BULLETIN OF THE SLOVAK SEISMOGRAPHIC STATIONS FOR THE YEAR 1966

BULLETIN OF THE SLOVAK SEISMOGRAPHIC STATIONS

BRATISLAVA
ŠROBÁROVÁ
HURBANOVO
AND
SKALNATÉ PLESO

FOR THE YEAR 1966

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Slovak Academy of Sciences
Geophysical Institute

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Bulletin of the Slovak Seismographic Stations Bratislava, Šrobárová, Hurbanovo and Skalnaté Pleso for the Year 1966

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Introduction

The annual seismological bulletin 1966 represents a new volume of the series edited up to 1965 by the Geophysical Institute of the Czechoslovak Academy of Sciences. Beginning with the year 1966 the Geophysical Institute of the Slovak Academy of Sciences will publish the seismological bulletin of the Slovak Seismographic Stations independently.

The seismological bulletin for the year 1966 contains the results of the interpretation of records from the network of seismograph stations on the territory of Slovakia: Bratislava (central station), Šrobárová and Hurbanovo. Unfortunately the seismographic station at Skalnate Pleso was not operational during the year 1966, because the building of the Astronomical Observatory, where the seismograph station is situated, was then under reconstruction during this year. Since August the station Šrobárová was not operational because the pendulum clock was in disorder.

The records from the network are collected at the Geophysical Institute of the Slovak Academy of Sciences at Bratislava, where they are analyzed. The preliminary results of the interpretation were published in ten-day preliminary bulletins for stations Bratislava and Šrobárová, and in monthly preliminary bulletins with readings of the seismograms from station Hurbanovo. The ten-day preliminary bulletins were exchanged with about twenty seismological institutions from various parts of the world. The times of the onsets of the important earthquake phases appearing on the Bratislava and Šrobárová seismograms were sent to the seismological centres at Washington, Strasbourg and Moscow twice a week. The earthquake data obtained from the Bratislava seismograms were also punched on cards which were supplied regularly to the International Seismological Research Centre in Edinburgh.

This annual bulletin contains the final analysis of the records, and the completed and revised parameters of earthquakes and explosions. The sources of information regarding epicentres, origin times or shock magnitudes, frequently quoted, are

as follows: Bulletin of ISC, Vol. 3, 1966; Bulletin of BCIS, 1966; and Ten-day Bulletin of the Academy of Sciences of the U.S.S.R., Institute of Physics of the Earth, Moscow, 1966. The time standard used throughout is Greenwich Mean Time.

The epicentres of almost all earthquakes or explosions occurring in Czechoslovakia were determined at the Geophysical Institute of the Czechoslovak Academy of Sciences in Prague, or at the Geophysical Institute of the Slovak Academy of Sciences in Bratislava.

The analysis of earthquakes from small epicentral distances, explosions and rockbursts was realized by means of special travel-time curves published in the papers (1, 2, 3, 4). The analysis of earthquakes with $\Delta < 10^\circ$ was realized by means of travel time tables published in the papers (5, 6, 7, 8, 9).

For calculating the magnitudes on the basis of the relation

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

measurements of the amplitudes and periods of P (horizontal or vertical), PP (horizontal or vertical), S (horizontal), or of surface waves (horizontal components) were used. The standard calibrating functions (10) were used for PV, PH, PPH and SH body waves of shallow earthquakes ($h < 60$ km), and for their surface waves ($h < 100$ km). The value of magnitude for PPV waves as well as for all the other body waves of earthquakes with focal depth ($h > 60$ km) were calculated on the basis of Q-function (11). No magnitudes were calculated from the surface waves of earthquakes with ($h > 100$ km). The station correction S was not yet taken into consideration.

For the measurements of microseisms were used the records of the Mainka horizontal seismograph, 210 kg pendulum, at the station Hurbanovo. The maximum microseismic ground-amplitudes on the N-S and E-W components were read daily for the intervals 00-06, 06-12, 12-18, 18-24 GMT and tabulated. The period was determined by measuring the length to 0.1 mm of 2–4 whole periods in a well developed maximum group. The periods are given in whole seconds. The trace amplitudes were measured from peak, halved and the corresponding ground motion given to 0.1 μm.

The ten-day preliminary bulletins for Bratislava and Šrobárová were prepared by Mrs. T. Galanová and Mrs. A. Weihsová. The monthly bulletin and the measuring of microseisms for the station Hurbanovo were prepared by Mrs. A. Weihsová. The investigation of macroseismic observations of earthquakes felt on the territory of Slovakia was carried out by Mr. I. Brouček.

In preparing this bulletin the author has been in different parts assisted by Mrs. A. Weihsová, Mrs. B. Miková and Mrs. I. Bochničková.

Bratislava, December 1970

K. Mrázová

List of Abbreviations Used in this Bulletin

Ts	seismograph free period
Tg	galvanometer free period
Vo	static magnification
Vm	max. dynamic magnification
ϵ : 1	damping ratio
Ds	seismograph damping
Dg	galvanometer damping
r	max. deviation due to friction
σ^2	coupling factor
D	epicentral distances determined according to the time differences between S and P phases
Dc	epicentral distances calculated with regard to geocentric coordinates by computer
Az	azimuth of stations with respect to the epicentre, measured round the station from North through East; determined by computer
h	depth of focus in km
H	origin time, expressed in GMT
i, ei, e	impulsive, emerging or poorly defined beginning of a phase
+ and –	compressional or dilatational motion in a longitudinal wave
K	characteristics of microseisms:
1	disturbance showing microseisms in groups
2	continuous disturbance
3	disturbance of a mixed and irregular character
0	no microseismic movement
0.0	very weak microseismic movement: amplitude less than 0.1 micron
tt	disturbance could not be measured because of earthquake
v	disturbance could not be measured because of gusts of wind
. . .	disturbance could not be measured for other reasons

MLH, MLV magnitudes based on surface wave amplitudes
mPH, mPV, mPPH, mPPV, mSH magnitudes based on body wave amplitudes

Station Instrumentation

Coordinates of the Seismographic Stations

Station	Latitude	Longitude	Altitude (above mean sea level)	Lithologic foundation
Bratislava	48°10' 06'' N	17°06' 18'' E	270 m	Granite
Šrobárová	47°48' 48'' N	18°18' 48'' E	150 m	Bed of sand
Hurbanovo	47°52' 25'' N	18°11' 34'' E	115 m	Bed of sand
Skalnaté Pleso	49°11' 20'' N	20°14' 32'' E	1772 m	Granite

Instrumental Constants for 1966

Bratislava: "VEGIK", electromagnetic seismograph with galvanometric registration

Constants

Component	Ts	Tg	Ds	Dg	σ^2	Tm	Vm	Paper speed
Z	1.8	1.8	1.0	1.0	0.09	0.8	4100	20 mm/min
N	1.8	1.8	1.0	1.0	0.09	0.8	2200	20 mm/min
E	1.8	1.8	1.0	1.0	0.09	0.8	2200	20 mm/min

Šrobárová: "VEGIK", electromagnetic seismograph with galvanometric registration, two vertical seismographs

Constants

Component	Ts	Tg	Ds	Dg	σ^2	Vm	Paper speed
Z	1.25	1.25	1.0	1.0	0.08	4500	60 mm/min
Z	1.2	0.4	0.5	2.5	0.08	15000	60 mm/min

Hurbanovo: Mainka, horizontal seismograph, M = 210 kg, air damping, mechanical registration, component N and E

Constants

Month	Component	Ts	Vo	r (mm)	ϵ: 1	Paper speed
January	N	8.5	52	0.3	4.2	30 mm/min
	E	9.8	56	0.6	4.2	
February	N	8.7	40	0.2	4.1	
	E	9.7	53	0.6	4.4	
March	N	8.3	46	0.4	4.8	
	E	9.7	57	0.5	4.1	
April	N	8.1	48	0.3	4.4	
	E	9.6	56	0.6	4.5	
May	N	8.0	41	0.2	4.1	
	E	9.8	61	0.9	3.7	
June	N	8.5	40	0.6	5.5	
	E	9.8	57	0.6	4.1	
July	N	8.0	44	0.4	4.4	
	E	9.7	56	0.9	4.4	
August	N	8.3	45	0.3	4.4	
	E	9.9	54	0.9	3.9	
September	N	9.0	46	0.3	4.4	
	E	9.7	56	0.8	3.9	
October	N	8.0	46	0.3	4.2	
	E	9.6	52	0.4	4.4	
November	N	8.3	40	0.1	4.4	
	E	9.7	52	0.8	4.3	
December	N	8.2	49	0.5	4.9	
	E	10.6	48	0.7	3.9	

List of Seismic Phases Used in this Bulletin

Phase	
Pn, Sn	longitudinal and transverse waves refracted below the crust
Pg, Sg	waves in the upper crust
Pb, Sb	waves in the lower crust
P, S	direct longitudinal or transverse waves propagating in the mantle
PKP	direct longitudinal waves transversing the Earth's core without detailed identification
PKIKP	direct longitudinal wave propagating through the inner core [Travel time branch DF (5)]
PKHKP	direct longitudinal wave refracted in the intermediate zone between the inner and outer core. Phase symbol according to Bolt (9) [Travel-time branch GH]
PKP2	direct longitudinal wave propagating only through the outer core [Travel-time branch AB (5)]
PP, PPP, SS, SSS	P or S waves reflected once or twice at the Earth's surface
PcP, ScS	P or S waves reflected at the Earth's core boundary
PcS, ScP	P or S waves transformed on reflection at the Earth's core
PKKP	P waves reflected from the inner surface of the core, thereby passing twice through the core
PKPPKP	PKP waves reflected from the Earth's surface, passing twice through the core
SKS	S waves passing through the core as P waves, transformed back into S waves in the mantle
SKKS	S waves transformed on refraction in the core into P waves, reflected from the inner surface of the core and then transformed back into S waves

PS, SP, PPS, SPP PSPS, PPSS, SPSP etc.	P and S waves reflected and transformed at the Earth's surface
SKP	S wave transformed into P on refraction into the core
PKS	P wave transformed into S on the refraction when leaving the core
pP, sP, sPP etc.	P or S waves reflected from the surface as P waves, supposing deep focus earthquake
pS, sS, pSS etc.	P or S waves reflected from the surface as S waves
PH, PPH, SH	amplitude of the horizontal component of corresponding body waves
PV, PPV, SV	amplitude of the vertical component of corresponding body waves
LmV, LmH	waves of maximum amplitudes in the surface wave group (on the vertical or horizontal component)

The number following the branch notation of the phase refers to the figures on p. 6 of (5).

List of Quoted Agencies Reporting Epicentral Parameters

Code	Agency
ISC	International Seismological Centre, Edinburgh
USCGS	U.S. Coast and Geodetic Survey, U.S. Department of Commerce, Washington Science Centre
BCIS	Bureau Central International de Séismologie, Strasbourg
USAEC	U.S. Atomic Energy Commission, Washington
MOS	Academy of Sciences of the U.S.S.R., Institute of Physics of the Earth, Moscow
PAS	Seismological Laboratory, California, Institute of Technology, Pasadena
PRU	Průhonice, Geophysical Institute, Czechoslovak Academy of Sciences, Prague, Czechoslovakia
WAR	Warsaw, Geophysical Institute of the Polish Academy of Sciences, Warsaw

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Earthquake Observations at the Station Bratislava

Date	Phase	h	m	s	Remarks
2	eP	23	15	01	Southern Greece 37.67 ±0.050° N 23.18 ±0.046° E, H = 23 12 18 ±1,7 s, h = 12 ±11 km, Mag = 5,0 (ISC). M (MOS) = 4.7, Dc = 11.39°, Az = 154.84°.
3	iPKIKP ePKP2	13	52 52	20.5 29	West of Tonga 20.54 ±0.037° S 178.34 ±0.039° W, H = 13 33 33.9 ±0.34 s, h = 559 ±4.8 km, Mag = 4.9 (ISC). Dc = 149.75°. Az = 29.70°.
3	ePKIKP	16	03	46	New Hebrides 18.92 ±0.022° S 169.37 ±0.022° E, H = 15 44 44.8 ±0.25 s, h = 248 ±2.6 km, Mag = 5.3 (ISC). Dc = 143.16°, Az = 47.29°.
3	eP	18	28	47	Colombia 4.65 ±0.030° N 76.00 ±0.030° W, H = 18 16 05.1 ±0.48 s, h = 98 ±4.2 km, Mag = 5.1 (ISC).
4	eiP	07	58	31	Andaman Islands Region 11.94 ±0.035° N 95.13 ±0.035° E, H = 07 47 05 ±1.1 s, h = 77 ±9.8 km, Mag = 4.8 (ISC). M (MOS) = 5, Dc = 73.22°, Az = 90.79°.
4	iPg Lg	11	03 03	05 08	Slovakia (explosion).
4	eiPg Lg	15	59 59	17 20	Slovakia (explosion).
5	eP	17	32	51	Andaman Islands Region 13.39 ±0.063° N 95.61 ±0.049° E, H = 17 21 28.7 ±0.36 s, h = 32 ±1.8 km, Mag = 5.3 (ISC). M (MOS) = 5.7, mPV (BRA) = 6.2, Dc = 72.49°, Az = 89.40°. Pv: 1.5 s 0.3 μm.
6	ei	09	59	27	Slovakia (small local shock).
6	iPg	12	03	27.2	Slovakia (small local shock).
7–8					The apparatus was not operational.

Date	Phase	h	m	s	Remarks
8	eiP	22	51	28	Near Coast of Honshu, Japan 37.18 ±0.021° N 138.55 ±0.023° E, H = 22 39 22.8 ±0.21 s, h = 46 ±2.7 km, Mag = 5.3 (ISC). M (MOS) = 5, Dc = 80.32°, Az = 43.73°.
10–11					The apparatus was not operational.
11	eP	14	18	36	Near South Coast of Honshu, Japan 33.75 ±0.031° N 137.16 ±0.025° E, H = 14 06 18.0 ±0.85 s, h = 27 ±5.9 km, Mag = 4.9 (ISC). Dc = 82.45°, Az = 46.68°.
11	eiP eiPcP	14	28 29	51 00	Near South Coast of Honshu, Japan 33.76 ±0.024° N 137.20 ±0.021° E, H = 14 16 31.9 ±0.68 s, h = 27 ±4.7 km, Mag = 5.4 (ISC). M (MOS) = 6, Dc = 82.46°, Az = 46.64°.
13	eiP	10	53	67	Near Islands, Aleutian Islands 52.94 ±0.025° N 172.04 ±0.022° E, H = 10 41 12.9 ±0.11 s, h = 21 ±2.1 km, Mag = 5.7 (ISC). M (MOS) = 5.7, mPV (BRA) = 6.5, Dc = 77.04°, Az = 15.25°. PV: 1.5 s 0.7 μm.
16	iP	09	23	44	Near Islands, Aleutian Islands 52.85 ±0.028° N 172.00 ±0.025° E, H = 09 11 47.5 ±0.13 s, h = 8 km, Mag = 5.5 (ISC). M (MOS) = 5.5, Dc = 77.12°, Az = 15.31°.
16	eSg	12	37	18	Belgium 50.61 ±0.043° N 4.23 ±0.074° E, H = 12 32 48 ±5.2 s, h = 8 ±40 km (ISC). Dc = 8.75°, Az = 291.02°. Time relative
16	eiP	18	55	55	Eastern Mediterranean Sea 33.19 ±0.030° N 26.09 ±0.034° E, H = 18 52 01.1 ± 0.23 s, h = 33 km, Mag = 4.7 (ISC). Dc = 16.42°, Az = 152.40°.

Date	Phase	h	m	s	Remarks
17	ePKIKP	18	08	42	West of Tonga 20.93 ±0.029° S 178.46 ±0.030° W, H = 17 50 01 ±0.28 s, h = 564 ±3.9 km, Mag = 5.0 (ISC). Dc = 150.07°, Az = 30.19°.
19–20					The apparatus was not operational.
20	eP	08	57	04	Africa 5.2° N 38.8° E, H = 08 48 20, M (MOS) = 5. Dc = 46.66°, Az = 149.59°.
20	eiP	14	57	56	Near Islands, Aleutian Islands 52.98 ±0.052° N 171.74 ±0.044° E, H = 14 46 05 ±2.4 s, h = 22 ±17 km, Mag = 5.3 (ISC). Dc = 76.95°, Az = 15.42°.
20	eiPKIKP	15	21	33	Samoa Region 15.31 ±0.073° S 172.9 ±0.11° W, H = 15 01 54.4 ±0.37 s, h = 33 km, Mag = 5.0 (ISC). Dc = 146.22°, Az = 17.54°.
22	eP eL	00	27 31	04 48	Turkey 37.65 ±0.039° N 29.95 ±0.044° E, H = 00 23 44.3 ±0.63 s, h = 32 ±6.8 km, Mag = 4.8 (ISC). Dc = 14.10°, Az = 133.54°.
22	eP	07	49	38	Chiapas, Mexico 17.41 ±0.030° N 94.10 ±0.028° W, H = 07 36 49.4 ±0.34 s, h = 138 ±3.6 km, Mag = 4.9 (ISC). Dc = 90.59°, Az = 297.11°.
22	eiPKIKP	11	19	41	West of Tonga 18.07 ±0.038° S 178.42 ±0.034° W, H = 11 01 05.3 ±0.28 s, h = 603 ±4.0 km, Mag = 5.0 (ISC). Dc = 147.42°, Az = 28.22°.

Date	Phase	h	m	s	Remarks
22	eiP	14	38	51	Kodiak Island Region
	eisS		48	40	56.03 ±0.031° N 153.78 ±0.040° W,
					H = 14 27 07.9 ±0.15 s, h = 30 ±0.96 km,
					Mag = 5.6 (ISC). M (MOS) = 6, M (PAS) = 6,
					mPV (BRA) = 6.2,
					Dc = 75.89°, D = 77.8°, Az = 354.74°.
					PV: 1.5 s 0.3 μm.
23	ePn	01	32	28	Northern Italy
	eiPg		32	40	46.0 ±0.14° N 11.9 ±0.12° E,
	eiSg		33	31	H = 01 31 29 ±3.9 s, h = 16 ±34 km (ISC).
					D = 4°, Dc = 4.19°, Az = 240.54°
23	eSg	14	50	03	Poland
					50.25° N 18.98° E,
					H = 14 48 43.2 s, Mag = 3.2 (WAR).
					Dc = 2.42°, Az = 29.84°.
24	eiP	07	31	14	West Pakistan
					29.92 ±0.025° N 69.62 ±0.023° E,
					H = 07 23 09.8 s, h = 26 km,
					Mag = 5.5 (ISC). M (MOS) = 5.5, mPV (BRA) = 5.7,
					Dc = 43.75°, Az = 95.00°.
					PV: 1.5 s 0.15 μm.
27	eiP	19	51	10	Rat Islands, Aleutian Islands
					51.31 ±0.042° N 178.27 ±0.033° E,
					H = 19 39 05.9 ±0.8 s, h = 38 ±6.9 km,
					Mag = 5.3 (ISC). M (MOS) = 5,
					Dc = 79.59°, Az = 11.89°.
28	eiPKIKP	04	55	22	Fiji
					17.64 ±0.031° S 177.01 ±0.029° E,
					H = 04 36 45.3 ±0.29 s, h = 545 ±3.9 km,
					Mag = 5.2 (ISC). M (MOS) = 5.5,
					Dc = 145.41°, Az = 35.25°.
28	eiPKIKP	06	01	46	New Hebrides
					17.04 ±0.034° S 168.46 ±0.034° E,
					H = 05 42 14 ±2.3 s, h = 4 ±14 km,
					Mag = 5.6 (ISC). M (MOS) = 6.5, M (PAS) = 6.5,
					Dc = 141.11°, Az = 46.93°.

Date	Phase	h	m	s	Remarks
28	eP	08	59	40	Tadzhikistan-Sinkiang Border Region
	ePP	09	01	21	39.31 ±0.018° N 73.01 ±0.021° E,
					H = 08 52 05.4 ±0.29 s, h = 41 ±3.0 km,
					Mag = 5.1 (ISC). M (MOS) = 5,
					Dc = 40.55°, Az = 81.20°.
28	eSg	17	56	28	Switzerland
					46.6° N 7.6° E,
					H = 17 52 49 (BCIS).
					Dc = 6.64°, Az = 259.87°.
28	eiP	22	49	43	Kamchatka
					51.55 ±0.018° N 156.97±0.025° E,
					H = 22 38 14.2 ±0.22 s, h = 124 ±2.1 km,
					Mag = 5.5 (ISC).
					Dc = 74.89°, Az = 24.64°.
29	eP	08	04	07	Kurile Islands
					45.50 ±0.055° N 151.61 ±0.057° E,
					H = 07 52 08.2 ±0.60 s, h = 41 ±4.8 km,
					Mag = 4.7 (ISC). M (MOS) = 4.5,
					Dc = 78.57°, Az = 30.78°.
30	eiPKIKP	11	24	40	Loyalty Islands Region
					22.14 ±0.058° S 170.09 ±0.068° E,
					H = 11 05 02 ±1.1 s, h = 35 ±12 km,
					Mag = 5.2 (ISC).
					Dc = 146.24°, Az = 49.26°.
31	ePKIKP	08	53	14	Loyalty Islands Region
					22.08 ±0.051° S 170.02 ±0.058° E,
					H = 08 33 40.9 ±0.45 s, h = 25 km (ISC).
					Dc = 146.15°, Az = 49.30°.

Date	Phase	h	m	s	Remarks
2	ePn	02	26	25	Northern Italy 46.3 ±0.11° N 12.7 ±0.12° E, H = 02 25 23 ±1.1 s, h = 0 km (ISC). Dc = 3.55°, Az = 239.72°.
2	eiPKP2	05	55	49	Tonga 17.74 ±0.060° S 173.22 ±0.061° W, H = 05 34 10 ±1.7 s, h = 104 ±16 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 148.50°, Az = 19.08°.
2–3					The apparatus was out of order.
4	eiPKP2	04	22	25	Tonga 15.45 ±0.069° S 173.27 ±0.056° W, H = 04 02 52 ±1.7 s, h = 83 ±16 km, Mag = 4.7 (ISC). Dc = 146.27°, Az = 18.23°.
4	eiPKP	05	24	19	Tonga 21.46 ±0.060° S 174.04 ±0.057° W, H = 05 04 21.9 ±0.32 s, h = 7 km, Mag = 4.5 (ISC). Dc = 151.89°, Az = 22.46°.
4	eP	08	41	26	Greece 34.37 ±0.041° N 23.94 ±0.038° E, H = 08 38 03 ±1.4 s, h = 33 ±10 km, Mag = 4.7 (ISC). Dc = 14.70°, Az = 157.18°.
4	eiPKIKP	10	58	19	New Hebrides 15.93 ±0.023° S 167.91 ±0.023° E, H = 10 39 11.5 ±0.33 s, h = 183 ±3.2 km, Mag = 5.6 (ISC). Dc = 139.90°, Az = 46.76°.
4	ePKIKP	15	56	18	Tonga 21.47 ±0.048° S 174.14 ±0.047° W, H = 15 36 33.8 ±0.23 s, h = 55 km, Mag = 4.9 (ISC). Dc = 151.87°, Az = 22.66°.

Date	Phase	h	m	s	Remarks
5	+iP	02	04	06	Greece
	eiSg		06	58	39.10 ±0.020° N 21.74 ±0.020° E,
	Lm		07.5		H = 02 01 45.3 ±0.63 s, h = 16 ±4.7 km, Mag = 5.6 (ISC). M (MOS) = 6, MLH (BRA) = 6.7, Dc = 9.66°, Az = 158.00°. LmH: 4.5 s 26 μm.
5	eiP	03	00	21	Greece
	eiSg		03	04	39.11 ±0.035° N 21.91 ±0.039° E, H = 02 58 01.2 s, h = 50 ±5.5 km, Mag = 6.0 (ISC). M (MOS) = 5, Dc = 9.70°, Az = 157.24°.
5	eiP	15	23	36	Yunan Province, China 26.22 ±0.029° N 103.21 ±0.025° E, H = 15 12 32.9 ±0.15 s, h = 32 ±3.4 km, Mag = 5.6 (ISC). M (MOS) = 6.5–6.75, Dc = 68.45°, Az = 74.48°.
5	–iP	16	27	39.5	Kurile Islands
	eiPP		30	27	50.04 ±0.020° N 155.38 ±0.028° E, H = 16 16 03.9 ±0.36 s, h = 121 ±3.3 km. Mag = 5.8 (ISC). MPV (BRA) = 6.0, M (MOS) = 5.5–6.0, Dc = 75.78°, Az = 26.28°. PV: 1.4 s 1.1 μm.
6	eiP	23	39	19	Southern Alaska 60.37 ±0.021° N 152.30 ±0.039° W, H = 23 28 06.6 ±0.57 s, h = 78 ±5.2 km, Mag = 5.1 (ISC). Dc = 71.48°, Az = 354.47°.
7	–iP	04	34	17.5	West Pakistan
	Lm	05	01		29.92 ±0.028° N 69.68 ±0.025° E, H = 04 26 11.5 ±0.16 s, h = 10 km, Mag = 5.7 (ISC). M (MOS) = 5.5, MLH (BRA) = 6.2, mPV (BRA) = 6.6, Dc = 43.79°, Az = 94.95°. PV: 1.4 s 0.9 μm, LmH: 12 s 18 μm.

Date	Phase	h	m	s	Remarks
7	eP	05	29	50	West Pakistan 30.13 ±0.036° N 69.94 ±0.035° E, H = 05 21 46 ±2.2 s, h = 10 ±14 km, Mag = 5.2 (ISC). M (MOS) = 5.5, Dc = 43.84°, Az = 94.51°.
7	ePn	09	30	32	Yugoslavia 45.0 ±0.12° N 16.9 ±0.13° E, H = 09 29 41 ±1.2 s, h = 0 km, Dc = 3.20°, Az = 182.63°.
7	ei	11	00	56	
7	iP	23	14	41	West Pakistan
	eiPP		16	16	30.25 ±0.026° N 69.89 ±0.025° E,
	eiPPP		16	56	H = 23 06 37.4 ±0.16 s, h = 28 ±1.3 km,
	eiS		21	11	Mag = 5.6 (ISC). M (MOS) = 6.5,
	Lm		38		MLH (BRA) = 5.8, mPV (BRA) = 6.2,
					Dc = 43.72°, D = 44.1°, Az = 94.42°.
					PV: 1.4 s 0.4 μm, LmH: 12 s 7.4 μm.
8	eP	20	10	11	Greece-Bulgaria Border Region
	eiSg		13	02	41.08 ±0.027° N 24.97 ±0.036° E,
					H = 20 08 04 ±1.0 s, h = 21 ±8.2 km,
					Mag = 4.7 (ISC). M (MOS) = 4.5,
					Dc = 9.03°, Az = 138.78°.
9	eP	08	26	12	Off West Coast of Northern Sumatra
					2.07 ±0.058° N 94.63 ±0.050° E,
					H = 08 14 10 ± 2.6 s, h = 82 ±24 km,
					Mag = 4.8 (ISC).
					Dc = 80.15°, Az = 97.95°.
10	eiP	05	41	54	South of Honshu, Japan
					31.14 ±0.042° N 141.75 ±0.045° E,
					H = 05 29 12 ±1.7 s, h = 23 ±11 km,
					Mag = 5.3 (ISC). M (MOS) = 5.5,
					Dc = 86.80°, Az = 44.95°.
10	eiP	14	34	41	Marianas Region
					20.73 ±0.019° N 146.29 ±0.023° E,
					H = 14 21 09 ±1.5 s, h = 29 ±10 km,
					Mag = 5.8 (ISC). M (MOS) = 6.25,
					Dc = 97.73°, Az = 47.07°.

Date	Phase	Remarks	h m s
10	eiP	20 25 10	Kurile Islands 47.13 ±0.029° N 150.89 ±0.032° E, H = 20 13 34.4 ±0.26 s, h = 170 ±2.6 km, Mag = 5.1 (ISC). Dc = 76.91°, Az = 30.40°.
12	ePKIKP	11 58 49	Tonga 18.35 ±0.036° S 174.73 ±0.033° W, H = 11 39 27.0 ±0.77 s, h = 201 ±7.7 km, Mag = 4.7 (ISC). Dc = 148.74°, Az = 22.04°.
12	eP	13 38 43	Greece 38.84 ±0.063° N 21.43 ±0.081° E, H = 13 36 22.2 ±0.79 s, h = 46 ±10 km, Mag = 4.8 (ISC). Dc = 9.84°, Az = 159.84°.
13	–iP	05 05 28	Eastern Kazakhstan
	eiSS	13 56	49.77 ±0.021° N 78.10 ±0.029° E, H = 04 57 56.9 ±0.11 s, h = 0 km, Mag = 6.1 (ISC). mPV (BRA) = 6.5, Dc = 39.10°, Az = 64.04°, PV: 1.4 s 0.8 μm.
13	eP	10 55 41	Junan Province, China 26.17 ±0.027° N 103.25 ±0.023° E, H = 10 44 38 ±1.6 s, h = 6 ±9.6 km, Mag = 5.4 (ISC). M (MOS) = 6, Dc = 68.51°, Az = 74.49°.
13	eP	19 17 52	West Pakistan 29.95 ±0.030° N 69.67 ±0.024° E, H = 19 09 45.0 ±0.19 s, h = 9 km, Mag = 4.9 (ISC). M (MOS) = 5.25, Dc = 43.77°, Az = 94.93°.
14	eP	18 01 22	Eastern Mediterranean Sea 34.96 ±0.035° N 27.11 ±0.036° E, H = 17 57 50.1 ±0.61 s, h = 43 ±5.7 km, Mag = 4.8 (ISC). Dc = 15.15, Az = 146.92°.

Date	Phase	h	m	s	Remarks
14	eP	20	19	14	Greece 38.82 ±0.064° N 21.42 ±0.089° E, H = 20 16 58.0 ±0.95 s, h = 39 ±12 km, Mag = 4.4 (ISC). Dc = 9.85°, Az = 159.91°.
15–21					The timing mechanism was out of order.
22	iPKP	05	21	31.7	New Britain Region 5.41 ±0.020° S 151.57 ±0.023° E, H = 05 02 40.7 ±0.56 s, h = 59 ±5.2 km, Mag = 6.0 (ISC). M (MOS) = 6.75, Dc = 122.44°, Az = 57.34°.
23	eiPg	12	09	41	Explosion.
25	eiPKIKP	23	10	24.6	Samoa Region 15.25 ±0.078° S 172.99 ±0.073° W, H = 22 50 46 ±3.7 s, h = 16 +27 km. Mag = 5.3 (ISC). mPV (BRA) = 6.2, M (MOS) = 6.0, Dc = 146.14°, Az = 17.67°, PV: 1.4 s 0.3 μm.
26	eiP	00	45	43.7	Near Islands, Aleutian Islands 52.70 ±0.040° N 173.52 ±0.034° E, H = 00 33 47.3 ±0.19 s, h = 17 km, Mag = 5.4 (ISC). M (MOS) = 5, Dc = 77.52°, Az = 14.44°.
26	eiPKP2	11	41	27	Tonga 15.4 ±0.11° S 173.13 ±0.084° W, H = 11 21 52 ±2.2 s, h = 78 ±21 km, Mag = 4.7 (ISC). Dc = 146.25°, Az = 17.97°.
28	eiP	02	13	33	Eastern Sea of Japan 43.69 ±0.015° N 139.67 ±0.023° E, H = 02 02 12.9 ±0.15 s, h = 218 ±1.9 km, Mag = 5.5 (ISC). Dc = 75.53°, Az = 39.15°.
28	eiP	13	48	00	Ryukyu Islands 29.22 ±0.024° N 130.28 ±0.024° E, H = 13 35 41.3 ±0.36 s, h = 51 ±3 km, Mag = 5.6 (ISC). M (MOS) = 5, Dc = 82.50°, Az = 54.15°.

Date	Phase	h	m	s	Remarks
2	+iP	02	41	37	Eastern Caucasus 43.02 ±0.025° N 45.78 ±0.025° E, H = 02 37 03.4 ±0.96 s, h = 27±7.6 km, Mag = 5.0 (ISC). mPV (BRA) = 5.7, Dc = 20.65°, Az = 93.73°. PV: 1.4 s 0.56 μm.
3	eiP	03	37	10	Kurile Islands 48.29 ±0.020° H 154.36 ±0.025° E, H = 03 25 29.2 ±0.34 s, h = 53 ±3.1 km, Mag = 5.8 (ISC). mPV (BRA) = 6.2, Dc = 77.02°, Az = 27.72°.
5	eiPKIKP	00	18	54	North Island, New Zealand 38.56 ±0.074° S 177.66 ±0.086° E, H = 23 58 58.2 ±0.52 s, h = 31 ±0.71 km, Mag = 5.6 (ISC). Dc = 162.95°, Az = 62.89°.
5	eiPKIKP	16	04	39	Fiji Region 17.52 ±0.067° S 176.23 ±0.055° E, H = 15 45 06 ±1.2 s, h = 35 ±11 km, Mag = 5.3 (ISC). Dc = 144.99°, Az = 36.35°.
5	eP	21	04	29	North of Ascension Island 0.08 ±0.050° S 17.98 ±0.042° W, H = 20 54 45.7 ±0.27 s, h = 31 ±11 km, Mag = 5.0 (ISC). Dc = 56.86°, Az = 223.35°.
5	ePKIKP	23	09	21	Tonga 21.96 ±0.067° S 174.67 ±0.068° W, H = 22 49 30 ±4.3 s, h = 5 km, Mag = 5.0 (ISC). Dc = 152.19°, Az = 23.96°.
6	eP	02	19	49	Tibet 31.51 ±0.029° N 80.55 ±0.032° E, H = 02 10 52 ±2.1 s, h = 5 ±12 km, Mag = 5.3 (ISC). Dc = 50.06°, Az = 85.17°.

Date	Phase	h	m	s	Remarks
6	+iP	02	24	48.5	Tibet
	eiS		32	00	31.49 ±0.030° N 80.50 ±0.028° E,
	Lm		49		H = 02 15 57.2 ±0.72 s, h = 50 ±6.5 km,
					Mag = 6.0 (ISC). mPV (BRA) = 6.1,MLH(BRA)=6.3,
					D = 50.9°, Dc = 50.05°, Az = 85.23°.
					PV: 1.5 s 0.26 μm, LmH: 12 s 18 μm.
6	ePKIKP	18	21	40	South of Fiji
					24.09 ±0.053° S 176.94 ±0.053° W,
					H = 18 01 48.7 ±0.27 s, h = 17 ±1.0 km,
					Mag = 5.1 (ISC).
					Dc = 153.51°, Az = 29.82°.
7	eiP	01	20	37	Turkey
	eiS		24	23	39.20 ±0.025° N 41.60 ±0.022° E,
	Lm		30		H = 01 16 08.9 ±0.79 s, h = 26 ±6.1 km.
					Mag = 5.2 (ISC). mPV (BRA) = 5.4,MLH(BRA)=5.0,
					D = 21.3°, Dc = 19.78°, Az = 107.87°.
					PV: 1.5 s 0.4 μm, LmH: 9 s 3.1 μm,
7	eiP	17	16	42	Eastern Caucasus
					42.97 ±0.045° N 45.90 ±0.049° E.
					H = 17 12 1.0 ±0.63 s, h = 36 ±7.7 km,
					Mag = 4.6 (ISC).
					Dc = 20.75°, Az = 93.75°.
7	eiPg	21	22	21	Austria
	eiSg		22	47.8	47.23 ±0.080° N 14.4 ±0.14° E,
					H = 21 21 43.6 ±0.91 s, h = 0 km (ISC).
					D = 2.0°, Dc = 2.05°, Az = 243.81°.
7	eiP	21	40	12	Northeastern China
	Lm	22	07		37.35 ±0.048° N 114.96 ±0.052° E,
					H = 21 29 17.6 ±0.23 s, h = 34 ±2.9 km,
					Mag = 5.6 (ISC). MLH (BRA) = 7.4, mPV(BRA)=6.2,
					Dc = 67.93°, Az = 58.42°.
					LmH: 14 s 170 μm, mPV: 1.5 s 0.26 μm.
8	eiPKP2	00	37	57	Tonga
					19.02 ±0.053° S 173.17 ±0.059° W,
					H = 00 18 11 ±1.5 s, h = 45 ±13 km,
					Mag = 5.2 (ISC).
					Dc = 149.75°, Az = 19.57°.

Date	Phase	h	m	s	Remarks
8	eiP	05	54	54	Molucca Passage
					1.85 ±0.028° N 126.40 ±0.036° E,
					H = 05 41 02 ±1.8 s, h = 17 ±13 km,
					Mag = 5.8 (ISC).
					Dc = 101.38°, Az = 74.21°.
8	ePn	18	54	07	Greece
					38.87 ±0.051° N 21.42 ±0.063° E,
					H = 18 51 47.5 ±0.71 s, h = 44 ±9.9 km,
					Mag = 4.7 (ISC).
					Dc = 9.81°, Az = 159.83°.
8	ePP	21	04	01	Chile-Bolivia Border Region
					20.00 ±0.029° S 68.93 ±0.048° W,
					H = 20 46 11.2 ±0.53 s, h = 108 ±5.0 km,
					Mag = 5.5 (ISC).
					Dc = 102.07°, Az = 253.61°.
8	ePKP2	23	35	40	Tonga Region
					22.1 ±0.13° S 174.7 ±0.13° W,
					H = 23 15 45.7 ±0.77 s, h = 50 km,
					Mag = 4.6 (ISC).
					Dc = 152.32, Az = 24.11°.
10	eP	04	38	11	South of Honshu, Japan
	eipP		39	41	32.30 ±0.018° N 137.71 ±0.019° E,
	eiPP		41	35	H = 04 26 21.3 ±0.13 s, h = 397 ±1.1 km,
					Mag = 5.3 (ISC).
					Dc = 83.89°, Az = 47.14°.
10	eiP	11	23	24	Turkey
					39.94 ±0.096° N 41.58 ±0.079° E,
					H = 11 19 01 ±1.2 s, h = 45 ±14 km,
					Mag = 4.4 (ISC).
					Dc = 19.36°, Az = 106.07°.
10	eiPKIKP	12	34	26	West of Tonga
	eipPKIKP		35	28	19.30 ±0.037° S 177.00 ±0.036° W,
					H = 12 15 17.7 ±0.82 s, h = 302 ±8.7 km,
					Mag = 5.0 (ISC).
					Dc = 149.01°, Az = 26.56°.

Date	Phase	h	m	s	Remarks
11	eiP	20	05	13	Crete
	ipP		05	19	34.40 ±0.031° N 24.23 ±0.028° E,
					H = 20 01 45 ±1.1 s, h = 30 ±7.8 km,
					Mag = 4.9 (ISC).
					Dc = 14.75°, Az = 156.25°.
11	eiP	23	45	37	North Atlantic Ridge
					28.36 ±0.037° N 43.93 ±0.023° W,
					H = 23 36 42.4 ±0.18 s, h = 33 km,
					Mag = 5.0 (ISC).
					Dc = 50.45°, Az = 269.95°.
12	eiPKP2	14	39	18	Samoa Region
					14.95 ±0.052° S 173.63 ±0.076° W,
					H = 14 19 35.9 ±0.19 s, h = 19 km,
					Mag = 4.9 (ISC).
					Dc = 145.71°, Az = 18.64°.
12	eiPKP2	14	46	37	Tonga
					15.36 ±0.063° S 173.00 ±0.079° W,
					H = 14 26 58.7 ±0.29 s, h = 33 km,
					Mag = 5.1 (ISC).
					Dc = 146.24°, Az = 17.73°.
12	iP	16	43	36	Taiwan Region
	iScS		53	58	24.24 ±0.020° N 122.67 ± 0.022° E,
					H = 16 31 19.9 ±0.36 s, h = 42 ±3.3 km,
					Mag = 6.5 (ISC).
					MLH = 7.8, mPV = 7.6, mPH = 7.6 (BRA).
					Dc = 81.99°, Az = 62.63°,
					LmH: 15 s 290 μm, PV: 1.6 s 8.6 μm,
					PH: 1.6 s 2.8 μm.
13	eiP	01	45	36	North Atlantic Ridge
					28.36 ±0.053° N 43.93 ±0.037° W,
					H = 01 36 35.0 ±0.28 s, h = 33 km,
					Mag = 4.7 (ISC).
					Dc = 50.45°, Az = 269.95°.
13	eiPKIKP	18	18	22	Easter Island Cordillera
					55.18 ±0.097° S 126.6 ±0.13° W,
					H = 17 58 35.2 ±0.36 s, h = 33 km,
					Mag = 5.1 (ISC).
					Dc = 156.63°, Az = 238.89°.

Date	Phase	h	m	s	Remarks
13	ePKIKP	19	00	23	Tonga
					21.07 ±0.049° S 175.07 ±0.047° W,
					H = 18 40 38 ±1.2 s, h = 36 ±11 km,
					Mag = 5.2 (ISC).
					Dc = 151.24°, Az = 24.17°.
14	eiP	03	31	35	Central Mid-Atlantic Ridge
					1.01 ±0.070° N 27.70 ±0.048° W,
					H = 03 21 37 ±1.7 s, h = 70 ±16 km,
					Mag = 4.8 (ISC).
					Dc = 60.79°, Az = 233.82°.
14	eiP	14	10	59	Greece
					39.07 ±0.057° N 21.36 ±0.070° E,
					H = 14 08 41.2 ±0.77 s, h = 45 ±10 km,
					Mag = 4.6 (ISC).
					Dc = 9.60°, Az = 159.74°.
16–17					The apparatus was out of order.
17	+iPKIKP	16	09	07	West of Tonga
					21.08 ±0.024° S 179.15 ±0.026° W,
					H = 15 50 32.3 ±0.26 s, h = 627 ±3.6 km,
					Mag = 5.9 (ISC).
					Dc = 149.98°, Az = 39.49°.
18	ePKIKP	21	05	46	New Hebrides
					20.64 ±0.023° S 169.66 ±0.029° E,
					H = 20 46 20.9 ±0.43 s, h = 89 ±4.4 km,
					Mag = 4.9 (ISC).
					Dc = 144.76°, Az = 48.43°.
19	eP	08	23	42	Hokkaido, Japan
					43.08 ±0.030° N 145.94 ±0.035° E,
					H = 08 11 47.4 ±0.31 s, h = 72 ±2.5 km,
					Mag = 5.1 (ISC).
					Dc = 78.58°, Az = 35.61°.
19	eP	12	45	12	Explosion.
20	eiP	01	51	30	Republic of the Congo
	eisS		58	49	0.81 ±0.034° N 29.90 ±0.041° E,
					H = 01 42 51.8 ±0.21 s, h = 34 ±1.5 km,
					Mag = 6.0 (ISC).
					Dc = 48.46°, Az = 162.79°.

Date	Phase	h	m	s	Remarks
20	eP	05	57	25	Eastern Kazakhstan 49.72 ±0.020° N 78.07 ±0.034° E, H = 05 49 57.8 ±0.12 s, h = 0 km, Mag = 6.0 (ISC). Dc = 39.10°, Az = 64.12°.
21	ePb	21	40	18	Adriatic Sea 42.9 ±0.37° N 17.5 ±0.29° E, H = 21 39 02 ±3.8 s, h = 21 km (ISC). Dc = 5.28°, Az = 176.84°.
22	e	02	45	01	Yugoslavia 43.45 ±0.055° N 17.67 ±0.051° E, H = 02 43 39.6 ±0.4 s, h = 0 km (ISC). Dc = 4.47°, Az = 175.01°.
22–30					The apparatus was inoperational.
31	eiP eipP eiPcP	23	45 46 47	22 08 18	Hindu Kush Region 36.46 ±0.017° N 70.73 ±0.020° E, H = 23 38 01.8 ±0.19 s, h = 209 ±2.0 km, Mag = 5.1 (ISC). Dc = 40.57°, Az = 86.39°.

Date	Phase	h	m	s	Remarks
1	eiPg	08	19	46	Small local shock.
1	eiP eiS	13	17 19	33 27	Greece 38.72 ±0.047° N 21.49 ±0.050° E, H = 13 15 05.2 ±0.61 s, h = 45 ±7.2 km, Mag = 4.7 (ISC). D = 10.1°, Dc =9.97°, Az = 159.78°.
1	eiSg	17	57	28	Yugoslavia 43.1° N 20.5° E, H = 17 54 15 (BCIS), Mag (BEO) = 3.8, Dc = 5.60°, Az = 153.61°.
2	eiP eiPP	02	06 09	00 34	Oaxaca, Mexico 16.52 ±0.085° N 97.44 ±0.074° W, H = 01 52 40 ±1.4 s, h = 39 ±11 km, Mag = 5.3 (ISC). Dc = 93.26°, Az = 299.08°.
2	eiP	22	55	33	Near East Coast of Honshu, Japan 38.54 ±0.019° N 142.10 ±0.038° E, H = 22 43 22.3 ±0.30 s, h = 48 ±2.7 km, Mag = 5.1 (ISC). Dc = 80.80°, Az = 40.60°.
3	–eiP	04	55	54	Near East Coast of Honshu, Japan 36.66 ±0.015° N 141.06 ±0.022° E, H = 04 43 39.2 ±0.21 s, h = 52 ±1.7 km, Mag = 5.6 (ISC). Dc = 81.90°, Az = 42.35°.
3	eiP eiSg	11	38 41	42 47	Greece 38.94 ±0.032° N 21.53 ±0.03° E, H = 11 36 26.1 ±0.49 s, h = 34 ±5.4 km, Mag = 4.8 (ISC). Dc = 9.76°, Az = 159.22°.
4	eiP	03	03	00	Andaman Islands Region 11.89 ±0.078° N 92.69 ±0.069° E, H = 02 51 37 ±0.42 s, h = 21 ±0.90 km, Mag = 4.9 (ISC). Dc = 71.63°, Az = 92.66°.

Date	Phase	h	m	s	Remarks
4	+eiP	06	53	34	Andaman Islands Region 11.84 ±0.047° N 92.59 ±0.043° E, H = 06 42 12.8 ±0.24 s, h = 22 km, Mag = 5.1 (ISC). Dc = 71.60°, Az = 92.77°.
6	iP	22	40	20.6	Kodiak Island Region 56.47 ±0.038° N 154.64 ±0.062° W, H = 22 28 37.5 ±0.26 s, h = 28 ±1.6 km, Mag = 5.1 (ISC). Dc = 75.50°, Az = 355.28°.
7	iP	03	28	17	Southern Greece 37.83 ±0.039° N 21.14 ±0.037° E, H = 03 25 45 ±1.2 s, h = 25 ±9.7 km, Mag = 4.8 (ISC). Dc = 10.75°, Az = 162.61°.
7	eiPKIKP	05	22	33.5	Tonga 15.58 ±0.073° S 174.39 ±0.077° W, H = 05 02 57 ±2.1 s, h = 33 ±19 km, Mag = 4.9 (ISC). Dc = 146.15°, Az = 20.17°.
7	iP	09	54	56.5	Ryukyu Islands 29.25 ±0.022° N 127.57 ±0.026° E, H = 09 42 32.0 ±0.54 s, h = 42 ±4.8 km, Mag = 5.6 (ISC). Dc = 83.31°, Az = 57.90°.
7	ePKIKP	14	56	18	South of Tonga 24.04 ±0.045° S 175.15 ±0.040° W, H = 14 36 33.9 ±0.21 s, h = 70 ±3.9 km, Mag = 5.0 (ISC). Dc = 154.03°, Az = 26.31°.
7	eiPn	19	40	51	Northern Italy 44.3 ±0.14° N 7.4 ±0.12° E, H = 19 38 58 ±1.3 s, h = 0 km, Mag = 4.4 (ISC). Dc = 7.76°, Az = 243.69°.
8	–iP	01	58	24.4	Near East Coast of Kamchatka 51.24 ±0.016° N 157.76 ±0.021° E, H = 01 46 46.8 ±0.32 s, h = 61 ±3.0 km, Mag = 6.0 (ISC). Dc = 75.39°, Az = 24.32°.

Date	Phase	h	m	s	Remarks
8	–iP	05	59	03	North Atlantic Ocean 52.70 ±0.026° N 33.27 ±0.021° W, H = 05 52 40.5 ±0.11 s, h = 34 ±2.0 km, Mag = 5.2 (ISC). Dc = 31.86°, Az = 297.39°.
8	eiPKIKP	11	29	55.7	Tonga 15.00 ±0.054° S 175.38 ±0.045° W, H = 11 10 22 ±1.4 s, h = 40 ±13 km, Mag = 5.1 (ISC). Dc = 145.36°, Az = 21.56°.
8	eiP	22	22	39	Kodiak Island Region 56.62 ±0.039° N 152.29 ±0.059° W, H = 22 10 57.7 ±0.23 s, h = 31 ±2.1 km, Mag = 5.0 (ISC). Dc = 75.21°, Az = 353.96°.
8	eiP	23	58	47	Near Islands, Aleutian Islands 52.39 ±0.052° N 173.58 ±0.044° E, H = 23 46 51.0 ±0.27 s, h = 41 ±1.6 km, Mag = 4.8 (ISC). Dc = 77.83°, Az = 14.40°.
9	eiP	02	47	22	Costa Rica 9.54 ±0.029° N 84.17 ±0.026° W, H = 02 34 24.7 ±0.63 s, h = 50 ±5.7 km, Mag = 5.3 (ISC). Dc = 90.39°, Az = 284.68°.
9	eiP	02	55	08.7	Costa Rica 9.48 ±0.034° N 84.20 ±0.030° W, H = 02 42 10.3 ±0.64 s, h = 44 ±5.8 km, Mag = 5.7 (ISC). Dc = 90.45°, Az = 284.67°.
9	eiP	20	20	20.4	Kodiak Island Region 56.52 ±0.034° N 152.20 ±0.062° W, H = 20 08 35.8 ±0.24 s, h = 14 km, Mag = 5.2 (ISC). Dc = 75.30°, Az = 353.90°.
10	eiP	10	51	44	Near Islands, Aleutian Islands 53.22 ±0.053° N 170.99 ±0.037° E, H = 10 39 52.8 ±0.26 s, h = 25 ±2.7 km, Mag = 5.1 (ISC). Dc = 76.58°, Az = 15.79°.

Date	Phase	h	m	s	Remarks
10	eP	16	55	18	Near Coast of Central Chile 31.41 ±0.020° S 71.04 ±0.041° W, H = 16 36 14.6 ±0.44 s, h = 58 ±4.0 km, Mag = 5.6 (ISC). Dc = 111.51°, Az = 246.72°.
11	eiP	16	17	38.5	Near Islands, Aleutian Islands 52.78 ±0.058° N 173.07 ±0.039° E, H = 16 05 42 ±1.9 s, h = 21 ±14 km, Mag = 4.9 (ISC). Dc = 77.37°, Az = 14.69°.
11	eiP	16	50	22.5	Afghanistan-USSR Border Region 38.93 ±0.026° N 70.61 ±0.029° E, H = 16 42 50.7 ±0.73 s, h = 3 ±4.7 km, Mag = 4.7 (ISC). Dc = 39.16°, Az = 83.24°.
11	–iP	17	30	49	Michoacan, Mexico 18.38 ±0.035° N 102.31 ±0.032° W, H = 17 17 33.9 ±0.58 s, h = 66 ±4.6 km, Mag = 5.4 (ISC). Dc = 94.55°, Az = 303.92°.
11	–iP	23	12	04.5	Kodiak Island Region 56.57 ±0.033° N 152.07 ±0.047° W, H = 23 00 22.9 ±0.18 s, h = 24 ±1.7 km, Mag = 5.3 (ISC). Dc = 75.24°, Az = 353.83°.
12	e	23	57	15	Near Coast of Central Chile 38.22 ±0.041° S 73.17 ±0.090° W, H = 23 37 37 ±3.3 s, h = 7 ±19 km, Mag = 5.6 (ISC). Dc = 117.40°, Az = 242.52°.
13	ePKIKP	03	54	07	Near Coast of Central Chile 38.12 ±0.033° S 73.03 ±0.070° W, H = 03 35 17.5 ±0.79 s, h = 47 ±6.6 km, Mag = 5.6 (ISC). Dc = 117.25°, Az = 242.53°.

Date	Phase	h	m	s	Remarks
14	eP	16	46	08	Northern Sumatra 4.80 ±0.059° N 96.18 ±0.051° E, H = 16 33 30 ±3.2 s, h = 31 ±23 km, Mag = 4.9 (ISC). Dc = 79.15°, Az = 94.95°.
14	eP	18	55	11	Crete 34.55 ±0.045° N 23.86 ±0.041° E, H = 18 51 44 ± 1.6 s, h = 14 ± 9.7 km, Mag = 4.8 (ISC). Dc = 14.51°, Az = 157.20°.
14	eiP	21	13	44	Afghanistan-USSR Border Region 38.92 ±0.021° N 70.52 ±0.024° E, H = 21 06 15.2 ±0.73 s, h = 12 ±4.6 km, Mag = 5.1 (ISC). Dc = 39.10°, Az = 83.31°.
16	eP	01	38	55	Kodiak Island Region 56.93 ±0.022° N 153.61 ±0.031° W, H = 01 27 14.1 ±0.11 s, h = 23 km, Mag = 5.6 (ISC). Dc = 74.99°, Az = 354.75°.
16	eiP	10	25	52	Near East Coast of Honshu, Japan 35.06 ±0.028° N 141.72 ±0.034° E, H = 10 13 25.8 ±0.45 s, h = 38 ±3.6 km, Mag = 5.1 (ISC). Dc = 83.52°, Az = 42.80°.
16	eiP	11	43	38	Dominican Republic Region 19.03 ±0.058° N 70.34 ±0.055° W, H = 11 32 00 ±2.5 s, h = 23 ±19 km, Mag = 4.9 (ISC). Dc = 74.39°, Az = 281.11°.
16	eiP	14	52	02	Republic of the Congo 0.76 ±0.033° N 29.86 ±0.048° E, H = 14 43 17.8 ±0.23 s, h = 11 km, Mag = 5.1 (ISC). Dc = 48.5°, Az = 162.86°.

Date	Phase	h	m	s	Remarks
18	eiPKIKP	15	42	22.5	West of Tonga 21.19 ±0.040° S 178.42 ±0.053° W, H = 15 23 27.4 ±0.53 s, h = 490 ±6.8 km, Mag = 5.0 (ISC). Dc = 150.33°, Az = 30.30°.
18	eiP	08	22	20	Eastern Gulf of Aden 12.97 ±0.030° N 48.40 ±0.032° E, H = 08 14 22 ±1.8 s, h = 84 ±17 km, Mag = 5.1 (ISC). Dc = 43.67°, Az = 132.84°.
18	eiP	10	01	48	Greece 38.82 ±0.064° N 21.51 ±0.087° E, H = 09 59 22 ±0.85 s, h = 39 ±11 km, Mag = 4.3 (ISC). Dc = 9.87°, Az = 159.52°.
20	-iP	16	47	07	Eastern Caucasus
	eiS		51	16	41.71 ±0.029° N 48.18 ±0.028° E, H = 16 42 06.6 ±0.48 s, h = 37 ±4.9 km, Mag = 5.3 (ISC). mPV (BRA) = 5.9, Dc = 22.82°, Az = 94.83°. PV: 12 s 0.5 μm.
21	eiP	15	57	46	Near East Coast of Honshu, Japan
	Lm	16	39		35.80 ±0.035° N 141.85 ±0.053° E, H = 15 45 23 ±1.3 s, h = 20 ±8.8 km, Mag = 5.1 (ISC). MLH (BRA) = 6.6, Dc = 82.97°, Az = 42.30°. LmH: 18.0 s 25.0 μm.
21	eiP	17	49	22	Near East Coast of Honshu, Japan 35.69 ±0.044° N 141.97 ±0.043° E, H = 17 36 50.0 ±0.35 s, h = 30 ±1.3 km, Mag = 5.0 (ISC). Dc = 83.11°, Az = 42.28°.
22	ePg	09	28	28	Small local shock.
22	ePg	15	27	58	Small local shock.

Date	Phase	h	m	s	Remarks
22	+iP	23	38	57.5	Kodiak Island Region
	iPcP		39	04	57.37 ±0.022° N 152.27 ±0.034° W, H = 23 27 20.3 ±0.12 s, h = 23 ±0.49 km, Mag = 5.8 (ISC). mPV (BRA) = 6.4 , Dc = 74.46°, Az = 354.05°. PV: 1.5 s 0.47 μm.
23	eP	00	23	18	Northern Celebes
	eiPP		27	32	0.78 ±0.057° S 122.22 ±0.063° E, H = 00 09 33.0 ±0.29 s, h = 27 ±1.5 km, Mag = 6.0 (ISC). Dc = 100.64°, Az = 79.17°.
	eiS		34	50	
23	eiP	01	08	50.5	Greenland Sea 73.53 ±0.056° N 8.3 ±0.26° E, H = 01 03 24.0 ±0.35 s, h = 33 km, Mag = 4.7 (ISC). Dc = 25.75°, Az = 354.23°.
23	eiPKP	07	09	24	Cook Strait, New Zealand 41.64 ±0.074° S 174.4 ±0.11° E, H = 06 49 40.0 ±0.56 s, h = 18 km, Mag = 5.6 (ISC). Dc = 162.68°, Az = 76.29°.
23	eiP	09	10	30	Northern Celebes
	eiPP		14	36	0.52 ±0.036° S 122.21 ±0.040° E, H = 08 56 46 ±1.3 s, h = 75 ±12 km, Mag = 5.8 (ISC). Dc = 100.43°, Az = 79.01°.
25	eiPKIKP	11	00	40	West of Tonga 21.08 ±0,026° S 178.70 ±0.031° W, H = 10 41 58.2 ±0.30 s, h = 557 ±4.1 km Mag = 4.9 (ISC). Dc = 150.13°, Az = 30.71°.
26	ePg	07	59	53	Small local shock.
27	eiP	19	53	33	Turkey
	eiPP		53	56	38.14 ±0.031° N 42.52 ±0.026° E, H = 19 48 51 ±1.0 s, h = 28 ±8.0 km, Mag = 5.0 (ISC). Dc = 20.99°, Az = 109.13°.
	eiPPP		54	08	
	eiS		57	15	

Date	Phase	h	m	s	Remarks
28	ePKP2	17	16	14	Tonga 19.17 ±0.069° S 173.45 ±0.068° W, H = 16 56 22.0 ±0.34 s, h = 36 km, Mag = 5.1 (ISC). Dc = 149.83°, Az = 20.15°.
28	eiPKP2	17	33	25	Tonga 19.34 ±0.055° S 173.41 ±0.049° W, H = 17 13 34.7 ±0.23 s, h = 56 km, Mag = 5.2 (ISC). Dc = 150.00°, Az = 20.16°.
29	e	17	34	35.5	

Date	Phase	h	m	s	Remarks
1	–iP	16	36	11	Peru-Brazil Border Region 8.32 ±0.025° S 74.24 ±0.032° W, H = 16 22 54.2 ±0.50 s, h = 137 ±5 km, Mag = 5.7 (ISC). M (MOS) = 6, Dc = 97.03°, Az = 265.44°.
1	eiP	22	32	44	North Atlantic Ridge 23.87 ±0.054° N 45.33 ±0.039° W, H = 22 23 22.2 ±0.28 s, h = 33 km, Mag = 4.6 (ISC). Dc = 54.37°, Az = 266.80°.
2	eiPn	11	31	36	Czechoslovakia (explosion of 19 tons) 50.58° N 14.05° E, H = 11 30 (PRU). Dc = 3.13°, Az = 321.55°.
2	eiP	13	59	46	Turkey 38.1 ±0.11° N 42.61 ±0.071° E, H = 13 55 05 ±1.4 s, h = 55 ±12 km, Mag = 4.6 (ISC). M (MOS) = 4.5, Dc = 21.07°, Az = 109.09°.
2	eiP	23	17	05	Turkey 38.10 ±0.029° N 42.50 ±0.022° E, H = 23 12 24.7 ±0.39 s, h = 50 ±4.1 km, Mag = 4.7 (ISC). M (MOS) = 5, Dc = 21.00°, Az = 109.24°.
4	eiP eiSg Lm	06	39 42 43.5	19 26	Greece 38.94 ±0.034° N 21.47 ±0.033° E, H = 06 36 59 ±1.1 s, h = 27 ±8.6 km, Mag = 4.9 (ISC). M (MOS) = 5.3, MLH (BRA) = 4.5, Dc = 9.75°, Az = 159.49°. LmH: 3 s 0.95 μm.
4	eiPKIKP	11	05	10	Tonga Region 17.3 ±0.13° S 172.6 ±0.22° W, H = 10 45 40.1 ±0.74 s, h = 33 km, Mag = 4.4 (ISC). Dc = 148.21°, Az = 17.79°.

Date	Phase	h	m	s	Remarks
4	eiP	21	52	09	Turkey
	Lm		57		37.74 ±0.032° N 27.71 ±0.032° E,
					H = 21 49 01.8 ±0.51 s, h = 37 ±5.3 km,
					Mag = 4.7 (ISC). M (MOS) = 5, MLH (BRA) = 5.2,
					Dc = 12.99°, Az = 139.50°.
					LmH: 9 s 10 μm.
5	+iP	14	33	34	Taiwan Region
	eipP		33	56	24.33 ±0.032° N 122.50 ±0.037° E,
	eiPP		36	45	Mag = 5.6 (ISC). M (MOS) = 6.2,
					Dc = 81.82°, Az = 62.69°.
5	eiP	15	58	33	Iceland Region
					61.45 ±0.031° N 27.49 ±0.040° W,
					H = 15 52 40.9 ±0.15 s, h = 33 km,
					M (MOS) = 4.8.
					Dc = 28.29°, Az = 314.63°.
6	eiP	02	47	47	Malawi, Africa
					15.72 ±0.034° S 34.59 ±0.043° E,
					H = 02 36 53.8 ±0.22 s, h = 13 km,
					Mag = 5.3 (ISC). M (MOS) = 5.0,
					Dc = 65.49°, Az = 161.46°.
6	eiPKP2	20	13	30	Tonga
					19.36 ±0.053° S 173.64 ±0.070° W,
					H = 19 53 46 ±1.9 s, h = 100 ±17 km,
					Mag = 4.7 (ISC).
					Dc = 149.97°, Az = 20.59°.
7	eiSn	00	02	41	Yugoslavia
					43.95° N 18.32° E,
					H = 07 00 43.3 s, Mag = 3.2 (BEO).
					Dc = 4.30°, Az = 168.22°.
7	eiP	13	11	24	Turkey
	eiPP		11	34	37.75 ±0.028° N 27.79 ±0.029° E,
	Lm		16		H = 13 08 16.9 ±0.20 s, h = 9 km,
					Mag = 5.0 (ISC). M (MOS) = 5.0, MLH (BRA)=4.6,
					Dc = 13.01°, Az = 139.24°.
					LmH: 3 s 0.85 μm.

Date	Phase	h	m	s	Remarks
9	+iP	00	46	29	Crete
	eiPP		46	47	34.43 ±0.027° N 26.44 ±0.024° E,
	Lm		54.5		H = 00 42 53 ±1.4 s, h = 13 ±8.7 km,
					Mag = 5.3 (ISC). M (MOS) = 5.8, MLH (BRA)=5.3,
					Dc = 15.39°, Az = 149.67°.
					LmH: 6 s 6.5 μm.
9	eiP	03	54	43	Turkey
					37.05 ±0.030° N 30.98 ±0.032° E,
					H = 03 51 10.1 ±0.42 s, h = 132 ±4.3 km,
					Mag = 4.9 (ISC).
					Dc = 15.07°, Az = 132.43°.
9	eiPKP2	15	34	53	Tonga
					15.5 ±0.10° S 174.7 ±0.12° W,
					H = 15 15 18 ±2.7 s, h = 93 ±25 km,
					Mag = 4.4 (ISC).
					Dc = 146.00°, Az = 20.65°.
9	eiPKP2	20	25	53	Tonga
					15.67 ±0.094° S 174.77 ±0.083° W,
					H = 20 06 18.3 ±0.35 s, h = 66 km,
					Mag = 4.4 (ISC).
					Dc = 146.15°, Az = 20.84°.
9	eiPKP2	21	50	22	Tonga
					15.11 ±0.064° S 174.61 ±0.053° W,
					H = 21 30 41.2 ±0.18 s, h = 35 km,
					Mag = 4.7 (ISC).
					Dc = 145.64°, Az = 20.34°,
10–11					The apparatus was not operational.
11	–iP	14	29	30.7	Kurile Islands Region
	eiPcP		29	43	48.86 ±0.024° N 156.21 ±0.031° E,
					H = 14 17 38.6 ±0.13 s, h = 41 ±1.2 km,
					Mag = 5.6 (ISC). M (MOS) = 6.3, mPV (BRA)=5.8,
					Dc = 77.08°, Az = 26.33°,
					PV: 1.5 s 0.34 μm.
11	–iP	14	38	32.1	Kurile Islands Region
	eiPcP		39	44	48.89 ±0.027° N 156.31 ±0.039° E,
					H = 14 26 40.3 ±0.88 s, h = 23 ±6.1 km,
					Mag = 5.4 (ISC). M (MOS) = 5.5, mPV (BRA)=5.7,
					Dc = 77.08°, Az = 26.26°.
					PV: 1.5 s 0.25 μm.

Date	Phase	h	m	s	Remarks
11	eiP	21	51	27.3	Kurile Islands Region
	PcP		51	39	48.78 ±0.022° N 156.28 ±0.029° E,
					H = 21 39 32 ±1.2 s, h = 4 ±7.2 km,
					Mag = 5.5 (ISC). M (MOS) = 6.0,
					Dc = 77.17°, Az = 26.33°.
12	eiP	20	33	43	Aegean Sea
					38.56 ±0.049° N 25.82 ±0.056° E,
					H = 20 31 02.5 ±0.76 s, h = 33 ±9.1 km,
					Mag = 4.7 (ISC). M (MOS) = 4.5,
					Dc = 11.50°, Az = 143.43°.
13	eiP	13	15	28	Crete
					34.47 ±0.039° N 26.47 ±0.039° E,
					H = 13 11 50.9 ±0.74 s, h = 37 ±7.2 km,
					Mag = 4.6 (ISC). M (MOS) = 4.5,
					Dc = 15.37°, Az = 149.52°.
13	eiP	13	42	40	Southern Nevada
					37.09 ±0.022° N 116.00 ±0.024° W,
					H = 13 30 02.1 ±0.65 s, h = 21 ±6 km,
					Mag = 5.6 (ISC).
					Dc = 85.39°, Az = 324.15°.
14	eiP	17	12	18	Near South Coast of Honshu, Japan
					34.15 ±0.034° N 138.98 ±0.034° E,
					H = 16 59 50.9 ±0.30 s, h = 23 ±1.5 km,
					Mag = 4.8 (ISC).
					Dc = 83.00°, Az = 45.20°.
14	eiPKP2	19	57	10	Tonga
					15.6 ±0.26° S 174.5 ±0.27° W,
					H = 19 37 31.3 ±0.65 s, h = 33 km,
					Mag = 4.7 (ISC).
					Dc = 146.14°, Az = 20.36°.
14	eiP	20	39	13	Near Coast of Venezuela
					10.37 ±0.029° N 63.04 ±0.024° W,
					H = 20 27 30.7 ±0.49 s, h = 38 ±4.2 km,
					Mag = 5.4 (ISC).
					Dc = 75.78°, Az = 269.68°.

Date	Phase	h	m	s	Remarks
14	eiP	23	03	35	Southern Greece
					37.0 ±0.11° N 22.02 ±0.095° E,
					H = 23 00 44.7 ±0.89 s, h = 40 km,
					Mag = 4.5 (ISC).
					Dc = 11.73°, Az = 160.28°.
15	iP	14	58	14	Andreanof Islands, Aleutian Islands
	eiS	15	08	26	51.51 ±0.022° N 178.36 ±0.024° W,
					H = 14 46 07 ±1.4 s, h = 33 ±99 km,
					Mag = 5.7 (ISC). M (MOS) = 6.0, mPV (BRA)=5.8,
					D = 82.3°, Dc = 79.82°, Az = 9.75°.
					PV: 1.5 s 0.35 μm.
16	eiPKIKP	03	04	48	Banda Sea
					6.95 ±0.024° S 129.37 ±0.032° E,
					H = 02 46 39.2 ±0.76 s, h = 182 ±7.3 km,
					Mag = 5.7 (ISC).
					Dc = 109.94°, Az = 77.78°.
16	eiP	17	34	32	Crete
					34.48 ±0.046° N 26.46 ±0.046° E,
					H = 17 30 56.1 ±0.90 s, h = 41 ±8.9 km,
					Mag = 4.6 (ISC). M (MOS) = 4.5,
					Dc = 15.36°, Az = 149.53°.
17	eiP	01	11	25	Near East Coast of Honshu, Japan
					35.72 ±0.020° N 140.58 ±0.026° E,
					H = 00 59 05 ±0.24 s, h = 59 ±1.8 km,
					Mag = 5.3 (ISC). M (MOS) = 4.5,
					Dc = 82.45°, Az = 43.21°.
17	eiP	07	12	13	Republic of the Congo, Africa
					0.76 ±0.034° N 29.95 ±0.041° E,
					H = 07 03 33.3 ±0.22 s, h = 35 km,
					Mag = 5.5 (ISC). M (MOS) = 5.5,
					Dc = 48.52°, Az = 162.74°.
18	ePKP2	00	18	50	Kermadec Islands Region
					29.75 ±0.099° S 176.7 ±0.12° W,
					H = 23 58 20.6 ±0.67 s, h = 33 km,
					Mag = 4.3 (ISC).
					Dc = 158.76°, Az = 34.95°.
18	iPg	12	10	43	Czechoslovakia (explosion ?).

Date	Phase	h	m	s	Remarks
19	–iP	07	18	26	Unimak Island Region, Alaska 54.04 ±0.031° N 164.08 ±0.033° W, H = 07 06 28.5 ±0.15 s, h = 37 ±2.0 km, Mag = 5.6 (ISC). M (MOS) = 6.3, mPV (BRA)=6.0, Dc = 78.16°, Az = 0.71°. PV: 1 s 0.36 μm.
19	ePn	22	22	56	Northern Italy 44.5 ±0.12° N 11.01 ±0.073° E, H = 22 21 35 ±1.2 s, h = 33 km (ISC). Dc = 5.59°, Az = 231.24°.
20	eSg	00	59	42	France 43.05 ±0.057° N 0.11 ±0.094° E, H = 00 52 58.4 ±0.47 s, h = 35 km, Mag = 4.4 (ISC). Dc = 12.95°, Az = 253.02°.
20	eiP	03	06	14	Ryukyu Islands 25.45 ±0.030° N 128.32 ±0.034° E, H = 02 53 46.8 ±0.16 s, h = 51 ±9 km, Mag = 5.2 (ISC). M (MOS) = 5, Dc = 84.35°, Az = 57.88°.
20	eiPn	07	38	46	Poland 50.3° N 19.0° E, H = 07 38 00 (BCIS), Mag = 3.2 (WAR). Dc = 2.47°, Az = 29.49°.
20	eiP	09	28	40	South of Marianas 13.80 ±0.026° N 146.24 ±0.031° E, H = 09 14 49.3 ±0.13 s, h = 69 ±4.2 km, Mag = 5.6 (ISC). M (MOS) = 6, Dc = 103.55°, Az = 50.82°.
20	eiPg	15	27	32	Small local shock.
21	eiPKP	08	27	21	South of Fiji 24.33 ±0.036° S 179.97 ±0.035° E, H = 08 08 30.0 ±0.36 s, h = 510 ±4.5 km, Mag = 4.8 (ISC). Dc = 152.61°, Az = 35.75°.

Date	Phase	h	m	s	Remarks
21	eiPKP	22	58	17	New Hebrides 18.97 ±0.034° S 169.44 ±0.034° E, H = 22 39 15.3 ±0.31 s, h = 242 ±3.3 km, Mag = 5.0 (ISC). Dc = 143.24°, Az = 47.24°.
22	eP	07	40	24	Turkey 38.70 ±0.052° N 27.92 ±0.058° E, H = 07 37 29 ±1.9 s, h = 23 ±17 km, Mag = 5.1 (ISC). M (MOS) = 4.5, Dc = 12.29°, Az = 136.39°.
23	eiPKP2	06	18	34	Tonga 15.80 ±0.097° S 174.75 ±0.079° W, H = 05 59 00.6 ±0.30 s, h = 82 km, Mag = 4.4 (ISC). Dc = 146.28°, Az = 20.87°.
23	eiP	08	52	28	South of Honshu, Japan 30.05 ±0.022° N 139.81 ±0.027° E, H = 08 39 47.7 ±0.61 s, h = 55 ±5.3 km, Mag = 5.4 (ISC). M (MOS) = 5.4, Dc = 86.76°, Az = 46.95°.
24	eiP	09	42	04	Southern Greece 37.33 ±0.031° N 21.89 ±0.031° E, H = 09 39 26.5 ±0.52 s, h = 34 ±5.1 km. Mag = 4.8 (ISC). M (MOS) = 5.0, MLH(BRA)=4.5, Dc = 11.39°, Az = 160.32°, LmH: 3 s 0.79 μm.
24	eiP	11	12	03	Southern Greece 37.37 ±0.044° N 22.02 ±0.043° E, H = 11 09 25.4 ±0.67 s, h = 43 ±6.7 km, Mag = 4.8 (ISC). M (MOS) = 4.5, Dc = 11.38°, Az = 159.76°.
24	eiPKIKP	15	48	52	South of Fiji 25.42 ±0.068° S 177.35 ±0.080° W, H = 15 29 12 ±1.3 s, h = 102 ±13 km, Mag = 5.0 (ISC). Dc = 154.60°, Az = 31.75°.

Date	Phase	h	m	s	Remarks
24	eiP	17	46	59	Crete 34.87 ±0.060° N 24.62 ±0.056° E, H = 17 43 32.3 ±0.48 s, h = 43 km, Mag = 4.7 (ISC). Dc = 14.42°, Az = 154.41°.
25	ePKP	08	47	57	Tanimbar Islands Region 6.39 ±0.026° S 131.09 ±0.033° E, H = 08 29 00.8 ±0.93 s, h = 57 ±8.6 km, Mag = 5.7 (ISC). M (MOS) = 5.5, Dc = 110.65°, Az = 76.02°.
25	eiPn	09	08	54	Albania 40.32 ±0.043° N 19.82 ±0.053° E, H = 09 06 57 ±1.4 s, h = 21 ±11 km, Mag = 5.0 (ISC). Dc = 8.08°, Az = 165.08°.
25	–iPKIKP	12	26	40.5	Loyalty Islands Region 21.60 ±0.044° S 169.90 ±0.050° E, H = 12 07 05.6 ±0.91 s, h = 43 ±8.8 km, Mag = 5.2 (ISC). Dc = 145.68°, Az = 49°.
25	eiPKIKP eiPP eiPPP	13	40 44 48	45 52 37	Macquarie Island Region 52.77 ±0.027° S 160.17 ±0.057° E, H = 13 20 56.6 ±0.19 s, h = 33 km, Mag = 6.0 (ISC). M (MOS) = 6.2, Dc = 156.23°, Az = 115.08°.
26	eiPn eiSb	08	11 12	58 45	Austria 46.3 ±0.11° N 13.2 ±0.16° E, H = 08 11 03 ±1.2 s, h = 0 km (ISC). Dc = 3.25°, Az = 236.36°.
26	eiPn	12	02	55	Czechoslovakia (explosion of 10.3 tons) 50.58° N 14.02° E, H = 12 01 (PRU). Dc = 3.15°, Az = 321.29°.
26	eiPKIKP	12	45	22	South of Fiji 25.63 ±0.031° S 179.74 ±0.036° W, H = 12 26 24.6 ±0.43 s, h = 464 ±5.4 km, Mag = 4.8 (ISC). Dc = 153.89°, Az = 36.45°.

Date	Phase	h	m	s	Remarks
26	eiPKIKP	18	49	27	West of Tonga 21.33 ±0.048° S 176.69 ±0.070° W, H = 18 30 06.2 ±0.90 s, h = 221 ±8.9 km, Mag = 5.3 (ISC). Dc = 151.02°, Az = 27.31°.
26	eiP	23	11	35	Ryukyu Islands 28.26 ±0.067° N 130.55 ±0.086° E, H = 22 59 01.8 ±0.46 s, h = 39 km (ISC). Dc = 83.40°, Az = 54.56°.
27	eiP	19	09	05	North of Svalbard 82.45 ±0.057° N 7.4 ±0.35° W, H = 19 02 10.9 ±0.29 s, h = 20 km, Mag = 4.5 (ISC). M (MOS) = 4.5, Dc = 35.22°, Az = 354.54°.
28	eiP	00	16	13	Taiwan Region 24.29 ±0.026° N 122.55 ±0.029° E, H = 00 03 59.2 ±0.41 s, h = 55 ±3.7 km, Mag = 5.5 (ISC). M (MOS) = 5.75, Dc = 81.88°, Az = 62.68°.
28	eP	20	45	25	Central Mid-Atlantic Ridge 73 ±0.16° N 34.5 ±0.10° W, H = 20 35 27.8 ±0.77 s, h = 33 km, Mag = 4.4 (ISC). Dc = 59.59°, Az = 244.36°.
29	eiPKIKP eiPKP2 eipPKP	14	03 03 05	24 40 30	West of Tonga 21.55 ±0.029° S 178.61 ±0.031° W, H = 13 44 32.7 ±0.42 s, h = 513 ±5.3 km, Mag = 5.1 (ISC). Dc = 150.59°, Az = 30.90°.
31	eiP	07	55	05	Fox Islands, Aleutian Islands 52.16 ±0.058° N 169.90 ±0.055° W, H = 07 42 58.7 ±0.33 s, h = 32 ±4.2 km, Mag = 4.7 (ISC). M (MOS) = 4.5, Dc = 79.87°, Az = 4.38°.

Date	Phase	h	m	s	Remarks
1	eiP	02	46	02	Rat Islands, Aleutian Islands 51.56 ±0.045° N 176.30 ±0.036° E, H = 02 33 57.6 ±0.23 s, h = 17 km, Mag = 4.9 (ISC). M (MOS) = 4.5, Dc = 79.07°, Az = 13.05°.
2	+iP	03	39	59	Rat Islands, Aleutian Islands
	eiPcP		40	02	51.01 ±0.024° N 175.98 ±0.024° E,
	eipP		40	11	H = 03 27 54.1 ±0.11 s, h = 48 ±0.75 km, Mag = 5.7 (ISC). mPV (BRA) = 5.9, Dc = 79.55°, Az = 13.39°, PV: 1.5 s 0.4 μm.
2	−iP	15	42	40	Southern Nevada (nuclear explosion "Pile Driver") 37.21 ±0.020° N 116.00 ±0.022° W, H = 15 30 01.8 ±0.60 s, h = 18 ±4 km, Mag = 5.6 (ISC). Dc = 85.30°, Az = 324.21°.
2	eiPKP	17	13	45	Tonga 18.78 ±0.065° S, 173.28 ±0.063° W, H = 16 54 01.3 ±0.30 s, h = 68 km, Mag = 4.8 (ISC). Dc = 149.49°, Az = 19.66°.
2	eiP	18	42	37	Straits of Gibraltar
	eiPP		42	51	36.47 ±0.025° N 7.59 ±0.045° W, H = 18 37 48 ±1.2 s, h = 22 ±9.2 km, Mag = 4.4 (ISC). Dc = 21.58°, Az = 246.30°.
2	eP	22	54	34	Turkey 38.50 ±0.072° N 27.23 ±0.081° E, H = 22 51 28 ±3.0 s, h = 30 ±27 km (ISC), M (MOS) = 4.5. Dc = 12.14°, Az = 139.02°.
3	−iP	14	12	41	Southern Nevada 37.03 ±0.02° N 116.01 ±0.02° W, H = 14 00 02.2 ±0.59 s, h = 22 ±4 km, Mag = 5.7 (ISC). Dc = 85.45°, Az = 324.12°.

Date	Phase	h	m	s	Remarks
4	−iP	05	19	13.7	Hindu Kush Region
	eiPP		20	53	36.42 ±0.18° N 70.72 ±0.022° E, H = 05 11 55.4 ±0.21 s, h = 215 ±2.3 km, Mag = 5.2 (ISC). Dc = 40.58°, Az = 86.45°.
4	eiP	06	19	42	Mediterranean Sea 36.63 ±0.031° N 20.97 ±0.029° E, H = 06 16 57.5 ±0.47 s, h = 82 ±4.3 km, Mag = 4.8 (ISC). Dc = 11.88°, Az = 164.72°.
5	−iP	00	00	16	Kurile Islands
	eipP		00	26	46.45 ±0.020° N 152.65 ±0.030° E,
	eiPP		03	13	H = 23 48 19.2 ±0.39 s, h = 37 ±3.6 km, Mag = 5.6 (ISC). M (MOS) = 6.0, mPV (BRA)=5.4, Dc = 78.09°, Az = 29.66°, PV: 1.5 s 0.13 μm.
5	eiP	09	17	17	Turkey 39.07 ±0.048° N 29.34 ±0.048° E, H = 09 14 06.8 ±0.68 s, h = 36 ±7.7 km, Mag = 4.4 (ISC). M (MOS) = 4.5, Dc = 12.69°, Az = 131.30°.
5	eiP	20	54	51	Southern Greece 37.24 ±0.052° N 21.94 ±0.061° E, H = 20 52 02.5 ±0.82 s, h = 35 ±8.4 km, Mag = 4.5 (ISC). Dc = 11.49°, Az = 160.25°.
6	ePKP	02	05	15	New Hebrides 14.97 ±0.026° S 167.86 ±0.024° E, H = 01 45 43 ±1.2 s, h = 22 ±8.3 km, Mag = 5.4. Dc = 139.05°, Az = 46.09°.
6	−iP	07	53	37	Afghanistan-USSR Border Region
	eipP		54	26	36.43 ±0.018° N 71.12 ±0.018° E,
	eiPP		55	20	H = 07 46 15.6 ±0.22 s, h = 214 ±2.2 km, Mag = 6.1 (ISC). mPV (BRA) = 6.8, mPH (BKA) = 7.1, Dc = 40.85°, Az = 86.16°. PV: 2 s 2.6 μm, PH: 2 s 2.3 μm.

Date	Phase	h	m	s	Remarks
6	eiP	21	00	31	Mindanao, Philippine Islands 9.57 ±0.023° N 126.40 ±0.029° E, H = 20 47 11.1 ±0.72 s, h = 44 ±6.3 km, Mag = 5.6 (ISC). M (MOS) = 6.0, Dc = 95.48°, Az = 69.25°.
7	eiP eiLm	01	13 59	42	Near Coast of Peru 14.82 ±0.027° S 75.87 ±0.038° W, H = 00 59 41 ±2.1 s, h = 2 ±12 km, Mag = 5.6 (ISC). MLH (BRA) = 6.8, Dc = 102.85°, Az = 262.17°. LmH: 18 s 25.0 μm.
7	e	09	33	37	Taiwan Region 25.47 ±0.039° N 122.26 ±0.059° E, H = 09 18 59.2 ±0.28 s, h = 24 ±3.2 km, Mag = 4.7 (ISC). Dc = 80.82°, Az = 62.11°.
7	e	11	29	42	
7	eiP eiPP Lm	14 15	13 17 01	27 45	Western Caroline Islands 11.26 ±0.020° N 139.57 ±0.022° E, H = 13 59 34.9 ±0.79 s, h = 37 ±7.0 km, Mag = 6.3 (ISC). MLH (BRA) = 7.3, Dc = 102.03°, Az = 57.81°. LmH: 20 s 95.0 μm.
7	eiPKIKP	19	24	29	West of Tonga 21.40 ±0.039° S 179.22 ±0.050° W, H = 19 05 47.8 ±0.40 s, h = 615 ±5.6 km, Mag = 4.7 (ISC). Dc = 150.25°, Az = 31.86°.
8–9					The apparatus was not operational.
9	eiP	07	05	09	North of Severnaya Zemlya 84.95 ±0.027° N 96.0 ±0.29° E, H = 06 57 50.2 ±0.16 s, h = 33 km, Mag = 4.8 (ISC). M (MOS) = 4.5, Dc = 41.29°, Az = 7.57°.
9	iPg	09	00	55	Slovakia (explosion).

Date	Phase	h	m	s	Remarks
9	eiPg eiSn eiSg	14	19 20 21	30 06 24	Switzerland 46.4 ±0.21° N 7.1 ±0.35° E, H = 14 17 12 ±2.4 s, h = 0 km (ISC). Dc = 7.07°, Az = 259.14°.
9	iP	15	51	17	Kurile Islands 44.20 ±0.022° N 147.69 ±0.030° E, H = 15 39 27 ±0.31 s, h = 99 ±2.7 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 78.21°, Az = 33.86°.
9	eiP	22	29	14	South of Honshu, Japan 30.06 ±0.030° N 142.14 ±0.033° E, H = 22 16 26.5 ±0.15 s, h = 44 ±4.5 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 87.88°, Az = 45.26°.
10	eiP	04	37	14	Rat Islands, Aleutian Islands 52.14 ±0.054° N 175.03 ±0.038° E, H = 04 25 19 ±1.4 s, h = 63 ±12 km, Mag = 4.8 (ISC). M (MOS) = 4.5, Dc = 78.31°, Az = 13.68°.
10	eiP eiSn	09	13 14	25 33	Romania 45.1 ±0.12° N 25.3 ±0.15° E, H = 09 12 00 ±1.1 s, h = 49 ±15 km, Mag = 4.6 (ISC). Dc = 6.41°, Az = 115.51°.
10	eP	10	52	55	North Atlantic Ridge 45.36 ±0.100° N 28.18 ±0.064° W, H = 10 46 51.9 ±0.45 s, h = 33 km, Mag = 4.3 (ISC). Dc = 30.81°, Az = 281.97°.
10	eiP	11	00	19	Explosion?
10	eiPg	11	33	04	Explosion?
10	e	16	01	20	
10	eiP	22	22	55	North Atlantic Ridge 32.96 ±0.037° N 39.91 ±0.024° W, H = 22 14 39.7° ±0.19 s, h = 19 km, Mag = 5.1 (ISC). Dc = 44.88°, Az = 271.82°.

Date	Phase	h	m	s	Remarks
10	eiP	22	51	13	Mongolia 45.19 ±0.036° N 99.69 ±0.043° E, H = 22 41 49 ±0.21 s, h = 33 km, Mag = 5.0 (ISC). M (MOS) = 5.0, Dc = 54.10°, Az = 59.96°.
11	eP	03	13	30	Taiwan Region 23.74 ±0.036° N 119.68 ±0.040° E, H = 03 01 08.1 ±0.21 s, h = 18 ±0.56 km, Mag = 4.9 (ISC). M (MOS) = 5.5, Dc = 80.75°, Az = 64.84°.
11	eiP eiSg	10	24 27	14 24	Greece 38.84 ±0.036° N 21.50 ±0.043° E, H = 10 21 55.4 ±0.57 s, h = 43 ± 6.3 km, Mag = 4.7 (ISC). M (MOS) = 4.5, Dc = 9.85°, Az = 159.53°.
11	eiP	12	07	38	Southern Greece 37.37 ±0.055° N 21.08 ±0.059° E, H = 12 05 02.7 ±0.90 s, h = 47 ±8.8 km, Mag = 4.8 (ISC). M (MOS) = 4.5, Dc = 11.18°, Az = 163.44°.
11	eiP	18	25	43	Andreanof Islands, Aleutian Islands 51.55 ±0.034° N 178.40 ±0.032° W, H = 18 13 39.8 ±0.71 s, h = 51 ±6.3 km, Mag = 5.5 (ISC). M (MOS) = 6.0, Dc = 79.78°, Az = 9.77°.
12	eP	20	31	35	South Atlantic Ocean 2.93 ±0.060° S 28.29 ±0.039° W, H = 20 20 59 ±2.7 s, h = 20 ±19 km, Mag = 4.8 (ISC). Dc = 64.42°, Az = 232.03°.
13	eiPKP	07	52	50	New Hebrides Region 21.14 ±0.041° S 174.21 ±0.047° E, H = 07 33 12.6 ±0.23 s, h = 40 ±4.0 km, Mag = 5.7 (ISC). M (MOS) = 6.0, Dc = 147.36°, Az = 42.32°.

Date	Phase	h	m	s	Remarks
13	e	12	13	36	Kenai Peninsula, Alaska 59.37 ±0.029° N 151.44 ±0.055° W, H = 12 02 53.9 ±0.73 s, h = 40 ±6.8 km, Mag = 4.4 (ISC). Dc = 72.41°, Az = 353.88°.
13	eP	13	11	32	Greenland Sea 73.3 ±0.12° N 7.7 ±0.38° E, H = 13 06 03.9 ±0.83 s, h = 33 km, Mag = 4.3 (ISC). Dc = 25.56°, Az = 353.71°.
13	eiP	13	25	05	Greenland Sea 73.23 ±0.048° N 7.2 ±0.19° E, H = 13 19 35.4 ±0.31 s, h = 33 km, Mag = 4.6 (ISC). Dc = 25.53°, Az = 353.35°.
13	eiP	14	19	28	Greenland Sea 79.63 ±0.092° N 4.1 ±0.65° E, H = 14 12 58.5 ±0.63 s, h = 0 km, Mag = 4.1 (ISC). Dc = 31.92°, Az = 355.58°.
13	e	15	43	38	
13	eiPKHKP iPKIKP eipPKIKP eiPP eipPP	18	27 27 28 30 31	20 33 33 14 06	Santa Cruz Islands 12.23 ±0.021° S 167.02 ±0.021° E, H = 18 08 36.6 ±0.45 s, h = 242 ±4.5 km, Mag = 6.0 (ISC). Dc = 136.28°, Az = 45.15°.
14	eiP	02	50	40	Turkey 38.16 ±0.055° N 42.86 ±0.043° E, H = 02 45 57.2 ±0.73 s, h = 39 ±7.8 km, Mag = 4.6 (ISC). M (MOS) = 4.75, Dc = 21.19°, Az = 108.64°.
14	eP	03	25	53	Central Mid-Atlantic Ridge 0.18 ±0.089° S 19.14 ±0.084° W, H = 03 16 02 ±7.4 s, h = 2 ±44 km, Mag = 4.5 (ISC). Dc = 57.48°, Az = 224.52°.

Date	Phase	h	m	s	Remarks
14	eiP	12	05	06	Central Mid-Atlantic Ridge 7.90 ±0.075° N 37.29 ±0.040° W, H = 11 54 57.0 ±0.36 s, h = 36 ±4.7 km, Mag = 4.7 (ISC). Dc = 60.82°, Az = 247.29°.
14	e	15	45	19	
14	eiP	16	56	52	Banda Sea 5.39 ±0.029° S 124.41 ±0.040° E, H = 16 39 47.9 ±0.56 s, h = 616 ±8.3 km, Mag = 5.4 (ISC). Dc = 105.52°, Az = 80.59°.
14	eiP	21	15	43	South of Honshu, Japan 30.80 ±0.025° N 138.83 ±0.026° E, H = 21 03 49.1 ±0.23 s, h = 405 ±1.9 km, Mag = 4.9 (ISC). Dc = 85.67°, Az = 47.22°.
15	eiPKIKP	01	18	55	Solomon Islands
	eiPP		21	23	10.43 ±0.030° S 160.89 ±0.037° E,
	eiSKP2		22	28	H = 00 59 46.1 ±0.16 s, h = 34 km,
	eiSKKKS		28	16	Mag = 6.0 (ISC). M (MOS) = 7.5, MLH (BRA) = 7.9,
	Lm	02	17.5		Dc = 131.68°, Az = 51.09°.
					LmH: 18 s 240.0 μm.
15	eiPKIKP	01	52	07	Solomon Islands 10.15 ±0.048° S 161.01 ±0.051° E, H = 01 32 54 ±4.6 s, h = 20 ±32 km, Mag = 6.1 (ISC). Dc = 131.50°, Az = 50.76°.
15	eSg	05	20	04	Yugoslavia 44.25° N 20.0° E. H = 05 17 36 (BCIS). Dc = 4.40°, Az = 151.79°.
15	eiPKP	06	33	10	Solomon Islands 10.15 ±0.032° S 161.02 ±0.037° E, H = 06 13 53.0 ±0.81 s, h = 47 ±7.6 km, Mag = 5.7 (ISC). M (MOS) = 5.5, Dc = 131.51°, Az = 50.75°.
15	e	13	08	58	

Date	Phase	h	m	s	Remarks
15	eiPKIKP	16	55	35	Solomon Islands 10.25 ±0.024° S 160.82 ±0.026° E, H = 16 36 26 ±1.2 s, h = 25 ±8.8 km, Mag = 5.4 (ISC). M (MOS) =5.0, Dc = 131.49°, Az = 51.04°.
15	e	18	15	27	Nevada H = 18 02 47 (UPP). Underground explosion.
16	eiPg	04	32	35	Yugoslavia
	eiSg		33	47	43.5 ° N 20.0° E, H = 04 30 59 (BCIS). Dc = 5.09°, Az = 155.52°.
16	ePKP	11	04	45	Tonga 15.2 ±0.15° S 173.0 ±0.15° W, H = 10 45 28.9 ±0.75 s, h = 33 km, Mag = 4.4 (ISC). Dc = 146.03°, Az = 17.67°.
16	eiP	17	10	51	Jan Mayen Island Region 71.59 ±0.063° N 3.1 ±0.21° W, H = 17 05 24.2 ±0.52 s, h = 33 km, Mag = 4.5 (ISC). M (MOS) = 5.0, Dc = 25.32°, Az = 345.13°.
16	eiPKP	19	45	13	West of Tonga 18.94 ±0.062° S 177.57 ±0.080° W, H = 19 27 54.7 ±0.45 s, h = 566 ±6.7 km, Mag = 4.3 (ISC). Dc = 148.50°, Az = 27.31°.
16	eiP	22	42	54	Mid Indian Rise 25.96 ±0.081° S 70.5 ±0.10° E, H = 22 30 05.4 ±0.40 s, h = 33 km, Mag = 4.8 (ISC). Dc = 87.95°, Az = 133.68°.
17	eiP	18	40	32	Republic of the Congo 0.75 ±0.036° N 29.91 ±0.063° E, H = 18 31 54.8 ±0.27 s, h = 33 km, Mag = 5.3 (ISC). Dc = 48.52°, Az = 162.79°.

Date	Phase	h	m	s	Remarks
18	eiPKIKP eiPP	19	34	12	Near North Coast of New Guinea 3.36 ±0.052° S 143.11 ±0.067° E, H = 19 15 28 ±1.6 s, h = 32 ±15 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 115.86°, Az = 63.82°.
19–20					The apparatus was not operational.
20	eiPKIKP	09	11	38	Samoa Region 16.22 ±0.076° S 172.90 ±0.089° W, H = 08 52 04 ±1.8 s, h = 34 ±17 km, Mag = 4.8 (ISC). Dc = 147.09°, Az = 17.89°.
20	eiPKIKP	19	28	41	Tonga 20.90 ±0.080° S 173.86 ±0.092° W, H = 19 08 58.0 ±0.32 s, h = 33 km, Mag = 4.5 (ISC). Dc = 151.40°, Az = 21.81°.
20	e	20	24	44	
21	eiPKIKP eiPP eiPKS	01	02 05 06	34 05 10	Santa Cruz Islands 11.07 ±0.058° S 165.14 ±0.066° E, H = 00 43 15 ±3.1 s, h = 25 ±23 km, Mag = 5.2 (ISC). M (MOS) = 5.5, Dc = 134.36°, Az = 46.63°.
21	iPg	15	19	31	Small local shock.
21	eiP	18	24	45	Oaxaca, Mexico 16.31 ±0.059° N 94.66 ±0.045° W, H = 18 11 43.2 ±0.52 s, h = 56 ±5.0 km, Mag = 4.9 (ISC). Dc = 91.78°, Az = 296.84°.
21	eiP	23	18	15	Kurile Islands 50.12 ±0.022° N 157.74 ±0.029° E, H = 23 06 29.2 ±0.36 s, h = 37 ±3.2 km, Mag = 5.5 (ISC). M (MOS) = 5.0, Dc = 76.39°, Az = 24.84°.

Date	Phase	h	m	s	Remarks
22	eiPKIKP	02	09	25	New Hebrides 17.45 ±0.034° S 167.21 ±0.032° E, H = 01 49 51 ±2.2 s, h = 0 ±13 km, Mag = 5.2 (ISC). Dc = 140.84°, Az = 48.88°.
22	e	08	47	20	
22	eiP	11	50	05	Southern Alaska 61.32 ±0.023° N 147.64 ±0.062° W, H = 11 38 49 ±1.2 s, h = 16 ±8.6 km, Mag = 5.2 (ISC). Dc = 70.18°, Az = 352.25°.
22	eiP eipP eiPKIKP eiPP eipPP eiPKKP2 eiPKPPKP	20	42 44 46 47 48 58 21	25 24 35 03 51 12 06 12	Banda Sea 7.21 ±0.025° S 124.69 ±0.032° E, H = 20 29 05.3 ±0.60 s, h = 523 ±7.6 km, Mag = 6.1 (ISC). Dc = 107.05°, Az = 81.63°.
23	+iP	05	13	03	Hokkaido, Japan Region 43.74 ±0.017° N 140.02 ±0.025° E, H = 05 01 43.0 ±0.15 s, h = 224 ±1.9 km, Mag = 5.5 (ISC). Dc = 75.63°, Az = 38.91°.
23	e	13	00	18	
24	e	08	00	23	
24	–iPKIKP	08	37	25	South of Fiji 26.72 ±0.045° S 177.31 ±0.048° W, H = 08 17 51.0 ±0.84 s, h = 162 ±8.2 km, Mag = 5.2 (ISC). Dc = 155.80°, Az = 32.90°.
24	e	13	08	04	
24	eiPg	15	08	34	Central Italy 43.2 ±0.14° N 13.4 ±0.18° E, H = 15 06 51 ±1.5 s, h = 45 ±45 km (ISC). Dc = 5.60°, Az = 208.93°.

Date	Phase	h	m	s	Remarks
24	eiP	22	36	49	Greece 38.73 ±0.032° N 21.53 ±0.035° E, H = 22 34 26 ±0.53 s, h = 34 ±5.8 km, Mag = 4.7 (ISC). Dc = 9.96°, Az = 159.59°.
25	eiP	01	58	58	South of Honshu, Japan 29.44 ±0.024° N 142.04 ±0.029° E, H = 01 46 08.8 ±0.69 s, h = 38 ±5.9 km, Mag = 5.3 (ISC). M (MOS) = 5.0, Dc = 88.34°, Az = 45.68°.
27	eiPn	05	17	24	Central Italy
	eiPg		17	54	43.1 ±0.13° N 13.5 ±0.19° E,
	eiSn		18	36	H = 05 16 03 ±1.6 s, h = 33 km (ISC).
	eiSg		19	11	Dc = 5.67°, Az = 207.82°.
27	e	07	58	05	
27	eiPKP	08	58	42	Tonga Region 22.82 ±0.049° S 175.49 ±0.056° W, H = 08 38 45 ±1.3 s, h = 49 ±12 km, Mag = 5.0 (ISC). M (MOS) = 4.5, Dc = 152.78°, Az = 26.08°.
27	–iP	10	50	14	Nepal-India Border Region 29.62 ±0.027° N 80.83 ±0.023° E, H = 10 41 08.1 ±0.13 s, h = 33 km, Mag = 6.0 (ISC). M (MOS) = 6.5, Dc = 51.44°, Az = 86.86°.
27	–iP	11	08	21	Nepal-India Border Region
	iPn		10	22	29.71 ±0.033° N 80.89 ±0.027° E,
	eiS		15	40	H = 10 59 18.1 ±0.16 s, h = 36 ±3.0 km,
	Lm		34.5		Mag = 6.0 (ISC). M (MOS) = 6.0–6.5, MLH (BRA) = 6.3, mPV= 6.8, D = 51.8°, Dc = 51.43°, Az = 86.73°. LmH: 12 s 18 μm, PV: 2 s 1.7 μm,
27	eiP	14	04	55	Nepal-India Border Region 29.62 ±0.027° N 80.93 ±0.029° E, H = 13 55 49.3 ±0.16 s, h = 18 ±3.0 km, Mag = 5.3 (ISC). M (MOS) = 5.0, Dc = 51.50°, Az = 86.79°.

Date	Phase	h	m	s	Remarks
27	eiPKIKP	22	06	55	North Island, New Zealand
	eiPKP2		07	46	38.28 ±0.045° S 177.10 ±0.060° E, H = 21 47 09.6 ±0.49 s, h = 100 ±4.9 km, Mag = 5.4 (ISC). Dc = 162.44°, Az = 63.14°.
28	e	17	20	15	
29	eiSg	00	53	29	Albania 41.29 ±0.039° N 20.47 ±0.062° E, H = 00 49 35 ±1.4 s, h = 16 ±12 km, Mag = 4.6 (ISC). Dc = 7.28°, Az = 159.58°.
30	eiP	09	10	28	Near E. Coast of Eastern Russia 43.40 ±0.023° N 132.41 ±0.030° E, H = 08 59 49.5 ±0.22 s, h = 476 ±3.3 km, Mag = 5.0 (ISC). Dc = 72.54°, Az = 43.69°.
30	eiP	15	57	38	Taiwan Region 24.34 ±0.022° N 122.18 ±0.032° E, H = 15 45 27.5 ±0.33 s, h = 59 ±3.1 km, Mag = 5.3 (ISC). M (MOS) = 5.75, Dc = 81.63°, Az = 62.91°.
30	eiPKIKP	17	16	59	Fiji Region 15.48 ±0.060° S 177.15 ±0.066° W, H = 16 57 23.3 ±0.25 s, h = 33 km, Mag = 4.7 (ISC). Dc = 145.35°, Az = 24.68°.
30	eiPn	19	23	17	Albania
	eiSg		25	38	41.18 ±0.064° N 20.85 ±0.092° E, H = 19 21 29 ±2.5 s, h = 19 ±24 km, Mag = 4.8 (ISC). Dc = 7.48°, Az = 157.74°.
30	–iP	22	27	30	Southern Nevada (nuclear explosion "Halfbeak") 37.32 ±0.017° N 116.28 ±0.020° W, H = 22 15 02.7 ±0.55 s, h = 25 ±4 km, Mag = 6.1 (ISC). mPV (BRA) = 6.4, Dc = 85.31°, Az = 324.46°. PV: 1.4 s 0.5 μm.

Date	Phase	h	m	s	Remarks
1	−iP	06	02	47	Taiwan Region
	eisP		03	27	24.86 ±0.020° N 122.56 ±0.022° E,
	eiPP		05	52	H = 05 50 38.0 ±0.28 s, h = 102 ±2.7 km,
					Mag = 6.1 (ISC). mPV (BRA) = 6.6,
					Dc = 81.45°, Az = 62.30°.
					PV: 2.5 s 1.23 μm.
1	eiP	19	17	22	Near Islands, Aleutian Islands
	eisP		17	34	52.33 ±0.068° N 174.07 ±0.047° E,
					H = 19 05 24.4 ±0.91 s, h = 33 ±8.9 km,
					Mag = 4.8 (ISC).
					Dc = 77.97°, Az = 14.21°.
3	−iP	04	07	17	Fox Islands, Aleutian Islands
					52.42 ±0.042° N 170.31 ±0.038° W,
					H = 03 55 12.2 ±0.87 s, h = 42 ±7.9 km,
					Mag = 5.2 (ISC).
					Dc = 79.59°, Az = 4.61°.
3	eiPKIKP	04	29	15	Tonga
	eiPKP2		29	30	21.29 ±0.043° S 174.20 ±0.039° W,
					H = 04 09 34.2 ±0.19 s, h = 69 km,
					Mag = 4.9 (ISC). M (MOS) = 5.5,
					Dc = 151.68°, Az = 22.67°.
3	eiP	05	35	24	Near Coast of Chiapas, Mexico
					14.7 ±0.40° N 93.2 ±0.21° W,
					H = 05 22 14 ±3.0 s, h = 33 km,
					Mag = 3.7 (ISC).
					Dc = 92.17°, Az = 294.74°.
4	−iP	03	07	39	Rat Islands, Aleutian Islands
					51.78 ±0.030° N 176.44 ±0.028° E,
					H = 02 55 37.7 ±0.67 s, h = 41 ±6.0 km,
					Mag = 5.5 (ISC). M (MOS) = 5.0,
					Dc = 78.87°, Az = 12.91°.
4	eiPKIKP	07	41	06	South of Fiji
					22.20 ±0.052° S 179.42 ±0.049° W,
					H = 07 22 25.1 ±0.45 s, h = 594 ±6.7 km,
					Mag = 4.5 (ISC).
					Dc = 150.91°, Az = 32.83°.

Date	Phase	h	m	s	Remarks
4	+iP	12	21	51	Azores Region
					37.51 ±0.026° N 24.75 ±0.018° W,
					H = 12 15 27.4 ±0.13 s, h = 27 ±4.6 km,
					Mag = 5.3 (ISC). M (MOS) = 5.5,
					Dc = 32.12°, Az = 266.32°.
4	+iP	18	45	42	Rat Islands, Aleutian Islands
	isP		45	51	51.99 ±0.045° N 179.95 ±0.051° E,
	iPP		48	50	H = 18 33 38.7 ±0.19 s, h = 16 ±1.0 km,
	eiPPP		50	39	Mag = 5.9 (ISC). M (MOS) = 7.25,
	eiPPS		56	36	MLH (BRA) = 7.1,
	Lm	19	29		Dc = 79.15°, Az = 10.70°.
					LmH: 18 s 79 μm.
5	eiP	02	28	50	Azores Islands
					37.49° N 24.62° W,
					H = 02 22 23.9 s, h = 27 km, Mag = 4.8 (USCGS).
					Dc = 32.04°, Az = 266.18°.
5	eiP	02	33	49	Andreanof Islands, Aleutian Islands
					52.1 ±0.18° N 178.9 ±0.17° W,
					H = 02 21 46.6 ±0.88 s, h = 53 ±2.5 km,
					Mag = 5.3 (ISC). M (MOS) = 5.75,
					Dc = 79.17°, Az = 9.97°.
5	+iPKIKP	03	41	57	Tonga
	iPKP2		43	03	15.24 ±0.038° S 174.89 ±0.033° W,
					H = 03 22 46.5 ±0.5 s, h = 262 ±5.1 km,
					Mag = 4.9 (ISC).
					Dc = 145.70°, Az = 20.86°.
5	−eiP	05	15	30	Azores Region
					37.54 ±0.038° N 24.68 ±0.022° W,
					H = 05 09 4.7 ±0.19 s, h = 18 ±0.76 km,
					Mag = 5.0 (ISC). M (MOS) = 5.0,
					Dc = 32.06°, Az = 266.31°.
5	e	09	35	42	
5	ePP	10	13	55	India-China Border Region
					27.84 ±0.053° N 92.60 ±0.076° E,
					H = 10 01 18 ±0.37 s, h = 33 km,
					Mag = 4.8 (ISC).
					Dc = 60.42°, Az = 80.32°.

Date	Phase	h	m	s	Remarks
5	e	14	20	45	
5	e	14	24	19	
6	eiPn	04	26	25	Southern Italy
	eiSg		28	55	40.91 ±0.029° N 15.79 ±0.041° E,
					H = 04 24 42.2 ±0.42 s, h = 35 ±5.4 km,
					Mag = 4.3 (ISC). M (MOS) = 4.0,
					Dc = 7.31°, Az = 187.85°.
6	eiP	14	07	27	Northern Sinkiang Province, China
					44.08 ±0.034° N 83.41 ±0.041° E,
					H = 13 59 11 ±1.8 s, h = 10 ±11 km,
					Mag = 4.6 (ISC).
					Dc = 44.86°, Az = 69.33°.
6	eiP	20	34	16	Ryukyu Islands
					25.92 ±0.093° N 127.85 ±0.093° E,
					H = 20 21 45.0 ±0.55 s, h = 17 ±0.53 km,
					Mag = 5.2 (ISC). M (MOS) = 5.0,
					Dc = 83.72°, Az = 57.91°.
7	e	13	02	08	
7	e	13	52	36	
7	e	14	58	44	
7	e	15	19	14	
7	eiPKP	23	41	44	Tonga
					18.17 ±0.063° S 173.50 ±0.057° W,
					H = 23 22 04.2 ±0.25 s, h = 15 km,
					Mag = 5.0 (ISC).
					Dc = 148.86°, Az = 19.77°.
8	e	10	44	02	
8	e	11	07	20	
8	e	12	35	56	
8	e	13	14	31	

Date	Phase	h	m	s	Remarks
9	eiPn	10	05	51	Yugoslavia
	eiSg		07	36	43.0 ±0.16° N 18.7 ±0.27° E,
					H = 10 04 32 ±1.7 s, h = 0 km (ISC).
					Dc = 5.3°, Az = 167.20°.
9	eiPKIKP	14	33	27	West of Tonga.
					20.18 ±0.041° S 178.38 ±0.047° W,
					H = 14 14 41.2 ±0.56 s, h = 558 ±7.5 km,
					Mag = 4.5 (ISC).
					Dc = 149.40°, Az = 29.52°.
10	–iPKIKP	10	20	32	Kermadec Islands
	eiPKP2		21	10	30.57 ±0.041° S 177.74 ±0.066° W,
	eiPKS		24	16	H = 10 00 36 ±2.2 s, h = 19 ±16 km,
					Mag = 5.3 (ISC). M (MOS) = 5.25,
					Dc = 159.08°, Az = 38.22°.
10	eiPn	13	31	10	Austria
	eiSn		31	54	46.5 ±0.14° N 13.6 ±0.19° E,
	eiSg		32	08	H = 13 30 17 ±1.5 s, h = 29 km,
					Dc = 2.93°, Az = 236.29°.
10	–iP	16	25	08	Southwestern Ryukyu Islands
	ipP		25	18	24.30 ±0.020° N 125.21 ±0.021° E,
	eiPP		28	17	H = 16 12 42.3 ±0.11 s, h = 32 ±0.69 km,
	Lm	17	06		Mag = 5.7 (ISC). M (MOS) = 6.25, MLH(BRA)=6.5,
					mPV (BRA) = 6.1,
					Dc = 83.44°, Az = 60.81°.
					LmH: 16 s 18 μm, PV: 1.8 s 0.28 μm.
11	eiPg	12	34	44	Small local shock.
11	eiPKIKP	23	05	39	Tonga
	eiPKP2		05	48	19.35 ±0.035° S 173.32 ±0.036° W,
	eiPKS		09	41	H = 22 45 52.0 ±0.15 s, h = 8 km,
					Mag = 5.4 (ISC). M (MOS) = 5.25,
					Dc = 150.04°, Az = 20.00°.
12	eiP	00	08	24	Turkey
					39.25 ±0.074° N 41.62 ±0.052° E,
					H = 00 04 10.3 ±0.86 s, h = 40 ±9.7 km,
					Mag = 4.6 (ISC). M (MOS) = 4.5,
					Dc = 19.77°, Az = 107.73°.

Date	Phase	h	m	s	Remarks
12	eiP	02	59	30	Mediterranean Sea 35.50 ±0.035° N 22.49 ±0.028° E, H = 02 56 22 ±1.7 s, h = 7 ±10 km, Mag = 5.0 (ISC). M (MOS) = 4.75, Dc = 13.27°, Az = 160.52°.
12	eiPg	11	02	48	Small local shock.
12	e	16	02	14	
12	+eiPKIKP	17	56	53	Loyalty Islands Region
	eisPKP2		57	48	21.53° ±0.029° S 170.52 ±0.040° E, H = 17 37 26.9 ±0.54 s, h = 129 ±5.6 km, Mag = 5.2 (ISC). Dc = 145.94°, Az = 48.07°.
12	+iP	18	56	29	Western Caucasus
	eiPP		56	39	44.72 ±0.022° N 37.31 ±0.021° E,
	eiPPP		56	51	H = 18 53 05 ±1.1 s, h = 2 ±7.0 km,
	iSS		59	30	Mag = 5.5 (ISC). M (MOS) = 5.0–5.5, Dc = 14.34°, Az = 96.39°.
12	eiPKIKP	21	59	48	Tonga 20.64 ±0.053° S 174.39 ±0.077° W, H = 21 39 57.9 ±0.20 s, h = 33 km, Mag = 4.7 (ISC). Dc = 151.01°, Az = 22.65°.
13	eiP	14	58	31	Northern Celebes 0.13 ±0.027° S 122.90 ±0.040° E, H = 14 40 27.6 ±0.92 s, h = 141 ±8.8 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 100.60°, Az = 78.22°.
14	eiP	06	31	04	Near East Coast of Honshu, Japan 35.32 ±0.022° N 140.31 ±0.027° E, H = 06 18 43.2 ±0.30 s, h = 38 ±2.5 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 82.66°, Az = 43.62°.
14	eiPKIKP	07	43	26	Tonga 15.28 ±0.082° S 174.02 ±0.075° W, H = 07 24 03 ±1.5 s, h = 162 ±15 km, Mag = 4.4 (ISC). Dc = 145.94°, Az = 19.42°.

Date	Phase	h	m	s	Remarks
14	eiP	12	29	57	Gulf of Alaska
	pP		30	07	56.20 ±0.030° N 149.87 ±0.045° W, H = 12 18 16.8 ±0.20 s, h = 32 ±1.9 km, Mag = 5.0 (ISC). M (MOS) = 5.0, Dc = 75.43°, Az = 352.52°.
14	eiPn	15	55	25	Poland
	eiSg		56	02	50.12 ±0.089° N 18.35 ±0.081° E, H = 15 54 47.6 ±0.69 s, h = 13 km, Dc = 2.11°, Az = 22.24°.
14	−eiP	18	18	54	Near Islands, Aleutian Islands 53.16 ±0.038° N 171.04 ±0.034° E, H = 18 07 02 ±2.8 s, h = 15 ±17 km, Mag = 5.2 (ISC). M (MOS) ± 5.0, Dc = 76.65°, Az = 15.78°.
15	eiP	23	52	33	Greece 38.90 ±0.043° N 21.65 ±0.058° E, H = 23 50 12.1 ±0.63 s, h = 34 ±8.5 km, Mag = 4.4 (ISC). Dc = 9.83°, Az = 158.77°.
16	eiPKIKP	07	39	13	Santa Cruz Islands 10.96 ±0.030° S 165.97 ±0.034° E, H = 07 19 56.6 ±0.76 s, h = 76 ±7.2 km, Mag = 4.9 (ISC). Dc = 134.67°, Az = 45.56°.
17	eiP	01	14	43	Pribilof Islands 56.49 ±0.045° N 167.04 ±0.065° W, H = 01 03 04 ±1.0 s, h = 40 ±10 km, Mag = 4.8 (ISC). Dc = 75.67°, Az = 2.37°.
17	+iPKIKP	02	43	39	Loyalty Islands Region 21.52 ±0.060° S 169.75 ±0.056° E, H = 02 24 07 ±1.0 s, h = 61 ±10 km, Mag = 5.1 (ISC). Dc = 145.55°, Az = 49.13°.
17	eiPKP	16	24	01	Tonga 19.57 ±0.077° S 175.53 ±0.058° W, H = 16 04 35.4 ±0.90 s, h = 202 ± 9.2 km, Mag = 4.2 (ISC). Dc = 149.69°, Az = 24.12°.

Date	Phase	h	m	s	Remarks
18	eiP	02	04	19	Carlsberg Ridge
	eiPP		06	25	8.22 ±0.073° N 58.57 ±0.087° E,
					H = 01 55 01.8 ±0.58 s, h = 33 km,
					Mag = 4.7 (ISC). M (MOS) = 5.0,
					Dc = 52.99°, Az = 124.82°.
18	eiP	10	07	49	Arabian Sea
					13.02 ±0.048° N 57.48 ±0.048° E,
					H = 09 59 10.0 ±0.46 s, h = 33 km,
					Mag = 4.9 (ISC). M (MOS) = 4.75,
					Dc = 48.45°, Az = 122.47°.
18	eiP	19	46	59	Carlsberg Ridge
					8.19 ±0.065° N 58.69 ±0.075° E,
					H = 19 37 41.3 ±0.50 s, h = 33 km,
					Mag = 4.6 (ISC).
					Dc = 53.07°, Az = 124.72°.
19	eP	00	26	41	North Atlantic Ocean
					55.45 ±0.091° N 35.35 ±0.074° W,
					H = 00 20 12 ±3.1 s, h = 43 ±30 km,
					Mag = 4.5 (ISC).
					Dc = 32.55°, Az = 302.90°.
19	+iP	01	52	23	Komandorsky Islands Region
	eiS	02	01	50	56.24 ±0.034° N 164.83 ±0.043° E,
	Lm	02	27		H = 01 40 55.0 ±0.17 s, h = 20 ±1.5 km,
					Mag = 5.3 (ISC). M (MOS) = 6.75, MLH(BRA)=6.8,
					D = 73°, Dc = 72.53°, Az = 18.21°.
					LmH: 16 s 38 μm.
19	eiP	19	32	40	Andreanof Islands, Aleutian Islands
					51.77 ±0.035° N 173.34 ±0.027° W,
					H = 19 20 28 ±2.2 s, h = 3 ±13 km,
					Mag = 5.4 (ISC). M (MOS) = 5.5,
					Dc = 80.04°, Az = 6.57°.
21	eiP	09	14	36	Fox Islands
					52.04 ±0.057° N 170.10 ±0.049° W,
					H = 09 02 28.0 ±0.31 s, h = 36 ±2.3 km,
					Mag = 4.8 (ISC). M (MOS) = 5.0,
					Dc = 79.98°, Az = 4.51°.
21	e	14	27	41	

Date	Phase	h	m	s	Remarks
21	–iPKP	18	48	52	West of Tonga
	SKP2		51	33	17.85 ±0.026° S 178.56 ±0.027° W,
					H = 18 30 15.0 ±0.33 s, h = 589 ±4.6 km,
					Mag = 5.6 (ISC).
					Dc = 147.17°, Az = 28.32°.
22	eiP	03	48	23	Northern Sinkiang Province
	eiPP		50	20	42.92 ±0.029° N 84.54 ±0.036° E,
					H = 03 39 58 ±1.4 s, h = 19 ±10 km,
					Mag = 4.9 (ISC). M (MOS) = 5.5,
					Dc = 46.15°, Az = 70.16°.
22	eiPKIKP	08	44	58	New Hebrides
	eiPP		48	01	15.99 ±0.021° S 167.95 ±0.024° E,
					H = 08 25 55.1 ±0.31 s, h = 190 ±3.0 km,
					Mag = 5.3 (ISC).
					Dc = 139.97°, Az = 46.76°.
22	eiP	10	29	29	Andreanof Islands, Aleutian Islands
	eiPcP		29	45	51.65 ±0.032° N 173.50 ±0.027° W,
					H = 10 17 17 ±2.3 s, h = 8 ±14 km,
					Mag = 5.5 (ISC). M (MOS) = 5.75–6.0,
					Dc = 80.15°, Az = 6.68°.
23	e	01	57	50	Northwest of Cornwall
					50.5° N 5.5° W,
					H = 01 50 00 (BCIS).
					Dc = 14.91°, Az = 287.45°.
23	eiP	03	50	03	Andreanof Islands, Aleutian Islands
					51.69 ±0.041° N 173.57 ±0.035° W,
					H = 03 37 51 ±3.7 s, h = 7 ±22 km,
					Mag = 4.9 (ISC). M (MOS) = 5,
					Dc = 80.11°, Az = 6.72°.
23	eiPn	15	32	51	Yugoslavia
	eiSg		33	45	45.0 ±0.34° N 21.0 ±1.5° E,
					H = 15 31 40 ±12 s, h = 0 km (ISC).
					Dc = 4.06°, Az = 138.29°.
24	eiPKP2	09	11	55	Samoa Region
					16.29 ±0.052° S 172.65 ±0.050° W,
					H = 08 52 11.9 ±0.23 s, h = 33 km,
					Mag = 4.6 (ISC).
					Dc = 147.21°, Az = 17.49°.

Date	Phase	h	m	s	Remarks
24	eiPKP	17	37	51	Tonga
	eiPKP2		38	11	20.56 ±0.042° S 175.59 ±0.046° W,
	eisPKP2		38	53	H = 17 18 20.0 ±0.94 s, h = 138 ±9.0 km,
					Mag = 5.0 (ISC).
					Dc = 150.61°, Az = 24.81°.
25	+eiP	09	30	38	Fox Islands, Aleutian Islands
	eisP		30	59	52.13 ±0.065° N 170.03 ±0.055° W,
					H = 09 18 37.9 ±0.35 s, h = 35 ±4.1 km,
					Mag = 4.7 (ISC).
					Dc = 79.89°, Az = 4.46°.
26	eiPKIKP	22	59	25	Kermadec Islands Region
	eiPKP2		59	56	27.64 ±0.043° S 177.78 ±0.043° W,
					H = 22 39 49.8 ±0.71 s, h = 162 ±6.7 km,
					Mag = 5.1 (ISC).
					Dc = 156.46°, Az = 34.79°.
27	eiP	14	54	54.6	Western Persia
					32.68 ±0.029° N 48.78 ±0.023° E,
					H = 14 49 03.8 ±0.54 s, h = 45 ±5.0 km,
					Mag = 5.1 (ISC).
					Dc = 28.40°, Az = 111.48°.
28	ePKIKP	01	37	57	New Hebrides
					17.20 ±0.045° S 167.75 ±0.054° E,
					H = 01 18 27.2 ±0.32 s, h = 13 km,
					Mag = 5.0 (ISC). M (MOS) = 5.25,
					Dc = 140.90°, Az = 47.98°.
28	iPn	02	00	33	Yugoslavia
					43.2 ±0.11° N 17.9 ±0.17° E,
					H = 01 59 20 ±1.2 s, h = 69 ±22 km,
					Mag = 4.7 (ISC).
					Dc = 5.04°, Az = 173.31°.
28	iPKIKP	12	27	42	Kermadec Islands
					29.33 ±0.050° S 177.28 ±0.067° W,
					H = 12 07 52 ±1.1 s, h = 57 ±9.8 km,
					Mag = 5.4 (ISC).
					Dc = 158.17°, Az = 35.68°.

Date	Phase	h	m	s	Remarks
29	eP	08	27	14	Southern Persia
					28.34 ±0.055° N 51.62 ±0.038° E,
					H = 08 20 46.8 ±0.89 s, h = 38 ±8.0 km,
					Mag = 4.7 (ISC).
					Dc = 33.17°, Az = 114.10°.
29	eiPKIKP	12	05	25	Solomon Islands
					10.57 ±0.035° S 163.11 ±0.024° E,
					H = 11 46 06 ±2.2 s, h = 1 ±14 km,
					Mag = 5.4 (ISC).
					Dc = 132.93°, Az = 48.66°.
30	eiP	05	20	43	Yugoslavia
	eiPb		20	49	43.10 ±0.066° N 17.8 ±0.11° E,
	eiSn		21	31	H = 05 19 28.2 ±0.94 s, h = 62 ±12 km,
					Mag = 4.4 (ISC).
					Dc = 5.09°, Az = 174.26°.
30	e	08	38	18	Greece
					39.75° N 21.75° E,
					H = 08 35 37 s, Mag = 3.8 (ATH).
					Dc = 9.02°, Az = 156.61°.
30	e	23	53	33	Poland
					50.28° N 18.98° E,
					H = 23 52 00.2 s, Mag = 2.6 (WAR).
					Dc = 2.45°, Az = 29.48°.
31	eiPKP	12	09	06	New Hebrides Region
					19.78 ±0.071° S 173.59 ±0.072° E,
					H = 11 49 27 ±1.5 s, h = 32 ±14 km,
					Mag = 4.9 (ISC).
					Dc = 145.89°, Az = 42.07°.

Date	Phase	h	m	s	Remarks
1	eiP	03	42	08	
1	eP	06	38	00	Rat-Islands, Aleutian Islands 51.61 ±0.058° N 177.70 ±0.060° E, H = 06 25 59 ±1.3 s, h = 46 ±10 km, Mag = 5.1 (ISC). Dc = 79.18°, Az = 12.18°.
1	eiP	19	17	54	West Pakistan
	eiPP		19	42	29.97 ±0.025° N 68.72 ±0.023° E, H = 19 09 55.0 ±0.15 s, h = 24 ±1.4 km, Mag = 5.5 (ISC). M (MOS) = 6.0, Dc = 43.12°, Az = 95.67°.
1	–iP	20	38	54	West Pakistan
	eiPP		40	38	29.95 ±0.023° N 68.62 ±0.024° E, H = 20 30 56.5 ±0.15 s, h = 29 ±2.1 km, Mag = 5.4 (ISC). M (MOS) = 5.75, Dc = 43.06°, Az = 95.77°.
1	eiP	20	44	04	Kurile Islands Region 44.74 ±0.037° N 150.38 ±0.043° E, H = 20 32 01.7 ±0.98 s, h = 21 ±7.0 km, Mag = 5.2 (ISC). M (MOS) = 5.5, Dc = 78.81°, Az = 31.93°.
1	eiP	21	10	56	West Pakistan
	eiPP		12	44	39.08 ±0.040° N 68.62 ±0.035° E, H = 21 03 00.9 ±0.21 s, h = 40 ±2.4 km, Mag = 5.7 (ISC). M (MOS) = 7.0, mPV (BRA) = 6.2, MLH (BRA) = 6.5, Dc = 42.98°, Az = 95.63°. PV: 1 s 0.31 μm, LmH: 12 s 39 μm. The body wave onsets on the vertical component are multiple with successively increasing amplitude.
	eiPPP		13	10	
	eiS		17	26	
	Lm		36		
1	eiP	22	38	52	West Pakistan
	eiPcP		40	49	29.93 ±0.038° N 68.82 ±0.037° E, H = 22 30 55 ±1.4 s, h = 31 ±11 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 43.21°, Az = 95.63°.

Date	Phase	h	m	s	Remarks
2	eP	09	27	02	West Pakistan 29.91 ±0.039° N 69.18 ±0.040° E, H = 09 18 59 ±0.67 s, h = 37 ±6.2 km, Mag = 5.0 (ISC). M (MOS) = 5.0, Dc = 43.46°, Az = 95.36°.
3	eiPg	11	03	34	Explosion
	eiSg		03	38	D = 30 km.
3	eiPg	11	40	34	Austria 47.75° N 16.025° E, H = 11 40 11 (BCIS). Dc = 0.84°, Az = 240.43°.
5	eiPn	17	49	15	Yugoslavia 42.16 ±0.033° N 18.76 ±0.038° E, H = 17 47 43.4 ±0.45 s, h = 35 ±5.7 km, Mag = 5.0 (ISC). Dc = 6.12°, Az = 168.38°.
6	eiPn	02	32	37	Yugoslavia
	eiPb		32	50	42.18 ±0.020° N 18.79 ±0.023° E, H = 02 31 03 ±1.0 s, h = 3 ±6.9 km, Mag = 5.2 (ISC). M (MOS) = 4.75, MLH(BRA)=4.5, Dc = 6.11°, Az = 168.14°. LmH: 3 s 1.8 μm.
	eiSn		33	46	
	eiSb		34	07	
	eiSg		34	28	
	LmH		35		
6	e	04	03	52	Greece-Albania Border Region 39.86 ±0.077° N 20.0 ±0.14° E, H = 04 00 42.9 ±0.75 s, h = 0 km (ISC). Dc = 8.56°, Az = 164.87°.
9	eiPn	05	53	28	Yugoslavia
	eiSn		54	37	42.30 ±0.057° N 18.95 ±0.083° E, H = 05 52 01.8 ±0.85 s, h = 48 ±11 km, Mag = 4.8 (ISC). M (MOS) = 4.5, Dc = 6.01°, Az = 166.82°.
	eiSg		55	21	
9	eS	18	36	38	Southern Greece 37.90 ±0.098° N 22.2 ±0.10° E, H = 18 32 32 ±3.0 s, h = 25 ±24 km, Mag = 4.4 (ISC). Dc = 10.91°, Az = 158.22°.

Date	Phase	h	m	s	Remarks
6	eiP	19	45	22	Kurile Islands Region 44.77 ±0.049° N 150.30 ±0.050° E, H = 19 33 18 ±1.8 s, h = 10 ±10 km, Mag = 4.9 (ISC). M (MOS) = 5.0, Dc = 78.76°, Az = 31.97°.
6	eiP	20	18	01	Greenland Sea 73.23 ±0.085° N 6.4 ±0.31° E, H = 20 12 33.0 ±0.59 s, h = 33 km, Mag = 4.9 (ISC). Dc = 25.60°, Az = 352.83°.
6	eiP	20	31	29	Kurile Islands Region 44.72 ±0.051° N 150.25 ±0.048° E, H = 20 19 29.6 ±0.59 s, h = 40 ±4.5 km, Mag = 4.7 (ISC). M (MOS) ± 5.0, Dc = 78.78°, Az = 32.03°.
7	+iP	02	25	19	Aleutian Islands Region
	eiPPP		30	25	50.57 ±0.023° N 171.22 ±0.023° W,
	eiSKS		35	31	H = 02 13 04.3 ±0.10 s, h = 29 ±1.3 km,
	eiPS		36	12	Mag = 6.3 (ISC). MLH (BRA) = 6.9,
					Dc = 81.38°, Az = 5.36°.
	Lm	03	12		LmH: 18 s 48 μm.
7	ePKP2	14	01	17	South of Fiji 23.92 ±0.044° S 179.79 ±0.045° W, H = 13 42 06.7 ±0.56 s, h = 524 ±7.3 km, Mag = 4.6 (ISC). Dc = 152.34°, Az = 34.95°.
7	eiP	14	23	15	Gulf of Alaska 59.61 ±0.037° N 144.55 ±0.083° W, H = 14 11 55.7 ±0.26 s, h = 33 km, Mag = 4.8 (ISC). M (MOS) = 5.0, Dc = 71.54°, Az = 350.29°.
7	eiP	17	49	28	Gulf of California
	Lm	18	28.5		31.74 ±0.054° N 114.51 ±0.060° W, H = 17 36 28.5 ±0.40 s, h = 32 ±1.5 km, Mag = 5.7 (ISC). M (MOS) = 6.5, MLH(BRA)=6.9, Dc = 89.42°, Az = 320.43°. LmH: 18 s 39 μm.

Date	Phase	h	m	s	Remarks
8	eiPn	02	05	36	Yugoslavia
	eiPb		05	45	42.5 ±0.13° N 18.7 ±0.11° E,
	eiSn		06	45	H = 02 04 06 ±1.7 s, h = 0 (ISC).
	eiSb		07	03	Dc = 5.78°, Az = 168.20°.
8	eiP	08	16	15	Revilla Gigedo Islands Region 19.40 ±0.042° N 108.03 ±0.046° W, H = 08 02 48.5 ±0.94 s, h = 48 ±7.5 km, Mag = 5.3 (ISC). Dc = 96.79°, Az = 308.98°.
8	ei	10	58	15	
8	ePn	11	45	48	Greece 40.7 ±0.13° N 21.6 ±0.22° E, H = 11 43 41 ±1.4 s, h = 47 ±23 km, Mag = 4.4 (ISC). Dc = 8.14°, Az = 155.07°.
9	eiP	01	07	06	Yugoslavia
	eiSn		08	20	42.20 ±0.042° N 18.95 ±0.073° E, H = 01 05 35 ±1.8 s, h = 15 ±17 km, Mag = 4.5 (ISC). Dc = 6.11°, Az = 167.01°.
9	eiPn	03	36	15	Albania 40.22 ±0.033° N 19.86 ±0.037° E, H = 03 34 15.1 ±0.45 s, h = 38 ±5.2 km, Mag = 4.9 (ISC). Dc = 8.19°, Az = 165.02°.
9	e	05	11	26	
9	e	05	45	09	
9	ePKIKP	22	45	09	New Hebrides 17.23 ±0.039° S 167.53 ±0.048° E, H = 22 25 42.7 ±0.26 s, h = 33 km, Mag = 5.1 (ISC). Dc = 140.81°, Az = 48.29°.
10	+iPKIKP	05	20	44	Tonga
	eipPKIKP		21	23	20.25 ±0.031° S 175.25 ±0.033° W, H = 05 01 10.5 ±0.87 s, h = 107 ±8.1 km, Mag = 5.6 (ISC). M (MOS) = 5.5, Dc = 150.41°, Az = 24.01°.

Date	Phase	h	m	s	Remarks
10	e	12	02	08	Czechoslovakia (explosion of 21.9 tons) 50.57° N 14.00° E, H = 12.00 (PRU). Dc = 3.15°, Az = 320.99°.
10	ePKIKP	12	52	37	New Britain Region 5.47 ±0.039° S 151.78 ±0.047° E, H = 12 33 41 ±2.2 s, h = 27 ±16 km, Mag = 5.2 (ISC). M (MOS) = 5.5, Dc = 122.60°, Az = 57.18°.
10	eP	15	25	38	Southern Greece 36.40 ±0.046° N 22.22 ±0.046° E, H = 15 22 40.2 ±0.72 s, h = 39 ±6.7 km, Mag = 4.6 (ISC). Dc = 12.35°, Az = 160.35°.
11	eP	00	26	19	Ionian Sea 37.65 ±0.046° N 20.99 ±0.049° E, H = 00 23 40.8 ±0.70 s, h = 48 ±7.3 km, Mag = 4.6 (ISC). Dc = 10.89°, Az = 163.46°.
11	eiP eiPP eiS	04	36 36 38	39 47 34	Greece 38.74 ±0.044° N 21.76 ±0.044° E, H = 04 34 13 ±1.5 s, h = 6 ±10 km, Mag = 4.6 (ISC). Dc = 10.01°, Az = 158.59°.
11	eiPKIKP eiPKP2	05	32 32	26 34	Tonga 19.33 ±0.031° S 173.84 ±0.036° W, H = 05 12 44 ±1.1 s, h = 44 ±9.9 km, Mag = 5.4 (ISC). M (MOS) = 6.0, Dc = 149.90°, Az = 20.94°.
11	ePKP	08	58	25	West of Tonga 18.14 ±0.073° S 178.29 ±0.097° W, H = 08 40 06.3 ±0.75 s, h = 574 ±9.8 km, Mag = 4.0 (ISC). Dc = 147.52°, Az = 28.04°.
11	eiP	10	58	02	Fox Islands, Aleutian Islands 52.62 ±0.034° N 169.73 ±0.031° W, H = 10 45 58.6 ±0.92 s, h = 54 ±8.3 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 79.42, Az = 4.23°.

Date	Phase	h	m	s	Remarks
11	e	15	22	15	
11	eiPKIKP eiPKP2	20 21	59 00	44 05	Tonga Region 23.54 ±0.080° S 175.56 ±0.084° W, H = 20 39 55.8 ±0.38 s, h = 33 km, Mag = 5.2 (ISC). Dc = 153.44, Az = 26.74°.
11	eiPKIKP eiPKP2 eiPP	23	45 45 49	23 44 21	Tonga Region 23.44 ±0.046° S 175.78 ±0.062° W, H = 23 25 38 ±1.4 s, h = 38 ±13 km, Mag = 5.4 (ISC). M (MOS) = 5.75, Dc = 153.27°, Az = 27.09°.
12	ePKIKP	02	08	39	Samoa Region 14.91 ±0.080° S 175.56 ±0.084° W, H = 01 49 02.5 ±0.33 s, h = 22 km, Mag = 4.6 (ISC). Dc = 145.23°, Az = 21.82°.
12	eiPKIKP eiPKP2	04	19 19	25 41	South of Fiji 22.41 ±0.043° S 176.01 ±0.048° W, H = 03 59 49.9 ±0.91 s, h = 128 ±8.8 km, Mag = 5.2 (ISC). Dc = 152.24°, Az = 26.79°.
12	ePKIKP	05	23	35	Tonga 15.1 ±0.15° S 175.1 ±0.17° W, H = 05 04 0.0 ±0.62 s, h = 33 km, Mag = 4.5 (ISC). Dc = 145.49°, Az = 21.14°.
12	ePKP eiPKP2	14	57 58	48 08	Tonga Region 23.79 ±0.090° S 175.55 ±0.092° W, H = 14 37 49.1 ±0.50 s, h = 5 km, Mag = 4.9 (ISC). Dc = 153.68°, Az = 26.91°.
12	eiP	15	42	51	North Atlantic Ocean 53.84 ±0.073° N 35.20 ±0.047° W, H = 15 36 17.2 ±0.28 s, h = 33 km, Mag = 4.5 (ISC). Dc = 32.76°, Az = 299.93°.

Date	Phase	h	m	s	Remarks
12	+iP	19	34	11	Near South Coast of Honshu, Japan 34.06 ±0.021° N 137.42 ±0.024° E, H = 19 22 25.5 ±0.13 s, h = 336 ±1.1 km, Mag = 4.8 (ISC). Dc = 82.37°, Az = 46.25°.
12	+iP	20	29	06.5	South of Alaska
	ipP		29	15.5	52.67 ±0.040° N 161.53 ±0.038° W, H = 20 17 00.9 ±0.20 s, h = 32 ±0.34 km, Mag = 5.5 (ISC). M (MOS) = 5.5, Dc = 79.53°, Az = 359.15°.
13	eiPKIKP	02	43	43	Loyalty Islands Region 22.0 ±0.11° S 170.4 ±0.15° E, H = 02 24 05 ±4.1 s, h = 30 ±32 km (ISC). Dc = 146.29°, Az = 48.69°.
13	eiPKIKP	06	04	29	Loyalty Islands Region 22.0 ±0.21° S 170.6 ±0.29° E, H = 05 44 51 ±2.4 s, h = 21 km (ISC). Dc = 146.38°, Az = 48.41°.
13	eP	07	04	02	
13	ePKIKP	09	38	12.5	Loyalty Islands Region 22.16 ±0.081° S 170.2 ±0.11° E, H = 09 18 38 ±1.4 s, h = 53 ±15 km (ISC). Dc = 146.29°, Az = 49.12°.
13	ePKIKP	12	31	11	Loyalty Islands Region 21.8 ±0.11° S 170.7 ±0.13° E, H = 12 11 31 ±1.1 s, h = 33 km (ISC). Dc = 146.26°, Az = 48.07°.
13	e	13	37	32	
15	eP	10	30	11	Carlsberg Ridge 3.73 ±0.035° N 64.00 ±0.033° E, H = 10 20 47 ±1.6 s, h = 82 ±15 km, Mag = 5.2 (ISC). M (MOS) = 5.75, Dc = 59.70°, Az = 122.45°.

Date	Phase	h	m	s	Remarks
15	eiP	13	47	44	Southern Alaska 60.31 ±0.021° N 146.03 ±0.041° W, H = 13 36 25.1 ±0.13 s, h = 17 ±0.60 km, Mag = 5.3 (ISC). M (MOS) = 5.5, Dc = 71.01°, Az = 351.21°.
16	eiP	02	23	43	Hindu Kush Region
	eiPP		25	20	36.45 ±0.017° N 70.83 ±0.019° E,
	eiPcP		25	29	H = 02 16 19.7 ±0.20 s, h = 197 ±2.1 km, Mag = 5.5 (ISC). Dc = 40.64°, Az = 86.34°.
16	eiP	03	55	41	Albania
	eiSn		57	20	40.16 ±0.025° N 19.75 ±0.032° E,
	eiSg		58	18	H = 03 53 41.7 ±0.89 s, h = 20 ±7.5 km, Mag = 4.9 (ISC). M (MOS) = 4.75, Dc = 8.23°, Az = 165.69°.
16	ePKP	05	14	20	Loyalty Islands Region 21.9 ±0.13° S 170.2 ±0.15° E, H = 04 54 31 ±1.0 s, h = 47 km (ISC). Dc = 146.06°, Az = 48.87°.
16	eSn	13	50	50	Greece-Albania Border Region 39.5° N 20.6° E, H = 13 46 26.7 (ATH). Dc = 9.03°, Az = 162.50°.
16	eiP	18	15	11	Southern Nevada 37.42 ±0.029° N 114.19 ±0.032° W, H = 18 02 37.3 ±0.23 s, h = 28 ±1.9 km, Mag = 5.6 (ISC). Dc = 84.39°, Az = 323.05°.
16	eiPKIKP	20	05	16	Loyalty Islands Region
	eiPKP2		05	21	21.29 ±0.038° S 171.55 ±0.054° E, H = 19 45 38.0 s, h = 15 ±15 km, Mag = 5.3 (ISC). M (MOS) ≐ 6.0, Dc = 146.24°, Az = 46.38°.
17	eiPKIKP	01	13	23	Loyalty Islands Region 21.61 ±0.072° S 171.1 ±0.11° E, H = 00 53 44 ±1.6 s, h = 52 ±15 km (ISC). Dc = 146.29°, Az = 47.32°.

Date	Phase	h	m	s	Remarks
17	eiP	17	50	18	Southeastern Kurile Islands 48.7° N 155.2° E, H = 17 38 27 s, h = 33 km, Mag = 4.5 (ISC). Dc = 76.92°, Az = 27.02°.
17	eiP	21	10	32	Rat Islands, Aleutian Islands 52.16 ±0.034° N 175.02 ±0.030° E, H = 20 58 35 ±1.5 s, h = 23 ±10 km, Mag = 5.4 (ISC). M (MOS) = 5.0–5.25, Dc = 78.28°, Az = 13.68°.
17	eiP	23	20	53	North Atlantic Ridge 50.92 ±0.061° N 30.08 ±0.038° W, H = 23 14 42.6 ±0.24 s, h = 33 km, Mag = 4.5 (ISC). Dc = 30.33°, Az = 293.17°.
18	eiP	00	17	49	Southern Sumatra 1.59 ±0.043° S 100.67 ±0.051° E, H = 00 05 09 ±2.3 s, h = 45 ±20 km, Mag = 4.9 (ISC). Dc = 86.87°, Az = 95.84°.
18	eiP eipP eiPP	10	46 46 49	14 32 53	Guatemala 14.50 ±0.031° N 91.79 ±0.025° W, H = 10 33 15.8 ±0.46 s, h = 73 ±4.1 km, Mag = 5.6 (ISC). M (MOS) = 6.0, Dc = 91.44°, Az = 293.56°.
18	eiP	14	47	47	Molucca Sea 0.10 ±0.029° S 125.01 ±0.037° E, H = 14 34 01 ±1.1 s, h = 59 ±9.6 km, Mag = 6.0 (ISC). M (MOS) = 5.75, Dc = 101.95°, Az = 76.57°.
18	ePKIKP	15	21	56	Loyalty Islands Region 21.73 ±0.077° S 169.9 ±0.10° E, H = 15 02 20.3 ±0.73 s, h = 33 km, Mag = 4.8 (ISC). Dc = 145.77°, Az = 49.12°.

Date	Phase	h	m	s	Remarks
19	eiP	03	21	23	Gulf of Alaska 59.51 ±0.030° N 144.61 ±0.069° W, H = 03 10 04.1 ±0.22 s, h = 29 ±2.3 km, Mag = 4.7 (ISC). M (MOS) ± 5.0, Dc = 71.64°, Az = 350.30°.
19	iPg	04	08	00	Northern Italy 44.9 ±0.28° N 10.9 ±0.19° E, H = 04 06 31 ±2.8 s, h = 8 km (ISC). Dc = 5.34°, Az = 234.93°.
19	eiP	11	35	14	Fox Islands, Aleutian Islands 53.59 ±0.061° N 167.32 ±0.056° W, H = 11 23 12 ±2.5 s, h = 24 ±18 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 78.55°, Az = 2.69°.
19	–iP Lm	12 13	26 37	39	Turkey 39.17 ±0.032° N 41.56 ±0.026° E, H = 12 22 10.5 ±0.16 s, h = 26 ±0.95 km Mag = 5.8 (ISC). M (MOS) = 6.75, MLH (BRA) = 6.9, Dc = 19.77°, Az = 107.99°. LmH: 12 s 300.0 μm.
19	eiP	13	19	35	Turkey 39.41 ±0.041° N 41.30 ±0.032° E, H = 13 15 13.6 ±0.59 s, h = 62.6 km, Mag = 4.9 (ISC). M (MOS) ± 5.0, Dc = 19.48°, Az = 107.75°.
19	eiP	13	58	59	Turkey 38.99 ±0.038° N 41.77 ±0.032° E, H = 13 54 25 ±1.2 s, h = 32 ±9.5 km, Mag = 5.2 (ISC). M (MOS) = 5.0, Dc = 20.01°, Az = 108.15°.
19	eiP	14	08	27	Turkey 39.21 ±0.077° N 41.4 ±0.11° E, H = 14 03 55 ±6.1 s, h = 14 ±35 km, Mag = 4.7 (ISC). Dc = 19.64°, Az = 108.11°.

Date	Phase	h	m	s	Remarks
19	eiP	14	22	22	Turkey 39.33 ±0.033° N 41.25 ±0.030° E, H = 14 17 56.9 ±0.56 s, h = 39 ±5.7 km, Mag = 5.0 (ISC). M (MOS) = 5.0, Dc = 19.49°, Az = 108.02°.
19	eiP	18	45	45	Turkey 39.13 ±0.056° N 41.48 ±0.047° E, H = 18 41 17.7 ±0.88 s, h = 50 ±9.8 km, Mag = 4.7 (ISC). M (MOS) = 4.5–5.0, Dc = 19.75°, Az = 108.20°.
19	eiP	21	47	18	Turkey 38.8 ±0.10° N 41.4 ±0.33° E, H = 21 42 46 ±2.1 s, h = 33 km (ISC). Dc = 19.90°, Az = 109.10°.
20	eiP	02	18	00	Turkey 39.3 ±0.11° N 41.6 ±0.13° E, H = 02 13 28 ±4.9 s, h = 27 ±43 km (ISC). Dc = 19.68°, Az = 107.63°.
20	iP	09	44	05	Hokkaido, Japan Region 42.98 ±0.014° N 140.60 ±0.023° E, H = 09 32 31.5 ±0.15 s, h = 162 ±1.6 km, Mag = 5.6 (ISC). Dc = 76.50°, Az = 39.00°.
20	eiP	12	03	35	Turkey 39.42 ±0.027° N 40.98 ±0.022° E, H = 11 59 09 ±1.3 s, h = 14 ±8.4 km, Mag = 5.3 (ISC). M (MOS) = 6.0, Dc = 19.26°, Az = 108.16°.
20	eiP	12	06	07	Turkey 39.16 ±0.068° N 40.7 ±0.10° E, H = 12 01 43.7 ±0.46 s, h = 33 km, Mag = 5.4 (ISC). Dc = 19.24°, Az = 109.18°.
20	eiP	13	09	44	Yugoslavia 42.05 ±0.060° N 18.7 ±0.10° E, H = 13 08 06 ±3.9 s, h = 6 ±28 km, Mag = 4.9 (ISC). Dc = 6.22°, Az = 168.97°.

Date	Phase	h	m	s	Remarks
20	eiP	15	21	57	Turkey 39.31 ±0.053° N 40.51 ±0.057° E, H = 15 17 34.7 ±0.70 s, h = 34 ±11 km (ISC). Dc = 19.03°, Az = 109.07°.
20	eiP	17	58	29	Turkey 39.30 ±0.081° N 40.82 ±0.073° E, H = 17 54 08.6 ±0.96 s, h = 70 ±14 km, Mag = 4.2 (ISC). M (MOS) = 4.5, Dc = 19.23°, Az = 108.67°.
20	eiPKP	23	14	49	South of Fiji 23.60 ±0.029° S 176.01 ±0.041° W, H = 22 55 10 ±1.0 s, h = 118 ±9.5 km, Mag = 5.4 (ISC). M (MOS) = 6.0, Dc = 153.35°, Az = 27.66°.
20	eiPKP2	23	33	32	Tonga Region 23.8 ±0.20° S 175.3 ±0.19° W, H = 23 13 19 ±1.1 s, h = 13 km, Dc = 153.80°, Az = 26.43°.
21	eiP	00	19	36	Turkey 39.28 ±0.053° N 41.85 ±0.049° E, H = 00 15 06.5 ±0.77 s, h = 54 ±9.1 km, Mag = 4.6 (ISC). M (MOS) = 4.75, Dc = 19.90°, Az = 107.35°.
21	eiP	01	33	18	Turkey 40.33 ±0.027° N 27.40 ±0.032° E, H = 01 30 43.5 ±0.21 s, h = 12 km, Mag = 4.9 (ISC). M (MOS) = 5.0, Dc = 10.76°, Az = 132.96°.
21	eP	02	29	36	Turkey 39.08 ±0.049° N 41.5 ±0.10° E, H = 02 35 10 ±1.3 s, h = 69 ±12 km (ISC). Dc = 19.77°, Az = 108.29°.
21	eiP	05	13	51	Mindanao, Philippine Islands 8.48 ±0.020° N 126.62 ±0.022° E, H = 05 00 24.0 ±0.095 s, h = 39 ±1.2 km, Mag = 5.8 (ISC). Dc = 96.45°, Az = 69.77°.

Date	Phase	h	m	s	Remarks
21	eiPn	11	52	10	Yugoslavia 42.21 ±0.040° N 18.75 ±0.060° E, H = 11 50 40 ±1.6 s, h = 20 ±15 km, Mag = 4.8 (ISC). Dc = 6.07°, Az = 168.37°.
21	eiP	15	22	24	Turkey 39.8 ±0.14° N 42.0 ±0.13° E, H = 15 18 02 ±1.2 s, h = 125 ±17 km (ISC). Dc = 19.73°, Az = 105.89°.
21	eiP	20	38	05	East of Ryukyu Islands 28.89 ±0.026° N 132.09 ±0.030° E, H = 20 25 37.0 ±0.64 s, h = 39 ±5.6 km, Mag = 5.2 (ISC). M (MOS) = 4.75, Dc = 83.74°, Az = 53.09°.
22	eiP eipP	14	31 33	45 53	Sea of Okhotsk 50.28 ±0.019° N 147.71 ±0.026° E, H = 14 21 13.6 ±0.15 s, h = 626 ±2.2 km, Mag = 5.0 (ISC). Dc = 73.12°, Az = 30.60°.
22	eP	17	20	35	Western New Guinea Region 1.73 ±0.037° S 134.19 ±0.047° E, H = 17 02 05 ±2.0 s, h = 27 ±15 km, Mag = 5.6 (ISC). M (MOS) = 5.5, Dc = 109.08°, Az = 70.33°.
22	eiPKIKP eiPKP2	18	01 01	46 57	Loyalty Islands Region 22.43 ±0.026° S 170.61 ±0.040° E, H = 17 42 10.1 ±0.69 s, h = 36 ±6.4 km, Mag = 5.6 (ISC). M (MOS) = 6.0, Dc = 146.74°, Az = 48.81°.
22	eP	20	40	38	Turkey 39.4° N 41.4° E, H = 20 36 12, h = 4.0 (ISC). Dc = 19.6°, Az = 107.65°.
22	eiPKIKP	20	51	36	Loyalty Islands Region 22.46 ±0.060° S 170.58 ±0.065° E, H = 20 31 58 ±1.1 s, h = 33 ±12 km, Mag = 5.0 (ISC). Dc = 146.75°, Az = 48.89°.

Date	Phase	h	m	s	Remarks
22	eiP	21	55	01	Jan Mayen Island Region 71.85 ±0.060° N 11.5 ±0.18° W, H = 21 49 18.0 ±0.44 s, h = 33 km, Mag = 4.4 (ISC). Dc = 27.17°, Az = 340.82°.
23	eiPKIKP	00	13	13	Loyalty Islands Region 22.47 ±0.057° S 170.54 ±0.070° E, H = 23 53 36.6 ±0.96 s, h = 44 ±12 km (ISC) Dc = 146.74°, Az = 48.95°.
23	eiP	01	40	09	Turkey 39.32 ±0.058° N 40.97 ±0.050° E, H = 01 35 45 ±2.1 s, h = 30 ±19 km (ISC). M (MOS) = 4.5, Dc = 19.32°, Az = 108.42°.
23	eP	03	57	09	Indonesia 0.9° S 98.7° E, H = 03 44 24 (MOS). Dc = 85.05°, Az = 96.86°.
23	e	15	01	46	
23	eiP eiPP	18	34 37	35 52	Southwestern Ryukyu Islands 23.86 ±0.025° N 123.27 ±0.029° E, H = 18 22 17.4 ±0.45 s, h = 39 ±4.0 km, Mag = 5.4 (ISC). M (MOS) = 5.25, Dc = 82.64°, Az = 62.46°.
23	eiPKIKP	22	18	36	Loyalty Islands Region 22.42 ±0.082° S 170.0 ±0.12° E, H = 21 58 57.9 ±0.87 s, h = 18 km (ISC). Dc = 146.41°, Az = 49.66°.
24	eiPP	07	35	15	Northern Chile 20.03 ±0.026° S 69.26 ±0.042° W, H = 07 17 15.9 ±0.48 s, h = 87 ±4.5 km, Mag = 5.4 (ISC). M (MOS) ≐ 5.0, Dc = 102.30°, Az = 253.82°.

Date	Phase	h	m	s	Remarks
25	eiSg	06	57	16	Yugoslavia 43.1° N 20.5° E, H = 06 54 10 (BCIS). Dc = 5.6°, Az = 153.61°.
26	eiPKIKP eiPKP2	01	11 12	38 11	Kermadec Islands Region 27.89 ±0.055° S 177.08 ±0.066° W, H = 00 51 54 ±1.2 s, h = 87 ±12 km, Mag = 5.5 (ISC). M (MOS) = 5.0, Dc = 156.95°, Az = 33.64°.
26	eiP	06	01	12	Portugal 38.05 ±0.036° N 8.39 ±0.049° W, H = 05 56 23.2 ±0.31 s, h = 20 km, Mag = 4.6 (ISC). Dc = 21.09°, Az = 250.78°.
26	eiPKIKP	13	47	51	Loyalty Islands Region 22.0 ±0.13° S 169.9 ±0.14° E, H = 13 28 14 ±2.2 s, h = 42 ±24 km (ISC). Dc = 146.02°, Az = 49.39°.
27	eiPn eiSn	04	19 20	42 48	Yugoslavia 42.22° N 18.70° E, H = 04 18 13.3, h = 39 km, Mag = 4.6 (USCGS). Dc = 6.05°, Az = 168.69°.
28	eiPKP eiPKP2	07	49 50	20 10	Off Coast of North Island 35.94 ±0.050° S 178.52 ±0.069° E, H = 07 29 38.6 ±0.70 s, h = 138 ±6.9 km, Mag = 5.5 (ISC). Dc = 161.62°, Az = 55.13°.
28	eiPKIKP eipPKIKP	10	21 23	05 09	Solomon Islands 4.59 ±0.023° S 155.21 ±0.024° E, H = 10 03 03.3 ±0.44 s, h = 511 ±5.5 km, Mag = 5.4 (ISC). Dc = 123.76°, Az = 53.20°.
28	eiP eiPP	10	50 52	27 02	Hindu Kush Region 36.38 ±0.023° N 70.79 ±0.029° E, H = 10 43 01.3 ±0.25 s, h = 174 ±2.9 km, Mag = 4.7 (ISC). Dc = 40.66°, Az = 86.45°.

Date	Phase	h	m	s	Remarks
28	eiPn eiSn	12	42 43	36 42	Yugoslavia 42.5 ±0.25° N 18.2 ±0.14° E, H = 12 41 13 ±3.1 s, h = 72 ±19 km (ISC). Dc = 5.75°, Az = 171.85°.
29	eiP	13	40	13	Kurile Islands 46.40 ±0.050° N 152.74 ±0.057° E, H = 13 28 18.6 ±0.57 s, h = 57 ±5.1 km, Mag = 4.6 (ISC). Dc = 78.17°, Az = 29.63°.
30	eiP	12	53	15	Mindoro, Philippine Islands 13.40 ±0.023° N 120.79 ±0.029° E, H = 12 40 28.2 ±0.47 s, h = 86 ±4.3 km, Mag = 5.3 (ISC). M (MOS) = 5.0, Dc = 89.03°, Az = 71.02°.
30	eiPKP	13	57	29	Tonga Region 17.8 ±0.13° S 172.9 ±0.17° W, H = 13 37 39.7 ±0.55 s, h = 33 km, Mag = 4.6 (ISC). Dc = 148.64°, Az = 18.54°.
30	eiP eipP eiSP eiPP	20	32 32 32 34	06 15 20 38	Southern Alaska 61.34 ±0.021° N 147.44 ±0.049° W, H = 20 20 55.0 ±0.70 s, h = 45 ±6.2 km, Mag = 5.6 (ISC). M (MOS) = 5.75, Dc = 70.14°, Az = 352.15°.
31	eiP	18	21	02	Jan Mayen Island Region 71.53 ±0.040° N 3.1 ±0.13° W, H = 18 15 39.5 ±0.30 s, h = 33 km, Mag = 4.9 (ISC). M (MOS) = 5.5, Dc = 25.26°, Az = 345.05°.

Date	Phase	h	m	s	Remarks
1	eiP	01	43	57	Jan Mayen Islands Region
	eipP		44	06	71.62 ±0.044° N 2.8 ±0.12° W,
	ePPP		44	47	H = 01 38 32.7 ±0.31 s, h = 33 km,
					Mag = 4.8 (ISC). M (MOS) = 4.75,
					Dc = 25.29°, Az = 345.35°.
1	eiP	12	38	12	Greece
					38.03 ±0.079° N 22.81 ±0.088° E,
					H = 12 35 34 ±1.0 s, h = 39 ±12 km,
					Mag = 4.6 (ISC).
					Dc = 10.96°, Az = 155.60°.
1	eiP	19	23	27	Jan Mayen Island Region
					71.52 ±0.036° N 3.1 ±0.11° W,
					H = 19 18 01.7 ±0.27 s, h = 33 km,
					Mag = 4.9 (ISC). M (MOS) = 4.75,
					Dc = 25.25°, Az = 345.04°.
1	eiPn	23	18	17	Northern Italy
	eiSg		20	05	45.0 ±0.32° N 11.2 ±0.20° E,
					H = 23 17 18 ±3.4 s, h = 0 km (ISC).
					Dc = 5.14°, Az = 234.28°.
2	eP	01	06	52	Rat Islands, Aleutian Islands
					51.10 ±0.050° N 177.90 ±0.040° E,
					H = 00 54 40 ±3.1 s, h = 4 ±18 km,
					Mag = 5.0 (ISC). M (MOS) = 5.5,
					Dc = 79.74°, Az = 12.17°.
2	eiPP	08	18	40	Northeastern I. Cordillera
					4.28 ±0.057° S 105.78 ±0.071° W,
					H = 07 59 24 ±3.3 s, h = 199 ±31 km,
					Mag = 4.8 (ISC). M (MOS) = 5.5,
					Dc = 114.68°, Az = 292.83°.
2	eP	14	26	32	Adriatic Sea
					41.7 ±0.43° N 18.9 ±0.26° E,
					H = 14 24 51 ±6.3 s, h = 54 ±31 km (ISC).
					Dc = 6.62°, Az = 168.21°.
4	eP	01	30	10	Romania
					45.77 ±0.039° N 26.63 ±0.052° E,
					H = 01 29 29.2 ±0.47 s, h = 130 ±6.6 km,
					Mag = 4.3 (ISC).
					Dc = 6.91°, Az = 106.68°.

Date	Phase	h	m	s	Remarks
5	ePKP	00	27	45	West of Tonga
					21.71 ±0.034° S 176.42 ±0.037° W,
					H = 00 08 07.4 ±0.74 s, h = 234 ±7.3 km,
					Mag = 4.7 (ISC).
					Dc = 151.45°, Az = 27.07°.
6	eiPn	12	40	40	Yugoslavia
	eiSn		41	53	42.15 ±0.056° N 18.96 ±0.086° E,
	eiSg		42	38	H = 12 39 08.8 ±0.58 s, h = 33 km,
					Mag = 4.6 (ISC).
					Dc = 6.16°, Az = 167.04°.
8	eiP	12	19	27	South Atlantic Ridge
					22.56 ±0.034° S 10.72 ±0.038° W,
					H = 12 07 49.7 ±0.18 s, h = 33 km,
					Mag = 5.2 (ISC).
					Dc = 74.70°, Az = 206.57°.
8	eiP	21	29	38	Halmahera
	eiPP		33	51	2.34 ±0.022° N 128.40 ±0.026° E,
					H = 21 15 52.3 ±0.87 s, h = 90 ±7.9 km,
					Mag=6.6 (ISC), mPPV (BRA)=6.7, mPPH (BRA)=6.7,
					Dc = 102.29°, Az = 72.32°.
					PPV: 3 s 1.0 μm, PPH: 3 s 0.6 μm.
9	eP	12	17	31	Southern Sumatra
					4.16 ±0.032° S 102.83 ±0.039° E,
					H = 12 04 34 ±2.1 s, h = 47 ±19 km,
					Mag = 5.3 (ISC).
					Dc = 90.22°, Az = 95.94°.
9	eiP	18	52	08	Venezuela
					10.84 ±0.033° N 69.49 ±0.023° W,
					H = 18 39 58.1 ±0.19 s, h = 8 km,
					Mag = 5.3 (ISC).
					Dc = 79.76°, Az = 274.76°.
9	eP	20	50	14	Eastern Gulf of Aden
					14.71 ±0.040° N 52.36 ±0.040° E,
					H = 20 42 14 ±2.4 s, h = 101 ±24 km,
					Mag = 4.6 (ISC). M (MOS) = 5.0,
					Dc = 44.25°, Az = 126.82°.

Date	Phase	h	m	s	Remarks
11	eiP	17	50	21	Northern Colombia 6.78 ±0.019° N 72.95 ±0.019° W, H = 17 38 04.2 ±0.38 s, h = 168 ±3.6 km, Mag = 5.7 (ISC). Dc = 85.04°, Az = 274.56°.
12	eiPKIKP eiSKKS	11	49 59	18 42	Loyalty Islands Region 23.00 ±0.025° S 170.60 ±0.028° E, H = 11 29 37 ±1.1 s, h = 17 ±8.1 km, Mag = 5.9 (ISC). M (MOS) = 6.5, Dc = 147.21°, Az = 49.40°.
12	eP	16	53	39	Northern California 39.40 ±0.023° N 120.16 ±0.032° W, H = 16 41 01.5 ±0.19 s, h = 3 km, Mag = 5.4 (ISC). Dc = 84.91°, Az = 328.14°.
13	eiPKIKP	01	10	22	Loyalty Islands Region 23.04 ±0.027° S 170.72 ±0.041° E, H = 00 50 39 ±2.1 s, h = 5 ±13 km, Mag = 5.0 (ISC). M (MOS) = 5.0, Dc = 147.30°, Az = 49.27°.
13	eiPn eiSn	13	00 00	02 24	Poland 49.0 ±0.13° N 19.2 ±0.13° E, H = 12 59 33 ±1.2 s, h = 0 km (ISC). Dc = 1.01°, Az = 58.33°.
13	eiP	20	28	15	Turkey 39.17 ±0.095° N 40.85 ±0.070° E, H = 20 23 51 ±1.1 s, h = 46 ±14 km (ISC). M (MOS) = 4.5, Dc = 19.32°, Az = 108.95°.
13	e	21	55	43	
14	eiPKIKP Lm	23 00	37 23.5	20	South Sandwich Islands Region 60.33 ±0.043° S 27.25 ±0.095° W, H = 23 18 41.9 ±0.20 s, h = 27 ±0.37 km, Mag = 5.9 (ISC). M (MOS) = 7.0, MLH (BRA) = 6.5, Dc = 113.97°, Az = 202.37°. LmH: 20 s 11.5 μm.

Date	Phase	h	m	s	Remarks
15	eiSn	00	12	13	Austria 46.25° N 13.25° E, H = 00 10 41 s (BCIS). Dc = 3.25°, Az = 325.28°.
15	ePKIKP	04	26	50	Tonga Region 23.75 ±0.054° S 175.50 ±0.076° W, H = 04 07 03 ±1.6 s, h = 54 ±15 km, Mag = 5.2 (ISC). M (MOS) = 6.0, Dc = 153.66°, Az = 26.78°.
17	eiPKIKP eiPKP2	20	37 37	17 50	Kermadec Islands Region 27.93 ±0.050° S 176.42 ±0.063° W, H = 20 17 25.8 ±0.32 s, h = 39 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 157.22°, Az = 32.31°.
17	eiPKP	21	24	56	West of Tonga 20.77 ±0.046° S 176.29 ±0.060° W, H = 21 05 30 ±1.0 s, h = 251 ±9.8 km, Mag = 4.4 (ISC). Dc = 150.61°, Az = 26.22°.
18	-iP eiPP	20	50 52	49 14	Southern Persia 27.87 ±0.023° N 54.30 ±0.018° E, H = 20 43 56.5 ±0.53 s, h = 39 ±4.7 km, Mag = 5.9 (ISC). M (MOS) = 5.5, mPV (BRA) = 6.2, Dc = 35.16°, Az = 111.66°. PV: 1.5 s 0.51 μm.
20	eiPKIKP	17	51	54	Kermadec Islands Region 28.22 ±0.087° S 176.40 ±0.094° W, H = 17 32 06.1 ±0.49 s, h = 75 km, Mag = 4.9 (ISC). Dc = 157.50°, Az = 32.58°.
20	eiP	20	44	41	Kurile Islands Region 44.73 ±0.055° N 150.33 ±0.050° E, H = 20 32 40 ±1.3 s, h = 29 ±8.2 km, Mag = 4.5 (ISC). M (MOS) = 5.0, Dc = 78.80°, Az = 31.97°.

Date	Phase	h	m	s	Remarks
20	eiP	23	12	09	Greenland Sea 73.39 ±0.079° N 8.1 ±0.25° E, H = 23 06 38.7 ±0.49 s, h = 33 km, Mag = 4.3 (ISC). Dc = 25.63°, Az = 354.02°.
22	eiPKIKP	21	54	55	Tonga Region 17.1 ±0.14° S 172.5 ±0.12° W, H = 21 35 13.5 ±0.67 s, h = 33 km, Mag = 4.4 (ISC). Dc = 148.05°, Az = 17.54°.
23	eiP	01	41	47	Kurile Islands Region 44.65 ±0.039° N 150.42 ±0.043° E, H = 01 29 46 ±1.2 s, h = 17 ±8.0 km, Mag = 5.0 (ISC). M (MOS) = 5.75, Dc = 78.90°, Az = 31.95°.
23	eiPg	13	44	51	Small local shock.
24	eiP	10	07	40	Southern Persia
	eiPP		09	09	27.36 ±0.032° N 54.58 ±0.026° E, H = 10 00 47.5 ±0.69 s, h = 46 ±6.3 km, Mag = 5.3 (ISC). M (MOS) = 5.25, Dc = 35.69°, Az = 111.97°.
24	eiPKIKP	17	07	58	Loyalty Islands Region 22.33 ±0.026° S 171.66 ±0.032° E, H = 16 48 31.7 ±0.49 s, h = 125 ±4.8 km, Mag = 5.2 (ISC). Dc = 147.18°, Az = 47.21°.
25	+iP	06	15	37	Guerrero, Mexico
	eipP		16	01	18.37 ±0.039° N 100.78 ±0.027° W, H = 06 02 28.8 ±0.44 s, h = 39 ±3.7 km, Mag = 5.7 (ISC). M (MOS) = 5.25, mPV (BRA) = 6.6, Dc = 93.71°, Az = 302.74°. PV: 1.5 s 0.09 μm.
	eiPP		19	22	
25	eiPKIKP	08	55	56	Loyalty Islands Region 22.70 ±0.064° S 170.3 ±0.10° E, H = 08 36 24 ±1.5 s, h = 69 ±14 km, Mag = 4.8 (ISC). Dc = 146.79°, Az = 49.52°.

Date	Phase	h	m	s	Remarks
25	eiP	20	31	16	Near East Coast of Kamchatka 53.07 ±0.042° N 159.69 ±0.051° E, H = 20 19 44.9 ±0.65 s, h = 65 ±5.9 km, Mag = 5.0 (ISC). M (MOS) = 4.5, Dc = 74.24°, Az = 22.39°.
26	ePP	04	38	10	Taiwan Region 22.26 ±0.091° N 117.9 ±0.11° E, H = 04 22 57 ±1.5 s, h = 51 ±15 km, Mag = 4.9 (ISC). M (MOS) = 5.0, Dc = 80.58°, Az = 67.28°.
26	eiP	05	21	08	India-China Border Region 27.49 ±0.022° N 92.61 ±0.026° E, H = 05 10 56.2 ±0.13 s, h = 20 ±1.1 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 60.66°, Az = 80.61°.
29	eiPKIKP	03	03	36	West of Tonga
	eiPKP2		03	49	20.05 ±0.036° S 176.14 ±0.037° W, H = 02 44 18.4 ±0.73 s, h = 243 ±7.3 km, Mag = 4.9 (ISC). Dc = 149.97°, Az = 25.50°.
	eipPKIKP		04	45	
29	e	10	24	48	
30	iPg	11	00	36	Explosion CSSR (Slovakia).

Date	Phase	h	m	s	Remarks
1	ePn	11	36	06	Czechoslovakia (explosion of 18.3 tons) 50.58 ° N 14.05° E, H = 11 34 (PRU). Dc = 3.13°, Az = 321.55°.
2	+iPn	11	23	24	Romania
	eiS		24	40	45.77 ±0.020° N 26.50 ±0.026° E, H = 11 21 45.2 ±0.22 s, h = 141 ±2.8 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 6.86°, Az = 106.98°. PV: 1.5 s 0.90 μm, PH: 1.5 s 0.78 μm.
5	eiP	08	43	27	Republic of the Congo
	eiPP		45	36	0.02 ±0.039° N 29.94 ±0.054° E, H = 08 34 40.1 ±0.27 s, h = 28 ±1.7 km, Mag = 5.3 (ISC). Dc = 49.23°, Az = 162.94°.
6	eiP	14	00	18	East Coast of Kamchatka 51.33 ±0.041° N 159.38 ±0.065° E, H = 13 48 33 ±1.7 s, h = 27 ±12 km, Mag = 4.6 (ISC). M (MOS) = 4.5, Dc = 75.74°, Az = 23.33°.
7	–iPKIKP	16	14	31.8	Loyalty Islands Region
	eiPKP2		14	34.0	21.59 ±0.024° S 170.56 ±0.027° E, H = 15 55 11.3 ±0.45 s, h = 165 ± 4.2 km, Mag = 6.0 (ISC). M (MOS) = 6.0, mPPV (BRA) = 6.4, Dc = 146.00°, Az = 48.07°. PPV: 2 s 0.62 μm.
	eiPP		17	53	
	eiSKKS		24	34	
7	+iP	21	07	03	Southern Alaska 61.66 ±0.022° N 150.06 ±0.050° W, H = 20 55 56.0 ±0.73 s, h = 54 ±6.5 km, Mag = 5.3 (ISC). M (MOS) = 5.5, mPV (BRA) = 6.5, Dc = 70.04°, Az = 353.52°. PV: 1.5 s 0.25 μm.
8	eiPKIKP	00	31	56	West of Tonga
	eiPKP2		32	03	16.54 ±0.051° S 177.45 ±0.045° W, H = 00 12 16.4 ±0.24 s, h = 18 km, Mag = 5.6 (ISC). M (MOS) = 6.0, Dc = 146.27°, Az = 25.73°.

Date	Phase	h	m	s	Remarks
8	eiPKP	02	41	18	Tonga 19.40 ±0.045° S 175.16 ±0.040° W, H = 02 21 44.3 ±0.95 s, h = 128 ±9.1 km, Mag = 5.0 (ISC). Dc = 149.63°, Az = 23.36°.
8	eiPKP	02	53	54	West of Tonga 16.48 ±0.048° S 177.31 ±0.042° W, H = 02 34 11 ±3.4 s, h = 15 ±20 km, Mag = 4.8 (ISC). M (MOS) = 6.0, Dc = 146.25°, Az = 25.46°.
8	eiP	12	14	25	Near East Coast of Honshu, Japan 35.45 ±0.025° N 140.45 ±0.033° E, H = 12 02 06 ±0.35 s, h = 40 ±3.0 km, Mag = 4.9 (ISC). Dc = 82.61°, Az = 43.45°.
8	+iPKIKP	15	02	42	Fiji Region 15.69 ±0.042° S 177.76 ±0.038° W, H = 14 43 54.0 ±0.59 s, h = 423 ±6.8 km, Mag = 4.7 (ISC). Dc = 145.37°, Az = 25.78°.
8	eiP	17	56	05	Andreanof Islands, Aleutian Islands 51.69 ±0.036° N 173.85 ±0.027° W, H = 17 43 55 ±1.4 s, h = 27 ±10 km, Mag = 5.2 (ISC). M (MOS) = 5.5, Dc = 80.08°, Az = 6.90°.
9	eiPKIKP	02	25	06	West of Tonga 17.84 ±0.054° S 178.20 ±0.042° W. H = 02 06 35.7 ±0.45 s, h = 643 ±6.5 km, Mag = 4.7 (ISC). Dc = 147.27°, Az = 27.71°.
9	eiP	06	55	55	Sudan 12.63 ±0.031° N 30.75 ±0.038° E, H = 06 48 39 ±3.5 s, h = 0 ±21 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 37.21°, Az = 157.62°.
9	eiP	10	35	35	Sudan 12.66 ±0.054° N 30.91 ±0.073° E, H = 10 28 28 ±1.8 s, h = 50 ±19 km, Mag = 4.1 (ISC). M (MOS) = 5.0, Dc = 37.22°, Az = 157.36°.

Date	Phase	h	m	s	Remarks
10	eiP	21	29	01	Southeastern Alaska 57.41 ±0.033° N 136.16 ±0.079° W, H = 21 17 34.8 ±0.25 s, h = 33 km, Mag = 4.8 (ISC). Dc = 72.48°, Az = 345.21°.
11	eiPKIKP	00	18	03	Samoa Region 15.8 ±0.13° S 172.7 ±0.11° W, H = 23 58 25.2 ±0.53 s, h = 40 km, Mag = 4.6 (ISC). Dc = 146.68°, Az = 17.39°.
11	eiPn	02	57	21	Albania 41.4 ±0.18° N 19.7 ±0.33° E, H = 02 55 40 ±2.3 s, h = 49 ±56 km, Dc = 7.01°, Az = 163.80°.
11	eSg	03	31	21	Austria 47.52 ±0.047° N 13.58 ±0.062° E, H = 03 29 59.7 ±0.82 s, h = 5 ±0.1 km, Dc = 2.46°, Az = 256.03°.
11	eiPKIKP	21	00	33	South of Kermadec Islands 32.82 ±0.058° S 178.41 ±0.090° W, H = 20 40 34 ±4.3 s, h = 1 ±26 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 160.71°, Az = 42.99°.
12	e	00	24	27	South of Timor 11.94 ±0.038° S 121.77 ±0.044° E, H = 00 06 38.9 ±0.18 s, h = 37 ±0.92 km, Mag = 5.6 (ISC). M (MOS) = 5.75, Dc = 108.58°, Az = 87.19°.
12	eiPKP	04	42	27	Kermadec Islands Region 31.36 ±0.047° S 177.76 ±0.062° W, H = 04 22 17.2 ±0.29 s, h = 39 ±2.0 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 159,75°, Az = 39.36°.
12	e	09	31	03	
12	e	10	29	37	
12	e	12	24	25	
12	e	14	29	33	

Date	Phase	h	m	s	Remarks
13	eP	02	27	14	Gulf of Alaska 59.47 ±0.027° N 145.32 ±0.063° W, H = 02 15 46.4 ±0.20 s, h = 20 ±1.8 km, Mag = 5.0 (ISC). Dc = 71.77°, Az = 350.66°.
13	e	11	12	27	Near earthquake?
13	e	13	11	26	Near earthquake?
13	e	13	48	26	Near earthquake?
13	eiP	18	56	38	Rat Islands, Aleutian Islands 51.6 ±0.28° N 176.3 ±0.24° E, H = 18 44 30 ±1.3 s, h = 33 km, Mag = 4.8 (ISC). Dc = 79.04°, Az = 13.04°.
14	eP	01	13	51	Southern Sinkiang Province, China 36.45 ±0.032° N 87.43 ±0.040° E, H = 01 04 42.9 ±0.21 s, h = 14 ±0.69 km, Mag = 5.2 (ISC). M (MOS) = 6.0, Dc = 51.60°, Az = 75.64°.
14	eP	02	52	09	Tonga 15.12 ±0.070° S 173.35 ±0.053° W, H = 02 32 32.1 ±0.28 s, h = 33 km, Mag = 4.8 (ISC). Dc = 145.93°, Az = 18.23°.
15	eiPn	07	01	01	Romania 45.64 ±0.022° N 26.38 ±0.032° E, H = 06 59 19.2 ±0.22 s, h = 140 ±2.6 km, Mag = 4.7 (ISC). Dc = 6.84°, Az = 108.26°.
15	eiPKIKP	08	49	28	West of Tonga 18.00 ±0.059° S 178.34 ±0.034° W, H = 08 30 52.3 ±0.37 s, h = 587 ±5.2 km, Mag = 4.7 (ISC). Dc = 147.37°, Az = 28.04°.

Date	Phase	h	m	s	Remarks
16	eiP	09	34	34	West Pakistan 29.99 ±0.041° N 68.61 ±0.043° E, H = 09 26 37 ±1.6 s, h = 30 ±13 km, Mag = 4.9 (ISC). M (MOS) = 5.5, Dc = 43.04°, Az = 95.74°.
16	eiPn	09	50	04	Central Italy 42.1 ±0.17° N 13.7 ±0.16° E, H = 09 48 20 ±2.2 s, h = 0 km, Mag = 4.3 (ISC). Dc = 6.57°, Az = 202.88°.
16	e	15	15	41	
17	eiPKP	10	35	01	Santa Cruz Islands 11.00 ±0.032° S 166.75 ±0.033° E, H = 10 15 39.1 ±0.87 s, h = 36 ±8.1 km, Mag = 5.3 (ISC). M (MOS) = 5.5, Dc = 135.08°, Az = 44.64°.
17	eiPKIKP	18	38	43	South of Fiji
	eiPKHKP		38	50	22.32 ±0.034° S 179.21 ±0.033° E,
	eiPKP2		39	01	H = 18 20 07.9 s, h = 620 ±6.5 km, Mag = 5.2 (ISC). Dc = 150.51°, Az = 35.30°.
17	eiP	21	55	36	Near Coast of Peru
	eiPP	22	00	01	10.74 ±0.028° S 78.63 ±0.033° W,
	Lm		44.5		H = 21 41 46.6 ±0.16 s, h = 38 ±3.6 km, Mag = 6.3 (ISC). MLH (BRA) = 7.6, MLV (BRA) = 8.0, Dc = 101.73°, Az = 267.01°. LmH: 18 s 158.0 μm, LmV: 18 s 391.5 μm.
18	eP	18	56	28	Colombia 3.6 ±0.11° N 74.5 ±0.14° W, H = 18 43 37.6 ±0.76 s, h = 42 ±1.1 km, Mag = 5.0 (ISC). Dc = 88.42°, Az = 273.59°.
18	eiPKP2	22	47	04	Samoa Region 14.92 ±0.052° S 174.19 ±0.050° W, H = 22 27 29.2 ±0.76 s, h = 69 ±6.8 km, Mag = 5.4 (ISC). Dc = 145.55°, Az = 19.56°.

Date	Phase	h	m	s	Remarks
19	–iP	04	05	28	Eastern Kazakhstan 49.77 ±0.024° N 78.03 ±0.035° E, H = 03 57 57.8 ±0.14 s, h = 0 km, Mag = 5.6 (ISC). Dc = 39.06°, Az = 64.07°.
19	–iP	08	11	17	North of Ascension Island
	eipP		11	28	1.52 ±0.035° S 15.37 ±0.028° W,
	eiPcP		12	14	H = 08 01 35.1 ±0.17 s, h = 42 ±3.0 km,
	eiPP		13	34	Mag = 6.0 (ISC). M (MOS) = 7.0, MLH (BRA) = 6.8,
	eiPPP		14	43	Dc = 56.97°, Az = 219.80°.
	eisS		19	28	LmH: 12 s 45.5 μm.
	Lm		36.5		
19	eiP	19	48	10	Off East Coast of Kamchatka
	eipP		48	19	51.20 ±0.042° N 159.06 ±0.05° E,
					H = 19 36 24.8 ±0.24 s, h = 33 ±2.1 km, Mag = 4.7 (ISC). M (MOS) = 5.0, Dc = 75.77°, Az = 23.58°.
20	eiP	01	02	13	Kashmir-Tibet Border Region
	eiPP		04	10	33.55 ±0.047° N 78.70 ±0.066° E,
					H = 00 53 38.7 ±0.34 s, h = 28 ±5.2 km, Mag = 4.7 (ISC). M (MOS) = 5.5, Dc = 47.57°, Az = 84.31°.
20	eiPn	04	59	46	Yugoslavia
	eiSn	05	00	44	43.2 ±0.12° N 17.7 ±0.15° E,
	eiSg		01	16	H = 04 58 31 ±1.2 s, h = 33 km (ISC). Dc = 4.95°, Az = 174.99°.
20	eiPn	09	39	54	Northern Italy
	eiSg		41	39	44.13 ±0.052° N 12.27 ±0.066° E,
					H = 09 38 35.4 ±0.63 s, h = 48 ±7.4 km, Mag = 4.3 (ISC). Dc = 5.25°, Az = 221.53°.
20	e	13	15	15	
20	eiPKIKP	13	55	01	New Hebrides 15.44 ±0.024° S 167.61 ±0.030° E, H = 13 35 50.5 ±0.35 s, h = 142 ±3.4 km, Mag = 5.0 (ISC). Dc = 139.33°, Az = 46.76°.
21	e	11	01	49	

Date	Phase	h	m	s	Remarks
21	eiPn	16	19	22	Greece 39.53 ±0.050° N 22.11 ±0.061° E, H = 16 17 04 ±0.68 s, h = 57 ±8.8 km, Mag = 4.6 (ISC). M (MOS) = 4.5, Dc = 9.36°, Az = 155.49°.
22	eiP	03	13	57	Burma-India Border Region 23.04 ±0.031° N 94.28 ±0.029° E, H = 03 03 24.4 ±0.58 s, h = 72 ±5.5 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = 64.79°, Az = 83.11°.
22	–iP	12	58	43	Near East Coast of Kamchatka
	eisP		59	05	55.16 ±0.028° N 162.10 ±0.035° E, H = 12 47 18.3 ±0.64 s, h = 60 ±6.1 km, Mag = 5.3 (ISC). M (MOS) = 5.0, Dc = 72.92°, Az = 20.14°.
24	eiP	14	37	47	Persia-USSR Border Region 37.32 ±0.037° N 59.60 ±0.028° E, H = 14 31 16 ±1.2 s, h = 23 ±9.3 km, Mag = 5.0 (ISC). M (MOS) ≐ 5.0, Dc = 32.65°, Az = 93.46°.
25	eiP	18	16	23	Honshu, Japan
	eisP		16	38	36.65 ±0.020° N 138.31 ±0.021° E, H = 18 04 11.3 ±0.58 s, h = 29 ±5.0 km, Mag = 5.1 (ISC). M (MOS) = 5.0, Dc = 80.64°, Az = 44.20°.
26	eiPKIKP	18	48	20	New Hebrides 18.26 ±0.025° S 167.54 ±0.036° E, H = 18 28 54.4 ±0.50 s, h = 37 ±4.6 km, Mag = 5.4 (ISC). Dc = 141.69°, Az = 49.14°.
27	–iP	06	04	11	Novaya Zemlya
	eiPP		05	09	73.40 ±0.015° N 54.57 ±0.059° E, H = 05 57 57.9 ±0.097 s, h = 0 km, Mag = 6.4 (ISC). MLH (BRA) = 5.5, Dc = 30.20°, Az = 20.34°. LmH: 3 s 1.8 μm.
	eiPPP		05	27	
	eiPcP		07	11	
	eiSSS		11	08	
	Lm		15		

Date	Phase	h	m	s	Remarks
27	+iP	14	34	32	North Pacific Ocean
	eiPP		38	25	22.11 ±0.018° N 145.90 ±0.023° E, H = 14 21 06.4 ±0.74 s, h = 44 ±6.5 km, Mag = 6.0 (ISC). Dc = 96.37°, Az = 46.66°.
28	eiP	13	32	42	Near East Coast of Honshu, Japan 35.79 ±0.019° N 140.16 ±0.023° E, H = 13 20 29.2 ±0.19 s, h = 71 ±1.6 km, Mag = 4.9 (ISC). Dc = 82.20°, Az = 43.46°.
28	eiSg	15	29	54	Small local shock.
28	eiP	22	31	21	New Hebrides 19.94 ±0.049° S 168.85 ±0.078° E, H = 22 11 50 ±2.7 s, h = 30 ±20 km, Mag = 5.3 (ISC). Dc = 143.76°, Az = 48.90°.
28	eiPKP	23	43	57	Loyalty Islands Region 22.48 ±0.066° S 170.88 ±0.076° E, H = 23 24 15.3 ±0.50 s, h = 26 km, Mag = 4.9 (ISC). Dc = 146.91°, Az = 48.48°.
29	eiP	00	57	24	Off East Coast of Kamchatka
	eipP		57	36	51.16 ±0.053° N 159.16 ±0.082° E, H = 00 45 41.3 ±0.80 s, h = 40 ±7.4 km, Mag = 4.8 (ISC). M (MOS) = 5.0, Dc = 75.84°, Az = 23.54°.
29	eiPn	02	41	46	Greece
	eiSn		43	42	38.42 ±0.024° N 21.10 ±0.026° E, H = 02 39 24.8 ±0.86 s, h = 1 ±5.5 km, Mag = 5.8 (ISC). M (MOS) = 5.75, MLH(BRA)=5.3, Dc = 9.71°, Az = 161.19°. LmH: 4 s 8.6 μm.
	eiSg		44	45	
	ei		45	00	
	Lm		47.2		
29	eiP	09	07	29	West Pakistan 27.60 ±0.032° N 65.68 ±0.031° E, H = 08 59 38.3 ±0.23 s, h = 47 ±0.95 km, Mag = 4.9 (ISC). M (MOS) = 5.0, Dc = 42.66°, Az = 100.86°.

Date	Phase	h	m	s	Remarks
29	eiPKIKP	10	58	02	Loyàlty Islands 20.09 ±0.084° S 168.63 ±0.094°, H = 10 38 30.1 ±0.58 s, h = 18 km (ISC). Dc = 143.78°, Az = 49.32°.
29	eiP	14	44	43	Hokkaido, Japan Region 41.73 ±0.020° N 144.19 ±0.035° E, H = 14 32 40.6 ±0.34 s, h = 35 ±3.0 km, Mag = 5.2 (ISC). M (MOS) = 5.5, Dc = 79.02°, Az = 37.46°.
30	eiP	17	44	28	Eastern Caucasus 42.79 ±0.075° N 45.92 ±0.072° E, H = 17 39 50 ±1.1 s, h = 39 ±14 km, Mag = 4.6 (ISC). M (MOS) ≐ 5.0, Dc = 20.84°, Az = 94.20°.

Date	Phase	h	m	s	Remarks
1	eiP eipP	07	12 13	43 16	Hokkaido, Japan 43.14 ±0.017° N 143.46 ±0.028° E, H = 07 01 00.6 ±0.16 s, h = 132 ±1.8 km, Mag = 5.2 (ISC). Dc = 77.55°, Az = 37.14°.
3	eiP	11	48	49	Mona Passage 19.13 ±0.025° N 67.87 ±0.021° W, H = 11 37 22.3 ±0.49 s, h = 39 ±5.3 km, Mag = 5.3 (ISC). Dc = 72.69°, Az = 279.44°.
3	iPg	13	01	58	Explosion CSSR (Slovakia).
3	eiP	16	35	58	Mona Passage 19.17 ±0.023° N 67.92 ±0.020° W, H = 16 24 31.3 ±0.99 s, h = 22 ±7.5 km, Mag = 5.7 (ISC). M (MOS) ≐ 6.0, Dc = 72.70°, Az = 279.50°.
3	eiP	21	52	44	Carlsberg Ridge 6.55 ±0.047° N 60.36 ±0.049° E, H = 21 43 10.8 ±0.32 s, h = 33 km, Mag = 4.8 (ISC). Dc = 55.35°, Az = 124.14°.
5	+iPKIKP eiPKP2 SKP2	13	04 04 08	48 57 20	Tonga 15.19 ±0.057° S 175.11 ±0.046° W, H = 12 45 13.9 ±0.22 s, h = 31 ±4.2 km, Mag = 5.4 (ISC). M (MOS) = 6.25, Dc = 145.60°, Az = 21.20°.
7	eiPKP	17	57	'19	Tonga 15.45 ±0.046° S 173.19 ±0.043° W, H = 17 37 39.5 ±0.17 s, h = 33 km, Mag = 4.9 (ISC). Dc = 146.29°, Az = 18.09°.
8	e	14	24	55	Yugoslavia 43.75° N 19.75° E, H = 14 23 10 (BCIS), Dc = 4.79°, Az = 156.38°.

Date	Phase	h	m	s	Remarks
9	ePn	15	14	44	Greece-Albania Border Region 39.18 ±0.085° N 20.54 ±0.10° E, H = 15 12 28 ±1.1 s, h = 35 ±13 km, Mag = 4.9 (ISC). Dc = 9.32°, Az = 163.29°.
11–12					The apparatus was not operational.
12	+iP	13	01	45	Hokkaido, Japan
	eiPP		04	40	41.68 ±0.016° N 144.26 ±0.027° E, H = 12 49 41.0 ±0.60 s, h = 16 ±4.4 km, Mag = 5.9 (ISC). M (MOS) = 6.25, Dc = 79.09°, Az = 37.45°.
12	eiPKIKP	19	04	25	New Hebrides
	eiPP		07	20	15.67 ±0.036° S 167.24 ±0.043° E,
	eiPKS		08	01	H = 18 45 00 ±2.0 s, h = 27 ±14 km, Mag = 5.6 (ISC). Dc = 139.35°, Az = 47.41°.
13	eiP	03	02	57	Leeward Islands 17.05 ±0.023° N 61.94 ±0.020° W, H = 02 51 53.4 ± 0.027 s, h = 92 ±2.9 km, Mag = 5.4 (ISC). Dc = 70.23°, Az = 273.66°.
15	eP	00	20	13	Andreanof Islands, Aleutian Islands 51.32 ±0.042° N 179.87 ±0.039° W, H = 00 08 07.8 ±0.95 s, h = 49 ±8.2 km, Mag = 5.1 (ISC). Dc = 79.83°, Az = 10.73°.
15	eiPg	11	00	08	Explosion CSSR (Slovakia).
15	eiP	16	31	14	Andreanof Islands, Aleutian Islands 51.19 ±0.037° N 176.48 ±0.031° W, H = 16 19 08.0 ±0.71 s, h = 53 ±6.0 km, Mag = 5.1 (ISC). M (MOS) = 4.25, Dc = 80.34°, Az = 8.62°.
16	ePKP	06	18	18	West of Tonga 19.9 ±0.12° S 176.24 ±0.086° W, H = 05 58 31.7 ±0.45 s, h = 51 km, Mag = 4.8 (ISC). Dc = 149.80°, Az = 25.58°.

Date	Phase	h	m	s	Remarks
16	eiP	23	28	14	Fox Islands, Aleutian Islands 52.58 ±0.044° N 169.53 ±0.035° W, H = 23 16 11.4 ±0.86 s, h = 53 ±8.0 km, Mag = 5.0 (ISC). Dc = 79.47°, Az = 4.11°.
18	e	15	01	18	Czechoslovakia (explosion of 12.6 tons) 50.62° N 14.35° E, H = 14 59 (PRU). Dc = 3.04°, Az = 324.78°.
18	eiP	18	13	21	Greenland Sea 73.21 ±0.065° N 6.5 ±0.22° E, H = 18 07 53.8 ±0.36 s, h = 33 km, Mag = 4.8 (ISC). Dc = 25.58°, Az = 352.88°.
18	eiP	18	54	13	Greenland Sea
	eipP		54	20	73.12 ±0.047° N 6.0 ±0.19° E, H = 18 48 45.4 ±0.32 s, h = 31 ±2.7 km, Mag = 4.7 (ISC). M (MOS) = 5.0, Dc = 25.53°, Az = 252.50°.
18	eiP	19	53	03	North Atlantic Ridge 24.08 ±0.060° N 46.24 ±0.045° W, H = 19 43 39 ±3.9 s, h = 59 ±36 km, Mag = 4.7 (ISC). Dc = 54.84°, Az = 267.69°.
19	eiP	05	32	06	Near East Coast of Honshu, Japan 37.55 ±0.015° N 141.48 ±0.029° E, H = 05 19 55.3 ±0.21 s, h = 59 ±1.9 km, Mag = 5.3 (ISC). M (MOS) = 4.5, Dc = 81.35°, Az = 41.57°.
19	eiP	07	15	53	Crete 35.03 ±0.032° N 23.46 ±0.027° E, H = 07 12 38 ±1.0 s, h = 17 ±7.4 km, Mag = 5.2 (ISC). M (MOS) = 4.75, Dc = 13.95°, Dc = 157.87°.
19	e	12	05	44	Near Earthquake

Date	Phase	h	m	s	Remarks
19	eiP	17	50	23	North Atlantic Ridge 24.04 ±0.082° N 46.44 ±0.054° W, H = 17 41 06 ±4.1 s, h = 112 ±40 km, Mag = 4.8 (ISC). Dc = 55.00°, Az = 267.80°.
21	eiP	11	25	14	Michoacan, Mexico 18.63 ±0.052° N 102.51 ±0.044° W, H = 11 11 59.5 ±0.65 s, h = 64 ±5.2 km, Mag = 4.8 (ISC). Dc = 94.46°, Az = 304.22°.
21	+iP	12	31	22	Kurile Islands 46.64 ±0.024° N 152.55 ±0.029° E, H = 12 19 30.3 ±0.35 s, h = 66 ±3.1 km, Mag = 5.4 (ISC). Dc = 77.90°, Az = 29.63°.
22	–iP eipP	06	40 42	46 25	Sea of Okhotsk 48.00 ±0.015° N 146.79 ±0.024° E, H = 06 29 52.4 ±0.15 s, h = 443 ±1.9 km, Mag = 5.5 (ISC). Dc = 74.74°, Az = 32.40°.
22	eiP	09	04	13	Near Islands, Aleutian Islands 52.15 ±0.050° N 172.64 ±0.036° E, H = 08 52 13 ±2.4 s, h = 8 ±14 km, Mag = 5.0 (ISC). Dc = 77.90°, Az = 15.13°.
22	eiP	12	25	34	Mona Passage 19.18 ±0.046° N 67.87 ±0.033° W, H = 12 14 10 ±0.79 s, h = 37 ±8.8 km, Mag = 4.9 (ISC). Dc = 72.66°, Az = 279.47°.
23	eiPKP eipPKP eiPP	02	38 38 41	37 52 28	New Hebrides 14.90 ±0.022° S 166.84 ±0.023° E, H = 02 19 14.3 ±0.47 s, h = 52 ±4.5 km, Mag = 5.5 (ISC). Dc = 138.49°, Az = 47.32°.

Date	Phase	h	m	s	Remarks
26	eiP eiPP	03	30 30	07 58	Greenland Sea 78.21 ±0.097° N 3.3 ±0.51° E, H = 03 23 46.4 ±0.54 s, h = 30 ±0.91 km, Mag = 4.8 (ISC). Dc = 30.61°, Az = 354.50°.
26	iPg	10	00	48	Small local shock.
27	eP	04	22	07	Southern Alaska 60.09 ±0.046° N 146.0 ±0.11° W, H = 04 10 42.5 ±0.37 s, h = 16 km, Mag = 4.7 (ISC). Dc = 71.22°, Az = 351.15°.
27	+iP	20	19	16	Svalbard Region 78.50 ±0.025° N 5.8 ±0.14° E, H = 20 13 01.7 ±0.15 s, h = 31 ±1.1 km, Mag = 5.4 (ISC). mPV (BRA) = 5.8, Dc = 30.74°, Az = 355.59°. PV: 2 s 0.27 μm.
28	eiP	07	45	59	South of Panama 6.72 ±0.039° N 82.75 ±0.036° W, H = 07 32 53.8 ±0.25 s, h = 31 ±2.4 km, Mag = 5.4 (ISC). Dc = 91.58°, Az = 281.78°.
29	eiPKP	22	36	38	New Hebrides 14.67 ±0.024° S 167.41 ±0.027° E, H = 22 17 31.2 ±0.41 s, h = 174 ±4.0 km, Mag = 5.2 (ISC). Dc = 138.57°, Az = 46.43°.
30	eiP	13	06	08	Greenland Sea 73.31 ±0.068° N 6.7 ±0.26° E, H = 13 00 39.8 ±0.32 s, h = 30 ±2.7 km, Mag = 4.7 (ISC). Dc = 25.65°, Az = 353.08°.

Date	Phase	h	m	s	Remarks
1	eiP	04	40	40	Southern Alaska 60.17 ±0.028° N 146.08 ±0.064° W, H = 04 29 20 ±1.7 s, h = 2 ±10 km, Mag = 4.8 (ISC). Dc = 71.15°, Az = 351.21°.
1	eiPKIKP	05	16	08	New Hebrides 14.03 ±0.019° S 167.04 ±0.020° E, H = 04 56 58.9 ±0.39 s, h = 136 ±3.8 km, Mag = 6.0 (ISC). Dc = 137.83°, Az = 46.42°.
3	eiPKP	14	32	20	South of Fiji 24.80 ±0.034° S 179.97 ±0.038° E, H = 14 13 25.2 ±0.45 s, h = 493 ±5.8 km, Mag = 5.1 (ISC). Dc = 153.04°, Az = 36.19°.
4	eiPKP	18	21	48	Samoa Region 15.50 ±0.073° S 172.90 ±0.072° W, H = 18 02 10.1 ±0.30 s, h = 33 km, Mag = 4.7 (ISC). Dc = 146.39°, Az = 17.62°.
6	e	02	25	10	Yugoslavia 43.07° N 18.53° E, H = 02 24 02.4 s (BEO). Dc = 5.20°, Az = 168.39°.
6	eiPg	15	18	23	Small local shock.
7	+iP	17	29	49	Kurile Islands Region 44.55 ±0.022° N 151.68 ±0.024° E, H = 17 17 45.2 ±0.11 s, h = 40 ±1.6 km, Mag = 5.6 (ISC). Dc = 79.44°, Az = 31.21°.
8	eiP	00	05	56	Mona Passage 18.34 ±0.024° N 68.52 ±0.019° W, H = 23 54 36.5 ±0.30 s, h = 147 ±3.5 km, Mag = 5.2 (ISC). Dc = 73.69°, Az = 279.33°.

Date	Phase	h	m	s	Remarks
8	+iPn	11	32	50.5	Yugoslavia 42.17 ±0.026° N 18.87 ±0.029° E, H = 11 31 20.6 ±0.40 s, h = 47 ±4.2 km, Mag = 5.1 (ISC). Dc = 6.13°, Az = 167.71°.
8	eiPg	14	46	04	Small local shock.
8	ePn	18	42	08	Yugoslavia 43.6 ±0.22° N 17.2 ±0.15° E, H = 18 40 57 ±2.5 s, h = 0 km (ISC). Dc = 4.57°, Az = 179.13°.
9	–iP	16	56	01	Near Islands, Aleutian Islands 51.69 ±0.037° N 174.66 ±0.033° E, H = 16 43 59.8 ±0.18 s, h = 31 ±1.2 km, Mag = 5.2 (ISC). Dc = 78.68°, Az = 14.03°.
10	iPg	13	01	05	Slovakia (explosion).
10	eiP	13	19	35	Near Coast of Chiapas, Mexico 14.36 ±0.031° N 92.03 ±0.026° W, H = 13 06 31.5 ±0.50 s, h = 53 ±4.6 km, Mag = 5.6 (ISC). M (MOS) = 6.25, Dc = 91.70°, Az = 293.65°.
10	eiP	17	11	48	Turkey 41.09 ±0.028° N 33.56 ±0.029° E, H = 17 08 33 ±1.5 s, h = 13 ±9.5 km, Mag = 4.8 (ISC). M (MOS) = 5.0, Dc = 13.67°, Az = 115.08°.
12	eP	16	56	38	North Atlantic Ocean 6° N 41° W, H = 16 45 57, Mag = 4.3 (LAO). Dc = 64.60°, Az = 249.19°.
13	eSg	09	09	34	Yugoslavia 46.0° N 16.0° E, H = 09 08 17 (BCIS). Dc = 2.30°, Az = 199.60°.

Date	Phase	h	m	s	Remarks
13	eiP	12	28	33	Afghanistan-USSR Border Region 37.33 ±0.021° N 71.81 ±0.029° E, H = 12 21 01.7 ±0.25 s, h = 118.0 ±2.7 km, Dc = 40.81°, Az = 84.55°.
14	eiPn	14	51	40	Romania 45.72 ±0.025° N 26.39 ±0.030° E, H = 14 49 59.7 ±0.23 s, h = 151 ±7 km, Mag = 4.8 (ISC). Dc = 6.81°, Az = 107.63°.
14	eiPKIKP	21	26	31	Near North Coast of New Guinea 4.89 ±0.033° S 144.06 ±0.038° E, H = 21 07 52.5 ±0.92 s, h = 70 ±8.7 km, Mag= 5.7 (ISC). M (MOS) = 6.25, Dc = 117.64°, Az = 64.00°.
16	ePb	05	04	19	Czechoslovakia 50.2° N 14.1° E, H = 05 03 27 (BCIS). Dc = 2.83°, Az = 317.01°.
16	+iP	21	01	23	Nepal-India Border Region 29.62 ±0.033° N 80.79 ±0.033° E, H = 20 52 16.3 ±0.18 s, h = 19 ±0.91 km, Mag = 5.7 (ISC). M (MOS) = 6.0, mPV (BRA) = 5.9, Dc = 51.42°, Az = 86.89°. PV: 1.5 s 0.24 μm.
17	eiP	06	04	53	Jan Mayen Island Region 70.85 ±0.034° N 14.08 ±0.083° W, H = 05 59 07.7 ±0.19 s, h = 9 km, Mag = 5.0 (ISC). Dc = 27.10°, Az = 337.96°.
20	–iP	12	39	51	Santiago del Estero, Prov., Arg. 26.06 ±0.024° S 63.10 ±0.032° W, H = 12 26 53.6 ±0.29 s, h = 571 ±3.8 km, Mag = 5.8 (ISC). Dc = 76.82°, Az = 201.53°.

Date	Phase	h	m	s	Remarks
20	–iP	15	42	39	Southern Nevada 37.32 ±0.017° N 116.36 ±0.018° W, H = 15 30 01.9 ±0.54 s, h = 21 ±4 km, Mag = 6.3 (ISC). mPV (BRA) = 6.6, Dc = 85.34°, Az = 324.51°. PV: 1.5 s 0.65 μm.
20	eiP	18	52	34	Luzon, Philippine Islands 14.57 ±0.071° N 122.17 ±0.089° E, H = 18 39 43.7 ±0.41 s, h = 32 ±2.8 km, Mag = 5.3 (ISC). Dc = 89.01°, Az = 69.25°.
21–22					The apparatus was not operational.
22	eiPg	10	53	47	Small local shock.
23	eiPKIKP	16	09	11	Eastern New Guinea Region 7.11 ±0.020° S 148.31 ±0.023° E, H = 15 50 21.3 ±0.54 s, h = 46 ±5.0 km, Mag = 6.1 (ISC). M (MOS) = 6.5–6.75, Dc = 121.94°, Az = 61.62°.
24	eiSg	21	07	28	Yugoslavia 46.1° N 14.8° E, H = 21 06 00 (BCIS). Dc = 2.60°, Az = 218.10°.
24	eiP	22	40	16	Southern Alaska 59.84 ±0.025° N 153.42 ±0.042° W, H = 22 28 59.3 ±0.64 s, h = 106 ±6.0 km, Mag = 5.1 (ISC). Dc = 72.07°, Az = 354.99°.
25	eP	05	51	07	Arabian Sea 14.3 ±0.10° N 53.46 ±0.081° E, H = 05 42 50 ±4.1 s, h = 63 ±40 km, Mag = 4.9 (ISC). Dc = 45.17°, Az = 125.88°.
25	eP	23	15	25	Rat Islands, Aleutian Islands 51.86 ±0.046° N 176.13 ±0.036° E, H = 23 03 23 ±1.0 s, h = 41 ±9.2 km, Mag = 4.8 (ISC). Dc = 78.75°, Az = 13.08°.

Date	Phase	h	m	s	Remarks
26	+iP	04	25	29	Turkey 38.85 ±0.050° N 40.90 ±0.036° E, H = 04 21 01 ±1.5 s, h = 28 ±12 km, Mag = 4.7 (ISC). M (MOS) = 4.5, Dc = 19.54°, Az = 109.66°.
27	eiP	01	34	30	Near East Coast of Honshu, Japan 37.19 ±0.016° N 141.08 ±0.027° E, H = 01 22 17.7 ±0.20 s, h = 59 ±1.9 km, Mag = 5.5 (ISC). Dc = 81.47°, Az = 42.04°.
27	eiPKP	21	46	00	Tonga 21.40 ±0.10° S 175.65 ±0.073° W, H = 21 26 09.0 ±0.48 s, h = 33 km, Mag = 5.1 (ISC). Dc = 151.37°, Az = 25.45°.
28	eiP	08	32	22	Near Coast of Northern Chile 25.51 ±0.031° S 70.74 ±0.052° W, H = 08 18 05 ±1.4 s, h = 23 ±9.8 km, Mag = 6.6 (ISC). M (MOS) = 7.75–8.0, MLH (BRA) = 8.0, MLV (BRA) = 7.7, mPV (BRA) = 7.5, Dc = 101.18°, Az = 250.94°. LmH: 20 s 400.0 μm, LmV: 20 s 195.0 μm, PPV: 4 s 4.7 μm.
30	eiPKP	01	18	54	Fiji 18.06 ±0.045° S 179.16 ±0.043° E, H = 01 00 24.4 ±0.36 s, h = 650 ±5.4 km, Mag = 5.1 (ISC). Dc = 146.59°, Az = 32.17°.
31	eiPKP	18	42	22	Santa Cruz Islands 11.89 ±0.026° S 166.38 ±0.027° E, H = 18 23 8.8 ±0.65 s, h = 73 ±6.1 km, Mag = 5.5 (ISC). M (MOS) = 8.0, Dc = 135.67°, Az = 45.35°.
31	eiPKP	22	34	33	Santa Cruz Islands 12.1 ±0.11° S 165.7 ±0.13° E, H = 22 15 17.1 ±0.60 s, h = 36 ±2.9 km, Mag = 5.2 (ISC). M (MOS) = 7.25, Dc = 135.54°, Az = 45.20°.

Earthquake Observations at the Station Šrobárová

Date	Phase	h	m	s	Remarks
2	eiPKIKP	15	06	50	Samoa Region 16.74 ±0.082° S 172.1 ±0.10° W, H = 14 47 04 ±3.3 s, h = 16 ±23 km, Mag = 4.7 (ISC). Dc = 147.85°, Az = 18.99°.
2	eiP	23	14	53	Southern Greece Dc = 10.74°, Az = 158.84°,
3	eiPKP	13	52	21.5	West of Tonga
	eiPKP2		52	33	Dc = 149.64°, Az = 32.10°.
3	eiPKIKP	16	03	47	New Hebrides Dc = 142.79°, Az = 49.25°.
5–7					The apparatus was not operational.
8	eiP	22	51	29	Near West Coast of Honshu, Japan Dc = 80.01°, Az = 44.48°.
10	eiP	01	31	49	Mindoro, Philippine Islands 13.81 ±0.028° N 120.72 ±0.034°E, H = 01 19 11.9 ±0.46 s, h = 133 ±4 km, Mag = 5.3 (ISC). Dc = 88.02°, Az = 71.69°.
11	eiP	14	28	52	Near South Coast of Honshu, Japan Dc = 82.11°, Az = 47.43°.
12	e	10	17	03	Near earthquake?
13	+iP	10	53	07.5	Near Islands, Aleutian Islands Dc = 77.16°, Az = 15.94°.
16	eiP	07	19	28	Nicobar Islands Region 9.00 ±0.85° N 93.93 ±0.082° E, H = 07 07 56.2 ±0.44 s, h = 29 ±1.0 km, Mag = 5.0 (ISC). Dc = 73.73°, Az = 94.57°.
16	+iP	09	23	44	Near Islands, Aleutian Islands Dc = 77.24°, Az = 16.00°.
16	Lm	12	38.5		Belgium Dc = 9.65°.

Date	Phase	h	m	s	Remarks
16	eiP	18	55	44	Eastern Mediterranean Sea Dc = 15.74°, Az = 155.28°.
17	eiPg	13	09	03	Local shock
	eiSg		09	08	D ≐ 0.1°.
	Lg		09	24	
17	eiPKIKP	18	08	48	West of Tonga
	eiPKP2		08	58	Dc = 149.95°, Az = 32.60°.
18	e	09	18	39	
18	e	15	37	45	
18	eP	20	21	55	Romania 45.85 ±0.043° N 26.77 ±0.069° E, H = 20 20 27 ±0.46 s, h = 93 ±6.3 km, Mag = 4.7 (ISC). Dc = 6.13°, Az = 105.58°.
20	eP	00	41	22	Aegean Sea 39.20 ±0.049° N 24.44 ±0.067° E, H = 00 39 00.6 ±0.44 s, h = 12 km, Mag = 4.4 (ISC). Dc = 9.69°, Az = 150.48°.
20	eiP	01	56	53	Near West Coast of Honshu, Japan 37.94 ±0.021° N 138.11 ±0.025° E, H = 01 44 50.1 ±0.26 s, h = 37 ±3.0 km, Mag = 5.3 (ISC). Dc = 79.20°, Az = 43.41°.
20	eP	08	57	10	Africa Dc = 45.95°, Az = 150.99°.
20	eiP	14	58	00	Near Islands, Aleutian Islands Dc = 77.07°, Az = 16.11°.
20	eiPKIKP	15	21	33.5	Samoa Region Dc = 146.29°, Az = 19.76°.
22	eiP	00	26	51	Turkey
	Lm		31.5		Dc = 13.26°, Az = 135.74°.
22	eiPKIKP	11	19	43	West of Tonga Dc = 147.39°, Az = 30.49°.

Date	Phase	h	m	s	Remarks
22	eP	14	38	55	Kodiak Island Region Dc = 76.32°, Az = 355.44°.
22	eiPKP	19	56	24	Tonga 21.03 ±0.081° S 174.13 ±0.069° W, H = 19 36 31.9 ±0.41 s, h = 33 km, Mag = 4.9 (ISC). Dc = 151.45°, Az = 24.91°.
23	ePb	01	32	50	Northern Italy Dc = 4.75°, Az = 249.94°.
23	eSg	14	50	08	Poland Dc = 2.48°, Az = 9.95°.
24	eiP	02	23	01	Afghanistan 32.67 ±0.033° N 67.49 ±0.035° E, H = 02 15 29.4 ±0.56 s, h = 43 ±5.7 km, Mag = 4.9 (ISC). Dc = 39.78°, Az = 94.05°.
24	eiP	07	31	08	West Pakistan Dc = 42.91°, Az = 95.60°.
25	epP	18	19	32	Borneo 1.92 ±0.074° N 118.06 ±0.083° E, H = 18 06 00 ±2.1 s, h = 74 ±20 km, Mag = 5.1 (ISC). Dc = 95.13°, Az = 81.49°.
26	e	13	32	38	Greece 38.94 ±0.042° N 21.47 ±0.055° E, H = 13 30 28 ±0.53 s, h = 46 ±6.8 km, Mag = 4.6 (ISC). Dc = 9.16°, Az = 164.35°.
27	e	12	51	07	
27	eiP	19	51	12.5	Rat Islands, Aleutian Islands 51.31 ±0.042° N 178.27 ±0.033° E, H = 19 39 05.9 ±0.80 s, h = 38 ±6.9 km, Mag = 5.3 (ISC). Dc = 79.77°, Az = 12.63°.
28–31					The apparatus was not operational.

Date	Phase	h	m	s	Remarks
1	eiP	07	13	06	Western Persia 34.92 ±0.060° N 46.11 ±0.058° E, H = 07 07 54.2 ±0.89 s, h = 86 ±10 km, Mag = 4.6 (ISC). Dc = 24.37°, Az = 111.75°.
2	eiSg	02	27	25	Northern Italy Dc = 4.12°, Az = 250.54°.
2	eiP	09	28	06	West Pakistan 33.89 ±0.036° N 73.20 ±0.044° E, H = 09 20 9.3 ±0.61 s, h = 37 ±6.5 km, Mag = 5.0 (ISC). Dc = 42.90°, Az = 88.26°.
2	e	13	29	49	
2	e	15	38	14	
2	eiPKP	17	30	00	West of Tonga 21.56 ±0.049° S 176.77 ±0.064° W, H = 17 10 38.5 ±0.96 s, h = 271 ±9.3 km, Mag = 4.4 (ISC). Dc = 151.13°, Az = 30.11°.
3	eiPKP	02	30	52	West of Tonga 20.97 ±0.065° S 178.28 ±0.053° W, H = 02 11 57.5 ±0.49 s, h = 487 ±4.3 km, Mag = 4.3 (ISC). Dc = 150.06°, Az = 32.32°.
3–4					Station out of operation.
4	eP	08	41	19	Crete Dc = 14.08°, Az = 160.52°.
4	ePKIKP	10	58	18	New Hebrides Dc = 139.53°, Az = 48.61°.
4	e	12	56	55	Near earthquake?
4	ePKIKP	15	56	14	Tonga Dc = 151.87°, Az = 25.21°.
5	eiP	02	03	58	Greece Dc = 9.06°, Az = 162.82°.

Date	Phase	h	m	s	Remarks
5	eiP	03	00	18	Greece Dc = 9.08°, Az = 161.99°.
5	e	11	43	58	Near erthquake?
5	e	14	28	17	Near earthquake?
5	iP	15	23	29.5	Yunan Province China Dc = 67.76°, Az = 75.15°.
5	iP	16	27	38	Kurile Islands Dc = 75.73°, Az = 26.95°.
6–7					Station out of operation.
7	iP	09	30	29	Yugoslavia
	eiS		31	10	D = 3.3°, Dc = 2.98°, Az = 199.68°.
7	iP	23	14	36	West Pakistan Dc = 42.88°, Az = 95.01°.
8	eiPKP	10	20	58	Kermadec-Tonga 21.22 ±0.035° S 178.49 ±0.034° W, H = 10 02 9.1 ±0.34 s, h = 524 ±4.6 km, Mag = 4.8 (ISC). Dc = 150.21°, Az = 32.88°.
8	iP	13	19	41	Dodecanese Islands-Crimea 36.23 ±0.042° N 28.11 ±0.038° E, H = 13 16 22.2 ±0.57 s, h = 79 ±6.4 km, Mag = 4.6 (ISC). Dc = 13.66°, Az = 144.37°.
8	eiP	20	10	04	Greece-Bulgaria Border Region
	eiSg		12	38	Dc = 8.24°, Az = 142.32°.
9	epP	08	26	25	Off West Coast of Northern Sumatra Dc = 79.29°, Az = 98.81°.
9	iPg	13	27	36	Small local shock.
	eiSg		27	41	

Date	Phase	h	m	s	Remarks
10	eP	13	24	02	Greece 38.95 ±0.071° N 21.7 ±0.11° E, H = 13 21 45.9 ±0.97 s, h = 39 ±11°, Mag = 4.4 (ISC). Dc = 9.19°, Az = 163.25°.
10	eiP	14	34	43	Marianas Region Dc = 97.37°, Az = 48.07°.
10	eiPKP	15	17	57	Kermadec-Tonga 19.3 ±0.11° S 172.88 ±0.090° W, H = 14 58 3.6 ±0.54 s, h = 12 km, Mag = 4.9 (ISC). Dc = 150.13°, Az = 21.60°.
10	eiP	20	25	09	Kurile Islands Dc = 76.80°, Az = 31.09°.
12	ePKP1	11	58	53	Tonga Dc = 148.74°, Az = 24.40°.
12	eP	13	38	33	Greece Dc = 9.25°, Az = 164.69°.
12	–eiP	16	41	32	Afghanistan-Border Region 36.67 ±0.026° N 71.48 ±0.026° E, H = 16 34 10.8 ±0.25 s, h = 175 ±2.2 km, Mag = 4.8 (ISC). Dc = 40.17°, Az = 86.02°.
13	eiP	10	55	39	Yunan Province, China Dc = 67.82°, Az = 75.17°.
13	eP	19	17	46	West Pakistan Dc = 42.93°, Az = 95.52°.
14	eiP	18	01	13	Eastern Mediterranean Sea Dc = 14.43°, Az = 149.72°.
14	eP	20	19	10	Greece Dc = 9.27°, Az = 164.76°.

Date	Phase	h	m	s	Remarks
15	ePKP	10	16	31	Tonga 22.97 ±0.075° S 175.71 ±0.086° W, H = 09 56 29 ±3.3 s, h = 21 ±24 km, Mag = 4.8 (ISC). Dc = 152.79°, Az = 29.74°.
16	eiPKIKP eiPP	03	37 40	51 41	New Hebrides 17.66 ±0.020° S 167.96 ±0.21° E, H = 03 18 27.9 ±0.42 s, h = 35 ±3.8 km, Mag = 6.1 (ISC). Dc = 141.01°, Az = 49.98°.
16	e	23	57	09	Kermadec 18.21 ± 0.062° S 173.56 ±0.055° W, H = 23 37 6 ±1.2 s, h = 37 ±12 km, Mag = 5.1 (ISC). Dc = 148.92°, Az = 22.26°.
17	eiP eiPP	12	01 05	28 27	Mid-Indian Rise 32.20 ±0.026° S 78.93 ±0.029° E, H = 11 47 57.3 ±0.12 s, h = 7 km, Mag = 6.0 (ISC). Dc = 96.39°, Az = 131.98°.
17	iSg	17	34	46	Small local shock.
18	eiP	19	14	18	Hokkaido, Japan Region 44.29 ±0.020° N 143.20 ±0.027° E, H = 19 02 51.3 ±0.14 s, h = 221 ±1.8 km, Mag = 5.1 (ISC). Dc = 76.28°, Az = 37.33°.
19	eiP	12	58	19	Hindu Kush Region 35.20 ±0.034° N 70.89 ±0.041° E, H = 12 50 42.6 ±0.62 s, h = 62 ±5.9 km, Mag = 4.9 (ISC). Dc = 40.59°, Az = 88.31°.
20	eiP	18	27	43	Kurile Islands 48.09 ±0.039° N 155.12 ±0.047° E, H = 18 15 51.2 ±0.50 s, h = 39 ±4.3 km, Mag = 5.0 (ISC). Dc = 77.37°, Az = 28.05°.

Date	Phase	h	m	s	Remarks
21	eiPn	20	32	09	Yugoslavia
	eiPb		32	20	42.3 ±0.15° N 20.8 ±0.24° E,
	eiSn		33	18	H = 20 30 40 ±1.5 s, h = 0 km,
					Dc = 5.79°, Az = 161.38°.
22	ePKP1	18	37	26	New Britain Region
					5.60 ±0.028° S 151.40 ±0.035° E,
					H = 18 18 36.5 ±0.61 s, h = 56 ±5.7 km,
					Mag = 5.3 (ISC).
					Dc = 121.99°, Az = 58.99°.
24	eP	00	26	44	India-Tibet
					26.35 ±0.040° N 91.44 ±0.038° E,
					H = 00 16 40.8 ±0.60 s, h = 47 ±6.4 km,
					Mag = 4.7 (ISC).
					Dc = 59.89°, Az = 83.02°.
24	e	12	56	06	Near earthquake?
24	eiP	21	31	50	Central Mid-Atlantic Ridge
					1.40 ±0.084° N 29.15 ±0.063° W,
					H = 21 21 30.8 ±0.38 s, h = 33 km,
					Mag = 4.5 (ISC).
					Dc = 61.74°, Az = 236.75°.
25	eiPKIKP	23	10	25	Samoa Region
					Dc = 146.22°, Az = 19.77°.
26	eiP	00	46	45	Near Islands, Aleutian Islands
					Dc = 77.65°, Az = 15.14°.
26	eiPKP	11	41	27	Tonga
					Dc = 146.32°, Az = 20.19°.
27	eipP	16	42	27	Aleutian Rat Islands
					52.19 ±0.041° N 175.06 ±0.035° E,
					H = 16 30 18 ±1.1 s, h = 48 ±9.8 km,
					Mag = 5.0 (ISC).
					Dc = 78.41°, Az = 14.37°.
27	eiP	20	58	15	Mexico
	eipP		58	29.5	Dc = 95.27°, Az = 305.25°.
28	eiP	02	13	34	Eastern Sea of Japan
	eipP		14	24.0	Dc = 75.28°, Az = 39.83°.

Date	Phase	h	m	s	Remarks
28	eiP	13	48	00	Ryukyu Islands
	eipP		48	19	Dc = 82.05°, Az = 54.94°.
28	eiPKIKP	18	12	48	Loyalty Islands Region
					21.67 ±0.061° S 170.47 ±0.050° E,
					H = 17 53 20.2 ±0.76 s, h = 105 ±8.6 km,
					Dc = 145.65°, Az = 50.34°.

Date	Phase	h	m	s	Remarks
1	eiP	08	50	20	Slovakia
	eiSg		50	28	Near earthquake
					D = 0.4°.
2	iP	02	41	34	Eastern Caucasus
					Dc = 19.82°, Az = 93.81°.
2	iP	12	03	15	Near Islands, Aleutian Islands
					52.60 ±0.039° N 172.48 ±0.32° E,
					H = 11 51 19.6 ±0.19 s, h = 20 km,
					Mag = 5.1 (ISC).
					Dc = 77.57°, Az = 15.79°.
3	eiP	03	37	18	Kurile Islands
	eipP		37	34	Dc = 76.95°, Az = 28.41°.
4–6					Station out of operation.
6	ei	18	22	04	South of Fiji
					Dc = 153.40°, Az = 32.48°.
7	eiPP	01	20	49	Turkey
					Dc = 18.90°, Az = 108.53°.
7	e	17	16	58	Eastern Caucasus
					Dc = 19.92°, Az = 93.84°.
					Masked by microseisms.
7	eipP	21	40	29	Northern China
					Dc = 67.41°, Az = 59.02°.
8	eiPKP2	00	38	18	Tonga
					Dc = 149.79°, Az = 21.98°.
8	eiPKIKP	01	33	05	New Hebrides
	eiPP		35	58	13.76 ±0.052° S 166.36 ±0.051° E,
					H = 01 13 43 ±1.2 s, h = 35 ±11 km,
					Mag = 5.5 (ISC).
					Dc = 136.91°, Az = 48.83°.
8	eiPP	21	04	06	Chile-Bolivia Border Region
					Dc = 102.75°, Az = 254.38°.
9–31					Station out of operation.

Date	Phase	h	m	s	Remarks
1–27					Station out of operation.
28	eiPKIKP	17	16	11	Tonga
					Dc = 149.87°, Az = 22.57°.
28	eiPKP	17	33	21	Tonga
					Dc = 150.04°, Az = 22.51°.
29	eiP	01	58	45	South of Alaska
					Dc = 78.56°, Az = 357.46°.
29	eiP	07	12	11	Near earthquake?
29	eiP	17	12	04	Near earthquake?
30	eiP	13	48	32	Hindu Kush and Pamir
					41.10 ±0.031° N 71.93 ±0.035° E,
					H = 13 41 12.7 ±0.41 s, h = 39 ±4.9 km,
					Mag = 5.0 (ISC).
					Dc = 38.19°, Az = 79.73°.

Date	Phase	h	m	s	Remarks
1	eiP	16	36	16	Peru-Brazil Border Region
	eiPP		40	08	Dc = 97.81°, Az = 266.28°.
1	eiP	22	32	54	North Atlantic Ridge
					Dc = 55.17°, Az = 267.97°.
2	iPKP	11	12	13	West of Tonga
					18.10 ±0.33° S 178.28 ±0.32° W,
					H = 10 53 29.2 ±0.32 s, h = 544 ± 12 km,
					Mag = 4.6 (ISC).
					Dc = 147.40°, Az = 30.28°.
2	eiP	23	16	57	Turkey
	eiPP		17	12	Dc = 20.12°, Az = 109.97°.
4	eiP	06	39	14	Greece
	eiPP		40	59	Dc = 9.16°, Az = 164.35°.
4	eiP	21	51	56	Turkey
					Dc = 12.20°, Az = 142.21°.
6	eiP	02	47	34.6	Malawi, Africa
					Dc = 64.89°, Az = 162.66°.
6	eiPg	12	00	05	Near earthquake
	eiSg		00	13	D = 0.4°.
6	eiPKP	20	13	27	Tonga
					Dc = 149.99°, Az = 23.02°.
7	eiPn	00	01	46	Yugoslavia
	eiSb		02	45	Dc = 3.86°, Az = 179.93°.
	eiSg		02	51	
7	eiP	13	11	13	Turkey
	eLg		16.5		Dc = 12.22°, Az = 141.93°.
9	iP	00	46	22	Crete
	eiPP		46	39	Dc = 14.69°, Az = 152.57°.
9	eiP	03	54	28	Turkey
					Dc = 14.23°, Az = 134.48°.
9	eiPKIKP	21	50	17	Tonga
					Dc = 145.68°, Az = 22.53°.

Date	Phase	h	m	s	Remarks
10	eiP	21	12	59	Mongolia Border Region
					51.86 ±0.040° N 98.88 ±0.045° E,
					H = 21 04 07 ±2.7 s, h = 11 ±17 km,
					Mag = 5.0 (ISC).
					Dc = 49.61°, Az = 53.44°.
11	eiP	02	01	34	Afghanistan
					34.53 ±0.045° N 69.85 ±0.053° E,
					H = 01 54 0.6 ±0.74 s, h = 59 ±7.8 km,
					Mag = 5.1 (ISC).
					Dc = 40.28°, Az = 89.91°.
11	iP	14	29	29	Kurile Islands Region
					Dc = 77.03°, Az = 27.03°.
11	iP	14	38	32	Kurile Islands Region
					Dc = 77.03°, Az = 26.95°.
11	eiPn	15	09	28	Crete
					34.37 ±0.036° N 26.42 ±0.041° E,
					H = 15 06 2.5 ±0.68 s, h = 39 ±6.4 km,
					Mag = 4.7 (ISC).
					Dc = 14.74°, Az = 152.72°.
11	iP	21	51	28	Kurile Islands Region
					Dc = 77.12°, Az = 27.02°.
12	eiP	20	33	35	Aegean Sea
					Dc = 10.74°, Az = 146.67°.
14	eiP	17	16	19	Near South Coast of Honshu, Japan
					34.13 ±0.031° N 139.00 ±0.031° E,
					H = 17 03 55.7 ±0.26 s, h = 22 ±2.0 km,
					Mag = 5.0 (ISC).
					Dc = 82.69°.
14	eiP	20	39	18	Near Coast of Venezuela
					Dc = 76.60°, Az = 270.66°.
14	eiP	23	03	24	Southern Greece
					Dc = 11.14°, Az = 164.47°.
15	eiP	14	58	14	Andreanof Islands, Aleutian Islands
					Dc = 80.03°, Az = 10.49°.

Date	Phase	h	m	s	Remarks
16	eiPKIKP	03	04	48	Banda Sea Dc = 109.22°, Az = 78.86°.
16	eiP	17	34	25	Crete Dc = 14.65°, Az = 152.43°.
17	eiP	01	11	21	Near East Coast of Honshu, Japan Dc = 82.15°, Az = 43.99°.
18	ei	01	55	12	Republic of the Congo Dc = 48.01°, Az = 164.43°.
19	eiP	07	18	28	Unimak Island Region, Alaska
	eiPcP		18	43	Dc = 78.50°, Az = 1.44°.
19	eiP	14	09	12.2	Southern Nevada (nuclear explosion "Dumount") Dc = 86.16°, Az = 325.06°.
20	eiP	18	15	00	Philippine Islands Region 19.38 ±0.023° N 122.09 ±0.030° E, H = 18 02 35.9 ±0.42 s, h = 53 ±3.6 km, Mag = 5.4 (ISC). Dc = 84.71°, Az = 67.04°.
22	eiP	07	40	14	Turkey Dc = 11.48°, Az = 139.00°.
23	eiPKIKP	06	18	36	Tonga Dc = 146.30°, Az = 23.09°.
24	eiP	09	42	45	Southern Greece Dc = 10.80°, Az = 164.61°.
24	eiP	11	12	00	Southern Greece Dc = 10.78°, Az = 164.03°.
25	eiPn	09	08	50	Albania Dc = 7.57°, Az = 171.22°.
25	eiPKIKP	12	26	40	Loyalty Islands Region Dc = 145.29°, Az = 51.05°.
25	eiPKIKP	13	40	45	Macquarie Islands Region Dc = 155.34°, Az = 115.92°.

Date	Phase	h	m	s	Remarks
26	eiPKIKP	18	49	27	West of Tonga Dc = 150.94°, Az = 29.80°.
27	eiP	19	09	11	North of Svalbard Dc = 35.66°, Az = 354.35°.
28	eiP	00	16	11	Taiwan Region Dc = 81.32°, Az = 63.47°.
29	eiPKIKP	14	03	19	West of Tonga Dc = 150.47°, Az = 33.35°.

Date	Phase	h	m	s	Remarks
1	eiPKP	12	06	51	Tonga Region
	ei		07	02	23.40 ±0.035° S 174.72 ±0.037° W,
	ei		07	17	H = 11 47 33.0 ±0.18 s, h = 22 km,
					Mag = 5.8 (ISC).
					Dc = 153.51°, Az = 27.68°.
2	eiP	03	39	59	Rat Islands, Aleutian Islands
	eipP		40	14	Dc = 79.70°, Az = 14.12°.
2	eiPg	11	31	22	Near earthquake?
2	eiPKP	17	13	45	Tonga
					Dc = 149.56°, Az = 22.06°.
3	eiP	14	12	42	Southern Nevada
					Dc = 86.21°, Az = 324.99°.
4	eiP	06	19	35	Mediterranean Sea
					Dc = 11.35°, Az = 169.08°.
4	e	12	59	25	Near earthquake?
5	iP	00	00	15	Kurile Islands
	eisP		00	29	Dc = 77.99°, Az = 30.37°.
6	eiP	07	53	32	Afghanistan-USSR Border Region
	eipP		54	20	Dc = 40.06°, Az = 86.58°.
6	eiP	21	00	30	Mindanao, Philippine Islands
					Dc = 94.84°, Az = 70.20°.
7	e	09	33	27	Taiwan Region
					Dc = 80.27°, Az = 62.89°.
7	eiP	14	13	24.2	Western Caroline Islands
					Dc = 101.52°, Az = 58.86°.
8	eiP	20	08	14.3	Near Islands, Aleutian Islands, Alaska
					53.17 ±0.28° N 171.03 ±0.029° E,
					H = 19 56 22.9 ±0.14 s, h = 25 ±0.43 km,
					Mag = 5.5 (ISC).
					Dc = 76.75°, Az = 16.47°.

Date	Phase	h	m	s	Remarks
9	eiP	00	23	47	Nicobar Islands, Andaman Islands to Sumatra
					7.71 ±0.054° N 93.93 ±0.052° E,
					H = 00 12 12 ±1.7 s, h = 41 ±15 km,
					Mag = 5.2 (ISC).
					Dc = 74.67°, Az = 95.48°.
9	e	05	07	23	Near earthquake?
9	eiP	15	51	16	Kurile Islands
					Dc = 78.06°, Az = 34.57°.
9	eiP	17	16	25	Near earthquake?
9	eiP	18	01	04	Near earthquake?
9	eiP	18	33	45	Near earthquake?
10	iPn	09	13	22	Romania
					Dc = 5.54°, Az = 116.77°.
11	eiP	10	24	07	Greece
					Dc = 9.26°, Az = 164.36°.
11	eiP	12	07	32	Southern Greece
					Dc = 10.63°, Az = 167.97°.
13	eiP	07	52	58	New Hebrides Region
					Dc = 147.06°, Az = 44.51°.
13	eiPKIKP	18	27	30	Santa Cruz Islands
	eiPP		30	11	Dc = 135.93°, Az = 46.90°.
	ei		30	43	
14	eiP	02	50	33	Turkey
					Dc = 20.31°, Az = 109.35°.
15	eiPKP	01	19	01	Solomon Islands
	eiSKP		22	24	Dc = 131.26°, Az = 52.67°.
15	eiPKIKP	01	52	06	Solomon Islands
					Dc = 131.09°, Az = 52.33°.
16	iPg	19	51	13	Small local shock.
17	eiPg	11	48	57	Small local shock.

Date	Phase	h	m	s	Remarks
17	eiPg	16	52	35	Small local shock
	eiSg		52	39	D ≐ 0.1°.
17	eiPg	17	01	56	Small local shock.
17	eiPg	17	05	32	Small local shock.
17	eiPg	17	10	08	Small local shock.
21	eiP	23	18	16	Kurile Islands Dc = 76.37°, Az = 25.52°.
22	eiPKIKP	20	46	31	Banda Sea
	eiPP		47	03	Dc = 106.30°, Az = 82.66°.
24	e	08	00	04	Near earthquake?
24	eiP	09	00	15	Small local shock.
24	eiP	15	20	58	Small local shock.
24	eiP	22	36	53	Greece Dc = 9.37°, Az = 164.37°.
26	e	09	21	12	Small local shock.
27	eiP	10	50	08	Nepal-India Border Region Dc = 50.65°, Az = 87.44°.
27	eiP	11	08	16	Nepal-India Border Region Dc = 50.63°, Az = 87.30°.
28	eP	17	20	02	Near earthquake?
29	eiPn	00	51	20	Albania Dc = 6.70°, Az = 165.94°.
30	eiPn	19	23	09	Albania Dc = 6.87°, Az = 163.79°.
30	iP	22	27	42	Southern Nevada (nuclear explosion "Halfbeak") Dc = 86.06°, Az = 325.32°.

Date	Phase	h	m	s	Remarks
1	eiP	06	02	42	Taiwan Region Dc = 80.90°, Az = 63.09°.
2	eiPg	12	26	29	Small local shock.
4	eiP	03	07	39	Rat Islands, Aleutian Islands Dc = 79.03°, Az = 13.64°.
7	eiPKP	23	41	50	Tonga Dc = 148.90°, Az = 22.13°.
9–11					Station out of operation.
11	eiPKP	23	05	44	Tonga Dc = 150.07°, Az = 22.43°.
12	eiP	00	08	32	Turkey Dc = 18.89°, Az = 108.37°.
12	eiP	02	59	23	Mediterranean Sea Dc = 12.69°, Az = 164.30°.
12	eiP	18	56	19	Western Caucasus Dc = 13.49°, Az = 96.22°.
12	eiPKP	21	59	50	Tonga Dc = 151.01°, Az = 25.15°.
14	eiPg	15	55	33	Poland Dc = 2.31°, Az = 0.59°.
14	eiP	18	18	54	Near Islands, Aleutian Islands Dc = 76.76°, Az = 16.47°.
15	eP	08	11	21	Leeward Islands 16.99 ±0.02° N, 61.49 ±0.24° W, H = 07 59 58.8 ±0.35 s, h = 62 ±3.7 km, Mag = 5.3°. Dc = 70.81°, Az = 241.55°.
15	eP	23	52	24	Greece Dc = 9.23°, Az = 163.56°.
17	iPg	02	58	39	Near earthquake?
18	eiP	02	04	10	Carlsberg Ridge Dc = 52.11°, Az = 125.86°.

Date	Phase	h	m	s	Remarks
19	eiP	19	32	41	Andreanof Islands, Aleutian Islands Dc = 80.30°, Az = 7.32°.
21	eiPKP	18	48	53	West of Tonga Dc = 147.08°, Az = 30.57°.
22	eiP	03	48	19	Northern Sinkiang Province Dc = 45.51°, Az = 70.46°.
22	eiP	10	29	30	Andreanof Islands, Aleutian Islands Dc = 80.40°, Az = 7.43°.
23	eiP	14	44	00	Andreanof Islands, Aleutian Islands 51.68 ±0.033° N 173.53 ±0.028° W, H = 14 31 51.2 ±0.14 s, h = 51 ±2.2 km, Mag = 5.4 (ISC). Dc = 80.4°, Az = 7.43°.
23	eiPn	15	32	33	Yugoslavia Dc = 3.37°, Az = 145.57°.
24	eiPKP2	09	12	00	Samoa Region Dc = 147.29°, Az = 19.75°.
24	eiPKP	17	38	07	Tonga Dc = 150.58°, Az = 27.28°.
27	eiP	14	54	46	Western Persia Dc = 27.51°, Az = 112.33°.
28	eiPn eiSn	02	00 01	30 04	Yugoslavia Dc = 4.62°, Az = 183.75°.
31	eiPKP	12	09	03	New Hebrides Region Dc = 145.59°, Az = 44.19°.
August – December					The apparatus was out of order.

Earthquake Observations at the Station Hurbanovo

Date	Phase	h	m	s	Remarks
11	eP	14	18	39	Near South Coast of Honshu, Japan Dc = 82.11°, Az = 47.38°.
22	eP	00	27	10	Turkey
	eiSS		29	54	MLH (HUR) = 5.6.
	Lm		35.5		Dc = 13.36°, Az = 135.59°. LmH: 4 s 9.5 μm.
28	eiPKIKP	06	01	37	New Hebrides Dc = 140.77°, Az = 48.61°.

Date	Phase	h	m	s	Remarks
4	eiPKIKP	05	24	24.5	Tonga 21.46 ±0.060° S, 174.04 ±0.057° W, H = 05 04 21.9 ±0.32 s, h = 7 km, Mag = 4.5 (ISC). Dc = 151.87°, Az = 24.74°.
5	eiP	02	04	03.6	Greece
	eiSn		05	43.6	Dc = 9.14°, Az = 162.36°.
	Lm		18.5		LmH: 6 s 45 μm.
8	eiSg	20	12	36.9	Greece-Bulgaria Border Region Dc = 8.34°, Az = 142.04°.
13	eP	05	05	25	Eastern Kazakhstan Dc = 38.57°, Az = 64.12°.
13	eP	10	55	45	Junan Province, China Dc = 67.88°, Az = 75.11°.
19	iPg	18	14	19	Explosion?
19	iPg	19	16	05	Explosion?

Date	Phase	h	m	s	Remarks
5	ePKIKP	16	04	27	Fiji Region Dc = 144.78°, Az = 38.24°.
6	e	02	19	35	Tibet Dc = 49.34°, Az = 85.74°.
6	eP	02	24	51	Tibet
	eiPPP		27	40	MLH (HUR) = 6.
	eiS		32	17	D = 52°, Dc = 49.34°, Az = 85.74°.
	Lm		45.5		LmH: 8 s 22 μm.
6	eiPKIKP	18	21	41	South of Fiji Dc = 153.39°, Az = 32.19°.
7	01	01	20	41	Turkey
	eiPPP		22	11	MLH (HUR) = 5.4.
	eiS		24	15	D = 19.5°, Dc = 18.99°, Az = 108.53°.
	Lm		32.5		LmH: 8 s 24.5 μm.
7	eP	21	40	01	Northeastern China
	eS		49	28	Dc = 67.45°, Az = 58.97°.
12	ei	16	43	42.7	Taiwan Region
	eiPP		46	39.7	MLH (HUR) = 6.5.
	eiPPP		48	18	D = 82°, Dc = 81.48°, Az = 63.35°.
	eiS		53	49	LmH: 14 s 29 μm.
	eiPS		54	29	
	eiSS		59	39	
	LQ	17	13.5		
	LR		20.5		
	Lm		31.5		
16	eiPKIKP	16	08	49.7	Fiji Islands Region
	ei		09	15.7	21.1° S 179.2° W,
	ei		10	40	H = 15 50 32, h = 626 km.
	ei		12	38	Dc = 149.83°, Az = 33.64°.
	ei		17	22	
	eP	01	51	22	Republic of the Congo
	ePP		53	20	MLH (HUR) = 6.5.
	ePPP		54	14	Dc = 47,97°, Az = 164.15°.
	eiS		58	30	LmH: 8 s 31 μm.
	LQ	02	06.5		
	LR		10.5		
	Lm		25.5		

Date	Phase	h	m	s	Remarks
22	eP	08	30	29	Northeastern China
	ePP		32	30	37.49 ±0.046° N 115.06 ±0.046° E,
	ePPP		34	07	H = 08 19 34.6 ±0.20 s, h = 28 ±2.2 km,
	ePS		39	37	Mag = 5.9 (ISC). MLH (HUR) = 6.5,
	LQ		49	42	Dc = 67.41°, Az = 58.80°.
	LR		56.5		LmH: 10 s 15.6 μm.
	Lm	09	08.5		
26	LR	15	55.5		Northeastern China
	Lm	16	05.5		37.70 ±0.030° N 115.12 ±0.030° E,
					H = 15 19 0 ±2.4 s, h = 4 ±14 km,
					Mag = 5.2 (ISC). MLH (HUR) = 6.3,
					LmH: 10 s 4 μm.

Date	Phase	h	m	s	Remarks
3	eiSg	11	41	27.1	Greece
	ei		43.5		Dc = 9.25°, Az = 163.60°.
8	eiP	01	58	28.2	Near East Coast of Kamchatka
					Dc = 75.35°, Az = 24.92°.
16	eiPP	16	47	09.6	Caucasus
	eiPPP		47	24	41.8° N 48.2° E,
	ei		48	39.6	H = 16 42 03,
	eiSS		51	17.6	Dc = 22.04°, Az = 94.84°.
	ei		55	33.6	
	Lm	17	02.5		
23	eiP	00	23	37.5	Northern Celebes
	eiS		34	37.5	Dc = 99.97°, Az = 80.05°.
27	eiP	19	53	30	Turkey
	eiPP		53	45.7	D = 19.8°, Dc = 20.20°, Az = 109.84°.
	ei		54	27.5	
	eiS		57	07.8	
	ei		58	15.7	

Date	Phase	h	m	s	Remarks
4	eiP	06	39	22	Greece
	eiSg		42	14.5	Dc = 9.24°, Az = 163.88°.
	ei		43	23.5	
	ei		44	09.5	
4	eiP	21	51	40	Turkey
	eiS		53	36	D = 11°, Dc = 12.29°, Az = 142.00°.
	Lm	22	00.5		
5	iP	14	33	40	Taiwan Region
	Lm	15	08.5		Dc = 81.31°, Az = 63.41°.
7	eiP	13	11	02	Turkey
	eiSS		14	21.5	MLH (HUR) = 5.1.
	ei		15	04.5	Dc = 12.32°, Az = 141.72°.
	Lm		19.5		LmH: 8 s 9.9 μm.
9	eiP	00	46	31.4	Crete
	ei		47	19.4	MLH (HUR) = 6.1.
	eiS		48	25.4	D = 15.8°, Dc = 14.78°, Az = 152.31°.
	Lm		53.5		LmH: 6 s 43 μm.
24	eiP	09	42	06.8	Southern Greece
	eiS		44	26.8	D = 12.8°, Dc = 10.88°, Az = 164.20°.
	ei		46	44.8	
	Lm		49	16.8	
24	eP	11	12	05.7	Southern Greece
	Lm		17	34.7	Dc = 10.87°, Az = 163.62°.
25	ePn	09	08	45	Albania
	Lm		13.5		Dc = 7.64°, Az = 170.60°.
25	ePKP1	13	40	41	Macquarie Island Region
	e		44	51	Dc = 155.44°, Az = 115.79°.

Date	Phase	h	m	s	Remarks
5	eiP	00	00	24.2	Kurile Islands
	eiS		10	22.2	D = 79°, Dc = 77.99°, Az = 30.30°.
6	eiP	07	53	38.2	Afghanistan-USSR Border Region
	eipP		54	18.2	D = 39°, Dc = 40.14°, Az = 86.57°.
	eisP		54	42.2	
	eiPP		55	26.2	
	eisPP		56	18.2	
	eiS		59	28.2	
	eisS	08	00	42.2	
	eiSS		02	38.2	
	eisSS		03	38.2	
7	eiP	01	13	41.3	Near Coast of Peru
	Lm	02	01.5		Dc = 103.54°, Az = 262.88°.
7	eiP	14	13	26.5	Western Caroline Islands
	eiPP		17	31	MLH (HUR) = 5.8.
	eiPPP		19	50	D = 99°, Dc = 101.56°, Az = 58.75°.
	eiS		24	50	LmH: 20 s 15 μm.
	Lm	15	00.5		
10	eiSg	09	15	14.7	Romania
	Lm		16.5		MLH (HUR) = 4.9.
					Dc = 5.64°, Az = 116.86°.
					LmH: 4 s 9 μm.
11	eiP	10	24	18.1	Greece
	Lm		28.5		MLH (HUR) = 5.1.
					Dc = 8.34°, Az = 163.89°.
					LmH: 8 s 12 μm.
13	eiPKP	18	27	35.4	Santa Cruz Islands
	eisPKP1		28	35.4	Dc = 135.95°, Az = 46.70°.
15	eiPKP	01	18	55	Solomon Islands
	eiPP		21	29.8	MLH (HUR) = 6.8.
	eiPKS		22	25.8	Dc = 131.28°, Az = 52.50°.
	eiPPP		23	57.8	LmH: 20 s 40 μm.
	eiSKS		23	57.8	
	eiSKKS		28	10	
	Lm	02	10.5		

Date	Phase	h	m	s	Remarks
23	eipPP	20	49	20	Philippines 7.2° S 124.8° E, H = 20 29 09, h = 573 km. Dc = 106.44°, Az = 82.46°.
24	eSg	22	39	41	Greece Dc = 9.46°, Az = 163.91°.
27	e	10	57	35	
27	eiP	11	08	23.5	Nepal-India Border Region
	eiPP		10	20.5	MLH (HUR) = 6.2.
	eiPPP		11	12	D = 52°, Dc = 50.71°, Az = 87.27°.
	eiS		15	35	LmH: 8 s 33 μm.
	eiSS		19	07.5	
	Lm		35.5		

Date	Phase	h	m	s	Remarks
4	eiP	18	45	46.7	Aleutian Islands, Alaska
	eiPP		48	39.5	MLH (HUR) = 5.7.
	eiS		55	36.5	D = 78°, Dc = 79.30°, Az = 11.36°.
	eiPPS		56	36.5	
	eiSS	19	00	10.5	
	Lm		23.5		
10	eiP	16	25	08.3	Southwestern Ryukyu Islands
	eiPP		28	22	MLH (HUR) = 6.
	eiPPP		30	10	Dc = 82.95°, Az = 61.54°.
	eiPPS		36	59	LmH: 6 s 2.5 μm.
	Lm		58.5		
12	eiP	18	56	30	Western Caucasus
	eiS		59	02.3	MLH (HUR) = 5.9.
	Lm	19	03.5		D = 14°, Dc = 13.59°. Az = 96.34°.
					LmH: 4 s 24 μm.
19	eiPP	01	55	16	Komandorsky Islands Region
	Lm	02	28.5		MLH (HUR) = 6.5.
					Dc = 72.57°, Az = 18.77°.
					LmH: 14 s 18 μm.
30	eiSg	05	22	09.5	Yugoslavia
	Lm		24.5		Dc = 4.78°, Az = 183.45°.

Date	Phase	h	m	s	Remarks
1	eiP	21	10	56.9	Pakistan
	eiPP		12	20.8	MLH (HUR) = 5.5.
	eiS		17	26.8	D = 44°, Dc = 42.23°, Az = 96.20°.
	Lm		36.5		LmH: 9 s 4.9 μm.
6	eiPn	02	32	34.7	Yugoslavia
	eiPb		32	49.7	MLH (HUR) = 4.8.
	eiSn		33	34.7	Dc = 5.71°, Az = 175.53°.
	eiSg		34	26.7	LmH: 4 s 16.5 μm.
	Lm		36.5		
6	eiPn	05	53	26	Yugoslavia
	eiSn		54	41	Dc = 5.59°, Az = 174.23°.
	eiSg		55	19	
7	eiP	02	25	24.2	Aleutian Islands Region
	eiPP		28	16.2	D = 79.5°, Dc = 79.23°, Az = 17.12°.
	eiS		35	22	
7	Lm	18	28.5		Gulf of California MLH (HUR) = 5.6. Dc = 90.11°, Az = 321.23°. LmH: 16 s 14.2 μm.
10	eP	15	25	32.4	Southern Greece Dc = 11.85°, Az = 163.98°.
11	eP	04	36	40.2	Greece
	eiS		38	42.2	D = 11°, Dc = 9.49°, Az = 162.84°.
11	ePKIKP	05	32	33.2	Tonga Dc = 149.89°, Az = 23.11°.
16	eiPn	03	55	35.4	Albania
	eiSn		58	26.4	Dc = 7.79°, Az = 171.16°.
	Lm	04	01.5		
19	eiP	12	26	32	Turkey
	eiPP		26	50	MLH (HUR) = 5.9.
	iS		30	00	D = 19°, Dc = 18.99°, Az = 108.66°.
	Lm		42.5		

Date	Phase	h	m	s	Remarks
20	eiP	12	03	25	Turkey
	eiPP		03	42	
	eiPPP		03	50	MLH (HUR) = 5.9.
	eiS		06	50	D = 19.2°, Dc = 18.48°, Az = 108.82°.
	LQ		08	50	LmH: 8 s 10 μm.
	Lm		17.5		
21	eiP	01	33	26	Turkey
	eiS		35	32	D = 11°, Dc = 10.03°, Az = 135.38°.

Date	Phase	h	m	s	Remarks
1	eiP	14	25	48.4	Greece
	eiS		28	20.2	37.46 ±0.021° N 22.12 ±0.020° E,
	Lm		32.5		H = 14 22 56.9 ±0.71 s, h = 15 ±5.3 km,
					Mag = 5.3 (ISC). MLH (HUR) = 5.9.
					Dc = 10.68°, Az = 163.64°.
					LmH: 6 s 50 μm.
9	eiPP	21	33	55.1	Indonesia Halmahera (USCGS)
	eiLm		43	35.1	2.5° N 128.5° E,
					H = 21 16 03, h = 180 km,
					MLH (HUR) = 7.
					Dc = 101.86°, Az = 126.77°.
					LmH: 4 s 9.8 μm.
12	eiPKIKP	11	49	22	Loyalty Islands Region
	eiPKS		52	52	Dc = 146.83°, Az = 51.27°.
	eiSKS		56	18	

Date	Phase	h	m	s	Remarks
2	eiPn	11	23	16.9	Romania
	eiPb		23	30.9	Dc = 6.08°, Az = 107.19°.
	eiSn		24	25.9	
	eiSg		25	09.9	
15	ePn	07	00	52.4	Romania
	eiPg		01	14.4	Dc = 6.05°, Az = 108.64°.
	eiSg		02	36.2	
17	eP	21	55	49.9	Near Coast of Peru
	eiPP	22	00	13.9	MLH (HUR) = 6.7.
	eiPPP		02	29.9	D = 102°, Dc = 102.44°, Az = 267.75°.
	eiS		07	25.9	LmH: 18 s 63 μm.
	Lm		43.5		
19	eiP	08	11	23	North of Ascension Island
	eiPcP		12	17	MLH (HUR) = 6.5.
	eiPP		13	30	Dc = 57.23°, Az = 221.09°
	eisS		19	26	LmH: 14 s 27 μm.
	Lm		35.5		
20	eiSn	05	00	58	Yugoslavia
	eiSg		01	28.2	Dc = 4.69°, Az = 184.41°.
27	eiP	06	04	14.2	Novaya Zemlya
	eiPcP		07	26.2	MLH (HUR) = 5.8.
	eiS		09	48.2	Dc = 30.22°, Az = 19.74°.
	eiSSS		11	28.2	
	Lm		22.5		
29	eiP	02	41	43.1	Greece
	eiSn		43	38.1	MLH (HUR) = 5.45.
	eiSg		44	42.1	Dc = 9.63°, Az = 166.85°.
	Lm		48.5		LmH: 3.5 s 11 μm.

Date	Phase	h	m	s	Remarks
3	eP	16	35	53.3	Mona Passage Dc = 73.47°, Az = 280.36°.
5	ePKIKP	13	04	53.5	Tonga Dc = 145.60°, Az = 23.10°.
9	eP	15	14	39.6	Greece-Albania Border Region Dc = 8.86°, Az = 168.07°.
12	ePKIKP	19	04	24.6	New Hebrides Dc = 138.99°, Az = 49.04°.
19	eP	05	32	10	Near East Coast of Honshu, Japan Dc = 81.08°, Az = 42.26°.
26	eP	03	30	10	Greenland Sea Dc = 30.97°, Az = 354.11°.

Date	Phase	h	m	s	Remarks
7	eiP	17	29	53.6	Kurile Islands Region
	eisP		30	04.6	Dc = 79.30°, Az = 31.87°.
8	eiPn	11	32	49	Yugoslavia
	iSn		34	03	MLH (HUR) = 5.4.
	Lm		35.5		Dc = 5.72°, Az = 174.95°. LmH: 6 s 43 μm.
10	eiP	17	11	46	Turkey
	Lm		19.5		Dc = 12.89°, Az = 116.10°.
14	eiPn	14	51	30.6	Romania
	eiSg		53	14.6	Dc = 6.03°, Az = 107.92°.
28	eiP	08	32	30	Near Coast of Northern Chile
	eiS		44	40	Dc = 107.78°, Az = 251.59°.
	Lm	09	22.5		
31	eiPKIKP	18	42	39	Santa Cruz Islands
	eiSKS		49	39	MLH (HUR) = 5.9.
	Lm	19	40.5		Dc = 135.23°, Az = 148.75°. LmH: 20 s 3.5 μm.
31	eiPKIKP	22	34	31	Santa Cruz Islands
	eiPP		37	30	MLH (HUR) = 6.2.
	eiPS		47	45	Dc = 135.23°, Az = 148.75°.
	Lm	23	40.5		LmH: 20 s 7 μm.

Observations of Microseisms at the Station Hurbanovo

Microseismic activity
Apparatus: Mainka NS

January 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	3	1.6	1	3	1.6	2	6	4.5	2	6	7.4
2	2	3	1.6	2	3	1.6	2	6	7.4	2	4	8.4
3	2	3	1.6	2	5	3.1	2	4	1.7	2	3	1.6
4	3	3	1.6	3	3	1.6	1	6	3.0	1	6	3.0
5	1	3	1.6	3	4	3.4	1	8	3.0	1	6	3.0
6	1	6	4.5	1	6	4.5	1	6	7.4	1	4	1.7
7	1	6	4.5	1	6	4.5	2	6	4.5	2	6	4.5
8	1	5	3.1	1	5	3.1	1	7	4.4	1	7	4.4
9	1	3	1.6	1	3	1.6	1	3	1.6	1	3	1.6
10	1	3	1.6	1	3	1.6	2	6	7.4	2	6	7.4
11	2	6	7.4	2	4	3.4	2	6	7.4	2	6	7.4
12	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4
13	2	4	3.4	2	4	3.4	2	6	7.4	2	6	7.4
14	2	4	5.0	1	3	3.5	2	4	3.4	2	6	4.5
15	2	6	3.0	2	3	1.6	2	3	1.6	2	3	1.6
16	2	3	1.6	2	3	1.6	2	3	1.6	2	3	1.6
17	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4
18	2	4	3.4	2	4	3.4	2	6	7.4	2	6	7.4
19	2	6	3.0	2	6	4.5	2	8	4.6	2	6	7.4
20	2	6	7.4	2	6	3.0	2	5	4.7	2	6	3.0
21	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4
22	tt			0.0			2	3	1.6	2	3	1.6
23	2	3	1.6	2	3	1.6	2	3	1.6	0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			2	6	3.0	2	6	3.0
26	2	6	3.0	2	6	3.0	2	6	4.5	2	6	4.5
27	2	4	3.4	2	3	1.6	2	3	1.6	2	3	1.6
28	0.0			0.0			2	3	1.6	2	3	1.6
29	2	3	1.6	2	4	5.0	2	4	5.0	2	4	3.4
30	2	4	3.4	2	4	5.0	2	6	3.0	2	4	3.4
31	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4

Microseismic activity
Apparatus: Mainka EW

January 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	3	1.7	2	6	7.2	2	3	1.7	2	3	1.7
2	2	3	1.7	2	6	1.4	3	3	1.7	2	4	3.2
3	2	3	1.7	2	3	3.0	3	3	1.7	3	3	1.7
4	0.0			1	3	1.7	2	3	1.7	0.0		
5	0.0			1	3	1.7	1	4	3.2	1	4	3.2
6	1	3	1.7	1	5	3.0	1	3	1.7	1	3	1.7
7	1	3	1.7	1	4	3.2	1	4	3.2	1	3	1.7
8	1	3	1.7	1	3	1.7	1	3	3.4	1	3	3.4
9	0.0			0.0			1	3	1.7	1	3	1.7
10	1	3	1.7	1	3	1.7	1	4	3.2	1	4	3.2
11	1	4	3.2	1	4	3.2	1	4	3.2	2	4	3.2
12	0.0			0.0			1	3	1.7	0.0		
13	0.0			1	4	3.2	2	4	3.2	1	4	4.8
14	0.0			1	4	3.2	1	6	7.2	1	6	4.3
15	1	4	3.2	1	3	1.7	1	3	3.4	2	4	3.2
16	2	3	1.7	2	3	1.7	1	3	1.7	2	3	1.7
17	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
18	2	3	1.7	2	3	1.7	2	6	4.3	2	6	4.3
19	2	6	2.9	2	6	2.9	2	4	3.2	2	6	4.3
20	2	4	3.2	2	4	3.2	2	6	2.9	2	4	3.2
21	2	4	3.2	2	3	1.7	2	3	1.7	2	3	1.7
22	tt			2	3	1.7	2	3	1.7	2	3	1.7
23	2	3	3.4	2	3	1.7	1	3	3.4	2	3	1.7
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			2	6	2.9	2	4	3.2
26	2	6	2.9	2	6	2.9	2	6	2.9	2	6	2.9
27	2	4	1.6	2	3	1.7	2	4	1.6	2	3	1.7
28	2	3	1.7	2	3	1.7	2	3	1.7	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			0.0		

Microseismic activity
Apparatus: Mainka NS

February 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	2	4	4.4	2	4	4.4	2	4	4.4	2	3	2.3
2	0.0			0.0			2	4	4.4	2	4	4.4
3	2	4	4.4	2	4	4.4	2	4	6.6	2	4	4.4
4	2	4	4.4	2	4	4.4	2	6	3.9	2	6	3.9
5	2	3	2.3	2	4	4.4	2	6	5.9	2	4	4.4
6	2	4	4.4	2	4	4.4	2	6	5.9	2	6	5.9
7	2	4	4.4	2	6	4.9	2	6	3.9	2	6	3.9
8	2	6	3.9	2	4	2.2	2	6	7.9	2	6	5.9
9	2	4	4.4	2	6	3.9	2	6	3.9	2	6	3.9
10	1	4	2.2	1	3	2.3	0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			2	3	4.6	2	4	4.4
16	2	3	2.3	2	3	2.3	2	3	2.3	2	3	2.3
17	2	3	2.3	2	4	2.2	2	6	3.9	2	6	5.9
18	2	3	2.3	2	3	2.3	1	6	3.9	1	6	5.9
19	0.0			0.0			2	4	6.6	2	3	2.3
20	1	3	2.3	2	3	2.3	2	3	2.3	2	3	2.3
21	2	3	2.3	3	6	5.9	2	6	5.9	2	6	5.9
22	2	3	2.3	2	3	2.3	2	3	2.3	2	3	2.3
23	2	3	2.3	2	3	2.3	tt			2	3	2.3
24	2	4	4.4	2	4	4.4	2	8	10.0	2	6	5.9
25	2	6	5.9	2	6	3.9	2	6	9.9	2	6	9.9
26	2	6	9.9	2	6	9.9	2	6	9.9	2	6	9.9
27	2	6	9.9	2	6	9.9	2	6	3.9	2	4	4.4
28	2	4	4.4	0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka EW

February 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	2	6	7.7	2	6	7.7	2	6	3.1	2	4	1.7
2	2	3	1.8	2	4	3.4	2	3	1.8	2	3	1.8
3	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
4	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
5	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
6	2	3	1.8	2	3	1.8	2	4	3.4	2	3	1.8
7	2	3	1.8	2	3	1.8	1	3	1.8	0.0		
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			2	3	3.5	2	3	3.5
16	0.0			0.0			2	3	1.8	0.0		
17	2	3	1.8	0.0			1	3	1.8	0.0		
18	0.0			0.0			0.0			0.0		
19	0.0			0.0			1	3	1.8	0.0		
20	0.0			0.0			1	3	1.8	0.0		
21	0.0			3	4	3.4	3	4	3.4	0.0		
22	0.0			3	4	3.4	0.0			2	3	1.8
23	0.0			2	3	1.8	tt			2	3	1.8
24	2	3	1.8	2	4	1.7	2	6	6.1	2	6	5.7
25	2	4	3.4	2	4	3.4	2	6	7.7	2	6	7.7
26	2	4	3.4	2	4	5.1	2	6	7.7	2	4	5.1
27	2	3	3.5	2	3	3.5	2	3	1.8	0.0		
28	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

March 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			2	3	2.0	2	3	2.0
3	2	3	2.0	2	3	2.0	2	4	3.8	2	4	3.8
4	2	3	2.0	2	3	2.0	0.0			0.0		
5	0.0			0.0			2	3	2.0	2	3	2.0
6	2	3	2.0	2	3	2.0	0			0		
7	0			0.0			2	3	2.0	2	3	2.0
8	2	3	2.0	0.0			2	4	3.8	2	3	2.0
9	2	3	2.0	2	3	2.0	2	4	3.8	2	4	3.8
10	2	3	2.0	2	4	3.8	2	4	3.8	2	3	2.0
11	0.0			2	4	3.8	2	6	3.5	2	4	3.8
12	2	4	3.8	2	4	3.8	2	3	2.0	tt		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			2	4	3.8	2	4	3.8
15	2	4	3.8	2	6	3.5	2	4	3.8	2	4	1.9
16	2	4	1.9	2	4	1.9	2	4	3.8	2	4	3.8
17	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
18	2	3	2.0	2	3	2.0	2	6	3.5	2	6	1.7
19	0.0			2	3	2.0	2	4	3.8	2	6	3.5
20	2	3	2.0	2	3	4.0	2	6	3.5	2	6	3.5
21	2	6	3.5	2	6	3.5	2	4	3.8	2	6	3.5
22	2	4	3.8	2	6	3.5	2	4	3.8	2	4	3.8
23	2	3	2.0	2	4	3.8	2	6	5.3	2	6	3.5
24	2	4	3.8	2	6	5.3	2	6	5.3	2	6	5.3
25	2	4	3.8	2	4	3.8	2	4	3.8	2	4	3.8
26	2	3	2.0	2	3	2.0	2	4	3.8	2	4	3.8
27	2	6	3.5	2	6	7.0	2	6	8.7	2	6	8.7
28	2	6	8.7	2	6	5.3	2	6	3.8	2	4	3.8
29	2	4	3.8	2	4	3.8	2	6	5.3	2	6	3.5
30	2	3	2.0	2	3	2.0	2	3	2.0	0.0		
31	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka EW

March 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	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			0.0			2	3	0.1	0.0		
6	2	3	1.7	2	3	1.7	0			0		
7	0.0			0.0			...			...		
8	0			0			0			0		
9	0			0			2	4	3.1	2	4	1.6
10	2	3	1.7	2	3	1.7	...			0.0		
11	0.0			2	3	1.7	...			0.0		
12	2	3	1.7	2	3	1.7	0.0			tt		
13	0.0			2	3	1.7	0.0			0.0		
14	0.0			0.0			2	3	1.7	2	3	1.7
15	0.0			2	3	1.7	0.0			0.0		
16	0.0			0.0			0.0			0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			2	3	1.7	0		
19	0			0			0			0		
20	0			0			2	6	1.4	2	6	1.4
21	2	3	1.7	2	4	3.1	2	4	3.1	2	4	3.1
22	2	4	3.1	2	4	3.1	0.0			0.0		
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			2	3	1.7	2	3	1.7
25	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
26	2	3	1.7	2	3	1.7	0.0			0.0		
27	2	4	3.5	2	4	3.1	2	6	2.8	2	6	2.8
28	2	6	2.8	2	4	1.6	2	4	3.1	2	4	3.1
29	2	4	1.6	2	4	1.6	0.0			0.0		
30	0.0			0.0			0.0			0.0		
31	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

April 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	3	1.9	1	3	1.9	0.0			0.0		
2	0.0			1	3	1.9	1	3	1.9	0.0		
3	0.0			0.0			2	3	1.9	2	3	1.9
4	2	3	1.9	2	3	1.9	2	4	3.6	2	3	3.8
5	2	4	1.8	2	4	1.8	2	4	3.6	2	3	1.9
6	2	3	1.9	2	3	1.9	2	4	3.6	2	3	1.9
7	2	3	1.9	2	3	1.9	0.0			0.0		
8	0.0			0.0			2	3	1.9	2	3	1.9
9	2	3	1.9	2	3	1.9	2	4	1.9	2	4	3.6
10	2	4	3.6	2	3	1.9	2	4	3.6	0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			2	3	1.9	2	3	1.9
13	0.0			0.0			2	3	1.9	2	3	1.9
14	2	3	1.9	2	3	1.9	2	4	3.6	2	4	5.4
15	2	4	5.4	2	4	5.4	2	4	3.6	2	6	3.2
16	2	4	3.6	2	4	3.6	2	4	3.6	2	3	1.9
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			0.0		
21	0.0			0.0			2	3	1.9	0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			2	4	3.6	2	3	1.9
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			2	4	1.8	2	3	1.9
28	2	3	1.9	2	4	3.6	0.0			0.0		
29	0.0			0.0			2	3	1.9	2	3	1.9
30	2	4	1.8	2	4	1.8	2	3	1.9	0.0		

Microseismic activity
Apparatus: Mainka EW

April 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
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	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
6	2	3	1.7	2	3	1.7	2	3	1.7	0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			0.0			2	3	1.7	2	3	1.7
9	0.0			0.0			0.0			2	3	1.7
10	0.0			0.0			2	3	1.7	2	3	1.7
11	2	3	1.7	2	3	1.7	0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			2	3	1.7	2	3	1.7
14	2	3	1.7	2	3	1.7	2	4	3.2	2	4	3.2
15	2	4	3.2	2	4	3.2	2	3	1.7	2	3	1.7
16	2	3	1.7	2	3	1.7	0.0			0.0		
17	2	3	1.7	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			0.0		
21	0.0			0.0			2	3	1.7	2	3	1.7
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			2	3	1.7	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			0.0			0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			2	3	1.7	0.0		
30	0.0			0.0			2	3	1.7	0.0		

Microseismic activity
Apparatus: Mainka NS

May 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	2	3	2.2	2	4	2.1	2	3	2.2	2	3	2.2
2	2	4	4.2	2	4	4.2	2	3	2.2	0.0		
3	0.0			2	3	2.2	2	3	2.2	0.0		
4	0.0			0.0			0.0			0.0		
5	0.0			0.0			0.0			0.0		
6	2	3	2.2	2	4	2.1	2	4	2.1	2	3	2.2
7	0.0			2	4	2.1	0.0			0.0		
8	0.0			0.0			0.0			0.0		
9	tt			2	3	2.2	2	4	4.2	2	4	4.2
10	2	4	4.2	2	4	4.2	2	3	2.2	2	4	2.1
11	2	4	2.1	2	4	2.1	2	3	2.2	0.0		
12	0.0			0.0			2	4	4.2	2	4	2.1
13	0.0			2	3	2.2	0.0			0.0		
14	0.0			0.0			1	3	2.2	2	3	2.2
15	2	3	2.2	2	3	2.2	2	3	2.2	2	3	2.2
16	0.0			0.0			2	3	2.2	2	3	2.2
17	2	3	2.2	2	3	2.2	2	3	2.2	2	3	2.2
18	2	3	2.2	2	3	2.2	2	3	2.2	2	3	2.2
19	2	3	2.2	2	3	2.2	0.0			0.0		
20	0.0			0.0			0.0			2	3	2.2
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			2	4	4.2	2	4	4.2
24	2	3	2.2	2	6	3.7	2	4	4.2	2	3	2.2
25	2	4	2.1	2	4	4.2	2	4	6.2	2	3	2.2
26	2	3	2.2	2	4	4.2	2	4	2.1	2	3	2.2
27	2	3	2.2	2	3	2.2	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			0.0			0.0		
31	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka EW

May 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			2	3	1.5	0.0		
4	0.0			0.0			0.0			0.0		
5	2	3	1.5	2	4	1.5	2	3	1.5	0.0		
6	2	3	1.5	2	3	1.5	0.0			0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			0.0			2	3	1.5	0.0		
9	tt			0.0			0			0		
10	0			0			0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0			0			2	3	1.5	0.0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			1	3	1.5	0.0		
15	1	3	1.5	0.0			0.0			0.0		
16	0.0			0.0			2	3	1.5	0.0		
17	2	3	1.5	2	3	1.5	2	3	1.5	0.0		
18	0.0			0.0			2	3	1.5	2	3	1.5
19	2	3	1.5	2	3	1.5	0.0			0.0		
20	0.0			0.0			0.0			2	3	1.5
21	0.0			0.0			2	3	1.5	2	3	1.5
22	0.0			0.0			2	3	1.5	2	3	1.5
23	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5
24	0.0			2	3	1.5	2	3	1.5	2	3	1.5
25	2	3	1.5	2	4	1.5	0.0			0.0		
26	0.0			0.0			0.0			0.0		
27	0.0			0.0			2	4	1.5	2	3	1.5
28	0.0			0.0			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			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

June 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			2	3	2.3	2	3	2.3
3	0.0			0.0			2	3	2.3	2	3	2.3
4	0.0			0.0			2	3	2.3	0.0		
5	0.0			0.0			0.0			0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			0			0		
8	0			0			0.0			0.0		
9	0.0			0.0			2	3	2.3	0.0		
10	...			...			0.0			2	3	2.3
11	0.0			2	3	2.3	0.0			0.0		
12	0.0			0.0			2	3	2.3	2	3	2.3
13	2	3	2.3	2	3	2.3	0.0			tt		
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0			0		
17	0			0			0			0		
18	0			0			0			0		
19	0			0			0			0		
20	0			0			2	3	2.3	2	3	2.3
21	0.0			0.0			...			...		
22	...			...			0.0			2	3	2.3
23	2	3	2.3	...			...			...		
24	...			...			1	3	2.3	1	3	2.3
25	1	3	2.3	1	3	2.3	2	3	2.3	2	3	2.3
26	0.0			0.0			tt			0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			1	3	2.3	1	3	2.3
29	1	3	2.3	1	3	2.3	1	3	2.3	1	3	2.3
30	1	3	2.3	1	3	2.3	1	3	2.3	1	3	2.3

Microseismic activity
Apparatus: Mainka EW

June 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			2	3	1.6	0.0		
3	0.0			0.0			0.0			2	3	1.6
4	0.0			0.0			2	4	1.6	2	4	1.6
5	0.0			0.0			0.0			0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			0			0		
8	0			0			2	3	1.6	2	3	1.6
9	0.0			0.0			2	4	3.1	2	3	1.6
10	2	3	1.6	2	3	1.6	0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			0.0			tt		
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0			0		
17	0			0			0			0		
18	0			0			2	3	3.3	0		
19	0			0			0			0		
20	0			0			2	3	1.6	0.0		
21	0.0			0.0			2	3	1.6	0.0		
22	0			0			0.0			2	3	1.6
23	2	3	1.6	0.0			0.0			0.0		
24	0.0			0.0			1	3	1.6	1	3	1.6
25	1	3	1.6	1	3	1.6	1	3	3.3	1	3	3.3
26	1	3	3.3	1	3	3.3	tt			0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			2			1	3	3.5	1	3	3.3
29	1	3	3.3	1	3	3.3	1	3	3.3	1	3	1.6
30	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

July 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	3	2.1	0.0			0.0			0.0		
2	0.0			0.0			1	3	2.1	0.0		
3	0.0			0.0			1	3	2.1	0.0		
4	1	3	2.1	1	3	2.1	1	4	3.9	tt		
5	0.0			0.0			0.0			0.0		
6	0.0			0.0			1	3	2.1	1	3	2.1
7	1	3	2.1	0.0			1	3	4.2	1	3	2.1
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			1	3	2.1
11	1	3	2.1	1	3	2.1	1	4	2.0	1	4	2.0
12	1	4	3.9	1	4	3.9	1	3	2.1	tt		
13	0.0			0.0			0.0			0.0		
14	0.0			1	3	2.1	1	3	2.1	0.0		
15	0.0			0.0			1	3	2.1	1	3	2.1
16	1	3	2.1	1	3	2.1	0.0			0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			1	3	2.1	1	3	2.1
19	1	3	2.1	1	3	2.1	0.0			0.0		
20	0.0			0.0			1	3	2.1	1	3	2.1
21	1	3	2.1	1	3	2.1	1	4	2.0	1	4	3.9
22	0.0			1	3	2.1	1	4	2.0	1	4	3.9
23	1	4	2.0	1	4	3.9	0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			1	3	2.1	1	3	2.1
26	0.0			1	3	2.1	1	3	2.1	0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			1	4	3.9	1	4	3.9
30	1	3	2.1	1	4	3.9	0.0			0.0		
31	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka EW

July 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
3	1	3	1.7	1	4	3.2	1	4	3.2	1	4	3.2
4	1	3	1.7	1	4	3.2	1	4	3.2	tt		
5	0.0			0.0			1	3	1.7	0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			1	3	1.9	0.0		
8	0.0			1	4	3.2	1	3	1.9	1	3	1.7
9	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
10	1	3	1.7	1	3	1.7	1	4	1.6	1	6	4.0
11	0.0			0.0			1	6	4.0	1	6	4.0
12	1	3	1.7	1	4	3.2	1	6	4.0	tt		
13	1	3	1.7	1	3	1.7	1	4	1.6	1	4	1.6
14	1	4	1.6	1	4	1.6	1	4	1.6	1	4	1.6
15	1	3	1.7	1	4	1.6	1	4	1.6	1	4	1.6
16	1	4	3.2	1	4	3.2	1	4	3.2	1	4	3.2
17	1	6	1.4	1	3	1.7	1	4	3.2	1	4	3.2
18	0.0			0.0			0.0			0.0		
19	0.0			0.0			1	3	1.9	1	3	1.7
20	0.0			1	3	1.7	1	3	1.9	1	3	1.7
21	0.0			0.0			1	4	3.2	1	4	1.6
22	0.0			1	4	1.6	1	4	3.2	1	4	1.6
23	0.0			1	4	1.6	0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			1	4	1.6	1	3	1.7
26	0.0			1	3	1.7	1	4	1.6	1	4	1.6
27	0.0			1	4	1.7	1	3	1.9	1	3	1.7
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			1	3	1.9	1	3	1.7
30	1	3	1.7	1	3	1.7	0.0			0.0		
31	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

August 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			1	3	1.8	0.0			0.0		
2	0.0			0.0			1	3	1.8	0.0		
3	0.0			1	3	1.8	1	3	4.1	1	3	1.8
4	0.0			1	3	4.1	1	4	3.9	1	4	3.9
5	0.0			1	3	1.8	1	4	1.9	1	4	1.9
6	0.0			0.0			1	3	1.8	0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			1	3	1.8	1	3	1.8	1	3	1.8
9	0.0			1	3	1.8	1	6	3.5	1	4	3.9
10	0.0			0.0			1	6	3.5	1	3	1.8
11	0.0			1	3	1.8	1	4	1.9	1	4	1.9
12	1	3	1.8	0.0			2	4	3.9	0.0		
13	0.0			0.0			0.0			1	3	1.8
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			2	3	1.8	1	3	1.8
16	0.0			1	3	1.8	1	3	1.8	1	3	1.8
17	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
18	0.0			1	3	1.8	1	4	3.9	1	3	1.8
19	0.0			1	4	1.9	tt			1	3	1.8
20	0.0			1	3	1.8	tt			0.0		
21	0.0			0.0			1	3	1.8	1	3	1.8
22	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
23	1	3	1.8	1	3	1.8	0.0			0.0		
24	0.0			0.0			1	3	1.8	0.0		
25	0.0			0.0			1	3	1.8	1	3	1.8
26	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
27	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
28	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
29	0.0			0.0			1	3	1.8	1	3	1.8
30	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
31	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8

Microseismic activity
Apparatus: Mainka EW

August 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			1	3	1.7	0.0			0.0		
2	0.0			0.0			0.0			0.0		
3	0.0			0.0			1	3	3.5	0.0		
4	0.0			1	3	1.7	1	6	1.5	1	4	3.3
5	1	4	3.3	1	4	3.3	1	3	1.7	1	4	1.7
6	1	4	3.3	1	4	3.3	1	3	1.7	0.0		
7	0.0			0.0			1	3	1.7	0.0		
8	1	3	3.5	1	3	3.5	1	4	3.3	1	4	1.7
9	1	4	1.7	1	4	1.7	1	4	3.3	1	4	3.3
10	0.0			1	6	3.0	1	4	3.3	0.0		
11	0.0			1	4	3.3	1	4	3.3	1	3	1.7
12	0.0			0.0			1	4	3.3	0.0		
13	0.0			0.0			1	4	3.3	1	3	1.7
14	0.0			0.0			0.0			0.0		
15	0.0			1	3	1.7	1	4	1.7	1	4	1.7
16	0.0			1	4	3.3	1	4	3.3	1	4	3.3
17	0.0			1	4	3.3	1	3	1.7	1	3	1.7
18	1	3	1.7	1	3	1.7	1	4	1.7	1	4	1.7
19	0.0			1	3	1.7	tt			1	3	1.7
20	0.0			1	3	1.7	tt			0.0		
21	0.0			0.0			1	3	1.7	1	3	1.7
22	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
23	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
24	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			1	3	1.7	1	3	1.7
27	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
28	1	3	1.7	1	3	1.7	1	3	1.7	1	3	1.7
29	1	3	1.7	1	3	1.7	0.0			0.0		
30	0.0			0.0			0.0			0.0		
31	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

September 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	3	2.0	1	3	2.0	1	3	2.0	1	3	2.0
2	1	3	2.0	0.0			1	4	3.9	1	4	3.9
3	0.0			1	3	2.0	1	3	2.0	0.0		
4	0.0			0.0			1	3	2.0	0.0		
5	1	3	4.1	1	4	3.9	1	6	3.4	1	6	3.4
6	1	4	3.9	1	4	3.9	1	4	5.8	1	4	5.8
7	1	4	5.8	1	4	5.8	1	4	3.9	1	4	3.9
8	1	4	5.8	1	4	5.8	1	4	3.9	1	4	3.9
9	1	3	2.0	1	4	3.9	1	4	3.9	1	4	3.9
10	0.0			1	4	3.9	1	4	3.9	0.0		
11	0.0			0.0			0.0			1	3	2.0
12	0.0			1	4	3.8	1	4	3.9	1	4	3.9
13	1	3	2.0	1	3	3.9	1	5	3.6	1	5	3.6
14	0.0			1	3	3.9	1	4	5.8	1	4	3.9
15	1	3	2.0	1	4	5.8	1	6	3.4	1	4	5.8
16	1	4	3.9	1	4	3.9	1	5	5.5	1	4	3.9
17	1	4	3.9	1	6	8.7	1	5	5.5	1	6	8.7
18	1	4	3.9	1	4	3.9	1	3	2.0	1	3	2.0
19	1	3	2.0	1	4	3.9	1	4	3.9	1	4	3.9
20	1	4	3.9	1	4	5.8	1	4	5.8	1	6	8.7
21	1	4	3.9	1	4	5.8	1	4	3.9	1	4	3.9
22	1	3	2.0	1	4	3.9	1	4	5.8	1	3	2.0
23	0.0			1	3	2.0	1	3	2.9	1	3	2.0
24	1	3	2.0	1	3	2.0	1	3	2.0	1	3	2.0
25	0.0			1	3	2.0	1	3	2.0	0.0		
26	1	3	2.0	0.0			0.0			0.0		
27	0.0			0.0			1	3	2.0	0.0		
28	0.0			0.0			1	3	2.0	1	3	2.0
29	1	3	2.0	1	3.	2.0	0.0			0.0		
30	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka EW

September 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	1	3	1.7	1	3	1.7	0.0			0.0		
3	0.0			0.0			0.0			0.0		
4	0.0			0.0			1	3	1.7	0.0		
5	0.0			0.0			1	6	2.8	1	6	2.8
6	2	5	3.0	2	6	4.2	1	6	7.1	1	6	7.1
7	1	4	3.2	1	4	4.7	1	5	4.3	1	4	3.2
8	1	4	3.2	1	4	3.2	1	4	3.2	1	3	3.3
9	1	4	3.2	1	4	3.2	1	3	1.7	1	3	1.7
10	0.0			1	3	1.7	1	3	1.7	0.0		
11	0.0			1	3	1.7	0.0			0.0		
12	0.0			1	3	1.7	0.0			0.0		
13	0.0			0.0			1	3	1.7	1	3	1.7
14	1	3	1.7	1	4	3.2	1	5	3.0	1	5	3.0
15	1	3	1.7	1	4	3.2	1	5	3.0	1	5	3.0
16	1	3	1.7	1	3	1.7	1	4	3.2	1	4	3.2
17	1	4	3.2	1	4	3.2	1	4	3.2	1	4	3.2
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			0.0		
21	0.0			0.0			0.0			0.0		
22	0.0			0.0			0.0			1	3	1.7
23	0.0			0.0			0.0			0.0	3	
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			0.0			0.0		
29	0.0			0.0			1	3	1.7	1	3	1.7
30	0.0			0.0			0.0			0.0		

Microseismic activity
Apparatus: Mainka NS

October 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			1	3	2.0	1	4	3.7	1	4	3.7
3	1	4	5.6	1	4	5.6	1	4	9.4	1	4	9.4
4	1	4	3.7	1	4	3.7	1	4	9.4	1	4	9.4
5	1	3	2.0	1	3	2.0	1	3	4.0	1	3	4.0
6	1	3	4.0	1	3	7.9	0.0			1	3	4.0
7	1	4	3.7	1	4	3.7	1	3	4.0	1	3	3.7
8	1	3	2.0	1	4	3.7	1	3	4.0	1	3	2.0
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			1	3	2.0	1	3	2.0
11	1	3	2.0	1	3	2.0	1	4	1.9	1	4	1.9
12	1	3	2.0	1	4	1.9	1	4	3.7	1	4	3.7
13	1	3	2.0	1	4	3.7	1	4	3.7	1	4	3.7
14	1	3	2.0	1	4	3.7	1	4	3.7	1	4	1.9
15	0.0			1	4	3.7	1	3	4.0	1	4	4.0
16	1	3	2.0	1	3	4.0	...			...		
17	...			...			1	3	2.0	1	3	2.0
18	1	3	2.0	1	3	2.0	1	4	5.6	1	4	5.6
19	1	3	2.0	1	4	3.7	1	3	2.0	1	3	2.0
20	1	3	2.0	1	3	2.0	1	3	2.0	1	3	2.0
21	0.0			1	3	2.0	1	4	3.7	1	4	3.7
22	1	4	3.7	1	4	3.7	1	4	1.9	1	4	1.9
23	0.0			0.0			1	3	2.0	1	3	2.0
24	1	3	2.0	1	3	2.0	1	4	3.7	1	4	9.4
25	1	4	9.4	1	4	9.4	1	4	9.4	1	4	9.4
26	1	4	9.4	1	4	9.4	1	4	9.4	1	4	9.4
27	1	4	9.4	tt			1	3	2.0	1	3	2.0
28	1	3	2.0	1	3	2.0	0.0			0.0		
29	0.0			0.0			1	3	2.0	1	3	2.0
30	1	3	2.0	1	3	2.0	1	3	2.0	1	3	2.0
31	1	3	2.0	1	3	2.0	1	3	2.0	1	3	2.0

Microseismic activity
Apparatus: Mainka EW

October 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			0.0			0.0		
2	0.0			0.0			1	3	1.8	1	3	1.8
3	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
4	1	3	1.8	1	3	3.6	1	3	1.8	0.0		
5	0.0			0.0			1	4	3.6	1	4	3.6
6	1	3	1.8	1	4	3.5	0.0			0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			1	3	1.8	1	3	1.8
13	0.0			1	3	1.8	1	3	1.8	1	3	1.8
14	0.0			1	3	1.8	0.0			0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0.0			0.0		
17	0.0			0.0			0.0			0.0		
18	0.0			0.0			1	3	1.8	1	3	1.8
19	0.0			0.0			0.0			0.0		
20	0.0			1	3	1.8	1	3	1.8	0.0		
21	1	3	1.8	1	3	1.8	0.0			0.0		
22	0.0			0.0			1	3	3.6	1	3	3.6
23	0.0			1	3	1.8	1	3	3.6	1	3	3.6
24	1	3	3.6	1	3	3.6	1	4	3.6	1	4	3.6
25	1	3	3.6	1	4	3.5	0.0			0.0		
26	0.0			tt			0.0			0.0		
27	0.0			0.0			0.0			0.0		
28	...			...			...			...		
29	...			...			1	3	1.8	1	3	1.8
30	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
31	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8

Microseismic activity
Apparatus: Mainka NS

November 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	4	4.5	1	4	4.5	1	6	10.0	1	6	10.0
2	1	4	4.5	1	4	4.5	1	4	6.7	1	4	4.5
3	1	4	6.7	1	6	7.8	1	3	4.7	1	3	4.7
4	1	3	4.7	1	3	4.7	1	4	4.5	1	4	6.7
5	1	4	6.7	1	4	6.7	1	3	2.4	1	3	2.4
6	1	3	2.4	1	3	2.4	1	4	4.5	1	4	4.5
7	1	4	4.5	1	4	4.5	1	4	4.5	1	4	4.5
8	1	4	4.5	1	4	4.5	1	4	4.5	1	4	4.5
9	1	3	2.4	1	3	2.4	1	3	2.4	1	3	2.4
10	1	3	2.4	1	3	2.4	1	4	4.5	1	4	6.7
11	1	3	2.4	1	3	2.4	1	3	2.4	1	3	2.4
12	1	3	2.4	1	3	2.4	1	4	2.2	1	4	2.2
13	1	4	2.2	1	4	3.6	1	4	6.7	1	4	6.7
14	1	4	6.7	1	4	6.7	1	4	4.7	1	4	4.5
15	1	3	4.7	1	4	6.7	1	6	10.0	1	6	8.0
16	1	6	6.0	1	4	11.1	1	6	10.0	1	6	10.0
17	1	4	4.5	1	4	6.7	1	4	6.7	1	4	6.7
18	1	4	4.5	1	3	2.4	1	4	4.7	1	3	2.4
19	1	3	2.4	1	3	2.4	1	4	4.7	1	4	4.5
20	...			...			1	3	2.4	1	3	2.4
21	1	3	2.4	1	3	2.4	1	3	2.4	1	3	2.4
22	1	3	2.4	1	3	2.4	1	3	2.4	1	3	2.4
23	1	3	2.4	1	3	2.4	1	3	2.4	1	3	2.4
24	1	3	2.4	1	3	2.4	1	3	2.4	1	3	2.4
25	1	3	2.4	1	3	2.4	1	4	2.2	1	3	2.4
26	1	3	2.4	1	3	2.4	0.0			0.0		
27	0.0			0.0			1	4	2.2	1	4	4.5
28	1	4	4.5	1	4	4.7	1	4	6.7	1	4	6.7
29	1	4	4.5	1	4	4.7	1	4	4.5	1	4	4.5
30	1	4	4.5	1	4	4.7	1	4	4.5	1	4	4.5

Microseismic activity
Apparatus: Mainka EW

November 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	3	3.6	1	3	3.6	1	6	4.4	1	4	5.1
2	1	4	3.4	1	4	3.4	1	4	3.4	1	4	3.4
3	1	4	3.4	1	3	3.6	1	3	3.6	1	3	3.6
4	1	3	1.8	1	3	1.8	...			1	4	3.4
5	1	4	3.4	1	4	3.4	1	4	3.4	1	4	3.4
6	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
7	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	1	4	5.1	1	4	5.1	1	3	1.8	1	3	1.8
14	1	3	1.8	1	3	1.8	1	3	1.8	0.0		
15	0.0			1	3	1.8	1	4	3.4	1	3	1.8
16	1	3	1.8	1	3	1.8	1	5	4.6	1	3	3.6
17	1	3	1.8	1	3	1.8	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			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			1	3	1.8	0.0		
24	0.0			1	3	1.8	1	3	1.8	1	3	1.8
25	1	3	1.8	1	3	1.8	0.0			0.0		
26	0.0			0.0			0.0			0.0		
27	0.0			0.0			...			...		
28	...			...			...			...		
29	...			...			1	3	1.8	1	3	1.8
30	1	3	1.8	1	3	1.8	1	3	1.8	1	3	1.8

Microseismic activity
Apparatus: Mainka NS

December 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
1	1	4	5.4	1	4	5.4	1	3	3.8	1	4	5.4
2	1	4	5.4	1	4	5.4	1	4	5.4	1	4	5.4
3	1	4	5.4	1	4	5.4	1	3	1.9	1	3	1.9
4	1	3	1.9	1	3	1.9	1	4	1.8	1	4	3.8
5	1	4	3.5	1	4	3.8	1	4	5.4	1	4	5.4
6	1	4	5.4	1	4	5.4	1	4	3.5	1	3	3.8
7	1	3	3.8	1	4	3.8	1	4	3.5	1	4	3.5
8	1	3	3.8	1	4	3.8	1	4	3.5	1	4	3.8
9	1	4	3.5	1	4	3.8	1	3	3.8	1	3	3.8
10	1	3	1.9	1	3	1.9	1	4	3.5	1	4	3.8
11	1	3	1.9	1	3	1.9	1	4	3.5	1	4	5.4
12	1	3	1.9	1	3	1.9	1	3	1.9	1	3	1.9
13	1	3	1.9	1	3	1.9	1	4	3.5	1	4	3.8
14	1	4	1.8	1	4	3.8	1	4	1.8	1	4	1.8
15	1	4	1.8	1	4	1.8	1	3	1.9	1	3	1.9
16	1	3	1.9	1	3	1.9	1	4	3.5	1	4	3.8
17	1	4	3.5	1	4	3.8	1	4	3.5	1	4	3.8
18	1	4	3.5	1	4	3.8	1	4	3.5	1	4	3.8
19	1	4	3.5	1	4	3.8	1	4	3.5	1	4	5.4
20	1	4	3.5	1	4	3.8	1	6	5.0	1	4	5.4
21	1	4	3.5	1	4	6.2	1	6	4.8	1	4	5.4
22	1	4	5.4	1	4	5.4	1	4	3.5	1	4	3.8
23	1	4	3.5	1	4	3.8	1	4	3.5	1	6	4.8
24	1	6	8.3	1	6	5.0	1	4	5.4	1	4	5.4
25	1	4	5.4	1	4	4.8	1	4	5.4	1	4	3.8
26	1	4	3.5	1	4	3.8	1	4	3.5	1	4	3.8
27	1	4	3.5	1	4	3.8	1	4	3.5	1	4	3.8
28	1	4	3.5	1	4	3.8	1	3	3.5	1	4	3.8
29	1	4	3.5	1	4	3.8	1	4	3.5	1	3	3.8
30	1	3	3.8	1	3	3.8	1	3	3.8	1	3	1.9

Microseismic activity
Apparatus: Mainka EW

December 1966

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
Date	K	T	A	K	T	A	K	T	A	K	T	A
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			0.0			0.0			0.0		
6	0.0			0.0			0.0			0.0		
7	0.0			0.0			0.0			0.0		
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			0.0		
10	0.0			0.0			0.0			0.0		
11	0.0			0.0			0.0			0.0		
12	0.0			0.0			0.0			0.0		
13	0.0			0.0			0.0			0.0		
14	0.0			0.0			0.0			0.0		
15	0.0			0.0			0.0			0.0		
16	0.0			0.0			0.0			0.0		
17	0			0			0			0		
18	0			0			0			0		
19	0			0			...			...		
20	...			...			...			...		
21	...			...			...			...		
22	...			...			...			...		
23	...			...			0			0		
24	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			...			...		
28	...			...			...			...		
29	...			...			...			...		
30	...			...			0.0			0.0		
31	0.0			0.0			0.0			0.0		

Macroseismic Observations of Earthquakes on the Territory of Slovakia in the Years 1964 and 1965

Macroseismic Observations 1964

Date	Time	Location	Latitude	Longitude	Intensity (MCS)	Felt at
April 13	08 30	Yugoslavia	45.3° N	18.2° E	3.5°	Bratislava
June 30	12 30	Austria	47.7° N	16.0° E	3°	Bratislava
September 23	03 35	Middle Slovakia	48.8° N	19.6° E	I_0= 4.5°	
					4.5°	Valaská, Michalová, Polomka
					4°	Bacúch, Beňuš, Brezno, Čierny Balog, Pohorelá, Revúca, Valkovňa, Tisovec
					3°	Horná Štubňa
						Acoustic effects: Polomka, Valkovňa, Pohorelá, Čierny Balog, Michalová, Rožňava
September 30	21 31	North-West Slovakia	49.2° N	19.4° E	I_0 = 4.5°	
					4.5°	Liptovská Teplá, Dolný Kubín
					4°	Likavka, Martinček, Ružomberok
					3.5°	Párnica, Valaská Dubová
						Acoustic effects: Likavka, Dolný Kubín, Valaská Dubová, Ružomberok

Date	Time	Location	Latitude	Longitude	Intensity (MCS)	Felt at
October 27	19 46	Austria	47.8° N	16.0° E	I_0 = 6.5° 4.5° 4° 3.5°	 Devín, Javorovce, Jur, Modra, Pezinok, Rača, Rusovce, Záhorská Ves Devínská Nová Ves, Dolné Saliby, Malacky, Myjava, Pezinok, Senec, Sereď, Sládkovičovo, Stupava, Šúrovo, Zlaté Klasy, Zohor Bernolákovo, Brezová pod Bradlom, Cífer, Galanta, Hamuljakovo, Limbach, Mojmírovce, Myslenice, Komárno, Nová Dubnica, Nové Zámky, Partizánske, Piešťany, Trnava, Tvrdošovce, Šaľa, Veľké Leváre, Zvolen
December 30	03 10	West Slovakia	48.5° N	17.8° E	I_0 = 5° 5° 4.5°	 Plavecké Podhradie, Veľke Leváre, Zochová chata, Lamač, Jur, Limbach, Šenkvice, Častá, Borinka, Jabloňové, Kuchyňa, Kostolište, Láb, Lozorno, Malacky, Modra Devín, Karlová Ves, Viničné, Dubová, Gajary, Nová Dedinka, Rusovce, Stupava, Zohor, Moravský Ján, Plavecký Mikuláš

Date	Time	Location	Latitude	Longitude	Intensity (MCS)	Felt at
					3.5° 4° 3.5°	Dunajská Streda, Nové Zámky, Hlohovec, Foreshock: 02 09 Bratislava, Štefanová, Ivánka pri Dunaji, Chorvatský Grob, Senec, Vysoká pri Morave, Trnava, Dobrá Voda, Dolná Krupa, Sekule, Sološnica, Bahon Stupava, Malacky, Kuchyňa, Borinka, Jur, Modra, Častá
1965						
Date	Time	Location	Latitude	Longitude	Intensity (MCS)	Felt at
March 12	07 15	East Slovakia	47.7° N	21.5° E	I_0= 3.5° 3.5°	Trnávka, Slančík

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