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in The Netherlands

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SEISMOLOGICAL SURVEY
of the earthquake stations
in the Netherlands

Volume 16
1975

DE WIT 1975



Geographical coordinates of the stations

Code	Latitude (North)	Longitude (East)	Elevation (above m.s.l.)
DBN	52°06'10"	5°10'36"	2 m
HEE	50°53'06"	5°58'56"	115 m
RSB	50°53'18"	5°49'57"	135 m
WIT	52°48'48"	6°40'11"	17 m

SEISMOGRAPH STATION DE BILT (DBN)

The geographic co-ordinates of the seismological station are $52^{\circ}06'10''N$ and $5^{\circ}10'36'' E$. The instruments are placed at a height of 2 m above mean sealevel on a subsoil consisting of sand (pleistocene).

The instruments are: two sets of seismographs (two horizontal and one vertical) with galvanometric recording according to GALITZIN and PRESS-EWING.

Below are given: the period of the galvanometer T_g , the reduced pendulum length l , the distance A between the mirror of the galvanometer and the recording paper, and the rough values for the natural period of the undamped pendulum T , of the damping constant and of the multiplying factor k .

GALITZIN seismographs	NS comp.	EW comp.	Z comp.
Period of galvanometer T_g	24.43 sec	24.96 sec	12.0 sec
Reduced length of pendulum l	123 mm	123 mm	406 mm
Distance A	1380 mm	1380 mm	1380 mm
Period of pendulum T_s	25 sec	25 sec	12 sec
Damping constant	0.0	0.0	0.0
Multiplying factor k	11.0	11.0	175

PRESS-EWING seismographs	NS	EW	Z comp.
Period of galvanometer T_g	90 sec.		
Reduced length of pendulum l	360 mm		
Distance A	1000 mm		
Period of pendulum T_s	30 sec		
Damping constant galvanometer	0.025		
Damping constant pendulum	0.470		
Multiplying factor k	147		

SEISMOGRAPH STATION HEERLEN (HEE)

The geographic co-ordinates of the seismological station are: $50^{\circ}53'06''$ N and $5^{\circ}58'56''$ E.

The instrument, a horizontal seismograph, EW-component, $M = 450$ kg, is placed at a height of 115 m above mean sealevel on a subsoil consisting of loess.

The mean values of the constants are:

T	E	V	V max.	T max.
2	3	400	600	2

SEISMOGRAPH STATION WITTEVEEN (WIT)

The geographic co-ordinates of the seismological station are: $52^{\circ}48'48''$ N and $6^{\circ}40'11''$ E.

The instruments, a GRENET vertical seismograph with galvanometric record, and one vertical WILLMORE seismograph, are placed at a height of 17 m above mean sealevel on a subsoil consisting of pleistocene sand.

The period of the GRENET seismograph is 2.3 sec, the period of the galvanometer is 0.8 sec. The maximum amplification is 6500 for a period of about 1 sec.

The constants for the WILLMORE seismograph are: T seismograph 2 sec, T galvanometer 0,25 sec. The maximum amplification is 30.000 for a period of about 0.4 sec.

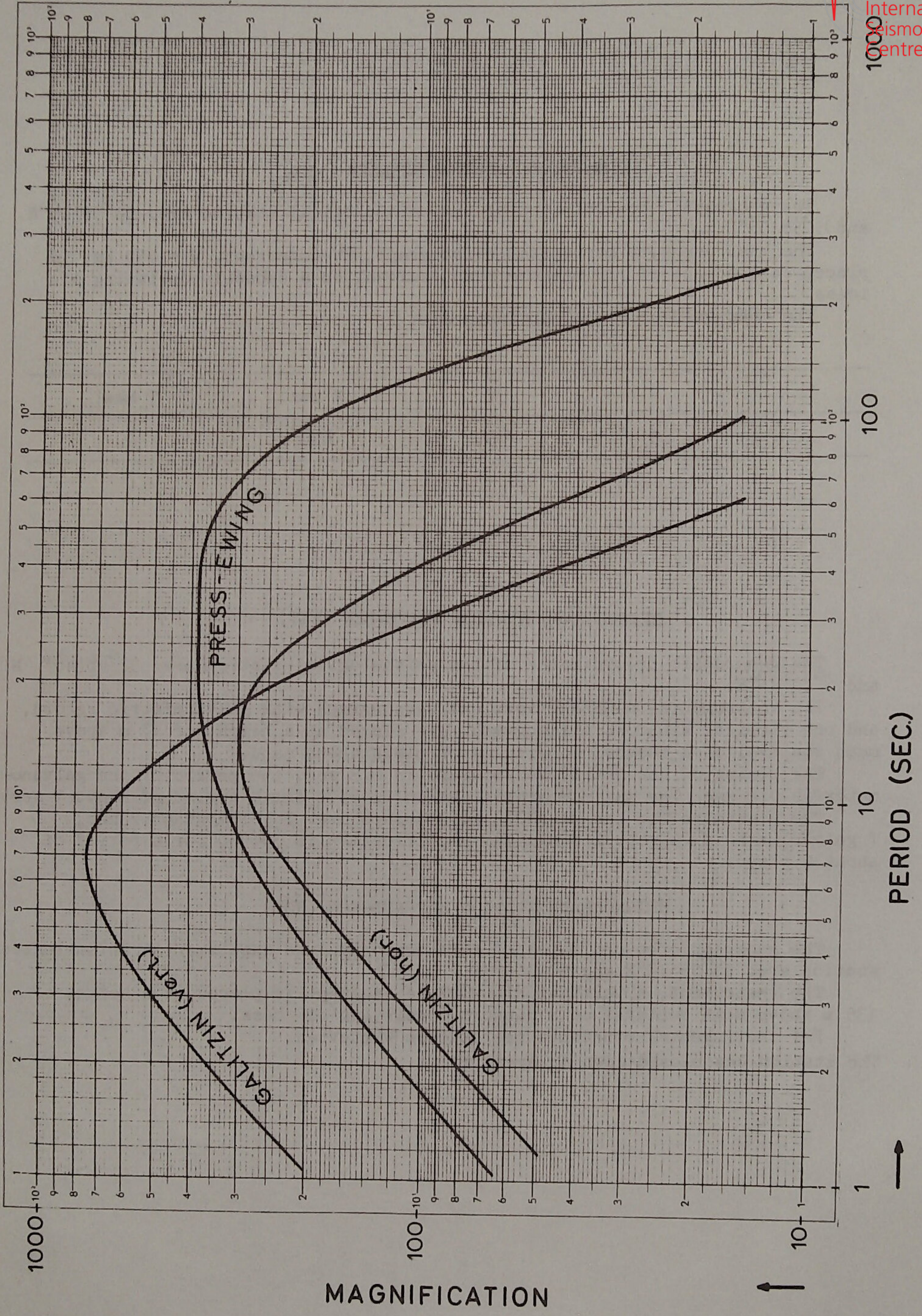
SEISMOGRAPH STATION RAVENSBO SCH (RSB)

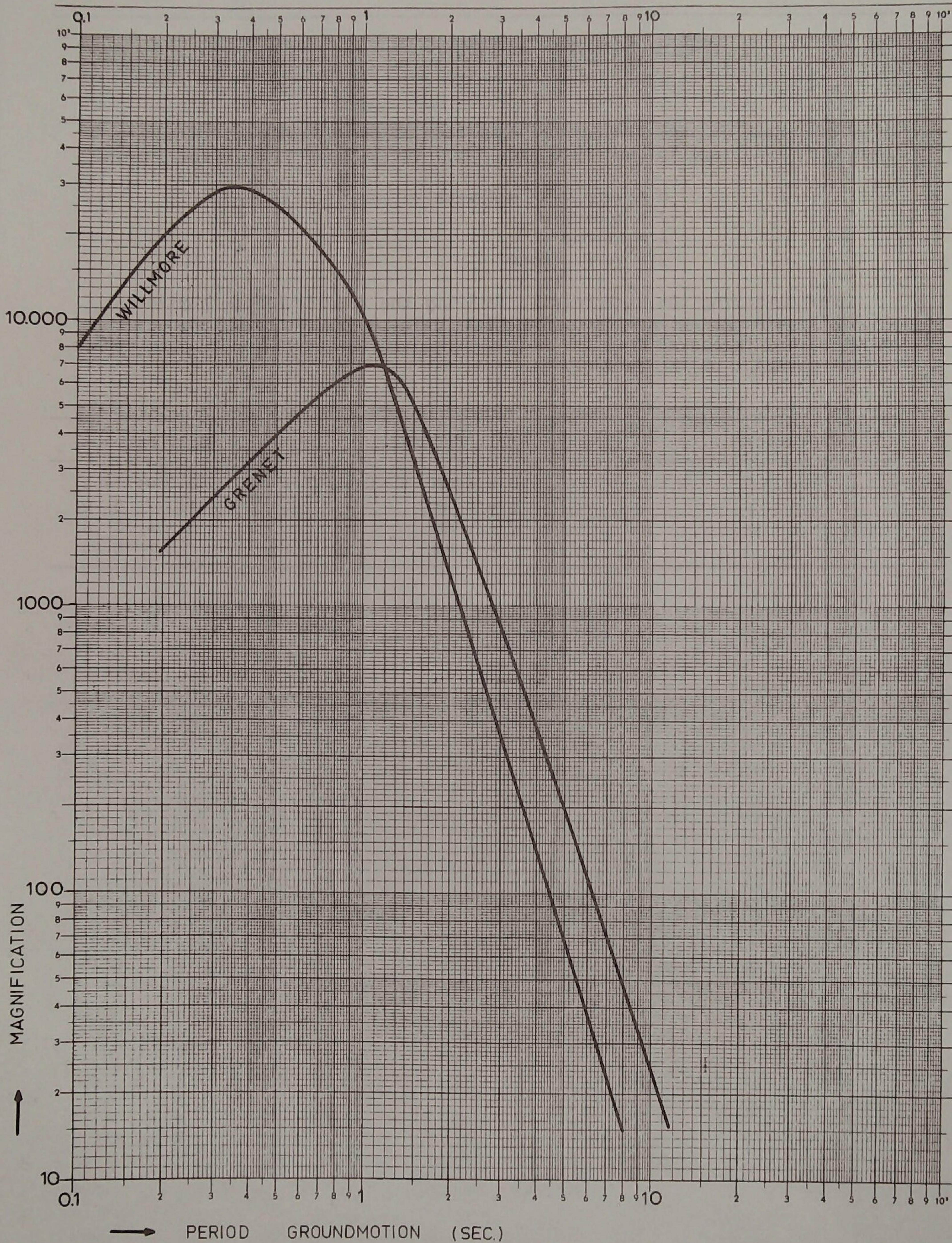
The geographic co-ordinates of this temporary and experimental seismological station are: $50^{\circ}53'18''$ N and $5^{\circ}49'57''$ E.

The instrument, a vertical WILLMORE seismograph is placed at a height of 135 m above mean sealevel on a subsoil consisting of loess.

For instrumental constants see station Witteveen.

The station was closed down at April 10.





THE MICROSEISMIC ACTIVITY.

The table on page 7 shows the character of the microseismic activity (see also 1915 page 101 and 1916 page 101). The numbers 0, 1, 2 and 3 mean:

- 0 = very weak and weak
- 1 = moderate
- 2 = strong
- 3 = very strong

For measuring the microseismic activity the records of the horizontal GALITZIN seismograph were used. The table below gives the amplitudes of the oscillations (measured from the medium line) and the corresponding amplitudes of the movement of the surface.

Character	Ampl. record	Ampl. surface
0	0 - $\frac{1}{2}$ mm	0 - $1\frac{1}{2}$ μ
1	$\frac{1}{2}$ - 2 mm	$1\frac{1}{2}$ - 5 μ
2	2 - 4 mm	5 - 10 μ
3	> 4 mm	> 10 μ

Character of the microseismic movement

Date 1972	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1	3	3 2	1	3 2	0	1	100	0	1	1	2
2	1	3	2	1 2	2 1	0 1	1	0 1	0	1 0	1	2
3	1	3	2 3	2	1 0	1	100	1	0	0	1	212
4	1	332	3	2	0	1	110	1	0	0 1	1	2
5	1	2	3 2	2	1	1	0	1 0	0	1	1	3
6	1	2 1	2	2	101	1 0	0	0	0	1	1 2	3
7	1 2	1	2	2	1	0	001	0 1	0 1	1 0	3 2	3 2
8	2 3	1	2 1	2 1	1	011	1	1	1	0	2 1	2 1
9	3 2	1 2	1	1	1	0 1	1	1	121	0	123	1 2
10	2	2	1	123	1	100	1	1	1	1	3 2	2
11	3 2	2 3	2	2 1	1	0	1	1	1	1	2 1	2 3
12	2	332	2 1	1	2 1	0	1 0	1	1 0	1	1 2	3
13	2	2	1	1	1	0	0	1	0	1	332	3
14	2 3	2	1 0	1	1	0	0	1	0	1	211	2
15	3	2	0 1	1	1	0	0	1	010	1	1	2
16	3	2	1	1	1	0	0	1	011	1	1	212
17	3	2 1	1	1	1	1	0	1	1 0	1	1	2 1
18	3	1	1	1	1	1	0	1	0 1	1	1 2	1
19	3	1	1 0	1	110	1	0	1	100	1	2	1
20	2	1	0	1 0	0	1	0	1	0	1 2	2	1 2
21	2	122	0 1	0	0 1	1	0	1	012	2 1	2 1	2
22	2	1	1	1	1	1	0	1	2 1	1	1	211
23	233	1	1	1	1	1	0	100	1	1 2	1	1
24	3	1	1	1	1 2	101	0	0	1	2 1	1	122
25	322	1	1	1 0	3	1	0	0	1 0	1	1	2 3
26	2 3	1	123	0 1	3 2	1	0 1	0	0 1	112	1	3 2
27	3	1 2	3 2	1	2	1 0	1	0	1	2	1 2	2
28	3 2	2	2 1	1	2	0	1 0	0	1	2	2	2
29	2	2 3	1	1 2	2	0	0	0	1	2	2	212
30	2 1		1	2 3	2	001	0	011	1	2 1	2	233
31	123		1		1		011	1 0		1		3 2



EXPLANATION OF THE TABLES.

The data given in this yearbook have mostly been obtained from the GALITZIN and the PRESS-EWING records. The velocity of the recording paper is 30 mm and 15 mm per minute, respectively.

The data from the seismographs at Heerlen, Witteveen and Ravensbosch are also mentioned.

The time is Greenwich mean time.

In the column "first motion" + means an upward movement of the soil (compression), - means a downward movement (dilatation). Uncertain data have been given in parentheses. The following symbols were used for the phases:

- P = normal first phase, or first longitudinal tremor.
- pP = P-wave once reflected at the earth's surface near the epicentre.
- PP = P-wave reflected halfway between epicentre and station.
- PPP = P-wave two times reflected at the earth's surface.
- S = second phase, arrival of the transversal tremor.
- sS = S-wave reflected at the earth's surface near the epicentre.
- PS = wave changed from longitudinal to transversal oscillation through reflection at the earth's surface.
- PPS = wave twice reflected, having been transversal on one branch of the path.
- SS = S-wave reflected halfway between epicentre and station.
- SSS = S-wave two times reflected at the earth's surface.
- PcP = P-wave reflected at the core boundary.
- ScS = S-wave reflected at the core boundary.
- P' = PKP = wave having penetrated the core.
- S' = SKS = transversal wave, having been longitudinal within the core.
- PKS = alternating wave having penetrated the core.
- pP' = P'-wave reflected near the epicentre.
- sS' = S'-wave reflected near the epicentre.
- SKKS = alternating wave which has been reflected within the core.
- L = long wave or surface waves.
- M = maximum of the surface waves.
- L' = surface waves travelling around the major arc.
- M' = maximum of these waves.
- i = sudden beginning of the phase.
- e = gradual beginning of the phase.
- F = end of the discernable movement
- H = time of the shock at point of origin.
- h = depth of the origin.

The indices H, N, E and Z refer to horizontal, north-south, east-west and vertical components of the movement.

The distance of the epicentre and the depth of origin have been calculated by means of curves constructed with the aid of the time tables of Jeffreys and Bullen (1940).

The data given in the column "amplitude" are the maximum amplitudes measured from the medium line (Galitzin records). The amplitudes have been calculated by means of the formula:

$$V = \frac{A k T b}{\pi l} \frac{1}{\left\{ 1 + \left(\frac{T b}{T} \right)^2 \right\}^2}$$

In this formula A is the distance between galvanometer mirror and recording paper, k is the multiplying factor, T_b the period of the wave, l the reduced length of the pendulum, T the free period of the undamped seismograph, and V the magnification. The period of the galvanometer is assumed to be equal to the free period of the undamped seismograph.

For the horizontal components of the Galitzin records the following mean values were used: $k = 11,0$ and $T = 24,5$ sec, and for the vertical component $k = 175$ and $T = 12,0$ sec.

Whenever it was possible the amplitudes and periods of the first P waves have been given. As the movement of these waves is irregular in general, the accuracy of these data is small. The amplitudes and periods of the maxima of L -waves have been given in case of strong earthquakes.

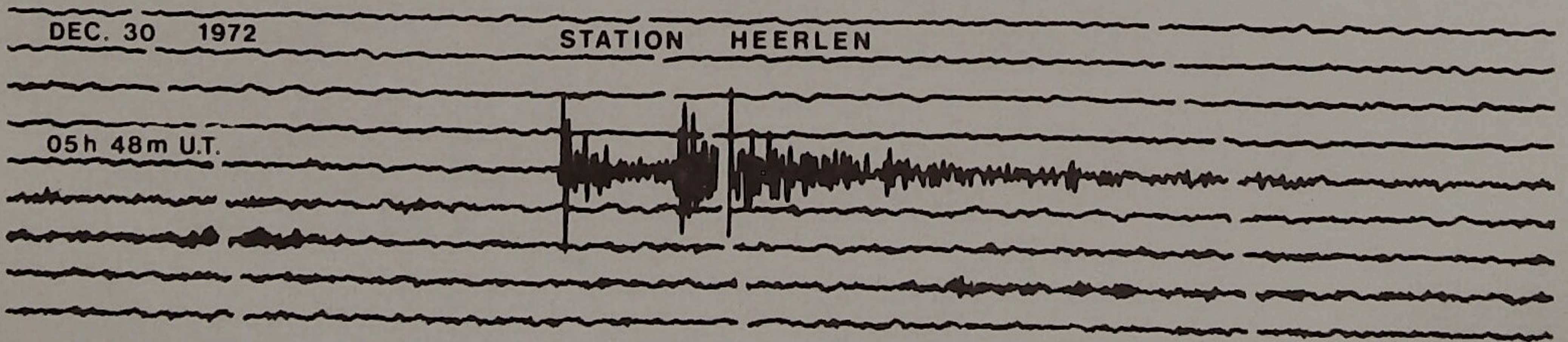
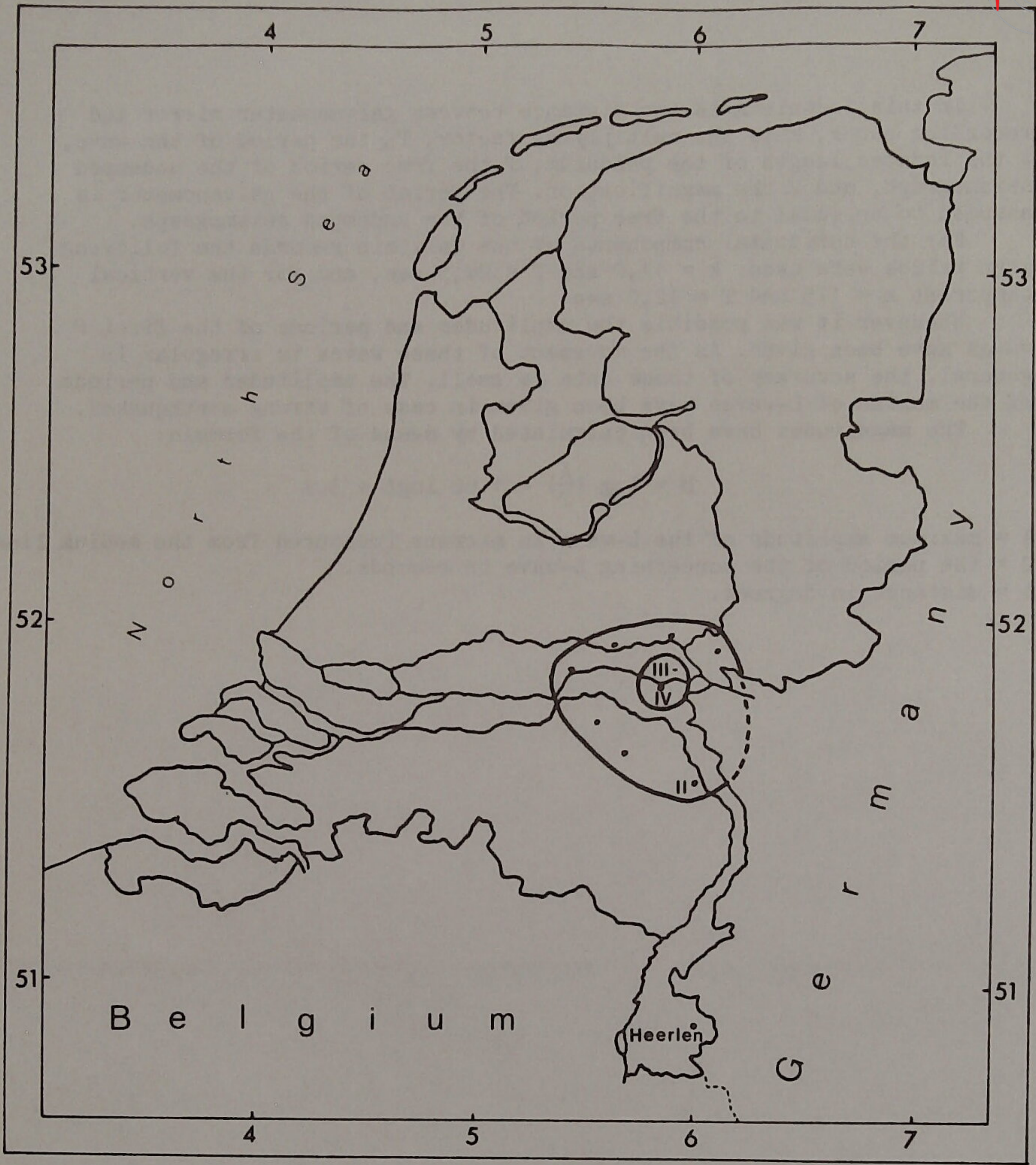
The magnitudes have been calculated by means of the formula:

$$M = \log \left(\frac{A}{T} \right) + 1.66 \log \Delta + 3.3$$

A = maximum amplitude of the L -wave in microns (measured from the medium line).

T = the period of the concerning L -wave in seconds.

Δ = distance in degrees.



E a r t h q u a k e i n t h e N i j m e g e n a r e a

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Jan.	1. DBN: eL F	13	11								64.0N 22.4W, H: 13 01 18.9 h N, Mb 4.5. Iceland.
Jan.	1. DBN: eL F	14	19								No determination of epicenter.
Jan.	1. DBN: eL F	14	52								64.2N 22.4W, H: 14 41 53.3 h N. Mb 4.3. Iceland.
Jan.	1. DBN: iPKP ePP ePKS eSKKS eSPP eSS eSSS eL F WIT: ePKP RSB: ePKP ePP	22	25	28	+						16.7S 174.8E, H: 22 05 59.0 h 56 km. Mb 5.8. Fiji Islands region.
						22		28		7.0	
Jan.	1. RSB: ePKP	23	04	36							17.0S 174.2E, H: 22 44 58.9 h 36 km. Mb 5.2. Fiji Islands region.
Jan.	2. DBN: eL F	10	56								41.8N 84.5E, H: 10 27 34.9 h N. Mb 5.2. Southern Sinkiang Prov., China.
Jan.	2. DBN: eL F	20	24								30.6N 130.7E, H: 19 36 00.5 h 62 km. Mb 4.7. Kyushu, Japan.
Jan.	2. DBN: iP iPP ePPP eS eSP eSS eSSS eL F RSB: eP	22	09	39	+	5	1.5				16.2N 98.4W, H: 21 57 05.0 h 54 km. Mb 5.4. Near coast of Guerrero, Mexico.
						20			3.6	5.8	

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Jan.	3. WIT: eP	06	48	11							51.6N 159.4E, H: 06 36 37.9 h N. Mb 4.8. Off east coast of Kamchatka.
Jan.	3. DBN: eL F	08 08	23 46								16.2N 98.2W, H: 07 38 28.3 h 24 km. Mb 5.0. Near coast of Guerrero, Mexico.
Jan.	3. DBN: eP eS eL F WIT: eP	17 17 17 19.3 17	18 28 42	12 00							51.1N 178.9E, H: 17 06 22.3 h 46 km. Mb 5.5. Ms 5.4. Rat Islands, Aleutian Islands.
Jan.	4. DBN: iP ePP iS eSS eSSS eL F WIT: iP RSB: iP	03 03 03 03 03 03 08.3 03 03	29 32 40 46 49 53	40 55 16 00 20	+ +	6	3.4				22.6N 122.1E, H: 03 16 54.5 h N. Mb 6.1. Ms 6.9. Taiwan region.
Jan.	4. DBN: eL F	13 13	01 20								22.4N 122.2E, H: 12 15 16.6 h N. Mb 4.8. Taiwan region.
Jan.	4. DBN: eL F	18 19	56 28								0.2S 124.9E, H: 17 59 54.0 h 69 km. Mb 5.3. Molucca Sea.
Jan.	4. WIT: ePKP	20	26	27.5							23.8S 180.0E, H: 20 07 35.7 h 558 km. Mb 4.9. South of Fiji Islands.
Jan.	5. DBN: eL F WIT: e RSB: e e	05 05 05 05 05	02.3 04								47.8N 16.2E, H: 04 57 40.8 h 11 km. Mb 4.0. Austria.
Jan.	6. WIT: iP RSB: ePKP e	00 00 00	48 49 50	58.6(-) 03 56	 +						4.6S 151.8E, H: 00 30 17.2 h 160 km. Mb 5.9. New Britain region.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Jan. 6.	DBN: eL F	00	54	02.0							No determination of epicenter.
Jan. 6.	DBN: eL F	04	33	04 43							55.4N 35.2W, H: 04 21 04.3 h N. Mb 4.5. North Atlantic Ocean.
Jan. 6.	DBN: eL F	05	54	06 15							55.3N 35.2W, H: 05 42 40.8 h N. Mb 4.6. North Atlantic Ocean.
Jan. 6.	DBN: eL F RSB: ePKP	13	23	14 33 12 33 16							17.1S 175.9E, H: 12 13 38.9 h N. Mb 5.1. Ms 5.7. Fiji Islands region.
Jan. 6.	DBN: eL F	17	57	18 34							38.1S 73.7W, H: 16 56 45.8 h 30 km. Mb 5.0. Near coast of central Chile.
Jan. 6.	WIT: eP i RSB: iP i	23	04	42 23 05 04.2 23 04 41.5 23 04 58.0	- -						BCIS: 51.6N 7.1E, H: 23 04 20, Germany.
Jan. 7.	RSB: e e	04	18	34 04 18 46							ISC: 20.6S 168.64E, H: 03 58 53.5, h 33 km. Loyalty Islands.
Jan. 7.	DBN: ePS eL F WIT: ePKP	06	55	48 07 22 09.0 06 44 32		24		6.2			2.1S 139.0E, H: 06 25 48.4 h N. Mb 5.9. Ms 5.9. Near north coast of West Guinea.
Jan. 7.	WIT: iP	23	52	25.3	+						20.7S 178.6W, H: 23 33 46.1 h 600 km. Mb 4.4. Fiji Islands region.
Jan. 8.	WIT: iP RSB: iP	03	27	35.5 03 27 42.0	- -						18.8S 173.3W, H: 03 07 56.2 h N N. Mb 5.3. Ms 5.5. Tonga Islands.
Jan. 8.	DBN: iP iPP iS iPS iSS eL F WIT: iP i RSB: iP iPP	05	40	41 05 44 06 05 51 22 05 52 20 05 57 12 06 07 08 42 05 40 35.9 05 40 45.9 05 40 44.0 05 44 11	- - - - - - - + - -	6		9.0			20.9N 120.2E, H: 05 27 52.9 h N. Mb 6.2. Ms 6.3. Philippine Islands region.
						19		125		7.3	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Jan. 8.	DBN: eL F WIT: eP RSB: eP	09 09.5 08 08	01 27 27	 13 20						20.9N 120.3E, H: 08 14 20.0 h N. Mb 5.3. Ms 5.0. Philippine Islands region.	
Jan. 8.	DBN: eS ePS eL F RSB: ePP	12 12 12 13.2 11	01 03 28 53	45 40 40						d.b.m. 55.8S 28.7W, H: 11 34 49.2, h 60 km. Mb 6.2. South Sandwich Islands region.	
Jan. 11.	DBN: eL F	03 03	31 38							15.2N 46.6W, H: 03 04 16.2 h N. Mb 4.6. North Atlantic Ridge.	
Jan. 11.	RSB: e	21	17	19						No determination of epicenter.	
Jan. 12.	DBN: iP eS F WIT: eP RSB: iP epP	10 10 11.8 10 10 10	10 20 11 10 13	59 36 03.0 58.5 02	- - -					d.b.m. 6.9S 71.8W, H: 09 59 10.3, h 580 km. Mb 5.9. Western Brazil.	
Jan. 12.	DBN: eL F WIT: eP	14 14 13	03 11 56	 07.0(+)						35.0N 23.5E, H: 13 51 20.2 h 48 km. Mb 4.9. Crete.	
Jan. 12.	DBN: eS eSS eL F WIT: iP epP RSB: eP epP	18 18 19 19 18 18 18 18	53 57.0 02 12 45 46 46 46	16 57.8 33.5 04.0 40.5	- - - -					37.7N 75.1E, H: 18 37 20.6 h 84 km. Mb 5.6. Tadzhik-Sinkiang border region.	
Jan. 13.	DBN: eL F	17 18	56 41							61.9N 147.1E, H: 17 24 22.6 h N. Mb 5.3. Ms 5.3. Eastern Siberia.	
Jan. 13.	DBN: eL F	22 23	43 00							22.7N 107.9W, H: 21 58 49.1 h N. Mb 5.0. Off coast of central Mexico.	
Jan. 15.	WIT: iP RSB: iP epPKP	03 03 03	58 58 59	41.7(-) 48.5 23.5	- - -					18.3S 174.6W, H: 03 39 17.0 h 130 km. Mb 5.6. Tonga Islands.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Jan. 15.	WIT: eP	19	33	40						16.0N 91.0W, H: 19 21 20.8 h N. Mb 4.7. Mexico-Guatemala border region.	
Jan. 15.	DBN: eP	20	30.9							d.b.m. 40.3N 79.0E, H: 20 21 50.1, h N. Mb 5.4. Ms 5.9. Southern Sinkiang Prov., China.	
	eS	20	38	04							
	eSS	20	41	30							
	eL	20	45.5		15		39		6.4		
	F	22.0									
	WIT: eP	20	30	57							
	e	20	31	10							
	RSB: eP	20	30	50 (+)							
Jan. 18.	DBN: eL	13	23							d.b.m. 54.7N 161.4E, H: 12 43 27.8, h 33 km. Mb 5.6. Ms 5.0. Near east coast of Kamchatka.	
	F	13.6									
	WIT: eP	12	54	44.0 +							
	RSB: eP	12	54	54.5 +							
Jan. 18.	DBN: eSP	22	25	36						d.b.m. 4.8S 145.0E, H: 21 55 15.5. h N. Mb 5.7. Ms 6.6. Near north coast of New Guinea.	
	eSS	22	32	35							
	eL	22	45		21		33		7.0		
	F	01.0									
	WIT: ePKP	22	14	21.0							
	RSB: ePKP	22	14	21.5							
Jan. 18.	RSB: eP	23	27	58						44.2N 8.2E, H: 23 26 11.9 h 25 km. Mb 4.1. Northern Italy.	
	e	23	29	08							
Jan. 19.	WIT: iP	00	42	44.2 -						31.2N 13.9W, H: 00 37 06.7 h N. Mb 4.9. Madeira Islands region.	
Jan. 19.	DBN: eL	15	52		22				19 6.8	d.b.m. 4.7S 145.0E, H: 15 00 54.2, h N. Mb 5.8. Ms 6.4. Near north coast of New Guinea.	
	F	17.8									
Jan. 19.	DBN: eL	21	45							d.b.m. 60.1S 150.4E, H: 20 21 53.8, h N. Mb 5.4. Ms 5.4. West of Macquarie Island.	
	F	22	16								
Jan. 20.	RSB: iP	00	57	04.0 -						36.7N 27.1E, H: 00 52 21.4 h N. Mb 4.6. Dodecanese Islands.	
Jan. 20.	WIT: eP	02	19	57						36.6N 27.1E, H: 02 15 06.7 h N. Mb 4.8. Dodecanese Islands.	
	RSB: eP	02	19	51.0 (-)							

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Jan. 20.	DBN: iP	11	44	49	+	4	2.9			d.b.m. 36.4N 70.7E, H: 11 36 28.6, h 213 km. Mb 6.0. Hindu Kush region.	
	eS	11	51	36							
	F	12	15								
	WIT: eP	11	44	39.0							
	i	11	46	08.1							
	ePP	11	46	34.5							
	RSB: iP	11	44	45.0							
	e	11	46	11.0							
ePP	11	46	40.0								
Jan. 21.	RSB: e	09	41	11.5						No determination of epicenter.	
Jan. 21.	WIT: eP	11	13	28						24.7N 125.0E, H: 11 00 48.4 h 62 km. Mb 4.8. South-western Ryukyu Islands.	
Jan. 21.	DBN: iP	19	30	46	-					6.7S 71.9W, H: 19 18 57.2 h 562 km. Mb 5.6. Western Brazil.	
	eSKS	19	40	20							
	F	20	14								
	WIT: iP	19	30	50.8							
	epP	19	32	54.0							
	RSB: iP	19	30	46.0							
ipP	19	32	50.0								
Jan. 21.	DBN: eL	22	56							35.0S 70.5W, H: 21 56 42.8 h 20 km. Mb 5.1. Ms 4.9. Chile-Argentina border region.	
	F	23	19								
Jan. 22.	DBN: eP	13	21	07		25			8.6	6.2	14.0N 91.0W, H: 13 08 50.3 h 102 km. Mb 5.5. Guatemala.
	ePP	13	24	20							
	eS	13	31	16							
	eSS	13	36	48							
	eSSS	13	40.0								
	eL	13	47.5								
	F	14	38								
	WIT: eP	13	21	08							
	RSB: eP	13	21	09							
	ipP	13	21	28.0							
	e	13	21	36							

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms		
		h	m	s			Z	NS	EW				
Jan. 22.	DBN: iPKP	22	10	22	-	5	2.2			20.5S 172.8E, H: 21 50 38.9 h N. Mb 5.3. Ms 6.3. New Hebrides Islands region.			
	iPP	22	12	10									
	eSS	22	33.0										
	eSSS	22	38.2										
	eL	22	51								25	8.6	6.6
	F	24.8											
	WIT: ePKP	22	10	21.5									
	e	22	11	12									
RSB: ePKP	22	10	27										
e	22	11	08										
Jan. 22.	WIT: ePKP	22	57	05.0	-					18.1S 174.6W, H: 22 37 41.1 h 135 km. Mb 5.2. Tonga Islands.			
	RSB: ePKP	22	57	10									
Jan. 23.	WIT: eP	02	17	43.5						23.6N 102.7E, H: 02 06 01.2 h N. Mb 5.2. Ms 4.8. Yunnan Province, China.			
	RSB: eP	02	17	47									
Jan. 23.	WIT: iPKP	13	12	55.9(+)						20.9S 178.6W, H: 12 54 16.1 h 603 km. Mb 4.8. Fiji Islands region.			
	RSB: ePKP	13	13	01									
Jan. 23.	DBN: eL	19	16							d.b.m. 13.2S 166.6E, H: 18 04 00.2, h 33 km. Mb 5.1. Ms 5.7. New Hebrides Islands.			
	F	19.8											
Jan. 23.	DBN: iPKP	21	37	18	-	8	6.9			d.b.m. 13.2S 166.4E, H: 21 17 52.1, h N. Mb 5.9. Ms 7.1. New Hebrides Islands.			
	iPP	21	40	14									
	iSKP	21	41	00									
	iPPP	21	43	05									
	iPS	21	50	44									
	eSPP	21	52	05									
	eSS	21	58.6								25	73	7.4
	eSSS	22	03.5										
	eL	22	14										
	F	01.2											
	WIT: ePKP	21	37	20.5									
	e	21	37	51.0									
	iPP	21	40	16.8									
	e	21	41	26.0									
	RSB: ePKP	21	37	15									
	i	21	37	53.5									
	i	21	38	14.5									
ePP	21	40	02										
e	21	41	10										

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Jan. 23.	WIT: ePKP	21	53	32						13.0S 166.2E, H: 21 34 37.7 h N. Mb 5.1. New Hebrides Islands.	
	e	21	57	42							
	RSB: ePKP	21	53	39							
	ePP	21	56	54							
	e	21	57	45							
Jan. 24.	RSB: ePKP	04	07	35						20.4S 172.9E, H: 03 47 10.1 h N. Mb 5.2. New Hebrides Islands region.	
Jan. 24.	DBN: eL	05	00							d.b.m. 13.0S 166.4E, H: 03 55 42.5, h 28 km. Mb 5.6. Ms 6.2. New Hebrides Islands.	
	F	06.2									
	WIT: ePP	04	17	50							
	RSB: iPP	04	18	03.5							
Jan. 25.	DBN: iP	02	19	16	-	6	9.0			d.b.m. 22.5N 122.3E, H: 02 06 23.3, h N. Mb 6.3. Ms 7.5. Taiwan region. One killed.	
	iPP	02	22	35							
	iS	02	29	42							
	ePS	02	30	39							
	eSS	02	35	30							
	eSSS	02	38	42							
	eL	02	44			26	1000	8.2			
	F	07.2									
	WIT: iP	02	19	05.4	-						
	i	02	19	13.1	+						
	RSB: iP	02	19	12.5	-						
	e	02	21	27.5							
	ePP	02	22	31							
	eSP	02	30	35							
eL	02	45									
Jan. 25.	WIT: iP	03	54	03.6	-					23.0N 122.2E, H: 03 41 23.7 h N. Mb 5.9. Ms 7.0. Taiwan region.	
	i	03	54	15.9	-						
	RSB: eP	03	54	10							
	i	03	54	23.0	-						
	ePP	03	57	30							
eL	04	28									
Jan. 26.	DBN: iP	23	18	59	-	4	9.8			22.2S 179.0W, H: 23 00 24.4 h 668 km. Mb 5.7. Fiji Islands region.	
	ipPKP	23	21	27							
	iPP	23	22	33							
	ipPP	23	24	54							
	iSP	23	26	01							
	i	23	33	07							
	F	24	30								
	WIT: iP	23	18	54.4	+						
	ipPKP	23	21	25.4							
	RSB: iP	23	18	57	+						
	ipPKP	23	21	31							
ePP	23	22	38								

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Jan. 26.	WIT: iPKP	23	27	33.8	+						20.3S 178.7W, H: 23 09 01.7 h 686 km. Mb 4.9. Fiji Islands region.
Jan. 26.	WIT: iPKP	23	51	06.4	-						20.2S 179.0W, H: 23 32 36.5 h 689 km. Mb 5.1. Fiji Islands region.
	RSB: iPKP	23	51	12	-						
Jan. 28.	DBN: iPKP	01	35	45	-	6	7.6				19.4S 169.1E, H: 01 16 21.7 h 124 km. Mb 6.1. New Hebrides Islands.
	ipPKP	01	36	15							
	iSKP	01	39	09							
	eSKS	01	42	31							
	eSS	01	57.0								
	eSSS	02	02.4								
	eL	02	18								
	F	03.6									
	WIT: iPKP	01	35	41.5	+						
	epPKP	01	36	17							
	iSKP	01	39	13.7							
	RSB: iPKP	01	35	49	-						
	ipPKP	01	36	21							
Jan. 28.	DBN: eL	17	06								20.9N 120.2E, H: 16 18 26.0 h N. Mb 5.4. Ms 4.6. Philippine Islands region.
	F	17	20								
Jan. 29.	DBN: eL	07	36								55.6S 129.4W, H: 06 17 01.0 h N. Mb 4.6. Ms 5.6. South Pacific Cordillera.
	F	07	54								
Jan. 29.	DBN: e(L)	23	22.5								No determination of epicenter.
	F	23	27								
Jan. 30.	DBN: e(L)	04	36.5								No determination of epicenter.
	F	04	40								
Jan. 30.	DBN: e	19	44	42							ISC: 11.26N 86.83W, H: 19 10 08.2, h 55 km. Mb 4.5. Near coast of Nicaragua.
	eL	19	53								
	F	20	26								
Jan. 30.	WIT: ePKP	20	37	19.0							17.8S 178.8W, H: 20 18 51.1 h 649 km. Mb 4.8. Fiji Islands region.
	RSB: ePKP	20	37	25							

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Feb.	1. WIT: eP	00	36	11.0	+						51.8N 177.7E, H: 00 24 30.7 h 57 km. Mb 5.2. Rat Islands, Aleutian Islands.
Feb.	1. DBN: eL F	03 04	50 06								9.8S 160.1E, H: 02 37 24.1 h 39 km. Mb 5.4. Ms 5.4. Solomon Islands.
Feb.	3. DBN: eL F	02 02	46 53								40.7N 48.4E, H: 02 29 21.9 h 39 km. Mb 5.1. Ms 5.0. Eastern Caucasus.
Feb.	3. DBN: eL F	05 05	49 53								57.9N 32.2W, H: 05 37 48.0 h N. Mb 4.6. North Atlantic Ocean.
Feb.	3. DBN: eL F WIT: eP RSB: eP	07 07 07 07	27 35 20 20	24 22							58.1N 32.0W, H: 07 15 17.9 h N. Mb 4.5. North Atlantic Ocean.
Feb.	4. DBN: eL F WIT: eP RSB: eP	02 02 02 02	48.0 51 44 44	55 29							43.8N 133.3E, H: 02 42 18.9 h 25 km. Mb 4.8. Central Italy.
Feb.	4. WIT: iPKP RSB: iPKP	07 07	21 21	28.2 33.5	- -						17.8S 178.6W, H: 07 02 57.6 h 611 km. Mb 4.7. Fiji Islands region.
Feb.	4. DBN: eL F	11 11	24 55								24.1N 143.3E, H: 10 30 49.2 h N. Mb 4.9. Ms 4.8. Volcano Islands region.
Feb.	4. DBN: eL F RSB: eP eS	17 17 17 17	25.7 28 22 23	01 36							43.8N 13.3E, H: 17 19 52.4 h 23 km. Mb 4.4. Central Italy.
Feb.	5. DBN: eL F	01 02	29 30								55.4S 128.7W, H: 00 15 51.2 h N. Mb 5.9. Ms 5.9. South Pacific Cordillera.
Feb.	5. DBN: eL F RSB: eP eS	15 15 15 15	20.4 25 17 18	00 30							43.7N 13.4E, H: 15 14 48.0 h 35 km. Mb 4.7. Central Italy.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	FW		
Feb.	6. DBN: eL F	01	39.8							44.0N 13.2E, H: 01 34 22.4 h N. Mb 4.9. Adriatic Sea.	
Feb.	6. DBN: e(L) F	22	59							12.5N 141.9E, H: 22 03 30.4 h 50 km. Mb 5.5. South of Mariana Islands.	
Feb.	7. DBN: eS eL F	05	30	28	19		2.8		5.6	39.5N 143.4E, H: 05 07 53.7 h 41 km. Mb 5.0. Off east coast of Honshu, Japan.	
Feb.	7. DBN: eL F	08	29							52.3N 160.1E, H: 07 49 48.2 h 60 km. Mb 4.8. Off east coast of Kamschatka.	
Feb.	7. DBN: eP eS eL F WIT: eP RSB: iP	19	27	12	18				3.7	5.7	8.5N 83.9W, H: 19 14 47.6 h 14 km. Mb 5.5. Ms 5.5. Costa Rica.
Feb.	8. DBN: eP ePP eSKS eSP eL F WIT: eP ePP RSB: iP	03	50	45	18		3.4			5.7	19.3N 122.0E, H: 03 37 52.4 h 50 km. Mb 5.7. Philippine Islands region.
Feb.	8. DBN: eL F WIT: iP	19	40								40.0N 142.6E, H: 18 56 47.5 h 55 km. Mb 5.1. Near east coast of Honshu, Japan.
Feb.	9. DBN: eL F	02	20								24.1N 122.4E, H: 01 34 21.5 h 50 km. Mb 4.8. Taiwan region.
Feb.	9. DBN: eL F	16	29								5.0N 82.4W, H: 15 47 43.1 h N. Mb 4.9. South of Panama.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Feb. 9.	DBN: eSP	21	14	52		18	2.7	5.8	51.8S 74.0W, H: 20 44 36.4 h N. Mb 5.5. Ms 5.8. Near coast of southern Chile.		
	eSS	21	21	06							
	eL	21	36								
	F	23	15								
	WIT: ePKP	21	03	33.0							
	RSB: ePKP	21	03	29							
Feb. 10.	WIT: ePKP	03	23	51.0	-				20.8S 178.8W, H: 03 05 09.2 h 575 km. Mb 4.9. Fiji Islands region.		
	RSB: ePKP	03	23	56.5							
Feb. 10.	WIT: iP	05	11	03.6	-				50.0N 78.9E, H: 05 02 57.3 h 0 km. Mb 5.5. Eastern Kazakh SSR.		
	RSB: eP	05	11	14.5	-						
Feb. 11.	DBN: eL	17	43						d.b.m. 0.9S 21.5W, H: 17 14 03.7, h N. Mb 4.9. Central Mid-Atlantic Ridge.		
	F	18	06								
Feb. 12.	DBN: ePKP	19	11	36					15.3S 173.4W, H: 18 51 57.0 h 5 km. Mb 5.9. Ms 5.7. Tonga Islands.		
	eL	20	00								
	F	20	30								
	WIT: ePKP	19	11	36							
	RSB: ePKP	19	11	35.5							
Feb. 13.	WIT: e	06	03	14.5					No determination of epicenter.		
Feb. 13.	DBN: eL	14	12						19.2S 175.1E, H: 13 01 52.8 h 73 km. Mb 5.1. South of Fiji Islands.		
	F	15	06								
	WIT: ePKP	13	21	25							
	RSB: ePKP	13	21	33							
Feb. 13.	DBN: eP	21	33	22	-	22	6.9	5.8	1.0N 28.4W, H: 21 23 22.4 h N. Mb 5.4. Ms 5.5. Central Mid-Atlantic Ridge.		
	eS	21	41	13							
	eSS	21	44	53							
	eL	21	47.6								
	F	22	45								
	WIT: iP	21	33	24.9	-						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms						
		h	m	s			Z	NS	EW								
1972																	
Feb. 14.	DBN: iP	23	46	14	+	9	20			7.6	11.4S 166.3E, H: 23 29 51.7 h 102 km. Mb 6.2. Santa Cruz Islands.						
	ePKP	23	48	36													
	iPP	23	51	47													
	ipPP	23	52	10													
	iPKS	23	52	28													
	ipPKS	23	53	06													
	iPPP	23	54	21													
	eSKS	23	56	03													
	eSKKS	23	58	30													
	iSP	00	01	50													
	ePPS	00	03	52													
	iSS	00	09	40													
	eSSS	00	14	34													
	eL	00	30														
	F	04.1															
	WIT: ePKP	23	48	53.5	22	114											
	e	23	49	01.5													
	i	23	49	05.5													
	i	23	49	29.0													
	i	23	52	00.5													
	RSB: ePKP	23	48	56.5													
	i	23	49	06.5													
	i	23	49	33.5													
	iPP	23	51	53.5													
	ipPP	23	52	17.5													
	iSKP	23	52	34.0													
	HEE: eL	00	42														
Feb. 15.	WIT: ePKP	04	28	26.5								+					15.8S 173.7W, H: 04 09 03.9 h 92 km. Mb 4.8. Tonga Islands.
	RSB: ePKP	04	28	31.5													
Feb. 15.	HEE: e	07	41	10							No determination of epicenter.						
Feb. 15.	WIT: eP	21	31	45.0	-						17.5S 71.2W, H: 21 18 21.2 h 71 km. Mb 5.7. Near coast of Peru.						
Feb. 17.	DBN: eL	00	42								17.6N 76.0W, H: 00 13 01.5 h 21 km. Mb 5.1. Jamaica region.						
	F	01	04														
Feb. 17.	HEE: i(Sg)	04	03	41							BCIS: 50.6N 6.0E, H: 04 03 31, Germany-Belgium border region.						
	RSB: e	04	03	38													
	e	04	03	41													
Feb. 18	HEE: i	15	43	31							No determination of epicenter.						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Feb. 19.	HEE: iSg RSB: iPg iPn eSg	00	41	37 32.2 38.3 44	+ -						50.4N 5.9E, H: 00 41 22.9 h 26 km. Belgium
Feb. 19.	DBN: eL F	08 10	56 24								12.9N 121.3E, H: 08 07 02.1 h 14 km. Mb 4.9. Mindoro Philippine Islands.
Feb. 19.	DBN: eL F WIT: eP RSB: eP	14 15 14 14	37 15 06 06	39.5(-) 49.0	+ +						44.6N 149.1E, H: 13 54 45.8 h 50 km. Mb 5.4. Kuril Islands.
Feb. 20.	DBN: eL F WIT: iP RSB: eP	06 07 06 06	47 45 20 20	42.2 45.5	+ +	15			3.6	5.7	29.9N 113.5W, H: 06 08 17.9 h N. Mb 5.4. Ms 5.4. Gulf of California.
Feb. 20.	DBN: eL F RSB: ePKP	15 15 14	29 42 29	45							21.6S 169.5E, H: 14 09 57.3 h 18 km. Mb 4.8. Loyalty Islands region.
Feb. 21.	DBN: iP ipP eS eL F WIT: eP i ipP RSB: eP i ipP	19 19 19 20 21.0 19 19 19 19 19 19	46 46 55 08 21.0 46 46 46 46 46 46	08 20 25 08 03 04.5 22.6 16 17 34	+ - - - - - - - - -	4	2.1				55.9N 158.3W, H: 19 34 50.9 h 60 km. Mb 5.7. Alaska Peninsula.
Feb. 21.	WIT: eP RSB: eP	22 22	12 12	16 27							54.4N 161.3E, H: 22 00 58.8 h N. Mb 4.8. Near east coast of Kamchatka.
Feb. 22.	WIT: eP RSB: eP epP	01 01 01	22 23 23	57.0 02.5 48							36.4N 70.6E, H: 01 14 47.5 h 212 km. Mb 5.3. Hindu Kush region.
Feb. 22.	WIT: eP RSB: eP	18 18	55 55	46.0 49							10.4N 92.5E, H: 18 43 42.0 h N. Mb 5.4. Andaman Islands region.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Feb. 22.	DBN: eL F WIT: eP	20	40			26		4.9		5.8	41.8N 142.8E, H: 19 59 56.8 h 56 km. Mb 5.3. Hokkaido, Japan region.
Feb. 23.	DBN: eL F RSB: ePKP	19	30								15.1S 173.0W, H: 18 19 04.6 h 51 km. Mb 5.7. Tonga Islands.
Feb. 24.	DBN: eL F WIT: iP epP RSB: eP epP	02	19								55.8N 158.2W, H: 01 43 04.5 h 66 km. Mb 5.3. Alaska Peninsula.
Feb. 24.	DBN: eL F	16	39								36.6N 121.2W, H: 15 56 51.1 h 5 km. Mb 4.9. Ms 4.0. Central California.
Feb. 24.	DBN: eL F WIT: ePKP RSB: ePKP e	17	06								22.4S 171.8E, H: 15 51 11.9 h N. Mb 5.5. Ms 5.2. Loyalty Islands region.
Feb. 25.	DBN: ePKP iPP ePPP eSKS iPS eSPP eSS eSSS eL F RSB: ePP	01	35	44							60.6S 25.7W, H: 01 17 12.5 h N. Mb 6.0. Ms 6.1. South Sandwich Islands region.
Feb. 25.	WIT: eP RSB: eP i	01	53	47.0	+						46.9N 27.4W, H: 01 48 47.3 h N. Mb 4.7. North Atlantic Ridge.
Feb. 25.	WIT: iP RSB: ePKP	09	03	16.4	-						25.1S 179.7W, H: 08 44 12.0 h 450 km. Mb 5.2. South of Fiji Islands.
Feb. 25.	DBN: eL F	14	57								No determination of epicenter.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Feb. 26.	DBN: eL	02	55							49.2N 156.2E, H: 02 12 57.3 h N. Mb 4.9. Kuril Islands.	
	F	03	25								
	WIT: eP	02	24	38.5							
	RSB: eP	02	24	49.0	-						
Feb. 26.	DBN: eS	23	48	13						50.6N 97.3E, H: 23 31 09.6 h N. Mb 5.3. Ms 4.6. USSR-Mongolia border region.	
	eSS	23	52	24							
	eL	24	00			14		6.5	5.7		
	F	24	50								
	WIT: iP	23	40	23.6	+						
	RSB: eP	23	40	34.5	(-)						
Feb. 27.	WIT: eP	12	18	49.5	-					34.8N 9.1W, H: 12 14 03.7 h N. Mb 4.7. West of Gibraltar.	
	RSB: eP	12	18	30							
	eS	12	21	54							
Feb. 28.	DBN: eL	11	03							37.0N 24.2E, H: 10 52 43.7 h 11 km. Mb 4.8. Southern Greece.	
	F	11	09								
	WIT: eP	10	57	17.5							
	e	10	57	19.0							
	RSB: eP	10	57	10							
	e	10	57	49							
Feb. 28.	WIT: eSn	15	42	28						BCIS: 49.4N 8.3E, H: 15 41 07, Germany.	
	RSB: eP*	15	41	48.0							
	ePg	15	41	56.0							
	e	15	42	19.5							
	HEE: eSg	15	42	17							
Feb. 29.	DBN: iP	09	35	39	+	6	13.8			33.3N 140.8E, H: 09 22 59.8 h 56 km. Mb 6.3. South of Honshu, Japan.	
	iZ	09	36	12							
	iPP	09	39	09							
	iPPP	09	40	57							
	iH	09	45	26							
	iS	09	46	08							
	iSP	09	47	08							
	eSS	09	52	00							
	eSSS	09	55.3								
	eL	10	01			24		194	7.5		
	F	13.8									
	WIT: eP	09	35	32.0	+						
	ipP	09	35	53.3							
	i	09	37	14.0	-						
	RSB: iP	09	35	40.5	+						
	iPP	09	39	15.0							
e	09	45	59								
eL	10	01									
HEE: i	09	35	54								
Feb. 29.	WIT: iP	09	55	13.6	-					33.5N 140.9E, H: 09 42 41.9 h 63 km. Mb 5.8. South of Honshu, Japan.	
	RSB: iP	09	55	21.5	-						

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
	March 1.	WIT: iPKP	09	24	21.3	+					18.9S 173.8W, H: 09 04 41.7 h N. Mb 5.8. Ms 5.3. Tonga Islands.
		i	09	24	42.3	-					
	RSB: iPKP	09	24	26.5	+						
March 2.	DBN: eL	10	02							40.5N 125.2W, H: 09 28 56.7 h N. Mb 5.4. Ms 5.9. Off coast of Northern California.	
	F	10	46								
	RSB: eP	09	41	06							
March 2.	DBN: eL	20	56							33.4N 140.8E, H: 20 10 08.2 h 57 km. Mb 5.7. South of Honshu, Japan.	
	F	21	22								
	WIT: eP	20	22	40.0	+						
	ipP	20	22	52.1	+						
	RSB: iP	20	22	49.0	+						
March 4.	WIT: iPKP	03	17	11.5	-					21.8S 179.5W, H: 02 58 28.0 h 570 km. Mb 5.4. Fiji Islands region.	
	i	03	17	17.7	+						
	RSB: iPKP	03	17	16.5	-						
	i	03	17	26.5	+						
March 4.	DBN: eP	19	17	04						71.3N 5.3W, H: 19 12 24.6 h N. Mb 5.0. Ms 4.8. Jan Mayen Island region.	
	eL	19	21.7								
	F	19	36								
	WIT: iP	19	16	48.2	-						
	e	19	16	55.0							
	RSB: iP	19	17	08.5	+						
	i	19	17	17.5	-						
March 5.	WIT: eP	03	15	25.0	+					51.3N 170.9W, H: 03 03 37.0 h N. Mb 5.2. Fox Islands, Aleutian Islands.	
	RSB: eP	03	15	36.0							
March 6.	DBN: e	03	58							No determination of epicenter.	
	F	04	07								
March 7.	DBN: eL	07	02							22.3N 122.2E, H: 06 19 50.0 h N. Mb 5.0. Taiwan region.	
	F	07	28								
March 7.	DBN: ePKP	08	04.9							d.b.m. 28.2S 178.3W, H: 07 45 21.9, h 192 km. Mb 6.2. Kermadec Islands region.	
	eL	08	58								
	F	09.9									
	WIT: ePKP ₁	08	04	53.0	(+)						
	i	08	05	02.8	+						
	iPKP ₂	08	05	13.5	+						
	RSB: iPKP ₁	08	04	57.0	(+)						
	i	08	05	05.0	+						
	i	08	05	28.0	-						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
March 7.	DBN: eL F	14	41	15.1							d.b.m. 14.6N 93.8W, H: 13 57 10.6, h N. Mb 4.8. Ms 5.0. Near coast of Chiapas, Mexico.
March 8.	DBN: ePS eSS eL F	04	14.6	04 20.0 04 40 05.6							3.7S 131.4E, H: 03 45 25.2 h N. Mb 5.9. Ms 5.8. West New Guina region.
March 8.	DBN: eL F	07	50	08 33							22.5S 171.5E, H: 06 36 27.2 h 30 km. Mb 5.0. Loyalty Islands region.
March 8.	DBN: eL F	10	48	11 07							14.6N 93.9W, H: 10 05 28.4 h N. Mb 4.9. Near coast of Chiapas, Mexico.
March 9.	DBN: eL F	06	03	07 10							14.9S 176.4W, H: 04 49 26.8 H 143 km. Mb 4.9. Fiji Islands region.
March 10.	WIT: iP RSB: eP	05	05	01.9 + 12							49.8N 78.2E, H: 04 56 57.4 h 0 km. Mb 5.5. Eastern Kazakh SSR.
March 10.	WIT: iP RSB: eP	10	35	58.8 - 54							10.8N 62.9W, H: 10 25 03.4 h 128 km. Mb 5.2. Near coast of Venezuela.
March 11.	DBN: eL F	04	29	05 07		18			4.7	5.8	13.4N 90.0W, H: 03 50 45.9 h 85 km. Mb 5.1. Near coast of Guatemala.
March 11.	DBN: eL F	05	20	05 28							22.5N 124.0E, H: 04 32 27.3 h 31 km. Mb 4.9. Southeast of Taiwan.
March 12.	WIT: e	19	04	28.5							No determination of epicenter.
March 14.	DBN: eL F WIT: eP RSB: eP	01	32	02 09 00 59 52.5 00 59 58							33.3N 140.9E, H: 00 47 13.9 h 38 km. Mb 5.4. Ms 4.7. South of Honshu, Japan. Japan.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
March 14.	DBN: iP	14	10	30	-	10	15.8	5.5		39.3N 29.4E, H: 14 05 45.8 h 33 km. Mb 5.4. Ms 4.9. Turkey.	
	iS	14	14	28							
	eL	14	15.5								
	F	15	13								
	WIT: eP	14	10	25.0	-						
	i	14	10	25.7	+						
	i	14	10	30.1	-						
	RSB: eP	14	10	20.0	-						
	i	14	10	21.0	+						
iPP	14	10	45.0								
March 15.	DBN: eL	06	34.5							30.4N 84.5E, H: 06 00 32.4 h N. Mb 5.3. Tibet.	
	F	06	42								
	WIT: eP	06	10	33							
	RSB: eP	06	10	39.5							
March 15.	DBN: eP	11	34	55						51.6N 176.8E, H: 11 23 08.7 h 39 km. Mb 5.4. Ms 4.9. Rat Islands, Aleutian Islands.	
	eS	11	44.9								
	eSS	11	49.7								
	eSSS	11	53.1								
	eL	12	00								
	F	13.0									
	WIT: eP	11	34	51.5							
	RSB: eP	11	35	02.0							
e	11	35	15								
March 15.	DBN: eL	20	35							6.7N 126.4E, H: 19 41 07.6 h 42 km. Mb 4.9. Mindanao, Philippine Islands.	
	F	20	52								
March 16.	WIT: eP	03	39	48.0	+					38.0N 23.4E, H: 03 35 36.6 h 146 km. Mb 4.2. Greece.	
	RSB: eP	03	39	40.5	(+)						
March 16.	DBN: eL	05	57							15.7N 121.8E, H: 05 09 06.2 h 53 km. Mb 5.1. Luzon, Philippine Islands.	
	F	06	35								
	RSB: eP	05	22	28.5							
March 16.	DBN: eL	21	39.8							37.4N 2.2W, H: 21 31 33.4 h N. Mb 4.8. Spain.	
	F	21	43								
	RSB: e(S)	21	38	22							
	eL	21	39.3								
March 17.	WIT: ePKP ₁	00	40	26						24.7S 179.6W, H: 00 21 25.8 h 407 km. Mb 5.6. South of Fiji Islands.	
	i	00	40	32.9	+						
	e	00	40	42.0	+						
	RSB: ePKP ₁	00	40	28.5							
	i	00	40	37.0	+						
	iPKP ₂	00	40	51.5	+						
	ePP	00	44	25							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
March 17.	WIT: eP RSB: eP	08	00	44.0	(-)						49.0N 156.2E, H: 07 49 02.3 h N. Mb 5.2. Kuril Islands.
March 17.	DBN: eL F	08	04								27.0N 127.7E, H: 07 20 07.6 h 38 km. Mb 4.9. Ryukyu Islands.
March 17.	DBN: eL F	09	40								40.1N 69.7E, H: 09 17 10.5 h 26 km. Mb 5.2. Tadzhik SSR.
March 18.	WIT: eP RSB: eP epP	00	52	42.5							46.9N 143.7E, H: 00 41 48.3 h 405 km. Mb 5.0. Sakhalin Island.
March 18.	DBN: iP ePP eS eL F WIT: eP RSB: iP	15	05	29	+						68.8N 17.3W, H: 15 00 59.7 h N. Mb 4.9. Ms 4.5. Iceland region.
March 18.	DBN: eP eS eL F WIT: iP e RSB: eP i i	23	30	21							33.5N 141.2E, H: 23 17 40.9 h 47 km. Mb 5.9. Ms 5.4. Off east coast of Honshu, Japan.
March 19.	DBN: iP ipP iPP iS isS eSS eSSS eL F WIT: iP ePP RSB: iP e ePP	16	09	52	(+)	5	1.2				40.8N 141.9E, H: 15 57 50.4 h 76 km. Mb 6.0. Near east coast of Honshu, Japan.
						19	4.2			5.8	

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
March 20.	DBN: eP	07	46	45	+	6	3.4				6.8S 76.8W, H: 07 33 49.6 h 64 km. Mb 6.1. Northern Peru. 7 killed.
	i	07	46	48	+						
	iPP	07	50	22							
	iS	07	57	39							
	iPS	07	58	55							
	eSS	08	03	41							
	eL	08	18			24			24.5	6.6	
	F	10	50								
	WIT: eP	07	46	50.5							
	i	07	46	52.8	+						
	ipP	07	47	05.8	+						
	RSB: eP	07	46	46.0	+						
	i	07	46	49.0	+						
	ipP	07	47	02.5	-						
	iPP	07	50	26.0							
March 20.	RSB: eP	17	03	28							6.8S 76.8W, H: 16 50 27.1 h N. Mb 5.4. Ms 4.3. Northern Peru.
March 20.	DBN: eL	18	05								23.8S 115.3W, H: 17 02 46.5 h N. Mb 5.4. Easter Island Cordillera.
	F	18	44								
March 20.	DBN: iP	23	43	38	+						51.3N 179.2W, H: 23 31 48.8 h 46 km. Mb 6.0. Ms 5.4. Andreanof Islands, Aleutian Islands.
	ePP	23	46	32							
	iS	23	53	37							
	eSS	23	58	55							
	eL	24	08			18			2.1	5.5	
	F	02	13								
	WIT: iP	23	43	33.5	+						
	RSB: iP	23	43	44.0	+						
March 21.	WIT: ePKP	00	01	54.5							24.6S 179.7W, H: 23 42 56.8 h 516 km. Mb 5.0. South of Fiji Islands.
	epPKP	00	03	53.0							
	RSB: ePKP	00	01	58							
	e	00	02	11							
	epPKP	00	04	01							
March 21.	WIT: iP	09	59	33.2	+						50.0N 176.2W, H: 09 47 38.3 h 33 km. Mb 5.4. Ms 4.4. Andreanof Islands, Aleutian Islands.
	RSB: eP	09	59	43.5							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
March 21.	DBN: eL F WIT: eP RSB: eP e	23	14.2			15			3.2	4.7	35.8N 14.8E, H: 23 06 48.5 h N. Mb 4.6. Mediterranean Sea.
March 22.	DBN: eL F	01	06.0								40.3N 42.1E, H: 00 51 51.6 h 34 km. Mb 4.8. Turkey.
March 22.	DBN: eL F	01	20								No determination of epicenter.
March 22.	DBN: eL F WIT: eP RSB: eP	03	35								53.0N 159.6E, H: 02 59 09.0 h 41 km. Mb 5.2. Ms 4.4. Near east coast of Kamchatka.
March 22	RSB: ePn eP* eL	10	21	02.0	-						BCIS: 49.2N 6.0E, H: 10 20 33. France Mine-gallery collapse.
March 22.	DBN: iP ipP isP iPP ipPP iPPP ipPPP iS isS iSS isSS eL F WIT: eP epP RSB: iP i ipP HEE: eP e	10	39	14	-	6	19.3				49.1N 153.6E, H: 10 27 41.9 h 134 km. Mb 6.3. Kuril Islands.
March 22.	DBN: iP WIT: iP RSB: iP	16	13	18	(+)						21.2S 174.4W, H: 15 53 30.9 h N. Mb 5.6. Ms 5.7. Tonga Islands.

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
March 22.	DBN: iP	16	38	00	+	4	2.6		12.6	5.3	71.0N 6.8W, H: 16 33 32.4 h N. Mb 5.3. Jan Mayen Island region.
	iS	16	41	44							
	eL	16	42.7								
	F	in next shock									
	WIT: eP	16	37	56.0							
March 22.	RSB: eP	16	38	13							
	DBN: eL	17	20								No determination of epicenter.
March 22.	F	18	22								
	DBN: eL	08	25								15.4S 172.9W, H: 07 16 53.3 h N. Mb 5.5. Ms 5.5. Samoa Islands region.
March 23.	F	09.0									
	RSB: ePKP	07	36	28.0							
March 23.	e	07	36	33.5							
	DBN: eL	22	29								11.6N 141.9E, H: 21 31 37.5 h 71 km. Mb 4.8. West Caroline Islands.
March 23.	F	22	51								
	DBN: iP	03	49	40	+	4	2.3				56.1N 157.2W, H: 03 38 27.1 h 69 km. Mb 6.0. Alaska Peninsula.
i	03	50	05								
iS	03	58	55								
eSS	04	03.1									
eL	04	09									
March 24.	F	05.0									
	WIT: eP	03	49	37.0							
March 24.	e	03	49	51.0							
	e	03	50	03.0							
March 24.	RSB: iP	03	49	47.0							
	i	03	50	13.0							
March 24.	WIT: ePKP	06	26	15.5							20.0S 177.7W, H: 06 07 35.2 h 570 km. Mb 5.0. Fiji Islands region.
	RSB: iP	06	26	20.5							
March 24.	e	06	26	26.5							
	RSB: eP	08	21	20							42.9N 87.4E, H: 08 11 52.8 h N. Mb 5.0. Northern Sinkiang Prov. China.
March 24.	DBN: eL	18	08								7.2N 123.8E, H: 17 17 40.7 h N. Mb 5.5. Mindanao, Philippine Islands.
	F	18	38								
March 24.	DBN: eL	23	35								53.1N 159.7E, H: 22 56 24.7 h 41 km. Mb 5.4. Ms 4.6. Near coast of Kamchatka.
	F	23	51								
March 24.	WIT: eP	23	07	48.0							
	RSB: eP	23	07	58							

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
March 25.	DBN: eP eS eL F WIT: iP epP RSB: iP	01 01 01 02 01 01 01	07 17 28 17 07 08 07	36 07 36 12.0 47.0	+ +						48.0N 153.2E, H: 00 56 05.1 h 134 km. Mb 5.8. Kuril Islands.
March 25.	DBN: eL F	06 06	29 37								25.4N 100.8E, H: 05 58 08.2 h N. Mb 4.8. Mongolia.
March 25.	DBN: eL F WIT: ePKP RSB: ePKP	06 07 05 05	50 33 46 46	29.5 32.5							21.7S 174.6W, H: 05 26 41.0 h N. Mb 5.4. Ms 4.9. Tonga Islands.
March 25.	DBN: iP eSKS iSP eSS eSSS eL F WIT: ePP RSB: ePP	12 12 12 12 12 13 15.5 12 12	36 41 46 52 57.2 07 15.5 36 36	09 13 01 44 29.6 6.5		23	11.9	6.5			3.5S 150.1E, H: 12 15 29.6 h 41 km. Mb 5.5. Ms 6.4. New Ireland region.
March 25.	DBN: iP iPP iS eSP eSPP eSS eL F WIT: eP epP RSB: iP ipP	23 23 23 23 23 23 23 23 23 23 23 23 23 23 23 23	11 14 21 22 22 27.0 35 01.9 11 11 11 11	42 41 37 12 42 27.0 35 01.9 35.5 48.5 46.5 58.5	+ +	4	4.0				43.4N 146.0E, H: 22 59 40.3 h 43 km. Mb 5.8. Ms 6.0. Kuril Islands.
March 26.	WIT: e	04	29	11.5							ISC: 16.67S 178.12W, H: 04 09 41.2, h 0 km. Mb 4.8. Fiji region.
March 27.	WIT: iP	11	31	04.2	-						17.9S 178.5W, H: 11 12 28.1 h 570 km. Mb 5.2. Fiji Islands region.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms	
		h	m	s			Z	NS	EW			
March 28.	WIT: eP	04	30	01.0	+						49.7N 78.2E, H: 04 21 57.3 h 0 km. Mb 5.2. Eastern Kazakh SSR.	
March 28.	WIT: iPKP RSB: iPKP	14	18	12.0 20.0	+						30.7S 179.8W, H: 13 58 21.9 h 337 km. Mb 5.7. Kermadec Islands region.	
March 30.	WIT: iPKP RSB: iPKP e	02	51	26.1 31.0 39.0	+						23.3S 176.8W, H: 02 31 47.8 h 125 km. Mb 5.2. South of Fiji Islands.	
March 30.	DBN: iPKP ₁ iPKP ₂ ipPKP ₁ ipPKP ₂ eSKS eH eSS eSSS eL F WIT: ePKP ₁ i i i i RSB: iPKP ₁ i i i i	05	53	46 09 42 10 40 16 45 38 06.8 08.2 44.7 50.0 58.0 09.9 59.0 47.5 53.5 03.0 20.5	+	7	3.8					25.7S 179.4E, H: 05 34 54.7 h 532 km. Mb 6.2. South of Fiji Islands.
March 30.	DBN: eL F	11	56								29.8S 71.4W, H: 11 00 20.1 h 72 km. Mb 5.6. Near coast of Central Chile.	
March 31.	DBN: e(L) F	03		11.9 13.0							36.5N 21.2E, H: 02 58 02.4 h N. Mb 4.7. Southern Greece.	
March 31.	DBN: ePP eSKS iSP eSPP eSS eSSS eL F	15	56	02 12 38 36 11.7 15.7 30 40		19	5.2			6.2	55.3S 29.1W, H: 15 36 53.5 h N. Mb 5.5. Ms 5.9. South Sandwich Islands region.	

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
April	1.	WIT: iPKP	11	20	14.7	-					21.4S 176.8W, H: 11 00 52.4 h 216 km. Mb 5.2. Fiji Islands region.
		RSB: iPKP	11	20	20.0	-					
		i	11	20	27.0						
April	2.	DBN: ePKP ₁	00	11	16						49.5S 163.7E, H: 23 51 23.0 h N. Mb 6.0. Ms 6.3. Auckland Islands region.
		iPKP ₂	00	12	32						
		iPP	00	16	19						
		eSKKS	00	23	00						
		eSPP	00	29	58						
		eSS	00	37.0							
		eL	01	10		19			7.6	6.6	
		F	02.8								
		WIT: ePKP ₁	00	11	28						
		ePKP ₂	00	12	25						
		RSB: ePKP ₁	00	11	22						
		ePKP ₂	00	12	19						
April	2.	DBN: eL	06	00							22.3S 171.6E, H: 04 49 17.7 h 53 km. Mb 5.3. Loyalty Islands region.
		F	06.5								
April	2.	DBN: eL	10.2								16.1S 173.1W, H: 09 01 23.8 h N. Mb 5.9. Ms 5.8. Tonga Islands.
		F	10.6								
		WIT: ePKP	09	20	54.5						
		RSB: iPKP	09	21	00	+					
April	2.	RSB: iPKP	15	56	18.5						16.2S 172.9W, H: 15 36 46.7 h 69 km. Mb 5.4. Samoa Islands region.
April	2.	DBN: ePKP	21	49	58	+					13.3S 166.1E, H: 21 30 05.4 h N. Mb 5.4. Ms 6.6. New Hebrides Islands.
		iPP	21	52	08						
		ePPP	21	55	27						
		eSKS	21	56.4							
		eL	22.7			18			13.6	6.7.	
		F	24.5								
April	3.	DBN: iP	18	58	14	+	5	2.9			54.3N 35.1W, H: 18 52 59.3 h N. Mb 5.4. Ms 5.7. North Atlantic Ocean.
		eS	19	02	38						
		eL	19	04.0		16			19.5	5.7	
		F	19.7								
		WIT: iP	18	58	20.6	+					
		RSB: eP	18	58	20.0						
		e	18	58	22.5						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms	
		h	m	s			Z	NS	EW			
1972 April 3.	DBN: iP	20	41	36	+	5	3.6		30	5.8.	54.3N 35.1W, H: 20 36 22.2 h N. Mb 5.2. Ms 5.5. North Atlantic Ocean.	
	eS	20	46	00								
	eL	20	47.5									
	F	21.6										
	WIT: eP	20	41	42.0								
	e	20	42	07								
	RSB: eP	20	41	44.0								
	e	20	41	46.0								
i	20	42	04.0	-								
April 4.	DBN: eL	23.7									d.b.m. 7.4S 125.6E, H: 22 43 06.7, h 377 km. Mb 6.6. Banda Sea.	
	F	24.5										
	WIT: iP	23	01	01.5(+)								
	e	23	11	47.0								
	i	23	11	48.7								+
	i	23	11	57.7								-
	RSB: iP	23	01	03.5								-
	e	23	01	56.0								
	i	23	02	10.0								
	epPKP	23	03	56								
	i	23	11	45.0(-)								
i	23	11	52.0									
April 5.	WIT: eP	05	48	57.0							42.0N 142.3E, H: 05 37 02.9 h 69 km. Mb 5.2. Hokkaido, Japan region.	
April 7.	DBN: eL	01	23								53.3S 159.0E, H: 00 03 08.5 h N. Ms 5.9: Macquarie Islands region.	
	F	02.4										
April 8.	DBN: eS	05	12	48							8.1N 38.8N, H: 04 55 04.9 h N. Mb 5.4. Ms 5.2. Central Mid-Atlantic Ridge.	
	eL	05	21.0									
	F	05	52									
April 8.	DBN: eL	07	06								42.6N 126.3W, H: 06 24 13.7 h 11 km. Mb 5.6. Off coast of Oregon.	
	F	07	16									
	WIT: eP	06	36	06								
April 8.	WIT: eP	09	44	50							29.6N 101.8E, H: 09 33 42.1 h 53 km. Mb 5.3. Szechwan Province, China.	
April 9.	DBN: eSS	04	31.0		17	15.0			6.0		42.2N 84.6E, H: 04 10 50.7 h N. Mb 5.9. Ms 5.3. Northern Sinkiang Prov., China.	
	eL	04	38									
	F	05	13									
	WIT: iP	04	19	53.1								+
	RSB: iP	04	20	03.5								+
	i	04	20	09.5								

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
April 9.	WIT: iPKP	20	59	18.8	+					18.8S 173.8W, H: 20 39 40.0 h N. Mb 5.1. Tonga Islands.	
	e	20	59	33.5							
	RSB: ePKP	20	59	24.0	+						
April 10.	DBN: iP	02	14	47	+	7	12.2			28.4N 52.8E, H: 02 06 53.2 h N. Mb 6.1. Ms 6.9. Southern Iran. 5054 killed.	
	iPP	02	16	32							
	ePPP	02	17	13							
	ePcS	02	20	22							
	iS	02	21	08							
	iSS	02	24	08							
	eL	02	28.5			25		137	6.9		
	F	06.2									
	WIT: eP	02	14	40.0	+						
	i	02	14	43.4							
	iPP	02	16	33.0							
	RSB: iP	02	14	41.5	+						
	i	02	14	56.0	-						
	e	02	16	11							
eL	02	30									
April 10.									STATION RAVENSBOCH (RSB) CLOSED DOWN		
April 11.	DBN: iP	02	31	09	+	8	10.4			1.0N 28.3W, H: 02 21 15.7 h N. Mb 6.0. Ms 6.4. Central Mid-Atlantic Ridge.	
	iPP	02	33	21							
	ePPP	02	34	44							
	iS	02	39	13							
	eSS	02	43	11							
	eSSS	02	45	44							
	eL	02	49			16		75	6.8		
	F	05.5									
	WIT: eP	02	31	15.5	+						
	i	02	31	17.5	-						
April 11.	DBN: eL	12	30							19.0N 80.7W, H: 11 56 56.3 h N. Mb 4.8. Cuba region.	
	F	12	57								
April 11.	WIT: eP	14	26	10						42.3N 142.9E, H: 14 14 15.6 h 60 km. Mb 5.3. Hokkaido, Japan region.	
April 12.	WIT: ePKP	10	19	30.5	-					19.3S 175.0W, H: 10 00 10.1 h 203 km. Mb 5.2. Tonga Islands.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
April 12.	WIT: eP	18	45	28						28.3N 53.1E, H: 18 37 40.8 h N. Mb 5.1. Southern Iran.	
April 12.	DBN: eS	23	22	08						28.4N 53.0E, H: 23 07 49.9 h N. Mb 5.0. Southern Iran.	
	eL	23	30.0								
	F	24	03								
	WIT: eP	23	15	39.0							
April 16.	DBN: F	10	35							47.7N 16.1E, 10 10 03.6 h 18 km. Mb 4.9. Austria. DBN: change of papers 10.13-10.18.	
	WIT: ePn	10	12	02.6							
	iP*	10	12	24.0							
	e(s*)	10	13	42							
	eSg	10	14	32							
	HEE: ePn	10	12	01							
	e	10	13	27							
	e	10	13	51							
	i	10	14	03							
April 16.	DBN: iH	11	09	08						47.7N 16.0E, H: 11 04 44.3 h 19 km. Mb 4.4. Austria.	
	F	11	15								
	WIT: eP*	11	07	04.5							
	HEE: e	11	07	51							
	e	11	08	27							
	e	11	08	38							
	i	11	08	43							
April 16.	DBN: eL	23.6								2.6S 119.9E, H: 22 35 45.4 h N. Mb 5.5. Celebes.	
	F	23.9									
April 17.	DBN: iP	11	02	24	+					24.2N 122.5E, H: 10 49 42.7 h 35 km. Mb 5.8. Ms 6.1. Taiwan region.	
	iPP	11	05	45							
	iS	11	12	55							
	iSP	11	14	00							
	eSS	11	18	44							
	eL	11	30			17			34	6.7	
	F	13	45								
	WIT: iP	11	02	17.7	+						
April 17.	DBN: eL	14	47							27.9N 142.8E, H: 14 02 38.7 h N. Mb 5.3. Bonin Islands region.	
	F	in next shock									
April 17.	DBN: eL	15	16							44.6N 129.5W, H: 14 38 56.9 h N. Mb 5.0. Ms 4.8. Off coast of Oregon.	
	F	16.1									

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
April 18.	DBN: eL F	00	08								44.7N 129.5W, H: 23 29 33.2 h N. Mb 4.6. Off coast of Oregon.
April 18.	WIT: ePKP i	02	08	23.5(+)							21.3S 170.3E, H: 01 48 57.4 h 118 km. Mb 5.2. Loyalty Islands region.
April 18.	DBN: eL F	06	01								36.4N 11.1W, H: 05 51 52.8 h N. Mb 4.7. North Atlantic Ocean.
April 18.	DBN: eL F	19	25								52.5S 17.9E, H: 18 27 27.3 h N. Mb 5.2. Ms 4.9. Southwest of Africa.
April 20.	DBN: ePP eL F WIT: iPKP	17	25	00							22.9S 175.1W, H: 17 01 37.0 h 37 km. Mb 5.3. Ms 5.8. Tonga Islands region.
April 21.	DBN: iP epP ePP ePPP eS esS eSS eL F WIT: eP i e	01	39	35	-						54.0N 166.9W, H: 01 28 09.5 h 103 km. Mb 5.8. Fox Islands, Aleutian Islands.
April 21.	DBN: eL F	03	47								No determination of epicenter.
April 21.	DBN: eL F	14	05								24.1N 122.5E, H: 13 20 41.2 h 37 km. Mb 5.1. Taiwan region.
April 21.	DBN: eL F WIT: ePKP	14	37								15.3S 173.7W, H: 13 25 21.2 h 125 km. Mb 5.6. Tonga Islands.
April 24.	DBN: eL F	00	53								17.5S 167.7E, H: 23 36 33.3 h 17 km. Mb 4.6. Ms 4.8. New Hebrides Islands.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
April 24.	DBN: ePP eSS eL F	01 02 02 04.1	42 00.0 26	35		22			3.8	6.1	31.4S 111.1W, H: 01 20 48.2 h N. Mb 5.8. Ms 6.1. Easter Island region.
April 24.	WIT: ePKP i epPKP	02 02 02	23 23 25	03.5 09.7 18	+						21.3S 179.3W, H: 02 04 25.0 h 615 km. Mb 5.5. Fiji Islands region.
April 24.	DBN: iP iPP ePPP iS ePS eSS eSSS eL F WIT: iP i iPP e eL	10 10 10 10 10 10 10 10 10 10 10 10 10	10 13 15 20 21 26 30.0 36 14.5 09 10 13 13 38	02 28 40 38 45 30 30 36 57.6 05.1 19.0 27.5	+	9 20	25			530	7.9 23.6N 121.6E, H: 09 57 21.7 h N. Mb 6.0. Ms 6.9. Taiwan. 4 killed.
April 24.	WIT: eP i	11 11	44 44	48 52.0	+						23.5N 121.5E, H: 11 32 10.1 h N. Mb 5.0. Taiwan.
April 24.	DBN: eL F	18 19	46 11								23.7N 121.7E, H: 17 58 31.5 h N. Mb 5.3. Taiwan.
April 25.	DBN: iP iPP ePPP iSKS iS iSP iPPS iSS eSSS eSKKS eL F WIT: iP i ePP	19 19 19 19 19 19 19 19 20 20 20 20 20 19 19 19	43 47 49 53 54 55 56 00 04 07 13 24.8 43 43 47	25 08 10 58 21 48 16 58 35 12 13 05.0	+	6 24	10.4			620	8.1 13.4N 120.3E, H: 19 30 09.3 h 50 km. Mb 6.2. Ms 7.2. Mindoro, Philippine Islands.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
April 26.	WIT: iPKP e	01 01	51 54	47.1 30.0	+						18.2S 173.0E, H: 01 33 18.4 h 593 km. Mb 5.1. Fiji Islands region.
April 26.	DBN: eL F	05 05	19 43								13.5N 120.5E, H: 04 30 19.5 h 72 km. Mb 5.1. Mindoro, Philippine Islands.
April 26.	DBN: eP eS eL F	06 06 06	35 38 40.0	52 32		13	4.9		4.8		39.5N 26.3E, H: 06 30 23.9 h 26 km. Mb 5.0. Turkey. in next shock
April 26.	DBN: eL F	07 08	07 15			16			3.0	5.8	13.5N 120.6E, H: 06 18 44.9 h N. Mb 5.2. Ms 5.2. Mindoro, Philippine Islands.
April 26.	WIT: iPKP	12	40	42.8	-						23.2S 179.1E, H: 12 21 55.4 h 567 km. Mb 5.0. South of Fiji Islands.
April 26.	DBN: eP eS eL F	16 16 16 16	04 07 09.5 25	15 54		13	4.7		4.8		39.5N 26.3E, H: 15 59 45.0 h 28 km. Mb 4.8. Turkey.
April 26.	DBN: eL F	18 18	24 51								13.4N 120.6E, H: 17 35 08.4 h 53 km. Mb 5.2. Mindoro, Philippine Islands.
April 26.	DBN: eL F	22 22	22 55								13.4N 120.6E, H: 21 34 53.9 h 44 km. Mb 4.9. Mindoro, Philippine Islands.
April 27.	DBN: eSKS eL F	01 02 03	53 18 10	28		20	3.6		5.8		13.5N 120.7E, H: 01 29 38.7 h 72 km. Mb 5.4. Mindoro, Philippine Islands.
April 27.	DBN: eL F	07 08.2	33								13.4N 120.4E, H: 06 44 29.7 h 56 km. Mb 5.2. Mindoro, Philippine Islands.
April 27.	WIT: iPKP	20	01	01.1	-						23.2S 179.1E, H: 19 42 14.5 h 574 km. Mb 5.2. South of Fiji Islands.
April 27.	DBN: eL F WIT: eP	20 20 19	07 31 33	30.0	+						24.1N 122.5E, H: 19 20 51.6 h 15 km. Mb 5.6. Taiwan region.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
April 28.	DBN: eL F	01	24								31.3N 84.9E, H: 00 52 56.8 h N. Mb 5.1. Tibet.
April 28.	DBN: eL F WIT: eP	12	13								17.0N 94.8E, H: 11 30 18.1 h N. Mb 5.4. Burma.
April 28.	DBN: iPKP epPKP ePP epPP ePPP iSKKS iPS eSPP eSS eSSS eL F WIT: ePKP i i i e e eSPP	23	50	28	-	26			36	7.0	5.1S 154.2E, H: 23 32 10.2 h 409 km. Mb 6.0. Solomon Islands.
April 29.	DBN: eL F WIT: eP	18	44.3								34.8N 24.6E, H: 18 29 38.3 h 47 km. Mb 5.1. Crete.
April 30.	DBN: eS eL F	15	39.5								13.5N 120.5E, H: 15 15 34.3 h 56 km. Mb 5.5. Mindoro, Philippine Islands.
May 1.	DBN: eL F	20	48								4.4S 103.1E, H: 19 45 57.5 h 90 km. Mb 5.4. Southern Sumatra.
May 2.	DBN: iP eS eL F	07	09	46	-						5.2N 100.3W, H: 06 56 23.4 h N. Mb 5.8. Ms 5.5. East Central Pacific Ocean.
May 3.	WIT: eP epP	05	00	50.8							51.4N 179.2W, H: 04 49 06.8 h 56 km. Mb 5.3. Andreanof Islands, Aleutian Islands.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms		
		h	m	s			Z	NS	EW				
1972													
May	3. DBN: eL F	09 09	04 18								44.4N 28.3W, H: 08 52 53.0 h N. Mb 4.6. North Atlantic Ridge.		
May	3. DBN: eL F	20 20	00 55								No determination of epicenter.		
May	4. DBN: eL F WIT: eP	04 05 04	35 06 03								33.5N 141.0E, H: 03 50 28.9 h 45 km. Mb 5.5. Off east coast of Honshu Japan.		
May	4. DBN: eL F	05 05	12 32								10.7S 113.7E, H: 04 11 35.0 h N. Mb 5.8. South of Java.		
May	4. DBN: iPKP iPP ePPP ePS eSPP eSS eSSS eL F WIT: ePKP i epPKP ePP	08 08 08 08 08 08 08 08 12.0	07 10 14 21 22 29 34.5 54	35 51 00 20 38 17 34.5	+				25	38	7.2	15.9S 167.5E, H: 07 48 17.3 h 45 km. Mb 6.1. Ms 6.8. New Hebrides Islands.	
May	4. DBN: iP iS eL F WIT: iP ipP HEE: eP ipP eS	21 21 21 23.9	44 48 50.5	48 44 23.9	+	5	16.8			14	125	6.4	35.1N 23.6E, H: 21 40 00.9 h 46 km. Mb 5.9. Ms 6.3. Crete.
May	5. DBN: eL F	00 01	28 23										
May	5. DBN: eL F WIT: iP e	11 11 10 10	03 46 28 28	46.6 52.5	-	20	4.6				5.8	23.0N 121.5E, H: 10 16 11.1 h 55 km. Mb 5.2. Taiwan.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
May	5. DBN: eL F	20	32								55.3S 29.2W, H: 19 38 33.4 h N. Mb 5.3. South Sandwich Islands region.
May	5. DBN: ePKP iPP ePKS eSKS eSKKS ePS eSS eSSS eL F WIT: ePKP ePP	23	35	27		30			24	6.8	4.2S 152.7E, H: 23 16 27.9 h 32 km. Mb 5.6. Ms 6.6. New Britain region.
May	6. DBN: eL F	05	54								No determination of epicenter.
May	7. DBN: ePP eL F	17	00	10							4.8S 153.8E, H: 16 39 41.8 h 103 km. Mb 5.5. New Ireland region.
May	7. DBN: ePKP ₁ ePP ePPP eSKKS eSS eSSS eL F WIT: ePKP ₂	22	26	27		20			5.3	6.4	53.7S 134.2W, H: 22 06 30.1 h N. Mb 5.4. Ms 6.3. South Pacific Cordillera.
May	8. DBN: eP eL F WIT: eP	09	25	13							41.6N 23.5E, H: 09 20 54.5 h 10 km. Mb 5.0. Greece-Albania border region.
May	8. DBN: ePKP eL F WIT: ePKP	16	34	58		20	1.8			5.8	19.4S 176.3W, H: 16 15 16.7 h 71 km. Mb 5.4. Fiji Islands region.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
May 9.	DBN: iPKP	12	39	00	+	4	3.3				17.8S 178.9W, H: 12 20 22.6 h 568 km. Mb 5.8. Fiji Islands region. WIT: No records.
May 9.	DBN: eL F	17 18	50.9 00			14		3.2		4.7	39.6N 26.3E, H: 17 40 25.1 h 37 km. Mb 4.7. Turkey.
May 10.	DBN: eL F	06 07	48 47								4.1S 150.2E, H: 05 48 22.0 h N. Mb 5.5. Ms 5.2. New Britain region.
May 10.	WIT: eP	17	43	27.5							2.8S 78.7W, H: 17 30 35.0 h 89 km. Mb 5.4. Ecuador.
May 11.	DBN: iP eS eL F WIT: iP ipP	00 01 01 02 00 00	56 07 22 10	57 20	+	30				4.3 5.8	42.8N 144.5E, H: 00 44 58.0 h 68 km. Mb 5.5. Hokkaido, Japan region.
May 11.	DBN: eL F	04 05	58 15								16.0S 167.7E, H: 03 48 50.7 h 61 km. Mb 5.2. New Hebrides Islands.
May 11.	DBN: eL F	19 20	56 11								ISC: 21.0N 120.2E, H: 19 08 48.1 h 0 km. Mb 4.5. Taiwan region.
May 11.	WIT: ePKP ₁ i ePKP ₂	21 21 21	37 37 37	37.0(-) 46.5 57.5							27.6S 179.1W, H: 21 18 29.6 h 387 km Mb 5.8. Kermadec Islands region.
May 12.	DBN: eP eS eSS eL F WIT: eP	01 01 01 02 02 01	33 44 50 00 50	52 32 16		24		4.1		5.8	24.6N 121.6E, H: 01 21 28.7 h 62 km. Mb 5.3. Taiwan.
May 12.	WIT: iPKP	04	52	46.5	-						ISC: 18.0S 176.9W, H: 04 33 12.8 h 0 km. Mb 4.9. Fiji region.
May 12.	DBN: eL F	18 18	02 41								17.3S 66.6W, H: 17 16 35.9 h 102 km. Mb 5.0. Bolivia.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
May 13.	DBN: eP eL F	14	07	37		14			2.3	4.7	53.4N 35.1W, H: 14 02 21.5 h N. Mb 4.8. North Atlantic Ocean.
May 13.	DBN: eL F	14	11								53.0N 35.3W, H: 13 58 50.6 h N. Mb 4.4. North Atlantic Ocean.
				in prec. shock							
May 13.	DBN: eL F	15	18								45.1N 28.1W, H: 15 06 38.2 h N. Mb 4.8. North Atlantic Ridge.
May 13.	DBN: eL F	16	15								32.7S 71.6W, H: 15 19 35.8 h 38 km. Mb 5.7. Ms 5.3. Near coast of central Chile.
May 13.	DBN: iP eS eL F WIT: eP	16	45	27	(+)	18			10.2	5.3	45.0N 28.2W, H: 16 40 22.0 h N. Mb 5.0. Ms 4.8. North Atlantic Ridge.
				38							
				51.0							
				00							
				35							
May 14.	DBN: eL F WIT: eP	12	45								40.3N 143.4E, H: 12 01 16.1 h 12 km. Mb 5.3. Ms 5.2. Off east coast of Honshu, Japan.
				29							
				27.0	+						
May 14.	DBN: eL F WIT: eP	20	20								51.2N 179.2W, H: 19 34 24.2 h 46 km. Mb 5.1. Ms 5.0. Andreanof Islands. Aleutian Islands.
				47							
				11							
May 15.	WIT: iP i epPKP i	09	51	44.4	-						23.6S 179.9E, H: 09 32 54.6 h 553 km. Mb 5.6. South of Fiji Islands.
				53.5							
				45.5							
				55.0							
May 15.	DBN: eL F	11	07								29.7S 69.5W, H: 10 09 40.0 h 39 km. Mb 5.6. Chile-Argentina border region.
				23							
May 15.	DBN: eL F	12	41								4.0N 31.6W, H: 12 12 43.3 h N. Mb 4.7. Central Mid-Atlantic Ridge.
				51							

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
May 17.	DBN: eP ePKP eSKS eL F	05 41 18 05 45 22 05 51 44 06 14 07.4				18		8.5		6.2	13.4N 119.9E, H: 05 27 51.6 h 37 km. Mb 5.7. Ms 5.9. Philippine Islands region.
May 17.	DBN: eL F	10 34 10 49									33.5N 71.5E, H: 10 06 05.8 h N. Mb 5.3. West Pakistan.
May 18.	DBN: eL F WIT: eP	03 27 03 49 02 54 32.0				18		1.7		5.3	38.6N 142.5E, H: 02 42 17.7 h 39 km. Mb 5.2. Near east coast of Honshu, Japan.
May 18.	WIT: iP* ePg	08 12 24.6 08 12 36.5									48.3N 9.0E, H: 08 11 02.0 h N. Germany.
May 19.	DBN: eL F	01 21 01 48				14			1.9	4.4	35.2N 9.1E, H: 01 13 43.5 h 50 km. Mb 4.4. Tunisia.
May 19.	WIT: i	09 29 11.6									No determination of epicenter.
May 19.	DBN: eL F	10 29 11 09									22.3N 144.2E, H: 09 55 24.2 h 70 km. Mb 5.2. Volcano Islands region.
May 20.	DBN: ePKP ePP eSS eL F WIT: ePKP	02 54 14 02 57 16 03 16 00 03.7 05.2 02 54 12									15.6S 167.1E, H: 02 34 45.6 h 33 km. Mb 5.2. Ms 5.5. New Hebrides Islands.
May 20.	DBN: eP eL F WIT: eP	21 37 42 22.1 22.7 21 37 39.5 +									53.5N 160.0W, H: 21 26 07.2 h N. Mb 5.2. South of Alaska.
May 21.	DBN: eL F	04 39 04 50									16.0S 73.9W, H: 03 50 30.9 h 85 km. Mb 5.4. Near coast of Peru.
May 21.	DBN: eL F WIT: ePKP ₁	07 13 08 14 06 21 49									27.1S 174.9E, H: 06 01 54.4 h N. Mb 5.5. Ms 4.9. North of New Zealand.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
May	22.	DBN: iP	06	17	10	+					16.6N 122.3E, H: 06 04 00.1
		ePP	06	20	56						h 34 km. Mb 5.7. Ms 6.9.
		iS	06	28	03						Luzon, Philippine Islands.
		iPS	06	29	35						
		ePPS	06	30	10						
		eSS	06	34	36						
		eSSS	06	38	10						
		eL	06	45					18	136	7.3
		F	09.8								
		WIT: eP	06	17	05.5						
		ePP	06	20	39.0						
May	22.	DBN: iPKP	21	05	10	-	8	118			17.7S 175.2W, H: 20 45 57.3
		ipPKP	21	06	09						h 227 km. Mb 6.2.
		iPP	21	08	27						Tonga Islands.
		ipPP	21	09	32						
		eSKS	21	11	48						
		esSKS	21	13	34						
		eSS	21	27							
		F	01.0								
		WIT: iPKP	21	05	08.3	-					
		i	21	05	31.9	-					
		ipPKP	21	06	04.0						
		i	21	06	38.5						
		HEE: iPKP	21	05	18	-					
May	23.	DBN: eL	10	19							37.6N 31.9W, H: 10 04 44.1
		F	10	34							h N. Mb 5.0.
											Azores Islands region.
May	23.	DBN: eL	11	14							BCIS: 39.0N 17.1E, H: 11 04
		F	11	17							24. Italy.
May	24.	DBN: ipPKP	11	46	15	+					22.3S 171.2E, H: 11 26 01.1
		i	11	46	39						h 38 km. Mb 5.6. Ms 5.9.
		eL	12	39			20			2.8	6.0
		F	13	46							Loyalty Islands region.
		WIT: iPKP	11	45	52.2(-)						
May	26.	WIT: e	02	33	26.5	+					No determination of epicenter.
May	27.	WIT: iP	04	17	18.7	-					55.0N 156.3E, H: 04 06 50.5
		ipP	04	18	50.6						h 409 km. Mb 5.7.
											Kamchatka.
May	28.	WIT: iPKP	01	13	33.7						22.0S 179.7W, H: 00 54 52.0
											h 610 km. Mb 5.0.
											South of Fiji Islands.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
May 28.	DBN: iPP iPPP eSKS iSP eSS eSSS eL F	02 02 02 02 02 02 02 02	14 17 20 24 30.3 34.3 48 05.0	40 03 45 08		25		12.4	6.5	d.b.m. 11.0S 117.1E H: 01 55 21.9, h N. Mb 6.3. Ms 6.2. South of Sumbawa Islands.	
May 28.	WIT: iPKP	18	31	06.4	-					18.0S 179.4W, H: 18 12 36.2 h 621 km. Mb 5.1. Fiji Islands region.	
May 30.	DBN: eL F	20 20	06 17							56.9N 33.8W, H: 19 54 28.9 h N. Mb 4.2. North Atlantic Ocean.	
June 1.	WIT: eP	03	20	15						51.0N 169.6W, H: 03 08 25.1 h N. Mb 5.0. Fox Islands, Aleutian Islands.	
June 1.	WIT: iPKP	06	43	29.6	-					21.1S 174.4W, H: 06 23 44.2 h N. Mb 5.0. Tonga Islands.	
June 1.	DBN: eL F	07 07	21 33							16.6N 122.4E, H: 06 31 15.5 h 45 km. Mb 5.0. Luzon, Philippine Islands.	
June 2.	DBN: eL F	01 01	06 30							No determination of epicenter.	
June 2.	WIT: eP	23	03	32.8	-					3.6N 96.7E, H: 22 50 47.4 h N. Mb 5.5. Northern Sumatra.	
June 3.	DBN: eL F	03 03	01 19							23.5N 125.5E, H: 02 16 51.1 h 33 km. Mb 5.2. South- western Ryukyu Islands.	
June 3.	DBN: eS eL F	18 19 19	55 00 28	26						27.1N 44.6W, H: 18 40 28.8 h N. Mb 5.2. Ms 5.1. North Atlantic Ridge.	
June 3.	DBN: eL F	19.6 20	54							12.5S 166.1E, H: 18 46 31.0 h 54 km. Mb 4.0. Santa Cruz Islands.	

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
June	6.	DBN: eL F WIT: eP	03 03 02	00 25 31							51.6N 178.3W, H: 02 19 41.6 h 51 km. Mb 5.3. Andreanof Islands Aleutian Islands.
June	6.	DBN: eP ePP eS eSS eL F WIT: eP i i	05 05 05 05 05 06 05 05 05	33 34 38 41 43.3 54 33 33 33		17			6.0	5.4	32.9N 39.9W, H: 05 25 50.2 h N. Mb 5.5. Ms 5.7. North Atlantic Ridge.
June	6.	DBN: eL F	18 18	17 36							26.9N 53.4E, H: 17 54 43.3 h 54 km. Mb 4.9. Southern Iran.
June	6.	DBN: eL F	19 19	06 37							No determination of epicenter.
June	7.	WIT: iP	01	36	00.6	+					49.8N 78.2E, H: 01 27 57.1 h 0 km. Mb 5.5. Eastern Kazakh SSR.
June	7.	DBN: eL F	06 07	13 00		20		1.8		5.5	12.5N 123.7E, H: 05 24 19.6 h 13 km. Mb 5.1. Ms 4.9. Luzon Philippine Islands.
June	7.	DBN: eL F	12.9 13		58						2.5N 128.2E, H: 12 01 17.8 h 152 km. Mb 5.7. Halmahera.
June	7.	WIT: iP	16	51	37.6	+					55.0N 157.8E, H: 16 40 54.2 h 281 km. Mb 4.7. Kamchatka.
June	7.	DBN: eL F	23 24	51 19							14.5N 93.1W, H: 23 09 04.4 h 54 km. Mb 4.6. Near coast of Chiapas, Mexico.
June	8.	DBN: eL F	03 04	53 16							10.7S 79.0W, H: 03 02 37.5 h 29 km. Mb 5.0. Off coast of Peru.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
June 8.	DBN: eL F WIT: ep	10	00 41			19		8.7		6.2	21.1N 120.2E, H: 09 14 08.3 h N. Mb 5.4. Ms 5.2. Taiwan region.
June 8.	WIT: ePKP	16	35	04							19.4S 177.1W, H: 16 15 56.1 h 290 km. Mb 5.3. Fiji Islands region.
June 8.	WIT: iP	18	10	46.0	-						22.6S 66.2W, H: 17 57 38.6 h 259 km. Mb 5.4. Jujuy Province Argentina.
June 8.	DBN: eP iPKP iPP ePPP eSKS eS iSP eSS eSSS eL F WIT: iP e ePKP	19	08 12 12 15 18.5 20 21 27.7 31.7 44	01 11 37 03	-		20	43		7.0	30.5S 71.8W, H: 18 53 41.7 h 39 km. Mb 6.2. Ms 6.6. Near coast of central Chile.
June 9.	DBN: ePKP eSS eL F WIT: ePKP i e	00	39	52	-						21.1S 174.0W, H: 00 19 56.8 h N. Mb 5.5. Ms 5.7. Tonga Islands.
June 9.	DBN: eS F WIT: eP	07	51	36							34.8N 26.5E, H: 07 42 19.9 h N. Mb 4.9. Crete. DBN: change of papers. 07.52 - 08.03 G.M.T.
June 9.	DBN: eL F	10	41								8.8S 108.3W, H: 09 45 08.8 h N. Mb 4.9. Ms 4.6. Northern Easter Islands. Cordillera.
June 10.	DBN: eL F WIT: eP	04	02 34								61.5N 140.2W, H: 03 31 24.1 h N. Mb 5.3. Southern Yukon Territory, Canada.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
June 11.	WIT: ePKP	14	49	35.5						20.9S 175.4W, H: 14 29 56.8 h 75 km. Mb 5.6. Tonga Islands.	
	epPKP	14	49	55.0							
June 11.	DBN: eP	16	54	28	-	5	8.0			3.9N 124.3E, H: 16 41 00.9 h 325 km. Mb 5.8. Celebes Sea.	
	i	16	54	34	-						
	ipP	16	55	48							
	isP	16	56	40							
	iPP	16	58	53							
	ipPP	17	00	06							
	iSKS	17	04	44							
	iS	17	05	56							
	isS	17	08	07							
	iSS	17	13	18							
	esSS	17	15	00							
	eSSS	17	17	32							
	eL	17	28			23	260	7.7			
	F	22.0									
	WIT: eP	16	54	26.5							
	i	16	54	30.7	+						
	i	16	54	34.7	+						
i	16	57	50.2								
ePP	16	58	45.0								
iS	17	05	55.5								
isS	17	08	12.8								
HEE: eP	16	54	36								
i	16	59	09								
June 12.	WIT: iPKP	01	04	40.9(+)					12.4S 167.0E, H: 00 45 45.8 h 245 km. Mb 5.5. Santa Cruz Islands.		
	i	01	04	42.8	-						
June 12.	DBN: eP	10	08	43	-				5.2N 78.2W, H: 09 56 22.6 h 27 km. Mb 5.6. South of Panama.		
	eS	10	19	08							
	eL	10	34								
	F	11	09								
	WIT: eP	10	08	46.0	-						
June 12.	DBN: eS	11	43	36					16.6N 122.4E, H: 11 19 44.4 h N. Mb 5.2. Luzon, Philippine Islands.		
	eSP	11	45	04							
	eL	12	09								
	F	12	37								
June 12.	DBN: iP	13	40	53	+				33.1N 46.3E, H: 13 34 00.7 h N. Mb 5.4. Ms 5.0. Iran-Iraq border region.		
	eS	13	46	25							
	eL	13	50								
	F	14	46			12	3.0	5.0			
	WIT: eP	13	40	48.5							
	e	13	41	11							

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms		
		h	m	s			Z	NS	EW				
June 12.	DBN: iP	19	59	15	+	6	1.6			53.3N 166.8W, H: 19 47 37.2 h 44 km. Mb 5.8. Ms 5.8. Fox Islands, Aleutian Islands.			
	ePP	20	01	56									
	ePPP	20	03	38									
	iS	20	08	48									
	eSPP	20	09	42									
	eL	20	20								20	6.4	5.9
	F	23	02										
	WIT: eP	19	59	10.7									
i	19	59	39.0										
June 13.	DBN: eP	01	02	28	+					33.1N 46.3E, H: 00 55 37.3 h 27 km. Mb 5.1. Iran-Iraq border region.			
	eS	01	08	04									
	eL	01	11										
	F	01	45										
	WIT: eP	01	02	25.0									
	e	01	02	28.5									
June 13.	DBN: eL	11	16			13	2.0		5.3	54.9N 126.4E, H: 10 45 05.3 h N. Mb 4.8. Ms 5.4. Eastern Russia.			
	F	12	06										
June 13.	DBN: ePKP	17	18	27		19	1.7		5.8	29.7S 177.3W, H: 16 58 36.1 h 46 km. Mb 5.5. Ms 5.5. Kermadec Islands.			
	eL	18	17										
	F	19	24										
	WIT: ePKP	17	18	27.0									
	e	17	18	57.0									
June 13.	DBN: eL	20	31							14.4N 92.8W, H: 19 44 35.3 h 127 km. Mb 4.4. Near coast of Chiapas. Mexico.			
	F	20	47										
June 14.	WIT: eP	01	03	06						60.5N 153.4W, H: 00 52 35.7 h 152 km. Mb 5.2. Southern Alaska.			
June 14.	DBN: eP	04	41	17						33.0N 46.1E, H: 04 34 28.1 h N. Mb 5.3. Iran-Iraq border region.			
	eL	04	52										
	F	05	10										
	WIT: eP	04	41	14.0							+		
June 14.	DBN: eP	18	58	24	(-)					43.7N 13.4E, H: 18 55 53.3 h 14 km. Mb 4.9. Central Italy.			
	eL	19	01.5										
	F	19	32										
	WIT: eP	18	58.5										

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
June 14.	DBN: eL F	21	07.0								43.7N 13.5E, H: 21 00 59.6 h 6 km. Mb 4.7. Central Italy.
June 15.	DBN: iP eS eL F WIT: eP e	00 00 00 01 00 00	37 41 42.5 08 37 38	38 04 09.5	+	14		4.8	4.8		38.3N 22.2E, H: 00 33 23.6 h 26 km. Mb 4.9. Ms 4.8. Greece.
June 15.	DBN: iP eL F WIT: ePKP	01 02.4 03.5 01	33 18	17	+						17.7S 174.7W, H: 01 13 41.7 h N. Mb 5.2. Ms 4.7. Tonga Islands.
June 15.	DBN: eL F	05 06.3	08								29.8S 177.0W, H: 03 50 22.8 h N. Mb 4.1. Ms 5.4. Kermadec Islands.
June 15.	DBN: eL F WIT: iP	16 16 15	03 27 33	11.9	+						42.4N 143.0E, H: 15 21 20.3 h 76 km. Mb 5.5. Hokkaido, Japan region.
June 15.	DBN: eL F	23 24	45 07								5.4N 126.3E, H: 22 52 34.7 h 101 km. Mb 4.9. Mindanao, Philippine Islands.
June 16.	WIT: ePKP	13	59	08.5	+						17.7S 178.6W, H: 13 40 09.3 h 570 km. Mb 4.7. Fiji Islands region.
June 17.	DBN: eL F WIT: ePKP e	02 02 01 01	02 14 08 08	28.5 40.5	(-)						20.4S 169.2E, H: 00 48 59.1 h 64 km. Mb 4.7. New Hebrides Islands.
June 17.	DBN: eL F	06 06	15 22								No determination of epicenter.
June 17.	WIT: eP eS	09 09	04 05	37.5 58.0	-						48.3N 14.5E, H: 09 02 47.5 h N. Mb 4.6. Austria.
June 18.	DBN: eL F	01 02	59 42								37.2S 95.2W, H: 01 00 43.9 h N. Mb 5.6. Ms 5.5. Southern Pacific Ocean.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
June 19.	DBN: eL F WIT: eP	01 02 01	40 12 14								52.2N 175.0E, H: 01 02 53.9 h 53 km. Mb 5.3. Rat Islands, Aleutian Islands.
June 19.	DBN: eL F	02 02	22 51								54.4N 168.6E, H: 01 43 48.0 h N. Mb 5.0. Komandorsky Islands region.
June 19.	DBN: iP iS eL F WIT: iP	06 06 06 06 06	05 10 11.6 39	49 05 + + 58.3		16		7.5	5.2		57.3N 33.4W, H: 06 00 50.4 h N. Mb 5.0. Ms 5.3. North Atlantic Ocean.
June 19.	DBN: eP eL F WIT: eP	12 12 12 12	19 25.0 34	24 + 35.5							57.3N 33.4W, H: 12 14 26.2 h N. Mb 5.1. North Atlantic Ocean.
June 19.	DBN: eL F	13 13	05 22								13.4S 166.5E, H: 11 49 48.7 h 35 km. Mb 5.1. Ms 5.3. New Hebrides Islands.
June 19.	WIT: eP	15	24	57.0(-)							49.9N 173.6W, H: 15 12 50.8 h N. Mb 5.4. Ms 4.7. Aleutian Islands region.
June 20.	DBN: ePKP ₂ eSS eL F	02 02 02 03	02 27.3 58 59	27							60.6S 154.1E, H: 01 41 53.0 h N. Mb 5.4. Ms 5.5. South of Macquarie Island.
June 20.	DBN: eL F	19 19	19 41								2.6N 125.8E, H: 18 25 43.1 h 84 km. Mb 5.3. Talaud Islands.
June 21.	WIT: iP KP	04	59	03.0 -							18.0S 174.7W, H: 04 39 39.2 h 132 km. Mb 5.2. Tonga Islands.
June 21.	DBN: eL F WIT: eP	16 16 15	13 51 42	15.0		19		8.7	6 1		32.0N 131.8E, H: 15 29 50.7 h 41 km. Mb 5.4. Ms 5.3. Kyushu, Japan.
June 22.	DBN: eL F	06 06	06.0 12								47.0N 27.6W, H: 05 54 19.2 h N. Mb 4.1. North Atlantic Ridge.
June 22.	DBN: eL F	06 07	53 09								31.8N 131.8E, H: 06 08 54.3 h 49 km. Mb 4.7. Kyushu, Japan.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
June 24.	DBN: eL	07	24.2								43.7N 16.9E, H: 07 17 55.5
	F	07	27								h N. Mb 5.3.
	WIT: eP	07	20	46.5(-)							Yugoslavia.
June 24.	DBN: iP	15	37	55	-						36.2N 69.7E, H: 15 29 22.2
	ipP	15	38	01	-						h 47 km. Mb 6.0. Ms 6.1.
	iPP	15	39	43							Hindu Kush region.
	ipPP	15	39	53							11 killed.
	iS	15	44	45							
	iSS	15	48	16							
	eL	15	52.0			16			73	6.7	
	F	15	18.2								
	WIT: iP	15	37	45.5	+						
	epP	15	37	52.0							
June 25.	DBN: eL	00	13								1.5N 127.5E, H: 23 20 03.4
	F	00	59								h 200 km. Mb 5.6. Halmahera.
June 25.	DBN: eL	08	19								36.3N 69.6E, H: 07 55 45.3
	F	08	32								h 46 km. Mb 4.7. Hindu Kush region.
June 26.	DBN: eL	08	54								21.1N 120.3E, H: 08 08 24.8
	F	09	14								h N. Mb 5.0.
	WIT: eP	08	21	08.5							Taiwan region.
June 26.	DBN: iP	10	17	13	-						51.9N 156.0E, H: 10 05 59.3
	eL	10	43								h 189 km. Mb 5.6.
	F	11.1									Kamchatka.
	WIT: iP	10	17	07.9	-						
June 26.	DBN: eL	16	29								4.7N 32.6W, H: 16 04 07.7
	F	16	57								h N. Mb 5.2.
	WIT: eP	16	13	58							Central Mid-Atlantic Ridge.
June 26.	DBN: eL	17	00								4.6N 32.6W, H: 16 31 08.6
	F	17	14								h N. Mb 5.1. Central Mid-Atlantic Ridge.
June 27.	DBN: eL	07	08								29.7N 70.3E, H: 06 39 44.4
	F	07.4									h 12 km. Mb 5.5.
	WIT: eP	06	48	49.5							West Pakistan.
June 27.	WIT: eP	10	58	02.0							29.7N 70.3E, H: 10 48 55.6
											h 8 km. Mb 5.4. West Pakistan.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
June 27.	DBN: eL F	16	27								36.3N 69.5E, H: 15 59 35.0 h 53 km. Mb 5.1. Hindu Kush region.
June 28.	WIT: eP	02	02	58.0	-						37.4N 141.3E, H: 01 50 43.9 h 70 km. Mb 5.4. Near east coast of Honshu, Japan.
June 28.	DBN: iP ePP eS eL F WIT: eP	09 09 10 10 11 09	56 57 01.4 04.3 24 56	08 21	-	5	1.5				27.6N 33.8E, H: 09 49 34.9 h 15 km. Mb 5.6. Ms 5.5. United Arab. Republic.
June 28.	DBN: eL F	21	08								49.2S 30.7E, H: 20 14 20.2 h N. Mb 5.1. South of Africa.
June 29.	DBN: eL F	03	58								38.9N 71.4E, H: 03 32 11.2 h 53 km. Mb 4.9. Afghanistan - USSR border region.
June 29.	DBN: eL F	04	37								11.4N 125.7E, H: 03 44 10.0 h 67 km. Mb 5.1. Samar, Philippine Islands.
June 29.	DBN: eL F	17	34								9.9S 160.1E, H: 16 22 07.5 h 40 km. Mb 5.5. Solomon Islands.
June 30.	WIT: iP KP	12	58	32.8	-						17.9S 178.7W, H: 12 40 00.3 h 600 km. Mb 5.3. Fiji Islands region.
June 30.	DBN: eL F	14	24								24.4N 124.8E, H: 13 36 06.5 h 79 km. Mb 4.7. Southwestern Ryukyu Islands.
June 30.	DBN: eL F	19	43			19	1.7		5.4		24.3N 121.1E, H: 18 57 43.3 h N. Mb 4.9. Taiwan.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July	2.	DBN: iP eS eSS eL F WIT: eP	13 13 13 13 13 13	03 09 12 16 48 03	39 46 40 37.5	+					30.1N 50.8E, H: 12 56 06.7 h 31 km. Mb 5.4. Ms 5.3. Iran.
July	3.	DBN: eL F	22 23	56 24							45.1S 79.6W, H: 21 57 35.9 h N. Mb 4.8. Ms 5.0. Off coast of Southern Chile.
July	4.	DBN: eL F WIT: iP	01 02 01	46 11 16		20		4.3		5.8	38.5N 142.0E, H: 01 04 35.1 h 52 km. Mb 5.3. Near east coast of Honshu, Japan.
July	4.	DBN: iP iPP eS iSP eL F WIT: eP	10 10 10 10 11.1 12.0 10	29 33 40 42 29	48 51 16 53 44	+					9.4N 122.5E, H: 10 16 12.3 h 58 km. Mb 5.5. Negros, Philippine Islands.
July	4.	DBN: eL F	16 17	45 17							9.8S 159.4E, H: 15 32 25.4 h 63 km. Mb 5.0. Solomon Islands.
July	5.	DBN: eL F	01 01	35 52							44.6N 81.1E, H: 01 09 52.9 h N. Mb 4.6. Northern Sinkiang Province, China.
July	5.	DBN: iP i ePP ePPP eS eSS eL F WIT: eP e i	10 10 10 10 10 10 10 12 10 10 10	28 28 30 32 37 41.8 47 40 27 28 28	01 26 40 29 18 55.5 04.0 06.5	-	6	2.1			49.5N 127.2W, H: 10 16 38.4 h 27 km. Mb 5.8. Ms 5.7. Vancouver Island region.
July	5.	DBN: eL F	12 13.5	43							No determination of epicenter.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July 5.	DBN: eL F	18	18.0								36.9N 21.5E, H: 18 04 54.1 h 17 km. Mb 4.7. Southern Greece.
July 5.	DBN: eL F	21	14								15.7S 75.2W, H: 20 02 28.6 h N. Mb 5.1. Near coast of Peru.
July 7.	DBN: eL F	12	44								20.5N 98.1E, H: 12 04 11.6 h 27 km. Mb 5.0. Ms 5.5. Burma.
July 7.	DBN: eL F	13	29								11.9N 126.2E, H: 12 36 14.1 h N. Mb 5.4. Philippine Islands region.
July 8.	WIT: iP epP	06	57	46.5	-						36.3N 71.4E, H: 06 49 22.8 h 121 km. Mb 5.6. Afghanistan-USSR border region.
July 8.	DBN: eP eS eL F WIT: iP ipP	12	23	25							16.3N 96.9W, H: 12 10 54.7 h 62 km. Mb 5.6. Oaxaca, Mexico.
July 9.	WIT: eP	14	05	14.5	-						53.1N 154.4E, H: 13 54 35.3 h 390 km. Mb 5.2. Sea of Okhotsk.
July 10.	DBN: eL F	00	10								24.5N 46.3W, H: 23 47 44.5 h N. Mb 4.4. North Atlantic Ridge.
July 10.	WIT: ePKP	06	49	51.5							22.8S 176.2W, H: 06 30 03.0 h N. Mb 5.1. South of Fiji Islands.
July 11.	DBN: eL F	06	01								10.7N 141.3E, H: 05 05 00.2 h 31 km. Mb 5.1. West of Caroline Islands.
July 11.	WIT: ePKP	16	05	10							6.0S 153.0E, H: 15 46 12.0 h 50 km. Mb 5.5. New Britain region.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July 12.	DBN: eL F	19	52.4								37.3N 21.9E, H: 19 41 48.2 h 92 km. Mb 4.1. Southern Greece.
July 12.	WIT: ePKP	20	24	01.5							16.8S 179.1W, H: 20 05 23.7 h 509 km. Mb 4.6. Fiji Islands region.
July 13.	DBN: eP eSKS eL F	02	13	06							28.3S 63.1E, H: 01 59 29.4 h N. Mb 5.3. Ms 4.7. Atlantic-Indian Rise.
July 14.	DBN: eL F	02	58								10.5S 113.9E, H: 02 02 17.6 h N. Mb 5.4. Ms 4.9. South of Java.
July 15.	DBN: eL F WIT: eP	03	03								24.2N 125.1E, H: 02 15 41.9 h 29 km. Mb 5.1. South-western Ryukyu Islands.
July 16.	WIT: iPKP e epPKP	00	47	55.5	-						20.9S 178.7W, H: 00 29 16.6 h 600 km. Mb 5.4. Fiji Islands region.
July 16.	WIT: eP	02	52	54.5							38.3N 43.3E, H: 02 46 50.7 h 40 km. Mb 4.9. Turkey.
July 16.	DBN: eL F WIT: eP	02	54			16	2.5		5.4		32.5N 95.9E, H: 02 20 23.6 h N. Mb 5.2. Tibet.
July 16.	DBN: eL F WIT: ePKP	05	45								34.9S 179.9E, H: 04 21 40.3 h 51 km. Mb 5.6. South of Kermadec Islands.
July 16.	DBN: eP eL F	17	22	32							3.0S 101.0E, H: 17 09 05.6 h 28 km. Mb 5.6. Ms 5.8. Southern Sumatra.
July 16.	WIT: ePKP	18	28	46.5(+)							21.2S 175.7W, H: 18 09 00.6 h N. Mb 5.3. Ms 5.7. Tonga Islands.
July 17.	DBN: eL F	04	53								14.4S 76.2W, H: 04 02 57.2 h 34 km. Mb 5.0. Near coast of Peru.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July 17.	DBN: eL F	09	09	09.7							55.0N 159.6E, H: 08 28 52.0 h N. Mb 5.3. Ms 4.6. Kamchatka.
July 18.	DBN: eL F	00	48	01 24							8.6N 103.1W, H: 00 01 55.1 h N. Mb 4.5. Off coast of Mexico.
July 18.	DBN: eL F	21	53	22 13							14.4S 76.3W, H: 21 05 00.8 h 13 km. Mb 5.1. Ms 4.4. Near coast of Peru.
July 18.	DBN: eL F WIT: eP epP	22	49	23 07 22 18 22 18							29.0 44.0 42.6N 144.6E, H: 22 06 34.2 h 66 km. Mb 5.2. Hokkaido, Japan region.
July 19.	DBN: eL F	16	33	16 56							No determination of epicenter.
July 20.	DBN: eL F	20.4		20 50							3.4S 146.3E, H: 19 27 40.3 h N. Mb 5.1. Bismarck Sea.
July 21.	DBN: eL F	01	50	02 56							ISC: 50.1S 114.0W, H: 00 41 37.8, h 0 km. Mb 4.8. Easter Island Cordillera.
July 21.	WIT: ePKP epPKP	08	56	08 57							47.5 20.0 21.9S 176.0W, H: 08 37 11.7 h 118 km. Mb 5.5. Fiji Islands region.
July 22.	DBN: eSS eL F	03	52.5	04 10 05.2		18		1.7		5.6	60.7S 19.4W, H: 03 16 56.1 h N. Mb 5.2. Ms 5.9. South-western Atlantic Ocean.
July 22.	DBN: eL F WIT: eP	05	23	06.0 05 15							26.5 44.9N 36.9E, H: 05 10 39.5 h N. Mb 4.6. Crimea region.
July 22.	DBN: eL F	07	06	08.1							6.2S 149.9E, H: 06 03 01.8 h 52 km. Mb 4.9. New Britain region.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
July 22.	DBN: eP	16	51	36							31.4N 91.5E, H: 16 41 04.0
	ePP	16	54	05							h N. Mb 5.5. Ms 5.8.
	eS	17	00	13							Tibet.
	eScS	17	01	45							
	eSS	17	04.4								
	eL	17	12			15		10.4		6.0	
	F	18	30								
	WIT: eP	16	51	31.5							
	e	16	51	42							
	e	16	52	07.5							
July 23.	DBN: eL	11	13								21.7N 145.7E, H: 10 23 40.2
	F	12	15								h 52 km. Mb 4.9. Mariana Islands region.
July 23.	DBN: iP	19	24	26	-	6	1.9				50.1N 129.3W, H: 19 13 09.0
	iPcP	19	24	43							h N. Mb 5.9. Ms 6.4.
	iPP	19	27	04							Vancouver Island region.
	iPPP	19	28	51							
	iS	19	33	48							
	iPPS	19	34	33							
	eSS	19	38	08							
	eL	19	46			19		59		6.8	
	F	in next shock									
	WIT: eP	19	24	25.5							
July 23.	DBN: eL	21	50								50.1N 129.3W, H: 20 17 32.9
	F	23.6									h N. Mb 4.8. Vancouver Island region.
July 24.	DBN: eP	11	02	56							10.8N 65.6W, H: 10 51 42.9
	eS	11	12.2								h N. Mb 4.9. Ms 5.0.
	eSS	11	16.6								Near coast of Venezuela.
	eL	11	25								
	F	12	02								
July 25.	DBN: eP	02	00	15							38.7N 21.4E, H: 01 56 07.3
	eS	02	03.6								h 45 km. Mb 4.5.
	eL	02	06								Greece.
	F	02	14								
July 25.	DBN: ePKP	09	39	54	-						21.5S 176.4W, H: 09 20 28.3
	e	09	40	41							h 180 km. Mb 5.4.
	F	11	57								Fiji Islands region.
	WIT: ePKP	09	39	51.5							
	i	09	39	55.5	-						
	i	09	39	59.8							
	epPKP	09	40	47.5							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July 27.	DBN: eL F WIT: eP i	01 01 00 00	04 25 32 32	35 43.5						50.0N 159.1E, H: 00 20 54.6 h N. Mb 5.1. Ms 4.5. Kuril Islands region.	
July 27.	DBN: eL F	17 17	28 49							25.4N 130.5E, H: 16 41 30.2 h N. Mb 5.1. Ryukyu Islands region.	
July 28.	DBN: eL F	07 08	50 01							24.2N 122.5E, H: 07 03 10.3 h 65 km. Mb 5.1. Taiwan region.	
July 28.	DBN: eL F	09 09	27 51							52.6N 173.2E, H: 08 49 03.1 h 46 km. Mb 5.3. Ms 4.7. Near Islands, Aleutian Islands.	
July 29.	DBN: ePP epPP eSKS eL F WIT: ePKP	05 05 05 05 06 05	22 23 28 57 53	50 27 50						0.1N 123.5E, H: 05 04 22.7 h 161 km. Mb 5.8. Northern Celebes.	
July 29.	DBN: eL F	12 12	04 35							10.7S 114.0E, H: 10 59 35.1 h N. Mb 5.1. South of Bali Island.	
July 29.	DBN: eL F	14 14	45 56							No determination of epicenter.	
July 29.	WIT: eP	16	15	21						1.5S 77.9W, H: 16 02 47.5 h 171 km. Mb 4.7. Ecuador.	
July 29.	DBN: eSS eL F	23 23 24.9	11.8 32		20			1.8	5.7	3.3S 146.5E, H: 22 34 33.3 h N. Mb 4.8. Ms 5.3. Bismarck Sea.	
July 30.	DBN: eL F WIT: iP	03 04 03	40 20 12	46.5	-					49.2N 156.2E, H: 03 01 06.6 h 45 km. Mb 5.1. Ms 4.7. Kuril Islands.	
July 30.	WIT: eP	05	01	09.0	-					51.8N 176.5E, H: 04 49 27.5 h 46 km. Mb 5.1. Ms 4.0. Rat Islands, Aleutian Islands.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July 30.	DBN: eL F	16	48								21.2N 121.3E, H: 16 00 02.8 h N. Mb 4.9. Taiwan region.
July 30.	DBN: ePP ePPP eSS eL F WIT: ePKP	18	01	20		20	1.8		5.7		4.6S 152.3E, H: 17 40 22.9 h 44 km. Mb 5.3. Ms 5.9. New Britain region.
July 30.	DBN: ePP eSS eL F WIT: ePKP	20	34	46		20	1.8		5.7		4.6S 152.3E, H: 20 13 56.1 h 16 km. Mb 5.5. New Britain region.
July 30.	DBN: iP iPP iPPP iS iSP eSS eL F WIT: iP e eL HEE: eS eL	21	56	08	+	19			700	7.9	56.8N 135.7W, H: 21 45 14.1 h 25 km. Mb 6.5. Ms 7.6. Southeastern Alaska.
July 30.	DBN: eL F WIT: ePKP e ePP	24	10								5.7S 130.5E, H: 23 17 19.5 h 57 km. Mb 5.9. Banda Sea.
July 31.	DBN: iP iPP ePPP eS eL F WIT: eP	03	41	23	+	19			2.8	5.7	30.7N 141.6E, H: 03 28 30.2 h 36 km. Mb 5.7. Ms 5.8. South of Honshu, Japan.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
July 31.	DBN: iP ePP eS eL F WIT: eP	16	09	03 12 32 19 48 39 40 08 59.0		19			2.8	5.7	30.7N 141.6E, H: 15 56 08.5 h N. Mb 5.4. Ms 5.6. South of Honshu, Japan.
Aug. 1.	DBN: eP iPKP iPP iPPP eSKS eSS eL F WIT: eP ePKP	19	21	00 11 40 52 11 00 57 22.0 21 06 25 12	-	27			7.0	6.2	2.3N 127.4E, H: 19 06 33.8 h 96 km. Mb 5.9. Molucca Passage.
Aug. 1.	DBN: eL F	22	07	33							3.3S 148.7E, H: 21 06 39.1 hN. Mb 4.8. Bismarck Sea.
Aug. 2.	DBN: ePKP eL F WIT: ePKP	01	30	41 29 37 30 37.5	+						18.9S 173.3W, H: 01 11 02.0 h 60 km. Mb 4.9. Tonga Islands.
Aug. 2.	DBN: eL F	10	50	09							11.3S 161.8E, H: 09 42 58.2 h 59 km. Mb 4.8. Solomon Islands.
Aug. 2.	WIT: eP	11	24	25.5							47.4N 147.2E, H: 11 13 22.1 h 351 km. Mb 5.0. Northwest of Kuril Islands.
Aug. 2.	DBN: eL F	15	25	31							BCIS: 38.2N 33.2E, H: 15 11 10. Turkey.
Aug. 2.	WIT: iPKP e e	20	08	30.1 39.8 17.4	+						26.2S 177.8W, H: 19 48 57.3 h 224 km. Mb 5.3. South of Fiji Islands.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug.	2.	DBN: iP	21	50	05	+	18		3.0	5.6	56.1N 163.2E, H: 21 38 50.4 h N. Mb 5.6. Ms 5.7. Near east coast of Kamchatka.
		i	21	50	17						
		ePP	21	52	41						
		ePPP	21	54	27						
		eS	21	59	31						
		eSS	22	04.2							
		eL	22	12							
		F	23	47							
WIT: iP	21	50	01.0	+							
	i	21	50		13.0						
Aug.	2.	WIT: eP	23	11	38	-				28.1N 56.9E, H: 23 03 28.9 h 31 km. Mb 5.0. Iran.	
Aug.	3.	DBN: iP	04	52	46	+	19		13.9	6.3	51.2N 178.1W, H: 04 40 54.9 h 49 km. Mb 5.8. Ms 6.2. Andreanof Islands, Aleutian Islands.
		ePPP	04	57	40						
		iS	05	02	34						
		eSS	05	07	37						
		eL	05	17							
		F	08.9								
WIT: eP	04	52	42.0								
Aug.	3.	WIT: iP	07	11	32.8	+				51.2N 178.1W, H: 06 59 45.9 h 45 km. Mb 5.5. Ms 5.4. Andreanof Islands, Aleutian Islands.	
Aug.	3.	WIT: eP	07	15	01.0					51.2N 178.0W, H: 07 03 14.2 h 48 km. Mb 5.4. Andreanof Islands, Aleutian Islands.	
Aug.	3.	DBN: eS	21	49	08					37.7N 32.7E, H: 21 39 26.0 h 41 km. Mb 4.5. Turkey.	
		eL	21	51.0							
		F	22	12							
Aug.	4.	DBN: iP	11	49	12		17	8.0		6.0	56.2N 135.3W, H: 11 38 08.3 h 20 km. Mb 5.6. Ms 5.8. Southeastern Alaska.
		i	11	49	27						
		eS	11	58	03						
		eSS	12	02.5							
		eSSS	12	05.8							
		eL	12	09							
		F	13.1								
		WIT: eP	11	49	02.5						

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug. 4.	DBN: iP ePP eS ePPS eSS eSSS eL F WIT: iP	18 18 18 18 18 18 18 19.6 18	03 05 12 13 17.7 21.5 26 52.4	00 44 44 36 - - - - -	-	22		29	6.5	49.2N 156.1E, H: 17 51 12.9 h 54 km. Mb 5.7. Kuril Islands.	
Aug. 4.	DBN: eL F	21 21	08 48							11.2S 162.1E, H: 20 01 37.7 h 34 km. Mb 5.2. Ms 6.0. Solomon Islands.	
Aug. 4.	DBN: eL F	23 24	35 48			21		5.5	6.3	11.1S 162.0E, H: 22 30 36.3 h 36 km. Mb 5.5. Ms 6.1. Solomon Islands.	
Aug. 5.	WIT: iP	04	02	32.5	+					17.9S 178.6W, H: 03 44 01.8 h 619 km. Mb 5.2. Fiji Islands region.	
Aug. 5.	DBN: eL F	07 08.3	36			20		2.1	5.9	11.2S 162.1E, H: 06 30 58.8 h N. Mb 5.4. Ms 6.1. Solomon Islands.	
Aug. 6.	DBN: eL F WIT: iP	01 02.0 01	39							25.1N 61.2E, H: 01 12 50.4 h N. Mb 5.5. Southern Iran.	
Aug. 6.	DBN: ePKP ePP ePKS eSS eSSS eL F WIT: ePKP	07 07 07 07 07 08.4 09.9 07	34 36 37 54.2 59.5 34	03 32 26 - - - - 01		20		7.1	6.4	11.1S 162.0E, H: 07 14 46.6 h 56 km. Mb 5.9. Solomon Islands.	
Aug. 6.	WIT: eP	16	03	20.5						14.7N 55.6E, H: 15 53 55.6 h N. Mb 5.2. Arabian Sea.	
Aug. 7.	DBN: ePKP ePP eSS eL F WIT: ePKP ipPKP	09 09 10 10 11.7 09 09	43 47 05.5 33 11.7 43 44	48 06 - - - 47 00.0	+	6 19	2.5		3.5 6.1	16.6S 172.1W, H: 09 24 14.7 h 33 km. Mb 5.8. Ms 6.0. Samoa Islands region.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug. 7.	DBN: ePKP WIT: ePKP	23	35	54	-						19.1S 169.1E, H: 23 16 39.0 h 184 km. Mb 5.5. New Hebrides Islands.
Aug. 8.	WIT: iP	19	18	19.8	-						25.0N 61.1E, H: 19 09 33.5 h 41 km. Mb 5.5. Ms 5.0. Southern Iran.
Aug. 9.	WIT: iP	00	57	12.8	+						23.3S 178.3W, H: 00 37 57.9 h 323 km. Mb 5.0. South of Fiji Islands.
Aug. 9.	DBN: eL F WIT: iP	05 05.7 04	03		-	18		2.7		5.6	7.9N 94.1E, H: 04 17 37.3 h N. Mb 5.1. Ms 5.6. Nicobar Islands region.
Aug. 9.	DBN: eL F	20 20	14 27			14		1.0		4.8	53.0N 107.5E, H: 19 42 17.3 h N. Mb 5.1. Ms 4.7. Lake Baikal region.
Aug. 10.	WIT: ePKP	15	51	11.0							21.5S 174.6W, H: 15 31 24.7 h N. Mb 5.7. Ms 5.3. Tonga Islands.
Aug. 10.	DBN: eL F	21 21	41 50								32.4N 93.5E, H: 21 06 40.1 h N. Mb 5.2. Ms 4.8. Tibet.
Aug. 11.	DBN: eL F	02 03	55 08			12			1.6	5.2	44.7N 102.0E, H: 02 22 14.2 h N. Mb 5.0. Ms 5.1. Mongolia.
Aug. 11.	WIT: ePKP	07	50	42.5							25.1S 179.2W, H: 07 31 31.0 h 390 km. Mb 4.9. South of Fiji Islands.
Aug. 11.	WIT: iP	13	36	00.0	+						54.6N 161.6E, H: 13 24 44.0 h 33 km. Mb 5.3. Ms 5.0. Near east coast of Kamchatka.
Aug. 12.	DBN: iP eS eL F WIT: iP i ipP	09 10 10 11.0 09 09 09	53 03.7 18	56		6	1.4				51.4N 179.3W, H: 09 42 05.2 h 29 km. Mb 5.9. Ms 5.7. Andreanof Islands, Aleutian Islands.
											52.2(-) 02.4 11.0

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug. 12.	DBN: eP eS eL F WIT: eP	13	28	22 51 55 16 27.5		20			3.2	5.7	5.0N 82.6W, H: 13 15 48.1 h N. Mb 5.7. Ms 5.6. South of Panama.
Aug. 12.	DBN: eL F	23	56.6			12			8.2	5.0	41.1N 22.8E, H: 23 47 57.3 h 12 km. Mb 4.9. Yugoslavia.
Aug. 13.	WIT: eP	08	18	17.0							47.2N 144.7E, H: 08 07 22.6 h 417 km. Mb 4.8. Sea of Okhotsk.
Aug. 13.	WIT: e	09	29	52.0							No determination of epicenter.
Aug. 13.	WIT: ePKP	12	06	45.0							51.8S 73.9W, H: 11 47 48.0 h N. Mb 5.6. Near coast of southern Chile.
Aug. 14.	WIT: ePKP	12	05	21.0	+						17.9S 178.6W, H: 11 46 50.6 h 622 km. Mb 4.8. Fiji Islands region.
Aug. 14.	DBN: eL F WIT: ePKP	23	30	28.5	+	20			1.4	5.6	6.3S 144.4E, H: 22 29 27.6 h 44 km. Mb 5.6. Ms 5.5. New Guinea.
Aug. 15.	WIT: iPKP	04	09	13.5	-						17.8S 178.8W, H: 03 50 38.3 h 573 km. Mb 4.9. Fiji Islands region.
Aug. 15.	DBN: eL F WIT: eP	11	31	06.5							56.3N 135.5W, H: 10 56 12.8 h 21 km. Mb 5.6. Ms 4.8. Southeastern Alaska.
Aug. 16.	WIT: eP	03	25	01.5							49.8N 78.1E, H: 03 16 57.2 h 0 km. Mb 5.2. Eastern Kazakh SSR.
Aug. 16.	DBN: eL F	12.6		13.6							51.9S 139.6E, H: 11 25 53.8 h N. Mb 5.1. Ms 5.6. South of Australia.
Aug. 17.	DBN: eL F	15	36	09							14.0S 74.6W, H: 14 50 51.0 h 14 km. Mb 5.4. Peru.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Aug. 17.	DBN: iPdif	23	59	56	-						6.0S 152.9E, H: 23 44 05.9 h 10 km. Mb 6.4. Ms 7.1. New Britain region.
	iPKP	00	03	12		7	2.7				
	iPP	00	05	08							
	ePKS	00	06	28							
	eSKKS	00	12	20							
	iPS	00	15	14							
	eSS	00	22								
	eSSS	00	26								
	eL	00	38			20		53		7.2	
	F	04.6									
	WIT: iPKP	00	03	10.1	+						
	i	00	03	17.4							
	ePP	00	04	58							
	HEE: ePKP	00	03	20							
Aug. 18.	WIT: ePKP	00	42	53							6.0S 152.6E, H: 00 23 48.2 h 8 km. Mb 6.0. New Britain region.
Aug. 18.	WIT: ePKP	01	31	03							6.0S 152.8E, H: 01 12 02.5 h 35 km. Mb 5.6. New Britain region.
Aug. 18.	WIT: eP	19	13	25.0							53.0N 159.9E, H: 19 02 00.8 h N. Mb 5.1. Near east coast of Kamchatka.
Aug. 20.	WIT: iP	03	05	34.5							49.5N 48.2E, H: 02 59 57.9 h 0 km. Mb 5.7. Western Kazakh SSR.
Aug. 20.	DBN: eL	08	50								51.3N 161.6E, H: 08 10 08.1 h N. Mb 5.2. Off east coast of Kamchatka.
	F	09	15								
	WIT: iP	08	21	43.1	+						
Aug. 20.	DBN: eL	10	50								38.7N 140.0E, H: 10 09 10.8 h 25 km. Mb 5.5. Honshu, Japan.
	F	11	13								
	WIT: eP	10	21	25							
Aug. 21.	DBN: iP	06	34	26	-	5	3.7				49.5N 147.0E, H: 06 23 48.9 h 578 km. Mb 5.9. Sea of Okhotsk.
	ipP	06	36	30							
	isP	06	37	21							
	iS	06	43	10							
	iPS	06	43	36							
	F	07.9									
	WIT: iP	06	34	19.9	-						
	ipP	06	36	23.5							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug. 22.	DBN: eL F	22	28								ISC: 22.97N 120.20E, H: 21 54 51.6, h 10 km. Taiwan.
Aug. 23.	WIT: iP	08	58	11.8	+						58.3N 153.6W, H: 08 47 16.0 h 61 km. Mb 5.5. Kodiak Island region.
Aug. 25.	DBN: eL F	09	05.0								71.4N 12.4W, H: 08 54 51.6 h N. Mb 4.2. Jan Mayen Island region.
Aug. 25.	DBN: eL F	16	12								No determination of epicenter.
Aug. 25.	DBN: eL F	23	03								6.1S 152.6E, H: 22 10 23.4 h N. Mb 5.1. New Britain region.
Aug. 26.	DBN: eL F	05	38								3.1S 136.0E, H: 04 39 15.1 h N. Mb 5.3. West New Guinea.
Aug. 26.	DBN: eL F	18	43								43.2N 127.4W, H: 18 05 01.4 h N. Mb 4.9. Ms 4.4. Off coast of Oregon.
Aug. 27.	DBN: eSS eL F	15	16.0								22.6N 100.7E, H: 14 49 31.9 h N. Mb 4.8. Ms 5.1. Burma-China border region.
Aug. 27.	DBN: eL F	20	04								10.6N 42.5W, H: 19 38 05.2 h N. Mb 4.8. Ms 4.3. North Atlantic Ridge.
Aug. 28.	DBN: iP eL F WIT: iP	06	06	06	+	4	1.6				73.3N 55.1E, H: 05 59 56.5 h 0 km. Mb 6.3. Ms 4.7. Novaya Zemlya.
		06	15			11		10.4			
		07.1									
		06	05	56.7	+						
Aug. 28.	WIT: iP	15	32	47.4	-						51.4N 179.2W, H: 15 21 01.8 h 45 km. Mb 5.5. Ms 4.6. Andreanof Island, Aleutian Islands.
Aug. 28.	DBN: ePKP eSS eL F WIT: iP	19	17	51	+	3	0.9				21.3S 174.5W, H: 18 58 03.2 h N. Mb 5.6. Ms 6.0. Tonga Islands.
		19	40	36							
		20.3				20		2.8			
		22.1									
		19	17	50.2	+						

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug. 29.	DBN: eL F	02	16								25.4N 109.8W, H: 01 35 27.2 h N. Mb 4.8. Gulf of California.
Aug. 29.	WIT: eP	03	40	26.5							11.0N 62.3W, H: 03 29 23.2 h 70 km. Mb 5.3. Windward Islands.
Aug. 29.	WIT: iPKP	06	18	28.8							20.0S 175.3W, H: 05 59 01.7 h 154 km. Mb 5.4. Tonga Islands.
Aug. 29.	DBN: eS eL F	19	32.8								8.5N 39.4W, H: 19 15 17.8 h N. Mb 4.7. Ms 4.6. Central Mid-Atlantic Ridge.
Aug. 30.	WIT: iPKP	05	39	56.1							19.8S 177.7W, H: 05 21 15.6 h 562 km. Mb 4.9. Fiji Islands region.
Aug. 30.	DBN: ePP i iPPP ePS ePPS eSS eSSS eL F	10	50	12							3.5S 144.9E, H: 10 29 51.0 h 13 km. Mb 5.6. Ms 6.4. Near north coast of New Guinea.
Aug. 30.	WIT: e	14	30	53							No determination of epicenter.
Aug. 30.	DBN: eL F WIT: eP	15	43			14			3.9	5.6	36.7N 96.5E, H: 15 14 09.9 h N. Mb 5.5. Ms 5.3. Tsinghai Province, China.
Aug. 30.	DBN: eP eL F WIT: iP i	18	58	12							36.6N 96.4E, H: 18 47 42.6 h N. Mb 5.5. Ms 5.0. Tsinghai Province, China.
Aug. 30.	WIT: eP	18	17			15			2.6	5.4	
Aug. 30.	WIT: eP	18	58	00.7	-						
Aug. 30.	WIT: eP	18	58	06.5	-						
Aug. 30.	WIT: eP	19	01	52.0	-						36.7N 96.3E, H: 18 51 34.8 h N. Mb 5.5. Tsinghai Province, China.
Aug. 31.	DBN: eL F WIT: eP	03	02								13.3N 88.5W, H: 02 24 09.6 h 50 km. Mb 5.4. Ms 4.8. El Salvador.
		03	40								
		02	36	48	-						

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Aug. 31.	WIT: ePKP2	05	53	25						21.2S 179.2W, H: 05 34 47.5 h 625 km. Mb 4.8. Fiji Islands region.	
Aug. 31.	DBN: eP eL F WIT: iP	08 08 09 08	19 49 40 19	47 40.3	-	13		4.2		35.9N 136.7E, H: 08 07 22.5 h 24 km. Mb 5.5. Ms 4.9. Southern Honshu, Japan.	
Aug. 31.	DBN: eP eL F WIT: eP	14 14 15 14	12 29 06 12	24 13.0		13		3.1		52.3N 95.4E, H: 14 03 16.4 h N. Mb 5.5. Ms 4.9. Central Russia.	
Sep. 1.	WIT: ePKP	13	06	27						15.0S 167.3E, H: 12 47 14.2 h 130 km. Mb 5.6. New Hebrides Islands.	
Sep. 2.	DBN: iP ePP iS ePS eL F WIT: eP i i i ePP	02 02 02 02 02 05.1 02 02 02 02 02	02 05 12 13 33 02 02 02 02 05	14 34 35 28 08.5 10.4 20.1 33.9 26.0	(+) -	8 20	1.4		6.5	29.4N 130.5E, H: 01 49 36.8 h 41 km. Mb 6.1. Ms 5.9. Ryukyu Islands.	
Sep. 2.	WIT: eP e	02 02	54 54	05.5 18.0	(-)					48.8N 156.5E, H: 02 42 21.6 h N. Mb 5.1. Kuril Islands region.	
Sep. 2.	WIT: eP	04	00	48.0						48.9N 156.2E, H: 03 49 06.0 h 47 km. Mb 4.9. Kuril Islands region.	
Sep. 2.	WIT: iP e	04 04	34 34	31.1 37.0	-					22.1S 179.7W, H: 04 15 47.7 h 591 km. Mb 4.9. South of Fiji Islands.	
Sep. 2.	WIT: iP	05	46	56.0	-					22.0S 170.0E, H: 05 27 15.4 h 34 km. Mb 4.8. Loyalty Islands region.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 2.	DBN: eP	14	58	46	(-)	6	1.2			31.5N 16.3E, H: 14 53 51.4 h N. Mb 5.0. Ms 5.4. Near coast of Libya.	
		14	58	54	+						
	eH	15	01	40		14	17.8		5.5		
		15	02	52							
	eL	15	04.2								
		F	17.1								
	WIT: eP	14	58	51.9	-						
		i	14	59	02.0	+					
		i	14	59	23.7						
		e	14	59	52.0						
Sep. 2.	DBN: eL	17	54						No determination of epicenter.		
		F	18	20							
Sep. 2.	DBN: eL	19	18						48.9N 156.4E, H: 18 32 32.1 h N. Mb 4.6. Kuril Islands region.		
		F	19	34							
Sep. 2.	DBN: eL	20	00						35.5N 140.9E, H: 19 12 26.8 h 54 km. Mb 4.7. Near east coast of Honshu, Japan.		
		F	20	16							
Sep. 3.	DBN: eL	01.5							55.5S 28.5W, H: 00 43 22.8 h N. Mb 5.1. South Sandwich Islands region.		
		F	01.9								
Sep. 3.	DBN: e	06	51	44		25	10.7	6.5	5.6S 151.3E, H: 06 31 21.6 h 45 km. Mb 5.4. Ms 6.2. New Britain region.		
		ePP	06	52	20						
	ePKS	06	53	51							
	ePS	07	02	08							
	ePPS	07	03	40							
	eSS	07	09	11							
	eSSS	07	14.0								
	eL	07	26								
	F	11.0									
	WIT: ePKP	06	50	23							
Sep. 3.	WIT: ePKP	08	14	55					5.6S 151.2E, H: 07 55 59.1 h 49 km. Mb 5.2. Ms 5.9. New Britain region.		
Sep. 3.	WIT: iP	08	43	19.7	-				39.2N 28.1E, H: 08 38 43.2 h 16 km. Mb 4.6. Turkey.		
		e	08	43	31.5						

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Sep. 3.	WIT: ePKP	16	23	40							6.0S 152.8E, H: 16 04 40.1 h 48 km. Mb 5.3. New Britain region.
Sep. 3.	DBN: iP	16	57	19	+	6	6.2				36.0N 73.4E, H: 16 48 28.8 h 36 km. Mb 6.3. Ms 6.2. Northwestern Kashmir. More than 100 dead.
	iPP	16	59	16							
	iS	17	04	28							
	eSS	17	08.1								
	eL	17	12			16		41	6.4		
	F	19	17								
	WIT: iP	16	57	11.2	+						
	i	16	57	22.9	+						
	e	16	57	37.5							
	ePP	16	59	06.0							
Sep. 3.	DBN: eP	23	12	42							35.9N 73.3E, H: 23 03 52.1 h N. Mb 5.6. Northwestern Kashmir.
	eL	23	30								
	F	23	58								
	WIT: eP	23	12	35							
Sep. 4.	DBN: eL	00	44								41.6N 141.9E, H: 00 05 51.4 h 76 km. Mb 5.3. Hokkaido, Japan.
	F	01	25								
	WIT: iP	00	17	47.0	+						
Sep. 4.	WIT: eP	00	59	05.5							36.0N 73.3E, H: 00 50 26.7 h 68 km. Mb 5.3. Northwestern Kashmir.
Sep. 4.	WIT: eP	01	32	34.5	-						35.8N 73.3E, H: 01 23 49.5 h N. Mb 5.6. Northwestern Kashmir.
Sep. 4.	DBN: iP	13	51	09	+						35.9N 73.4E, H: 13 42 18.1 h N. Mb 5.8. Northwestern Kashmir.
	eL	14	09								
	F	14	36								
	WIT: iP	13	51	02.0	+						
Sep. 4.	DBN: ePKP	18	30	30	(+)	8	4.1				11.7S 166.2E, H: 18 11 12.0 h 62 km. Mb 6.0. Santa Cruz Islands.
	iPP	18	33	09							
	iPKS	18	34	08							
	iPPP	18	36	32							
	iSP	18	43	12							
	iSPP	18	45	24							
	eSS	18	51	11							
	eSSS	18	56	20							
	eL	19	14			24		49	7.2		
	F	22.4									
	WIT: ePKP	18	30	29							
	i	18	30	46.6							
	e	18	30	50.5							
	ePP	18	33	09							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 4.	WIT: iPKP	21	43	02.4	-					17.9S 178.4W, H: 21 24 30.6 h 607 km. Mb 5.3. Fiji Islands region.	
Sep. 4.	DBN: eL F	22.6 23.8								17.6S 173.0W, H: 21 27 51.5 h N. Mb 4.9. Tonga Islands.	
Sep. 4.	WIT: iPKP	21	47	27.5	-						
Sep. 4.	DBN: eP eSKS eL F	23 45 20 23 55 45 24 15 24.9								3.8S 80.6W, H: 23 32 24.3 h 63 km. Mb 5.4. Peru-Ecuador border region.	
Sep. 4.	WIT: eP	23	45	27							
Sep. 5.	DBN: iPKP eL F	02 59 25 04 01 04 40			+					21.6S 169.7E, H: 02 39 46.1 h 55 km. Mb 4.9. Loyalty Islands region.	
Sep. 5.	WIT: iPKP	02	59	22.5	+						
Sep. 5.	DBN: iPP iPPP eL F	05 42 47 05 45 14 06 22 07.0								6.9S 129.7E, H: 05 23 02.0 h 86 km. Mb 5.8. Banda Sea.	
Sep. 5.	DBN: iPP ePPP	17 37 08 17 39 10								1.9N 128.2E, H: 17 18 27.1 h 132 km. Mb 6.1. Halmahera.	
Sep. 5.	WIT: ePKP ePP	17 36 40 17 37 00									
Sep. 5.	DBN: iPKP eL F	17 50 08 18 40 19.9			+	9 23	5.0			19.9S 169.0E, H: 17 30 35.7 h 52 km. Mb 6.1. New Hebrides Islands.	
Sep. 5.	WIT: iPKP ipPKP	17 50 05.8 17 50 18.7			+						
Sep. 5.	HEE: ePKP	17 50 16									
Sep. 5.	DBN: iPKP WIT: epPKP	18 23 07 18 23 16.0								19.8S 169.0E, H: 18 03 35.0 h 74 km. Mb 5.2. New Hebrides Islands.	
Sep. 6.	DBN: eL F	08 56 09 00								41.3N 4.1E, H: 08 49 47.4 h N. Mb 4.9. Western Mediterranean Sea.	
Sep. 7.	DBN: eP ePP eS eSSS eL F	03 06 35 03 09 28 03 16 20 03 21.4 03 30 04 54								2.0S 68.0E, H: 02 54 58.3 h N. Mb 5.8. Ms 5.7. Carlsberg Ridge.	
Sep. 7.	WIT: eP	03 06 37.5			+						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms							
		h	m	s			Z	NS	EW									
Sep. 1972	7.	DBN: ePn	22	28	47	-	15		65	5.4	46.0N 1.1W, H: 22 26 57.9 h N. Mb 5.3. France.							
		iPg	22	29	25													
		i	22	29	34													
		iSn	22	30	12													
		i	22	30	50													
		eL	22	31.0														
		F	23	12														
		WIT: ePn	22	29	00.5													
		i	22	29	15.0													
		iPg	22	29	48.1													
		iSn	22	30	40.0													
		HEE: ePn	22	28	40													
		eP*	22	29	03													
		i	22	29	13													
iSn	22	29	57															
Sep.	8.	WIT: iP	06	42	27.0	+					43.2N 145.5E, H: 06 30 34.0 h 69 km. Mb 5.2. Hokkaido, Japan.							
Sep.	8.	DBN: iP	11	39	24	+	7	13.5			71.6N 10.0W, H: 11 34 46.2 h N. Mb 5.7. Ms 5.9. Jan Mayen Island region.							
		iPP	11	39	47													
		iS	11	43	00													
		eL	11	44.5														
		F	14.0															
		WIT: eP	11	39	18.5													
		i	11	39	20.7													
		HEE: eP	11	39	39													
		e	11	39	45													
		Sep.	8.	DBN: eL	14.4													No determination of epicenter.
				F	15.5													
		Sep.	8.	DBN: eL	19.1													15.3S 175.5E, H: 17 51 36.0 h N. Mb 5.2. Tonga Islands.
				F	19							40						
		Sep.	9.	DBN: eL	00							27						No determination of epicenter.
F	01.0																	
Sep.	9.	DBN: iPKP	03	03	38		20	7.2		6.5	15.4S 175.7W, H: 02 44 03.1 h 35 km. Mb 5.9. Ms 6.1. Tonga Islands.							
		eSS	03	25.4														
		eSSS	03	30.9														
		eL	03	51														
		F	05	40														
Sep.	9.	DBN: eL	07.0							3.2S 146.9E, H: 05 48 21.7 h 7 km. Mb 4.9. Bismarck Sea.								
		F	07	10														

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms				
		h	m	s			Z	NS	EW						
Sep. 10.	DBN: iPKP	06	23	01	+	8	5.5			20.2S 168.8E, H: 06 03 25.7 h 39 km. Mb 5.4. Ms 6.2. Loyalty Islands.					
	ipPKP	06	23	22											
	eSS	06	45.4												
	eL	07	17	20							5.3	6.3			
	F	09.5													
WIT: ePKP	06	22	59.7	(-)											
Sep. 10.	DBN: iPKP	11	27	05	+					20.1S 168.8E, H: 11 07 31.2 h 58 km. Mb 5.2. Loyalty Islands.					
	eL	12.6													
	F	12.9													
WIT: iPKP	11	27	02.2	+											
Sep. 11.	WIT: eP	03	14	38						59.6N 148.9W, H: 03 03 50.0 h 27 km. Mb 5.1. Kenai Peninsula, Alaska.					
Sep. 11.	HEE: eL	07	52.1							46.0N 1.0W, H: 07 48 37.5 h N. Mb 4.9. France.					
Sep. 11.	DBN: eL	11	40							3.6S 149.8E, H: 10 36 56.9 h N. Mb 5.2. Ms 5.2. Bismarck Sea.					
	F	12	55												
Sep. 11.	DBN: eSP	14	04	52		22				3.2S 130.8E, H: 13 35 48.5 h N. Mb 5.5. Ms 6.0. Ceram.					
	ePPS	14	06.0												
	eSS	14	11.0												
	eSSS	14	15.5												
	eL	14	30								3.8	6.0			
	F	16.0													
Sep. 11.	DBN: eL	18	26							3.7S 149.9E, H: 17 24 57.1 h N. Mb 5.3. Ms 5.2. Bismarck Sea.					
	F	19	03												
Sep. 12.	DBN: eSS	04	30.8							8.4N 103.0W, H: 04 00 53.3 h N. Mb 5.3. Ms 5.4. Off coast of Mexico.					
	eL	04	45												
	F	05	35												
Sep. 13.	DBN: iP	04	17	34	-	6	26.3			37.9N 22.4E, H: 04 13 20.5 h 83 km. Mb 6.0. Southern Greece.					
	ipP	04	17	52											
	iS	04	21	00											
	isS	04	21	30											
	eL	04	22.7	15							41	5.7			
	F	06.0													
	WIT: iP	04	17	32.0							-				
	epP	04	17	46.5											
	i	04	18	08.0											

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 13.	WIT: ePKP	06	41	55.5	-					20.3S 168.7E, H: 06 22 22.5 h 48 km. Mb 5.1. Loyalty Islands.	
Sep. 13.	DBN: iPKP i iPP eL F WIT: ePKP	13 13 13 13 13 13	11 12 15 54 in next shock 11	54 21 17 54 shock 48	+	6	2.9			20.4S 168.7E, H: 12 52 17.6 h 32 km. Mb 5.0. Ms 5.6. Loyalty Islands.	
Sep. 13.	WIT: ePKP	13	26	25.0	-					20.3S 168.8E, H: 13 06 55.9 h 75 km. Mb 4.9. Loyalty Islands.	
Sep. 13.	DBN: iPKP F WIT: ePKP	14 14 14	11 in next shock 11	33 shock 30.0	+	8	1.7			20.2S 168.8E, H: 13 51 59.0 h 58 km. Mb 4.9. Loyalty Islands.	
Sep. 13.	DBN: iPKP iPP ePPP eSKS ePPS eSS eSSS eL F WIT: ePKP i	14 14 14 15 15 15 15 15 15 14 14	53 56 59 00 09 15.6 20.6 36 18.8 53 53	12 37 52 22 17 10.5 12.9	+	8	18.7		16.0	6.8 20.4S 168.8E, H: 14 33 38.0 h 35 km. Mb 5.9. Ms 6.6. Loyalty Islands.	
Sep. 13.	DBN: iPKP WIT: ePKP	15 15	15 15	21 18.0	+					20.4S 168.9E, H: 14 55 46.1 h 53 km. Mb 5.6. Loyalty Islands.	
Sep. 14.	DBN: ePKP WIT: ePKP e	09 09 09	43 43 43	50 46.5 57.0	+					20.5S 168.9E, H: 09 24 12.1 h 33 km. Mb 5.3. Ms 5.1. Loyalty Islands.	
Sep. 15.	WIT: ePKP	03	31	41.5						17.9S 178.6W, H: 03 13 09.9 h 600 km. Mb 5.0. Fiji Islands region.	
Sep. 15.	DBN: iPKP eL F	13 14 15.5	38 25	21	+					20.1S 168.8E, H: 13 18 45.4 h 21 km. Mb 5.2. Ms 5.2. Loyalty Islands.	

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Sep. 15.	DBN: iPKP eL F WIT: ePKP	18 18.9 20.3 18	06 06	26 21							20.4S 168.7E, H: 17 46 50.8 h 25 km. Mb 5.4. Loyalty Islands.
Sep. 15.	WIT: iPKP	22	02	10.0	+						17.2S 178.9W, H: 21 43 34.1 h 539 km. Mb 5.3. Fiji Islands region.
Sep. 16.	DBN: iP eS eL F WIT: eP eL	03 04 04 04 03 04	57 00 01.4 50 57 02.5	08 22 04	+	4	0.8				40.3N 19.7E, H: 03 53 26.5 h 15 km. Mb 5.1. Ms 4.7. Albania.
Sep. 16.	DBN: eL F	06 06	27 45								41.2S 85.8W, H: 05 23 09.2 h N. Mb 4.3. Ms 5.2. West Chile Rise.
Sep. 16.	DBN: iP iPP iS iSP eSS eL F WIT: eP i	09 09 09 09 09 09 11.3 09 09	27 30 37 38 43.2 52 27 27	08 24 40 06 12.0 21.7	-	8	3.4				15.2N 96.2W, H: 09 14 34.6 h N. Mb 6.0. Ms 5.7. Near coast of Oaxaca, Mexico.
Sep. 16.	DBN: eL F	13 14	20 52								10.6S 161.2E, H: 12 11 26.6 h 56 km. Mb 5.5. Solomon Islands.
Sep. 16.	DBN: eL F	14 14	13.7 19								41.3N 20.7E, H: 14 06 26.1 h 6 km. Mb 5.2. Albania.
Sep. 16.	DBN: eL F	17 18	02 00								10.6S 161.2E, H: 15 53 18.3 h 52 km. Mb 5.4. Solomon Islands.
Sep. 17.	WIT: ePKP	09	37	26.0							20.5S 178.8W, H: 09 18 49.7 h 625 km. Mb 4.4. Fiji Islands region.

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 17.	DBN: iP	14	11	19	+	7	10.2			38.3N 20.3E, H: 14 07 15.6 h N. Mb 5.6. Ms 6.3. Greece.	
	iPP	14	11	35							
	iS	14	14	31	18	375	6.6				
	eL	14	15.9								
	F	16.9									
	WIT: iP	14	11	19.8	+						
	iPP	14	11	32.0							
	i	14	11	56.5							
	HEE: eP	14	11	11							
	eS	14	14	21							
eL	14	16.0									
Sep. 17.	DBN: eL	17.0							24.4S 13.0W, H: 16 18 13.6 h N. Mb 4.8. South Atlantic Ridge.		
	F	18.0									
Sep. 17.	DBN: eL	18.1							35.9N 73.3E, H: 17 37 48.5 h N. Mb 5.4. North western Kashmir.		
	F	18.5									
	WIT: eP	17	46	31							
Sep. 17.	WIT: eP	21	09	13.5(-)					5.7N 77.6W, H: 20 56 52.3 h 22 km. Mb 4.9. Ms 4.9. Near west coast of Colombia.		
Sep. 17.	DBN: iP	21	29	53	(-)				5.7N 77.6W, H: 21 17 39.2 h 22 km. Mb 5.4. Ms 5.0. Near west coast of Colombia.		
	eS	21	40	04							
	eSP	21	40	55							
	eL	21	53								
	F	22.8									
	WIT: iP	21	30	00.3						-	
Sep. 18.	DBN: eL	00	10						31.8N 141.6E, H: 23 25 26.4 h 16 km. Mb 4.8. South of Honshu, Japan.		
	F	00.9									
Sep. 18.	WIT: ePKP	01	09	32					24.8S 179.8E, H: 00 50 34.6 h 499 km. Mb 4.7. South of Fiji Islands.		
Sep. 18.	DBN: eL	06	07						19.5N 70.1W, H: 05 36 53.3 h 13 km. Mb 4.8. Ms 4.6. Dominican Republic region.		
	F	06	54								
Sep. 18.	DBN: e(P)	08	24	42					38.2N 20.2E, H: 08 20 24.8 h 14 km. Mb 4.6. Greece.		
	eL	08	30.0								
	F	08	57								

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 18.	DBN: eL F	09	08								52.6S 19.1E, H: 08 12 04.3 h N. Mb 4.8. Southwest of Africa.
Sep. 18.	DBN: eL F	21	38								10.0S 119.6E, H: 20 35 38.2 h 46 km. Mb 5.7. Sumba Island region.
Sep. 19.	DBN: eP iPcP iS eSS eL F WIT: iP	01 01 01 02 02 04.3	47 48 56 00 06.2	37 08 24 20	-	22			13.4	6.2	19.5N 70.1W, H: 01 36 52.4 h N. Mb 5.8. Ms 6.1. Dominican Republic region.
Sep. 19.	DBN: ePP ePPP eL F	15 15 16 16.9	28 31 11	48 27							5.7S 148.1E, H: 15 08 19.1 h 202 km. Mb 5.4. New Britain region.
Sep. 19.	WIT: ePKP	17	59	51.0	+						19.2S 173.8W, H: 17 40 13.6 h 55 km. Mb 5.4. Tonga Islands.
Sep. 20.	DBN: iPcP ePP eL F WIT: iPcP	08 08 08 10 08	05 08 58 18	00 24	+	8	1.4				19.3S 173.8W, H: 07 45 17.0 h N. Mb 5.4. Ms 5.4. Tonga Islands.
Sep. 20.	DBN: eL F	17 18	56 36								4.2S 101.6E, H: 17 02 47.1 h 66 km. Mb 5.2. Southern Sumatra.
Sep. 20.	DBN: eL F	19 20	52 35								10.9S 165.9E, H: 18 41 44.0 h 47 km. Mb 5.2. Ms 5.3. Santa Cruz Islands.
Sep. 20.	DBN: eS eL F WIT: eP	21 21 22 20	02.3 12 05 54							22.5	14.4N 56.6E, H: 20 44 53.2 h N. Mb 5.3. Ms 4.7. Arabian Sea.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Sep. 20.	DBN: eP	22	22	00							51.8N 174.0E, H: 22 10 15.4
	eS	22	31	48							h 26 km. Mb 5.0. Ms 5.3.
	eSS	22	37.0								Near Islands, Aleutian Is.
	eL	22	43								
	F	24.2									
	WIT: eP	22	21	59.0							
Sep. 21.	DBN: eS	00	33	44							3.0N 96.1E, H: 00 10 13.3
	eL	00	57								h N. Mb 5.2.
	F	02.3									Northern Sumatra.
	WIT: eP	00	22	59.5							
Sep. 21.	WIT: eP	00	59.4								3.0N 96.1E, H: 00 46 40.4
											h N. Mb 5.0.
											Northern Sumatra.
Sep. 21.	WIT: iP	15	41	58.5	+						37.1N 116.0W, H: 15 30 00.2
											h 0 km. Mb 5.7. Ms 4.3.
											Southern Nevada.
Sep. 22.	WIT: iPKP	12	04	24.5							16.5S 174.6W, H: 11 45 14.8
											h 219 km. Mb 5.5.
											Tonga Islands.
Sep. 22.	DBN: iP	20	10	13	+						22.3N 121.2E, H: 19 57 27.4
	iPP	20	13	36							h N. Mb 5.7. Ms 6.2.
	iS	20	20	38							Taiwan region.
	iSP	20	21	44							
	iSS	20	26	32							
	eL	20	38			22		57		6.9	
	F	23.5									
	WIT: eP	20	10	07.0							
Sep. 23.	WIT: iPKP	01	29	54.3	+						21.0S 168.5E, H: 01 10 18.1
											h 33 km. Mb 4.9.
											Loyalty Islands.
Sep. 23.	DBN: iP	02	27	12	+						22.3N 121.4E, H: 02 14 26.8
	iPP	02	30	35							h N. Mb 5.4. Ms 6.1.
	iS	02	37	37							Taiwan region.
	iSP	02	38	44							
	eSS	02	43	32							
	eL	02	55			22		44		6.8	
	F	04.6									
	WIT: eP	02	27	06.0							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 24.	DBN: eL F	13 14	57 16								22.5N 121.3E, H: 13 09 32.0 h 53 km. Mb 4.2. Taiwan region.
Sep. 24.	DBN: ePP i ePPP i eSKS iSP iPPS iSS eSSS eL F WIT: iPKP i ePP e	20 20 20 20 20 20 20 20 20 21.0 24.0	29 30 32 32 35 39 40 45.5 50	24 40 00 53 16 00 21		23			31	7.0	6.3S 131.2E, H: 20 09 35.6 h N. Mb 6.1. Ms 6.9. Tanimbar Islands region.
Sep. 25.	DBN: eL F	00.3 00.9									6.4S 131.2E, H: 23 20 14.6 h N. Mb 5.5. Tanimbar Islands region.
Sep. 25.	DBN: eL F	00 01.9	57								6.3S 131.1E, H: 23 59 04.8 h N. Mb 5.8. Tanimbar Islands region.
Sep. 25.	DBN: eL F	10 10	09 31								38.5N 141.8E, H: 09 27 33.5. h 58 km. Mb 5.2. Near east coast of Honshu, Japan.
Sep. 26.	DBN: eL F	12 12	30 40								34.4N 26.4E, H: 12 17 00.9 h N. Mb 5.1. Crete.
Sep. 26.	DBN: ePKP eSKS eL F WIT: ePKP	21 21 21 23.9	24 30 57	06 32		20		3.2		5.8	30.9S 68.1W, H: 21 05 44.4 h 16 km. Mb 5.9. Ms 5.8. San Juan Province, Argentina.
Sep. 27.	DBN: eL F WIT: eP	00 01 00	43.0 30 19	41		20		4.3		5.7	30.3N 101.7E, H: 00 08 29.9 h N. Mb 5.0. Ms 5.5. Szechwan Province, China.

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Sep. 27.	DBN: eL F	02	33 44							33.9N 72.7E, H: 02 03 39.1 h 46 km. Mb 4.9. West Pakistan.	
Sep. 27.	DBN: iPKP i eL F WIT: ePKP	09 09 10 11.9 09	21 22 08 13.5	16 00	-	18		6.1	6.3	16.5S 172.2W, H: 09 01 43.8 h N. Mb 5.9. Ms 6.0. Samoa Islands region.	
Sep. 27.	DBN: eL F	18 19	41 36			20	3.2		5.7	22.4N 121.2E, H: 17 54 49.7 h 54 km. Mb 5.0. Taiwan region.	
Sep. 27.	WIT: iPKP e	21 21	53 54	51.2 11						23.0S 175.9W, H: 21 34 03.2 h N. Mb 5.0. Tonga Islands region.	
Sep. 29.	DBN: ePKP eL F WIT: ePKP	06 07 09 06	57 54 39 57	22 21.5		20		2.1	5.9	21.1S 174.6W, H: 06 37 35.3 h N. Mb 5.8. Ms 5.7. Tonga Islands.	
Sep. 29.	DBN: eSSS eL F	16 16 17	49.6 54.5 44			20	4.3		5.7	30.4N 101.5E, H: 16 21 38.0 h N. Mb 5.1. Ms 5.6. Szechwan Province, China.	
Sep. 29.	DBN: eSSS eL F	20 20 21	53.0 58 49			20	4.3		5.7	30.3N 101.7E, H: 20 24 42.0 h N. Mb 5.1. Ms 5.4. Szechwan Province, China.	
Sep. 30.	WIT: ePKP e	02 03	29 29	17.5 21.5						21.1S 174.4W, H: 03 09 32.5 h N. Mb 5.3. Tonga Islands.	
Oct. 1.	WIT: iP	00	59	51.9	+					45.8N 26.2E, H: 00 56 25.5 h 155 km. Mb 4.6. Rumania.	
Oct. 1.	DBN: eL F WIT: iP	04 05 04	38.8 00 35	30		11	6.1		4.7	43.5N 21.5E, H: 04 32 00.2 h 3 km. Mb 4.9. Ms 4.3. Yugoslavia.	
Oct. 2.	DBN: eP eL F WIT: iP epP	00 00 01 00 00	02 41 07 02 04	22 18.3 40	-					7.5N 123.7E, H: 23 49 36.2 h 613 km. Mb 6.0. Mindanao, Philippine Islands.	

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Oct. 3.	WIT: iP	09	05	27.3	+					46.8N 45.0E, H: 08 59 57.8 h 0 km. Mb 5.8. Southwestern Russia.	
Oct. 3.	DBN: eL F WIT: eP	11.0 11 22 10 26 09								47.3N 154.0E, H: 10 14 19.8 h N. Mb 5.3. Ms 4.8. Kuril Islands.	
Oct. 3.	WIT: ePKP	18 24 25								21.5S 174.4W, H: 18 04 41.9 h 61 km. Mb 5.1. Tonga Islands.	
Oct. 3.	DBN: eL F	19 34 19 57								30.7S 72.0W, H: 18 34 09.1 h 24 km. Mb 4.8. Off coast of central Chile.	
Oct. 4.	DBN: eL F	06 26.0 06 34								39.1N 29.4E, H: 06 14 25.1 h N. Mb 4.4. Turkey.	
Oct. 4.	DBN: eP eL F WIT: eP	08 52 50 08 58.8 09 10 08 52.9			+	15			2.3	4.5 38.3N 20.2N, H: 08 48 45.9 h N. Mb 4.8. Greece.	
Oct. 5.	DBN: eL F	04 53 05 15								30.1N 130.3E, H: 04 06 23.6 h 24 km. Mb 5.0. Kyushu, Japan.	
Oct. 5.	DBN: eL F	05 37 05 53								12.5N 44.7W, H: 05 09 49.7 h N. Mb 5.0. North Atlantic Ridge.	
Oct. 5.	DBN: iP eL F WIT: eP	11 00 36 11.4 12.4 11 00 40.5			+	20			3.5	5.7 13.8N 91.1W, H: 10 48 19.1 h 89 km. Mb 5.4. Near coast of Guatemala.	
Oct. 5.	DBN: eL F	22 09 22 27								12.9N 44.9W, H: 21 42 14.1 h N. Mb 4.8. North Atlantic Ridge.	
Oct. 6.	DBN: eL F	12 14 12 50								34.3N 138.4E, H: 11 31 04.3 h 51 km. Mb 5.2. Near south coast of Honshu, Japan.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Oct. 6.	DBN: ePP ePPS eSS eSSS eL F	17 17 17 17 17 19.6	03 15 20 25.0 41	42 17 48		22			15.4	6.7	6.1S 149.8E, H: 16 42 54.3 h 59 km. Mb 5.5. New Britain region.
Oct. 6.	WIT: iP	20	34	44.0							3.3N 98.5E, H: 20 22 03.2 h 124 km. Mb 5.3. Northern Sumatra.
Oct. 6.	WIT: ePKP	23	33	25							ISC: 16.4S 178.7W, H: 23 13 55.5, h 0 km. Mb 4.9. Fiji region.
Oct. 7.	WIT: iP e	05 05	52 53	13.5 48.0	+						21.4S 177.8W, H: 05 33 08.2 h 365 km. Mb 5.0. Fiji Islands region.
Oct. 7.	WIT: ePKP	12	53	48.5							4.5S 153.1E, H: 12 34 56.4 h 86 km. Mb 5.2. New Ireland region.
Oct. 8.	DBN: eL F WIT: ePKP	03 04 03	46 26 04								38.4S 93.3W, H: 02 45 41.6 h N. Mb 5.4. Ms 5.1. West Chile Rise.
Oct. 9.	eL F WIT: iP	07 08 07	40 20 26		+						28.2N 56.0E, H: 07 18 23.6 h N. Mb 5.2. Ms 5.0. Southern Iran.
Oct. 9.	eL F WIT: eP	10 10 09	18 27 45								43.2N 146.3E, H: 09 33 23.3 h 58 km. Mb 5.3. Kuril Islands.
Oct. 10.	WIT: eP	04	36	40							35.2N 25.4E, H: 04 31 40.2 h 33 km. Mb 4.8. Crete.
Oct. 10.	DBN: eSKS ePS eL F WIT: eP e	23 23 23 24 22 22	06.0 08 32 15 55 55	05							20.1S 68.7W, H: 22 42 18.5 h 127 km. Mb 5.5. Chile-Bolivia border region.
Oct. 11.	WIT: iP	11	06	51.0	+						21.9S 179.7W, H: 10 48 09.2 h 623 km. Mb 5.1. Fiji Islands region.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Oct. 11.	WIT: e	17	56	52							No determination of epicenter.
Oct. 12.	WIT: eP	00	29	56.0	-						35.9N 73.3E, H: 00 21 14.1 h 49 km. Mb 5.2. North western Kashmir.
Oct. 12.	DBN: eL F	17 40 18 11									0.6S 121.7E, 16 45 09.5 h N. Mb 5.3. Northern Celebes.
Oct. 12.	DBN: iPP ePS eL F	18 08 20 18 17.7 18 41 19 16									1.8N 127.4E, H: 17 49 51.1 h 108 km. Mb 5.6. Halmahera.
Oct. 13.	WIT: e	03	19.7								No determination of epicenter.
Oct. 13.	DBN: iP iPP eS eL F WIT: iP ipP	04 57 50 05 00 44 05 07 28 05 19 06 52 04 57 47.4 04 57 58.5			-	8	3.3				52.8N 163.1W, H: 04 46 11.0 h 38 km. Mb 5.9. Ms 5.4. South of Alaska.
Oct. 13.	WIT: eP	05	13	21.0							35.8N 73.3E, H: 05 04 36.7 h N. Mb 5.2. North western Kashmir.
Oct. 14.	WIT: iP	00	11	21.2	-						48.4N 148.7E, H: 00 00 24.5 h 394 km. Mb 5.6. Northwest of Kuril Islands.
Oct. 14.	WIT: e	04	39	08.0							No determination of epicenter.
Oct. 15.	DBN: ePKP eL F	00 12 05 01.3 in next shock				19		1.7	5.9		32.8S 178.6W, H: 23 52 05.7 h N. Mb 4.8. Ms 5.7. South of Kermadec Islands.
Oct. 15.	DBN: eL F WIT: ePKP2	02.5 03 50 01 20 36				18		1.7	5.9		32.9N 178.4W, H: 01 00 00.0 h N. Mb 5.2. Ms 5.5. South of Kermadec Islands.
Oct. 15.	DBN: eL F WIT: e	06 49 07 47 06 05 51									No determination of epicenter.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Oct. 15.	WIT: eP	08	53	07.5						ISC: 59.6N 30.0W, H: 08 48 20.9, h 0 km. Mb 4.3. North Atlantic Ocean.	
Oct. 15.	DBN: iPKP1 ipPKP1 iPP ipPP eL F WIT: ePKP2 epPKP2	10 10 10 10 11 12 10 10	47 48 51 51 41 34 47 48	38 11 14 44 40.0 08.0	+	4	1.6			22.1S 171.3E, H: 10 28 08.3 h 101 km. Mb 5.6. Loyalty Islands region.	
Oct. 15.	DBN: eL F	22 22	13.0 24							38.1N 21.1E, H: 22 02 55.7 h 74 km. Mb 4.7. Greece.	
Oct. 16.	WIT: e	00	00	01.0						No determination of epicenter.	
Oct. 17.	WIT: e	02	07	59						No determination of epicenter.	
Oct. 17.	DBN: eL F	07 08	45 19							No determination of epicenter.	
Oct. 17.	DBN: ePP ePPP ePS eL F	21 21 21 22 24.2	42 45 52.1 18	44 12 		20		2.5	5.8	10.3S 120.5E, H: 21 23 16.2 h N. Mb 5.7. Ms 5.8. Sumba Island region.	
Oct. 18.	WIT: e	06	04	44.0(+)						No determination of epicenter.	
Oct. 18.	DBN: iPP ePS eSS eSSS eL F	18 18 18 18 19 21	38 47.5 54.0 58.0	07 15 15		20	4.3		6.1	8.5S 124.9E, H: 18 18 25.1 h N. Mb 5.7. Ms 5.9. Timor.	
Oct. 20.	DBN: iP iPP iPPP iS eSS eL F WIT: iP i	04 04 04 04 04 04 06.7 04 04	41 43 43 47 50 52.0	33 11 48 46 47 44.6(-) 49.0	+	6	6.9		26	6.1	20.6N 29.7W, H: 04 33 48.9 h N. Mb 5.7. Ms 5.8. North Atlantic Ocean.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Oct. 20.	DBN: iP iPP iPPP iS i iSS eL F WIT: eP	08 08 08 08 08 08 08 11.6 08	30 34 36 41 42 47 54 30.8	44 05 03 17 29 08 8		26		26.6	6.7	18.8N 106.7W, H: 08 17 48.6 h 38 km. Mb 5.7. Ms 6.5. Off coast of Jalisco, Mexico.	
Oct. 21.	DBN: eL F	05 05	03 21							22.3N 121.0E, H: 04 16 05.1 h 36 km. Mb 4.9. Taiwan region.	
Oct. 24.	DBN: eL F	03 04	44 20							11.5N 141.6E, H: 02 50 41.6 h 34 km. Mb 5.1. Ms 5.3. West Caroline Islands.	
Oct. 25.	DBN: eL F	01 02	34 25							43.4N 127.7W, H: 01 01 41.0 h N. Mb 5.3. Ms 5.2. Off coast of Oregon.	
Oct. 25.	DBN: iP iPP iS eL F WIT: iP	18 18 18 18 19 18	30 30 34 35.0 57 30	22 46 06 19.0	+	14		11.3	5.2	70.9N 7.0W, H: 18 25 55.4 h N. Mb 5.3. Ms 5.1. Jan Mayen Island region.	
Oct. 25.	DBN: eP i eL F WIT: eP i HEE: iS	21 21 22 22 21 21 21	58 58 00.2 12 58 58 59	11 13 18.5 31.0 09.5						44.2N 9.7E, H: 21 56 06.4 h N. Mb 5.1. Northern Italy.	
Oct. 26.	DBN: e F	00 00	24 29							ISC: 71.4N 6.0W, H: 00 13 28, h 59 km. Jan Mayen Island region.	
Oct. 26.	DBN: eL F	03 03	37.2 52							37.5N 20.2E, H: 03 29 40.0 h 35 km. Mb 4.1. Ionian Sea.	
Oct. 26.	WIT: e	04	04	52.5							

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Oct. 26.	DBN: iP eS eL F WIT: iP	17	17	44	+	18	8.3	3.3	5.7	27.4N 128.5E, H: 17 05 03.7 h 47 km. Mb 6.0. Ms 4.8. Ryukyu Islands.	
		17	28	24							
		17	50								
		18	40								
		17	17	38.5	+						
Oct. 26.	WIT: eP	17	27	28.5						52.3N 157.6E, H: 17 16 14.7 h 144 km. Mb 4.6. Kamchatka.	
Oct. 26.	WIT: iP ePP	23	07	46.3	+					14.3S 167.2E, H: 22 48 34.4 h 157 km. Mb 5.4. New Hebrides Islands.	
		23	11	06.5							
Oct. 27.	DBN: iP iPP iPPP eSS eSSS eL F WIT: ePKP	09	42	45	+	8	8.3			20.0S 168.9E, H: 09 23 08.7 h 39 km. Mb 5.7. Ms 6.2. New Hebrides Islands.	
		09	46	07							
		09	49	19							
		10	05	09							
		10	10.5								
		10.5				22		9.6	6.6		
		12.2									
		09	42	41.5							
Oct. 28.	DBN: eL F WIT: ePKP	03	26			20		7.1	6.3	7.3S 146.7E, H: 02 27 10.1 h 2 km. Mb 5.9. Ms 6.0. East New Guinea region.	
				in next shock							
		02	46	13							
Oct. 28.	DBN: eL F WIT: ePKP ePP e	04	23							15.3S 167.5E, H: 03 16 52.0 h 128 km. Mb 5.8. New Hebrides Islands.	
				06.1							
		03	35	59.5 (+)							
		03	39	05.5							
		03	39	32.0							
Oct. 29.	DBN: eL F	03	29							7.6N 36.7W, H: 03 09 24.5 h N. Mb 4.9. Ms 4.3. Central Mid-Atlantic ridge.	
		03	50								
Oct. 29.	WIT: iP	07	32	36.0	-					33.0N 137.7E, H: 07 20 38.5 h 331 km. Mb 5.5. Near south coast of Honshu, Japan.	
Oct. 30.	DBN: iP iPP iS eL F WIT: eP	14	36	20	+	20	3.9	4.7	38.3N 20.4E, H: 14 32 13.1 h N. Mb 5.3. Greece.		
		14	36	32							
		14	39	41							
		14	41.5								
		15.1									
		14	36	18							

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Oct. 30.	DBN: iPP ePKS eL F WIT: ePKP	17	09	20		25		4.2	6.1	6.3S 154.8E, H: 16 48 09.4 h 50 km. Mb 5.8. Ms 6.2. Solomon Islands.	
Oct. 31.	DBN: eL F	16	25.0							No determination of epicenter.	
Nov. 1.	DBN: eL F WIT: ePKP	07	55							20.1S 173.9W, H: 06 29 43.7 h N. Mb 5.1. Ms 5.0. Tonga Islands.	
Nov. 1.	DBN: eL F WIT: eP	16	02							41.5N 142.8E, H: 15 24 30.8 h 76 km. Mb 5.3. Hokkaido, Japan.	
Nov. 1.	WIT: iP	16	51	47.6	-					43.4N 146.3E, H: 16 39 50.7 h 48 km. Mb 4.8. Kuril Islands.	
Nov. 1.	WIT: ePKP	21	41	16						6.3S 144.5E, H: 21 22 15.4 h 39 km. Mb 5.4. Ms 4.9. New Guinea.	
Nov. 1.	DBN: eL F WIT: eP	22	27							26.4N 96.3E, H: 21 53 46.0 h 97 km. Mb 5.3. Burma.	
Nov. 2.	DBN: iP eL F WIT: iP iPP	01	35	13						49.9N 78.8E, H: 01 26 57.6 h 0 km. Mb 6.2. Eastern Kazakh SSR.	
Nov. 2.	DBN: eL F	10	49							6.4S 131.2E, H: 09 51 47.0 h N. Mb 5.7. Ms 5.6. Tanimbar Islands region.	
Nov. 2.	DBN: eP iPKP i iPP eSKS eSKKS ePS ePPS eSS eSSS eL F WIT: ePKP i i HEE: ePKP	20	12	29	+	8	58.5			20.0S 168.8E, H: 19 55 22.1 h 32 km. Mb 6.3. Ms 7.0. Loyalty Islands.	
		20	14	58	+						
		20	16	00							
		20	18	21							
		20	21	36							
		20	24	50							
		20	28	40							
		20	30	51							
		20	37.0								
		20	42.0								
		21.1				22		134	7.7		
		01.5									
		20	14	54.5	+						
		20	14	57.2	-						
		20	18	34.5							
		20	15	00							

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Nov.	2. WIT: ePKP	21	28	13							20.3S 169.0E, H: 21 08 37.3 h 21 km. Mb 5.0. New Hebrides Islands.
Nov.	3. WIT: e	03	38	40.0							No determination of epicenter.
Nov.	3. WIT: iPKP	16	34	37.8	+						20.1S 168.8E, H: 16 15 03.1 h 26 km. Mb 5.4. Loyalty Islands.
Nov.	3. DBN: eL F	17 17	10 48								13.4S 111.4W, H: 16 13 42.0 h N. Mb 5.1. Ms 5.6. Northern Easter Island Cordillera.
Nov.	4. DBN: eL F WIT: eP	00 01 00	22 31 06	38		15			8.1	5.7	34.2N 69.7E, H: 23 57:59.4 h 20 km. Mb 5.4. Ms 5.4. Afghanistan.
Nov.	4. DBN: iPKP i iPP ePKS i ePPS eSS eSSS eL F WIT: iPKP i	04 04 04 04 04 04 04 04 04 04 04 04 04 04 04 04 04 04 04 04	09 10 12 13 23 25 32.0 37.0 59 06.8 09 09	29 54 54 07 00 16 37.0 59 28.1 39.2	+						20.1S 169.1E, H: 03 49 56.6 h 53 km. Mb 5.7. New Hebrides Islands.
Nov.	4. DBN: eL F WIT: ePKP	10 11.9 10	47 11.9 06	06							4.8S 144.6E, H: 09 47 19.9 h 85 km. Mb 5.6. Near north coast of New Guinea.
Nov.	4. WIT: iPKP	11	26	33.2	+						20.2S 178.0W, H: 11 07 49.7 h 554 km. Mb 4.7. Fiji Islands region.
Nov.	4. DBN: iSKS iSP eSS eL F WIT: ePKP	22 22 22 22 23 21	00 03 09 28 00 54.2	33 36 35							8.2S 112.3E, H: 21 36 01.7 h 126 km. Mb 6.0. Java.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Nov. 5.	DBN: iPKP	00	08	00	+	8	3.5				20.2S 168.9E, H: 23 48 22.3 h 21 km. Mb 5.2. Ms 6.1. Loyalty Islands.
	i	00	09	07	+						
	ePP	00	11	28							
	eSSS	00	35.3								
	eL	00	58			21	3.7		6.2		
	F	02.6									
	WIT: iPKP	00	07	58.0							
Nov. 5.	WIT: ePKP	00	24.7								9.7S 122.2E, H: 00 05 50.2 h N. Mb 5.8. Ms 5.9. Sawu Sea.
Nov. 5.	WIT: iPKP	01	19	08.3	-						20.3S 168.9E, H: 00 59 32.1 h 21 km. Mb 4.9. Loyalty Islands.
Nov. 5.	DBN: eS	19	34	36							35.1N 24.9E, H: 19 25 42.4 h N. Mb 5.2. Ms 5.4. Crete.
	eL	19	38.9								
	F	19	45								
	WIT: iP	19	30	34.6	+						
Nov. 5.	DBN: eL	19	58								No determination of epicenter.
	F	20.5									
Nov. 5.	WIT: ePKP	20	26	34							5.4S 146.7E, H: 20 08 03.2 h 230 km. Mb 5.5. East New Guinea region.
Nov. 5.	DBN: ePKP	22	26	40							20.1S 168.8E, H: 22 07 02.2 h 25 km. Mb 5.3. Loyalty Islands.
	WIT: ePKP	22	26	37.0							
Nov. 8.	DBN: eL	15	12			20	3.6		5.7		23.9N 121.6E, H: 14 25 43.3 h 27 km. Mb 5.5. Ms 5.2. Taiwan.
	F	16.6									
	WIT: eP	14	38	19.5							
Nov. 8.	DBN: eL	21	57								6.9N 82.2W, H: 21 17 54.5 h N. Mb 5.0. South of Panama.
	F	22	15								
Nov. 8.	HEE: e(P)	21	57	(07)							No determination of epicenter.
Nov. 9.	WIT: iPKP	03	07	48.5							21.4S 179.1W, H: 02 49 03.5 h 542 km. Mb 4.7. Fiji Islands region.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Nov. 9.	WIT: iPKP	08	28	22.8	-						20.9S 179.0W, H: 08 09 44.3 h 606 km. Mb 5.7. Fiji Islands region.
Nov. 9.	WIT: ePKP	16	56	36							19.6S 169.3E, H: 16 36 55.2 h 25 km. Mb 5.6. Ms 5.2. New Hebrides Islands.
Nov. 9.	DBN: iP ePP eS eSS eL F WIT: eP	18 18 19 19 19.4 20.4 18	53 57 04 10.3 10.3 10.3 53	54 16 38 10.3 10.3 10.3 52.5	+	20		35.5	6.6		23.9N 121.6E, H: 18 41 14.5 h N. Mb 5.7. Ms 6.1. Taiwan.
Nov. 10.	WIT: iP	07	52	40.0							44.5N 147.4E, H: 07 40 55.8 h 118 km. Mb 5.6. Kuril Islands.
Nov. 10.	WIT: iP	08	40	20.2							54.6N 160.5E, H: 08 29 13.4 h 110 km. Mb 5.2. Near east coast of Kamchatka.
Nov. 10.	DBN: eL F	15.7 16	14								15.7N 95.8W, H: 14 56 52.5 h 37 km. Mb 5.4. Ms 5.6. Near coast of Oaxaca, Mexico.
Nov. 12.	DBN: eL F	03 03	28 45								12.3N 144.1E, H: 02 25 57.0 h 37 km. Mb 5.5. Ms 5.0. South of Mariana Islands.
Nov. 12.	DBN: iP i iPP i iS iSS eL F WIT: iP i	18 18 18 18 18 18 18 18 19.5 18 18	05 06 07 07 12 15 19 19 05 05	24 04 17 56 13 38 19 19 15.1 55.0	- +	6 16	4.1		8.2 5.7		38.4N 73.3E, H: 17 56 44.4 h N. Mb 6.0. Ms 5.7. Tadzhik-Sinkiang border region.
Nov. 13.	DBN: eL F	05.3 06.5				24			58	6.9	d.b.m. 15.6N 95.0W, H: 04 43 45.2, h N. Mb 5.5. Ms 6.5. Near coast of Oaxaca, Mexico.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Nov. 14.	DBN: eL F	00 15 01 00									12.5N 95.2E, H: 23 34 12.8 h N. Mb 5.4. Ms 5.5. Andaman Islands region.
Nov. 14.	DBN: iP iS eL F WIT: eP	04 36 20 04 40 03 04 41.0 05 15 04 36 09			14			8.1	5.1		71.0N 7.9.W, H: 04 31 42.8 h N. Mb 5.1. Ms 5.1. Jan Mayen Island region.
Nov. 14.	DBN: eSKS eSS eL F	22 52.4 23 01 30 23 22 24.2									1.1S 126.9E, H: 22 27 04.9 h 45 km. Mb 5.4. Ms 5.2. Molucca Sea.
Nov. 15.	DBN: eL F	17 33 18 31									49.0S 123.6E, H: 16 19 31.1 h N. Mb 5.4. Ms 5.8. South of Australia.
Nov. 16.	WIT: iP e	12 51 23.7 12 51 55		+							35.7N 69.9E, H: 12 43 05.5 h 124 km. Mb 5.6. Hindu Kush region.
Nov. 17.	DBN: e eL F	02 50.5 02 52.8 03 07									37.4N 20.3E, H: 02 42 35.5 h 41 km. Mb 4.3. Ionian Sea.
Nov. 17.	HEE: e	22 09 19									No determination of epicenter.
Nov. 19.	DBN: eL F	05 15 05 37									13.0N 88.5W, H: 04 35 24.1 h 73 km. Mb 5.6. El Salvador.
Nov. 19.	DBN: eL F	17 55 18 27									76.6N 106.9W, H: 17 33 47.9 h N. Mb 4.9. Ms 5.3. Queen Elizabeth Islands.
Nov. 19.	DBN: eL F	20 24.0 20 55									80.4N 2.5.W, H: 20 10 52.3 h N. Mb 5.4. Ms 5.2. North of Svalbard.
Nov. 20.	WIT: iPKP	13 26 21.5									24.7S 177.4W, H: 13 06 47.5 h 152 km. Mb 5.2. South of Fiji Islands.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Nov. 21.	WIT: iPKP	01	42	21.8	+						17.6S 179.0W, H: 01 23 46.6 h 563 km. Mb 5.1. Fiji Islands region.
Nov. 21.	DBN: eL F	03	32	04.1		20		14.1		6.3	d.b.m. 23.8N 121.6E, H: 02 47 14.2, h 14 km. Mb 5.7. Taiwan.
	WIT: eP	02	59	56							
Nov. 21.	DBN: eL F	04	57	06.6		20		12.5		6.6	d.b.m. 6.5S 154.3E, H: 03 59 08.5, h 34 km. Mb 5.4. Ms 6.4. Solomon Islands.
Nov. 21.	WIT: i	08	35	19.5	+						No determination of epicenter.
Nov. 21.	DBN: eL F	10	29	10 55							76.5N 106.7W, H: 10 06 29.6 h N. Mb 4.8. Ms 5.2. Queen Elizabeth Islands.
Nov. 21.	WIT: iP	17	13	31.1	+						52.4N 173.6E, H: 17 01 55.3 h 50 km. Mb 5.5. Near Islands, Aleutian Is.
Nov. 22.	DBN: eL F	15	05	15 32							15.4S 167.2E, H: 13 51 10.4 h 43 km. Mb 5.4. Ms 5.7. New Hebrides Islands.
Nov. 22.	WIT: i	19	03	30.5	+						No determination of epicenter.
Nov. 24.	DBN: eL F	01	45	01 51							38.8N 22.3E, H: 01 35 27.1 h N. Mb 4.3. Greece.
Nov. 24.	DBN: eL F	03	57.6	04 09							39.5N 20.3E, H: 03 48 35.1 h 11 km. Mb 5.3. Greece-Albania border region.
	WIT: eP	03	52	32							
Nov. 24.	DBN: eL F	13	57	14 35							11.6N 85.4E, H: 13 19 12.4 h N. Mb 5.4. Ms 5.2. Bay of Bengal.
Nov. 25.	DBN: iP eS eSS eL F	03	14	49							15.5N 95.1W, H: 03 03 20.2 h N. Mb 5.1. Ms 5.3. Near coast of Oaxaca, Mexico.
	WIT: eP	03	14	56							

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Nov. 25.	DBN: eL F	14	14	14.6							56.3N 123.5E, H: 13 42 34.4 h N. Mb 5.1. Eastern Russia.
Nov. 25.	DBN: eS eL F WIT: eP	20	14.2	20 17 20 51 20 09.6							80.3N 2.4W, H: 20 03 29.3 h N. Mb 5.6. North of Svalbard.
Nov. 26.	WIT: ePKP e	04	41	34.5 04 43 53.5							22.1S 179.5W, H: 04 22 51.9 h 599 km. Mb 5.5. South of Fiji Islands.
Nov. 26.	WIT: e	05	04	39.0							No determination of epicenter.
Nov. 26.	DBN: eS eL F	08	12	52 08 16.0 08 27							35.6N 36.5W, H: 08 00 43.6 h N. Mb 5.1. North Atlantic Ridge.
Nov. 26.	DBN: eL F	14	10	15.0							32.6S 178.0W, H: 12 41 51.3 h 5 km. Mb 5.3. South of Kermadec Islands.
Nov. 26.	WIT: iP	15	03	57.3 +							52.1N 158.8E, H: 14 52 31.1 h 47 km. Mb 5.2. Near east coast of Kamchatka.
Nov. 26.	WIT: ePKP e	15	51	31.0 15 51 42.5							24.2S 175.0W, H: 15 31 38.0 h N. Mb 5.5. South of Tonga Islands.
Nov. 26.	DBN: iP eL F WIT: e eL	16	05	13 16 09.0 16 18 16 05 48.5 16 09.3		15			8.1	4.7	43.0N 13.4E, H: 16 03 11.9 h N. Mb 4.9. Central Italy.
Nov. 26.	DBN: eL F	16	56	17 23							No determination of epicenter.
Nov. 27.	DBN: eL F	03	34	04 06		20		2.1		5.6	20.2N 121.5E, H: 02 45 41.8 h N. Mb 5.4. Philippine Islands region.
Nov. 27.	DBN: eL F	07.6		08.1							0.6N 126.2E, H: 06 42 19.6 h 24 km. Mb 5.7. Ms 5.2. Molucca Passage.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Nov. 27.	DBN: iSP i eSS eSSS eL F	15 15 15 15 16.2 16.8	45 46 51.7 56.1	17 24							5.3S 126.6E, H: 15 17 40.8 h 425 km. Mb 5.8. Banda Sea.
Nov. 27.	WIT: e	23	31	23.0							No determination of epicenter.
Nov. 29.	WIT: iPKP	02	33	21.3	+						17.5S 173.9W, H: 02 13 50.8 h 80 km. Mb 5.0. Tonga Islands.
Dec. 1.	DBN: eL F WIT: iP	12 12 11	00 16 46								35.4 57.9E, H: 11 39 03.6 h 33 km. Mb 5.4. Ms 5.2. Iran.
Dec. 2.	DBN: iP iPP ePPP iSKS iSKKS iPPS iSS eSSS eL F WIT: iP HEE: eP	00 00 00 00 00 00 00 00 01 05.5 00 00	33 38 40 44 45 48 52 57.0 10 5	45 12 28 33 06 04 34	+						d.b.m. 6.5N 126.6E, H: 00 19 47.2, h N. Mb 6.3. Ms 7.4. Mindanao, Philippine Islands.
						27		940		8.3	
Dec. 2.	DBN: eL F	06 07	42 20								d.b.m. 5.6N 127.3E, H: 05 48 19.5, h N. Mb 5.4. Ms 5.3. Philippine Islands region.
Dec. 2.	DBN: eL F	13 13	40.0 52								35.4N 27.1E, H: 13 28 24.4 h 55 km. Mb 5.1. Dodecanese Islands.
Dec. 2.	DBN: eL F	22 23	56 34								36.9S 78.4E, H: 21 58 49.8 h N. Mb 5.2. Ms 5.9. Mid Indian Rise.
Dec. 3.	DBN: eL F	02 02.8	19								5.6N 127.5E, H: 01 26 57.8 h 60 km. Mb 5.0. Philippine Islands region.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 3.	DBN: eL F	03 04	57 41								6.0N 127.2E, H: 03 04 33.1 h 65 km. Mb 5.0. Philippine Islands region.
Dec. 3.	WIT: iPKP	09	13	08.0							17.8S 178.5W, H: 08 54 36.1 h 604 km. Mb 4.6. Fiji Islands region.
Dec. 3.	DBN: eL F	20 21.1	17		21		4.0		5.9		5.8N 127.3E, H: 19 25 32.4 h 58 km. Mb 5.3. Philippine Islands region.
Dec. 3.	DBN: eL F	22 23.3	54								31.9N 131.5E, H: 22 08 32.0 h 13 km. Mb 5.3. Kyushu, Japan.
Dec. 4.	DBN: iP iPP iPPP iS iPS iPPS iSS eSSS eL F WIT: eP e(S) HEE: iP	10 10 10 10 10 10 10 10 10.9 15.0 10 10 10	28 32 34 39 40 40 44 48	48 15 07 11 13 38 40 08	+	25			390	7.8	33.2N 140.7E, H: 10 16 12.0 h 66 km. Mb 6.6. South of Honshu, Japan.
Dec. 4.	WIT: eP	15	03	29.5							33.2N 140.6E, H: 14 50 56.8 h 59 km. Mb 5.3. South of Honshu, Japan.
Dec. 4.	DBN: eL F	18 19	46 20								1.5S 136.7E, H: 17 51 22.4 h N. Mb 6.0. Ms 5.7. West New Guinea region.
Dec. 4.	WIT: ePKP	21	57	28							22.1S 179.8W, H: 21 38 46.3 h 611 km. Mb 4.7. South of Fiji Islands.
Dec. 5.	DBN: eL F	03 04	46 14								d.b.m. 1.6S 136.6E, H: 02 46 20.7, h N. Mb 5.4. Ms 5.4. West New Guinea region.
Dec. 5.	DBN: eL F	14 15	48 17								d.b.m. 33.5N 141.2E, H: 14 03 38.3, h 55 km. Mb 5.2. Off east coast of Honshu, Japan.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 5.	WIT: iPKP	19	51	19.5	+					23.6S 175.9W, H: 19 31 29.2 h N. Mb 5.3. Tonga Islands region.	
Dec. 5.	DBN: eL F	22	55	23.4						d.b.m. 1.5S 136.7E, H: 21 59 54.3, h N. Mb 5.5. Ms 5.5. West New Guinea region.	
Dec. 6.	DBN: eL F	02	41	03.2						d.b.m. 3.0S 139.1E, H: 01 43 24.8, h N. Mb 5.4. Ms 6.0. West New Guinea.	
Dec. 6.	WIT: eP	23	53	40.0	-					40.2N 143.7E, H: 23 41 29.2 h 17 km. Mb 5.3. Off east coast of Honshu, Japan.	
Dec. 7.	DBN: eL F	12	41	13 13						2.9S 139.1E, H: 11 41 24.1 h 20 km. Mb 5.6. Ms 5.8. Near north coast of West New Guinea.	
Dec. 7.	DBN: eL F	15	46	16.1						3.7N 128.5E, H: 14 50 15.0 h 53 km. Mb 5.4. North of Halmahera.	
Dec. 7.	WIT: iP	19	30	26.0						53.1N 171.0E, H: 19 18 53.0 h N. Mb 5.5. Near Islands, Aleutian Is.	
Dec. 8.	DBN: eL F	04	54	05 14						32.5N 141.7E, H: 04 11 42.7 h 38 km. Mb 5.0. South of Honshu, Japan.	
Dec. 8.	DBN: eL F	08	34	09 20						1.9S 99.7E, H: 07 48 42.0 h N. Mb 5.5. Ms 5.6. Southern Sumatra.	
Dec. 8.	DBN: eL F	11	10	11 49						5.7N 127.4E, H: 10 18 12.8 h 64 km. Mb 5.0. Philippine Islands region.	
Dec. 8.	DBN: eL F	17	48	18 34						7.2N 127.1E, H: 16 55 40.4 h 57 km. Mb 5.4. Philippine Islands region.	

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 8.	WIT: iPKP	18	21	05.0							21.4S 179.2W, H: 18 02 23.5 h 605 km. Mb 5.4. Fiji Islands region.
Dec. 8.	DBN: eL F	19 20.1	00			21			2.9	5.8	1.9S 99.8E, H: 18 13 03.0 h 20 km. Mb 5.8. Ms 5.9. South Sumatra.
Dec. 8.	DBN: eL F	21 22	10 23			20			2.5	5.7	5.7N 127.3E, H: 20 17 12.9 h 63 km. Mb 5.4. Philippine Islands region.
Dec. 8.	WIT: e	21	55	00							No determination of epicenter.
Dec. 9.	DBN: eL F	01 01	00 34								5.6N 127.4E, H: 00 07 45.8 h 68 km. Mb 5.1. Philippine Islands region.
Dec. 9.	WIT: eP e	06 06	18 18	44.0 57.4							33.1N 140.8E, H: 06 06 07.6 h 51 km. Mb 5.3. South of Honshu, Japan.
Dec. 9.	DBN: eP eS eL F WIT: eP	06 07 07 08 06	54.1 01 09.3 09 54			16			8.2	5.8	15.2N 45.2W, H: 06 44 40.4 h N. Mb 5.7. Ms 5.7. North Atlantic Ridge.
Dec. 9.	DBN: eL F	13 14	51 15								7.4N 126.9E, H: 12 55 47.5 h 66 km. Mb 5.2. Mindanao, Philippine Islands.
Dec. 10.	WIT: iP e	03 03	47 47	23.7 (-) 27.0							43.1N 141.5E, H: 03 35 48.2 h 172 km. Mb 5.1. Hokkaido, Japan.
Dec. 10.	WIT: iP ePP	04 04	35 36	01.2 + 49							49.8N 78.1E, H: 04 26 57.7 h 0 km. Mb 5.7. Eastern Kazakh SSR.
Dec. 10.	WIT: iP	04	35	13.7 +							50.1N 78.8E, H: 04 27 08.4 h 0 km. Eastern Kazakh SSR.
Dec. 10.	WIT: eP	04	45	38							17.5N 93.6W, H: 04 33 37.2 h 211 km. Mb 5.2. Chiapas, Mexico.
Dec. 10.	WIT: e	07	47	09.0							No determination of epicenter.

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 15.	WIT: eP	06	27	57.0							33.3N 141.3E, H: 06 15 20.1 h 35 km. Mb 5.2. Off east coast of Honshu, Japan.
Dec. 15.	DBN: eL F	07 07.5	00								29.2S 112.2W, H: 05 52 15.0 h N. Mb 4.7. Ms 5.3. Easter Island region.
Dec. 16.	WIT: ePKP	04	24	23							17.8S 178.6W, H: 04 05 49.2 h 557 km. Mb 5.0. Fiji Islands region.
Dec. 16.	DBN: eL F WIT: iPKP	12 13 11	33 08	17.5	-						7.0S 155.8E, H: 11 30 18.6 h 79 km. Mb 5.8. Solomon Islands.
Dec. 16.	HEE: e	18	09	13							No determination of epicenter.
Dec. 17.	DBN: iP iS eSS eSSS eL F WIT: iP	00 00 00 00 00 02.2	30 40 46 49.3 55	33 38 12 49.3	+	22		10.3	6.2		44.7N 149.2E, H: 00 18 33.8 h 50 km. Mb 5.7. Ms 5.8. Kuril Islands.
Dec. 17.	WIT: eP	06	36	49.0							44.6N 149.4E, H: 06 24 51.9 h N. Mb 4.9. Kuril Islands.
Dec. 17.	WIT: eP	12	49	35.5							34.3N 26.2E, H: 12 44 30.3 h 35 km. Mb 4.7. Crete.
Dec. 17.	WIT: ePKP	18	19	49.0							5.5S 153.2E, H: 18 00 50.2 h 44 km. Mb 5.5. Ms 5.1. New Ireland region.
Dec. 17.	WIT: eP	21	02	52							1.4S 16.0W, H: 20 53 02.9 h N. Mb 5.1. Ms 5.1. North of Ascension Island.
Dec. 18.	DBN: eL F WIT: eP	01 02 01	53 16	20.0							16.6S 28.1E, H: 01 18 54.2 h 2 km. Mb 5.2. Ms 5.7. Zambia.
Dec. 18.	WIT: ePKP i	07 07	12 12	19.0 23.9	- +						22.2S 179.8W, H: 06 53 39.6 h 591 km. Mb 5.4. South of Fiji Islands.

SEISMOLOGICAL BULLETIN

Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 10.	WIT: ePKP	08	18	27.5	+					23.9S 175.8W, H: 07 58 35.5 h N. Mb 5.1. Tonga Islands region.	
Dec. 10.	DBN: eP eS eL F WIT: eP i	18 18 19 20.2 18 18	38 48 02 38 38	12 16 05.0 10.2	 + -	22	9.6	6.1		44.8N 149.4E, H: 18 26 07.1 h 13 km. Mb 6.0. Ms 5.8. Kuril Islands.	
Dec. 10.	WIT: ePKP	22	27	21.5						18.4S 177.9W, H: 22 08 48.4 h 609 km. Mb 4.6. Fiji Islands region.	
Dec. 12.	WIT: ePKP	05	59	04.5						22.9S 176.3W, H: 05 39 20.4 h 70 km. Mb 5.0. South of Fiji Islands.	
Dec. 12.	WIT: iP	09	15	58.0	+					44.1N 151.0E, H: 09 03 56.5 h 38 km. Mb 5.7. Kuril Islands region.	
Dec. 12.	DBN: eL F	18 19	37 00							6.5N 126.5E, H: 17 46 47.8 h 3 km. Mb 5.3. Mindanao, Philippine Islands.	
Dec. 12.	WIT: ePKP	20	07	24.0						23.4S 179.9W, H: 19 48 29.1 h 491 km. Mb 4.6. South of Fiji Islands.	
Dec. 13.	WIT: e	03	04	15.0						41.6N 24.0E, H: 02 58 51.6 h 29 km. Mb 4.5. Greece-Bulgaria border region.	
Dec. 14.	WIT: ePKP	08	57	04.5						19.7S 178.1W, H: 08 38 09.1 h 448 km. Mb 4.8. Fiji Islands region.	
Dec. 14.	DBN: eL F WIT: eP	18 18 17	00.1 03 54	 24.5						38.2N 20.2E, H: 17 50 21.7 h 10 km. Mb 4.7. Greece.	
Dec. 14.	DBN: eL F WIT: eP	21.5 21.9 21	 02	 25						1.3S 89.3E, H: 20 49 34.8 h N. Mb 5.4. Ms 5.2. South Indian Ocean.	

SEISMOLOGICAL BULLETIN



Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 18.	DBN: eS eL F	14	21	30 46 15.8							1.8S 99.6E, H: 13 57 03.8 h 33 km. Mb 5.6. Ms 5.6. Southern Sumatra.
Dec. 19.	DBN: eL F	01	15	01 34							6.2S 148.9E, H: 00 12 11.7 h 64 km. Mb 5.0. New Britain region.
Dec. 19.	DBN: eL F	11.2		11.9							52.0N 169.7E, H: 10 33 49.0 h 44 km. Mb 5.0. Fox Islands, Aleutian Is.
Dec. 19.	WIT: ePKP	16	07	20							22.2S 179.8W, H: 15 48 34.8 h 570 km. Mb 4.7. South of Fiji Islands.
Dec. 19.	DBN: eL F	16	13	17 00							6.1N 126.6E, H: 15 22 22.2 h 14 km. Mb 5.0. Ms 5.2. Mindanao, Philippine Islands.
Dec. 19.	DBN: eL F	19	47.0	20 04							35.5N 27.8E, H: 19 34 31.4 h 54 km. Mb 4.6. Dodecanese Islands.
Dec. 20.	WIT: iPKP e	18	12	00.5 18	+						21.7S 179.6W, H: 17 53 19.4 h 612 km. Mb 5.4. Fiji Islands region.
Dec. 20.	WIT: iPKP	19	16	10.7	-						21.8S 179.8W, H: 18 57 32.3 h 645 km. Mb 4.9. Fiji Islands region.
Dec. 20.	WIT: iPKP	21	31	07.4	-						22.4S 179.4E, H: 21 12 22.1 h 567 km. Mb 4.5. South of Fiji Islands.
Dec. 21.	WIT: ePKP	01	25	05.5							21.8S 178.9W, H: 01 06 22.6 h 587 km. Mb 4.7. Fiji Islands region.
Dec. 21.	HEE: i i	22	46	51.5 53.5							No determination of epicenter.
Dec. 22.	WIT: e	01	13	17.5							No determination of epicenter.
Dec. 22.	DBN: eL F	01	52.0	02 04							23.2N 120.7E, H: 01 04 56.4 h N. Mb 4.9. Taiwan.

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Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
1972											
Dec. 22.	WIT: ePKP	09	13	35.5							7.2S 127.7E, H: 08 55 10.9 h 108 km. Mb 6.0. Banda Sea.
Dec. 22.	DBN: ePKP	12	37	38							55.4S 28.2W, H: 12 19 00.1 h N. Mb 5.8. Ms 6.4. South Sandwich Islands region.
	iPP	12	38	08							
	iSKS	12	44	13							
	iS	12	46	06							
	iPS	12	47	48							
	iPPS	12	48	48							
	iSS	12	53	31							
	iSSS	12	57	40							
	eL	13	04.5		20		21.5		6.7		
	F	in next shock									
	WIT: ePP	12	38	20.0							
Dec. 22.	DBN: eL	14	30								No determination of epicenter.
	F	15	35								
Dec. 22.	DBN: eL	17	36								16.0S 172.4W, H: 16 22 08.9 h N. Mb 5.7. Ms 6.0. Samoa Islands region.
	F	18	13								
	WIT: ePKP	16	41	47							
Dec. 23.	WIT: eP	02	29	26.0							51.3N 179.1E, H: 02 17 40.9 h 45 km. Mb 5.2. Ms 4.9. Rat Islands, Aleutian Is.
Dec. 23.	DBN: eP	06	42.0								12.4N 86.1W, H: 06 29 42.5 h 5 km. Mb 5.6. Ms 6.2.
	eS	06	52	16							Nicaragua.
	eL	07	03.0		24		12.4		6.3		Number of dead estimated to be from 4000 to 6000.
	F	08.6									
	WIT: eP	06	42	08.0							
Dec. 24.	WIT: e	02	10	12							No determination of epicenter.
Dec. 25.	WIT: ePKP	03	52	10							14.5S 167.8E, H: 03 32 45.0 h 26 km. Mb 5.6.
	i	03	52	14.0 +							New Hebrides Islands.
Dec. 25.	DBN: eL	06	18								55.5S 27.8W, H: 05 18 29.1 h N. Mb 5.2. Ms 5.7. South Sandwich Islands region.
	F	06	42								

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 25.	DBN: eP eS eL F WIT: iP i i i	19 19 19 20.1 19 19 19 19	07 17 32 07 07 07 07	24 14 20.0 24.7 31.8 36.1	+					d.b.m. 53.0N 159.4E, H: 18 55 58.1, h 52 km. Mb 5.7. Near east coast of Kamchatka.	
Dec. 27.	DBN: iS eL F	23 23 24.7	14 20.5 24.7	24		18			34.0	6.3	d.b.m. 76.8N 107.0W, H: 22 59 29.7, h N. Mb 5.0, Ms 6.0. Queen Elizabeth Islands.
Dec. 28.	DBN: eL F WIT: ePKP i	03 04.9 03 03	59 00 00	32.0 39.2	-						d.b.m. 21.5S 169.9E, H: 02 40 53.0, h 28 km. Mb 5.6. Ms 5.6. Loyalty Islands region.
Dec. 28.	DBN: eL F	06 07.7	46 07.7								5.6N 127.1E, H: 05 54 10.6 h 70 km. Mb 5.8. Philippine Islands region.
Dec. 28.	WIT: iP i	09 09	19 19	28.9 39.6	+						20.5S 169.4E, H: 08 59 55.4 h 47 km. Mb 5.5. New Hebrides Islands.
Dec. 28.	DBN: eSS eL F	14 14 15	54.5 57.3 26			16			8.2	5.7	76.8N 106.3W, H: 14 36 07.3 h N. Mb 4.8. Ms 5.2. Queen Elizabeth Islands.
Dec. 28.	DBN: eL F	17 17	21 45								34.7N 70.4E, H: 16 57 45.0 h 63 km. Mb 5.6. Afghanistan.
Dec. 29.	WIT: ePKP	09	06 02								4.9S 152.4E, H: 08 47 07.1 h 64 km. Mb 5.5. New Britain region.
Dec. 29.	DBN: ePKP eL F WIT: iP	19 20 21 19	25 20 19 25	02 00.9							21.6S 169.7E, H: 19 05 23.4 h N. Mb 5.4. Loyalty Islands region.
Dec. 30.	WIT: ePg HEE: ePg eSg	05 05 05	34 34 34	12.5 09.3 23.2							B.C.I.S: 51.8N 6.1E, H: 05 33 51, Netherlands-Germany border region. DBN: 51.8N 5.8E, H: 05 33 52, Eastern Netherlands.

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Date 1972	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
Dec. 30.	WIT: e	05	48	46.6	-					51.6N 5.7E, H: 05 48 28.4 h N. Felt in Nijmegen area, Netherlands.	
	iPg	05	48	47.2							
	i	05	48	49.0							
	i	05	48	51.7							
	iSg	05	48	59.3							
	HEE: iPg	05	48	43.5							
	iSg	05	48	57.3							
Dec. 30.	DBN: eL	06	32.0							47.2N 27.4W, H: 06 22 03.0 h N. Mb 4.7. North Atlantic Ridge.	
	F	06	44								
Dec. 31.	WIT: e	07	57	59.0						No determination of epicenter.	
Dec. 31.	WIT: e	08	00	40.7	-					51.8N 5.8E, H: 08 00 21.4 h N. Felt in Nijmegen area, Netherlands.	
	ePg	08	00	41.4							
	eSg	08	00	53.3							
	HEE: iPg	08	00	37.9							
	eSg	08	00	51.2							