

BULLETIN  
OF THE SLOVAK  
SEISMOGRAPHIC  
STATIONS  
BRATISLAVA  
ŠROBÁROVÁ  
HURBANOV  
AND  
SKALNATÉ PLESO  
FOR THE YEAR 1967



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# Bulletin of the Slovak Seismographic Stations Bratislava, Šrobárová, Hurbanovo and Skalnaté Pleso for the Year 1967

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## Introduction

The seismological bulletin for the year 1967 contains the results of the interpretation of records from the network of seismograph stations on the territory of Slovakia: Bratislava (central station), Šrobárová, Hurbanovo and Skalnaté Pleso. The seismographic station at Skalnaté Pleso was not operational until June 1967, because the building of the Astronomical Observatory, where the seismograph station is situated, was under reconstruction.

The records from the network are collected at the Geophysical Institute of the Slovak Academy of Sciences in Bratislava, where they are analysed. 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 in 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 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. 4, 1967; Bulletin of BCIS, 1967, and Ten-day Bulletin of the Academy of Sciences of the U.S.S.R., Institute of Physics of the Earth, Moscow, 1967. 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 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 four times per day at 0 h, 06 h, 12 h, and 18 h G. M. T. 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 to peak, halved and the corresponding ground motion given to  $0.1 \mu\text{m}$ .

Beginning with the year 1967 the Geophysical Institute of the Slovak Academy of Sciences will publish in the seismological bulletin abstracts of papers written by Slovak authors dealing with seismology.

The ten-day preliminary bulletins for Bratislava and Šrobárová were prepared by Mrs. K. Mrázová 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 authors have been in different parts assisted by Mrs. A. Weihsová, Mrs. B. Miková and Mrs. I. Bochníčková.

Bratislava, October 1972

K. Mrázová

#### List of Abbreviations Used in this Bulletin

Ts	seismograph free period
Tg	galvanometer free period
Vo	static magnification
Vm	max. dynamic magnification
$\epsilon : 1$	damping ratio
Ds	seismograph damping
Dg	galvanometer damping
r	max. deviation due to friction
$\sigma^2$	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 G. M. T.
i	impulsive beginning of a phase
e	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  
mPH, mPV, mPPH, mPPV, mSH

magnitudes based on body wave amplitudes  
magnitudes based on surface 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 1967

Bratislava: "VEGIK", electromagnetic seismograph with galvanometric registration

#### Constants

Component	Ts	Tg	Ds	Dg	$\sigma^2$	Tm	Vm	Paper speed
Z	1.8	1.9	0.8	1.1	0.11	1.1	4110	20 mm/min
N	2.0	1.9	0.9	1.0	0.10	1.1	2260	20 mm/min
E	2.0	1.9	0.9	1.1	0.10	1.1	2190	20 mm/min

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

#### Constants

Component	Ts	Tg	Ds	Dg	$\sigma^2$	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)	$\epsilon : 1$	Paper speed
January	N	8.8	41	0.1	3.9	30 mm/min
	E	10.4	51	0.2	4.8	
February	N	8.8	41	0.1	3.9	
	E	10.4	51	0.2	4.8	
March	N	8.2	45	0.2	4.4	
	E	10.5	53	0.3	3.8	
April	N	7.7	46	0.0	5.5	
	E	10.7	54	0.1	3.7	
May	N	7.7	44	0.2	4.5	
	E	10.7	51	0.1	3.9	
June	N	7.7	46	0.3	4.1	
	E	11.0	56	0.2	4.2	
July	N	7.4	50	0.7	4.2	
	E	11.0	49	0.6	4.6	
August	N	7.4	50	0.7	4.2	
	E	11.0	49	0.6	4.6	
September	N	7.4	48	0.1	3.6	
	E	10.8	53	0.6	4.1	
October	N	7.4	52	0.1	5.0	
	E	10.9	51	0.9	4.1	
November	N	7.4	52	0.1	5.0	
	E	10.9	51	0.9	4.1	
December	N	7.4	45	0.3	3.9	
	E	10.8	49	0.8	4.2	

Skalnaté Pleso: "VEGIK", electromagnetic seismograph with galvanometric registration

#### Constants

Component	Ts	Tg	Ds	Dg	$\sigma^2$	Vm	Paper speed
Z	1.9	1.9	0.97	0.90	0.12	3860	60 mm/min

## List of Seismic Phases Used in this Bulletin

Phase	Description
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 boundary
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	P and S waves reflected and transformed at the Earth's surface
PSPS, PPSS, SPSP etc.	
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 amplitude in the surface wave group (on the vertical or horizontal component)

### List of Quoted Agencies Reporting Epicentral Parameters

Code	Agency
ATH	Athens. Seismological Institute, National Observatory, Athens
BEO	Belgrade. Seismological Institute, Belgrade
BCIS	Bureau Central International de Seismologie, Strasbourg
ICS	International Seismological Centre, Edinburgh
LJU	Ljubljana. Astronomical and Geophysical Observatory, University of Ljubljana, Ljubljana
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
UPP	Uppsala, Seismological Institute, Uppsala
USAEC	U. S. Atomic Energy Commission, Washington
USCGS	U. S. Coast and Geodetic Survey, U. S. Department of Commerce, Washington Science Centre
VIE	Vienna, Zentralanstalt für Meteorologie und Geodynamik, Wien
WAR	Warsaw, Geophysical Institute of the Polish Academy of Sciences, Warsaw

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Earthquake Observations  
at the Station Bratislava

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Bratislava

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	+iPKIKP iPKP2 ipPKIKP	07	25	27.5	+2.5	Tonga 15.16°S 173.64°W H = 07 05 48 s, h = 23 km, Mag = 5.9 (ISC). MLH (MOS) = 6½, Dc = 145.91°, Az = 18.74°.
1	iPKIKP	09	04	21.2	+2.8	West of Tonga 20.55°S 178.15°W H = 08 45 36.6 s, h = 553 km, Mag = 4.6 (ISC). Dc = 149.82°, Az = 29.38°.
1	iPKIKP	22	18	16.5	+2.5	Santa Cruz Islands 11.07°S 165.57°E H = 21 58 54.1 s, h = 5 km, Mag = 5.3 (ISC). MLH (MOS) = 5 ¾, Dc = 134.57°, Az = 46.11°.
2	eP	08	23	27	+2.7	Near Coast of Libya 32.44°N 22.62°E H = 08 19 37 s, h = 33 km, Mag = 4.6 (ISC). MLH (MOS) = 5, Dc = 16.26°, Az = 163.12°.
2	iPKIKP iSKP	20	19	18.6	+2.3	Santa Cruz Islands 12.36°S 166.39°E H = 19 59 58.3 s, h = 34 km, Mag = 5.3 (ISC). MLH (MOS) = 5 ¾, Dc = 105.28°, Az = 91.50°.
3	ePKIKP	05	55	11	+8.5	Santa Cruz Islands 11.07°S 165.67°E H = 05 35 44.8 s, h = 18 km, Mag = 5.2 (ISC). Dc = 134.62°, Az = 45.99°.
3	ePKIKP ePP iPKS	21	42	40	+0.2	Santa Cruz Islands 12.40°S, 166.41°E H = 21 23 22.2 s, h = 37 km, Mag = 5.1 (ISC). MLH (MOS) = 5 ½, Dc = 136.13°, Az = 46.02°.
4	eP iPP eS Lm	06	01	25	-1.1	Greece 38.37°N 22.04°E H = 05 58 52.5 s, h = 1 km, MLH (BRA) = 4.0, Dc = 10.43°, Az = 158.07°, LmH: 3.0 s 0.37 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
4	+iP	20	27	31	-1.0	Near Coast of Venezuela 10.93°N 62.52°W H = 20 15 59.0 s, h = 94 km, Dc = 75.03°, Az = 269.69°.
5	iP iS Lm	00	24 31 01	05 35 30	-0.3 -4.0	Mongolia 38.22°N 102.90°E H = 00 14 40.1 s, h = 24 km, Mag = 6.1 (ISC). MLH (MOS) = 7 1/2, Dc = 54.19°, Az = 55.33°.
5	eiP eiPP eiPcP	10	15 17 17	38 14 44	+0.1 -1.0 +3.0	Kirgiziya 39.31°N 72.74°E H = 10 08 02.6 s, h = 41 km, Mag = 5.1 (ISC). MLH (MOS) = 5 1/2, Dc = 40.37°, Az = 81.38°.
6	eP	00	07	45	-0.8	Mongolia 48.16°N 102.93°E H = 23 58 18 s, h = 11 km, Mag = 5.4 (ISC). MLH (MOS) = 5 1/2, Dc = 54.24°, Az = 55.38°.
6	+iP isP	00	16	46	+1.3	Hokkaido, Japan Region 41.80°N 143.39°E H = 00 04 03.9 s, h = 41 km, Mag = 5.6 (ISC). MLH (MOS) = 5 1/2, Dc = 78.64°, Az = 37.94°.
7	ePKIKP	00	46	25	-0.8	Southeast Indian Ridge 48.80°S 112.76°E H = 00 27 23 s, h = 15 km, Mag = 5.4 (ISC). MLH (MOS) = 5 1/2, Dc = 126.94°, Az = 124.59°.
7	ePKIKP	17	00	20	-0.5	Santa Cruz Islands 11.92°S 166.04°E H = 16 41 03.9 s, h = 37 km, Mag = 4.9 (ISC). MLH (MOS) = 5 1/2, Dc = 135.53°, Az = 46.14°.
9	+iP	02	02	11	+0.4	Southern Persia 27.64°N 54.48°E H = 01 55 14 s, h = 23 km, Mag = 5.2 (ISC). MLH (MOS) = 5, Dc = 35.44°, Az = 111.75°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
10	e	10	43	56		
10	e	11	02	29		
11	iP ipP iPP	11	26 26 26	12 23.4 57	-0.6 +0.3	Persia-Iraq Border Region 34.09°N 45.67°E H = 11 20 46.1 s, h = 39 km, Mag = 5.6 (ISC). MLH (MOS) = 5 1/4, Dc = 25.53°, Az = 112.94°.
12	iPg iSg	10	58 58	40.2 43.7		Slovakia Explosion. Δ = 30 km.
13	ePKIKP	14	07	22	-0.8	Solomon Islands 10.59°S 161.37°E H = 13 48 08 s, h = 9 km, Mag = 5.6 (ISC). MLH (MOS) = 5 3/4, Dc = 132.06°, Az = 50.66°.
14	e	07	39	10		
14	e	10	16	31		
14	e	11	02	30		
14	eP	12	16	49	+0.6	Rat Islands, Aleutian Islands 52.10°N 175.40°E H = 12 04 50.4 s, h = 35 km, Mag = 5.2 (ISC). MLH (MOS) = 5, Dc = 78.41°, Az = 13.47°.
15	eP	20	08	08	-0.2	Lake Baikal Region 55.65°N 110.85°E H = 19 58 42.6 s, h = 13 km, Mag = 5.1 (ISC). MLH (MOS) = 5 1/4, Dc = 54.04°, Az = 44.33°.
16	eiPKIKP	14	45	47	+3.8	Santa Cruz Islands 11.27°S 165.72°E H = 14 26 22 s, h = 2 km, Mag = 5.3 (ISC). MLH (MOS) = 6, Dc = 134.81°, Az = 46.07°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
17	iPP	01	25	17	-6.2	Santiago del Estero Prov., Arg. 27.32°S 63.24°W H = 01 07 54.2 s, h = 586 km, Mag = 5.6 (ISC). Dc = 103.84°, Az = 244.60°.
17	-iP epP ePP Lm	12	11	44.6	+1.0	Near East Coast of Honshu, Japan 38.33°N 142.20°E H = 11 59 31.5 s, h = 39 km, Mag = 5.9 (ISC). MLH (MOS) = 6 3/4, mPV (BRA) = 6.2, MLH (BRA) = 7.1, Dc = 81.02°, Az = 40.65°. PV: 1.6 s 0.52 μm, LmH: 18 s 79 μm.
18	+iP iPcP iPPP eS Lm	05	44	28.5	+1.4	Eastern Russia 56.68°N 120.95°E H = 05 34 32 s, h = 5 km, Mag = 6.0 (ISC). MLH (MOS) = 7, mPV (BRA) = 6.5, MLH (BRA) = 6.7, Dc = 57.92°, Az = 39.23°. PV: 1.6 s 0.67 μm, LmH: 8.0 s 25 μm.
18	-iP isP	08	30	27	+0.1	Fox Islands, Aleutian Islands 52.55°N 168.24°W H = 08 18 22.3 s, h = 33 km, Mag = 5.7 (ISC). MLH (MOS) = 5 3/4, mPH (BRA) = 5.9. Dc = 79.56°, Az = 3.32°. PH: 1.6 s 0.1 μm.
18	eP	21	58	50	-0.4	Mongolia 48.10°N 102.96°E H = 21 49 22 s, h = 5 km, Mag = 5.2 (ISC). MLH (MOS) = 5 3/4, Dc = 54.29°, Az = 55.43°.
19	ePb ePn iSg	09	01	43		Slovakia (Little Carpathians) MLgH (BRA) = 2.5. LgH: 1.4 s 2.5 μm.
19	ePKIKP epPKIKP esPKIKP	12	57	33	+0.2	Santa Cruz Islands 11.83°S 166.45°E H = 12 38 31.4 s, h = 158 km, Mag = 5.5 (ISC). MLH (MOS) = 6 3/4, Dc = 135.66°, Az = 45.57°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
19	iPKIKP	12	59	45	-2.2	Fiji Region 14.83°S 178.75°W H = 12 40 14.7 s, h = 33 km, Mag = 6.3 (ISC). Dc = 144.27°, Az = 26.90°.
19	-iP	14	53	50	+0.3	Fox Islands, Aleutian Islands 52.37°N 169.57°W H = 14 41 34.6 s, h = 34 km, Mag = 5.2 (ISC). Dc = 79.68°, Az = 4.15°.
20	+iP i iPPP Lm	02	06	48	-0.3	Mongolia 48.08°N 103.02°E H = 01 57 21.6 s, = 21 km, Mag = 6.3 (ISC). MLH (MOS) = 7, mPV (BRA) = 6.6, MLH (BRA) = 7.2, Dc = 54.34°, Az = 55.42°. PV: 1.6 s, 0.78 μm, LmH: 9.0 s 83 μm.
21	ePKIKP	03	13	42	-10.2	Easter Island Cordillera 49.71°S 114.9°W H = 02 54 12 s, h = 32 km, Mag = 5.4 (ISC). Dc = 148.86°, Az = 248.87°.
24	+iP iPcP ipP	03	17	35	+1.5	Hokkaido, Japan Region 41.53°N 142.08°E H = 03 05 39.0 s, h = 64 km, Mag = 5.7 (ISC). MLH (MOS) = 5 1/2, mPV (BRA) = 5.9, Dc = 78.32°, Az = 38.92°. PV: 1.6 s 0.18 μm.
24	+eP ipP iPcP iPP ePS Lm	09	39	09	-4.5	Central Mid-Atlantic Ridge 0.8°S 20.8°W H = 09 29 17.1 s, h = 43 km, Mag = 5.2 (ISC). MLH (MOS) = 6 3/4, mPV (BRA) = 5.7, MLH (BRA) = 6.5, Dc = 58.81°, Az = 225.90°. PV: 1.4 s 0.1 μm. LmH: 12.0 s 22 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
25	iP	01	57	37	-0.2	Afghanistan-USSR Border Region
	ipP		58	29	+1.0	36.71°N 71.60°E
	i!sP		59	06	+1.0	H = 01 50 19.4 s, h = 275 km,
	iPP		59	23	-0.9	Mag = 5.7 (ISC). mPV (BRA) = 5.8,
	i!sPP	02	00	41	-2.0	Dc = 41.01°, Az = 85.48°.
						PV: 1.6 s 0.78 μm.
26	eP	20	31	37	-1.8	Near Coast of Michoacan, Mexico
						19.0°N 103.1°W
						H = 10 18 24 s, h = 60 km,
						Mag = 4.2 (ISC).
						Dc = 94.51°, Az = 304.90°.
27						The apparatus was not operational.
28	-iP	14	05	01.5	-0.8	Fox Islands, Aleutian Islands
	ipP		05	19	+1.7	52.40°N 169.54°W
	iS		15	03	+1.7	H = 13 52 58.3 s, h = 42 km,
	Lm		32.5			Mag = 6.0 (ISC). MLH (MOS) = 7,
						mPV (BRA) = 6.1,
						Dc = 79.65°, Az = 4.13°.
						PV: 1.2 s 0.24 μm.
28	eP	14	18	01		Fox Islands, Aleutian Islands
						52.29°N 169.51°W
						H = 14 05 57 s, h = 39 km,
						Mag = 5.1 (ISC).
						Dc = 79.76°, Az = 4.12°.
28	iP	14	19	18		No determination of epicentre.
28	eP	14	35	29	-1.4	Fox Islands, Aleutian Islands
						52.45°N 169.58°W
						H = 14 23 26 s, h = 47 km,
						Mag = 5.1 (ISC).
						Dc = 79.60°, Az = 4.15°.
28	eP	14	42	30	-2.6	Fox Islands, Aleutian Islands
						52.61°N 169.48°W
						H = 14 30 26.8 s, h = 44 km,
						Mag = 4.9 (ISC).
						Dc = 79.44°, Az = 4.08°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
28	+iP iPcP	16	43	25	-2.1	Fox Islands, Aleutian Islands
			43	34	-1.1	52.32°N 169.33°W
						H = 16 31 21.6 s, h = 32 km,
						Mag = 5.3 (ISC). MLH (MOS) = 5½,
						mPV (BRA) = 5.9,
						Dc = 79.74°, Az = 4.01°.
						PV: 1.4 s 0.18 μm.
28	iP	17	31	39	+1.1	Fox Islands, Aleutian Islands
						52.27°N 169.50°W
						H = 17 19 32.5 s, h = 36 km,
						Mag = 5.0 (ISC). MLH (MOS) = 5½,
						Dc = 79.78°, Az = 4.12°.
28	+iP ipP	17	54	05	0.0	Fox Islands, Aleutian Islands
			54	19.8		52.36°N 169.38°W
						H = 17 42 01.6 s, h = 49 km,
						Mag = 5.5 (ISC). MLH (MOS) = 6,
						mPV (BRA) = 6.1,
						Dc = 79.70°, Az = 4.04°.
						PV: 1.6 s 0.41 μm.
29	iPn i iSn	00	12	45.4	-0.5	Austria
			12	52.9		47.89°N 14.20°E
			13	10.8	-3.7	H = 00 12 13.0 s, h = 17 km,
						Mag = 4.6 (ISC). MLH (BRA) = 4.6,
						Dc = 1.97°, Az = 262.95°.
						LmH: 3.0 s 21 μm.
29	eP	08	03	46	+0.6	Southern Persia
						26.54°N 55.21°E
						H = 07 56 40 s, h = 34 km,
						Mag = 5.1 (ISC). MLH (MOS) = 5½,
						Dc = 36.68°, Az = 112.25°.
30	eP ePP	01	25	09	-0.6	Western Caucasus
			25	30	-1.0	41.09°N 44.31°E
						H = 01 20 28.7 s, h = 11 km,
						Mag = 5.0 (ISC). MLH (MOS) = 5¼ - 5½,
						mPV (BRA) = 5.2,
						Dc = 20.55°, Az = 100.03°.
						PV: 1.6 s 0.21 μm.
30	eP	12	29	27	-1.5	Turkey
						39.41°N 41.49°E
						H = 12 25 04.1 s, h = 76 km,
						Dc = 19.59°, Az = 107.50°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
31	e	11	01	44		
31	eP	13	50	59	+0.5	Off Coast of Central America 2.78°N 84.37°W H = 13 37 34.7 s, h = 36 km, Mag = 5.4 (ISC). Dc = 95.58°, Az = 280.41°.
31	eP	17	55	55	+0.5	Hokkaido, Japan Region 42.87°N 145.48°E H = 17 43 57.2 s, h = 51 km, Mag = 5.2 (ISC). MLH (MOS) = 4½, Dc = 78.58°, Az = 36.02°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP	01	14	27	+0.2	Southern Persia 26.58°E 55.27°E H = 01 07 20.0 s, h = 22 km, Mag = 4.9 (ISC). MLH (MOS) = 5, Dc = 36.68°, Az = 112.14°.
1	eP epP	15	32	59	+1.0 -0.6	Southern Sumatra 4.80°S 103.11°E H = 15 19 59.6 s, h = 60 km, Mag = 5.3 (ISC). Dc = 90.87°, Az = 96.16°.
2	eP eP	07	45	41	-2.3 -1.3	Southern Sinkiang Province, China 39.76°N 75.33°E H = 07 37 57.3 s, h = 52 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, Dc = 41.84°, Az = 79.21°.
2	eP	16	36	15	-0.3	Hokkaido, Japan Region 41.56°N 139.84°E H = 16 24 39.7 s, h = 182 km, Mag = 5.3 (ISC). Dc = 77.33°, Az = 40.32°.
3	eP	08	29	26	-0.6	Honshu, Japan 36.52°N 138.14°E H = 08 17 04.6 s, h = 19 km, Mag = 4.6 (ISC). MLH (MOS) = 5, Dc = 80.67°, Az = 44.39°.
3	eP ePP	13	00	39	-0.9 -6.6	Java Sea 5.58°S 110.53°E H = 12 48 08.1 s, h = 543 km, Mag = 5.5 (ISC). Dc = 96.41°, Az = 91.18°.
3	iPg	13	46	00		Slovakia Explosion.
4	eP	18	02	09	+0.2	Volcano Islands Region 25.55°N 142.68°E H = 17 49 02.6 s, h = 33 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 91.90°, Az = 47.32°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
5	eP ePP	19 07	05 58	46	-0.5 -1.0	Ascension Island Region 5.52° S 11.46° W H = 18 55 45.7 s, h = 23 km, Mag = 5.1 (ISC). Dc = 59.05°, Az = 213.71°.
7	eP epP	15 05	04 08	52	0.0 +1.0	Alaska Peninsula 56.63° N 157.24° W H = 14 53 12.6 s, h = 52 km, Mag = 5.6 (ISC). MLH (MOS) = 5½, Dc = 75.46°, Az = 356.78°.
8	e	15	28	20		Small local shock.
9	ePn	12	00	19		Czechoslovakia 50.48° N 13.95° E Explosion of 5.8 Tons. H = 12 00, PRU. Dc = 3.10°, Az = 319.45°.
9	iPn i i i iSg i! Lm	14 10 10 11 11 13 13 14	25.3 43 01.5 31 10 33	25.3 43 01.5 31 10 33	-0.8      +7.7	Greece-Albania Border Region 39.92° N 20.26° E H = 14 08 18.2 s, h = 1 km, Mag = 5.6 (ISC). MLH (MOS) = 5½, MLH (BRA) = 5.2, Dc = 8.55°, Az = 163.46°. LmH: 3.0 s 6.5 μm.
9	iP iPcP iSeS Lm	15 16	37 37 48 17	37 55 25	-1.4 -1.0 -1.0	Colombia 2.93° N 74.83° W H = 15 24 45.3 s, h = 36 km, Mag = 6.3 (ISC). MLH (MOS) = 7, MLH (BRA) = 7.2, Dc = 89.13°, Az = 273.39°. LmH: 20.0 s 95 μm.
10	ePb e eSb	06	48 48 48	18 24 25		Austria 47.7° N 16.0° E H = 06 48 (VIE). Dc = 0.88°, Az = 238.17°.
10	e	12	22	01		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
11	eP	02	51	32	+0.7	Off East Coast of Kamchatka 51.70° N 159.50° E H = 02 39 49.2 s, h = 34 km, Mag = 5.0 (ISC). Dc = 75.44°, Az = 23.10°.
11	eP	09	37	01	+4.5	Lake Baikal Region 56.16° N 106.48° E H = 09 27 34.0 s, h = 26 km, Dc = 53.87°, Az = 49.70°.
11	eP	15	37	49	-1.8	Greenland Sea 79.56° N 3.8° E H = 15 31 27.9 s, h = 41 km, Mag = 5.0 (ISC). Dc = 31.87°, Az = 355.44°.
13-14						The apparatus was not operational.
14	iP	14	44	43	-0.3	Sicily 38.45° N 15.06° E H = 14 42 26.2 s, h = 258 km, Mag = 4.2 (ISC). Dc = 9.83°, Az = 189.44°.
14	ePKIKP	18	33	03	+6.3	Tonga 18.89° S 173.09° W H = 18 13 24 s, h = 101 km, Mag = 4.7 (ISC). Dc = 149.65°, Az = 19.36°.
15	e	02	53	03		
15	eP epP	06 08	08 29		-0.8 -2.5	Burma 20.33° N 93.99° E H = 05 57 30.5 s, h = 51 km, Mag = 5.4 (ISC). MLH (MOS) = 5½, Dc = 66.48°, Az = 85.43°.
15	ePg	13	55	07		Slovakia Probably explosion.
15	ePg eSg	15 34	34 57	54		Slovakia Probably explosion. D = 30 km.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
15	+iP	16	23	33.5	-1.8	Peru-Brazil Border Region 9.05° S 71.34° W
	ipP		25	43	-2.7	H = 16 11 11.8 s, h = 598 km,
	ePP		27	37	-2.0	Mag = 6.1 (ISC).
	isPP		30	39	0.0	Dc = 95.63°, Az = 262.81°.
	eS		33	54	-3.6	
17	+iPKIKP iPKP2 iPP	10	30	40.6	-0.6	Tonga Region 23.79° S 175.14° W
			31	00	-5.0	H = 10 10 52 s, h = 21 km,
			34	30	-10.0	Mag = 6.1 (ISC). MLH (MOS) = 6½, Dc = 153.79°, Az = 26.11°.
19	eP	22	28	23	+6.8	South of Java 9.12° S 113.04° E
	ePP		32	21	-5.0	H = 22 14 36.4 s, h = 88 km,
	epPP		32	53	0.0	Mag = 5.9 (ISC). MLH (MOS) = 5¾-6, Dc = 100.68°, Az = 91.72°.
20	eP	15	26	57	+0.2	Eastern Kashmir 33.63° N 75.33° E
						H = 15 18 39.0 s, h = 20 km, Mag = 5.5 (ISC). MLH (MOS) = 5½, Dc = 45.29°, Az = 86.56°.
21	eP	04	27	45	-1.8	Mona Passage 19.14° N 67.97° W
						H = 04 16 21.4 s, h = 44 km, Mag = 5.2 (ISC). Dc = 72.76°, Az = 279.52°.
21	e	11	58	32		
22	e	10	58	10		
22	ePKIKP iPKP2 iPKS	18	46	09	-0.5	New Hebrides 19.53° S 169.03° E
			46	12	+2.0	H = 18 26 47.5 s, h = 96 km,
			49	42	-3.0	Mag = 5.7 (ISC). MLH (MOS) = 5½, Dc = 143.51°, Az = 48.28°.
23	ePn	22	39	58	-1.6	Yugoslavia 43.85° N 16.0° E
						H = 22 38 54 s, h = 63 km, Mag = 4.0 (BEO). Dc = 4.38°, Az = 190.51°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
24	ePn	15	22	18	+0.7	Yugoslavia 43.8° N 17.9° E
						H = 15 21 11 s, h = 55 km, Mag = 4.4 (BEO). Dc = 4.40°, Az = 172.48°.
26	-iP	04	05	28	-0.3	Eastern Kazakhstan 49.79° N 78.14° E
						H = 03 57 57.8 s, h = 0 km, Mag = 6.0 (ISC). Dc = 39.12°, Az = 63.99°.
27	ePn e	21	02	35	+1.0	Romania 44.86° N 26.69° E
			05	14		H = 21 00 42 s, h = 32 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 7.39°, Az = 113.03.
28	eP esP	09	49	56	+0.6	South of Honshu, Japan 32.68° N 141.67° E
			50	07	+1.0	H = 09.37 19 s, h = 25 km, Mag = 5.3 (ISC). MLH (MOS) = 6, Dc = 85.47°, Az = 44.15°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP	10	19	52	-1.7	Southern Persia 28.09°N 56.90°E H = 10 12 53.3 s, h = 80 km, Mag = 5.1 (ISC). MLH (MOS) = 4½, Dc = 36.64°, Az = 108.64°.
1	eP	22	28	36	-0.9	Andreanof Islands, Aleutian Islands 51.24°N 179.28°W H = 22 16 35 s, h = 71 km, Mag = 5.2 (ISC). MLH (MOS) = 4½, Dc = 79.98°, Az = 10.37°.
2	eP esP	03 01	00 24	36 24	-1.5 +1.0	Ecuador 0.16°S 78.60°W H = 02 47 32.5 s, h = 122 km, Mag = 5.8 (ISC). mPV (BRA) = 5.6, Dc = 93.93°, Az = 274.14°. PV: 1.2 s 0.04 μm.
2	eP ePcP	20 59	59	22.6 32	+2.3 -5.0	Off East Coast of Kamchatka 52.34°N 160.64°E H = 20 47 38 s, h = 17 km, Mag = 4.9 (ISC). MLH (MOS) = 5, Dc = 75.15°, Az = 22.16°.
2	eP ePcP	23 15	15	16 43	+1.8 +2.3	Near East Coast of Kamchatka 53.69°N 160.56°E H = 23 03 44.2 s, h = 57 km, Mag = 5.2 (ISC). Dc = 73.90°, Az = 21.63°.
3	iPg	12	02	41		Slovakia Probably explosion. Vienna: iPg 12 02 57.6.
4	eP i	05	21	36 40.5	0.0	Taiwan Region 21.40°N 121.89°E H = 05 09 24.6 s, h = 134 km, Mag = 5.4 (ISC). Dc = 83.67°, Az = 65.03°.
4	-iPKIKP iPKP2 epPKP2 ePP	06	35 35 36 39	40.3 47.8 42 24	+1.6 -1.0 -2.0 +7.0	Tonga 18.45°S 175.38°W H = 06 16 21.8 s, h = 219 km, Mag = 5.4 (ISC). MLH (MOS) = 5½, Dc = 148.66°, Az = 23.24°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
4	iPn Lm	18	00 07.5	36.6	-1.6	Aegean Sea 39.25°N 24.60°E H = 17 58 09.0 s, h = 60 km, Mag = 6.0 (ISC). MLH (MOS) = 6¾, MLH (BRA) = 6.7, Dc = 10.43°, Az = 145.98°. Lm: 8.0 s 430 μm.
4	eP e(Sg)	18	40 43	45 54	+10.0	Aegean Sea 38.99°N 24.80°E H = 18 38 1.0 s, h = 15 km, Mag = 4.7 (ISC). Dc = 10.73°, Az = 145.92°.
5	iPn	17	24	36	-0.7	Roumania 45.80°N 26.78°E H = 17 22 55.2 s, h = 140 km, Mag = 4.4 (ISC). Dc = 7.03°, Az = 106.11°.
6	eP epP	04	52 53	01 52	-3.4 0.0	South of Honshu, Japan 30.64°N 137.82°E H = 04 40 17.9 s, h = 486 km, Mag = 5.1 (ISC). Dc = 85.30°, Az = 48.03°.
6	ePKIKP ePKP2	08	31 31	29 40	+8.9 -1.2	South of Fiji 22.91°S 177.31°W H = 08 11 59.1 s, h = 232 km, Mag = 4.7 (ISC). Dc = 152.30°, Az = 29.59°.
6	-iP ipP	11	40 41	53 06	+0.5 -1.0	Off West Coast of Northern Sumatra 3.82°N 95.82°E H = 11 28 49 s, h = 54 km, Mag = 5.2 (ISC). Dc = 79.64°, Az = 95.88°.
7	ePn ePg eSn eSg	08	01 02 02 03	47 03.5 46.6 12.5	-3.6 -6.0 -17.6 +0.5	Yugoslavia 43.52°N 17.43°E H = 08 00 36.7 s, h = 53 km, Mag = 4.6 (ISC). Dc = 4.66°, Az = 177.09°.
9	iPg iSg	15	34 37	57.6 09.1		Slovakia Probably explosion. D = 20 km.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
9	iPg	15	36	27.6		Slovakia Probably explosion. D = 20 km.
9	ePKP2	18	18	11	+4.2	Tonga 15.7°S 175.3°W H = 17 58 25 s, h = 17 km, Mag = 4.5 (ISC). Dc = 146.05°, Az = 21.74°.
9	ePKP2	18	47	05	+15.7	Tonga 15.8°S 175.4°W H = 18 27 10.8 s, h = 37 km, Mag = 4.5 (ISC). Dc = 145.93°, Az = 21.86°.
10	iPg i i	04	22	01.4 02.8 06		Near Earthquake Vienna: eiPn 04 22 15.3.
11	eP	14	58	00	+1.1	Veracruz State, Mexico 19.23°N 95.74°W H = 14 44 56 s, h = 4 km, Mag = 5.3 (ISC). Dc = 90.14°, Az = 299.45°.
12	eP	03	03	50.3	-2.9	Hokkaido, Japan Region 42.67°N 143.19°E H = 02 52 04.6 s, h = 114 km, Mag = 5.2 (ISC). Dc = 77.83°, Az = 37.57°.
12-13						The apparatus was not operational.
13	eP	07	34	47	+3.8	Red Sea 19.60°N 38.74°E H = 07 28 05 s, h = 31 km, Mag = 5.5 (ISC). Dc = 33.45°, Az = 140.91°.
13	iSg	11	24	31.3		Czechoslovakia 50.58°N 14.05°E H = 11 22 (PRU) Explosion of 37.7 Tons. Dc = 3.13°, Az = 321.55°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
13	iP	19	28	56.6	-0.6	Red Sea 19.68°N 38.75°E H = 19 22 20 s, h = 31 km, Mag = 5.6 ISC. MLH (MOS) = 6, mPV (BRA) = 5.9, Dc = 33.38°, Az = 140.82°. PV: 1.6 s 0.26 μm.
14	+iP	07	08	19	+3.0	India-China Border Region 28.41°N 94.29°E H = 06 58 4.4 s, h = 20 km, Mag = 5.7 (ISC). Dc = 60.16°, Az = 78.70°.
14	eP	07	57	10	+1.6	Franz Joseph Land 82.38°N 39.1°E H = 07 50 14.9 s, h = 13 km, Mag = 4.7 (ISC). MLH (MOS) = 5½, MLH (BRA) = 5.2, Dc = 35.01°, Az = 4.99°. LmH: 3.0 s 0.7 μm.
15	eSn	03	41	24		Yugoslavia 44°N 17.50°E H = 03 39.5 (BCIS). Dc = 4.18°, Az = 176.08°.
16	ePKIKP	12	29	16	+5.9	Loyalty Islands Region 22.10°S 170.56°E H = 12 09 37.8 s, h = 64 km, Mag = 5.4 (ISC). Dc = 146.44°, Az = 48.56°.
17	e	01	53	13		
19	iPKIKP iPP	01	29	11 49	+0.7 +1.8	Banda Sea 6.73°S 129.84°E H = 01 10 48.2 s, h = 80 km, Mag = 6.0 (ISC). Dc = 110.09°, Az = 77.25°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
19	iP	04	13	36.0	-0.1	Kurile Islands 45.53°N 151.11°E H = 04 01 38.5 s, h = 38 km, Mag = 5.8 (ISC). MLH (MOS) = 7, MLH (BRA) = 7.0, mPH (BRA) = 6.2, Dc = 78.38°, Az = 31.08°. PH: 1.6 s 0.22 μm. LmH: 16.0 s 63 μm.
	i		13	39	-0.8	
	ePcP		13	46	+4.0	
	eS		23	31.4		
20	iP	13	43	33	+1.8	Kurile Islands 45.51°N 151.39°E H = 13 31 33.8 s, h = 46 km, Mag = 5.6 (ISC). MLH (MOS) = 6. Dc = 78.49°, Az = 30.91°.
20	iP	13	52	49	-1.5	Kurile Islands 45.46°N 151.58°E H = 13 40 51.2 s, h = 35 km, Mag = 5.4 (ISC). MLH (MOS) = 5½, Dc = 78.60°, Az = 30.82°.
20	iP	14	04	06	+1.2	Kurile Islands 45.39°N 151.59°E H = 13 52 03.7 s, h = 23 km, Mag = 5.8 (ISC). MLH (MOS) = 5¾, Dc = 78.67°, Az = 30.85°.
20	eP	14	56	16	+0.3	Kurile Islands 45.37°N 151.60°E H = 14 44 17.3 s, h = 46 km, Mag = 4.9 (ISC). MLH (MOS) = 5, Dc = 78.69°, Az = 30.85°.
20	iP	17	23	35	+0.8	Kurile Islands 45.40°N 151.55°E H = 17 11 33 s, h = 23 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 78.64°, Az = 30.87°.
20	iPKIKP	19	27	04	+1.8	Loyalty Islands Region 22.05°S 170.47°E H = 19 07 26.1 s, h = 49 km, Mag = 5.3 (ISC). MLH (MOS) = 5¼, Dc = 146.35°, Az = 48.64°.

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Date	Phase	h	h	s	Res. (O-C)	Remarks
21	ePKIKP	11	44	31	-1.0	Tonga Region 23.97°S 175.01°W H = 11 24 49 s, h = 65 km, Mag = 5.2 (ISC). Dc = 154.0°, Az = 25.98°.
222	ePg eSg	19	16	00	-1.6 +2.3	Northern Italy 46.33°N 12.54°E H = 19 14 49.8 s, h = 0 km (ISC). Dc = 3.61°, Az = 241.09°.
23	ePKP2	00	55	27	+1.0	West of Tonga 16.84°S 177.05°N H = 00 35 38 s, h = 8 km, Mag = 4.6 (ISC). Dc = 146.67°, Az = 25.23°.
24	eP epP iPP ipPP ePS	09	12	50	-3.0	Java 6.01°S 112.33°E H = 09 00 20 s, h = 606 km, Mag = 5.9 (ISC). Dc = 97.93°, Az = 90.14°.
24	e e	12	28	44		
24	iPn iPg iSb iSg Lg	17	39	53	-5.3	Switzerland 46.50°N 7.45°E H = 17 38 14.8 s, h = 13 km, Mag = 4.8 (ISC). MLgH (BRA) = 4.4, Dc = 6.77°, Az = 259.31°. LgH: 2.5 s 1.4 μm.
25	iP ipP	22	59	58	+0.4	Kurile Islands 45.15°N 151.50°E H = 22 47 58.4 s, h = 47 km, Mag = 5.6 (ISC). MLH (MOS) = 6¼, Dc = 78.84°, Az = 31.02°.
27	eP i	08	38	58	+0.8	Western Brazil 8.88°S 71.31°W H = 08 26 35.0 s, h = 609 km, Mag = 5.3 (ISC). Dc = 95.49°, Az = 262.90°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
27	eP epP Lm	09 09 35.5	09 33	21	+0.4 +0.8	Northeastern China 38.56°N 116.61°E, H = 08 58 23.9 s, h = 40 km, Mag = 5.5 (ISC). MLH (MOS) = 6½, MLH (BRA) = 6.0, Dc = 68.01°, Az = 56.5°. LmH: 6.0 s 3.0 μm.
27	ePKIKP	10	21	12	-0.3	New Hebrides 16.38°S 168.07°E H = 10 01 41.9 s, h = 5 km, Mag = 5.4 (ISC). MLH (MOS) = 6½, Dc = 140.36°, Az = 46.91°.
27	-iP	20	00	15	-1.5	Red Sea 19.98°N 38.46°E H = 19 53 44 s, h = 50 km, Mag = 5.1 (ISC). MLH (MOS) = 5, mPH (BRA) = 5.7, Dc = 32.99°, Az = 141.03°. PV: 1.6 s 0.15 μm.
28	eSb eSg	15 54	53 06	57	+10.0 -6.0	Belgium 50.54°N 4.24°E H = 15 49 24.8 s, h = 21 km (ISC), Dc = 8.73°, Az = 290.57°.
28	eP	19	45	07	-0.9	Luzon, Philippine Islands 17.02°N 122.43°E H = 19 32 28.3 s, h = 76 km, Mag = 5.1 (ISC). MLH (MOS) = 5, Dc = 87.32°, Az = 67.48°.
30	iPP	02	26	19	-3.0	South of Bali Island 11.14°S 115.36°E H = 02 08 02.7 s, h = 33 km Mag = 6.0 (ISC). MLH (MOS) = 6½, Dc = 103.71°, Az = 91.41°.
30	eP	08	48	47	+0.9	North of Severnaya Zemlya 85.63°N 85.0°E H = 08 41 05 s, h = 2 km, Mag = 4.7 (ISC). Dc = 40.54°, Az = 6.28°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
30	ePn	13	50	32	-0.6	Yugoslavia 43.49°N 20.95°E H = 13 49 08.0 s, h = 0 km, Mag = 4.5 (BEO). Dc = 5.40°, Az = 148.73°.
30	ePg eSg	15 37	37	44 47		Slovakia Probably explosion.
30	ePKP2	23	24	26	-0.3	West of Tonga 16.96°S 177.02°W H = 23 04 52 s, h = 94 km, Mag = 4.9 (ISC). MLH (MOS) = 5½, Dc = 146.79°, Az = 25.24°.
31	iP	02	24	25	-0.8	Fox Islands, Aleutian Islands 52.08°N 169.70°W H = 02 12 15.2 s, h = 7 km, Mag = 5.2 (ISC). MLH (MOS) = 5, Dc = 79.96°, Az = 4.26°.
31	eP	03	24	58	+0.6	Red Sea 20.03°N 38.41°E H = 03 18 29.2 s, h = 86 km, Mag = 4.9 (ISC). MLH (MOS) = 4½, Dc = 32.93°, Az = 141.06°.
31	+iPKIKP ePP	20 27	24 32	31 32	+0.8 +3.0	New Hebrides 15.34°S 167.52°E H = 20 05 18.9 s, h = 133 km, Mag = 5.2 (ISC). Dc = 139.20°, Az = 46.80°.
31	ePb	23	23	40		Austria 47.7°N 16.0°E H = 23 23 00 (VIE). Dc = 0.88°, Az = 238.17°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	iP epP esP iPP	06	06	16.2	-0.6	Kurile Islands 45.65°N 151.69°E
		06	31.2	-0.6		H = 05 54 19.8 s, h = 49 km, Mag = 5.7 (ISC). MLH (MOS) = 6½, mPV (BRA) = 6.8, Dc = 78.47°, Az = 30.65°. PV: 1.5 s 1.2 μm.
1	eP i i	08	00	26	+0.7	Kurile Islands 45.60°N 151.91°E
		01	04	01		H = 07 48 26.3 s, h = 37 km, Mag = 4.9 (ISC). MLH (MOS) = 5½, Dc = 78.59°, Az = 30.54°.
1	-iP ipP isP i iPP eS	12	35	34.0	+0.7	Kurile Islands 45.56°N 151.62°E
		35	43	-1.4		H = 12 23 34.6 s, h = 36 km, Mag = 5.8 (ISC). MLH (MOS) = 6½, mPV (BRA) = 7.0, Dc = 78.53°, Az = 30.74°. PV: 1.5 s 1.7 μm.
1	eP	12	47	07	-0.8	Iceland 63.64°N 19.06°W
						H = 12 41 41.0 s, h = 2 km, Mag = 4.8 (ISC). Dc = 25.04°, Az = 321.51°.
1	-iP	14	12	33.0	-0.9	Kurile Islands 45.61°N 151.76°E
						H = 14 00 33.5 s, h = 24 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, mPV (BRA) = 6.0, Dc = 78.53°, Az = 30.63°. PV: 1.5 s 0.2 μm.
1	eP	17	33	11	+2.7	Kurile Islands 45.51°N 151.92°E
						H = 17 21 08 s, h = 29 km, Mag = 4.7 (ISC). Dc = 78.67°, Az = 30.58°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
3	eP epP	07	45	04	+0.7	Red Sea 20.00°N 38.40°E
		45	10		-0.6	H = 07 38 28 s, h = 23 km, Mag = 5.1 (ISC). MLH (MOS) = 4½, mPV (BRA) = 5.9, Dc = 32.95°, Az = 141.10°. PV: 1.4 s 0.2 μm.
3	ePKIKP ePKHKP	08	23	13	+0.6	New Britain Region 6.03°S 151.45°E
		23	34		-0.4	H = 08 04 14 s, h = 5 km, Mag = 5.2 (ISC). MLH (MOS) = 5¾, Dc = 122.88°, Az = 57.88°.
3	ePKIKP ePKP2	13	18	25	+4.0	Tonga 20.40°S 173.57°N
		18	34		0.0	H = 12 58 39 s, h = 27 km, Mag = 5.4 (ISC). MLH (MOS) = 6, Dc = 150.98°, Az = 20.99°.
3	iPn iPb iPg eSn iSg	16	37	42.5	-0.5	Northern Italy 44.87°N 10.68°E
		38	02.5		+7.5	H = 16 36 18 s, h = 10 km (ISC). Mag = 4.7 (USCGS). Dc = 5.52°, Az = 235.72°.
4	iP ePcP	04	06	26	+0.2	Kurile Islands Region 45.40°N 152.14°E
		06	38		+2.6	H = 03 54 20 s, h = 3 km, Mag = 5.1 (ISC). MLH (MOS) = 5½, mPV (BRA) = 5.7, Dc = 78.84°, Az = 30.50°. PV: 1.5 s 0.1 μm.
4	eP	17	02	20	+4.9	Crete 35.59°N 23.56°E
						H = 16 59 06.2 s, h = 73 km, Mag = 4.7 (ISC). Dc = 13.45°, Az = 156.80°.
4	iP	18	07	44.7	+0.1	Roumania 45.72°N 26.32°E
						H = 18 06 06.7 s, h = 161 km, Mag = 4.5 (ISC). Dc = 6.77°, Az = 107.80°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
5	iP ePP	02	47 51	46 52	-1.4 +1.0	Marianas Region 20.00°N 147.27°E H = 02 34 07 s, h = 12 km, Mag = 5.8 (ISC). MLH (MOS) = 6; mPV (BRA) = 6.2, Dc = 98.83°, Az = 46.66°. PV: 1.6 s 0.1 μm.
5	ePP	03	05	31	-7.4	Marianas Region 19.97°N 147.28°E H = 02 47 50 s, h = 6 km, Mag = 5.5 (ISC). MLH (MOS) = 5½, Dc = 98.86°, Az = 46.67°.
5	ePKIKP	22	49	05	-0.8	West of Macquarie Island 53.31°S 140.6°E H = 22 29 32 s, h = 23 km, Mag = 5.0 (USCGS). Dc = 144.68°, Az = 120.05°.
6	eP	06	29	57	+1.9	Near South Coast of Honshu, Japan 34.29°N 139.13°E H = 06 17 28.9 s, h = 10 km, Mag = 5.1 (ISC). MLH (MOS) = 5½, Dc = 82.96°, Az = 45.02°.
6	eP	09	02	05	+0.9	Near South Coast of Honshu, Japan 34.28°N 139.16°E H = 08 49 39 s, h = 15 km, Mag = 4.9 (ISC). MLH (MOS) = 5, Dc = 82.98°, Az = 45.00°.
6	eP eiPP	12	35 39	35 44	-1.5 +5.0	Marianas Region 20.05°N 147.24°E H = 21 18 36 s, h = 42 km, Mag = 5.3 (ISC). MLH (MOS) = 5½, Dc = 98.77°, Az = 46.66°.
6	+iP eiPP	13	03 04	38 33	-0.8 +2.0	Southern Persia 29.91°N 51.02°E H = 12 57 15 s, h = 20 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, mPV (BRA) = 5.6, Dc = 31.69°, Az = 112.76°. PV: 1.4 s 0.1 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks	
6	eP ePcP ePP		23	41 41 44	17 26 26	+0.2 -0.2 -3.0	Near South Coast of Honshu, Japan 34.29°N 139.15°E H = 23 28 52.2 s, h = 20 km, Mag = 5.1 (ISC). MLH (MOS) = 5½, Dc = 82.96°, Az = 45.00°.
7	eP epP		17	11 11	20 29	+1.0 -2.1	Turkey 37.43°N 36.17°E H = 17 07 15.4 s, h = 38 km, Mag = 4.8 (ISC). MLH (MOS) = 5, mPV (BRA) = 4.8, Dc = 17.58°, Az = 120.60°. PV: 1.4 s 0.1 μm.
7	-eP iPP ei Lm		18	37 38 39 45.5	37 17.5 21.5	+1.0 -2.0	Turkey 37.36°N 36.24°E H = 18 33 31.2 s, h = 32 km, Mag = 4.9 (ISC). MLH (MOS) = 5½, mPV (BRA) = 4.8, Dc = 17.67°, Az = 120.64°. PV: 1.4 s 0.1 μm.
8	iPKIKP iPKP2 ipPKIKP		05	53 54 56	51 0,0 16	-1.0 +4.0	West of Tonga 19.94°S 178.50°W H = 05 35 16.2 s, h = 605 km, Mag = 5.2 (ISC). Dc = 149.14°, Az = 29.56°.
9	ePP		00	24	25	-7 0	Western New Guinea Region 3.97°S 135.73°E H = 00 05 08.2 s, h = 14 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, Dc = 111.78°, Az = 70.56°.
9	+iPKIKP		09	16	00	+1.2	Solomon Islands 7.30°S 155.88°E H = 08 56 59.8 s, h = 40 km, Mag = 5.1 (ISC). Dc = 126.39°, Az = 54.30°.
9	ePKIKP		21	37	34	-0.3	Solomon Islands 7.35°S 155.81°E H = 21 18 36 s, h = 42 km, Mag = 5.3 (ISC). Dc = 126.39°, Az = 54.41°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
10	ePKIKP epPKIKP epPKP2	00 17 18	17 21 37	02 +0.8 +1.2	-7.0	Tonga Region 17.68°S 172.94°W H = 23 57 28 s, h = 96 km, Mag = 4.9 (ISC). MLH (MOS) = 5½, Dc = 148.50°, Az = 18.56°.
10	ePKIKP	05	18	56	+1.6	Solomon Islands 7.35°S 155.76°E H = 04 59 54.7 s, h = 42 km, Mag = 5.4 (ISC). MLH (MOS) = 5¾, Dc = 126.36°, Az = 54.46°.
10	+iPKIKP	15	21	44	-0.2	Solomon Islands 7.27°S 155.80°E H = 15 02 44.5 s, h = 47 km, Mag = 5.7 (ISC). MLH (MOS) = 6, Dc = 126.32°, Az = 56.36°.
10	iPb iSg	15	51	02 05.6		Slovakia Small local shock or explosion. D = 30 km.
10	ePKP2	17	08	47	+1.6	South Pacific Cordillera 63.71°S 167.5°W H = 16 47 49.8 s, h = 33 km, Mag = 5.4 (USCGS). MLH (MOS) = 6, Dc = 164.22°, Az = 172.45°.
10	eiP	20	08	59	+0.3	Alaska Peninsula 58.50°N 154.26°W H = 19 57 33.6 s, h = 75 km, Mag = 5.3 (ISC). Dc = 73.46°, Az = 172.45°.
10	eiPKP1	22	08	20	+4.3	Solomon Islands 7.31°S 155.88°E H = 21 49 21.3 s, h = 52 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 126.40°, Az = 54.31°.
11	ePP	05	27	14	0.0	Celebes 3.36°S 119.19°E H = 05 09 14 s, h = 30 km, Mag = 5.3 (ISC). MLH (MOS) = 5½, Dc = 100.55°, Az = 83.21°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	iP iS	05 13	03 34	39 +1.0	-1.4	Northern Sumatra 5.16°N 96.31°E H = 04 51 41.8 s, h = 63 km, Mag = 6.1 (ISC). MLH (MOS) = 6¾, Dc = 78.97°, Az = 94.60°.
12	ePKIKP	14	05	03	-0.9	Solomon Islands 7.42°S 155.73°E H = 13 46 04.6 s, h = 38 km, Mag = 5.2 (ISC). MLH (MOS) = 5, Dc = 126.4°, Az = 54.54°.
12	ePKIKP	14	13	54	-0.4	Solomon Islands 7.45°S 155.73°E H = 13 54 58.2 s, h = 62 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, Dc = 126.43°, Az = 54.56°.
12	ePKIKP	15	10	51	-0.6	Solomon Islands 7.54°S 155.83°E H = 14 51 51 s, h = 30 km, Mag = 5.2 (ISC). Dc = 126.56°, Az = 54.51°.
12	eP	19	45	46	-1.8	Northern Sumatra 5.25°N 96.75°E H = 19 33 48 s, h = 62 km, Mag = 5.2 (ISC). Dc = 79.20°, Az = 94.21°.
13	ePKIKP	04	33	51	-3.0	New Hebrides 18.69°S 168.85°E H = 04 14 33.6 s, h = 121 km, Mag = 5.2 (ISC). Dc = 142.71°, Az = 47.79°.
13	eP	08	37	43	+0.7	Northern Sumatra 5.30°N 96.46°E H = 08 25 44 s, h = 67 km, Mag = 5.1 (ISC). MLH (MOS) = 5, Dc = 78.97°, Az = 94.40°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
13	-iP ipP	20	06	06	+0.3 -2.3	Ryukyu Islands 27.32°N 128.66°E H = 19 53 44.3 s, h = 51 km, Mag = 5.9 (ISC). MLH (MOS) = 5½, mPV(BRA) = 5.7, Dc = 83.09°, Az = 56.46°. PV: 1.6 s 0.1 μm.
13	iP	20	12	58	+0.9	Guerrero Mexico 18.58°N 100.08°W H = 19 59 52.9 s, h = 87 km, Mag = 5.5 (ISC). Dc = 93.14°, Az = 302.33.
14	ePP	15	02	16	-4.7	Solomon Islands 7.21°S 155.4°E H = 14 41 18 s, h = 84 km, Mag = 4.9 (ISC). Dc = 126.05°, Az = 54.73°.
15	iPn iPg iSn iSg i	02	09	03	-1.8	Yugoslavia 44.32°N 16.12°E H = 02 08 02.2 s, h = 0 km (ISC). Dc = 3.91°, Az = 190.43°.
16	ePKP2	07	37	53	+2.0	South of Fiji 19.33°S 175.89°E H = 07 18 10 s, h = 22 km, Mag = 5.2 (ISC). Dc = 146.49°, Az = 38.23°.
16	ePKIKP	07	49	34	+10.0	South of Tonga 24.5°S 175.48°W H = 07 29 35.7 s, h = 33 km, Mag = 5.2 (ISC). MLH (MOS) = 5, Dc = 154.36°, Az = 27.31°.
16	eP	10	04	40	-3.4	North of Ascension Island 0,0°N 17.6°W H = 09 55 01 s, h = 33 km, Mag = 4.8 (ISC). Dc = 56.61°, Az = 222.99°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
16	iP iPcP	10	22	07	+0.4 +0.4	Kurile Islands 46.40°N 153.39°E H = 10 10 05 s, h = 12 km, Mag = 5.2 (ISC). MLH (MOS) = 5¼, Dc = 78.38°, Az = 29.23°.
17	ePKIKP ePP	11	37	37	+0.3 -6.0	Santa Cruz Islands 12.50°S 166.24°E H = 11 18 20 s, h = 51 km, Mag = 5.1 (ISC). MLH (MOS) = 5½, Dc = 136.13°, Az = 46.30°.
17	e e	15	05	14		
19	e	04	39	10		
19	e	10	05	50		
19	eP epP esP	22	08	39	-0.6	Dominican Republic Region 18.73°N 69.64°W H = 21 57 05.3 s, h = 108 km, Mag = 5.2 (ISC). Dc = 74.15°, Az = 280.40°.
21	e ePP ePPP	08	32	28	+5.0	Banda Sea 5.45°S 126.77°E H = 08 14 24.5 s, h = 25 km, Mag = 5.4 (ISC). Dc = 107.12°, Az = 78.79°.
21	ePKP2	18	07	24	+8.5	Fiji 15.49°S 179.6°E H = 17 47 58 s, h = 170 km, Mag = 4.2 (ISC). Dc = 144.36°, Az = 29.85°.
22	-iP ePcP e	13	19	39	-0.6 -3.0	Northern Sumatra 5.12°N 96.39°E H = 13 07 38 s, h = 44 km, Mag = 5.4 (ISC). MLH (MOS) = 5 ¾, mPV(BRA) = 5.5, Dc = 79.06°, Az = 94.57°. PV: 1.4 s 0.06 μm.
22	e	13	46	21		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
22	e	15	13	00		
23	eP ePP	09	34	05	-2.2 -8.4	Algeria 36.21°N 2.47°E H = 09 30 21 s, h = 28 km, Mag = 4.8 (ISC). Dc = 16.10°, Az = 227.45°.
24	+iP ePP	08 09	58 00	55 33	-0.4 -1.0	Tadzhikistan 37.34°N 72.59°E H = 08 51 11.0 s, h = 29 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, mPV (BRA) = 5.3, Dc = 41.32°, Az = 84.02°. PV: 1.2 s 0.04 μm.
24	-iP	11	57	34	-1.2	Mid-Indian Rise 23.91°S 69.61°E H = 11 44 56.6 s, h = 22 km, Mag = 4.9 (ISC). Dc = 85.78°, Az = 133.28°.
25	+iP ipP	10	39	12	+0.6 -1.0	Northern Sinkiang Province, China 43.34°N 87.06°E H = 10 30 36.3 s, h = 22 km, Mag = 5.2 (ISC). MLH (MOS) = 5½, mPV (BRA) = 5.5, Dc = 47.51°, Az = 68.35°. PV: 1.2 s 0.03 μm.
26	eP	13	23	50	+2.8	South Indian Ocean 1.10°S 89.47°E H = 13 11 44.2 s, h = 33 km, Mag = 4.9 (ISC). MLH (MOS) = 5½, Dc = 79.13°, Az = 104.01°.
26	ePKIKP	22	06	08	0.0	Fiji Region 16.53°S 175.92°E H = 21 46 35 s, h = 56 km, Mag = 4.9 (ISC). Dc = 143.98°, Az = 36.11°.
27	eSg	21	37	54	+17.0	Austria 46.50°N 14.0°E H = 21 36 08 s (BCIS). Dc = 2.69°, Az = 232.82°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
27	eP ePP	23	23	39	+2.9	Southern Sinkiang Province, China 41.85°N 82.09°E H = 23 15 17 s, h = 3 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 45.15°, Az = 72.75°.
27	e	09	01	09		Czechoslovakia Explosion of 14.3 Tons. 48.55°N 15.65°E H = 09 00 (PRU). Dc = 1.04°, Az = 292.03°.
28	e	10	24	33		
28	ePKIKP	10	32	53	+0.3	Fiji Region 15.45°S 177.1°W H = 10 13 18.4 s, h = 33 km, Mag = 4.5 (ISC). Dc = 145.33°, Az = 24.58°.
28	ePP	19	46	56	+0.7	Southern Persia 28.93°N 57.31°E H = 19 38 31 s, h = 54 km, Mag = 4.5 (ISC). MLH (MOS) = 4¾, Dc = 36.32°, Az = 107.20°.
29	eP ePcP	00	15	42	+2.8	Queen Charlotte Islands Region 41.10°N 130.41°W H = 00 04 43.1 s, h = 6 km, Mag = 5.1 (ISC). MLH (MOS) = 5, Dc = 77.26°, Az = 339.68°.
29	-eP iPcP ePP	04	07	25.6	+0.1	Andreanof Islands, Aleutian Islands 51.47°N 178.32°W H = 03 55 21.0 s, h = 48 km, Mag = 6.0 (ISC). MLH (MOS) = 5½, mPV (BRA) = 6.3, Dc = 77.26°, Az = 9.73°. PV: 1.4 s 0.36 μm.
29	eP	12	37	37	-0.5	Andreanof Islands, Aleutian Islands 51.46°N 178.25°W H = 12 25 34.7 s, h = 63 km, Mag = 5.6 (ISC). Dc = 79.88°, Az = 9.69°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29	ePKP2	12	50	45	-1.0	Tonga 15.53° S 173.73° W H = 12 31 11 s, h = 69 km, Mag = 5.0 (ISC). Dc = 146.25°, Az = 19.04°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	iP	07	11	12	-3.0	Greece 39.60° N 21.29° E
	i		11	48		H = 07 09 03.0 s, h = 34 km,
	iSn		13	05	+2.0	Mag = 5.5 (ISC). MLH (MOS) = 6½, MLH (BRA) = 5.8.
	Lm		16	00		Dc = 9.08°, Az = 159.06°. LmH: 6 s 47 μm.
1	eP	08	17	51	-5.8	Greece 39.75° N 21.42° E
						H = 08 15 46.9 s, h = 38 km, Mag = 4.6 (ISC). MLH (MOS) = 4¾, Dc = 8.97°, Az = 158.16°.
1	eP	09	52	21	-0.6	Greece 39.51° N 21.30° E
	Lm		57.5			H = 09 50 08.2 s, h = 33 km, Mag = 4.8 (ISC). MLH (MOS) = 4½, Dc = 9.17°, Az = 159.19°.
1	eP	14	40	16	-2.0	Greece 39.36° N 21.31° E
						H = 14 38 02.1 s, h = 21 km, Mag = 4.5 (ISC). Dc = 9.31°, Az = 159.44°.
2	eP	08	14	08	-1.3	Greece 39.45° N 21.29° E
						H = 08 11 55.9 s, h = 39 km, Mag = 4.5 (ISC). Dc = 9.22°, Az = 159.36°.
2	e	15	03	54		
2	e	15	03	54		
2	ePP	17	30	75	+1.5	Eastern New Guinea Region 5.59° S 147.24° E
						H = 17 10 04.5 s, h = 146 km, Mag = 5.2 (ISC). Dc = 120.09°, Az = 61.58°.
3	e	14	35	16		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
3	iPb iSg iLm iSn	16	02	25.5		Slovakia Small local shock or explosion. $D \approx 38$ km, MLgH (BRA) = 1.8. LgH: 1.2 s 1.15 $\mu$ m.
3	eP eSg	18	44	03	+3.1	Greece 39.53°N 21.34°E H = 18 41 47.2 s, h = 37 km, Mag = 4.8 (ISC). MLH (MOS) = 4½, Dc = 9.16°, Az = 158.97°.
4	e	12	39	30		
4	eP eSg	13	33	18	-1.0	Greece 39.63°N 21.26°E H = 13 31 07.8 s, h = 39 km, Mag = 4.7 (ISC). Dc = 9.05°, Az = 159.15°.
5	eP	06	28	53	+4.0	Greece 39.56°N 21.29°E H = 06 26 37.9 s, h = 57 km, Mag = 4.7 (ISC). Dc = 9.12°, Az = 159.15°.
6	eP ePcP	14	12	15	0.0	Dominican Republic Region 19.25°N 70.01°W H = 14 00 40 s, h = 30 km, Mag = 5.4 (ISC). Dc = 161.11°, Az = 281.04°.
8	ePKIKP	19	04	54	+1.4	South of Kermadec Islands 33.28°S 178.37°W H = 18 44 56 s, h = 47 km, Mag = 5.1 (ISC). Dc = 161.11°, Az = 43.67°.
9	eP	04	07	52	-1.6	Turkey 39.61°N 27.15°E H = 04 05 13.0 s, h = 37 km, Mag = 4.4 (ISC). Dc = 11.20°, Az = 136.09°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
9	iP iPcP i	06	26	58	+0.5	Kurile Islands 44.02°N 149.08°E H = 06 14 51.0 s, h = 0 km, Mag = 5.3 (ISC). MLH (MOS) = 5¾, Dc = 78.96°, Az = 33.12°.
9	eP	08	02	55	-2.2	Greece 39.72°N 21.39°E H = 08 00 47.3 s, h = 53 km, Mag = 4.7 (ISC). Dc = 8.99°, Az = 158.36°.
9	ePKP2 epPKP2	20	33	06	+0.8	Tonga 15.54°S 173.39°W H = 20 13 32.9 s, h = 91 km, Mag = 4.7 (ISC). Dc = 146.33°, Az = 18.46°.
11	-iP iPP ePPP Lm	14	58	47	+3.7	Tadzhikistan-Sinkiang Border Region 39.33°N 73.74°E H = 14 50 57 s, h = 2 km, Mag = 5.5 (ISC). MLH (MOS) = 6, mPV (BRA) = 5.7. Dc = 41.02°, Az = 80.73°.
11	ePP	15	23	17	-4.0	Chile-Bolivia Border Region 20.25°S 68.83°W H = 11 15 05 s, h = 109 km, Mag = 5.9 (ISC). Dc = 102.18°, Az = 253.37°.
12-16						The apparatus was not operational.
16	ePKP2	16	34	02	-1.3	Tonga 15.26°S 173.32°W H = 16 14 24 s, h = 36 km, Mag = 5.1 (ISC). Dc = 146.07°, Az = 18.24°.
16	eP	19	37	35	+0.8	South of Honshu, Japan 32.56°N 141.40°E H = 19 24 59.9 s, h = 41 km, Mag = 5.1 (ISC). MLH (MOS) = 5, Dc = 85.46°, Az = 44.42°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
16	ePn eSg	21	18 19	08 46.5	+6.0 +4.3	Yugoslavia 42.9°N 20.3°E H = 21 16 34 s (BCIS), Dc = 5.73°, Az = 155.77°.
17	eP	00	44	26	-1.2	Southern Alaska 60.78°N 143.59°W H = 00 33 12.9 s, h = 13 km, Mag = 5.2 (ISC). MLH (MOS) = 4½, Dc = 70.29°, Az = 350.07°.
17	eP	04	33	47	+4.7	Turkey-Persia Border Region 38.69°N 44.29°E H = 04 28 53 s, h = 54 km, Mag = 4.7 (ISC). MLH (MOS) = 4½, Dc = 21.80°, Az = 105.69°.
17	iPg Lm	09	58 59	59 02		Small local shock or explosion.
17	ePKIKP	16	33	05	+0.7	Fiji Region 16.68°S 175.90°E H = 16 13 33.4 s, h = 38 km, Mag = 4.9 (ISC). Dc = 144.10°, Az = 36.25°.
17	-iP	17	57	18.6	+1.9	Red Sea 19.67°N 38.7°E H = 17 50 42.2 s, h = 61 km, Mag = 5.2 (ISC). MLH (MOS) = 5¼, mPV (BRA) = 5.6, Dc = 33.37°, Az = 140.89°. PV: 0.16 μm 2.0 s.
18	-iP	04	18	56	+0.1	Hokkaido, Japan Region 41.88°N 144.95°E H = 04 06 50 s, h = 9 km, Mag = 5.1 (ISC). MLH (MOS) = 5¼, Dc = 79.21°, Az = 36.89°.
18	eP	11	34	34.1	+0.6	Hokkaido, Japan Region 41.91°N 144.86°E H = 11 22 27 s, h = 6 km, Mag = 5.2 (ISC). Dc = 79.14°, Az = 36.94°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
18	iP	14	12	59	+1.0	Hokkaido, Japan Region 41.91°N 144.92°E H = 14 00 52 s, h = 8 km, Mag = 5.0 (ISC). MLH (MOS) = 5¼, Dc = 79.16°, Az = 36.90°.
18	e	15	44	49		
18	iP	23	51	28.5	0.0	Kyushu, Japan 30.91°N 130.90°E H = 23 39 16.7 s, h = 64 km, Mag = 5.5 (ISC). MLH (MOS) = 5, Dc = 81.51°, Az = 52.67°.
19	e	01	10	00		
19	ePKIKP	12	22	28	+12.3	Kermadec Islands 30.49°S 177.71°W H = 12 02 21.4 s, h = 29 km, Mag = 4.8 (ISC). Dc = 159.02°, Az = 38.05°.
19	+iP	15	59	59	-2.0	Ethiopia 14.62°N 40.17°E H = 15 52 39 s, h = 43 km, Mag = 4.9 (ISC). Dc = 38.50°, Az = 142.47°.
20	ePP	08	56	37	+1.0	Kirgiziya 39.26°N 72.76°E H = 08 47 22.6 s, h = 46 km, Mag = 4.8 (ISC). MLH (MOS) = 4¾, Dc = 40.41°, Az = 81.43°.
20	eSg	11	46	46		Czechoslovakia Explosion of 20.7 Tons, 50.57°N 14.01°E H = 11 45, (PRU), Dc = 3.14°, Az = 321.08°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
20	iP	15	12	40.6	+0.3	Southern Nevada Nuclear explosion "COMMODORE". $37.16^{\circ}\text{N}$ $116.06^{\circ}\text{W}$ $H = 15\ 00\ 01.7\ \text{s}$ , $h = 16\ \text{km}$ , Mag = 5.8 (ISC). mPV (BRA) = 6.2, $D_c = 85.36^{\circ}$ , $Az = 324.22^{\circ}$ . PV: $0.26\ \mu\text{m}$ 1.6 s.
20	eP i	23	22	50	+0.6	Western Russia $66.48^{\circ}\text{N}$ $33.9^{\circ}\text{E}$ $H = 23\ 18\ 11.7\ \text{s}$ , $h = 17\ \text{km}$ , Mag = 4.4 (ISC). MLH (MOS) = 4, $D_c = 20.34^{\circ}$ , $Az = 19.45^{\circ}$ .
21	-iP ipP isP ePP iSKS ePS	18	57	38	0.0	Southern Sumatra $0.96^{\circ}\text{S}$ $101.39^{\circ}\text{E}$ $H = 18\ 45\ 13.2\ \text{s}$ , $h = 184\ \text{km}$ , Mag = 6.2 (ISC). mPV (BRA) = 6.5, $D_c = 86.89^{\circ}$ , $Az = 94.89^{\circ}$ . PV: 1.6 s 1.3 $\mu\text{m}$ .
23	eP	01	34	25	+1.4	Kurile Islands Region $44.72^{\circ}\text{N}$ $150.23^{\circ}\text{E}$ $H = 01\ 22\ 21\ \text{s}$ , $h = 18\ \text{km}$ , Mag = 4.8 (ISC). $D_c = 78.77^{\circ}$ , $Az = 32.04^{\circ}$ .
23	+iP ēPcP	02	04	42	+0.2	Kurile Islands Region $44.68^{\circ}\text{N}$ $150.30^{\circ}\text{E}$ $H = 01\ 52\ 38\ \text{s}$ , $h = 10\ \text{km}$ , Mag = 5.1 (ISC). $D_c = 78.83^{\circ}$ , $Az = 32.01^{\circ}$ .
23	e	09	59	36		
23	eP	12	07	47	+2.1	Greenland Sea $73.01^{\circ}\text{N}$ $5.9^{\circ}\text{E}$ $H = 12\ 02\ 19.2\ \text{s}$ , $h = 33\ \text{km}$ , Mag = 4.7 (ISC). $D_c = 25.43^{\circ}$ , $Az = 352.35^{\circ}$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
23	+iP	14	12	39	-1.0	Southern Nevada Nuclear explosion "SCOTCH". $37.27^{\circ}\text{N}$ $116.35^{\circ}\text{W}$ $H = 14\ 00\ 02.6\ \text{s}$ , $h = 20\ \text{km}$ , Mag = 5.7 (ISC). mPV (BRA) = 5.9, $D_c = 85.37^{\circ}$ , $Az = 324.48^{\circ}$ . PV: 1.4 s 0.12 $\mu\text{m}$ .
25	e	12	31	35		Near Earthquake Vienna: e Sb 12 31 31, i Sg 12 31 35.
26	e	02	40	26		
26	e	03	01	47		
26	eSg	08	26	48	+3.3	Austria $47.5^{\circ}\text{N}$ $14.0^{\circ}\text{E}$ $H = 08\ 25\ 32\ \text{s}$ (BCIS). $D_c = 2.2^{\circ}$ , $Az = 253.42^{\circ}$ .
27	iP	01	58	34	-1.0	Algeria $35.71^{\circ}\text{N}$ $0.26^{\circ}\text{W}$ $H = 01\ 54\ 23\ \text{s}$ , $h = 2\ \text{km}$ , Mag = 4.6 (ISC). $D_c = 17.89^{\circ}$ , $Az = 232.26^{\circ}$ .
27	-iP iPcP iPP ePS	17	35	00	-2.6	Rat Islands, Aleutian Islands $51.86^{\circ}\text{N}$ $176.09^{\circ}\text{E}$ $H = 17\ 22\ 56\ \text{s}$ , $h = 11\ \text{km}$ , Mag = 5.9 (ISC). MLH (MOS) = $6\frac{1}{2}$ , mPV (BRA) = 6.3, $D_c = 78.74^{\circ}$ , $Az = 13.11^{\circ}$ . PV: 1 s 0.24 $\mu\text{m}$ .
27	eP epP eiPP eiPPP	19	14	06	+0.3	Kashmir; Sinkiang Border Region $36.07^{\circ}\text{N}$ $77.66^{\circ}\text{E}$ $H = 19\ 05\ 48.1\ \text{s}$ , $h = 28\ \text{km}$ , Mag = 5.4 (ISC). MLH (MOS) = $5\frac{1}{2}$ , $D_c = 45.4^{\circ}$ , $Az = 82.21^{\circ}$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
28	iP	01	43	55	+1.2	Rat Islands, Aleutian Islands 52.20°N 175.01°E H = 01 31 56 s, h = 29 km, Mag = 5.2 (ISC). MLH (MOS) = 5, Dc = 78.24°, Az = 13.68°.
28	iP	04	15	31	+3.0	Eastern Kazakhstan 49.81°N 78.11°E H = 04 07 57.7 s. Underground explosion, Mag = 5.4 (ISC). Dc = 39.09°, Az = 63.98°.
29	e	09	03	18		
29	ePKIKP ePKP2	11	29	08	-2.7	West of Tonga 19.75°S 176.16°W H = 11 09 52.7 s, h = 244 km, Mag = 5.0 (ISC). Dc = 149.68°, Az = 25.35°.
29	iP ePP	21	13	38	+1.7	Hokkaido, Japan Region 43.29°N 145.74°E H = 21 01 45.8 s, h = 97 km, Mag = 5.3 (ISC). Dc = 78.33°, Az = 35.62°.
30	iP	10	06	53	-0.2	Andreanof Islands, Aleutian Islands 50.10°N 176.60°W H = 09 54 38.5 s, h = 30 km, Mag = 5.0 (ISC). Dc = 81.40°, Az = 8.88°.
31	iP	11	50	01	+0.6	Windward Islands 12.48°N 60.31°W H = 11 38 39.8 s, h = 70 km, Mag = 5.2 (ISC). Dc = 72.42°, Az = 269.14°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	-iP epP	03	48	19	+3.7	Fox Islands, Aleutian Islands 53.60°N 165.64°W H = 03 36 18.0 s, h = 49 km, Mag = 5.7 (ISC). MLH (MOS) = 5½, Dc = 78.58°, Az = 1.67°.
1	+iP	10	27	46	+4.1	Near East Coast of Kamchatka 53.95°N 160.58°E H = 10 16 11.7 s, h = 43 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 73.67°, Az = 21.51°.
1	+iP iPP ePPP	10	42	51	+4.2	Turkey 36.81°N 29.26°E H = 10 39 23.5 s, h = 43 km, Mag = 5.0 (ISC). MLH (MOS) = 4½, Dc = 14.44°, Az = 137.35°.
1	eP	11	05	18	-7.2	Turkey 36.7°N 29.3°E H = 11 01 56 s, h = 0 km (ISC). Dc = 14.55°, Az = 137.49°.
1	e e	13	18	27		
3	-iP iPcP	09	20	27	+0.3	Kodiak Island Region 58.35°N 151.31°W H = 09 08 54 s, h = 13 km, Mag = 5.4 (ISC). Dc = 73.42°, Az = 353.66°.
5	ePKIKP ePKP2 e e	01	41	06.5	+2.2	Tonga 21.23°S 174.48°W H = 01 21 24 s, h = 59 km, Mag = 5.3 (ISC). MLH (MOS) = 5¾, Dc = 151.55°, Az = 23.16°.
5	-iP ePcP	16	50	21	+2.4	Off East of Kamchatka 51.52°N 159.16°E H = 16 38 38.6 s, h = 51 km, Mag = 4.8 (ISC). MLH (MOS) = 5, Dc = 75.51°, Az = 23.38°.
6	e	09	01	39		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
7	iPn iPb iPg	16	19 20 20	58 00 05	-2.4 -1.7 +0.7	Austria 47.88°N 14.29°E H = 16 19 26.4 s, h = 33 km (ISC). Dc = 1.91°, Az = 262.32°.
7	ePKIKP i ipPKIKP	13	41 41 42	42 53 07.6	+0.7 -0.1	Loyalty Islands Region 21.42°S 170.26°E H = 13 22 13.8 s, h = 92 km, Mag = 5.3 (ISC). MLH (MOS) = 5½, Dc = 145.72°, Az = 48.33°.
8	iPg i iSg iLm	15	50 50 50 50	30.1 31.6 33.1 33.7		Slovakia Explosion. D = 30 km.
9	+iP	11	35	36	-0.5	Talaud Islands 4.13°N 126.21°E H = 11 21 59 s, h = 59 km, Mag = 5.2 (ISC). Dc = 99.52°, Az = 72.87°.
9	i	12	01	24.4		Czechoslovakia Explosion of 11.2 Tons. 50.42°N 13.83°E (BCIS). Dc = 3.11°, Az = 317.66°.
10	-iP	05	55	44.5	-0.3	North of Ascension Island 3.55°S 12.20°W H = 05 45 54.5 s, h = 20 km, Mag = 5.2 (ISC). Dc = 57.52°, Az = 215.39°.
10	e	12	17	59		
10	iPKIKP iPKP2 epPKP2	14	17 17 19	37 43 58	+7.6 +0.5 -4.5	West of Tonga 19.40°S 178.24°W H = 13 58 54.2 s, h = 608 km, Mag = 5.2 (ISC). Dc = 148.72°, Az = 28.76°.
11	iPb i iSg eLm	10	38 38 39 39	56.6 59.2 02.9 07.1		Czechoslovakia (Little Carpathians) D = 50 km.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
11	iP	12	02	13	+1.1	Kurile Islands 47.50°N 154.47°E H = 11 50 16.1 s, h = 26 km. Mag = 4.9 (ISC). MLH (MOS) = 4½, Dc = 77.75°, Az = 28.03°.
11	e	18	48	12		
12	eP eS	00	15 23	15 24	+0.3 -0.5	North Atlantic Ridge 16.63°N 46.62°W H = 00 05 09 s, h = 52 km, Mag = 5.2 (ISC). Dc = 60.30°, Az = 261.73°.
12	ePKIKP	01	08	56	+10.0	Tonga 21.13°S 174.38°W H = 00 48 58.9 s, h = 13 km, Mag = 5.0 (ISC). MLH (MOS) = 5, Dc = 151.48°, Az = 22.92°.
12	eP	01	31	45	-1.0	Greece 38.08°N 22.90°E H = 01 29 09.5 s, h = 47 km, Mag = 4.6 (ISC). MLH (MOS) = 4, Dc = 10.93°, Az = 155.15°.
12	eP eS	02	53 55	40 49	-1.5 +8.0	Greece 38.15°N 22.77°E H = 02 51 05.8 s, h = 35 km, Mag = 5.0 (ISC). MLH (MOS) = 4¾, Dc = 10.83°, Az = 155.53°.
12	eP	05	34	29	-1.1	Prince Edward Islands Region 44.76°S 35.70°E H = 05 21 09 s, h = 19 km, Mag = 5.5 (ISC). MLH (MOS) = 6, Dc = 93.97°, Az = 166.84°.
12	e	08	38	55		
12	eP	18	15	02	-2.8	Greece 39.06°N 21.27°E H = 18 12 46.6 s, h = 46 km, Mag = 4.6 (ISC). Dc = 9.59°, Az = 160.16°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	eP	21	30	38	+1.4	Southern Sumatra 3.01°S 100.53°E H = 21 17 48.5 s, h = 28 km, Mag = 5.4 (ISC). MLH (MOS) = 5½, Dc = 87.84°, Az = 96.89°.
12	-iP iPcP ePP Lm	23	34	38	+0.4	Kurile Islands 47.57°N 154.28°E H = 23 22 42.2 s, h = 24 km, Mag = 5.6 (ISC). MLH (MOS) = 5¾, mPV (BRA) = 6.0, Dc = 77.64°, Az = 28.11°. PV: 1.0 s 0.12 μm.
13	eP	01	22	53	-0.3	Southern Sumatra 3.11°S 100.54°E H = 01 10 05.6 s, h = 33 km, Mag = 5.1 (ISC). MLH (MOS) = 5, Dc = 87.91°, Az = 96.95°.
13	iPg	10	29	02		Slovakia Small local shock.
13	e	12	01	54		Czechoslovakia Explosion of 10.2 Tons. 50.68°N 14.66°E H = 12 00 00 s (ISC). Dc = 2.98°, Az = 328.50°.
13	ePKIKP ePP	15	57	59	+3.4	New Britain Region 5.60°S 148.10°E H = 15 39 30.5 s, h = 222 km, Mag = 5.2 (ISC). Dc = 120.60°, Az = 60.78°.
13	ePn ePg eSn iSg	17	40	21.6	+2.6	Austria 47.9°N 14.6°E H = 17 39 48 s, h = 0 km (ISC). Dc = 1.70°, Az = 261.86°.
13	eP ePP	23	14	32	-1.0	Eastern Caucasus 41.96°N 45.30°E H = 23 09 52.4 s, h = 33 km, Mag = 4.5 (ISC). MLH (MOS) = 4½, Dc = 20.79°, Az = 96.86°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
14	eP	03	57	14	+1.2	Near E. Coast of Eastern Russia 45.39°N 136.84°E H = 03 46 19.4 s, h = 345 km, Mag = 4.9 (ISC). Dc = 72.95°, Az = 39.79°.
14	ePKIKP ePKP2 i!pPKP2 e e ePPP	05	25	56	-0.3	Tonga 15.33°S 173.48°W H = 05 06 20.6 s, h = 39 km, Mag = 5.8 (ISC). MLH (MOS) = 6, Dc = 146.11°, Az = 18.53°.
14	-iP ePcP	08	17	50	-0.8	Kurile Islands 47.58°N 154.43°E H = 08 05 54.5 s, h = 19 km, Mag = 5.3 (ISC). MLH (MOS) = 5¾, mPV (BRA) = 5.4, Dc = 77.67°, Az = 28.02°. PV: 2.0 s 0.06 μm.
14	-iP ePcP	08	24	53	+1.8	Kurile Islands 47.49°N 154.48°E H = 08 12 57.5 s, h = 15 km, Mag = 5.4 (ISC). MLH (MOS) = 5.6, Dc = 77.77°, Az = 28.03°. PV: 1.2 s 0.06 μm.
15	iP	07	30	05	+0.3	Central Mid-Atlantic Ridge 1.05°N 29.56°W H = 07 19 46 s, h = 29 km, Mag = 4.5 (ISC). Dc = 61.78°, Az = 235.62°.
15	ePKIKP	09	43	23	+4.2	Tonga 15.20°S 173.21°W H = 09 23 43.1 s, h = 33 km, Mag = 4.4 (ISC). Dc = 146.04°, Az = 18.02°.
15	+iP epP	18	52	15	-1.6	Central Mid-Atlantic Ridge 9.18°N 40.52°W H = 18 41 58 s, h = 34 km, Mag = 4.8 (ISC). Dc = 61.86°, Az = 251.03°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
16	ePb e eSg	00	20	40.3		Czechoslovakia 48.4° N 17.5° E H = 00 20 37 s (BCIS). Dc = 0.35°, Az = 48.55°.
16	ePb	04	36	56		Czechoslovakia (Little Carpathians) D ≈ 50 km.
16	ePKIKP	06	03	48	+5.7	West of Macquarie Island 55.65° S 146.86° E H = 05 44 04.2 s, h = 39 km, Mag = 5.1 (ISC). MLH (MOS) = 5, Dc = 148.72°, Az = 122.93°.
16	ePKIKP	06	22	56	+3.2	West of Macquarie Island 55.52° S 147.2° E H = 06 03 22 s, h = 102 km, Mag = 4.9 (ISC). MLH (MOS) = 5, Dc = 148.90°, Az = 122.63°.
16	iPg	12	07	55		Czechoslovakia Explosion. D ≈ 15 km.
16	e	20	31	55		Tonga 19.44° S 175.18° W H = 20 12 19 s, h = 129 km, Mag = 4.8 (ISC). Dc = 149.66°, Az = 23.42°.
16	e	22	58	21		Yugoslavia 44.2° N 20.0° E H = 22 56 57 s (BCIS). Dc = 4.63°, Az = 153.16°.
17	Pdiff e e e ePP eSKS eSKKS eSP	05	14	48		South Sandwich Islands Region 58.36° S 26.83° W H = 05 00 12 s, h = 136 km, Mag = 5.9 (ISC). Dc = 112.17°, Az = 203.26°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
17	+iPb e eSg	17	45	45.3		Czechoslovakia 48.2° N 17.6° E H = 17 45 41 s, h = 0 km (ISC). Dc = 0.33°, Az = 84.35°.
18	iPb i iSg iLm iSn	21	47	50.9		Czechoslovakia 48.3° N 17.4° E H = 21 47 43 s, h = 0 km (ISC). Dc = 0.24°, Az = 56.14°.
19	iPb i iSg iLm iSn	00	23	05		Czechoslovakia 48.2° N 17.4° E H = 00 22 59.5 s, h = 0 km (ISC). Dc = 0.20°, Az = 80.77°.
19	eP	14	41	50	+1.1	Red Sea 20.68° N 38.14° E H = 14 35 22 s, h = 34 km, Mag = 4.9 (ISC). MLH (MOS) ≈ 5, Dc = 32.23°, Az = 140.94°.
19	iP ipP esS Lm	17	19	51.7	+0.4	Fox Islands, Aleutian Islands 52.76° N 166.90° W H = 17 07 47.1 s, h = 44 km, Mag = 5.9 (ISC). MLH (MOS) = 6 1/4, mPH (BRA) = 6, Dc = 79.39°, Az = 2.48°. PH: 1.2 s 0.12 μm.
20	e	03	42	36		
20	eP	05	37	28	+1.7	Fox Islands, Aleutian Islands 52.75° N 167.05° W H = 05 25 22 s, h = 31 km, Mag = 4.9 (ISC). Dc = 79.39°, Az = 2.57°.
20	eP	06	32	59	+2.2	Fox Islands, Aleutian Islands 52.82° N 167.01° W H = 06 20 49.9 s, h = 9 km, Mag = 4.9 (ISC). Dc = 79.33°, Az = 2.54°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
20	eP	07	47	51	+2.0	Fox Islands, Aleutian Islands 52.78°N 167.01°W H = 07 35 46 s, h = 40 km, Mag = 4.4 (ISC). Dc = 79.37°, Az = 2.54°.
20	eP ePcP	07	50	54	+1.9	Fox Islands, Aleutian Islands 52.79°N 167.06°W H = 07 38 50.0 s, h = 45 km, Mag = 5.4 (ISC). MLH (MOS) = 6½, Dc = 79.36°, Az = 2.57°.
21	iP i	07	03	15.2	-0.5	Peru-Ecuador Border Region 2.25°S 77.75°W H = 06 49 58.7 s, h = 62 km, Mag = 5.4 (ISC). Dc = 94.91°, Az = 272.11°.
21	eP	15	58	27	-0.7	Luzon, Philippine Islands 12.75°N 122.98°E H = 15 45 24 s, h = 16 km, Mag = 5.3 (ISC). MLH (MOS) = 6, Dc = 90.90°, Az = 69.81°.
21	ePKP2	16	05	48	-2.6	West Macquarie Island 55.48°S 146.5°E H = 15 46 01.8 s, h = 33 km, Mag = 4.9 (ISC). Dc = 148.50°, Az = 122.66°.
21	iP	18	15	42	+0.4	Central Alaska 64.91°N 147.59°W H = 18.04 40.5 s, h = 15 km, Mag = 5.4 (ISC). MLH (MOS) = 6, Dc = 66.63°, Az = 352.96°.
21	eP ePP	18	24	00	+3.5	Central Alaska 64.70°N 147.66°W H = 18 13 04.9 s, h = 21 km, Mag = 5.5 (ISC). MLH (MOS) = 6, Dc = 66.85°, Az = 352.95°.
21	ePKIKP ePKP2	19	29	29	+2.0	South of Fiji +13.8 23.40°S 179.96°W H = 19 10 29.2 s, h = 521 km, Mag = 5.0 (ISC). Dc = 151.80°, Az = 34.79°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
21	ePP	20	27	55	-18	Near Coast of Northern Chile 25.18°S 70.54°W H = 20 09 29 s, h = 28 km, Mag = 5.8 (ISC). MLH (MOS) = 5, Dc = 106.82°, Az = 251.05°.
22	e	11	01	34		Greece-Albania Border Region 39.28°N 20.95°E H = 10 58 34.2 s, h = 0 km, Mag = 4.0 (ATH). Dc = 9.31°, Az = 161.23°.
23	iPKP2 isPKP2	00	45	10	+0.4 -1.0	Samoa Region 15.18°S 172.15°W H = 00 25 29.8 s, h = 33 km, Mag = 5.1 (ISC). MLH (MOS) = 5½, Dc = 146.23°, Az = 16.22°.
23	iPKIKP	01	01	52	+3.3	Samoa Region 15.16°S 172.09°W H = 00 42 12.9 s, h = 30 km, Mag = 5.0 (ISC). Dc = 146.22°, Az = 16.11°.
23	ePKIKP	05	23	29	+3.9	Banda Sea 5.85°S 130.42°E H = 05 05 05.3 s, h = 89 km, Mag = 5.7 (ISC). MLH (MOS) = 5½, Dc = 109.80°, Az = 76.18°.
23	iPP	10	10	25	+0.9	Turkey 40.85°N 33.65°E H = 10 06 55.1 s, h = 20 km, Mag = 5.0 (ISC). MLH (MOS) = 4½, Dc = 13.87°, Az = 115.71°.
23	ePKP2	14	57	23	-7.0	West of Tonga 21.40°S 179.29°W H = 14 38 35.4 s, h = 600 km, Mag = 5.1 (ISC). Dc = 150.22°, Az = 31.98°.
23	ePKIKP e	21	49	42	+2.4	New Hebrides Region 19.13°S 167.65°E H = 21 30 12.0 s, h = 36 km, Mag = 5.3 (ISC). MLH (MOS) = 5, Dc = 142.48°, Az = 49.76°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
25	eP ePP	23	32	05	+8.1 +7.0	South of Marianas 12.43°N 141.75° H = 23 18 07 s, h = 65 km, Mag = 5.5 (ISC). Dc = 102.29°, Az = 55.35°.
26	eP	02	35	58	-2.2	Off Coast of Jalisco, Mexico 18.61°N 105.14°W H = 02 22 37 s, h = 41 km, Mag = 5.2 (ISC). Dc = 95.92°, Az = 306.22°.
28	-iP	01	22	00	-0.3	Kurile Islands 45.92°N 151.49°E H = 01 10 06.2 s, h = 58 km, Mag = 5.3 (ISC). MLH (MOS) = 5, mPV (BRA) = 5.6, Dc = 78.17°, Az = 30.64°. PV: 1.0 s 0.08 μm.
28	+iPKIKP	05	53	42	+2.9	Samoa 14.74°S 172.56°W H = 05 34 05.0 s, h = 41 km, Mag = 4.9 (ISC). Dc = 145.72°, Az = 16.76°.
28	ePKIKP	14	53	42	-17.0	Off West Coast of South Island, N. Z. 46.96°S 165.77°E H = 14 34 04.7 s, h = 37 km, Mag = 5.5 (ISC). Dc = 158.89°, Az = 98.48°.
29	iP	03	04	28	+0.2	Eastern Kazakhstan (UPP) Underground explosion. 49.87°N 78.10°E H = 02 56 57.8 s, h = 0 km, Mag = 5.3 (ISC). Dc = 39.07°, Az = 63.89°.
29	eP	08	27	22	+0.3	Turkey-USSR Border Region 41.60°N 43.93°E H = 08 22 47 s, h = 20 km, Mag = 4.7 (ISC). MLH (MOS) = 4½, Dc = 20.05°, Az = 99.14°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29	ePKIKP	09	45	30	+4.7	Samoa Region 15.5°S 172.8°W H = 09 25 46.1 s, h = 14 km, Mag = 4.8 (ISC). Dc = 146.41°, Az = 17.45°.
29	ePKIKP	16	54	15		Banda Sea 7.29°S 128.59°E H = 16 36 16.8 s, h = 130 km, Mag = 5.4 (ISC). MLH (MOS) = 6, Dc = 109.69°, Az = 78.63°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	ePg eSn	02	04 05	54 28	+4.0 -6.0	Yugoslavia 43.75°N 19.80°E H = 02 03 30.1 s (ISC). Dc = 4.75°, Az = 157.60°.
1	ePn ePg eSn e Lm	02	56 56 57 57 59.5	37 57 30 45	-0.9 +2.0 -3.0	Yugoslavia 43.97°N 19.17°E H = 02 55 33.3 s, h = 33 km (ISC). Mag = 4.5 (USCGS). MLH (BRA) = 4.0, Dc = 4.44°, Az = 160.35°. LmH: 1.8 s 0.4 μm.
1	+iP ePcP e	07	41 41 43	31 55 18	-0.9 +15.0	Southern Sumatra 0.82°S 98.66°E H = 07 28 57.6 s, h = 26 km, Mag = 5.3 (ISC). MLH (MOS) = 5½, Dc = 84.97°, Az = 96.84°.
1	e e	20	45 46	35 03		Slovakia Local shock. Traces.
1	eP ePcP e	21	34 34 34	12 24 34	+3.0 -1.4	Alaska Peninsula 54.12°N 160.88°W H = 21 22 13.4 s, h = 40 km, Mag = 4.8 (ISC). Dc = 78.07°, Az = 358.79°.
1	+iP iPcP i i iPP iS e Lm	23	22 22 23 23 24 31 34	04 15 00 52 58 44 15	+1.6 -3.5 -1.0 -6.0	South of Alaska 54.44°N 157.94°W H = 23 10 08.6 s, h = 38 km, Mag = 6.2 (ISC). M (MOS) = 6½, MLH (BRA) = 6, Dc = 77.68°, Az = 357.04°. LmH: 15 s 5.5 μm.
2	ePn	00	32	51	+2.8	Yugoslavia 43.78°N 20.05°E H = 00 31 42.5 s, M = 4.2 (BEO). Dc = 4.51°, Az = 153.86°..

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Date	Phase	h	m	s	Res. (O-C)	Remarks
2	iPn iPb i iSg Lm	01	15 15 16 17.0	13.5 48 32	0.0 +2.9 + 6.4	Yugoslavia 44.0°N 19.10°E H = 01 14 08.1 s, h = 33 km, Mag = 4.5 (ISC). Dc = 4.36°, Az = 160.86°.
2	ePn	07	11	13	-4.2	Yugoslavia 43.98°N 19.22°E H = 07 10 09.1 s, M = 3.9 (BEO). Dc = 4.51°, Az = 159.87°.
2	eP i i e e ePP	07	15 15 16 16 17 18	27 32 27 47 16 25	-3.4 +4.0	Nicobar Islands Region 8.65°N 93.59°E H = 07 03 54 s, h = 44 km, Mag = 5.7 (ISC). Dc = 74.59°, Az = 94.26°.
2	eP	07	50	47	-1.9	South of Honshu, Japan 32.94°N 141.71°E H = 07 38 13 s, h = 25 km, Mag = 5.1 (ISC). Dc = 85.28°, Az = 43.98°.
2	eP	14	21	16	+0.2	Nicobar Islands Region 8.65°N 94.01°E H = 14 09 44 s, h = 94 km, Mag = 4.6 (ISC). Dc = 74.88°, Az = 93.94°.
2	eP	16	28	27	+1.7	Off East Coast of Honshu, Japan 33.01°N 141.83°E H = 16 15 46 s, h = 3 km, Mag = 5.0 (ISC). M (MOS) = 5, Dc = 85.27°, Az = 43.86°.
3	iPn iSn i Lm	02	54 55 56 56.3	53 43 20.5	+0.4 +5.0	Yugoslavia 44.02°N 19.18°E H = 02 53 43 s, h = 1 km, Mag = 5.1 (ISC). MLH (BRA) = 5.0, Dc = 4.39°, Az = 160.06°. LmH: 2.8 s 3.7 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
3	eP	21	59	07	-1.0	Ascension Island Region 7.47° S 13.42° W H = 21 48 54 s, h = 56 km, Mag = 4.9 (ISC). Dc = 61.58°, Az = 214.94°.
4	e ePP e	14	36	31	-2.5	Near Coast of Central Chile 38.10° S 73.43° W H = 14 16 49 s, h = 7 km, Mag = 5.3 (ISC). Dc = 117.48°, Az = 242.78°.
4	eP i epP esP e e	23	53	50	-0.5	Hokkaido, Japan Region 43.10° N 142.58° E H = 23 42 12.9 s, h = 157 km, Mag = 5.6 (ISC). Dc = 77.22°, Az = 37.71°.
5	eP ePP ePPP e eS Lm	00	56	00	-6.1	Southern Greece 36.73° N 21.50° E
			56	10	-7.0	H = 00 53 16.8 s, h = 50 km, Mag = 4.7 (ISC). M (MOS) = 4 1/4,
			56	21	+0.7	MLH (BRA) = 4.6, Dc = 11.88°, Az = 162.60°, LmH: 9 s 7.1 μm.
5	eP	16	52	20	-3.2	Southern Greece 36.85° N 21.35° E H = 16 49 37.5 s, h = 46 km, Mag = 4.3 (ISC). Dc = 11.74°, Az = 163.02°.
6	eP e	05	17	16	+1.6	Central Alaska 62.41° N 147.33° W H = 05 06 13.1 s, h = 55 km, Mag = 5.1 (ISC). Dc = 69.07°, Az = 352.31°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
6	eP ePP Lm	08	24	37	-4.4	Southern Greece 36.67° N 21.43° E H = 08 21 51.3 s, h = 43 km, Mag = 4.7 (ISC). Dc = 11.92°, Az = 162.93°.
6	e	12	02	41		Poland Probably explosion.
6	+iP iPcP i e e ePPP	13	54	31	+0.9	Fox Islands, Aleutian Islands 52.58° N 168.13° W H = 13 42 27 s, h = 49 km, Mag = 5.9 (ISC). M (MOS) = 6, MPV (BRA) = 6.5, Dc = 79.53°, Az = 3.24°. PV: 2.4 s 1.5 μm.
6	eP	18	43	17	0.0	Leeward Islands 18.96° N 61.94° W H = 18 32' 11 s, h = 15 km, Mag = 5.2 (ISC). M (MOS) = 5 1/4, Dc = 68.88°, Az = 275.08°.
6	eP ePP	19	30	04	-0.3	Central Mid-Atlantic Ridge 8.19° N 38.52° W H = 19 19 50.2 s, h = 41 km, Mag = 5.1 (ISC). M (MOS) = 5, Dc = 61.36°, Az = 248.58°.
7	eP	01	18	12	+2.2	Eastern Gulf of Aden 13.32° N 50.72° E H = 01 10 00 s, h = 46 km, Mag = 4.6 (ISC). Dc = 44.54°, Az = 129.80°.
7	e e	08	01	33		Traces.
7	ePKIKP	10	00	57	+5.5	West of Tonga 20.25° S 177.58° W H = 09 42 07.6 s, h = 530 km, Mag = 4.5 (ISC). Dc = 149.72°, Az = 28.17°.
7	e	11	00	50		Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
8	-iPKIKP i ipPKIKP e ePP epPP	01	18	08	+2.6	New Hebrides 15.37°S 167.50°E H = 00 58 54.0 s, h = 132 km, Mag = 5.2 (ISC). Dc = 139.22°, Az = 46.85°.
8	ePKIKP	06	42	24	+2.4	New Hebrides 16.30°S 166.72°E H = 06 22 54 s, h = 15 km, Mag = 5.1 (ISC). M (MOS) = 5, Dc = 139.62°, Az = 48.57°.
8	ePn	09	54	17	-2.0	Yugoslavia 44.9°N 17.0°E H = 09 53 25 s (BCIS). Dc = 3.27°, Az = 181.31°.
8	ePKIKP	13	32	20	+7.1	West of Tonga 20.10°S 177.98°W H = 13 13 29.1 s, h = 546 km, Mag = 4.3 (ISC). Dc = 149.45°, Az = 28.77°.
9	eP	03	20	44	-3.6	Hokkaido, Japan Region 43.70°N 155.70°E H = 03 09 07.7 s, h = 154 km, Mag = 4.7 (ISC). Dc = 77.57°, Az = 36.05°.
10	ePKIKP	06	48	15	+5.6	West of Tonga 17.66°S 178.86°W H = 06 29 32.4 s, h = 556 km, Mag = 4.7 (ISC). Dc = 146.90°, Az = 28.69°.
11	ePKIKP	04	35	57	-1.5	Solomon Islands 7.2°S 155.7°E H = 04 17 03.2 s, h = 62 km, Mag = 5.1 (ISC). Dc = 126.22°, Az = 54.42°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
11	-iPn iPb iPg i iSg Lm	12	42	14.8	-1.3	Yugoslavia 44.58°N 17.12°E H = 12 41 21.2 s, h = 0 km, Mag = 4.5 (ISC). MLH (BRA) = 4.4, Dc = 3.59°, Az = 179.83°. LmH: 0.5 s 1.3 μm.
11	e	13	33	49		Local shock. Traces.
12	iPn iPb iPg e	11	58	56		Local shock.
12	ePn e iPb ePg	15	44	05		Local shock.
12	eP ePcP e e ePP	21	13	32	+1.0	South of Panama 5.73°N 82.72°W H = 21 00 22.2 s, h = 29 km, Mag = 5.3 (ISC). M (MOS) = 6, Dc = 92.29°, Az = 281.10°.
12	ePKIKP e	21	34	27	+1.1	Fiji 16.12°S 178.30°E H = 21 14 50 s, h = 15 km, Mag = 5.3 (ISC). Dc = 144.49°, Az = 32.24°.
13	ePKIKP ePKP2	01	11	36	+16.8	South of Kermadec Islands 32.25°S 178.1°W H = 00 51 19 s, h = 53 km, Mag = 4.5 (ISC). Dc = 160.36°, Az = 41.42°. Traces.
13	+eP ePP	02	14	32	+0.4	Algeria 35.49°N 0.14°W H = 02 10 22 s, h = 23 km, Mag = 4.9 (ISC). M (MOS) = 4½-5, Dc = 17.99°, Az = 231.55°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
13	ePKIKP e	07	55	41	+3.4	Fiji 16.12° S 178.09° E H = 07 36 09.7 s, h = 69 km, Mag = 5.0 (ISC). Dc = 144.42°, Az = 32.56°.
13	+ePKIKP epPKIKP esPKP ePP eSKP	10	23	51	+1.6	New Hebrides 20.43° S 169.25° E
			24	04	-12.0	H = 10 04 20.2 s, h = 57 km, Mag = 4.9 (ISC). Dc = 144.38°, Az = 48.79°.
13	eP eS Lm	14	40	48	-2.4	Albania 40.66° N 19.67° E H = 14 38 58.4 s, h = 73 km, Mag = 4.7 (ISC). MLH (BRA) = 4.8, Dc = 7.73°, Az = 165.33°. LmH: 3 s 1.0 μm.
14	eP	03	18	07	+0.6	Red Sea 19.55° N 38.75° E H = 03 11 32 s, h = 71 km, Mag = 4.8 (ISC). Dc = 33.50°, Az = 140.93°.
14	eP e	11	52	03	+2.4	Persia-Iraq Border Region 35.0° N 46.3° E H = 11 46 43 s, h = 108 km, Mag = 4.6 (ISC). Dc = 25.31°, Az = 110.55°.
15	eP	03	34	32	+4.1	Eastern Kazakhstan 49.88° N 78.16° E H = 03 26 57.6 s, h = 0 km, Mag = 5.4 (ISC). Dc = 39.10°, Az = 63.85°.
15	eP	08	27	05	+2.1	Rat Islands, Aleutian Islands 51.48° N 176.92° E H = 08 15 00 s, h = 35 km, Mag = 4.9 (ISC). M (MOS) = 5, Dc = 79.24°, Az = 12.69°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
16	e ePP e e	13	52	25	+2.8	Western New Guinea Region 0.96° S 132.73° E H = 13 34 30.1 s, h = 30 km, Mag = 5.4 (ISC). M (MOS) = 6 1/4, Dc = 107.57°, Az = 71.02°.
16	e Lm	14	08	24		France 46.9° N 5.3° E H = 14 04 14 s, h = 20 km (ISC). MLH (BRA) = 4.9, Dc = 8.09°, Az = 265.37°. LmH: 0.5 s 0.7 μm.
16	ePn eSg Lm	19	02	49	-5.0	Yugoslavia 46.0° N 15.5° E H = 19 02 13 s, h = 0 km (ISC). MLH (BRA) = 4.0, Dc = 2.42°, Az = 207.41°. LmH: 0.4 s 0.5 μm.
17	eP	11	40	27	+7.7	Fox Islands, Aleutian Islands 51.18° N 169.23° W H = 11 28 14.3 s, h = 32 km, Mag = 4.8 (ISC). Dc = 80.88°, Az = 4.03°.
18	iPg iPn	15	47	23.4		Local shock.
19	eP e ePP e eS e Lm	09	09	31	+1.4	Turkey 38.10° N 28.87° E H = 09 06 22.2 s, h = 41 km, Mag = 4.8 (ISC). M (MOS) = 5, MLH (BRA) = 5.0, Dc = 13.22°, Az = 135.28°. LmH: 4.5 s 3.5 μm.
19	ePKIKP	13	00	20	+6.8	West of Tonga 20.48° S 178.14° W H = 12 41 29.8 s, h = 535 km, Mag = 4.6 (ISC). Dc = 149.77°, Az = 29.31°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
20	eP	14	38	20	+1.1	Rat Islands, Aleutian Islands 51.31°N 178.32°E
	iPcP		38	32	+0.2	H = 14 26 13 s, h = 26 km,
	i		38	35		Mag = 5.3 (ISC). M (MOS) = 5½,
	i		39	32		Dc = 79.60°, Az = 11.86°.
	ePP		41	02	-19.0	
20	eP	15	50	10	+1.5	Western Caroline Islands 7.64°N 134.75°E
	e		50	31		H = 15 36 20.5 s, h = 8 km,
	e		50	35		Mag = 5.7 (ISC). M (MOS) = 7,
	e		53	34		Dc = 102.11°, Az = 63.90°.
	ePP		54	33	+2.0	
20	e		54	41		
	ePS	16	03.5		-5.0	
	Lm		21.5			
20	ePn	16	21	08	+0.6	Yugoslavia 45.5°N 14.6°E
	eSn		21	30	-7.0	H = 16 20 20.4 s, h = 22 km,
	Lm		21.9			Mag = 4.4 (BEO). Dc = 3.18°, Az = 213.71°.
20	ePn	19	05	25	-5.6	Albania 40.72°N 19.88°E
	e		05	45		H = 19 03 30.4 s, h = 58 km,
	Lm		06.0			Mag = 4.5 (ISC). MLH (BRA) = 4.9, Dc = 7.70°, Az = 164.07° LmH: 0.5 s 1.1 μm.
20	ePKIKP	23	31	38	+0.2	South of Fiji 26.46°S 178.43°E
	e		32	07		H = 23 12 55.9 s, h = 609 km, Mag = 5.1 (ISC). Dc = 153.86°, Az = 40.66°.
21	ePKHKP	13	05	32	-1.5	Tonga 21.4°S 176.69°W
	ePKP2		05	49		H = 12 45 42 s, h = 54 km, Mag = 4.8 (ISC). Dc = 151.37°, Az = 27.36°.
22	ePKIKP	04	17	59	+1.4	South of Kermadec Islands 36.67°S 178.88°W
	e		18	16		H = 03 58 02.7 s, h = 43 km,
	ePKP2		18	45	-1.4	Mag = 5.1 (ISC). M (MOS) = 5½, Dc = 161.20°, Az = 45.44°.
	e		19	15		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
222	+iP	16	59	53.9	+1.0	Turkey
	i	17	01	02.9		40.67°N 30.69°E
	iSS		02	27.4	-2.6	H = 16 56 58.0 s, h = 33 km,
	iSSS		02	40	-1.0	Mag = 6.0 (ISC). M (MOS) = 7½, MLH (BRA) = 6.4,
	i		03	04.4		Dc = 12.26°, Az = 122.69°.
	i		03	34.4		LmH: 9 s 270 μm.
	L		03	52		
	Lm		11	40		
	Lm		14.5			
	Lm		20.5			
23	ePKIKP	03	28	10.5	+2.7	New Hebrides
	e		28	27		15.65°S 167.17°E
	ePKS		32	06	+19.0	H = 03 08 43.6 s, h = 27 km, Mag = 5.0 (ISC). M (MOS) = 5, Dc = 139.30°, Az = 47.49°.
23	ePKP2	14	08	27	+4.0	Macquarie Island Region
						56.16°S, 158.0°E H = 13 48 06.9 s, h = 33 km (ISC), Mag = 5.1 (USCGS). Dc = 155.03°, Az = 123.36°.
23	ePKIKP	19	03	57	+7.2	Tonga
						20.03°S 175.27°W H = 18 44 17 s, h = 110 km (ISC). Mag = 4.7 (ISC). Dc = 150.20°, Az = 23.92°.
24	e	13	57	02		Traces.
25	ePn	08	39	19	-8.6	Greece-Bulgaria Border Region
	e		39	34		41.9°N 25.0°E
	e		40	14		H = 08 37 26 s, h = 53 km,
	eSn		41	00	-1.0	Mag = 4.3 (ISC).
	Lm		42	27		Dc = 8.40°, Az = 135.38°.
25	eSn	11	24	07	-7.2	Yugoslavia
	e		24	28		45.1°N 14.8°E
	Lm		24	43		H = 11 22 43 s, h = 0 km (ISC). MLH (BRA) = 4.0, Dc = 3.46°, Az = 208.20°. LmH: 0.4 s, 0.4 μm.
						Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
26	ePKIKP e e	03	41	42	-8.2	Loyalty Islands Region 21.86° S 169.6° E H = 03 22 10 s, h = 0 km, Mag = 4.7 (ISC). Dc = 145.76°, Az = 49.67°.
26	+ePKIKP ePKP2 e	08	34	35	+2.8	Loyalty Islands Region 21.94° S 169.99° E H = 08 14 59.3 s, h = 53 km, Mag = 4.9 (ISC). Dc = 146.01°, Az = 49.20°.
26	e Lm	09	23	27		Turkey 40.61° N 30.67° E H = 09 16 06 s, h = 21 km, Mag = 4.4 (ISC). M (MOS) = 4½, Dc = 12.29°, Az = 122.95°. Traces.
26	+iP i iPP i i eS Lm Lm	18	57	20.4	-0.4	Turkey 39.54° N 40.38° E H = 18 53 01.1 s, h = 30 km, Mag = 5.6 (ISC). M (MOS) = 6, MLH (BRA) = 6.0, Dc = 18.81°, Az = 108.67°.
27	+iP e e e e e Lm	05	23	25.2		Iceland 64.00° N 20.78° W H = 05 17 54.5 s, h = 33 km, Mag = 5 (ISC). M (MOS) = 4½, Dc = 25.88°, Az = 321.68°.
27	eP ePcP e e e	11	48	29	+1.4	Atlantic-Indian Ridge 35.04° S 53.84° E H = 11 35 34.7 s, h = 33 km, Mag = 5.0 (ISC). Dc = 89.10°, Az = 150.60°.
28	iPKIKP iPKP2 e e	05	36	08.1	+3.3	Loyalty Islands Region 22.00° S 170.1° E H = 05 16 30 s, h = 30 km (ISC). Mag = 4.1 (USCGS). Dc = 146.13°, Az = 49.11°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29	-iP i ipP i e epPP e eS esS	10	36	44	+0.3	Northern Colombia 6.84° N 73.09° W H = 10 24 24.7 s, h = 160 km, Mag = 5.9 (ISC). mPV (BRA) = 6.5, Dc = 85.09°, Az = 274.70°. PV: 3.1 s 2.7 μm.
30	-iP iPcP i e i iPP i Lm	00	12	01.2	-2.1	Near Coast of Venezuela 10.68° N 67.40° W H = 00 00 02.7 s, h = 26 km, Mag = 5.7 (ISC). M (MOS) = 6½, MLH (BRA) = 6.5, Dc = 78.47°, Az = 273.12°. LmH: 18 s 23 μm.
30	iPn i i eS i Lm	01	33	58.3	+1.5	Turkey 40.72° N 30.52° E H = 01 31 01.8 s, h = 18 km, Mag = 5.4 (ISC). M (MOS) = 5¼, MLH (BRA) = 5.6, mPV (BRA) = 5.0, Dc = 12.13°, Az = 122.93°. LmH: 6 s 21.0 μm. PV: 1.0 s 0.7 μm.
30	ePKIKP e	11	09	20	+7.9	West of Macquarie Island 56.19° S 146.95° E H = 10 49 33.0 s, h = 33 km, Mag = 5.3 (ISC). M (MOS) = 6, Dc = 148.84°, Az = 123.95°.
30	ePKIKP	13	54	11	+3.9	New Ireland Region 5.24° S 153.49° E H = 13 35 10 s, h = 13 km, Mag = 5.2 (ISC). M (MOS) = 5¾, Dc = 123.37°, Az = 55.34°.
30	ePKIKP epPKIKP	17	43	26	+6.9	West of Tonga 17.85° S 178.73° W H = 17 24 43.4 s, h = 572 km, Mag = 5.3 (ISC). Dc = 147.11°, Az = 28.60°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
31	e	07	15	03	-0.1	Turkey 40.60°N 27.62°E H = 07 12 05 s, h = 4 km, Mag = 4.2 (ISC). Dc = 10.66°, Az = 131.33°.
	eS		16	35		
	e		17	29		
	Lm		18	22		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	e	09	26	22		Macquarie Island Region 59.89°S 159.6°E H = 09 05 48.6 s, h = 33 km, Mag = 5.5 (ISC). Dc = 155.40°, Az = 132.47°. Traces.
2	eP	00	56	28	+4.7	Kurile Islands 44.50°N 146.61°E H = 00 44 39.4 s, h = 131 km, Mag = 5.0 (ISC). Dc = 77.64°, Az = 34.42°.
2	iP	11	12	13.5	+4.0	Jan Mayen Island Region 71.18°N 8.14°W H = 11 06 39.4 s, h = 33 km, Mag = 5.1 (ISC). M (MOS) = 5 1/4, MLH (BRA) = 5.2, Dc = 25.95°, Az = 341.56°. LmH: 16 s 5.6 μm.
2	+iP	14	11	43	-6.3	Jan Mayen Island Region 71.26°N 8.34°W H = 14 06 16.5 s, h = 23 km, Mag = 5.3 (ISC). M (MOS) = 5, MLH (BRA) = 4.9, Dc = 26.05°, Az = 341.57°. LmH: 12 s 4.3 μm.
3	ePKIKP	00	28	11	+15.6	Tonga 20.02°S 174.04°W H = 00 08 12.5 s, h = 43 km, Mag = 4.7 (ISC). Dc = 151.47°, Az = 21.67°.
4	eP	06	11	19	-1.2	Central Mid-Atlantic Ridge 7.47°N 36.32°W H = 06 01 10.6 s, h = 33 km, Mag = 4.9 (ISC). Dc = 60.56°, Az = 246.12°.
4	e	09	00	25		Local shock.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
4	ePn eSn e e Lm	14	55	53	+0.1 -6.0	Adriatic Sea 42.81°N 17.62°E H = 14 54 32 s, h = 22 km, Mag = 4.6 (ISC). M (MOS) = 4½, MLH (BRA) = 4.4, Dc = 5.37°, Az = 175.95°. LmH: 2.0 s 1.4 μm.
4	ePKIKP	22	54	34	+6.7	Tonga Region 17.7°S 172.8°W H = 22 34 47.5 s, h = 33 km, Mag = 4.7 (ISC). Dc = 148.59°, Az = 18.34°.
8	iPb i i eL	09	47	50		Local shock. D = 40 km. Traces.
9	-iP	13	37	11	+1.3	Colorado 40.00°N 104.69°W H = 12 25 06.7 s, h = 5 km, Mag = 5.0 (ISC). Dc = 78.19°, Az = 318.16°
10	-iP iPcP i e -	11	33	21	+1.2 -1.5	Kurile Islands 45.21°N 150.39°E H = 11 21 22.7 s, h = 44 km, Mag = 5.6 (ISC). Dc = 78.41°, Az = 31.69°.
12	eP	04	42	49	+1.4	Near East Coast of Honshu, Japan 38.39°N 142.02°E H = 04 30 40.5 s, h = 75 km, Mag = 5.3 (ISC). M (MOS) = 4½, Dc = 80.89°, Az = 40.74°

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	-iPKIKP iPKP2 ipPKIKP isPKP i i ipPPP i Lm	09	59	22	+2.7 +5.0 -3.7 +0.3	South of Fiji 24.79°S 177.38°W H = 09 39 45.7 s, h = 144 km, Mag = 5.7 (ISC). Dc = 154.01°, Az = 31.25°.
12	eP	10	52	19	+1.4	Near East Coast of Kamchatka 53.67°N 160.36°E H = 10 40 47.3 s, h = 53 km, Mag = 5.1 (ISC). Dc = 73.87°, Az = 21.75°.
12	ePKIKP	12	50	23	+2.8	New Hebrides 14.83°S 166.73°E H = 12 30 56 s, h = 17 km, Mag = 5.3 (ISC). M (MOS) = 5, Dc = 138.37°, Az = 47.41°.
13	ePP	16	50	48	-7.0	South of Africa 50.86°S 29.1°E H = 16 33 05.4 s, h = 46 km, Mag = 5.3 (ISC). Dc = 99.18°, Az = 172.33°.
13	iP i i iPP iPP eS e	20	18	25.5	+1.0	Southern Honshu, Japan 35.43°N 135.49°E H = 20 06 52.3 s, h = 367 km, Mag = 6.0 (ISC). mPV (BRA) = 6.5, Dc = 80.28°, Az = 46.80°. PV: 1.8 s 1.6 μm.
13	eP ePP e e eSS eSS e eL Lm	22	10	57	-2.3 -2.0	Pyrenees 43.20°N 0.67°W H = 22 07 47.8 s, h = 15 km, Mag = 5.3 (ISC). M (MOS) = 5½, MLH (BRA) = 5.2, Dc = 13.38°, Az = 254.79° LmH: 6 s 6.0 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
13	ePKIKP e e	22	34	12	+10.1	New Britain Region 4.40°S 152.44°E H = 22 15 11.2 s, h = 39 km, Mag = 5.4 (ISC). M (MOS) = 6, Dc = 122.10°, Az = 55.83°.
13	eP e ePP	23	54	24	+0.9	Ascension Island Region 6.91°S 12.51°W H = 23 44 08 s, h = 3 km, Mag = 5.0 (ISC). Dc = 60.73°, Az = 214.23°.
13	ePn e e e eSn eSb Lm	10	17	33	-7.0	Northern Italy 46.90°W 10.41°S H = 10 16 17 s, h = 9 km, Mag = 4.5 (ISC). M (MOS) = 4, MLH (BRA) = 4.2, Dc = 4.71°, Az = 256.85°. LmH: 1.7 s 1.4 μm.
15	ePn e eSn eSg Lm	07	08	47	-4.7	Sicily 38.71°N 15.28°E H = 07 06 30.3 s, h = 2 km, Mag = 4.5 (ISC). M (MOS) = 4½, Dc = 9.54°, Az = 188.64°.
15	eP e e ePP	09	31	00	-1.3	Tibet 31.05°N 93.56°E H = 09 21 03.3 s, h = 36 km, Mag = 5.5 (ISC). M (MOS) = 5½, Dc = 58.95°, Az = 76.89°.
15	eP	15	47	28	+2.5	E Russia-NE China Border Region 44.66°N 132.43°E H = 15 36 07.9 s, h = 48 km, Mag = 5.3 (ISC). M (MOS) = 5, Dc = 71.58°, Az = 42.84°.
16	+iP ipP i i e	19	31	26	-0.2	Northern Sumatra 0.86°N 98.90°E H = 19 19 02 s, h = 61 km, Mag = 5.6 (ISC). Dc = 83.88°, Az = 95.54°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
17	eP e	12	59	05	+1.6	Central Mid-Atlantic Ridge 0.67°S 21.14°W H = 12 49 07 s, h = 19 km, Mag = 4.6 (ISC). Dc = 58.86°, Az = 226.32°.
18	eP	03	47	50	-2.2	Ryukyu Islands 27.70°N 127.61°E H = 03 35 40.5 s, h = 100 km, Mag = 5.4 (ISC). M (MOS) = 5, Dc = 82.21°, Az = 56.95°.
18	eP e	06	01	44	+1.8	Southern Alaska 61.67°N 151.0°W H = 05 50 27 s, h = 3 km, Mag = 4.6 (ISC). Dc = 70.10°, Az = 353.99°.
18	ePg e e	15	45	32		Local shock.
19	ePg e	10	59	57		Local shock.
19	-eP ePP	15	41	23	-1.7	Leyte, Philippine Islands 10.36°N 125.87°E H = 15 28 08.5 s, h = 60 km, Mag = 6.0 (ISC). M (MOS) = 6½, Dc = 94.54°, Az = 69.15°.
19	-ePKIKP epPKIKP ePP esPP	16	01	04	-0.5	Santa Cruz Islands 12.41°S 166.66°E H = 15 41 55.3 s, h = 106 km, Mag = 5.5 (ISC). M (MOS) = 5, Dc = 136.26°, Az = 45.72°.
20	iP	02	10	04	+4.7	Kazakhstan-Sinkiang Border Region 45.36°N 80.52°E H = 02 02 05 s, h = 21 km, Mag = 5.2 (ISC). M (MOS) = 5¾, Dc = 42.44°, Az = 69.13°.
20	e e	14	56	10		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
20	e	15	21	28		
21-23						The apparatus was out of order.
24	eP	03	33	22	+7.6	Kurile Islands 43.54°N 147.66°E H = 03 21 17.0 s, h = 63 km, Mag = 5.4 (ISC). M (MOS) = 5½, Dc = 78.85°, Az = 34.27°.
24	ePKIKP	05	48	40	+2.1	West of Tonga 21.14°S 179.02°W H = 05 30 01.5 s, h = 612 km, Mag = 4.7 (ISC). Dc = 150.08°, Az = 31.31°.
24	ePKIKP e	10	52	00	-16.7	New Hebrides 14.97°S 166.83°E H = 10 32 54.7 s, h = 37 km, Mag = 5.2 (ISC). M (MOS) = 5¾, Dc = 138.54°, Az = 47.39°.
25	e	18	17	10		Rat Islands, Aleutian Islands 51.52°N 177.17°E H = 15 03 25 s, h = 37 km, Mag = 5.0 (ISC). M (MOS) = 4¾, Dc = 79.23°, Az = 12.52°. Traces.
26	ePP ePPP Lm		54	41	-5.4	Western Caroline Islands 12.18°N 140.80°E H = 00 36 47.4 s, h = 78 km, Mag = 6.1 (ISC). M (MOS) = 6½, MLH (BRA) = 6.2, Dc = 101.97°, Az = 56.26°.
26	eP	14	21	29	+4.1	Turkey 37.59°N 30.44°E H = 14 18 02 s, h = 49 km, Mag = 4.5 (ISC). Dc = 14.38°, Az = 132.45°.
26	eP e	15	37	34	-0.7	Mid-Indian Rise 20.18°S 67.06°E H = 15 25 19.8 s, h = 33 km, Mag = 4.7 (ISC). Dc = 81.38°, Az = 133.34°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
26	iPKIKP i i e	18	39	38	+3.1	Samoa Region 15.20°S 172.64°W H = 18 19 58 s, h = 24 km, Mag = 5.1 (ISC). M (MOS) = 5½, Dc = 146.15°, Az = 17.06°.
27	eP epP e ePP epPP	13	21	34	-0.1	Nicaragua 12.18°N 86.31°W H = 13 08 57.3 s, h = 201 km, Mag = 5.4 (ISC). Dc = 89.78°, Az = 287.99°.
27	+eP ePcP	13	46	49	-0.7	Vancouver Island Region 50.25°N 130.01°W H = 13 34 53 s, h = 25 km, Mag = 4.9 (ISC). M (MOS) = 5, Dc = 77.96°, Az = 339.12°.
27	eSb eSg	21	29	04	+4.0	Switzerland 46.6°N 6.9°E H = 21 25 31 s, h = 0 km (ISC). Dc = 7.10°, Az = 261.03°.
27	e	22	29	30		West of Tonga 20.34°S 178.16°W H = 22 10 12.6 s, h = 557 km, Mag = 4.5 (ISC). Dc = 149.63°, Az = 29.25°. Traces.
28	eP e	15	37	51	+2.9	Vancouver Island Region 50.30°N 129.91°W H = 15 25 52.6 s, h = 33 km, Mag = 5.0 (ISC). M (MOS) = 5, Dc = 77.89°, Az = 339.08°.
28	e	16	31	38		Vancouver Island Region 50.35°N 129.83°W H = 16 20 07.3 s, h = 33 km, Mag = 5.0 (ISC). Dc = 77.82°, Az = 339.05°.
28	-eP iPP e e e	21	20	52	+1.4	Morocco 31.49°N 6.06°W H = 21 15 35.9 s, h = 33 km, Mag = 4.7 (ISC). Dc = 24.23°, Az = 234.98°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29-30						The apparatus was out of order.
30	ePKIKP	12	15	30	+1.8	Kermadec Islands 30.45°S 178.63°W H = 11 55 47.1 s, h = 131 km, Mag = 4.9 (ISC), M (MOS) = 5½, Dc = 158.60°, Az = 39.92°.
30	iP iPcP i e	13	45	27	+0.8 -5.0	Kurile Islands 45.36°N 151.51°E H = 13 33 24.2 s, h = 17 km, Mag = 5.5 (ISC). mPV (BRA) = 5.8, Dc = 78.66°, Az = 30.91°. PV: 1.5 s 0.3 μm.
30	eP	18	26	57	-2.0	Morocco 31.41°N 5.83°W H = 18 21 44 s, h = 23 km, Mag = 4.1 (ISC). Dc = 24.16°, Az = 234.49°.
31	i	14	40	12		Traces.
31	-iPKIKP i i ipPKIKP esPKP e e	19	12	37	+3.0 12 39 12 47 13 04 14 18 16 09 19 24	Tonga 17.45°S 175.17°W H = 18 53 25.1 s, h = 275 km, Mag = 5.2 (ISC). Dc = 147.76°, Az = 22.36°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	iPKIKP ePP	03	49	40.5	+0.3	Eastern New Guinea Region 5.56°S 147.18°E H = 03 31 10.9 s, h = 184 km, Mag = 5.5 (ISC). Dc = 120.03°, Az = 61.21°.
1	e	11	17	29		Local shock. Traces.
1	-iP e e	22	53	43.9	-0.9	Kurile Islands 44.51°N 147.11°E H = 22 41 59.5 s, h = 126 km, Mag = 5.5 (ISC). M (MOS) = 5, Dc = 77.81°, Az = 34.10°.
2	eP e	03	51	48	-0.7	Jan Mayen Island Region 71.57°N 8.5°W H = 03 46 14.7 s, h = 33 km, Mag = 4.7 (ISC). Dc = 26.32°, Az = 341.94°.
3	-iP i i iPP Lm Lm	21	21	24.7	+0.6	Off Coast of Peru 10.59°S 79.67°N H = 21 07 30 s, h = 29 km, Mag = 6.2 (ISC). M (MOS) = 7, MLH (BRA) = 6.3, Dc = 102.31°, Az = 267.88°.
4	e	03	29	20		Central Mid-Atlantic Ridge 1.3°S 23.8°W H = 03 18 53.1 s, h = 30 km, Mag = 4.6 (ISC). Dc = 60.72°, Az = 228.64°. Traces.
4	-iPKIKP i iPP	04	11	29.5	+0.7	Kermadec Islands Region 31.39°S 179.37°W H = 03 51 58.3 s, h = 223 km, Mag = 5.6 (ISC). Dc = 159.07°, Az = 42.76°.
5	-iPg	02	47	06.5		Local shock. Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
5	iPn iPg i eSn iSg Lm Lm	11 38 38 38 38 38 39	38 08 17 29 47 54 11	02       	+5.7 +4.0  -3.0 -1.0   	Yugoslavia 45.4°N 14.3°E H = 11 37 03.0 s, h = 38 km, Mag = 4.0 (USCGS). MLH (BRA) = 3.9, Dc = 3.37°, Az = 215.87°. LmH: 15 s 0.7 μm.
5	ePn eSg e e	15 20 20 20	19 00 08 18	15    	+6.9 +4.0   	Yugoslavia 45.7°N 14.2°E H = 15 18 16 s (BCIS). Dc = 3.17°, Az = 219.94°.
5	ePn ePg eSn eSg Lm	15 21 22 22 22	21 59 22 46 50	47  -1.0   	-2.3 +4.0 -1.0 +7.0  	Yugoslavia 45.6°N 14.2°E H = 15 20 57 s, h = 9 km (ISC). MLH (BRA) = 3.7, Dc = 3.26°, Az = 218.86°. LmH: 1.2 s 0.4 μm.
6	eP	03	31	11	+0.8	Kurile Islands 46.58°N 153.90°E H = 03 19 12.1 s, h = 33 km, Mag = 5.0 (ISC). M (MOS) = 4½-5, Dc = 78.39°, Az = 28.82°.
6	eP e e	05	02 03 08	38 32 38	-2.4	Crete 35.06°N 23.09°E H = 04 59 23 s, h = 20 km, Mag = 4.8 (ISC). Dc = 13.83°, Az = 159.03°.
6	+iP i iPcP e e ePP	07	41 41 41 42 43 44	21.5 32 43.5 26 35 17	-0.7 -6.5  +11.0	Andaman Islands Region 14.65°N 93.55°E H = 07 30 11.0 s, h = 36 km, Mag = 5.5 (ISC). Dc = 70.21°, Az = 90.02°.
6	-iP ePcP	17	36 36	44 50	-0.8 0.0	Fox Islands, Aleutian Islands 52.43°N 168.59°W H = 17 24 39.6 s, h = 31 km; Mag = 5.0 (ISC). Dc = 79.66°, Az = 3.54°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
7	eP ePP e	07	25 30 30	47 02 29	-1.9 +4.0  	Celebes Sea 2.66°N 124.27°E H = 07 12 37.7 s, h = 288 km, Mag = 5.6 (ISC). Dc = 99.39°, Az = 75.33°.
7	ePKIKP	09	54	00	+1.7	Kermadec Islands 30.64°S 177.59°W H = 09 34 11.2 s, h = 27 km, Mag = 4.7 (ISC). Dc = 159.20°, Az = 38.00°.
7	ePKIKP e ePP	11	27 27 31	20 58 42	+0.6 +11.5  	Kermadec Islands Region 31.35°S 179.85°E H = 11 08 13.2 s, h = 430 km, Mag = 5.0 (ISC). Dc = 158.68°, Az = 44.26°.
7	iPn i i i	13	36 36 36 36	47.6 50.6 52 53.6		Local shock.
7	e	13	57	39		Southern Nevada Nuclear explosion "YARD". 37.07°N 116.07°W H = 13 45 03.1 s, h = 29 km, Mag = 5.0 (ISC). Dc = 85.44°, Az = 324.19°.
7	eP	14	11	30	-2.7	Sicily 37.85°N 15.24°E H = 14 09 03.6 s, h = 53 km, Mag = 4.4 (ISC). Dc = 10.40°, Az = 188.20°.
8	e	02	02	51		Greece-Albania Border Region 40.82°N 20.3°E H = 02 00 26.4 s, h = 0 km (ISC). Dc = 7.69°, Az = 161.58°. Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
8	+ePn iPb e e eSn eSg Lm	02	06	45	-6.2	Greece-Albania Border Region 40.60°N 20.08°E
			06	51	-5.0	H = 02 04 45 s, h = 1 km, Mag = 5.1 (ISC). M (MOS) = 4.5, MLH (BRA) = 4.8,
			07	08		Dc = 7.86°, Az = 163.20°.
			07	35	-2.0	LmH: 4.5 s 5 μm.
			08	03	0.0	
			08	59		
			11.5			
8	ePn e eSn eSg e Lm	09	54	00	-1.4	Greece 39.08°N 21.40°E
			54	18		H = 09 51 42.8 s, h = 40 km, Mag = 4.5 (ISC).
			55	43	-6.0	Dc = 9.60°, Az = 159.54°.
			56	48	-3.0	
			57	32		
			59.5			
8	iPg i	12	41	40.6		Czechoslovakia, Explosion. 48.25°N 17.08°E
			42	15		H = 12 41.6 s (BRA). Dc = 0.08°, Az = 355.15°.
8	eP e e ePP	22	51	30	-2.0	Western Caroline Islands 12.19°N 140.75°E
			51	42		H = 22 37 40.5 s, h = 37 km, Mag = 5.6 (ISC). M (MOS) = 6.5,
			55	29		Dc = 101.93°, Az = 56.30°.
			55	48	-3.0	
9	e e e e iPP e	10	18	12		Santiago del Estero Prov., Arg. 27.62°S 63.15°W
			19	47		H = 10 06 44.5 s, h = 577 km, Mag = 5.9 (ISC).
			22	25		Dc = 104.01°, Az = 244.33°.
			23	53		
			24	09	-7.0	
			26	19		
9	e	12	50	49		Traces.
9	iPg i	16	34	03.7		Local shock. Traces.
			34	15.5		
9	ePKIKP ePKP2 e ePKS ePP e Lm	17	12	04	+5.5	South Pacific Cordillera 54.8°S 136.0°W
			12	55	+1.7	H = 16 52 01.8 s, h = 31 km, Mag = 5.1 (ISC).
			13	43		Dc = 162.08°, Az = 238.23°.
			14	52	-14.0	
			15	22	+1.0	
			17	16		
			26.5			

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Date	Phase	h	m	s	Res. (O-C)	Remarks
11	ePKIKP i e	04	56	53	-0.5	Loyalty Islands Region 21.22°S 169.55°E
			56	54		H = 04 37 22.7 s, h = 59 km, Mag = 4.9 (ISC).
			57	40		Dc = 145.19°, Az = 49.12°.
11	eP ePP e e	07	04	14	+4.1	Algeria 36.42°N 2.85°E
			04	23	0.0	H = 07 00 29.1 s, h = 33 km, Mag = 4.6 (ISC).
			11	58		Dc = 15.75°, Az = 227.03°.
			12	17		
11	ePKIKP ePKP2 e	10	34	14	+5.0	New Hebrides Region 21.61°S 173.81°E
			34	24	+4.3	H = 10 14 30.6 s, h = 31 km, Mag = 4.8 (ISC).
			34	47		Dc = 147.59°, Az = 43.35°.
11	eP ePcP	13	03	00	+1.9	Mongolia 44.99°N 99.33°E
			04	17	+7.0	H = 12 53 37 s, h = 46 km, Mag = 4.7 (ISC), M (MOS) = 5,
						Dc = 54.01°, Az = 60.34°.
11	eP	20	04	54	+0.5	Red Sea 20.05°N 38.10°E
						H = 19 58 22.9 s, h = 33 km, Mag = 4.6 (ISC).
						Dc = 32.78°, Az = 141.53°.
12	eP ePcP e e e	00	35	05	-1.6	South Atlantic Ridge 22.56°S 10.62°W
			35	20	-2.7	H = 00 23 25.7 s, h = 13 km, Mag = 4.9 (ISC).
			35	43		Dc = 74.67°, Az = 206.48°.
			36	20		
			38	29		
12	-iP iPcP e e	02	55	33.9	-1.3	Kurile Islands 44.59°N 149.79°E
			55	49.9	+0.9	H = 02 43 34 s, h = 30 km, Mag = 5.2 (ISC), M (MOS) = 5.3,
			56	14		Dc = 78.73°, Az = 32.38°.
			57	53		
12	eP e e	11	21	27	-0.2	North of Ascension Island 4.91°S 11.47°W
			21	36		H = 11 11 28 s, h = 7 km, Mag = 4.8 (ISC).
			21	45		Dc = 58.49°, Az = 213.98°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	ePn e e eSn Lm	14 49 49 49 50 52.5	01 19 48 57		+0.9 +12.5	Greece 39.23°N 21.46°E H = 14 46 42 s, h = 25 km, Mag = 4.7 (ISC). Dc = 9.48°, Az = 159.00°.
12	ePKIKP	22	08	40	+2.1	New Britain Region 5.40°S 151.62°E H = 21 49 48 s, h = 51 km, Mag = 5.2 (ISC). M (MOS) = 6, Dc = 122.47°, Az = 57.29°.
13	-iP iPcP i e e	18	53 53 53 54 55	07.8 15 27.3 45 33	-0.2 -5.7	Near Islands Aleutian Islands 52.73°N 172.42°E H = 18 41 12 s, h = 6 km, Mag = 5.6 (ISC). M (MOS) = 5.6, mPV (BRA) = 5.9, Dc = 77.30°, Az = 15.09°. PV: 1 s 0.1 μm.
14	ePKIKP e	15	54 54	28 56	+0.8	New Hebrides 15.37°S 167.50°E H = 15 35 17.9 s, h = 149 km, Mag = 4.8 (ISC). Dc = 139.22°, Az = 46.85°.
15	-eP e e e -ePP	00	40 41 41 42 44	58 12 30 57 09	+0.6 0,0	Near East Coast of Honshu, Japan 35.68°N 140.67°E H = 00 28 39.2 s, h = 53 km, Mag = 5.2 (ISC). M (MOS) = 5.7, Dc = 82.53°, Az = 43.17°.
15	-iP i e e ePP	10	42 42 44 45 45	51 57 27 07 21	-2.2 +13.0	Bhutan 27.42°N 91.86°E H = 10 32 44.2 s, h = 19 km, Mag = 5.8 (ISC). M (MOS) = 5.5, Dc = 60.22°, Az = 81.18°.
16	iPg i iSg	20	19 19 19	49.5 50.6 53	-8.6	Hungary 48.0°N 17.1°E H = 20 19 49 s, h = 0 km. MLH (BRA) = 2.6, Dc = 0.20°, Az = 181.14°, LmH: 0.5 s 1.9 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
17	+eP e e e	08	09 09 09 12	23 35 41 20	+0.8	Chiapas, Mexico 17.24°N 94.10°W H = 07 56 23.6 s, h = 51 km, Mag = 5.3 (ISC). Dc = 90.72°, Az = 297.00°.
18	ePKIKP ePP e ePKS	15	52 52 53 54 55	05 14 32 28.5 32	+11.9 +10.0 -4.5	Eastern New Guinea Region 5.97°S 146.59°E H = 15 33 06.6 s, h = 41 km, Mag = 5.6 (ISC). Dc = 120.01°, Az = 62.44°.
18	ePKP2	19	32	39	+6.1	West of Tonga 20.76°S 178.33°W H = 19 13 54.5 s, h = 590 km, Mag = 4.2 (ISC). Dc = 149.96°, Az = 29.84°.
19	ePKP2	01	05	29	-1.5	South of Fiji 24.76°S 176.9°W H = 00 45 26 s, h = 92 km, Mag = 4.8 (ISC). Dc = 154.14°, Az = 30.30°.
19	-eP e	03	41 41	11 32	-0.3	Near East Coast of Honshu, Japan 37.38°N 141.75°E H = 03 28 26.4 s, h = 40 km, Mag = 4.8 (ISC). Dc = 81.61°, Az = 41.49°.
19	iP ipP i i iS i	11	08 08 09 10 12 17 19	07.7 22.7 43.7 41 31.7 49.7 40.7	+6.1 -1.0 +3.7	Hokkaido, Japan Region 42.92°N 145.33°E H = 10 56 08.8 s, h = 85 km, Mag = 5.9 (ISC). MLH (BRA) = 6.2, mPV (BRA) = 6.1, Dc = 78.48°, Az = 36.08°. LmH: 15 s 8 μm. PV: 1.5 s 0.25 μm.
19	ePKIKP e	13	04 14	05 40	+0.7	South Sandwich Islands Region 57.82°S 23.54°W H = 12 45 35.8 s, h = 34 km, Mag = 6.0 (ISC). Dc = 110.84°, Az = 201.90°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
19	-iP epP e	19	14	23	-0.4	Southern Sumatra 1.52°S 100.51°E H = 19 01 46 s, h = 73 km, Mag = 5.2 (ISC). M (MOS) = 5, Dc = 86.72°, Az = 95.92°.
19	eP	19	41	38	-2.9	Atlantic-Indian Ridge 36.29°S 52.14°E H = 19 28 45.2 s, h = 33 km, Mag = 5.2 (ISC). Dc = 89.70°, Az = 152.37°.
19	eP	19	41	38	-2.9	Atlantic-Indian Ridge 36.29°S 52.14°E H = 19 28 45.2 s, h = 33 km, Mag = 5.2 (ISC). Dc = 89.70°, Az = 152.37°.
20	eP	00	44	56	+0.9	Near East Coast of Honshu, Japan 35.96°N 140.11°E H = 00 32 42.3 s, h = 78 km, Mag = 4.9 (ISC). Dc = 82.04°, Az = 43.39°.
20	-iPn iPg i iSn i Lm Lm	06	10	09.9	-1.8	Yugoslavia 44.40°N 17.59°E H = 06 09 12.4 s, h = 11 km, Mag = 4.1 (ISC). MLH (BRA) = 4.0, Dc = 3.78°, Az = 174.73°. LmH: 1.5 s 1.4 μm.
20	ePKIKP e e ePKS iPP eSKS Lm Lm	09	59	08	-0.1	Auckland Islands Region 49.57°S 163.93°E H = 09 39 15.7 s, h = 34 km, Mag = 5.8 (ISC). M (MOS) = 6.5, Dc = 158.23°, Az = 106.17°.
20	ePKIKP ePKP2 ePP i	10	50	47	-0.1	Auckland Islands Region 49.67°S 163.82°E H = 10 30 52.6 s, h = 19 km, Mag = 5.6 (ISC). Dc = 158.17°, Az = 106.47°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
20	e e	12	27	16		Auckland Islands Region 49.80°S 163.90°E H = 12 06 51.4 s, h = 33 km, Mag = 5.3 (ISC). Dc = 158.24°, Az = 106.79°.
20	-iPKIKP	18	58	12.7	-5.0	Kermadec Islands Region 28.64°S 175.82°W H = 18 38 26 s, h = 40 km, Mag = 4.9 (ISC). Dc = 158.09°, Az = 31.79°.
20	eP e	19	59	21	-3.2	Tristan da Cunha Region 34.06°S 14.58°W H = 19 46 43.2 s, h = 33 km, Mag = 4.9 (ISC). Dc = 86.63°, Az = 205.90°.
20	e	20	37	26		Auckland Islands Region 49.80°S 163.6°E H = 20 16 56.0 s, h = 33 km (ISC). Dc = 158.07°, Az = 106.87°. Traces.
20	iPn i iSg Lm	22	44	17.9		Czechoslovakia 48.3°N 17.2°E H = 22 44 14 s, h = 0 km (ISC). MLH (BRA) = 3.0, Dc = 0.15°, Az = 25.70°. LmH: 0.3 s 1.2 μm.
22	eP	05	11	28	+2.6	Eastern Kazakhstan 50.02°N 77.72°E H = 05 03 57.8 s, h = 0 km, Mag = 5.2 (ISC). Dc = 38.78°, Az = 63.81°.
22	-iP i i ePP	08	17	59	+0.6	Central Mid-Atlantic Ridge 0.54°S 20.09°W H = 08 08 04.4 s, h = 28 km, Mag = 5.3 (ISC). M (MOS) = 5.5, Dc = 58.24°, Az = 225.31°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
22	-iP i i i e ePP e e Lm	10	29	57.6	0.0	Kurile Islands 44.56°N 149.60°E H = 10 17 55.4 s, h = 17 km, Mag = 5.7 (ISC). M (MOS) = 6.3, MLH (BRA) = 6.2, Dc = 78.69°, Az = 32.52°. LmH: 15 s 7 μm.
22	-iP e	12	46	51.4	+0.8	Kurile Islands 44.52°N 149.55°E H = 12 34 51.4 s, h = 41 km, Mag = 5.0 (ISC). M (MOS) = 4.5, Dc = 78.70°, Az = 32.56°.
23	iPKIKP i iPKP2 ipPKP2 e	07	15	21.7	-0.7	West of Tonga 22.00°S 179.53°W
			15	29.2		H = 06 56 42.0 s, h = 580 km, Mag = 5.5 (ISC). M (MOS) = 5.5, Dc = 150.68°, Az = 32.86°.
23	ePKIKP ePKP2	07	58	29	+2.0	South of Fiji 22.00°S 179.48°W
			58	43	-5.3	H = 07 39 46.7 s, h = 583 km, Mag = 4.7 (ISC). Dc = 150.71°, Az = 32.77°.
23	eP	09	25	08	-0.6	Near Islands, Aleutian Islands 51.64°N 172.52°E
						H = 09 13 12.5 s, h = 49 km, Mag = 4.8 (ISC). Dc = 78.37°, Az = 15.35°.
23	e	12	50	10		Banda Sea 7.8°S 128.6°E
						H = 12 32 07 s, h = 151 km (ISC). Dc = 110.07°, Az = 78.98°. Traces.
24	iPg e	11	49	40.7		Local shock.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
24	eP	17	13	48	0.0	Morocco 32.44°N 5.84°W H = 17 08 41.6 s, h = 33 km, Mag = 4.4 (ISC). Dc = 23.38°, Az = 236.15°.
24	iPn i iPg eSn e Lm	22	13	00.5	-9.6	Albania 40.86°N 19.70°E
			13	22.5	-3.5	H = 22 11 20.4 s, h = 35 km, Mag = 4.6 (ISC). M (MOS) = 4.5, MLH (BRA) = 4.2, Dc = 7.54°, Az = 164.82°.
			13	40.5	-9.0	LmH: 2.7 s 0.6 μm.
			14	34		
			15	52		
			16.5			
24	iPg eSg e	22	29	28.5	-5.5	Northern Italy 45.75°N 9.39°E
			30	40		H = 22 27 44.6 s, h = 0 km, Mag = 5.0 (ISC). Dc = 5.81°, Az = 248.25°.
			31	27		
25	eP e	09	02	55	-0.4	Leeward Islands 17.63°N 61.61°W
			03	10		H = 08 51 50.3 s, h = 57 km, Mag = 5.0 (ISC). Dc = 69.60°, Az = 273.85°
26	e eSg e	05	07	34	+11.0	Albania 41.53°N 20.94°E
			09	40		H = 05 05 27.4 s, h = 30 km, Mag = 4.4 (ISC). M (MOS) = 4, Dc = 7.17°, Az = 156.29°.
			10	31		
26	e iPP e e	16	29	34	+5.0	Near Coast of Central Chile 30.10°S 71.59°W
			30	40		H = 16 11 22.4 s, h = 40 km, Mag = 5.6 (ISC). M (MOS) = 6, Dc = 110.95°, Az = 248.08°.
			31	15		
			32	22		
26	iPKIKP	17	24	46	-0.9	Solomon Islands 7.08°S 155.82°E
						H = 17 05 54.9 s, h = 92 km, Mag = 5.2 (ISC). Dc = 126.18°, Az = 54.21°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
27	-iP i e	17	12	38	-2.2	Southern Nevada $37.10^{\circ}\text{N}$ $116^{\circ}\text{W}$ Nuclear explosion "ZAZA". H = 17 00 02.4 s, h = 23 km, Mag = 5.7 (ISC). Dc = $85.41^{\circ}$ , Az = $324.15^{\circ}$ .
28	eP e	03	01	49	-1.3	Alma-Ata Region $42.13^{\circ}\text{N}$ $79.68^{\circ}\text{E}$ H = 02 53 45 s, h = 2 km, Mag = 4.8 (ISC). M (MOS) = 5.5, Dc = $43.46^{\circ}$ , Az = $73.72^{\circ}$ .
28	eP	03	12	36	-0.4	Fox Islands, Aleutian Islands $52.18^{\circ}\text{N}$ $171.09^{\circ}\text{W}$ H = 03 00 31.0 s, h = 54 km, Mag = 5.0 (ISC). Dc = $79.79^{\circ}$ , Az = $5.11^{\circ}$ .
28	+iPKIKP i i iPP e e	05	15	51	-0.4	New Britain Region $6.59^{\circ}\text{S}$ $153.47^{\circ}\text{E}$ H = 04 56 53.3 s, h = 20 km, Mag = 5.8 (ISC). M (MOS) = 6, Dc = $124.47^{\circ}$ , Az = $56.26^{\circ}$ .
28	-iP i i ePP e	15	56	18	-0.2	Gulf of Alaska $59.43^{\circ}\text{N}$ $147.12^{\circ}\text{W}$ H = 15 44 52 s, h = 4 km, Mag = 5.4 (ISC). M (MOS) = 6, Dc = $71.99^{\circ}$ , Az = $351.60^{\circ}$ .
29	eP	05	32	03	+2.8	Off Coast of Central America $12.39^{\circ}\text{N}$ $91.17^{\circ}\text{W}$ H = 05 18 49 s, h = 21 km, Mag = 5.2 (ISC). Dc = $92.68^{\circ}$ , Az = $291.76^{\circ}$ .
29	e	11	54	36		Salta Province, Argentina $24.6^{\circ}\text{N}$ $65.1^{\circ}\text{W}$ H = 11 42 39 s, h = 33 km (ISC). Dc = $67.03^{\circ}$ , Az = $281.61^{\circ}$ . Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29	-i i	15	30	32.6		New Britain Region $6.34^{\circ}\text{S}$ $153.4^{\circ}\text{E}$ H = 15 13 27 s, h = 51 km, Mag = 4.7 (USCGS). Dc = $124.23^{\circ}$ , Az = $56.17^{\circ}$ . Traces.
29	eP e e	17	42	27	+1.8	Atlantic-Indian Ridge $31.87^{\circ}\text{S}$ $57.30^{\circ}\text{E}$ H = 17 29 39.3 s, h = 26 km, Mag = 4.8 (ISC). Dc = $87.43^{\circ}$ , Az = $146.66^{\circ}$ .
30	+eP e e e	08	09	41	0.0	Ryukyu Islands $29.01^{\circ}\text{N}$ $129.94^{\circ}\text{E}$ H = 07 57 22.9 s, h = 53 km, Mag = 5.5 (ISC). M (MOS) = 5.5, Dc = $82.48^{\circ}$ , Az = $54.52^{\circ}$ .
30	e	09	18	12		New Britain Region $6.44^{\circ}\text{S}$ $153.4^{\circ}\text{E}$ H = 09 09 35.6 s, h = 41 km, Mag = 4.9 (ISC). Dc = $124.31^{\circ}$ , Az = $56.23^{\circ}$ . Traces.
30	e	15	46	30		West of Gibraltar $36.6^{\circ}\text{N}$ $8.9^{\circ}\text{W}$ H = 15 45 07 s, h = 33 km (ISC). Dc = $22.31^{\circ}$ , Az = $248.37^{\circ}$ . Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	iPKIKP	12	15	36	+4.6	Tonga 15.10°S 173.99°W H = 11 56 01.5 s, h = 75 km, Mag = 4.5 (ISC). Dc = 145.77°, Az = 19.30°.
1	ePn e	22	47	09	-0.3	Northern Italy 44.57°N 10.95°E H = 22 45 46.9 s, h = 50 km, Mag = 4.1 (ISC). Dc = 5.57°, Az = 232.07°.
2	+iPKIKP i i iPKP2 ipPKP2	00	31	31.3	+0.3	West of Tonga 20.87°S 178.77°W H = 00 12 51.3 s, h = 579 km, Mag = 5.3 (ISC). Dc = 149.91°, Az = 30.68°.
2	ePKIKP	15	13	07	+1.5	New Britain Region 6.68°S 153.37°E H = 14 54 09 s, h = 32 km, Mag = 5.2 (ISC). Dc = 124.50°, Az = 56.43°.
2	ePn ePg eSn eSg Lm	20	14	53	-1.2	Southern Italy 41.55°N 14.10°E H = 20 13 01 s, h = 18 km, Mag = 4.5 (ISC). Dc = 6.95°, Az = 198.97°.
3	-iP e i ePP	18	22	04.9	-0.3	Costa Rica 10.94°N 85.92°W H = 18 16 05.8 s, h = 35 km, Mag = 5.6 (ISC). M (MOS) = 6.2. Dc = 90.46°, Az = 286.90°.
4	i i	15	34	04.7		Local shock. Traces.
4	ePKIKP e e e ePP e Lm	17	40	20	+5.9	New Ireland Region 5.66°S 153.92°E H = 17 21 20.4 s, h = 44 km, Mag = 5.8 (ISC). M (MOS) = 6.9. Dc = 123.95°, Az = 55.19°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
5	i	10	40	22.6		Local shock. Traces.
5	eP	12	03	21	-7.4	Ionian Sea 37.74°N 20.80°E H = 12 00 53.7 s, h = 37 km, Mag = 5.0 (ISC). M (MOS) = 4.9. Dc = 10.76°, Az = 164.13°.
5	eP	16	07	02	+1.3	Kurile Islands 45.42°N 150.71°E H = 15 55 04.2 s, h = 46 km, Mag = 5.3 (ISC). Dc = 78.34°, Az = 31.38°.
7	-iP i iPcP e	08	39	52	+1.3	Kurile Islands 49.15°N 156.23°E H = 08 27 59.5 s, h = 22 km, Mag = 5.4 (ISC). M (MOS) = 5.2. Dc = 76.82°, Az = 26.19°.
7	-iP iPcP e	09	18	41.9	+0.1	Kurile Islands 49.16°N 156.26°E H = 09 06 50.9 s, h = 23 km, Mag = 5.1 (ISC). M (MOS) = 5. Dc = 76.83°, Az = 26.19°.
7	-iPKIKP i	10	51	46	+1.6	West of Tonga 17.15°S 178.92°W H = 10 33 07.7 s, h = 549 km, Mag = 4.9 (ISC). Dc = 146.39°, Az = 28.48°.
8	ePKIKP	17	18	32	-0.3	Eastern New Guinea Region 9.49°S 148.84°E H = 16 59 35.3 s, h = 23 km, Mag = 5.5 (ISC). M (MOS) = 5. Dc = 124.14°, Az = 62.81°.
8	ePKIKP e e	18	27	11	+1.8	New Ireland Region 5.60°S 153.98°E H = 18 08 17.5 s, h = 60 km, Mag = 5.4 (ISC). M (MOS) = 5.7. Dc = 123.94°, Az = 55.09°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
8	eP	21	21	03	+0.8	Kurile Islands 49.19°N 156.26°E H = 21 09 13.0 s, h = 35 km, Mag = 4.9 (ISC). Dc = 76.80°, Az = 26.15°.
9	+iP	14	21	42.5	+1.2	Kamchatka 53.93°N 155.23°E H = 14 10 57.9 s, h = 401 km, Mag = 5.1 (ISC). Dc = 72.28°, Az = 24.48°.
9	+iPKIKP i i ipPKIKP iSKP2 isPP i Lm	17	40 40 41 42 43 47 49 18	23 29 28 38 05 26 26 09.5	-0.2  -11.0 +5.0 -5.0	West of Tonga 21.10°S 179.18°W H = 17 21 46.2 s, h = 605 km, Mag = 6.2 (ISC). Dc = 149.99°, Az = 31.56°.
9	ePKIKP	18	51	44	-0.3	West of Tonga 21.15°S 179.20°W H = 18 33 08.2 s, h = 624 km, Mag = 4.9 (ISC). Dc = 150.02°, Az = 31.63°.
10	e e	14	50	11		Local shock. Traces.
12	ePKIKP e ePKP2 epPKP2 e	06	53 53 53 56 57	41 49 55 21 48	-0.1  +7.0 +5.0	West of Tonga 21.10°S 179.13°W H = 06 35 06.7 s, h = 633 km, Mag = 5.5 (ISC). Dc = 150.00°, Az = 31.48°.
12	ePg	09	12	25		Local shock.
12	iPg i	09	48	00		Local shock.
12	+iP i i epP iPP epPP	13	04 04 04 06 07 09	28 36 42 14 21 25	-0.3  0.0 +1.0	Northwest of Kurile Islands 52.15°N 152.57°E H = 12 53 45.9 s, h = 466 km, Mag = 5.5 (ISC). Dc = 73.08°, Az = 26.85°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	ePg	13	20	12		Local shock.
12	ePKIKP e ePP e e	18	49 50 50 51 52	59 06 45 45 27	-5.4 0.0	Banda Sea 7.15°S 129.83°E H = 18 31 39.0 s, h = 60 km, Mag = 6.0 (ISC). Dc = 110.39°, Az = 77.55°.
14	eP e ePcP	03	42 42 42	11 23 35	-0.8 -2.2	Leeward Islands 17.33°N 60.89°W H = 03 31 06.7 s, h = 42 km, Mag = 5.3 (ISC). Dc = 69.33°, Az = 273.10°.
15	-iP i isP iPP e e	08	13 14 14 17 18 23 24	30.2 10.7 42.2 07 42 15 30	-1.6 +4.0 +2.0	Nicaragua 11.91°N 85.98°W H = 08 00 52.6 s, h = 181 km, Mag = 6.2 (ISC). M (MOS) = 6, mPV (BRA) = 6.4, Dc = 89.77°, Az = 287.50°. PV: 9 s 0.25 μm.
15	ePKIKP	23	23	06.3	+12.2	Tonga 17.57°S 173.26°W H = 23 03 15.3 s, h = 40 km, Mag = 4.5 (ISC). Dc = 148.33°, Az = 19.08°.
16	e	11	53	48		Local shock. Traces.
16	eP	13	39	46	+8.6	Vancouver Island Region 49.21°N 129.93°W H = 13 27 37.7 s, h = 32 km, Mag = 5.4 (ISC). M (MOS) = 5, Dc = 78.66°, Az = 338.68°.
18	eP ePP e e ePKKP Lm	01	18 19 27 35 43 46	10 21 31 31 15	-1.1 0.0 +2.0	Greenland Sea 79.81°N 2.9°E H = 01 11 45.8 s, h = 42 km, Mag = 5.7 (ISC). M (MOS) = 6, Dc = 32.16°, Az = 355.29°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
18	eP e e	08 02 03	00 22 13	35	+7.0	Oaxaca, Mexico 16.7°N 97.59°W H = 07 47 16 s, h = 79 km, Mag = 3.8 (ISC). Dc = 93.20°, Az = 299.30°.
18	iPg iSn i e	18 57 57 57	57 32.7 37.2 43	29.7	+6.0	Austria 47.9°N 16.3°E H = 18 57 12 s (BCIS). Dc = 0.60°, Az = 243.87°.
18	ePKIKP	22	26	19	-1.9	South of Kermadec Islands 33.90°S 179.36°W H = 22 06 23.4 s, h = 24 km, Mag = 5.3 (ISC). Dc = 161.15°, Az = 46.86°.
20	ePKHKP	16	15	24		West of Tonga 20.52°S 178.03°W H = 15 56 33.5 s, h = 556 km, Mag = 4.8 (ISC). Dc = 149.83°, Az = 29.15°.
21	iP i e eS eSSS eL	05 07 08 11 13 18	06 37.8 18 11 11 24	12.3	+0.1  -1.0  +2.0	Novaya Zemlya Underground explosion (UPP). 73.40°N 54.42°E H = 04 59 58.4 s, h = 0 km, Mag = 5.9 (ISC). MLH (BRA) = 5.6, Dc = 30.17°, Az = 20.29°. LmH: 2.4 s, 0.6 μm.
21	ePn ePg eSn Lm	16	56 56 57 58.5	11 37 07	-1.9 -1.3 0,0	Yugoslavia 43.1°N 16.9°E H = 16 54 56 s, h = 16 km, Mag = 4.3 (USCGS). Dc = 5.06°, Az = 181.70°.
22	e e	06	55 56	47 40		Ecuador 0.72°S 78.7°W H = 06 39 05.3 s, h = 33 km, Mag = 3.9 (ISC). Dc = 94.41°, Az = 273.84°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
22	eP	18	57	15	-0.7	North Atlantic Ridge 30.95°N 41.49°W H = 18 48 44.7 s, h = 33 km, Mag = 4.9 (ISC). Dc = 47.17°, Az = 270.78°.
23	eP	03	05	32	+0.9	Kurile Islands 43.34°N 146.98°E H = 02 23 32.9 s, h = 51 km, Mag = 5.0 (ISC). M (MOS) = 5, Dc = 78.76°, Az = 34.81°.
23	iP i i epP ePP	08 39 39 40 42	39 15 52.5 50 30	04.5	+0.3  -2.0  -3.0	Bonin Islands Region 28.87°N 139.27°E H = 08 27 07.3 s, h = 475 km, Mag = 5.3 (ISC). Dc = 87.47°, Az = 48.00°.
24	+iPKIKP iPKP2	03 33	32	53 32	-0.6 -2.0	Kermadec Islands Region 31.48°S 179.65°W H = 03 12 24.1 s, h = 231 km, Mag = 5.1 (ISC). Dc = 159.02°, Az = 43.46°.
24	e	07	34	44		Poland 50.27°N 18.97°E H = 07 33 07 s (ISC), M = 2.5 (WAR). Dc = 2.43°, Az = 29.47°.
24	-iP iPcP i	11 04 04	04 17 36	03.3	+1.1 +10.0	Southern Sumatra 3.09°S 101.47°E H = 10 51 14.9 s, h = 63 km, Mag = 5.3 (ISC). M (MOS) = 5.7, Dc = 88.52°, Az = 96.24°.
24	ePg eSn Lm	16	18 18 19	35 59 11	+2.0 -1.0	Yugoslavia 45.0°N 16.6°E H = 16 17 35 s, h = 0 km (ISC). Dc = 3.21°, Az = 186.46°.

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Date	Phase	h	m	s	Res.. (O-C)	Remarks
25	-iP	01	11	33.8	-0.6	Taiwan Region 24.43°N 122.25°E H = 00 59 23.3 s, h = 73 km, Mag = 6.0 (ISC). MLH (BRA) = 6.8, mPV (BRA) = 6.4, Dc = 81.60°, Az = 62.80°. LmH: 15 s 40 μm. PV: 2.7 s 1 μm.
	i		11	41.3		
	i		12	56		
	i		13	14.3	+1.0	
	iSKS		21	44.3		
	Lm		53.5			
25	+eP	09	33	53	+1.6	Rat Islands, Aleutian Islands 51.49°N 176.40°E H = 09 21 47 s, h = 19 km, Mag = 4.7 (ISC). Dc = 79.15°, Az = 13.01°.
26	-eP	00	34	34	-0.2	Taiwan Region 24.45°N 122.34°E H = 00 22 21.7 s, h = 64 km, Mag = 5.5 (ISC). M (MOS) = 5.5, Dc = 81.64°, Az = 62.72°.
	epP		34	52	-2.7	
	e		35	34		
	e		36	08		
26	eP	04	58	55	-1.8	Turkey 37.22°N 29.05°E H = 04 55 39.3 s, h = 46 km, Mag = 4.9 (ISC). M (MOS) = 5, Dc = 14.01°, Az = 136.97°.
	ePP		59	04	-4.0	
	e		59	36		
	e		00	43		
	eS		01	16	-16.0	
	Lm		05.5			
26	eP	12	32	33	-5.2	Leeward Islands 17.72°N 60.98°W H = 12 21 34.7 s, h = 46 km, Mag = 5.3 (ISC). Dc = 69.12°, Az = 273.46°.
26	eP	13	55	53	+3.4	Leeward Islands 17.63°N 61.08°W H = 13 44 47.8 s, h = 59 km, Mag = 5.3 (ISC). Dc = 69.25°, Az = 273.46°.
26	iP	17	35	55.3	-1.5	Molucca Sea 0.18°S 125.14°E H = 17 22 05 s, h = 42 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 102.10°, Az = 76.52°.
26	e	36	36	09		

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Date	Phase	h	m	s	Res. (O-C)	Remarks
26	eP	20	29	52	+4.2	North Atlantic Ridge 17.34°N 46.57°W H = 20 19 43.3 s, h = 28 km, Mag = 4.7 (ISC). Dc = 59.77°, Az = 262.26°.
27	eP	08	10	40	+0.2	Western Persia 34.34°N 46.18°E
	e		10	45		H = 08 05 16.4 s, h = 86 km, Mag = 4.9 (ISC). M (MOS) = 4.1, Dc = 25.68°, Az = 111.86°.
	epP		11	01	0.0	
28	eP	18	51	37	-0.8	North Atlantic Ridge 24.94°N 45.89°W
30	i	51	51	42.5		H = 18 42 15 s, h = 38 km, Mag = 4.9 (ISC). Dc = 54.02°, Az = 268.19°.
	e		53	10		
	ePKIKP	02	56	24	+2.5	Loyalty Islands Region 22.01°S 170.16°E
31	ePKIKP	10	56	45		H = 02 36 45.9 s, h = 34 km, Mag = 4.6 (ISC). Dc = 146.16°, Az = 49.03°.
	e		56	53		
	e		34	23	+1.8	South of Fiji 19.75°S 177.37°E
31	ePKIKP	34	34	41		H = 10 14 43.6 s, h = 36 km, Mag = 5.4 (ISC). Dc = 147.46°, Az = 36.25°.
	e		35	12		
	ePn	21	10	46		Sicily 37.84°N 14.60°E
31	Lm	20.5				H = 21 08 07.6 s, h = 38 km, Mag = 5.0 (ISC). M (MOS) = 5, Dc = 10.48°, Az = 190.96°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
3	-ePKIKP e e e e esPKIKP	07	51	56	+1.6	New Hebrides $18.67^{\circ}$ S $169.07^{\circ}$ E H = 07 32 49.0 s, h = 216 km, Mag = 5.3 (ISC). Dc = $142.80^{\circ}$ , Az = $47.48^{\circ}$ .
3	ePn e Lm	13	21	20	-5.2	Yugoslavia $45.5^{\circ}$ $14.6^{\circ}$ E H = 13 20 33 s (BCIS). Dc = $3.18^{\circ}$ , Az = $213.71^{\circ}$ .
3	iPg i i i	15	35	26.2		Local shock.
4	-iPKIKP i i i i iPP	10	35	55	+4.6	West of Tonga $17.81^{\circ}$ S $178.99^{\circ}$ W H = 10 17 14.5 s, h = 568 km, Mag = 5.3 (ISC). Dc = $146.99^{\circ}$ , Az = $29.00^{\circ}$ .
4	-iP i e iPP	13	39	03	+1.0	Near East Coast of Honshu, Japan $37.39^{\circ}$ N $141.71^{\circ}$ E H = 13 26 47.6 s, h = 43 km, Mag = 5.5 (ISC). M (MOS) = 5.9, Dc = $81.59^{\circ}$ , Az = $41.51^{\circ}$ .
4	-iP i e eSKS Lm	14	42	32	+0.4	Hokkaido, Japan Region $43.35^{\circ}$ N $144.19^{\circ}$ E H = 14 30 39.2 s, h = 50 km, Mag = 5.7 (ISC). M (MOS) = 6.5, MLH (BRA) = 6.1, mPV (BRA) = 6.5, Dc = $77.66^{\circ}$ , Az = $36.56^{\circ}$ . LmH: 10 s 3.9 $\mu$ m. PV: 1 s 0.5 $\mu$ m.
4	eP e	14	58	00	+2.5	Hokkaido, Japan Region $43.53^{\circ}$ N $144.02^{\circ}$ E H = 14 46 02.5 s, h = 39 km, Mag = 5.5 (ISC). Dc = $77.45^{\circ}$ , Az = $36.57^{\circ}$ ,

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Date	Phase	h	m	s	Res. (O-C)	Remarks
4	iP i	16	40	03.3	+1.0	Peru-Ecuador Border Region $2.73^{\circ}$ S $77.69^{\circ}$ W H = 16 26 48.0 s, h = 94 km, Mag = 5.7 (ISC). Dc = $95.22^{\circ}$ , Az = $271.74^{\circ}$ .
6	ePn e	10	35	22	+3.5	Greece-Albania Border Region $39.05^{\circ}$ N $20.61^{\circ}$ E H = 10 32 58 s, h = 1 km, Mag = 4.6 (ISC). Dc = $9.46^{\circ}$ , Az = $163.17^{\circ}$ .
7	-iPKIKP i e e	04	08	55	+3.5	Samoa $14.85^{\circ}$ S $172.90^{\circ}$ W H = 03 49 16 s, h = 32 km, Mag = 5.5 (ISC). Dc = $145.77^{\circ}$ , Az = $17.37^{\circ}$ .
7	e	15	21	30		Near shock. Traces.
7	e e	20	05	30		Afghanistan-USSR Border Region $37.14^{\circ}$ N $71.70^{\circ}$ E H = 19 57 25.9°, h = 126 km, Mag = 5.0 (ISC). Dc = $40.84^{\circ}$ , Az = $84.87^{\circ}$ .
8	eP	17	21	37	+2.7	Rat Islands, Aleutian Islands $51.13^{\circ}$ N $178.52^{\circ}$ E H = 17 09 23 s, h = 1 km, Mag = 5.4 (ISC). M (MOS) = 6, Dc = $79.81^{\circ}$ , Az = $11.77^{\circ}$ .
8	eP	17	34	43	+1.1	Rat Islands, Aleutian Islands $51.12^{\circ}$ N $178.47^{\circ}$ E H = 17 22 36.9 s, h = 41 km, Mag = 5.1 (ISC). M (MOS) = 5.5, Dc = $79.81^{\circ}$ , Az = $11.81^{\circ}$ .
8	e	17	44	40		Northern Italy $45.5^{\circ}$ N $10.4^{\circ}$ E H = 17 42 15 s, h = 0 km (ISC). Dc = $5.32^{\circ}$ , Az = $242.36^{\circ}$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
9	eP e	18	31 32	41 15	-9.9	Near East Coast of Honshu, Japan 35.54°N 140.12°E H = 18 19 35.3 s, h = 69 km, Mag = 5.3 (ISC). Dc = 82.40°, Az = 43.62°.
10	eP e e e ePP e	18	49 50 50 51 52 53	58 03 22 00 45 30	-1.4     +4.0	Chagos Archipelago Region 6.03°S 71.34°E H = 18 38 34 s, h = 9 km, Mag = 5.2 (ISC). M (MOS) = 5.4, Dc = 71.84°, Az = 121.87°.
11	-eP	02	37	18	0.0	Uganda 2.02°N 31.48°E H = 02 28 44.4 s, h = 33 km, Mag = 5.3 (ISC). Dc = 47.62°, Az = 160.37°.
11	-e e	11	21	11 23		Czechoslovakia Explosion of 30.8 Tons. 50.58°N 14.05°E H = 11 19 00 s (PRÚ). Traces.
11	+eP e e	12	07 07 08	14 20 23	-2.5	Chagos Archipelago Region 6.01°S 71.36°E H = 11 55 56 s, h = 36 km, Mag = 5.3 (ISC). M (MOS) = 6, Dc = 71.85°, Az = 121.87°.
11	eP e e	18	11 12 13	20 08 37	-2.4	Chagos Archipelago Region 6.10°S 71.32°E H = 17 59 57 s, h = 11 km, Mag = 5.4 (ISC). M (MOS) = 5.7, Dc = 71.89°, Az = 121.93°.
12	-iP	02	39	13	-1.9	Kurile Islands 44.81°N 149.83°E H = 02 27 20.0 s, h = 70 km, Mag = 5.2 (ISC). Dc = 78.55°, Az = 32.24°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	iPKIKP iPKP2 i i e	10	56 56 57 58 59	28.5 41.5 27 13.5 14	-2.3 +2.0	Tonga Region 17.19°S 171.98°W H = 10 36 51 s, h = 28 km, Mag = 5.6 (ISC). Dc = 148.22°, Az = 16.65°.
12	iP i	12	44 44	28.7 45.2	-1.5	Northern Sumatra 5.54°N 94.79°E H = 12 23 46 s, h = 131 km, Mag = 4.5 (ISC). Dc = 77.68°, Az = 95.49°.
12	ePKIKP e e	17	44 44 45	11 53 20	+0.7	Loyalty Islands Region 22.82°S 170.74°E H = 17 24 34.2 s, h = 43 km, Mag = 4.9 (ISC). Dc = 147.13°, Az = 49.02°.
14	ePKIKP e	05	47 48	04 36	+2.0	Eastern New Guinea Region 5.46°S 147.05°E H = 05 28 36.4 s, h = 194 km, Mag = 5.6 (ISC). Dc = 119.87°, Az = 61.67°.
15	ePn e ePg e	15	37 37 37 37	40 44 47 54		Local shock.
15	e e ePP e e	21	49 50 51 52 53	50 15 00 14 44	-3.0	Near Coast of Central Chile 28.78°S 71.19°W H = 21 31 54.5 s, h = 35 km, Mag = 5.9 (ISC). M (MOS) = 6.3, Dc = 109.77°, Az = 248.82°.
17	eP e ePP e	05	07 08 09 11	53 02 43 05	+0.1 -6.0	North Atlantic Ridge 28.51°N 43.83°W H = 04 58 54 s, h = 9 km, Mag = 5.2 (ISC). M (MOS) = 5.4, Dc = 50.29°, Az = 270.02°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
19	-iP iPCP i ePP e	12	19	17.3	+0.2	Near East Coast of Honshu, Japan 36.47°N 141.17°E H = 12 07 00.4 s, h = 48 km, Mag = 5.7 (ISC). M (MOS) = 5.8, mPV (BRA) = 6.1, Dc = 82.10°, Az = 42.39°. PV: 1.8 s 0.3 μm.
19	iPKIKP i i i e ePP e Lm	17	49	02	+3.3	Loyalty Islands Region 22.56°S 170.84°E H = 17 29 22.1 s, h = 37 km, Mag = 5.3 (ISC). M (MOS) = 6.3, Dc = 146.96°, Az = 48.62°.
19	ePKIKP e	18	09	02	+4.8	Loyalty Islands Region 22.51°S 170.83°E H = 17 49 23 s, h = 54 km (ISC), Mag = 4.5 (USCGS). Dc = 146.91°, Az = 48.58°.
20	ePKIKP e e	02	31	06	+4.7	Tonga 15.33°S 174.05°W H = 02 11 25.8 s, h = 33 km, Mag = 4.7 (ISC). Dc = 145.98°, Az = 19.49°.
20	eP	10	26	31	-1.1	Sea of Okhotsk 51.06°N 151.42°E H = 10 15 43.3 s, h = 434 km, Mag = 4.8 (ISC). Dc = 73.67°, Az = 28.07°.
20	eP e i	11	01	06	+1.7	South of Honshu, Japan 32.06°N 140.95°E H = 10 48 31.1 s, h = 59 km, Mag = 5.1 (ISC). Dc = 85.65°, Az = 45.01°.
21	eP e e	09	03	00	-2.3	North of Ascension Island 0.07°N 16.99°W H = 08 53 23.0 s, h = 5.0 (ISC), Mag = 5.0 (ISC). Dc = 56.28°, Az = 222.38°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
21	-iP i iPP i iS i Lm	17	07	47.5	+0.9	Norwegian Sea 72.66°N 8.14°E H = 17 02 25.8 s, h = 33 km, Mag = 5.4 (ISC). M (MOS) = 5, MLH (BRA) = 5.1, mPH (BRA) = 5.7, Dc = 24.91°, Az = 353.63°. LmH: 4 s 1 μm. PH: 3.5 s 0.7 μm.
21	eP	21	56	27	-1.7	North Atlantic Ridge 48.10°N 27.78°W H = 21 50 25 s, h = 40 km, Mag = 4.8 (ISC). Dc = 29.64°, Az = 286.93°.
22	ePKIKP e e e ePP e	15	39	04	+0.7	Loyalty Islands Region 22.67°S 170.96°E H = 15 19 26.1 s; h = 34 km, Mag = 5.5 (ISC). M (MOS) = 6, Dc = 144.86°, Az = 51.72°.
22	ePKIKP	17	00	17	+4.4	Loyalty Islands Region 22.85°S 170.94°E H = 16 40 36.7 s, h = 46 km, (ISC). Mag = 4.5 (NOU). Dc = 145.00°, Az = 51.92°.
23	iP i iPP i i	08	44	02	-2.0	Eastern Gulf of Aden 14.48°N 51.98°E H = 08 35 54.7 s, h = 28 km, Mag = 5.9 (ISC). M (MOS) = 6.5, mPV (BRA) = 6.3, Dc = 44.23°, Az = 131.99°. PV: 2.1 s 0.4 μm.
23	+iP iPP iPPP i iS i L Lm	13	48	35.2	-0.9	North of Svalbard 80.20°N 0.7°W H = 13 42 02.6 s, h = 16 km, Mag = 5.7 (ISC). M (MOS) = 6, MLH (BRA) = 5.8, Dc = 32.75°, Az = 353.35°. LmH: 10 s 10 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
24	e	09	02	12		Czechoslovakia Explosion. $50.76^{\circ}$ N $14.43^{\circ}$ E H = 09 00 00 s (PRÚ). Dc = $4.07^{\circ}$ , Az = $294.94^{\circ}$ .
26	eP e Lm	00	20 21 01	39 09 00.5	+6.7	Ryukyu Islands $28.55^{\circ}$ N $130.00^{\circ}$ E H = 00 08 08.9 s, h = 25 km, Mag = 5.6 (ISC). M (MOS) = 6.1, Dc = $82.87^{\circ}$ , Az = $54.76^{\circ}$ .
26	ePn e e e	03	27 28 30 31	09 24 36 24	-0.2	Greece-Albania Border Region $39.40^{\circ}$ N $20.49^{\circ}$ E H = 03 24 57.4 s, h = 37 km, Mag = 4.9 (ISC). Dc = $9.10^{\circ}$ , Az = $163.19^{\circ}$ .
26	iPKIKP ipPKIKP e	12	15 15 16	32.7 46.7 18	+4.5 -10.0	Loyalty Islands Region $22.80^{\circ}$ S $171.36^{\circ}$ E H = 11 55 54.7 s, h = 67 km, Mag = 4.6 (ISC). Dc = $147.42^{\circ}$ , Az = $51.31^{\circ}$ .
27	iPKIKP ePKP2 e	08	38 38 39	27 49 11	-0.4 +6.0	Tonga $21.23^{\circ}$ S $174.22^{\circ}$ W H = 08 18 43.7 s, h = 39 km, Mag = 5.3 (ISC). M (MOS) = 5.5, Dc = $149.81^{\circ}$ , Az = $21.61^{\circ}$ .
27	eP	13	12	34	+7.5	Eastern Gulf of Aden $14.11^{\circ}$ N $51.89^{\circ}$ E H = 13 04 17 s, h = 36 km, Mag = 4.7 (ISC). Dc = $43.55^{\circ}$ , Az = $132.37^{\circ}$ .
28	eP epP e e	02	48 49 49 52	59 29 59 36	+5.5 +1.0	Kyushu, Japan $32.13^{\circ}$ N $130.84^{\circ}$ E H = 02 36 55.3 s, h = 137 km, Mag = 5.3 (ISC). M (MOS) = 5.3, Dc = $78.25^{\circ}$ , Az = $54.22^{\circ}$ .
30	-iPn i	07	25 25	35.8 43.3	-0.6	Albania $41.41^{\circ}$ N $20.44^{\circ}$ E H = 07 23 50.4 s, h = 21 km, Mag = 5.9 (ISC). Dc = $7.77^{\circ}$ , Az = $178.92^{\circ}$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
30	iPn i i	07	44 44 44	34 43 49.3	-3.6	Albania $41.43^{\circ}$ N $20.49^{\circ}$ E H = 07 42 52 s, h = 21 km, Mag = 4.7 (ISC). Dc = $7.76^{\circ}$ , Az = $178.63^{\circ}$ .
30	iPn	07	55	37.5	+2.1	Albania $41.38^{\circ}$ N $20.60^{\circ}$ E H = 07 53 49.6 s, h = 39 km, Mag = 4.3 (ISC). Dc = $7.81^{\circ}$ , Az = $178.03^{\circ}$ .
30	iP i	11	25 25	05 21.5	-1.1	Central Mid-Atlantic Ridge $0.4^{\circ}$ N $25.9^{\circ}$ W H = 11 14 57.8 s, h = 33 km, Mag = 4.8 (ISC). Dc = $62.63^{\circ}$ , Az = $234.29^{\circ}$ .
30	ePKIKP	16	06	15	+0.5	West of Tonga $17.99^{\circ}$ S $178.24^{\circ}$ W H = 15 47 45.3 s, h = 646 km, Mag = 4.7 (ISC). Dc = $145.47^{\circ}$ , Az = $32.17^{\circ}$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1-4						The apparatus was out of order.
4	iPg i iPn iSg iSn	08 54 55 55 55	59 04 07 16 20.5			Little Carpathians Aftershock of earthquake on December 3, 1967. Time relative. $48.7^{\circ}$ N $17.5^{\circ}$ E H = 08 54 48 s (BCIS). Dc = $0.6^{\circ}$ , Az = $26.16^{\circ}$ .
5	+iP	09	17	20	-0.5	Andreanof Islands $51.64^{\circ}$ N $173.48^{\circ}$ W H = 09 05 13.4 s, h = 39 km, Mag = 5.3 (ISC). Dc = $80.16^{\circ}$ , Az = $80.16^{\circ}$ .
6	iPKIKP iPKP2	05 22	22 36			West of Tonga Time relative. $21.26^{\circ}$ S $178.75^{\circ}$ W H = 05 03 40.9 s, h = 558 km, Mag = 5.0 (ISC). Dc = $150.28^{\circ}$ , Az = $30.93^{\circ}$ .
7	iPKIKP	10	00	43	-2.0	Tonga $16.77^{\circ}$ S $174.00^{\circ}$ W H = 09 41 11.8 s, h = 103 km, Mag = 5.1 (ISC). Dc = $147.39^{\circ}$ , Az = $20.02^{\circ}$ .
7	iPKIKP	10	08	44.4	+1.9	New Hebrides $14.61^{\circ}$ S $167.21^{\circ}$ E H = 09 49 37.1 s, h = 152 km, Mag = 5.2 (ISC). Dc = $138.42^{\circ}$ , Az = $46.64^{\circ}$ .
7	iPg	11	34	30.5		Local shock.
7	ePn i iPg iSn Lm	18 05 05 06 07.6	22 35 52 40 0.0		-0.7 -1.0 0.0	Albania $41.27^{\circ}$ N $20.24^{\circ}$ E H = 18 03 35 s, h = 32 km, Mag = 4.7 (ISC). Dc = $7.25^{\circ}$ , Az = $160.93^{\circ}$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
9	iPn i iPg i iSn Lm	03	11 11 11 12 12 14.2	31 37 55 11.9 38 14.2	+4.3 +4.0 +1.0 +2.0	Adriatic Sea $42.00^{\circ}$ N $16.41^{\circ}$ E H = 03 09 56.0 s, h = 66 km, Mag = 4.6 (ISC). MLH (BRA) = 4.4, Dc = $6.19^{\circ}$ , Az = $184.81^{\circ}$ . LmH: 2.7 s 1.7 $\mu$ m.
9	e	05	47	43		South of Fiji $22.28^{\circ}$ S $179.26^{\circ}$ W H = 05 28 37.4 s, h = 571 km, Mag = 4.9 (ISC). Dc = $151.04^{\circ}$ , Az = $32.61^{\circ}$ .
9	iPKIKP e e e	08	13 14 14 15	57.7 08 16 04	+1.6	Tonga $15.23^{\circ}$ S $173.16^{\circ}$ W H = 07 54 20.4 s, h = 33 km, Mag = 4.9 (ISC). Dc = $146.08^{\circ}$ , Az = $17.95^{\circ}$ .
9	ePn	09	19	20	-6.8	Yugoslavia $45.3^{\circ}$ N $14.6^{\circ}$ E H = 09 18 32 s, h = 0 km (ISC). Dc = $3.34^{\circ}$ , Az = $211.90^{\circ}$ .
9	ePP e	11	12	31 55	-3.0	Santa Cruz Islands Region $10.88^{\circ}$ S $164.21^{\circ}$ E H = 10 50 46.9 s, h = 33 km, Mag = 5.5 (ISC). M (MOS) = 5.5, Dc = $133.74^{\circ}$ , Az = $47.60^{\circ}$ .
10	iP iPcP i i iPP	12	19 19 20 20 22	30.2 38 00 08 57	-0.1 +2.0 +5.0	Near Coast of Northern California $40.58^{\circ}$ N $124.53^{\circ}$ W H = 12 06 52.2 s, h = 10 km, Mag = 5.5 (ISC). M (MOS) = 5.6, Dc = $85.32^{\circ}$ , Az = $331.68^{\circ}$ .
10	+iP i iPP i iS i eSS Lm	23	00 01 02 03 04 06 08 12 32.5	52.6 20 58 27 09 30 06 16	-2.1 -1.0 -1.0 -1.0	India $17.54^{\circ}$ N $73.84^{\circ}$ E H = 22 51 23.3 s, h = 27 km, Mag = 5.9 (ISC). M (MOS) = 6.7, MLH (BRA) = 6.7, mPV (BRA) = 6.2, Dc = $55.05^{\circ}$ , Az = $103.28^{\circ}$ . LmH: 15 s 70 $\mu$ m, PV: 1 s 0.2 $\mu$ m.

December 1967

Bratislava

Date	Phase	h	m	s	Res. (O-C)	Remarks
11	eP epP e	19	56	55	-0.2	Eastern Gulf of Aden 13.61°N 51.58°E H = 19 48 49 s, h = 85 km, Mag = 5.0 (ISC). M (MOS) = 5, Dc = 44.75°, Az = 128.57°.
11	-iP i ipP iPP i	22	38	29	-1.1	Eastern Gulf of Aden 13.65°N 51.56°E H = 22 30 21 s, h = 57 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 44.70°, Az = 128.56°.
12	eP e	03	31	12	-1.0	Carlsberg Ridge 5.69°N 61.48°E H = 03 22 32.2 s, h = 33 km, Mag = 5.0 (ISC). Dc = 56.69°, Az = 123.60°.
12	iPKIKP iPKP2 i i i	08	25	58	+3.1	Loyalty Islands Region 22.84°S 171.16°E H = 08 06 18 s, h = 41 km, Mag = 5.1 (ISC). Dc = 147.35°, Az = 48.44°.
13	eSg	10	43	58	+4.0	Yugoslavia 45.88°N 14.82°E H = 10 42 28 s (LJU). Dc = 2.77°, Az = 215.17°.
13	iP i i	10	50	02.7	-0.9	Kurile Islands 47.65°N 152.65°E H = 10 38 25.3 s, h = 142 km, Mag = 5.5 (ISC). Dc = 77.04°, Az = 29.07°.
13	iP	11	09	54.8	-0.1	Kurile Islands 49.36°N 154.46°E H = 10 58 22.2 s, h = 144 km, Mag = 5.1 (ISC). Dc = 76.11°, Az = 27.15°.
16	eP e e	21	05	41	-1.0	Near East Coast of Kamchatka 51.21°N 157.72°E H = 20 54 03.7 s, h = 69 km, Mag = 5.5 (ISC). mPV (BRA) = 5.8, Dc = 75.40°, Az = 24.36°. PV: 2 s 0.16 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
17	-iP iPP	00	32	52	+0.4	Afghanistan-USSR Border Region 36.51°N 71.41°E
			34	32.2	+2.0	H = 00 25 15.8 s, h = 86 km, Mag = 5.2 (ISC). mPV (BRA) = 5.4, Dc = 41.00°, Az = 85.86°. PV: 2 s 0.1 μm.
18	e	11	03	08		Nepal 29.46°N 81.71°E H = 10 51 36.4 s, h = 42 km, Mag = 5.0 (ISC). Dc = 52.13°, Az = 86.39°.
18	e	12	00	46		Weak near shock.
19	ePn i ePg i eSn iSg Lm	08	34	17	+0.4	Albania 41.49°N 20.43°E
			34	28	-	H = 08 32 32.3 s, h = 29 km, Mag = 4.9 (ISC). MLH (BRA) = 5.0, Dc = 7.08°, Az = 159.31°. LmH: 8 s 16 μm.
20	iP i ipP isP i	11	45	42.2	-2.5	Andaman Islands Region 11.80°N 93.09°E
			45	52.7		H = 11 34 25.9 s, h = 61 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 71.96°, Az = 92.42°.
20	iP i ipP isP i	11	45	42.2	-2.5	Andaman Islands Region 11.80°N 93.09°E
			46	03	+3.0	H = 11 34 25.9 s, h = 61 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 71.96°, Az = 92.42°.
21	ePn e eSg e	00	11	15	-1.7	Yugoslavia 42.16°N 20.62°E
			11	32		H = 00 09 40 s, h = 26 km, Mag = 4.6 (ISC). Dc = 6.50°, Az = 156.26°.
21	e e ePP e Lm	02	38	22		Near Coast of Northern Chile 21.89°S 70.07°W
			39	18		H = 02 25 21 s, h = 20 km, Mag = 6.0 (ISC). MLH (BRA) = 7.7, Dc = 104.17°, Az = 253.08°. LmH: 18 s 230 μm.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
21	iP	16	24	17	-1.1	Kurile Islands 49.15°N 156.15°E H = 16 12 28.6 s, h = 32 km, Mag = 4.9 (ISC). Dc = 76.80°, Az = 26.24°.
	i		24	19.6	-3.0	
	iPcP		24	25.4		
	i		24	42.6		
21	eP	23	54	30	-4.4	Andaman Islands Region 11.77°N 93.09°E H = 23 43 13 s, h = 48 km, Mag = 5.0 (ISC). Dc = 71.98°, Az = 317.44°.
22	ePn Lm	07	23	52	+3.2	Albania 41.21°N 20.4°E H = 07 21 57.8 s, h = 0 km, M = 4.2 (ATH). Dc = 7.34°, Az = 160.16°.
22	ePKIKP iPKP2 e	23	28	54	+0.4	Kermadec Islands 29.80°S 177.36°W H = 23 09 01.3 s, h = 42 km, Mag = 5.2 (ISC). Dc = 158.55°, Az = 36.42°.
23	ePKIKP	13	42	06	+1.0	New Britain Region 5.20°S 151.88°E H = 13 23 16.2 s, h = 68 km, Mag = 5.4 (ISC). M (MOS) = 5.5, Dc = 122.44°, Az = 56.90°.
24	ePKIKP	02	43	54		West of Tonga 21.08°S 177.86°W H = 02 24 58.4 s, h = 426 km, Mag = 5.0 (ISC). Dc = 150.41°, Az = 29.24°.
24	eP	08	45	10	-1.1	Sakhalin Island 54.82°N 142.55°E H = 08 34 10.7 s, h = 3 km, Mag = 5.0 (ISC). M (MOS) = 5.6, Dc = 67.60°, Az = 30.66°.

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Bratislava

Date	Phase	h	m	s	Res. (O-C)	Remarks
24	+iP	20	14	19.2	-1.7	Leeward Islands 17.42°N 61.19°W H = 20 03 13.8 s, h = 42 km, Mag = 6.1 (ISC). M (MOS) = 6.5, MLH (BRA) = 6.7, mPV (BRA) = 6.2, Dc = 69.47°, Az = 273.39°. LmH: 18 s 55 μm. PV: 1.5 s 0.3 μm.
	i		14	23.7		
	i		14	50		
	e		17	10		
	Lm	20	41.5			
24	+iP	21	43	40.5	-0.2	Leeward Islands 17.61°N 61.26°W H = 21 32 30 s, h = 5 km, Mag = 5.9 (ISC). mPV (BRA) = 5.8, Dc = 69.38°, Az = 273.58°. PV: 1 s 0.25 μm.
24	i		43	43		
	e		43	47		
	e		44	21		
25	ePKIKP	01	42	27	+2.3	New Ireland Region 5.25°S 153.70°E H = 01 23 33.3 s, h = 55 km, Mag = 5.8 (ISC). MLH (BRA) = 7.5, Dc = 123.50°, Az = 55.14°. LmH: 20 s 150 μm.
	i		42	47.8		
	i		43	10.3		
	e		44	10		
	Lm	02	38.5			
25	e	10	59	15	+2.0	Near Coast of Northern Chile 21.67°S 70.68°W H = 10 41 31.6 s, h = 48 km, Mag = 5.7 (ISC). Dc = 104.40°, Az = 253.66°.
	ePP	11	00	04		
	e		00	10		
26	eP	09	42	03	+0.5	Off Coast of Oregon 44.54°N 129.88°W H = 09 29 38.5 s, h = 33 km, Mag = 5.1 (ISC). M (MOS) = 5, Dc = 83.23°, Az = 336.90°.
26	eP	10	53	05	-0.2	Off Coast of Oregon 44.53°N 129.77°W H = 10 40 41.2 s, h = 33 km, Mag = 4.9 (ISC). Dc = 83.21°, Az = 336.82°.
26	ePKIKP ePKP2	14	54	34	+11.2	South of Kermadec Islands 32.25°S 177.8°W H = 14 34 27.2 s, h = 33 km, Mag = 4.8 (ISC). Dc = 160.50°, Az = 40.77°.
			55	04	-3.0	

December 1967

Bratislava

Date	Phase	h	m	s	Res. (O-C)	Remarks
27	ePKIKP	16	42	37	+2.6	Tonga Region 22.46°S 174.61°W
	ePKP2		42	56	+3.0	H = 16 22 48.4 s, h = 33 km, Mag = 5.8 (ISC). M (MOS) = 6.2, Dc = 152.69°, Az = 24.17°.
	e		43	14		
	e		43	50		
	e		44	12		
	e		44	35		
28	eP	06	38	43	+2.2	Off Coast of Oregon 44.21°N 128.99°W H = 06 26 16.7 s, h = 33 km, Mag = 5.3 (ISC). Dc = 83.30°, Az = 336.18°.
28	eP	07	14	05	+2.4	Off Coast of Oregon 44.29°N 129.00°W
	ePcP		14	16	+5.0	H = 07 01 38.7 s, h = 33 km, Mag = 5.0 (ISC).
	e		14	28		Dc = 83.23°, Az = 336.21°.
26	iPg	11	15	07.2		Local weak shock.
	i		15	09.6		
	i		15	13.6		
	e		15	22		
28	e	17	06	41		Jan Mayen Island Region 72.17°N 0.4°W H = 16 57 40.2 s, h = 33 km, Mag = 4.1 (ISC). Dc = 25.39°, Az = 347.52°.
28	eP	22	23	57	-1.9	Off Coast of Oregon 44.32°N 128.90°W H = 22 11 35.3 s, h = 33 km, Mag = 4.9 (ISC). Dc = 83.17°, Az = 274.71°.
29	ePn	19	51	06	-2.3	Albania 41.41°N 20.27°E
	i		51	18.5		H = 19 49 24.1 s, h = 46 km, Mag = 4.8 (ISC). MLH (BRA) = 4.7,
	i		51	24.5		Dc = 7.12°, Az = 160.43°, LmH: 2.7 s 2.7 μm.
	i		51	35.9		
	i		52	02.3		
	i		52	14		
	iSn		52	24.5	-3.0	
	i		52	32		
	Lm		53.6			

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29	ePKIKP	20	49	28	+9.1	Tonga Region 22.85°S 175.08°W
	ePKP2		49	40	0.0	H = 20 29 32.3 s, h = 30 km, Mag = 5.3 (ISC). M (MOS) = 5.6, Dc = 152.93°, Az = 25.33°.
29	ePKIKP	22	42	58	+5.0	Tonga Region 22.99°S 174.94°W
	ePKP2		43	16		H = 22 23 05.9 s, h = 33 km, Mag = 5.0 (ISC).
	e		43	22		Dc = 153.10°, Az = 25.17°.
29	ePn	22	56	46	+4.3	Albania 41.44°N 20.10°E
	e		56	53		H = 22 54 59 s, h = 56 km, Mag = 4.3 (ISC).
	e		57	25		Dc = 7.06°, Az = 161.35°.
30	+iPn	04	20	33.6	-1.4	Northern Italy 44.63°N 12.01°E
	i		20	43	0.0	H = 04 19 20.5 s, h = 33 km, Mag = 5.2 (ISC). M (MOS) = 5.5,
	iSn		21	28	-2.0	MLH (BRA) = 5.5, Dc = 4.99°, Az = 226.76°.
	i		22	14		LmH: 3 s 42 μm.
	Lm		22.6			
30	ePn	12	20	37	-4.4	Adriatic Sea 41.3°N 18.9°E
	e		20	54	+1.0	H = 12 18 55 s, h = 0 km (ISC).
	ePg		21	05	-1.0	Dc = 6.99°, Az = 168.81°.
	e		21	29		
30	ePn	21	29	24	+5.3	Greece 40.66°N 21.47°E
	e		29	32		H = 21 27 20.3 s, h = 34 km,
	e		29	38		Mag = 4.6 (ISC).
	eSg		31	42	0.0	Dc = 8.13°, Az = 155.83°.
	Lm		32.2			
30	ePKIKP	15	24	37	+5.0	Solomon Islands 7.10°S 154.77°E
	e		24	47		H = 15 05 36.7 s, h = 49 km,
	e		27	05		Mag = 5.2 (ISC).
						Dc = 125.61°, Az = 55.30°.

December 1967

Bratislava

Date	Phase	h	m	s	Res. (O-C)	Remarks
31	ePn	20	04	31	+1.5	Albania
	e		04	47	+4.0	41.3° N 20.1° E
	eSn		05	41	-2.0	H = 20 02 43 s, h = 33 km, Mag = 4.5 (ISC). Dc = 7.19°, Az = 161.67°.

## Earthquake Observations at the Station Šrobárová

January 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
1-31						The apparatus was not operational.

February 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
1-14						The apparatus was not operational.
15	iP	01	52	55.5	-0.2	Western Persia 34.55°N 47.59°E H = 01 47 30.3 s, h = 51 km, Mag = 4.9 (ISC). Dc = 25.54°, Az = 110.55°.
15	iP ipP	06	08	12	+0.2 +1.0	Burma Dc = 65.69°, Az = 86.14°.
15	ePg iSg	12	12	32		Near Earthquake D ≠ 0.7°.
15	ePn iPcP epP ePP	16	23	39	+0.3 +1.5 +2.3 -3.0	Peru-Brazil Border Region Dc = 96.40°, Az = 263.65°.
17	iPKIKP iPKP2	10	30	44	+2.8 +3.7	Tonga Region Dc = 153.74°, Az = 28.79°.
17	iPg	11	47	28		Near Earthquake
19	eP i	22	28	13	+0.5	South of Java Dc = 99.86°, Az = 92.68°.
20	iP	15	26	51	+0.5	Eastern Kashmir Dc = 44.50°, Az = 87.05°.
22	ePKIKP	18	46	09	+0.7	New Hebrides Dc = 143.12°, Az = 50.25°.
23	iP	19	02	45	+0.5	Southern Nevada Nuclear explosion "AGILE". 37.13°N 116.07°W H = 18 00 00 s (USAEC), Mag = 5.6 (ISC). Dc = 86.15°, Az = 325.08°.
23	iP	22	39	59	-1.0	Yugoslavia Dc = 4.28°, Az = 203.03°.
24	eP	15	22	11	-0.9	Yugoslavia Dc = 4.02°, Az = 184.27°.

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February 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
26	iP iPP	04	05	25	+1.5 -0.2	Eastern Kazakhstan Underground explosion (UPP). Dc = 38.54°, Az = 64.05°.
27	ePn	21	02	20	-1.3	Roumania Dc = 6.51°, Az = 113.91°.
28	eP	09	49	55	+1.7	South of Honshu, Japan Dc = 85.16°, Az = 44.98°.
28	eP	14	24	18	-4.5	Southern Greece 37.53°N 21.18°E H = 14 21 51.3 s, h = 46 km, Mag = 4.7 (ISC). Dc = 10.49°, Az = 167.39°.

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March 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP	10	19	49	+4.9	Southern Persia Dc = 35.76°, Az = 109.44°.
2	eP	23	15	14	-0.3	Near East Coast of Kamchatka Dc = 73.92°, Az = 22.27°.
3	iPg iSg	11	28	32.4		Slovakia Probably explosion. D ≈ 33 km.
4	eP iS Lm	18	00	28	-0.2	Aegean Sea Dc = 9.70°, Az = 149.68°.
5	ePn eSg	10	22	47		Near Earthquake? D ≈ 160 km.
5	eP eS	17	24	24	-0.8	Roumania Dc = 6.15°, Az = 105.99°.
5	eP	18	55	54	+6.0	Roumania 45.32° N 26.1° E H = 18 54 21.1 s, h = 59 km, Mag = 4.1 (USCGS). Dc = 5.92°, Az = 112.05°.
6	iP	11	40	49	+1.1	Off West Coast of Northern Sumatra Dc = 78.79°, Az = 96.72°.
7	iP eS Lm	08	01	42.6	+0.8	Yugoslavia Dc = 4.34°, Az = 188.53°.
9	iPg	19	36	21		Small local shock.
9	iPg	19	41	45		Small local shock.
9	iPg	20	02	43		Small local shock.
10	iPg	08	33	12		Small local shock.
10	iPg	19	00	21		Small local shock.
10	iPg	20	51	32		Small local shock.

March 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
11	eP	14	58	05	+1.7	Veracruz State, Mexico Dc = 91.02°, Az = 300.35°.
11	e	15	57	20		
13	iP	19	28	52.1	+1.7	Red Sea Dc = 32.60°, Az = 142.36°.
13	eP epP	07	08	16	+1.3 +5.3	India-China Border Region Dc = 60.43°, Az = 79.31°.
14	e	08	07	10		
15	iPn iSg	03	40	35	+2.5	Yugoslavia 44° N 17.50° E H = 03 39.5 s (BCIS). Dc = 3.86°, Az = 188.76°.
16	eP	03	18	32	+0.1	Red Sea 19.52° N 38.72° E H = 03 12 03 s, h = 59 km, Mag = 5.0 (ISC). Dc = 32.73°, Az = 142.54°.
16	ePKP2	12	29	14	+1.2	Loyalty Islands Region Dc = 146.05°, Az = 50.65°.
18	eP	18	01	53	-4.7	Near East Coast of Honshu, Japan 36.30° N 140.01° E H = 17 49 49.0 s, h = 85 km, Mag = 5.0 (ISC). Dc = 81.41°, Az = 44.04°.
19	ePKIKP ePP	01	29	11	+0.8	Banda Sea Dc = 109.37°, Az = 78.34°.
19	e	16	49	54		
20	iP	13	43	30	-0.6	Kurile Islands Dc = 78.38°, Az = 31.63°.
20	eP	13	52	49	-0.9	Kurile Islands Dc = 78.49°, Az = 31.53°.
20	iP	14	04	04	-0.2	Kurile Islands Dc = 78.55°, Az = 31.56°.

March 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
20	eP	17	23	34	+0.4	Kurile Islands Dc = 78.53°, Az = 31.58°.
20	iPKIKP	19	27	03	+1.5	Loyalty Islands Region Dc = 145.96°, Az = 50.72°.
21	ePKP2	11	44	56	-1.0	Tonga Region Dc = 153.95°, Az = 28.69°.
22	ePg eSg	19	16	10	-3.6	Northern Italy
		17	29		+11.4	Dc = 4.21°, Az = 251.52°.
23	ePKP2	00	55	28	+3.4	West of Tonga Dc = 146.63°, Az = 27.47°.
24	ipP iPP	09	15	00	0.0	Java
		16	56		-1.7	Dc = 97.11°, Az = 91.08°.
24	ePn iSg	117	40	13	+4.9	Switzerland
		42	22.6		+0.4	Dc = 7.52°, Az = 263.96°.
25	iP iPcP	22	59	59	+2.0	Kurile Islands
		23	00	09	+1.1	Dc = 78.73°, Az = 31.74°.
27	eP	09	09	18	+0.4	Northeastern China
						Dc = 67.53°, Az = 57.09°.
27	eP	20	00	07	-2.7	Red Sea
						Dc = 32.21°, Az = 142.58°.
28	eP	00	07	13	+10.5	Aegean Sea 38.44° N 25.42° E H = 00 04 28 s, h = 29 km, Mag = 4.6 (ISC). Dc = 10.71°, Az = 148.47°.
28	eSg	15	54	41	-1.0	Belgium Dc = 9.61°, Az = 291.71°.
28	eP	19	45	06	+2.7	Luzon, Philippine Islands Dc = 86.70°, Az = 68.34°.
30	iPP	02	26	13	-2.9	South of Bali Island Dc = 102.88°, Az = 92.38°.
30	ePKP2	23	24	27	+0.7	West of Tonga Dc = 146.75°, Az = 27.49°.

March 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
31	iP	02	24	28	+0.6	Fox Islands, Aleutian Islands Dc = 80.25°, Az = 5.01°.
31	eP	03	24	51	+0.4	Red Sea Dc = 32.15°, Az = 142.61°.
31	eiPKIKP	20	24	31	+1.5	New Hebrides Dc = 138.84°, Az = 48.63°.
31	e	23	24	12		Austria Dc = 1.57°, Az = 266.70°.

April 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)		Remarks
1	eP	08	00	23	-1.7	Kurile Islands Dc = 78.48°, Az = 31.26°.	
1	iP iPP i	12	35	34	+1.3	Kurile Islands Dc = 78.41°, Az = 31.46°.	
1	eP	12	47	08	-6.8	Iceland Dc = 25.82°, Az = 321.53°.	
1	iP	14	12	33	-0.3	Kurile Islands Dc = 78.42°, Az = 31.35°.	
1	eP	17	33	08	+0.4	Kurile Islands Dc = 78.56°, Az = 31.30°.	
2	iPg	10	56	18		Explosion?	
2	e	13	05	27			
3	ePKP2	13	18	31	-7.1	Tonga Dc = 151.01°, Az = 23.49°.	
3	ePn iSb iSg	16	37	47	-3.3	Northern Italy Dc = 6.05°, Az = 243.69°.	
4	ePn	03	49	34	+1.2	Turkey 40.32°N 26.20°E H = 03 47 17 s, h = 32 km, Mag = 4.5 (ISC). Dc = 9.39°, Az = 140.00°.	
4	iP iPcP	04	06	25	-0.2	Kurile Islands Region Dc = 78.73°, Az = 31.22°.	
4	eP eS	17	02	12	+5.1	Crete Dc = 12.82°, Az = 160.38°.	
4	iP	18	07	34.6	+1.6	Roumania Dc = 5.89°, Az = 107.89°.	
5	eP ePP	02	47	46	+0.2	Marianas Region Dc = 98.48°, Az = 47.68°.	
6	eP	13	03	32	+1.0	Southern Persia Dc = 30.80°, Az = 113.65°.	

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Date	Phase	h	m	s	Res. (O-C)		Remarks
6	eSn	13	48	41	-2.4	Yugoslavia 42.75°N 19.0°E H = 13 46 08 s (BCIS). Dc = 5.09°, Az = 174.29°.	
6	eP	23	44	27	+1.6	Near East Coast of Honshu, Japan Dc = 82.17°, Az = 43.88°.	
7	eP	17	11	10	+6.9	Turkey Dc = 16.71°, Az = 121.88°.	
7	eP	18	37	26	+0.7	Turkey Dc = 16.79°, Az = 121.92°.	
7	eP	19	50	25	+1.1	Northwest of Kurile Islands 46.74°N 146.07°E H = 19 39 16.3 s, h = 342 km, Mag = 4.9 (ISC). Dc = 75.38°, Az = 34.19°.	
8	iPg	11	28	36.5		Explosion.	
9	eiPKIKP	09	16	01	+2.5	Solomon Islands Dc = 125.93°, Az = 55.75°.	
10	ePKP2	00	17	07	-2.4	Tonga Region Dc = 148.56°, Az = 20.90°.	
10	ePKIKP	15	21	43	+1.6	Solomon Islands Dc = 125.86°, Az = 55.81°.	
10	iP	20	09	01	-0.2	Alaska Peninsula Dc = 73.87°, Az = 355.95°.	
10	ePKIKP	22	08	19	+1.1	Solomon Islands Dc = 125.93°, Az = 55.75°.	
11	eP	12	53	58	+0.2	Leeward Islands 18.96°N 62.59°W H = 12 42 42 s, h = 4 km, Mag = 5.1 (ISC). Dc = 70.16°, Az = 276.54°.	
12	e	19	45	44		Northern Sumatra Dc = 78.36°, Az = 95.05°.	
13	iPg	16	35	18		Probably explosion.	

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Date	Phase	h	m	s	Res. (O-C)	Remarks
13	iPg	17	07	59		Probably explosion.
13	iP	20	06	05	+1.7	Ryukyu Islands Dc = 82.60°, Az = 57.27°.
13	iP	20	13	05	+2.7	Guerrero, Mexico 18.58°N 100.08°W H = 19 59 52.9 s, h = 87 km, Mag = 5.5 (ISC). Dc = 94.02°, Az = 303.23°.
15	iPn iPg iSg Lm	02	09	02	-1.3	Yugoslavia Dc = 3.81°, Az = 204.40°.
15	iP	23	47	47	+4.0	Hokkaido, Japan Region 41.95°N 142.34°E H = 23 35 51.9 s, h = 70 km, Mag = 4.8 (ISC). Dc = 77.84°, Az = 39.23°.
16	iPKIKP	07	37	51	+3.7	South of Fiji Dc = 146.25°, Az = 40.41°.
16	iP	10	22	7.5	+1.4	Kurile Islands Dc = 78.29°, Az = 29.94°.
10	iPg	10	41	57		Explosion?
22	iP	13	19	36	+1.0	Northern Sumatra Dc = 78.22°, Az = 95.41°.
23	iP eSS	09	34	12	0.0	Algeria Dc = 16.49°, Az = 231.08°.
24	iP epP	08	58	51	-4.0	Tadzhikistan Dc = 40.55°, Az = 84.41°.
24	eP	11	57	31	-0.1	Mid-Indian Rise Dc = 84.95°, Az = 134.20°.
24	iPg	16	16	03		Explosion?
25	iP	10	39	07	+0.6	Northern Sinkiang Province, China Dc = 46.89°, Az = 68.69°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
25	iPg	15	57	08		Explosion?
25	iPg	17	29	00		Explosion?
26	iPg	10	17	17		Explosion?
26	iPg	10	50	05		Explosion?
26	iPg	11	12	51		Explosion?
26	iPg	11	42	59		Explosion?
26	iPg	12	37	50		Explosion?
26	iPg	13	06	48		Explosion?
26	iPg	13	19	09		Explosion?
26	iPg	14	46	59		Explosion?
26	iPg	15	25	54		Explosion?
27	iPg	11	58	06		Explosion?
27	iPg	12	32	41		Explosion?
27	iPg	14	27	18		Explosion?
27	iPg	14	49	01		Explosion?
27	eP	23	23	31	+0.2	Southern Sinkiang Province, China Dc = 44.48°, Az = 73.06°.
28	iPg iSg	09	03	21		Explosion.
28	iPg iSg	10	00	18		Explosion.
29	eP	12	37	41	+3.3	Andreanof Islands, Aleutian Islands Dc = 80.09°, Az = 10.43°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
3	iP eSn	18 45	43 22	53	+1.3 -12.8	Greece 39.53°N 21.34°E H = 18 41 47.2 s, h = 37 km. Mag = 4.8 (ISC). Dc = 8.57°, Az = 164.09°.
4	iPg iSg	10 23	23 49	47		Explosion. D ≈ 20 km.
4	ePg iSg	11 15	15 24	22		Explosion. D ≈ 20 km.
4	iPg iSg	11 52	52 11	09		Explosion. D ≈ 20 km.
4	eP	13 42	33 42	11 12	+0.4	Greece 39.63°N 21.26°E H = 13 31 07.8 s, h = 39 km. Mag = 4.7 (ISC). Dc = 8.45°, Az = 164.33°.
4	iPg iSg	13 42	42 13.5	12		Explosion. D ≈ 20 km.
4	iPg iSg	15 52	52 08	07		Explosion. D ≈ 15 km.
5	eP	17 51	51	27	+0.1	Java 7.98°S 107.30°E H = 17 38 07.3 s, h = 47 km. Mag = 5.2 (ISC). Dc = 95.17°, Az = 96.10°.
6	eP	20 00	00	17	+1.9	Hokkaido, Japan Region 42.93°N 139.29°E H = 19 48 31.7 s, h = 34 km, Mag = 4.9 (ISC). Dc = 75.73°, Az = 40.52°.
8	eP	18 55	55	17	+1.9	Hindu Kush Region 36.49°N 70.14°E H = 18 48 05.3 s, h = 216 km, Mag = 4.8 (ISC). Dc = 39.37°, Az = 87.18°.
9	eP	08 02	02	51	+2.1	Greece Dc = 8.39°, Az = 163.52°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
9	eP	21 43	43	36	-0.7	Philippine Islands Region 5.15°N 127.51°E H = 21 30 07.6 s, h = 110 km, Mag = 5.4 (ISC). Dc = 98.91°, Az = 72.20°.
11	eP iPP	14 00	58 20	42	+3.1 +6.0	Tadzhikistan-Sinkiang Border Region Dc = 40.28°, Az = 81.07°.
12	eP	17 55	55	18	+5.7	Northern Italy 44.76°N 10.37°E H = 17 53 24.7 s, h = 39 km, Mag = 4.2 (ISC). Dc = 6.29°, Az = 243.90°.
15	eP	08 16	16	25	+0.5	Crete 34.53°N 26.64°E H = 08 12 57.9 s, h = 35 km, Mag = 4.9 (ISC). Dc = 14.67°, Az = 337°.
15	ePg	10 05	05	48	+11.3	Central Italy 43.7°N 11.0°E H = 10 03 25 s, h = 0 km, Mag = 4.4 (ISC). Dc = 6.56°, Az = 233.88°.
16	ePKIKP	16 34	34	01	+1.8	Tonga Dc = 146.14°, Az = 20.45°.
16	iP	19 57	37	34	+1.3	South of Honshu, Japan Dc = 85.13°, Az = 45.24°.
16	ePn	21 57	17	49	-4.6	Yugoslavia Dc = 5.11°, Az = 163.38°.
17	eP	17 57	57	11	+1.1	Red Sea Dc = 32.59°, Az = 142.43°.
18	iP	04 04	18	55	-2.3	Hokkaido, Japan Region 41.88°N 144.95°E H = 04 06 50 s, h = 9 km, Mag = 5.1 (ISC). Dc = 78.99°, Az = 37.62°.

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Dade	Phase	h	m	s	Res. (O-C)		Remarks
18	iP	11	34	33	+0.6		Hokkaido, Japan Region Dc = 78.93°, Az = 37.66°.
18	eP	14	12	58	-1.3		Hokkaido, Japan Region 41.91°N 144.92°E H = 14 00 52 s, h = 8 km, Mag = 5.0 (ISC). Dc = 78.95°, Az = 37.63°.
18	iP	23	51	27	+0.7		Kyushu Japan Dc = 81.08°, Az = 53.45°.
19	eP	15	59	53	+0.2		Ethiopia Dc = 37.73°, Az = 143.92°.
20	iP	15	12	44	-0.1		Southern Nevada Dc = 86.12°, Az = 325.08°.
21	e	10	18	44			Near Earthquake?
21	iP ipP	18	57	34	-0.3		Southern Sumatra Dc = 86.05°, Az = 95.77°.
23	iP	01	34	24	+1.2		Kurile Islands Region Dc = 78.64°, Az = 32.76°.
23	iP	02	04	41	0.0		Kurile Islands Region Dc = 78.70°, Az = 32.74°.
23	iP	14	12	44	+0.2		Southern Nevada Nuclear explosion "SCOTCH". Dc = 86.13°, Az = 325.34°.
26	iP iS	17	34	27	0.0		Roumania 45.43°N 26.17°E H = 17 33 00.6 s, h = 163 (ISC). Dc = 5.91°, Az = 110.88°.
27	eP	01	58	40	+0.3		Algeria Dc = 18.33°, Az = 235.49°.
27	iP	17	35	01	+1.1		Rat Islands, Aleutian Islands Dc = 78.90°, Az = 13.83°.

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Date	Phase	h	m	s	Res. (O-C)		Remarks
27	iP iPP	19	14	01	+1.3		Kashmir-Sinkiang Border Region Dc = 44.65°, Az = 82.64°.
29	ePKIKP	11	29	14	+3.4		West of Tonga Dc = 149.64°, Az = 27.76°.
29	i	21	13	37	+1.8		Hokkaido, Japan Region Dc = 78.14°, Az = 36.34°.
30	iPg	15	41	04.5			Probably explosion.
30	iPg	16	21	22			Probably explosion.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	iP	03	48	10	+1.9	Fox Islands, Aleutian Islands Dc = 78.91°, Az = 2.40°.
3	eP i	09	20	31	+1.7	Kodiak Island Region Dc = 73.86°, Az = 354.33°.
4	iP	06	35	26	+1.7	Off East Coast of Kamchatka 51.46°N 159.29°E H = 06 34 26 s, h = 29 km, Mag = 4.5 (ISC). Dc = 75.60°, Az = 24.00°.
5	iP ipP	16	50	20	+1.4	Off East Coast of Kamchatka
			50	32	-0.6	Dc = 75.51°, Az = 24.05°.
7	iPn iPb	16	20	09	-2.9	Austria
		20	15		-0.4	Dc = 2.71°, Az = 272.90°.
	iSg		21	00	+4.4	
8	iPKIKP	13	41	42	+1.3	Loyalty Islands Region Dc = 145.33°, Az = 50.38°.
12	iP	18	14	57	+0.1	Greece Dc = 9.01°, Az = 165.14°.
12	iP	21	30	33	+0.5	Southern Sumatra Dc = 86.99°, Az = 97.77°.
12	iP iPcP	23	34	38	+0.8	Kurile Islands
			34	45	-1.6	Dc = 77.56°, Az = 28.82°.
13	eP	01	22	50	+0.8	Southern Sumatra Dc = 87.06°, Az = 97.83°.
13	ePn iSg	17	40	34	+3.4	Austria
		41	23		+12.4	Dc = 2.50°, Az = 273.36°.
13	eP	23	14	28	+3.9	Eastern Caucasus Dc = 19.94°, Az = 97.07°.
14	eP	08	17	51	+0.6	Kurile Islands Dc = 77.60°, Az = 28.72°.
14	iP	08	24	56	+1.5	Kurile Islands Dc = 77.70°, Az = 28.73°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
15	iP	18	52	21	0.0	Central Mid-Atlantic Ridge Dc = 62.52°, Az = 252.24°.
16	ePn eSn	00	20	56	+0.7	Czechoslovakia
			21	07	-1.0	Dc = 0.80°, Az = 317.42°.
16	ePKP	20	31	56		Tonga 19.44°S 175.18°W H = 20 12 19 s, h = 129 km, Mag = 4.8 (ISC). Dc = 149.64°, Az = 25.83°.
17	eP	15	44	45	+10.8	Southern Italy 41.7°N 15.9°E H = 15 43 01 s, h = 51 km, Mag = 4.3 (ISC). Dc = 6.35°, Az = 196.57°.
17	iPg	17	45	56	+1.0	Czechoslovakia Dc = 0.62°, Az = 309.19°.
18	ePn	09	57	27	-0.3	Yugoslavia 45.9°N 15.4°E H = 09 56 40 s, h = 0 km (ISC). Dc = 2.82°, Az = 228.32°.
18	iPn	21	48	02	+0.4	Czechoslovakia Dc = 0.78°, Az = 308.82°.
19	iPn	00	23	17	0.0	Czechoslovakia Dc = 0.73°, Az = 302.58°.
19	iP	14	41	43	+1.0	Red Sea Dc = 31.45°, Az = 142.51°.
19	iP	17	19	52	+0.8	Fox Islands, Aleutian Islands Dc = 79.71°, Az = 3.22°.
20	iP	07	50	53	-0.8	Fox Islands, Aleutian Islands Dc = 79.67°, Az = 3.31°.
21	eP	18	15	44	-0.5	Central Alaska Dc = 67.08°, Az = 353.53°.
21	eP	18	24	01	+1.6	Central Alaska Dc = 67.29°, Az = 353.52°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
21	eP	18	35	44	-0.8	Central Alaska Dc = $67.22^\circ$ , Az = $353.55^\circ$ .
23	ePKIKP	00	45	00	+3.1	Samoa Region Dc = $146.33^\circ$ , Az = $18.44^\circ$ .
23	ePKIKP	01	01	49	-0.4	Samoa Region Dc = $146.32^\circ$ , Az = $18.33^\circ$ .
23	eP	10	10	04	+3.0	Turkey Dc = $12.98^\circ$ , Az = $116.79^\circ$ .
23	ePKP2	12	07	37	+11.8	Balleny Islands Region $62.5^\circ$ S $155.0^\circ$ E H = $11.47$ 30.0 s, h = 33 km, Mag = 5.3 (USCGS). Dc = $151.88^\circ$ , Az = $137.50^\circ$ .
23	iPKIKP	14	57	19	+5.9	West of Tonga Dc = $150.07^\circ$ , Az = $34.40^\circ$ .
25	ePP	23	36	07	-2.4	South of Marianas Dc = $101.82^\circ$ , Az = $56.39^\circ$ .
28	iP	01	22	00	+0.3	Kurile Islands Dc = $78.06^\circ$ , Az = $31.35^\circ$ .
28	ePKP2	14	54	41	+7.5	Off West Coast of South Island, N. Z. $46.96^\circ$ S $165.77^\circ$ E H = $14.34$ 04.7 s, h = 37 km, Mag = 5.5 (ISC). Dc = $158.03^\circ$ , Az = $99.94^\circ$ .
29	iP	03	04	24	+1.0	Eastern Kazakhstan Dc = $38.49^\circ$ , Az = $63.95^\circ$ .
29	eP	08	27	13	+0.8	Turkey-USSR Border Region Dc = $19.19^\circ$ , Az = $99.41^\circ$ .
29	ePKP2	09	45	38	+5.7	Samoa Region Dc = $146.49^\circ$ , Az = $19.67^\circ$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
29	ePP	16	55	07	+5.2	Banda Sea $7.29^\circ$ S $128.59^\circ$ E H = $16.36$ 16.8 s, h = 130 km, Mag = 5.4 (ISC). Dc = $108.96^\circ$ , Az = $79.71^\circ$ .

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	ePn	02	04	29	-6.7	Yugoslavia Dc = 4.16°, Az = 167.04°.
1	iPn	02	56	31	-2.5	Yugoslavia
	iPg		56	48	-0.8	Dc = 3.89°, Az = 170.84°.
	iSg		57	40	+1.0	
1	iP	23	22	06	+0.1	South of Alaska
	ipP		22	15	-1.0	Dc = 78.07°, Az = 357.76°.
2	ePn	00	32	37	-3.2	Yugoslavia
	eSg		33	53	+3.8	Dc = 3.96°, Az = 170.68°.
2	ePn	01	15	07	-3.5	Yugoslavia
	ePg		15	30	+4.2	Dc = 3.85°, Az = 171.52°.
	eSn		16	09	+1.2	
	eSg		16	18	+1.0	
2	iPn	01	18	15	-1.9	Yugoslavia
	ePg		18	38	+5.2	43.9°N 19.2°E
	eSb		19	17	+1.3	H = 01 17 13 s (BCIS), M = 4.6 (BEO).
						Dc = 3.96°, Az = 170.68°.
2	ePn	07	11	04	-5.9	Yugoslavia
	eSg		12	15	-3.5	Dc = 3.96°, Az = 170.68°.
2	eP	07	15	27	+0.2	Nicobar Islands Region
						Dc = 73.75°, Az = 95.08°.
2	iP	07	50	48	+1.7	South of Honshu, Japan
						Dc = 84.96°, Az = 44.81°.
2	iP	08	40	53	-0.7	Eastern Kashmir
						33.21°N 75.71°E
						H = 08 32 39.7 s, h = 42 km,
						Mag = 4.8 (ISC).
						Dc = 45.00°, Az = 87.26°.
2	e	11	27	50		
2	eP	16	28	25	+0.5	Off East Coast of Honshu, Japan
						Dc = 84.96°, Az = 44.67°.
3	eP	21	59	09	-3.1	Ascension Island Region
						Dc = 61.77°, Az = 216.30°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
4	iP	23	53	51	+1.5	Hokkaido, Japan Region
	ePcP		53	57	-3.0	Dc = 77.00°, Az = 38.41°.
	ipP		54	32	+2.5	
5	eP	00	55	56	-2.9	Southern Greece
						Dc = 11.33°, Az = 166.85°.
6	eP	12	03	02		
6	iP	13	54	33	-1.6	Fox Islands, Aleutian Islands
						Dc = 79.83°, Az = 3.99°.
6	eP	19	06	42	-1.5	Eastern Gulf of Aden
						13.32°N 50.79°E
						H = 18 58 40 s, h = 46 km,
						Mag = 4.9 (ISC).
						Dc = 43.73°, Az = 130.87°.
6	iP	19	30	07	-2.4	Central Mid-Atlantic Ridge
						Dc = 61.99°, Az = 249.81°.
8	ePKIKP	01	18	06	+4.7	New Hebrides
	ipPP		21	30		Dc = 138.85°, Az = 48.68°.
8	ePn	09	55	19	+2.9	Yugoslavia
						Dc = 3.05°, Az = 197.76°.
8	ePn	19	22	14	-0.3	Yugoslavia
						46.75°N 16.0°E
						H = 19 21.6 s (BCIS).
						Dc = 2.23°, Az = 225.73°.
11	iPn	12	42	11.7	-0.9	Yugoslavia
	i!		42	13.7		Dc = 3.34°, Az = 194.81°.
	iPg		42	24	-0.8	
	iSg		43	11	+0.8	
12	e	21	13	43		South of Panama
						Dc = 93.16°, Az = 282.00°.
12	ePKIKP	21	34	26	+3.2	Fiji
						Dc = 144.35°, Az = 34.36°.
						Traces.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
13	eP	02	14	37	0.0	Algeria Dc = 18.43°, Az = 234.79°.
13	iPKIKP	10	23	47	-2.2	New Hebrides Dc = 143.99°, Az = 50.79°.
13	eP	14	40	42	-0.8	Albania Dc = 7.22°, Az = 71.76°.
14	eP	03	18	01	+1.0	Red Sea Dc = 32.72°, Az = 142.46°.
14	eP	18	47	39	+2.7	Mid-Indian Rise 16.35°S 66.80°E H = 18 35 44 s, h = 22 km, Mag = 5.0 (ISC). Dc = 77.16°, Az = 132.49°.
16	e	13	52	21		Western New Guinea Region Dc = 106.91°, Az = 72.10°. Traces.
16	eSg	14	09	10		France Dc = 8.88°, Az = 268.90°.
16	iPn	19	02	49	-9.5	Yugoslavia Dc = 2.65°, Az = 227.79°.
17	iPg	11	02	00		Local shock.
19	eP	09	09	20	+1.0	Turkey Dc = 12.40°, Az = 137.69°.
19	ePKIKP	13	00	18	+5.3	West of Tonga Dc = 149.66°, Az = 31.71°.
20	eP	15	50	16	+0.4	Western Caroline Islands Dc = 101.53°, Az = 64.94°.
20	ePn	16	21	05	+4.2	Yugoslavia Dc = 3.45°, Az = 229.22°.
20	eiPn	19	05	15	-0.4	Albania Dc = 7.18°, Az = 170.43°.
22	iP iSSS	16	59	41	-0.7	Turkey Dc = 11.38°, Az = 124.31°.
		17	03	23	-2.0	

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Date	Phase	h	m	s	Res. (O-C)	Remarks
23	ePKP2	14	08	24	+5.0	Macquarie Island Region Dc = 154.13°, Az = 123.93°.
23	ePKIKP	19	03	57	+5.7	Tonga Dc = 150.17°, Az = 26.36°.
25	e	08	40	11		Greece-Bulgaria Border Region Dc = 7.58°, Az = 138.79°. Traces.
26	ePKIKP	08	34	34	+2.7	Loyalty Islands Region Dc = 145.62°, Az = 51.26°.
26	iP	18	57	11	+2.0	Turkey Dc = 17.93°, Az = 109.35°.
27	eP	11	48	24	-0.6	Atlantic-Indian Ridge Dc = 88.40°, Az = 151.51°.
28	ePKIKP	14	44	37	+8.0	West of Tonga 20.65°S 178.48°W H = 14 25 52.3 s, h = 578 km, Mag = 4.9 (ISC). Dc = 149.69°, Az = 32.42°.
29	iP ipP	10	36	47	-0.6	Northern Colombia Dc = 85.93°, Az = 275.62°.
30	eP	00	12	06	-0.4	Near Coast of Venezuela Dc = 79.31°, Az = 274.08°.
30	eP	01	33	46	-1.4	Turkey Dc = 11.25°, Az = 124.58°.
30	ePKIKP	11	09	16	+4.2	West of Macquarie Island Dc = 147.97°, Az = 124.58°.
30	ePKIKP	13	54	14	+5.7	New Ireland Region Dc = 122.90°, Az = 326°.
30	iPKP2	17	43	24	-3.7	West of Tonga Dc = 147.02°, Az = 30.85°.
31	eSn	07	16	27	+4.7	Turkey Dc = 9.83°, Az = 133.81°.

August 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	ePKP2	09	25	56	-6.4	Macquarie Island Region Dc = 154.57°, Az = 132.75°.
2	iP	00	56	22	+0.6	Kurile Islands Dc = 77.46°, Az = 35.12°.
2	eP epP	11	12	16	+0.5	Jan Mayen Island Region Dc = 26.55°, Az = 341.13°.
2	eP ipP	14	11	56	+1.2	Jan Mayen Island Region Dc = 26.65°, Az = 341.14°.
3	ePKIKP	00	28	08	+11.3	Tonga Dc = 151.47°, Az = 24.74°.
3	eP	21	49	33	+1.7	Fox Islands, Aleutian Islands 52.99°N 166.85°W H = 21 37 26 s, h = 21 km, Mag = 4.7 (ISC). Dc = 79.48°, Az = 3.17°.
4	iPg	12	42	16		Explosion. D = 66 km.
4	iPn ePb ePg eSn eSg	14	55	48	-2.1	Adriatic Sea Dc = 5.03°, Az = 185.83°.
4	epPKP2		54	50	+5.2	Tonga Region Dc = 148.61°, Az = 20.68°.
9	eP	13	37	15	+1.0	Colorado 40.00°N 104.69°W H = 13 25 6.7 s, h = 5 km, Mag = 5.0 (ISC). Dc = 78.99°, Az = 318.98°.
10	iP	11	33	20.5		Kurile Islands Dc = 78.28°, Az = 32.40°.
12	iPKIKP iPKP2 ipPKIKP ipPKP2	09	59	21	+1.8	South of Fiji Dc = 153.87°, Az = 33.94°.
			59	46	+4.2	
		10	00	02	+0.2	
		10	00	27	+2.5	

August 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
12	ePKIKP	12	50	22	-0.9	New Hebrides Dc = 138.00°, Az = 49.20°.
12	eP	23	02	04	+2.5	Afghanistan-USSR Border Region 37.15°N 71.32°E H = 22 54 36.5 s, h = 96 km, Mag = 5.1 (ISC). Dc = 39.80°, Az = 85.55°.
14	ePg	10	18	02	-4.7	Northern Italy Dc = 5.45°, Az = 263.26°.
14	eLm	20	16	30		Turkey 40.74°N 30.37°E H = 20 09 25 s, h = 25 km, Mag = 4.6 (ISC). Dc = 11.16°, Az = 124.90°.
15	eP	07	08	49	-0.2	Sicily Dc = 9.36°, Az = 194.74°.
15	iP	09	30	58	+1.7	Tibet Dc = 58.23°, Az = 77.47°.
15	iP	15	47	25	+1.2	E Russia-NE China Border Region Dc = 71.28°, Az = 43.45°.
16	iP	19	31	23	+1.0	Northern Sumatra Dc = 83.04°, Az = 96.41°.
17	iPg iSg	10	24	55		Explosion. D = 75 km.
19	iP	15	41	22	+1.2	Leyte, Philippine Islands 10.36°N 125.87°E H = 15 28 08.5 s, h = 60 km, Mag = 6.0 (ISC). Dc = 93.90°, Az = 70.10°.
19	iPKIKP	16	01	06	+2.1	Santa Cruz Islands Dc = 155.91°, Az = 47.46°.
20	iP	02	09	58	+3.9	Kazakhstan-Sinkiang Border Region Dc = 41.80°, Az = 69.34°.

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Date	Phase	h	m	s	Res. (O-C)	Remarks
21	iP ipP	07	45	02	-0.1	Off West Coast of Northern Sumatra 3.72°N 95.74°E H = 07 33 01.6 s, h = 40 km, Mag = 6.1 (ISC). Dc = 78.81°, Az = 96.85°.
22	ePKIKP	13	20	42	+1.2	South Sandwich Islands Region 60.84°S 24.33°W H = 13.02 06.8 s, h = 33 km, Mag = 6.1 (ISC). Dc = 113.65°, Az = 201.24°.
22	ePdiff. ePKIKP	13	31	34	-11.2	South Sandwich Islands Region 60.90°S 23.20°W H = 13 17 03.1 s, h = 19 km, Mag = 5.6 (ISC). Dc = 113.43°, Az = 200.68°.
24	iP ipP iSp	03	33	14	+0.5	Kurile Islands Dc = 78.68°, Az = 34.99°.
24	eP epP	10	54	21	-1.2	Mozambique Channel 17.1°S 40.3°E H = 10 43 26.8 s, h = 31 km, Mag = 5.0 (ISC). Dc = 67.55°, Az = 157.21°.
26	iP	00	50	32	+0.2	Western Caroline Islands 12.18°N 140.80°E H = 00 36 47.4 s, h = 78 km, Mag = 6.1 (ISC). Dc = 101.49°, Az = 57.31°.
26	iPKIKP isPKP2	18	39	39	+4.0	Samoa Region Dc = 146.24°, Az = 19.27°.
27	iP	10	50	21		
27	eP	13	21	40	+1.8	Nicaragua Dc = 90.66°, Az = 288.88°.
28	eP	21	20	56	+0.7	Morocco Dc = 24.71°, Az = 237.51°.

August 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
30	eP	11	19	12	+1.0	Szechwan Province, China 31.57°N 100.31°E H = 11 08 50 s, h = 35 km, Mag = 5.2 (ISC). Dc = 62.29°, Az = 72.69°.
30	iP ePcP	13	45	26	-3.0	Kurile Islands Dc = 78.55°, Az = 31.63°.
30	eP	20	15	32	-0.1	Kurile Islands 45.42°N 151.47°E H = 20 03 32.7 s, h = 17 km, Mag = 5.5 (ISC). Dc = 78.55°, Az = 31.62°.
31	iPKIKP iPKP2	19	12	41	-6.8	Tonga Dc = 147.76°, Az = 24.65°.

September 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP	11	17	13		Poland H = 11 16.7 s (BCIS).
1	iP	22	53	44	-0.5	Kurile Islands Dc = 77.65°, Az = 34.81°.
3	eP ePP	21	21	29	+2.5	Off Coast of Peru
		25	47		+2.0	Dc = 103.12°, Az = 268.69°.
5	ePb eSb	11	38	14	+3.9	Yugoslavia
		38	59		+0.2	Dc = 3.67°, Az = 230.36°.
5	ePg	15	19	25	-0.8	Yugoslavia
						Dc = 3.53°, Az = 234°.
6	iP ipP	07	41	17	-0.5	Andaman Islands Region
		41	30		+3.0	Dc = 69.40°, Az = 90.78°.
6	eP	15	12	17		Andaman Islands Region
						H = 15 01 00 s
6	iP	17	36	47	-0.2	Fox Islands, Aleutian Islands
						Dc = 79.96°, Az = 4.29°.
7	ePn	00	34	10	+0.3	Albania
						40.75°N 19.58°E
						H = 00 32 22 s, h = 13 km,
						Mag = 4.4 (ISC).
						Dc = 7.12°, Az = 172.21°.
7	iP ePP	07	25	46	0.0	Celebes Sea
		29	56		+3.4	Dc = 98.69°, Az = 76.31°.
7	iP	14	11	29	-1.7	Sicily
						Dc = 10.21°, Az = 193.85°.
8	ePn ePg eSn eSg	02	06	36	+0.5	Greece-Albania Border Region
		07	09		-1.6	
		08	00		-3.0	
		08	46		-0.2	
8	ePn	09	53	51	-2.4	Greece
						Dc = 9.01°, Az = 164.48°.

September 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
8	ePn	12	41	55		Czechoslovakia Explosion. 48.25°N 17.08°E H = 12 41.6 m (BRA). Dc = 0.93°, Az = 297.63°.
9	ePP	10	24	16	-2.5	Santiago del Estero Prov., Arg. 27.62°S 63.15°W H = 10 06 44.5 s, h = 577 km, Mag = 5.9 (ISC). Dc = 104.59°, Az = 245.06°.
11	eP	07	04	15	+0.5	Algeria Dc = 16.13°, Az = 230.73°.
11	ePKP2	10	34	14	-0.2	New Hebrides Region Dc = 147.27°, Az = 45.54°.
12	eP	00	35	07	-2.1	South Atlantic Ridge Dc = 74.72°, Az = 207.62°.
13	iP	18	53	10	-0.5	Near Islands, Aleutian Islands Dc = 77.43°, Az = 15.79°.
15	eP	00	40	56	-0.2	Near East Coast of Honshu, Japan Dc = 82.23°, Az = 43.95°.
15	eP	08	16	27	+13.6	Bonin Islands Region 28.05°N 139.62°E H = 08 04 02.4 s, h = 425 km, Mag = 4.8 (ISC). Dc = 87.94°, Az = 49.08°.
15	iP	10	42	49	-2.5	Bhutan Dc = 59.46°, Az = 81.81°.
15	e	13	04	08		
16	ePg eSn	20	20	05		Hungary Dc = 0.84°, Az = 283.34°.
19	iP iPcP epP eS	11	08	01.8	+1.3	Hokkaido, Japan Region Dc = 78.28°, Az = 36.80°.
			08	08	-1.0	
			08	26	+3.0	
			17	54	-4.6	

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Date	Phase	h	m	s	Res. (O-C)	Remarks
19	iP	19	14	21.8	+5.5	Southern Sumatra $D_c = 85.87^\circ$ , $Az = 96.80^\circ$ .
20	eP	00	44	55.8	+2.2	Near East Coast of Honshu, Japan $D_c = 81.74^\circ$ , $Az = 44.17^\circ$ .
20	iPn iPg eSn eSg	06	10 10 10 11	07 24 57 07	-2.2 +1.8 +5.0 -0.5	Yugoslavia $D_c = 3.45^\circ$ , $Az = 188.65^\circ$ .
20	ePKIKP ePKP2 ePP	09 10	59 59 03	06 42 25	-0.2 +0.5 +3.1	Auckland Islands Region $D_c = 157.35^\circ$ , $Az = 107.33^\circ$ .
20	ePKIKP ePKP2	10	50 51	47 21	+1.8 -2.6	Auckland Islands Region $D_c = 157.29^\circ$ , $Az = 107.61^\circ$ .
20	iPg eSg	16	34 34	04 18		Czechoslovakia $H = 16$ 33.9 m (BCIS). $D = 0.80^\circ$ .
20	iPg eSn	22	44 44	33.7 50		Czechoslovakia $48.3^\circ N$ $17.2^\circ E$ $H = 22$ 44 14 s, $h = 0$ km (ISC). $D_c = 0.89^\circ$ , $Az = 303.52^\circ$ .
22	iP	10	29	59	+2.2	Kurile Islands $D_c = 78.54^\circ$ , $Az = 33.24^\circ$ .
22	eP	12	46	52	+2.2	Kurile Islands $D_c = 78.56^\circ$ , $Az = 33.29^\circ$ .
23	ePKIKP iPKP2	07	15 15	30 40	+10.0 +2.1	West of Tonga $D_c = 150.53^\circ$ , $Az = 35.31^\circ$ .
24	eP	17	13	54	+1.2	Morocco $D_c = 23.88^\circ$ , $Az = 238.73^\circ$ .
24	ePn	22	13	03	-0.4	Albania $D_c = 7.02^\circ$ , $Az = 171.37^\circ$ .
26	ePKIKP ePP	16	29 30	54 32	+1.9 -7.4	Near Coast of Central Chile $D_c = 111.57^\circ$ , $Az = 248.73^\circ$ .

September 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
26	iPg	18	05	14		Slovakia (near Nitra) Explosion of 1.2 Tons. $48.28^\circ N$ $17.92^\circ E$ (PRU). $D_c = 0.56^\circ$ .
26	iPKIKP	17	24	48	+2.0	Solomon Islands $D_c = 125.72^\circ$ , $Az = 55.66^\circ$ .
27	iP	17	12	43	-1.0	Southern Nevada $D_c = 86.15^\circ$ , $Az = 325.01^\circ$ .
28	eP	15	23	22		USSR-Poland Border Region (BCIS)
28	eP	15	56	20	-1.0	Gulf of Alaska $D_c = 72.45^\circ$ , $Az = 352.25^\circ$ .
30	eP	08	09	37	-4.0	Ryukyu Islands $D_c = 82.02^\circ$ , $Az = 55.31^\circ$ .

October 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	ePKIKP	12	15	31	-0.5	Tonga Dc = 145.83°, Az = 21.5°.
2	ePn	20	14	41	-3.2	Southern Italy 41.55°N 14.10°E H = 20 13 01 s, h = 18 km, Mag = 4.5 (ISC). Dc = 6.94°, Az = 207.14°.
3	eP	18	29	09	-0.4	Costa Rica Dc = 91.34°, Az = 287.79°.
4	iPn	10	30	19	-1.9	Poland 50.4°N 18.9°E H = 10 29 29 s (BCIS). M = 3.6 (WAR). Dc = 2.62°, Az = 8.26°.
4	iPg iSg	10	52	41		Probably explosion. D ≈ 70 km,
4	ePKIKP	17	40	19	+5.8	New Ireland Region Dc = 123.48°, Az = 56.59°.
5	iPg	02	30	10		Slovakia Explosion of 1.2 Tons. 48.11°N 18.30°E (PRU). Dc = 0.29°.
5	eP	12	03	20	-0.8	Ionian Sea Dc = 10.23°, Az = 168.83°.
5	iP	16	07	02	+2.0	Kurile Islands Dc = 78.21°, Az = 32.10°.
6	e	01	33	09		Near Coast of Central Chile 29.55°S 71.08°W H = 01 14 2.5 s, h = 28 km, Mag = 5.4 (ISC). Dc = 110.87°, Az = 248.82°.
7	iP	08	39	51	+0.6	Kurile Islands Dc = 76.78°, Az = 26.87°.
7	iP	09	18	43	+1.3	Kurile Islands Dc = 76.79°, Az = 26.85°.

October 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
7	iPKIKP	10	51	48	+3.7	West of Tonga Dc = 146.30°, Az = 30.70°.
8	ePKIKP	18	27	16	+7.5	New Ireland Region Dc = 123.47°, Az = 56.49°.
8	iP	21	21	04	+2.1	Kurile Islands Dc = 76.75°, Az = 26.84°.
9	iPKIKP iPKP2 ipPKP2	17	40	23	0.0	West of Tonga Dc = 149.84°, Az = 33.97°.
10	iPg iSg	18	00	10		Slovakia Explosion. D ≈ 50 km.
11						The apparatus was out of order.
12	iP	13	04	29		Northwest of Kurile Islands Dc = 73.02°, Az = 27.48°.
12	iPg iSg	18	15	10		Slovakia Explosion. D ≈ 40 km.
12	e iPP	18	49	39	+3.1	Banda Sea Dc = 109.67°, Az = 78.64°.
15	iP iPP iPKKP iPKPPKP	08	13	36	+0.2	Nicaragua Dc = 90.65°, Az = 288.47°.
15	iPg iSg	09	58	08		Slovakia Probably explosion. D ≈ 30 km.
16	eP	20	28	54	-0.7	Mascarene Islands Region 17.18°S 66.68°E H = 20 17 01 s, h = 49 km, Mag = 5.1 (ISC). Dc = 77.81°, Az = 133.03°.

October 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
16	eP	23	43	05	+3.0	Kurile Islands 44.21°N 149.90°E H = 23 31 01.6 s, h = 42 km, Mag = 4.7 (ISC). Dc = 78.96°, Az = 33.23°.
17	eP	21	18	02	+0.1	Luzon, Philippine Islands 17.27°N 121.83°E H = 21 05 23.9 s, h = 41 km, Mag = 5.5 (ISC). Dc = 86.13°, Az = 68.61°.
18	iP	01	18	16	-0.4	Greenland Sea Dc = 32.58°, Az = 354.96°.
18	ePKIKP	22	26	20	-0.5	South of Kermadec Islands Dc = 160.78°, Az = 50.09°.
19-20						The apparatus was out of order.
20	ePKIKP	16	15	21	+6.0	West of Tonga 20.52°S 178.03°W H = 15 56 33.5 s, h = 556 km, Mag = 4.8 (ISC). Dc = 149.73°, Az = 31.55°,
20	iPg iSg	18	09	10		Slovakia (Radava) Explosion. D ≈ 40 km.
21	iPn iPg iSn	16	56	06	-5.3	Yugoslavia Dc = 4.82°, Az = 192.42°.
22	eP	18	57	22	-0.1	North Atlantic Ridge Dc = 47.99°, Az = 271.98°.
23	eP	08	39	02	-0.4	Bonin Islands Region Dc = 87.09°, Az = 48.86°. Masked by microseisms.
24	iP epP	11	03	57	-0.8	Southern Sumatra Dc = 87.67°, Az = 97.13°.
24	iPg iSg	17	30	10		Slovakia Explosion. D ≈ 50 km.

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October 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
25	iP iPP	01	11	32.6	+2.3	Taiwan Region
			14	35	-4.3	Dc = 81.04°, Az = 63.59°.
26	eP	00	34	31	-0.3	Taiwan Region
						Dc = 81.07°, Az = 63.51°.
26	eP	17	35	54	-0.4	Molucca Sea
						Dc = 101.39°, Az = 77.53°.
28	eP	18	51	42	-1.7	North Atlantic Ridge
						Dc = 54.83°, Az = 269.36°.

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November 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1-30						The apparatus was not operational.

December 1967

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Date	Phase	h	m	s	Res. (O-C)	Remarks
1	iP	14	08	35.3	0.0	Kurile Islands 49.45° N 145.40° E H = 13 57 03.4 s, h = 144 km, Mag = 5.9 (ISC). Dc = 75.95°, Az = 27.81°.
2	iP	12	46	26.3	+2.8	Albania 41.32° N 20.29° E H = 12 44 42.7 s, h = 16 km, Mag = 5.3 (ISC). Dc = 6.64°, Az = 167.02°.
3	iPg iSg	22	11	14.2	-0.8 -1.5	Czechoslovakia 48.6° N 17.45° E H = 22 10 54 s, h = 7 km (ISC). Dc = 0.99°, Az = 324.75°.
4-17						The apparatus was not operational.
18	eP	22	54	58	+0.3	Persia-Iraq Border Region 33.46° N 46.95° E H = 22 49 28.7 s, h = 49 km, Mag = 4.6 (ISC). Dc = 25.85°, Az = 113.25°.
19	iP	03	31	19.3	+0.5	Afghanistan-USSR Border Region 37.49° N 71.85° E H = 03 23 52.1 s, h = 106 km, Mag = 4.9 (ISC). Dc = 39.98°, Az = 84.71°.
20	iP ipP	11	45	39.8	0.0 0.0	Andaman Islands Region Dc = 71.13°, Az = 317°.
21	iP iPb iPg iSn	00	11	08	+0.7 +1.3 -2.5 +1.9	Yugoslavia Dc = 5.88°, Az = 163.03°.
21	eP	02	39	30	+2.7	Near Coast of Northern Chile Dc = 104.84°, Az = 253.83°.

December 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
21	iP	16	15	09	+0.4	Kurile Islands 49.10° N 156.23° E H = 16 03 20.0 s, h = 42 km, Mag = 4.7 (ISC). Dc = 76.82°, Az = 26.90°.
21	iP	16	24	19	+1.1	Kurile Islands Dc = 76.76°, Az = 26.92°.
21	ePKP2	18	06	29	+0.4	Kermadec Islands Region 31.89° S 179.0° W H = 17 45 54.0 s, h = 21 km, Mag = 5.0 (ISC). Dc = 159.35°, Az = 45.87°.
21	eP isP	23	54	28	-0.5	Andaman Islands Region Dc = 71.15°, Az = 93.23°.
22	iP	07	23	39	-1.7	Albania Dc = 6.77°, Az = 166.52°.
22	iPKP2	23	29	27	-3.3	Kermadec Islands Dc = 158.33°, Az = 39.49°.
23	eP	16	16	35	+0.9	Kurile Islands Region 48.29° N 157.19° E H = 16 04 37.5 s, h = 23 km, Mag = 5.1 (ISC). Dc = 77.84°, Az = 26.70°.
24	eP	08	45	09	-0.4	Sakhalin Island Dc = 67.48°, Az = 31.19°.
24	eP	20	14	24	-1.0	Leeward Islands Dc = 70.30°, Az = 274.39°.
24	eP	21	43	45	+0.7	Leeward Islands Dc = 70.21°, Az = 274.58°.
25	ePKIKP	01	42	25	+1.2	New Ireland Region Dc = 123.02°, Az = 56.53°.
27	eP	07	20	07	-5.0	Albania 41.25° N 20.25° E H = 07 18.5 m (BCIS). Dc = 6.71°, Az = 167.40°.

December 1967

Šrobárová

Date	Phase	h	m	s	Res. (O-C)	Remarks
27	eP iPP	09	31	40	-0.6	Chile-Bolivia Border Region 21.29° S 08.20° W
			35	55	-3.8	H = 09 17 50.3 s, h = 91 km, Mag = 6.3 (ISC). Dc = 103.20°, Az = 252.97°.
27	iPKIKP ePKP2 ipPKP2	16	42	37	+2.7	Tonga Region Dc = 152.66°, Az = 26.78°.
29	eP iSn iSb	19	51	01	-0.5	Albania Dc = 6.56°, Az = 166.99°.
29	ePKIKP iPKP2 ipPKP2	20	49	29	+10.2	Tonga Region Dc = 152.88°, Az = 27.95°.
29	ePKP2	22	43	14	+0.2	Tonga Region Dc = 153.06°, Az = 27.81°.
29	ePn	22	56	34	-0.5	Albania Dc = 6.50°, Az = 168.05°.
30	ePn	21	29	10	-0.1	Greece 40.66° N 21.47° E H = 21 27 20.3 s, h = 34 km, Mag = 4.6 (ISC). Dc = 7.50°, Az = 161.28°.
31	iPn	20	04	21	+0.3	Albania Dc = 6.64°, Az = 168.27°.

**Earthquake Observations  
at the Station Hurbanovo**

January 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
4	eSg e Lm	06	04	26	+6.3	Greece $D_c = 9.90^\circ$ , $Az = 162.14^\circ$ .
5	eP eS Lm	00	24	09	+7.8	Mongolia MLH (HRB) = 8.5. $D_c = 53.75^\circ$ , $Az = 55.66^\circ$ . LmH: 14 s 3205 $\mu$ m.
17	Lm	12	50			Near East Coast of Honshu MLH (HRB) = 7.1. $D_c = 80.30^\circ$ , $Az = 104.70^\circ$ . LmH: 14 s 65 $\mu$ m.
18	eP Lm	05	44	30	+3.2	Eastern Russia MLH (HRB) = 7. $D_c = 57.69^\circ$ , $Az = 39.56^\circ$ . LmH: 10 s 69 $\mu$ m.
20	eP Lm	02	06	47	+0.8	Mongolia $D_c = 53.90^\circ$ , $Az = 55.75^\circ$ . LmH: 6 s 146 $\mu$ m.
28	eS Lm	14	15	12	+5.2	Fox Islands, Aleutian Islands MLH (HRB) = 6.0. $D_c = 79.89^\circ$ , $Az = 4.8^\circ$ . LmH: 20 s 7.0 $\mu$ m.
29	iSb iSg Lm	00	13	36	-1.1	Austria $D_c = 2.69^\circ$ , $Az = 271.83^\circ$ .
			13	44	+1.8	
			14.5			

February 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
9	Lm	14	13.5			Greece-Albania Border Region MLH (HRB) = 5.5. Dc = 8.09°, Az = 168.63°. LmH: 8 s 39 μm.
9	eS Lm	15	48	44	+13.9	Colombia Dc = 89.88°, Az = 274.19°.
13	eP ePP Lm	23	21	06	+3.0	North Atlantic Ocean 52.82°N 34.25°W H = 23 14 22.3 s, h = 17 km, Mag = 5.6 (ISC). MLH (HRB) = 7.3, Dc = 33.18°, Az = 281.16°. LmH: 12 s 340.8 μm.
27	eSg	21	04	32.4	-0.9	Roumania Dc = 7.02°, Az = 112.56°.

March 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
4	iP i iS Lm	18	00	32	+3.0	Aegean Sea Dc = 9.79°, Az = 149.36°. MLH (HRB) = 7.2. LmH: 12 s 2250 μm.
7	eSg	08	03	08	+6.0	Yugoslavia Dc = 4.39°, Az = 187.27°.
19	Lm	04	49			Kurile Islands MLH (HRB) = 6.8. Dc = 78.25°, Az = 31.72°. LmH: 16 s 37.8 μm.
24	eSg	17	42	35	-16.4	Switzerland Dc = 7.45°, Az = 263.34°.

April 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
12	e eS Lm	05 13 50	05 30	27	+9.7	Northern Sumatra $D_c = 78.22^\circ$ , $Az = 95.36^\circ$ .
28	iPg iSg	10 00	00 11			Explosion. $D = 25$ km.

May 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	i iSn iSg Lm	07 12 13 15	12 50 44	38 -0.6	-3.1	Greece MLH (HRB) = 6.5. $D_c = 8.57^\circ$ , $Az = 163.73^\circ$ . LmH: 8 s 330 $\mu$ m.
11	Lm	15	15			Tadzhikistan-Sinkiang Border Region MLH (HRB) = 5.9. $D_c = 40.35^\circ$ , $Az = 81.07^\circ$ . LmH: 8 s 52 $\mu$ m.
21	e	18	57	37		Southern Sumatra $D_c = 86.13^\circ$ , $Az = 95.68^\circ$ . Traces.

June 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
14	e e	05	26	04		Tonga Dc = 146.14°, Az = 20.51°. Traces.
17	e e	05	26	02		South Sandwich Islands Region Dc = 112.18°, Az = 203.75°. Traces.
17	iSn	17	46	11		Czechoslovakia Dc = 0.51°, Az = 309.60°.
19	iSn	00	23	30		Czechoslovakia Dc = 0.62°, Az = 301.84°.

July 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP ePP	23	22	10	+5.1	South of Alaska
			25	10	+6.1	Dc = 78.01°, Az = 357.69°.
2	eSg	01	16	22	-2.4	Yugoslavia Dc = 3.93°, Az = 170.39°.
3	eSg Lm	02	55	55	-3.0	Yugoslavia Dc = 3.92°, Az = 169.51°.
11	eSg	12	43	11	-2.5	Yugoslavia Dc = 3.38°, Az = 193.13°.
19	Lm	09	14			Turkey Dc = 12.50°, Az = 137.51°. Traces.
22	eP i Lm	16	59	44	+1.2	Turkey MLH (HRB) = 7½. Dc = 11.49°, Az = 124.24°. LmH: 10 s 2800 μm.
26	eP iS Lm	18	57	14	+3.2	Turkey MLH (HRB) = 6½. Dc = 18.03°, Az = 109.35°. LmH: 13 s 140 μm.
30	Lm	01	40			Turkey MLH (HRB) = 5.9. Dc = 11.36°, Az = 124.51°. LmH: 6 s 42 μm.

August 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
12	e	09	59	25		South of Fiji Islands Dc = 153.87°, Az = 33.64°. Traces.
13	eP	20	18	28	+3.4	Southern Honshu, Japan Dc = 79.95°, Az = 47.50°.
13	Lm	22	17			Pyrenees MLH (HRB) = 5.8. Dc = 14.01°, Az = 257.49°. LmH: 6 s 25 μm.
21	eP i	07	45	20	+0.3	Northern Sumatra 3.72°N 95.74°E H = 07 33 01.6 s, h = 40 km (ISC). Dc = 81.93°, Az = 93.38°.
30	eP ePS Lm	04	32	31	+5.3	Szechwan Province, China 31.61°N 100.26°E H = 04 22 05.1 s, h = 24 km, Mag = 6.1 (ISC). Dc = 62.23°, Az = 72.69°.

September 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
5	eSg	11	39	04	+2.7	Yugoslavia Dc = 3.64°, Az = 228.73°.
5	Lm	02	10			Greece-Albania Border Region Dc = 7.40°, Az = 168.77°. Traces.
19	eS	11	17	50	+4.7	Hokkaido, Japan Region Dc = 78.28°, Az = 36.73°.
26	ePKIKP	16	29	53	-0.2	Near Coast of Central Chile Dc = 111.51°, Az = 248.67°.

October 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
9	ePKIKP	17	40	24	+0.6	West of Tonga Dc = 149.86°, Az = 33.62°.
15	ePP ePS	08	17	19	+2.4	Nicaragua
		25	32		-17.6	Dc = 90.56°, Az = 288.38°.
18	eP	01	18	19	+3.5	Greenland Sea
						Dc = 32.52°, Az = 354.99°.
25	eP eS Lm	01	11	26	-3.3	Taiwan Region
		21	39		+9.7	Dc = 81.08°, Az = 63.51°.
31	Lm	21	15			Sicily Dc = 10.38°, Az = 196.00°. Traces.

November 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
4	eS Lm	14	52	25	+15.0	Hokkaido, Japan Region
		15	22			Dc = 77.24°, Az = 37.20°.
21	eP	17	07	54	+3.3	Norvegean Sea
						Dc = 25.29°, Az = 352.96°.
23	eS Lm	08	50	35	+12.3	Eastern Gulf of Aden
		09	09			Dc = 43.47°, Az = 128.47°.
23	eP	13	48	39	+3.2	Nord of Svalbard
						Dc = 33.11°, Az = 354.17°.
30	ePn iSn iSg Lm	07	25	36	+3.3	Albania
			26	56	+5.6	MLH (HRB) = 6.9.
			27	36	+5.2	Dc = 6.66°, Az = 165.26°.
			28.5			LmH: 8 s 1350 μm.

December 1967

Hurbanovo

Date	Phase	h	m	s	Res. (O-C)	Remarks
2	ePn i	12	46 48	28 50	+3.2	Albania 41.32° N 20.29° E H = 12 44 42.7 s, h = 16 km, Mag = 5.3 (ISC). Dc = 6.72°, Az = 166.38°.
9	e	03	13	20		Adriatic Sea Dc = 6.01°, Az = 192.80°. Traces.
19	eSg	08	36	27	+16.6	Albania Dc = 6.58°, Az = 165.17°. Masked by microseisms.
21	eSg	00	12	53	-5.2	Yugoslavia Dc = 5.96°, Az = 162.37°.
21	ePP ePS Lm	02	43 53	51 07	-2.4 +3.0	Near Coast of Northern Chile MLH (HRB) = 7.4. Dc = 104.78°, Az = 253.76°. LmH: 22 s 111 μm.
21	ePKIKP	16	42	42	+9.6	Tonga Region Dc = 152.64°, Az = 26.49°. Traces.
30	iSg Lm	04	22 24	24	+5.1	Northern Italy MLH (HRB) = 5.6. Dc = 5.38°, Az = 253.16°. LmH: 6 s 75.2 μm.

## Earthquake Observations at the Station Skalnaté Pleso

May 1967

Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
27	eP	17	34	54	+0.1	Rat Islands, Aleutian Islands Dc = 77.25°, Az = 15.08°.
27	eP	19	13	52	+4.5	Kashmir-Sinkiang Border Region Dc = 43.23°, Az = 85.37°.
29	iP ipP	21	13	20 38	-5.8 -12.8	Hokkaido, Japan Region Dc = 76.26°, Az = 37.73°.

June 1967

Skalnate Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP	10	27	35	+0.6	Near East Coast of Kamchatka Dc = 71.93°, Az = 23.38°.
2-3						The apparatus was not operational.
3	iP	09	20	12	-10.0	Kodiak Island Region Dc = 72.60°, Az = 355.35°.
5	ePKIKP	01	41	10	+8.5	Tonga Dc = 149.73°, Az = 28.07°.
5	eP	16	50	08	0.0	Off East Coast of Kamchatka Dc = 73.73°, Az = 25.35°.
8	ePKIKP	13	41	30	-6.9	Loyalty Islands Region Dc = 143.47°, Az = 51.47°.
10	eP	05	56	02	+4.5	North of Ascension Island Dc = 59.59°, Az = 218.38°.
11-18						The apparatus was not operational.
19	eP	17	19	38	-6.1	Fox Islands, Aleutian Islands Dc = 78.24°, Az = 4.43°.
20-22						The apparatus was not operational.
23	ePKIKP	00	45	00	-2.9	Samoa Region Dc = 144.60°, Az = 20.86°.
23	ePKIKP	01	01	37	-9.0	Samoa Region Dc = 144.59°, Az = 20.86°.
23	ePKP2	14	57	18	-3.6	West of Tonga Dc = 148.21°, Az = 36.26°.
23	ePKIKP	21	49	36	-1.4	New Hebrides Region Dc = 140.21°, Az = 52.74°.
25-27						The apparatus was not operational.
28	eP	01	21	44	-5.6	Kurile Islands Dc = 76.21°, Az = 32.72°.
28	eP	14	53	58	-7.0	Off West Coast of South, N.Z. Dc = 156.97°, Az = 97.62°.

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June 1967

Skalnate Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
29	iP ePP	03	04	10	+0.9	Eastern Kazakhstan Underground explosion (UPP). Dc = 36.75°, Az = 66.31°.
29-30						The apparatus was not operational.

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July 1967

## Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	eP	07	41	21	+5.3	Southern Sumatra Dc = 83.05°, Az = 99.33°.
1	iP ePP	23	21	59	+0.7	South of Alaska
		24	57		-5.2	Dc = 76.73°, Az = 358.91°.
2	ePn	01	15	22	-7.0	Yugoslavia Dc = 5.25°, Az = 189.07°.
2	iP	07	15	15	+1.1	Nicobar Islands Region Dc = 72.62°, Az = 96.97°.
2	eP	07	50	31	-5.7	South of Honshu, Japan Dc = 83.08°, Az = 46.26°.
2	eP	16	28	16	+1.1	Off East Coast of Honshu, Japan Dc = 83.08°, Az = 46.14°.
3	iPn iSg	02	55	07	+3.1	Yugoslavia
		56	35		+0.2	Dc = 5.22°, Az = 188.47°.
3	eP	21	59	24	+3.4	Ascension Island Region Dc = 63.64°, Az = 217.84°.
4	iP ipP	23	53	40	+1.1	Hokkaido, Japan Region
		54	19		0.0	Dc = 75.12°, Az = 39.82°.
5	eP Lm	00	56	12	-2.0	Southern Greece
		01	01.5			Dc = 12.49°, Az = 175.33°.
6	eP	05	17	10	+0.8	Central Alaska Dc = 68.31°, Az = 353.81°.
6	ePg iSg	12	02	29		Probably Poland
		02	40			D ≈ 100 km.
6	iP	13	54	22	-0.2	Fox Islands, Aleutian Islands Dc = 78.36°, Az = 5.21°.
6	eP	19	30	21	0.0	Central Mid-Atlantic Ridge Dc = 63.67°, Az = 250.81°.
7	eP	01	18	04	+0.5	Eastern Gulf of Aden Dc = 43.68°, Az = 134.37°.
10	ePKP2	06	48	12	+0.6	West of Tonga Dc = 144.95°, Az = 32.92°.

July 1967

## Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
11	ePg	12	43	06	-7.0	Yugoslavia Dc = 5.08°, Az = 206.09°.
12-21						The apparatus was not operational.
22	iP	16	59	34	-6.1	Turkey Dc = 11.28°, Az = 135.15°.
25	ePb	08	39	44	-1.6	Greece-Bulgaria Border Region Dc = 8.01°, Az = 153.65°.
26	iP iS Lm	18 19	57 00 08	13 29	0.0 +18.0	Turkey Dc = 17.28°, Az = 116.36°.
27-31						The apparatus was not operational.

August 1967

## Skalnate Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	ePKP2	09	26	04	+1.6	Macquarie Island Region Dc = 154.52°, Az = 130.24°.
2	iP	00	56	10	+1.6	Kurile Islands Dc = 75.60°, Az = 36.51°.
2	iP eS Lm	11	12	09	+1.1	Jan Mayen Island Region Dc = 25.69°, Az = 339.15°.
2	iP Lm	14	11	49	+3.1	Jan Mayen Island Region Dc = 25.79°, Az = 339.18°.
3	ePKIKP	00	28	00	-6.0	Tonga Dc = 149.67°, Az = 27.16°.
4	ePn eSg	14	56	08	-4.7	Adriatic Sea Dc = 6.64°, Az = 196.96°.
4	ePKIKP	22	54	26	+1.5	Tonga Region Dc = 146.86°, Az = 23.19°.
13	iP ipP iPP	20	18	13	-1.5	Southern Honshu, Japan Dc = 78.05°, Az = 49.03°.
13	iP	22	11	22	-7.8	Pyrenees Dc = 15.65°, Az = 255.40°.
13	eP	23	54	39	+1.1	Ascension Island Region Dc = 62.77°, Az = 217.17°.
14	Lm	10	20			Northern Italy Dc = 6.98°, Az = 254.56°.
15	iP	09	30	39	-6.8	Tibet Dc = 56.70°, Az = 79.61°.
15	eP	15	47	13	-1.4	E Russia-NE China Border Region Dc = 69.40°, Az = 44.91°.
16	eP	19	31	15	+2.8	Northern Sumatra Dc = 81.93°, Az = 98.05°.
19	iP	15	41	14	-2.0	Leyte, Philippine Islands Dc = 92.24°, Az = 71.49°.

August 1967

## Skalnate Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
19	ePKIKP epPKIKP	16	01	04	+2.6	Santa Cruz Islands Dc = 134.04°, Az = 48.74°.
20	eP ePP	02	09	38	-1.0	Kazakhstan-Sinkiang Border Region Dc = 40.13°, Az = 71.79°.
20-24						The apparatus was out of order.
26	eP iPP	00	50	24	-0.7	Western Caroline Islands Dc = 99.67°, Az = 58.66°.
27	eP epP ePP	13	21	39	-3.6	Nicaragua Dc = 91.41°, Az = 290.36°.
27	eP	13	46	42	-6.4	Vancouver Island Region Dc = 77.71°, Az = 340.97°.
28	eP	15	37	47	+0.2	Vancouver Island Region Dc = 77.64°, Az = 340.93°.
30	iP	04	32	19	+4.0	Szechwan Province, China 31.61°N 100.26°E H = 04 22 5.1 s, h = 24 km, Mag = 6.1 (ISC). Dc = 60.61°, Az = 74.66°.
30	iP i	13	45	18.5	-0.6	Kurile Islands Dc = 76.70°, Az = 33.00°.
31	iPKIKP ipPKP2	19	12	31	+1.3	Tonga Dc = 145.96°, Az = 26.96°.
			13	45	+4.9	

September 1967

Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1	ePKIKP	03	49	33	-5.0	Eastern New Guinea Region Dc = 117.71°, Az = 63.99°.
1	iP	22	53	30	-6.8	Kurile Islands Dc = 75.78°, Az = 36.19°.
2	eP	03	51	45	-1.3	Jan Mayen Island Region Dc = 26.04°, Az = 339.61°.
3	eP ePP	21	21	34	+1.4	Off Coast of Peru Dc = 104.41°, Az = 270.47°.
3			25	48	-6.2	
4	ePKIKP ipPKIKP ipPKP2	04	11	25	-1.2	Kermadec Islands Region Dc = 156.88°, Az = 46.98°.
4			12	00	0.0	
4			12	58	+2.6	
5-6						The apparatus was not operational.
6	eP	05	02	55	+10.0	Crete Dc = 14.27°, Az = 170.49°.
6	eP	17	36	38	-1.3	Fox Islands, Aleutian Islands Dc = 78.48°, Az = 5.51°.
7	iP	07	25	35	-3.4	Clebes Sea Dc = 97.13°, Az = 77.61°.
7	ePKIKP	11	27	17	-1.9	Kermadec Islands Region Dc = 156.47°, Az = 48.31°.
7	eP	14	11	56	+2.6	Sicily Dc = 11.90°, Az = 199.57°.
8	iP Lm	02	06	45	-8.7	Greece-Albania Border Region Dc = 8.58°, Az = 180.84°.
8			10			
9-18						The apparatus was not operational.
19	ePKIKP	01	05	10	+6.8	South of Fiji Dc = 152.16°, Az = 35.03°.
19	iP i	11	07	51	+1.6	Hokkaido, Japan Region Dc = 76.41°, Az = 38.20°.
19	eP	11	08	14	-2.0	
19	eP	19	14	13	+2.3	Southern Sumatra Dc = 84.78°, Az = 98.36°.

September 1967

Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
19	eP	19	41	39	-2.4	Atlantic-Indian Ridge Dc = 89.69°, Az = 154.73°.
20	eP	00	44	40	-2.0	Near East Coast of Honshu, Japan Dc = 79.85°, Az = 45.62°.
20	ePKIKP	09	59	07	+0.2	Auckland Islands Region Dc = 156.49°, Az = 104.83°.
20	ePKIKP	10	50	42	-4.4	Auckland Islands Region Dc = 156.45°, Az = 105.12°.
20	iPn eSg	22	44	44.3	-8.0	Czechoslovakia Dc = 2.20°, Az = 247.34°.
20			45	18	-8.7	
21-24						The apparatus was not operational.
24	eP	22	13	20	-4.9	Albania Dc = 8.34°, Az = 182.85°.
26	eP	05	07	32	+2.0	Albania Dc = 7.67°, Az = 176.09°.
26	ePKIKP	17	24	46	+4.0	Solomon Islands Dc = 123.88°, Az = 56.80°.
27	iP	17	12	37	-7.4	Southern Nevada Nuclear explosion "ZAZA" Dc = 85.73°, Az = 326.33°.
28	eP	03	01	31	-1.9	Alma-Ata Region Dc = 41.19°, Az = 76.56°.
28	ePKIKP	05	15	44	-0.9	New Britain Region Dc = 122.17°, Az = 58.78°.
28	ePn ePb eSn	15	22	23		USSR-Poland Border Region (BCIS)
28			22	28		
28			22	53		
28	eP	15	56	13	-2.3	Gulf of Alaska Dc = 71.25°, Az = 353.22°.

October 1967

Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1-5						The apparatus was not operational.
5	eP	12	03	38	-0.8	Ionean Sea Dc = 11.45°, Az = 177.78°.
5	eP	16	06	48	-4.1	Kurile Islands Dc = 76.36°, Az = 33.46°.
7	eP	08	39	37	-2.3	Kurile Islands Dc = 74.97°, Az = 28.19°.
7	eP	09	18	34	+3.3	Kurile Islands Dc = 74.97°, Az = 28.17°.
7	ePKIKP	10	51	36	-6.1	West of Tonga Dc = 144.46°, Az = 32.68°.
8	ePKIKP	17	18	29	+2.7	Eastern New Guinea Region Dc = 121.83°, Az = 65.16°.
8	e	18	27	44		New Ireland Region Dc = 121.64°, Az = 57.64°. Traces.
9-31						The apparatus was out of order.

November 1967

Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1-8						The apparatus was out of order.
8	eP	17	21	28	+1.0	Rat Islands, Aleutian Islands Dc = 78.35°, Az = 13.78°.
10	eP	18	49	56	+2.4	Chagos Archipelago Region Dc = 70.67°, Az = 124.89°.
11	eP	12	07	12	+1.4	Chagos Archipelago Region Dc = 70.66°, Az = 124.87°.
11	iP	12	26	12	+2.4	Chagos Archipelago Region Dc = 70.67°, Az = 124.90°.
12	eP	02	39	05	+2.6	Kurile Islands Dc = 76.56°, Az = 34.34°.
12	ePKIKP	10	56	30	+2.5	Tonga Region Dc = 146.57°, Az = 21.56°.
13-30						The apparatus was not operational.

December 1967

## Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
1-8						The apparatus was not operational.
9	iPKIKP	05	48	01	-12.8	South of Fiji Dc = 149.01°, Az = 36.92°.
9	iPg eSg	09	30	20		Probably Poland D ≈ 150 km.
10	eP	12	19	22	-10.7	Near Coast of Northern California Dc = 85.37°, Az = 333.85°.
10	iP Lm	23	00	45	+3.9	India Dc = 53.30°, Az = 106.73°.
13	iP	10	49	40	-11.2	Kurile Islands Dc = 75.12°, Az = 31.10°.
14-15						The apparatus was not operational.
17	iP	00	32	34	+0.6	Afghanistan-USSR Border Region Dc = 38.87°, Az = 89.33°.
17-23						The apparatus was not operational.
24	ePKIKP	02	43	52	-0.7	West of Tonga Dc = 148.46°, Az = 33.69°.
24	eP	08	44	55	-3.3	Sakhalin Island Dc = 65.64°, Az = 32.48°.
24	iP	20	14	32	-1.1	Leeward Islands Dc = 71.45°, Az = 275.32°.
24	iP	21	43	49	+0.3	Leeward Islands Dc = 71.38°, Az = 275.51°.
25	iP	01	42	24	+1.0	New Ireland Region Dc = 121.20°, Az = 57.68°.
26	eP	09	42	04	+1.8	Off Coast of Oregon Dc = 83.07°, Az = 338.97°.
27	iPKIKP	16	42	36	+4.2	Tonga Region Dc = 150.84°, Az = 29.13°.
28	eP	06	38	43	+7.2	Off Coast of Oregon Dc = 83.17°, Az = 338.25°.

December 1967

## Skalnaté Pleso

Date	Phase	h	m	s	Res. (O-C)	Remarks
28-29						The apparatus was not operational.
29	eP	19	51	18	0.0	Albania Dc = 7.78°, Az = 179.86°.
29	ePKIKP	20	49	23	+7.2	Tonga Region Dc = 151.05°, Az = 30.25°.
29	ePKIKP	22	42	59	+9.3	Tonga Region Dc = 151.23°, Az = 30.12°.
30	iPn iPg Lm	04	21	03	-8.4	Northem Italy Dc = 7.25°, Az = 234.13°.
30-31						The apparatus was not operational.

**Observations of Microseisms  
at the Station Hurbanovo**

Microseismic activity  
Apparatus: Mainka NS

January 1967

Hurbanovo

Date	GMT			00 h			06 h			12 h			18 h		
	K	T	A	K	T	A	K	T	A	K	T	A	K	T	A
1	0.0			0.0			1	3	2.2	1	3	2.2	1	3	2.2
2	1	3	2.2	0.0			2	6	3.7	2	4	4.3			
3	1	3	4.5	1	4	6.3	1	4	4.3	1	4	4.3			
4	1	3	2.2	tt			1	4	4.3	1	3	4.5			
5	tt			1	3	2.2	2	4	4.3	0.0			0.0		
6	0.0			2	3	4.5	2	3	2.2	2	4	4.3	0.0		
7	2	4	4.3	2	4	4.3	0.0			0.0			0.0		
8	0.0			0.0			0.0			0.0			0.0		
9	0.0			0.0			2	6	3.7	2	6	3.7			
10	2	4	2.1	2	4	4.3	2	6	5.9	2	6	3.7			
11	0.0			0.0			0.0			0.0			0.0		
12	0.0			0.0			2	6	5.9	2	6	3.7			
13	2	6	3.7	2	6	3.7	2	6	7.3	2	6	5.9			
14	2	6	5.9	2	6	5.9	2	6	5.9	2	6	5.9			
15	2	4	2.1	2	4	2.1	2	3	4.5	2	3	4.5			
16	2	4	4.3	2	4	4.3	2	6	5.9	2	6	5.9			
17	2	6	5.9	2	6	9.3	tt			2	6	9.3			
18	2	4	9.3	2	6	9.3	2	6	9.3	2	6	9.3			
19	2	6	9.3	2	6	9.3	2	6	9.3	2	6	9.3			
20	2	6	9.3	2	6	9.3	2	6	9.3	2	6	9.3			
21	2	6	9.3	2	6	9.3	2	6	9.3	2	6	3.7			
22	2	3	4.5	2	4	4.3	2	6	5.9	2	4	4.3			
23	2	4	4.3	2	4	4.3	2	6	9.3	2	6	9.3			
24	2	4	4.3	2	6	5.9	2	6	3.7	2	6	3.7			
25	2	6	5.9	2	6	5.9	2	6	9.3	2	6	9.3			
26	2	6	9.3	2	6	9.3	2	6	9.3	2	6	9.3			
27	2	3	2.2	2	3	2.2	2	6	3.7	2	4	4.3			
28	2	4	2.1	2	4	4.3	2	4	4.3	2	4	4.3			
29	tt			2	3	2.2	0			0			0		
30	0			0			0			0			0		
31	0			0			0			0			0		

Microseismic activity  
Apparatus: Mainka EW

January 1967

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
	Date	K	T	A	K	T	A	K	T	A	K	T
1	0.0			0.0			1	3	1.8	1	3	1.8
2	1	3	1.8	0.0			1	3	1.8	1	3	1.8
3	0.0			0.0			2	6	5.6	2	6	5.6
4	1	3	1.8	tt			2	3	1.8	2	3	5.6
5	tt			1	3	1.8	0.0			0.0		
6	0.0			0.0			1	3	1.8	0.0		
7	0.0			1	4	3.6	2	4	3.6	0.0		
8	0.0			2	4	3.6	0.0			0.0		
9	0.0			0.0			2	4	1.8	0.0		
10	2	4	1.8	0.0			2	6	1.6	2	6	1.6
11	0.0			0.0			2	3	1.8	0.0		
12	0.0			0.0			2	3	1.8	2	3	1.8
13	0.0			2	3	3.6	2	4	3.6	2	4	3.6
14	2	4	3.6	2	4	3.6	2	4	3.6	2	4	3.6
15	0.0			2	4	3.6	0.0			0.0		
16	2	4	3.6	2	4	3.6	2	4	3.6	2	4	3.6
17	2	6	5.0	2	6	8.2	tt			2	6	3.3
18	2	6	1.8	tt			2	4	3.6	2	4	3.6
19	2	6	5.0	2	6	3.3	2	6	3.3	2	4	3.6
20	2	4	3.6	2	4	3.6	2	4	3.6	0.0		
21	2	4	3.6	2	4	3.6	2	4	3.6	2	4	3.6
22	2	4	3.6	2	4	3.6	2	4	3.6	2	4	3.6
23	2	4	3.6	2	3	1.8	2	3	1.8	2	3	1.8
24	2	3	1.8	2	3	1.8	2	4	3.6	2	4	3.6
25	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
26	2	3	1.8	2	3	1.8	2	6	3.3	2	6	3.3
27	2	4	1.8	2	4	1.8	2	4	3.6	2	6	3.3
28	2	4	3.6	2	4	3.6	2	4	3.6	2	4	3.6
29	tt			2	4	3.6	2	6	3.3	2	6	3.3
30	2	6	3.3	2	6	3.3	2	4	3.6	2	4	3.6
31	2	3	1.8	0			0			0		

Microseismic activity  
Apparatus: Mainka NS

February 1967

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		
2	0				0			0.0			0		
3	0				0			0			0		
4	0				0			0			0		
5	0				0			0			0		
6	0				0			0.0			0.0		
7	0.0				0.0			0.0			1	3	2.2
8	0.0				0.0			1	3	2.2	1	3	2.2
9	0.0				0.0			1	3	2.2	0	3	2.2
10	0.0				0.0			0			0		
11	0				0			0			0		
12	0				0			0			0		
13	0				0			0.0			0.0		
14	0.0				0.0			0			0		
15	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			0			0		
21	0				0			0			0		
22	0				0			0.0			0.0		
23	0				0			0.0			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			0.0			0.0		
28	0.0				0.0			0.0			0.0		

Microseismic activity  
Apparatus: Mainka EW

February 1967

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			
2	0			0			0.0			0			
3	0			0.0			0.0			0.0			
4	0.0			0.0			2	3	1.8	3	3	1.8	
5	0.0			0.0			3	3	1.8	3	3	1.8	
6	2	4	5.2	2	4	5.2	2	6	7.8	2	6	7.8	
7	2	6	7.8	2	6	6.2	2	6	6.2	2	6	6.2	
8	2	6	6.2	2	4	3.4	2	4	3.4	2	4	3.4	
9	0.0			2	4	3.4	2	4	3.4	0.0			
10	0.0			0.0			0.0			0.0			
11	0.0			0.0			2	4	3.4	2	3	1.8	
12	0.0			0.0			2	4	3.4	2	4	3.4	
13	2	4	3.4	2	4	3.4	2	6	4.7	2	6	4.7	
14	2	4	3.4	2	6	3.1	2	6	3.1	2	6	4.7	
15	2	6	7.8	2	6	7.8	2	6	7.8	2	6	7.8	
16	2	6	7.8	2	6	7.8	2	6	7.8	2	6	7.8	
17	2	4	3.4	2	4	3.4	2	6	7.8	2	6	7.8	
18	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4	
19	2	4	3.4	2	4	3.4	2	6	3.1	2	6	3.1	
20	2	6	3.1	2	6	3.1	2	6	3.1	2	6	3.1	
21	2	6	3.1	2	6	3.1	2	4	3.4	2	4	3.4	
22	2	4	3.4	2	4	3.4	2	6	4.7	2	6	4.7	
23	2	6	6.2	2	6	6.2	2	4	3.4	2	4	3.4	
24	2	4	3.4	2	4	3.4	2	3	3.5	2	3	3.5	
25	0.0			0.0			2	3	3.5	2	3	3.5	
26	0.0			0.0			0.0			0.0			
27	0.0			0.0			0.0			0.0			
28	0.0			0.0			2	3	3.5	2	4	3.4	

Microseismic activity  
Apparatus: Mainka NS

March 1967

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				2			2.4		0			0
4	0				0			0			0		0
5	0				0			0			0		0
6	0				0			0			0		0
7	0				0			0			0		0
8	0				0			1		3	2.4		0
9	3				3			2.4		3	4	4.1	0.0
10	0.0				3			4.1		3	3	2.4	0
11	0				0			0			0		0
12	0				0			0			0		0
13	0				0			3		3	2.4		0
14	0				3			2.4		3	3	2.4	0.0
15	0				0			3		3	2.4		0.0
16	0.0				0.0			3		3	2.4		0.0
17	0.0				2			2.4		2	3	4.1	2
18	2				3			2		3	2.4	0.0	3
19	2				2.4			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			0.0		2	6	8.5	2
24	2				4			4.1		2	6	3.5	2
25	0.0				2			3		4.1	2	3	4.1
26	2				3			4.1		2	3	4.1	2
27	2				4.1			2		3	4.1	2	3
28	2				4.1			2		3	4.1	2	3
29	2				4.1			2		3	4.1	2	3
30	2				4.1			2		3	4.1	2	3
31	2				4.1			2		3	4.1	2	3

Microseismic activity  
Apparatus: Mainka EW

March 1967

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	3.4	2	4	3.4	2	3	3.6	2	4	3.4	
2	2	4	3.4	2	4	3.4	2	6	3.1	2	6	3.1	
3	2	3	1.8	2	3	1.8	2	6	3.1	0.0			
4	0.0			0.0			0.0		0.0				
5	0.0			0.0			2	6	1.8	2	6	1.8	
6	0.0			2	4	1.7	2	6	3.1	2	6	3.1	
7	2	3	1.8	2	4	1.7	2	4	3.4	0.0			
8	0.0			0.0			2	3	3.6	2	3	3.6	
9	2	3	3.6	2	4	3.4	2	4	3.4	2	4	3.4	
10	2	3	1.8	2	3	3.6	2	6	7.7	2	6	7.7	
11	2	6	7.7	2	6	7.7	2	6	10.8	2	6	8.5	
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	3.1	2	6	3.1	
14	2	3	3.6	2	4	3.4	2	6	3.1	2	6	3.1	
15	2	3	3.6	2	3	1.8	2	4	3.4	2	4	3.4	
16	2	4	3.4	2	3	1.8	2	6	3.1	2	4	3.4	
17	2	4	3.4	2	4	3.4	2	6	7.7	2	6	7.7	
18	2	6	7.7	2	6	7.7	2	6	7.7	2	6	7.7	
19	2	6	4.6	2	6	4.6	2	6	3.1	2	4	3.4	
20	2	4	3.4	2	4	3.4	2	6	7.7	2	6	7.7	
21	2	4	5.2	2	4	3.4	2	6	7.7	2	6	7.7	
22	2	6	4.6	2	6	7.7	2	6	7.7	2	6	7.7	
23	2	6	7.7	2	6	7.7	2	6	4.6	2	6	4.6	
24	2	3	3.6	2	3	1.8	2	6	3.1	2	6	3.1	
25	0.0			2	3	3.6	2	3	3.6	2	3	3.6	
26	2	3	3.6	2	3	3.6	2	3	3.6	2	3	3.6	
27	2	3	3.6	2	3	3.6	2	3	3.6	2	3	3.6	
28	2	3	3.6	2	3	3.6	2	3	3.6	2	3	3.6	
29	2	3	3.6	2	3	3.6	2	3	3.6	2	3	3.6	
30	2	3	3.6	0.0			0.0			2	3	3.6	
31	2	3	3.6	0.0			2	3	3.6	2	3	3.6	

Microseismic activity  
Apparatus: Mainka NS

April 1967

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	4.0	2	3	4.0	2	3	4.0	2	3	4.0	
2	0.0			2	3	4.0	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	4.0	2	3	4.0	2	6	7.0	2	6	7.0	
6	2	4	5.0	2	4	5.0	2	3	4.0	2	3	4.0	
7	0.0			0.0			2	3	4.0	2	3	4.0	
8	0.0			0.0			2	3	4.0	2	3	4.0	
9	2	3	2.0	2	3	2.0	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	2	3	2.0	2	3	2.0	2	4	5.0	2	3	2.0	
14	2	3	2.0	2	3	2.0	0.0			0.0			
15	0.0			0.0			2	3	2.0	2	3	2.0	
16	2	3	2.0	2	3	2.0	2	4	5.0	2	4	5.0	
17	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0	
18	2	4	5.0	2	4	5.0	2	4	5.0	2	4	5.0	
19	2	4	5.0	2	4	5.0	2	4	5.0	2	4	5.0	
20	0.0			2	3	2.0	2	3	2.0	2	3	2.0	
21	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0	
22	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0	
23	2	3	2.0	0.0			0.0			0.0			
24	0.0			0.0			0.0			0.0			
25	0.0			0.0			0.0			0.0			
26	0.0			0.0			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			0.0			0.0			
30	2	4	5.0	0.0			0.0			0.0			

Microseismic activity  
Apparatus: Mainka EW

April 1967

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	1.8	2	3	3.5	2	3	3.5	2	3	3.5	
2	2	3	3.5	2	3	3.5	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	6	3.0	2	6	3.0	
6	2	4	3.4	2	4	3.4	2	3	1.8	2	3	1.8	
7	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8	
8	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8	
9	2	3	1.8	2	3	1.8	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			2	3	1.8	2	3	1.8	
13	2	3	1.8	2	3	1.8	2	4	1.8	2	3	1.8	
14	2	3	1.8	2	3	1.8	0.0			0.0			
15	0.0			0.0			2	3	1.8	2	3	1.8	
16	2	3	1.8	2	3	1.8	2	4	3.4	2	4	3.4	
17	2	3	1.8	2	3	1.8	2	6	4.5	2	6	3.4	
18	2	6	4.5	2	6	4.5	2	4	3.4	2	4	3.4	
19	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4	
20	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.4	
21	2	3	1.8	2	3	1.8	2	3	1.8	0.0			
22	0.0			0.0			2	4	3.4	2	4	3.4	
23	0.0			0.0			2	4	3.4	2	4	3.4	
24	0.0			0.0			2	4	3.4	2	4	3.4	
25	0.0			0.0			2	3	1.8	2	3	3.4	
26	2	3	1.8	2	3	1.8	0.0			0.0			
27	0.0			0.0			2	3	1.8	2	3	1.8	
28	2	3	1.8	2	3	1.8	0.0			0.0			
29	0.0			0.0			0.0			0.0			
30	0.0			0.0			0.0			0.0			

Microseismic activity  
Apparatus: Mainka NS

May 1967

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	1.8	2	3	3.5	2	3	3.5	2	3	3.5	
2	2	3	3.5	2	3	3.5	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	6	3.0	2	4	3.3	
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			1	3	1.8	0
13	0			1			3			1	3	1.8	0
14	0			0			0			0.0			
15	1	3		1.8			1	3		1.8	0.0		
16	0.0			0.0			0.0			1	3	1.8	0.0
17	0.0			0.0			0.0			1	3	1.8	0.0
18	0.0			0.0			0.0			1	4	1.6	1
19	1	4		3.3			1	4		3.3	2	4	3.3
20	2	4		3.3			2	4		3.3	2	4	1.6
21	2	3		1.8			2	3		1.8	2	3	1.8
22	2	3		1.8			2	3		1.8	2	3	1.8
23	2	3		1.8			2	3		1.8	2	3	1.8
24	2	3		1.8			2	3		1.8	2	3	1.8
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			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 1967

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	1.8	2	3	2.1	2	3	1.8	2	3	1.8	
2	2	3	1.8	2	3	2.1	0.0	2	3	1.8	2	3	1.8
3	0.0			0.0			0.0	2	3	1.8	2	3	1.8
4	2	6	1.6	2	6	3.1	2	3	1.8	0.0	3	1.8	
5	0.0			0.0			0.0	0.0		0.0			
6	0.0			0.0			0.0	0.0		0.0			
7	0.0			0.0			0.0	0.0		0.0			
8	0.0			0.0			0.0	0.0		0.0			
9	0.0			0.0			0.0	0.0		0.0			
10	0.0			0.0			0.0	0.0		0.0			
11	0.0			0.0			0.0	0.0		0.0			
12	0.0			0.0			0.0	0.0		0.0			
13	0.0			0.0			2	3	1.8	2	3	1.8	
14	0.0			0.0			0.0	0.0		0.0			
15	1	3	1.8	0.0			1	4	3.5	0.0			
16	1	3	1.8	0.0			1	3	1.8	1	3	1.8	
17	1	3	1.8	1	3	1.8	1	3	1.8	0.0			
18	0.0			0.0			0.0	0.0		0.0			
19	2	3	1.8	1	4	3.5	2	4	3.5	2	4	3.5	
20	2	4	3.5	2	4	3.5	2	4	3.5	2	4	3.5	
21	2	4	3.5	2	4	3.5	2	3	1.8	2	3	1.8	
22	2	3	1.8	2	3	1.8	2	3	1.8	tt	2	3	
23	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8	
24	2	3	1.8	2	3	1.8	0.0	2	3	1.8	2	3	1.8
25	0.0			0.0			0.0	0.0		0.0			
26	0.0			0.0			0.0	0.0		0.0			
27	0.0			0.0			0.0	0.0		0.0			
28	0.0			0.0			0.0	0.0		0.0			
29	0.0			0.0			0.0	0.0		0.0			
30	0.0			0.0			0.0	0.0		0.0			
31	0.0			0.0			0.0	0.0		0.0			

Microseismic activity  
Apparatus: Mainka NS

June 1967

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
	Date	K	T	A	K	T	A	K	T	A	K	T
1	1	3	1.8	1	3	1.8	1	3	1.8	0.0	0.0	0.0
2	0.0			0.0			0.0	0.0		0.0		
3	0.0			0.0			0.0	0.0		0.0		
4	0.0			0.0			0.0	0.0		0.0		
5	0.0			0.0			0.0	0.0		0.0		
6	0.0			0.0			0.0	0.0		0.0		
7	0.0			0.0			0.0	0.0		0.0		
8	0.0			0.0			0.0	0.0		0.0		
9	0.0			0.0			0.0	0.0		0.0		
10	0.0			0.0			0.0	0.0		0.0		
11	0			0			0	0		0		
12	0.0			0.0			2	3	1.8	2	3	1.8
13	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
14	2	3	1.8	2	3	1.8	2	3	1.8	0.0	0.0	0.0
15	0.0			0.0			0.0	0.0		0.0		
16	0.0			0.0			0.0	0.0		0.0		
17	0.0			0.0			0.0	0.0		0.0		
18	0.0			0.0			0.0	0.0		0.0		
19	0.0			0.0			0.0	0.0		0.0		
20	0.0			0.0			0.0	0.0		0.0		
21	0.0			0.0			0.0	0.0		0.0		
22	0.0			0.0			0.0	0.0		0.0		
23	0.0			0.0			0.0	0.0		0.0		
24	0.0			0.0			0.0	0.0		0.0		
25	0.0			0.0			0.0	0.0		0.0		
26	0.0			0.0			0.0	0.0		0.0		
27	0.0			0.0			0.0	0.0		0.0		
28	0.0			0.0			0.0	0.0		0.0		
29	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
30	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8

Microseismic activity  
Apparatus: Mainka EW

June 1967

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			1	3	1.6	1	3	1.6
7	0.0			0.0			1	3	1.6	0.0		
8	0.0			0.0			0.0			0.0		
9	0.0			0.0			0.0			1	3	1.6
10	0.0			0.0			0.0			0.0		
11	0			0			0.0			0.0		
12	0.0			0.0			2	3	1.6	2	3	1.6
13	2	3	1.6	2	3	1.6	2	3	1.6	2	3	1.6
14	2	3	1.6	2	3	1.6	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			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		
22	0.0			0.0			2	3	1.6	2	3	1.6
23	0.0			0.0			0.0			0.0		
24	0.0			0.0			0.0			0.0		
25	0.0			0.0			0.0			0.0		
26	0.0			0.0			0.0			0.0		
27	0.0			0.0			0.0			0.0		
28	0.0			0.0			2	3	1.6	2	3	1.6
29	2	3	1.6	2	3	1.6	2	3	1.6	2	3	1.6
30	2	3	1.6	2	3	1.6	2	3	1.6	2	3	1.6

Microseismic activity  
Apparatus: Mainka NS

July 1967

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	2.0	2	3	2.0	2	3	2.0	2	3	2.0
2	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
3	2	3	2.0	2	3	2.0	0.0			0.0		
4	0.0			0.0			0.0			0.0		
5	2	3	2.0	2	3	2.0	0.0			0.0		
6	0.0			0.0			0.0			0		
7	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			2	3	2.0	2	3	2.0
13	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
14	0.0			0.0			2	3	2.0	2	3	2.0
15	2	3	2.0	0.0			2	3	2.0	2	3	2.0
16	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
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	3	2.0	2	3	4.0
19	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
20	0.0			0.0			0.0			2	3	2.0
21	2	3	2.0	2	3	2.0	0.0			0.0		
22	0.0			0.0			0.0			tt		
23	2	3	2.0	0.0			0.0			0.0		
24	0.0			0.0			2	3	2.0	2	3	2.0
25	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
26	2	3	2.0	2	3	2.0	0.0			0.0		
27	0.0			0.0			2	4	3.4	2	3	2.0
28	0.0			0.0			0.0			0.0		
29	0.0			0.0			0.0			2	3	2.0
30	tt			0.0			2	3	2.0	2	3	2.0
31	2	3	2.0	0.0			2	3	2.0	2	3	2.0

Microseismic activity  
Apparatus: Mainka EW

July 1967

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	1.7	2	3	1.7	2	3	1.7	2	3	1.7	
2	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7	
3	2	3	1.7	2	3	1.7	0.0			0.0			
4	0.0			0.0			0.0			0.0			
5	2	3	1.7	2	3	1.7	0.0			0.0			
6	0.0			0.0			0.0			0.0			
7	2	3	1.7	2	3	1.7	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			2	3	1.7	2	3	1.7	
13	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7	
14	0.0			0.0			2	3	1.7	2	3	1.7	
15	0.0			0.0			2	3	1.7	2	3	1.7	
16	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7	
17	2	3	1.7	2	3	1.7	2	4	1.6	2	4	1.6	
18	2	3	1.7	2	3	1.7	2	4	1.6	2	4	1.6	
19	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7	
20	0.0			2	3	1.7	2	3	1.7	2	3	1.7	
21	2	3	1.7	2	3	1.7	0.0			0.0			
22	0.0			0.0			2	3	1.7	tt			
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	2	3	1.7	0.0			
27	0.0			0.0			2	4	3.2	2	3	1.7	
28	0.0			0.0			0.0			0.0			
29	0.0			0.0			0.0			0.0			
30	tt			0.0			2	3	1.7	2	3	1.7	
31	0.0			0.0			2	3	1.7	2	3	1.7	

Microseismic activity  
Apparatus: Mainka NS

August 1967

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	3.6	2	3	3.6	2	3	1.5	2	3	1.5	
2	2	3	3.6	2	3	3.6	2	3	1.5	2	3	1.5	
3	2	3	1.5	2	3	1.5	2	3	1.5	0.0			
4	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
5	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
6	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
7	2	3	1.5	2	3	1.5	2	3	1.5	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	2	3	1.5	2	3	1.5	2	3	1.5	0.0	2	3	1.5
13	0.0			0.0			0.0			0.0	2	3	1.5
14	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
15	2	3	1.5	2	3	1.5	2	3	1.5	...	2	3	1.5
16	...			...			2	3	1.5	2	3	1.5	
17	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
18	...			2	3	1.5	2	3	1.5	...	2	3	1.5
19	2	3	1.5	2	3	1.5	2	3	1.5	0.0	2	3	1.5
20	...			...			0.0			0.0	2	3	1.5
21	0.0			0.0			0.0			0.0	2	3	1.5
22	2	3	1.5	2	3	1.5	2	3	3.6	2	3	3.6	
23	2	3	3.6	2	3	3.6	2	4	3.3	2	4	3.3	
24	2	4	3.3	2	4	3.3	2	4	3.3	2	3	3	
25	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
26	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
27	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
28	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
29	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
30	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	
31	2	3	1.5	2	3	1.5	2	3	1.5	2	3	1.5	

Microseismic activity  
Apparatus: Mainka EW

August 1967

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	0.0		0.0	0.0	
2	0.0			0.0	0.0			2	3	1.9	2	3	1.9
3	2	3	1.9	2	3	1.9	2	4	1.8	2	4	1.8	
4	2	4	1.8	2	4	1.8	2	4	3.7	2	4	3.7	
5	2	4	3.7	0.0	2			4	3.7	2	4	3.7	
6	2	4	3.7	2	4	3.7	2	3	1.8	2	3	1.9	
7	2	3	1.9	2	3	1.9	0.0		0.0				
8	2	3	1.9	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				2	3	1.9	2	3	1.9
14	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
15	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
16	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
17	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
18	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
19	2	3	1.9	2	3	1.9	2	4	3.7	2	3	1.9	
20	2	3	1.9	2	3	1.9	2	4	3.7	2	3	1.9	
21	2	3	1.9	2	3	1.9	2	3	1.9	0.0			
22	0.0			0.0				2	3		3	3.9	
23	2	3	1.9	2	3	1.9	2	3	1.9	2	3	3.9	
24	2	3	1.9	2	3	1.9	2	3	1.9	0.0			
25	0.0			0.0				2	3		3	1.9	
26	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
27	2	3	1.9	2	3	1.9	0.0		2	3		1.9	
28	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
29	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
30	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
31	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	

Microseismic activity  
Apparatus: Mainka NS

September 1967

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	1.9	2	3	1.9	2	3	1.9	2	3	1.9	2
2	0.0			0.0			2	3	1.9	0.0	2	3	1.9
3	0.0			0.0			0.0	2	3	1.9	2	3	3.7
4	0.0			0.0			2	3	1.9	2	3	3.7	2
5	2	3	3.7	2	3	3.7	2	3	3.7	2	4	3.4	2
6	2	3	1.9	2	3	1.9	2	3	3.7	2	3	1.9	2
7	0.0			0.0			0.0	2	3	1.9	0.0	2	3
8	0.0			0.0			0.0	2	3	1.9	2	3	1.9
9	0.0			0.0			0.0	2	3	1.9	0.0		
10	0.0			0.0			0.0	2	3	1.9	0.0		
11	0.0			0.0			0.0	2	3	1.9	0.0		
12	0.0			0.0			0.0	0.0	3.7	2	3	3.7	
13	0.0			0.0			0.0	2	3	3.7	2	3	3.7
14	2	4	3.4	2	4	3.4	2	3	3.7	2	4	3.7	
15	2	4	3.4	2	4	3.4	2	4	3.4	2	4	3.7	
16	2	3	1.9	2	3	1.9	0.0	2	3	1.9	2	3	1.9
17	0.0			0.0			0.0	0.0	0.0				
18	0.0			0.0			0.0	0.0	0.0				
19	0.0			0.0			0.0	0.0	0.0				
20	0.0			0.0			0.0	0.0	0.0				
21	0.0			0.0			0.0	0.0	1.9	0.0	0.0	1.9	0.0
22	0.0			0.0			0.0	2	3	1.9	2	3	1.9
23	0.0			0.0			0.0	2	3	1.9	2	3	1.9
24	0.0			0.0			0.0	2	4	3.4	2	4	3.4
25	0.0			0.0			0.0	2	3	1.9	0.0	0.0	
26	0.0			0.0			0.0	2	3	1.9	0.0	0.0	
27	0.0			0.0			0.0	0.0	2	3	1.9	2	3
28	0.0			0.0			0.0	2	3	1.9	2	3	1.9
29	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	2
30	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	2

Microseismic activity  
Apparatus: Mainka EW

September 1967

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
	Date	K	T	A	K	T	A	K	T	A	K	T
1	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
2	0.0			2	4	1.7	2	4	3.9	2	4	1.7
3	2	4	1.7	2	4	3.9	2	4	3.9	0.0		
4	2	4	3.9	2	4	3.9	2	3	3.4	2	3	3.4
5	2	3	3.4	2	3	3.4	2	4	3.9	2	3	3.4
6	2	3	3.4	2	3	1.8	2	3	3.4	2	3	3.4
7	2	3	1.8	0.0		0.0			0.0			
8	0.0			0.0		0.0		2	3	3.4	3	3.4
9	0.0			0.0		0.0			0.0			
10	2	4	3.9	2	3	1.8	0.0					
11	0.0			0.0		0.0			0.0			
12	0.0			0.0		0.0		2	3	1.8		
13	0.0			0.0		0.0			0.0			
14	2	3	3.4	2	3	3.4	2	4	3.9	2	4	3.9
15	2	3	1.8	2	3	1.8	2	3	3.4	2	3	3.4
16	2	3	3.4	2	3	3.4	2	3	1.8	2	3	1.8
17	2	3	1.8	0.0		0.0			0.0			
18	0.0			0.0		0.0			0.0			
19	0.0			0.0		0.0		2	3	1.8		
20	0.0			0.0		0.0			0.0			
21	0.0			0.0		0.0		2	3	1.8	0.0	
22	0.0			0.0		0.0		2	3	1.8	0.0	
23	0.0			0.0		0.0		2	3	1.8	0.0	
24	0.0			0.0		0.0			0.0			
25	0.0			0.0		0.0		2	4	3.9	2	3.9
26	0.0			0.0		0.0		2	3	1.8	0.0	
27	0.0			0.0		0.0		2	3	1.8	0.0	
28	0.0			0.0		0.0		2	3	1.8	0.0	
29	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8
30	2	3	1.8	2	3	1.8	2	3	1.8	2	3	1.8

Micro seismic activity  
Apparatus: Mainka NS

October 1967

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
	Date	K	T	A	K	T	A	K	T	A	K	T
1	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
2	2	3	1.5	2	4	1.5	2	3	3.5	2	3	1.7
3	2	4	1.7	2	3	1.7	2	5	3.1	2	5	4.9
4	2	3	3.2	2	4	3.2	2	4	1.5	2	3	1.7
5	2	4	3.2	2	3	1.7	2	4	1.5	2	4	1.5
6	0.0			2	3	3.5	2	4	3.2	2	4	3.2
7	0.0			2	3	3.5	2	4	3.2	2	4	3.2
8	0.0	4	3.2	2	4	3.2	...	...	...	...	...	
9	...			...			1	3	1.7	...		
10	...			...								
11	...			...			1	4	3.2	2	3	3.5
12	...			...			2	3	3.5	...	4	3.2
13	0			2	3	3.5	2	4	3.2	2	4	3.2
14	2	4	3.2	2	4	3.2	2	6	3.2	2	6	3.2
15	2	6	3.1	2	6	3.2	2	5	4.9	2	5	4.9
16	2	6	3.1	2	6	3.2	2	5	4.9	2	4	3.2
17	2	4	3.2	2	4	3.2	2	6	3.2	2	4	3.2
18	2	4	3.2	2	4	3.2	2	5	4.9	2	5	4.9
19	2	5	4.9	2	5	4.9	2	5	4.9	2	5	4.9
20	2	6	4.7	2	4	3.2	2	4	3.2	2	3	1.7
21	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
22	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
23	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
24	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
25	2	3	1.7	2	3	1.7	2	4	3.2	2	3	1.7
26	2	4	3.2	2	4	3.2	2	6	3.2	2	4	3.2
27	2	5	4.9	2	6	4.7	2	6	3.2	2	5	3.1
28	2	5	3.1	2	5	3.1	2	4	3.2	2	3	1.7
29	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
30	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
31	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7

Microseismic activity  
Apparatus: Mainka EW

October 1967

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
	Date	K	T	A	K	T	A	K	T	A	K	T
1	2	3	1.0	2	3	1.9	2	3	1.9	2	3	1.9
2	2	3	1.9	2	3	1.9	2	6	4.7	2	4	1.9
3	0.0			2	4	1.9	2	3	3.7	2	3	1.9
4	2	3	1.9	2	3	1.9	2	4	3.6	2	6	1.6
5	2	3	3.7	2	4	3.6	2	4	1.8	0.0		
6	0.0			2	3	1.9	2	6	1.6	2	6	3.3
7	2	3	1.9	2	4	1.9	2	3	1.9	2	4	3.6
8	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
9	2	3	1.9	2	3	1.9	2	4	1.9	2	3	1.9
10	0.0			0.0			2	4	1.9	2	3	1.9
11	0.0			0.0			2	4	3.6	2	4	3.6
12	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
13	2	3	1.9	2	3	1.9	2	4	3.6	2	4	3.6
14	2	4	3.6	2	4	3.6	2	6	3.3	2	6	3.3
15	2	6	3.3	2	6	3.3	2	6	3.3	2	6	6.5
16	2	6	3.3	2	6	3.3	2	6	3.6	2	6	4.7
17	2	4	3.6	2	4	3.6	2	6	4.7	2	6	5.4
18	2	6	3.3	2	6	3.3	2	6	4.7	2	6	3.3
19	2	6	3.3	2	6	3.3	2	6	3.3	2	4	3.3
20	2	6	3.3	2	6	3.3	2	4	3.6	2	4	3.6
21	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
22	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
23	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
24	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
25	2	3	1.9	2	3	1.9	2	4	3.6	2	4	3.6
26	2	4	3.6	2	4	3.6	2	4	3.3	2	4	3.6
27	2	4	3.6	2	4	3.6	2	6	4.7	2	6	6.5
28	2	6	5.1	2	6	4.7	2	4	3.6	2	3	1.9
29	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
30	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
31	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9

Microseismic activity  
Apparatus: Mainka NS

November 1967

Hurbanovo

GMT	00 h			06 h			12 h			18 h		
	Date	K	T	A	K	T	A	K	T	A	K	T
1	2	3	1.7	2	3	1.7	2	4	3.3	2	4	5.0
2	2	4	5.0	2	4	3.3	2	6	4.7	2	6	4.7
3	2	6	5.3	2	4	3.3	2	3	1.7	2	3	1.7
4	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
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	2	3	1.7
7	2	3	1.7	2	3	1.7	2	3	1.7	2	4	3.3
8	2	3	1.7	2	3	1.7	2	4	1.7	2	4	3.3
9	2	4	3.3	2	4	3.3	2	3	1.7	2	3	1.7
10	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
11	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
12	2	3	1.7	2	3	1.7	2	4	3.3	2	6	3.4
13	2	6	3.4	2	6	3.4	2	6	4.2	2	6	4.7
14	2	6	4.7	2	6	4.7	2	6	5.3	2	4	3.3
15	2	4	3.3	2	4	3.3	...	...	...	...	...	...
16	...						2	4	3.3	...	4	3.3
17	...						2	4	3.3	2	4	3.3
18	2	4	3.3	2	4	3.3	2	4	3.3	2	4	3.3
19	2	4	3.3	2	4	3.3	2	4	3.3	2	4	3.3
20	2	4	3.3	2	4	3.3	2	3	1.7	2	3	1.7
21	2	3	1.7	2	3	1.7	2	4	1.7	2	3	1.7
22	2	3	1.7	2	4	3.3	2	6	3.4	2	6	3.4
23	2	4	1.7	2	4	1.7	2	4	3.3	2	4	3.3
24	2	4	3.3	2	4	3.3	0.0	0.0	0.0	2	3	1.7
25	0.0									2	3	1.7
26	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
27	2	3	1.7	2	3	1.7	2	3	1.7	2	3	1.7
28	2	3	1.7	2	6	3.4	2	6	3.4	2	6	3.4
29	2	6	3.4	2	6	3.4	2	6	3.4	2	6	3.4
30	2	6	3.4	2	6	3.4	2	6	3.4	2	6	3.4

Microseismic activity  
Apparatus: Mainka EW

November 1967

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	1.9	2	3	1.9	2	4	3.8	2	4	3.8
2	2	4	3.8	2	4	3.8	2	6	3.5	2	6	5.2
3	2	3	1.9	2	4	3.8	2	4	1.9	2	3	1.9
4	0.0		0.0				2	3	1.9	2	3	1.9
5	2	3	1.9	2	3	1.9	2	3	1.9	2	2	1.9
6	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
7	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
8	2	3	1.9	2	3	1.9	2	4	3.8	2	4	3.8
9	2	4	3.8	2	4	3.8	2	3	1.9	2	3	1.8
10	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
11	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
12	2	3	1.9	2	3	1.9	2	6	3.5	2	6	3.5
13	2	4	3.8	2	6	3.5	2	6	5.5	2	6	5.5
14	2	6	3.5	2	6	3.5	2	6	3.5	2	4	1.7
15	2	6	1.7	2	6	1.7	2	6	3.5	2	6	1.7
16	2	4	3.8	2	4	3.8	2	6	3.5	2	4	3.8
17	2	4	3.8	2	4	3.8	2	4	3.8	0.0	2	
18	0.0						2	3	1.9	2	3	1.9
19	2	4	3.8	2	4	3.8	2	3	1.9	2	3	1.9
20	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
21	2	3	1.9	2	3	1.9	2	3	1.9	2	5	3.6
22	2	4	1.9	2	4	1.9	2	4	3.8	2	4	3.8
23	2	4	1.9	2	4	3.8	2	4	3.8	2	4	3.8
24	2	4	3.8	2	4	3.8	0.0		0.0			
25	0.0						2	4	1.9	2	3	1.9
26	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9
27	2	3	1.9	2	3	1.9	2	4	3.8	2	6	3.5
28	2	3	1.9	2	3	1.9	2	4	3.8	2	6	3.5
29	2	6	3.5	2	6	3.5	2	6	3.5	2	6	3.5
30	2	6	3.5	2	6	3.5	2	6	3.5	2	6	3.5

Microseismic activity  
Apparatus: Mainka NS

December 1967

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	3.2	2	6	3.2	2	6	3.2	...	6	8.1
2	...			...			2	6	4.5	2	6	3.2
3	2	6	4.5	2	6	4.5	2	6	3.2	2	6	3.2
4	2	6	3.2	2	6	3.2	2	6	3.2	2	6	8.1
5	2	6	8.1	2	6	8.1	2	6	8.1	2	6	8.1
6	2	6	3.2	2	6	4.5	2	6	3.2	2	6	3.9
7	2	3	2.0	2	3	2.0	2	6	4.5	2	6	4.5
8	2	4	3.9	2	4	3.9	2	3	3.8	2	3	3.8
9	2	3	3.8	2	3	3.8	2	3	3.8	2	3	3.8
10	2	3	3.8	2	3	3.8	2	4	3.9	2	4	3.9
11	2	3	3.8	2	3	3.8	2	3	3.8	2	3	3.8
12	2	4	3.9	2	4	3.9	2	3	3.8	2	4	3.9
13	2	4	3.9	2	4	3.9	2	4	3.9	2	3	3.8
14	2	3	2.0	2	4	2.0	2	4	2.0	2	3	2.0
15	2	6	4.5	2	6	8.1	2	6	4.5	2	6	8.1
16	2	6	4.5	2	6	8.1	2	5	5.1	2	5	3.6
17	2	4	3.9	2	4	3.9	2	4	3.9	2	4	3.9
18	2	4	3.9	2	4	3.9	2	4	3.9	2	3	3.8
19	2	4	3.9	2	4	3.9	2	4	3.9	2	4	3.9
20	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
21	2	3	2.0	2	3	2.0	2	4	3.9	2	4	3.9
22	2	4	3.9	2	4	3.9	2	3	2.0	2	3	2.0
23	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
24	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
25	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
26	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
27	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
28	2	3	2.0	2	3	2.0	2	4	3.9	2	4	2.0
29	2	4	3.9	2	4	3.9	2	3	2.0	2	3	2.0
30	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0
31	2	3	2.0	2	3	2.0	2	3	2.0	2	3	2.0

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	3.4	2	6	3.4	2	6	3.4	...			
2	...			...			2	6	5.2	2			
3	2	6	5.2	2	6	5.2	2	6	8.4	2	6	8.4	
4	2	6	5.2	2	6	8.4	2	6	8.4	2	6	8.4	
5	2	6	8.4	2	6	7.4	2	6	8.4	2	4	3.6	
6	2	4	3.9	2	4	3.9	2	6	8.4	2	4	3.9	
7	2	4	3.9	2	4	3.9	2	6	5.2	2	6	5.2	
8	2	4	3.9	2	3	1.9	2	3	3.9	2	3	1.9	
9	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
10	2	4	3.9	2	3	1.9	2	3	3.9	2	3	1.9	
11	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
12	2	3	1.9	2	3	1.9	2	4	3.9	2	4	3.9	
13	2	4	3.9	2	4	3.9	2	4	1.9	2	4	1.9	
14	2	4	1.9	2	4	1.9	2	3	1.9	2	3	1.9	
15	2	4	3.9	2	5	3.6	2	5	3.6	2	5	3.6	
16	2	4	3.4	2	6	8.4	2	6	8.4	2	6	5.2	
17	2	6	5.2	2	6	5.2	2	4	3.9	2	4	3.9	
18	2	3	1.9	2	3	1.9	2	4	3.9	2	3	3.9	
19	2	3	3.0	2	3	3.9	2	3	1.9	2	3	1.9	
20	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
21	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
22	2	3	3.9	2	3	3.9	2	3	1.9	2	3	1.9	
23	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
24	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
25	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
26	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
27	2	3	1.9	2	3	1.9	2	3	3.9	2	3	3.9	
28	2	3	3.9	2	3	3.9	2	4	3.9	2	4	3.9	
29	2	4	3.9	2	4	3.9	2	3	1.9	2	3	1.9	
30	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	
31	2	3	1.9	2	3	1.9	2	3	1.9	2	3	1.9	

## Macroseismic Observations of Earthquakes on the Territory of Slovakia in the Year 1967

## Macroseismic Observations 1967

Date	Origin Time	Location	Latitude North	Longitude East	Focal Depth (km)	Shaken Area ( $\text{km}^2$ )	Epicentral Int. (MCS)	Felt at
January 29	00 12 14 (BCIS)	Austria	47.9°	14.3°		98000	6 $\frac{3}{4}$	I = 3° Bratislava
June 17	17 45 41 (BCIS)	Czechoslovakia (Little Carpathians)	48.4°	17.5°			6°	I = 5° Bílovice, Buková, Holič, Prievaly, Závod
September 16	20 19 43 (BCIS)	Czechoslovakia (Little Carpathians)	48.4°	17.2°			3 $\frac{1}{2}$ °	I = 3 $\frac{1}{2}$ ° Jablonové, Kuchyňa, Malacky, Pernek, Sološnica
September 20	22 44 14 (BCIS)	Czechoslovakia (Little Carpathians)	48.4°	17.2°	5–10	800	4 $\frac{1}{2}$ °	I = 4 $\frac{1}{2}$ ° Kuchyňa, Rohožník
								I = 4° Bořinka, Bratislava (north part), Casta, Jablonové, Jur, Kuchyňa, Lamac, Limbach, Malacky, Modra, Pezinok, Plavecký Štvrtok, Vajnor
								I = 3 $\frac{1}{2}$ ° Bratislava (south part), Ivanka pri Dunaji, Petřalka, Prievoz, Plavecké Podhradie, Rovinka, Sološnica, Scupava, Trnava

Date	Origin Time	Location	Latitude North	Longitude East	Focal Depth (km)	Shaken Area (km <sup>2</sup> )	Epicentral Int. (MCS)	Felt at
December 3	22 10 54 (BCIS)	Czechoslovakia (Little Carpathians)	48.7°	17.5°	7	3500	6½°	I = 6° Buková, Cerová, Liesskove, Prievaly, Rozbehy
							I = 5½°	Deňtice, Dobrá Voda, Jablonové, Plavecký Mikuláš
							I = 5°	Brezovä pod Bradlom, Čachtice, Chtelnica, Podolie, Trstín
							I = 4½°	Horná Krupá, Krajiné, Naháč, Senica, Smolenice, Veľké Kostolany, Vrbové
							I = 4°	Borovce, Borský Mikuláš, Bošany, Dolné Orešany, Dolná Krupá, Modra, Myjava, Nové Mesto n/Váhom, Trnava
							I = 3½°	Bratislava, Hlohovec
							I = 3°	Nitra, Partizánske, Sedinské Rovné, Sládkovičovo

## Abstracts of Papers Dealing with Seismology

Author: Ivan Brouček

Title: Earthquakes in Little Carpathians

Address: Geophysical Institute of the Slovak Academy of Sciences, Bratislava,  
Czechoslovakia

Published in (or presented at):

Contributions of the Geophysical Institute of the Slovak Academy of  
Sciences, 1 (1969)

Abstract:

The presented paper deals with the investigation of 16 earthquakes observed in the territory of Little Carpathians. From the macroseismic data it is derived the surface distribution of seismic energy released during the last 80 years. From relatively increasing density of the energy, bands of higher mobility were plotted which were in relation with geologically and geophysically detected tectonic dislocations. (The paper is written in German, with Russian abstract, 4 fig., 2 tab., 14 ref.)

Author: Alexander Molnár

Title: Determination of the Prediction Coefficients of the Wiener-Kolmogorov Linear Extrapolation Formula for a Random Sequence of Earthquake Activity in Komárno

Address: Geophysical Institute of the Slovak Academy of Sciences, Bratislava, Czechoslovakia

Published in (or presented at):

XII<sup>th</sup> General Assembly of the ESC, Luxemburg, 21–29 September, 1970

Abstract:

Earthquake activity is considered to be a stationary, random sequence of earthquake. The argument of the sequence is taken to be time with steps of ten years. The earthquake activity in the focus considered is known for an interval of 370 years. This pattern of the random process is used to make a forecast of  $m$  steps in advance, using the Wiener-Kolmogorov theory of extrapolating stationary, random processes. The prediction coefficient  $a_k$  of the linear extrapolation formula:

$$\xi(t+m) = a_1 \xi(t-1) + a_2 \xi(t-2) + \dots + a_n \xi(t-n),$$

where  $\xi$  are centred values of the observed intensities of earthquakes in the focus in the past, are derived from the correlation theory of stationary, random processes and from the spectral formulations, based on the elementary concepts of the Hilbert space and on the fundaments of the theory of functions of the complex variable.

As the occurrence of an earthquake phenomenon is very rare, the step of the random sequence is chosen as a decade and therefore,  $m$  in the extrapolation formula has values 0, 1, 2, etc. In the case considered, the forecast is made for three values of the argument, for  $m = 0, 1, 2$ , i. e. for the decades 1970–79, 1980–89, 1990–1999, drawing on the earthquakes intensities observed over a period of 220 years, which leads to the solution of a system of linear equations of 22 unknowns and, as a check, the computation was carried out for the whole known sequence of earthquakes, i. e. for an interval of 370 years, which lead to the solution of a system of linear equations of 37 unknowns. Also the mathematical expectation of the mean square error of the extrapolation was determined. (The paper is written in English, with English abstract, 2 fig., 3 tab., 3 ref.)

Author: Alexander Molnár

Title: On the Possibilities of the Representation of Seismic Activity via Oriented Graphs and their Boolean Matrices

Address: Geophysical Institute of the Slovak Academy of Sciences, Bratislava, Czechoslovakia

Published in (or presented at):

Bull. (Izv.) Acad. Sci. USSR, Earth Physics, No. 11 (1972)

Abstract:

As it is known, the seismic activity can be represented by chronological list of earthquakes and by maps of seismic activity. These methods of representing the seismic activity could be completed by oriented graph and his Boolean matrix. In the presented paper the transmissions amongst the seismic regions (Balkan, Italy and Alpine-Carpathian zone) are represented by the oriented graphs and their Boolean matrices. (The paper is written in Russian, with Russian abstract, 8 fig., 2 tab., 3 ref.)

Author: Alexander Molnár

Title: Stochastic Sequential Model for Forecasting Earthquakes

Address: Geophysical Institute of the Slovak Academy of Sciences, Bratislava,  
Czechoslovakia

Published in (or presented at):

Contributions of the Geophysical Institute of the Slovak Academy of Sciences, 3 (1972)

Abstract:

The paper is an attempt at forecasting earthquakes by means of a stochastic sequential model. Random signals on the inputs are represented by deformations observed in the epicentral region of the focus. The model responds to these signals in a statistically optimum manner by forecasting the intensity of the earthquake in the sense of the law of averages. It may happen that in the given case a phenomenon will occur which was expected only with a small probability, in which case a different model would be more suitable.

However, under the given assumptions the selected method in the sense of optimum deciding will prove to be the best. Apart from the conditions built into the model, there are also many factors, which affect the occurrence of an earthquake phenomenon and which are not known. The model is only designed for the activity of a single tectonic fault but one may cause larger deviations in forecasting. (The paper is written in English, with English abstract, 6 fig., 5 tab., 6 ref.)

Author: Alexander Molnár

Title: Absolute Probability Distribution of Stress in an Earthquake Focus

Address: Geophysical Institute of Slovak Academy of Sciences, Bratislava, Czechoslovakia

Published in (or presented at):

Contributions of the Geophysical Institute of the Slovak Academy of Sciences, 3 (1972)

Abstract:

This paper presents a method of approach to solving the probabilities of different stress source states in an earthquake focus under an absolute probability distribution. The mechanism of Markov chains has been applied under the assumption of the ergodicity of the accumulation process of stress sources in the focus. The chains are considered to be homogeneous with a constant matrix of transition probabilities. (The paper is written in English, with English abstract, 1 fig., 4 ref.)

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FOR THE YEAR 1967**

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