 35, h=58 km(ISC), Dc= 50.0°.
18	eiPg	07 25 47.5	D=2.1°.
	eiSg	26 14.5	
	Lm	26 30	
18	eiSg	09 00 45	
	Lm	00 59	

Date	Phase	h m s	Remarks
18	ePg	10 39 45	D=1.5°.
	eSg	40 05	
	Lm	40 17	
18	ePg	13 06 47	D=1.8°.
	eSg	07 11	
	Lm	07 34	
18	iPg	13 57 02.7	D=63 km.
	iSg	57 10.2	
	Lm	57 14	
18	eiPg	14 00 14.2	D=2.3°.
	ei	00 38.7	
	eiSg	00 44.2	
	Lm	00 55	
18	eiP	17 20 24	Mid-Indian Rise, Dc=76.0°.
18	iPg	17 49 27.7	D=102 km.
	iSg	49 39.6	
18	eiP	18 22 18.1	C. Southern Alaska, TPV=1.2 s A=10.0 mu, mPV=5.1,
	eiPcP	22 28	Dc=69.7°.
18	eiPKIKP	21 05 48.5	New Hebrides, Dc=145.7°.
	ei	06 14	
	isPKIKP	06 27	
19	ei	07 17 06.5	
	ei	17 24	
19	iP	08 23 46.0	C. Japan, TPV=1.4 s A=340 mu, mPV=5.2, Dc=79.1°.
19	eiPg	09 19 36	D=1.6°.
	eiSg	19 57.5	
19	eiPg	11 00 57.5	D=2.3°.
	eiSg	01 28	
19	ePP	17 34 40	South Africa, Dc=101.7°.
	ei	34 48	
20	e	00 09 54	Belgium, Dc=6.1°.
	eiSn	10 44	
	eiSg	11 26.5	
20	eiP	01 51 41.7	Uganda, TPV=1.7s A=738.6 mu, mPV=6.3, Dc=50.1°.
	ei	53 41	
	e	56 59	
20	eiP	02 26 34	
20	eiP	02 48 35.5	Congo 1.1° 29.9°E, H=02 39 41.0, h=16 km(ISC),
	ei	48 45.5	m=5.4 ISC, Dc=49.9°.

Date	Phase	h m s	Remarks
20	eiP	03 31 40.5	D. Uganda, TPV=1.1 s A=24.8 mu, mPV=5.1, Dc=50.2.
	i	31 44.5	
20	iP	05 57 42.9	C. Kazakh, TPV=1.0 s A=158.6 mu, mPV=5.7, Dc=
	i	57 51.9	40.8°.
	eiPP	59 12	
	Lm	06 11.7	
20	iPKIKP	08 07 22.2	D. Tonga Islands, Dc=147.4°.
	ipPKIKP	07 57.7	
20	eiPKIKP	08 26 15	Tonga Islands, Dc=146.9°.
20	iP	09 04 32.7	D. Congo, Dc=50.2°.
	i	04 35.2	
20	eiPKIKP	09 24 11.5	D. Tonga Islands, Dc=151.3°.
	i	24 16.7	
	i	24 27.2	
20	ePKP	18 28 31	Santa Cruz 12.3°S 167.4°E, H=18 09 09, h=50 km (ISC), m=5.1 ISC, Dc=137.4°.
20	eiP	21 55 11.8	C. Jan Mayen, TPV=1.7 s, A=26.0 mu, mPV=4.5, Dc= 23.8°.
20	eiP	22 34 02	Jan Mayen 71.1°N 5.5°W, H=22 28 52, h=48 km(ISC), m=4.4 ISC, Dc=23.8°.
21	eiP	00 15 25.2	D. Taiwan, TPV=1.1 s A=16.0 mu, mPV=5.2, Dc= 84.3°.
21	iP	01 39 35.7	D. Uganda, TPV=1.2 s A=63.0 mu, mPV=5.4, Dc=
	i	40 39.7	50.1°.
	eiPP	41 38	
21	iP	06 41 39.9	C. Ryukyu Islands 26.1°N 129.1°E, H=06 29 00, h=
	e	42 30	22 km(ISC), m=5.4 ISC, TPV=1.1 s A=16.0 mu, Dc= 85.7°.
21	iP	09 32 47.5	D. Uganda, TPV=1.3 s A=48.0 mu, mPV=5.3, Dc=
	ei	33 17	50.1°.
21	e	12 38 54	
	eiSg	39 15	
	Lm	39 38	
21	e	13 01 38	
	eiSg	02 18	
21	eP	17 53 00	Kurile Islands, Dc=79.0°.
21	eP	20 50 08	Taiwan, Dc=84.6°.
21	eiPn	21 40 35.7	Yugoslavia, Dc=6.7°.
	eiSn	41 46	
	eiSg	42 35.7	

Date	Phase	h m s	Remarks
21	iPKP	21 48 55.7	C. Tonga Islands 18.4°S 178.4°W, H=21 30 03.3, h= 486 km(ISC), m=3.9 ISC, Dc=147.9°.
22	eiPn	02 45 17.7	Yugoslavia, Dc=6.3°.
	ei	45 34.7	
	eiSn	46 27.7	
22	ePn	05 50 09	Yugoslavia, Dc=6.4°.
	ei	50 16	
	eiSg	51 19	
22	eiP	08 22 47.7	C. China, TPV=2.0 s A=81.0 mu, mPV=5.6, Dc=69.3°.
	ei	23 34	
22	eiP	08 30 39.5	China, Dc=69.3°.
	ei	31 04.5	
	e	39 46	
22	eiP	09 56 06.7	Kurile Islands 45.6°N 150.9°E, H=09 44 08.7, h= 50 km(ISC), m=4.2 ISC, Dc=78.6°.
22	eiP	11 19 43.3	China, TPV=1.4 s A=29.0 mu, mPV=5.3, Dc=69.2°.
22	ePg	12 50 16.8	D=34 km.
	eSg	50 20.8	
	Lm	50 24	
22	ei	13 14 25.8	
	eiSg	14 56.8	
22	e	13 17 50	
	ei	18 51	
22	ePg	15 00 29	D=1.4°.
	eiSg	00 47	
23	eiP	00 17 02	Taiwan, Dc=84.0°.
	ei	17 30	
	i	17 57	
23	eiP	05 23 58.6	Caribean Sea 16.8°N 85.9°W, H=05 11 32.6, h= 33 km(ISC), m=5.1 ISC, Dc=83.5°.
23	ePKIKP	08 21 05	Tonga Islands, Dc=151.9°.
	i	21 14.7	
23	iPg	09 01 11.7	
	iSg	01 33.2	
	Lm	01 57	
23	e	12 43 54	
	eiSg	44 16.2	
23	eiPg	12 50 19.7	
	ei	50 43	
	ei	51 05	

Date	Phase	h m s	Remarks
23	e	20 28 50	
	ei	29 56	
23	eiPg	23 11 40.5	D=1.2°.
	eiSg	11 56.5	
24	e	01 35 48	
24	eiP	03 34 10.5	Aleutian Islands, Dc=76.7°.
24	eiPKP	04 24 21.5	Fiji Islands, Dc=151.4°.
	i	24 27.7	
	eipPKP	25 17	
24	eiPKIKP	08 47 13	New Hebrides 13.7°S 166.7°E, H=08 27 51.5, h= 46 km(ISC), m=5.3 ISC, Dc=138.3°.
24	eiP	08 50 45.5	
24	eiPg	13 06 58.5	D=1.9°.
	eiSg	07 23.6	
24	eiPn	15 00 21.5	
	iPg	00 23.6	
	iSg	00 49.5	
24	eiPKIKP	22 27 32	Tonga Islands 19.8°S 175.5°W, H=22 08 04, h= 184 km(ISC), m=4.4 ISC, Dc=149.9°.
25	iPg	10 02 35.3	D=1.1°.
	iSg	02 50.3	
25	e	12 05 20	
	ei(Sg)	05 48	
25	eiP	13 06 58.7	Aleutian Islands, Dc=79.0°.
25	ei	21 02 18.3	
	eiSg	03 06.8	
25	eiP	22 06 28	Uganda 1.0°S 30.4°E, H=21 57 39, h=33 km(ISC), Dc=50.1°.
26	eiPg	09 27 13.8	D=1.1°.
	eiSg	27 28.8	
	Lm	27 44	
26	eiP	09 53 19.2	Southern Rhodesia, Dc=[illegible]°.
26	eP	12 35 15.2	Iceland region 63.2°N 24.4°W, H=12 29 55.8, h= 33 km(ISC), m=4.8 ISC, Dc=24.9°.
26	eiP	14 21 47.5	Philippine Islands, TPV=1.2 s A=20.4 mu, mPV=5.1, Dc=85.9°.
		[illegible] 09	China, TPV=1.2 s A=[illegible] mu, mPV=5.5, Dc=69.2°.
		[illegible] 58	

Date	Phase	h m s	Remarks
26	eiP	18 25 27.1	China, TPV=1.5 s A=23.0 mu, mPV=5.2, Dc=69.1°.
26	eP	20 20 28	Greece, Dc=11.7°.
	ei	20 44.8	
26	ePg	21 26 58	Germany, Dc=3.1°.
	ei	27 24.8	
	eiSg	27 39.8	
27	eiP	01 49 46.5	Arabian Sea, Dc=49.4°.
27	eiP	01 52 19	Greece, Dc=13.4°.
27	eiP	19 06 28.8	Costa Rica, TPV=1.5 s A=91.0 mu, mPV=5.9, Dc= 86.0°.
	ei	06 57.8	
28	e	12 18 03	
	eiSg	19 31.2	
28	ei	16 16 56	
28	eiP	17 56 10.8	Peru - Ecuador, Dc=95.9°.
	ei	56 27.5	
28	ePKP	19 32 12	Tonga Islands 20.7°S 173.7°W, H=19 12 29, h= 80 km(ISC), m=7.0 ISC, Dc=151.1°.
29	eP	00 12 25	Dodecanese Islands 37.0°N 26.8°E, H=00 08 42.8, h=33 km(ISC), Dc=15.5°.
29	eiP	02 30 49.5	Volcano Islands, Dc=94.2°.
	ei	31 15	
	eiPP	34 36	
29	eiP	06 23 06.2	C. China, TPV=1.6 s A=50.0 mu, mPV=5.5, Dc=69.3°.
	eiPP	25 42	
29	ePg	09 34 20	D=1°.
	iSg	34 33.2	
	Lm	34 38	
29	eiSg	10 17 29.7	
	Lm	17 35	
29	eiPKIKP	11 01 50	Tonga Islands, Dc=150.4°.
	i	01 56.7	
	ei	02 24	
29	eiP	17 33 02.5	Uganda 1.0°N 30.2°E, H=17 24 10, h=31 km(ISC), Dc=50.0°.
30	eiP	04 27 05.5	Arabian Sea, Dc=47.0°.
	i	27 13.6	

Date	Phase	h m s	Remarks
30	eiSg Lm	11 31 41 31 44	
30	eiP	12 51 51.6	Vancouver Island, Dc=76.4°.
30	eiPKIKP	13 28 45.5	Tonga Islands, Dc=149.6°.
30	eiPKP	13 32 38.1	New Ireland, Dc=124.0°.
30	ei	16 48 45.6	
30	eiP	18 58 34.3	Japan, Dc=81.0°.
30	eiPKP2	21 01 27.4	Kermadec Islands, Dc=161.1°.
31	eiP	05 23 30	Kurile Islands, Dc=77.9°.
31	eiPKP	05 25 20	New Hebrides, Dc=142.0°.
31	e ei eiSg	11 17 53 18 00 18 38	
31	eiPg eiSg	14 00 45.3 01 21.5	D=2.8°.
31	eiPg eiSg Lm	14 23 45 23 50 23 44	D=43 km.
31	ePKP2	14 54 06	South of Kermadec Islands 33.2°S 178.5°W, H=14 33 24.8, h=33 km(ISC), m=4.8 ISC, Dc=161.7°.
31	eiP ei	20 56 16.6 56 27.1	C.
31	iP ipP eiPP	23 45 40.6 46 25.7 47 26	C. Hindu Kush, TPV=1.1 s A=19.0 mu, mPV=4.5, Dc=42.8°.
31	eiP	23 50 56.7	D.

Date	Phase	h m s	Remarks
1	eiP	03 03 03.2	Aleutian Islands, TPV=1.0 s A=12.2 mu, mPV=4.8, Dc=78.3°.
1	eiP ei	03 49 33.5 51 47	Alaska 64.5°N 152.0°W, H=03 38 41.6, h=33 km(ISC), m=4.3 ISC.
1	eiSg Lm	10 15 51 15 58	
1	iPg iSg Lm	13 00 44 01 09 01 24	Explosion of 23.3 Tons, Dc=210 km.
1	eiP ei	13 17 56.5 18 41	Greece, Dc=11.8°.
1	eiP ei ei	17 56 09 58 11 58 42	Yugoslavia 42.9°N 20.2°E, H=17 54 20.6, m=3.8 (BCIS), Dc=7.7°.
2	eiP ei	02 05 47,5 09 13.5	Mexico, Dc=90.7°.
2	eiPg eiSg	08 30 49.5 31 19.	Dc=2.3°.
2	iP ei	22 55 36.5 55 49	C. Japan, TPV=1.5 s A=46.3 mu, mPV=5.3, Dc=81.5°.
2	eiPKIKP	22 58 49	Tonga Islands, Dc=147.5°.
3	iP ePP	04 55 59.0 58 52	C. Japan, TPV=1.2 s A=125.0 mu, mPV=6.0, Dc=82.7°.
3	eP	05 15 07	Algeria 36.4°N 2.8°E, H=05 11 36.9, h=14 km(ISC), m=4.2 ISC, Dc=15.0°.
3	eiP e	11 39 12 41 19	Greece, Dc=11.7°.
3	eiPKIKP	16 14 58.8	Fiji Islands region, Dc=146.8°.
3	eiP	22 22 05.3	
3	eP	23 07 52	Jan Mayen, Dc=24.0°.
4	eP ei	00 09 26 10 31	Italy 42.7°N 10.8°E, H=00 07 40, h=0(ISC), Dc=7.0°.
4	eP ei	03 03 13 03 19	Andaman, Dc=74.0°.
4	ePKP ei	05 57 39 57 44.5	Macquarie Island, Dc=150.6°.

Date	Phase	h m s	Remarks
4	eiPKIKP	06 36 39.8	D. New Britain 5.5°S 151.7°E, H=06 17 44.7, h= 39 km(ISC), m=5.3 ISC, Dc=123.9°.
4	eiP	06 53 49	Andaman, TPV=1.5 s A=27.5 mu, mPV=5.1, Dc=74.0°.
	e	54 40	
4	eiP	09 34 42.5	Sakhalin 50.7°N 143.6°E, H=09 23 18.2, h=20 km (ISC), m=4.7 ISC, Dc=71.8°.
4	e	12 42 1[illegible]	
	eiSg	42 40	
4	eiP	20 02 47.8	C. Salvador, TPV=1.2 s A=13.0 mu, mPV=5.1, Dc= 88.2°.
	ei	03 11.6	
4	eP	20 55 20	Azores Islands, Dc=33.9°.
4	iP	05 09 39.3	C. Kurile Islands, TPV=0.7 s A=25.0 mu, mPV=5.3, Dc=79.1°.
	i	09 40.8	
	ei	10 01	
5	eiP	06 18 58.9	Northern Rhodesia, Dc=66.6°.
5	eiP	09 03 35	C. Japan, TPV=1.1 s A=20.5 mu, mPV=5.1, Dc=81.5°.
5	eiPg	11 55 05.5	D=1.6°.
	eiSg	55 26	
6	eiPg	00 50 04	D=1.3°.
	eiSg	50 21	
6	eP	02 00 04.2	West Pakistan, Dc=45.3°,
	ei	00 30.2	
6	e	14 43 14	
	eiSg	43 22.5	
6	eiPKIKP	20 05 21	Loyalty Islands, Dc=148.0°.
	ei	05 53.6	
6	eiPKIKP	20 12 04	Loyalty Islands 21.5°S 170.3°E, H=19 52 28, h= 47 km(ISC), Dc=146.8°.
6	eiP	22 06 39.5	Philippine Islands, Dc=97.8°.
6	iP	22 40 13.9	C. Kodiak Island, TPV=1.0 s A=46.0 mu, mPV=5.5, Dc=74.3°.
	eiPcP	40 24.6	
7	eP	00 44 16.6	Dodecanese Islands 36.8°N 26.7°E, H=00 40 32.6, h=26 km(ISC), Dc=15.6°.
7	eiP	03 28 41.5	Greece, Dc=12.5°.
	ei	28 57.5	

Date	Phase	h m s	Remarks
7	eiP	04 04 42	Kurile Islands, Dc=79.0°.
7	eiPKIKP	05 22 34	Tonga Islands, Dc=145.9°.
	ei	22 47.5	
7	eiPn	08 0[illegible] 58	Germany, Dc=3.1°.
	eiPg	09 07.2	
	eiSn	09 33.5	
	iSg	09 48.4	
7	iP	09 55 03.5	C. Ryukyu Islands, TPV=1.2 s A=81.2 mu, mPV=5.8, Dc=84.7°.
	i	55 15.5	
	ei	57 03.6	
7	eiPg	10 13 47	Explosion of 6.5 Tons, Dc=98 km.
	eiSg	13 58.5	
7	eiPg	12 40 11.5	D=60 km.
	eiSg	40 1[illegible].6	
	Lm	40 21.5	
7	e	12 43 00	
	eiSg	43 22.5	
7	eiPKIKP	14 56 18.8	Tonga Islands, Dc=154.0°.
	ei	56 41	
7	eiPg	18 58 32.5	Italy 44.2°N 7.4°E, H=18 56 26(BCIS), Dc=6.5°.
	eiSg	59 56.4	
7	eiPn	19 40 33.7	Italy, D=6.4°.
	iPg	41 05.8	
	iSn	41 47.2	
	iSg	42 30	
8	iP	01 58 25.9	C. Kamchatka, TPV=1.6 s A=38.5 mu, mPV=6.2, Dc= 75.4°.
	i	58 31.3	
	i	59 59	
	ei	02 00 16.3	
8	iP	05 36 26.5	Kamchatka, TPV=1.0 s A=29.7 mu, mPV=5.3, Dc=75.3°.
	ei	37 19	
8	iP	05 58 41.6	C. North Atlantic Ocean, TPV=1.1 s A=47.2 mu, mPV= 5.2, Dc=29.3°.
	ei	59 07	
	ei	06 00 25	
8	eiPKIKP	07 35 35.8	Tonga Islands 20.4°S 173.9°W, H=07 15 50, h=74 km (ISC), m=4.3 ISC, Dc=150.7°.
8	eiP	09 30 41.5	Kodiak Island, Dc=73.8°.
	ei	30 59.7	
8	eiPg	10 39 56.5	D=1.0°.
	eiSg	39 09.2	
8	eiPKIKP	10 51 12	Salomon Island, Dc=128.6°.
	ei	51 19	

Date	Phase	h m s	Remarks
8	eiPKIKP	11 29 52.2	Tonga Islands, Dc=145.2°.
	ei	30 09.2	
8	e	11 40 04	
	eiSg	28 28.2	
8	e	11 41 13	
	eiSg	41 37.2	
8	eiP	13 51 05.6	Mediterranean Sea, Dc=18.4°.
	ei	51 29	
8	eiP	22 22 32.4	Kodiak Island, Dc=74.0°.
	ei	23 08.1	
8	eiP	23 58 43.2	Aleutian Islands, Dc=77.4°.
	eiPcP	56 56.5	
9	iP	02 47 10.8	C. Costa Rica, TPV=1.3 s A=50.0 mu, mPV=5.7, Dc=
	ei	47 26	87.9°.
	ei	48 17	
9	iP	02 54 57.2	C. Costa Rica, TPV=1.5 s A=149 mu, mPV =6.1, Dc=
	i	55 06	88.0°.
9	ei	08 43 47	
	ei	44 40	
9	ePKIKP	15 08 44.8	New Hebrides, Dc=138.7°.
9	eiP	19 02 54.8	Southern Alaska, Dc=69.9°.
	ei	03 02	
9	eiP	20 20 13	Kodiak Island, TPV=0.7 s A=22.2 mu, mPV=5.0, Dc=
	ei	20 19.8	74.0°.
9	eiP	20 29 19.7	Kodiak Island 56.5°N 152.2°W, H=20 17 45, h=34 km (ISC), m=4.7 ISC, Dc=74.0°.
10	eiP	10 45 42.8	Northern Columbia, Dc=82.7°.
	eipP	46 22.7	
10	iP	10 51 41.2	C. Aleutian Islands, TPV=1.0 s A=32.2 mu, mPV=
	i	51 48.7	5.4, Dc=76.2°.
10	ePKIKP	16 54 47	Central Chile, Dc=109.7°.
10	eP	22 39 30.5	Northern California, Dc=82.9°.
11	eiP	06 47 46.3	Dodecanese Island, Dc=16.7°.
11	iP	16 17 35	C. Aleutian Islands, TPV=1.0 s A=20.0 mu, mPV=
			5.2, Dc=77.0°.
		39.6	Afghanistan, TPV=1.0 s A=13.5 mu, mPV=4.6, Dc=
		24.8	41.4°.

Date	Phase	h m s	Remarks
11	eiP	17 30 37.7	C. Mexico, TPV=1.2 s A=68.7 mu, mPV=5.5, Dc=92.1°.
	ei	30 51.5	
11	eiP	18 37 44	Kodiak Island, TPV=0.9 s A=16.0 mu, mPV=5.0, Dc= 73.6°.
11	iP	23 11 58.0	C. Kodiak Island, TPV=1.4 s A=83.3 mu, mPV=5.6,
	i	12 08.0	Dc=74.0°.
12	e	06 45 19	
	ei	45 39.5	
	ei	46 16.5	
	ei	46 19.4	
12	eiPg	12 02 07	D=1.6°.
	eiSg	02 28	
	Lm	02 40	
12	ePn	12 35 39	Alps, Dc=3.6°.
	eiPg	35 50.5	
	eiSg	36 36	
12	eiPKIKP	23 34 57	New Hebrides, Dc=142.6°.
12	eiPKP	23 56 26	Central Chile, Dc=115.8°.
	ei	56 45.5	
	ei	57 20.4	
	ei	57 44	
13	eP	00 43 29.5	Kodiak Island 56.8°N 152.1°W, H=00 31 58, h=33 km (ISC), m=4.2 ISC, Dc=73.7°.
13	eiP	02 23 13	Congo 1.0°N 30.1°E, H=02 14 19.4, h=17 km(ISC),
	ei	23 25.6	m=5.5 ISC, Dc=50.0°.
13	ePKIKP	03 53 54	Chile, Dc=115.6°.
	ei	54 04	
	ei	55 17	
13	iPKIKP	04 46 42.2	Fiji Islands, Dc=152.4°.
	i	46 49.0	
	i	47 03	
	ei	49 01.5	
13	eiP	09 51 58	Uganda 1.2°N 30.3°E, H=09 43 05, h=43 km(ISC), Dc=49.9°.
13	e	12 50 20	
	eiSg	50 34	
	Lm	50 39	
13	e	13 00 34	
	eiSg	00 45	
	Lm	00 52	

Date	Phase	h m s	Remarks
13	eiP	13 11 43.2	Crete 34.5°N 24.0°E, H=13 07 45(ATH), Dc=16.5°.
	ei	12 19.5	
14	e	12 42 25	
	eiSg	42 49	
14	eiPg	13 06 26.2	Dc=0.9°.
	iSg	06 38	
14	ePg	13 55 40	D=78 km.
	eiSg	55 49	
	Lm	55 53	
14	e	13 59 57	
	ei	14 00 27.2	
	eiSg	00 38.2	
14	eiP	14 26 11.2	Nevada, Dc=83.4°.
14	eiP	18 55 32.6	Crete, Dc=16.4°.
	i	55 38.2	
14	eiP	19 09 11.2	Crete, TPV=1.0 s A=16.0 mu, mPV=4.1, Dc=16.5°.
14	eiP	21 14 02.2	Afghanistan, TPV=1.0 s A=35.0 mu, mPV=5.0, Dc=
	ei	15 44	41.3°.
15	eiP	03 17 10.2	Congo 0.8°N 30.0°E, H=03 08 15.5, h=26 km(ISC) m=4.9 ISC, Dc=50.2°.
15	eiP	05 10 08.4	Afghanistan Islands, Dc=78.8°.
15	eiPKP	06 54 21	Tonga Islands, Dc=151.8°.
	ei	54 30.8	
15	eiPg	11 21 43.4	D=72 km.
	eiSg	21 52	
15	e	12 46 10	
	eiSg	46 34	
15	eiP	18 11 55	C. Japan, TPV=0.8 s A=11.0 mu, mPV=5.1, Dc=82.9°.
	ei	12 08	
16	iP	01 38 48.5	C. Kodiak, TPV=1.4 s A=186.5 mu, mPV=5.9, Dc=
	i	39 04.8	73.8°.
	ei	41 45	
16	eiP	10 25 55.8	C. Japon, Dc=84.3°.
	ei	26 07.8	
16	e	10 43 28	
	eiSg	44 06	

Date	Phase	h m s	Remarks
16	eiP	11 43 23	Dominican Republic, TPV=1.0 s A=123.6 mu, mPV= 6.0, Dc=71.9°.
16	e	14 12 11	
	eiSg	12 44	
16	iP	14 52 15	D. Congo, TPV=1.0 s A=27.0 mu, mPV=5.1, Dc=50.2°.
16	eiPKIKP	15 42 17.5	Fiji Islands, Dc=150.6°.
	iPKP1	42 23.8	
	ei	44 23	
17	eiPKIKP	06 57 44	Samoa Islands, Dc=145.5°.
	e	58 08	
17	eP	16 58 26	Queen Charlotte 54.2°N 133.2°W, H=16 46 53.1, h= 33 km(ISC), m=4.9 ISC, Dc=73.3°.
18	e	07 04 12	
	eiSg	04 22.8	
18	eiP	08 22 38.2	Eastern Gulf of Aden, Dc=46.1°.
	ei	23 19	
18	eiP	10 02 12	Greece, Dc=11.8°.
18	e	12 39 56	
	eiSg	40 15.8	
19	eiPg	20 29 49	D=1.2°.
	eiSg	30 05.4	
	Lm	30 15	
19	eiP	20 38 15.2	Kamchatka 53.1°N 159.4°E, H=20 26 45.1, h=84 km (ISC), m=5.0 ISC, Dc=74.1°.
19	eiPKP	22 37 03	Tonga Islands 20.7°S 179.3°W, H=22 18 18.5, h= 589 km(ISC), m=4.4 ISC, Dc=149.9°.
20	ePP	02 50 37	Mariana Islands, Dc=100.4°.
	ei	50 48	
20	ei	06 18 33.7	
20	e	11 39 33	
	eiSg	39 41.7	
20	eiP	14.42 32.8	China, Dc=69.4°.
20	eiPg	14 55 15.7	D=1.5°
	eiSg	55 36	
20	eiP	16 43 46.7	
	ei	44 13.7	

Date	Phase	h m s	Remarks
20	eiP	16 47 30.2	Eastern Caucasus, Dc=25.2°.
	i	47 38.2	
	ei	48 35.5	
21	eiP	04 05 42.7	C. Kazakh, TFV=0.9 s A=49.0 mu, mFV=5.2, Dc=40.7°.
21	eiP	06 49 23.5	Crete, Dc=17.1°.
	ei	50 50.5	
21	e	12 41 27	
21	eiP	15 57 52	Japan, Dc=83.8°.
	ei	58 01	
	ei	58 40.5	
21	eiPKIKP	16 25 45.5	Tonga Islands, Dc=151.2°.
21	eiPKP	16 31 38	Fiji Islands region, Dc=149.9°.
	ei	31 46	
21	eP	16 50 10.5	Taiwan region 24.1°N 122.3°E, H=16 37 47.3, h= 54 km(ISC), m=4.5 ISC, Dc=83.5°.
21	eP	17 49 17.5	Japan, Dc=83.9°.
	ei	49 24	
22	eiP	03 03 03.4	Southwestern Russia, Dc=22.5°.
22	eiP	10 27 23.3	Kodiak Island, TFV=1.0 s A=13.5 mu, mFV=4.9, Dc= 73.7°.
22	eiPg	12 49 04.3	D=1.7°.
	eiSg	49 27.5	
	Lm	49 44	
22	ePn	15 05 45	Explosion of 12 Tons(Germany), D=2.7°.
	eiSg	06 25.2	
22	eiPKIKP	17 13 47.8	Fiji Islands, Dc=147.6°.
	ei	13 51.2	
22	iP	23 38 51.4	D. Kodiak Island, TFV=1.4 s A=[illegible] mu, mFV=6.1,
	i	38 58.0	Dc=73.2°.
23	eiP	00 23 29.5	Celebes, Dc=102.7°.
	ei	26 47.8	
	eiPP	27 37	
	eiPPP	29 55	
23	ei	00 39 33.5	
	ei	39 58.8	
23	eiP	00 47 43.2	
		01 08 43.2	C. Greenland Sea, TFV=1.3 s A=[illegible] mu, mFV=5.1,Dc= 24.6°.

Date	Phase	h m s	Remarks
23	ePKP	03 48 16.3	Tonga Islands, Dc=153.8°.
23	eiPKP2	07 10 35.7	New Zealand, Dc=164.6°.
	ei	10 56.5	
23	ePn	09 01 33	D=1.9°.
	eiPg	01 35.7	
	eiSg	02 01	
23	eiP	09 10 29.2	Northern Celebes, Dc=102.5°.
	ei	14 03.5	
	eiPP	14 45	
23	ePg	10 30 57	D=1.1°.
	eiSg	31 13.2	
	Lm	31 28	
23	eP	11 10 55	Greece, Dc=11.5°.
	ei	11 36	
23	e	16 15 45	
23	eP	18 17 12	Aleutian Islands 52.7°N 168.0°W, H=18 05 10.0, h=19 km(ISC), m=4.5 ISC, Dc=78.5°.
24	eiPKIKP	07 21 05.2	Tonga Islands 21.1°S 178.9°W, H=07 02 22.9, h= 625 km(ISC), m=4.5 ISC, Dc=150.3°.
	ei	21 14.9	
25	eP	08 08 38	Carlsberg Ridge, Dc=57.8°.
25	eiPKP	08 53 31	Tonga Islands, Dc=149.3°.
	ei	53 36	
25	eP	09 32 15.2	Ascension Island, Dc=60.2°.
25	eiPKIKP	11 00 41.4	Tonga Islands, Dc=150.4°.
	iPKP	00 47.6	
	i	00 56.8	
25	eiPg	11 28 55	D=51 km.
	eiSg	29 01	
	Lm	29 05	
25	eiPg	12 41 59.6	D=2.1°.
	eiSg	42 27	
25	ePg	20 24 47	D=68 km.
	eiSg	24 55.2	
	Lm	24 58	
25	e	20 28 54	
25	eiP	23 30 20	Kirghiz SSR, TFV=1.0 s A=8.0 mu, mFV=4.3, Dc= 39.1°.
	ei	31 49.8	

Date	Phase	h m s	Remarks
28	eiPKP2	17 33 20	C. Tonga Islands, Dc=149.7°.
	i	33 38	
28	eP	18 19 11	Carlsberg Ridge, Dc=61.2°.
28	eiP	22 42 22.4	Oregon, Dc=81.5°.
29	iP	01 58 35.0	D. Alaska, TPV=1.2 s A=50.5 mu, mPV=5.5, Dc=77.0°.
	ei	58 43	
29	e	09 40 40	
	eiSg	40 57	
	Lm	41 03	
29	ePg	12 40 24	D=34 km.
	eiSg	40 27.8	
	Lm	40 32	
29	e	17 25 34.5	
29	ei	22 54 36	
	ei	55 37.5	
	ei	56 10.5	
29	eiP	23 15 21.5	Kamchatka, TPV=1.1 s A=17.5 mu, mPV=5.0, Dc=75.1°.
30	ePg	09 33 09	Dc=1.1°.
	eiSg	33 23	
	Lm	33 35	
30	eiP	13 48 54.8	C. Kirghiz, TPV=0.8 s A=27 mu, mPV=5.0, Dc=41.0°.

Date	Phase	h m s	Remarks
26	eiP	05 46 35.3	Turkey, Dc=21.1°.
26	eP	10 56 20	Burma, Dc=67.1°.
26	eSg	13 06 57	Poland, Dc=3.6°.
26	eiPg	13 54 19	D=76 km.
	eiSg	54 28	
26	eiPKIKP	19 52 47	Tonga Islands, Dc=149.5°.
	eiPKP2	52 54	
26	eiPKP	23 26 38.5	Tonga Islands, Dc=150.4°.
27	eP	00 44 19	Kurile Islands, Dc=78.0°.
27	eiSg	12 15 35.4	
	Lm	15 37	
27	e	13 11 39	
	eiSg	12 25	
27	ePg	17 30 48	D=2.2°.
	eiSg	31 16	
27	eiP	19 53 59.3	Turkey, Dc=23.5°.
	i	54 04	
	i	54 53	
	ei	56 46	
27	ePKP	21 52 20	Fiji Islands, Dc=153.7°.
	ei	52 35.5	
28	eiPKP	00 36 37.5	Fiji Islands, Dc=151.0°.
28	ePg	01 15 21	D=1.2°.
	eiSg	15 36.8	
	Lm	15 46	
28	eiPKP2	01 36 16.2	Auckland Islands, Dc=160.9°.
28	ePg	04 25 56	D=1.3°.
	eiSg	26 12.8	
	Lm	26 21	
28	eP	10 52 07.2	Mexico 15.8°N 95.1°W, H=10 39 12, h=23 km(ISC),
	ei	52 10.8	m=4.9 ISC, Dc=89.9°.
28	eP	11 50 20	Greece, Dc=11.6°.
28	iPg	13 00 16.8	D=13 km.
	iSg	00 18.3	
28	eiPKIKP	17 16 09	C. Tonga Islands, Dc=149.6°.
	ei	16 46.5	

Date	Phase	h m s	Remarks
1	ePKIKP	11 09 41	New Ireland 4.5°S 153.4°E, H=10 50 54.0, h=108 km (ISC), m=5.0 ISC, Dc=124.0°.
1	eiP ei	16 36 02 36 35	D. Peru - Brazil, TPV=1.4 s A=81.0 mu, mPV=5.9, Dc=94.9°.
1	eP	18 43 17	Japan, Dc=87.6°.
1	eiP	22 32 29.8	North Atlantic Ridge, Dc=52.1°.
1	eP	22 41 26	Costa Rica 9.2°N 84.0°W, H=22 28 44.1, h=71 km(ISC), m=4.5 ISC, Dc=88.0°.
2	eSg	02 05 25	Poland, Dc=3.6°.
2	eiPKIKP	10 11 41	New Britain, Dc=123.3°.
2	eiPKIKP iPKP2 i	11 12 09.2 12 13 12 17.2	Tonga Islands. Dc=147.6°.
2	eiPg eiSg	11 30 27.5 30 48	Explosion of 19 Tons, Dc=162 km.
2	ePKIKP	12 26 47.5	Fiji Islands 22.1°S 179,5°W, H=12 07 54.6, h=532 km(ISC), m=4.0 ISC, Dc=151.1°.
2	ei eiSg	12 39 24.5 39 39.2	
2	ei eiSg	12 39 24.5 39 39.2	
2	eiP	13 56 51	Turkey, Dc=23.6°.
2	eiP ei	14 00 13 01 01.2	Turkey, Dc=23.6°.
2	e eiSg	15 18 09 18 15	
2	eiPP	16 57 40	Bali Island, Dc=103.8°.
2	e eiSg Lm	18 17 51 18 05 18 13	
2	eP	20 45 56	Turkey 38.1°N 42.7°E, H=20 40 44.1, h=49 km(ISC), Dc=23.8°.
2	eiP	23 17 31.4	Turkey, Dc=23.5°
2	eP	23 33 29	Aleutian Islands 52.2°N 175.1°E, H=23 21 33, h=85 km(ISC), m=4.2 ISC, Dc=77.8°.

Date	Phase	h m s	Remarks
3	eiP	04 10 47.7	
3	eSg	08 57 57	
3	ei	12 45 25	
3	eiSg Lm	13 02 09 02 13	
3	eiPg eiSg	13 21 41.3 22 01	D=1.5°.
3	eiPKIKP	19 27 28.2	Australia 37.1°S 147.2°E, H=19 07 54, h=24 km(ISC), m=4.3 ISC, Dc=144.6°.
4	eiP ei ei ei	06 39 47.6 40 25 42 13.2 44 15.4	Greece, Dc=11.7°.
4	eiP	07 41 45.5	Greece, Dc=11.7°.
4	e eiSg Lm	11 01 40 01 42 01 44	
4	eiPKIKP ei	11 05 23.6 05 37.7	Tonga Islands, Dc=147.9°.
4	e(P)	18 26 51.5	Nicaragua 12.7°N 87.7°W, H=18 13 58.6, h=88km(ISC), m=5.1 ISC, Dc=87.7°.
4	eiPKIKP eipPKP2	20 38 33 39 07.5	C. Tonga Islands, Dc=146.7°.
4	eiP ei	21 52 38.2 53 03	Turkey, Dc=15.3°.
5	iP ei	06 51 08.0 51 24.4	C. Aleutian Islands 51.6°N 176.7°E, H=06 39 05, h=13 km(ISC), m=5.0 ISC, Dc=78.6°, TPV=1.3 s A=21.5 mu, mPV=5.0.
5	eiP	07 46 10.8	
5	eiPg eiSg	08 59 54.5 09 00 08.8	Explosion, D=1.1°.
5	ei	10 44 38	
5	e eiSg	10 56 14 56 28.5	
6	eiP	00 19 26.4	India, Dc=66.7°.

Date	Phase	h m s	Remarks
6	iP	02 47 49.2	D. Malawi, Dc=67.2°.
	i	47 54	
6	eiP	04 05 20.7	Taiwan, Dc=84.1°.
6	eiPKIKP	07 33 07.5	Fiji Islands, Dc=153.5°.
	ei	33 16	
6	e	09 41 17	
	eiSg	41 37	
	Lm	41 47	
6	eiSg	11 30 32	
	Lm	30 41	
6	e	12 58 37	
	eiSg	58 47	
6	eiP	15 12 28.5	Nevada, Dc=83.1°, TPV=1 s A=11 mu, mPV=5.0.
6	ei	16 12 18	
6	eiPKP2	20 13 26.5	Tonga Islands, Dc=149.7°.
	i	13 29.2	
7	ePn	00 02 18	Yugoslavia, Dc=6.7°.
	ei	02 41	
	eiSn	03 30	
7	eiPn	00 40 50	Italy, Dc=6.3°,
	ei	41 14.5	
	ei	41 47.6	
	i	42 21	
7	eiPKP	05 28 53.5	Fiji Islands, Dc=150.9°.
7	eiPg	09 00 46.1	D=1.8°.
	eiSg	01 10	
7	ePg	10 42 22	
	e	42 35	
7	eiPg	11 01 40.6	D=2.5°.
	ei	01 45.1	
	eSg	02 13.6	
7	eiP	11 28 10.5	Utah, Dc=81.0°.
7	eiPg	12 58 25	D=2.6°.
	ei	58 30.6	
	ei	58 41.5	
	eiSg	59 01.5	
7	eiP	13 11 54.5	Turkey, Dc=15.3°.
	i	11 59.5	
	i	12 46.3	
	ei	15 01	

Date	Phase	h m s	Remarks
7	e	19 23 39	Poland, Dc=3.6°.
	eiSg	24 22	
7	eiP	22 13 03.5	Black Sea, Dc=16.8°.
8	eiP	01 37 21.8	D. Kurile Islands, TPV=1.2 s A=21 mu, mPV=5.0,
	eiPcP	37 34.2	Dc=79.1°.
8	eiP	03 51 33	Greece, Dc=11.7°.
8	eiP	08 42 00.7	Kurile Islands, Dc=79.1°.
9	iP	00 46 56.5	C. Crete, Dc=17.5°.
	eiS	50 19	
9	eiP	03 09 59	Japan, Dc=80.4°.
9	iP	03 55 06.7	C. Turkey, Dc=17.5°.
	ei	55 27.5	
9	eP	04 39 50	Turkey, Dc=23.3°.
	e	40 48.7	
9	eiP	06 12 32	Crete, Dc=17.6°.
9	eiPn	10 13 05	Italy, Dc=5.6°.
	ei	13 41	
	eiSn	14 07.5	
9	iPg	14 35 52	D=1.4°.
	iSg	36 09.5	
9	eiPKIKP	15 34 48	Tonga Islands, Dc=145.8°.
9	eiPKIKP	16 52 49	Tonga Islands 15.3°S 173.9°W, H=16 33 14, h= 33 km(ISC), m=4.3 ISC, Dc=145.7°.
9	iPg	18 05 43.9	D=1.8°.
	i	06 04.9	
	eiSg	06 07.4	
9	eiPKIKP	20 25 52.5	Tonga Islands, Dc=145.9°.
	i	25 57.5	
9	iPKIKP	21 50 17.3	D. Tonga Islands, Dc=145.4°.
9	eiPKIKP	23 27 57	Tonga Islands 15.2°S 174.3°W, H=23 08 25, h=71 km (ISC), m=145.6°.
10	eiP	02 51 47.2	Crete, Dc=17.6°.
10	ePKIKP	05 51 55	New Hebrides 16.5°S 167.3°E, H=05 32 26.2, h= 28 km(ISC), m=4.8 ISC, Dc=141.0°.
10	ei	06 48 03.1	

Date	Phase	h m s	Remarks
10	eiP	10 20 56.6	Japan, Dc=78.8°.
10	eiPKIKP	20 41 59.5	Tonga Islands 15.3°S 173.7°W, H=20 22 23.9, h= 33 km(ISC), m=4.5 ISC, Dc=145.7°.
10	eiP ei eiPP	21 13 12.2 13 57 15 15	D. USSR - Mongolia, TPV=1.2 s A=23 mu, mPV=5.0, Dc=51.3°.
11	eiP ei	01 26 55 27 14	Crete, Dc=17.5°.
11	e	01 39 09	
11	eP eiPP	02 01 58 03 38	Afghanistan, Dc=43.4°.
11	eiP	10 25 47.4	Crete 34.3°N 26.4°E, H=10 21 41.8, h=6 km(ISC), Dc=17.6°.
11	ei(Pg) ei(Sg)	12 48 19 49 23	
11	eiP iPcP ei	14 29 29.5 29 42.6 31 43.5	C. Kurile Islands, TPV=1.0 s A=140 mu, mPV=6.0, Dc=77.2°.
11	iP eiPP	14 38 34.5 41 37.5	C. Kurile Islands, TPV=1.2 s A=141 mu, mPV=6.0,
11	eiP ei ei	15 10 04.1 10 40 13 26	D. Crete, TPV=1.5 s A=28 mu, mPV=4.2, Dc=17.5°.
11	eiP ei	18 12 24 12 37	D. Kurile Islands, TPV=1.2 s A=23 mu, mPV=5.2, Dc=77.3°.
11	eiP	18 25 06	
11	eiPg eiSg	19 23 07 23 24	D=1.3°.
11	eiPg eiSg	19 45 30.5 45 46.5	D=1.3°.
11	iP iPcP	21 51 28.5 51 40.5	C. Kurile Islands,TPV=1.2 s A=172 km, mPV=6.1, Dc=77.3°.
12	eiPKP	01 35 51.5	Fiji Islands, Dc=150.5°.
12	ei	02 53 21	
12	eiPg iSg	04 16 54.6 17 04.1	D=1.3°.

Date	Phase	h m s	Remarks
12	eiPg eiSg	04 51 53.7 52 07.2	D=1°.
12	iPg i i	09 59 41.7 59 52.2 59 54.2	Explosion?
12	eiP ei	11 51 05.5 52 54	China, Dc=45.6°.
12	eiP eiPcP	12 28 54 29 06.5	Kurile Islands, TPV=1.0 s A=25 mu, mPV=5.3, Dc= 77.1°.
12	eiPg eiSg	12 45 21.6 45 36.6	D=1.1°.
12	eP ei	20 34 16 34 22	Aegean Sea, Dc=13.7°.
13	iPg iSg	09 00 47.2 01 11.2	D=1.8°.
13	eP	10 20 19	Mediterranean Sea, Dc=17.7°.
13	eiPKIKP	11 10 23.8	Tonga Islands, Dc=145.9°.
13	eiPg eiSg	11 44 51.5 44 59.5	D=68 km.
13	e iSg	12 00 27 00 58.5	
13	e eiSg	12 49 22 49 54	
13	ei eiSg	12 50 27.2 50 49	
13	eiPg ei eiSg	12 51 31 51 49 51 57.5	D=2°.
13	ei	13 09 37	Crete, Dc=17.5°.
13	eiP ei	13 15 52.5 16 04	Crete, TPV=2.0 s A=81 mu, mPV=4.5, Dc=17.5°.
13	eiP	13 42 28	C. Nevada, T=1.3 s A=47 mu, mPV=5.6, Dc=83.2°.
13	eiP	14 11 11	Kurile Islands, Dc=76.6°.
13	eiP	14 31 18.2	C. Kurile Islands, TPV=1.0 s A=24 mu, mPV=5.3, Dc=76.7°.
13	iPg iSg	14 43 21.2 43 39.2	D=1.4°.

Date	Phase	h m s	Remarks
19	eiP ei	14 08 56.4 09 49.2	C. Nevada, TPV=1.2 s A=63 mu, mPV=5.7, Dc=83.2°.
19	eiPg eiSg Lm	16 00 29.2 00 40.2 01 06	D=1.6°.
19	e	17 50 50	
19	eiPn eiPg eiSn ei	22 22 48 23 15.2 23 50.2 24 20	Italy, Dc=5.0°.
19	ePKIKP	23 27 08	New Hebrides 17.4°S 168.6°E, H=23 08 04.4, h=209 km (ISC), m=4.7 ISC, Dc=142.4°.
20	eSg Lm	00 41 38 41 47	
20	eiPn ei ei eiSg Lm	00 55 38 56 25 58 10.8 59 10 59 34	France, D=11.2°, Dc=11.1°.
20	eiP	03 06 23	Ryukyu Islands, TPV=1.3 s A=26 mu, mPV=5.3, Dc=85.8°.
20	eiPg eiSg	05 13 25.4 13 56.4	D=2.4°.
20	eiPn eiPg eiSn	07 38 57.8 39 07.4 39 51.8	Poland, D=3.7°, Dc=3.7°.
20	eiP	07 49 31.6	
20	eiPg iSg	09 00 52.8 00 56.8	Dc=34km.
20	eiP	09 23 13.2	Crete, Dc=17.6°.
20	e eiPKP	09 32 12.8 33 03	Mariana Islands, Dc=104.7°.
20	ePg eiSg Lm	10 19 39 19 46.8 19 52	D=68 km.
20	eiP	11 56 04.4	Komandorsky Islands, Dc=73.7°.
20	e eiSg Lm	15 35 15 35 25.5 35 31	

Date	Phase	h m s	Remarks
20	eiP	18 15 17	Philippine Islands, TPV=1.5 s A=32 mu, mPV=5.3, Dc=87.0°.
20	eP	20 16 59.8	Kirgizya, Dc=42.2°.
21	eP	00 10 37	Vancouver Island, Dc=76.2°
21	eP	02 27 25	Mediterranean Sea 34 1/4° N 27 1/4° E, H=03 23 13 (ATH), Dc=18.0°.
21	eiPKIKP ei eiPKP2 eipPKP2	08 27 21 27 29.4 27 44 29 33	C. Fiji Islands, Dc=153.0°.
21	eiPKP eipPKP	11 10 45.8 11 03.4	C. Tonga Islands, Dc=151.0°.
21	e eiS	12 41 16 42 14.5	
21	eP	22 17 33	Greece, Dc=13.2°.
21	eiPKP	22 58 21.2	New Hebrides, Dc=144.2°.
22	eiPKP	00 12 32	Tonga Islands, Dc=147.5°.
22	eiPKIKP	03 11 10.2	Solomon Islands, Dc=127.6°.
22	eiP ei ei	07 40 56 41 03 45 09.2	Turkey, Dc=14.6°.
22	eiP	11 18 34	Greece 39.0°N 21.2°E, H=11 15 44.2, h=20 km(ISC), Dc=11.5°.
22	eiP	20 20 54	Crete, Dc=17.6°.
23	ePKIKP	00 21 44	Salomon Islands 7.4°S 155.5°E, H=00 02 49, h=109 km (ISC), m=5.2 ISC, Dc=127.6°.
23	eP	01 34 59	North Atlantic Ocean, Dc=29.7°.
23	eiPKP	02 34 08.2	Tonga Islands 20.4°S 173.3°W, H=02 14 16.5, h=33 km(ISC), m=4.5 ISC, Dc=150.8°.
23	eiPKIKP ei	06 18 32 18 39.4	Tonga Islands, Dc=146.1°.
23	eiPKIKP	06 07 12.2	Tonga Islands, Dc=147.2°.
23	eiP	08 52 31.8	Japan, Dc=87.8°.
23	e ei	14 40 42.5 41 26.5	Marianas Islands, Dc=104.6°.

Date	Phase	h m s	Remarks
23	e	16 50 58	
24	eiPg eiSg	05 06 45,2 07 12.4	D=2.1°.
24	e	07 36 46	
24	eiP i ei	09 42 33.5 42 48 43 32.2	C. Greece, Dc=13.2°.
24	eiP	11 12 32	Greece, Dc=13.2°.
24	e ei	12 33 43 34 42.8	
24	ePg eiSg	12 41 59 42 13	D=1.1°.
24	eiP	14 50 12.8	Crete, Dc=17.6°.
24	eiPKIKP eiPKP2	15 48 52.5 49 18	Fiji Islands, Dc=154.8°.
24	ePg eiSg Lm	16 32 40 32 54.4 33 03	D=1.1°.
24	eiP ei	17 47 23.1 47 41.5	Crete, Dc=16.4°.
24	eiPg eiSg	17 52 43.5 53 08.4	D=1.8°.
25	eiP	01 07 58.5	Crete, Dc=16.3°.
25	eiPKIKP ei	08 47 30.8 48 15.4	Taninbar Islands, Dc=112.6°.
25	eiPn iPg eiSg	09 09 17.8 09 53.0 12 23.4	Albania, Dc=9.9°.
25	ei	12 19 37.5	
25	eiPKIKP	12 26 42.4	Loyalty Islands, Dc=146.7°.
25	e eiSg	12 45 00 45 24	
25	eiPg eiSg Lm	12 59 29 59 42.4 59 49	D=1.1°.
25	eiPg	13 14 53 15 07.4	D=1.1°.

Date	Phase	h m s	Remarks
25	eiPKIKP eiPKP2 eiPP	13 40 49.4 41 26.4 45 06.3	C. Macquarie Islands, Dc=158.8°.
25	e eiSg	15 18 16 18 38	
25	eiPg iSg Lm	16 03 02.8 03 10.5 03 14	D=64 km.
26	eiPKIKP	00 40 36.3	Tonga Islands, Dc=147.0°.
26	eiP	03 09 42.2	Kurile Islands 48.2°N 154.5°E, H=02 57 51.9, h= 52 km(ISC), m=4.6 ISC, Dc=77.3°.
26	iPn iSn eSg	08 11 49.8 12 25.4 12 36	Austria, Dc=2.8°.
26	ePg eiSg	10 18 32 18 51	D=1.4°.
26	eiP	10 38 25	Crete, Dc=17.0°.
26	eiPg eiSg Lm	11 00 51 00 55.2 00 57	D=34 km.
26	eiPg eiSg	12 01 40.5 02 02.6	Explosion of 10.3 Tons, Dc=160 km.
26	eiSg Lm	12 32 39 32 42	
26	eiP	12 37 32.2	Lake Tanganyika 3.7°S 29.1°E, H=12 28 04.1, h= 0 km(ISC), Dc=54.3°.
26	e ei ei	12 41 33 41 50.5 42 17.6	
26	eiPKIKP eiPKP2	12 45 23.2 45 48.4	Fiji Islands, Dc=154.3°.
26	ePg	13 01 12	D=85 km. eiSg 01 22.
26	ePn ei ei	17 58 16 58 35 59 46.6	Italy, Dc=5.8°.
26	e ei ei ei	18 08 24.5 08 43.5 09 27.2 10 07	Italy, Dc=5.8°.
26	eiPKIKP iPKP2	18 49 27.2 49 34	C. Tonga Islands, Dc=151.0°.

Date	Phase	h m s	Remarks
26	ePKP	19 23 09	Loyalty Islands 21.7°S 169.7°E, H=19 03 29.6, h=33 km(USCGS), Dc=146.7°.
26	eiP ei	23 11 34.5 11 41.5	Ryukyu Islands, Dc=84.7°.
27	ePKIKP	05 15 17	New Hebrides 20.1°S 170.1°E, H=04 55 39.9, h=21 km(ISC), Dc=145.5°.
27	eiPg eiSg	12 46 26.4 46 51	D=1.9°.
27	ei iSg	12 59 21 59 23.4	
27	eiPg iSg	13 29 33 29 51.8	D=1.4°.
27	ePn eiPg iSg	14 05 38 05 41 06 10.8	D=2.4°. Explosion of 7 Tons. Eschenlohe.
27	ei	15 50 53.6	
27	eiPg eiSg	16 00 28.5 00 47	D=1.4°.
27	ei ei ei	17 36 08.6 36 53.8 37 20	
27	eP ei	19 08 51 09 03.8	Svalbard, Dc=34.0°.
27	eiP	22 19 48	D. Aleutian Islands, Dc=79.1°.
27	eiP	22 23 05.7	Pakistan, Dc=49.2°.
28	eiP ei	00 16 22 16 40.6	C. Taiwan, Dc=83.5°.
28	eiPKP2 eipPKP2	02 28 53 30 59.8	Fiji Islands, Dc=151.2°.
28	eP	05 33 42	Japan, Dc=81.5°.
28	eP	06 05 55	Ryukyu Islands, Dc=85.3°.
28	eP	07 33 13	Ryukyu Islands 28.6°N 130.3°E, H=07 20 38, h=7 km (ISC), m=4.5 ISC, Dc=84.3°.
28	eP	20 45 20	Mid-Atlantic Ridge 7.3°N 34.5°W, H=20 35 27.8, h=33 km(ISC), m=4.4 ISC, Dc=58.0°.
29	eP	22 02 16	Aleutian Islands, Dc=79.2°.

Date	Phase	h m s	Remarks
28	eiPKIKP	22 42 30.8	New Ireland 4.5°S 153.5°E, H=22 23 44.6, h=116 km (ISC), m=5.3 ISC, Dc=124.0°.
29	eP	04 07 53	Kurile Islands 46.6°N 153.1°E, H=03 55 55.9, h=51km(ISC), m=4.4 ISC, Dc=78.4°.
29	eiPKIKP i iPKP2 ei	14 03 21 03 27.0 03 37.7 05 30.5	D. Tonga Islands, Dc=150.8°.
30	eiP	03 22 07.5	C. Panama - Colombia, TPV=1.0 s A=21 mu, mPV=5.3, Dc=84.7°.
30	eiSg Lm	14 50 59.4 51 04	
30	eP	14 58 17	Jan Mayen, Dc=24.1°.
30	eiPKIKP	19 40 07.5	Tonga Islands, Dc=145.6°.
31	eiP ei	07 55 02.3 55 13.6	C. Aleutian Islands, Dc=79.0°, TPV=1.2s A=22 mu, mPV=5.1.
31	eiPg eiSg Lm	12 38 45 38 50.2 38 53	D=52 km.
31	eSg Lm	12 40 47 40 54	
31	eiPg iSg	13 00 09.8 00 21.6	D=1.6°.
31	e eiSg Lm	14 00 10 00 32.6 00 50	
31	eiPKIKP	19 10 33	New Hebrides 19.4°S 168.2°E, H=18 51 02.6, h=33 km (ISC), m=4.8 ISC, Dc=144.0°.

Date	Phase	h m s	Remarks
1	eiP	02 45 39.7	C. Aleutian Islands, Dc=78.6°.
1	eiPKIKP	04 07 41.5	New Britain, Dc=123.9°.
1	eiPKIKP	10 34 04.7	New Hebrides, Dc=138.3°.
	ei	34 18.3	
	eiPKS	37 39	
1	eiPKIKP	12 07 23	D. Tonga Islands, Dc=153.5°.
	iPKP2	07 43.7	
	ei	08 26.5	
	eiPP	11 06	
1	e	12 44 20	
	ei	44 41.5	
	eiSg	45 06.8	
1	eiPKIKP	12 53 52.5	New Hebrides, Dc=139.9°.
	ei	54 21	
	ei	56 24	
	ei	57 22.7	
1	e	14 41 49	
	eiSg	41 53.5	
	Lm	41 56	
1	e	20 10 04	
	eiSg	10 11.7	
2	eiPKIKP	03 04 28.2	New Hebrides 19.2°S 167.8°E, H=02 44 53, h=10 km (ISC), m=5.0 ISC, Dc=143.7°.
2	iP	03 39 55.4	D. Aleutian Islands, TPV=1.4 s A=250 mu, mPV=6.0, Dc=79.1°.
	iPcP	40 09.7	
	ei	40 32	
	eiPP	42 50.7	
2	eiPg	07 16 28.8	D=1.2°.
	eiSg	16 44.8	
	Lm	16 54	
2	ei	07 26 09	
	ei	26 44.7	
2	eiPKP2	08 03 04	North Island, Dc=164.3°.
	ei	03 10	
2	eiP	08 34 56.5	Aleutian Islands 52.9°N 166.9°W, H=08 22 56.0, h=29 km(ISC), m=4.3 ISC, Dc=78.4°.
2	ei	12 57 07.6	
2	ei	14 42 33	
	ei	44 25	
		42 28	C. Nevada, TPV=1.1s A=29 mu, mIV=5.4, Dc=83.1°.

Date	Phase	h m s	Remarks
2	eiPKP	17 13 44.5	Tonga Islands, Dc=149.2°.
	ei	14 15.7	
2	eiP	18 42 21	C. Gibraltar, TPV=1.2 s A=22 mu, mPV=4.3, Dc=19.9°.
2	eiP	22 54 55.4	Turkey, Dc=14.5°.
	ei	55 12.6	
3	e	03 17 13	Austria, Dc=2.4°.
	eiSg	17 44.6	
3	eP	07 23 37.5	Congo 0.6°N 29.3°E, H=07 14 43.0, h=33 km, Dc=50.2°.
3	eiPg	10 23 26	D=1.1°, Explosion.
	iSg	23 41.0	
3	eiP	10 33 51.4	
3	ei	12 42 57.5	
3	e	12 57 56	
	ei	58 44	
3	eiPKIKP	14 07 49.2	Tonga Islands, Dc=147.3°.
3	iP	14 12 28.4	C. Nevada, TPV=1.2 s A=54 mu, mPV=5.7, Dc=83.2°.
	ei	12 54.7	
	ei	12 21.7	
3	e	14 29 34	
	eiSg	29 55.5	
	Lm	29 06	
3	e	14 49 16	Japan, Dc=83.2°.
3	ePg	20 30 52	D=1°.
	eiSg	30 04.2	
	Lm	30 11	
4	eiP	05 19 34	C. Hindu Kush, TPV=1.2 s A=31 mu, mPV=4.9, Dc=42.8°.
	eiPP	21 16.8	
	eiPPP	22 15.2	
4	eiP	06 20 07.7	D. Mediterranean Sea, Dc=13.6°.
	ei	20 26.4	
	ei	22 26.7	
4	eiP	08 56 12	
4	eiPKPP	11 42 10	Tonga Islands, Dc=145.9°.
4	e	12 40 49	
	ei	41 22	
4	eiSg	12 43 33	

Date	Phase	h m s	Remarks
4	eiSg	12 44 33	
4	eiPKP2	21 58 24	Kermadec Islands, Dc=158.7°.
5	iP	00 00 17.0	C. Kurile Islands, TPV=1.2 s A=119 mu, mPV=5.9, Dc=78.4°.
	iPcP	00 31.2	
	ei	01 37	
	ei	03 06.7	
	ei	)4 27	
5	e	02 24 53.5	Svalbard, Dc=31.6°.
	ei	25 04.7	
5	eiP	09 17 36.5	Turkey, Dc=15.1°.
	ei	17 44	
5	eP	20 55 11	Greece, Dc=13.3°.
	ei	57 14.5	
6	ePKP	02 05 03	New Hebrides 15.0°S 167.9°E, H=01 45 43, h=22 km (ISC), m=5.4 ISC, Dc=140.0°.
	ei	08 07	
	ei	08 33.2	
6	e(Sg)	02 37 31	Poland, Dc=3.8°.
6	iP	07 53 56.5	C. Afghanistan, TPV=1.2 s A=287 mu, mPV=5.7, Dc=43.1°.
	ipP	54 44.7	
	i	59 53.5	
6	eiP	21 00 41.2	C. Philippine Islands, TPV=1.2 s A=20 mu, mPV=5.6, Dc=97.3°.
	ei	00 50.2	
	ei	03 53	
7	eiP	01 13 32.5	C. Peru, Dc=100.7°.
	ei	13 45.2	
	ePP	17 32	
7	eiP	05 57 08	
7	ei	09 33 58.8	
	ei	35 53	
	ei	37 15	
7	ePg	09 44 55	D=1.5°.
	eiSg	45 15.7	
7	ePg	10 14 21.2	D=1.5°.
	eSg	14 40.2	
	Lm	14 46	
7	eiP	11 57 16	Taiwan region, Dc=83.5°.
	ei	57 36	
		3 42 31.5	
		42 37	

Date	Phase	h m s	Remarks
7	iP	14 13 32.5	C. Caroline Islands, TPV=1.5 S A=145 mu, mPV=6.5, Dc=103.4°.
	ei	16 46	
	eiPP	17 50.2	
7	eiP	15 28 28	Peru, Dc=100.8°.
7	eiPKIKP	19 24 32	D. Tonga Islands, Dc=150.5°.
	iPKP2	24 42	
	eipPKP2	26 52	
8	e	02 57 56	
8	e	06 18 08	
	eSg	18 26.5	
8	eiP	06 36 26	D. Kurile Islands 46.5°N 152.7°E, H=06 24 30.0, h=59 km(ISC), m=4.4 ISC, Dc=78.4°.
8	eiP	10 58 37.5	Taiwan, Dc=83.6°.
8	ePg	12 45 56	D=1.9°.
	eSg	46 20.7	
8	eiSg	12 54 54.7	
	Lm	54 57.5	
8	e	16 00 57	
	eiSg	01 35.7	
8	iP	20 08 11.7	C. Aleutian Islands, TPV=1.1 s A=126 mu, mPV=6.0, Dc=76.3°.
	i	08 19.5	
	ei	11 03.2	
9	eiP	00 24 05.7	Nicobar Islands, Dc=77.9°.
	ei	24 30	
9	iP	02 09 19.0	C. Kurile Islands, TPV=0.8 s A=27 mu, mPV=5.4, Dc=77.8°.
9	ei	03 16 13	
	ei	16 22	
	e	16 49	
	ei	17 03.5	
9	e	03 28 27	
	ei	29 06.7	
	ei	29 56.5	
9	eiPg	04 40 14.5	D=1°.
	i	40 17.5	
	iSg	40 17.5	
	Lm	40 20	
9	ei	07 05 29	Severnaya Zemlya, Dc=40.6°.

Date	Phase	h m s	Remarks
9	eiP	13 20 16.5	Japan, Dc=80.3°.
9	eiPn	14 18 22	**Switzerland D = 5.1°, Dc = 5.1°.**
	ei	18 30.5	
	eiPg	18 49	
	ei	19 16.7	
	iSg	19 48.2	
9	iP	15 51 19.8	D. Kurile Islands, Dc=78.7°, TPV=2 s A=300 mu, mPV=5.8°.
	ei	51 56	
	eiPP	54 18	
9	eiP	22 29 16.7	C. Japan, Dc=88.8°.
9	eiP	22 31 49.5	Persia, TPV=1.3 s A=21 mu, mPV=4.7, Dc=36.8°.
	ei	32 52	
10	eiP	04 37 12.2	Aleutian Islands, Dc=77.9°.
	ei	37 24	
10	ePn	09 14 14	**Rumania,** Dc=8.9°.
	eiPg	14 57.5	
	ei	15 02.7	
	ei	16 29	
10	eiP	10 52 47	North Atlantic Ridge, Dc=28.3°.
10	eiPg	13 59 56.8	D=1.6°.
	eiSg	14 00 18	
10	eiP	14 20 37.5	Japan, Dc=80.6°.
	ei	20 47.2	
10	eiP	14 23 42	Alaska, Dc=73.4°.
10	ePg	14 46 10	Explosion of 6.7 Tons, Dc=3.5°.
	eiSg	46 54	
10	eiP	19 23 09.5	Aleutian Islands, Dc=77.3°.
10	eiP	21 47 41	Kurile Islands, Dc=78.9°.
10	eiP	22 22 36.5	North Atlantic Ridge, Dc=42.5°.
10	eiP	22 51 23	Mongolia, Dc=55.6°.
10	eP	23 36 12	Norwegian Sea, Dc=24.1°.
11	eiP	03 13 25	Taiwan, Dc=82.4°.
11	eiPg	08 52 10.4	Explosion of 15 Tons, Dc=50 km.
	eiSg	52 15.9	
	ei	52 18.4	
	Lm	52 21	

Date	Phase	h m s	Remarks
11	eiP	10 24 41	Greece, Dc=11.7°.
	i	24 43	
	ei	26 48	
	ei	27 48	
	Lm	30.7	
11	eiP	11 33 50	Aleutian Islands, 53.4°N 167.6°W, H=11 21 51, h= 63 km(ISC), m=4.9 ISC, Dc=77.8°.
11	eP	12 08 02.5	Greece, Dc=12.9°.
	ei	08 08.5	
	ei	10 52	
	e	13 09	
11	eiP	18 25 41.2	Aleutian Islands, Dc=79.2°.
	e	26 31	
12	eiP	00 55 27	Japan, Dc=81.4°.
12	eiPg	09 20 14.5	D=1.5°.
	eiSg	20 34	
	Lm	20 46	
12	eiP	20 31 27	D. Atlantic Ocean, Dc=63.2°.
12	eiP	23 25 30.5	C.
13	eP	01 10 38.5	Persia 32.1°N 54.4°E, H=01 03 51.0, h=48 km(ISC), Dc=34.9°.
13	ePKP	04 19 44	Tonga Islands, Dc=147.4°.
13	eiPKIKP	07 52 54.3	C. New Hebrides, Dc=148.1°.
	ei	53 05	
13	e	10 08 27	
13	eiP	13 24 53	Greenland Sea, Dc=24.4°.
13	ePg	14 48 21	D=1.5°.
	eiSg	48 41	
13	eiPKIKP	18 27 22.7	D. Santa Cruz Islands, Dc=137.1°.
	iPKIKP	27 32.5	
	eiPP	30 13	
	eiSKP	30 46.5	
	ei	31 08	
13	eiP	19 12 21	
14	eiP	02 51 06.4	Turkey, Dc=23.7°.
		51 25	
14	ePKP	02 57 22	C. Tonga Islands, Dc=150.2°.
	ei	57 25.8	

Date	Phase	h m s	Remarks
14	eiP	03 25 48	Mid Atlantic Ridge 0.2° S 19.1°W, H=03 16 02, h= 2 km(ISC), m=4.5 ISC, Dc=56.6°.
14	e	11 30 27	
	eiSg	30 29	
	Lm	30 30	
14	eiP	12 04 55.2	Mid Atlantic Ridge, Dc=59.1°.
14	e	12 51 43	Explosion in Germany.
	ei	52 13	
	Lm	52 36	
14	eiPg	13 00 06	D=98 km.
	eiSg	00 17.5	
14	eiSg	15 59 43	
	Lm	59 51	
14	ei	16 57 31.5	
14	eiP	21 15 48.8	Japan, TPV=1.3 s A=21 mu, mPV=4.8, Dc=86.7°.
	eipP	17 25	
14	eP	23 59 35	Congo 1.1° N 30.0°E, H=23 50 41.9, h=33 km(ISC), m=5.2 ISC, Dc=49.9°.
15	eiPKIKP	01 18 58	Solomon Islands, Dc=132.8°.
	eiPP	21 27	
	ei	22 29	
	ei	23 45	
15	eiPKIKP	01 52 06.5	Solomon Islands, Dc=132.6°.
15	eiPKIKP	03 22 46.5	Solomon Islands, Dc=132.6°.
15	ePKIKP	04 00 30	Solomon Islands 10.6°S 161.2°E, H=03 41 18.0, h= 52 km(ISC), m=4.8 ISC, Dc=133.1°.
15	ePKIKP	04 03 10	Solomon Islands 10.5°S 161.1°E, H=03 43 57, h= 42 km(ISC), m=4.8 ISC, Dc=133.0°.
15	ePKIKP	04 46 10	Solomon Islands 10.6°S 161.1°E, H=04 26 52, h= 23 km(ISC), m=5.0 ISC, Dc=133.0°.
15	e	05 47 05	
	ei	47 34	
15	ePKIKP	06 33 03	Solomon Islands 10.1°S 161.0°E, H=06 13 53.0, h= 47 km(ISC), m=5.7 ISC, Dc=132.6°.
	ei	35 33.5	
15	eiPg	10 01 17	D=1.1°.
	ei	01 29	
	iSg	01 32	
	Lm	01 47	

Date	Phase	h m s	Remarks
15	e	12 28 14	
	eiSg	28 32	
	Lm	28 46	
15	e	12 46 26	
	e	47 01	
	ei	48 05	
15	eiPg	14 00 20	D=1.6°.
	eiSg	00 42	
15	eiP	15 43 18	Kamchatka 56.1°N 161.9°E, H=15 31 54.6, h=33 km (ISC), m=4.2 ISC, Dc=71.9°.
15	ePKIKP	16 55 39	Solomon Islands, Dc=132.6°.
	e	56 15	
	ei	58 04	
15	eiP	17 02 21	
15	eiP	18 15 15.7	
15	ePKIKP	23 02 52	Santa Cruz 11.0°S 167.0°E, H=22 43 34, h=62 km (ISC), m=4.9 ISC, Dc=136.1°.
15	eiP	23 37 30	Kurile Islands, Dc=79.1°.
16	ePn	04 32 47	Yugoslavia 43.5°N 20.0°E, H=04 30 59(BCIS), Dc= 7.2°.
16	ePKIKP	11 05 06	Tonga Islands 15.2°S 173.0°W, H=10 45 28.9, h= 33 km(ISC), m=4.4 ISC, Dc=145.7°.
16	e	13 45 03	
	eiSg	45 21	
	Lm	45 34	
16	ei	16 00 10	
	ei(Sg)	00 16.9	
16	eiP	17 10 35	Jan Mayen, Dc=23.8°.
	ei	11 19	
16	eiP	18 11 04.6	North Atlantic Ridge, Dc=59.7°.
16	eP	22 43 05	Indian Ocean, Dc=90.3°.
	ei	43 11	
17	ePKIKP	01 04 21	Solomon Islands 10.4°S 160.8°E, H=00 45 04, h= 40 km(ISC), m=5.2 ISC, Dc=132.8°.
	e	06 43	
17	e	01 35 55	
17	eiPKP	07 09 16.5	Tonga Islands, Dc=148.4°.
17	eiP	09 00 29.5	Japan, Dc=78.5°.

Date	Phase	h m s	Remarks
17	iPg	10 01 13.4	D=1.4°.
	iSg	01 31.4	
	Lm	01 42	
17	eiPKP	10 22 54.7	Tonga Islands, Dc=151.1°.
	ei	23 05	
17	eiPg	11 29 44	D=1.5°.
	eiSg	30 05	
17	ePg	12 53 25	D=2°.
	eiSg	53 51	
17	e	12 59 36	Explosion?
	Lm	59 40.5	
17	eiP	18 40 49	Congo 0.7°N 29.9°E, H=18 31 34.8, h=33 km(ISC),
	ei	41 27	m=5.3 ISC, Dc=50.2°.
	ei	42 25.4	
17	eiPKIKP	22 45 15	Salomon Islands 10.2°S 161.0°E, H=22 26 07, h=
			61 km(ISC), m=5.3 ISC, Dc=132.7°.
17	eiP	23 04 46.5	Taiwan 23.9°N 122.0°E, H=22 52 19.7, h=42 km(ISC),
			Dc=83.8°.
18	eiP	05 33 14	Africa 29.5°S 29.4°E, H=05 21 06.1, h=18 km(ISC),
	ei	35 51	m=5.0 ISC, Dc=79.5°.
18	e	07 02 10	
	eiSg	02 35	
	Lm	02 52	
18	eiPg	07 59 54	Explosion of 9.5 Tons, Dc=1.8°.
	i	59 56	
	iSg	08 00 19	
	Lm	00 31	
18	e	12 13 06	
	e	13 15	
	ei	14 17.9	
18	eiPKP	16 05 00	Tonga Islands 18.1°S 178.4°W, H=15 46 19.2, h=
			592 km(ISC), m=4.4 ISC, Dc=147.6°.
18	ePg	18 10 27	D=1.3°.
	eiSg	10 43.5	
18	eiPKP	19 34 17.9	New Guinea, Dc=117.5°.
	ei	35 11	
18	eiPKP	22 14 08.2	Tonga Islands, Dc=148.5°.
19	eiP	00 19 06.5	Alaska 59.5°N 137.4°W, H=00 07 57.3, h=14 km(ISC),
			m=4.3 ISC, Dc=69.2°.

Date	Phase	h m s	Remarks
19	eiP	01 03 47	Congo 0.7°N 30.0°E, H=00 54 51.8, h=33 km(ISC),
			m=5.1 ISC, TFV=1.1 s A=16 mu, mPV=4.8, Dc=50.3°.
19	iPn	04 12 58.7	Yugoslavia, Dc=3.1°.
	ei	13 04	
	eiSn	13 34.4	
	iSg	13 46.5	
19	eP	17 59 00	Turkey, Dc=14.5°.
	ei	59 29	
	ei	18 01 57	
19	eiP	19 40 44.1	Aleutian Islands, Dc=79.2°.
	ei	41 37.6	
20	eiP	01 36 28	Aleutian Islands 51.5°N 178.5°W, H=01 24 14.8,
			h=43 km(ISC), m=5.0 ISC, Dc=79.2°.
20	eiP	04 43 31	Japan, Dc=78.9°.
20	ei	05 05 47.5	
20	ei	05 36 53	
20	eiPKIKP	09 11 44.5	Samoa Islands, Dc=146.7°.
	i	11 50.9	
20	ei	12 40 53	
	iSg	41 34.9	
20	ei	12 48 22.5	
	i	48 26.4	
20	eiPKIKP	19 28 50	Tonga Islands, Dc=151.2°.
20	eiP	20 54 56.5	
	ei	55 30	
21	ei	01 02 39.4	Santa Cruz Islands, Dc=135.2°.
	eiPP	05 15	
	ei	06 21	
21	eiPKIKP	07 31 46.8	Tonga Islands, Dc=150.9°.
21	e	14 04 46	
	ei	05 09.4	
21	eiP	15 59 38.5	Japan, TFV=0.7 s A=11 mu, mPV=4.9, Dc=78.7°.
21	eP	18 24 34.6	Mexico, Dc=89.3°.
21	iP	23 18 17.0	C. Purile Islands, TFV=1 s A=89 mu, mPV=5.8, Dc=
	i	18 35.5	76.4°.
	ei	19 34	

Date	Phase	h m s	Remarks
22	ei	02 09 29.6	
22	ePn	09 11 25	Switzerland 46.2°N 6.4°E, H=09 09 57, h=0 km(ISC),
	ei	12 06.8	m=5.6 ISC, Dc=5.6°.
	ei	12 40	
22	eiP	11 49 55	D. Alaska, Dc=68.9°.
	ei	50 04.3	
22	e	12 32 58	
	ei	33 04.6	
22	e	12 46 13	
	ei	46 35.8	
22	eiSg	13 10 22.4	
	Lm	10 25	
22	eiP	13 34 31.2	Kamchatka 53.0°N 159.8°E, H=13 22 55.4, h=33 km
			(ISC), m=4.0 ISC, Dc=74.3°.
22	e	15 59 35	
22	e	17 01 42	
	eiSg	02 13	
22	eP	19 02 25	Kurile Islands, Dc=78.0°.
22	eiP	20 42 36.5	Banda Sea, Dc=109.2°.
	eipP	44 35.5	
	ei	46 36.2	
	ei	46 41.7	
22	eiP	20 58 03.5	C.
	ei	21 00 08.8	
	ei	01 45	
22	eiPg	23 21 16.4	D=1.3°.
	eiSg	21 31	
23	iP	05 13 08.8	D. Japan, TPV=1.1 s A=184 mu, mPV=5.7, Dc=76.3°.
	i	13 14.5	
	ei	15 51.4	
23	eiP	05 51 15.7	D. Japan, Dc=80.8°.
23	eiP	09 47 32.6	D. Zambia, TPV=0.9 s A=11 mu, mPV=5.0, Dc=63.5°.
	ei	47 38.5	
23	ei	11 23 22	Greece 37.4°N 21.8°E, H=11 20 02.3(ATH), m=3.7 ATH,
	ei	23 30	Dc=13.1°.
23	eiPg	12 01 12.7	D=1.6°.
	eiSg	01 33.8	
23	e	12 42 06	
	ei	42 32	

Date	Phase	h m s	Remarks
23	ei	14 43 57	Poland, Dc=3.7°.
	eiSg	44 03	
23	ePg	15 40 20	D=76 km.
	eiSg	40 29	
23	eiPg	19 02 23.5	D=1.2°.
	eiSg	02 39.8	
	Lm	02 48	
23	eiP	22 04 06.8	Japan, Dc=81.8°
	ei	04 13.5	
	ei	04 26.9	
24	e	07 36 06	
	eiSg	36 17.2	
	lm	36 23	
24	eiPKIKP	08 37 26.2	C. Fiji Islands, Dc=156.1°.
	i	37 55.5	
	eiPP	41 30	
24	e	12 43 31.2	
	eiSg	43 55	
24	eiSg	12 44 50	
24	eipPKP	14 08 53	Fiji Islands, Dc=152.8°.
24	e	15 02 28.5	
	eiSg	03 07	
24	eiPn	15 08 16.5	Italy, Dc=5.9°.
	ei	08 26	
	eiSn	09 22.2	
24	ei(P)	16 39 03.7	Crete 34.9°N 23.1°E, H=16 35 14.5, h=0(ISC), Dc=
			15.8°.
24	eiP	22 37 15	Greece, Dc=11.9°.
	ei	37 21	
25	eiP	01 59 01.8	C. Japan, TPV=1 s A=13 mu, mPV=5.1, Dc=89.3°.
25	ePg	08 55 20	
	ei(Sg)	55 58.6	
25	ei	09 40 41	
25	iPKIKP	10 51 20.5	C. New Hebrides, Dc=144.8°.
	ei	51 34	
25	eiPKIKP	16 20 28	Solomon Islands, Dc=132.6°.
25	eiP	17 37 24	Guatemala 14.0°N 91.2°W, H=17 24 38.1, h=89 km(ISC),
			m=5.1 ISC, Dc=88.9°.

Date	Phase	h m s	Remarks
25	eiPKP	18 57 19	New Britain, Dc=123.4°.
25	eiP	21 43 56.4	Aleutian Islands, Dc=76.2°.
26	eiPKP	07 09 10.2	Tonga Islands, Dc=151.3°.
	ei	10 08	
26	eiP	07 47 11.3	Japan, Dc=81.6°.
26	eiP	11 06 38	Eastern India, Dc=63.9°.
26	eiP	13 21 34	Turkey, Dc=20.3°.
26	eP	23 41 43.6	China, Dc=67.2°.
27	eiPn	05 17 28	Italy, Dc=6.0°.
	ei	17 33.2	
	eiSn	18 34	
	ei	19 22	
27	eiPKP	06 47 44	Loyalty Islands 21.3°S 170.0°E, H=06 28 05, h=56 km(ISC), m=5.0 ISC, Dc=14[illegible]°.
27	ePn	07 56 09	
	ei	56 14.5	
	ei(Sn)	57 16	
	ei	58 04	
27	eiPKP	08 58 37	Tonga Islands, Dc=152.8°.
	ei	58 57.2	
	ei	09 02 06.7	
27	iP	10 50 29	C. Nepal-India , TPV=1 s A=124 mu, mPV=5.8, Dc=53.7°.
	i	50 49	
	i	51 05	
27	eiP	10 59 10	C. Nepal-India , TPV=1 s A=32 mu, Dc=53.9°.
27	iP	11 08 38.6	C. Nepal-India , TPV=1.2 s A=234 mu, mPV=6.6,
	i	10 44	Dc=53.7°.
27	eiP	11 31 03	Nepal-India , Dc=53.7°.
27	ePg	12 00 44	D=1.6°.
	eiSg	01 05	
27	eiPKIKP	12 33 44.5	Tonga Islands, Dc=147.0°.
27	e	12 40 09	Pyrenees 42.6°N 0.8°E, H=12 30 50(CDD), m=4.7 CDD,
	ei	40 34.5	Dc=11.0°.
27	eSg	13 12 27	Poland 50.3°N 18.9°E, H=13 10 32.4, m=2.5 WAR,
	ei	13 09	Dc=3.6°.
27	eiP	14 05 12.8	C. Nepal-India , Dc=53.8°.

Date	Phase	h m s	Remarks
27	e	16 18 23	
	ei	18 56.4	
	ei(Sg)	19 21	
27	eiPP1	22 06 58	New Zealand, Dc=163.9°.
	ei	07 26.8	
	eiPP2	07 53.5	
28	eP	00 03 46	Rumania, Dc=9.3°.
28	eP	04 21 39.4	California, Dc=86.1°.
28	eP	04 38 59	California, Dc=86.0°.
28	ePg	15 01 20	D=68 km.
	eiSg	01 28	
28	e	16 17 16	
	eiSg	17 38	
28	eiP	17 00 06	Ryukyu Islands, Dc=83.5°.
29	eP	00 51 49	Albania 41.3°N 20.5°E, H=00 49 35, h=16 km(ISC),
	ei	51 55	mb4.6 ISC, Dc=9.2°.
29	eiP	07 05 42.6	C. Kazakhstan, Dc=40.7°.
29	e	14 14 33	
	ei	15 29.5	
29	e	14 19 39	
	eiSg	20 02	
29	eiPg	15 05 59	Explosion of 16.5 Tons, Dc=3.2°.
	eiSg	06 42.8	
29	eiP	20 06 08.8	California, Dc=86.2°.
29	eiPKIKP	22 06 17.5	New Hebrides, Dc=138.3°.
	eiPP	09 04.5	
	ei	09 52.8	
30	iP	09 10 33.7	D. Russia, TPV=1.2 s A=103 mu, mPV=5.2, Dc=73.4°.
30	eiP	09 37 43.6	Kurile Islands, Dc=79.1°.
30	eiPg	11 02 29.6	D=93 km.
	iSg	02 30.8	
	Lm	02 45	
30	ePg	11 54 42.4	D=76 km.
	eiSg	54 51.2	
30	e	12 30 40	
	eiSg	30 46	

Date	Phase	h m s	Remarks
25	eiPKP	18 57 19	New Britain, Dc=123.4°.
25	eiP	21 43 56.4	Aleutian Islands, Dc=76.2°.
26	eiPKP	07 09 10.2	Tonga Islands, Dc=151.3°.
	ei	10 08	
26	eiP	07 47 11.3	Japan, Dc=81.6°.
26	eiP	11 06 38	Eastern India, Dc=63.9°.
26	eiP	13 21 34	Turkey, Dc=20.3°.
26	eP	23 41 43.6	China, Dc=67.2°.
27	eiPn	05 17 28	Italy, Dc=6.0°.
	ei	17 33.2	
	eiSn	18 34	
	ei	19 22	
27	eiPKP	06 47 44	Loyalty Islands 21.3°S 170.0°E, H=06 28 05, h= 58 km(ISC), m=5.0 ISC, Dc=14[illegible].9°.
27	ePn	07 56 09	
	ei	56 14.5	
	ei(Sn)	57 16	
	ei	58 04	
27	eiPKP	08 58 37	Tonga Islands, Dc=152.8°.
	ei	58 57.2	
	ei	09 02 06.7	
27	iP	10 50 29	C. **Nepal-India** , TPV=1 s A=124 mu, mPV=5.8, Dc= 53.7°.
	i	50 49	
	i	51 05	
27	eiP	10 59 10	C. **Nepal-India** , TPV=1 s A=32 mu, Dc=53.9°.
27	iP	11 08 38.6	C. **Nepal-India** , TPV=1.2 s A=234 mu, mPV=6.0,
	i	10 44	Dc=53.7°.
27	eiP	11 31 03	**Nepal-India** , Dc=53.7°.
27	ePg	12 00 44	D=1.6°.
	eiSg	01 05	
27	eiPKIKP	12 33 44.5	Tonga Islands, Dc=147.0°.
27	e	12 40 09	Pyrenees 42.0°N 0.8°E, H=12 30 30(BDD), m=4.7 MDD,
	ei	40 34.5	Dc=11.0°.
27	eSg	13 12 27	Poland 50.3°N 18.9°E, H=13 10 32.4, m=2.5 WAR,
	ei	13 09	Dc=3.6°.
27	eiP	14 05 12.8	C. **Nepal-India** , Dc=53.8°.

Date	Phase	h m s	Remarks
27	e	16 18 23	
	ei	18 56.4	
	ei(Sg)	19 21	
27	eiPP1	22 06 58	New Zealand, Dc=163.9°.
	ei	07 26.8	
	eiPKP2	07 53.5	
28	eP	00 03 46	**Rumania**, Dc=9.3°.
28	eP	04 21 39.4	California, Dc=86.1°.
28	eP	04 38 59	California, Dc=86.0°.
28	ePg	15 01 20	D=68 km.
	eiSg	01 28	
28	e	16 17 16	
	eiSg	17 38	
28	eiP	17 00 06	Ryukyu Islands, Dc=83.5°.
29	eP	00 51 49	Albania 41.3°N 20.5°E, H=00 49 35, h=16 km(ISC),
	ei	51 55	mb4.6 ISC, Dc=9.2°.
29	eiP	07 05 42.6	C. Kazakhstan, Dc=40.7°.
29	e	14 14 33	
	ei	15 29.5	
29	e	14 19 39	
	eiSg	20 02	
29	eiPg	15 05 59	Explosion of 16.5 Tons, Dc=3.2°.
	eiSg	06 42.8	
29	eiP	20 06 08.8	California, Dc=86.2°.
29	eiPKIKP	22 06 17.5	New Hebrides, Dc=138.3°.
	eiPP	09 04.5	
	ei	09 52.8	
30	iP	09 10 33.7	D. Russia, TPV=1.2 s A=103 mu, mPV=5.2, Dc=73.4°.
30	eiP	09 37 43.6	Kurile Islands, Dc=79.1°.
30	eiPg	11 02 29.6	D=93 km.
	iSg	02 30.8	
	Lm	02 45	
30	ePg	11 54 42.4	D=76 km.
	eiSg	54 51.2	
30	e	12 30 40	
	eiSg	30 46	

Date	Phase	h m s	Remarks
30	eiP	12 41 04.8	Philippine Islands, Dc=97.4°.
30	eiP	15 57 48	Taiwan Region, TFV=1.5 s A=36 mu, mFV=5.4, Dc=83.2°.
30	eiPKIKP	17 16 58.2	Fiji Islands, Dc=145.3°.
30	eiP	19 23 45.7	Albania, Dc=9.5°.
	ei	23 58	
	ei	27 05.2	
30	iP	22 27 28.0	C. Nevada, TFV=1.4 s A=178 mu, mFV=6.1, Dc=83.1°.
	ei	27 51	
	ei	23 00 39	

Station Praha - microseismic agitation

January - June 1966

J. Hajský

Microseismic agitation
Instrument: Wiechert NS

January 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	4.5	0.2	3	4.3	0.2	3	4.5	0.2	3	4.7	0.4
2	3	4.0	0.2	3	4.1	0.2	3	4.0	0.2	3	4.2	0.2
3	3	3.9	0.2	3	4.1	0.2	3	4.3	0.2	3	4.4	0.1
4	3	3.7	0.1	3	3.9	0.2	3	3.9	0.1	3	4.0	0.2
5	3	3.9	0.1	3	4.5	0.2	3	4.3	0.2	3	4.6	0.2
6	3	4.2	0.1	3	4.4	0.2	3	4.4	0.2	3	4.3	0.2
7	3	4.2	0.1	3	4.7	0.2	3	4.9	0.2	3	4.4	0.2
8	3	4.4	0.1	3	4.5	0.2	3	4.4	0.1	3	4.1	0.1
9	0.0			3	4.0	0.1	3	4.3	0.1	3	4.1	0.1
10	3	4.3	0.1	3	4.6	0.2	3	4.3	0.2	3	4.0	0.1
11	3	4.1	0.1	3	4.6	0.4	3	4.3	0.4	3	4.0	0.2
12	3	3.9	0.2	3	4.3	0.2	3	4.1	0.2	3	4.2	0.2
13	3	4.5	0.2	3	4.6	0.2	3	4.4	0.2	3	4.3	0.1
14	3	4.2	0.1	3	4.6	0.4	3	4.7	0.4	3	4.3	0.2
15	3	4.0	0.1	3	3.9	0.1	3	4.5	0.2	3	4.3	0.1
16	3	4.0	0.1	3	3.9	0.1	3	3.7	0.1	3	4.0	0.1
17	0.0			3	4.1	0.1	3	4.0	0.1	3	4.1	0.2
18	3	3.6	0.2	3	4.1	0.2	3	4.6	0.4	3	4.6	0.4
19	3	4.2	0.2	3	4.8	0.5	3	4.7	0.6	3	4.7	0.5
20	3	4.6	0.4	3	5.2	0.7	3	5.1	0.6	3	4.7	0.4
21	3	4.3	0.2	3	4.4	0.4	3	4.3	0.4	3	4.5	0.2
22	3	4.0	0.1	3	4.2	0.2	3	4.3	0.2	3	3.9	0.1
23	3	3.6	0.1	0.0			3	3.9	0.2	3	3.4	0.1
24	3	3.6	0.1	3	4.0	0.1	3	4.1	0.1	3	3.9	0.1
25	3	3.7	0.1	3	4.3	0.2	3	4.4	0.4	3	4.7	0.2
26	3	4.6	0.4	3	5.3	0.5	3	4.6	0.4	3	4.4	0.2
27	3	4.0	0.1	3	4.4	0.2	3	4.0	0.2	3	3.9	0.2
28	3	3.7	0.1	3	4.3	0.2	3	4.2	0.1	3	4.4	0.2
29	3	4.1	0.1	3	4.3	0.2	3	4.4	0.2	3	4.2	0.2
30	3	4.2	0.1	3	4.6	0.2	3	4.4	0.2	3	4.8	0.4
31	3	4.6	0.1	3	5.4	0.4	3	5.5	0.5	3	5.2	0.2

Microseismic agitation
Instrument: Wiechert EW

January 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	4.4	0.1	3	4.2	0.1	3	4.7	0.3	3	4.4	0.3
2	3	4.0	0.3	3	4.2	0.1	3	4.0	0.3	3	4.1	0.3
3	vv			3	3.7	0.1	3	3.9	0.1	3	3.9	0.1
4	3	3.5	0.1	...			3	3.6	0.1	0.0		
5	3	3.9	0.1	3	4.4	0.1	3	4.3	0.1	3	4.2	0.1
6	3	4.2	0.1	3	4.0	0.1	3	4.1	0.1	3	4.3	0.1
7	3	4.4	0.1	3	4.0	0.1	3	4.5	0.1	3	3.9	0.1
8	0.0			3	4.4	0.1	3	4.1	0.1	3	3.9	0.1
9	0.0			0.0			0.0			0.0		
10	0.0			3	4.4	0.1	3	4.2	0.1	3	3.9	0.1
11	3	4.0	0.1	3	4.2	0.3	3	4.6	0.4	3	4.0	0.3
12	3	4.0	0.1	3	4.0	0.1	3	4.1	0.1	3	3.9	0.1
13	3	4.3	0.3	3	4.6	0.1	3	4.7	0.3	3	4.4	0.1
14	3	4.0	0.1	3	4.3	0.1	3	4.6	0.3	3	4.2	0.1
15	3	3.9	0.1	3	4.1	0.1	3	4.4	0.1	3	4.0	0.1
16	3	3.9	0.1	3	3.9	0.1	3	3.9	0.1	0.0		
17	0.0			0.0			0.0			3	3.8	0.1
18	3	3.5	0.1	3	4.0	0.3	3	4.2	0.3	3	4.4	0.3
19	3	4.2	0.3	3	4.6	0.3	3	4.2	0.4	3	4.3	0.3
20	3	4.4	0.1	3	5.0	0.4	3	4.6	0.4	3	4.3	0.3
21	3	4.2	0.1	3	4.3	0.3	3	4.1	0.3	3	4.2	0.1
22	3	3.9	0.1	3	4.0	0.1	3	3.9	0.1	0.0		
23	0.0			0.0			3	3.7	0.1	3	3.5	0.1
24	0.0			0.0			0.0			0.0		
25	0.0			3	4.1	0.1	3	4.4	0.3	3	4.3	0.3
26	3	4.7	0.3	3	5.0	0.4	3	4.8	0.3	3	4.2	0.1
27	0.0			3	4.1	0.3	3	4.0	0.1	0.0		
28	0.0			3	4.0	0.1	3	3.9	0.1	0.0		
29	0.0			3	4.3	0.3	3	4.1	0.1	3	4.3	0.3
30	3	4.3	0.1	3	4.4	0.1	3	4.3	0.3	3	4.6	0.3
31	3	4.6	0.1	3	5.4	0.3	3	4.9	0.3	3	5.0	0.3

Microseismic agitation
Instrument: Wiechert NS

February 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	4.5	0.1	3	4.9	0.4	3	5.2	0.4	3	5.1	0.2
2	3	4.7	0.2	3	4.8	0.4	3	5.1	0.4	3	5.0	0.4
3	3	4.4	0.1	3	4.5	0.2	3	4.8	0.4	3	4.7	0.2
4	3	4.5	0.2	3	4.8	0.4	3	4.9	0.4	3	4.1	0.2
5	3	4.6	0.2	3	4.7	0.4	3	4.8	0.4	3	4.3	0.2
6	3	4.5	0.2	3	4.8	0.4	3	5.5	0.5	3	4.9	0.4
7	3	4.8	0.2	3	4.7	0.2	...			3	4.6	0.4
8	3	4.6	0.2	3	4.4	0.4	3	4.6	0.4	...		
9	...			vv			3	4.6	0.4	3	4.2	0.1
10	3	3.9	0.1	3	4.2	0.2	3	4.2	0.2	0.0		
11	0.0			3	3.8	0.1	3	4.0	0.2	3	3.8	0.1
12	0.0			3	4.1	0.2	3	4.0	0.1	3	4.3	0.1
13	3	3.9	0.1	3	3.5	0.2	3	3.3	0.1	3	3.8	0.2
14	3	3.9	0.1	3	4.4	0.2	3	4.5	0.2	3	4.4	0.2
15	3	4.1	0.1	3	4.6	0.2	3	4.4	0.4	3	4.2	0.2
16	3	4.2	0.1	3	4.4	0.2	3	4.2	0.2	3	4.2	0.1
17	3	4.5	0.1	3	4.3	0.2	3	4.9	0.4	3	4.3	0.2
18	3	4.3	0.2	3	4.4	0.2	3	4.3	0.2	3	3.9	0.2
19	3	3.9	0.1	3	4.4	0.2	3	4.4	0.1	3	4.1	0.2
20	3	4.4	0.1	3	3.9	0.1	3	4.6	0.2	3	5.1	0.4
21	3	5.0	0.4	3	5.3	0.5	3	5.4	0.6	3	5.3	0.4
22	3	4.6	0.2	tt			3	4.8	0.4	3	4.4	0.2
23	3	4.1	0.1	3	4.7	0.4	3	4.9	0.4	3	5.2	0.4
24	3	5.6	0.2	3	5.7	0.4	3	5.6	0.4	3	5.3	0.4
25	3	5.3	0.4	3	5.7	0.6	3	5.8	0.7	3	5.1	0.5
26	3	4.7	0.4	3	5.6	0.6	3	5.2	0.5	3	5.2	0.4
27	3	5.3	0.4	3	5.3	0.4	3	4.7	0.4	3	4.6	0.2
28	3	4.6	0.1	3	4.8	0.2	3	4.2	0.2	3	4.2	0.1

Microseismic agitation
Instrument: Wiechert EW

February 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	4.8	0.1	3	4.5	0.1	3	4.1	0.3	3	4.8	0.3
2	3	5.0	0.3	3	4.7	0.3	3	4.5	0.3	3	4.4	0.1
3	3	4.1	0.1	3	4.4	0.1	3	4.6	0.3	3	4.5	0.1
4	3	4.5	0.1	3	4.5	0.1	3	4.7	0.3	3	4.4	0.3
5	3	4.2	0.1	3	4.4	0.3	3	4.7	0.4	3	4.5	0.3
6	3	4.6	0.3	3	5.0	0.4	3	5.0	0.4	3	4.9	0.3
7	3	4.6	0.1	3	4.5	0.1	...			3	4.9	0.3
8	3	5.0	0.1	3	4.8	0.3	3	4.5	0.3	...		
9	...			vv			3	4.2	0.1	3	4.1	0.1
10	0.0			3	3.9	0.1	3	4.0	0.1	0.0		
11	0.0			0.0			3	3.6	0.1	3	3.7	0.1
12	3	3.4	0.1	3	3.9	0.1	3	4.0	0.1	3	3.7	0.1
13	0.0			3	3.4	0.1	3	3.4	0.1	3	3.7	0.1
14	0.0			3	4.0	0.1	3	3.9	0.1	3	3.9	0.1
15	0.0			3	4.3	0.3	3	4.6	0.3	3	4.6	0.1
16	3	4.1	0.1	3	4.2	0.3	3	4.2	0.1	3	4.0	0.1
17	3	4.1	0.1	3	4.6	0.3	3	4.6	0.3	3	4.2	0.1
18	3	4.2	0.1	3	4.5	0.3	3	4.6	0.3	3	4.2	0.1
19	0.0			3	4.3	0.1	3	4.4	0.1	0.0		
20	...			3	4.2	0.1	3	4.7	0.1	3	4.7	0.3
21	3	4.5	0.3	3	5.3	0.4	3	5.0	0.3	3	4.9	0.3
22	3	4.3	0.1	tt			3	4.5	0.3	3	4.1	0.3
23	3	4.4	0.1	3	4.3	0.3	3	4.8	0.3	3	4.8	0.3
24	3	5.2	0.3	3	5.2	0.4	3	5.8	0.4	3	5.4	0.4
25	3	4.8	0.3	3	5.4	0.4	3	5.3	0.3	3	5.0	0.4
26	3	4.9	0.3	3	5.4	0.4	3	5.0	0.4	3	5.0	0.3
27	3	5.1	0.3	3	5.2	0.1	3	4.6	0.3	3	4.3	0.1
28	0.0			3	4.3	0.1	3	4.1	0.1	3	4.0	0.1

Microseismic agitation
Instrument: Wiechert NS

March 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.9	0.1	3	5.0	0.4	3	4.4	0.4	3	4.6	0.2
2	3	4.4	0.1	3	4.5	0.2	3	4.8	0.2	3	4.0	0.1
3	3	3.9	0.1	3	4.9	0.2	3	4.7	0.4	3	4.5	0.2
4	3	4.3	0.1	3	4.4	0.2	3	4.6	0.1	3	4.4	0.1
5	3	4.4	0.1	3	4.5	0.2	3	4.3	0.1	3	3.9	0.1
6	3	4.0	0.1	0.0			3	4.3	0.1	3	4.1	0.1
7	3	3.9	0.1	3	4.1	0.1	3	4.4	0.2	3	3.9	0.1
8	0.0			3	3.9	0.2	3	4.1	0.2	3	3.9	0.1
9	3	4.3	0.1	3	4.0	0.2	3	4.2	0.2	3	4.5	0.2
10	3	4.4	0.1	3	3.9	0.2	3	4.0	0.2	3	4.1	0.2
11	3	3.9	0.1	3	4.6	0.2	3	4.6	0.2	3	5.3	0.2
12	3	4.4	0.1	3	4.3	0.2	3	4.0	0.1	tt		
13	3	3.6	0.1	0.0			3	4.1	0.1	3	4.4	0.1
14	0.0			3	3.9	0.1	3	4.0	0.1	3	3.9	0.1
15	3	3.8	0.1	3	4.1	0.1	3	4.0	0.2	3	4.0	0.1
16	0.0			3	3.8	0.1	3	4.2	0.1	3	4.0	0.1
17	0.0			3	3.8	0.1	3	3.9	0.1	3	3.7	0.1
18	0.0			3	5.5	0.2	3	5.0	0.1	3	4.1	0.1
19	0.0			3	4.0	0.1	3	4.2	0.1	3	4.0	0.1
20	3	4.3	0.1	...			3	4.1	0.2	3	3.9	0.2
21	3	3.8	0.1	3	4.3	0.2	3	4.2	0.2	3	4.0	0.2
22	3	3.9	0.1	3	4.3	0.2	3	4.4	0.4	3	4.1	0.1
23	0.0			3	4.1	0.2	3	4.4	0.2	3	4.5	0.1
24	3	4.4	0.1	3	4.7	0.2	3	4.6	0.4	3	4.3	0.1
25	0.0			3	4.2	0.2	3	4.7	0.4	3	4.1	0.1
26	3	4.1	0.1	3	4.1	0.2	3	4.3	0.2	3	4.5	0.2
27	3	4.4	0.2	3	4.9	0.4	3	5.2	0.5	3	5.1	0.5
28	3	4.8	0.2	vv			vv			3	3.9	0.2
29	3	3.8	0.1	3	4.0	0.2	3	4.2	0.2	3	4.2	0.1
30	0.0			3	3.8	0.1	3	3.7	0.1	3	3.9	0.1
31	0.0			3	3.9	0.1	3	3.8	0.1	3	3.5	0.1

Microseismic agitation
Instrument: Wiechert EW

March 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.9	0.1	3	4.6	0.3	3	4.2	0.1	3	4.3	0.1
2	0.0			3	4.5	0.3	3	4.4	0.1	3	3.9	0.1
3	3	3.8	0.1	3	4.7	0.1	3	4.7	0.3	3	4.5	0.1
4	0.0			3	4.2	0.1	3	4.1	0.1	0.0		
5	0.0			3	3.9	0.1	3	4.0	0.1	0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			3	3.9	0.1	3	3.4	0.1
8	0.0			3	3.8	0.1	3	3.7	0.1	3	3.6	0.1
9	0.0			3	3.9	0.1	3	4.1	0.1	3	4.0	0.1
10	3	3.9	0.1	3	3.9	0.1	3	3.7	0.1	3	4.0	0.1
11	0.0			3	4.1	0.1	3	4.4	0.3	3	5.0	0.3
12	3	4.2	0.1	3	4.3	0.1	3	3.9	0.1	tt		
13	0.0			0.0			0.0			0.0		
14	0.0			3	4.0	0.1	3	3.7	0.1	0.0		
15	0.0			vv			vv			0.0		
16	0.0			0.0			3	3.5	0.1	0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			3	4.8	0.1	3	4.5	0.1	0.0		
19	0.0			3	3.9	0.1	3	4.0	0.1	3	3.7	0.1
20	0.0			...			3	4.0	0.1	3	3.9	0.1
21	3	3.6	0.1	3	4.4	0.1	3	4.1	0.1	0.0		
22	0.0			3	4.0	0.1	3	3.9	0.1	3	3.9	0.1
23	0.0			3	4.3	0.1	3	4.2	0.1	3	4.0	0.1
24	3	4.3	0.1	3	4.7	0.1	3	4.4	0.1	3	4.0	0.1
25	0.0			vv			vv			3	3.9	0.1
26	3	4.0	0.1	3	4.0	0.1	3	3.6	0.1	3	3.9	0.1
27	3	4.3	0.1	3	4.5	0.3	3	5.1	0.4	3	5.1	0.3
28	3	4.5	0.1	vv			vv			3	3.8	0.1
29	3	3.3	0.1	3	4.0	0.1	3	4.2	0.1	0.0		
30	0.0			0.0			3	3.8	0.1	0.0		
31	0.0			3	3.8	0.1	3	3.5	0.1	0.0		

Microseismic agitation April 1966 Praha
Instrument: Wiechert NS

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.4	0.1	3	3.9	0.1	3	3.7	0.1	3	3.7	0.1
2	3	3.4	0.1	3	3.3	0.1	3	3.8	0.1	3	3.9	0.1
3	0.0			3	3.2	0.1	3	3.3	0.1	3	3.7	0.2
4	3	3.5	0.1	3	4.2	0.2	3	4.0	0.2	3	4.1	0.2
5	3	4.0	0.2	3	3.9	0.2	3	4.0	0.2	3	3.9	0.2
6	3	3.7	0.1	3	4.2	0.2	3	4.1	0.2	3	4.0	0.1
7	3	3.9	0.1	3	3.9	0.1	3	4.3	0.1	3	4.0	0.1
8	0.0			...			3	4.1	0.2	3	3.9	0.1
9	3	3.9	0.1	3	3.8	0.1	3	4.1	0.2	3	4.1	0.1
10	3	4.1	0.1	3	4.0	0.1	3	4.5	0.4	3	4.2	0.2
11	3	4.5	0.1	3	4.0	0.1	3	4.0	0.1	3	4.3	0.1
12	0.0			3	3.9	0.1	3	3.7	0.1	0.0		
13	0.0			3	3.9	0.1	3	3.9	0.2	3	4.0	0.2
14	3	3.9	0.1	3	4.3	0.4	3	4.7	0.4	3	4.7	0.5
15	3	4.6	0.4	3	4.5	0.4	3	4.5	0.2	3	4.2	0.1
16	3	4.3	0.2	3	4.0	0.2	3	4.3	0.2	3	4.1	0.1
17	...			0.0			3	3.6	0.1	3	3.7	0.1
18	0.0			3	3.6	0.1	3	3.6	0.2	3	3.7	0.1
19	0.0			3	3.7	0.1	3	3.9	0.1	3	3.7	0.1
20	0.0			3	3.6	0.1	3	3.7	0.1	3	3.4	0.1
21	3	3.3	0.1	3	3.7	0.1	3	4.6	0.2	3	4.0	0.1
22	0.0			3	3.7	0.1	3	4.0	0.1	3	3.8	0.1
23	3	3.4	0.1	3	3.7	0.1	3	3.8	0.2	3	4.0	0.1
24	0.0			3	3.6	0.1	3	3.9	0.1	3	3.7	0.1
25	0.0			3	4.4	0.1	...			3	4.2	0.1
26	0.0			3	4.2	0.1	3	3.9	0.1	3	4.0	0.1
27	3	4.1	0.1	3	4.2	0.2	3	4.0	0.2	3	3.8	0.1
28	3	3.5	0.1	3	3.9	0.1	3	4.1	0.2	3	3.9	0.1
29	3	3.4	0.1	3	4.3	0.2	3	4.3	0.2	3	4.3	0.1
30	3	4.0	0.1	3	4.5	0.2	3	4.3	0.1	3	4.4	0.1

Microseismic agitation April 1966 Praha
Instrument: Wiechert EW

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			3	3.3	0.1	3	3.4	0.1
3	0.0			0.0			0.0			3	3.5	0.1
4	0.0			3	3.5	0.1	3	3.9	0.1	3	3.7	0.1
5	3	4.1	0.1	3	3.4	0.1	3	3.9	0.1	3	3.3	0.1
6	0.0			3	3.8	0.1	3	4.4	0.1	0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			...			0.0			0.0		
9	0.0			0.0			3	4.1	0.1	0.0		
10	3	3.9	0.1	3	3.4	0.1	3	4.2	0.1	0.0		
11	3	4.1	0.1	0.0			0.0			0.0		
12	0.0			0.0			3	3.7	0.1	0.0		
13	0.0			0.0			3	3.7	0.1	3	3.9	0.1
14	3	3.9	0.1	3	4.1	0.1	3	4.4	0.3	3	4.2	0.3
15	3	4.1	0.1	3	4.5	0.3	3	4.2	0.1	3	4.1	0.1
16	3	4.3	0.1	3	4.0	0.1	3	3.9	0.1	3	3.6	0.1
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			3	3.7	0.1	0.0		
19	0.0			3	3.8	0.1	3	3.7	0.1	3	3.5	0.1
20	0.0			3	3.7	0.1	3	3.8	0.1	0.0		
21	0.0			0.0			3	4.4	0.1	3	3.9	0.1
22	0.0			3	3.8	0.1	0.0			0.0		
23	0.0			3	3.3	0.1	3	3.8	0.1	3	3.8	0.1
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			3	3.9	0.1	0.0		
26	0.0			0.0			3	3.8	0.1	0.0		
27	0.0			3	3.5	0.1	3	4.0	0.1	3	3.4	0.1
28	0.0			0.0			3	3.9	0.1	3	3.7	0.1
29	0.0			3	4.2	0.1	3	4.0	0.1	3	3.9	0.1
30	0.0			3	4.2	0.1	3	4.4	0.1	3	3.9	0.1

Microseismic agitation
Instrument: Wiechert NS

May 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	4.1	0.1	3	4.0	0.1	3	3.9	0.2	3	3.9	0.2
2	3	3.8	0.1	3	4.2	0.2	3	3.9	0.1	3	4.0	0.1
3	3	3.8	0.1	3	3.8	0.1	3	3.7	0.1	3	3.4	0.1
4	0.0			3	3.3	0.1	3	3.5	0.1	3	3.7	0.1
5	0.0			3	3.9	0.1	3	4.0	0.2	3	4.0	0.2
6	3	3.7	0.1	3	3.9	0.2	3	3.9	0.2	3	4.3	0.2
7	3	3.8	0.1	3	4.0	0.2	3	3.9	0.2	3	3.7	0.1
8	3	3.7	0.1	3	3.6	0.1	3	3.7	0.1	3	3.5	0.1
9	0.0			3	3.9	0.1	3	4.0	0.2	3	4.1	0.2
10	3	3.9	0.1	3	4.0	0.1	3	3.9	0.2	3	3.9	0.2
11	3	3.8	0.1	3	3.9	0.2	3	4.1	0.2	3	4.4	0.2
12	3	3.8	0.1	3	4.3	0.1	3	4.1	0.2	3	4.0	0.1
13	3	3.9	0.1	3	3.7	0.1	3	3.8	0.1	3	3.6	0.1
14	3	3.3	0.1	3	3.8	0.2	3	3.7	0.1	tt		
15	3	4.4	0.1	3	4.5	0.1	3	4.4	0.1	3	4.4	0.1
16	0.0			3	4.0	0.1	3	4.2	0.2	3	3.8	0.1
17	3	3.8	0.1	3	4.1	0.1	3	4.0	0.1	3	3.9	0.2
18	3	3.9	0.1	3	4.3	0.1	...			3	4.4	0.1
19	0.0			3	3.8	0.1	3	4.4	0.2	3	4.0	0.1
20	3	3.6	0.1	3	3.8	0.1	...			3	3.5	0.1
21	0.0			3	3.5	0.1	3	3.3	0.1	3	2.8	0.1
22	0.0			3	3.2	0.1	3	3.3	0.1	3	3.0	0.1
23	3	3.0	0.1	3	3.8	0.1	3	3.9	0.2	3	3.7	0.1
24	3	4.0	0.2	3	4.0	0.2	3	3.9	0.2	3	4.1	0.2
25	3	3.7	0.1	3	4.0	0.1	3	4.2	0.2	3	4.1	0.2
26	3	4.0	0.2	3	4.2	0.1	3	3.9	0.1	3	3.6	0.1
27	0.0			3	3.8	0.1	3	4.0	0.1	3	3.7	0.1
28	3	4.1	0.1	3	3.7	0.1	3	3.3	0.1	0.0		
29	0.0			0.0			3	3.7	0.1	3	3.8	0.1
30	3	3.6	0.1	3	3.9	0.1	3	4.0	0.1	3	3.8	0.1
31	0.0			3	4.2	0.1	3	3.9	0.1	3	3.7	0.1

Microseismic agitation
Instrument: Wiechert EW

May 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.9	0.1	3	3.9	0.1	3	4.0	0.3
2	3	3.8	0.1	3	3.9	0.1	3	3.9	0.1	3	3.6	0.1
3	0.0			3	3.5	0.1	3	3.3	0.1	0.0		
4	0.0			0.0			3	3.5	0.1	3	3.3	0.1
5	0.0			0.0			3	4.1	0.1	0.0		
6	3	3.5	0.1	3	4.1	0.1	3	4.0	0.1	3	4.0	0.3
7	3	4.1	0.1	3	4.0	0.1	3	3.8	0.1	3	3.6	0.1
8	3	3.4	0.1	0.0			3	3.8	0.1	3	3.4	0.1
9	0.0			3	4.0	0.1	3	3.9	0.1	3	3.8	0.1
10	0.0			3	3.9	0.1	3	4.0	0.3	3	3.7	0.1
11	3	3.8	0.1	3	4.1	0.1	3	3.9	0.1	3	3.8	0.1
12	0.0			3	4.1	0.1	3	3.9	0.1	0.0		
13	0.0			3	3.4	0.1	3	3.5	0.1	3	3.5	0.1
14	3	3.6	0.1	3	3.7	0.1	3	3.9	0.1	tt		
15	0.0			3	4.1	0.1	3	4.0	0.1	3	4.1	0.1
16	0.0			3	3.9	0.1	3	4.3	0.1	3	3.7	0.1
17	0.0			0.0			3	4.2	0.1	3	4.0	0.1
18	0.0			3	4.3	0.1	...			3	4.0	0.1
19	0.0			0.0			3	4.0	0.1	3	3.8	0.1
20	0.0			3	4.0	0.1	...			3	3.1	0.1
21	0.0			3	3.3	0.1	0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			3	3.9	0.1	3	3.4	0.1	3	4.0	0.1
24	3	3.8	0.1	3	3.7	0.1	3	3.9	0.1	3	3.8	0.1
25	0.0			3	3.8	0.1	3	3.9	0.1	3	3.8	0.1
26	0.0			3	4.3	0.1	3	3.6	0.1	3	3.5	0.1
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			0.0			0.0		
30	0.0			3	3.8	0.1	3	4.0	0.1	0.0		
31	0.0			0.0			0.0			0.0		

Microseismic agitation
Instrument: Wiechert NS

June 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.8	0.1	3	3.6	0.1	0.0		
2	0.0			3	3.7	0.1	3	3.8	0.1	0.0		
3	0.0			3	3.8	0.1	3	3.5	0.1	0.0		
4	3	3.6	0.1	3	4.0	0.1	3	3.8	0.1	...		
5	3	3.3	0.1	3	4.2	0.1	0.0			0.0		
6	0.0			3	3.9	0.1	3	3.7	0.1	0.0		
7	0.0			3	3.8	0.1	3	4.0	0.1	3	3.3	0.1
8	0.0			3	3.7	0.1	3	3.9	0.2	3	3.8	0.1
9	0.0			3	3.7	0.1	3	3.8	0.1	3	3.6	0.1
10	3	3.3	0.1	3	3.8	0.1	3	3.9	0.1	3	3.4	0.1
11	3	3.7	0.1	3	3.5	0.1	3	3.9	0.2	3	3.6	0.2
12	3	3.9	0.2	3	3.4	0.1	3	3.7	0.2	3	3.6	0.1
13	0.0			3	3.8	0.1	3	4.0	0.1	3	3.3	0.1
14	0.0			3	3.8	0.1	0.0			3	3.7	0.1
15	0.0			3	4.2	0.1	3	4.1	0.1	3	4.4	0.1
16	0.0			3	3.9	0.1	3	3.9	0.1	3	3.9	0.1
17	0.0			3	4.1	0.1	3	3.9	0.1	3	4.2	0.1
18	0.0			3	4.0	0.1	3	4.3	0.2	3	4.2	0.1
19	3	3.9	0.1	3	4.2	0.1	3	3.7	0.1	3	3.9	0.1
20	0.0			3	3.9	0.1	3	3.6	0.1	0.0		
21	0.0			0.0			3	4.0	0.1	0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			3	3.8	0.1	3	3.5	0.1
27	0.0			3	3.7	0.1	3	5.6	0.4	3	4.4	0.2
28	3	4.3	0.1	3	4.1	0.2	3	4.3	0.2	3	3.9	0.2
29	3	4.1	0.2	3	3.8	0.2	3	3.7	0.1	3	3.7	0.1
30	3	3.3	0.1	3	3.8	0.1	3	3.8	0.1	3	3.7	0.1

Microseismic agitation
Instrument: Wiechert EW

June 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			0.0		
5	0.0			3	3.4	0.1	0.0			0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			3	3.4	0.1	0.0		
8	0.0			0.0			0.0			3	3.6	0.1
9	0.0			0.0			0.0			0.0		
10	0.0			3	3.7	0.1	3	3.3	0.1	0.0		
11	0.0			3	3.4	0.1	3	3.8	0.1	3	3.7	0.1
12	3	3.8	0.1	0.0			3	3.5	0.1	0.0		
13	0.0			0.0			3	3.4	0.1	0.0		
14	0.0			0.0			3	3.3	0.1	3	3.9	0.1
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0.0			3	4.0	0.1
17	0.0			3	3.9	0.1	0.0			3	3.9	0.1
18	0.0			0.0			3	4.3	0.1	3	4.1	0.1
19	3	3.9	0.1	0.0			0.0			0.0		
20	0.0			3	3.8	0.1	0.0			0.0		
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			3	3.9	0.1	0.0		
27	0.0			3	3.2	0.1	3	4.6	0.3	3	4.3	0.1
28	3	3.9	0.1	3	4.0	0.1	vv			3	3.9	0.3
29	3	3.8	0.1	3	4.2	0.1	3	3.7	0.1	3	3.3	0.1
30	0.0			0.0			0.0			0.0		

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Geophysical Institute of the Czechoslovak Academy
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BULLETIN
OF THE CZECHOSLOVAK
SEISMOLOGICAL STATIONS
PRŮHONICE, PRAHA, KAŠPERSKÉ HORY

JULY – DECEMBER 1966

ACADEMIA

NAKLADATELSTVÍ ČESKOSLOVENSKÉ AKADEMIE VĚD

Praha 1972

BULLETIN OF THE CZECHOSLOVAK SEISMOLOGICAL STATIONS PRŮHONICE, PRAHA, KAŠPERSKÉ HORY

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Praha 1972

ČESKOSLOVENSKÁ AKADEMIE VĚD

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Contents

Preface

The final interpretation of seismograms recorded at Czechoslovak seismograph stations in the period July - December 1966 is presented in the second volume of the Seismological Bulletin 1966. The method of treatment and the symbols used were the same as described in the Preface to the Volume I (January - June 1966). The group of authors preparing the yearly bulletin did not change in the second half-year 1966, as well as the international exchange of preliminary reports.

Seismic observations of the station PRÐHONICE

July - December 1966

J.Nykles

Instruments:

I = Modified seismograph Wood - Anderson, mass 4g, magnetic damping, components N, E, photographic registration,

II = Vertical electrodynamic seismograph with short period SVSN, developed by V.Tobyáš and J.Štěpánek, galavnometric registration,

III = Electrodynamic seismograph Kirnos, components N, E, Z, galvanometric registration,

Station coordinates: φ = 49° 59.3′N, λ = 14° 32.5′E.
Elevation: h = 302 m.
Lithologic foundation: algonkian layers.

Instrument	Compt.	T_1(s)	T_2(s)	D_1	D_2	σ^2	V_o	Tm	Vm
I	N	2.6		0.57			1870	1.6	1975
	E	2.6		0.55			1870	1.6	2040
II SVSN-4	Z	0.96	1.47	1	1	0.17	5.72×10^6	0.8	36000
SVSN-6	Z	0.55	0.28	0.6	0.6	0.25	4.78×10^6	0.3	210000
III	N	30	1.2	0.5	5	0.1		1-10	970
	E	30	1.2	0.5	5	0.12		1-10	970
	Z	20	1.2	0.5	5	0.2		1-10	1040

Date	Phase	h m s	Remarks
1	iP	06 02 48.5	C.S.W. Taiwan 24.9°N 122.6°E, H=05 50 38.0, h=
	ipP	03 19.5	102 km(ISC), m=6.1 ISC, Dc=82.1°, TPV=1.7 s, A=
	eiPP	05 59	941.1 mu, mPV=6.3 PRU, QmN:28 s 5 u, QmN:28 s
	eiS	12 51	5 u, RmH:15 s 3 u, MLH=6.2 PRU, PH:4 s 1.3 u,
	eisS	13 43	MPH=6.1 PRU, PV:4 s 1.8 u, MPV=6.2 PRU, SH:10 s
	ei	16 49	2.4 u, MSH=6.4 PRU, TPV: 1.7 s 941 mu, mPV=6.3.
	Q	31	
	Qm	35	
	Rm	44.6	
1	eiPg	08 01 15	Germany 51.3°N 12.7°E. Explosion of 13.6 Tons,
	ei	01 38	H=08 00(CLL), Dc=1.7°.
	eiSg	01 40.5	
1	e	10 43 22	
	eiSg	43 43.9	
1	e	10 59 07	
	eiSg	59 27.4	
1	ePg	12 52 19.6	D=1.8°.
	eiSg	52 43.6	
1	eiPg	15 10 47	
	ei	11 01	
1	eiPg	15 14 17	D=2°.
	eSg	14 43	
1	eiP	19 17 12.1	C. Aleutian Islands 52.3°N 174.1°E, H=19 05 24.4,
	eiPcP	17 24.6	h=33 km(ISC), m=4.8 ISC, Dc=76.6°.
1	eiPKP1	19 39 17.3	D. South of Fiji 23.9°S 179.9°W, H=19 20 23.8,
	eiPKP2	39 28.8	h=524 km(ISC), m=4.4 ISC, Dc=151.6°.
2	e	00 49 43	
	i	50 07	
2	e	09 45 45	
	eiSg	46 23	
2	eiPg	10 58 05	D=1.3°.
	eiSg	58 22	
2	eiPg	11 09 10	D=1.4°.
	iSg	09 28	
3	eiP	04 07 07.9	D. Aleutian Islands 52.4°N 170.3°W, H=03 55 12.2,
	e	07 29	h=42 km(ISC), m=5.2 ISC, Dc=77.9°.
3	eiPKP2	04 29 20.9	Tonga 21.3°S 174.2°W, H=04 09 34.2, h=69 km(ISC),
	ei	29 57.5	m=4.9 ISC, Dc=150.5°, LmH:21s 0.6u, MLH=5.6.
	eL	05 30	
	Lm	38	
3	eSg	14 50 52	Poland 50.3°N 18.9°E, H=14 49 22.5, m=2.5(WAR),
			Dc=2.8°.

Date	Phase	h m s	Remarks
4	iP	03 07 29.8	C. Aleutian Islands 51.6°N 176.4°E, H=02 55 37.7,
	ePP	10 21	h=41 km(ISC), m=5.5 ISC, Dc=77.5°, TPV=1.1 s, A=
			29.3 mu, mPV=5.4 PRU.
4	eiPKP$_1$	07 41 12	D. South of Fiji 22.2°S 179.4°W, H=07 22 25.1,
	eiPKP$_2$	41 21	h=594 km(ISC), m=4.5 ISC, Dc=150.2°.
4	eiPg	12 12 46	
	ei	13 17	
4	eiP	12 21 41	Azores region 37.5°N 24.8°W, H=12 15 27.4, h=
	ei	22 30	27 km(ISC), m=5.3 ISC, Dc=30.7°, TPV=2.2 s, A=
	eiS	26 46	90.0 mu, mPV=5.3, QmH:24 s 3.3 u, RMH: 15 s
	Q	30	2.8 u, MLH=5.1.
	Qm	31	
	Rm	34	
4	e	15 43 14	
4	eP	18 45 34	Aleutian Islands 52.0°N 180.0°E, H=18 33 38.7,
	i	45 48.5	h=16 km(ISC), m=5.9 ISC, Dc=77.6°, QmE: 32 s
	ei	49 09	29 u, TmH:19s 88 u, RmV:19 s 23 u.
	ei(S)	55 33	
	Q	19 06	
	Qm	09	
	R	16	
	Rm	24	
4	eP	19 02 20.5	Aleutian Islands 51.5°N 179.7°W, H=18 50 24.0,
			h=30 km(ISC), m=5.1 ISC, Dc=76.1°.
4	e	19 12 41	
5	eP	02 28 38	Azores region 37.5°N 24.7°W, H=02 22 22.4, h=
			15 km(ISC), m=4.6 ISC, Dc=30.6°.
5	eiP	02 33 40	Aleutian Islands 52.1°N 178.9°W, H=02 21 46.6, h=
	iPcP	33 50.5	53 km(ISC), m=5.3 ISC, Dc=77.6°, LmH:18 s 4.1 u,
	ei	35 27.5	MLH=5.9.
	e	36 16	
	e	37 42	
	eL	03 02	
	Lm	12	
5	iPKIKP	03 41 52.2	D. Tonga 15.2°S 174.9°W, H=03 22 46.5, h=262 km
	ei	43 06	(ISC), m=4.9 ISC, Dc=144.5°.
5	iPg	04 26 49.5	
	iSg	29 13.5	
5	iP	05 15 19.7	C. Azores region 37.5°N 24.7°W, H=05 09 04.7,
	e	16 50	h=18 km(ISC), m=5.0 ISC, Dc=30.6°, TPV=1.5 s,
			A=19.0 mu, mPV=4.8.
5	eiPg	09 09 59	D=1.3°.
	iSg	10 15.5	

Date	Phase	h m s	Remarks
5	eiPg	09 14 17	D=1.1°.
	eiSg	14 31.5	
5	eiP	10 11 36.4	India-China 27.8°N 92.6°E, H=10 01 18.1, h=
			33 km(ISC), m=4.8 ISC, Dc=61.8°.
5	ei	12 00 19.2	
	ei	00 50	
	eiSg	00 59	
5	ei	14 08 23	Germany 51.4°N 12.9°E, Explosion of 5 Tons, H=
	iSg	08 44.8	14 07, Dc=1.7°.
6	eiP	04 26 52	Southern Italy 40.9°N 15.8°E, H=04 24 42.2, h=
	ei	28 16	35 km(ISC), m=4.3 ISC, Dc=9.1°, LmN:6 s 0.9 u,
	eiS	28 32	MLH=4.2.
	ei	28 49	
	Lm	30.8	
6	eiP	10 12 32.5	Japan 36.6°N 138.1°E, H=10 00 23.5, h=20 km(ISC),
			Dc=80.4°.
6	eiPg	13 04 18	D=1.8°.
	i	04 20.7	
	eiSg	04 42	
	i	05 19	
6	eiP	14 07 34.5	C. China 44.1°N 83.4°E, H=13 59 11, h=10 km(ISC),
	eiP	09 27	m=4.6 ISC, Dc=45.8°, TPV=1.0 s, A=15.3 mu, mPV=
			5.0.
6	ei	19 40 48	
	iSg	40 50	
6	eiP	20 34 22.5	Ryukyu Islands 25.9°N 127.9°E, H=20 21 45.0, h=
	ei	34 33	17 km(ISC), m=5.2 ISC, Dc=84.1°, TPV=1.5 s, A=
			50.2 mu, mPV=5.5.
7	iPg	03 54 44.6	
	iSg	59 08.6	
7	eiPg	12 56 06.6	
	eiSg	56 30	
7	eiPg	14 20 10	
	ei	20 40	
7	eiPKIKP	23 41 49	Tonga 18.2°S 173.5°W, H=23 22 04.2, h=15 km(ISC),
	ei	42 03.5	m=5.0 ISC, Dc=147.6°.
8	ePg	12 30 04	D=1.8°.
	eiSg	30 25.5	
8	eiPKP	22 32 12	Tonga 19.3°S 174.1°W, H=22 12 29, h=48 km(ISC),
			m=5.0 ISC, Dc=148.6°.

Date	Phase	h m s	Remarks
9	ePn	10 06 28	Yugoslavia 43.0°N 18.7°E, H=10 04 32, h=0 (ISC), Dc=7.5°.
	e	06 47	
	e	07 26	
	ei	07 36.5	
	eiSn	07 56	
	ei	08 33	
9	ePg	14 07 49	D=2.4°.
	eiSg	08 19	
9	eiPKP	14 33 25.4	D, West of Tonga 20.2°S 178.4°W, H=14 14 41.2, h=558 km(ISC), m=4.5 ISC, Dc=148.5°.
	ePKP2	33 30.2	
10	eiPKIKP	01 40 44	D. West of Tonga 17.4°S 178.7°W, H=01 22 03.8, h=545 km(ISC), m=4.2 ISC, Dc=145.8°.
10	e	03 48 22	France 47.3°N 6.5°E, H=03 45 17, h=0 km(ISC), Dc=6.2°.
	eiSg	48 28.5	
10	ePg	08 21 12	D=1.4°.
	iSg	21 30	
10	eiPg	08 32 53.3	D=1.°.
	i	33 03.3	
	iSg	33 06.8	
10	eiPKIKP	10 20 32	Kermadec Islands 30.6°S 177.7°W, H=10 00 36, h=19 km(ISC), m=5.3 ISC, Dc=158.5°.
	iPKP2	21 07.2	
10	eiPg	11 42 29	
	eiSg	42 44	
10	eiPn	13 31 09.8	Austria 46.5°N 13.6°E, H=13 30 17, h=29 km(ISC), Dc=3.6°.
	i(Pg)	31 20.3	
	iSn	31 54.3	
	iSg	32 08.8	
10	iP	16 25 11.3	C.S.W. Ryukyu Islands 24.3°N 125.2°E, H=16 12 42.3, h=32 km(ISC), m=5.7 ISC, Dc=84.0°, TPV=2.3 s, A=444.4 mu, mPV=6.2 PRU, QmH:24 s 5.5 u, RmH:16 s 9.2 u, MLH=6.4 PRU, RmV:16 s 6 u, PH:4 s 0.8 u, mPH=6.5 PRU, FV:4 s 1 u, mPV=6.3 PRU.
	ei	25 23	
	eiPP	28 16	
	eiS	35 31.3	
	ei	35 48	
	eiPS	36 22	
	Q	57	
	Qm	58.5	
	R	17 00	
	Rm	07	
10	eiP	22 16 48.5	Ryukyu Islands 24.9°N 125.3°E, H=22 04 25.0, h=58 km(ISC), m=5.2 ISC, Dc=83.5°, TPV=1.2 s, A=31.5 mu, mPV=5.2.
11	e(Sn)	16 16 07	Austria 47.2°N 10.8°E, H=16 14 29(BCIS), Dc=3.7°.
	eiSg	16 19.4	
11	eiPKP2	23 05 42.4	Tonga 19.4°S 173.3°W, H=22 45 52.0, h=8 km(ISC),

Date	Phase	h m s	Remarks
	ei	23 05 49.5	m=5.4 ISC, Dc=148.8°.
	ei	06 04	
	ei	07 07	
12	eP	00 09 01.2	Turkey 39.3°N 41.6°E, H=00 04 10.3, h=40 km(ISC),
	ei	09 17	m=4.6 ISC, Dc=21.9°.
12	eiP	03 00 02	Mediterranean Sea 35.5°N 22.5°E, H=02 56 22, h=7 km(ISC). m=5.0 ISC, Dc=15.6°, LmH:11 s 2.5 u, MLH=4.7.
	ei	00 11.5	
	eiPP	00 17	
	ei	01 05	
	eiS	03 07.2	
	eL	04 20	
	Lm	06.9	
12	ei	08 26 39.2	
12	eiPg	14 00 12	D=1.3°.
	iSg	00 29.2	
12	eiPKIKP	17 56 53	C. Loyalty Islands 21.5°S 170.5°E, H=17 37 26.9, h=129 km(ISC), m=5.2 ISC, Dc=145.9°.
	ei	57 01	
	eipPKP2	57 23.8	
12	iP	18 56 54.8	D.E. Western Caucasus 44.7°N 37.3°E, H=18 53 05, h=2 km(ISC), m=5.5 ISC, Dc=16.3°, TPV=2.2 s, A=590.0 mu, mPV=5.3, LmH:22 s 9.7 u, MLH=4.9.
	eiPP	57 01.1	
	eiPP	57 11	
	e	57 34	
	eiS	19 00 07	
	L	02	
	Lm	04	
12	eiPKIKP	21 59 47.6	C. Tonga 20.6°S 174.4°W, H=21 39 57.9, h=33 km(ISC), m=4.7 ISC, Dc=149.9°.
13	eP	06 34 01	Nicaragua 12.6°N 87.8°W, H=06 21 00.1, h=68 km(ISC),
	ePP	37 28	m=5.2 ISC, Dc=86.2°.
13	eiP	10 39 48.5	North Atlantic Ocean 56.8°N 34.2°W, H=10 34 05,
	ei	40 02	h=45 km(ISC), m=4.7 ISC, Dc=13.3°.
13	eiPg	12 54 00	D=1.7°.
	eiSg	54 23	
13	e	14 57 39	
	e	58 22	
14	eiP	06 31 03.4	C. Japan 35.3°N 140.3°E, H=06 18 43.2, h=38 km(ISC),
	eiPcP	31 12	m=5.1 ISC, Dc=82.5°, TPV=1.1 s, A=24.5 mu, mPV=5.3.
14	eiPKIKP	07 43 21.3	D. Tonga 15.3°S 174.0°W, H=07 24 03, h=162 km(ISC), m=4.4 ISC, Dc=144.7°.
14	eiPg	08 54 04.5	D=1°.
	iSg	54 07.5	

Date	Phase	h m s	Remarks
14	eiP	10 09 55.5	C. Kurile Islands 45.6°N 151.8°E, H=09 57 59, h= 25 km(ISC), m=4.5 ISC, Dc=77.8°.
14	eiP	12 29 47	D. Gulf of Alaska 56.2°N 149.9°W, H=12 18 16.8, h= 32 km(ISC), m=5.0 ISC, Dc=73.4°.
14	iPg iSg	13 59 45.1 14 00 05.6	D=1.6°.
14	eiPn eiPg eiSg	15 55 30 55 36 56 12.5	Poland 50.1°N 18.4°E, H=15 54 47.6, h=13 km(ISC), Dc=2.5°.
14	eiP ei	18 01 24 01 37	
14	iP ei	18 18 46.9 20 35	C. Aleutian Islands 53.2°N 171.0°E, H=18 07 02, h=15 km(ISC), m=5.2 ISC, Dc=75.3°.
15	eP	02 33 44	North Atlantic Ridge 35.4°N 36.4°W, H=02 26 15.4, h=33 km(ISC), m=4.6 ISC, Dc=39.4°.
15	eiPg eiSg	08 08 16.5 08 41	D=1.8°.
15	eiP ei	08 11 05.3 11 46	C. Leeward Islands 17.0°N 61.5°W, H=07 59 58.8, h=62 km(ISC), m=5.3 ISC, Dc=68.2°, TPV=1.5 s, 41 mu, mPV=5.1.
15	ei PKIKP	08 56 15.4	West of Tonga 20.3°S 178.5°W, H=08 37 35.0, h= 609 km(ISC), m=4.4 ISC, Dc=148.6°.
15	ei ei iSg	12 46 08 46 30.5 46 50	
15	iPg eiSg Lm Lm	13 57 36.4 57 45.9 57 52 58 04	Czechoslovakia 49.6°N 13.7°E. Explosion of 20 Tons, H=13 57(PRU), Dc=0.7°.
15	eiPn eiPg ei eiSg	14 00 53.5 01 03 01 47 01 49	Austria 47.6°N 11.1°E. Explosion of 11.1 Tons, H=14 00 01(CLL), Dc=3.3°.
15	eiP	20 40 15	Philippine Islands 5.2°N 126.9°E, H=20 26 18, h= 59 km(ISC), m=4.8(ISC), Dc=100.2°.
15	e	23 53 33	Greece 38.9°N 21.7°E, H=23 50 12.1, h=34 km(ISC), m=4.4 ISC, Dc=12.1°.
16	eiPg eiSg	07 37 59 38 23.5	D=1.6°.

Date	Phase	h m s	Remarks
16	eiPg iSg	11 08 51.4 09 08.4	D=1.3°.
16	eP	19 51 20	Kirgiziya-Sinkiang 40.8°N 74.0°E, H=19 43 28.3, h=33 km(ISC), m=4.7 ISC, Dc=41.8°.
17	eiP	08 57 15	Southern Alaska 62.0°N 152.1°W, H=08 46 26.5, h=107 km(ISC), m=4.5 ISC, Dc=67.9°.
17	ePKP epPKP	16 24 02 24 56	Tonga 19.6°S 175.5°W, H=16 04 35.4, h=202 km(ISC), m=4.2 ISC, Dc=148.6°.
17	e	16 58 25	
18	eiP	02 04 34	Carlsberg Ridge 8.2°N 58.6°E, H=01 55 01,8, h= 33 km(ISC), m=4.7 ISC, Dc=55.4°.
18	iP e	04 51 29.4 51 45	C. Japan 38.4°N 141.9°E, H=04 39 21.6, h=55 km (ISC), m=4.9 ISC, Dc=80.5°.
18	eiP	10 08 09	Arabian Sea 13.0°N 57.5°E, H=09 59 10.0, h=33 km (ISC), m=4.9 ISC, Dc=50.8°.
18	ePg eiSg	14 08 12 08 34.5	D=1.6°.
18	eiP	19 47 14	Carlsberg Ridge 8.2°N 58.7°E, H=19 37 41.3, h= 33 km(ISC), m=4.6 ISC, Dc=55.5°.
19	eiP ei ei eiPPP eiS ei ei Q Qm Rm Rm	01 52 14 52 44 55 25 56 37 02 01 32 02 16 06 16 15.5 20.5 24.5 28	D.N. Komandorsky Islands 56.2°N 164.8°E, H= 01 40 55.0, h=20 km(ISC), m=5.3 ISC, Dc=71.3°, TPV=2.0 s, A=67.5 mu, mPV=5.4, QmH:29 s 4.2u, RmH:20 s 15 u, RmH:14 s 14 u, MLH=6.4, RmV:14 s 5 u.
19	eiPg eiSg	11 57 38.5 57 55	D=1.3°.
19	eP	14 34 40	Japan 30.1°N 131.7°E, H=14 22 19, h=47 km(ISC), m=4.5 ISC, Dc=82.8°.
19	iP ei eSKS Lm	19 32 30.6 32 43.5 42 36 20 12.7	C. Aleutian Islands 51.8°N 173.3°W, H=19 20 28, h=3 km(ISC), m=5.4, Dc=78.4°, TPV=1.5 s, A=62.0 mu, mPV=5.5, LmH:19s 1.2 u, MLH=5.3.
20	eP e Lm	10 19 01 22 05 24.3	Greece 38.8°N 21.4°E, H=10 16 06, h=22 km(ISC), m=4.5 ISC, Dc=12.2°, LmN:10 s 2 u, MLH=4.5, LmV: 10 s 1.2 u.

Date	Phase	h m s	Remarks
21	ePKP2	03 53 39	Macquarie Island 52.8°S 160.3°E, H=03 33 09.0, h=33 km(ISC), Dc=158.4°.
21	eiP ePP	04 05 35.3 07 04	C. Eastern Kazakhstan 49.7°N 78.1°E, H=03 57 57.8, h=0 km(ISC), m=5.3 ISC, Dc=39.9°, TPV=1.1 s, A=29.5 mu, mPV=4.9(sp).
21	eiP	09 14 25.7	C. Aleutian Islands 52.0°N 170.1°W, H=09 02 28.0, h=36 km(ISC), m=4.8 ISC, Dc=78.3°.
21	eiP	10 14 46.8	D. Aleutian Islands 51.7°N 173.2°W, H=10 02 47, h=30 km(ISC), m=4.6 ISC, Dc=78.4°.
21	e ei ei(Sg)	12 45 08 45 24 45 31	
21	iPg iSg	16 13 55.5 13 19.5	D=1.8°.
21	eiP	18 28 51	
21	eiPKIKP iPKP2 eipPKP2	18 48 49.3 48 51.5 51 09	West of Tonga 17.9°S 178.6°W, H=18 30 15.0, h=589 km(ISC), m=5.6 ISC, Dc=146.3°.
22	eiP ei ei	03 48 31 49 09.3 50 05	China 42.9°N 84.5°E, H=03 39 58, h=19 km(ISC), m=4.9 ISC, Dc=47.1°.
22	ePKHKP ei ePP ei	08 44 55 45 54.5 48 01 48 43	New Hebrides 16.0°S 168.0°E, H=08 25 55.1, h=190 km(ISC), m=5.3 ISC, Dc=139.8°.
22	iPg iSg Lm	10 22 47.3 22 48.8 22 50.5	Czechoslovakia 50.0°N 14.4°E. Explosion of 7 Tons, H=10 22(PRU), Dc=0.1°.
22	iP eiPcP eS eiSS ei eL Lm	10 29 19.3 29 28 39 22 44 40 48 48 57 11 10	C. S. Aleutian Islands 51.7°N 173.5°W, H=10 17 17, h=8 km(ISC), m=5.5 ISC, Dc=78.5°, LmH:20 s 2.2 u, MLH=5.5 PRU.
22	eiPg ei(Sg)	12 49 40.8 50 04.8	
22	ePKP2	13 26 39	Balleny Islands region 64.7°S 175.9°E, H=13 05 48, h=37 km(ISC), Dc=162.2°.
23	eiP e(PcP)	03 49 53.8 50 07	Aleutian Islands 51.7°N 173.6°W, H=03 37 51, h=7 km(ISC), m=4.9 ISC, Dc=78.5°.

Date	Phase	h m s	Remarks
23	e	05 31 42	Greece 38.9°N 21.7°E, H=05 28 33.2, h=20 km(ISC), Dc=12.1°.
23	eP	08 38 17	Aleutian Islands 51.9°N 173.7°W, H=08 26 12, h=31 km(ISC), m=4.6 ISC, Dc=78.2°.
23	iPg i ei	10 00 29.3 00 39.3 00 51	Czechoslovakia 50.4°N 14.2°E. Explosion of 4.6 Tons H=10 00(PRU), Dc=0.4°.
23	eiP eiPcP e e eL Lm	14 43 48 43 57 54 34 59 06 15 12 24	C. Aleutian Islands 51.7°N 173.5°W, H=14 31 51.2, h=51 km(ISC), m=5.4 ISC, Dc=78.5°, TPV=1.1 s, A=35.1 mu, mPV=5.4, LmH:19 s 1.9 u, MLH=5.5.
23	eiP ei	20 23 57.8 24 11.5	Aleutian Islands 51.8°N 173.5°W, H=20 11 58, h=21 km(ISC), m=5.0 ISC, Dc=78.4°.
24	eiPKIKP ei ei	09 11 50 12 03 12 24	Samoa 16.3°S 172.7°W, H=08 52 11.9, h=33 km(ISC), m=4.6 ISC, Dc=145.9°.
24	eiPKHKP	14 19 32	Loyalty Islands 21.7°S 169.8°E, H=14 00 00, h=33 km(ISC), Dc=145.7°.
24	eiPKIKP i i	17 37 49.3 37 54.3 38 34.8	Tonga 20.6°S 175.6°W, H=17 18 20.0, h=138 km(ISC), m=5.0 ISC, Dc=149.6°.
25	eiP	09 30 35.5	C. Aleutian Islands 52.1°N 170.0°W, H=09 18 37.9, h=35 km(ISC), m=4.7 ISC, Dc=78.2°, TPV=1.2 s, A=17.5 mu, mPV=5.1.
26	eiPg iSg	03 33 13 33 25.5	
26	eiP	03 59 47.5	D. Komandorsky Islands 56.2°N 164.6°E, H=03 48 26, h=8 km(ISC), m=4.7 ISC, Dc=71.3°, TPV=1.1 s, A=16.2 mu, mPV=5.1.
26	iPKP	06 03 06.5	C. West of Tonga 18.0°S 178.4°W, H=05 44 31.3, h=598 km(ISC), m=4.3 ISC, Dc=146.4°.
26	eiP	12 58 40	Japan 42.5°N 140.8°E, H=12 47 03.0, h=143 km(ISC), Dc=76.6°.
26	eiP	13 02 17	Aleutian Islands 51.9°N 173.5°W, H=12 50 17, h=14 km(ISC), m=4.3 ISC, Dc=78.3°.
26	eiPKP1 iPKP2 ePP	22 59 34.6 59 53.1 23 03 29	D. Kermadec Islands 27.6°S 178.8°W, H=22 39 49.8, h=162 km(ISC), m=5.1 ISC, Dc=159.8°.

Date	Phase	h m s	Remarks
27	eP	05 03 14	Chile 24.1°S 70.3°W, H=04 48 59.6, h=34 km(ISC),
	e	06 32	m=5.6 ISC, Dc=105.1°, LmH:20 s 0.9 u, MLH=5.1.
	eiPP	07 34	
	eSKS	13 48	
	ei	15 22	
	eL	37	
	Lm	49.5	
27	ei	12 44 38.5	
	ei	44 45	
	eiSg	45 07.8	
27	eiPg	13 02 15.3	D=1.4°.
	iSg	02 33.3	
27	ei	14 32 56.3	
	eiSg	33 24.3	
27	eiP	14 55 15	Western Persia 32.7°N 48.8°E, H=14 49 03.8, h=
	ei	55 30.2	45 km(ISC), m=5.1 ISC, Dc=30.6°, TPV=1.9 s, A=
	eS	15 00 20	38.4 mu, mPV=5.0, LmN:22 s 1.3 u, MLH=4.6 PRU.
	e	03 30	
	Lm	07.5	
27	eiPg	18 53 38.5	
	ei(Sg)	54 09.2	
28	eiPKP	01 38 10.5	New Hebrides 17.2°S 167.6°E, H=01 18 27.2, h=
	ei	41 12	13 km(ISC), m=5.0 ISC, Dc=140.7°.
28	eiPn	02 01 03.8	Yugoslavia 43.2°N 17.9°E, H=01 59 20, h=69 km(ISC),
	ei	01 11	m=4.7 ISC, Dc=7.2°.
	iPg	01 39.5	
	eiSn	02 23.5	
	ei	02 39	
28	eiP	08 08 28.5	
28	iPg	09 00 42	D=1.5°.
	iSg	01 02	
28	iPg	11 00 16.6	Explosion.
	eiSg	00 27.1	
	Lm	00 35	
28	iPg	12 00 14.5	D=1.6°.
	iSg	00 36	
28	eiPKIKP	12 27 41	Kermadec Islands 29.3°S 177.3°W, H=12 07 52, h=
	eiPKP2	28 13.5	57 km(ISC), m=5.4 ISC, Dc=157.5°.
28	e	22 43 24	
	e	44 11	
29	ei(Pg)	00 35 50	
	eiSg	36 23.8	

Date	Phase	h m s	Remarks
29	eP	08 27 41	Southern Persia 28.3°N 51.6°E, H=08 20 46.8, h=
			38 km(ISC), m=4.7 ISC, Dc=35.5°.
29	eiPKIKP	12 05 25	Salomon Islands 10.6°S 163.1°E, H=11 46 06, h=
			1 km(ISC), m=5.4 ISC, Dc=132.9°.
29	e	12 43 54	
	ei	44 21.5	
29	ePn	15 05 49	Germany 50.5°N 10.0°E. Explosion of 14.9 Tons,
	iPg	05 56.0	H=15 05 00(BCIS), Dc=3.0°.
	ei	06 04	
	ei	06 30	
	eiSg	06 34	
29	eiP	20 00 01.5	Kurile Islands 46.6°N 152.4°E, H=19 48 12.9, h=
			60 km(ISC), m=4.5 ISC, Dc=77.2°.
29	eiP	22 20 16.5	Japan 36.3°N 141.5°E, H=22 07 59.5, h=48 km(ISC),
	ei	20 28	m=4.7 ISC, Dc=82.1°.
30	ePn	05 21 12.5	Yugoslavia 43.1°N 17.6°E, H=05 19 28,2, H=62 km
	ei	21 24	h=62 km(ISC), m=4.4 ISC, Dc=7.3°.
	e	22 23	
	ei	22 43	
30	e	13 36 02	
	eiSg	36 39	
30	eiPg	13 37 00	D=2°.
	ei	37 22	
	iSg	37 25.5	
30	eP	17 52 52.5	Philippine Islands 9.0°N 126.7°E, H=17 39 20, h=
			45 km(ISC), m=5.2 ISC, Dc=97.0°.
30	ePg	23 52 52	Poland 50.3°N 19.0°E, H=23 52 00.2(WAR), Dc=2.9°.
	ei	53 10.5	
	eiSg	53 28	
31	eiPKP	12 09 02	New Hebrides 19.8°S 173.6°E, H=11 49 27, h=32 km
	i	09 06.5	(ISC), m=4.9 ISC, Dc=145.5°.
31	eP	15 26 18	Uganda 0.7°N 30.0°E, H=15 17 15.3, h=6 km(ISC),
			m=5.0 ISC, Dc=50.9°.

Date	Phase	h m s	Remarks
1	ePKIKP	03 42 10	Solomon Islands 10.2°S 161.1°E, H=03 23 03.1, h=
	ePP	44 29	70 km(USCGS), Dc=131.6°.
1	iPg	10 39 59.8	D=1°.
	iSg	40 12.3	
1	e	14 53 22	
	ei	53 31.3	
	iSg	53 54.3	
1	eiP	15 30 45.2	
1	eiP	19 18 11	West Pakistan 30.0°N 68.7°E, H=19 09 55.0, h=
	i	18 17	24 km(ISC), m=5.5 ISC, Dc=45.0°, TPV=1.2 s, A=
	eiPP	19 50	26.2 mu, mPV=5.0, QmN:23s 6.4 u, RmH:20s 18 u,
	eS	24 54	MLH=6.1°.
	ei	25 26	
	eiSS	28 26	
	Q	35.5	
	Qm	36.3	
	Rm	38.5	
1	eiPKIKP	20 05 04.2	C. Tonga 19.8°S 174.0°W, H=19 45 16.7, h=33 km(ISC),
	ei	05 19	m=4.5 ISC, Dc=149.2°.
1	eiP	20 39 10.2	C. West Pakistan 30.0°N 68.6°E, H=20 30 56.5, h=
	eiPP	40 52	29 km(ISC), m=5.4 ISC, Dc=44.9°, LmN:20 s 10 u,
	eS	45 52	MLH=5.8.
	Lm	59.5	
1	eiP	20 43 59.6	Kurile Islands Region 44.7°N 150.4°E, H=20 32 01.7,
	i	44 13.6	h=21 km(ISC), m=5.2 ISC, Dc=78.1°, TPV=1.5 s, A=
			107 mu, mPV=5.8.
1	eiP	21 11 14	D. West Pakistan 30.1°N 68.6°E, H=21 03 00.9,
	i	11 27.5	h=40 km(ISC), m=5.7 ISC, Dc=44.8°, TPV=2.0 s, A=
	e	13 24	167.2 mu, mPV=5.6, LmH:20 s 68 u, MLH=6.7, LmH:
	eiS	17 58	14 s 32 u, LmV: 14 s 22 u.
	eSS	21 20	
	eL	29	
	Lm	32	
	Lm	37	
1	eP	22 39 09	West Pakistan 29.9°N 68.8°E, H=22 30 55, h=31 km
	eiPP	40 57	(ISC), m=5.1 ISC, Dc=45.1°.
2	eiP	05 49 52	West Pakistan 30.0°N 68.7°E, H=05 41 33, h=2 km
			(ISC), m=5.0 ISC, Dc=45.0°.
2	eP	09 27 17	West Pakistan 29.9°N 69.2°E, H=09 18 59.7, h=
			37 km(ISC), m=5.0 ISC, Dc=45.3°.
2	eiP	19 00 50.5	Japan 36.6°N 138.2°E, H=18 48 35, h=9 km(ISC),
	eL	30	m=4.7 ISC, Dc=80.5°, LmH:17 s 1.2 u.
	Lm	34	

Date	Phase	h m s	Remarks
3	eP	04 37 41	Kurile Islands 45.0°N 150.3°E, H=04 25 45.8, h=
	ePcP	37 54	42 km(ISC), m=4.5 ISC, Dc=77.9°.
3	eiPn	11 40 49.5	Austria 47.8°N 16.3°E, H=11 40 11(BCIS), Dc=2.5°.
	eiPg	40 53.5	
	i	41 19.5	
	eiSg	41 24.5	
3	e	12 46 52	
	ei	47 14	
	ei(Sg)	47 39	
	ei	48 01	
	ei	48 22	
4	eiPg	10 37 57.5	D=1°.
	iSg	38 10.5	
4	ePg	12 42 39	D=1.7°.
	eiSg	43 02	
4	ei	12 47 27.5	
	i	47 32	
	iSg	47 53.5	
4	iPKP	15 44 57.0	C. Tonga 17.6°S 174.9°W, H=15 25 38.4, h=219 km
			(ISC), m=4.5 ISC, Dc=146.8°.
4	eP	19 12 36	Kurile Islands 45.3°N 149.7°E, H=19 00 46, h=
			47 km(ISC), m=4.3 ISC, Dc=77.4°.
5	eiP	01 11 56.8	C. Kashmir-Tibet 32.8°N 79.6°E, H=01 03 02.1,
	eiPP	13 54	h=31 km(ISC), m=5.2 ISC, Dc=50.2°.
5	iP	04 05 34.9	C. Eastern Kazakhstan 49.8°N 78.1°E, H=03 57 57.9,
	ei	06 54	h=0 km(ISC), m=5.4 ISC, Dc=39.8°, TPV=1.0 s, A=
			26 mu, mPV=4.8.
5	eiP	04 37 20	Japan 44.5°N 141.1°E, H=04 26 03.0, h=245 km(ISC),
	epP	38 16	m=4.3 ISC, Dc=75.1°.
5	iPg	04 44 01.8	
	iSg	44 25.8	
5	ePKIKP	04 52 14	Solomon Islands 11.1°S 162.7°E, H=04 33 02.5, h=
	eiPP	54 35	52 km(ISC), m=5.5 ISC, Dc=133.2°.
5	ei	12 44 00	
	i	44 58	
	ei	45 28	
5	eiPg	15 27 05.9	D=1.1°.
	iSg	27 20.9	
5	eiPg	17 32 56	D=1.7°.
	iSg	32 18.5	

Date	Phase	h m s	Remarks
5	eiP	17 49 44.5	Yugoslavia 42.2°N 18.8°E, H=17 47 43.4, h=35 km
	ei	50 19	(ISC), m=5.0 ISC, Dc=8.4°, LmH:10 s 1.1 u, MLH=
	eiS	51 18.5	3.8.
	ei	51 33.2	
	ei	51 49.4	
	Lm	53 18	
5	eiP	20 12 07	Bonin Islands 28.6°N 139.6°E, H=20 00 04.2, h=
			429 km(ISC), m=4.6 ISC, Dc=87.9°.
6	eiP	02 33 08.5	C. Yugoslavia 42.2°N 18.8°E, H=02 31 03, h=3 km
	ei	33 17.3	(ISC), m=5.2 ISC, Dc=8.4°, LmH:12 s 5.6 u, MLH=
	ei	33 57.3	4.5, LmH:10 s 4.6 u, LmV: 10 s 1.6 u.
	eiS	34 42	
	ei	34 57	
	i	35 13.5	
	Lm	35.9	
	Lm	36 42	
6	eiP	05 54 01	Yugoslavia 42.3°N 19.0°E, H=05 52 01.8, h=48 km
	ei	54 19	(ISC), m=4.8 ISC, Dc=8.3°, LmH:8 s 1.6 u, LmH:
	eiS	55 33.4	10 s 2.2 u, MLH=4.1, LmV:10 s 0.7 u.
	ei	55 50.8	
	Lm	56 44	
	Lm	57 36	
6	eP	18 35 43	Southern Greece 37.9°N 22.2°E, H=18 32 32, h=
	ei	36 17	25 km(ISC), m=4.4 ISC, Dc=13.3°.
6	eiP	19 45 17.7	C. Kurile Islands 44.8°N 150.3°E, H=19 33 18, h=
	eiPcP	45 32	10 km(ISC), m=4.9 ISC, Dc=78.1°, TPV=1.5 s, A=
	ei	45 40	40.5 mu, mPV=5.3.
6	eP	20 17 41	Greenland Sea 73.2°N 6.4°E, H=20 12 33.0, h=33 km
			(ISC), m=4.8 ISC, Dc=23.6°.
6	eiP	20 31 26	Kurile Islands 44.7°N 150.3°E, H=20 19 29.6, h=
			40 km(ISC), m=4.7 ISC, Dc=78.1°, TPV=1.2 s, A=
			17.5 mu, mPV=5.1.
6	eP	21 16 26	Aleutian Islands 51.9°N 175.3°E, H=21 04 32, h=
	e	17 28	22 km(ISC), m=5.0 ISC, Dc=77.2°.
7	eiP	02 25 10.1	D.N.E. Aleutian Islands 50.6°N 171.2°W, H=02 13 04
	ei	26 25	h=29 km(ISC), m=6.3 ISC, Dc=79.7°, TPV=2.5 s, A=
	eiPP	28 15	1733.3 mu, mPV=6.7, QmH:28 s 17 u, RmH:24 s 24 u,
	ePPP	29 51	RmH:20 s 22 u, MLH=6.5, PH:10 s 6 u, MPH=7.1, PV:
	eiS	35 11	6 s 4 u, MPV=6.7, SH:11 s 10.7 u, MSH=6.9, SV:
	ei	35 37	11 s 3 u.
	eiSS	40 25	
	eiSSS	44 09	
	Q	52.4	
	Qm	54	
	Rm	03 00.5	
	Rm	05	

Date	Phase	h m s	Remarks
7	eP	02 51 57	
	ei	52 06	
7	eiPKP	14 01 01.5	D. South of Fiji 23.9°S 179.8°W, H=13 42 06.7, h=
	eiPKP2	01 13.5	524 km(ISC), m=4.6 ISC, Dc=151.7°.
7	eiP	14 23 01.5	Gulf of Alaska 59.6°N 144.6°W, H=14 11 55.7, h=
	e	24 05	33 km(ISC), m=4.8 ISC, Dc=69.5°.
7	eiP	14 34 10.5	Southern Greece 36.3°N 22.3°E, H=14 30 46, h=
	ei	34 17	49 km(ISC), m=4.6 ISC, Dc=14.8°.
	eS	37 05	
7	eP	17 49 16	Gulf of California 31.7°N 114.5°W, H=17 36 28.5,
	ei	49 27	h=32 km(ISC), m=5.7 ISC, Dc=87.0°, LmH:18s 22u,
	ePP	52 39	MLH=6.6, LmH:16 s 17 u, LmV:16 s 7.5 u.
	eiS	59 45	
	ei	18 00 59	
	eSS	05.5	
	e	09 35	
	eL	20	
	Lm	28	
	Lm	36	
7	iP	20 30 32.5	C. Japan 42.3°N 143.1°E, H=20 18 41.7, h=68 km(ISC),
	ei(sP)	30 56	m=5.0 ISC, Dc=77.6°, TPV=0.8 s, A=28.5 mu, mPV=
			5.5.
8	eP	00 49 31	Japan 36.6°N 138.3°E, H=00 37 20.5, h=31 km(ISC),
			m=4.5 ISC, Dc=80.5°.
8	e	02 06 19	Yugoslavia 42.5°N 18.7°E, H=02 04 06, h=0 km(ISC),
	e	07 21	Dc=7.9°.
	e	07 54	
	ei	08 03	
8	eP	08 16 03	Revilla Gigedo Islands 19.4°N 108.0°W, H=08 02 48.5,
	e	16 23.5	h=48 km(ISC), m=5.3 ISC, Dc=95.4°, LmH:19 s 2.6 u,
	eiPP	19 55	MLH=5.7.
	eiSKS	26 41	
	eL	46	
	Lm	59	
8	ei	13 15 40	
8	e	13 33 20	
	eiSg	33 51	
9	eP	01 07 38	Yugoslavia 42.2°N 19.0°E, H=01 05 35, h=15 km(ISC),
	ei	08 52	m=4.5 ISC, Dc=8.4°, LmN:9 s 0.5 u, LmH=3.6.
	ei	09 28	
	Lm	11 12	
9	eiP	03 36 44	Albania 40.2°N 19.9°E, H=03 34 15.1, h=38 km(ISC),
	ei	37 33	m=4.9 ISC, Dc=10.5°, LmH:14 s 1.3 u, LmN:14 s
	ei	39 10	2.5 u, MLH=4.4.

Date	Phase	h m s	Remarks
	Lm	03 40.5	
	Lm	42	
9	iPg	08 07 15.2	
	iSg	07 26.2	
	Lm	07 35	
9	eP	11 25 30	Costa Rica 9.2°N 83.9°W, H=11 12 41, h=45 km(ISC), m=4.5 ISC, Dc=88.4°.
9	ePKIKP	17 50 22.5	Tonga 20.9°S 174.8°W, H=17 30 38.9, h=51 km(ISC), m=4.6 ISC, Dc=150.0°.
9	ePKP	22 45 16	New Hebrides 17.2°S 167.5°E, H=22 25 42.7, h=33 km (ISC), m=5.1 ISC, Dc=140.8°.
9	ePKP2	23 51 27	Tonga region 23.1°S 175.9°W, H=23 31 23.5, h=33 km (ISC), m=4.6 ISC, Dc=152.0°.
10	eiPKIKP	05 20 43.5	D. Tonga 20.3°S 175.3°W, H=05 01 10.5, h=107 km
	iPKP	20 49.0	(ISC), m=5.6 ISC, Dc=149.3°.
	eisPKP	21 28	
	eiPP	24 21	
10	iPg	12 00 41.2	Explosion of 21.9 Tons, Czechoslovakia 50.6°N
	iSg	00 50.7	14.0°E, H=12 00(PRU), Dc=0.7°.
	i	00 55.8	
	Lm	01 02	
10	eiPg	12 48 26.5	D=1.6°.
	eiSg	48 48.5	
10	ePKIKP	12 52 38	New Britain 5.5°S 151.8°E, H=12 33 41, h=27 km
	e	13 04 25	(ISC), m=5.2 ISC, Dc=123.0°, LmH:20 s 1.8 u.
	eL	34	
	Lm	46.7	
10	eiP	15 26 06.4	Southern Greece 36.4°N 22.2°E, H=15 22 40.2, h=
	ei	26 11	39 km(ISC), m=4.6 ISC, Dc=14.7°, LmN:11 s 1 u,
	eiPP	26 21.2	MLH=4.3.
	ei	27 16.5	
	Lm	32.5	
10	eiP	21 30 46.4	
10	iP	22 13 14.8	C.Tadzhikistan 38.4°N 69.5°E, H=22 05 37.5, h=
	ei	14 02.3	18 km(ISC), m=5.2 ISC, Dc=40.2°, TPV=1.0 s, A=
	eiPP	14 54	53.4 mu, mPV=5.1, LmN:14 s 0.6 u, MLH=4.8.
	Lm	30.4	
11	eP	00 26 44	Ionian Sea 37.7°N 21.0°E, H=00 23 40.8, h=48 km
	eiPP	26 56	(ISC), m=4.6 ISC, Dc=13.2°, LmN:14 s 0.7 u.
	Lm	32.8	

Date	Phase	h m s	Remarks
11	eP	04 37 10	Greece 38.7°N 21.8°E, H=04 34 14, h=6 km(ISC, m=
	ei	38 41.5	4.6 ISC, Dc=12.4°, LmH:10 s 2.5 u, MLH=4.5.
	ei	40 11	
	eL	41 16	
	Lm	42 35	
11	eiPKIKP	05 32 24	C. Tonga 19.3°S 173.8°W, H=05 12 44, h=44 km(ISC),
	iPKP	32 28.8	m=5.4 ISC, Dc=148.2°.
	ei	32 52	
	ei	34 11	
	ePKS	35 59	
11	eiPKIKP	08 58 44.2	West of Tonga 18.1°S 178.3°W, H=08 40 06.3, h=
			574 km(ISC), m=4.0 ISC, Dc=146.6°.
11	ePKIKP	09 13 42	West of Tonga 18.0°S 178.5°W, H=08 55 05, h=581 km
			(ISC), Dc=146.5°.
11	iP	10 57 51	C. Aleutian Islands 52.6°N 169.7°W, H=10 45 58.6,
	e	58 11	h=54 km(ISC), m=5.4 ISC, Dc=77.7°, TPV=1.0 s, A=
			18.2 mu, mPV=5.2.
11	eiPKP	20 59 51.2	D. Tonga region 23.5°S 175.6°W, H=20 39 55.8, h=
	ei	21 00 11	33 km(ISC), m=5.2 ISC, Dc=152.4°.
11	ePKP	22 36 11	Tonga region 23.6°S 175.4°W, H=22 16 13.7, h=33 km
			(ISC), Dc=152.6°.
11	ePKP	23 37 12	Tonga region 23.5°S 175.5°W, H=23 17 18.5, h=33 km
			(ISC), m=4.4 ISC, Dc=152.5°.
11	ePKIKP	23 45 25	Tonga region 23.4°S 175.8°W, H=23 25 38, h=38 km
	ei	45 31	(ISC), m=5.4 ISC, Dc=152.2°, LmH:18 s 1.3 u, MLH=
	ePP	49 10	5.8.
	eL	00 42	
	Lm	01 03	
12	ePKIKP	04 19 23	South of Fiji 22.4°S 176.0°W, H=03 59 49.9, h=
	iPKP	19 29.3	128 km(ISC), m=5.2 ISC, Dc=151.1°.
	eipPKP	20 02.7	
	ePP	23 03	
12	eiPKP	14 49 54	West of Tonga 20.8°S 178.8°W, H=14 31 09.4, h=
			568 km(ISC), m=4.2 ISC, Dc=149.0°.
12	eiPKP1	14 57 47.2	C. Tonga 23.8°S 175.6°W, H=14 37 49.1, h=5 km(ISC),
	ePKP2	58 06	m=4.9 ISC, Dc=152.7°.
12	eP	15 42 28	North Atlantic Ocean 53.8°N 35.2°W, H=15 36 17.2,
			h=33 km(ISC), m=4.5 ISC, Dc=30.4°.
12	iP	19 34 11.6	D. Japan 34.1°N 137.5°E, H=19 22 25.5, h=336 km
	ei	35 13	(ISC), m=4.8 ISC, Dc=82.3°, TPV=1.0 s, A=53.2 mu,
	ePP	37 25	mPV=5.3.

Date	Phase	h m s	Remarks
12	eiP eiPcP	20 28 55.5 29 05.6	South of Alaska 52.7°N 161.5°W, H=20 17 00.9, h=32 km(ISC), m=5.5 ISC, Dc=77.7°, TPV=1.4 s, A=56.2 mu, mPV=5.5.
13	eiPKIKP	02 43 41.6	Loyalty Islands 22.0°S 170.4°E, H=02 24 05, h=30 km(ISC), Dc=146.2°.
13	eiPKIKP	02 59 24	Loyalty Islands region 22.8°S 170.6°E, H=02 39 42 (NOU), Dc=147.0°.
13	eiPKIKP	04 21 02.5	Loyalty Islands 22.0°S 170.5°E, H=04 01 22, h=20 km(ISC), Dc=146.3°.
13	ePKIKP	06 04 31	Loyalty Islands 22.0°S 170.6°S, H=05 44 51, h=21 km(ISC),Dc=146.3°.
13	ei	07 03 31.5	
13	eiP	07 04 01	
13	eiPKIKP ei	09 38 11.5 40 04	C. Loyalty Islands 22.2°S 170.2°E, H=09 18 38, h=53 km(ISC), Dc=146.3°.
13	eiPg ei ei Lm	11 00 11.5 00 18.5 00 19.5 00 38	
13	ePg eiSg	11 50 24 50 55	D=2.3°.
13	ePKIKP	12 31 11	Loyalty Islands 21.8°S 170.7°E, H=12 11 31, h=33 km(ISC), Dc=146.2°.
13	eiPg iSg	13 01 34 01 53	D=1.5°.
13	eiPg ei iSg	13 35 45 36 01.5 36 11	D=2°.
13	ePKIKP	18 05 20	Loyalty Islands 22.2°S 170.2°E, H=17 45 37(NOU), Dc=146.1°.
13	eiPKIKP	20 13 32.5	Loyalty Islands 21.7°S 170.8°E, H=19 53 53, h=33 km(ISC), Dc=146.1°.
13	eiPKIKP	21 16 39.5	Loyalty Islands 22.2°S 170.0°E, H=20 57 00(NOU), Dc=146.2°.
13	e ei	23 23 36 24 11.5	
14	eiPKIKP ei	05 10 45.5 11 22	Loyalty Islands 21.9°S 169.8°E, H=04 51 07.6, h=15 km(ISC), m=4.7 ISC, Dc=145.9°.

Date	Phase	h m s	Remarks
14	e	05 52 27	
14	eiPKP	06 28 30	Loyalty Islands 21.9°S 169.6°E, H=06 08 49, h=111 km(ISC), Dc=145.8°.
14	ePKIKP	08 07 18	Loyalty Islands 22.0°S 170.3°E, H=07 47 36, h=33 km(ISC), Dc=146.2°.
14	ePKIKP	10 22 26.4	Loyalty Islands 22.1°S 170.4°E, H=10 02 47.4, h=33 km(ISC), Dc=146.3°.
14	ePKIKP	12 11 40	Loyalty Islands 22.0°S 170.5°E, H=11 51 58, h=19 km(ISC), Dc=146.3°.
14	eiPg eiSg	13 04 59 05 21	D=1.6°.
14	e eSn ei	21 30 02 31 20 31 45	Northern Italy 44.8°N 10.3°E, H=21 28 48, h=0 km (ISC), Dc=6.1°.
14	eiPKIKP ei	21 38 35.4 38 53.5	Loyalty Islands 21.8°S 170.2°E, H=21 18 52, h=8 km(ISC), Dc=146.0°.
14	ePKP	23 21 26	West of Tonga 21.2°S 179.2°W, H=23 02 42.3, h=585 km(ISC), m=3.9 ISC, Dc=149.3°.
15	iP i	02 24 44 24 51.5	D. Northern India 28.7°N 78.9°E, H=02 15 28, h=5 km(ISC), m=5.6 ISC, Dc=52.4°, TPV=1.2 s, A=95.0 mu, mPV=5.6.
15	eiP ei e eiPP eSKKS ei eSS eSSS eL Lm	02 58 34.4 59 09 03 01 45 02 25 09 13 09 40 15 40 19 14 32 41	Philippine Islands 13.3°N 121.4°E, H=02 45 34, h=24 km(ISC), m=5.5 ISC, Dc=90.5°, LmH:18 s 8 u, MLH=6.2.
15	eP	03 45 25	Ionian Sea 37.3°N 20.1°E, H=03 42 13.7, h=0 km (ISC), Dc=13.4°.
15	eiPg eiSg	10 04 13.4 04 26.5	D=1°.
15	eiP ei eiPP eiS ei eiSSS eL Lm	10 31 00.5 31 49 33 20.5 39 31 40 30.4 46 34 51 59	Carlsberg Ridge 3.7°N 64.0°E, H=10 20 47, h=82 km (ISC), m=5.2 ISC, Dc=62.1°, LmH:22 s 1.7 u, MLH=5.2.

Date	Phase	h m s	Remarks
15	eiPKP	13 16 50	West of Tonga 20.8°S 179.0°W, H=12 58 09.6, h= 622 km(ISC), m=4.3 ISC, Dc=149.0°.
15	eiP	13 47 30.3	C. Southern Alaska 60.3°N 146.0°W, H=13 36 25.1,
	ei	47 50.5	h=17 km(ISC), m=5.3 ISC, Dc=68.9°, TPV=1.2 s, A=
	ePP	50 09	36.5 mu, mPV=5.5, LmH:20 s 1 u, MLH=5.1.
	eS	56 40	
	e	14 01	
	eL	13	
	Lm	20.5	
15	eiP	14 15 41.4	
16	iP	02 23 55.3	C.S.W. Hindu Kush 36.5°N 70.8°E, H=02 16 19.7,
	ei	24 05	h=197 km(ISC), m=5.5 ISC, Dc=42.2°, TPV=1.7 s, A=
	eiPP	25 35.8	338.2 mu, mPV=5.6.
	isPP	26 39.2	
	eiScP	29 14.4	
	iSS	33 18	
16	eiP	02 52 54.3	Jan Mayen Islands 71.2°N 6.3°W, H=02 47 45.3, h= 33 km(ISC), m=4.3 ISC, Dc=23.4°.
16	eiP	03 31 19.5	Greece-Albania 40.0°N 19.6°E, H=03 28 40, h=0 km
	ei	33 44	(ISC), m=4.6 ISC, Dc=10.7°, LmH:13 s 1 u.
	Lm	36	
16	iP	03 56 12.3	C.N. Albania 40.2°N 19.8°E, H=03 53 41.7, h=20 km
	ei	57 46	(ISC), m=4.9 ISC, Dc=10.5°, LmH:10 s 3.8 u, MLH=
	ei	58 25	4.6.
	Lm	04 01	
16	ePKIKP	05 14 05	Loyalty Islands 21.9°S 170.2°E, H=04 54 31, h=
	ei	14 16	47 km(ISC), Dc=146°.
16	e	13 50 32	Greece-Albania 39.5°N 20.6°E, H=13 46 26.7(ATH),
	e	51 40	Dc=11.2°.
16	ePg	14 08 23	D=1.6°.
	eiSg	08 45	
16	eiP	14 34 22.8	Kamchatka 52.1°N 159.5°E, H=14 22 50.1, h=48 km
	eiPcP	34 37.3	(ISC), m=4.4 ISC, Dc=74.0°.
16	eiPg	17 02 49.2	D=1.4°.
	eiSg	03 06.7	
16	eiPKP2	18 07 41.7	Kermadec Islands 27.8°S 177.9°W, H=17 47 42.8, h= 193 km(ISC), m=4.8 ISC, Dc=155.9°.
16	eP	18 14 58	Southern Nevada 37.4°N 114.2°W, H=18 02 37.3, h=
	ei	16 07	28 km(ISC), m=5.6 ISC, Dc=81.9°, LmH:15 s 2.5 u,
	eScS	25 18	MLH=5.7.
	eL	41	
	Lm	53	

Date	Phase	h m s	Remarks
16	ePKIKP	20 05 15	Loyalty Islands 21.3°S 171.6°E, H=19 45 36, h=
	ei	05 35	15 km(ISC), m=5.3 ISC, Dc=146.1°, LmH:22 s 3.3 u,
	eSKKS	15 36	MLH=6.0.
	e	28 18	
	eSSS	33.3	
	eL	54	
	Lm	21 07.8	
16	eiPKP	21 44 20	West of Tonga 19.9°S 177.6°W, H=21 25 34.3, h= 544 km(ISC), m=4.6 ISC, Dc=148.5°.
16	eP	22 23 04	Jan Mayen Islands 71.4°N 2.8°W, H=22 18 00.6, h= 33 km(ISC), Dc=22.9°.
16	eP	23 16 15	Japan 41.7°N 141.7°E, H=23 04 06.4, h=74 km(ISC), m=4.0 ISC, Dc=77.5°.
17	eiPKP	01 13 25.6	Loyalty Islands 21.6°S 171.1°E, H=00 53 44, h= 52 km(ISC), Dc=146.2°.
17	ePn	05 17 23	Italy 44.5°N 11.9°E, H=05 16 00, Dc=5.8°(BCIS).
	eiPg	17 52.5	
	ei	18 20.5	
	eiSn	18 31.5	
	eiSg	19 10	
17	eiPg	06 00 22	D=1.1°.
	eiSg	00 36	
17	e	12 47 09	
	iSg	47 32.5	
17	ePg	12 48 51	D=1.7°.
	eiSg	49 14	
17	eiP	17 50 12	Kurile Islands 48.5°N 155.6°E, H=17 38 23, h= 13 km(ISC), m=4.6 ISC, Dc=76.3°.
17	eiP	21 10 26.5	Aleutian Islands 56.2°N 175.0°E, H=20 58 35, h=
	eiPcP	10 39	23 km(ISC), m=5.4 ISC, Dc=76.9°.
17	eP	23 20 33	North Atlantic Ridge 50.9°N 30.1°W, H=23 14 42.6, h=33 km(ISC), m=4.5 ISC, Dc=28.1°.
18	eP	00 17 58	Sumatra 1.6°S 100.7°E, H=00 05 09, h=45 km(ISC), m=4.9 ISC, Dc=88.7°.
18	eiPKIKP	02 49 20.5	Samoa 15.8°S 172.8°W, H=02 29 43, h=27 km(ISC), m=
	ei	49 32	4.4 ISC, Dc=145.4°.
18	eiP	10 46 05	Guatemala 14.5°N 91.8°W, H=10 33 15.8, h=73 km(ISC),
	ei	47 32	m=5.6 ISC, Dc=89.2°, TPV=1.0 s, A=28.2 mu, mPV=
	eiPP	49 35	5.4, LmH:24 s 5.4 u, MLH=5.9.
	eSKS	56 32	
	e	57 18	

Date	Phase	h m s	Remarks
	eSS	11 02 46	
	eL	13	
	Lm	20	
18	ePg	11 07 12	D=1.1°.
	eiSg	07 25.5	
18	e	12 41 38	
	eiSg	42 02.5	
18	e	12 44 33	
	eiSg	44 56.5	
18	ePg	12 46 08.4	D=2.2°.
	eiSg	49 32.5	
18	iPg	14 01 01	D=1.3°.
	ei	01 13	
	eiSg	01 16.5	
18	eiP	14 47 56	C. Molucca Sea 0.1°S 125.0°, H=14 34 01, h=59 km
	eiPP	52 16	(ISC), m=6.0 ISC, Dc=103.2°, LmH:20 s 3.8 u, MLH=
	e	15 01 42	6.0.
	e	06.1	
	eL	25	
	Lm	41	
18	eiP	14 51 49.5	Molucca Sea 0.1°S 125.1°E, H=14 39 49, h=11 km (ISC), m=6.0 ISC, Dc=103.1°.
18	eiPKP	15 21 56	Loyalty Isl. 21.7°S 169.9°E, H=15 02 20.3, h=33 km
	ei	22 06	(ISC), m=4.8 ISC, Dc=145.7°.
18	eP	22 12 42	Dodecanese Isl. 36.2°N 26.4°E, H=22 09 01.2, h= 133 km(ISC), m=4.4 ISC, Dc=16.2°.
19	eP	03 21 10.3	Gulf of Alaska 59.5°N 144.6°W, H=03 10 04.1, h= 29 km(ISC), m=4.7 ISC, Dc=69.6°.
19	eiP	04 00 35.5	Kazakhstan 50.5°N 77.9°E, H=03 55 01.4, h=0 km(ISC), m=5.1 ISC, Dc=39.7°, TPV=1 s, A=7.6 mu, mPV=4.3.
19	ePn	04 07 53	Italy 44.9°N 10.9°E, H=04 06 31, h=0 km(ISC), Dc=
	ei	08 04.5	5.8°.
	i	08 43	
	ei	09 03	
19	e	04 40 27	
	ei	41 18	
19	eP	11 35 02	Aleutian Isl. 53.6°N 167.3°W, H=11 23 12, h=24 km (ISC), m=5.1 ISC, Dc=76.8°.
19	iP	12 27 03.0	C. Turkey 37.2°N 41.6°E, H=12 22 10.5, h=26 km(ISC),
	i	27 10.0	m=5.8 ISC, Dc=22.0°, TPV=1.0 s, A=56.5 mu, mPV=
	i	27 42	4.9(sp), QmH:32 s 370 u, RmH:22 s 420 u, MLH=6.8,
	Q	33	RmH:16 s 130 u, RmV:16 s 100 u, PH:14 s 25 u, MPH=

Date	Phase	h m s	Remarks
	Qm	12 34.5	6.7, PV:14 s 18 u, MPV=6.3.
	R	36 50	
	Rm	37 30	
	Rm	39.7	
20	eP	04 50 20	Turkey 38.8°N 41.5°E, H=04 45 25, h=47 km(ISC), Dc=22.1°.
20	eiP	07 56 34.5	Peru-Ecuador 3.1° S, 77.2°W, H=07 43 27.3, h=
	ei	56 56	111 km(ISC), m=5.5 ISC, Dc=93.5°.
20	iP	09 44 03	D. Japan 43.0°N 140.6°E, H=09 32 31.5, h=162 km
	eipP	44 41.5	(ISC), m=5.6 ISC, Dc=76.1°, TPV=1.0 s, A=136.1 mu,
	ei	46 44	mPV=5.6.
	eiS	53 30	
	Lm	10 20	
20	eiP	12 03 59	Turkey 39.4°N 41.0°E, H=11 59 09, h=14 km(ISC),
	eiS	07 58	m=5.3 ISC, Dc=21.4°, TPV=1.5 s, A=226.0 mu, mPV=
	Rm	14.7	5.3, SH:16 s 26 u, MSH=6.2.
20	eiP	12 06 32	Turkey 39.2°N 40.7°E, H=12 01 43.7, h=33 km(ISC),
	ei	09 58	m=5.4 ISC, Dc=21.5°, TPV=2.5 s, A=1400.0 mu, mPV=
	eiS	10 28	5.8, RmH:18 s 76 u, MLH=6.1.
	Rm	14.7	
20	eiPn	12 07 21	Yugoslavia 42.2°N 18.7°E, H=12 05 19.3, h=33 km
	ei	07 50	(ISC), m=5.4 ISC, Dc=8.3°.
	ei	08 10	
	iSn	08 46	
	i	09 11	
20	ei	12 43 36.5	
	ei	44 00.5	
	ei	44 16.5	
	ei	44 52	
20	ePn	13 10 13	Yugoslavia 42.1°N 18.7°E, H=13 08 06, h=6 km(ISC),
	ePg	11 00	m=4.9 ISC, Dc=8.5°.
	e	12 01	
	Lm	13.3	
20	e	13 23 20	Kurile Isl. 44.4°N 149.5°E, H=13 11 23, h=27 km (ISC), m=4.2 ISC, Dc=78.0°.
20	eiP	17 58 52.3	C. Turkey 39.3°N 40.8°E, H=17 54 08.6, h=70 km(ISC), m=4.2 ISC, Dc=21.4°.
20	eP	18 34 29	
20	eiP	19 10 25	C. Yugoslavia 42.1°N 18.8°E, H=19 08 21.8, h=42 km
	ei	11 15	(ISC), m=4.7 ISC, Dc=8.4°, LmH:12 s 1.5 u, MLH=
	ei	12 08.5	3.9.
	Lm	13 12	

Date	Phase	h m s	Remarks
20	ePKIKP ei	23 14 48 14 56	South of Fiji 23.6°S 176.0°W, H=22 55 10, h=118 km (ISC), m=5.4 ISC, Dc=152.4°.
20	e	23 28 14	
20	ePKP	23 33 15	Tonga 23.8°S 175.3°W, H=23 13 19, h=13 km(ISC), Dc=152.8°.
21	eiP	00 20 00	Turkey 39.3°N 41.9°E, H=00 15 06.5, h=54 km(ISC), m=4.6 ISC, Dc=22.1°.
21	eiPn ei ei eiS ei ei Lm	01 33 51.3 34 24 35 28 36 18 36 29 37 14 38.6	Turkey 40.3°N 27.4°E, H=01 30 43.5, h=12 km(ISC), m=4.9 ISC, Dc=13.2°, LmH:16s 12.8 u, MLH=5.0.
21	eP	02 29 58	Turkey 39.1°N 41.5°E, H=02 25 10, h=69 km(ISC), Dc=22.0°.
21	eiPKP	02 33 55.3	Tonga 23.7°S 175.9°W, H=02 14 03, h=51 km(ISC), m=4.8 ISC, Dc=152.5°.
21	iP ei eiPP e	05 13 54 14 06 18 05 21 14	C. Philippine Isl. 8.5°N 126.6°E, H=05 00 24.0, h=39 km(ISC), m=5.8 ISC, Dc=97.4°, TPV=1.5 s, A=106.7 mu, mPV=6.3.
21	ePn ei ei	11 52 43 54 32 54 46	Yugoslavia 42.2°N 18.8°E, H=11 50 40, h=20 km(ISC), m=4.8 ISC, Dc=8.3°, MLH=3.8.
21	e	13 36 20	
21	eP	15 22 44	Turkey 39.8°N 42.0°E, H=15 18 02, h=125 km(ISC), Dc=21.9°.
21	eP	18 38 53	Turkey-USSR 41.7°N 43.7°E, H=18 53 55.2, h=4 km (ISC), Dc=21.8°.
21	eiP	20 38 05	D. Ryukyu Isl. 28.9°N 132.1°E, H=20 25 37.0, h=39 km(ISC), m=5.2 ISC, Dc=84.0°, TPV=1.0 s, A=26.0 mu, mPV=5.4.
22	eiP eipP	14 31 39 33 49	D. Sea of Okhotsk 50.3°N 147.7°E, H=14 21 13.6, h=626 km(ISC), m=5.0 ISC, Dc=72.4°, TPV=1.2 s, A=38.2 mu, mPV=4.8.
22	e ei(Sg)	15 31 19 32 09	
22	eiPKIKP ePKS	18 01 48 05 22	Loyalty Isl. 22.4°S 170.6°E, H=17 42 10.1, h=36 km (ISC), m=5.6 ISC, Dc=146.7°, LmN:22 s 10 u, MLH=

Date	Phase	h m s	Remarks
	ei e eSS eL Lm Lm	18 15 36 17 58 24.5 45 19 07.5 11.5	6.7, LmH:20 s 8.3 u, MLH=6.3.
22	eiP	20 41 01.3	Turkey 39.3°N 41.4°E, H=20 36 13, h=40 km(ISC), Dc=21.8°.
22	eiPKIKP e	20 51 36 52 04	C. Loyalty Isl. 22.5°S 170.6°E, H=20 31 58, h=33 km (ISC), m=5.0 ISC, Dc=146.7°.
22	eiP ei	21 54 39 55 09.5	Jan Mayen Isl. 71.9°N 11.5°W, H=21 49 18.0, h=33 km(ISC), m=4.4 ISC, Dc=24.9°.
23	eiPKIKP ei	00 13 14.5 13 27	C. Loyalty Isl. 22.5°S 170.5°E, H=23 53 36.6, h=44 km(ISC), Dc=146.7°.
23	eiP	01 40 32.5	Turkey 39.3°N 41.0°E, H=01 35 45, h=30 km(ISC), Dc=21.5°.
23	ePKP	02 01 46	Loyalty Isl. 22.4°S 170.4°E, H=01 41 57.7, h=33 km (ISC), Dc=146.4°.
23	ePKIKP	02 44 14	Loyalty Isl. 22.7°S 170.0°E, H=02 24 34, h=0 km (ISC), Dc=146.6°.
23	e	15 54 29	
23	iPg iSg	17 00 52 01 05	D=1°.
23	iP ei	18 34 41 35 21	C. Ryukyu Isl. 23.9°N 123.3°E, H=18 22 17.4, h=39 km(ISC), m=5.4 ISC, Dc=83.3°, TPV=1.2 s, A=69.5 mu, mPV=5.8.
23	e eSg	19 17 27 18 49	France 44.4°N 6.6°E, H=19 14 22, h=0 km(ISC), Dc=8.0°.
23	ei	19 31 14	
23	ePKIKP	22 18 36	Loyalty Isl. 22.4°S 170.0°E, H=21 58 57.9, h=18 km(ISC), Dc=146.4°.
23	eiPKIKP ei	22 54 39.3 54 52.5	C. Tonga 16.3°S 173.3°W, H=22 35 02.1, h=33 km (ISC), m=4.8 ISC, Dc=145.8°.
24	ePKP	02 11 36	Kermadec Isl. 30.4°S 177.6°W, H=01 51 12, h=63 km (ISC), m=4.6 ISC, Dc=158.4°.
24	eiPKIKP	02 39 43	Tonga 19.0°S 177.7°W, H=02 20 49.3, h=442 km(ISC), m=4.2 ISC, Dc=147.6°.

Date	Phase	h m s	Remarks
24	eiP	07 31 08	Chile 20.0°S 69.3°W, H=07 17 15.9, h=87 km(ISC),
	e	34 38	m=5.4 ISC, Dc=101.2°.
24	eiPg	11 19 17.3	D=2.3°.
	iSg	19 46.3	
24	e	12 49 12	
	eSg	49 31	
24	eiPg	13 52 32.8	D=1.5°.
	iSg	52 53.3	
24	eiPg	15 32 30.8	D=1°.
	iSg	32 43.8	
24	eSg	20 51 17	France 45.0°N 5.7°E, H=20 47 04(BCIS), Dc=8.0°.
	ei	51 43	
24	eiPKIKP	21 44 45.5	Tonga 20.0°S 175.3°W, H=21 24 59, h=25 km(ISC), m=4.2 ISC, Dc=149.1°.
25	e	07 42 19	
25	ePg	12 03 40	D=1°.
	eiSg	03 53.5	
25	ePKP	12 05 33	Tonga 18.9°S 173.7°W, H=11 45 45.3, h=33 km(ISC), m=4.6 ISC, Dc=148.3°.
25	eP	19 39 35	Kurile Isl. 45.2°N 149.9°E, H=19 27 32, h=40 km (ISC), m=4.4 ISC, Dc=77.4°.
26	eiPKIKP	01 11 38.4	Kermadec Isl. 27.9°S 177.1°W, H=00 51 54, h=87 km
	eiPKP2	12 06	(ISC), m=5.5 ISC, Dc=156.2°.
	ei	12 24	
	ei	13 48	
26	eiP	03 27 22.3	C.
26	eiP	06 01 01	Portugal 38.1°N 8.4°W, H=05 56 23.2, h=20 km(ISC),
	ei	01 28.5	m=4.6 ISC, Dc=20.3°.
	ei	07 41.8	
26	eiPg	06 59 39	Explosion of 3.2 Tons, Czechoslovakia 50.8°N
	ei	59 52	14.4°E, H=06 59(PRU).
	ei	59 54	
	Lm	07 00 20	
26	eiPKIKP	09 26 28.5	Loyalty Isl. 22.1°S 170.0°E, H=09 06 49, h=14 km
	ei	26 37.4	(ISC), m=5.4 ISC, Dc=146.1°, LmH:25 s 2 u, MLH=
	eL	10 16	5.8.
	Lm	31	
26	eiP	09 32 14	
	ei	32 21	

Date	Phase	h m s	Remarks
26	eiP	10 30 04.5	Alaska 66.7°N 162.7°W, H=10 19 32, h=4 km(ISC), m = 5.0 ISC, Dc=63.6°.
26	e	12 48 08	
	eiSg	48 34	
26	ePKHKP	13 47 49	Loyalty Isl. 22.0°S 169.9°E, H=13 28 14, h=42 km
	e	47 52	(ISC), Dc=146.0°.
	ei	48 08.2	
26	eiPKIKP	13 52 01.2	Loyalty Isl. 22.2°S 170.0°E, H=13 22 26, h=60 km
	ei	52 10.2	(ISC), Dc=146.2°.
26	iPg	15 01 06.2	D=1.2°.
	iSg	01 22.2	
26	eiPKP	22 44 39.2	C. Tonga 23.5°S 175.1°W, H=22 24 48, h=61 km(ISC),
	e	45 39	m=4.7 ISC, Dc=152.5°.
27	eiP	02 54 29	
27	eiPKP2	03 22 37.7	Tonga 23.7°S 175.5°W, H=03 02 33.0, h=60 km(ISC), m=4.7 ISC, Dc=152.5°.
27	eiPKIKP	10 46 29.5	Tonga 17.9°S 178.4°W, H=10 27 50.6, h=561 km(ISC), m=4.5 ISC, Dc=146.4°.
27	iPg	12 58 23	
	iSg	58 47	
27	eiP	13 10 54	Japan 39.3°N 141.3°E, H=12 58 56.1, h=102 km(ISC), m=4.2 ISC, Dc=79.5°.
27	eP	20 01 04	Kurile Isl. 45.2°N 152.3°E, H=19 49 08(SKL), Dc= 78.3°.
28	eiPn	04 20 14.5	C. Yugoslavia 42.2°N 18.8°E, H=04 18 11, h=22 km
	ei	20 48	(ISC), m=4.6 ISC, Dc=8.4°, LmH:7 s 1.7 u.
	ei	21 14.5	
	ei	21 43	
	Lm	23	
28	eiPKIKP	07 49 21	New Zealand 35.9°S 178.5°E, H=07 29 38.6, h=138 km
	iPKP2	50 08.5	(ISC), m=5.5 ISC, Dc=161.8°.
	ei	50 40	
	ei	53 49	
28	iPKIKP	10 21 04.2	D. Solomon Isl. 4.6°S 155.2°E, H=10 03 03.3, h=
	eiPP	23 07	511 km(ISC), m=5.4 ISC, Dc=124.0°.
28	eiP	10 30 53	
	e	34 50	
28	eiP	10 50 39	Hindu Kush reg. 36.4°N 70.8°E, H=10 43 01.3, h=
	eipP	51 18.5	174 km(ISC), m=4.7 ISC, Dc=42.2°.

Date	Phase	h m s	Remarks
	ei	10 51 39	
	eisP	52 21	
	ei	53 03	
28	ePn	12 43 08	Yugoslavia 42.5°N 18.2°E, H=12 41 13, h=72 km (ISC), Dc=7.9°.
	eSn	44 37	
	ei	44 59	
28	eiPKIKP	13 40 38.5	Tonga 18.7°S 175.5°W, H=13 21 13.1, h=174 km(ISC), m=4.5 ISC, Dc=147.7°.
28	eP	15 48 30	Japon 36.6°N 138.3°E, H=15 36 19.1, h=25 km(ISC), m=4.8 ISC, Dc=80.5°.
28	eP	17 05 22	
28	eP	19 09 06	Philippine Isl. 13.7°N 120.8°E, H=18 56 19.2, h=114 km(ISC), m=5.0 ISC, Dc=89.5°.
29	eP	13 40 09	Kurile Isl. 46.4°N 152.7°E, H=13 28 18.6, h=57 km (ISC), m=4.6 ISC, Dc=77.4°.
29	ePg	14 10 39.5	
	eiSg	11 02.5	
30	eiP	06 19 51.5	Lake Baikal 51.8°N 104.6°E, H=06 10 33.3, h=29 km (ISC), m=4.8 ISC, Dc=53.3°, LmN:13 s 1.5 u.
	eL	39	
	Lm	41.5	
30	eiP	12 53 20	Philippine Isl. 13.4°N 120.8°E, H=12 40 28.2, h=86 km(ISC), m=5.3 ISC, Dc=90.0°.
	ei	53 38	
	ei	56 54	
30	ePKIKP	13 57 21	Tonga 17.8°S 172.9°W, H=13 37 39.7, h=33 km(ISC), m=4.6 ISC, Dc=147.4°.
	ei	57 32	
30	e	15 47 45	
	e	48 10	
	e	48 24	
	e	48 35	
30	iP	20 31 51.6	D. Southern Alaska 61.3°N 147.4°W, H=20 20 55.0, h=45 km(ISC), m=5.6 ISC, Dc=68.1°, TPV=1.7 s, A=82.3 mu, mPV=5.7, LmN:21 s 1 u, MLH=5.1°.
	ei	31 59.5	
	ei	34 30	
	eiS	40 54	
	e	43 18	
	eL	57	
	Lm	21 03.5	
30	eiP	20 34 17	Southern Alaska 61.2°N 147.8°W, H=20 23 26, h=111 km(ISC), m=5.3 ISC, Dc=68.2°.
31	iPg	10 15 58.6	Explosion of 7.5 Tons, Czechoslovakia 49.8°N 14.8°E, H=10 15(PRU), Dc=0.2°(24 km).
	iSg	16 01.6	

Date	Phase	h m s	Remarks
31	e	11 36 18	
	eiSg	36 30	
31	ePg	12 49 32	D=1.6°.
	eiSg	49 53.5	
31	eiP	13 27 47.5	Jan Mayen 71.4°N 2.0°W, H=13 22 46, h=33 km(ISC), Dc=22.8°.
31	e	14 45 46	
	eiSg	46 32	
31	e	15 44 21	
	e(Sg)	44 46	
31	e(Pg)	16 01 03	Explosion of 9.15 Tons, Germany 50.3°N 9.19°E, H=16 00 00.7(CLL), Dc=3.7°.
	ei	01 40	
	iSg	01 50.6	
31	eiP	18 20 44	C. Jan Mayen Isl. 77.5°N 3.1°W, H=18 15 39.5, h=33 km(ISC), m=4.9 ISC, Dc=23.1°, LmH:20 s 2.1 u, MLH=4.6.
	ei	21 13	
	eiS	24 58	
	eL	27	
	Lm	29.5	
31	iPg	19 08 13.6	D=1.2°.
	iSg	08 29.1	
31	eP	20 59 09	Turkey 38.9°N 41.5°E, H=20 54 16, h=131 km(ISC), m=4.2 ISC, Dc=21.9°.
31	ePKP	23 56 01	Cordillera 49.7°S 116.3°W, H=23 36 07.2, h=33 km (ISC), m=4.8 ISC, Dc=148.8°.

Date	Phase	h m s	Remarks
1	eiP	01 43 37	C. Jan Mayen Isl. 71.6°N 2.8°W, H=01 38 32.7, h=
	i	43 39	33 km(ISC), m=4.8 ISC, Dc=23.1°, LmH:19 s 1.2 u,
	ei	45 11	MLH=4.4.
	eiS	47 54	
	eL	50	
	Lm	52	
1	eP	03 05 27	Jan Mayen Isl. 71.6°N 3.0°W, H=03 00 21.0, h=
			33 km(ISC), Dc=23.1°.
1	iPg	09 16 40	
	iSg	16 50.5	
	Lm	17 04	
1	eP	12 38 41	Greece 38.0°N 22.8°E, H=12 35 34, h=39 km(ISC),
	e	39 09	m=4.6 ISC, Dc=13.3°.
1	eiP	14 26 10	C. Greece 37.5°N 22.1°E, H=14 22 56.9, h=15 km
	i	26 20.5	(ISC), m=5.3 ISC, Dc=13.7°, LmH:11 s 23 u, MLH=
	eiS	28 40	5.4, RmV:11 s 10 u, SH:10 s 2.8 u, SV:10 s 1.2 u.
	ei	28 58	
	Lg	30 42	
	Rm	32	
1	eiPKP	15 44 46.3	Tonga 20.9°S 175.1°W, H=15 25 05, h=82 km(ISC),
	e	46 04	m=4.9 ISC, Dc=150.0°.
1	iPg	16 45 51	
	iSg	46 13	
	Lm	46 26	
1	iP	19 23 05.6	C. Jan Mayen Isl. 71.5°N 3.1°W, H=19 18 01.7, h=
	i	23 29.2	33 km(ISC), m=4.9 ISC, Dc=23.1°, TPV=1.2 s, A=
	eS	27 22	35.0 mu, mPV=4.8, LmH:19 s 1 u, MLH=4.3°.
	Lm	31.5	
1	ePn	23 18 38	Italy 45.0°N 11.2°E, H=23 17 19, h=0 km(ISC),
	ei	18 51	Dc=5.5°.
	i	19 08.1	
	ei	19 31.3	
	iSn	19 39.2	
	i	19 55.2	
1	eiP	23 30 02	Southern Alaska 61.7°N 149.8°W, H=23 19 08.4, h=
	ei	30 15	66 km(ISC), m=5.0 ISC, Dc=68.0°.
	eipP	30 27	
2	eP	01 06 42	Aleutian Islands 51.1°N 177.9°W, H=00 54 40, h=
	eiPcP	06 53.2	4 km(ISC), m=5.0 ISC, Dc=78.3°.
2	eP	02 10 19	Kurile Isl. 46.9°N 153.0°E, H=01 58 30.3, h=53 km
			(ISC), m=4.4 ISC, Dc=77.0°.
2	eiP	10 49 54	D. Aden 13.5°N 50.9°E, H=10 41 26, h=46 km(ISC),
	ei	50 02	m=4.6 ISC, Dc=47.0°.

Date	Phase	h m s	Remarks
2	iPg	11 00 24.7	D=1.5°.
	iSg	00 44.7	
2	iPg	12 42 14.7	D=1.8°.
	iSg	42 38	
2	eiPg	12 43 26.3	D=1.6°.
	ei	43 28.8	
	eiSg	43 48.8	
2	e	14 27 07	Adriatic Sea 41.7°N 18.9°E, H=14 24 51, h=54 km
	ei	28 49	(ISC), Dc=8.8°.
	eiSg	29 39	
2	iPg	15 56 55.3	D=85 km. Explosion?
	iSg	57 05.3	
	i	57 09.8	
	Lm	57 13	
2	eiP	22 57 44	Southern Alaska 60.3°N 147.0°W, H=22 46 36, h=
			6 km(ISC), m=4.7 ISC, Dc=69.1°.
3	eiP	08 23 32	Kurile Islands 43.5°N 146.5°E, H=08 11 38.0, h=
	eiPcP	23 42	50 km, m=4.3 ISC, Dc=77.9°.
3	eiPg	11 59 59	D=1.4°.
	iSg	12 00 17.5	
3	eiPKP	20 04 29	West of Tonga 21.0°S 178.8°W, H=19 45 47.5, h=
			605 km(ISC), m=4.5 ISC, Dc=149.2°.
4	eiP	01 31 39.5	Rumania 45.8°N 26.6°E, H=01 29 29.2, h=130 km
			(ISC), m=4.3 ISC, Dc=9.2°.
4	iP	04 48 35.9	D. Andaman Islands 12.2°N 93.1°E, H=01 29 29.2,
			h=130 km(ISC), m=4.3 ISC, Dc=9.2°.
4	iP	04 48 35.9	D. Andaman Islands 12.2°N 93.1°E, H=04 37 07, h=
			52 km(ISC), m=5.2 ISC, Dc=73.4°, TPV=1.0 s, A=
			35.5 u, mPV=5.4.
4	eP	22 27 30	Colombia 4.6°N 74.1°W, H=22 14 50, h=9 km(ISC),
	ei	27 37	m=5.0 ISC, Dc=85.7°.
5	iPKP	00 27 32.5	C. West of Tonga 21.7°S 176.4°W, H=00 08 07, h=
	ei	27 40.5	234 km(ISC), m=4.7 ISC, Dc=150.5°.
	eipPKP	28 30	
5	eP	09 00 12	Aleutian Islands 52.0°N 176.6°E, H=08 48 21, h=
	eiPcP	02 23	54 km(ISC), m=4.6 ISC, Dc=77.3°.
	ei	02 42	
5	e	12 42 18	
	eiSg	42 42	

Date	Phase	h m s	Remarks
5	iPg	18 13 48	D=1°.
	eiSg	14 01	
5	ePKIKP	18 17 55	New Hebrides 15.8°S 167.4°E, H=17 58 31.1, h=
	e	18 09	40 km(ISC), m=4.8 ISC, Dc=139.4°.
5	eP	22 37 19	Greece 38.4°N 21.9°E, H=22 34 13.3, h=15 km(ISC), m=4.3 ISC, Dc=12.8°.
6	eiP	12 35 34.8	C. Dodecanese Islands 36.7°N 26.6°E, H=12 31 57.3, h=158 km(ISC), m=4.5 ISC, Dc=15.9°.
6	eiPn	12 41 12.4	Yugoslavia 42.2°N 19.0°E, H=12 39 08.8, h=33 km
	e	42 33	(ISC), m=4.6 ISC, Dc=8.4°.
6	eP	17 55 15	Kurile Islands 47.6°N 155.2°E, H=17 43 21.6, h= 20 km(ISC), m=4.3 ISC, Dc=77.0°.
7	ei	03 59 34	Eastern Kazakhstan 49.9°N 77.2°E, H=03 51 58.1, h=0 km(ISC), m=4.8 ISC, Dc=39.0°.
7	ePg	12 42 20	D=1.7°.
	eiSg	42 42.7	
	ei	43 17	
7	eiPKIKP	16 14 02	Solomon Islands 5.1°S 154.7°E, H=15 55 12.4, h= 85 km(ISC), m=5.2 ISC, Dc=124.2°.
7	eiP	16 32 08.2	D. Japan 37.2°N 138.6°E, H=16 19 59.2, h=29 km (ISC), m=4.6 ISC, Dc=80.1°.
8	eiPg	01 39 09	D=1°.
	eiSg	39 22.5	
8	e	07 32 33	
	eiSg	32 54.5	
8	ei	12 12 56.5	
8	eiP	12 19 21	SouthAtlantic Ridge 22.6°S 10.7°W, H=12 07 49.7,
	ei	19 24	h=33 km(ISC), m=5.2 ISC, Dc=75.6°.
8	ePg	15 07 07.6	D=1.8°.
	iSg	07 31.6	
8	eiPKP	16 56 48	Tonga 19.7°S 175.8°W, H=16 37 26, h=223 km(ISC), m=4.1 ISC, Dc=148.7°.
8	iP	21 29 43.5	C, Halmahera 2.3°N 128.4°E, H=21 15 52.3, h=90 km
	ei	30 04.5	(ISC), m=6.6 ISC, Dc=103.3°, TPV=3.0 s, A=480.0 mu,
	ei	33 07	mPV=6.7, QmH:34 s 33 u, RmH:19 s 21 u, MLH=6.7.
	eiPP	33 58	
	e	36 12	
	eiSKKS	40 33	

Date	Phase	h m s	Remarks
	ei	21 43 37	
	eiS	48 24	
	ei	52 16	
	Q	22 07	
	Qm	12	
	R	17	
	Rm	19.5	
8	iPKP	21 37 04.0	D. South of Fiji 22.0°S 176.1°W, H=21 17 24, h=
	i	37 45.7	109 km(ISC), m=5.4 ISC, Dc=150.9°.
8	iP	22 07 34.3	C. Kurile Islands 45.4°N 150.5°E, H=21 55 41.5,
	ei	08 18.5	h=45 km(ISC), m=5.4 ISC, Dc=77.6°, TPV=1.0 s, A= 45.5 mu, mPV=5.6.
8	eiP	22 43 35	Aleutian Islands 52.8°N 173.4°E, H=22 31 52, h= 63 km(ISC), m=5.0 ISC, Dc=76.1°.
8	eiPKP	23 16 59.5	West of Tonga 18.0°S 176.4°W, H=22 58 23.5, h= 595 km(ISC), m=4.1 ISC, Dc=146.4°.
9	iPg	07 44 11.5	D=1.5°.
	iSg	44 31	
9	eiPn	11 59 43	Corsica 43.9°N 9.9°E, H=11 58 02, h=0 km(ISC),
	e	12 00 33	Dc=6.9°.
	eiSn	00 56	
	ei	01 15	
9	e	12 43 28	
	eiSg	43 53	
9	eiPg	12 44 12	D=1.8°.
	iSg	44 36	
9	eiPg	14 09 38	D=1.6°.
	eiSg	10 00	
9	eiP	18 45 53.5	Vancouver Island 49.2°N 129.4°W, H=18 33 51.4, h=15 km(ISC), m=4.7 ISC, Dc=76.4°.
9	eiP	18 51 59	Venezuela10.8°N 69.5°W, H=18 39 58.1, h=8 km(ISC),
	ei	52 16.5	m=5.3 ISC, Dc=78.0°.
9	eiP	20 50 34.1	Aden 14.7°N 52.4°E, H=20 42 14, h=101 km(ISC),
	ei	50 40.5	m=4.6 ISC, Dc=46.7°.
9	eiP	23 24 02.7	C. Kurile Islands 48.7°N 156.4°E, H=23 12 11, h=3 km(ISC), m=4.6 ISC, Dc=76.4°.
10	eiP	02 38 51.6	C. Sea of Okhotsk 46.4° N 144.3°E, H=02 27 48.0,
	epP	40 12	h=344 km(ISC), m=5.0 ISC, Dc=74.6°.
10	eiP	10 14 40.4	Turkey 39.5°N 40.9°E, H=10 09 57.1, h=64 km(ISC), Dc=21.4°.

Date	Phase	h m s	Remarks
10	eiP	10 58 56.8	Dodecanese Islands 36.5°N 26.9°E, H=10 55 16.7, h=146 km(ISC), m=4.5 ISC, Dc=16.2°.
10	iPKP ipPKP2	17 50 54.8 53 02.7	C. South of Fiji 23.5°S 179.9°W, H=17 31 59.6, h=512 km(ISC), m=4.8 ISC, Dc=151.3°.
12	ePKIKP i ei eiPP eiSKSP ei eL Lm	11 49 16.7 49 32.4 50 27 52 48 12 03 02 05 27 45 56	D.E.N. Loyalty Islands 23.0°S 170.6°E, H=11 29 37, h=17 km(ISC), m=5.9 ISC, Dc=147.2°, LmH:20 s 4.4 u, MLH=6.2.
12	iPg eiSg	12 40 11 40 24	D=1°.
12	ePKIKP	12 59 47.5	Loyalty Islands 23.1°S 170.6°E, H=12 40 05, h=19 km(ISC), m=4.8 ISC, Dc=147.2°.
12	eiPKIKP ei	14 25 01.5 25 26	Loyalty Islands 23.0°S 170.3°E, H=14 05 21, h=32 km(ISC), m=4.8 ISC, Dc=147.0°.
12	eiP ei ei ePPS ei eL Lm	16 53 26 53 49 54 26 17 04 40 04 52 19 25	Northern California 39.4°N 120.2°W, H=16 41 01.5, h=3 km(ISC), m=5.4 ISC, Dc=62.5°, LmH:22 s 6.5 u, MLH=6.0.
13	eiPKIKP ei	00 51 12 51 22	Loyalty Islands 23.1°S 170.5°E, H=00 31 31, h=29 km(ISC), Dc=147.2°.
13	eiPKIKP	01 10 25	D. Loyalty Islands 23.0°S 170.7°E, H=00 50 39, h=5 km(ISC), m=5.0 ISC, Dc=147.3°.
13	ePKIKP	08 04 39	Loyalty Islands 22.6°S 170.7°E, H=07 44 58, h=38 km(ISC), Dc=147.1°.
13	eiPKIKP	09 58 37.4	Loyalty Islands 22.9°S 170.7°E, H=09 38 53, h=10 km(ISC), m=4.8 ISC, Dc=147.3°.
13	eiP	10 00 05	
13	eiPg eiSg	11 12 47.3 13 00.3	D=1°.
13	eiPn eiPg ei i eiSg Lm	13 00 28.3 00 33.8 00 51.5 01 07.3 01 08 01 17	Poland 49.0°N 19.2°E, H=12 59 33, h=0 km(ISC), Dc=3.2°.

Date	Phase	h m s	Remarks
13	iPg iSg	17 36 56 37 11.5	D=1.1°.
13	eiPg ei i	17 40 07 40 17.5 40 21	
13	eiP	20 28 34.4	D. Turkey 39.2°N 40.9°E, H=20 23 51, h=46 km(ISC), Dc=21.5°.
13	eiPKP ei	23 13 50.6 14 13	D. Tonga 24.0°S 175.4°W, H=22 53 58, h=43 km(ISC), m=5.4 ISC, Dc=152.9°.
14	eiPKIKP	00 32 09.0	D. Loyalty Islands 23.0°S 170.8°E, H=00 12 28, h=31 km(ISC), m=4.7 ISC, Dc=147.2°.
14	eiPKIKP	00 40 41	Loyalty Islands 23.1°S 170.6°E, H=00 20 58.7, h=31 km(ISC), Dc=147.3°.
14	eP	00 55 56	Arabian Sea 14.5°N 56.4°E, H=00 47 06, h=38 km (ISC), m=4.8 ISC, Dc=49.1°.
14	eiPg eiSg	03 55 06.9 55 24.5	D=1.4°.
14	e	03 57 46	
14	eiPKIKP iPP eiPKP eiSKS ei ei eiPS eiSS ei eL Lm Lm	23 37 21.0 38 18.0 40 44 43 58 44 14 46 20 47 58 54 28 57 46 00 15 22.5 27	South Sandwich Islands 60.3°S 27.3°W, H=23 18 41.9, h=27 km(ISC), m=5.9 ISC, Dc=115.0°, LmH:20 s 16 u, LmH:18 s 21 u, MLH=6.8.
15	iPn iPb iPg eiSn eiSb iSg	00 11 38.7 11 39.0 11 45.8 12 11.5 12 19.3 12 34.2	Austria 46.3°N 13.3°E, H=00 10 41(BCIS), Dc=3.6°.
15	eiPKP i	04 26 58.5 27 09	Tonga 23.8°S 175.5°W, H=04 07 03, h=54 km(ISC), m=5.2 ISC, Dc=152.7°.
15	eiPg eiSg	11 34 28.5 34 58.5	D=2.4°.
15	eiP	11 54 22	Crete 34.6°N 24.3°E, H=11 50 26, h=33 km(ISC), Dc=10.3°.

Date	Phase	h m s	Remarks
15	ePP	12 11 32	South Sandwich Islands 60.3°S 26.8°W, H=11 51 56.4,
	eiSKS	17 18	h=33 km(ISC), m=5.7 ISC, Dc=115°, LmH:19s 3.9 u,
	eSKKS	18 30	MLH=6.0.
	e	21 28	
	eiSS	27 26	
	eL	46	
	Lm	56.5	
15	eiPKIKP	14 34 01	D. Loyalty Islands 22.8°S 170.7°E, H=14 14 19,
	ei	34 10.5	h=16 km(ISC), m=4.9 ISC, Dc=147.0°.
15	eiP	17 23 08.5	Taiwan 22.9°N 121.4°E, H=17 10 47.7, h=53 km(ISC),
	ei	23 24	m=5.4 ISC, Dc=83.0°, LmH:16 s 3.6 u, MLH=5.9.
	eiPP	26 25	
	e	33 46	
	ePS	34 16	
	eL	53	
	Lm	59	
15	eiP	17 37 07	Taiwan 22.8°N 121.4°E, H=17 24 46.5, h=53 km(ISC),
			m=5.0 ISC, Dc=83.0°.
15	eiP	19 26 48	Crete 35.2°N 26.4°E, H=19 22 49.7, h=55 km(ISC),
			Dc=17.1°.
16	eP	02 14 19	Taiwan 22.8°N 121.4°E, H=02 01 57.4, h=39 km(ISC),
			Dc=83.0°.
16	eiP	03 00 08	C. Unimak Island 54.0°N 163.4°W, H=02 48 21.3, h=
			32 km(ISC), m=5.2 ISC, Dc=76.4°, TPV=1.0s, A=
			15.1 mu, mPV=5.1.
16	eiPKIKP	13 31 36	Loyalty Islands 23.0°S 170.6°E, H=13 11 53, h=
	ei	31 45	21 km(ISC), m=4.9 ISC, Dc=147.2°.
16	eiPKIKP	15 14 10.5	Samoa 16.2°S 171.1°W, H=14 54 33.3, h=31 km(ISC),
			m=4.7 ISC, Dc=146.0°.
16	eiP	17 22 27	Unimak Island 53.9°N 163.1°W, H=17 10 37.5, h=
	eiPcP	22 38	15 km(ISC), m=4.9 ISC, Dc=76.5°.
17	eiPg	08 04 11	D=1.8°.
	ei	04 32	
	iSg	04 35.1	
17	e	09 58 54	
17	eiPg	11 12 10.1	D=2.3°.
	eiSg	12 40	
17	eiPg	12 44 22.6	D=1.6°.
	eiSg	44 45.1	
17	eiPKP2	20 37 46	Kermadec Islands 27.9°S 176.4°W, H=20 17 25.8, h=
			39 km(ISC), m=5.1 ISC, Dc=156.4°.

Date	Phase	h m s	Remarks
17	iPKP	21 24 51.3	D. West of Tonga 20.8°S 176.3°W, H=21 05 30, h=
	i	24 56.8	251 km(ISC), m=4.4 ISC, Dc=149.6°.
	eipPKP	25 48.6	
18	eP	00 47 26	Japan 37.1°N 140.7°E, H=00 35 19.4, h=95 km(ISC),
	ei	47 48	m=4.3 ISC, Dc=81.2°.
18	eiP	05 21 21.3	C. Japan 42.3°N 143.0°E, H=05 22 30.8, h=68 km
	ei	34 50	(ISC), m=4.9 ISC, Dc=77.6°, TPV=1.0 s, A=20.0 mu,
			mPV=5.2.
18	eiPg	11 50 33	D=1.8°.
	i	50 56.5	
18	eiP	12 07 34	Arabian Sea 13.1°N 57.5°E, H=11 58 36, h=98 km
			(ISC), m=4.6 ISC, Dc=50.8°.
18	eiP	14 27 18	China 22.8°N 102.2°E, H=14 15 55.4, h=11 km(ISC),
	ei	28 36	m=5.2 ISC, Dc=71.4°.
18	eiP	19 56 50.5	Taiwan 23.0°N 121.3°E, H=19 44 28.7, h=38 km(ISC),
			Dc=82.8°.
18	iP	20 51 06.5	C. Southern Persia 27.9°N 54.3°E, H=20 43 56.5,
	ei	51 34	h=39 km(ISC), m=5.9 ISC, Dc=37.4°, TPV=1.5 s, A=
	eiPP	52 32	190.0 mu, mPV=5.6, LmH:18 s 2.8 u, MLH=5.2.
	eS	56 44	
	ei	57 11	
	eL	21 04	
	Lm	08	
19	eiPKIKP	03 56 35.5	C. Loyalty Islands 23.0°S 170.7°E, H=03 36 56,
	ei	56 47	h=43 km(ISC), m=4.9 ISC, Dc=147.2°.
19	eiP	04 35 48.0	D. Kurile Islands 47.8°N 153.9°E, H=04 24 07.0,
			h=91 km(ISC), m=4.9 ISC, Dc=76.5°.
19	eP	05 14 48	Burma-China 24.0°N 97.7°E, H=05 03 50.4, h=
			33 km(ISC), m=4.8 ISC, Dc=67.7°.
19	iPKP	07 20 56.3	D. West of Tonga 20.8°S 178.3°W, H=07 02 12.5,
	i	21 03.4	h=577 km(ISC), m=5.0 ISC, Dc=149.2°.
19	eiPg	12 37 16	D=1.8°.
	iSg	37 40	
19	eiPKP	21 35 48	Loyalty Islands 23.0°S 170.6°E, H=21 16 09, h=
			42 km(ISC), m=4.7 ISC, Dc=147.1°.
20	eiPKP	08 37 42.3	Tonga 17.2°S 172.5°W, H=08 37 59.7, h=35 km(ISC),
			m=4.4 ISC, Dc=140.8°.
20	iPg	14 14 30.3	D=1.0°.
	iSg	14 32.2	

Date	Phase	h m s	Remarks
20	eiPg eiSg	16 29 31 29 45	D=1.1°.
20	eiPKP2 ei	17 52 23 52 54	Kermadec Islands 28.2°S 176.4°W, H=17 32 06.1, h=75 km(ISC), m=4.9 ISC, Dc=156.6°.
20	eP	20 44 37	Kurile Islands 44.7°N 150.3°E, H=20 32 40, h= 29 km(ISC), m=4.5 ISC, Dc=78.1°.
20	eiP	23 11 49	Greenland Sea 73.4°N 8.1°E, H=23 06 38.7, h=33 km (ISC), m=4.3 ISC, Dc=23.7°.
20	eiP	23 48 17	Burma-China 24.1°N 97.7°E, H=23 37 22, h=32 km (ISC), m=4.9 ISC, Dc=67.6°.
22	eiP	00 15 56.6	C. Kamchatka 52.6°N 159.5°E, H=00 04 28.9, h= 67 km(ISC), m=4.8 ISC, Dc=73.6°, TPV=1.0 s, A=26.0 mu, mPV=5.1.
22	eP	04 27 37	Japan 37.5°N 138.7°E, H=04 15 27.9, h=24 km(ISC), m=4.8 ISC, Dc=79.6°.
22	ei ei iSg	08 53 49.8 54 10.8 54 15	
22	eiPg eiSg	12 00 57.3 00 18.3	D=1.6°.
22	eiPg eiSg	14 14 22 14 36	D=1.1°.
22	eiPg ei Lm	14 20 23 20 31 20 39	
22	eiPKP ei	21 54 54.5 55 04	Tonga 17.1°S 172.5°W, H=21 35 13.5, h=33 km(ISC), m=4.3 ISC, Dc=146.7°.
22	eP	22 50 30	Eastern China 26.2°N 104.5°E, H=21 54 12, h= 4 km(ISC), m=4.9 ISC, Dc=70.4°.
23	eiP ei eS ePS eL Lm	01 41 45.5 42 46 51 48 52 12 02 11 18.5	C. Kurile Islands 44.7°N 150.4°E, H=01 29 46, h=17 km(ISC), m=5.0 ISC, Dc=78.2°, TPV=2.0 s, A=92.0 mu, mPV=5.6, LmH:14 s 1.3 u, MLH=5.5.
23	eiP	02 18 29	Kamchatka 53.0°N 159.7°E, H=02 06 59, h=53 km (ISC), m=4.7 ISC, Dc=73.3°.
23	eiPg eiSg	07 19 44 19 59.5	D=1.2°.
23	eiP	07 40 36	Crete 34.9°N 23.6°E, H=07 36 45, h=45 km(ISC). Dc=16.5°.

Date	Phase	h m s	Remarks
23	eiPg eiSg	10 25 16 25 30	D=1.1°.
23	ePg eSg	12 47 03 47 16.5	D=1.1°.
23	eP ei	20 45 02 45 08	Crete 34.1°N 26.6°E, H=20 40 54, h=54 km(ISC), Dc=18.2°.
24	eP ei eiPP	10 08 01 08 20 09 28	Southern Persia 27.4°N 54.6°E, H=10 00 47.5, h=46 km(ISC), m=5.3 ISC, Dc=37.9°.
24	ePg eiSg	13 38 17 38 39.5	D=1.6°.
24	eiPg eiSg	13 39 47 40 16.5	D=2.3°.
24	eiPKIKP eisPKIKP	17 08 00.5 08 42	Loyalty Islands 22.3°S 171.7°E, H=16 48 31.4, h=125 km(ISC), m=5.2 ISC, Dc=147.1°.
24	eP e	20 24 29 27 20	Greece 38.1°N 22.1°E, H=20 21 17.5, h=71 km(ISC), m=4.4 ISC, Dc=13.1°.
25	iP i e ei	06 15 27.5 15 49 18 35 26 31	D. Mexico 18.4°N 100.8°W, H=06 02 28.8, h=79 km (ISC), m=5.7 ISC, Dc=91.3°, TPV=1.0 s, A=68.3 mu, mPV=5.9.
25	eiP ei	06 22 38 22 50	C. Japan 39.9°N 143.1°E, H=06 10 32.8, h=40 km (ISC), m=4.8 ISC, Dc=79.8°.
25	eiPKIKP	06 52 37.5	Loyalty Islands 21.4°S 170.4°E, H=06 33 18.4, h=183 km(ISC), Dc=145.6°.
25	eiPKP ei	08 56 00.5 56 10.2	Loyalty Islands 22.7°S 170.3°E, H=08 36 24, h= 69 km(ISC), m=4.8 ISC, Dc=146.8°.
25	eiP	20 31 10.4	C. Kamchatka 53.1°N 159.7°E, H=20 19 44.9, h= 65 km(ISC), m=5.0 ISC, Dc=73.2°, TPV=1.0 s, A= 32.0 mu, mPV=5.2.
26	eiP	00 01 15.7	Japan 35.6°N 140.4°E, H=23 49 01.7, h=79 km(ISC), m=4.6 ISC, Dc=82.3°.
26	eiP	04 35 15	Taiwan 22.3°N 117.9°E, H=04 22 57, h=51 km(ISC), m=4.9 ISC, Dc=81.4°.
26	iP i eS eL Lm	05 21 16.0 21 22.7 29 41 47 51	C. India-China 27.5°N 92.6°E, H=05 10 56.2, h= 20 km(ISC), m=5.4 ISC, Dc=62.0°, TPV=1.4 s, A= 93.7 mu, mPV=5.8, LmE:13 s 1 u,

Date	Phase	h m s	Remarks
26	ePKIKP	06 29 29	Tonga 16.0°S 175.5°W, H=06 10 04.2, h=108 km (ISC), m=4.7 ISC, Dc=145.1°.
27	eP	15 12 27	Svalbard 76.3°N 9.9°E, H=15 06 49.3, h=33 km (ISC), m=4.4 ISC, Dc=26.5°.
27	eiPg eiSg	21 02 21 02 34.5	D=1°.
28	eiPKIKP	12 08 29	Fiji 15.5°N 178.6°W, H=11 49 42.6, h=409 km(ISC), m=4.3 ISC, Dc=143.9°.
28	e ei	12 45 09 45 50.5	
28	eiP ei eiS ei eSS e eL Lm	14 11 12.5 12 11.5 20 09 21 05 24 40 27.9 35 44.5	China 27.5°N 100.1°E, H=14 00 21, h=12 km(ISC), m=5.7 ISC, Dc=66.7°, LmE: 20 s 5.2 u, MLH=5.8.
29	iPKP eipPKP	03 03 38.5 04 40.5	D. West of Tonga 20.1°S 176.1°W, H=02 44 18.4, h=243 km(ISC), m=4.9 ISC, Dc=148.9°.
30	eiP e	06 06 59.5 08 20	C. Turkmeniya 39.0°N 64.5°E, H=05 59 52.8, h= 33 km(ISC), m=5.1 ISC, Dc=36.7°.
30	iPg eiSg	08 02 31 02 55	D=1.8°.
30	iPg iSg	09 00 30 00 45.5	D=1.1°.
30	eP ei	09 42 44 43 17.5	Northern Chile 18.3°S 69.5°W, H=09 29 11.7, h= 124 km(ISC), m=5.1 ISC, Dc=100.0°.
30	eiPg ei eiSg	10 22 51 23 03.5 23 07.5	Explosion of 9.6 Töns, Czechoslovakia 49.2°N 13.2°E, H=10 22(PRU), Dc=1.2°.
30	eiPg ei ei	11 01 46.5 01 54 01 59	
30	iPg iSg	15 03 23.5 03 37.5	D=1.1°.
30	ePKIKP ei	15 22 00 22 12	Tonga 17.6°S 171.8°W, H=15 02 18.7, h=33 km(ISC), m=4.7 ISC, Dc=147.3°.

Date	Phase	h m s	Remarks
30	eiPKP	15 48 25.5	West of Tonga 18.0°S 178.6°W, H=15 29 53.5, h= 642 km(ISC), m=4.0 ISC, Dc=146.3°.

Date	Phase	h m s	Remarks
1	eiP e	07 46 31 47 03	Afghanistan 34.7°N 71.0°E, H=07 38 30.8, h=39 km(ISC), m=4.8 ISC, Dc=43.4°.
1	iPg iSg	10 45 39 45 56.5	D=1.4°.
1	eiPg i iSg Lm Lm	11 34 35.5 34 38 34 44.5 34 56 35 14	Explosion of 18.3 Tons, Czechoslovakia 50.6°N 14.1°E, H=11 34(PRU), Dc=1.5°.
2	eP e	04 42 26 42 48	Burma-India 24.4°N 94.8°E, H=04 31 48.7, h=75 km (ISC), m=4.9 ISC, Dc=65.6°.
2	eP e	07 35 33 35 50	Aleutian Islands 51.7°N 174.6°W, H=07 23 33, h=10 km(ISC), m=5.1 ISC, Dc=78.4°.
2	iPn ei eiSn Lm	11 23 53.2 24 16.5 25 42 26 20	D.E.S. Rumania 45.8°N 26.5°E, H=11 21 45.2, h=141 km(ISC), m=5.1 ISC, Dc=9.1°, TPV=1.0 s, A=174.2°, mPV=5.6, LmH:7 s 1.1 u, MLH=4.6.
2	ePg iSg	11 34 44 35 07	D=1.7°.
2	eP	12 19 57	Aleutian Islands 51.7°N 174.6°W, H=12 08 00.7, h=48 km(ISC), m=4.5 ISC, Dc=78.4°.
2	ePKP	20 01 52	Macquarie Island 53.7°S 140.8°E, H=19 42 05, h=3 km(ISC), m=4.9 ISC, Dc=147.2°.
3	eiPg ei eiSg	20 28 17 28 51 28 52.5	Austria 47.4°N 13.5°E, H=20 27 30 (BCIS), Dc=2.7°.
3	eiPg eiSg	21 13 21.5 13 58	D=2.7°.
3	e eiSg	21 18 26 19 01	
3	eiPg eiSg	21 25 59.5 26 35.5	D=2.7°.
3	ePg eiSg i	22 41 17 41 53 41 55	D=2.7°.
4	eiPg iSg	13 47 58 48 16	D=1.4°.
4	ePKP	16 19 14	Macquarie Island 53.7°S 140.7°E, H=15 59 21, h=16 km(ISC), Dc=147.2°.

Date	Phase	h m s	Remarks
4	ei	17 08 16.5	
4	eiP	21 19 39	
5	eiP ei eiPP e eL Lm	08 43 51.0 44 12 45 49 53 14 09 07 11.7	Congo 0.0°N 30.0°E, H=08 34 40.1, h=28 km(ISC), m=5.3 ISC, Dc=51.5°, TPV=1.5 s, A=40.5 mu, mPV=5.1, LmN:18 s 1.5 u. MLH=5.0.
5	eiPKP	10 25 34	Tonga 20.1°S 175.8°W, H=10 06 13.6, h=244 km(ISC), m=4.5 ISC, Dc=149.1°.
5	ei iSg i	12 50 46.5 51 09.5 51 30	
5	eP	19 55 23	
6	ePg ei	07 42 26 42 38	
6	eP	07 53 43	Turkey 39.1°N 41.8°E, H=07 48 50.9, h=46 km(ISC), Dc=22.1°.
6	eiPg eiSg	11 08 00.5 08 16.5	D=1.3°.
6	ePg eiSg	12 18 46 19 09	D=1.7°.
6	eiP	14 00 11	Kamchatka 51.3°N 159.4°E, H=13 48 33, h=27 km (ISC), m=4.6 ISC, Dc=74.7°.
7	ePg eiSg	09 16 30 16 43	D=1°.
7	eiPg eiSg	09 29 11.5 29 23	Explosion?
7	ePn eiPg ei ei eiSg	14 05 53 06 02.5 06 08 06 43 06 47.8	Explosion of 12.4 Tons, Eschenlohe 47°37.9'N 11°08.9'E, H=14 05 01.1(München), Dc=3.4°.
7	e eiSg	15 06 35 06 37	Explosion of 8.4 Tons, Germany 50.5°N 10.0°E, H=15 05 01(CLL), Dc=3.2°.
7	eiPKIKP ei eiPP eiPPP	16 14 29.8 15 24 17 58 21 08	C.S.W. Loyalty Islands 21.6°S 170.6°E, H=15 55 11.3 h=165 km(ISC), m=6.0 ISC, Dc=145.9°, LmH:31 s 10.7 u.

Date	Phase	h m s	Remarks
	eiSKKS	16 24 32	
	eiSKSP	27 55	
	eiPPS	30 42	
	ei	31 53	
	e	37 32	
	e	41 40	
	eL	57	
	Lm	17 04.5	
7	iP	21 06 51.6	D. Southern Alaska 61.7°N 150.1°W, H=20 55 56.0, h=54 km(ISC), m=5.3 ISC, Dc=68.0°, TPV=1.0 s, A=96.2 mu, mPV=6.0.
	ei	07 36.5	
	e	09 16	
8	eiPKIKP	00 31 53	West of Tonga 16.5°S 177.5°W, H=00 12 16.4, h=18 km(ISC), m=5.6 ISC, Dc=145.3°, LmN:22 s 2.4 u, MLH=6.0.
	ei	32 28	
	e	55 36	
	eL	01 22	
	Lm	29.5	
8	eiPKP	02 41 17	D. Tonga 19.4°S 175.2°W, H=02 21 44.3, h=128 km (ISC), m=5.0 ISC, Dc=148.5°.
8	eiPKIKP	02 53 49	West of Tonga 16.5°S 177.3°W, H=02 34 11, h=15 km(ISC), m=4.8 ISC, Dc=145.2°, LmH:21 s 2 u, MLH=5.9.
	ei	54 22.5	
	eL	03 43	
	Lm	57.5	
8	eiP	03 18 09	Kodiak Islands 57.6°N 151.4°W, H=03 06 50, h=54 km(ISC), m=4.8 ISC, Dc=72.0°.
8	eiP	04 10 05	D.
8	eiP	12 14 25.6	Japan 35.5°N 140.5°E, H=12 02 06.1, h=40 km(ISC), m=4.9 ISC, Dc=82.4°.
	ei	14 54	
8	eiPg	12 58 45.3	D=1.2°.
	eiSg	59 01	
8	e	13 20 30	
8	eiPKIKP	15 02 40.5	C. Fiji Region 15.7°S 177.8°W, H=14 43 54.0, h=423 km(ISC), m=4.7 ISC, Dc=144.4°.
8	eiP	17 55 55	C. Aleutian Island 51.7°N 173.9°W, H=17 43 55, h=27 km(ISC), m=5.2 ISC, Dc=78.5°, TPV=1.1 s, A=26.0 mu, mPV=5.3.
	ei	56 08	
8	eiP	19 51 06.3	Venezuela 10.7°N 62.6°W, H=19 39 41.0, h=95 km (ISC), m=5.0 ISC, Dc=73.6°.
9	eiPKIKP	02 25 07.5	D. West of Tonga 17.8°S 178.2°W, H=02 06 35.7, h=643 km(ISC), m=4.7 ISC, Dc=146.3°.
9	eiP	06 56 13.2	Sudan 12.6°N 30.8°E, H=06 48 39, h=0 km(ISC), m=5.1 ISC, Dc=39.6°.
	e	57 45	

Date	Phase	h m s	Remarks
9	eP	08 23 11	Gulf of California 31.2°N 114.4°W, H=08 10 28, h=24 km(ISC), m=4.8 ISC, Dc=87.3°.
	ei	23 21.8	
9	ePP	10 37 34	Sudan 12.7°N 30.9°E, H=10 28 28, h=50 km(ISC), m=4.1 ISC, Dc=39.4°.
	ei	38 38.4	
10	eP	21 28 47	Southern Alaska 57.4°N 136.2°W, H=21 17 34.8, h=33 km(ISC), m=4.8 ISC, Dc=70.3°.
11	ePKP	00 18 04	Samoa 15.8°S 172.7°W, H=23 58 25.2, h=40 km(ISC), m=4.6 ISC, Dc=145.4°.
11	eP	02 57 57	Albania 41.4°N 19.7°E, H=02 55 40, h=49 km(ISC), Dc=9.2°.
	ei	58 23.5	
	ei	59 56.5	
11	ei	03 30 46	Austria 47.5°N 13.6°E, H=03 29 59.7, h=5 km(ISC), Dc=2.6°.
	eiPg	30 51	
	ei	31 06	
	iSg	31 27	
11	ePKIKP	06 44 35.5	South Sandwich Islands 60.4°S 26.4°W, H=06 25 56.1, h=35 km(ISC), m=5.8 ISC, Dc=114.9°.
	eiPP	45 30	
11	eP	10 17 22	China 28.0°N 103.7°E, H=10 06 22, h=41 km(ISC), m=4.9 ISC, Dc=68.6°.
	ei	17 25	
11	e	12 46 03	
	eiPg	46 07.2	
	eiSg	46 22.8	
11	ePKP2	21 01 16	South Kermadec Islands 32.8°S 178.4°W, H=20 40 34, h=1 km(ISC), m=5.1 ISC, Dc=160.2°.
12	ei	00 24 49	South of Timor 11.9°S 121.8°E, H=00 06 38.9, h=37 km(ISC), Dc=110.1°.
	eiPKP	25 11	
	eiPP	25 50.7	
12	e	04 42 29	Kermadec Islands 31.4°S 177.8°W, H=04 22 17.2, h=39 km(ISC), m=5.1 (ISC), Dc=159.2°.
	eiPKP2	42 50	
12	eiPg	05 57 38.5	
	eiSg	57 45	
12	eiPg	06 04 34.6	D=1.5°.
	iSg	04 55.2	
12	ePg	12 03 04	
	eiSg	03 19.2	
12	ePg	12 44 13	D=1.7°.
	eiSg	44 37.2	
12	e	12 45 58.5	
	eiSg	46 22	

Date	Phase	h m s	Remarks
12	e(Pg) eiSg	13 21 07 21 31.2	
12	eiPg eiSg	14 18 45.4 19 08.5	D=1.7°.
12	e eiSg	15 05 02 05 25.2	D=1.7°.
12	eP ei	17 10 23 10 30.2	Kurile Islands 44.5°N 148.6°E, H=16 58 24(SKL), Dc=77.7°.
13	eiP	01 27 55.5	Dodecanese Islands 36.1°N 27.8°E, H=01 23 54, h=7 km(ISC), Dc=16.9°.
13	eP	02 26 55	Gulf of Alaska 59.5°N 145.3°W, H=02 15 46.4, h=20 km(ISC), m=5.0 ISC, Dc=69.7°.
13	eiPg eiSg	09 00 26.3 00 42.5	D=1.3°.
13	ePg eiSg	09 56 15 56 30	D=1.2°.
13	eiPg iSg	13 00 15 00 31.8	D=1.3°.
13	ePg eiSg	13 12 21 12 48	D=2°.
13	eiP	15 58 26.3	Peru-Brazil 8.7°S 74.2°W, H=15 45 15.7, h=154 km (ISC), m=5.1 ISC, Dc=95.8°.
13	eP eiPP	18 56 30 59 25	Aleutian Islands 51.6°N 176.3°E, H=18 44 30, h=33 km(ISC), m=4.8 ISC, Dc=77.6°, LmH:16 s 1.7 u.
	ei eiPS eL Lm	19 06 25 06 59 30 34.7	
13	ePg eiSg	18 57 12 57 25.5	D=1°.
14	eP ei ei ei eiS eiSS eL Lm	01 13 59 14 02.8 15 06.5 17 06.8 21 29 25 15 31 34.8	China 36.5°N 87.4°E, H=01 04 42.9, h=14 km(ISC), m=5.2 ISC, Dc=52.8°. LmH:20 s 6.7 u, MLH=5.7.
14	eP	01 20 19	China 39.4°N 80.2°E, H=01 11 51.9, h=33 km(ISC), m=4.6 ISC, Dc=46.4°.

Date	Phase	h m s	Remarks
14	eP	02 00 42.0	Mona Passage 19.3°N 67.8°W, H=01 49 28.0, h=38 km (ISC), m=5.1 ISC, Dc=70.7°.
14	ePKIKP ei	02 52 08 52 16.2	Tonga 15.1°S 173.4°W, H=02 32 32.1, h=33 km(ISC), m=4.8 ISC, Dc=144.6°.
14	ePg eiSg Lm	10 01 39 01 56 02 10	D=1.4°.
14	ePg eiSg ei	12 55 36 55 56 56 30	D=1.5°.
14	iPg iSg Lm	14 35 36.2 35 56.7 36 12	D=1.5°.
15	iPKIKP	08 49 29.2	C. West of Tonga 18.0°S 178.3°W, H=08 30 52.3, h=587 km(ISC), m=4.7 ISC, Dc=146.5°.
15	iPg eiSg	12 04 03.7 04 22.2	D=1.4°.
15	eiP ei	18 12 01.8 12 13.2	C. Japan 41.8°N 143.0°E, H=18 00 06.4, h=52 km (ISC), m=5.1 ISC, Dc=78.0°.
15	eiPKP	20 54 48	Tonga 23.3°S 175.1°W, H=20 34 53.0, h=33 km(ISC), m=4.6 ISC, Dc=152.3°.
16	eP	09 26 29	Japan 29.6°N 142.6°E, H=09 13 25, h=5 km(ISC), m=5.5 ISC, Dc=88.2°.
16	eiPn eiSn ei	09 50 18.7 51 50 52 01.7	Italy 42.1°N 13.7°E, H=09 48 20, h=0 km(ISC), m=4.3 ISC, Dc=8.0°.
17	eiPKP epPKP	07 49 14.5 51 14	South of Fiji 23.5°S 179.9°E, H=07 30 08.9, h=517 km(ISC), m=4.7 ISC, Dc=151.2°.
17	ePKP eiPP ei eL Lm	10 35 07 37 35 39 21 11 19 38	Santa Cruz Island 11.0°S 166.8°E, H=10 15 39.1, h=36 km(ISC), m=5.3 ISC, Dc=134.9°, LmH:18 s 1.9 u, MLH=5.8.
17	eiPKP	15 00 34	C. Tonga 21.2°S 175.3°W, H=14 40 58, h=136 km (ISC), m=4.5 ISC, Dc=150.2°.
17	iPKP eipPKP	18 38 49.5 41 15	D. South of Fiji 22.3°S 179.2°E, H=18 20 07.0, h=620 km(ISC), m=5.2 ISC, Dc=149.9°.
17	eiP ei	21 55 40.2 59 21	C.E. Peru 10.7°S 78.6°W, H=21 41 56.6, h=38 km (ISC), m=6.3 ISC, Dc=100.2°, LmH:26 s 125 u,

Date	Phase	h m s	Remarks
	ei	22 00 27	LmN:18 s 320 u, PV:18 s 9.3 u, PPH:18 s 8.1 u,
	ei	04 25	MPPH=7.2.
	eiSKS	06 13	
	Lm	35 ca	
	Lm	40 ca	
18	iPKP	04 22 01.2	D. South of Fiji 23.2°S 179.3°E, H=04 03 10.7,
	ei	22 11.8	h=545 km(ISC), m=4.7 ISC, Dc=150.7°.
18	eiPKIKP	11 17 19.5	West of Tonga 17.8°S 178.5°W, H=10 58 41.5, h= 569 km(ISC), m=4.4 ISC, Dc=146.3°.
18	eiPg	12 12 15.5	
	ei	12 30	
18	eiPg	14 03 38.5	D=1.6°.
	eiSg	04 00.5	
18	iPg	15 28 46.5	D=1.1°.
	i	28 58	
	iSg	29 01	
18	iPg	15 48 52	D=1.7°.
	iSg	49 15	
18	eiP	18 56 27	Colombia 3.6°N 74.5°W, H=18 43 37.6, h=42 km (ISC), m=5.0 ISC, Dc=86.7°.
18	eiPKIKP	22 47 00	Samoa 14.9°S 174.2°W, H=22 27 29.2, h=60 km(ISC), m=5.4 ISC, Dc=144.3°.
19	iP	04 05 35	C. Eastern Kazakhstan 49.°N 78.0°E, H=03 57 57.8,
	ei	06 05	h=0 km(ISC), m=5.6 ISC, Dc=39.8°, TPV=1.0 s, A=
	eiPP	07 05	45.5 mu, mPV=5.0.
19	iP	08 11 19.3	C. North of Ascension Island 1.5°S 15.4°W, H=
	i	11 29	08 01 35.1, h=42 km(ISC), m=6.0 ISC, Dc=57.4°,
	i	11 37	TPV=1.5 s, A=183.0 mu, mPV=5.9, RmH:15 s 110 u,
	ei	13 19	MLH=7.1, PH:4 s 1.5 u, PV:4 s 1.6 u, MPH=6.9,
	eiPPP	14 47	SH:20 s 46 u, MSH=7.2, SV:20 s 32 u.
	ei(S)	19 19	
	iPPS	19 31	
	ei	21 37	
	eiSS	23 13	
	Q	29	
	R	34	
	Rm	35.5	
19	ePg	09 01 18	D=1.6°.
	eiSg	01 29.5	
19	ePKIKP	11 41 12	Santa Cruz Islands 12.5°S 167.1°E, H=11 22 16.1, h=231 km(ISC), m=5.0 ISC, Dc=136.4°.
19	eiPg	12 47 17.3	D=1.6°.
	eiSg	47 40.8	

Date	Phase	h m s	Remarks
19	ePg	14 13 47	D=1.1°.
	eiSg	14 01	
19	eiPg	16 02 17.3	D=1.2°.
	eiSg	02 32.8	
19	eiP	19 37 17	Kamchatka 51.2°N 159.2°E, H=19 25 37, h=19 km (ISC), m=4.6 ISC, Dc=74.8°.
19	eiP	19 48 04.5	Kamchatka 51.2°N 159.1°E, H=19 36 24.8, h=33 km
	ei	48 14.8	(ISC), m=4.7 ISC, Dc=74.8°, TPV=1.0 s, A=23.0mu,
	Lm	20 26	mPV=5.2, LmN:15 s 1.4 u, MLH=5.4.
19	eP	20 47 18.3	Kamchatka 51.0°N 159.2°E, H=20 35 36, h=10 km (ISC), m=4.9 ISC, Dc=74.9°.
20	eiP	01 02 29	Kashmir-Tibet 33.6°N 78.7°E, H=00 58 38.7, h=
	eiPP	04 24	28 km(ISC), m=4.7 ISC, Dc=49.1°, LmN:15 s 1.6 u,
	Lm	22	MLH=5.1.
20	ePn	05 00 17	Yugoslavia 43.2°N 17.7°E, H=04 58 31, h=33 km
	ei	00 22.5	(ISC), Dc=7.1°.
	eiPg	00 31	
	ei	00 50	
	ei	01 02	
	ei	01 48.3	
20	iPg	09 04 05	D=1°.
	iSg	04 17.5	
	Lm	04 30	
20	ePn	09 40 05	Northern Italy 44.1°N 12.3°E, H=09 38 35.4, h=
	ei	40 29	48 km(ISC), m=4.3 ISC, Dc=6.1°.
	eiSn	41 13	
	ei	41 28	
20	ePg	10 46 38	D=1°.
	eiSg	46 51	
20	ePKIKP	13 55 02	New Hebrides 15.4°S 167.6°E, H=13 35 50.5, h= 142 km(ISC), m=5.0 ISC, Dc=139.2°.
21	eiPg	09 44 01.5	D=2°.
	iSg	44 28	
21	e	12 45 43	
	i	45 54.3	
	eiSg	45 49.3	
21	iPg	12 49 18.3	D=2°.
	iSg	49 44.3	
21	iPg	13 25 09.7	D=1.7°.
	iSg	25 32.7	

Date	Phase	h m s	Remarks
21	eiPg	13 36 56	D=1.1°.
	eiSg	37 11	
	Lm	37 15	
21	e	14 59 42	
	eiSg	59 51.8	
21	e	16 20 02	Greece 39.5°N 22.1°E, H=16 17 04.0, h=57 km(ISC), m=4.6 ISC, Dc=11.7°.
	e	23 37	
22	eiP	03 14 07	Burma-India 23.0°N 94.3°E, H=03 03 24.4, h=72 km (ISC), m=5.1 ISC, Dc=66.2°.
	ei	14 26.3	
22	eiPg	09 00 44	D=2°.
	eiSg	01 10	
22	ePg	11 08 12	D=1.3°.
	eiSg	08 17	
22	eiP	12 58 36	D. Kamchatka 55.2°N 162.1°E, H=12 47 18.3, h= 60 km(ISC), m=5.3 ISC, Dc=71.8°, TPV=1 s, A= 41 mu, mPV=5.5.
	ei	58 49	
22	(e)	13 41 12	
	e	42 19	
23	eL	07 51	Kamchatka 51.1°N 159.1°E, H=07 09 21.0, h=36 km (ISC), m=5.2 ISC, Dc=74.8°.
	Lm	59	
23	eiP	12 26 56.5	C. Kamchatka 51.3°N 159.2°E, H=12 15 18, h= 25 km(ISC), m=4.8 ISC, Dc=74.7°.
	e	27 49	
	eL	58	
	Lm	13 05	
24	iPg	10 52 18.5	D=1.2°.
	iSg	52 34	
24	e	13 06 49	
	eiSg	07 15.5	
24	eP	14 05 15	Komandorsky Islands 54.8°N 166.1°E, H=13 53 46.1, h=39 km(ISC), m=4.8 ISC, Dc=72.9°.
24	eiP	14 38 03	Persia-USSR 37.3°N 59.6°E, H=14 31 16, h=23 km (ISC), m=5.0 ISC, Dc=34.5°.
24	eiP	18 58 23.4	Ryukyu Islands 24.8°N 127.6°E, H=18 45 49.8, h= 40 km(ISC), m=4.9 ISC, Dc=84.9°.
25	eiPKP	08 06 07.5	Samoa 16.0°S 172.6°W, H=07 46 30.2, h=34 km(ISC), m=4.4 ISC, Dc=145.6°.
25	eiPg	09 01 56.5	D=1.9°.
	eiSg	02 21.5	

Date	Phase	h m s	Remarks
25	eiPKP	08 06 07.5	Samoa 16.0°S 172.6°W, H=07 46 30.2, h=34 km(ISC), m=4.4 ISC, Dc=145.6°.
25	eiPg	09 01 56.5	D=1.9°.
	ei	01 58.5	
	eiSg	02 21.5	
25	eP	10 15 18	West Pakistan 29.9°N 68.8°E, H=10 06 59, h=7 km (ISC), m=5.2 ISC, Dc=45.1°, LmN:20 s 1.5 u, MLH= 5.0.
	ei	15 33	
	eL	35	
	Lm	36	
25	ePKIKP	12 58 30	Fiji Region 15.9°S 176.8°W, H=12 38 53.1, h= 33 km(ISC), m=4.2 ISC, Dc=144.7°.
25	eiPg	13 05 32	D=1.9°.
	eiSg	05 56.5	
25	eiPg	13 15 32	D=1.1°.
	eiSg	15 47	
25	ei	16 02 17	
25	eiP	18 16 22.7	C. Japan 36.7°N 138.3°E, H=18 04 11.3, h=29 km (ISC), m=5.1 ISC, Dc=80.5°, TPV=1.0 s, A=33.5mu, mPV=5.2, LmN:15 s 1.4 u, MLH=5.5.
	eL	49	
	Lm	51	
26	e	10 00 13	
	eiSg	00 29	
26	eiPg	13 02 18	D=1.8°.
	eiSg	02 42.5	
26	eiPg	13 20 37.5	D=1.1°.
	eiSg	20 53	
26	iPg	13 38 32	Explosion of 12 Tons 50°03.3′N 16°20.8′E(PRU), Dc=130 km.
	iSg	38 47	
26	ePg	14 10 04	D=1.8°.
	eiSg	10 26	
26	ePKP	18 48 18	New Hebrides 18.3°S 167.5°E, H=18 28 54.4, h= 37 km(ISC), m=5.4 ISC, Dc=141.7°.
26	eP	19 35 30	Crete 35.1°N 26.9°E, H=19 31 28.3, h=44 km(ISC), Dc=17.4°.
27	iP	06 04 02.7	C.S.W. Nóvaya Zemlya 73.4°N 54.6°E, H=05 57 57.9, h=0 km(ISC), m=6.4 ISC, Dc=29.1°, TPV=1.2 s, A= 879.3 mu, mPV=6.5(sp), LmH:8 s 10.3 u, MLH=5.9, LmV:8 s 4 u, PH:3.5 s 1.7 u, MPH=6.7, PV:3.5 s 1.7 u, MPH=6.7, PV:3.5 s 1.4 u, MPV=6.3.
	i	04 30	
	i	04 40.5	
	i	07 10	
	eiS	08 55	
	ei	09 35	
	Lg	13 34	
	LR	15 34	
	Rm	19.2	

Date	Phase	h m s	Remarks
27	eiP	06 36 10.5	
	ei	37 08	
27	e	07 47 47	
	eiSg	47 59.5	
27	e	13 28 00	
27	eiPg	13 28 06.5	Explosion of 12.1 Tons, Czechoslovakia 49.7°N 17.8°E, H=13 27(PRU), Dc=2.1°.
	eiSg	28 33	
27	eiPg	14 01 41	D=2.2°.
	eiSg	02 09	
27	iP	14 34 31	D. North Pacific Ocean 22.1°N 145.9°E, H=14 21 06 h=44 km(ISC), m=6.0 ISC, Dc=96.3°, TPV=2.0 s, A=175.5 mu, mPV=6.2, LmN:18 s 4.6 u, LmH: 18 s 6 u, MLH=6.1.
	ei	37 37.5	
	eiPP	38 15	
	ei	42 28.5	
	eiS	45 46	
	eiPS	47 18	
	eiSS	52 24.5	
	eL	15 08	
	Lm	14	
	Lm	24	
27	iP	23 58 40.0	C. Japan 41.6°N 142.0°E, H=23 46 47.8, h=69 km (ISC), m=5.3 ISC, Dc=77.8°, TPV=1.0 s, A=29.0 mu, mPV=5.4.
	ei	59 17.6	
28	iPg	09 45 15.0	C. Explosion of 8 Tons, Czechoslovakia 50.0°N 14.4°E, H=09 45(PRU), Dc=0.1°.
	iSg	45 16.5	
	Lm	45 17.5	
28	ePg	10 22 01	D=1.6°.
	iSg	22 22.5	
28	ei	12 53 08	
	ei	53 23	
	eiSg	53 26.5	
28	eiP	13 32 43	C. Japan 35.8°N 140.2°E, H=13 20 29.2, h=71 km (ISC), m=4.9 ISC, Dc=82.0°, TPV=1.0 s, A=20.0 mu, mPV=5.0.
28	iPg	15 37 34.5	D=1.4°.
	iSg	37 52.5	
28	eiP	17 46 46.5	Kamchatka 51.1°N 159.1°E, H=17 35 08, h=29 km (ISC), m=4.6 ISC, Dc=74.8°.
28	eP	18 41 44	
28	iPKP	22 31 20.6	C. New Hebrides 19.9°S 168.9°E, H=22 11 50, h=30 km(ISC), m=5.3 ISC, Dc=143.7°.
	ei	32 33.5	
28	eiPKIKP	23 43 56	Loyalty Islands 22.5°S 170.9°E, H=23 24 15.3, h=26 km(ISC), m=4.9 ISC, Dc=146.8°.
	ei	44 11	

Date	Phase	h m s	Remarks
29	eiP	00 57 19	Kamchatka 51.2°N 159.2°E, H=00 45 41.3, h=40 km (ISC), m=4.8 ISC, Dc=74.8°, LmN:15 s 1.3 u, MLH=5.3.
	i	57 31	
	Lm	01 35.4	
29	iP	02 42 19	D. Greece 38.9°N 21.1°E, H=02 39 24.8, h=1 km(ISC), m=5.8, Dc=12.0°, LmH:10 s 53 u, MLH=5.8, LmV: 10 s 38 u.
	i	42 29	
	eiS	44 30	
	i	44 43.5	
	L	45 24.5	
	Lm	47.7	
29	eiPKP	05 30 10	West of Tonga 22.0°S 179.5°W, H=05 11 25, h=584 km(ISC), m=4.4 ISC, Dc=150.0°.
29	eP	05 59 54	Japan 41.8°N 144.2°E, H=05 47 55.1, h=48 km(ISC), m=4.5 ISC, Dc=78.5°.
29	eiP	06 42 22.5	C. Japan 41.8°N 144.2°E, H=06 30 24.3, h=50 km (ISC), m=4.7 ISC, Dc=78.5°.
29	ePKIKP	07 27 24	Solomon Islands 6.8°S 155.6°E, H=07 08 31.0, h=99 km(ISC), m=4.9 ISC, Dc=126.0°.
29	eP	09 07 47	West Pakistan 27.6°N 65.7°E, H=08 59 38.3, h=47 km(ISC), m=4.9 ISC, Dc=44.7°.
	ei	08 00	
29	eiP	12 17 12	Eastern Mediterranean Sea 34.7°N 27.5°E, H=12 13 06.8, h=64 km(ISC), m=4.6 ISC, Dc=18.0°.
	ei	17 27	
29	iP	14 44 40.5	C. Japan 41.7°N 144.2°E, H=14 32 40.6, h=35 km (ISC), m=5.2 ISC, Dc=78.6°, TPV=1.2 s, A=32.3 mu, mPV=5.2, LmN:16 s 1.3 u, MLH=5.4.
	ei	44 48	
	eL	15 17	
	Lm	24	
29	eP	14 54 39	Hindu Kush 36.9°N 70.0°E, H=14 46 54.7, h=44 km (ISC), m=4.7 ISC, Dc=41.4°.
	e	56 29	
30	eiPKP	00 21 52.5	West of Tonga 20.7°S 176.2°W, H=00 02 27.2, h=208 km(ISC), m=4.4 ISC, Dc=149.6°.
30	eP	02 13 08	Greece 38.8°N 21.6°E, H=02 10 14, h=26 km(ISC), m=4.7 ISC, Dc=12.3°.
30	eiPKP	10 08 08.7	West of Tonga 21.2°S 178.8°W, H=09 50 15.5, h=502 km(ISC), Dc=149.4°.
30	e	11 56 01	
	ei	56 24.5	
30	eP	17 44 48	Eastern Caucasus 42.8°N 45.9°E, H=17 39 50, h=39 km(ISC), m=4.6 ISC, Dc=22.7°.
	ei	45 03	
30	e	17 52 42	

Date	Phase	h m s	Remarks
31	iPg	03 23 03.5	D=1.6°.
	iSg	23 24.5	
31	eP	18 35 06	Mona Passage 19.4°N 67.8°W, H=18 23 54.2, h= 55 km(ISC), m=5.0 ISC, Dc=70.5°.

Date	Phase	h m s	Remarks
1	e	15 12 16	
	eiSg	12 32	
1	eP	22 26 12	Crete 35.1°N 23.6°E, H=22 22 23, h=33 km(ISC), Dc=16.3°.
2	eiPg	11 14 29	
	ei	14 43	
2	iPg	14 52 36	D=1.1°.
	iSg	52 50.5	
3	eiP	11 48 37.5	Mona Passage 19.1°N 67.9°W, H=11 37 22.3, h=39 km (ISC), m=5.3 ISC, Dc=70.8°.
	ei	49 19	
3	e	12 33 23	
	eiSg	33 44	
3	iP	16 35 48	D. Mona Passage 19.2°N 67.9°W, H=16 24 31.3, h=
	ei	36 12	22 km(ISC), m=5.7 ISC, Dc=70.8°, TPV=1.7 s, A=
	eS	45 04	164.7 mu, mFV=5.9, LmN:17 s 5 u, MLH=6.0.
	ei	45 54.5	
	eL	55	
	Lm	17 08	
3	eP	21 53 00	Carlsberg Ridge 6.6°N 60.4°E, H=21 43 10.8, h=
	ei	53 16	33 km(ISC), m=4.8 ISC, Dc=57.8°.
4	iPg	17 34 18.3	C. Austria 47.4°N 11.4°E, H=17 33 21, h=0 km(ISC),
	i	34 39.8	Dc=3.4°.
	iSg	34 57.8	
5	ePKIKP	02 49 50	New Hebrides 19.2°S 169.4°E, H=02 30 12, h=9 km
	ei	50 23	(ISC), m=5.2 ISC, Dc=143.3°.
5	eiPg	09 31 57.5	Explosion of 9.4 Tons, Czechoslovakia 50.2°N
	iSg	32 00.5	14.4° E, H=09 31(PRU), Dc=0.2°.
	Lm	32 04	
5	iPg	11 33 56.2	D=1.8°.
	iSg	34 20.2	
5	iPg	12 00 26.0	D=1.4°.
	iSg	00 44.5	
5	eiPKHKP	13 04 46.7	D. Tonga 15.2°S 175.1°W, H=12 45 13.9, h=31 km
	i	04 58.5	(ISC), m=5.4 ISC, Dc=144.4°, LmN:22 s 6.8 u,
	ei	06 08	MLH=6.4.
	eL	50	
	Lm	14 09	
5	eiPKP	14 01 46.5	Loyalty Islands 22.6°S 172.7°E, H=13 42 10.5, h=100 km(ISC), m=4.9 ISC, Dc=147.7°.
5	eiP	19 02 42	Nepal 28.2°N 83.9°, H=18 53 03.3, h=33 km(ISC), m=4.8 ISC, Dc=55.9°.

Date	Phase	h m s	Remarks
6	eP	04 02 04	Kurile Islands 45.4°N 151.2°E, H=03 50 09.4, h=38 km(ISC), m=4.5 ISC, Dc=77.8°.
6	eP ei	08 34 55 35 44.5	North Atlantic Ocean 59.8°N 29.9°W, H=08 29 14.4, H=08 29 14.4, h=33 km(ISC), m=4.8 ISC, Dc=26.9°.
6	eiPn ei ei eiSn i	18 53 47.5 53 56 57 45 55 19.5 55 33.5	Yugoslavia 42.2°N 19.0°E, H=18 51 44.1, h=37 km (ISC), m=4.8 ISC, Dc=8.4°.
6	eiPKP	20 05 55.4	West of Tonga 20.1°S 177.5°W, H=19 47 01, h=469 km(ISC), m=3.9 ISC, Dc=148.7°.
7	eP	04 17 09	Tibet 33.9°N 80.9°E, H=04 08 11, h=19 km(ISC), m=4.7 ISC, Dc=50.2°.
7	eiPg eiSg	09 30 53 31 08	D=1.2°.
7	eiPg iSg	13 14 17 14 40	D=1.7°.
7	eiPg iSg	14 22 47 23 05.5	D=1.4°.
7	eiPKIKP ei	17 57 14 57 22	Tonga 15.5°S 173.2°W, H=17 37 39.5, h=33 km(ISC), m=4.9 ISC, Dc=145.0°.
8	eP ei	11 47 44 47 53.5	Aleutian Islands 52.5°N 173.1°E, H=11 35 57.0, h=31 km(ISC), m=4.8 ISC, Dc=76.3°.
8	eiPg eiSg	12 35 57.5 36 19.5	D=1.6°.
8	eiPg iSg	12 40 24 40 42	D=1.4°.
8	ePn ePg e	14 24 45 25 20 26 25	Yugoslavia 43.9°N 19.4°E, H=14 23 11.0(BEO), Dc=7.2°.
8	eiP	14 40 45.5	Burma 25.9°N 96.6°E, H=14 30 03, h=42 km(ISC), m=4.5 ISC, Dc=65.7°.
8	e eiSg	15 36 41 36 54.9	
8	eiPKIKP	16 59 06	Loyalty Islands 22.3°S 170.8°E, H=16 39 23, h=0 km(ISC), Dc=146.7°.
9	eiPg eiSg	09 08 21.5 08 40	D=1.4°.

Date	Phase	h m s	Remarks
9	eP e	11 38 43 39 07	Taiwan 26.8°N 125.6°E, H=11 26 25.0, h=45 km(ISC), m=5.3 ISC, Dc=82.2°.
9	e	11 41 34	
9	e eiSg	12 00 28 00 41.6	
9	ePg eiSg ei	12 50 52.5 51 18.3 51 44	D=2°.
9	iPg eiSg	13 49 07.5 49 32	D=1.8°.
9	eP	14 21 41	Aleutian Islands 51.9°N 173.8°W, H=14 09 44.6, h=46 km(ISC), m=4.8 ISC, Dc=78.2°.
9	eP ei e eL Lm	15 15 08.5 15 29 17 40 19 19.4	Greece-Albania 39.2°N 20.5°E, H=15 12 28, h=35 km (ISC), m=4.9 ISC, Dc=11.6°, LmH:12 s 1.8 u, MLH=4.3.
9	eiP	22 06 55	C. Mona Passage 19.2°N 67.9°W, H=21 55 40.5, h=42 km(ISC), m=5.1 ISC, Dc=70.7°.
10	ePP ei	03 21 19 21 47	Argentina 32.0°S 68.4°W, H=03 02 32.2, h=110 km (ISC), m=5.9 ISC, Dc=109.6°.
10	iPg ei iSg	07 30 25.5 30 42.5 30 43.2	D=1.4°.
11	iPg iSg	11 05 11.5 05 36	D=1.9°.
11	eiPg eiSg	12 18 23.5 18 51	D=2°.
11	ePg ei iSg ei	12 50 47 51 29.5 51 54.5 52 35	Northern Italy 45.5°N 11.6°E, H=12 49 12(BCIS), Dc=4.9°.
11	ei	12 53 40.5	
11	ePg eiSg	14 22 01 22 29.5	D=2.3°.
11	eiP eiPcP	15 43 01 43 12	Aleutian Islands 52.3°N 169.1°W, H=15 31 04.4, h=37 km(ISC), m=5.5 ISC, Dc=78.1°.
11	eiP ei	16 15 03.3 15 10.5	Kurile Islands 50.2°N 155.6°E, H=16 03 37.3, h=137 km(ISC), m=5.1 ISC, Dc=74.8°.

Date	Phase	h m s	Remarks
11	iPn	16 17 23.5	D. Yugoslavia 45.7°N 15.9°E, H=16 16 17, h=29 km
	i	17 31.2	(ISC), Dc=4.4°.
	ei	18 21	
	eiSg	18 46.5	
	Lm	19 18	
11	eiPKIKP	18 16 40	West of Tonga 17.6°S 177.1°W, H=17 57 39.5, h=
	eipPKIKP	18 10.5	347 km(ISC), m=4.7 ISC, Dc=146.3°.
11	ePn	18 36 15	
	ei	36 22	
	ei	36 56	
12	iPg	08 29 55.8	Explosion of 6.6 Tons, Czechoslovakia 50.6°N
	iSg	30 06.3	15.4°E, H=08 29(PRU), Dc=0.8°.
12	eiPg	10 04 01.5	D=1.6°.
	iSg	04 22.5	
12	e	12 13 53	Japan 33.0°N 130.3°E, H=12 01 44.1, h=20 km(ISC),
	ei	13 59.5	m=5.0 ISC, Dc=79.7°.
12	iP	13 01 44.0	C. Japan 41.7°N 144.3°E, H=12 49 41.0, h=16 km
	i	01 51.5	(ISC), m=5.9 ISC, Dc=78.6°, TPV=1.1 s, A=201.6mu,
	ei	02 45	mPV=6.1, LmH:16 s 4.4 u, MLH=5.9, LmV:16 s 5 u.
	ei	04 34	
	eS	11 40	
	eL	28	
	Lm	41	
12	eiPKIKP	16 14 39.5	New Guinea 4.8°S 134.1°E, H=15 56 04.9, h=33 km
	ei	15 26.5	(ISC), m=5.3 ISC, Dc=112.4°.
12	eP	17 45 50	Kurile Islands 45.4°N 151.8°E, H=17 33 52, h=
			24 km(ISC), m=4.7 ISC, Dc=78.0°.
12	eiPKP	19 04 22	New Hebrides 15.7°S 167.2°E, H=18 45 00, h=27 km
	i	04 30.0	(ISC), m=5.6 ISC, Dc=139.3°.
	ei	04 48.5	
	eiPP	07 22.5	
12	eiPKP	19 08 03.5	Chile 18.2°S 70.2°W, H=18 49 32, h=33 km(ISC),
	ei	08 23	m=5.0 ISC, Dc=100.4°, LmH:22 s 3.5 u, MLH=5.8,
	ei	09 29.5	LmV:22 s 6 u.
	Lm	20 05.5	
12	e	19 16 15	
12	eiP	23 17 09	Japan 41.7°N 144.4°E, H=23 04 57.8, h=20 km(ISC),
			m=4.7 ISC, Dc=78.7°.
13	iP	03 02 48.0	C. Leevard Islands 17.1°N 61.9°W, H=02 51 53.4,
	ei	03 08.5	h=92 km(ISC), m=5.4 ISC, Dc=68.5°, TPV=1.5 s,
	ei	03 14.5	A=95.5 mu, mPV=5.5.

Date	Phase	h m s	Remarks
13	e	08 44 32	
13	e	12 34 23	
	ei	34 46	
	ei	35 10.5	
	ei	35 32	
13	eiP	15 06 59	Crete 34.6°N 23.4°E, H=15 03 05, h=43 km(ISC),
			Dc=16.7°.
13	eP	21 21 42	Komandorsky Islands 53.7°N 169.2°E, H=21 10 04.2,
			h=33 km(ISC), m=4.7 ISC, Dc=74.5°.
13	eiP	22 58 23.5	Crete 34.6°N 23.9°E, H=22 54 20.6(ATH), Dc=16.9°.
14	eiPg	16 19 34	D=1.5°.
	eiSg	19 53	
14	e	22 15 34	
	ei	16 01	
15	eiP	00 20 04	C. Aleutian Islands 51.3°N 179.9°W, H=00 08 07.8,
			h=49 km(ISC), m=5.1 ISC, Dc=78,3°.
15	iPg	09 00 25.2	
	iSg	00 44.7	
15	iPg	14 11 08.5	D=1.5°.
	eiSg	11 27.5	
15	eiPg	16 02 39	D=1.2°.
	eiSg	03 04.5	
15	eP	16 31 06.5	Aleutian Islands 51.2°N 176.5°W, H=16 19 08.0,
			h=53 km(ISC), m=5.1 ISC, Dc=78.8°.
16	eiP	02 12 39	Aleutian Islands 51.3°N 170.5°W, H=02 00 37.6,
	ei	12 52	h=48 km(ISC), m=4.7 ISC, Dc=79.0°.
16	eiPKP	06 18 18.9	West of Tonga 19.9°S 176.2°W, H=05 58 31.7, h=
			51 km(ISC), m=4.8 ISC, Dc=148.8°.
16	ei	09 07 33.5	
16	iPg	13 11 13.4	D=11 km. Explosion?
	iSg	11 14.7	
	Lm	11 16	
16	iPg	13 20 40	D=2°.
	eiSg	21 07.5	
16	iPg	16 01 09.8	
	i	01 20.3	
	i	01 35.7	

Date	Phase	h m s	Remarks
16	eiP	20 55 56	Kurile Islands 46.5°N 153.7°E, H=20 43 56, h= 2 km(ISC), m=4.9 ISC, Dc=77.6°.
16	eiP	23 28 04.6	C. Aleutian Islands 52.6°N 169.5°W, H=23 16 11.4, h=53 km(ISC), m=5.0 ISC, Dc=77.8°, TPV=1.0 s, A=20.0mu.
17	e	09 53 47	
17	iPg iSg	12 15 36 15 57.5	D=1.6°.
17	eiPg ei	15 03 16 03 25.5	
17	eiPg e eiSg	15 17 10 17 29 17 36	D=2°.
17	eP	19 39 01	Kurile Islands 46.5°N 153.7°E, H=19 27 06.9, h= 36 km(ISC), m=4.6 ISC, Dc=77.6°.
18	eiPg iSg	10 07 12.5 07 34.5	D=1.6°.
18	eiPg iSg	11 32 53.5 33 16.5	D=1.7°.
18	iPg ei	12 39 04.0 39 27.5	
18	iPg iSg	13 00 28.7 00 45.2	D=1.1°.
18	iPg iSg	14 31 42.5 32 01.5	D=1.5°.
18	eiPg ei	14 58 24.5 58 33.5	Explosion of 1.6 Tons, Czechoslovakia 50.8°N 14.4°E, H=14 58(PRU), Dc=0.8°.
18	iPg i ei	14 59 52 59 59 15 00 04	Explosion of 12.6 Tons, Czechoslovakia 50.6°N 14.4°E, H=14 59(PRU), Dc=0.6°.
18	eP	18 13 04	Greenland Sea 73.2° 6.5°E, H=18 07 53.8, h= 33 km(ISC), m=4.8 ISC, Dc=23.6°.
18	eiP ei	18 53 53.5 54 32	Greenland Sea 73.1°N 6.0°E, H=18 48 45.4, h= 31 km(ISC), m=4.7 ISC, Dc=23.5°.
18	eiP ei	19 52 54 53 06	C. North Atlantic Ridge 24.1°N 46.2°W, H=19 43 39, h=59 km(ISC), m=4.7 ISC, Dc=53.3°.
18	e	21 27 04	North Atlantic Ridge 23.1°N 46.3°E, H=21 17 33, h=33 km(ISC), m=4.5 ISC, Dc=54.0°.

Date	Phase	h m s	Remarks
19	eiP ei	05 32 05.5 32 25.5	C. Japan 37.6°N 141.5°E, H=05 19 55.3, h=59 km (ISC), m=5.3 ISC, Dc=81.1°, TPV=1.0 s, A=27.3 mu, mPV=5.1.
19	eiP i ei	07 16 25 16 29.5 19 38	C. Crete 35.0°N 23.5°E, H=07 12 38, h=17 km(ISC), m=5.2 ISC, Dc=16.3°.
19	eiP ei	07 43 16.5 43 31	C. Japan 40.4°N 142.5°E, H=07 31 16.4, h=41 km (ISC), m=4.7 ISC, Dc=79.0°.
19	eiP	07 53 38	Burma 18.4°N 95.3°E, H=07 42 30.7, h=79 km(ISC), m=5.1 ISC, Dc=70.3°, TPV=1.0 s, A=22.5 mu, mPV= 5.1.
19	eiPg ei ei(Sg)	12 06 05 06 28 06 43.5	
19	e	13 49 35	
19	eP ei	17 50 18 50 24	North Atlantic Ridge 24.0°N 46.4°W, H=17 41 06, h=112 km(ISC), m=4.8 ISC, Dc=53.4°.
20	eP	01 09 09	North Atlantic Ridge 24.1°N 46.4°W, H=00 59 50.8, h=33 km(ISC), m=5.1 ISC, Dc=53.4°.
20	ePKP2	17 08 03	South Pacific Cordillera 55.3°S 129.1°W, H= 16 47 33.5, h=33 km(ISC), m=5.1 ISC, Dc=157.5°.
20	e e	19 13 40 14 06	South Pacific Cordillera 55.3°S 128.8°W, H= 18 53 31.6, h=31 km(ISC), m=5.6 ISC, Dc=157.3°.
21	eP	11 25 03	Mexico 18.6°N 102.5°W, H=11 11 59.5, h=64 km(ISC), m=4.8 ISC, Dc=92.1°.
21	eiP e	12 31 18 31 44	D. Kurile Islands 46.6°N 152.6°E, H=12 19 30.3, h=66 km(ISC), m=5.4, ISC, Dc=77.1°, TPV=1.0 s, A=35.0 mu, mPV=5.2.
22	iP eipP ei	06 40 43.5 42 22.7 44 15	C. Sea of Okhotsk 48.0°N 146.8°E, H=06 29 52.4, h=443 km(ISC), m=5.5 ISC, Dc=74.1°, TPV=1.2 s, mPV=5.4.
22	eiP	09 04 05	C. Aleutian Islands 52.2°N 172.6°E, H=08 52 13, h=8 km(ISC), m=5.0 ISC, Dc=76.6°, TPV=0.9 s, A= 19.0 mu, mPV=5.2.
22	eiP	12 25 25	C. Mona Passage 19.2°N 67.9°W, H=12 14 10.0, h= 37 km(ISC), m=4.9 ISC, Dc=70.7°, TPV=1.0 s, A= 12.1 mu, mPV=5.0.
22	eiPg eiSg	13 07 11 07 26.5	D=1.1°.

Date	Phase	h m s	Remarks
22	eiP	14 18 34	Explosion of 3.35 Tons, Germany 51.4°N 12.9°E,
	eiSg	18 55	H=14 17(CLL), Dc=1.7°.
22	iPg	15 12 40	D=1.8°.
	eiSg	13 01.5	
22	eiP	16 06 47	Aleutian Islands 52.2°N 172.6°E, H=15 54 58.8,
	ei	06 57	h=32 km(ISC), m=4.5 ISC, Dc=76.6°.
22	ePn	19 27 53	Poland 50.4° N 18.8°E, H=19 27 03.7(WAR), Dc=
	eiSg	28 35	2.8°.
23	ePKP	02 38 31	New Hebrides 14.9°S 166.8°E, H=02 19 14.3, h=
	ei	38 38	52 km(ISC), m=5.5 ISC, Dc=138.4°.
	eiPP	41 25	
	eiPKS	42 07.5	
23	ei	14 54 21.5	Poland 50.3°N 18.9°E, H=14 53 28.7(WAR), Dc=2.8°.
	eiSg	54 58.5	
23	eiPKP	18 36 53.5	West of Tonga 20.2°S 177.7°W, H=18 17 59.2, h=
			468 km(ISC), m=4.1 ISC, Dc=148.8°.
24	eiP	07 05 07.3	C. Kodiak Island 56.6°N 152.8°W, H=06 53 36.8,
	ei	05 23.5	h=28 km(ISC), m=4.7 ISC, Dc=73.2°.
24	ePKP1	07 51 50	Kermadec Islands 30.7°S 177.8°W, H=07 31 51, h=
	eiPKP2	52 24	5 km(ISC), m=5.0 ISC, Dc=158.6°.
24	eiPg	08 00 57	Explosion of 15.0 Tons, Germany 51.3°N 12.7°E,
	eiSg	01 20	H=08 00(CLL), Dc=1.7°.
24	iPg	12 59 05.5	Explosion of 1.2 Tons, Czechoslovakia 50°07′N
	eiSg	13 00 04.5	13°32.5′E(PRU), Dc=72 km.
	Lm	00 24	
25	ePKIKP	03 38 26	Fiji 15.6°S 179.3°E, H=03 18 53.2°, h=53 km(ISC),
	e	38 52	m=5.0 ISC, Dc=143.5°.
25	eiPg	07 32 37.3	D=1.5°.
	eiSg	32 56.3	
	Lm	33 08	
25	iPg	08 35 02.5	D=98 km. Explosion?
	iSg	35 14	
	Lm	35 21	
25	ePg	09 12 09	D=2.2°.
	eiSg	12 37	
25	iPg	11 03 47.4	D=1°
	eiSg	04 00.4	

Date	Phase	h m s	Remarks
25	eiPg	14 10 14	D=1.1°.
	eiSg	10 29	
26	eiPg	10 17 07.5	D=2.1°.
	eiSg	17 35	
26	iPg	12 50 26.5	D=1.6°.
	eiSg	50 48	
26	eiPg	15 19 43	D=1.6°.
	eiSg	20 05	
27	eiP	04 21 52.5	Southern Alaska 60.1°N 146.0°W, H=04 10 42.5,
			h=16 km(ISC), m=4.7 ISC, Dc=69.2°, TIV=1.5 s, A=
			33.2 mu, mPV=5.3.
27	eiP	04 26 38.8	Gulf of Alaska 59.9°N 146.2°W, H=04 15 33, h=
			24 km(ISC), m=4.5 ISC, Dc=69.3°.
27	eiP	12 59 51	C. Kurile Islands 48.1°N 153.0°E, H=12 48 03.8,
	ei	13 00 11.5	h=45 km(ISC), m=4.8 ISC, Dc=76.5°.
27	eiP	20 18 59	Svalbard 78.5°N 5.8°E, H=20 13 01.7, h=31 km(ISC),
	ei	19 08	m=5.4 ISC, Dc=28.8°.
	ei	20 22	
28	eP	07 45 51	South of Panama 6.7°N 82.8°W, H=07 32 53.8, h=
			31 km(ISC), m=5.4 ISC, Dc=89.6°.
28	eP	12 00 54.5	Kamchatka 54.0°N 161.0°E, H=11 49 29.3, h=34 km
			(ISC), m=4.4 ISC, Dc=72.6°.
28	ePg	12 36 55	D=1.8°.
	eiSg	37 18.5	
28	eiPn	12 58 07.5	Poland 50.4°N 18.9°E, H=12 57 22.5(WAR), Dc=2.8°.
	ei	58 14	
	eiSn	58 42.5	
	i	58 50	
	eiSg	58 55	
28	eiPKIKP	13 08 22	Loyalty Islands 22.3°S 171.5°E, H=14 48 54.2, h=
			130 km(ISC), m=4.8 ISC, Dc=147.0°.
29	eP	05 12 52	North Atlantic Ridge 26.3°N 44.8°W, H=05 03 55,
			h=74 km(ISC), m=4.9 ISC, Dc=50.8°.
29	iPKIKP	08 19 03.5	C. Fiji 15.9°S 176.8°W, H=08 00 09.4, h=369 km
			(ISC), m=4.7 ISC, Dc=144.7°.
29	eP	09 34 14	South Indian Ocean 9.8°S 90.0°E, H=09 21 22.4,
			h=30 km(ISC), m=5.0 ISC, Dc=68.6°.

Date	Phase	h m s	Remarks
29	iPg	13 52 03.4	D=1.5°.
	ei	52 22	
	iSg	52 24.5	
29	eiP	17 28 34	Japan 42.2°N 143.0°E, H=14 08 15.8, h=62 km(ISC), m=4.1 ISC, Dc=77.7°.
29	ePKIKP	22 36 34	New Hebrides 14.7°S 167.4°E, H=22 17 31.2, h= 174 km(ISC), m=5.2 ISC, Dc=138.4°.
	ei	36 39.5	
	e	37 42	
	ei	41 16	
30	eP	02 24 37.5	Crete 34.8°N 23.4°E, H=02 20 47, h=33 km(ISC), Dc=16.5°.
30	e	12 49 52	
	eiSg	50 14	
30	eiP	13 05 50.5	Greenland Sea 73.3°N 6.7°E, H=13 00 39.8, h= 30 km(ISC), m=4.7 ISC, Dc=23.7°, TPV=1.1 s, A= 26.1 mu, mPV=4.8.
30	iPg	14 02 08.5	D=1.1°.
	iSg	02 22	
30	iPg	14 10 29.4	D=1.5°.
	iSg	10 48.9	
30	iPg	15 31 50.5	D=1.5°.
	iSg	32 09.5	
30	eiPKIKP	22 29 15	New Ireland 4.7°S 153.1°E, H=22 10 25, h=57 km (ISC), m=4.9 ISC, Dc=123.0°.

Date	Phase	h m s	Remarks
1	eP	03 36 08	
1	eiP	04 40 28.5	Southern Alaska 60.2° N 146.1°W, H=04 29 20,
	i	40 32.5	h=2 km(ISC), m=4.8 ISC, Dc=69.1°.
1	eiPKHKP	05 16 01.5	New Hebrides 14.0°S 167.0°E, H=04 56 58.9, h=
	PKIKP	16 10	136 km(ISC), m=6.0 ISC, Dc=137.7°, LmN:25 s
	ei	17 36.5	4.3 u, MLH=6.2.
	eiPP	18 57.5	
	ei	24 38	
	eSS	36 56	
	e	44 25	
	Lm	06 13.8	
1	iPg	08 00 39.5	D=1.4°.
	iSg	00 57.5	
1	eiP	19 07 58	D. Japan 41.6°N 139.8°E, H=18 56 24.1, h=184 km
	ei	08 11.5	h=184 km(ISC), m=5.4 ISC, Dc=77.0°.
	eiPP	10 45	
	ePPP	12 37	
2	eP	03 15 00	Southern Persia 28.2°N 53.6°E, H=03 07 53, h= 35 km(ISC), m=4.9 ISC, Dc=36.7°.
2	iPg	07 23 40.5	D=1.5°.
	eiSg	23 59.5	
3	eiPg	07 47 04.5	Czechoslovakia 49.7°N 18.4°E, H=07 46 14, h=
	eiSg	47 44	0 km(ISC), Dc=2.5°.
3	eiPKIKP	14 32 17	South of Fiji 24.8°S 180.0°E, H=14 13 25.2, h=
	iPKP1	32 25.0	493 km(ISC), m=5.1 ISC, Dc=152.4°.
	iPKP2	32 38.1	
	eipPKP1	34 28	
4	ePKIKP	18 21 45	Samoa region 15.5°S 172.9°W, H=18 02 10.1, h=
	ei	22 10	33 km(ISC), m=4.7 ISC, Dc=145.1°.
5	eiPKP2	05 09 32	Tonga 21.5°S 174.7°W, H=04 49 39.3, h=33 km(ISC), m=4.7 ISC, Dc=150.6°.
6	eP	07 30 25	Kurile Island 50.1°N 159.8°E, H=07 18 38.7, h= 15 km(ISC), m=5.3 ISC, Dc=76.0°.
6	eiPKP	11 27 07	C. Tonga 18.2°S 175.1°W, H=11 07 46.1, h=203 km (ISC), m=4.4 ISC, Dc=147.4°.
7-8			Operation interrupted.

Date	Phase	h m s	Remarks
8	eiPn	11 33 21.8	D. Yugoslavia 42.2°N 18.9°E, H=11 31 20.6, h=
	ei	34 43	47 km(ISC), m=5.1 ISC, Dc=8.4°.
8	eiPg	11 47 15.4	D=1.1°.
	eiSg	47 30	
8	ePg	12 35 23	D=1.8°.
	eiSg	35 46.5	
8	eP	15 14 16	Komandorsky Islands 56.3°N 169.4°E, H=15 03 01.5, h=35 km(ISC), m=4.9 ISC, Dc=71.2°.
8	eP	18 42 38	Yugoslavia 43.6°N 17.2°E, H=18 40 57, h=0 km(ISC),
	ei	43 21	Dc=6.6°.
	ei	44 08.5	
8	eP	23 29 17	Southern Alaska 60.1°N 146.2°W, H=23 18 09.9, h=27 km(ISC), m=4.5 ISC, Dc=69.2°.
9	eiPg	09 59 51.2	Explosion of 30.3 Tons 48.46°N 14.52°E, Dc=0.5°.
	iSg	59 55.5	
9	eiPg	12 38 38	D=1°.
	eiSg	38 51.4	
9	ePg	13 54 10.5	D=1.5°.
	eiSg	54 31	
9	ePg	14 33 39	D=3°.
	eiSg	34 19.8	
9	eiP	16 55 53	Aleutian Islands 51.7°N 174.7°E, H=16 43 59.8,
	ei	56 08.3	h=31 km(ISC), m=5.2 ISC, Dc=77.3°, TPV=1.0 s, A=30.5 mu, mPV=5.4.
10	eiP	13 19 24	Mexico 14.4°N 92.0°W, H=13 06 31.5, h=53 km(ISC),
	ei	21 49	m=5.6 ISC, Dc=89.4°, LmH:20 s 16 u, MLH=6.4,
	eSKS	29 56	LmE:18 s 13 u, LmV:20 s 6 u,
	ei	31 36	
	eiSS	36 06	
	eiSSS	39 55	
	eL	51	
	Lm	14 00.5	
	Lm	04	
10	eP	17 12 19.8	Turkey 41.1°N 35.6°E, H=17 08 33, h=13 km(ISC),
	ei	12 46.8	m=4.8 ISC, Dc=16.0°, TPV=1.1 s, A=40.5 mu, mPV=
	eiS	15 28	4.5, LmH:14 s 6.4 u, MLH=4.9, LmV:14 s 2.5 u,
	ei	17 54	SH:9 s 2.4 u, SV:9 s 1 u.
	Lm	21	
10	eP	18 28 36	New Guinea 3.5°S 145.0°E, H=18 09 15.9, h=40 km
	e	39 08	(ISC), m=5.4 ISC, Dc=118.0°, LmH:19 s 6 u.
	e	49 01	
	eL	19 02	
	Lm	20	

Date	Phase	h m s	Remarks
11	eiP	19 59 27	Japan 42.9°N 144.7°E, H=19 47 35.4, h=67 km(ISC),
	eL	20 52	m=4.9 ISC, Dc=77.8°, LmH:20 s 1.9 u, MLH=5.5.
	Lm	21 14	
12	ePKIKP	05 46 04	West of Tonga 21.5°S 179.3°W, H=05 27 19.2, h=
			564 km(ISC), m=4.2 ISC, Dc=149.6°.
12	e(Pg)	07 38 04	Switzerland 46.2°N 6.7°E, H=07 36 18, h=33 km
	eiSg	39 23	(ISC), Dc=6.5°.
12	ePKP2	11 18 35	New Zealand 29°S 176°E, H=10 58 05(LAC), Dc=154.8°
12	eiPg	14 31 27	D=1.1°.
	eiSg	31 42.2	
13	e	09 09 26	Yugoslavia 46.0°N 16.0°E, H=09 08 17(BCIS), Dc=
	eiPg	09 38	4.1°.
	ei	10 10	
	eiSg	10 27	
13	eiPg	12 06 26	D=100 km.
	eiSg	06 38.2	
13	eiP	12 28 46.5	D. Afghanistan-USSR 37.3°N 71.8°E, H=12 21 01.7,
	ei	29 13.8	h=118 km(ISC), m=5.3 ISC, Dc=42.3°, TPV=1.0 s,
	eiPP	30 30.6	A=53.2 mu, mPV=5.2.
14	eP	02 10 17	Kamchatka 56.7°N 161.6°E, H=01 59 06.3, h=43 km
			(ISC), m=4.5 ISC, Dc=70.2°.
14	eiP	03 55 29	C. Aleutian Islands 52.6°N 177.6°W, H=03 44 02.4,
	eipP	56 29.5	h=252 km(ISC), m=5.1 ISC, Dc=77.1°.
	eiPP	58 18.5	
14	eiP	11 16 36.2	Japan 36.1°N 139.8°E, H=11 04 24.0, h=65 km(ISC),
			m=4.5 ISC, Dc=81.6°.
14	eiPKP2	11 35 54.7	Komandor Islands 28.5°S 178.7°W, H=11 16 00.3,
			h=253 km(ISC), m=4.5 ISC, Dc=156.3°.
14	ePg	12 31 52	
	ei	32 29.4	
14	eiP	14 52 08.6	D. Rumania 45.7°N 26.4°E, H=14 49 59.7, h=151 km
			(ISC), m=4.8 ISC, Dc=9.0°, TPV=1.0 s,A=83.2 mu,
			mPV=5.3.
14	eiPKIKP	21 26 33	New Guinea 4.0°S 144.1°E, H=21 07 52.5, h=70 km
	ei	26 35.4	(ISC), m=5.7 ISC, Dc=118.3°.
	eiPP	27 54.5	
14	ei	21 36 47.5	South Atlantic Ridge 18°S 15°W, H=21 33 29, m=
	ei	37 13.5	5.3(LAC), Dc=73.0°.
	ei	40 11.8	
	ei	40 55	

Date	Phase	h m s	Remarks
15	eiP ei	02 18 52.5 19 15.5	Burma 21.5°N 94.4°E, H=02 08 03.1, h=64 km(ISC), m=5.4 ISC, Dc=67.4°, TPV=1.0 s, A=53.2 mu, mPV=5.4.
15	eiPg eiSg	13 00 05.2 00 16.5	D=95 km.
16	eP	01 38 52	Kurile Isl. 49.0°N 156.3°E, H=01 27 06.3, h=35 km(ISC), m=4.4 ISC, Dc=76.1°.
16	eiPg i iSg Lm	05 03 33.5 03 35.5 03 37.5 03 46	D. Czechoslovakia 50.2°N 14.1°E, H=05 03 27 (BCIS), Dc=0.4°, TPV=0.7 s, A=58.8 mu, LmV: 1 s 0.6 u, MLV:1.5. Damaging rock burst, region of Vinařice-Kladno.
16	eiPg eiSg	13 01 30.7 01 47.2	D=1.3°.
16	eiP i eiPP	21 01 34 01 40.5 03 41	Nepal-India 29.6°N 80.8°E, H=20 52 16.3, h=19 km (ISC), m=5.7 ISC, Dc=53.0°.
17	eiP ei	06 04 30.8 04 52.5	C. Jan Mayen Isl. 70.9°N 14.1°W, H=05 59 07.7, h=9 km(ISC), m=5.0 ISC, Dc=24.8°.
17	ePKP	06 01 33	South of Fiji 23.1°S 179.8°W, H=07 42 35.1, h=476 km(ISC), m=4.4 ISC, Dc=150.9°.
17	ePg eiSg	09 33 30 33 33.7	D=28 km.
17	ePg eiSg	12 45 12 45 25.7	D=1°.
17	ePg eiSg	18 53 49 54 27.8	D=3°.
18	ePn ei eiSn	01 45 13 45 16 45 42	Austria 47.8°N 16.3°E, H=01 44.5(BCIS), Dc=2.5°.
18	eiP eiPP	05 05 32.5 07 00.5	C. Kazakhstan 49.9°N 77.8°E, H=04 57 57.9, h=0 km(ISC), m=5.8 ISC, Dc=39.6°, TPV=1.1 s, A=72.5 mu, mPV=5.2.
18	eiP	07 46 21.5	Crete 35.1°N 26.9°E, H=07 42 20, h=33 km(ISC), m=4.7 ISC, Dc=17.4°.
18	eP	13 09 57.5	
19	e eiSg	12 44 04 44 10	

Date	Phase	h m s	Remarks
20	eiP	00 36 54	D. Alaska 66.8°N 148.1°W, H=00 26 28.5, h=33 km (ISC), m=4.8 ISC, Dc=62.8°.
20	eiP	01 08 18.7	D. Alaska 66.8°N 148.4°W, H=00 57 53.8, h=33 km (ISC), m=4.9 ISC, Dc=62.8°.
20-22			Operation interrupted.
22	e ei	09 01 40 02 13	
22	eiPg eiSg	11 37 21 37 38	D=1.3°.
22	eP	13 12 12	
22	eiPg eiSg	15 07 03 07 15.5	D=1°.
22	eP	17 38 26.5	Kurile Isl. 43.7°N 147.3°E, H=17 26 36.5, h=93 km(ISC), m=4.3 ISC, Dc=78.0°.
22	eP	19 35 46	Kurile Isl. 48.7°N 154.4°E, H=19 24 07.3, h=80 km(ISC), m=5.1 ISC, Dc=75.9°.
23	eiPKP	01 29 54	C. West of Tonga 18.0°S 178.5°W, H=01 11 16.1, h=579 km(ISC), m=5.1 ISC, Dc=146.4°.
23	ePg eiSg	11 30 24 30 45.5	D=1.6°.
23	iPg iSg	12 19 16.5 19 32	D=1.1°.
23	eiPg ei iSg	12 49 54 50 14 50 18	D=1.8°.
23	iPg iSg	13 36 27 36 43	D=1.2°.
23	iPKIKP ei eiPF ei eiSKKS ei eiPS eiPPS ei eL Lm	16 09 12.5 09 28.5 10 39 12 40 17 34 19 08 20 38 22 10 27 48 43 17 02	C. New Guinea 7.1°S 148.3°E, H=15 50 21.3, h=46 km(ISC), m=6.1 ISC, Dc=122.5°, LmH:24 s 25 u, MLH=6.7, LmV:24 s 11 u.
24	eP	00 00 54	Kamchatka 54.7°N 162.5°E, H=23 49 25, h=13 km (ISC), m=4.8 ISC, Dc=72.3°.

Date	Phase	h m s	Remarks
24	eP	00 07 34	Kamchatka 54.5°N 162.3°E, H=23 56 09.5, h=33 km (ISC), m=4.7 ISC, Dc=72.4°.
24	eP	06 14 07	Volcano Islands 25.5°N 142.7°E, H=06 01 01.5,
	e	14 38	h=33 km(ISC), m=5.0 ISC, Dc=91.9°.
24	ePn	07 14 51	Austria 46.5°N 13.6°E, H=07 13 57.3, h=33 km
	eiPg	15 00	(ISC), Dc=3.6°.
	ei	15 17	
	ei	15 44	
	eiSg	15 48	
24	e	19 29 55	
	e	30 39	
	ei	31 05	
24	ePn	21 07 02	Yugoslavia 46.1°N 14.8°E, H=21 06 00(BCIS), Dc=
	eiPg	07 13	3.9°.
	ei	07 38	
	eiSn	07 46	
	eiSg	08 01	
24	eP	22 40 01	Southern Alaska 59.8°N 153.4°W, H=22 28 59.3,
	ei	40 30	h=106 km(ISC), m=5.1 ISC, Dc=70.1°.
25	eP	05 51 21	Arabian Sea 14.3°N 53.5°E, H=05 42 50, h=63 km
	e	52 16	(ISC), m=4.9 ISC, Dc=47.6°.
25	e	11 59 57	North Atlantic Ocean 37.5°N 17.1°W, H=11 54 09, h=25 km(ISC), m=4.5 ISC, Dc=25.8°.
25	eiPKP	13 01 11	C. Tonga 19.0°S 174.6°W, H=12 41 50, h=233 km (ISC), m=4.2 ISC, Dc=148.2°.
25	eP	19 55 51	Mediterranean Sea 35.2°N 28.2°E, H=19 51 44, h=61 km(ISC), m=4.9 ISC, Dc=17.8°.
25	eiP	23 15 14.5	Aleutian Islands 51.9°N 176.1°E, H=23 03 23, h=41 km(ISC), m=4.8 ISC, Dc=77.3°.
26	eP	01 35 40	Hindu Kush 36.4°N 69.8°E, H=01 28 01.4, h=128 km (ISC), m=5.2 ISC, Dc=41.7°.
26	eiP	04 25 51	Turkey 38.9°N 40.9°E, H=04 21 01, h=28 km(ISC), m=4.7 ISC, Dc=21.8°.
26	ePg	13 09 15	D=3°.
	ei	09 31.5	
	eiSg	09 56	
27	iP	01 34 28.5	C. Japan 37.2°N 141.1°E, H=01 22 17.7, h=59 km
	ei	34 44	(ISC), m=5.5 ISC, Dc=81.2°, THV=1.2 s, A=69.5mu,
	eiP	37 32	mlV=5.5.

Date	Phase	h m s	Remarks
27	eiPKP	12 10 03.5	South of Fiji 24.3°S 179.8°E, H=11 51 06.0,h= 502 km(ISC), m=4.7 ISC, Dc=151.9°.
27	eiPKP	21 45 57.5	Tonga 21.4°S 175.7°W, H=21 26 09.0, h=33 km(ISC), m=5.1 ISC, Dc=150.3°.
28	eP	08 32 19	Chile 25.5°S 70.7°W, H=08 18 05, h=23 km(ISC),
	ei	32 21.5	m=6.6 ISC, Dc=106.2°, LmH:26 s 205 u, LmH:22 s
	ei	33 27	240 u, MLH=7.7, LmV:22 s 90 u.
	ei	35 32	
	eiPP	36 37.5	
	ei	36 54	
	ei	40 00	
	ei	41 08	
	eiSKS	42 57	
	eiPS	45 59	
	ei	46 21	
	eiPPS	47 08	
	eiSS	51 30	
	Lm	09 13	
	Lm	15	
28	ePg	14 21 09	D=1°.
	eiSg	21 22	
29	eiP	06 32 12.5	Romania 45.5°N 26.5°E, H=06 30 02.4, h=123 km (ISC), m=4.3 ISC, Dc=9.2°.
29	e	11 39 34	
30	iPKP	01 18 53.5	C. Fiji 18.1°S 179.2°E, H=01 00 24.4, h=650 km
	ei	19 18	(ISC), m=5.1 ISC, Dc=145.8°.
	eipPKP	21 26	
30	iPg	12 29 08	D=1.5°.
	eiSg	29 28	
30	e	12 41 13	
	eiSg	41 46	
31	e	00 39 12	Lake Baikal 55.6°N 110.8°E, H=00 29 14.5, h= 20 km(ISC), m=4.8 ISC, Dc=54.5°.
31	eiPg	10 50 22	D=1.8°.
	ei	50 28	
	eiSg	50 46	
31	iPg	13 13 15.2	D=1.3°.
	iSg	13 32.2	
31	ePKIKP	18 42 21	Santa Cruz Isl. 11.9°S 166.4°E, H=18 23 08.8,
	ei	42 41	h=73 km(ISC), m=5.5 ISC, Dc=135.5°, LmH:22 s
	eiPP	45 17	320 u, MLH=8.0, LmV:22 s 135 u.

Date	Phase	h m s	Remarks
	eiPPP	18 48 14	
	i	48 42	
	ei	55 48	
	eiPPS	57 12	
	Lm	19 39	
	Lm	42.5	
31	ePKIKP	19 12 32	Santa Cruz 11.7°S 165.8°E, H=18 53 15, h=43 km
	ei	12 50	(ISC), m=5.1 ISC, Dc=135.1°.
	ei	16 02	
31	ePKIKP	19 57 46	Santa Cruz 11.6°S 165.8°E, H=18 53 15, h=43 km
	ei	12 50	(ISC), m=5.1 ISC, Dc=135.1°.
	ei	16 02	
31	ePKIKP	19 57 46	Santa Cruz 11.6°S 165.8°E, H=19 38 35, h=76 km
			(ISC), m=5.0 ISC, Dc=135.0°.
31	ePKIKP	22 34 34	Santa Cruz 12.1°S 165.7°E, H=22 15 17.1, h=36 km
	ei	34 42	(ISC), m=5.2 ISC, Dc=135.4°.
	ePP	37 14	L waves masked by the preceding shock.
	ei	38 12	
	ei	41 13	
	e	51 22	

List of local shocks (D < 100km) recorded by the station PRŮHONICE

July - December 1966

J.Nykles, B.Závorka

Remark:

The recorded events correspond to rock bursts in the regions of Kladno and Příbram and to quarry blasts. All explosions with known epicentres are included in the foregoing chapter. The values of periods and amplitudes correspond to the maximum surface waves Lm.

Date	Phase	h m s	Remarks
1	e	11 53 40	1 s 0.01 u, eiSg 53 48.7, Lm 53 53.
1	eiPg	12 28 49.5	D=29 km, 0.5 s 0.03 u, iSg 28 53, Lm 28 55.
2	e	09 03 54	1 s 0.01 u, Lm 03 58.
2	ei	22 50 09	1 s 0.01 u, eiSg 50 10.5, Lm 50 19.
4	iPg	12 37 49.5	D=39 km, 1 s 0.21 u, iSg 37 54, Lm 37 59.
5	ei	12 50 32	1 s 0.06 u, Lm 40 41.
6	eiP	12 32 26.6	D=29 km, eiSg 32 30.1.
7	e	11 55 35.5	1 s 0.06 u, iSg 55 46.5, Lm 55 52.
8	iPg	11 59 44.5	D=10 km, 1 s 0.2 u, iSg 59 46.5, Lm 59 49.
8	eiPg	12 10 13	D=39 km, 1 s 0.05 u, eiSg 10 17.5, Lm 10 22.
8	ePg	12 40 2L	D=55 km, 1 s 0.04 u, eiSg 40 26.5, Lm 40 30.
8	eiPg	15 00 59.5	D=100 km, eiSg 01 10.5.
8	eiPg	15 03 14.8	1 s 0.03 u, Lm 03 19.
8	eiSg	16 27 47	Lm 27 52.
9	e	10 42 12	0.7 s 0.03 u, eiSg 42 15.7, Lm 42 18.
9	ei	11 53 40	1 s 0.02 u, eiSg 53 42, ei 53 46.5, Lm 53 49.
11	e	10 46 41	1 s 0.02 u, eiSg 46 44.2, Lm 46 47.5.
11	e	11 15 50.5	
12	iPg	11 54 23.8	D=17 km, 0.7 s 0.15 u, iSg 54 25.8, Lm 54 28.
12	eiPg	12 40 11	D=55 km, 1 s 0.07 u, eiSg 40 17.6, Lm 40 20.
13	ei	12 30 16	0.7 s 0.03 u, eiSg 30 18, Lm 30 22.
14	e	12 41 29	1 s 0.06 u, eiSg 41 31.5, Lm 41 35.
15	ei	09 02 29.5	0.8 s 0.02 u, Lm 02 36.
15	ei	12 42 39	1 s 0.03 u, Lm 22 44.
15	eiPg	12 59 24	D=90 km, eiSg 59 34.5.
15	iPg	13 24 54	D=35 km, eiSg 25 04, Lm 25 14.
18	e	10 33 03	Lm 33 11.
18	e	12 30 21	0.6 s 0.02 u, Lm 30 26.
18	ePg	12 34 50	0.5 s 0.01 u, eiSg 34 53.5, Lm 34 55.5.
18	eiPg	12 41 46	1 s 0.06 u, Sg 41 52.5, Lm 41 57.5.
18	e	15 35 21	
20	eiPg	12 40 50	D=52 km, eiSg 40 56, Lm 40 59.
20	eiPg	12 59 32	D=42 km, 1 s 0.04 u, eiSg 59 37, Lm 59 41.
21	ePg	08 37 16.3	D=43 km, eiSg 37 21.5, Lm 37 25.
21	e	08 38 31	1 s 0.01 u, Lm 38 34.
21	e	10 05 51	1 s 0.02 u, ei 05 55.3, Lm 06 03.
22	eiPg	09 03 35	D=39 km, iSg 03 39.5, Lm 03 43.
22	ePg	11 39 12.8	D=35 km, 0.5 s 0.12 u, eiSg 39 17, Lm 39 23.
22	iPg	12 35 02.8	D=31 km, 0.5 s 0.44 u, iSg 35 05.3, Lm 35 07.
22	ei	12 40 07	Lm 40 11.
22	ei	12 40 50	1 s 0.04 u, Lm 40 54.
22	ei	14 17 15	1 s 0.04 u, ei 17 20, Lm 17 25.

Date	Phase	h m s	Remarks
23	e	09 15 13	Lm 15 20, 1 s 0.01 u.
25	e	12 41 33	1 s 0.03 u, Lm 41 35.
26	e	12 30 39	1 s 0.03 u, Lm 30 45.
26	ei	12 35 07	0.6 s 0.03 u, Lm 35 10.
27	ei	07 50 29.8	0.6 s 0.02 u, iSg 59 32.3, Lm 59 34.
27	iSg	12 30 57.5	Lm 30 59.8.
28	i	12 45 23.5	0.5 s 0.25 u, Lm 45 28.
29	eiSg	09 58 28	1 s 0.01 u, Lm 58 33.
29	eiSg	10 46 12	1 s 0.02 u, Lm 46 19.
29	eiPg	12 40 42	1 s 0.05 u, Lm 40 51.
			August 1966
2	ePg	09 43 34	D=46 km, 0.6 s 0.04 u, eiSg 43 39.5, Lm 43 43.
2	eiSg	12 31 27	0.6 s 0.05 u, Lm 31 30.
3	ei	12 15 34	Lm 15 36.
3	eiPg	12 39 44	D=42 km, 1 s 0.09 u, eSg 39 49, Lm 39 53.
3	e	13 29 05	Lm 29 10.
4	iPg	12 00 46.5	D=21 km, 0.5 s 0.03 u, iSg 00 49, Lm 00 51.
4	iPg	12 37 57.5	D=30 km, 0.5 s 0.07 u, iSg 38 01, Lm 38 03.
4	eiSg	12 40 42	1 s 0.04 u, Lm 40 46.
4	e	21 21 17	ei 21 22, Lm 21 29.
5	ePg	11 11 10	D=72 km, 1 s 0.01 u, eiSg 11 18.4, Lm 11 23.
5	iPg	15 56 54	D=13 km, 0.6 s 0.2 u, iSg 56 55.5, Lm 56 56.
7	eiSg	06 46 45.5	1 s 0.03 u, Lm 46 53.
8	eSg	06 05 58	1 s 0.01 u, Lm 06 06.
8	e	13 23 16	1 s 0.02 u, Lm 23 26.
9	iPg	13 51 41	D=93 km, 1 s 0.03 u, iSg 51 51, Lm 51 58.
10	e	08 56 44	1 s 0.02 u, Lm 56 50.
10	eiSg	12 27 41.5	Lm 27 44.5.
10	eiPg	12 40 34.5	D=39 km, 1s 0.1 u, iSg 40 39, Lm 40 43.
11	ePg	09 25 41	1 s 0.04 u, e 25 44.5, Lm 25 50.
11	ePg	12 27 16.7	D=29 km, 0.6 s 0.03 u, eiSg 27 20.2, Lm 27 23.5.
11	iPg	12 29 36.8	D=29 km, iSg 29 42.3.
11	eiSg	12 38 08	1 s 0.01 u, Lm 38 13.
11	iPg	17 31 13.7	D=51 km, 0.5 s 0.27 u, iSg 31 19.7, Lm 31 24.
12	eSg	17 37 18	Lm 37 21.
12	ePg	19 05 07	1 s 0.06 u, Lm 05 16.
13	eiSg	09 35 44.5	1 s 0.02 u, Lm 35 53.

Date	Phase	h m s	Remarks
15	ePg	12 25 23	D=34 km, 0.7 s 0.06 u, iSg 25 27, Lm 25.
15	iPg	16 31 52.4	D=20 km, 0.5 s 0.07 u, iSg 31 54.9, Lm 31 57.
16	e	07 23 45	Lm 23 50.
16	e	10 06 43	1 s 0.03 u, Lm 06 48.
17	iPg	09 56 46.5	D=39 km, 1 s 0.07 u, i 56 48.5, iSg 56 52, Lm 59.
17	iPg	12 03 14	D=34 km, eSg 03 18.
17	eiSg	12 37 34.5	1 s 0.05 u, Lm 37 38.
17	eiPg	12 38 18.6	D=39 km, 1 s 0.12 u, iSg 28 23.1, Lm 28 27.
17	iPg	22 24 02	D=39 km, 1 s 0.07 u, i 24 04, iSg 24 06.5, L 24 11.
18	e	11 34 02.5	1 s 0.01 u , Lm 34 09.
19	iPg	09 44 38	D=34 km, 1 s 0.04 u, iSg 44 42, Lm 44 47, Lm 51.
20	e	13 17 38	1 s 0.03 u, eiSg 17 41.5, Lm 17 49.
23	iPg	09 21 59.5	D=29 km, 0.5 s 0.09 u, iSg 22 03, Lm 22 05.
23	e	11 01 12	
23	ei	12 09 17.5	1 s 0.02 u, Lm 09 23.
23	e	14 01 12.	
24	eiSg	09 07 19.3	0.5 s 0.04 u, Lm 07 22.
24	e	10 26 39	
24	e	10 44 06	e 44 12.
24	iPg	12 01 41.3	D=21 km, 0.5 s 0.11 u, iSg 01 43.8, Lm 01 46.
24	ei	12 37 49.3	1 s 0.02 u, Lm 37 53.
25	eiPg	09 00 51.5	D=34 km, 0.7 s 0.04 u, eiSg 00 55.5, Lm 00 57.
25	ei	09 31 44	0.5 s 0.05 u, ei 31 47, Lm 31 49.
26	eiPg	09 00 12.5	D=21 km, iSg 00 15.
26	ei	09 50 35	Lm 50 40.
26	ei	12 09 07	Lm 09 12.
26	eiPg	15 52 53	D=80 km, iSg 53 02.5.
26	ei	18 07 40	1 s 0.02 u, Lm 07 48.
26	ei	19 11 32.	
27	e	01 29 21	e 29 24, Lm 29 33.
27	eiPg	12 41 26	D=43, 1 s 0.12 u, eSg 41 31, Lm 41 35.
28	e	10 24 14	1 s 0.02 u, Lm 24 21.
28	ePg	21 55 42.5	D=39 km, 1 s 0.03 u, eiSg 55 47, Lm 55 54.
29	e	08 22 02	1 s 0.01 u, Lm 22 04.
29	ePg	12 43 43	D=39 km, 1 s 0.1 u, eiSg 43 47.5, Lm 43 52.
29	ei	13 11 12	
30	e	10 24 50	1 s 0.01 u, Lm 24 54.
30	i	12 00 15.5	1 s 0.03 u, Lm 00 19.5.
30	eiPg	12 49 42	1 s 0.03 u, ei 49 45.5, Lm 49 50.
31	eiPg	09 48 34.6	D=29 km, 0.7 s 0.06 u, iSg 48 38.1, Lm 48 40.
31	eiPg	13 44 23.5	D=21 km, 1 s 0.12 u, eiSg 44 25, Lm 44 27.
31	ePg	14 33 05.5	1 s 0.06 u, Lm 33 14.

Date	Phase	h m s	Remarks
1	e	08 59 13	1 s 0.02 u, L 59 16.5.
1	eiPg	09 24 36	D=34 km, 1 s 0.08 u, ei 24 37.5, iSg 24 40.0.
1	iPg	10 59 26.5	D=55 km, 0.7 s 0.1 u, iSg 59 33.0, Lm 59 37.
1	Lm	12 10 34	
1	iSg	12 26 08.5	0.7 s 0.05 u, Lm 26 11.
1	eiPg	14 54 07	D=34 km, 1 s 0.03 u, iSg 54 11, Lm 54 15.
1	iPg	23 36 50.7	iSg 36 57.2.
2	ePg	12 31 25	D=29 km, 0.6 s 0.04 u, eiSg 31 28.5, Lm 31 32.
2	iPg	12 38 30.5	D=13 km, 0.5 s 0.6 u, eiSg 38 31.8, Lm 38 32.8.
2	ePg	13 34 59	D=39 km, 1 s 0.12 u, eiSg 35 03.5, Lm 35 08.
7	ei	05 29 18	1 s 0.04 u, eiSg 29 32.2, Lm 29 40.
7	e	09 13 05	1 s 0.02 u, Lm 13 10.5.
7	e	10 57 30	
7	eiPg	12 33 11	Lm 33 14.
7	ei	13 07 22	eiSg 07 28.7.
8	iPg	09 46 31.5	D=17 km, 0.5 s 0.13 u, iSg 46 33.5, Lm 46 34.
8	iPg	11 06 56	D=19 km, iSg 07 09.5.
8	ei	11 59 34	1 s 0.01 u, Lm 59 41.
8	ei	12 05 11	0.6 s 0.01 u, Lm 05 13.
8	eiSg	16 04 18	1 s 0.01 u, Lm 04 24.
8	eiPg	17 04 44	D=13 km, 0.7 s 0.04 u, eiSg 04 45.5, Lm 04 46.
9	ei	11 00 10	1 s 0.01 u, Lm 00 15.
9	eiPg	12 07 21	D=55 km, 1 s 0.07 u, eiSg 07 27.5, Lm 07 34.
9	iPg	12 20 57,5	D=29 km, 0.5 s 0.15 u, iSg 21 01, Lm 21 03.
9	iPg	16 10 11.4	D=21 km, 0.6 s 0.07 u, iSg 10 13.9, Lm 10 15.5.
10	iPg	12 40 12	D=42 km, 1 s 0.15 u, iSg 40 17, Lm 40 22.
12	iPg	08 43 39.4	D=21 km, 0.5 s 0.11 u, iSg 43 41.9, Lm 43 44.
12	iPg	09 02 09.9	0.6 s 0.03 u, Lm 02 13.
15	eiPg	10 03 49	D=39 km, 1 s 0.06 u, eiSg 03 53.5, Lm 03 58,
15	eiPg	12 40 51	D=55 km, 1 s 0.11 u, eiSg 40 57.5, Lm 41 00.
16	eiPg	08 48 42.5	D=39 km, 0.6 s 0.04 u, eiSg 48 47, Lm 48 51.5.
16	eiPg	09 55 35	D=30 km, 1 s 0.07 u, eiSg 55 38.5, Lm 55 42.
16	eiPg	11 00 22.5	D=69 km, eiSg 00 33.
16	e	12 46 19	1 s 0.04 u, eiSg 46 22.5, Lm 46 25.
16	e	13 25 51	
17	ePg	01 16 36	D=42 km, eSg 16 41.
18	ePg	04 14 03	D=55 km, 0.6 s 0.05 u, iSg 14 09.5, Lm 14 14.
18	ePg	04 53 47	D=51 km, iSg 53 53.1.
19	i	11 19 52.2	1 s 0.04 u, iSg 19 54.7, Lm 20 02.
19	iSg	13 27 49	1 s 0.02 u, Lm 27 53.
20	ei	11 19 39	
20	eiSg	12 39 18	1 s 0.02 u, Lm 39 21.
20	ei	13 46 07	Lm 46 13, 1s 0.01 u.
21	e	10 24 21	1 s 0.01 u, Lm 24 26.

Date	Phase	h m s	Remarks
21	e	12 40 30	1 s 0.03 u, eiSg 40 36.5, Lm 40 39.
21	ei	15 36 30	1 s 0.02 u, Lm 36 37.
22	eiSg	02 55 36.2	1 s 0.02 u, L 55 41, Lm 55 44.
22	eiPg	08 00 36	D=97 km, 1.2 s 0.03 u, eiSg 00 47.5, Lm 00 52.
22	e	12 33 18	1 s 0.03 u, eiSg 33 22.3, Lm 33 25.5.
22	ei	12 37 20	1 s 0.02 u, Lm 37 22.
23	e	09 19 26	1 s 0.03 u, eiSg 19 29, Lm 19 32.
23	e	09 59 36	Lm 59 45.
23	eiPg	10 05 00.7	Lm 05 07.
23	ePg	10 27 05	D=72 km, 1 s 0.07 u, eSg 27 13.5, Lm 27 18.
23	eiPg	12 46 07.5	D=30 km, 1 s 0.07 u, iSg 46 11, Lm 46 14.
24	ei	00 10 35	1 s 0.04 u, iSg 10 37.7, Lm 10 45.
24	eiPg	08 01 58.5	D=98 km, eiSg 02 10, Lm 02 16.
26	ei	13 30 23.3	ei 30 26.5, Lm 30 28.5.
27	eiPg	05 05 08.3	D=63 km, eiSg 55 15.8.
27	ei	11 36 05	
27	ei	14 07 24	1 s 0.02 u, Lm 07 32.
28	Lm	11 08 47	
28	e	11 10 04	Lm 10 12.
28	eiPg	12 00 03.7	D=34 km, 0.5 s 0.06 u, eiSg 00 07.7, Lm 00 10.5.
29	eiPg	12 28 35	D=21 km, 0.5 s 0.12 u, iSg 28 37.5, Lm 28 39.7.
29	ei	12 38 01	0.7 s 0.03 u, Lm 38 04.
29	iSg	16 42 24.7	1 s 0.02 u, Lm 42 32.
30	ePg	12 05 06	D=64 km, 1 s 0.06 u, eSg 05 13.5, Lm 05 16.
30	iPg	12 15 14.5	D=21 km, 0.5 s 0.07 u, iSg 15 17, Lm 15 18.5.
30	eiPg	12 18 15	D=26 km, 0.5 s 0.06 u, iSg 18 16.
30	iPg	12 36 06	D=64 km, 0.5 s 0.06 u, iSg 36 13.5, Lm 36 18.
30	e	12 44 03	Lm 44 08.
30	e	14 26 10	1 s 0.01 u, Lm 26 14.
			October 1966
3	ePg	08 29 57	D=39 km, 1 s 0.04 u, eiSg 30 01.5, Lm 30 06.
3	eiPg	12 42 47.5	D=39 km, 1 s 0.12 u, eiSg 42 52, Lm 42 56.5,
3	e	13 15 38	1 s 0.04 u, eiSg 15 42.5, Lm 15 45, Lm 15 51.
3	eiPg	13 32 28	D=94 km, iSg 32 39.
4	eiSg	02 41 34.5	1 s 0.01 u, Lm 41 42.
4	ei	08 57 32	Lm 57 36, 0.5 s 0.03 u.
4	eiPg	12 33 59	D=34 km, 0.7 s 0.04 u, eiSg 34 03, Lm 34 05.
4	eiPg	13 46 52.5	D=21 km, 0.5 s 0.08 u, eiSg 46 55, Lm 46.
5	ePg	09 18 48	C. D=31 km, 0.5 s 0.24 u, iSg 18 51.5, Lm 18 57.
5	eiPg	12 29 39	D=39 km, 1 s 0.03 u, iSg 29 43.5, Lm 29 48.
6	e	10 00 22	1 s 0.01 u, Lm 00 29.
6	eiSg	10 04 08.5	1 s 0.03 u, Lm 04 17.

Date	Phase	h m s	Remarks
6	e	12 32 29	0.7 s 0.04 u, Lm 04 17.
6	iPh	12 42 32.5	D=39 km, 1 s 0.11 u, eiSg 42 37, Lm 42 42.
6	e	12 53 55	1 s 0.06 u, eiSg 53 59.5, Lm 53 08.
7	eSg	06 04 19	1 s 0.03 u, Lm 04 27.1.
7	eiPg	11 05 45.8	eiSg 05 49.3, Lm 05 53.
7	ePg	11 34 32	1 s 0.01 u, eiSg 34 36, Lm 34 41.
7	ePg	12 28 43	1 s 0.01 u, eiSg 28 47.5, Lm 28 50.
7	ePg	12 28 43	1 s 0.01 u, eiSg 28 47.5, Lm 28 50.
7	ePg	12 40 51	1 s 0.12 u, eiSg 40 55.5, Lm 40 59.
7	eiSg	13 10 52.5	Lm 10 57.
7	e	13 15 15	Lm 15 17.
8	eSg	11 30 58	
10	e	11 11 29	Lm 11 35.
11	e	09 47 41	Lm 47 44.
11	eiSg	11 16 04	Lm 16 06.5.
11	eiPg	13 39 35	eiSg 39 42.5, Lm 39 51.
12	eiPg	01 48 01	1 s 0.03 u, eiSg 48 05.5, Lm 48 07.
12	eiPg	08 24 08	D=20 km, 0.6 s 0.1 u, iSg 24 10.3, Lm 24 12.
12	e	08 54 30	Lm 54 43.5.
12	eiSg	09 06 22.3	0.8 s 0.03 u, Lm 06 25.
12	eSg	09 11 14	
13	eSg	09 37 36	Lm 37 39.5.
13	eiSg	11 42 07	Lm 42 14.
13	eiSg	13 48 08.5	
13	eiPg	20 05 03	
14	e	09 13 27	1 s 0.01 u, Lm 13 13.
14	e	09 48 04	Lm 48 07.
14	ePg	09 57 11	Lm 57 17.
14	e	12 27 18	
15	e	04 58 56	1 s 0.01 u, Lm 58 03.
17	eiPg	09 07 01.5	D=17 km, 0.5 s 0.02 u, eiSg 07 03.5, Lm 07 04.5.
17	eSg	12 42 46	0.5 s 0.06 u.
17	e	14 32 03	Lm 32 11.
17	eiPg	15 38 30.5	D=89 km, eiSg 38 41.
18	eiSg	08 51 51	1 s 0.01 u, Lm 51 58.
18	ei	10 04 47	1 s 0.01 u.
18	eiSg	10 46 47.5	1 s 0.02 u, Lm 46 55.
18	eiPg	12 44 35	D=39 km, 1 s 0.19 u, iSg 44 39.5, Lm 44 44.
19	ePg	09 38 06.8	D=25 km, 0.6 s 0.07 u, eiSg 38 09.8, Lm 38 11.
19	e	12 30 27	
19	e	21 26 09	1 s 0.03 u, Lm 26 17.
20	ei	00 17 07.5	Lm 17 14.
20	iPg	06 45 40	0.5 s 0.15 u, iSg 45 43.5, Lm 45 46.
20	iPg	12 58 38	D=85 km, iSg 58 48.
20	e	14 01 52	1 s 0.04 u, Lm 02 04.
20	eiSg	01 35 15.3	Lm 35 23.

Date	Phase	h m s	Remarks
9	eiPg	09 14 06	D=29 km, 0.5 s 0.1 u, iSg 14 09, Lm 14 12.
9	eiSg	12 33 25	0.6 s 0.04 u, Lm 33 28.
11	iPg	06 58 17.5	
11	iPg	11 47 27.5	C. D=21 km, iSg 47 30.
11	e	12 40 55	1 s 0.1 u, e 41 00, Lm 41 03.
12	ePg	12 38 22	D=39 km, 1 s 0.12 u, eiSg 38 26.5, Lm 38 31.
14	e	05 23 29	1 s 0.03 u, ei 23 31.5, ei 23 36, Lm 23 41.
14	e	10 25 02.5	1 s 0.04 u, Lm 25 11.
14	eiSg	10 43 16.5	1 s 0.02 u, Lm 43 24.
14	eiPg	12 42 41.5	D=39 km, 1 s 0.16 u, eiSg 42 46, Lm 42 51.
15	iPg	12 49 49.5	D=29 km, iSg 49 53.
16	e	11 54 42	Lm 54 47.
16	ePg	13 26 57	D=39 km, 1 s 0.03 u, eiSg 27 01.5, Lm 27 05.
16	e	21 18 12	1 s 0.03 u, iSg 18 16.5, Lm 18 24.
16	iPg	22 30 11.5	D=55 km, iSg 30 16.
17	e	12 04 34	1 s 0.05 u, eiSg 04 45, Lm 04 48.
18	ePg	09 00 17	D=60 km, 1 s 0.02 u, eSg 00 24, Lm 00 30.
18	iPg	10 57 21.5	D=29 km, 1 s 0.09 u, iSg 57 25, Lm 57 27.
18	ePg	22 30 11.8	D=60 km, iSg 30 18.8.
21	eiSg	19 45 13	1 s 0.02 u, Lm 45 20.
21	ePg	22 30 12.5	D=55 km, eiSg 30 19.
22	eSg	00 46 45	1 s 0.02 u, Lm 46 52.
22	eiPg	13 36 43	D=27 km, 0.5 s 0.09 u, iSg 36 46, Lm 36 47.
22	e	13 42 20	1 s 0.01 u, e 42 31, Lm 42 33.
22	iPg	13 47 22.7	D=19 km, eiSg 47 25.
23	eiSg	08 59 47.8	0.7 s 0.03 u, Lm 59 51.
23	eiPg	16 10 49.5	D=55 km, eiSg 10 56.
23	eiSg	16 50 24	1 s 0.02 u, Lm 50 31.
24	eiPg	08 43 48.5	C. D=21 km, 0.6 s 0.15 u, eiSg 43 51, Lm 43 53.
24	e	10 52 25	Lm 52 32, 1 s 0.01 u.
24	ei	10 59 06	1 s 0.02 u, Lm 59 10.5.
24	e	12 25 56.5	eiSg 25 59.
24	e	19 52 15	Lm 32 24.
25	ePg	08 28 40	D=60 km, 1 s 0.02 u, eiSg 28 47, Lm 28 53.
25	ei	11 09 36.5	1 s 0.01 u, Lm 09 41.
25	iPg	12 01 20.4	D=17 km, 0.5 s 0.35 u, iSg 01 22.4, Lm 01 24.5.
25	ei	13 21 30	1 s 0.02 u. Lm 21 33.5.
25	e	15 01 20	1 s 0.03 u, Lm 01 27.
25	ei	16 20 03.5	1 s 0.04 u, iSg 20 05.9, Lm 20 13.
25	ei	23 11 17	1 s 0.01 u, Lm 11 24.
26	e	05 01 33	Lm 01 38.
26	ePg	12 39 29	D=34 km, 1 s 0.07 u, ei 39 31.5, eiSg 39 33, Lm 39.
26	e	23 44 47	1 s 0.01 u, Lm 44 55.
27	eb	22 12 53	Lm 12 59.

Date	Phase	h m s	Remarks
21	ePg	09 00 07.8	D=34 km, 0.7 s 0.03 u, eiSg 00 11.8, Lm 00 15.
21	e	11 39 13	1 s 0.02 u, Lm 39 19.
21	iPg	12 30 34.8	D=13 km, 0.5 s 0.38 u, iSg 30 36.3, Lm 30 39.5.
21	ei	12 38 12	1 s 0.04 u, Lm 38 16.
21	e	22 50 10	1 s 0.01 u, ei 50 12.7, Lm 50 20.
22	iPg	06 30 20.3	D=30 km, 0.5 s 0.15 u, iSg 30 23.8, Lm 30 26.
23	ei	18 42 24	1 s 0.01 u, Lm 42 31.
24	iPg	07 15 03	D=25 km, 0.6 s 0.18 u, iSg 15 11, Lm 15 13.
24	eiSg	07 35 52.2	
24	e	09 06 24	1 s 0.02 u, Lm 06 29.
24	iPg	12 12 12	D=25 km, 0.5 s 0.13 u, iSg 12 15, Lm 12 18.
24	e	12 46 30	1 s 0.07 u, eSg 46 35, Lm 46 39.
26	iPg	06 58 57	D=29 km, 0.5 s 0.21 u, iSg 50 00.5, Lm 59 03.
27	iPg	10 45 18	D=34 km, 1 s 0.06 u, iSg 45 22, Lm 45 25.
27	e	12 46 36	1 s 0.04 u, eiSg 46 40.5, Lm 46 45.
27	eiSg	14 32 18	1 s 0.03 u, Lm 32 24.5.
28	ei	13 48 22	Lm 48 25.
28	e	16 10 05	Lm 10 09.
28	eiSg	18 05 06.5	Lm 05 14.
28	e	20 41 22	1 s 0.01 u, Lm 41 31.
31	i	12 35 51	Lm 35 53.
31	eiPg	12 41 11.5	D=39 km, 1 s 0.1 u, iSg 41 16, Lm 41 20.
			November 1966
1	e	12 30 50	0.5s 0.03 u, Lm 30 54.
1	e	12 59 04	1 s 0.01 u, Lm 59 12.
2	eiPg	09 28 34	0.7 s 0.04 u, eiSg 28 41, Lm 28 46.
2	iPg	10 05 48	D=29 km, 0.5 s 0.07 u, iSg 05 51.5, Lm 05 54.
2	iPg	12 09 01	D=13 km, 0.5 s 0.14 u, iSg 09 02.5, Lm 09 03.
2	ei	22 03 36.5	1 s 0.02 u, eL 03 40, Lm 03 44.
3	iPg	07 13 15.6	D=21 km, 0.5 s 0.26 u, iSg 13 18.1, Lm 13 22.
3	ei	11 02 13	1 s 0.01 u, Lm 02 19.
3	eo	12 38 00	Lm 38 03.
3	eiPg	12 38 34.5	D=39 km, 1 s 0.06 u, iSg 38 39, Lm 38 43.
3	iPg	13 56 34.5	D=21 km, 1 s 0.29 u, iSg 56 37, Lm 56 39.
5	ei	10 47 50	1 s 0.01 u, Lm 47 55.
5	e	15 40 50	1 s 0.01 u, Lm 41 05.
6	ei	02 20 17	1 s 0.01 u, Lm 20 24.
8	eiPg	09 01 01.5	D=13 km, 0.6 s 0.03 u, eiSg 01 03, Lm 01 04.5.
8	ePg	09 15 44	D=55 km, 0.5 s 0.03 u, eiSg 15 50.5, Lm 15 53.
8	ei	10 51 28.5	1 s 0.01 u, Lm 51 32.
8	e	12 33 22	eiSg 33 26.

Date	Phase	h m s	Remarks
28	iPg	16 46 25.5	D=3° km, 1 s 0.2 u, ei 46 37.5, eiSg 46 40, Lm 47.5.
29	ei	12 59 32.5	1 s 0.02 u, Lm 59 38.
			December 1966
1	e	11 00 49	1 s 0.01 u, Lm 00 55.
1	ePg	15 41 54.5	D=34 km, 1 s 0.03 u, eiSg 41 58.5, Lm 42 02.5.
2	eiPg	10 30 21	D=39 km, 0.7 s 0.04 u, eiSg 30 25.5, Lm 30 30.
2	iPg	12 32 22	1.5 s 0.03 u, ei 32 23.5, Lm 32 24.7.
2	e	12 42 16	1 s 0.06 u, Lm 49 19.
2	ei	17 20 04	Lm 20 12.
3	e	00 43 03	Lm 43 08.
3	ei	03 14 48.5	Lm 14 55.
3	iP	10 42 50	D=34 km, 1 s 0.03 u, iSg 42 54, Lm 42 57.
3	eiSg	23 17 49	1 s 0.02 u, Lm 27 56.
4	ei	03 10 48	Lm 10 55.
5	iPg	12 31 41.5	D=17 km, 0.5 s 0.14 u, iSg 31 43.5, Lm 31 45.5.
5	iPg	12 39 45.5	D=30 km, 0.5 s 0.08 u, iSg 39 49, Lm 39 51.
6	ePg	11 55 03	Lm 55 10.
6	ePg	12 41 57	D=39 km, 1 s 0.15 u, eSg 42 01.5, Lm 42 05.
8	e	09 24 50	eiSg 24 55.5.
8	eSg	09 54 52	
8	ePg	12 39 03	1s 0.04 u, ei 39 07, Lm 39 13.
9	ePg	08 04 51	D=32 km, eiSg 04 54.3.
9	e	08 51 00	eiSg 51 07, Lm 51 11.
9	e	12 06 42	eiSg 06 47.8.
9	e	12 34 56	eiSg 35 02.
11	e	10 08 13.5	eiSg 08 16.3.
12	eiSg	10 03 33.5	0.8 s 0.03 u, Lm 03 36.
13	e	12 51 03	
13	ePg	13 22 02.8	D=30 km, eiSg 22 06.4.
13	e	15 29 03	eSg 29 13.5, Lm 29 19.
14	e	12 31 18	eiSg 31 20.4.
14	eSg	12 36 47	
14	e	12 39 03	1 s 0.09 u, eiSg 39 05, Lm 39 09.
15	ePg	12 41 07	D=24 km, eiSg 41 10, Lm 41 12.
15	e	13 20 19	eiSg 20 22.
16	e	09 22 51.5	eiSg 23 00.7.
16	e	10 01 15	
16	eSg	10 39 22	
16	ePg	11 33 02	
16	e	12 22 03.5	Lm 22 08.

Date	Phase	h m s	Remarks
18	e	12 38 40	D=44 km, 1 s 0.1 u, eiSg 38 45, Lm 38 49.
19	eiPg	12 37 42	D=42 km, eiSg 37 47.
19	e	13 51 06	eiSg 51 20.
19	e	23 30 02	eiSg 30 05.
20	e	01 41 32	
22	eiPg	09 17 53.5	D=34 km, eiSg 17 57.5.
22	eiPg	11 52 37	D=55 km, 0.8 s 0.06 u, eiSg 52 44, Lm 52 46.
22	eiPg	15 07 39.5.	
24	e	14 28 51	1 s 0.03 u, ei 28 57, Lm 29 05.
27	eiSg	12 41 14.5	1 s 0.07 u, Lm 41 18.
28	eiPg	12 30 10	D=40 km, 1 s 0.07 u, eiSg 39 14.5, Lm 39 20.
29	eiSg	10 06 37.5	
29	eiSg	12 07 21	1 s 0.02 u, Lm 07 25.
29	e	12 29 40	Lm 29 46, 0.6 s 0.03 u.
30	iPg	10 53 18.5	D=17 km, iSg 53 20.5.
30	e	12 26 04	1 s 0.02 u, Lm 26 13.

Seismic observations of the station PRAHA

July - December 1966

J.Janský

Instruments:

I = Seismograph Wiechert, mass 1000 kg, air damping, components N, E, mechanic registration.

II = Seismograph Kirnos, components N, E, Z, galvanometric registration.

Station coordinates: φ = 50°04′13" N, λ = 14°25′59"E.
Elevation: h = 225m.
Lithologic foundation: ordovicien (Zahořany layers).

Instrument I

Component	NS			EW		
	T_o	V_o	: 1	T_o	V_o	: 1
July	9.1	217	3.9	9.1	172	3.3
August	9.4	204	3.9	9.2	152	4.0
September	9.4	159	5.3	9.3	151	5.2
October	9.1	192	4.6	9.0	181	5.6
November	8.7	240	3.9	9.0	181	3.9
December	9.7	194	4.3	9.9	146	4.5

Instrument II — July - December 1966

Component	T_1	T_2	D_1	D_2	σ^2	V
NS	12.2	1.23	0.430	4.77	0.0144	610
EW	12.4	1.20	0.430	4.95	0.0107	560
Z	13.0	1.14	0.455	4.50	0.180	530

Date	Phase	h m s	Remarks
4	ePKP1	07 41 10	South of Fiji. Dc=150.2°.
4	eP	12 21 41	Azores region. MLH=5.7 Praha. Dc=30.7°.
	e	21 52	LmH: 10s 8.3 μ, LmV: 10s 1.3 μ.
	eS	26 42	
	Lm	40	
4	eP	18 45 35	Aleutian Islands. MLH=6.9 Praha. Dc=77.6°.
	ePP	48 52	LmH: 15s 48 μ, LmV: 16s 43 μ.
	e	49 12	
	e(S)	55 35	
	Lm	29	
5	ePcP	02 33 49	Aleutian Islands. MLH=5.8 Praha. Dc=77.6°.
	e	36 36	LmH: 17s 3.6 μ.
	Lm	03 14	
5	ePKP	03 41 51	Tonga Islands. Dc=144.5°.
5	eP	05 15 17	Azores region. Dc=30.6°.
6	e	04 29 22	Southern Italy. Dc=9.1°.
	Lm	30.8	
6	Lm	14 25	China. MLH=5.7 Praha. Dc=45.8°. LmH: 10s 4.3 μ, LmV: 12s 0.7 μ.
6	eP	20 34 16	Ryukyu Islands. Dc=84.1°.
7	ePKP1	23 41 49	Tonga Islands. Dc=147.6°.
9	e	10 08 42	Yugoslavia. Dc=7.5°.
9	ePKP1	14 33 26	West of Tonga. Dc=148.5°.
10	ePKP1	01 40 44	West of Tonga. Dc=145.8°.
10	ePKIKP	10 20 32	Kermadec Islands. Dc=158.5°.
	ePKP2	21 07	
10	e(Sn)	13 31 54	Austria. Dc=3.6°.
	e(Sg)	32 12	
10	iP	16 25 12.0	C. Ryukyu Islands. MPV=6.7, MLH=6.7 Praha. Dc=84.0°. PV: 4s 2.3 μ, LmH: 12s 19 μ, LmV: 14s 11 μ.
	e	25 26	
	eS	35 32	
	Lm	17 07	
10	eP	22 16 47	Ryukyu Islands. Dc=83.5°.
11	ePKP1	23 05 42	Tonga Islands. Dc=148.7°.
	ePKS	09	
	Lm	00 12	
12	e	00 09 34	Turkey. Dc=21.9°.
	Lm	18.5	

Date	Phase	h m s	Remarks
12	eP	03 00 04	Mediterranean Sea. MLH=5.1 Praha. Dc=15.6°.
	ePP	00 19	LmH: 10s 6.5/μ, LmV: 11s 1.0/μ.
	ePPP	00 32	
	eS	02 55	
	Lm	07.0	
12	ePKP	17 56 54	Loyalty Islands. Dc=145.9°.
12	iP	18 56 56.6	D.E. Western Caucasus. MLH=5.4 Praha. Dc=16.3°.
	i	57 03.4	PV: 3s 2.4/μ, PH: 3s 2.5/μ, SH: 5s 2.3/μ,
	i	57 35.8	LmH: 11s 11/μ, LmV: 9s 5.4/μ.
	eS	19 00 10	
	Lm	04.5	
12	ePKP	21 59 50	Tonga Islands. Dc=149.8°.
14	eP	06 31 04	Japan. Dc=82.5°.
	esP	31 20	
14	eP	12 29 48	Gulf of Alaska. Dc=73.4°.
14	i	15 56 08.6	Poland. Dc=2.5°.
	i(Sg)	56 14.6	
15	eP	08 11 05	Leeward Islands. Dc=68.2°.
15	Lm	13 57 53	Explosion of 20 tons. Dc=75 km
15	Lm	23 58	Greece.
16	Lm	20 08	Kirgizia-Sinkiang border. Dc=41.8°.
17	iPKP	02 43 40.3	C. Loyalty Islands region. Dc=145.5°. PV: 2s 0.5/μ.
18	eP	02 04 33	Carsberg ridge. Dc=55.4°.
18	eP	10 08 10	Arabian Sea. Dc=50.8°.
19	eP	01 52 14	Komandorsky Islands. MLH=6.6 Praha. Dc=71.3°.
	e	52 51	LmH: 13s 25/μ, LmV: 14s 4.5/μ.
	eS	02 01 32	
	e	01 49	
	Lm	27	
19	eP	19 32 30	Aleutian Islands. Dc=78.4°.
	e	32 44	
	Lm	20 13	
20	Lm	10 24	Greece. Dc=12.2°.
21	eP	04 05 37	Eastern Kazakhstan. Dc=39.9°.
21	ePKP	18 48 50	West of Tonga. Dc=146.2°.
	e	51 28	

Date	Phase	h m s	Remarks
22	Lm	04 09	China. MLH=5.4 Praha. Dc=47.1°. LmH: 11s 2.5/μ, LmV: 11s 1.4/μ.
22	ePP	08 48 04	New Hebrides. Dc=139.8°.
22	i(Sg)	10 22 50.2	Explosion of 7 tons. Dc=13 km.
22	eP	10 29 20	Aleutian Islands. MLH=5.6 Praha. Dc=78.5°.
	i	29 20.8	LmH: 18s 2.8/μ, LmV: 17s 2.3/μ.
	ePcP	29 34	
	eSKS	39 31	
	Lm	11 15	
23	e	10 00 44	Explosion of 4.6 tons. Dc=60 km.
23	iP	14 43 47.9	C. Aleutian Islands. Dc=78.5°.
	e	44 03	
	Lm	15 29	
24	ePKP	09 11 50	Samoa Islands. Dc=145.8°.
	e	12 19	
	e	12 43	
24	iPKP1	17 37 54.5	Tonga Islands. Dc=149.5°.
	epPKP2	38 35	
26	ePKP1	22 59 37	Kermadec Islands. Dc=155.7°.
	ePKP2	59 52	
27	Lm	05 52	Chile. Dc=105.1°.
27	eP	14 55 16	Western Persia. MLH=4.6 Praha. Dc=30.7°.
	e	56 07	LmH: 11.5s 0.8/μ, LmV: 11s 0.4/μ.
	Lm	15 10	
28	e	02 02 37	Yugoslavia. Dc=7.2°.
28	ePKP2	12 28 13	Kermadec Islands. Dc=157.5°.
31	ePKP	12 09 05	New Hebrides. Dc=145.5°.

Date	Phase	h m s	Remarks
1	eP	22 39 12	West Pakistan. Dc=45.1°.
5	e	17 51 36	Yugoslavia. Dc=8.4°.
	Lm	53 15	
6	e	02 33 11	Yugoslavia. Dc=8.4°.
	Lm	35 50	
6	eP	05 54 03	Yugoslavia. Dc=8.3°.
	e	55 24	
	eS	55 27	
	Lm	56 30	
6	eP	19 45 19	Kurile Islands. Dc=78.1°.
7	iP	02 25 10.6	D.N. Aleutian Islands. MPV=7.3, MSH=7.0, MLH=6.6 Praha. Dc=79.7°. PV: 5s 9.5/u, SH: 11s 15/u, LmH: 20s 28/u, LmV: 21s 23/u.
	e	25 21	
	ePP	28 14	
	ePPP	30 10	
	eS	35 12	
	Lm	03 05	
7	eP	14 23 07	Gulf of Alaska. MLH=5.3 Praha. Dc=69.5°. LmH: 10s 1.0/u, LmV: 10s 0.9/u.
	Lm	40.5	
7	eP	17 49 14	Gulf of California. MLH=6.6 Praha. Dc=87.0°. LmH: 12s 15/u, LmV: 14s 9.4/u.
	eS	59 52	
	Lm	18 32	
8	eSKS	08 26 42	Revilla Gigedo Islands. MLH=5.8 Praha. Dc=95.4°. LmH: 13s 2.1/u, LmV: 14s 1.5/u.
	Lm	09 00.5	
9	e	01 09 32	Yugoslavia. Dc=8.4°.
9	e	03 39 16	Albania. MLH=4.4 Praha. Dc=10.5°. LmH: 11s 3.3/u.
	Lm	42	
10	iPKP1	05 20 48.5	D. Tonga. Dc=149.3°.
	e	21 36	
10	ePg	12 00 40	Explosion of 21.9 tons. Dc=63 km.
	eSg	00 50	
	Lm	01 06	
10	Lm	13 48	New Britain. Dc=123.0°.
10	Lm	15 32.5	Southern Greece. MLH=4.4 Praha. Dc=14.7°. LmH: 9s 1.2/u, LmV: 9s 0.9/u.
11	e	04 39 21	Greece. MLH=4.8 Praha. Dc=12.4°. LmH: 11s 6.5/u, LmV: 10s 1.2/u.
	Lm	42 00	
11	ePKP1	05 32 29	Tonga. MLH=5.9 Praha. Dc=148.2°. LmV: 19s 2.4/u, LmV: 21s 1.8/u.
	e	32 41	
	Lm	06 38	

Date	Phase	h m s	Remarks
11	ePKIKP	23 45 24	Tonga. MLH=5.9 Praha. Dc=152.2°. LmH: 20s 3.0/u,
	ePKP1	45 32	LmV: 18s 1.8/u.
	Lm	01 03	
12	eP	19 34 11	Japan. Dc=82.3°.
12	eP	20 28 56	South of Alaska. Dc=77.7°.
	e	29 35	
13	e	07 04 02	
14	ePKP	05 10 41	Loyalty Islands. Dc=145.9°.
14	ePKP	10 22 26	Loyalty Islands. Dc=146.3°.
15	eP	02 24 43	Northern India. Dc=52.4°.
	e	25 15	
15	eP	02 58 38	Philippine Islands. MLH=6.0 Praha. Dc=90.5°.
	e	59 10	LmH: 13s 5.2/u, LmV: 13s 2.6/u.
	ePP	03 02 18	
	ePPP	04 17	
	eS	09 39	
	ePS	10 40	
	Lm	47	
15	eP	10 31 02	Carlsberg Ridge. MLH=5.7 Praha. Dc=62.1°.
	ePP	33 23	LmH: 10s 1.8/u.
	Lm	48	
15	eP	13 47 30	Southern Alaska. Dc=68.9°.
	e	48 26	
	ePP	50 03	
	Lm	14 20	
16	iP	02 23 55.5	C.S.W. Hindu Kush. MPV=6.3 Praha. Dc=42.2°.
	epP	24 38	PV: 1.5s 1.6/u.
	esP	25 01	
	epPP	26 15	
	esPP	26 39	
	eScP	29 16	
16	eP	03 56 14	Albania. MLH=4.2 Praha. Dc=10.5°. LmH: 10s
	e	59 43	1.9/u, LmV: 10s 2.2/u.
	Lm	04 01.5	
16	ePKP	05 14 05	Loyalty Islands. Dc=146.0°.
16	eS	18 25 10	Southern Nevada. MLH=5.7 Praha. Dc=81.9°.
	Lm	53	LmH: 15s 2.9/u, LmV: 15s 3.0/u.
16	ePKP	20 05 20	Loyalty Islands. MLH=5.8 Praha. Dc=146.1°.
	Lm	21 20	LmH: 17s 2.1/u, LmV: 16s 1.5/u.

Date	Phase	h m s	Remarks
19	eiP	12 27 05.2	Turkey. MSH=7.1, MLH=6.8 Praha. Dc=22.0°.
	ePP	27 22	SH: 15s 230/μ, LmH: 14s 270/μ.
	ePPP	27 38	
	eS	31 05	
	eSSS	32 00	
	Lm	37.5	
19	eP	13 59 24	Turkey. Dc=22.0°.
19	eP	14 22 46	Turkey. Dc=22.0°.
20	eP	09 44 04	Japan. MLH=5.7 Praha. Dc=76.1°. LmH: 12s 0.8/μ,
	ePcP	44 08	LmV: 14s 0.9/μ.
	epP	44 42	
	ePP	46 37	
	eS	53 34	
	Lm	10 22	
20	iP	12 04 00.1	D. Turkey. MPV=6.0, MLH=6.3 Praha. Dc=21.4°.
	ePP	04 29	PV: 3.5s 2.2/μ, LmH: 11s 76/μ, LmV: 12s 38/μ.
	ePPP	04 50	
	eS	08 11	
	eSS	09 00	
	eSSS	09 18	
	Lm	15.3	
20	eP	19 10 26	Yugoslavia. Dc=8.4°.
	e	11 14	
	e	12 08	
20	ePKP	23 14 49	South of Fiji. Dc=152.4°. LmH: 19s 4.0/μ,
	e	18 34	LmV: 18s 3.5/μ.
	Lm	00 32	
21	eP	01 33 55	Turkey. MLE=5.1 Praha. Dc=13.2°. LmE: 10s 9.5/μ.
	Lm	42	
21	iP	05 13 53.8	Philippine Islands. Dc=97.4°.
22	epP	14 33 48	Sea of Okhotsk. Dc=72.4°.
22	iPKP	18 01 49.0	Loyalty Islands. MLH=6.3 Praha. Dc=146.7°.
	epPKP	02 02	LmH: 19s 6.8/μ, LmV: 20s 6.7/μ.
	e	02 59	
	Lm	19 05	
23	ePKP	00 13 15	Loyalty Islands. Dc=146.7°.
23	eP	18 34 42	Ryukyu Islands. Dc=83.3°.
23	ePKP	22 54 39	Tonga. Dc=145.8°.
24	e	20 51 23	France. Dc=8.0°.
26	ePKP	01 11 39	Kermadec Islands. Dc=156.2°.

Date	Phase	h m s	Remarks
26	e	06 07 35	Portugal. Dc=20.3°.
26	ePKP1	09 26 31	Loyalty Islands. Dc=146.1°.
	ePKP2	26 35	
	e	27 02	
	Lm	10 30	
26	ePKP1	13 47 53	Loyalty Islands. Dc=146.0°.
28	e(Pn)	04 20 17	Yugoslavia. Dc=8.4°.
	e	21 44	
	eL	22 38	
28	ePKIKP	10 21 03	Solomon Islands. Dc=124.0°.
28	epP	10 51 20	Hindu Kush region. Dc=42.2°.
	esP	52 29	
28	e	12 46 10	Yugoslavia. Dc=7.9°.
28	Lm	16 26	Japan. MLH=5.6 Praha. Dc=80.5°. LmH: 13s 1.7/μ, LmV: 12s 0.4/μ.
30	Lm	06 44.5	Lake Baikal. MLH=5.6 Praha. Dc=53.3°. LmH: 11s 3.2/μ, LmV: 11s 0.9/μ.
30	epP	12 53 37	Philippine Islands. Dc=90.0°.
30	eP	20 31 52	Southern Alaska. MLH=5.2 Praha. Dc=68.1°.
	ePcP	32 01	LmH: 12s 0.8/μ.
	ePP	34 25	
	e	35 31	
	ePPP	36 02	
	eS	40 53	
	e	43 30	
	Lm	21 18	
31	eP	18 20 43	Jan Mayen. MSH=5.2, MLH=4.7 Praha. Dc=23.1°.
	e	21 07	SH: 10s 1.3/μ, LmH: 12s 1.7/μ, LmV: 12s 0.7/μ.
	eS	24 57	
	Lm	30	

Date	Phase	h m s	Remarks
1	eP	01 43 37	Jan Mayen. MLH=4.6 Praha. Dc=23.0°.
	e	44 04	LmH: 10s 1.1/μ, LmV: 10s 0.5/μ.
	Lm	55	
1	e	09 16 58	Explosion.
	eL	17 00	
1	Lm	12 44	Greece. MLH=4.3 Praha. Dc=13.3°.
			LmH: 10s 1.4/μ, LmV: 8s 0.4/μ.
1	eP	14 26 14	Greece. MLH=5.7 Praha. D=12°, Dc=13.8°.
	eiPP	26 31.0	LmH: 12s 44/μ, LmV: 11s 23/μ.
	ePPP	26 40	
	e	27 16	
	e	27 40	
	eS	28 42	
	eSSS	29 08	
	e	29 36	
	Lm	32 30	
1	eP	19 23 06	Jan Mayen. MLH=4.6 Praha. Dc=23.0°.
	e	23 18	LmH: 12s 1.4/μ, LmV: 10s 0.4/μ.
	e	23 47	
	eS	27 30	
	Lm	34	
1	eSg	23 19 55	Italy. Dc=5.5°.
	e	20 07	
5	ePKP	00 27 41	West of Tonga. Dc=150.4°.
6	ePn	12 41 15	Yugoslavia. Dc=8.5°.
	e	43 05	
	e	44 08	
8	eP	12 19 19	South Atlantic Ridge. Dc=75.7°.
8	iP	21 29 43.7	C. Halmahera. MLH=6.9 Praha. Dc=103.3°, PV: 4s
	epP	30 05	2.5/μ, LmH: 22s 38/μ, LmV: 21s 25.8/μ.
	esP	30 18	
	ei	33 17	
	ePP	34 02	
	ePPP	36 12	
	eSKS	40 20	
	eSKS2	41 05	
	eS	41 22	
	eSP	42 58	
	eSSS	52 40	
	Lm	22 19	
9	eP	20 50 36	Eastern Gulf of Aden. Dc=46.8°.
10	Lm	10 25 30	Turkey. MLE=4.4 Praha. Dc=21.9°. LmE: 12s 1.1/μ.
11	eP	17 50 13	Northern Colombia. Dc=83.2°.
	e	50 18	
	e	52 31	

Date	Phase	h m s	Remarks
12	eiPKP	11 49 20.0	Loyalty Islands Region. MLH=6.3 Praha.
	e	50 13	Dc=147.2°, PV: 8s 20/μ, LmH: 17s 6.0/μ,
	e	50 26	LmV: 20s 4.1/μ.
	ePKS	52 50	
	Lm	13 15	
12	eP	16 53 27	California. MLH=6.2 Praha. Dc=82.4°. LmH: 14s
	Lm	17 31	7.7/μ, LmV: 16s 4.2/μ.
13	ePKP	01 10 26	Loyalty Islands Region. Dc=147.3°.
13	eL	13 01 13	Czechoslovakia-Poland border. Dc=2.9°.
14	ePKP	23 37 26	Sandwich Islands Region. MLH=6.8 Praha.
	ePP	38 19	Dc=115.1°. LmH: 16s 19.2/μ, LmV: 16s 24/μ.
	ePPP	40 43	
	eSKS	44 08	
	e	46 27	
	eSKSP	48 07	
	Lm	00 27 30	
15	eSg	00 12 35	Austria. Dc=3.9°.
15	ePKP	04 27 08	Tonga Region. Dc=152.6°.
15	Lm	13 00	Sandwich Islands Region. MLH=6.2 Praha.
			Dc=115°. LmH: 15s 4.6/μ, LmV: 16s 4.2/μ.
15	eP	17 23 15	Taiwan Region. MLH=6. Praha. Dc=83.0°.
	esP	23 29	LmH: 13s 11.6/μ, LmV: 15s 5.3/μ.
	ePP	26 23	
	eScS	33 36	
	Lm	18 05	
16	ePKP	13 31 36	Loyalty Islands Region. Dc=147.1°.
17	ePKP	21 24 51	West of Tonga. Dc=149.6°.
	ePKP2	24 56	
18	Lm	14 57	China. MLH=5.3 Praha. Dc=71.5°. LmH: 16s 1.3/μ.
18	iP	20 51 08.4	C. Southern Persia. MPH=6.6, MLH=5.3 Praha.
	ePP	52 34	Dc=37.5°. PH: 2s 0.8/μ, LmH: 13s 3.5/μ,
	ePcS	57 20	LmV: 12s 1.5/μ.
	Lm	21 10	
19	ePKP	07 20 57	West of Tonga. Dc=149.1°.
22	ePKP	21 54 54	Tonga Region. Dc=146.7°.
	e	55 17	
23	eiP	01 41 46.0	C. Kurile Islands Region. MLH=5.7 Praha.
	Lm	02 20	Dc=78.2°. LmH: 15s 3.4/μ, LmV: 16s 1.5/μ.

Date	Phase	h m s	Remarks
24	eP	10 08 11	Southern Persia. MLH=5.1 Praha. Dc=38.0°.
	e	09 37	LmH: 13s 1.8/µ.
	ePcS	14 05	
	Qm	26	
	Rm	35	
25	eP	06 15 27	Mexico. Dc=91.2°.
25	ePKP	08 56 01	Loyalty Islands Region. Dc=146.8°.
26	eiP	05 21 17.7	C. India-China Border Region. MLH=6.0 Praha.
	ei	21 25.2	Dc=62.1°. LmH: 11s 5.8/µ, LmV: 11s 1.9/µ.
	ePP	23 43	
	ePPS	30 15	
	Lm	51 30	
28	eP	14 11 14	China. MSH=6.5, MLH=6.3 Praha. Dc=66.7°.
	eaP	11 22	SH: 10s 4.5/µ, LmH: 11s 10/µ.
	ePP	13 49	
	ePPP	15 23	
	eS	20 08	
	Lm	41 30	
29	eiPKP	03 03 39.5	West of Tonga. Dc=148.9°.
	epPKP	04 43	
30	e	10 23 11	Explosion of 9.6 tons. Dc=98 km.
	e	23 21	

Date	Phase	h m s	Remarks
1	ePg	11 34 35	Explosion of 18.3 tons. Dc=63 km.
		34 43	
		34 50.3	
2	Lm	08 22	Aleutian Islands. MLH=5.3 Praha. Dc=78.5°.
			LmH: 11s 1.9/µ.
2	iPn	11 23 55.6	D.E.S. Romania. Dc=9.2°.
	e	24 24	
	eSn	25 46	
	Lm	26 32	
5	eP	08 43 52	Congo. MLE=5.1 Praha. Dc=51.6°. LmE: 11s 1.1/µ.
	Lm	09 15	
7	eiPKP	16 14 27	C.S.W. Loyalty Islands Region. MLH=6.5 Praha.
	eiPP	17 54	Dc=145.9°. LmH: 11s 4.6/µ.
	ePPP	21 06	
	eSKKS	24 36	
	e	31 50	
	Lm	17 08	
7	eP	21 06 30	Alaska. Dc=68.1°.
8	eiPKP	00 31 50	West of Tonga. Dc=145.2°.
8	ePKP	02 53 47	West of Tonga. Dc=145.2°.
8	ePKP	15 02 41	Fiji Region. Dc=144.3°.
9	ePKP	02 25 06	West of Tonga. Dc=146.3°.
9	eP	06 56 14	Sudan. MLH=5.8 Praha. Dc=39.7°. LmH: 12s 8.2/µ,
	eS	07 02 16	LmV: 12s 3.4/µ.
	Lm	18	
11	ePP	06 45 29	Sandwich Islands Region. MLH=5.8 Praha. Dc=114.7°.
	e	47 52	LmH: 14s 1.8/µ, LmV: 16s 1.7/µ.
	Lm	07 33	
12	ePS	00 35 08	Timor. Dc=110.1°.
	Lm	01 02	
13	Lm	19 36 30	Aleutian Islands. MLH=5.7 Praha. Dc=77.6°.
			LmH: 12s 2.2/µ, LmV: 14s 1.5/µ.
14	eP	01 14 05	China. MLH=6.0 Praha. Dc=52.8°. LmH: 10s 7.2/µ,
	ePP	16 09	LmV: 9s 2.1/µ.
	Lm	34 30	
	Lm	40 24	
15	eiP	07 01 29.8	D.E.Romania. MLH=4.0 Praha. Dc=9.2°.
	e	01 52	LmH: 10s 1.3/µ, LmV: 6s 1.2/µ.
	e	02 07	
	e	02 14	
	e	02 57	
	eS	03 14	
	Lm	05 48	

Date	Phase	h m s	Remarks
16	e	09 34 55	Japan.
	Lm	58 30	
17	ePP	10 37 41	Santa Cruz Islands. Dc=134.8°.
	Lm	11 38	
17	ePKP	18 38 49	Fiji. Dc=149.8°.
17	eiP	21 55 41.0	C. Peru. MLH=7.8 Praha. Dc=100.1°.
	e	59 25	LmH: 16s 238 μ, LmV: 19s 218 μ.
	e	22 01 35	
	e	06 50	
	e	08 29	
	Rm	25	
	Rm	39	
19	eiP	08 11 21.2	Ascension Island. MLH=7.4 Praha. Dc=57.4°.
	esP	11 37	LmH: 13s 200 μ, LmV: 16s 88 μ.
	e	12 38	
	ePP	13 22	
	ePPP	14 53	
	eSP	19 29	
	Lm	36	
19	Lm	20 26	Kamchatka. MLH=5.4 Praha. Dc=74.8°. LmH: 14s 1.5 μ, LmV: 15s 1.6 μ.
20	Lm	01 25	Kashmir. MLH=5.4 Praha. Dc=49.0°. LmE: 11s 2.4 μ.
20	e	05 02 02	Yugoslavia.
	e	02 35	
20	e	09 41 44	Italy. Dc=6.1°.
21	e	16 23 49	Greece. Dc=11.7°.
22	eP	12 58 36	Kamchatka. Dc=71.7°.
	epP	58 52	
23	eP	07 21 04	Kamchatka. MLH=6.0 Praha. Dc=74.8°.
	Lm	59	LmH: 15s 5.9 μ.
23	Lm	13 05	Kamchatka.
25	Lm	10 40	West Pakistan. MLH=5.1 Praha. Dc=45.1°. LmE: 11s 1.4 μ.
25	Lm	18 57	Japan. MLH=5.8 Praha. Dc=80.3°. LmE: 14s 2.8 μ, LmV: 12s 1.0 μ.
27	iP	06 04 02.8	C.S. Novaya Zemlya. MPV=7.0, MLH=6.4 Praha.
	i	04 37.0	Dc=29.1°. PV: 2s 4.3 μ, LmH: 12s 61 μ,
	e	09 19	LmV: 7s 4 μ.
	Lm	16.30	

Date	Phase	h m s	Remarks
27	eP	14 34 22	North Pacific Ocean. MLH=5.7 Praha. Dc=96.3°.
	ePP	38 25	LmH: 12s 1.8 μ, LmV:
	SSP	52 30	
	Lm	15 30	
28	eSg	09 45 18	Explosion of 8 tons. Dc=13 km.
28	ePKP	22 31 22	New Hebrides. Dc=143.7°.
29	eiP	02 42 21.7	D.S. Greece. MLH=6.0 Praha. D=11.5°, Dc=12.1°.
	e	42 46	LmH: 10s 88 μ, LmV: 11s 38 μ.
	eS	44 40	
	Lm	48 30	
29	eP	14 44 41	Japan. MLH=5.3 Praha. Dc=78.5°. LmH: 15s 1.1 μ,
	Lm	15 24	LmV: 15s 1.4 μ.
30	Lm	02 18 30	Greece. MLH=4.3 Praha. Dc=12.1°. LmH: 10s 1.6 μ, LmV: 10s 0.9 μ.

Date	Phase	h m s	Remarks
1	eP	16 35 46	Mona Passage. MSH=6.7, MLH=6.4 Praha. Dc=70.8°.
	e	35 54	SH: 10s 6.1/μ, LmH: 20s 18/μ, LmV: 20s 18/μ.
	e	37 57	
	eS	45 02	
	ePPS	45 49	
	Lm	17 02	
4	e	17 34 53	Austria. Dc=3.4°.
5	ePg	09 31 56	Explosion of 9.4 tons. Dc=12 km.
5	ePKP	13 04 45	Tonga Islands. Dc=144.4°.
	Lm	14 27	
6	e	18 56 36	Yugoslavia. Dc=8.4°.
9	Lm	12 22	Taiwan MLH=6.4 Praha. Dc=82.2°. LmH: 11s 10/μ.
9	Lm	15 19.3	Greece-Albania. MLH=4.8 Praha. Dc=11.6°. LmH: 11s 6.0/μ.
11	eP	15 43 00	Aleutian Islands. Dc=78.1°.
	ePcP	43 09	
11	ePn	16 17 23	Yugoslavia. Dc=4.4°.
	eSg	18 45	
	eL	18 50	
	Lm	19 18	
12	e	08 30 20	Explosion of 6.6 tons. Dc=88 km.
12	iP	13 01 43.0	C.S. Japan. MLH=6.4 Praha. LmH: 16s 17/μ,
	ePcP	01 56	LmV: 16s 13/μ.
	eS	11 37	
	Lm	41	
12	ePKP	19 04 25	New Hebrides. MLH=6.5 Praha. Dc=139.2°.
	e	04 49	LmH: 21s 11/μ, LmV: 22s 8.2/μ.
	ePP	07 22	
	e	07 49	
	ePKS	08 01	
	e	08 22	
	Lm	20 03.7	
13	eP	03 02 46	Leeward Islands. Dc=68.5°.
	epP	03 13	
18	e	15 00 03	Explosion of 12.6 tons. Dc=60 km.
18	eP	18 53 52	Greenland Sea. MLH=4.7 Praha. Dc=23.5°.
	Lm	19 03.5	LmH: 14.5s 2.1/μ, LmV: 13s 1.7/μ.
19	eP	05 32 06	Japan. Dc=81.1°.
19	eP	07 16 26	Crete. MLH=5.5 Praha. Dc=16.3°. LmH: 10s 17/μ,
	ePP	16 43	LmV: 11s 10/μ.
	eS	19 40	
	Lm	24	

Date	Phase	h m s	Remarks
21	eP	12 31 17	Kurile Islands. Dc=77.1°.
22	eP	06 40 42	Sea of Okhotsk. Dc=74.1°.
	epP	42 22	
23	e	02 38 39	New Hebrides. Dc=138.4°.
	ePP	41 26	
27	e	20 19 18	Snalhard. Dc=28.8°.
29	ePKP	08 19 04	Fiji Islands. Dc=144.7°.

Date	Phase	h m s	Remarks
1	ePKHKP	05 16 04	New Hebrides. Dc=137.7°.
	ePKIKP	16 09	
	epPKIKP	16 42	
	ePP	18 59	
	eSKP	19 34	
	eSKS	23 09	
3	ePKP2	14 32 38	South of Fiji. Dc=152.4°.
7	eP	17 29 44	Kurile Islands. Dc=78.7°.
	e	30 07	
	e	30 18	
8	ePn	11 33 22	Yugoslavia. Dc=8.5°.
	eSg	35 51	
9	ei	10 00 00.6	Explosion of 30.3 tons. Dc=66 km.
10	Lm	14 05	Mexico. MLH=6.6 Praha. Dc=89.4°. LmH: 15s 17/u, LmV: 16s 15/u.
10	eP	17 12 21	Turkey. MlE=5.4 Praha. Dc=16.1°. LmE: 11s 13/u.
	e	12 47	
	eS	15 31	
	Lm	23	
10	Lm	19 20	New Guinea. MLH=6.2 Praha. Dc=118.0°. LmH: 17s 4.4/u, LmV: 18s 5/u.
12	eSg	07 39 26	Switzerland. Dc=6.4°.
13	eP	12 28 47	D. Afghanistan. Dc=42.3°.
14	eiP	14 52 12.0	D. Romania. Dc=9.0°.
14	e	21 26 38	New Guinea. MLN=6.0 Praha. Dc=118.3°.
	Lm	22 19	LmN: 18s 3.4/u, LmV: 18s 6.5/u.
15	eP	02 18 53	Burma. Dc=67.4°.
16	ePg	05 03 32	Czechoslovakia. Dc=0.3°.
	eSg	03 36	
16	eP	21 01 36	Nepal-India. MLH=6.1 Praha. Dc=53.1°. LmH: 12s 12/u, LmV: 12s 1.7/u.
	ePP	03 33	
	eS	09 03	
	Lm	23.8	
17	eP	06 04 31	Jan Mayen Isl. Dc=24.7°.
18	eP	05 05 32	Kazakhstan. Dc=39.6°.
	ePP	07 08	
20	eP	01 08 18	Alaska. Dc=62.7°.
20	eP	15 42 24	Southern Nevada. Dc=82.8°.
	ePcP	42 30	

Date	Phase	h m s	Remarks
20	eP	18 52 45	Philippine Isl. MLH=6.0 Praha. Dc=89.9°.
	ePP	56 20	LmH: 16s 4.1/u.
	Lm	19 28	
21	iPKP	09 11 06.5	D. New Hebrides. Dc=144.1°. PV: 3s 5.1/u.
	eSKP	14 44	
23	e	16 09 20	New Guinea. MLH=6.5 Praha. Dc=122.4°. LmH: 18s 11/u, LmV: 18s 12/u.
	epPKP	09 32	
	e(PP)	10 40	
	ePKS	12 48	
	eSKKS	17 46	
	Lm	17 07	
26	e	04 25 57	Turkey. Dc=21.8°.
28	ePP	08 36	Chile. MLH=7.9 Praha. Dc=106.2°. LmH: 21s 350/u.
	eSKS	42	
	ePS	45	
	Lm	09 20	
30	ePKP	01 18 54	Fiji Isl. Dc=145.8°.
31	e	18 42 38	Santa Cruz Isl. MLH=8.1 Praha. Dc=135.5°.
	epPKP	42 50	LmH: 18s 370/u, LmV: 20s 410/u.
	ePP	45 16	
	ePKS	46 22	
	Lm	19 47.5	
31	ePKP	22 34 33	Santa Cruz Isl. MLN=7.2 Praha. Dc=135.4°.
	ePP	37 09	LmN: 17s 47/u, LmV: 18s 50/u.
	Lm	23 41.2	

Seismic observation of the station KAŠPERSKÉ HORY

July - December 1966

J.Nykles - B.Závorka

Instrument:

Vertical electrodynamic seismograph SVKM - 2 (short-periodic system).

Station coordinates: φ = 49°07.8′N, λ 13°34.8′E,
Elevation: h = 700 m,
Lithologic foundation: gneiss.

Instrument	Compt.	T_1(s)	T_2(s)	D_1	D_2	σ^2	Tm	Vm
SVKM-2	Z	1.4	0.7	0.73	2.0	0.4	1.0	100 000

Date	Phase	h m s	Remarks
1	iP	06 02 53.6	C. Taiwan, TPV=1.5 s A=691 mu, mPV=6.3, Dc=83.0°.
	eipP	03 24	
	iPP	06 04.5	
1	ePg	08 01 22	Explosion of 13.6 Tons(Germany), D=2.3°.
	ei	01 48.8	
	eiSg	01 56	
1	e	10 43 35	
	eiSg	43 51	
1	e	12 52 21	
	eiSg	52 47.6	
1	eiP	19 17 18.8	C. Aleutian Islands, TPV=1.3 s A=21 mu, mPV=5.1, Dc=77.6°.
1	eiPKP1	19 39 20.5	Fiji Islands, Dc=152.7°.
	eiPKP2	39 34.2	
1	eiP	20 30 15.7	El Salvador 13.7°N 88.3°W, H=20 17 49.4, h=205 km (ISC), m=4.9 ISC, Dc=87.4°.
2	ei	00 49 53	
	ei	50 17.8	
2	ePg	06 17 02	France 47.4°N 6.5°E, H=06 15 21, h=8 km(ISC), Dc=5.0°.
	eiSg	18 05.8	
2	ei	08 57 23.5	
2	eiP	11 30 25.6	Uganda 0.8°N 30.0°E, H=11 21 27.8, h=12 km(ISC),
	ei	30 31	m=4.6 ISC, Dc=50.2°, TPV=1 s A=8 mu, mPV=4.6.
3	eiP	04 07 12.4	C. Aleutian Islands, TPV=1.2 s A=31 mu, mPV=5.3, Dc=78.8°.
	ei	07 33.5	
3	eiPKP2	04 29 18	Tonga Islands, Dc=151.5°.
	ei	29 22.5	
	ei	29 42	
3	eSg	14 51 16	Poland, Dc=3.6°.
4	eiP	03 07 35.8	C. Aleutian Islands, TPV=1.1 s A=47 mu, mPV=5.5, Dc=78.4°.
	ei	07 59.4	
	ei	08 41.5	
4	iPKP1	07 41 12.8	D. Fiji Islands, Dc=151.2°.
	iPKP2	41 24	
	eipPKP	43 32.8	
4	eiP	12 21 33.6	D. Azores Islands, TPV=1.7 s A=75 mu, mPV=5.2, Dc=29.9°.
	ei	23 21.3	
	ei	24 32	

Date	Phase	h m s	Remarks
4	ei	12 38 11	
	eiSg	38 15.8	
	Lm	38 18	
4	ei	15 43 16	
4	eiP	18 45 39.8	D. Aleutian Islands, Dc=78.6°.
	ei	45 45.9	
	i	47 26	
	ei	48 28	
4	eiP	19 02 26.6	Aleutian Islands, Dc=79.1°.
4	ei	19 12 27	
	ei	12 44	
5	eiP	02 28 30	Azores Islands, Dc=29.9°.
5	eiP	02 33 45.2	Aleutian Islands, Dc=78.6°.
	iPcP	33 54.8	
	ei	35 54	
5.	eiPKIKP	03 41 54.4	D. Tonga Islands, Dc=145.5°.
	ei	42 08	
	eipPKP	43 01.8	
5	e	04 28 54	
	eiSg	29 23.5	
5	eiP	05 15 12	C. Azores Islands, TPV=1.4 s A=20 mu, mPV=4.8, Dc=29.8°.
	ei	15 27	
5	e	10 30 12	
	ei	30 39.2	
5	e	10 38 19	
5	e	12 15 51.6	
	ei	16 22	
5	e	14 38 36	
	ei	39 03.7	
	eiSg	39 29	
5	ePg	16 10 21	
	eiSg	10 26.7	
	Lm	10 30	
6	eP	00 19 43	Peru 15.6°S 75.6°W, H=00 05 56, h=46 km(ISC), m=5.0 ISC, Dc=101.1°.
6	ei(P)	03 07 35	Uganda 1.3°N 30.5°E, H=02 58 37, h=65 km(ISC), Dc=49.8°.

Date	Phase	h m s	Remarks
6	eiP	04 26 42	Italy, Dc=8.4°.
	ei	27 27.4	
	eiS	28 34.8	
	ei	29 09	
6	eP	10 33 28	Ionian Sea 37.9°N 20.0°E, H=10 30 34, h=26 km(ISC), Dc=12.1°.
6	eiP	12 05 14.4	Afghanistan 39.0°N 71.3°E, H=11 57 26, h=26 km(ISC), m=4.6 ISC, Dc=41.8°.
6	eiPg	13 04 19.8	D=2.2°.
	eiSg	04 47.6	
6	eiP	14 07 41.5	C. China, Dc=46.7°.
6	e Pg	19 42 16	D=30 km.
	eiSg	42 19.7	
	Lm	42 21	
7	eiPg	03 54 51	D=1.9°.
	eiSg	55 15.8	
7	eiPg	10 44 30.4	D=43 km.
	eiSg	44 35.4	
	Lm	44 38	
7	e	12 56 38	
	ei	56 35	
7	eiPKIKP	23 41 51.5	Tonga Islands, Dc=148.6°.
	ei	42 09	
8	eP	03 58 27	Persia 26.5°N 54.7°E, H=03 51 04, h=38 km(ISC), m=4.4 ISC, Dc=38.9°.
8	e	12 40 47	
8	iPg	15 00 45	D=32 km.
	iSg	00 48.8	
	Lm	00 51	
8	eiPKP	22 32 14.4	Tonga Islands, Dc=149.6°.
9	eiPn	10 06 15.6	Yugoslavia, Dc=7.1°.
	eiSn	07 30.8	
	ei	08 50.4	
9	eiPKP	14 33 28	D. Tonga Islands, Dc=149.6°.
	ei	33 35.8	
9	eiP	17 09 14.4	Persia 28.2°N 57.0°E, H=17 01 52, h=47 km(ISC), TPV=0.9 s A=9 mu, mPV=4.4, Dc=39.1°.

Date	Phase	h m s	Remarks
10	eiPKIKP	01 40 46	D. Tonga Islands, Dc=146.9°.
	ei	41 07.2	
10	ePg	03 46 52	France, Dc=5.1°.
	eiSg	47 56.8	
10	eiPg	08 33 00.5	D=1.3°.
	eiSg	33 18	
10	eiPKIKP	10 20 33.4	Kermadec Islands, Dc=159.6°.
	eiPKP2	21 11.8	
	ei	23 34	
10	eiPn	13 30 57.8	Austria. Dc=2.7°.
	ei	31 07.4	
	iSn	31 31.6	
10	iP	16 25 16	C. Ryukyu Islands, TPV=2.4 s A=408 mu, mPV=6.5°, Dc=85.0°.
	i	25 28	
	ei	26 05.2	
10	iP	22 16 53.8	C. Ryukyu Islands, TPV=1.2 s A=35 mu, mPV=5.5, Dc=84.5°.
11	ePg	12 45 35	D=1°.
	eiSg	45 48	
	Lm	45 55	
11	eiPg	23 05 42.2	Tonga Islands, Dc=149.8°.
	i	05 45	
	ei	06 19.5	
	ei	08 04.5	
12	eiP	00 09 06	Turkey, TPV=1.4 s A=24 mu, mPV=4.4, Dc=22.3°.
12	eiP	02 59 57	Mediterranean Sea, Dc=15.1°.
	ei	03 00 03.6	
	ei	01 04.8	
12	eiPKIKP	17 56 56.4	C. Loyalty Islands, Dc=146.9°.
	eipPKP	57 29	
	ei	58 04.5	
12	eiP	18 57 02	D. Caucasus, TPV=1.2 s A=312 mu, mPV=5.3, Dc=16.8°.
	i	57 23.2	
	i	58 09	
	i	59 47	
	iS	19 00 22	
12	eiPKIKP	21 59 49.2	Tonga Islands, Dc=150.9°.
13	eiPKP	07 05 36.6	Fiji Islands 23.4°S 180.0°E, H=06 46 55.7, h=541 km(ISC), m=4.6 ISC, Dc=152.2°.
	ei	05 50.2	
	eiPKP2	06 03	

Date	Phase	h m s	Remarks
13	eiP	06 33 41	Nicaragua, Dc=87.8°.
	ei	33 59	
	eipP	37 35.4	
13	e	12 53 48	
	eiSg	54 2818	
13	ei	14 58 31	
14	eiP	o4 43 41.9	Congo 0.6°N 29.9°E, H=04 34 47.7, h=33 km(ISC), m=5.1 ISC, Dc=50.3°.
14	eiP	06 31 08.2	Japan, Dc=83.5°.
	ei	31 16	
14	iPKIKP	07 43 24.7	D. Tonga Islands, Dc=145.7°.
14	eP	10 10 01	Kurile Islands, Dc=78.8°, TPV=1.1 s A=19 mu, mPV=5.0.
14	eiP	12 29 51.4	D. Alaska, TPV=1.1 s A=20 mu, mPV=5.1, Dc=74.1°.
14	e	12 41 32	
	ei	41 48	
	Lm	41 57	
14	ePg	13 59 52	D=2°.
	eiSg	14 00 18.7	
14	eiPg	15 55 50	Poland, Dc=3.3°.
	ei	56 09	
	eiSg	56 30	
14	eP	18 01 25	
14	eiP	18 18 52.4	C. Aleutian Islands, TPV=1 s A=35 mu, mPV=5.4, Dc=76.3°.
	ei	20 41	
15	eP	02 33 38	North Atlantic Ridge, Dc=38.7°.
15	eP	08 10 53.4	Leeward Islands, Dc=67.6°.
	ei	11 03	
15	eiPKIKP	08 56 18	Tonga Islands, Dc=149.6°.
	i	56 25.9	
15	eiPg	10 59 06.4	D=25 km.
	eiSg	59 09.5	
	Lm	59 11	
15	e	12 46 13	
	ei	46 56	
15	eiPg	12 59 18.4	D=60 km.
	iSg	59 25.4	
	Lm	59 30	

Date	Phase	h m s	Remarks
15	ePg	13 24 51	D=76 km.
	eSg	25 00	
	Lm	25 06	
15	iPg	13 57 31.9	Explosion of 20 Tons, Dc=51 km.
	iSg	57 37.9	
	Lm	57 43	
15	eiPn	14 00 42.8	Austria, Dc=2.2°.
	eiPg	00 46	
	eiSn	01 07.8	
	ei	01 13	
15	eP	23 52 59	Greece, Dc=11.7°.
	e	54 47	
16	eiSg	07 38 35	
	ei	38 53	
16	eiPg	11 09 32	D=94 km.
	eiSg	09 43	
16	eiP	19 51 24.5	Kirgiziya - Sinkiang, Dc=42.5°.
17	eP	01 14 41	Pribilof Islands 56.5°N 167.0°W, H=01 03 04, h=40 km(ISC), m=4.8 ISC, Dc=74.5°.
17	iPKIKP	02 43 43.8	C. Loyalty Islands 21.5°S 169.7°E, H=02 24 07,
	ei	44 05.5	h=61 km(ISC), m=5.1 ISC, Dc=146.6°.
17	eiP	08 57 20	Alaska, Dc=68.7°.
	ei	58 08.5	
17	eiP	15 18 41	Kurile Islands 44.3°N 149.6°E, H=15 06 37, h=20 km (ISC), m=4.1 ISC, Dc=79.3°.
17	eiPKP	16 24 01.8	Tonga Islands, Dc=149.6°.
17	e	16 58 29	
18	eiPKP	01 07 18.5	Fiji Islands, Dc=152.8°.
18	eiP	02 04 34	Carlsberg Ridge, Dc=55.5°.
	ei	04 40.2	
18	eiP	04 51 35.2	Japan, Dc=81.6°.
18	eiP	10 08 09.2	Arabian Sea, Dc=50.9°.
18	ePg	14 08 24	D=1.7°.
	eiSg	08 46.5	
18	eiP	19 47 14.2	Carlsberg Ridge, Dc=55.6°.
18	ePKP	22 34 38	Chile 38.2°N 93.8°W, H=22 15 39.0, h=33 km(ISC), m=5.0 ISC, Dc=128.3°.

Date	Phase	h m s	Remarks
19	iP	01 52 20.2	D. Komandorsky Islands, TPV=1.2 s A=25 mu, mPV=5.2, Dc=72.3°.
	ei	52 59	
	ei	53 46	
19	eiPg	06 52 04	D=1.7°.
	iSg	52 26.7	
19	eiP	14 34 44	Japan, Dc=84.0°.
19	iP	19 32 36.1	C. Aleutian Islands, TPV=1.3 s A=76 mu, mPV=5.6,
	i	32 49.0	Dc=79.3°.
	ei	33 37	
20	eiP	10 18 53	Greece, Dc=11.7°.
	ei	19 03	
	ei	20 25.2	
20	eP	11 27 23.5	Kurile Islands 45.0°N 150.0°E, H=11 15 22, h=25 km(ISC), m=4.5 ISC, Dc=78.8°.
21	eiPKP2	03 53 39.5	Macquarie Island, Dc=158.8°.
	eiPP	57 19.5	
21	eiP	04 05 43	C. Kazakhstan, TPV=1 s A=26 mu, mPV=4.9, Dc=40.8°.
	ei	07 18	
21	eP	05 24 04	Komandorsky Island 56.5°N 164.3°E, H=05 12 53, h=165 km(ISC), m=4.3 ISC, Dc=71.9°.
21	ePKIKP	05 42 04	Solomon Islands 5.0°S 154.4°E, H=05 23 51.3, h=411 km(ISC), m=4.9 ISC, Dc=124.9°.
21	ePg	06 51 07.6	D=2.4°.
	eiSg	51 38	
21	ei	08 37 54.8	
21	eiP	09 14 31	Aleutian Islands, Dc=79.2°.
	ei	14 42.8	
21	eiP	10 14 51.5	Aleutian Islands, TPV=1 s A=13 mu, mPV=4.9, Dc=79.3°.
21	e	12 45 27.5	
21	ePg	16 14 01	D=2°.
	eiSg	14 26.9	
21	ei	18 28 53	
21	eiPKIKP	18 48 51	Tonga Islands, Dc=147.3°.
	iPP2	48 54.4	
	ei	49 52.2	
	ei	51 18.5	

Date	Phase	h m s	Remarks
22	eiP	03 00 20	Congo 0.6°N 29.7°E, H=02 51 24.8, h=33 km(ISC), m=4.8 ISC, Dc=50.3°.
22	eiP eiPP	03 48 37.5 50 32.3	China, Dc=48.0°.
22	eiPKIKP	08 01 12	New Hebrides 18.3°S 167.3°E, H=07 41 42.7, h=33 km(ISC), m=5.0 ISC, Dc=142.6°.
22	eiPKIKP ei ei eiPP	08 44 57 45 04 45 52.1 48 07.8	New Hebrides, Dc=140.9°.
22	eiSg	10 23 20.8	Explosion of 7 Tons, Dc=1.0°.
22	iP ei ei	10 29 24.8 29 39.2 30 18	C. Aleutian Islands, Dc=79.4°.
22	ePg eiSg	12 05 08.6 05 29	D=1.6°.
22	ePg eiSg	14 17 31 17 48	D=1.3°.
23	eiP ei	03 49 59.4 49 12.4	C. Aleutian Islands, TPV=1 s A=24 mu, mPV=5.2, Dc=79.4°.
23	eP ei	05 31 25 33 33	Greece, Dc=11.7°.
23	eiP ei	08 38 13.6 38 21.5	Aleutian Islands, Dc=79.1°.
23	eiPg eiSg	10 00 46.5 01 09	Explosion of 4.6 Tons, Dc=1.3°.
23	eiP ei	14 43 53 45 05.4	C. Aleutian Islands, Dc=79.4°.
23	eiP	14 51 51.4	Aleutian Islands 51.7°N 173.4°W, H=14 39 48.1, h=38 km(ISC), m=4.4 ISC, Dc=79.4°.
23	e eiSg	15 33 09 34 52	Yugoslavia 45.0°N 21°E, H=15 31 40, h=0 km(ISC), Dc=6.7°.
23	eiP	20 24 03	C. Aleutian Islands, TPV=1 s A=21 mu, mPV=5.1, Dc=79.3°.
24	eP	01 30 26	Greece 39.0°N 21.9°E, H=01 27 39, h=15 km(ISC), m=4.5 ISC, Dc=11.8°.
24	eiPKIKP ei	09 11 53.5 12 06.3	Samoa Islands, Dc=146.9°.

Date	Phase	h m s	Remarks
24	eiPKP	14 19 36.4	Loyalty Islands, Dc=146.8°.
24	eiPKIKP i iPKP2 ei ei	17 37 51 37 57.2 38 04 38 38.6 39 08.4	Tonga Islands, Dc=150.6°.
25	eiP ei	09 30 40.9 31 02.3	Aleutian Islands, TPV=1.3 s A=32 mu, mPV=5.2, Dc=79.1°.
25	e eiSg	12 43 04 43 55	
25	e ei	20 07 21.5 08 35	
26	eiP	03 59 54.3	D. Komandorsky Islands, TPV=1 s A=11 mu, mPV=4.9, Dc=72.3°.
26	eiPKP	06 03 09.8	Tonga Islands, Dc=147.4°.
26	eiPg eiSg Lm	10 16 03.7 16 14.5 16 21	D=93 km.
26	eP	12 58 46	Japan, Dc=77.7°.
26	eP	13 02 22.6	Aleutian Islands, Dc=79.2°.
26	eiPKIKP ei iPKP2	22 59 26.5 59 37.2 59 57.2	Kermadec Islands, Dc=156.8°.
27	eP ei ei	05 03 23 06 13 08 16	Chile, Dc=104.0°.
27	eiPg eiSg	12 44 46 45 13	D=2.1°.
27	eiP ei	14 55 18 56 07.5	C. Persia, TPV=1.5 s A=54 mu, mPV=5.3, Dc=30.9°.
27	eiP	15 36 41	Persia 32.8°N 48.9°E, H=15 30 30.4, h=79 km(ISC), m=4.5 ISC, Dc=31.0°.
27	ei	16 02 58	Aleutian Islands 52.2°N 178.6°W, H=15 51 00, h=47 km(ISC), m=4.1 ISC, Dc=78.5°.
27	eiP	18 12 48.2	Persia 32.8°N 48.8°E, H=18 06 38.1, h=79 km(ISC), m=4.6 ISC, TPV=1.3 s A=14 mu, mPV=4.5, Dc=30.8°.
27	eiP	19 46 24	Persia 32.6°N 49.0°E, H=19 40 14.4, h=100 km(ISC), m=4.7 ISC, Dc=31.1°.

Date	Phase	h m s	Remarks
28	ePKIKP ei	01 38 00 41 37.6	New Hebrides, Dc=141.9°.
28	ePn eiPg iSn i	02 00 55.6 01 28.2 02 10.4 02 26.4	Yugoslavia, Dc=6.7°.
28	eiPg iSg Lm	11 00 13 00 21 00 24	Explosion? D=63 km.
28	eiPKIKP eiPKP2	12 27 42.8 28 17.5	Kermadec Islands, Dc=158.6°.
28	e eiSg	12 45 12 45 56	
28	ei	14 18 22.5	
28	eiPKPK	14 44 03	Tonga Islands 21.9°S 179.4°W, H=14 25 14.9, h=594 km(ISC), Dc=151.0°.
28	eiPKIKP	20 19 08	New Hebrides 19.6°S 168.9°E, H=19 59 37, h=38 km (ISC), Dc=144.5°.
28	e	22 44 40.5	
29	eiP	06 38 03	Ryukyu Islands 28.9°N 129.4°E, H=06 25 39.7, h=55 km(ISC), m=5.1 ISC, Dc=83.6°.
29	eiP	07 20 05	Japan 43.6°N 145.4°E, H=07 08 14.0, h=106 km(ISC), m=5.0 ISC, Dc=78.5°.
29	eP	08 27 43	Persia, Dc=35.7°.
29	ePKIKP	12 05 26	Solomon Islands, Dc=134.0°.
29	ei	12 43 58	
29	eiPn eiPg eiSg	15 05 46 05 53 09 28	Explosion of 15 Tons (Germany), Dc=2.7°.
29	eiP	20 00 08.0	Kurile Islands, TPV=1 s A=13 mu, mlV=5.0, Dc=78.3°.
29	eiP ei	22 20 21.4 20 33.2	Japan, Dc=83.2°.
30	eiPn ei eiSn	05 21 03.8 21 30.5 22 18	Yugoslavia, Dc=6.7°.
30	eiSg	13 36 44.8	

Date	Phase	h m s	Remarks
30	eiPg ei eiSg	13 36 44.8 37 04 37 29	D=2°.
30	eiP	17 52 52.2	Philippine Islands, Dc=97.9°.
30	e eiSg	23 53 10 53 55.4	Poland, Dc=3.7°.
31	eP	04 25 44	Mediterranean Sea 35.7°N 22.3°E, H=04 22 17, h=71 km(ISC), Dc=14.8°.
31	eP	11 05 39	Yugoslavia 41.4°N 21.2°E, H=11 03 21, h=31 km(ISC), m=4.6 ISC, Dc=9.6°.
31	eiPI	12 06 52	Tonga Islands 17.9°S 174.2°W, H=11 47 02, h=16 km (ISC), m=4.4 ISC, Dc=148.3°.
31	eiPKIPP	12 09 03.5	New Hebrides, Dc=146.6°.
31	eiP	15 26 13.8	D. Uganda, TPV=1.2 s A=25 mu, mlV=5.0, Dc=50.9°.

Date	Phase	h m s	Remarks
1	ePKIKP	03 42 11	Solomon Islands, Dc=132.7°.
1	eiP	06 37 58.2	Aleutian Islands 51.6°N 177.7°E, H=06 25 59, h= 46 km(ISC), m=5.1 ISC, Dc=78.7°.
1	eiPg eiSg	14 53 11 53 29.2	D=1.4°.
1	eiP	17 25 39	Uganda 0.7°N 30.0°E, H=17 16 42.9, h=38 km(ISC), Dc=50.3°.
1	eiP i ei	19 18 14.6 19 19.7 20 12	D. Pakistan, TPV=1.1 s A=20 mu, mPV=5.0, Dc=45.5°.
1	eiPKIKP	20 05 07	C. Tonga Islands, Dc=150.1°.
1	eiP eiPP	20 39 14.3 40 47.2	C. Pakistan, Dc=45.5°.
1	eiP ei	20 44 06.5 45 04.4	C. Kurile Islands, TPV=1.5 s A=92 mu, mPV=5.6, Dc=79.2°.
1	eiP i i	21 11 15.7 11 17.7 12 33.6	Pakistan, Dc=45.4°.
1	eP ei	22 39 14 40 34.2	Pakistan, Dc=45.6°.
2	eiP	05 49 55.4	Pakistan, Dc=45.5°.
2	eP	09 27 19	Pakistan, Dc=45.9°.
2	eP	19 00 55	Japan, Dc=81.6°.
2	eiPKIKP	19 44 14	Tonga Islands 18.5°N 177.7°W, H=19 25 29.2, h= 540 km(ISC), m=3.8 ISC, Dc=148.1°.
2	e	20 16 19.5	
3	e eiSg	02 37 06 37 27.4	
3	eiP eiPcP	04 37 47.5 38 00	Kurile Islands, Dc=78.9°.
3	eiPn eiPg eiSn eiSg	11 40 47 40 50 41 15.8 41 18	Austria, Dc=2.2°.
3	e eiSg	12 47 22 47 44	

Date	Phase	h m s	Remarks
3	eiPg eiSg Lm	13 28 36.7 28 39 28 41	D=20 km.
4	eP	04 14 20	Crete 35.2°N 23.3°E, H=04 10 33.2(ATH), Dc=15.6°.
4	e eiSg	12 42 58.5 43 05	
4	ePg eiSg Lm	12 47 25.7 47 30.5 47 33	D=32 km.
4	ePg eiSg Lm	14 35 38.4 35 42 35 45	D=32 km.
4	ePg eiSg Lm	14 58 27 58 39 58 44	D=1°.
4	eiPKP ei	15 44 59 46 03	C. Tonga Islands, Dc=147.8°.
5	eiP ei	01 12 02.6 12 48.4	C. Kashmir - Tibet, TPV=1.2 s A=26 mu, mPV=5.1, Dc=50.9°.
5	eiP	04 05 42	Kazakhstan, TPV=1 s A=32 mu, mPV=5.0, Dc=40.7°.
5	eiP	04 37 22	Japan, Dc=76.1°.
5	eiPg eiSg	04 44 08.2 44 34	D=1.8°.
5	eiPKIKP ei eiPP	04 52 15.6 52 36.5 54 49	Solomon Islands, Dc=134.3°.
5	iPg iSg	08 00 27.5 00 30.5	D=25 km.
5	e	10 47 05	
5	ePg eiSg	11 40 06.5 40 19.7	D=1°.
5	e ei ei Lm	12 44 05 45 03 45 36.4 45 55	
5	eiP ei ei	17 49 37.5 50 04.8 51 38.2	D. Yugoslavia, Dc=7.8°.

Date	Phase	h m s	Remarks
5	iP	20 12 12.0	Bonin Islands, Dc=88.9°.
6	eiP	02 33 01	Yugoslavia, Dc=7.8°.
	ei	33 22	
	eiS	34 35	
	i	36 06.4	
6	ei	03 53 44.8	
6	ei	04 03 03	Greece, Dc=10.3°.
	ei	05 09	
6	ePn	05 25 30	Adriatic Sea 41.6°N 18.6°E, H=05 23 30(ISC), Dc=8.3°.
	ei 2	27 28	
6	eiP	05 53 53	D. Yugoslavia, Dc=7.8°.
	i	54 26	
	iS	55 24.8	
	ei	56 08	
6	eP	18 35 33	Greece, Dc=12.8°.
	ei	36 08.5	
6	eiP	19 45 24	C. Kurile Islands, TPV=1.3 s A=36 mu, mPV=5.2, Dc=79.1°.
	ei	45 37.7	
6	eiP	20 17 49.2	Greenland Sea, Dc=24.4°.
6	eiP	20 31 32.2	C. Kurile Islands, TPV=1.3 s A=25 mu, mPV=5.1, Dc=79.2°.
	eiPcP	31 45	
6	eiP	21 16 30	Aleutian Islands, Dc=78.1°.
7	iP	02 25 15.6	D. Aleutian Islands, TPV=2 s A=1750 mu, mPV=6.8, Dc=80.6°.
	i	25 26.5	
	i	26 25.2	
	iPP	28 13.6	
	eiS	35 31	
	ei	36 03.2	
7	eiP	02 51 55	
7	eiP	17 49 19.5	California, Dc=87.2°.
	ei	51 23.2	
7	eiP	20 30 38.4	C. Japan, TPV=0.7 s A=39 mu, mPV=5.6, Dc=78.7°.
	ei	31 01.5	
8	eiP	00 49 36	Japan, Dc=81.6°.
8	eiPn	02 05 59	Yugoslavia, Dc=7.5°.
	ei	07 58.6	
8	ePKIKP	07 43 34	Santa Cruz Islands 10.6°S 164.3°E, H=07 24 16.7, h=33 km(ISC), m=5.0 ISC, Dc=134.5°.

Date	Phase	h m s	Remarks
8	eiP	08 16 10	Revilla Gigedo Islands, Dc=94.4°.
	ei	19 44.5	
8	eiP	11 46 04	Greece 40.7°N 21.6°E, G=11 43 41, h=47 km(ISC), m=4.4 ISC, Dc=10.2°.
8	ePg	13 46 58	D=1.4°.
	eiSg	47 47	
	Lm	47 29	
8	e	22 56 09	Loyalty Islands 20.1°S 168.7°E, H=22 37 40, h=21 km(ISC), Dc=144.9°.
	ei	56 12.8	
9	eiP	01 07 29	Yugoslavia, Dc=7.9°.
	ei	08 03.4	
	ei	09 29.8	
	ei	09 56	
9	eiP	03 36 35.2	Albania, Dc=10.0°.
	i	36 57	
	ei	39 24.7	
9	eiPg	08 07 17	Explosion?
9	eiP	18 25 26.7	Costa Rica, Dc=88.0°.
9	ePg	13 51 46	D=1.2°.
	eiSg	52 01.5	
	Lm	52 12	
9	e	15 12 43	
9	eiPKIKP	17 50 25	Tonga Islands, Dc=151.0°.
9	eiPKP	22 45 18	New Hebrides, Dc=141.8°.
9	eiPKP2	23 51 23.2	Tonga Islands, Dc=153.0°.
10	iPKIKP	05 20 45.2	D. Tonga Islands, Dc=150.4°.
	iPKP	20 50.0	
	i	21 15.8	
	ei	23 18.4	
10	ei	17 23 28.7	
10	ei	12 00 53.5	Explosion of 21.9 Tons, Dc=1.5°.
	eiPg	00 56	
	iSg	01 15.5	
10	ePKP	12 52 38.4	New Britain, Dc=124.0°.
10	eiP	15 25 57.5	Greece, Dc=14.2°.
	ei	26 08	
10	eiP	21 30 40	

Date	Phase	h m s	Remarks
10	iP	22 13 21	C. Tadzhikistan, TPV=1 s A=59 mu, mPV=5.3, Dc=
	ei	14 06.5	40.9°.
11	eiP	00 26 40.2	Ionian Sea, Dc=12.7°.
	ei	26 51.7	
	ei	27 18.5	
11	eiP	04 37 05.7	Greece, Dc=11.9°.
	ei	37 46.5	
	ei	39 46.4	
11	eiPKIKP	05 32 26.6	C. Tonga Islands, Dc=149.6°.
	iPKP	32 31.4	
11	ePKIKP	08 58 47	Tonga Islands, Dc=147.6°.
11	eiPKIKP	09 13 45	Tonga Islands, Dc=147.5°.
11	eiP	10 57 56.5	C. Aleutian Islands, TPV=1.1 s A=26 mu, mPV=5.2, Dc=78.6°
11	eiPg	17 31 16	
	eiSg	31 24.6	
	Lm	31 28	
11	eiPKIKP	20 59 44.6	D. Tonga Islands, Dc=153.5°.
	ei	21 00 15.6	
11	ePKP	22 36 14	Tonga Islands, Dc=153.6°.
11	eiPKP	23 37 15	Tonga Islands, Dc=153.5°.
11	eiPKIKP	23 45 25.6	Tonga Islands, Dc=153.2°.
	ei	45 33	
	eiPP	49 16.4	
12	eiPKP2	00 32 34.5	Tonga Islands, Dc=115.1°.
12	ePKIKP	02 08 37	Samoa Islands 14.9°S 175.6°W, H=01 49 02.5, h= 22 km(ISC), m=4.6 ISC, Dc=145.1°.
12	e	03 06 17	D=3.1°.
	eiPg	08 19	
	ei	08 48.5	
	eiSg	08 58.5	
12	eiPKIKP	04 19 23.8	Fiji Islands, Dc=152.2°.
	iPKP	19 31.7	
	eipPKP	20 08	
12	eiPKIKP	05 23 35.3	D. Tonga Islands 15.1°S 175.1°W, H=05 04 00, h= 33 km(ISC), m=4.5 ISC, Dc=145.3°.
12	eiPg	08 00 11	

Date	Phase	h m s	Remarks
12	ePKIKP	10 56 13	Loyalty Islands 22.7°S 170.5°E, H=10 36 27, h= 0 km(ISC), Dc=147.9°.
12	ePKP	14 49 56	Tonga Islands, Dc=150.0°.
12	eiPKP1	14 57 49.5	Tonga Islands, Dc=153.7°.
	eiPKP2	58 10.6	
12	eiPg	15 41 47	D=64 km.
	eiSg	41 54.5	
	Lm	41 58	
12	iP	19 34 16.8	D. Japan, TPV=0.8 s A=68 mu, mPV=5.5, Dc=83.3°.
12	eP	21 21 12	Volcano Islands 23.8°N 142.0°E, H=21 08 05, h= 101 km(ISC), m=4.6 ISC, Dc=94.0°.
13	ePKIKP	01 51 28	Loyalty Islands 22.2°S 170.3°E, H=01 31 44, h= 0 (ISC), Dc=147.4°.
13	ei	02 12 52	
13	eiPKIKP	02 43 44.4	Loyalty Islands, Dc=147.3°.
13	eiPKIKP	02 59 26	Loyalty Islands, Dc=148.1°.
13	eiPKIKP	04 21 05.5	Loyalty Islands, Dc=147.3°.
13	e	04 37 27	
13	ePKIKP	06 04 34	Loyalty Islands, Dc=147.4°.
	ei	04 39.5	
13	e	06 09 00	
13	eiPKIKP	06 32 30.5	Loyalty Islands 22 1/2° S 170 1/2° E, H=06 12 47 (ISC), Dc=147.8°.
13	ei	06 34 55	
13	eiPKIKP	07 01 59.5	Loyalty Islands 21.8°S 169.6°E, H=06 42 21, h= 33 km(ISC), Dc=146.8°.
13	ei	07 03 34.6	
13	eiP	07 04 04	
	ei	04 10	
13	ei	07 45 11.5	
13	eiPKIKP	09 38 14.8	C. Loyalty Islands, Dc=147.3°,
	ei	40 03.7	
13	ei	09 54 20.8	
13	eiPn	11 00 23.5	D=1.4°.
	eiPg	00 24.8	
	iSg	00 43	

Date	Phase	h m s	Remarks
13	eiPKIKP	12 31 14.5	Loyalty Islands, Dc=147.2°.
13	ePg	12 44 02	D=1°.
	eiSg	44 12.5	
	Lm	44 16	
13	ePn	13 01 49	D=62 km.
	eiPg	01 56.3	
	eiSg	02 22.4	
13	ei(Pg)	13 35 48.8	
	eiSg	36 15.5	
13	ePKIKP	18 05 23	Loyalty Islands, Dc=147.4°.
13	eiPKIKP	20 13 36	Loyalty Islands, Dc=147.2°.
13	ePKIKP	21 16 39	Loyalty Islands 22.2°S 170.0°E, H= 20 57 00 (NOU), Dc=147.3°.
13	e	23 23 15	
	eiSg	23 33.7	
14	eiPKIKP	04 55 50.5	Loyalty Islands 21.9°S 170.4°E, H=04 36 06, h= 55 km(ISC), Dc=147.2°.
14	eiPKIKP	05 10 49	Loyalty Islands, Dc=146.9°.
	ei	11 04.5	
14	eP	15 16 28	Tadzhikistan 38.3°N 73.7°E, H=05 08 34.6, h=144 km (ISC), m=4.7 ISC, Dc=43.7°.
14	ei	05 52 29.5	
14	ei	06 09 49.5	
14	eiPKP	06 28 25.3	Loyalty Islands, Dc=146.8°.
14	eiPKIKP	08 07 15	Loyalty Islands, Dc=147.2°.
14	eiPKIKP	10 22 28.8	Loyalty Islands, Dc=147.3°.
14	eiPKIKP	12 11 41	Loyalty Islands, Dc=147.3°.
	ei	11 47	
14	eiPg	21 29 57.8	Italy, Dc=4.9°.
	iSg	30 53	
14	eiPKIKP	21 38 37.5	Loyalty Islands, Dc=147.0°.
	ei	38 54.6	
14	eiPKP	23 21 28	Tonga Islands, Dc=150.3°.
15	eiP	02 24 48.0	D. Northern India, TPV=1 s A=27 mu, mPV=5.1, Dc= 53.1°.
	ei	25 02.6	

Date	Phase	h m s	Remarks
15	eiP	12 58 39.2	Philippine Islands, TPV=1.2 s A=16 mu, mPV=
	ei	58 45.8	Dc=91.3°.
	eiPP	03 02 21.5	
15	eiP	03 45 15.5	Ionian Sea, Dc=12.8°.
15	eiP	10 31 00.7	D. Carlsberg Ridge, TPV=1.3 s A=29 mu, mPV=
	eiPP	33 21.5	Dc=62.2°.
15	ei	12 43 12	
15	eiPKP	13 16 52.3	Tonga Islands, Dc=150.0°.
15	iP	13 47 35.5	Southern Alaska, TPV=1.5 s A=64 mu, mPV=5.5
	i	47 40.6	69.7°.
	ei	48 30.8	
	eiPP	50 09.2	
15	e	14 15 41	
15	eP	19 48 30	Alaska 61.1°N 150.6°W, H=19 37 14, h=98 km(m=4.3 ISC, Dc=69.4°.
16	iP	02 24 00.6	C. Hindu Kush, TPV=1.4 s A=163 mu, mPV=5.4,
	iPP	25 44.5	42.9°.
	ei	26 17.3	
	eisPP	26 50.5	
	eiScP	29 18	
	ei	33 42	
16	eiP	02 53 10.2	Jan Mayen, TPV=1.1 s A=14 mu, mPV=4.4, Dc=24.
16	eiP	03 31 11.4	Albania, Dc=10.1°.
	eiS	32 50.8	
	ei	34 17	
16	iP	03 56 04.8	C. Albania, Dc=10.0°.
	i	56 39	
	i	58 59	
	i	59 50.6	
16	eiPKIKP	05 14 08	C. Loyalty Islands, Dc=147.1°.
	ei	14 23	
16	eP	13 48 45	Greece - Albania, Dc=10.8°.
	ei	50 30.6	
16	eiP	14 34 28.6	Kamchatka, Dc=75.0°.
16	e	17 02 50	
	eiSg	03 16.5	
	Lm	03 17	
16	ePKP2	18 07 46	Kermadec Islands, Dc=157.0°.

Date	Phase	h m s	Remarks
16	eiP	18 14 58.8	Southern Nevada, Dc=82.2°.
	eiPP	18 08.6	
16	eiPKIKP	20 05 19.6	Loyalty Islands, Dc=147.1°.
	i	05 27.0	
16	eP	21 05 34	Turkey 37.5°N 29.3°E, H=21 01 49.5, h=79 km(ISC), m=4.4 ISC, Dc=16.3°.
16	ePKP	21 44 20.5	Tonga Islands, Dc=149.5°.
17	eiPKP	01 13 22	Loyalty Islands, Dc=147.2°.
	ei	13 28.3	
17	ePn	05 17 09	Italy, Dc=4.8°.
	eiPg	17 31.6	
	iSn	18 06.5	
17	eiP	05 49 53	Aleutian Islands 51.9°N 176.3°E, H=05 37 57.1, h=63 km(ISC), m=4.8 ISC, Dc=78.3°.
17	eiSg	08 00 42	
	Lm	00 48	
17	eiPg	09 56 59.5	D=1.4°.
	eiSg	57 18	
17	ePg	12 44 38	D=1°.
	eiSg	44 49.6	
17	e	12 47 30.5	
	ei	47 38.4	
17	e	12 48 47	
	eiSg	49 24	
	Lm	49 43	
17	eiP	17 50 18.5	Kurile Islands, TPV=1.1 s A=26 mu, mPV=5.3, Dc=77.3°.
17	eiP	21 10 33.5	Aleutian Islands, Dc=77.9°.
	ei	11 18.7	
17	ePg	22 24 16.5	D=1.3°.
	eiSg	24 33	
17	eiP	23 20 30.5	North Atlantic Ridge, Dc=27.8°.
18	eP	00 18 02	Sumatra, Dc=89.3°.
18	eiPKIKP	02 49 24	Samoa Islands, Dc=146.3°.
18	eiP	06 50 05	Aleutian Islands 51.6°N 177.9°E, H=06 38 05, h=43 km(ISC), m=5.2 ISC, Dc=78.7°.
18	eiP	10 46 03.5	Guatemala, TPV=1 s A=46 mu, mPV=5.7, Dc=88.9°.
	ei	47 26	

Date	Phase	h m s	Remarks
18	e	12 41 57.2	
	eiSg	42 06	
18	e	12 44 50.5	
	eiSg	45 07	
18	eiP	14 47 59.3	C. Molucca Sea, Dc=104.0°.
	ei	48 16	
18	eiP	14 51 54	Molucca Sea, TPV=1.3 s A=29 mu, mPV=5.9, Dc=103.9°.
	ei	56 17	
18	ePg	14 53 06	D=1.4°.
	eiSg	53 24	
18	eiPKIKP	15 21 59.2	Loyalty Islands, Dc=146.8°.
	ei	22 04	
18	eiP	22 12 39	C. Dodecanese Island, Dc=15.9°.
19	eiP	03 21 16.2	Gulf of Alaska, TPV=1.1 s A=14 mu, mPV=5.0, Dc=70.3°.
19	eP	04 00 43	Kazakhstan, TPV=1 s A=8 mu, mPV=4.3, Dc=40.4°.
19	eiPn	04 07 44	Italy, Dc=4.6°.
	ei	08 17	
	iSn	06 36	
19	e	04 40 08.5	
	eiSg	41 20.7	
19	iPg	09 44 50	D=1.1°.
	eiSg	45 04.8	
	Lm	45 11	
19	eP	11 03 12	Southern Nevada 37.3°N 114.1°W, H=10 51 40.9, h=43 km(ISC), m=4.2 ISC, Dc=68.9°.
19	eP	11 35 08	Aleutian Islands, Dc=77.7°.
19	iP	12 27 06.4	C. Turkey, TPV=1 s A=46 mu, mPV=4.9, Dc=22.3°.
	iS	31 14	
19	eiP	12 58 48.5	C. Japan 36.4°N 141.8°E, H=12 46 23.8, h=28 km(ISC), m=5.2 ISC, Dc=83.2°.
19	eiP	13 20 03.2	Turkey 39.4°N 41.3°E, H=13 15 13.6, h=62 km(ISC), m=4.9 ISC, Dc=22.0°.
19	ei	13 33 06	
19	ei	13 37 49	
19	eiPKIKP	13 59 22	Tonga Islands 18.7°S 173.7°W, H=13 39 42.3, h=33 km(ISC), Dc=149.1°.

Date	Phase	h m s	Remarks
19	eP	14 08 53	Turkey 39.2°N 41.4°E, H=14 03 55, h=14 km(ISC), m=4.7 ISC, Dc=22.2°.
19	ePKP ei	14 15 37 16 05.8	Tonga Islands 18.9°S 177.4°W, H=13 57 23.4, h=568 km(ISC), Dc=148.6°.
19	eiP ei	14 22 48.6 23 09	C. Turkey 39.3°N 41.2°E, H=14 17 56.9, h=39 km (ISC), m=5.0 ISC, Dc=22.0°.
19	eSg	15 54 58	Poland 50.3°N 18.9°E, H=15 53 04(WAR), Dc=3.6°.
19	eiP	18 46 11.5	Turkey, Dc=22.3°.
19	eP	21 43 45.5	Turkey, Dc=22.5°.
19	eP	21 47 43.5	Turkey, Dc=22.4°.
20	eP	04 50 18	Turkey, Dc=22.5°.
20	eiP	07 56 29	**Peru-Ecuador** , Dc=92.9°.
20	iP eipP ei eiS	09 44 08.6 44 46 46 53 53 41.5	D. Japan, TPV=1 s A=142 mu, mPV=5.7, Dc=77.2°.
20	eiP i i	12 04 01.7 04 31 05 18.8	D. Turkey, TPV=1.6 s A=180 mu, mPV=5.3, Dc=21.8°.
20	iP	12 06 34.5	Turkey, Dc=21.8°.
20	eiPn ei	12 07 13 08 01	Yugoslavia, Dc=7.8°.
20	ei	12 44 05.6	
20	eiPn eiSn ei	13 10 04.2 11 39.6 12 48.2	Yugoslavia, Dc=7.9°.
20	e ei	13 17 52 18 08.3	
20	eiP	13 23 26	Kurile Islands, Dc=79.2°.
20	eiP	15 22 21.8	Turkey, Dc=21.5°.
20	eiP ei	17 58 55 59 12	C. Turkey, TPV=1 s A=8 mu, mPV=4.1, Dc=21.7°.
20	eiP	18 34 31.2	
20	eiPn i eiSn ei	19 10 16 10 20.2 11 46.4 12 40	Yugoslavia, Dc=7.9°.

Date	Phase	h m s	Remarks
20	ei	22 46 19.6	
20	eiPKIKP ei ei	23 17 48.5 15 10.6 16 09	Fiji Islands, Dc=153.4°.
20	e	23 28 11	
20	ePKIKP	23 23 09	Tonga Islands, Dc=153.8°.
21	eiP ei	00 20 02 20 41.6	Turkey, Dc=22.4°.
21	eiP i ei ei	01 33 50.6 33 59.7 34 33 37 55	D. Turkey, Dc=13.2°.
21	eiP	02 30 02.5	Turkey, Dc=22.3°.
21	eiPKP ei	02 33 58 34 09.6	Tonga Islands, Dc=153.5°.
21	iP eiPP	05 13 58.3 18 02.5	C. Philippine Islands, TPV=1.4 s A=72 mu, mPV=6.2, Dc=98.3°.
21	eiPn	11 52 35	Yugoslavia, Dc=7.8°.
21	ei	13 36 24.5	
21	eiP	15 22 46	Turkey, Dc=22.2°.
21	eiP	18 38 55	Turkey - USSR, Dc=22.3°.
21	e	20 02 40	
21	eiP	20 38 10	Ryukyu Islands, Dc=85.0°.
21	eiP	22 41 32.5	Turkey, Dc=22.2°.
22	ePg eiSg	03 42 30 42 51	D=1.6°.
22	ePg eiSg Lm	08 18 44 19 00.5 19 07	D=1.3°.
22	ei	11 05 04	
22	eP	11 22 03	Unimak Islands54.1°N 164.1°W, H=11 10 16, h=80 km (ISC), m=4.5 ISC, Dc=77.2°.
22	iP ipP	14 31 45 33 55.5	D. Sea of Okhotsk, TPV=1.1 s A=56 mu, mPV=5.0, Dc=73.4°.
22	eiSg Lm	15 31 45.5 31 57	

Date	Phase	h m s	Remarks
22	eiPKP	17 20 43.8	New Guinea 1.7°S 134.2°E, H=17 02 05, h=27 km(ISC), m=5.6 ISC, Dc=110.9°.
22	eiPKIKP i ei	18 01 49.3 01 52.4 03 59	Loyalty Islands, Dc=147.7°.
22	eiP	20 41 06	Turkey, Dc=22.1°.
22	eiPKIKP ei	20 51 34.6 51 39	Loyalty Islands, Dc=147.7°.
22	eiP	21 36 40	Persia 25.1°N 61.8°E, H=21 28 31, h=33 km(ISC), Dc=44.4°.
22	eiP	21 54 45.8	Jan Mayen Island, Dc=25.5°.
23	eiPKIKP ei	00 13 17 13 29.5	Loyalty Islands, Dc=147.7°.
23	eiP	01 40 36	Turkey, Dc=21.8°.
23	ePKP	02 01 39	Loyalty Island, Dc=147.7°.
23	eiPKIKP	02 44 17	Loyalty Islands, Dc=147.7°.
23	eiP	05 58 37.5	Bonin Islands 27.7°N 139.8°E, H=05 46 32.6, h=505 km(ISC), m=4.4 ISC, Dc=69.8°.
23	ePg eiSg Lm	10 55 54 56 05 56 11	D=93 km.
23	ePg eiSg Lm	10 55 54 56 05 56 11	D=93 km.
23	eiSg Lm	12 09 42.5 09 56	
23	e	13 30 24	
23	eP	15 14 24	Kamchatka 52.0°N 157.2°E, H=15 02 55.8, h=111 km (ISC), m=4.5 ISC, Dc=74.6°.
23	e	15 54 26.5	
23	ei	15 59 25.5	
23	eiPg iSg Lm	17 00 39.5 00 44.5 00 47	D=42 km.
23	iP ei	18 34 46.4 35 29	C. Ryukyu Islands, TFV=1 s A=54 mu, mFV=5.7, Dc=84.2°.

Date	Phase	h m s	Remarks
23	eiPn ei eiSn ei	19 16 04.5 16 34 17 26.4 18 28.2	France, Dc=6.8°.
23	e	19 31 17	
23	eiPKIKP	22 18 39.5	Loyalty Islands, Dc=147.4°.
23	eiPKIKP ei	22 54 42.5 54 55.6	C. Tonga Islands, Dc=146.8°.
24	ePKP	02 11 41	Kermadec Islands, Dc=159.5°.
24	eiPKIKP	02 39 45.6	Tonga Islands, Dc=148.6°.
24	eiP	02 55 04.5	Tadzhikistan 37.3°N 73.1°E, H=02 46 55, h=9 km (ISC), m=4.7 ISC, Dc=43.9°.
24	ei	03 39 40	Crete 34.8°N 26.8°E, H=03 35 40.0, h=42 km(ISC), Dc=17.3°.
24	eiP ei	07 31 03.2 34 52.6	Northern Crete, Dc=100.3°.
24	e eiSg	12 49 19 49 41	
24	eiPg eiSg	15 32 30 32 41.8	D=1°.
24	ePg eiSg	15 58 43 59 04	D=1.6°.
24	eiPn ei eiSn ei	20 48 46.5 49 13 50 01 51 11	France, Dc=6.8°.
24	eiPKIKP	21 44 48	Tonga Islands, Dc=150.1°.
24	e ei	22 24 52 26 23.4	
25	eiP	00 45 10.5	Japan 32.1°N 132.1°E, H=00 32 51, h=42 km(ISC), m=4.3 ISC, Dc=82.4°.
25	eiPn	06 56 05.5	Yugoslavia 43.1°N 20.5°E, H=06 54 10(BCIS), Dc=7.7°
25	eiPg eiSg	12 03 55.4 03 16.5	D=1.6°.
25	eiPKP	12 05 35.5	Tonga Islands, Dc=149.3°.
25	eP	19 39 29	Kurile Islands, Dc=78.6°.

Date	Phase	h m s	Remarks
26	eiPKIKP eiPKP2	01 11 39.5 12 11	Kermadec Islands, Dc=157.3°.
26	eiP	03 27 24	
26	eiP ei	06 00 49.5 06 58.5	Portugal, Dc=19.3°.
26	ePg eiSg	07 00 07 00 29.6	Explosion of 3.2 Tons, Dc=190 km.
26	eiPKIKP ei	09 26 32 26 40.7	C. Loyalty Islands, Dc=147.1°.
26	eiP ei	09 32 07.5 32 24.7	
26	eP	10 30 11	Alaska, Dc=64.5°.
26	eiPKIKP ei	13 47 52.3 48 11.8	Loyalty Islands, Dc=147.0°.
26	eiPKIKP ei	13 52 02.5 52 14.5	Loyalty Islands, Dc=147.3°.
26	ei eiPg eiSg	15 00 51.5 00 57.5 01 06.4	D=76 km.
26	e eiSg	15 52 48 52 54.5	
26	eiPKIKP	20 55 28	Loyalty Islands 22.2°S 169.9°E, H=20 35 47, h=33 km(ISC), Dc=147.2°.
26	ePKP	22 44 42	Tonga Islands, Dc=153.5°.
27	eP	02 54 35.	
27	eiPKP	03 22 26.5	Tonga Islands, Dc=153.7°.
27	e eiSg	06 12 52 13 30.5	
27	ePKIKP	10 46 28	Tonga Islands, Dc=147.4°.
27	e eiSg	12 58 25 58 51.8	
27	eiP	13 10 58.5	Japan, Dc=80.6°.
27	ei	18 04 32	Kurile Islands 45.8°N 150.0°E, H=17 52 51.6, h=169 km(ISC), Dc=78.1°.

Date	Phase	h m s	Remarks
28	eiPn eiSn ei	04 20 07 21 25.6 22 08.4	C. Yugoslavia, Dc=7.9°.
28	eiPKIKP iPKP2 ei	07 49 22.0 50 13.2 53 55.5	New Zealand, Dc=162.8°.
28	iPKIKP eiPP	10 21 06.3 23 09.4	D. Solomon Islands, Dc=125.0°.
28	eiP ei ei	10 30 48 33 27.8 23 45	
28	eP eipP ei	10 50 44 51 24.2 52 28.4	Hindu Kush, Dc=42.9°.
28	eiPn eiSn	12 42 59.4 44 30	Yugoslavia, Dc=7.4°.
28	eiPKIKP ei ei	13 40 36.7 40 41 41 39	D. Tonga Islands, Dc=148.8°.
28	eiP	15 48 36.7	Japan, Dc=81.6°.
28	eP	17 05 25	
28	eiSg	18 44 18.5	Poland 50.2°N 18.9°E, H=18 42 21, m=2.8 WAR, Dc=3.6°.
29	eiP	13 40 13.7	Kurile Islands, Dc=78.4°.
29	eP	19 44 19	Panama 6.8°N 82.2°W, H=19 31 24.8, h=33 km(ISC), m=4.9 ISC, Dc=88.7°.
29	eiP	22 41 59.5	Kodiak Island 56.1°N 153.5°W, H=22 30 21.3, h=30 km(ISC), m=4.7 ISC, Dc=74.6°.
30	eiP ei	06 19 58.7 20 07	Lake Baikal, TPV=1 s A=11 mu, mPV=4.8, Dc=54.3°.
30	eiP	06 49 25.4	C. Persia 32.1°N 56.1°E, H=06 42 25.3, h=33 km(ISC), Dc=35.9°.
30	eiP	12 53 23.6	Philippine Islands, Dc=90.9°.
30	ePKIKP ei	13 57 24 57 26.7	Tonga Islands, Dc=148.3°.
30	eiP ei ei ei	15 47 17 47 49 48 06 48 22	

Date	Phase	h m s	Remarks
30	iP	20 31 57.0	Alaska, TPV=1.2 s A=60 mu, mPV=5.7, Dc=68.8°.
	i	32 05.7	
	ei	34 31	
30	eP	21 00 05	
31	eiPg	10 15 16.5	Explosion of 7.5 Tons.
	eiSg	15 31	
31	eiPg	11 30 58	D=21 km.
	eiSg	31 00.5	
31	eiPg	11 36 23	D=1.7°.
	eiSg	36 41	
	Lm	36 47	
31	e	12 49 09	
31	eiSg	14 46 32	
31	e	15 44 08	
	eiSg	44 19.5	
	Lm	44 24	
31	e	16 00 52	Explosion of 9.1 Tons, Dc=3.1°.
	eiSg	01 42.5	
31	eiP	18 20 51	C. Jan Mayen Island, Dc=23.8°.
31	e	19 07 59	
	eiSg	08 05	
	Lm	08 08	
31	ePKP	23 55 49	Easter Island Cordillera, Dc=147.9°.

Date	Phase	h m s	Remarks
1	eiP	00 38 12.8	Kurile Islands, 45.9°N 151.5°E, H=00 26 25.4, h= 107 km(ISC), Dc=78.5°.
1	eiP	01 43 44.7	C. Jan Mayen Island, Dc=23.8°.
1	iPg	09 16 37	D=68 km.
	eiSg	16 45	
	ei	16 48	
	Lm	16 50	
1	e(Pg)	09 24 51	
	ei(Sg)	25 08	
	ei	25 17.5	
1	ePg	10 57 39	D=85 km.
	eiSg	57 49	
	Lm	57 55	
1	ePg	10 59 34	D=1°.
	eiSg	59 46	
	Lm	59 54	
1	eiP	12 38 34	Greece, Dc=12.9°.
	ei	39 09	
	Lm	43.4	
1	eiP	14 26 05.5	Greece, Dc=13.2°.
	ei	26 13.5	
	i	26 24.5	
	eiS	28 28	
	Lm	31	
1	eiPKP	15 44 49	Tonga Islands, Dc=151.0°.
	ei	46 14.5	
1	eiPg	16 45 51.5	D=1.6°.
	Sg	46 13	
	Lm	46 26	
1	iP	19 23 13.0	C. Jan Mayen Island, TPV=1.5 s A=68 mu, mPV=5.0, Dc=23.7°.
	ei	23 28	
1	eP	21 33 32	North Atlantic Ocean 58.1°N 32.5°W, H=21 27 39, h=43 km(ISC), m=4.7 ISC, Dc=28.3°.
	ei	35 01	
1	eiPn	23 18 18.5	Italy, Dc=4.4°.
	ei	18 31.5	
	ei	18 51.5	
	eiSn	19 18.5	
	Lm	19 27	
1	eiP	23 30 06.8	Alaska, Dc=68.8°.
	ei	30 20	
2	eiP	00 18 10.8	Uganda 1.0°N 30.2°E, H=00 09 16, h=20 km(ISC), Dc= 50.0°.

Date	Phase	h m s	Remarks
2	eiP	01 06 48	Aleutian Islands, Dc=79.2°.
	ei	06 59	
2	eiP	02 10 25	Kurile Islands, Dc=78.0°.
2	eiPg	10 16 03	D=3°.
	eiSg	16 46.5	
2	eiP	10 49 53	Gulf of Aden, Dc=47.0°.
2	eiPg	12 38 48.5	D=1.1°.
	eiSg	39 03.5	
2	e	12 42 20	
	ei	42 51	
2	e	12 43 29	
	eiSg	43 44	
2	e	13 35 24	
	Lm	35 29	
2	eiPn	14 26 49	Yugoslavia, Dc=8.3°.
	ei	28 12	
	ei	28 39.5	
2	ePg	15 57 00	D=1.1°.
	eiSg	57 15	
	Lm	57 26	
2	eiP	22 57 49	Alaska, Dc=69.8°.
3	eiP	08 23 37.8	Kurile Islands, TPV=1 s A=12 mu, mPV=4.9, Dc=78.9°.
	eiPcP	23 47.5	
3	eiSg	12 00 48.5	
	Lm	01 14	
3	eiPKP	20 04 31.8	Tonga Islands, Dc=150.2°.
	ei	04 41	
4	eiP	01 31 44.5	D. Rumania, Dc=9.5°.
	ei	32 37.5	
	ei	34 56	
4	iP	04 48 38.9	D. Andaman Islands, TPV=1 s A=20 mu, mPV=5.1, Dc=74.0°.
4	eP	22 27 29	Colombia, Dc=85.1°.
5	eiPKP	00 27 34.6	C. Fiji Islands, Dc=151.5°.
	ei	27 44	
	eipPKP	28 33	

Date	Phase	h m s	Remarks
5	eiP	01 47 44.5	
5	eiPKP	07 11 50.8	Solomon Islands 7.5° S 155.9°E, H=06 52 51, h=57 km(ISC), m=4.8 ISC, Dc=127.9°.
	ei	11 59	
5	eP	09 00 16	Aleutian Islands, Dc=78.2°.
5	e	09 18 36	
5	e	12 42 21	
	ei	42 45.5	
5	eiSg	18 14 06.5	
	Lm	14 14	
5	eiPKP	18 17 57	New Hebrides, Dc=140.5°.
5	eP	22 37 18	Greece, Dc=12.3°.
6	eP	06 45 49	Kurile Islands 45.5°N 151.2°E, H=06 33 47.8, h=35 km(ISC), m=4.4 ISC, Dc=78.8°.
6	eiP	12 35 32	C. Dodecanese Islands, Dc=15.7°.
6	eiPn	12 41 03.5	Yugoslavia, Dc=7.9°.
	eiPg	41 40	
	eiSn	42 35	
	eiSg	43 32	
6	eiP	17 55 22.5	Kurile Islands, Dc=78.1°.
6	eP	22 44 18	Aegean Sea 39.3°N 25.1°E, H=22 41 05.7, h=33 km (ISC), Dc=12.8°.
7	ei	03 59 42	Kazakhstan, Dc=40.2°.
7	eiPKIKP	07 58 41.5	Loyalty Islands 21.9°S 170.1°E, H=07 38 57.6, h=34 km(ISC), Dc=177.1°.
7	ei	12 42 47.5	
	eiSg	43 23.5	
7	eiPKIKP	16 14 04.5	Solomon Islands, Dc=125.2°.
7	eP	16 32 13	Japan, Dc=81.2°.
8	eiPg	07 32 56.5	
	ei	33 08	
	Lm	33 25	
8	ei	12 13 18	
8	eiP	12 19 26	C. South Atlantic Ridge, TPV=1.2 s A=14 mu, mPV=4.9, Dc=74.6°.
	ei	20 06.5	

Date	Phase	h m s	Remarks
8	ePg	13 27 34	D=1°.
	eiSg	27 47	
	Lm	27 55	
8	ePg	15 07 04	
	eiSg	07 25	
8	eiPKIKP	16 56 50	Tonga Islands, Dc=149.7°.
	eipPKP2	57 51	
8	iP	21 29 47.1	C. Halmahera, TPV=3 s A=500 mu, mPV=6.7, Dc=104.2°.
	ei	30 08	
	ei	30 39	
	iPP	34 08.0	
8	eiPKP	21 37 06.5	Fiji Islands, Dc=151.9°.
	ei	37 41	
8	iP	22 07 40.0	C. Kurile Islands, Dc=78.7°.
	ei	08 03	
8	eiP	22 43 39.5	D. Aleutian Islands, Dc=77.1°.
8	iPKP	23 17 02.0	C. Tonga Islands, Dc=147.5°.
9	e	06 34 47	
	ei	35 46	
9	eiSg	07 44 45	
	Lm	45 03	
9	eiPg	09 34 40.5	D=1.1°.
	eiSg	34 55	
9	eiPg	10 13 05	D=68 km.
	eiSg	13 13	
	Lm	13 19	
9	eiPn	11 59 28	Corsica, Dc=5.8°.
	ei	12 00 19	
	eiSg	00 31	
9	eiPg	12 07 32.5	D=1.6°.
	eiSg	07 54	
	Lm	08 09	
9	e	12 44 02	
	ei	44 41	
9	ePKP2	12 54 04	Tonga Islands 19.4°S 173.0°W, H=12 34 07.6, h=40 km(ISC), Dc=149.9°.
9	ePg	14 09 49	D=1.7°.
	eiSg	10 12	
9	eP	18 45 46	Vancouver Island, Dc=76.9°.
	ei	45 50	

Date	Phase	h m s	Remarks
9	eiP	18 51 55.5	D. Venezuela, TPV=1.1 s A=17 mu, mPV=5.1, Dc=77.4°.
9	eiP	20 50 36.5	Gulf of Aden, Dc=46.7°.
9	eiP	23 24 05.5	C. Kurile Islands, TPV=1 s A=14 mu, mPV=5.1, Dc=77.4°.
	ei	24 20.5	
10	eiP	00 12 35	Kurile Islands 49.4°N 155.1°E, H=00 00 47, h=33 km (ISC), Dc=76.4°.
10	eP	00 28 49	Kurile Islands 49.5°N 154.6°E, H=00 17 03.0, h=43 km(ISC), Dc=76.1°.
10	iP	02 38 56.6	C. Sea of Okhotsk, TPV=0.7 s A=33 mu, mPV=5.2, Dc=75.7°.
10	eiP	10 14 46	Turkey, Dc=21.7°.
10	ePKIKP	10 38 08	Fiji Islands 15.5°S 179.2°W, H=10 18 25.2, h=33 km (ISC), Dc=144.9°.
10	eiP	10 58 53.5	Dodecanese Islands, Dc=15.9°.
10	eiPKIKP	17 50 49.5	Fiji Islands, Dc=152.3°.
	ei	50 57	
	eipPKP2	53 05.5	
10	eiP	22 09 59.3	C. Mona Passage 19.1°N 67.9°W, H=21 58 49.0, h=53 km(ISC), m=5.2 ISC, Dc=70.3°.
11	ei	01 32 53	
11	e	04 08 37	
11	eiPKP	08 14 33	Tonga Islands 21.4°S 179.3°W, H=07 55 48.6, h=613 km(ISC), m=4.2 ISC, Dc=150.5°.
	ei	16 57	
11	eiP	16 06 07.5	**Burma-India** 26.5°N 95.6°E, H=15 55 21, h=26 km (ISC), m=4.9 ISC, Dc=69.1°.
11	eiP	17 50 09.5	Northern Colombia 6.8°N 72.9°W, H=17 38 04.2, h=168 km(ISC), m=5.7 ISC, Dc=82.6°.
	ei	50 50	
12	eP	09 40 1[illegible]	Greece 40.1°N 20.5°E, H=09 37 38, h=9 km(ISC), Dc=10.2°.
	e	42 07	
12	eIg	11 01 14	D=99 km.
	eSg	01 25	
	Lm	01 32	
12	eiPKIKP	11 49 1[illegible]	D. Loyalty Islands, Dc=148.2°.
	ei	49 36	
	ei	50 45	
	eiPP	52 54	

Date	Phase	h m s	Remarks
12	eiPKIKP	12 59 50.5	D. Loyalty Islands, Dc=148.3°.
12	ePKP ei	13 13 47 14 35	Loyalty Islands 23.2°S 170.0°E, H=12 54 02, h=33 km(ISC), Dc=148.1°.
12	ePKP	13 34 00	Loyalty Islands 22.9°S 170.7°E, H=13 14 14, h=38 km(ISC), Dc=148.2°.
12	ePKP	14 22 41	Loyalty Islands 23.0°S 170.4°E, H=14 02 57.5, h=40 km(ISC), Dc=148.1°.
12	eiPKIKP	14 25 03.5	Loyalty Islands, Dc=148.1°.
12	ePKP	14 29 59	Loyalty Islands 23.1°S 170.6°E, H=14 10 14, h=12 km(ISC), Dc=148.3°.
12	ei	15 25 44	
12	ei	15 37 44	
12	eiP e	16 53 28 54 49	Northern California, Dc=82.8°.
12	e	21 12 21	
13	eiPKIKP iPKP e	01 10 23 10 27.5 12 31	Loyalty Islands, Dc=148.3°.
13	ePKIKP	03 04 42	Loyalty Islands, Dc=148.1°.
13	eiPKIKP	09 58 40.5	Loyalty Islands, Dc=148.3°.
13	eiP	10 00 06.5	D.
13	ePKP	11 29 23	Loyalty Islands 23.0°S 170.8°E, H=11 09 33.5, h=0 km(ISC), Dc=148.5°.
13	ePn ei eiSg	13 00 32 01 24 01 [illegible].5	Poland, D=3.7°.
13	ePg eiSg Lm	13 34 24.5 34 41 34 37.5	D=1.3°.
13	eP	17 04 58	
13	eiPg iSg Lm	17 36 39 36 43.5 36 46	D=39 km.
13	eiP ei	20 28 37.5 29 28	Turkey, Dc=21.8°.

Date	Phase	h m s	Remarks
13	eiPKP ei	23 13 53.5 14 06	Tonga Islands, Dc=153.9°.
13	eP	23 58 45	Philippine Islands 9.4°N 126.1°E, H=23 45 16, h=68 km(ISC), m=5.2 ISC, Dc=97.2°.
14	ePKIKP	00 32 11	Loyalty Islands, Dc=148.3°.
14	eiPKIKP	00 40 44	Loyalty Islands, Dc=148.3°.
14	eP	00 55 50	Arabian Sea, Dc=49.2°.
14	e	03 57 55	
14	ePg iSg	08 11 13 11 14	D=8.5 km.
14	iPg iSg Lm	11 28 37 28 42.5 28 47	D=46 km.
14	e eiSg	16 45 32 46 20.5	
14	eiP ei eiPKIKP eiPP eiScSP	23 33 41 36 58 37 19.5 38 15 48 03	South Sandwich Islands, Dc=114.0°.
15	iPn iPg eiSn	00 11 23.5 11 32 11 56	Austria, Dc=2.9°.
15	e e	02 04 50 06 23	
15	ePKIKP	03 53 42	Loyalty Islands 22.8°S 170.8°E, H=03 33 58, h=4.2(NOU), Dc=148.1°.
15	ePKP ei	04 26 57 27 10	Tonga Islands, Dc=153.7°.
15	eiP	11 54 18.5	Crete, Dc=16.5°.
15	eP	12 11 10	South Sandwich Islands, Dc=113.8°.
15	eP	12 41 15	Greece 39°N 21 1/4°E, H=12 38 27(ATH), Dc=11.5°.
15	eiPKIKP	14 34 13.5	Loyalty Islands, Dc=148.1°.
15	iP ei eiPP	17 23 13.5 24 42 26 27	C. Taiwan Region, TIV=1.4 s A=28 mu, mPV=5.3, Dc=83.9°.

Date	Phase	h m s	Remarks
15	eiP	17 37 12.5	Taiwan, Dc=83.9°.
16	eP	02 14 32	Taiwan, Dc=84.0°.
16	iP	13 00 13.7	C. Unimak Island, TPV=1 s A=35 mu, mPV=5.4, Dc=77.2°.
16	eiPg eiSg	11 00 20 00 39.5	D=1.5°.
16	eiPKIKP	13 31 38.5	Loyalty Islands, Dc=148.2°.
16	eiPKIKP	15 14 13	Samoa Islands, Dc=147.0°.
16	eiP eiPcP	17 22 33 22 43.5	C. Unimak Island, TPV=1.2 s A=25 mu, mPV=5.2, Dc=77.3°.
16	eiPKIKP	17 24 33.5	New Hebrides 18.6°S 169.0°E, H=17 05 24.8, h=217 km(ISC), m=4.9 ISC, Dc=143.6°.
17	e ei	09 59 03.5 59 27	
17	ePg eiSg	12 44 36 44 57.5	D=1.6°.
17	ePKIKP ei	20 37 19 37 51	Kermadec Islands, Dc=157.5°.
17	eiPKP ei	21 24 54.2 24 01.5	Tonga Islands, Dc=150.6°.
18	eiP ei	00 47 31 47 53.5	Japan, Dc=82.2°.
18	ePg eiSg Lm	04 14 05.5 14 13.5 14 18.5	D=68 km.
18	eiP	05 34 27	C. Japan, TPV=0.7 s A=22 mu, mPV=5.3, Dc=78.7°.
18	eP	12 07 28	Arabian Sea, Dc=50.9°.
18	eiP ei	14 27 23 27 34	D. China, Dc=72.2°.
18	eiP	19 56 54	Taiwan, Dc=83.8°.
18	iP ei ei	20 51 09.5 51 36 57 12	C. Persia, TPV=1.1 s A=376 mu, mPV=6.0, Dc=37.7°.
19	ePKIKP	03 56 36	Loyalty Islands, Dc=148.3°.

Date	Phase	h m s	Remarks
19	eiP	04 35 53	Kurile Islands, Dc=148.3°.
19	eiP	05 14 53	China, Dc=68.3°.
19	ei	11 20 22	
19	ei ei	13 28 15 28 24	
19	ePKP	21 22 50	Loyalty Islands 22.3/4°S 170.3/4°E, H=21 03 02, m=4.1(NOU), Dc=148.3°.
19	eiPKP e	21 35 51 36 01	Loyalty Islands, Dc=148.2°.
20	eP	06 25 45	Aleutian Islands 52.5°N 173.3°E, H=06 13 52, h=31 km(ISC), m=4.6 ISC, Dc=77.3°.
20	eiPKIKP	06 57 45	Tonga Islands, Dc=147.7°.
20	eiPg eiSg	13 45 52 45 57.5	D=42 km.
20	eiPg eiSg	14 14 46 15 17	D=2.5°.
20	eiPKIKP eiPKP2	17 51 56 52 26	Kermadec Islands, Dc=157.7°.
20	eiP ei	20 44 43.5 44 56.5	C. Kurile Islands, Dc=79.2°.
20	eiPKP	23 37 51.5	Samoa Islands.15.5°S 172.8°W, H=23 18 17, h=60 km (ISC), m=4.5 ISC, Dc=146.1°.
20	ei	23 48 23	Burma - China, Dc=68.4°.
22	e?	00 16 02.5	C. Kamchatka, TPV=1 s A=40 mu, mPV=5.4, Dc=74.6°.
22	eiP	04 27 41.5	Japan, Dc=81.0°.
22	Lg eiSg Lm	08 00 19.8 00 22.8 00 25	D=25 km.
22	ePg eiSg Lm	13 54 12 54 19 54 24	D=60 km.
22	ei	19 09 57	Nevada 37.5°N 114.1°W, H=18 57 35, h=13 km(ISC), m=5.0 ISC, Dc=82.1°.
22	eiPP ei	21 54 56 55 10	Samoa Islands, Dc=147.7°.
22	ei	22 03 35	China, Dc=71.3°.

Date	Phase	h m s	Remarks
23	eiP ei e	01 41 51 42 05.5 45 15	C, Kurile Islands, TPV=2.5 s A=206 mu, mPV=5.7, Dc=79.3°.
23	eiP	02 18 35	C. Kamchatka, TPV=1 s A=24 mu, mPV=5.2, Dc=74.3°.
23	eiP	07 40 31	Crete, Dc=16.0°.
23	ei	12 40 59	
23	eiP	20 44 56.8	Crete, Dc=17.8°.
23	eP ei	23 50 48 51 10.5	Greece 38.6°N 21.7°E, H=23 47 58.1, h=47 km(ISC), m=4.6 ISC, Dc=12.0°.
24	eiP ei	10 08 03.6 08 20.8	Persia, Dc=38.2°.
24	eiPKIKP	17 08 03	Loyalty Islands, Dc=148.1°.
24	eP	20 24 16	Greece, Dc=12.7°.
25	eiP ei	06 15 27 15 48.6	D. Mexico, Dc=91.2°.
25	eP	06 22 43	Japan, Dc=80.8°.
25	eiPKIKP	16 52 40.4	Loyalty Islands, Dc=146.7°.
25	eiPKP ei	08 56 03.2 56 12.4	Loyalty Islands, Dc=147.8°.
25	eiP	20 31 16.8	C. Kamchatka, TPV=1 s A=55 mu, mPV=5.5, Dc=74.2°.
26	eiP	00 01 21.6	Japan, TPV=1.1 s A=14 mu, mPV=4.9, Dc=83.4°.
26	e	01 07 30	
26	eiP ei	04 35 20.4 37 21	Taiwan, Dc=82.3°.
26	iP	05 21 21.8	C. India - China, TPV=1.2 s A=39 mu, mPV=5.4, Dc=146.1°.
26	e(P)	09 30 41	Mediterranean Sea 36.6°N 20.0°E, H=09 27 25.8(ISC), Dc=13.3°.
26	eP	19 15 35	Japan 36.5°N 138.2°E, H=19 03 18, h=20 km(ISC), m=4.2 ISC, Dc=81.6°.
26	eiP	19 52 05	Burma 15.6°N 96.2°E, H=19 40 32.9, h=33 km(ISC), m=4.8 ISC, Dc=73.6°.

Date	Phase	h m s	Remarks
27	eP	10 58 22	Greece 37.0°N 27.2°E, H=10 54 53.0, h=42 km(ISC), m=4.8 ISC, Dc=14.4°.
27	eiPg eiSg Lm	11 01 56 01 58.4 02 00	D=21 km.
27	eP	15 12 33	Svalbard, Dc=27.3°.
28	eiP	01 00 16	Kurile Islands 44.6°N 148.9°E, H=00 78 16, h=32 km (ISC), m=4.2 ISC, Dc=78.8°.
28	eiP	11 04 26	Gibraltar 35.8°N 4.5°W, H=11 00 09.5(LDD), Dc=18.8°
28	ei ei	11 56 12.4 58 08	
28	eiPKIKP	12 08 32	Fiji Islands, Dc=144.9°.
28	eiPg eiSg	12 29 19 29 37.5	D=1.4°.
28	e ei	12 44 52 45 19	
28	eiP i ei ei	14 11 17.2 11 25.0 12 07.4 15 34.2	D. China, Dc=67.5°,
29	eiPKIKP i eipPKIKP	03 03 35.8 03 41.7 04 44.3	Tonga Islands, Dc=149.9°.
29	e	09 52 25	
29	e	10 57 49	
29	e	14 39 22	
29	ei ei	15 46 11.5 49 12.7	
29	eiP	17 51 49	Persia 27.8°N 54.4°E, H=17 44 37, h=46 km(ISC), m=4.8 ISC, Dc=37.8°.
30	eiP	06 07 05.3	Turkmeniya, Dc=37.4°.
30	iPg iSg Lm	09 00 21.0 00 29 00 31	D=68 km.
30	e iSg	10 22 32.4 22 36.2	Explosion of 9.6 Tons, Dc=30 km.
30	e eiSg	11 01 19 01 51.3	

Date	Phase	h m s	Remarks
30	eiPg eiSg	12 36 08.4 36 17.5	D=76 km.
30	e	12 44 21	
30	eiPg eiSg	14 46 37 46 55	D=1.4°.
30	eiPg iSg	15 03 21 03 22.7	D=1°.
30	eiPKIKP	15 22 02	Tonga Islands, Dc=148.3°.
30	eiPKP	15 48 [illegible].7	Tonga Islands, Dc=147.4°.

Date	Phase	h m s	Remarks
1	eiKIKP	06 32 06	Samoa Islands 15.3°S 172.5°W, H=06 12 31.6, h=35 km(ISC), m=4.3 ISC, Dc=146.1°.
1	ei	07 46 35.5	Afghanistan, Dc=44.0°.
1	eiPg eiSg	11 34 51 35 15.5	Explosion of 18.3 Tons, Dc=1.5°.
2	eiP ei	02 36 04.7 36 35.5	China 43.8°N 125.0°E, H=02 24 53, h=5 km(ISC), m=4.5 ISC, Dc=69.8°.
2	eiP i	07 35 38.7 35 41.0	Aleutian Islands, Dc=79.3°.
2	iP ei	11 23 [illegible].0 25 07	D. Rumania, Dc=9.4°.
2	eiP	12 20 03.4	Aleutian Islands, Dc=79.3°.
2	eiPKIKP	20 01 49.7	Macquarie Island, Dc=147.4°.
3	eiPg iSg	20 27 58.5 28 22.3	Austria, Dc=1.7°.
3	ePg eiSg	21 13 01 13 24.5	D=1.8°.
3	eiPg eiSg	21 18 08.5 18 31	D=1.8°.
3	ePg eiSg	21 25 39 28 03.5	D=1.8°.
3	ePg eiSg	22 40 57.5 41 22	D=1.8°.
4	eiPg eiSg	14 22 25.4 22 48.7	D=1.7°.
4	eiPKP	16 19 08.5	Macquarie Island, Dc=147.3°.
4	ei	07 08 23	
4	eiP	21 19 39.5	
4	e	19 55 18	
6	e eiSg	07 42 35 42 54	
6	eP ei	07 53 23 53 45.7	Turkey, Dc=22.4°.

Date	Phase	h m s	Remarks
6	eiPg	11 07 44	D=34 km.
	eiSg	07 48	
	Lm	07 50.5	
6	eiPg	12 54 09.5	D=1.3°.
	eiSg	54 26.7	
	Lm	54 35	
6	eiP	14 00 18	Kamchatka, TPV=1.1s A=18 mu, mPV=5.1, Dc=75.7°.
	ei	00 30.6	
7	eiPg	09 29 03.7	Explosion? D=51 km.
	iSg	29 09.8	
	Lm	29 13	
7	ePg	13 10 29	D=1.1°.
	eiSg	10 43.5	
	Lm	10 46	
7	eiSg	13 14 46	
	Lm	14 48	
7	eiPn	14 05 39	Explosion of 12.4 Tons, Eschenlohe, Dc=2.4°.
	ei	05 42.8	
	eiSn	06 07.5	
	ei	06 12.6	
7	ei	15 05 52.2	Explosion of 8.4 Tons, Germany, Dc=2.7°.
	ei	06 24.8	
	eiSg	06 30	
7	e	15 39 20	
	Lm	39 22.5	
7	iPKIKP	16 14 32.5	C. Loyalty Islands region, Dc=147.0°.
	i	15 21.5	
	iPP	17 56.5	
	eiPPP	21 14.5	
	eiSKKS	24 37	
	eiSKSP	28 02	
7	iP	21 06 56.6	D. Southern Alaska, TPV=1.1 s A=112 mu, mPV=6.0, Dc=68.8°.
	ei	07 17	
	ei	08 07.5	
8	eiPKIKP	00 31 55.7	Tonga Islands, Dc=146.3°.
	ei	32 29.5	
8	eiPKIKP	02 41 14.6	Tonga Islands, Dc=149.5°.
	eiPKP	41 19.7	
8	eiPKIKP	02 53 51.5	Tonga Islands, Dc=146.2°.
	ei	54 09	

Date	Phase	h m s	Remarks
8	eiP	03 18 14	D. Kodiak Island, Dc=72.7°.
8	eiP	04 10 07.6	D.
8	ei	11 30 11	
	ei	30 58.5	
8	eP	12 14 29	Japan, Dc=83.5°.
	ei	14 40	
8	e	13 20 32	
8	iPKIKP	15 02 44	C. Fiji Islands, Dc=145.4°.
8	eiP	17 56 00.5	C. Aleutian Islands, TPV=1 s A=38 mu, mPV=5.4, Dc=79.4°.
	ei	56 49.8	
8	eP	19 51 02	Venezuela, Dc=72.9°.
8	eiP	21 09 33	Kurile Islands 46.2°N 153.0°E, H=20 57 31, h= 21 km(ISC), m=4.3 ISC, Dc=78.7°.
9	eiPKIKP	02 25 05.5	Tonga Islands, Dc=147.3°.
	i	25 09.7	
	ei	26 02.5	
9	ei	06 12 47	
9	eiP	06 56 08.8	D. Sudan, TPV=1.1 s A=59 mu, mPV=5.1, Dc=39.1°.
	ei	57 49	
	ei	07 01 12	
	Lm	07 36.5	
9	eP	08 23 15	Gulf of California, Dc=87.5°.
9	eiP	10 35 51.7	Sudan, Dc=39.2°.
	eiPP	37 26.4	
10	eiP	07 05 13.5	Kurile Islands 44.5°N 149.2°E, H=06 53 11.1, h= 26 km(ISC), m=4.4 ISC, Dc=79.0°.
10	eiP	21 28 51	Alaska, TPV=1.1 s A=23 mu, mPV=5.2, Dc=70.9°.
11	eiPKIKP	00 18 02.5	Samoa Islands, Dc=146.3°.
11	eiPn	02 57 45.8	Albania, Dc=8.8°.,
	ei	58 25.8	
	eiSn	59 22.2	
11	eiPg	03 30 31	Austria, Dc=1.6°.
	iSg	30 54.5	
11	ei	06 44 08	South Sandwich Islands, Dc=113.8°.
	eiPP	45 34.5	

Date	Phase	h m s	Remarks
11	eP	1. 17 29	China, Dc=69.5°.
	ei	18 02.5	
11	e	10 49 28.5	
11	e	12 46 04	
11	e	21 00 52.5	Kermadec Islands, Dc=101.2°.
	eiPP2	01 25	
12	eiPP	00 25 10.4	Timor, Dc=110.5°.
	eiP	25 52	
12	ei	00 36 06.5	
12	eP	03 30 30.5	Southern Alaska 60.3°N 144.9°W, H=03 19 24, h= 33 km(ISC), m=4.5 ISC, Dc=69.5°.
12	ei	04 42 21	Kermadec Islands, Dc=100.2°.
	e	42 45	
	eiPP2	42 55	
12	eiPg	06 04 54.5	
	eiSg	05 29.5	
12	ePKP	09 18 01	Tonga Islands 17.5°S 173.7°W, H=08 59 26.2, h= 591 km(ISC), m=4.4 ISC, Dc=147.3°.
12	eiPg	12 02 37	D=40 km.
	eiSg	02 42.5	
12	eiPg	12 45 41.5	
	eiSg	46 25.4	
13	eiP	01 27 52.5	Dodecanese Island, Dc=16.0°.
13	eP	02 27 00.5	Gulf of Alaska, Dc=70.4°.
13	ePg	09 00 20	
	eiSg	00 25.6	
	Lm	00 31	
13	eiPg	10 14 15.5	D=68 km.
	eiSg	14 23.7	
	Lm	14 28	
13	ePg	11 42 16	D=102 km.
	eiSg	42 28	
	Lm	42 33	
13	ePg	13 00 29	D=2°.
	eiSg	00 55.2	
	Lm	00 14	
13	eP	15 58 22	**Peru-Brazil** , Dc=95.1°.

Date	Phase	h m s	Remarks
13	eiP	18 56 35	Aleutian Islands, Dc=78.6°.
14	eiP	01 14 05	D. China, TPV=1.4 s A=32 mu, mPV=5.2, Dc=53.6°.
	i	14 09.3	
	ei	15 11.5	
	ei	17 07	
14	eP	01 20 24	China, Dc=47.2°.
14	eP	02 00 39	Mona Passage, Dc=70.1°.
14	eiPKIKP	02 52 09	Tonga Islands, Dc=145.6°.
	ei	52 19	
14	eiP	04 13 59	Albania 41.4°N 20.1°E, H=04 11 49.7, h=33 km(ISC). Dc=9.0°.
14	e	10 02 17	
	eiSg	02 27.2	
14	eiPg	12 55 36.7	D=2.1°.
	eiSg	56 04	
14	eiPg	14 35 32	D=1.4°.
	iSg	35 50.8	
15	iP	07 01 32.5	D. **Rumania** 45.6°N 26.4°E, H=06 59 19.2, h=140 km (ISC), m=4.7 ISC, TPV=1.3 s, A=168 mu, mPV=5.5, Dc=9.4°.
	ei	02 34.7	
	ei	03 52.5	
15	eiPKIKP	08 49 28	Tonga Islands, Dc=147.5°.
	i	49 31.6	
15	eiP	16 12 07.3	C. Japan, Dc=79.1°.
	ei	12 16.5	
15	ePKP	20 54 45.	Tonga Islands, Dc=153.3°.
	ei	55 13.8	
16	eiP	02 42 03.6	**Rumania** 45.6°N 26.6°E, H=02 39 50.3, h=128 km(ISC), Dc=9.4°.
16	ePg	09 08 04	D=2.4°.
	eiSg	08 34.4	
16	eiP	09 26 23	Japan, Dc=89.4°.
	ei	26 54.2	
16	eiPn	09 50 06.5	Italy, Dc=7.1°.
	eiSn	51 27	
	eiSg	52 23	
17	ePKIKP	10 35 01.5	Santa Cruz Islands, Dc=135.9°.
	eiPP	37 43	

Date	Phase	h m s	Remarks
17	eiP	13 21 39	Alaska 53.0°N 163.8°W, H=13 09 41.0, h=39 km(ISC),
	ei	21 51	m=4.8 ISC, Dc=78.2°.
17	eiPg	14 16 49	D=45 km.
	eiSg	16 54.2	
	Lm	16 57	
17	eiPKP	15 00 36.2	Tonga Islands, Dc=151.2°.
	ei	01 08	
17	eiPKIKP	18 38 45	Fiji Islands, Dc=150.9°.
	i	38 51.5	
	i	39 02.6	
	eipPKP	41 18.3	
17	eiP	21 55 36.5	Peru, Dc=99.5°.
	i	55 42	
	ei	56 27.2	
	eiPP	59 45.6	
18	eiPKIKP	04 21 56.8	D. Fiji Islands, Dc=151.7°.
	ei	22 03.5	
	ei	22 16.2	
18	eiPKIKP	11 17 21.3	Tonga Islands, Dc=147.3°.
18	eiP	18 56 23.5	Colombia, TPV=1.2 s A=16 mu, mPV=5.1, Dc=86.0°.
18	eiPKIKP	22 47 01.8	Samoa Islands, Dc=145.3°.
19	iP	04 05 42.5	C. Kazakhstan, TPV=1.1 s A=59 mu, mPV=5.2, Dc=
	eiPP	07 12.2	40.7°.
19	eiP	08 11 12.2	Ascension Island, TPV=1.2 s A=181 mu, mPV=6.0,
	i	11 24.0	Dc=56.3°.
	ei	12 49.8	
	eiS	19 17	
19	e	09 01 46.5	
	eiSg	01 49	
19	eiPKIKP	11 41 13.5	Santa Cruz Islands, Dc=137.4°.
19	e	12 47 20	D=1.7°.
	eiPg	47 24	
	eiSg	47 47	
	Lm	48 11	
19	eiPg	14 13 33	D=42 km.
	eiSg	13 38	
19	eP	14 41 24	Colombia 2.8°N 78.7°W, H=14 25 27.8, h=32 km(ISC),
	ei	41 36.2	m=4.8 ISC, Dc=89.4°.
19	e	16 02 01	
	eiSg	02 05.3	
	Lm	02 08	

Date	Phase	h m s	Remarks
19	eiP	19 37 23.7	Kamchatka, TPV=0.8 s A=13 mu, mPV=5.1, Dc=75.8°.
19	eiP	19 48 09	Kamchatka, Dc=75.8°.
	ei	48 20.5	
19	eiP	20 47 24.5	Kamchatka, Dc=76.0°.
	ei	47 35.2	
20	eP	01 02 27	Kazhmir - Tibet, Dc=49.8°.
	eiPP	04 32	
20	eiPn	05 00 07.2	Yugoslavia, Dc=6.5°.
	eiSn	01 21	
20	ePg	09 04 00	D=85 km.
	eiSg	04 10	
	Lm	04 15	
20	ePn	09 39 50	Italy, Dc=5.1°.
	eiPg	40 15	
	ei	40 35.5	
	eiSg	41 27	
20	ePg	12 58 33	D=51 km.
	eiSg	58 39	
	Lm	58 42	
20	eiPKIKP	13 55 04	New Hebrides, Dc=140.3°.
20	ePg	15 11 42	D=60 km.
	eiSg	11 49	
	Lm	11 52	
21	e	12 45 54	
	eiSg	46 07	
21	e	13 37 02	
	eiSg	37 19.8	
	Lm	37 26	
21	ePg	14 59 35.4	D=43 km.
	eiSg	59 40.4	
	Lm	59 43	
21	eiPg	15 09 29	D=51 km.
	eiSg	09 35	
21	eiPg	16 19 39	Greece, Dc=11.4°.
	ei	19 44	
	ei	23 54.5	
22	eiP	03 14 11.6	Burma - India, TPV=1.1 s A=16 mu, mPV=4.9, Dc=67.0°.
22	eP	05 40 41	Greece 42.0°N 23.1°E, H=05 38 24, h=13 km(ISC), m=
	ei	43 39.5	4.7 ISC, Dc=9.8°.

Date	Phase	h m s	Remarks
22	eiPg	09 00 50.5	D=1.9°.
	eiSg	01 15	
22	eiP	12 58 42.3	D. Kamchatka, TPV=1 s A=59 mu, mPV=5.7, Dc=72.8°.
	ei	58 55.4	
22	ei	13 41 14.7	
23	eiP	07 21 05	Kamchatka, TPV=0.9 s A=59 mu, mPV=5.7, Dc=75.9°.
23	eiP	12 27 03	C. Kamchatka, TPV=1.1 s A=23 mu, mPV=5.2, Dc=75.8°.
	ei	27 44	
24	eiPg	07 15 17	D=1.1°.
	eiSg	15 32	
24	eiP	14 05 17	Komandorsky Islands, Dc=73.9°.
24	eiP	14 38 08.3	Persia, Dc=35.0°.
24	ePg	14 51 54	D=1.5°.
	eiSg	52 14	
24	eiP	18 58 28.5	Ryukyu Islands, Dc=85.9°.
25	e	09 02 16	
	eiSg	02 45.5	
25	eiP	10 15 21	West Pakistan, Dc=45.6°.
25	ePg	12 46 33	D=1°.
	eiSg	46 46.5	
	Lm	46 53	
25	ePKIKP	12 58 28	Fiji Islands, Dc=145.7°.
25	ePg	13 15 20	D=60 km.
	eiSg	15 27	
	Lm	15 30	
25	ePg	14 14 35	D=55 km.
	eiSg	14 41.5	
25	eiP	18 16 27.5	Japan, TPV=1 s A=32 mu, mPV=5.3, Dc=81.5°.
26	eiPg	06 59 09	D=1°.
	eiSg	59 21.8	
26	e	09 14 23	
26	ePg	10 00 22	D=1.4°.
	eiSg	00 43	
26	ei	11 00 16.5	

Date	Phase	h m s	Remarks
26	ePg	13 02 22	D=2.1°.
	eiSg	02 50	
26	eiPg	13 38 46	Explosion of 12 Tons.
	eiSg	39 15.5	
26	e	14 10 27	
	eiSg	10 45	
26	eiPKP	18 48 21.5	New Hebrides, Dc=142.7°.
	i	48 29	
26	eiP	19 35 26.5	Crete, Dc=17.1°.
27	iP	06 04 12.0	Novaya Zemlya, Dc=30.1°.
	i	04 37.0	
	ei	06 16.9	
	ei	08 35	
	ei	11 46	
27	eiP	06 36 05	
27	ePg	07 47 59.8	D=1.6°.
	eiSg	48 22	
27	ePg	12 58 45.5	D=60 km.
	eiSg	58 52.8	
	Lm	58 56	
27	e	13 27 54	Explosion of 12.1 Tons.
	ei	28 33.8	
27	ePg	14 01 56	D=2.6°.
	eiSg	01 32	
27	eiP	14 34 36.2	D. North Pacific Ocean, TPV=1.8 s A=147 mu, mPV=
	ei	35 18	6.3, Dc=97.3°.
	eiPP	38 31.7	
	ei	39 18.2	
27	eiP	23 58 45.4	C. Japan, TPV=1 s A=32 mu, mPV=5.2, Dc=78.9°.
	ei	59 05	
28	eiPg	09 45 34	Explosion of 8 Tons.
	eiSg	45 46.8	
	Lm	45 51	
28	e	11 21 10	
	eiSg	21 17.2	
	Lm	21 21	
28	ePg	12 53 05	D=2°.
	eiSg	53 31	
28	eiP	13 32 46	C. Japan, TPV=1 s A=19 mu, mPV=5.0, Dc=83.1°.

Date	Phase	h m s	Remarks
28	eiP	15 45 05.8	Greece 39.2°N 21.1°E, H=15 42 17.7, h=0 (ISC), Dc=11.3°.
28	eiP	17 46 53.2	Kamchatka, TPV=0.7 s A=17 mu, mPV=5.3, Dc=75.8°.
28	eiP	18 41 50	
28	ei	20 41 50	
28	eiPKP	22 31 23	New Hebrides, Dc=144.8°.
28	eiPKIKP	23 43 58.5	C. Loyalty Islands, Dc=147.9°.
29	eiP	00 57 25.2	C. Kamchatka, TPV=0.7 s A=20 mu, mPV=5.4, Dc=75.8°.
29	ePKIKP	01 16 12	Loyalty Islands 20.1°S 168.9°E, H=00 56 37.0, h=33 km(ISC), Dc=145.0°.
29	iP i iS i	02 42 11.6 42 33 44 21.2 46 09.0	D. Greece, Dc=11.6°.
29	eiPKP	05 30 12	Tonga Islands, Dc=151.0°.
29	eP	05 59 59.5	Japan, Dc=79.6°.
29	eiP	06 42 28	Japan, Dc=79.6°.
29	eiPKIKP	07 27 24.6	Solomon Islands, Dc=127.0°.
29	eiP ei	09 07 51.6 08 04.5	Pakistan, Dc=45.1°.
29	ePKP	10 58 06	Loyalty Islands 20.1°S 168.6°E, H=10 38 30.1, h=18 km(ISC), Dc=144.8°.
29	eiP	12 17 09.2	Mediterranean Sea, TPV=1 s A=16 mu, mPV=4.2, Dc=17.7°.
29	eiP	14 44 46.2	C. Japan, TPV=1.1 s A=47 mu, mPV=5.2, Dc=79.6°.
29	eP	14 54 45	Hindu Kush, Dc=42.1°.
29	eP	17 53 51.5	Greece 38.8°N 21.0°E, H=17 51 01.8, h=34 km(ISC), Dc=11.6°.
30	ePKP	00 21 55	Fiji Islands, Dc=150.6°.
30	eP	02 13 04.5	Greece, Dc=11.9°.
30	eP	05 15 00.5	Lake Tanganyika 3.6°S 30.0°E, H=05 05 35.2, h=33 km(ISC), m=5.2 ISC, Dc=54.4°.
30	eiP	05 18 40	
30	eiP	17 44 53.5	Eastern Caucasus, Dc=23.2°.

Date	Phase	h m s	Remarks
30	e ei	17 52 33 53 04.8	
30	eP	19 16 39	Japan 35.6°N 140.6°E, H=19 04 16.2, h=60 km(ISC), m=4.6 ISC, Dc=83.4°.
31	eiPg eiSg	03 20 37.6 21 12.4	D=1.1°.
31	ei(P) ei	17 30 02.4 30 20	Southern Nevada 37.2°N 114.4°W, H=17 18 18.4, h=33 km(ISC), Dc=82.5°.
31	eiP	18 35 03	Mona Passage, Dc=70.0°.

Date	Phase	h m s	Remarks
1	iP	07 12 47.0	Japan 43.1°N 143.5°E, H=07 01 00.6, h=132 km(ISC),
	ipP	13 20.2	m=5.2 ISC, TPV=0.7 s A=83 mu, mPV=5.6, Dc=78.1°.
	ei	14 03	
1	ePg	12 58 55	D=1.4°.
	eiSg	59 13	
1	e	15 12 00	
	eiSg	12 04	
	Lm	12 07	
1	eiPKIKP	17 04 41	Samoa Islands 15.2°S 172.9°W, H=16 45 03.4, h=
			33 km(ISC), m=4.6 ISC, Dc=145.6°.
1	eP	22 26 04	Crete, Dc=15.8°.
2	ePg	11 14 44	D=1.5°.
	eiSg	15 04.2	
3	ePKHKP	03 48 20	New Hebrides 15.1°S 167.5°E, H=03 29 13.4, h=
			126 km(ISC), m=4.8 ISC, Dc=139.9°.
3	ePg	07 13 27	D=1°.
	eiSg	13 40	
3	eiP	11 48 33.5	Mona Passage, TPV=1.1 s A=23 mu, mPV=5.6, Dc=70.2°
3	e	12 32 58	
	eiSg	33 42	
3	ePg	14 00 32	D=51 km.
	eiSg	00 38	
	Lm	00 41	
3	eiP	16 35 44	D. Mona Passage, TPV=0.7 s A=83 mu, mPV=6.0, Dc=
			70.2°.
3	eiP	21 52 59	Carlsberg Ridge, TPV=1.2 s A=25 mu, mPV=5.1, Dc=
			57.8°.
4	ei	07 34 02	
4	eiPn	17 33 57.5	Austria, Dc=2.3°.
	iSg	34 29	
5	eiPKIKP	02 49 47.7	New Hebrides, Dc=144.3°.
	ei	50 24.9	
5	eiSg	09 32 31.5	Explosion of 9.4 Tons, Dc=129 km.
	Lm	32 43	
5	ei	12 00 37.7	
	eiSg	01 12.8	

Date	Phase	h m s	Remarks
5	iPKIKP	13 04 50.0	Tonga Islands, Dc=145.4°.
	ei	05 01	
5	eiPKP	14 01 48	Loyalty Islands, Dc=148.7°.
	ei	02 05.8	
5	eP	19 02 46	Nepal, Dc=56.6°.
6	eiP	04 02 09.8	C. Kurile Islands, TPV=1.1 s A=14 mu, mPV=5.0, Dc=
			78.9°.
6	eiP	08 34 53.8	North Atlantic Ocean, Dc=26.9°.
6	eiPn	18 53 36.2	Yugoslavia, Dc=7.9°.
	eiSn	55 07.5	
6	eiPKP	20 05 57	Tonga Islands, Dc=149.7°.
7	eiP	04 17 15.6	Tibet, Dc=51.0°.
7	ePg	09 30 40	D=55 km.
	eiSg	30 46.4	
7	eiPKIKP	17 57 17.8	C. Tonga Islands, Dc=146.0°.
	ei	57 30	
8	eP	03 20 19	Persia 36.1°N 50.7°E, H=03 14 12.8, h=41 km(ISC),
			m=4.6 ISC, Dc=30.0°.
8	eiP	11 47 49.8	C. Aleutian Islands, TPV=1 s A=11 mu, mPV=4.9, Dc=
	i	47 59	77.2°.
8	eiPg	13 12 31	D=26 km.
	iSg	12 33.8	
8	ePn	14 24 49	Yugoslavia, Dc=6.9°.
8	ePg	14 51 34	
	eiSg	51 52.6	
8	eiPKIKP	16 56 06.8	Loyalty Islands, Dc=147.8°.
9	eiPg	08 59 44	D=1.1°.
	eiSg	59 57.2	
9	eiP	11 38 49.7	Taiwan, Dc=83.2°.
9	eiPg	12 00 14.6	D=42km.
	iSg	00 19.5	
	Lm	00 22	
9	e	12 50 56	
	eiSg	51 24	

Date	Phase	h m s	Remarks
9	eiP	14 21 46	Aleutian Islands, Dc=79.1°.
9	eP ei	15 15 01 17 37.8	Greece - Albania, Dc=11.1°.
9	e	19 31 05	
9	eP	22 06 50	Mona Passage, Dc=70.2°.
10	ePKP ei	03 20 38.5 21 03.5	Argentina, Dc=108.6°.
10	eiPg iSg Lm	07 30 10.6 30 17.4 30 22	D=60 km.
11	eSg	30 48 12	Poland 50.2°N 19.1°E, H=03 46 12.2, m=2.7(WAR), Dc=3.8°.
11	ePKIKP	10 07 01.5	New Hebrides 18.8°S 168.8°E, H=09 47 37.1, h=83 km(ISC), m=4.9, Dc=143.8°.
11	ePg eiSg	11 05 16 05 44	D=2.2°.
11	eiPg iSg	12 50 24 51 19.6	Italy, Dc=3.9°.
11	eiPg eiSg Lm	15 05 02.6 05 10.4 05 14	D=68 km.
11	eiP iPcP	15 43 05.8 43 18.0	Aleutian Islands, TPV=1.3 s A=128 mu, mPV=5.8, Dc=79.0°.
11	eiP i	16 15 09 15 15.4	Kurile Islands, Dc=75.8°.
11	iPn ei eiSn ei	16 17 15.2 17 54.5 18 02.5 18 34.5	D. Yugoslavia, Dc=3.8°.
11	eiPKIKP ei	18 16 40 18 18.5	Tonga Islands, Dc=147.4°.
11	e	18 36 43	
11	eiP	18 47 12.6	Aleutian Islands 52.6°N 169.6°W, H=18 35 13, h=27 km(ISC), m=4.4 ISC, Dc=78.4°.
12	eiP	04 20 16.5	D. Costa Rica 8.6°N 83.4°W, H=04 07 27, h=32 km (ISC), m=4.7 ISC, Dc=88.0°.

Date	Phase	h m s	Remarks
12	ePn eiSn	08 30 16 30 39.8	Explosion of 6.6 Tons, Dc=1.9°.
12	eP	08 36 45	Pakistan 23.3°N 61.6°E, H=08 28 25, h=33 km(ISC), m=4.6 ISC, Dc=45.6°.
12	e	12 13 52	Japan, Dc=80.8°.
12	iP i ei	13 01 49.4 02 05.8 02 31.5	C. Japan, TPV=1.2 s A=237 mu, mPV=6.1, Dc=79.7°.
12	eiP	14 02 24.5	Japan 41.5°N 144.4°E, H=13 56 14, h=2 km(ISC), m=4.4 ISC, Dc=79.9°.
12	eiPKIKP ei	15 14 41 15 45	West New Guinea, Dc=113.3°.
12	eiP	17 45 55.8	C. Kurile Islands, TPV=1 s A=11 mu, mPV=4.8, Dc=79.0°.
12	eiPKP i i ei	19 04 23 04 28.5 04 56.8 07 11.8	New Hebrides, Dc=140.3°.
12	iPKP i	19 08 05.5 08 28.8	Chile, Dc=99.6°.
12	ei	19 16 02.5	
12	e ei	22 15 56 16 56.5	
12	eiP	23 17 05.4	Japan, Dc=79.8°.
13	iP ei	03 02 43.6 03 16.5	C. Leeward Islands, TPV=1.5 s A=73 mu, mPV=5.4, Dc=67.9°.
13	eP	03 08 33	Japan 41.6°N 144.4°E, H=02 56 25, h=14 km(ISC), m=4.3 ISC, Dc=79.9°.
13	eiPKIKP	05 21 55.5	Fiji Islands 16.0°S 179.9°W, H=05 02 31, h=124 km (ISC), m=4.4 ISC, Dc=145.2°.
13	e ei	06 44 23.5 44 49.5	
13	e eiSg	12 34 47 35 16.4	
13	eiP	15 06 54.8	Crete, Dc=16.2°.
13	eiP	21 21 47.3	Komandorsky Islands, Dc=75.5°.
13	eP	22 58 18	Crete, Dc=16.4°.

Date	Phase	h m s	Remarks
14	eP	03 20 46	Sumatra 2.0°N 99.2°E, H=03 08 32, h=182 km(ISC), m=5.2 ISC, Dc=85.6°.
14	e	05 23 56	
14	e eiSg Lm	12 42 55 43 02.5 43 10	
14	eP	12 52 34	Crete 34.3°N 24.7°E, H=12 48 31, h=0 (ISC), Dc=16.9°.
14	e ei ei eiSg	22 14 25.5 14 46 15 17.4 15 26	
15	eiP	00 20 09.3	Aleutian Islands, TPV=1 s A=16 mu, mPV=5.0, Dc=79.3°.
15	ePn eiPg eiSg	09 00 34 00 36.8 01 01.3	Explosion. D=1.9°.
15	ePg eiSg Lm	16 02 33 02 37.3 02 39	D=30 km.
15	eiP	16 31 11.7	D. Aleutian Islands, TPV=1.2 s A=25 mu, mPV=5.0, Dc=79.7°.
16	eiP ei	02 12 43.8 12 57.5	D. Aleutian Islands, TPV=1 s A=16 mu, mPV=4.9, Dc=79.9°.
16	eiPKIKP eiPKP	06 18 15.5 18 22	Tonga Islands, Dc=149.6°.
16	e eiSg	09 07 03 07 11	
16	eiPg iSg	13 11 31.5 11 46.5	D=1.1°.
16	eiP	20 56 01.3	Kurile Islands, TPV=1 s A=16 mu, mPV=5.1, Dc=78.6°.
16	eiP	23 28 10	Aleutian Islands, TPV=1 s A=24 mu, mPV=5.2, Dc=78.6°.
17	ei	09 53 24	
17	eiPg eiSg Lm	15 03 13 03 21.3 03 26	D=70 km.

Date	Phase	h m s	Remarks
17	eP	19 39 06.4	Kurile Islands, Dc=78.6°.
18	eiPg eiSg	13 00 37.8 00 59	D=1.6°.
18	eiPg eiSg	14 59 03.8 15 00 08.5	Explosion of 1.6 Tons, Dc=1.7°.
18	eP ei	18 13 09 13 12	Greenland Sea, Dc=24.4°.
18	eP ei ei	18 54 00 54 08.2 54 26.5	Greenland Sea, Dc=24.3°.
18	eiP ei	19 52 47.7 53 01	North Atlantic Ridge, Dc=52.6°.
18	eiP	21 26 43.8	North Atlantic Ridge. Dc=53.3°.
19	iP	05 32 11.5	C. Japan, TPV=1 s A=38 mu, mPV=5.3, Dc=82.1°.
19	eiP i e	07 16 18.2 16 25.5 19 30	Crete, Dc=15.9°.
19	eiP ei	07 43 22.3 43 37.7	C. Japan, TPV=1 s A=16 mu, mPV=4.9°, Dc=80.1°.
19	eiP ei	07 53 42 54 04	Burma, Dc=71.0°.
19	e eiSg	12 06 18 07 09.2	
19	e	13 49 41	
19	e eiSg Lm	14 59 59 15 00 02 00 05	
19	eiP	16 50 37.4	Kodiak Island 56.7°N 154.2°W, H=16 39 01.8, h=26 km(ISC), m=4.6 ISC, Dc=74.0°.
19	eiP ei	17 50 10.5 50 28	North Atlantic Ridge, Dc=52.7°.
20	eiP	01 09 03.5	North Atlantic Ridge, Dc=52.7°.
20	eiPKIKP	04 40 40.5	Solomon Islands 6.7°S 154.3°E, H=04 21 45, h=65 km (ISC), m=5.1 ISC, Dc=126.3°.
20	eiP	09 42 01.5	Aleutian Islands 51.4°N 176.5°W, H=09 29 59.3, h=54 km(ISC), m=5.3 ISC, Dc=79.5°.

Date	Phase	h m s	Remarks
20	eiPKP	17 07 41.5	South Pacific Cordillera, Dc=156.3°.
20	eiPKIKP	19 13 25.5	South Pacific Cordillera, Dc=156.3°.
21	eiP	12 31 24	D. Kurile Islands, Dc=78.2°.
22	eiP	06 40 48.5	Sea of Okhotsk, Dc=75.1°.
	eipP	42 29	
22	eiP	09 04 11.2	C. Aleutian Islands, TPV=1.s A=27 mu, mPV=5.5,
	ei	04 39.5	Dc=77.5°.
22	eiP	12 25 21.5	C. Mona Passage, TPV=1.3 s A=21 mu, mPV=5.1, Dc=70.2°.
22	ePg	14 18 47	D=1.5°.
	eiSg	19 07	
22	eiP	16 06 53.5	Aleutian Islands, Dc=77.5°.
23	ePKP	02 38 30	New Hebrides, Dc=139.4°.
	ei	38 39.8	
	eiPP	41 32.5	
	eiPKS	42 10	
23	e	10 49 51	
	eiSg	50 03	
23	eiPg	12 44 09.3	D=1.5°.
	eiSg	44 28.2	
23	ePg	14 54 36	Poland, Dc=3.6°.
	eiSg	55 24.6	
23	eiPg	16 10 52.5	D=62 km.
	eiSg	11 02	
	Lm	11 06	
23	ePKP	18 36 55	Tonga Islands, Dc=149.8°.
24	eiP	07 05 12	C. Kodiak Islands, TPV=1 s A=16 mu, mPV=5.0, Dc=74.0°.
24	eiPKP1	07 51 49.8	Kermadec Islands, Dc=159.7°.
	eiPKP2	52 28.7	
24	eiPg	12 59 10.7	Explosion of 1.2 Tons, Dc=135 km.
	eiSg	59 27	
	Lm	59 33	
24	eP	15 18 59	Kodiak Island 56.6°N 152.9°W, H=15 07 24, h=35 km (ISC), m=4.6 ISC, Dc=74.1°.

Date	Phase	h m s	Remarks
25	ePKIKP	03 38 26.2	Fiji Island, Dc=144.6°.
25	ePg	07 32 45	D=1.9°.
	eiSg	33 10.4	
	Lm	33 15	
25	eiPg	08 35 15.6	D=1.6°.
	eiSg	35 36.5	
25	eiPg	08 59 49	D=62 km.
	eiSg	59 56.4	
25	e	12 01 36	
	eiSg	01 51.5	
25	ePg	16 20 15	D=1.3°.
	eiSg	20 32.4	
27	eP	04 21 54	Alaska, Dc=69.9°.
	ei	21 57	
27	eiP	04 26 44.5	Alaska, Dc=70.1°.
27	eP	06 07 57.5	Greece - Albania 39.3°N 20.9°E, H=06 05 10.6, h=76 km(ISC), Dc=11.1°.
27	eP	11 12 45	Kurile Islands 49.4°N 155.7°E, H=11 01 12.0, h=58 km(ISC), m=4.8 ISC, Dc=76.5°.
27	eiP	12 59 57	C. Kurile Islands, PV=1 s A=32 mu, mPV=5.4, Dc=77.5°.
27	eiP	20 19 06.5	Svalbard, Dc=29.6°.
	ei	19 47.5	
28	eP	07 45 48.5	Panama, Dc=89.1°.
28	eP	12 01 01	Kamchatka, Dc=73.6°.
28	eiPKIKP	12 05 20.6	Tonga Islands 15.0°S 175.0°W, H=11 45 40.7, m=4.7 LAO, Dc=145.3°.
28	eiPn	12 58 20	Poland, Dc=3.6°.
	ei	58 34.3	
	eiSg	59 18.2	
28	eiPKIKP	15 06 24.6	Loyalty Islands, Dc=148.0°.
28	eiPg	16 46 48.2	D=1.3°.
	iSg	47 06.5	
	Lm	47 16	
29	eP	05 12 50	North Atlantic Ridge, Dc=50.1°.

Date	Phase	h m s	Remarks
29	eiPKIKP	08 19 07	Fiji Islands, Dc=145.7°.
29	eiP	09 34 15.8	C. India Ocean, Dc=88.9°, TPV=1.1 s A=32 mu, mPV=5.5.
29	eiP	17 28 39	Japan, TPV=0.9 s A=14 mu, mPV=4.9, Dc=79.6°.
29	eiPKIKP i	22 36 34.7 36 41.5	New Hebrides, Dc=139.5°.
30	eiP	02 24 33.6	C. Crete, TPV=1 s A=16 mu, mPV=4.1, Dc=16.0°.
30	eiP	13 05 58.2	Greenland Sea, Dc=24.5°.
30	e eiSg Lm	14 02 05 02 17 02 23	
30	eiPKIKP	22 29 17.7	New Ireland, Dc=124.0°.

Date	Phase	h m s	Remarks
1	eiP	03 36 09.6	
1	eiP	04 40 33.2	Southern Alaska, TPV=1 s A=19 mu, mPV=5.2, Dc=69.8°.
1	eiPKHKP iPKIKP eiPP ei	05 16 03.2 16 10.6 19 02.5 19 35	New Hebrides, Dc=138.8°.
1	eP ei ei	19 08 04 08 19.5 11 02	D. Japan, Dc=76.1°.
2	eiP ei	03 14 59 15 01.5	Persia, Dc=37.0°.
2	e eiSg	07 23 48.5 23 14	D=1.9°.
3	ePn ei eiSg	07 47 04 47 30 47 56.5	Czechoslovakia, Dc=3.2°.
3	eiPKIKP eiPKHKP iPKP2 eipPKP	14 32 19 32 27.5 32 42.8 34 28.4	Fiji Islands, Dc=153.5°.
4	eiPKIKP ei	18 21 48.7 21 59.5	C. Samoa Islands, Dc=146.0°.
6	eiP ei	02 25 39.5 26 58	Yugoslavia 43.1°N 18.5°E, H=02 24 02.4(BEO), Dc=7.0°.
6	eiP	07 30 32.5	Kurile Islands, Dc=77.0°.
6	eiPKP	11 27 09.3	Tonga Islands, Dc=148.3°.
6	eiPg eiSg	16 59 23 59 27	D=34 km.
7	iPg	15 03 38	
7	iP i	17 29 51.0 30 12.0	Kurile Islands 44.5°N 151.7°E, H=17 17 45.2, h=40 km(ISC), m=5.6 ISC, Dc=79.8°.
8	iP ei	00 05 41.5 05 17.2	C. Mona Passage 18.3°N 68.5°W, H=23 54 36.5, h=147 km(ISC), m=5.2 ISC, TPV=1 s A=38 mu, mPV=5.2, Dc=71.2°.
8	eiP	04 44 15.5	D.

Date	Phase	h m s	Remarks
8	eiPKP	06 41 04.6	Fiji Islands 15.6°S 176.3°W, H=06 21 37, h=125 km, m=4.3 ISC, Dc=145.6°.
8	eiPn ei eiSn eiSg	11 33 13.6 33 45 34 46.2 35 29.4	D. Yugoslavia, Dc=7.9°.
8	eiPg iSg Lm	11 47 06.8 47 15.5 47 19	D=76 km.
8	ePg eiSg	12 35 27 35 52	D=1.9°.
8	ePg eiSg	12 39 15.5 39 29	D=1?
8	eP	14 17 52	Japan 39.8°N 141.3°E, H=14 05 51.6, h=99 km(ISC), m=4.7 ISC, Dc=80.2°.
8	eP	15 14 25	Komandorsky Islands, Dc=72.2°.
8	ePg eiSg	15 37 58 38 02	
8	eiP ei	18 42 30 43 41	Yugoslavia, Dc=6.0°.
9	iPg iSg Lm	10 00 05.7 00 19.6 00 28	Explosion of 30.3 Tons, Dc=0.7°.
9	ePg eiSg	13 54 13.5 54 20	
9	eSg Lm	14 31 09 31 16	
9	eiP iPcP	16 55 58 56 09.4	C. Aleutian Islands, TPV=1.2 s A=50 mu, mPV=5.5, Dc=78.3°.
9	eP	17 24 09	Aleutian Islands 51.7°N 174.6°E, H=17 12 11, h=35 km(ISC), m=4.8 ISC, Dc=78.3°.
10	eiP ei	13 19 22.6 19 26.5	C. Mexico, Dc=89.2°.
10	ePKP	16 32 24.5	Tonga Islands 19.8°S 175.7°W, H=16 12 36.9, h=33 km(ISC), m=4.5 ISC, Dc=149.8°.
10	eiP i ei eiS	17 12 20.5 12 35.5 13 40.5 15 32.4	Turkey, Dc=16.2°.

Date	Phase	h m s	Remarks
10	ePKP	18 26 56	New Guinea, Dc=119.0°.
11	eP	02 19 06.0	Unimak Island 53.6°N 163.6°W, H=02 07 12, h=45 km(ISC), m=4.2 ISC, Dc=77.6°.
11	eiP ei	19 59 33.2 59 53	C. Japan, TPV=0.8 s A=27 mu, mPV=5.3, Dc=78.8°.
11	e	20 26 29	
12	eiPKP	05 46 12.4	C. Tonga Islands, Dc=150.6°.
12	ei ei ei i	07 37 26 37 47 38 53 39 06.5	Switzerland, D=5.5°.
12	eiPKP2	11 18 39	New Zealand, Dc=155.8°.
12	eiPg eiSg Lm	14 31 17 31 24.8 31 28	D=60 km.
13	ePn eiSn eiSg	09 09 16 09 57.5 10 17	Yugoslavia, Dc=3.5°.
13	eiP ei eiPP	12 28 51.6 29 19 30 30	D. Afghanistan, TPV=1 s A=51 mu, mPV=5.2, Dc=43.0°.
14	eiP	02 10 23.2	Kamchatka, Dc=71.2°.
14	eiP	03 55 34.5	C. Aleutian Islands, TPV=1.4 s A=40 mu, mPV=5.0, Dc=78.0°.
14	eP	06 52 33	North Atlantic Ridge 10.8°N 43.2°W, H=06 42 30, h=76 km(ISC), m=4.5 ISC, Dc=60.4°.
14	eiP ei	11 16 41.3 16 57	Japan, Dc=82.7°.
14	eiPKP2	11 35 59.5	C. Kermadec Islands, Dc=157.4°.
14	ePg eiSg	12 06 35 06 53.5	D=1.4°.
14	eiPg ei	12 31 05.5 32 50.5	
14	e eiSg	13 18 58 19 27	

Date	Phase	h m s	Remarks
14	iP	14 52 12.2	D. Rumania, Dc=9.3°.
	ei	53 10	
	ei	55 18	
14	e	19 29 02	
14	eiPKIKP	21 26 34.5	C. New Guinea, Dc=119.3°.
	ei	26 37	
	ei	27 08	
14	eiP	21 36 51	
	ei	40 13.6	
15	eiP	02 18 56	Burma, TPV=1.1 s A=35 mu, mPV=5.2, Dc=68.1°.
	ei	19 25	
15	e	02 47 07	
15	eiPg	13 00 18.3	D=1.6°.
	eiSg	00 40	
	Lm	00 54	
16	eiP	01 38 57.4	Kurile Islands, Dc=77.1°.
16	eiPg	05 03 46.5	D=1.1°.
	i	03 48	
	iSg	04 04.5	
16	eiPg	11 00 00.2	D=82 km.
	iSg	00 09.8	
	Lm	00 13	
16	eiP	21 01 38.4	Nepal-India , Dc=53.7°.
	ei	02 18	
	ei	03 30	
	ei	05 22.8	
	ei	06 37.4	
17	eiP	06 04 36.5	Jan Mayen, Dc=25.3°.
17	ePg	09 33 48	D=1.3°.
	eiSg	33 05.4	
17	ePg	12 45 16.5	D=1.4°.
	eiSg	45 35	
	Lm	45 41	
17	e	18 52 53.5	
	eiSg	53 47	
18	ePn	01 45 10.5	Austria, Dc=2.2°.
	eiSn	45 36	
	eiSg	45 41	

Date	Phase	h m s	Remarks
18	ei	04 54 19.6	
18	iP	05 05 40.4	C. Kazakhstan, TPV=1.2 s A=106 mu, mPV=5.3, Dc=46.5°.
	ei	06 09	
18	eiP	07 46 19	Crete, Dc=17.1°.
	ei	46 23.4	
	ei	47 03.2	
18	eiP	10 51 02.5	Gibraltar 39.5°N 7.3°W, H=10 46 25.1, h=0(ISC), m=4.6 ISC, Dc=20.1°.
18	eiP	13 09 53.6	
19	eiPg	12 44 40.7	D=1.5°.
	eiSg	45 00.8	
	Lm	45 14.5	
20	eiP	00 38 59	D. Alaska, TPV=1.2 s A=28 mu, mPV=5.3, Dc=63.5°.
20	eiP	01 08 23.5	Alaska, TPV=1.2 s A=25 mu, mPV=5.2, Dc=63.6°.
20	eiPg	09 49 48	
	ei	50 27.3	
	eiSg	50 38.5	
20	eiP	12 39 44.2	D. Argentina 26.1°S 63.1°W, H=12 26 53.6, h=571 km (ISC), m=5.8 ISC, Dc=101.1°.
	ei	40 17.8	
	iPP	43 56.5	
	ei	46 20	
	ei	49 10	
20	iP	15 42 26.0	C. Nevada 37.3°N 116.4°W, H=15 30 01.9, h=21 km (ISC), m=6.3, TPV=1.5 s A=285 mu, mPV=6.3, Dc=83.2°.
	ei	43 56.2	
	ei	45 39.4	
20	e	16 36 16.2	
20	eiP	18 52 49.4	Philippine Islands 14.8°N 122.2°E, H=18 39 43.7, h=32 km(ISC), m=5.3 ISC, Dc=90.8°.
	ei	53 28	
21	eiP	09 42 04.2	Kamchatka 52.4°N 159.3°E, H=05 30 26, h=33 km(ISC) m=4.3 ISC, Dc=74.7°.
21	eiPg	09 03 09	D=1.4°.
	eiSg	03 27	
21	eiPKIKP	09 11 08.8	D. New Hebrides 20.0°S 169.7°E, H=06 52 00.1, h=244 km(ISC), m=5.7 ISC, Dc=145.2°.
	eipPKIKP	12 07.5	
	eiPP	14 26	
21	ePg	11 59 17	D=1.6°.
	eiSg	59 38	

Date	Phase	h m s	Remarks
21	e	13 48 01.5	
	ei	48 36.5	
	eiSg	49 03	
21	e	15 36 13	
	eiSg	36 16.7	
22	ePg	03 24 47.5	D=1.1°.
	eiSg	25 03	
22	eP	13 12 10.5	
22	eiP	17 38 32.4	Kurile Island, Dc=79.1°.
22	eiP	19 35 52.3	Kurile Islands, Dc=76.9°.
	ei	35 58.6	
23	eiPKP	01 29 56.7	C. Tonga Islands, Dc=174.4°.
23	eiPg	12 19 20.5	D=1.5°.
	eiSg	19 40	
	Lm	19 51	
23	e	12 49 51	D=1.7°.
	ei	50 00	
	eiSg	50 23	
23	ePg	13 36 38	D=2.2°.
	eiSg	37 06.8	
	Lm	37 26	
23	iPKIKP	16 09 14.4	C. New Guinea, Dc=123.5°.
	i	09 34.5	
	ei	11 11	
	ei	13 36.8	
	eiSKKS	17 22	
	ei	19 04	
24	eiP	00 00 57	Kamchatka, Dc=73.3°.
24	eP	00 07 38.5	Kamchatka, Dc=73.4°.
24	eP	06 14 12	Volcano Islands, Dc=93.0°.
24	eiPn	07 14 38.2	Austria, Dc=2.7°.
	ei	14 43.8	
	iSn	15 17.5	
24	e	19 29 26.5	
	ei	30 04.6	
24	ePn	21 06 53.5	Yugoslavia, Dc=3.1°.
	eiPg	07 08	
	eiSn	07 24	
	ei(Sg)	07 37.5	

Date	Phase	h m s	Remarks
24	eiP	22 40 06	D. Alaska, TPV=1.1 s A=23 mu, mPV=5.3, Dc=70.9°.
25	eiP	05 51 16.6	Arabian Sea, Dc=47.6°.
25	eiP	11 59 32.5	North Atlantic Ocean, Dc=25.0°.
	ei	59 50.6	
25	eiPKP	13 01 13.4	C. Tonga Islands, Dc=149.1°.
25	eiP	19 55 45	Mediterranean Sea, Dc=17.6°.
25	eiP	23 15 20.5	Aleutian Islands, Dc=78.3°.
26	eiP	04 25 53.8	Turkey, Dc=22.1°.
	ei	26 43.2	
26	e	10 42 34	
	ei	43 33	
26	e	13 09 20	
	ei	09 32	
	eiSg	10 18	
27	eiP	01 34 34	C. Japan, TPV=1.2 s A=106 mu, mPV=5.7, Dc=82.3°.
	ei	34 53.2	
27	ePKIKP	06 01 04.5	New Guinea 5.9°S 145.4°E, H=00 42 16, h=56 km(ISC), m=5.2 ISC, Dc=120.9°.
27	eiPKP	12 10 06	Fiji Islands, Dc=152.9°.
27	ePKP	16 07 19	Tonga Islands 15.8°S 175.0°W, H=15 47 53, h=33 km (ISC), m=4.2 ISC, Dc=146.0°.
27	eiP	21 34 58.5	El Salvador 13.3°N 88.9°W, H=21 22 17.4, h=85 km (ISC), m=5.2 ISC, Dc=88.1°.
27	eiPKP	21 45 55	Tonga Islands, Dc=151.3°.
	ei	46 02.5	
28	eiP	08 32 11.5	Chile, Dc=105.3°.
	i	32 15	
	ei	35 27.5	
	eiPP	36 38	
28	ePKIKP	10 44 20	Chile 25.2°S 71.3°W, H=10 26 00, h=35 km(ISC), m=4.5 ISC, Dc=105.4°.
28	e	12 39 38.7	
28	ePg	13 15 13	D=1.1°.
	eiSg	15 27	
	Lm	15 35	

Date	Phase	h m s	Remarks
29	eiP	06 32 17.2	C. Rumania, Dc=9.5°.
29	ePKHKP	22 35 32	Easter Island Cordillera 32.8°S 111.8°W, H=22 16 22 h=32 km(ISC), m=5.3 ISC, Dc=136.6°.
30	iPKP	01 18 56.6	C. Fiji Islands, Dc=146.9°.
30	ePKIKP	10 03 21.5	Loyalty Islands 22.1°S 170.4°E, H=09 43 48, h=70 km (ISC), Dc=146.5°.
30	ePg eiSg Lm	12 29 27 29 59 30 33	D=2.5°.
30	ePg eiSg Lm	12 41 26.5 41 50.6 42 09.5	D=1.8°.
31	eP ei	00 38 50 39 24.5	Lake Baikal, Dc=55.0°.
31	eiPKIKP	03 41 03.6	New Hebrides 17.4°S 172.1°E, H=03 21 29, h=22 km (ISC), m=4.9 ISC, Dc=143.9°.
31	ei eiSg	10 50 34 50 53	
31	eiPKIKP i i	18 42 24.4 42 45.5 45 29.0	Santa Cruz Islands, Dc=136.6°.
31	eiPKIKP	19 12 32	Santa Cruz Islands, Dc=136.2°.
31	ePKIKP	19 57 50	Santa Cruz Islands, Dc=136.0°.
31	ePKP i eiPP	22 34 28 34 51.0 37 22.5	Santa Cruz Islands, Dc=136.5°.

Station PRAHA - microseismic agitation

July - December 1966

J.Hajský

Microseismic agitation
Instrument: Wiechert NS

July 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.8	0.1	3	3.8	0.2	3	3.4	0.1	...		
2	3	3.5	0.1	3	3.7	0.1	0.0			0.0		
3	0.0			0.0			3	3.8	0.1	3	3.4	0.1
4	3	3.7	0.1	0.0			3	3.9	0.2	3	4.2	0.1
5	0.0			3	3.8	0.1	3	4.3	0.2	3	3.6	0.1
6	3	4.2	0.1	3	3.8	0.1	0.0			0.0		
7	0.0			3	4.0	0.1	3	4.2	0.1	3	4.4	0.1
8	3	3.9	0.1	3	4.3	0.2	3	4.2	0.2	3	3.9	0.1
9	3	3.6	0.1	3	3.5	0.1	3	3.9	0.1	3	4.0	0.1
10	3	4.5	0.1	3	3.8	0.1	3	3.6	0.1	...		
11	0.0			3	3.7	0.1	3	3.4	0.1	0.0		
12	0.0			3	4.0	0.1	3	4.1	0.1	3	3.6	0.1
13	0.0			3	4.0	0.1	3	4.2	0.1	0.0		
14	0.0			3	3.6	0.1	...			3	4.2	0.1
15	0.0			0.0			3	3.5	0.1	0.0		
16	...			3	3.6	0.1	0.0			0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			3	3.4	0.1	3	3.7	0.1	3	3.6	0.1
19	0.0			3	3.7	0.1	3	3.3	0.1	0.0		
20	0.0			3	3.6	0.1	3	3.7	0.1	0.0		
21	0.0			3	4.0	0.1	3	3.8	0.1	3	3.7	0.1
22	0.0			3	3.7	0.1	3	4.2	0.1	3	3.8	0.1
23	0.0			3	4.4	0.1	3	4.4	0.2	3	4.0	0.1
24	3	3.7	0.1	0.0			3	3.4	0.1	3	3.7	0.1
25	0.0			3	3.9	0.1	3	3.7	0.1	0.0		
26	0.0			3	3.3	0.1	3	3.5	0.1	3	3.2	0.1
27	0.0			3	3.8	0.1	3	3.6	0.1	0.0		
28	0.0			0.0			3	4.1	0.1	3	4.4	0.2
29	3	3.9	0.1	3	3.4	0.1	3	3.8	0.1	3	3.5	0.1
30	0.0			3	4.3	0.1	0.0			0.0		
31	0.0			0.0						0.0		

Microseismic agitation
Instrument: Wiechert EW

July 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			0.0			0.0			3	3.5	0.1
2	0.0			0.0			3	3.9	0.1	3	3.3	0.1
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			3	3.9	0.1	0.0		
5	0.0			0.0			3	3.8	0.1	0.0		
6	0.0			0.0			3	3.5	0.1	3	3.7	0.1
7	3	3.4	0.1	0.0			0.0			0.0		
8	0.0			3	4.0	0.1	3	3.8	0.1	0.0		
9	0.0			0.0			0.0			...		
10	0.0			0.0			0.0			...		
11	0.0			3	3.3	0.1	3	3.4	0.1	0.0		
12	0.0			3	4.2	0.1	3	4.2	0.1	0.0		
13	0.0			3	3.4	0.1	3	3.7	0.1	0.0		
14	0.0			3	3.7	0.1	...			3	3.9	0.1
15	3	3.4	0.1	0.0			0.0			0.0		
16	...			0.0			0.0			0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			0.0			0.0		
19	0.0			0.0			0.0			0.0		
20	0.0			0.0			0.0			3	3.3	0.5
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			3	3.9	0.1	3	3.7	0.1
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			0.0			0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			3	3.8	0.1	0.0		
29	0.0			0.0			0.0			0.0		
30	0.0			0.0			0.0			0.0		
31	0.0			0.0			...			0.0		

Microseismic agitation
Instrument: Wiechert NS

August 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.8	0.1	3	3.5	0.1	3	3.6	0.1
2	0.0			3	3.5	0.1	3	3.9	0.1	3	3.4	0.1
3	0.0			3	3.3	0.1	3	3.6	0.1	0.0		
4	0.0			3	3.7	0.1	3	3.4	0.1	...		
5	3	3.3	0.1	3	3.4	0.1	3	3.8	0.1	tt		
6	0.0			...			0.0			0.0		
7	0.0			0.0			0.0			tt		
8	0.0			0.0			3	3.4	0.1	3	3.3	0.1
9	3	3.6	0.1	...			3	3.4	0.1	3	3.3	0.1
10	0.0			3	4.0	0.2	3	3.7	0.2	3	3.9	0.2
11	3	3.4	0.1	3	3.5	0.2	3	3.3	0.2	3	3.4	0.1
12	0.0			3	3.3	0.1	3	3.8	0.1	3	3.7	0.1
13	0.0			3	3.3	0.1	3	3.4	0.1	0.0		
14	0.0			3	3.1	0.1	3	3.2	0.1	3	3.3	0.1
15	0.0			3	3.8	0.1	3	4.0	0.1	0.0		
16	3	3.5	0.1	3	3.5	0.1	3	3.7	0.1	0.0		
17	0.0			3	3.5	0.1	3	3.7	0.1	3	3.4	0.1
18	0.0			3	3.8	0.1	3	4.0	0.1	0.0		
19	3	3.3	0.1	0.0			3	4.0	0.1	3	4.2	0.2
20	3	3.9	0.1	0.0			0.0			0.0		
21	0.0			3	3.9	0.1	0.0			0.0		
22	0.0			3	3.5	0.1	3	3.8	0.1	0.0		
23	0.0			3	4.0	0.1	...			...		
24	0.0			3	3.9	0.1	0.0			0.0		
25	0.0			3	3.8	0.1	3	4.0	0.1	3	3.4	0.1
26	0.0			3	4.0	0.1	...			3	3.7	0.1
27	3	3.5	0.1	3	3.8	0.1	3	3.7	0.1	0.0		
28	3	3.4	0.1	0.0			3	3.3	0.1	0.0		
29	0.0			3	3.9	0.1	3	3.3	0.1	3	3.7	0.1
30	3	3.6	0.1	3	4.1	0.1	3	3.4	0.1	3	3.3	0.1
31	0.0			3	3.5	0.1	3	3.4	0.1	3	3.8	0.1

Microseismic agitation
Instrument: Wiechert EW

August 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			...		
5	0.0			0.0			3	3.6	0.1	tt		
6	0.0			...			0.0			0.0		
7	0.0			0.0			0.0			tt		
8	0.0			3	3.3	0.1	0.0			0.0		
9	0.0			...			0.0			0.0		
10	0.0			3	3.6	0.1	3	3.9	0.1	0.0		
11	3	3.7	0.1	3	3.6	0.1	...			3	3.4	0.1
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			3	3.0	0.1	3	3.3	0.1
15	0.0			3	3.7	0.1	...			0.0		
16	0.0			0.0			3	3.8	0.1	0.0		
17	0.0			3	3.9	0.1	0.0			0.0		
18	0.0			3	4.1	0.1	3	4.3	0.1	3	3.4	0.1
19	0.0			0.0			3	3.6	0.1	3	3.5	0.1
20	0.0			0.0			0.0			0.0		
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			3	3.8	0.1	...			...		
24	0.0			3	4.3	0.1	0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			0.0			3	3.6	0.1
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			0.0			0.0		
30	0.0			0.0			3	3.5	0.1	3	3.3	0.1
31	0.0			0.0			3	3.4	0.1	0.0		

Microseismic agitation
Instrument: Wiechert NS

September 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.7	0.1	3	3.9	0.1	3	4.0	0.1
2	3	3.6	0.1	3	3.3	0.1	...			3	3.4	0.1
3	3	3.3	0.1	3	3.8	0.1	0.0			0.0		
4	3	3.4	0.1	3	3.3	0.1	3	3.8	0.1	3	3.7	0.1
5	3	3.8	0.1	3	4.4	0.2	3	4.1	0.2	3	3.9	0.2
6	3	4.3	0.2	3	5.7	0.5	3	5.4	0.6	3	4.8	0.4
7	3	5.0	0.2	3	4.7	0.4	3	4.5	0.4	3	4.2	0.2
8	3	4.6	0.2	3	4.2	0.2	3	4.0	0.2	3	4.1	0.2
9	3	3.9	0.1	3	4.1	0.1	3	4.5	0.2	3	4.3	0.1
10	3	4.0	0.1	3	3.8	0.2	3	3.7	0.2	3	3.8	0.1
11	3	3.4	0.1	3	3.8	0.1	3	3.6	0.1	3	3.5	0.1
12	0.0			3	3.7	0.1	tt			...		
13	3	3.3	0.1	3	4.1	0.2	3	4.2	0.2	3	4.0	0.1
14	0.0			3	4.4	0.2	3	4.5	0.2	3	4.1	0.2
15	tt			3	4.0	0.2	...			tt		
16	3	3.9	0.1	3	4.4	0.1	3	3.9	0.1	3	3.4	0.2
17	3	4.3	0.1	3	4.2	0.2	3	4.0	0.2	3	3.9	0.1
18	3	3.7	0.1	3	4.0	0.1	3	3.5	0.1	3	4.0	0.1
19	3	3.4	0.1	3	3.7	0.2	3	3.9	0.2	3	4.0	0.2
20	3	3.7	0.1	3	4.0	0.2	3	4.1	0.2	3	3.9	0.2
21	3	3.7	0.1	3	4.4	0.2	3	4.2	0.2	3	3.9	0.1
22	3	3.7	0.1	3	3.8	0.1	3	3.7	0.2	3	3.9	0.2
23	3	3.8	0.1	3	3.6	0.1	3	3.8	0.1	3	3.7	0.1
24	3	3.8	0.1	3	3.8	0.1	3	4.0	0.1	3	3.7	0.1
25	0.0			0.0			3	3.3	0.1	3	3.5	0.1
26	0.0			tt			3	3.7	0.1	3	3.5	0.1
27	0.0			3	3.7	0.1	3	3.4	0.2	3	3.9	0.1
28	3	3.5	0.1	3	3.5	0.1	3	3.6	0.1	0.0		
29	0.0			3	3.7	0.1	3	3.8	0.2	3	3.5	0.1
30	3	3.4	0.1	3	3.8	0.1	3	3.6	0.1	3	3.5	0.1

Microseismic agitation
Instrument: Wiechert EW

September 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.4	0.1	0.0			0.0		
2	0.0			3	3.3	0.1	...			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			0.0			0.0		
5	0.0			3	4.3	0.1	3	4.0	0.3	3	4.0	0.3
6	3	4.2	0.3	3	5.6	0.5	3	5.9	0.4	3	4.5	0.3
7	3	4.7	0.3	3	4.8	0.3	3	4.5	0.3	3	4.1	0.1
8	3	4.0	0.1	3	4.0	0.1	3	4.2	0.3	3	3.9	0.1
9	3	3.7	0.1	3	3.9	0.1	3	4.0	0.1	3	4.0	0.1
10	3	4.1	0.1	3	3.6	0.1	3	3.4	0.1	0.0		
11	0.0			0.0			0.0			3	3.9	0.1
12	0.0			0.0			tt			...		
13	0.0			3	4.0	0.1	3	4.1	0.1	3	3.5	0.1
14	0.0			vv			3	3.9	0.1	3	3.5	0.1
15	tt			3	4.1	0.3	...			tt		
16	3	3.7	0.1	3	4.3	0.1	3	3.7	0.1	3	3.8	0.1
17	3	4.0	0.1	3	4.5	0.1	3	4.4	0.1	0.0		
18	0.0			0.0			3	3.4	0.1	3	3.7	0.1
19	0.0			3	3.9	0.1	3	4.0	0.1	3	3.7	0.1
20	3	3.7	0.1	3	3.9	0.1	3	4.1	0.1	3	4.3	0.1
21	3	3.7	0.1	3	3.9	0.1	3	3.5	0.1	3	3.6	0.1
22	3	3.4	0.1	3	3.7	0.1	3	3.6	0.1	3	3.8	0.1
23	3	3.7	0.1	3	3.3	0.1	3	3.7	0.1	3	3.5	0.1
24	3	3.4	0.1	0.0			0.0			3	3.7	0.1
25	0.0			0.0			0.0			0.0		
26	0.0			tt			0.0			0.0		
27	0.0			0.0			3	3.5	0.1	3	3.8	0.1
28	0.0			3	3.3	0.1	3	3.4	0.1	0.0		
29	0.0			3	3.7	0.1	3	3.4	0.1	3	3.3	0.1
30	0.0			0.0			3	3.8	0.1	3	3.9	0.1

Microseismic agitation
Instrument: Wiechert NS

October 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.9	0.2	3	3,5	0.1	3	3.7	0.1
2	0.0			0.0			3	3.4	0.1	3	3.9	0.2
3	3	4.2	0.2	3	4.6	0.5	3	4.2	0.4	3	4.2	0.4
4	3	4.6	0.4	3	4.6	0.4	3	4.1	0.4	3	4.5	0.2
5	3	4.3	0,2	3	3,9	0.2	3	4.0	0.2	3	3.9	0.2
6	3	3.8	0.1	3	4.3	0.2	3	4.7	0.2	3	3.9	0.2
7	3	4.0	0.1	3	3.7	0.1	3	4.0	0.2	3	3.9	0.1
8	3	4.2	0.1	3	4.1	0.1	3	4.0	0.2	3	4.3	0.1
9	3	4.5	0.1	3	3.8	0.1	3	3.4	0.1	3	3.7	0.1
10	0.0			3	3.6	0.2	3	3.7	0.1	3	3.9	0.1
11	3	4.2	0.1	3	3.9	0.2	3	3.8	0.1	3	3.6	0.1
12	0.0			3	4.1	0.2	3	4.3	0.2	3	4.0	0.2
13	3	3.9	0.1	3	3.8	0.2	3	4.0	0.2	3	3.3	0.2
14	3	3.7	0.1	3	3.9	0.2	3	4.2	0.2	3	4.0	0.2
15	3	3.7	0.1	tt			3	3.9	0.1	3	3.6	0.1
16	0.0			0.0			3	3.5	0.1	3	3.4	0.1
17	0.0			3	3.5	0.1	...			3	3.3	0.1
18	tt			3	4.0	0.2	3	4.3	0.2	3	4.1	0.2
19	3	3.9	0.1	3	4.0	0.2	3	4.3	0.2	...		
20	0.0			3	3.9	0.2	3	3.8	0.1	3	3.7	0.1
21	0.0			3	3.7	0.1	3	3.9	0.1	3	3.8	0.1
22	0.0			3	3.3	0.1	3	3.7	0.1	3	3.6	0.1
23	3	3.4	0.1	3	3.5	0.1	3	4.2	0.1	3	4.0	0.1
24	3	4.3	0.2	3	4.3	0.4	3	4.7	0.2	3	4.9	0.2
25	3	4.0	0.2	3	3.9	0.4	3	4.3	0.4	3	4.2	0.4
26	3	4.4	0.2	3	4.0	0.2	3	4.4	0.2	3	4.3	0.1
27	3	3.9	0.1	3	4.4	0.2	3	4.1	0.2	3	3.9	0.1
28	0.0			3	3.5	0.1	3	4.0	0.1	3	3.6	0.1
29	0.0			0.0			0.0			0.0		
30	0.0			0.0			3	3.7	0.1	3	4.0	0.1
31	0.0			3	3.5	0.1	3	4.0	0.2	3	3.7	0.1

Microseismic agitation
Instrument: Wiechert EW

October 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			3	3.7	0.1	3	3.6	0.1	0.0		
2	0.0			0.0			3	3.2	0.1	3	3.8	0.1
3	3	4.1	0.3	3	4.8	0.3	3	4.4	0.3	3	4.2	0.3
4	3	4.3	0.3	3	4.4	0.4	3	4.1	0.3	3	3.9	0.1
5	3	4.0	0.1	3	4.1	0.1	3	4.0	0.1	3	4.0	0.1
6	3	3.9	0.1	3	3.7	0.1	3	3.5	0.1	3	3.9	0.1
7	3	3.8	0.1	3	3.8	0.1	3	3.9	0.1	0.0		
8	0.0			3	4.0	0.1	3	4.1	0.1	0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			3	3.7	0.1	0.0			0.0		
11	0.0			3	3.4	0.1	3	3.2	0.1	0.0		
12	0.0			3	4.3	0.1	3	4.4	0.1	3	4.0	0.1
13	0.0			3	3.5	0.1	3	3.3	0.1	3	3.6	0.1
14	0.0			3	3.9	0.1	3	4.0	0.1	...		
15	...			tt			3	3.5	0.1	0.0		
16	0.0			0.0			0.0			0.0		
17	0.0			3	3.3	0.1	3	3.6	0.1	3	3.8	0.1
18	tt			3	3.9	0.1	3	4.3	0.3	3	3.7	0.1
19	3	3.6	0.1	3	3.9	0.1	3	4.4	0.1	3	3.9	0.1
20	3	3.4	0.1	3	3.7	0.1	3	4.0	0.1	3	3.5	0.1
21	0.0			3	3.4	0.1	3	4.2	0.1	0.0		
22	0.0			0.0			3	3.4	0.1	3	3.7	0.1
23	0.0			0.0			0.0			0.0		
24	3	3.8	0.1	3	3.7	0.3	3	4.1	0.3	3	4.1	0.1
25	3	3.9	0.1	3	4.1	0.3	3	4.3	0.3	3	3.9	0.1
26	3	4.4	0.1	3	3.9	0.1	3	3.8	0.1	3	3.9	0.1
27	3	3.4	0.1	3	3.8	0.1	3	4.0	0.1	0.0		
28	0.0			3	3.7	0.1	0.0			0.0		
29	0.0			0.0			0.0			0.0		
30	0.0			0.0			0.0			0.0		
31	0.0			3	3.4	0.1	3	3.9	0.1	3	3.7	0.1

Microseismic agitation
Instrument: Wiechert NS

November 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.9	0.1	3	4.7	0.4	3	4.8	0.4	...		
2	3	4.8	0.2	3	3.7	0.2	3	3.9	0.2	3	4.0	0.1
3	3	3.8	0.1	3	3.9	0.2	3	4.1	0.2	3	3.6	0.1
4	3	3.7	0.1	3	3.9	0.2	3	4.0	0.2	3	4.3	0.2
5	3	4.0	0.2	3	4.4	0.2	3	4.7	0.5	3	4.5	0.2
6	3	4.6	0.4	3	4.4	0.2	3	4.2	0.2	3	4.1	0.2
7	3	4.0	0.1	3	4.4	0.4	3	4.2	0.4	3	4.1	0.2
8	3	4.3	0.1	3	3.9	0.2	3	4.1	0.1	3	3.7	0.1
9	3	3.4	0.1	3	3.9	0.2	3	3.7	0.2	3	3.9	0.1
10	0.0			3	3.9	0.1	3	4.2	0.1	3	4.1	0.1
11	0.0			3	3.9	0.1	3	3.8	0.1	3	3.7	0.1
12	0.0			3	3.9	0.2	3	3.7	0.2	3	3.7	0.1
13	3	3.8	0.1	3	4.1	0.2	3	3.8	0.2	3	3.5	0.1
14	3	3.3	0.1	3	4.3	0.2	3	4.2	0.4	3	3.8	0.2
15	3	3.7	0.1	3	4.3	0.2	3	4.7	0.4	3	5.2	0.4
16	3	5.3	0.2	3	5.0	0.4	3	4.9	0.4	3	4.7	0.2
17	3	4.6	0.2	3	4.1	0.2	3	3.9	0.2	3	4.2	0.2
18	3	4.0	0.1	3	4.1	0.2	3	3.9	0.2	3	3.9	0.1
19	0.0			3	4.2	0.1	3	4.0	0.1	3	3.9	0.2
20	3	3.8	0.1	0.0			3	3.8	0.1	3	3.7	0.1
21	3	4.0	0.1	3	3.7	0.2	3	3.8	0.2	3	3.9	0.1
22	3	3.8	0.2	3	3.9	0.2	3	3.7	0.1	3	3.6	0.1
23	0.0			3	4.0	0.1	3	4.1	0.2	3	3.9	0.1
24	0.0			3	4.0	0.1	3	4.4	0.2	3	3.9	0.1
25	0.0			3	3.7	0.1	3	4.1	0.2	...		
26	3	3.8	0.1	3	4.2	0.1	3	3.9	0.1	3	4.1	0.1
27	3	4.4	0.1	3	3.8	0.1	3	4.5	0.2	3	4.2	0.2
28	3	4.6	0.2	3	4.4	0.2	3	4.4	0.5	3	4.0	0.4
29	3	4.4	0.2	3	4.5	0.4	3	4.9	0.4	3	4.6	0.2
30	3	4.4	0.2	3	4.2	0.4	3	4.7	0.4	3	4.6	0.4

Microseismic agitation
Instrument: Wiechert EW

November 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.6	0.1	3	4.5	0.3	3	4.2	0.3	...		
2	3	4.7	0.3	3	3.9	0.1	3	3.8	0.3	3	4.0	0.1
3	3	3.7	0.1	3	3.5	0.3	3	3.9	0.1	3	3.7	0.1
4	3	3.9	0.1	3	3.7	0.3	3	3.9	0.3	3	4.0	0.3
5	3	4.1	0.3	3	3.9	0.3	3	4.3	0.3	3	4.1	0.1
6	3	4.2	0.3	3	4.4	0.1	3	4.4	0.1	3	4.0	0.3
7	3	3.9	0.1	3	4.2	0.3	3	4.0	0.3	3	3.9	0.3
8	3	3.7	0.1	3	4.1	0.1	3	4.0	0.1	0.0		
9	3	3.7	0.1	3	3.8	0.1	3	3.9	0.1	3	4.0	0.1
10	0.0			3	3.7	0.1	3	3.9	0.1	3	3.8	0.1
11	0.0			3	3.7	0.1	3	3.8	0.1	0.0		
12	0.0			3	3.9	0.1	3	3.8	0.1	0.0		
13	0.0			0.0			3	3.7	0.1	0.0		
14	0.0			3	4.0	0.1	3	4.1	0.3	3	3.9	0.1
15	0.0			3	4.4	0.1	3	4.5	0.3	3	4.7	0.3
16	3	5.4	0.2	3	4.3	0.3	3	4.7	0.3	3	4.4	0.3
17	3	4.4	0.1	3	4.0	0.3	3	3.6	0.3	3	3.8	0.3
18	3	3.9	0.1	3	3.7	0.1	3	3.9	0.3	3	3.8	0.1
19	0.0			3	3.7	0.1	3	4.1	0.1	3	3.7	0.1
20	0.0			0.0			3	3.9	0.1	3	3.4	0.1
21	0.0			3	3.8	0.1	3	3.5	0.3	3	3.8	0.1
22	3	3.7	0.1	3	4.0	0.1	3	3.9	0.1	0.0		
23	0.0			3	3.9	0.1	3	3.7	0.1	0.0		
24	0.0			0.0			3	3.9	0.1	3	3.7	0.1
25	0.0			0.0			3	3.8	0.1	3	3.9	0.1
26	0.0			0.0			0.0			0.0		
27	0.0			0.0			3	4.4	0.1	3	4.5	0.1
28	3	3.9	0.1	3	4.3	0.3	3	4.4	0.3	3	4.1	0.3
29	3	4.0	0.1	3	4.6	0.3	3	5.2	0.4	3	4.1	0.1
30	3	3.9	0.1	3	4.4	0.4	3	4.7	0.3	3	4.3	0.3

Microseismic agitation
Instrument: Wiechert NS

December 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	3	3.9	0.2	3	5.1	0.6	3	5.5	0.6	3	5.0	0.5
2	3	5.3	0.4	3	5.2	0.5	3	5.3	0.6	3	4.7	0.5
3	3	4.8	0.2	3	4.5	0.4	3	4.4	0.4	3	4.2	0.2
4	3	4.1	0.1	0.0			3	3.7	0.1	3	4.4	0.1
5	3	4.0	0.1	3	4.6	0.2	3	4.3	0.4	3	4.4	0.2
6	3	4.5	0.2	3	5.1	0.4	3	5.6	0.6	3	6.9	0.5
7	3	6.3	0.4	3	6.6	0.4	3	5.7	0.4	3	5.3	0.2
8	3	5.2	0.1	3	5.0	0.4	3	4.9	0.4	3	6.0	0.4
9	3	6.2	0.4	3	7.5	0.6	3	6.9	0.6	3	5.6	0.4
10	3	5.5	0.2	3	4.6	0.4	3	5.0	0.2	3	5.0	0.1
11	3	5.0	0.1	3	4.1	0.1	3	4.5	0.2	3	3.9	0.2
12	3	3.7	0.1	3	4.5	0.4	3	4.4	0.4	3	4.6	0.2
13	3	4.4	0.2	3	5.1	0.4	3	4.9	0.4	3	4.5	0.4
14	3	4.4	0.2	3	4.0	0.2	3	4.6	0.2	vv		
15	3	4.4	0.1	3	4.4	0.2	3	4.5	0.4	3	4.9	0.2
16	3	4.3	0.2	3	5.4	0.4	3	5.2	0.2	3	5.3	0.4
17	3	5.1	0.2	3	5.0	0.4	3	5.1	0.4	3	5.0	0.2
18	3	5.0	0.1	3	4.7	0.1	3	5.4	0.4	3	5.0	0.2
19	3	4.4	0.2	3	5.7	0.5	3	5.7	0.4	3	5.0	0.4
20	3	4.8	0.2	3	5.0	0.4	3	4.8	0.4	3	4.9	0.2
21	3	4.7	0.2	3	5.3	0.4	3	5.5	0.5	3	5.3	0.4
22	3	5.1	0.2	3	4.6	0.4	3	4.3	0.4	3	4.4	0.4
23	3	4.4	0.2	3	5.3	0.5	3	5.5	0.6	3	5.2	0.4
24	3	5.1	0.4	3	4.8	0.5	3	4.8	0.4	3	4.8	0.2
25	3	4.8	0.4	3	4.7	0.2	3	5.0	0.4	3	4.6	0.2
26	3	5.0	0.2	3	4.8	0.4	3	5.0	0.2	3	4.8	0.2
27	3	4.5	0.2	3	5.2	0.4	3	5.0	0.4	3	5.0	0.2
28	3	5.1	0.2	3	5.1	0.4	3	5.[illegible]	0.4	3	4.4	0.2
29	3	4.4	0.2	3	3.9	0.2	3	4.0	0.2	3	3.7	0.2
30	3	3.8	0.2	3	4.1	0.2	3	4.0	0.2	3	4.4	0.2
31	3	4.4	0.2	3	4.7	0.2	3	4.4	0.2	3	4.5	0.2

Microseismic agitation
Instrument: Wiechert EW

December 1966

Praha

MGT	00h			06h			12h			18h		
	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)	K	T(s)	A(μ)
1	0.0			vv			3	5.3	0.5	3	4.9	0.4
2	3	5.2	0.1	3	4.8	0.4	3	5.3	0.4	3	4.7	0.4
3	3	4.5	0.3	3	4.7	0.3	3	4.1	0.3	3	4.2	0.1
4	3	4.0	0.1	0.0			0.0			3	3.9	0.1
5	0.0			3	4.4	0.1	3	4.3	0.1	3	4.1	0.1
6	3	4.3	0.1	3	5.5	0.4	3	6.8	0.4	3	6.9	0.4
7	3	6.8	0.4	3	5.7	0.3	3	6.2	0.4	3	5.1	0.1
8	0.0			3	5.9	0.3	3	5.6	0.3	3	5.3	0.3
9	3	7.0	0.4	3	7.7	0.4	3	6.2	0.4	3	5.0	0.4
10	3	5.0	0.3	3	5.5	0.3	3	6.1	0.2	3	4.3	0.1
11	3	4.2	0.1	3	3.9	0.1	3	4.4	0.1	3	4.3	0.1
12	3	3.8	0.1	3	4.6	0.3	3	4.5	0.3	3	4.7	0.3
13	3	4.4	0.3	3	4.6	0.3	3	4.9	0.3	3	4.4	0.3
14	3	4.2	0.1	3	4.9	0.1	3	4.9	0.3	3	5.0	0.3
15	3	4.7	0.3	3	5.0	0.3	3	4.7	0.3	3	4.6	0.1
16	3	4.4	0.1	3	4.6	0.3	3	5.0	0.3	3	5.2	0.3
17	3	5.0	0.1	3	5.0	0.3	3	4.7	0.3	3	4.4	0.3
18	3	4.4	0.1	3	4.6	0.1	vv			3	4.6	0.3
19	3	4.0	0.1	3	5.3	0.4	3	5.2	0.3	3	5.2	0.3
20	3	4.6	0.3	3	4.8	0.3	vv			3	4.5	0.3
21	3	4.8	0.3	3	5.0	0.3	3	4.9	0.3	3	5.0	0.3
22	3	5.1	0.1	3	4.5	0.3	3	4.3	0.3	3	4.0	0.3
23	3	3.9	0.1	3	4.8	0.4	3	5.0	0.3	3	5.1	0.3
24	3	5.0	0.3	3	4.7	0.3	3	4.7	0.3	3	4.6	0.3
25	3	5.0	0.3	3	4.8	0.1	3	5.2	0.2	3	4.8	0.1
26	3	4.6	0.3	3	4.4	0.1	3	5.0	0.3	3	4.5	0.3
27	3	4.6	0.3	3	5.1	0.3	3	5.0	0.3	3	4.9	0.1
28	3	4.8	0.1	3	4.7	0.3	3	4.2	0.1	3	4.1	0.1
29	3	4.3	0.1	3	4.0	0.1	3	3.9	0.3	3	3.7	0.1
30	3	3.8	0.1	3	4.0	0.1	3	4.2	0.1	3	4.1	0.1
31	3	3.9	0.1	3	4.4	0.3	3	4.5	0.1	3	4.3	0.1

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