

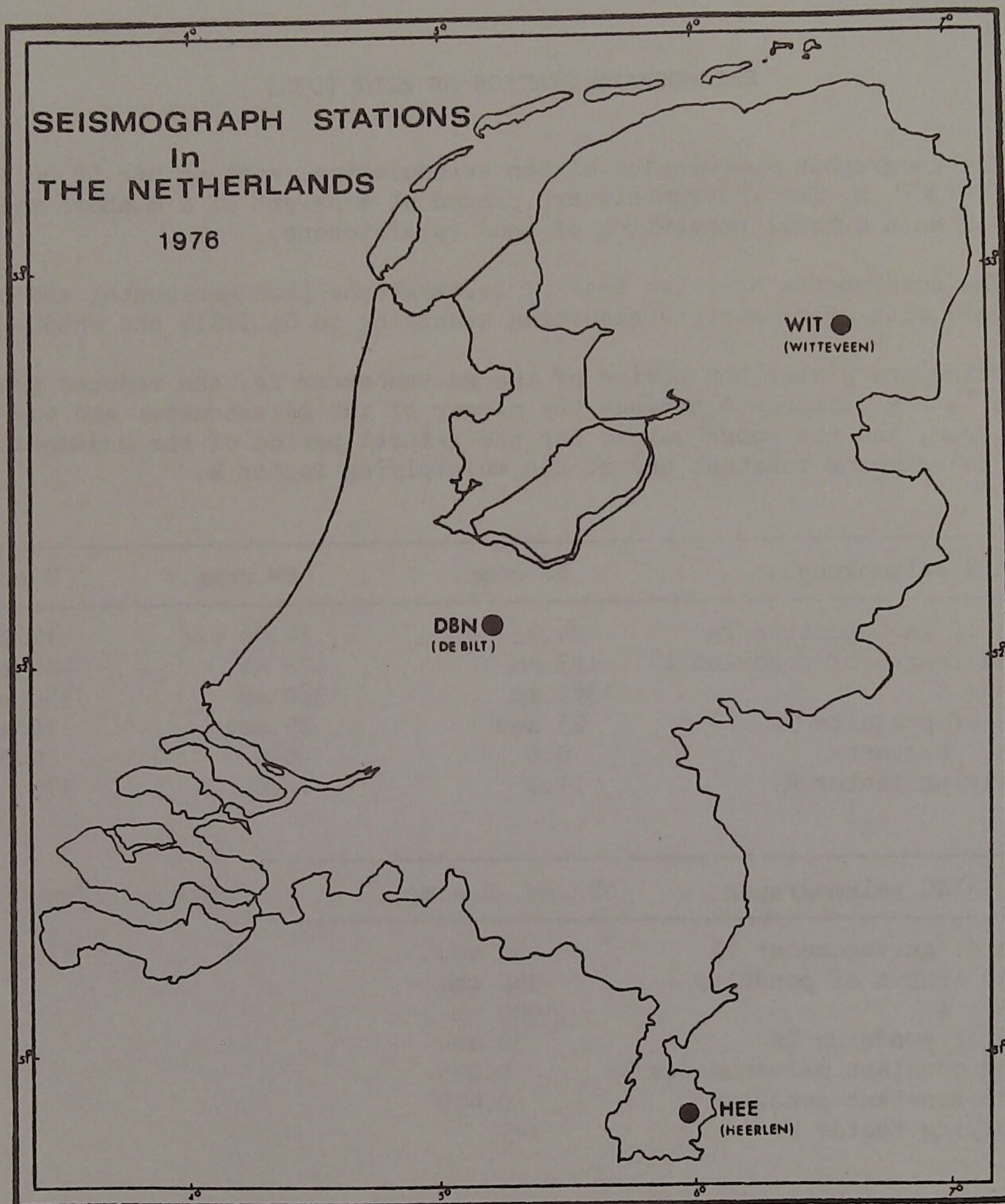
KONINKLIJK NEDERLANDS
METEOROLOGISCH INSTITUUT

SEISMOLOGICAL BULLETIN
of the seismograph stations
in The Netherlands

Volume 64
1976

De Bilt 1980

Publicatienummer K.N.M.I. 108-64



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
WIT	52°48'48"	6°40'11"	17 m

SEISMOGRAPH STATION DE BILT (DBN)

The geographic co-ordinates of the seismological station are $52^{\circ}06'10''\text{N}$ and $5^{\circ}10'36''\text{E}$. 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		

From April a TELEDYNE SL-210 LPZ seismometer recording on magnetic tape is operative.

The maximum magnification is 640 for a period of about 2 seconds.

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 instruments, a horizontal seismograph (EW-component, $M = 450$ kg), and one vertical WILLMORE seismograph, are placed at a height of 115 m above mean sealevel on a subsoil consisting of loess.

The mean values of the constants for the horizontal seismograph are:

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

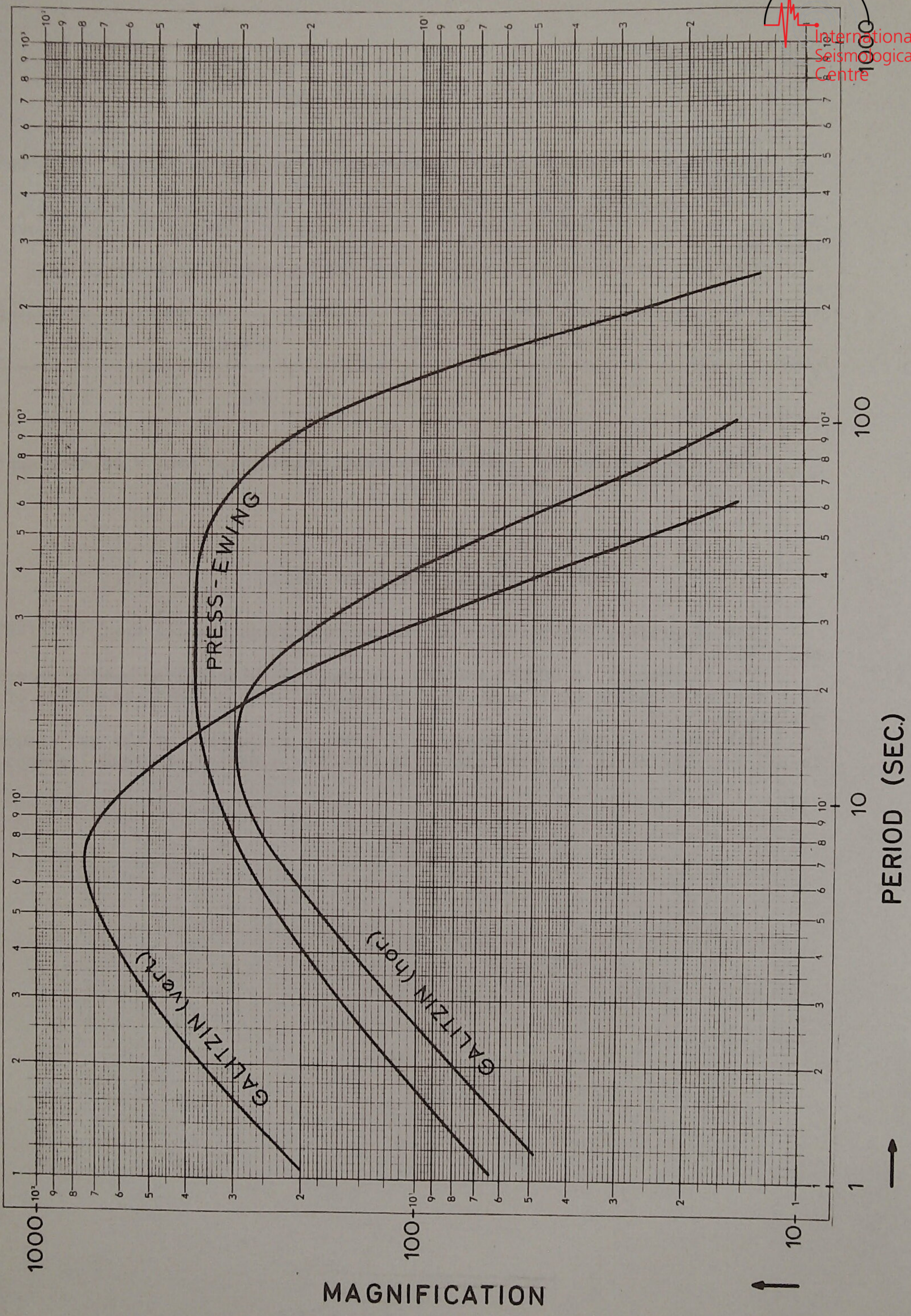
The constants for the vertical WILLMORE seismograph are: T seismograph 1.7 sec., maximum amplification 25.000.

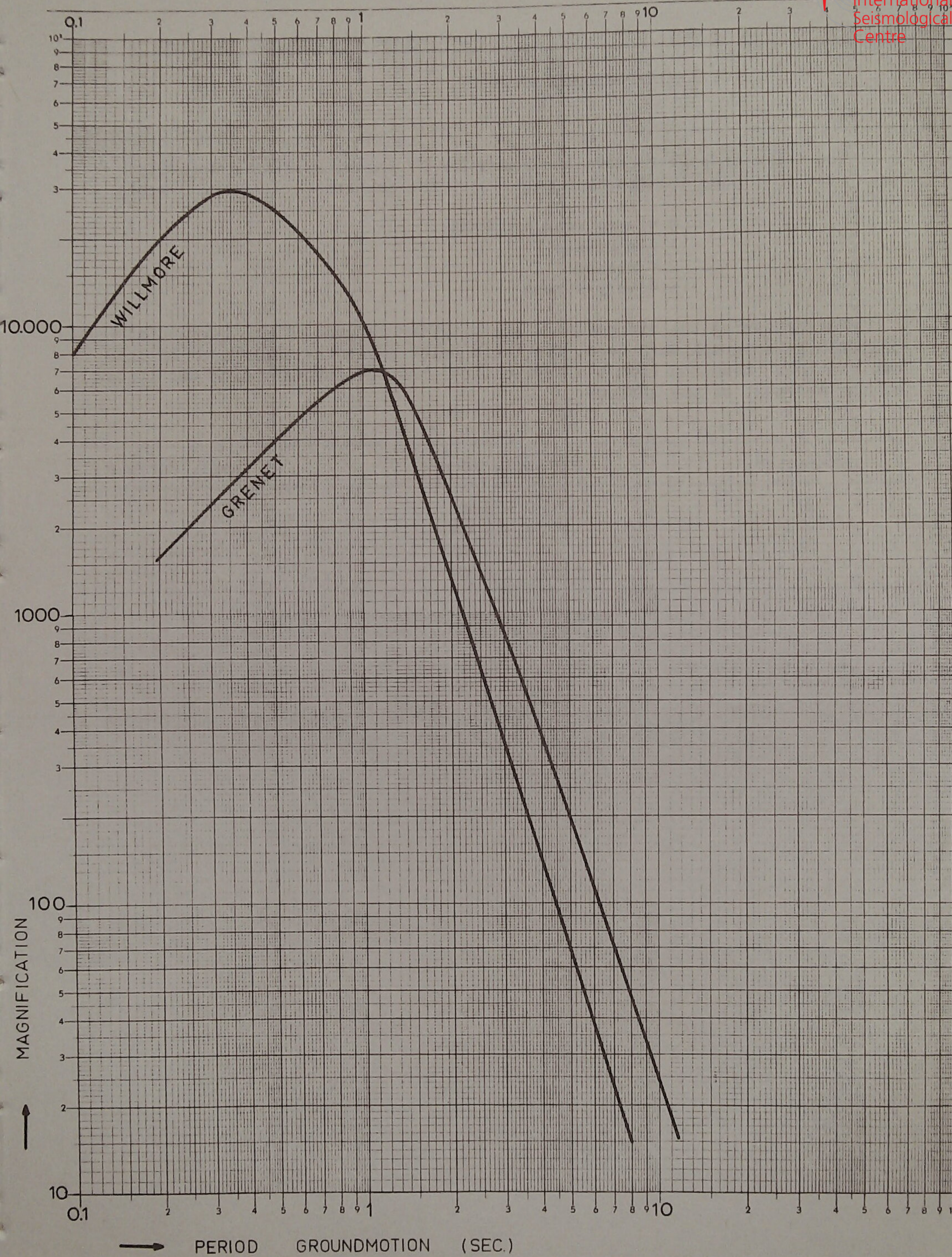
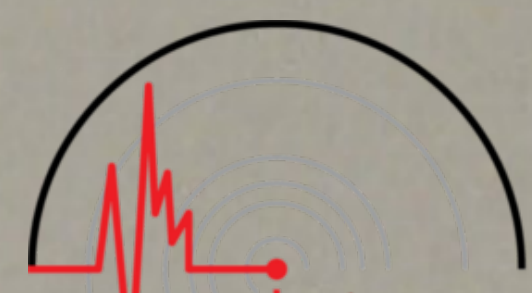
SEISMOGRAPH STATION WITTEVEEN (WIT)

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

The instrument, a GRENET vertical seismograph with galvanometric record, is placed at a height of 17 m above mean sealevel on a subsoil consisting of pleistocene sand.

The period of the 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 second.





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 - $1\frac{1}{4}$ μ
1	$\frac{1}{2}$ - 2 mm	$1\frac{1}{4}$ - 5 μ
2	2 - 4 mm	5 - 10 μ
3	> 4 mm	> 10 μ

Character of the microseismic movement

Date 1976	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1	1	1	1	1	100	0	1	0 1	100	1 2	2 1
2	212	1	1	1	1	0 1	0	1	1	1	233	2
3	3	1	1	112	1	1	0	1 0	1	1	2	2
4	212	1	1	1	1	1	0	0	1	1	211	2 1
5	212	1	1	1	1 0	1	0	0	1 0	1	122	1 2
6	211	1	1	1	0	1 0	0	0	0	1	221	2 3
7	1	1	1	1	0 1	0	0	0	0	1	1	3 2
8	1	2	1	1	1	0	0	001	001	1	1	221
9	1	212	1	1	1	0	0	1	1	1	101	1
10	112	2	1	1	1	1 0	001	1	1	1	1	1
11	2	323	1	1	1	0	1	1 0	221	1	1	1
12	2	2 1	112	1	1	0	1 0	0	1 0	1	1	122
13	211	1	221	1	1	001	0	0	0	1	1	2
14	211	1	1	1	1	1	0	0	1 0	112	1	2 1
15	1	1	2	1	1	1	0	0	0	332	1	1
16	1	122	211	1	1	1	0	0	0	1	1	1
17	1	1	2	1	1	1	0	0	001	1	1	1
18	1	1	1	1	100	1 0	0	0	1	1	1	1
19	1 2	1	1	1	0	001	0	0	1	1	1	1
20	233	121	112	1	0	110	0	0	1	1	1	1
21	3	1	332	1	0	0	0	0	1	122	1	1
22	3 2	1	2 1	1	010	0	0	0	1	2	1	1
23	211	1	1	1	0	0	0	0	1	2 1	1	1
24	2	1 2	1	1	0 1	0	0	0	1	1	1	1
25	221	2	2	1	1	0	0	0	1	1	1	1
26	1	2	212	0 1	1 0	0	0	0	1	1	1	1
27	1	1	2	1	0 1	0	0	1	1	1	1	1
28	1	1	2	0	1	0	0 1	1	1	1	2	1
29	122	1	2 1	0	1 0	0	101	0	1	1 0	2	1
30	3		1	0	0	0	1	0	1	001	2	112
31	321		1		010		1	0		1		2

EXPLANATION OF THE TABLES



The data given for De Bilt have 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 and Witteveen 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 nomenclature has been used:

Seismic phases.

- P,S : direct longitudinal or transverse waves propagating in the mantle.
 PKP (P') : direct longitudinal wave traversing the core without detailed identification (core waves).
 PKP2 : core wave propagating only through the outer core.
 PKIKP : core wave propagating through the inner core.
 PKHKP : core wave refracted in the intermediate zone between the inner and outer core.
 PP,PPP,SS,SSS : P or S waves reflected once or twice at the Earth's surface.
 PcP,ScS : P or S waves reflected at the core boundary.
 PcS,ScP : P or S waves transformed on reflection at the core boundary.
 PKKP : P wave reflected from the inside surface of the core, thereby passing twice through the core.
 P'P' : PKP wave reflected from the Earth's surface, passing twice through the core.
 SKS (S') : S wave passing through the core as P wave, transformed back into S wave on emergence.
 SKKS : S wave transformed on refraction at the core boundary into P wave, reflected from the inside surface of the core and finally transformed back into S wave at the core boundary.
 PS,SP,PPS,SPP, PSP etc. : P and S waves reflected and transformed at the Earth's surface.
 SKP : S wave transformed into P wave on refraction into the core.
 PKS : P wave transformed into S wave on refraction when leaving the core.
 Pdif : P wave diffracted around the core.
 pP,pPKP,pPP, sP,sPP etc. : P or S waves leaving the focus in an upward direction and reflected from the surface as P waves.
 pS,sS,pSS etc. : P or S waves leaving the focus in an upward direction and reflected from the surface as S waves.
 Pg,Sg : P or S waves in the upper crust (granitic layer).
 Pb(P*),Sb(S*) : P or S waves in the lower crust (basaltic layer) or along the Conrad discontinuity.
 Pn,Sn : P or S waves refracted below the crust following the Mohorovičić discontinuity.
 L : Long waves, unidentified, the beginning of the surface wave group.

Additional notations.

- F : finish or end of the discernible movement on the record.
 i : impulsive or sharp beginning of a phase (e.g. iP, iPKP etc.).
 e : emerging or gentle beginning of a phase (e.g. eS, ePP etc.).
 H : origin time (focal time).
 h : depth of focus.
 h N : normal depth of focus (5-60 km).
 Ms : Magnitude determined by surface waves.
 Mb : Magnitude determined by body waves.
 Ml : Magnitude of local shock determined by near stations.

The indices Z, NS and EW refer to vertical, north-south and east-west components of the movement.

The distance of the epicenter and the depth of focus 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:

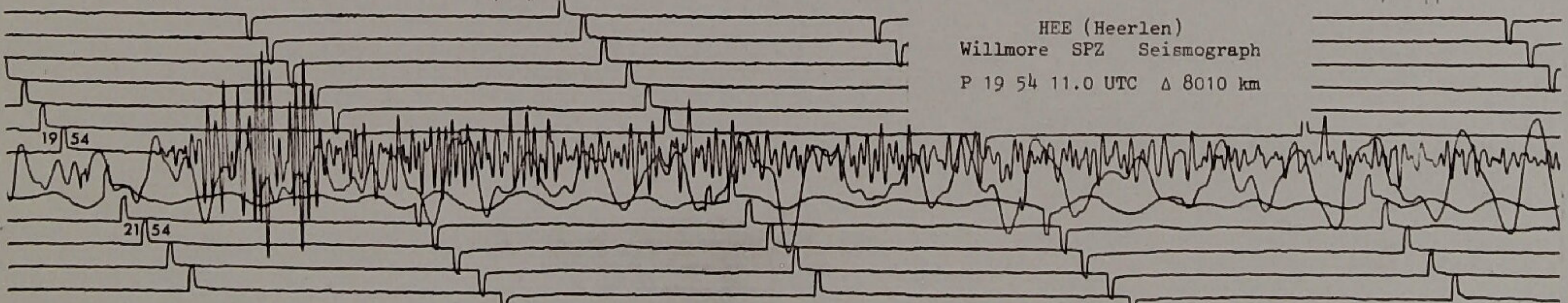
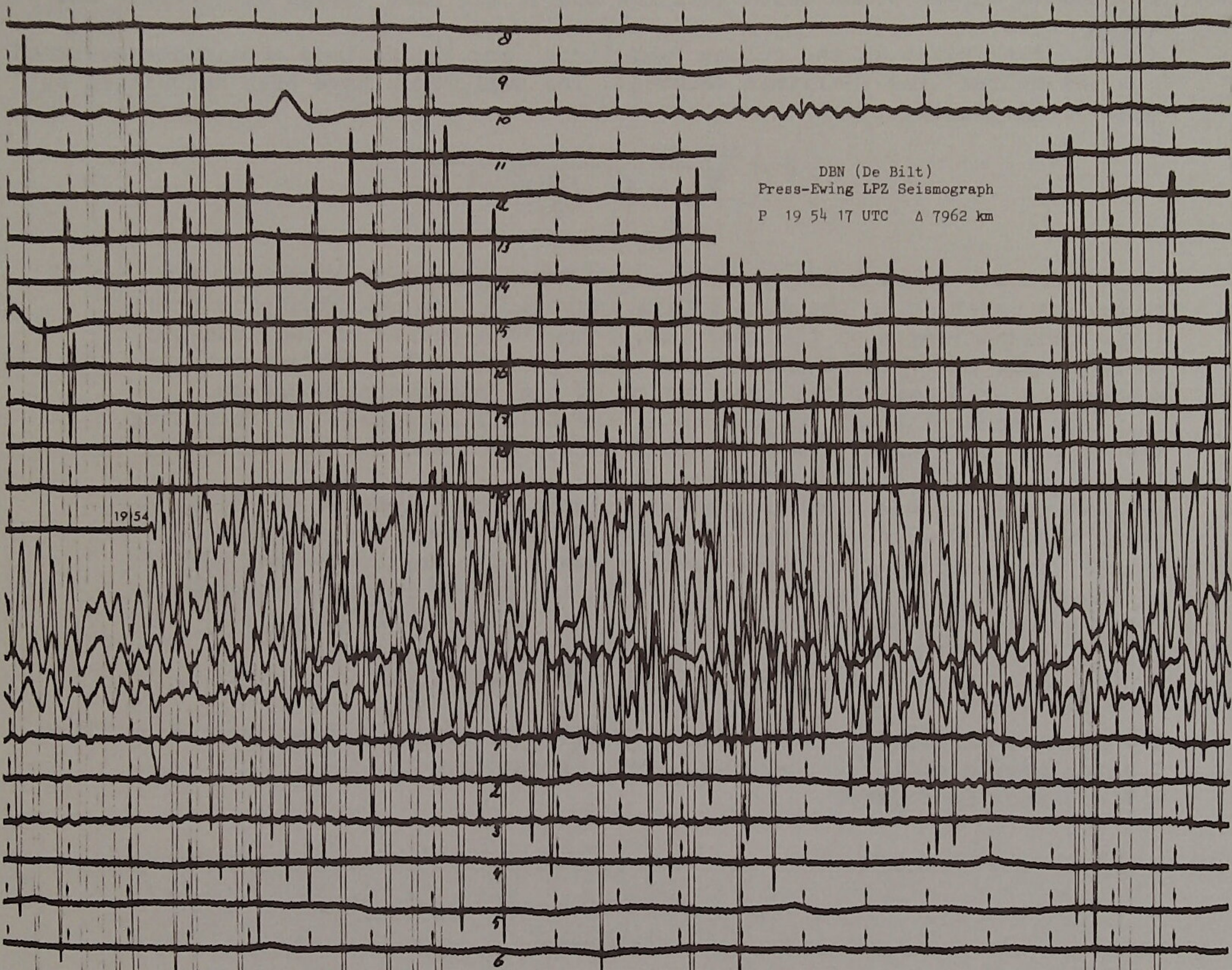
$$M = \log \left(\frac{A}{T} \right) + 1.66 \log \Delta + 3.3$$

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.

SEISMIC RECORDS AT DE BILT AND HEERLEN OF THE
CATASTROPHIC CHINA EARTHQUAKE OF JULY 27, 1976



NATIONAL EARTHQUAKE INFORMATION SERVICE

JULY 1976

REGION AND COMMENTS:

DAY UTC	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES		DEPTH KM	MAGNITUDES GS	
		LAT	LONG		MB	MSZ
27	19 42 54.6	39.6 N	118.0 E	23	6.3	7.9

NORTHEASTERN CHINA.
655,237 REPORTEDLY KILLED, APPROX.
800,000 INJURED AND EXTENSIVE DAMAGE
IN THE TANG-SHAN AREA. DAMAGE EXTENDED
AS FAR AS PEKING. THIS IS PROBABLY THE
GREATEST DEATH TOLL FROM AN EARTHQUAKE
IN THE LAST FOUR CENTURIES, AND THE
SECOND GREATEST IN RECORDED HISTORY.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976	1. DBN: iPKP	01	49	28	+	12	8.8			28.6S 177.6W, H: 01 29 39.6, h 59 km. Mb 6.2 Kermadec Islands region.	
	iPP	01	53	36							
	iSPP	02	06	45							
	eSS	02	13	23							
	eL	02.4				20		35.0			
	F	05.1									
	WIT: iPKP	01	49	31.4	-						
	i	01	49	39.1	+						
	i	01	50	09.5	-						
	HEE: ePKP	01	49	30.0							
	i	01	49	42.5							
	i	01	49	56.0							
	1. DBN: eL	10	21								16.6S 172.9W, H: 09 04 44.6, h 33 km. Mb 5.7, Ms 5.6 Samoa Islands region.
	F	11.5									
HEE: iPKP	09	24	22.0	+							
1. HEE: ePKP	14	27	05.0						ISC: 16.3S 172.9W, H: 14 07 27.6, h 33 km, Mb 4.8 Samoa Islands region.		
1. HEE: iPKP	15	05	49.0	+					16.4S 172.9W, H: 14 46 11.1, h 33 km Mb 5.3, Ms 4.9 Samoa Islands region.		
1. HEE: ePKP	16	35	20						26.6S 178.2W, H: 16 15 49.7, h 208 km. Mb 5.4 South of Fiji Islands.		
iPKP2	16	35	46.0	+							
1. DBN: eL	19	54							16.8S 167.3E, H: 18 43 38.2, h 25 km Mb 5.2, Ms 5.5 New Hebrides Islands.		
F	20	24									
HEE: ePKP	19	03	11.0								
i	19	03	20.5	+							
1. HEE: iPKP	19	17	14.0	+					16.5S 172.7W, H: 18 57 35.9, h 33 km Mb 5.0, Ms 5.4 Samoa Islands region.		
e	19	17	16.5								
e	19	17	27.0								
1. HEE: ePKP2	19	23	53.5	+					29.0S 177.8W, H: 19 03 29.4, h 63 km Mb 5.2 Kermadec Islands.		
2. DBN: eL	06	42.7							66.ON 16.8W, H: 06 33 48.4, h 33 km Mb 4.4 Iceland region.		
F	06	53									
3. WIT: iP	19	26	59.2	+					37.3N 116.3W, H: 19 15 00.2, h 0 km Mb 6.2, Ms 5.5 Southern Nevada.		
HEE: iP	19	27	04.5	+							
4. DBN: eL	04	38.3							66.ON 16.7W, H: 04 29 29.3, h 33 km Mb 5.2 Iceland region.		
F	04	51									
HEE: eP	04	33	51.0								

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
4.	DBN: eL F	04 05	56 18								10.1S 109.1E, H: 03 56 55.8, h 59 km Mb 5.5 South of Java.
6.	WIT: iP HEE: eP	21 21	08 08	44.4 55.0							51.5N 159.3E, H: 20 57 11.4, h 33 km Mb 5.1 Off east coast of Kamchatka.
6.	DBN: iP iS eSS eL F WIT: eP e HEE: iP	21 21 21 21	19 29 34 40	59 33 20	- +	6 20	3.4 8.3				51.6N 159.3E, H: 21 08 19.3, h 33 km Mb 5.7, Ms 6.0 Off east coast of Kamchatka. in next shock
6.	WIT: eP i HEE: eP i	21 21 21 21	56 57 57 57	56.5 02.0 07.5 13.5	+ - +						51.7N 159.2E, H: 21 45 25.1, h 33 km Mb 5.3 Off east coast of Kamchatka.
6.	DBN: eL F WIT: iP HEE: iP	22 23 22 22	56 32 29 29		+ +						51.7N 159.2E, H: 22 17 47.9, h 33 km. Mb 5.6 Off east coast of Kamchatka.
7.	WIT: eP HEE: iP e	00 00 00	07 07 08	42.5 37.5 09.0							17.9S 69.5W, H: 23 54 22.2, h 76 km Mb 5.6 Peru-Bolivia border region.
7.	DBN: eL F WIT: eP HEE: eP e	02 03 02 02 02	40 00 08 08 08								51.6N 159.2E, H: 01 57 00.8, h 33 km Mb 5.2, Ms 5.2 Off east coast of Kamchatka.
7.	WIT: eP HEE: ep	04 04	44 44	28.0 38.5							51.8N 159.2E, H: 04 32 56.8, h 33 km Mb 5.0, Ms 4.7 Off east coast of Kamchatka.
7.	WIT: e PKP e _p PKP HEE: e PKP	12 12 12	17 18 18	53.0 03.5 09.5							ISC: 21.1S 168.6E, H: 11 58 16.2, h 34 km. Loyalty Islands.
7.	WIT: eP HEE: eP	13 13	48 48	31.0 43.5							51.5N 159.3E, H: 13 37 01.4, h 63 km Mb 5.0 Off east coast of Kamchatka.
7.	WIT: eP HEE: eP	18 18	44 44	51.0 55.0							26.4N 127.6E, H: 18 32 10.2, h 58 km Mb 5.3 Ryukyu Islands.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
7.	DBN: iP eS eL F WIT: iP HEE: iP	23 23 00 01 23 23	46 55 10 18 45 46	01 44 55.3 05.5	+ + +	18	6.2			5.9	51.7N 159.5E, H: 23 34 23.7, h 33 km Mb 5.7, Ms 5.7 Off east coast of Kamchatka
8.	HEE: ePKP	06	48	38.0							20.4S 169.1E, H: 06 29 02.1, h 47 km New Hebrides Islands
8.	DBN: eL F WIT: eP HEE: iP i	11 11 10 10 10	09 43 42 42 42	 18.5 28.0 30.0	 - -						51.7N 159.1E, H: 10 30 45.0, h 33 km Mb 5.5, M 5.1 Off east coast of Kamchatka
8.	DBN: eL F WIT: eP HEE: eP	16 17 16 16	37 03 01 01	44.5 56.0							51.4N 159.8E, H: 15 50 11.3, h 33 km Mb 5.4, Ms 4.9 Off east coast of Kamchatka
9.	DBN: eL F HEE: eP e	03 04 03 03	55.4 07 51 51	 17.0 27.5							66.1N 16.6W, H: 03 46 55.5, h 33 km Mb 4.8 Iceland region
9.	HEE: eP	06	13	45.5							66.2N 16.6W, H: 06 09 20.1, h 10 km Mb 4.3 Iceland region
9.	DBN: eL F	06 07	55.1 03								66.0N 16.6W, H: 06 45 25.3, h 33 km Mb 4.7 Iceland region
10.	DBN: ePKP iPP iSKP eL F WIT: ePKP epPKP esPKP ePP HEE: ePKP epPKP esPKP ePP ePcPP	00 00 00 01.1 01.6 00 00 00 00 00 00 00 00 00 00	13 16 17 13 14 15 16 13 14 15 16 25	42 54 08 43.5 31.5 01.5 45.0 44.0 36.0 05.5 57.5 33.5	+ + +						15.8S 167.9E, H: 23 54 35.6, h 168 km Mb 6.1 New Hebrides Islands

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
10.	HEE: eP	07	16	03.5							36.9N 27.8E, H: 07 11 19.2, h 30 km Mb 4.2 Dodecanese Islands
10.	DBN: eL F	09 31 10 30									43.6N 127.4W, H: 08 58 45.2, h 33 km Mb 5.4 Off coast of Oregon
	WIT: eP	09	10	40.5							
	HEE: eP	09	10	46.5	+						
	e	09	10	53.5	+						
10.	DBN: eP eL F	13 00 13 18 14 00		32		20		9.0		5.7	42.1N 83.4E, H: 12 51'25.0, h 34 km Mb 5.4, Ms 5.2 Northern Sinkiang Prov., China
	WIT: eP	13	00	25.0							
	HEE: eP	13	00	30.0							
10.	HEE: ePKP2	13	45	33.5	-						28.9S 177.5W, H: 13 25 07.2, h 33 km Mb 5.4 Kermadec Islands region
12.	HEE: eP	17	55	51.0							34.3N 32.5E, H: 17 50 24.0, h 33 km Mb 5.1 Cyprus
12.	DBN: eL F	21 06 21.6									30.1S 176.8W, H: 19 35 25.8, h 33 km Mb 5.3, Ms 5.0 Kermadec Islands region.
13.	DBN: eL F	04 43.5 04 57									66.1N 16.7W, H: 04 34 34.3, h 33 km Mb 5.0 Iceland region
	WIT: eP	04	38	40.0							
	HEE: eP	04	38	56.5	-						
13.	DBN: iP iS eL F	13 33 28 13 36 36 13 37.6 15.6			+	3		5.0			66.2N 16.6W, H: 13 29 19.5, h 33 km Mb 6.0, Ms 6.4 Iceland region
	WIT: iP	13	33	24.0	-						
	i	13	33	34.0							
	HEE: iP	13	33	41.5	-						
	eL	13	39								
13.	DBN: eL F	16 36 17 05									66.1N 16.6W, H: 16 26 18.8, h 33 km Mb 4.5 Iceland region
14.	HEE: ePKP2	08	48	32.0							29.3S 177.2W, H: 08 28 07.4, h 64 km Mb 5.3 Kermadec Islands

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
14.	HEE: iPKP	16	16	08.0	+						15.2S 173.5W, H: 15 56 33.1, h 33 km Mb 5.7 Tonga Islands
14.	DBN: iPKP iPP iSKKS eSS eL F WIT: ePKP iPKP2 e HEE: ePKP iPKP2 i	16 16 16 16 17.2 in next shock 16 16 16 16 16 16 16 16 16	16 20 31 40 16 17 32 16 17 32 16 17 32	26 44 04 44 33.0 06.0 28.0 33.5 10.5 37.0		12	23.0				29.2S 177.9W, H: 15 56 34.9, h 69 km Mb 6.3 Kermadec Islands
14.	DBN: eL F WIT: iPKP HEE: ePKP i iPKP2	18 22.5 17 17 17 17	02 07 07 07 08	31.0 32.0 41.5 07.0		18	300		370	8.2	28.4S 177.7W, H: 16 47 33.5, h 33 km Mb 6.5, Ms 8.0 Kermadex Islands region
14.	HEE: iPKP	19	10	26.0							29.7S 176.9W, H: 18 50 25.6, h 33 km Mb 5.4 Kermadec Islands region
14.	DBN: eL F HEE: ePKP2	23 01.5 23	59 04	10.0		18	7.7			6.5	28.7S 176.9W, H: 22 43 43.1, h 31 km Mb 5.5, Ms 6.3 Kermadec Islands region
15.	DBN: eL F	02 03.0	15								29.3S 176.4W, H: 00 45 57.0, h 33 km Mb 5.2, Ms 5.7 Kermadec Islands region
15.	HEE: iPKP2	02	15	19.0	+						28.7S 176.8W, H: 01 54 51.0, h 33 km Mb 5.4 Kermadec Islands region
15.	DBN: eL F HEE: ePKP	03 04.4 02	24 20	29.0							29.0S 176.8W, H: 02 00 11.7, h 33 km Mb 5.2, Ms 5.7 Kermadec Islands region
15.	HEE: ePKP2	04	09	06.0							30.2S 177.6W, H: 03 48 33.1, h 33 km Mb 5.4 Kermadec Islands region
15.	HEE: eP	04	55	12.0							49.9N 78.2E, H: 04 46 57.6, h 0 km Mb 5.2 Eastern Kazakh SSR

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
15.	DBN: eL F	04	56								29.4S 176.8W, H: 03 30 09.0, h 33 km Mb 5.2 Kermadec Islands region
15.	HEE: ePKP	05	00	21.0							15.5S 167.6E, H: 04 41 07.4, h 132 km Mb 5.2 New Hebrides Islands
15.	HEE: ePKP2	06	05	33.0							29.1S 177.0W, H: 05 45 01.8, h 33 km Mb 4.9 Kermadec Islands
15.	DBN: eL F	07	28								30.4S 176.8W, H: 06 06 46.1, h 33 km Mb 5.3, Ms 6.2 Kermadec Islands region
	HEE: iPKP2 i	06	27	21.0	-						
		06	27	29.5	+						
15.	HEE: ePKP2 e	06	48	53.5							30.0S 176.8W, H: 06 28 18.1, h 33 km Mb 5.5 Kermadec Islands region
		06	49	06.5							
15.	DBN: eL F	09	56								30.3S 177.4W, H: 08 29 54.6, h 44 km Mb 5.5 Kermadec Islands
	HEE: iPKP2	08	50	26.5	-						
15.	HEE: iPKP2	10	30	18.0	-						28.6S 177.6W, H: 10 09 51.9, h 33 km Mb 5.6, Ms 5.8 Kermadec Islands region
15.	DBN: eL F	17	38								30.2S 177.2W, H: 16 12 22.3, h 33 km Mb 5.1, Ms 6.1 Kermadec Islands
	HEE: ePKP2 i	16	32	56.0							
		16	33	04.0	+						
15.	DBN: eL F	23	03								28.1S 178.4W, H: 21 47 04.2, h 39 km Mb 5.2, Ms 5.6 Kermadec Islands region
	HEE: ePKP2	22	07	31.5							
16.	HEE: iPKP e	03	33	47.5							16.7S 172.4W, H: 03 14 09.5, h 33 km Mb 5.3, Ms 4.9 Samoa Islands region
		03	34	00							
16.	HEE: ePKP2	04	31	51.5	+						29.9S 177.3W, H: 04 11 19.9, h 33 km Mb 5.0 Kermadec Islands
16.	WIT: ePKP HEE: iPKP i	06	01	36							22.1S 170.0E, H: 05 41 53.1, h 54 km Mb 5.2 Loyalty Islands region
		06	01	40.0							
		06	01	48.5							

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
16.	DBN: iPKP eL F	11 12.2 12	14 52	07 	- 						21.2S 168.7E, H:10 54 28.0, h 33 km Mb 5.3 Loyalty Islands
	WIT: ePKP i	11 11	14 14	05.0 15.8	+ 						
	HEE: ePKP i	11 11	14 14	09.5 18.0							
16.	HEE: ePKP2	13	16	04.5							29.0S 177.0W, H:12 55 36.6, h 33 km Mb 5.4 Kermadec Islands
16.	DBN: eL F	16 17	56 50								29.6S 176.7W, H:15 28 09.3, h 33 km Mb 5.0, Ms 5.2 Kermadec Islands region
16.	HEE: e	21	28	18.5							No determination of epicenter.
16.	DBN: eL F	23 23	08 58								30.1S 177.6W, H:21 46 21.5, h 33 km Mb 5.4, Ms 5.4 Kermadec Islands
	WIT: ePKP2	22	06	46.0	-						
	HEE: iPKP2	22	06	53.0	-						
16.	WIT: ePKP HEE: ePKP iPKP2 e	23 23 23 23	52 52 52 52	16.0 16 38.0 51.0	 - +						29.7 177.7W, H:23 32 09.4, h 51 km Mb 5.5 Kermadec Islands
17.	DBN: eL F	02 03	53 00								66.2N 16.7W, H:02 44 40.2, h 10 km Mb 4.5 Iceland region
17.	DBN: eL F	07 09.2	18 								32.6S 178.2W, H:05 49 55.2, h 33 km Mb 5.8, Ms 5.2 South of Kermadec Islands
	HEE: iPKP2	06	10	37.0	-						
17.	HEE: ePKP2 e	06 06	48 50	49.5 18.0							32.4S 178.4W, H:06 28 08.1, h 33 km Mb 4.5 South of Kermadec Islands
17.	HEE: ePKP2	07	26	18.5	+						29.4S 176.5W, H:07 05 50.0, h 41 km Mb 5.1 Kermadec Islands region
17.	DBN: eL F	10 11	44 30								29.3S 176.7W, H:09 15 36.9, H 65 km Mb 5.3 Kermadec Islands region

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
17.	DBN: eL F	12	01.0								65.7N 16.5W, H:11 51 10.3, h 33 km Mb 4.6 Iceland
17.	DBN: eL F HEE: ePKP2 e	15 21 16 06 14 13 21.0 14 15 26.5									32.6S 178.2W, H:13 52 39.4, h 33 km Mb 4.8 South of Kermadec Islands
18.	HEE: ePKP2	00 29 55.0									29.4S 177.2W, H:00 09 39.1, h 135 km Kermadec Islands
18.	HEE: ePKP2	02 38 27.0									29.1S 177W, H:02 17 36.3, h 33 km Mb 4.7 Kermadec Islands
18.	HEE: eP	04 41 13.5									40.2N 68.7E, H:04 33 08.5, h 33 km Southeastern Uzbek SSR
18.	DBN: iP iZ iS eL F WIT: iP i HEE: iP	04 52 01 04 52 14 04 56 28 04 59 07.0 04 51 52.3 04 52 20.5 04 52 09.5			+	21			55.0	6.1	77.9N 18.6E, H:04 46 24.4, h 33 km Mb 5.6, Ms 5.9 Svalbard region
18.	DBN: eL F HEE: eP	08 33.3 08 54 08 28 08.0									65.7N 16.8W, H:08 23 48.8, h 33 km Mb 4.6 Iceland
18.	HEE: ePKP	09 34 22									22.4S 170.5E, H:09 14 34.8, h 33 km Loyalty Islands region
18.	HEE: ePKP	12 47 04.5									22.5S 170.6E, H:12 27 17.3, h 33 km Mb 5.6 Loyalty Islands region
18.	DBN: eL F WIT: ePKP2 HEE: ePKP2 e	14 59 in next shock 13 50 10.5 13 50 15.0 13 50 26.5									32.4S 178.3W, H:13 29 32.8, h 32 km Mb 5.2, Ms 5.5 South of Kermadec Islands

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
18.	DBN: iP iS eL F WIT: eP HEE: eP i i	15 15 15 15 15 15 15 15	14 18 19.2 59 14 14 14 14	29 01 30.0 14.5 32.0 40.5	+	17			20.0	5.4	38.9N 20.6E, H:15 10 32.7, h 33 km Mb 5.4, Ms 5.7 Greece
18.	HEE: ePKP2	15	29	42.0							32.5S 178.7W, H:15 09 26.0, h 172 km Mb 4.8 South of Kermadec Islands
18.	DBN: eL F HEE: ePKP2	19 20.4 18	56 46	 22.0							30.3S 177.1W, H:18 25 49.7, h 33 km Mb 5.3, Ms 5.8 Kermadec Islands
18.	HEE: ePKP2	19	08	22							32.5S 178.2W, H:18 47 40.3, h 33 km Mb 5.1 South of Kermadec Islands
18.	DBN: eL F HEE: ePKP2	20 21 19	51 13 40	 42.0							30.2S 177.1W, H:19 20 16.3, h 96 km Mb 4.8 Kermadec Islands
19.	DBN: eL F HEE: eP	09 09 09	32.5 46 27	 09.5							65.7N 170.0W, H:09 22 47.3, h 10 km Mb 5.0 Iceland
19.	HEE: ePKP e	16 16	00 00	09.5 24.0							16.8S 172.6W, H:15 40 31.2, h 33 km Mb 5.3 Samoa Islands region
20.	HEE: iP KP	17	41	04.0	-						20.1S 177.9W, H:17 22 15.2, h 544 km Mb 5.0 Fiji Islands region
21.	DBN: iP iS eSS eL F WIT: iP i HEE: iP i	10 10 10 10 10 10 10 10 10 10	17 27 32.8 10.7 13.9 17 17 17 17	21 30 19.2 21.0 27.5 31.0	- - - - -	20			100	7.2	44.9N 149.1E, H:10 05 24.1, h 41 km Mb 6.3, Ms 7.0 Kuril Islands
21.	WIT: iP ipP HEE: iP ipP	10 10 10 10	26 26 26 26	07.0 21.1 17.5 31.5							44.6N 149.5E, H:10 14 13.1, h 49 km Mb 5.8 Kuril Islands

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
21.	WIT: iP HEE: iP	10	31	07.1	-						44.5N 149.4E, H:10 19 12.0, h 47 km Mb 5.8 Kuril Islands
21.	HEE: iP	10	34	53.0							44.5N 149.3E, H:10 22 49.0, h 50 km Mb 5.6 Kuril Islands
21.	HEE: iP	11	03	18.5							44.9N 149.4E, H:10 51 15.4, h 56 km Mb 5.7 Kuril Islands
22.	DBN: eSS eL F HEE: eP	08	34	56							44.4N 149.6E, H:08 07 10.4, h 44 km Mb 5.4, Ms 5.6 Kuril Islands
22.	DBN: eL F HEE: eP	09	44								44.5N 149.2E, H:09 00 56.8, h 55 km Mb 5.6 Kuril Islands
22.	DBN: eL F	18	09								44.5N 149.1E, H:17 26 16.8, h 52 km Mb 5.2 Kuril Islands
23.	DBN: eL F WIT: eP i HEE: eP	03	10								44.1N 149.6E, H:02 24 51.5, h 33 km Mb 5.4, Ms 5.2 Kuril Islands
23.	DBN: ipPP iSP iSPP F WIT: ePKP iPKPK i HEE: iPKP iPKKP i	06	05	48							7.5S 119.9E, H:05 45 30.5, h 614 km Mb 6.4 Flores Sea
23.	DBN: eL F HEE: iPKP	19	50								50.3S 139.6E, H:18 33 30.3, h 33 km Mb 5,6, Ms 5.9 South of Australia
24.	DBN: eL F HEE: eP	02	33								43.0N 147.2E, H:01 51 38.4, h 33 km Mb 5.1, Ms 4.7 Kuril Islands

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Blitt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
24.	WIT: eP HEE: eP	02	12	13.5 23.5							43.0N 147.1E, H:02 00 12.3, h 33 km Mb 5.3 Kuril Islands
24.	WIT: eP	03	32	31.0							27.4N 128.3E, H:03 19 57.3, h 56 km Mb 5.4 Ryakyu Islands
24.	HEE: ePKP2	07	15	32.0							29.6S 177.1W, H:06 55 02.9, h 33 km Mb 5.3 Kermadec Islands
24.	WIT: e HEE: e	17	52	41.0 44.0							No determination of epicenter
24.	DBN: iPKP iPP eL F WIT: ePKP i iPKP2 ePP HEE: iPKP i iPKP2 iPP	22	08	12 18 02 00.3 08 08 08 12 08 08 08 12 12 12 12	+ + + +						28.6S 177.6W, H:21 48 25.9, h 78 km Mb 6.2 Kermadec Islands region
25.	DBN: iP iS eSS eL F WIT: iP i HEE: iP	12	35	54 57 12 00 40 35 35 35	+ + +	18			17.0	6.4	44.8N 149.8E, H:12 23 55.5, h 54 km Mb 5.9 Kuril Islands
25	DBN: eL F	15	46.5								66.3N 17.1W, H:15 37 33.4, h 10 km Mb 4.2 Iceland region
25.	DBN: eL F	15	50.0								66.3N 17.0W, H:15 41 06.9, h 10 km Mb 4.4 Iceland region
26.	DBN: eL F	03	59								13.9N 91.0W, H:03 17 46.3, h 69 km Mb 5.1 Near coast of Guatemala

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976											
26.	WIT: iPKP HEE: iPKP	08	47	06.5	+						19.8S 176.2W, H:08 27 52.8, h 261 km Mb 5.1 Fiji Islands region
26.	DBN: eL F HEE: ePKP2	20	19								20.5S 177.1W, H:18 50 36.9, h 59 km Mb 5.5 Kermadec Islands
		21.1									
		19	11	03.5							
26.	DBN: eL F	21	18								65.7N 17.0W, H:21 08 18.3, h 10 km Mb 4.3 Iceland
		21	25								
26.	DBN: eL F HEE: ePKP	23	08								15.9S 172.5W, H:21 46 13.4, h 36 km Mb 5.0, Ms 5.5 Samoa Islands region
		23	21								
		22	05	47.5							
27.	DBN: eL F	05	47								29.4N 176.8W, H:04 18 08.8, h 55 km Mb 5.1, Ms 5.4 Kermadec Islands region
		06	32								
27.	DBN: iPKP eL F HEE: ePKP ePKP2	11	28	50	-	19			2.4	6.0	29.9S 176.8W, H:11 08 50.2, h 33 km Mb 5.4, Ms 5.9 Kermadec Islands region
		12	34								
		13.6									
		11	28	51.0							
		11	29	22.5							
27.	HEE: e	16	18	53.0							43.6N 127.4W, H:16 06 47.5, h 33 km Mb 5.2, Ms 4.9 Off coast of Oregon
27.	DBN: eL F	16	33								29.5S 176.8W, H:15 01 33.1, h 47 km Mb 5.1, Ms 5.4 Kermadec Islands region
		17	26								
28.	DBN: eL F WIT: eP HEE: iP	20	18								44.3N 149.3E, H:19 35 51.9, h 48 km Mb 5.6, Ms 4.8 Kuril Islands
		20	50								
		19	47	47.0	+						
		19	47	57.0	+						
29.	DBN: eL F WIT: eP e HEE: eP	00	47								44.2N 149.3E, H:00 06 08.3, h 30 km Mb 5.4, Ms 4.8 Kuril Islands
		01	10								
		00	18	07.0							
		00	18	12.0							
		00	18	17.5							
31.	DBN: eL F WIT: eP e HEE: eP e	01	10								44.0N 149.2E, H:00 25 31.4, h 41 km Mb 5.4, Ms 4.9 Kuril Islands
		01	34								
		00	37	30.0							
		00	37	46.0							
		00	37	40.0							
		00	37	56.0							

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JAN. 1976	DBN: eL	02	39							44.1N 149.1E, H:01 57 15.1, h 47 km Mb 5.3, Ms 4.8 Kuril Islands	
	F	03	01								
	WIT: eP	02	09	12.5							
	HEE: eP	02	09	22.0							
	epP	02	09	36.0							
31.	WIT: iPKP	08	40	46.1	-					21.5S 179.3W, H:08 22 07.4, h 628 km Mb 5.5 Fiji Islands region	
	epPKP	08	43	08							
	HEE: iPKP	08	40	50.0	-						
	i	08	40	59.0	+						
	epPKP	08	43	14.0							
31.	DBN: iP	22	45	14	-					65.6N 16.8W, H:22 40 28.4, h 8 km Mb 4.9, Ms 4.5 Iceland	
	eL	22	50.0								
	F	23	16								

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms		
		h	m	s			Z	NS	EW				
FEB. 1976	1.	DBN: iP	11	27	34	+	18	2.7	5.6	17.2N 100.2W, H:11 14 57.3 h 52 km. Mb 5.7, Ms 5.6 Guerrero, Mexico.			
		iZ	11	27	42	-							
		eS	11	38	11								
		eSS	11	44.0									
		eL	11	56									
		F	12	47									
		WIT: eP	11	27	36.0	+							
		HEE: iP	11	27	37.0	+							
		i	11	27	44.0								
		iPP	11	30	58.0								
	i	11	31	04.0	+								
1.	WIT: e(PKP)	14	20	15.0					19.6S 173.1W, H:14 00 17.2 h 33 km. Mb 4.9 Tonga Islands.				
	HEE: ePKP	14	20	03.0									
2.	HEE: ePKP	02	38	09.5					16.3S 172.3W, H:02 18 44.4 h 104 km. Mb 4.4 Samoa Islands region.				
2.	DBN: iP	03	11	54	+	20	3.5	5.6	51.5N 159.5E, H:03 00 16.2 h 33 km. Mb 5.6, Ms 5.4 Off east coast of Kamchatka.				
	ePP	03	14	47									
	eS	03	21	44									
	eL	03	38										
	F	04	58										
	WIT: iP	03	11	49.0	+								
	i	03	12	03.0	-								
	HEE: iP	03	11	59.0	+								
2.	WIT: eP	03	42	17.0									51.5N 159.4E, H:03 30 46.0 h 49 km. Mb 5.1, Ms 4.4 Off east coast of Kamchatka.
	epP	03	42	28.0									
	HEE: eP	03	42	28.5									
	epP	03	42	39.5									
2.	WIT: ePKP	04	04	48.0					16.0S 175.2W, H:03 45 53.2 h 328 km. Mb 5.5 Tonga Islands.				
	HEE: iP	04	04	54.0	-								
	e	04	06	14.5									
2.	DBN: eL	05	57						44.7N 150.0E, H:05 15 08.3 h 47 km. Mb 5.0, Ms 4.6 Kuril Islands region.				
	F	06	26										
	WIT: eP	05	27	04.0									
	HEE: eP	05	27	08									
2.	DBN: eP	13	20	56		18	6.1	4.9	66.1N 16.8W, H:13 16 45.7, h 5 km. Mb 4.8, Ms 4.3 Iceland region.				
	eL	13	25.2										
	F	13	53										
	HEE: iP	13	21	14.0	+								

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
2.	WIT: ePKP HEE: ePKP	14	08	24.0 29.0							21.3S 178.7W, H:13 49 40.0 h 563 km. Mb 4.8 Fiji Islands region.
3.	WIT: ePKP HEE: ePKP	11	31	43.5 48.0							18.0S 178.2W, H:11 12 59.6 h 485 km. Mb 4.7 Fiji Islands region.
3.	WIT: ePKP i HEE: iPKP i	12	46	24.5 31.3 27.0 35.5	+ +						25.1S 179.7E, H:12 27 30.1 h 477 km. Mb 5.8 South of Fiji Islands.
3.	WIT: eP	14	43	59.0							44.3N 149.5E, H:14 32 02.1 h 46 km. Mb 5.2, Ms 4.8 Kuril Islands.
3.	DBN: eL F	16 17	58 24								39.9N 48.4E, H:16 40 40.6 h 58 km. Mb 5.2 N.W. Iran-USSR border region.
3.	WIT: ePKP epPKP HEE: iPKP ipPKP	18	23	06.0 01.0 10.5 09.5	- +						18.1S 175.0W, H:18 03 52.0 h 212 km. Mb 5.7 Tonga Islands.
4.	DBN: eL F WIT: iP e HEE: iP	00 01	30 16								54.5N 161.9E, H:23 57 54.9 h 33 km. Mb 6.0, Ms 5.2 Near east coast of Kamchatka.
4.	DBN: iP iS eSS eLQ eLR F WIT: iP i i i HEE: iP i i eL	09	14	00 05 29.2 35.5 39.3 14.0	- +	20	200		7.5		15.3N 89.1W, H:09 01 43.4 h 5 km. Mb 6.2, Ms 7.5 Guatemala (23 000 killed).
4.	WIT: iP HEE: iP	09	42	55.5 55.0	+ +						14.9N 90.6W, H:09 30 29.4 h 5 km. Mb 5.4 Guatemala.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
4.	HEE: e(P)	11	47	35.0	+						14.7N 90.9W, H:11 24 57.1 h 5 km. Mb 4.7 Guatemala.
4.	HEE: ePKP	13	39	16.5	+						16.5S 172.7W, H:13 19 39.4 h 33 km. Mb 5.3 Samoa Islands region.
4.	WIT: iP HEE: eP	14 14	31 32	59.9 05.0	+						37.1N 116.0W, H:14 20 00.1 h 0 km. Mb 5.8 Southern Nevada.
4.	WIT: iP HEE: iP	14 14	51 52	59.8 05.5	+						37.1N 116.0W, H:14 40 00.2 h 0 km. Mb 5.7 Southern Nevada.
4.	WIT: iP	23	39	54.5	-						27.4N 128.3E, H:23 27 20.6 h 59 km. Mb 5.4 Ryukyu Islands.
5.	HEE: iP	00	01	40.5	-						16.9S 172.0W, H:23 42 02.0 h 33 km. Mb 5.0 Samoa Islands region.
5.	HEE: iP	01	35	54.5	-						16.6S 172.2W, H:01 16 17.0 h 33 km. Mb 4.7 Samoa Islands region.
5.	HEE: i PKP	02	02	23.0							ISC: 16.6S 171.7W, H: 01 42 44.4, h 33 km. Samoa Islands region.
5.	DBN: eL F WIT: eP HEE: iP i	04 05 04 04 04	58 15 21 21 21	 39.5 45.5 51.5							23.5N 125.6E, H:04 08 52.9 h 33 km. Mb 5.5, Ms 4.0 Southwestern Ryukyu Islands.
5.	DBN: eL F HEE: eP	10 11 09	17 22 47	 31.5							60.ON 149.3W, H:09 36 36.5 h 35 km. Mb 5.2, Ms 3.9 Kenai Peninsula, Alaska.
5.	WIT: eP HEE: iP	10 10	06 06	40.5 34.5							21.7S 68.2W, H:09 53 11.7 h 98 km. Mb 5.8 Chile-Bolivia border region.
5.	DBN: eL F WIT: iP ipP HEE: iP	18 18 17 17 17	00 10 25 25 25	 05.6 31.1 15.0	+						43.1N 145.9E, H:17 13 12.5 h 78 km. Mb 5.6 Hokkaido, Japan region.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976	6. WIT: IPKP	00	21	06.0	+						18.2S 178.4W, H:00 02 32.5 h 590 km. Mb 5.2 Fiji Islands region.
	HEE: iPKP	00	21	11.0	+						
	i	00	21	14.0	-						
6.	WIT: ePKP2	02	11	12.0							33.4S 179.4W, H:01 50 30.0 h 60 km. Mb 5.3 South of Kermadec Islands.
	HEE: ePKP	02	10	25.0							
	ePKP2	02	11	09.5							
6.	DBN: eL	17	55								6.0S 146.3E, H:16 53 50.5 h 37 km. Mb 6.0, Ms 5.6 East Papua New Guinea region.
	F	18.4									
6.	DBN: eL	18	57			19			2.6	5.6	14.8 90.6W, H:18 19 17.9 h 5 km. Mb 5.7, Ms 5.3 Guatemala.
	F	19	40								
	WIT: iP	18	31	46.0	-						
	e	18	31	48.0							
	HEE: iP	18	31	44.5	+						
i	18	31	47.5								
7.	WIT: eP	03	44	34.5							40.3N 51.1E, H:03 38 08.8 h 80 km. Mb 5.1 Caspian Sea.
	e	03	45	01.0							
	HEE: e	03	45	02							
7.	WIT: iPKP	07	28	03.0	-						21.2S 178.9W, H:07 09 22.9 h 607 km. Mb 5.4 Fiji Islands region.
	HEE: iPKP	07	28	07.5	-						
	i	07	28	15.5	+						
8.	DBN: eL	08	50			20			3.5	5.7	15.6N 88.5W, H:08 13 46.7 h 5 km. Mb 5.2, Ms 5.6 Honduras.
	F	09	44								
	WIT: eP	08	26	04.0	-						
	e	08	26	42.5	+						
	HEE: eP	08	26	03.0							
e	08	26	37.5								
9.	WIT: eP	02	43	51.0							11.6N 62.4W, H:02 33 07.3 h 179 km. Mb 4.9 Windward Islands.
	HEE: eP	02	43	46.0							
	epP	02	44	25.0							
9.	DBN: eL	12	26								15.3N 89.1W, H:11 44 46.6 h 5 km. Mb 5.2, Ms 4.7 Guatemala.
	F	12	50								
	WIT: e	11	57	17.5							
	HEE: eP	11	57	05.0							
9.	DBN: eL	22	08								21.6N 106.6W, H:21 29 57.1 h 48 km. Mb 5.5, Ms 5.4 Off coast of central Mexico.
	F	22	52								
	WIT: eP	21	42	35.5							
	HEE: iP	21	42	38.0	-						
10.	DBN: eL	08	19								44.5N 149.3E, H:07 40 34.4 h 44 km. Mb 5.5, Ms 5.4 Kuril Islands.
	F	09	15								
	WIT: eP	07	52	30.5	+						
	HEE: iP	07	52	40.0	+						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
10.	WIT: eP HEE: eP	22	45	44.5 55.5							43.9N 149.3E, H:22 33 47.3 h 45 km. Mb 5.3, Ms 4.4 Kuril Islands region.
11.	DBN: eL F WIT: ePKP HEE: ePKP i i	22	57 00.1 03 03 03 03	31 28.0 31.0 42.0							15.3S 172.3W, H:21 43 55.4 h 33 km. Mb 5.6, Ms 5.9 Samoa Islands region.
11.	HEE: ePg e eSg	23	46 46 47	08.0 41.0 36.0							46.0N 1.1W, H:23 43 54.9 h 33 km. France.
12.	WIT: ePKP HEE: ePKP	08	00 01	58.5 01.0							4.6S 152.8E, H:07 42 04.7 h 73 km. Mb 5.5 New Britain region.
12.	DBN: eL F WIT: iP HEE: iP	15 16 14 14	30 05 56 57	58.9 04.5	+						37.3N 116.5W, H:14 45 00.2 h 0 km. Mb 6.3, Ms 5.5 Southern Nevada.
13.	DBN: iPS eL F HEE: eP	08 08 09 08	33 55 45 20	15		18	5.1		6.0		15.7N 121.7E, H:08 07 32.6 h 47 km. Mb 5.4, Ms 5.5 Luzon, Philippine Islands.
13.	DBN: eSKKS eSP eSS eL F HEE: eP	10 10 11 11 12.3 10	57 59 04.5 21 12.3 47	40 12 04.5		20		8.0	6.1		13.9N 120.1E, H:10 33 42.7 h 29 km. Mb 5.6, Ms 5.8 Mindoro, Philippine Islands.
14.	DBN: eL F WIT: ePKP HEE: ePKP	04 04 03 03	15 33 29 29	32.5 29.0							57.4S 64.4W, H:03 10 37.3 h 40 km. Mb 6.0, Ms 5.7 Drake Passage.
14.	WIT: iP HEE: iP	11 11	02 02	29.3 37.0	-						26.6N 140.3E, H:10 50 22.2 h 548 km. Mb 5.5 Bonin Islands region.
14.	WIT: iPKP HEE: iPKP i	11 11 11	41 41 41	43.6 46.5 48.0	-						23.2S 177.4W, H:11 22 17.4 h 232 km. Mb 5.9 South of Fiji Islands.
14.	DBN: eL F	21 21	24 49								8.1S 108.6E, H:20 31 38.2 h 53 km. Mb 5.9 Java.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
15.	DBN: eP eSKS eSPP eSS eL F	02 02 02 02 02 04	08 18 20 26.0 38 50	04 34 36 0		20			12.4	6.4	13.0N 125.8E, H:01 54 23.1 h 33 km. Mb 6.1, Ms 6.1 Philippine Islands region.
	WIT: eP e	02 02	07 08	50.0 00.0							
	HEE: eP i e ePP	02 02 02 02	07 08 10 11	57.0 00.5 39 53.0							
15.	DBN: eL F	22 23.9	48			19		2.2		6.0	28.4S 176.8W, H:21 23 22.6 h 54 km. Mb 5.5, Ms 6.2 Kermadec Islands region.
	WIT: ePKP2 e	21 21	43	32.0 37.0							
	HEE: ePKP2 e	21 21	43	36 45.5							
16.	HEE: eP	13	38	19.5							22.7N 45.0W, H: 13 29 38.9, h 33 km, Mb 5.3, Ms 4.5. North Atlantic Ridge.
16.	DBN: eL F	15 15	27 44								22.7N 100.7E, H:14 45 42.2 h 33 km. Mb 5.0, Ms 5.2 Burma-China border region.
18.	DBN: eL F	10 11.5	53								29.8S 177.2W, H:09 24 14.6 h 37 km. Mb 5.4, Ms 5.5 Kermadec Islands.
	WIT: ePKP2	09	44	39.5							
	HEE: ePKP ePKP2	09 09	44	09.5 44.0	-						
18.	HEE: eP	11	45	10.5							38.8N 20.3E, H:11 41 37.9 h 36 km. Mb 4.4 Greece.
18.	WIT: eP HEE: eP	18 18	16	53.5 47.0							22.5S 68.6W, H:18 03 22.7 h 111 km. Mb 5.4 Northern Chile.
18.	DBN: eL F	21 21	27.0 34								61.7N 26.9W, H:21 17 23.4 h 33 km. Mb 4.7 Iceland region.
	HEE: eP	21	22	08.5							
18.	HEE: eP	22	05	15.0							61.7N 26.9W, H:22 00 34.0 h 33 km. Mb 4.6 Iceland region.
18.	WIT: eP HEE: eP	23 23	11	51.0 49.5							41.9N 32.4E, H:23 07 09.4 h 3 km. Mb 4.5 Turkey.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Blit	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
19.	HEE: e	05	06	02.5							66.4N 135.7W, H:04 55 41.9 h 33 km. Mb 5.0, Ms 4.4 Northern Yukon Territory, Canada.
19.	DBN: eL F	10 10	20 42			22		2.6		5.5	22.8N 100.6E, H:09 38 32.7 h 17 km. Mb 5.1 Burma-China border region.
19.	DBN: eL F	11 12	06 13								52.5N 179.5W, H:10 28 33.5 h 212 km. Mb 4.9 Andreanof Is., Aleutian Is.
19.	DBN: eP eS eL F WIT: eP i HEE: iP	14 14 14 15.3 14 14 14	11 20 28	12 24 28 17.5 24.2 14.5		18			4.0	5.7	19.9N 76.9W, H:13 59 59.8 h 20 km. Mb 5.3, Ms 5.9 Cuba region.
19.	WIT: eP	18	44	01.0							15.9N 95.1W, H:18 31 31.1 h 33 km. Mb 5.1 Near coast of Oaxaca, Mexico.
19.	WIT: e(P) HEE: eP	22 22	13 13	10.0 23.0							53.5N 164.5W, H:22 01 27.1 h 33 km. Mb 5.0 Unimak Island region.
20.	HEE: eP	14	33	14.5							13.7N 92.3W, H:14 20 42.2 h 32 km. Mb 5.5, Ms 4.3 Off coast of Chiapas, Mexico.
21.	WIT: iP HEE: eP	04 04	24 24	18.6 28.0	-						43.2N 137.3E, H:04 13 02.7 h 271 km. Mb 4.9 Eastern Sea of Japan.
21.	DBN: eL F WIT: ePKP HEE: ePKP	10 11 09 09	00 00 04 04	50.0 53.0							23.0S 171.8E, H:08 45 07.0 h 48 km. Mb 5.5, Ms 5.6 Loyalty Islands region.
21.	HEE: ePKP	11	39	17							23.0S 171.9E, H:11 19 23.2 h 53 km. M 5.0 Loyalty Islands region.
21.	DBN: eL F	15 16	49 39								59.8S 150.2E, H:14 27 06.6 h 33 km. Mb 4.9 West of Macquarie Island.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
22.	DBN: eL F	06	14								3.4S 145.2E, H:05 11 07.9 h 22 km. Mb 5.1, Ms 6.0 Near north coast of Papua New Guinea.
22.	DBN: eL F WIT: eP epP HEE: eP epP	06 07 06 06 06 06	43 00 10 10 10 10								52.2N 169.5W, H:05 58 27.7 h 44 km. Mb 5.3, Ms 5.0 Fox Islands, Aleutian Islands.
22.	WIT: iP epP HEE: iP epP	08 08 08 08	00 01 00 01	36.1 18.5 38.0 20.5	+ + + +						3.2N 99.0E, H:07 47 59.5 h 180 km. Mb 5.6 Northern Sumatra.
22.	HEE: eP	08	22	32							18.4S 65.2W, H:08 09 22.3 h 41 km. Mb 5.3 Bolivia.
22.	DBN: eL F WIT: e HEE: eP eL	12 12 12 12 12	11.5 32 07 06 11.5	10.0 41.0	+ +	20	4.6		4.7		39.5N 22.2E, H:12 02 54.8 h 33 km. Mb 5.1 Greece.
22.	WIT: eP HEE: eP eL	16 16 16	17 17 19.9	51.0 41.0							44.2N 15.7E, H:16 15 17.0 h 33 km. Mb 5.2 Yugoslavia.
22.	DBN: eL F WIT: ePKP HEE: iP	19 20 18 18	32 00 47 48	57.0 01.0	- -						6.3S 154.8E, H:18 28 58.3 h 56 km. Mb 5.9 Salomon Islands.
22.	HEE: iP e	22 22	05 05	39.5 54.5	+ +						39.4N 22.1E, H:22 01 46.3 h 17 km. Mb 4.8 Greece.
22.	HEE: eP	22	58	25.0							39.4N 22.1E, H:22 54 35.5 h 33 km. Mb 4.9 Greece.
22.	HEE: ePKP2	23	55	10.5							28.5S 176.1W, H:23 34 34.4 h 41 km. Mb 4.4 Kermadec Islands region.
23.	HEE: e	03	20	59							52.0N 169.5W, H:03 08 59.7 h 26 km. Mb 5.0 Fox Islands, Aleutian Islands.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
23.	DBN: eS eL F WIT: eP i HEE: eP	09 09 10.8 09 09 09	26 40 15 15 15	00 10.0 19.0 17.5		20		53.0	6.9	23.0N 121.7E, H:09 02 31.6 h 33 km. Mb 5.5, Ms 5.8 Taiwan.	
23.	DBN: eL F WIT: eP HEE: iP	15 16.9 15 15	48 25 25	34.0 39.0	+	18	14.0		6.2	51.5N 130.4W, H:15 14 16.0 h 16 km. Mb 5.6, Ms 6.0 Queen Charlotte Islands region.	
23.	WIT: eP HEE: eP	16 16	23 22	03.0 52.0						38.3N 25.6E, H:16 18 31.1 h 33 km. Mb 4.7 Aegean Sea.	
24.	WIT: ePKP HEE: ePKP	00 00	26 26	34.0 38.5						ISC: 21.0S 178.7W, H: 00 07 53.7, h 619 km. Fiji region.	
24.	WIT: iP HEE: ePKP	18 18	00 00	17.1 21.5	- +					20.2S 168.9E, H:17 40 43.1 h 36 km. Mb 5.1 Loyalty Islands.	
24.	HEE: ePKP	18	55	41.0						ISC: 20.2S 168.8E, H: 18 36 01.5, h 42 km. Loyalty Islands.	
25.	DBN: eL F HEE: eP e	17 17 16 16	04 36 41 41	17.5 46.0						10.4N 85.1W, H:16 29 00.5 h 66 km. Mb 5.2 Costa Rica.	
26.	HEE: e	03	00	32.0						No determination of epicenter.	
26.	DBN: eL F HEE: eP	15 16 15	54 13 19	22.0						34.5N 141.4E, H:15 06 43.2 h 49 km. Mb 5.2, Ms 4.7 Off east coast of Honshu, Japan.	
26.	WIT: ePKP HEE: ePKP	23 23	08 08	33.0 39.0						20.6S 169.0E, H:22 48 56.0 h 79 km. New Hebrides Islands.	
27.	HEE: eP e	03 03	49 53	29.5 21.5						19.5S 69.1W, H:03 36 13.6 h 103 km. Mb 5.5 Northern Chile.	
27.	DBN: eL F	21 22	21 02							No determination of epicenter	

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
FEB. 1976											
28.	DBN: eSP eSS eL F	16 17 17 18.6	56 02 20	40 52		20			2.1 5.7		40.0S 74.7W, H:16 27 09.0 h 9 km. Mb 6.0, Ms 5.5 Off coast of southern Chile.
29.	HEE: ePn eSn eSg	03 03 03	41 41 42	11.0 49.0 06.0							47.9N 8.6E, H:03 40 18.0 h 35 km. Southern Germany.
29.	HEE: ePKP	19	53	00.0							15.2S 173.6W, H:19 33 27.3 h 33 km. Mb 5.2 Tonga Islands.
29.	WIT: iP HEE: iP	20 20	43 43	02.0 07.5	- -						17.7S 178.7W, H:20 24 24.9 h 540 km. Mb 4.7 Fiji Islands region.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976											
2.	HEE: ePKP	11	10	11.0							6.3S 154.8E, H:10 51 09.6 h 61 km. Mb 5.7 Solomon Islands.
2.	DBN: eL F HEE: ePKP2	17 18 17 48 16 07		12.5							32.7S 178.1W, H:15 46 26.8 h 33 km. Mb 4.8, Ms 4.9 South of Kermadec Islands.
2.	DBN: eL F HEE: ePP	19 49.0 20 05 19 45		05.0							40.7N 19.7E, H:19 41 36.4 h 27 km. Mb 4.9, Ms 4.2 Albania.
4.	DBN: eL F	23 48 00 19									8.2S 121.4, H:22 50 10.0 h 30 km. Mb 6.0, Ms 5.0 Flores Islands region.
4.	HEE: iPKP	02 11		32.5	-						19.4S 169.2E, H:01 52 05.9 h 124 km. Mb 4.9 New Hebrides Islands.
4.	DBN: ePKP iPP ISKP i iPPP iPS iPPS eSS eSSS eL F WIT: ePKP e i eSKP HEE: ePKP i eSKP	03 09 12 03 12 20 03 12 43 03 13 21 03 15 36 03 23 00 03 24 42 03 30 36 03 36.0 03 46 05.8 03 09 12.0 03 09 15.5 03 09 21.0 03 12 45 03 09 15.5 03 09 18.0 03 12 48.0			+	7	2.7				14.7S 167.1E, H:02 50 00.5 h 90 Km. Mb 6.4 New Hebrides Islands.
4.	DBN: eL F HEE: eP	10 39 10 52 10 34		38.0							71.1N 6.5W, H:10 29 57.1 h 33 km. Mb 4.4 Jan Mayen Island region.
5.	HEE: iPKP	00 29		05.0	+						16.2S 176.2W, H:00 10 04.5 h 324 km. Mb 4.9 Fiji Islands region.
5.	HEE: i	12 48		56.5	+						43.7N 12.4E, H:12 47 06.6 h 33 km. Mb 5.3 Central Italy.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms	
		h	m	s			Z	NS	EW			
MARCH 1976												
6.	WIT: ePKP HEE: ePKP	15	25	38.0 41.5							7.3S 155.4E, H:15 06 34.4 h 45 km. Mb 5.8, Ms 5.2 Solomon Islands.	
6.	DBN: eL F WIT: eP HEE: eP	20	36.0 50 31 31			20			5.3	4.8	66.5N 17.9W, H:20 26 56.0 h 5 km. Mb 4.7 Iceland region.	
7.	DBN: eL F WIT: eP HEE: eP	03	33 in next shock 06 06								14.7N 91.0W, H:02 54 04.2 h 5 km. Mb 5.1, Ms 4.7 Guatemala.	
7.	DBN: eL F WIT: eP i HEE: eP	03	54 33 28 28 28								14.8N 90.9W, H:03 15 41.2 h 5 km. Mb 5.1, Ms 5.0 Guatemala.	
7.	DBN: eL F HEE: eP	10	24 36 55								17 17 17	44.4N 130.0W, H:09 43 20.4 h 33 km. Mb 5.2, Ms 4.5 Off coast of Oregon.
8.	DBN: ePKP iPP ePKS eSPP iH eSS eSSS eL F WIT: ePKP ePP HEE: ePKP ePP	04	59 01 02 13 15 19 25 44 07.0 59 01 59 01	14 50 42 55 12 48 00	+						12.0 44.5 14.5 55	10.7S 165.0E, H:04 39 55.9 h 47 km. Mb 6.1, Ms 5.9 Santa Cruz Islands.
8.	DBN: eL F	18	17 00									28.3S 176.6W, H:16 48 38.6 h 38 km. Mb 5.2 Kermadec Islands region.
8.	HEE: ePKP2	19	12	42.0								29.1S 177.0W, H:18 52 13.3 h 33 km. Mb 4.9 Kermadec Islands.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976	8.	DBN: ePKP	20	25	52	+					11.8S 166.4E, H:20 06 33.3 h 72 km. Mb 5.6 Santa Cruz Islands.
		iPP	20	28	38						
		ePKS	20	29	36						
		ePS	20	39	00						
		eSPP	20	40	52						
		eSS	20	47.0							
		eSSS	20	52.0							
		eL	21	02		22		3.6			
		F	22.7								
		WIT: ePKP	20	25	48.5						
	HEE: ePKP	20	25	52.0							
8.	WIT: ePKP	22	25	22						18.4S 176.0E, H:22 05 46.4 h 33 km. Mb 4.8 Fiji Islands region.	
	HEE: ePKP	22	25	25.0							
8.	HEE: e	22	33	16.0						No determination of epicenter	
9.	HEE: iP	07	55	04.0	+					14.9S 90.0W, H:07 42 37.3 h 5 km. Mb 5.2, Ms 4.3 Guatemala.	
9.	DBN: eL	11	38							29.3S 177.3W, H:10 16 05.8 h 72 km. Mb 5.1 Kermadec Islands.	
	F	12	35								
	HEE: ePKP2	10	36	31.0							
9.	DBN: eL	14	45							37.3N 116.4W, H:14 00 00.1 h 0 km. Mb 6.0, Ms 4.8 Southern Nevada.	
	F	15	00								
	WIT: iP	14	11	59.0	+						
	e	14	12	17.5							
	HEE: iP	14	12	04.5	+						
10.	WIT: iP	03	33	40.0	-					21.2S 178.8W, H:03 14 58.0 h 580 km. Mb 5.1 Fiji Islands region.	
	HEE: iP	03	33	44.5	-						
	i	03	33	53.0	+						
10.	DBN: eP	09	15	23	+					16.8N 61.1W, H:09 05 01.1 h 77 km. Mb 5.9 Leeward Islands.	
	iS	09	24	05							
	eL	09	33.0			22			12.2		
	F	10	36			21	8.3				
	WIT: iP	09	15	24.9	+						
	ipP	09	15	43.8	+						
	HEE: iP	09	15	20.0	+						
11.	DBN: eL	19	07							27.4N 130.1E, H:18 14 44.5 h 36 km. Mb 5.2 Ryukyu Islands.	
	F	19	22								
	WIT: eP	18	27	29.0							
	HEE: eP	18	27	36.0	+						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976											
12.	DBN: eL F	17 18	52 15								17.2N 147.1E, H:16 52 47.3 h 48 km. Mb 5.0 Mariana Islands region.
13.	DBN: eL F HEE: ePKP e	06 07.2 05 05	22 41 42	48 16.0							6.3S 154.7E, H:05 22 44.0 h 50 km. Mb 5.5, Ms 6.1 Solomon Islands.
13.	DBN: eL F WIT: iP HEE: iP	17 17 16 16	09 47 43 43	11.0 10.0	+						14.8N 91.1W, H:16 30 41.5 h 5 km. Mb 5.4, Ms 5.1 Guatemala.
14.	DBN: eL F WIT: iP i HEE: iP i ePP	13 13 12 12 12 12	11 55 41 42 42 42	58.9 05.1 04.5 22.0 51.5	+						37.3N 116.5W, H:12 30 00.2 h 0 km. Mb 6.3, Ms 5.3 Southern Nevada.
14.	HEE: eP	13	00	07.5							4.0N 85.8W, H:12 47 18.9 h 33 km. Mb 4.9 Off coast of Central America.
14.	HEE: ePKP	16	03	10.0	-						17.2S 177.7W, H:15 44 23.7 h 506 km. Mb 4.8 Fiji Islands region.
16.	DBN: eL F WIT: eP HEE: iP	07 08.4 07 07	53 37 37	02.5 01.5	+						27.3N 55.1E, H:07 28 57.6 h 33 km. Mb 5.4, Ms 5.2 Southern Iran.
17.	WIT: iP HEE: iP	14 14	26 27	59.0 04.5	+						37.3N 116.3W, H:14 15 00.1 h 0 km. Mb 6.1, Ms 4.5 Southern Nevada.
17.	WIT: iP HEE: iP	14 14	56 57	59.0 04.5	+						37.1N 116.1W, H:14 45 00.1 h 0 km. Mb 5.8, Ms 4.2 Southern Nevada.
17.	WIT: epPKP HEE: epPKP	22 22	06 06	22.5 26.5							24.5S 178.4E, H:21 45 13.7 h 594 km. Mb 5.0 South of Fuji Islands.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976											
18.	WIT: ePKP epPKP HEE: iP e epPKP	20 20 20 20 20	04 06 04 04 06	20.0 23.5 26.0 39.5 21.5	+						24.6S 179.9E, H:19 45 20.2 h 455 km. Mb 5.0 South of Fuji Islands.
19.	HEE: ePKP2	02	38	46							30.0S 177.1W, H:02 18 15.0 h 42 km. Mb 5.0 Kermadec Islands.
19.	DBN: eL F WIT: iP ePP HEE: iP ePP	13 14 13 13 13 13	27 09 11 13 11 13	 52.5 35.0 57.5 35.0	- - -	20		4.5	5.4		36.6N 67.8E, H:13 03 38.4 h 33 km. Mb 5.6, Ms 5.5 Hindu Kush region (49 killed).
20.	DBN: iS eSS eL F WIT: eP HEE: eP	01 01 01 02.9 01 01	30 36.0 47 02.9 19 19	04 30.0 37.5	+	19		9.5	9.5	6.2	24.3N 121.8E, H:01 06 58.7 h 40 km. Mb 5.5, Ms 5.7 Taiwan.
20.	DBN: eL F WIT: e(P) HEE: eP e	04 04 04 04 04	27 33 11 11 11	 45.0 48.5 54.5							50.1N 77.3E, H:04 03 39.3 h 0 km. Mb 5.1 Eastern Kazakh SSR.
20.	HEE: ePKP	14	06	18.0							21.6S 179.3W, H:13 47 33.9 h 622 km. Mb 5.2 Fiji Islands region.
20.	DBN: eL F HEE: ePKP2	19 20.1 18	27 20	 13.0							39.1S 177.1E, H:17 58 58.5 h 51 km. Mb 5.4, Ms 5.5 Off east coast of North Island, New Zealand.
20.	HEE: iP PKP2	18	26	33.0	+						39.2S 177.1E, H:18 05 29.3 h 45 km. Mb 5.4 Off east coast of North Island, New Zealand.
23.	DBN: eL F	15 16	41 43								6.3S 154.8E, H:14 36 39.2 h 55 km. Mb 5.3 Solomon Islands.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms			
		h	m	s			Z	NS	EW					
MARCH 1976	24.	DBN: iPKP	05	05	59	+	11	12.2			29.9S 177.9W, H:04 46 04.4 h 33 km. Mb 6.4, Ms 6.8 Kermadec Islands.			
		iPKP2	05	06	38	-								
		iPKS	05	09	37									
		iPP	05	10	07									
		iPPP	05	13	56									
		iPcPP'	05	16	28									
		iPPP	05	18	53									
		iSKKS	05	20	25									
		iSPP	05	23	30									
		eSS	05	30.3										
		eSSS	05	36.6										
		eL	05	46								22	39.0	7.2
		F	08.7											
		WIT: ePKP	05	05	58.0	+								
		i	05	06	13.7	-								
iPKP2	05	06	32.5											
HEE: ePKP	05	05	59.0	+										
i	05	06	17.0	+										
iPKP2	05	06	35.5											
ePP	05	10	11											
24.	WIT: iPn	06	44	55.5	+					BNS: 51.4N 7.1E, H:06 44 31 Germany.				
		iSn	06	45	13.0									
		HEE: e(Pn)	06	44	52.5						+			
		i	06	45	09.5						-			
24.	DBN: eL	10	45							56.1S 27.4W, H:09 45 43.0 h 33 km. Mb 5.9 South Sandwich Islands region.				
		F	10	53										
25.	DBN: eL	02	43							36.9S 98.1W, H:01 41 26.9 h 33 km. Mb 5.0 Southern Pacific Ocean.				
		F	02	55										
25.	DBN: eL	09	05							7.5N 94.3E, H:08 16 30.3 h 33 km. Mb 5.3, Ms 4.8 Nicobar Islands region.				
		F	09	21										
		WIT: eP	08	28	53.0									
		HEE: eP	08	28	59									
25.	DBN: eL	09	40							8.3N 125.7E, H:08 41 30.5 h 59 km. Mb 5.2 Mindanao, Philippine Is.				
		F	09	52										
25.	HEE: ePn	11	16	29.0						47.5N 10.8E, H:11 15 19.0 h 33 km. Austria.				
		e	11	16	48.0									
		iSn	11	17	26.0									

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976											
25.	DBN: eL F	12	12								41.1N 43.0E, H:11 55 39.4 h 18 km. Mb 4.8 Turkey-USSR border region.
25.	DBN: eL F HEE: eP e	21	27.0								71.7N 1.9W, H:21 16 33.6 h 33 km. Mb 4.7 Jan Mayer Island region.
25.	DBN: iSP eSS eL F	22	41	48		19			8.7	6.2	1.2N 90.6W, H:22 16 10.6 h 33 km. Mb 5.5, Ms 5.8 Galapagos Islands region.
26.	DBN: eL F	11	25								36.6N 33.9W, H:11 08 13.7 h 33 km. Mb 4.7 Azores Islands region.
26.	WIT: e	22	30	06.0							47.6N 9.4E, H:22 28 32.3 h 33 km. Mb 5.2 Germany.
27.	WIT: ePKP ePKP2	02	55	04							30.2S 177.9W, H:02 35 08.1 h 36 km. Mb 5.4, Ms 5.4 Kermadec Islands.
27.	DBN: eL F	09	49								38.8S 78.3E, H:08 49 32.0 h 33 km. Mb 5.6, Ms 5.9 Mid-Indian Rise.
27.	WIT: ePKP iPKP2 HEE: ePKP iPKP2	20	01	51.0							30.6S 178.2W, H:19 42 00.8 h 59 km. Mb 5.8 Kermadec Islands.
27.	WIT: eP HEE: iP i	23	27	07.0	-						3.9N 85.9W, H:23 14 16.3 h 33 km. Mb 5.2 Off coast of Central America.
28.	HEE: eP	00	32	05.0							4.0N 85.8W, H:00 19 16.8 h 33 km. Mb 5.0, Ms 4.3 Off coast of Central America.
28.	HEE: ePKP	02	00	44							13.8N 144.7E, H:01 42 27.3 h 116 km. Mb 5.5 Mariana Islands.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976											
28.	HEE: eP	07	07	03.0							52.7N 167.2W, H:06 55 15.2 h 36 km. Mb 5.2, Ms 4.8 Fox Islands, Aleutian Is.
28.	DBN: iPP	20	28	12							33.8N 38.6W, H:20 19 45.6
	iS	20	32	30							h 33 km. Mb 5.5, Ms 5.8
	eSS	20	34	56							North Atlantic Ridge.
	eL	20	36.0			18		20.5		5.9	
	F	21	31								
	WIT: eP	20	26	56.6	-						
	HEE: iP	20	26	49.5	-						
	i	20	26	58.5	+						
29.	DBN: iP	05	52	22	+						3.9N 85.9W, H:05 39 35.5
	iS	06	02	56							h 33 km. Mb 5.9, Ms 6.5
	iPPS	06	04	24							Off coast of Central
	iH	06	07	38							America.
	iSS	06	08	56							
	eSSS	06	12.2								
	eL	06	15			19		13.6		13.0	6.3
	F	08.5									
	WIT: eP	05	52	26.0							
	i	05	52	33.5	+						
	i	05	52	41.5	-						
	HEE: iP	05	52	24.0	+						
	i	05	52	31.0	-						
29.	WIT: iPKP	12	10	54.3	+						17.1S 179.1W, H:11 52 19.3
	HEE: iPKP	12	10	59.5	-						h 543 km. Mb 4.9 Fiji Islands region.
29.	WIT: iP	20	00	14.4	+						46.0N 149.5E, H:19 48 39.8
	e	20	00	55.5							h 162 km. Mb 5.5
	e	20	01	36.5							Kuril Islands.
	HEE: iP	20	00	24.5							
30.	DBN: eL	06	36			20		3.2		5.7	39.7N 143.2E, H:05 53 14.3
	F	07.4									h 42 km. Mb 5.4, Ms 4.9
	WIT: eP	06	05	24.5							Off east coast of Honshu,
	HEE: eP	06	05	33.0							Japan.
30.	WIT: iP	06	16	26.1							39.5N 143.3E, H:06 04 14.5
	HEE: eP	06	16	34.5							h 40 km. Mb 5.3, Ms 4.7 Off east coast of Honshu, Japan.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MARCH 1976	31. DBN: eS	00	09	45		18	2.9		4.7	58.4N 31.8W, H:00 01 00.3 h 11 km. Mb 5.1, Ms 4.5 North Atlantic Ocean.	
	eL	00	11.1								
	F	00	35								
	WIT: iP	00	05	58.5	-						
	HEE: eP	00	06	05.0	+						
	i	00	06	07.0	-						
31. DBN: iP	23	54	51	+	20		3.6	4.8	58.4N 31.9W, H:23 50 00.3 h 41 km. Mb 4.8 North Atlantic Ocean.		
eL	00	00.4									
F	00	23									
WIT: eP	23	54	57.5	+							
HEE: eP	23	55	01.0	+							
i	23	55	02.5	+							

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
APRIL 1976.	1. DBN: eL F	05	00								51.1N 98.0E, H: 04 31 16.7 h 33 km. Mb 5.2, Ms 4.7 USSR-Mongolia border region.
	1. HEE: ePKP	06	37	56.0	+						15.0S 173.7W, H: 06 18 22.8 h 33 km. Mb 5.3, Ms 4.6 Tonga Islands.
	1. DBN: eL F	18	08								16.3S 73.2W, H: 17 17 36.0 h 91 km. Mb 4.9 Near Coast of Peru.
	1. HEE: eP epP	19	32	56.5							6.8N 73.0W, H: 19 21 14.4 h 160 km. Mb 5.2 Northern Colombia.
	1. WIT: ePKP HEE: epPKP	21	23	15.5							12.9S 166.4E, H: 21 03 57.3 h 84 km. Mb 5.8 Santa Cruz Islands.
	2. HEE: eP	08	43	54.5							7.1N 82.6W, H: 08 31 27.0 h 33 km. Mb 5.2 South of Panama.
	2. DBN: eL F	17	10								30.7S 178.1W, H: 15 49 58.1 h 33 km. Mb 5.1 Kermadec Islands.
	2. DBN: eL F WIT: eP HEE: eP e	17 18	51 26		+						36.0N 141.6E, H: 17 07 54.8 h 34 km. Mb 5.5, Ms 5.5 Near east coast of Honshu, Japan.
	3. DBN: eL F	01	11								52.2N 169.6W, H: 00 26 54.0 h 22 km. Mb 5.0, Ms 5.0 Fox Islands, Aleutian Is.
	4. HEE: eP	07	09	10.5	+						71.5N 8.8W, H: 07 04 22.0 h 33 km. Mb 4.4 Jan Mayen Island region.
4. WIT: ePKP HEE: ePKP	07	47	32.0							20.8S 178.4W, H: 07 28 51.3 h 594 km. Mb 4.9 Fiji Islands region	
4. HEE: ePKP	15	59	09.0							19.9S 178.2W, H: 15 40 25.1 h 596 km. Mb 4.7 Fiji Islands region.	

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
APRIL 1976.											
4.	WIT: ePKP	17	36	19.0							17.7S 178.7W, H: 17 17 44.9 h 573 km. Mb 5.0 Fiji Islands region.
4.	WIT: ePKP	18	00	47.0							20.1S 173.9W, H: 17 41 05.4 h 57 km. Mb 5.0 Tonga Islands.
	i	18	00	49.0	+						
	e	18	00	55.0	+						
	HEE: ePKP	18	00	49.5							
	e	18	00	51.5	+						
4.	DBN: eL	23	08								No determination of epicenter.
	F	23	25								
4.	WIT: iPKP	23	29	57.0	+						20.8S 178.8W, H: 23 11 20.3 h 635 km. Mb 4.9 Fiji Islands region.
	HEE: iPKP	23	30	02.0	+						
	e	23	30	09.0							
5.	DBN: eL	02	07								62.7S 167.4E, H: 00 35 06.3 h 33 km. Mb 5.3, Ms 5.6 Balleny Islands region.
	F	02	44								
5.	DBN: eL	11	05								15.2S 173.3W, H: 09 48 20.6 h 33 km. Mb 5.5, Ms 5.3 Tonga Islands.
	F	11	39								
	HEE: ePKP	10	07	54.0							
5.	DBN: eL	17	30			16		24.0		6.4	40.2N 112.2E, H: 16 54 40.1 h 27 km. Mb 5.3, Ms 5.5 Northeastern China.
	F	18.4									
	WIT: e	17	05	42							
	HEE: eP	17	05	47.0							
6.	DBN: ePP	14	09	51							3.9S 152.1E, H: 13 49 10.8 h 21 km. Mb 5.8, Ms 6.4 New Ireland region.
	eL	14	45			20		7.1		6.3	
	F	16.6									
	HEE: ePKP	14	08	19.5							
7.	HEE: ePKP	00	58	18.0							20.8S 173.9W, H: 00 38 28.0 h 33 km. Mb 4.8 Tonga Islands.
7.	DBN: eL	08	05								17.6N 145.5E, H: 07 10 15.8 h 217 km. Mb 5.5 Mariana Islands.
	F	08	20								
7.	WIT: ePKP	12	25	55.0							20.0S 173.8W, H: 12 06 12.4 h 33 km. Mb 5.1, Ms 4.8 Tonga Islands.
	HEE: ePKP	12	26	00							

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms						
		h	m	s			Z	NS	EW								
APRIL 1976.	8. DBN: iP	02	48	10	+	7	13.5			40.3N 63.8E, H: 02 40 27.0 h 33 km. Mb 6.5, Ms 7.0 Uzbek SSR.							
	iPP	02	49	39													
	iS	02	53	57													
	eL	02	57														
	F	06.6															
	WIT: iP	02	48	01.8													
	iPP	02	49	45.0													
	HEE: iP	02	48	07.5													
	iPP	02	49	44.0													
	eL	02	57														
	8. WIT: iP	03	06	41.0							-					40.2N 63.8E, H: 02 59 05.5 h 33 km. Mb 6.2 Uzbek SSR.	
	HEE: iP	03	06	47.0							-						
	9. DBN: iP	07	21	30							+	20	18.8		30.0	6.4 6.7	0.8N 79.8W, H: 07 08 47.0 h 9 km. Mb 6.1, Ms 6.7 Near coast of Ecuador. (8 killed).
	eH	07	31	40													
iS	07	32	09														
iSP	07	33	08														
eL	07	46															
F	11.2																
WIT: eP	07	21	35.0														
i	07	21	41.0														
HEE: iP	07	21	32.0														
i	07	21	38.0														
i	07	21	46.5														
9. HEE: ePKP	19	22	55.0						34.1S 178.6W, H: 19 02 05.6 h 21 km. South of Kermadec Islands.								
10. DBN: eS	01	03	39							39.7N 143.6E, H: 00 41 07.5 h 16 km. Mb 4.9 off east coast of Honshu, Japan.							
eL	01	21															
F	02	20															
WIT: eP	00	53	30.5														
10. WIT: eP	01	53	55.0														39.7N 143.5E, H: 01 41 44.1 h 33 km. Mb 5.0 Off east coast of Honshu, Japan.
10. DBN: eL	12	12															39.7N 143.5E, H: 11 26 41.2 h 33 km. Mb 4.9 Off east coast of Honshu, Japan.
F	12	33															
WIT: eP	11	38	53.0														

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms				
		h	m	s			Z	NS	EW						
APRIL 1976.	10. DBN: iPKP	17	30	44	-	5	3.6			17.7S 178.5W, H: 17 12 09.2 h 560 km. Mb 5.7 Fiji Islands region.					
	iZ	17	30	47	-										
	epPKP	17	32	54											
	eH	17	55.5												
	F	18	46												
	WIT: ePKP	17	30	43.5	-										
	i	17	30	44.2	-										
	i	17	35	17.0											
	HEE: iPKP	17	30	47.0	-										
	i	17	30	50.0											
	epPKP	17	33	00											
	i	17	35	22.5											
	11. WIT: eP	03	04	49.5											43.9N 146.3E, H: 02 53 02.6 h 97 km. Mb 5.1 Kuril Islands.
	11. WIT: iPKP	06	25	14.9											20.4S 178.0W, H: 06 06 30.8 h 554 km. Mb 5.0 Fiji Islands region.
HEE: ePKP	06	25	19.0	-											
e	06	25	26.0												
11. HEE: ePKP	08	12	19.0						ISC: 14.3S 169.3W, H: 07 52 50.1, h 33 km, Mb 5.0. Samoa.						
11. WIT: eP	13	14	15.0	-					42.9N 130.9E, H: 13 03 35.7 h 529 km. Mb 5.0 E. USSR-N.E. China Border region.						
epP	13	16	11.0												
HEE: eP	13	14	24.0	-											
epP	13	16	20.5												
12. DBN: eL	05	19							52.4N 170.2W, H: 04 41 51.4 h 38 km. Mb 5.2, Ms 4.9 Fox Islands, Aleutian Islands.						
F	05	55													
WIT: eP	04	53	32.0												
12. HEE: ePKP2	23	10	18.0						32.7S 179.W, H: 22 49 50.3 h 143 km. Mb 5.5 South of Kermadec Islands.						
13. DBN: e	20	28	42						Local Shock?						
F	20	28	49												
13. DBN: iS	20	41	22						18.5N 104.8W, H: 20 17 48.2 h 33 km. Mb 5.3, Ms 4.9 Near coast of Jalisco, Mexico.						
eL	20	59													
F	21	44													
14. WIT: ePKP	01	04	53.5						14.9S 177.8W, H: 00 46 05.3 h 367 km. Mb 4.9 Fiji Islands region.						
HEE: ePKP	01	04	57.0												

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms					
		h	m	s			Z	NS	EW							
APRIL 1976.	14. DBN: eL	14	45								23.2N 120.8E, H: 14 00 46.0 h 33 km. Mb 5.5 Taiwan.					
	F	15	18													
	WIT: eP	14	13	25.5												
	HEE: eP	14	13	27												
14.	DBN: eL	16	43		21	2.2	2.2	6.0			51.9S 139.5E, H: 15 26 16.8 h 33 km. Mb 5.4, Ms 6.2 South of Australia.					
	F	17.8														
	WIT: ePKP	15	46	13.5												
	e	15	46	19.5												
HEE: ePKP	15	46	07.5													
	i	15	46	17.5												
16.	DBN: eL	17	35		+						7.5N 94.4E, H: 16 51 31.2 h 22 km. Mb 5.2 Nicobar Islands region.					
	F	18	28													
	WIT: eP	17	03	54.5												
	HEE: eP	17	03	57												
18.	DBN: ePS	00	49	28							53.2S 25.3E, H: 00 21 24.5 h 33 km. Mb 5.4, Ms 5.4 South of Africa.					
	eSS	00	55.0													
	eL	01	11													
	F	01.8														
18.	WIT: ePKP	11	40	04.5	-						20.5S 178.5W, H: 11 21 26.5 h 613 km. Mb 4.5 Fiji Islands region.					
	HEE: ePKP	11	40	09.0												
18.	DBN: eL	15	35								No determination of epicenter.					
	F	16	07													
19.	WIT: eP	00	32	36.0	-						35.7N 24.6E, H: 00 27 52.4 h 74 km. Mb 4.8 Crete.					
	e	00	32	38.5								+				
	HEE: iP	00	32	25.0								-				
19.	DBN: eL	11	34		20	2.7	5.6				40.2N 143.2E, H: 10 50 53.3 h 17 km. Mb 5.3, Ms 5.5 Off east coast of Honshu, Japan.					
	F	12	21													
	WIT: eP	11	03	03.5								+				
	HEE: eP	11	03	13.5												
19.	WIT: eP	11	27	39.0							9.5N 84.3W, H: 11 15 15.5 h 36 km. Mb 4.9, Ms 5.2 Costa Rica.					
	HEE: eP	11	27	38.0												
20.	WIT: iP	06	22	55.8	+						17.8S 178.7W, H: 06 04 17.7 h 523 km. Mb 4.7 Fiji Islands region.					
	HEE: ePKP	06	22	58.0												
20.	DBN: eL	09	35								7.2S 155.1E, H: 08 30 35.7 h 33 km. Mb 5.1, Ms 5.5 Solomon Islands.					
	F	10	11													

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
APRIL 1976.											
20.	HEE: iPKP	20	55	11.5	+						16.1S 175.3W, H: 20 36 12.1 h 331 km. Mb 4.4 Tonga Islands.
21.	HEE: eP	05	06	12.0							49.8N 78.2E, H: 04 57 57.6 h 0 km. Mb 5.1 Eastern Kazakh SSR.
21.	HEE: eP	05	11	14.0	+						49.9N 78.8E, H: 05 02 57.4 h 0 km. Mb 5.3 Eastern Kazakh SSR.
21.	WIT: eP HEE: eP	14 14	49	10.0 14.5							40.3N 63.8E, H: 14 41 34.6 h 33 km. Mb 5.0 Uzbek SSR.
21.	HEE: ePKP	17	10	54.0							ISC: 15.2S 172.2W, H: 16 51 19.7, h 33 km, Mb 4.7. Samoa.
21.	WIT: e HEE: e e	19 19 19	22	20 24.0 38.5							10.3N 92.9E, H: 19 09 59.6 h 33 km. Mb 5.7 Andaman Islands region.
21.	DBN: eL F HEE: eP e eL	20 20 20 20 20	06.7 12	56.0 02.5 06.2							43.4N 17.5E, H: 20 00 18.9 h 32 km. Mb 5.5 Yugoslavia.
21.	DBN: eL F	20 20	28 49								24.0N 122.3E, H: 19 41 20.1 h 38 km. Mb 5.4 Taiwan region.
21.	WIT: ePKP epPKP HEE: ePKP2 e	20 20 20 20	44 46	56.0 56.5 15.5 01.5							24.9S 179.9E, H: 20 25 58.4 h 501 km. Mb 5.4 South of Fiji Islands.
22.	DBN: eP eL F WIT: eP HEE: iP i	17 17 18 17 17 17	10 20 24	56 53.0 51.5 58.0	- -						28.7N 52.1E, H: 17 03 07.9 h 24 km. Mb 6.0, Ms 5.5 Southern Iran.
23.	WIT: iPKP	08	54	49.0							20.1S 177.8W, H: 08 36 06.9 h 564 km. Mb 5.1 Fiji Islands region.
23.	HEE: ePKP	17	35	44.0							18.3S 173.6W, H: 17 16 04.2, h 73 km. Mb 4.8. Tonga Islands.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
APRIL 1976.	24. DBN: eZ	01	38	37							34.1N 141.6E, H: 01 25 17.5 h 43 km. Mb 5.1, Ms 5.5 Off east coast of Honshu, Japan.
	eL	02	10								
	F	03.2									
	WIT: eP	01	37	51.5							
	HEE: eP	01	37	59.0							
24. DBN: eL	23	31								60.0N 29.6W, H: 23 20 01.3 h 33 km. Mb 4.4 North Atlantic Ocean.	
F	23	35									
WIT: eP	23	24	42.0								
25. DBN: iP	00	32	07	+	5	1.3				59.8N 30.0W, H: 00 27 24.4 h 33 km. Mb 4.7, Ms 4.2 North Atlantic Ocean.	
eL	00	37.4			18			3.1	4.7		
F	00	59									
WIT: eP	00	32	07								
HEE: eP	00	32	17.0								
25. DBN: eP	06	22	50	+						59.9N 29.9W, H: 06 18 07.6 h 33 km. Mb 4.7, Ms 4.5 North Atlantic Ocean.	
eL	06	28.5									
F	06	42									
WIT: eP	06	22	52.0	+							
HEE: eP	06	23	01								
25. WIT: eP	06	28	05.5							60.3N 29.6W, H: 06 23 23.0 h 33 km. Mb 4.2 North Atlantic Ocean.	
HEE: eP	06	28	15.0								
e	06	28	20.0								
25. HEE: iPKP	15	25	24.5							17.3S 176.7W, H: 15 06 23.7 h 349 km. Mb 4.9 Fiji Islands region.	
25. HEE: ePKP	16	01	19.5	+						16.2S 174.0W, H: 15 41 42.0 h 33 km. Mb 4.7 Tonga Islands.	
25. WIT: iPKP	21	06	33.2	-						20.5S 177.8W, H: 20 47 46.9 h 522 km. Mb 5.2 Fiji Islands region.	
HEE: iPKP	21	06	38.0	-							
e	21	06	44.5								
25. DBN: eL	23	26			18			1.7	5.7	47.6S 99.9E, H: 22 21 41.1 h 33 km. Mb 5.1, Ms 5.8 Southeast Indian Rise.	
F	00.9										
26. WIT: eP	05	05	09.5	+						28.7N 52.1E, H: 04 57 25.5 h 29 km. Mb 5.2 Southern Iran.	
HEE: eP	05	05	08.0								

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
APRIL 1976.											
27.	DBN: eL F	11	32								10.9S 165.9E, H: 10 17 54.0 h 36 km. Mb 5.3, Ms 4.8 Santa Cruz Islands.
28.	WIT: iPKP HEE: iPKP	02	32	51.7	+						17.9S 178.4W, H: 02 14 20.8 h 605 km. Mb 4.9 Fiji Islands region.
28.	WIT: iPKP HEE: iPKP	08	17	19.3	-						4.6S 149.9E, H: 07 59 19.7 h 521 km. Mb 5.6 Bismarck Sea.
29.	DBN: ePKP ePP eL F WIT: e	06	52	38	+	8	0.7				28.2S 176.9W, H: 06 32 49.0 h 62 km. Mb 5.3, Ms 6.1 Kermadec Islands region.
29.	WIT: iPKP HEE: iPKP	08	30	27.5							22.3S 179.6W, H: 08 11 44.0 h 596 km. Mb 4.9 South of Fiji Islands.
29.	DBN: eL F	14	26								62.8S 167.6E, H: 12 54 57.0 h 16 km. Ms 5.7 Balleny Islands region.
29.	DBN: eP eZ eS eL F WIT: eP HEE: eP	22	23	58	+						40.9N 42.9E, H: 22 18 09.1 h 44 km. Mb 5.0, Ms 5.5 Turkey-USSR border region.
29.	DBN: eL F HEE: eP	23	40								41.0N 42.9E, H: 23 23 15.7 h 11 km. Mb 4.8 Turkey-USSR border region.
30.	HEE: ePKP	05	35	07.0							ISC: 15.8S 172.7W, H: 05 15 32.3, h 33 km, Mb 4.4. Samoa.
30.	DBN: ePKP ePP eL F HEE: e	15	42	44							28.2S 176.6W, H: 15 22 50.8 h 33 km. Mb 5.1, Ms 5.3 Kermadec Islands region.
30.	WIT: eP HEE: eP	16	14	08							36.2N 24.6E, H: 16 09 32.8 h 116 km. Mb 4.6 Southern Greece.

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
1.	DBN: eL F HEE: eP	05 05 05	20.0 24 13								37.8N 15.0E, H: 05 10 25.1 h 38 km. Mb 4.4 Sicily
2.	HEE: ePKP	12	14	26.5							18.2S 167.9E, H: 11 54 52.0 h 26 km. Mb 4.5 New Hebrides Islands
2.	WIT: iPKP epPKP HEE: ePKP i epPKP	16 16 16 16 16	06 06 06 06 07	06.5 57.5 11.0 21.0 02.0	- +						23.3S 177.2W, H: 15 46 36.4 h 193 km. Mb 5.4 South of Fiji Islands.
2.	WIT: ePKP HEE: ePKP	17 17	45 45	40.5 43.0							5.2S 150.7E, H: 17 27 01.9 h 183 km. Mb 5.4 New Britain region.
3.	WIT: iPKP i HEE: ePKP	14 14 14	11 11 11	12.1 22.1 17.0	- - -						21.0S 174.1W, H: 13 51 25.9 h 33 km. Mb 5.1, Ms 4.8 Tonga Islands.
4.	DBN: eL F	04 04	38 49								8.1N 38.0W, H: 04 09 23.2 h 33 km. Mb 5.1, Ms 5.0 Central Mid-Atlantic Ridge.
4.	DBN: eL F WIT: eP HEE: eP	05 05 04 04	06 49 50 50	35.5 27							8.0N 38.0W, H: 04 40 46.5 h 33 km. Mb 5.5, Ms 5.5 Central Mid-Atlantic Ridge
4.	DBN: eL F HEE: eP	09 10 08	22 14 55	46							13.1N 87.6W, H: 08 43 27.3 h 33 km. Mb 5.3 Honduras
4.	DBN: iPKP iPKP2 iPP eSKKS iSKKS iPPS eSS eSSS eL F HEE: ePKP	14 14 14 14 14 14 14 14 15 17.0 14	16 17 21 28 31 35 42.0 47.0 08 17.0 16	32 36 22 08 52 16	+ -	8	1.4				44.6S 167.6E, H: 13 56 29.9 h 19 km Mb 6.0, Ms 6.6 South Island, New Zealand.
4.	DBN: ePKP ePP eL F WIT: ePKP i HEE: ePKP i	17 17 18 20 17 17 17 17	46 50 47 08 46 46 46 46	16 00 26.5 36.8 27 40		18	5.8		6.6		23.8S 175.5W, H: 17 26 31.9 h 40 km Mb 5.2, Ms 5.8 Tonga Islands region.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
4.	DBN: eL F	21	18								41.9N 126.2W, H: 20 37 19.1 h 33 km. Mb 4.8, Ms 4.3 Off coast of Northern Cali- fornia
5.	DBN: iPKP iPKP2 iPP ePPP iPcPP' iPPP iSPP eSS eL F WIT: ePKP iPKP2 HEE: ePKP i iPKP2	05	12	44	+	12	7.0				29.9S 177.8W, H: 04 52 51.0 h 35 km. Mb 6.2, Ms 6.8 Kermadec Islands.
		05	13	19	-						
		05	16	56							
		05	20	40							
		05	23	16							
		05	25	40							
		05	30	14							
		05	36.9								
		05	52								
		09.2				22	16.0			6.8	
		05	12	46.0							
		05	13	21.9	-						
		05	12	46	+						
		05	13	03	+						
		05	13	22							
5.	DBN: eL F	17	09								23.3N 126.2E, H: 16 20 19.1 h 15 km. Mb 5.0 Ryukyu Islands region.
5.	HEE: ePKP2	23	10	01							30.1S 177.7W, H: 22 49 28.7 h 48 km. Mb 5.3 Kermadec Islands.
6.	WIT: eP HEE: eP	18	03	53.5	+						34.7N 23.9E, H: 17 59 02.6 h 46 km. Mn 4.7 Crete
		18	03	44	+						
6.	WIT: eP HEE: iP	20	01	04.0							46.2N 13.3E, H: 19 59 06.7 h 33 km. Mb 4.5 Northern Italy
		20	00	47							
6.	DBN: iP iS eL F WIT: iP HEE: iP	20	02	10	+	10	60.0				46.4N 13.3E, H: 20 00 11.6 h 9 km. Mb 6.0, Ms 6.5 Northern Italy 965 killed.
		20	03	42							
		20	04.2								
		22.7									
		20	02	09.1	+						
		20	01	54	+						
6.	WIT: eP HEE: eP	21	09	37.0							46.2N 13.1E, H: 21 07 42.1 h 33 km Mb 4.6 Northern Italy
		21	09	21							
6.	HEE: eP	21	43	54							46.2N 13.3E, H: 21 42 15.6 h 33 km. Mb 3.6 Northern Italy.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
6.	WIT: eP HEE: eP	21	51	37.5 22							46.2N 13.2E, H: 21 49 42.8 h 33 km. Mb 4.0 Northern Italy.
6.	DBN: eL F	23 23	03 54								No determination of epicenter
6.	HEE: eP	23	08	45							46.2N 13.2E, H: 23 07 04.9 h 49 km. Northern Italy.
7.	DBN: eP eL F WIT: eP HEE: iP	00 00 00 00 00	25 27.6 43	48 46.0 31		14		4.9	4.2		46.2N 13.3E, H: 00 23 50.4 h 33 km. Mb 4.7 Northern Italy.
7.	WIT: eP HEE: iP	05 05	23 23	42.5 39	+ +						8.6S 74.7W, H: 05 10 49.3 h 133 km. Mb 5.3 Peru-Brazil Border region.
7.	DBN: eL F	19 19	19 58								28.0S 71.3W, H: 18 27 39.3 h 33 km. Mb 5.3, Ms 5.5 Near coast of Central Chile.
8.	DBN: eP eS eL F WIT: eP HEE: eP	00 00 00 00 00 00	23 27 29.0 38	53 44 45.5 08							72.3N 1.3E, H: 00 19 19.0 h 33 km. Mb 4.4 Norwegian Sea.
8.	WIT: e HEE: eP	03 03	12 11	11 47							46.2N 13.3E, H: 03 10 06.9 h 33 km. Northern Italy.
8.	HEE: eP	20	42	15							46.5N 13.0E, H: 20 40 36.8 h 33 km. Northern Italy
8.	DBN: eL F HEE: iP i	23 23 23 23	36.0 46	40 44	- -						39.4N 29.1E, H: 23 25 08.0 h 36 km. Mb 4.8 Turkey
9.	DBN: eP eL F HEE: eP i	00 00 01 00 00	55 57.5 23	43 27 29		14		9.6	4.6		46.2N 13.3E, H: 00 53 44.0 h 14 km. Mb 5.1 Northern Italy

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
9.	DBN: eL F	06 06	16 36								2.8S 139.0E, H: 05 14 58.2 h 43 km Mb 5.3, Ms 5.1 Near north coast of West Irian.
9.	WIT: eP HEE: eP	15 15	05 05	57.0 52							39.3N 29.1E, H: 15 01 19.0 h 27 km Mb 4.1 Turkey.
9.	WIT: ePKP e HEE: iPKP i	21 21 21 21	03 03 03 04	49.5 59.5 53 03	- + - +						7.5S 154.6E, H: 20 44 44.7 h 34 km. Mb 5.8 Solomon Islands.
10.	DBN: eL F WIT: eP HEE: eP	04 04 04 04	39.9 46 37 37								46.3N 13.1E, H: 04 35 55.1 h 31 km. Mb 4.4 Northern Italy
10.	DBN: eL F HEE: eP	19 19 18	17 26 53								29.3N 81.5E, H: 18 43 53.5 h 33 km. Mb 5.2, Ms 4.6 Nepal
10.	HEE: eP	23	58	44							39.3N 29.0E, H: 23 54 11.7 h 39 km. Mb 4.5 Turkey.
11.	HEE: eP	05	33	38							46.2N 13.1E, H: 05 31 58.7 h 33 km. Northern Italy
11.	DBN: eL F WIT: ePKP HEE: ePKP	11 12 10 10	02 25 17 17								7.6S 154.6E, H: 09 58 48.1 h 33 km. Mb 5.7, Ms 5.9 Solomon Islands
11.	DBN: eL F WIT: ePKP HEE: ePKP ePKP2	12 13 11 11 11	46 46 49 48 49								51.5S 139.7E, H: 11 29 06.2 h 33 km. Mb 5.6, Ms 6.1 South of Australia.
11.	DBN: ePKP eSS eSSS eL F WIT: ePKP2 HEE: ePKP2	16 16 16 16 16 16 16	10 33 39.5 57 in next shock 10 10	30 52 57 50.5 38							51.6S 139.7E, H: 15 50 41.6 h 33 km. Mb 5.8, Ms 6.6 South of Australia.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976	11. DBN: iP	17	04	05	-	20			160	6.3	37.6N 20.4E, H: 16 59 48.2 h 33 km. Mb 5.8, Ms 6.4 Ionian Sea.
	iS	17	07	28							
	eL	17	09.3								
	F	19	56								
	WIT: eP	17	04	01.0	-						
	i	17	04	04.9	+						
	i	17	04	08.7	+						
HEE: eP	17	03	44								
11. DBN: eL	20	02									No determination of epicenter
F	20	46									
11. DBN: eP	22	45	56		15				5.7	4.3	46.3N 13.0E, H: 22 44 00.2 h 11 km. Mb 5.2 Northern Italy
eL	22	48.0									
F	23	18									
WIT: eP	22	45	56.5								
i	22	46	06.4	+							
HEE: eP	22	45	39								
i	22	45	41	-							
11. HEE: e	23	02	56								No determination of epicenter
12. DBN: eL	05	25.5									39.4N 29.1E, H: 05 11 42.3 h 21 km. Mb 4.3 Turkey
F	05	28									
12. HEE: eP	16	54	12	+							7.4N 75.0W, H: 16 42 15.1 h 65 km. Mb 5.1 Northern Colombia
14. DBN: eP	06	35	19	+	17	3.7				5.5	10.8N 43.5W, H: 06 25 34.4 h 33 km. Mb 5.6, Ms 5.7 North Atlantic Ridge.
iZ	06	38	34								
iS	06	43	10								
eL	06	51.5									
F	08.0										
WIT: eP	06	35	25.0								
HEE: iP	06	35	17	-							
14. WIT: ePKP	13	45	31.5	+							6.4S 150.3E, H: 13 26 30.7 h 17 km. Mb 5.6 New Britain region.
HEE: ePKP	13	45	34.0	+							
14. DBN: eL	21	21									41.6N 143.7E, H: 20 40 14.1 h 35 km. Mb 5.2 Hokkaido, Japan region
F	21	54									
15. HEE: eP	04	27	56								46.2N 13.3E, H: 04 26 16.5 h 33 km. Mb 5.3 Northern Italy.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
15.	DBN: eSS eL F WIT: eP HEE: eP	08 08 09 08 08	29.5 34.0 32 18 18								4.5N 19.3E, H: 08 09 57.2 h 23 km. Mb 5.6 Zaire Republic.
15.	WIT: ePKP HEE: iPKP	20 20	06 06	03.0 07	+						17.7S 178.6W, H: 19 47 25.9 h 525 km. Mb 5.1 Fiji Islands region.
15.	DBN: iP iZ iS iSP eSS eSSS eL F WIT: eP HEE: eP	22 22 22 22 22 22 22 01.8 22 22	09 09 19 21 26.5 30.1 35 01.8 09 09	09 14 44 25	- +	6	2.1				11.6S 74.5W, H: 21 55 58.5 h 33 km. Mb 6.0, Ms 6.6 Peru (5 killed)
16.	DBN: eL F HEE: eP	09 09 08	12 21 46								48.8N 123.4W, H: 08 35 14.8 h 62 km. Mb 5.1 Vancouver Island region.
16.	WIT: e e HEE: e e	16 16 16 16	17 17 17 17	12.0 29 08 22							No determination of epicenter.
16.	DBN: eL F WIT: ePKP2 HEE: iPKP2	23 00 22 22	31 07 30 30		+						54.6S 132.5W, H: 22 10 31.2 h 33 km. Mb 5.5, Ms 5.1 South Pacific Cordillera
17.	DBN: iP iPP iS eSS eL F WIT: eP i iPP HEE: eP i iPP	03 03 03 03 03 07.3 03 03 03 03 03	06 07 12 15 18.0 07.3 06 06 07 06 06 07	25 53 37 24	+	10	19.0				40.4N 63.5E, H: 02 58 40.6 h 10 km. Mb 6.3, Ms 7.0 Uzbek SSR (6 killed)
17.	DBN: eL F WIT: eP HEE: eP	16 16 16 16	17.7 24 15 14								46.2N 13.0E, H: 16 13 17.9 h 34 km. Mb 5.1 Northern Italy

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976	18. DBN: eL	01	34.6								46.2N 13.0E, H: 01 30 10.1 h 33 km. Mb 5.2 Northern Italy
	F	01	38								
	WIT: e	01	32	14							
	HEE: eP	01	31	48							
18.	DBN: eL	02	50								16.8S 72.7W, H: 02 02 15.5 h 65 km. Mb 5.4 Near coast of Peru.
	F	03	03								
18.	DBN: eL	06	09								21.6S 173.3E, H: 04 54 52.3 h 52 km. Mb 5.2, Ms 5.4 New Hebrides Islands region
	F	07.1									
	WIT: ePKP	05	14	35							
	HEE: ePKP	05	14	40							
18.	WIT: ePKP	05	21	17.0	+						17.3S 179.0W, H: 05 02 37.5 h 500 km. Mb 4.6 Fiji Islands region.
	HEE: ePKP	05	21	23	+						
18.	DBN: eL	07	21			20	3.7				6.2 59.9S 154.1E, H: 06 04 47.0 h 33 km. Mb 5.3, Ms 6.2 West of Macquarie Island.
	F	08	41								
18.	DBN: eL	08	43.3								35.0N 25.4E, H: 08 30 21.4 h 73 km. Mb 4.8 Crete.
	F	08	57								
	WIT: e	08	35	28							
	HEE: eP	08	35	04							
18.	DBN: eL	15	22								No determination of epicenter.
	F	15	30								
18.	HEE: iP	16	53	53							16.2S 172.5W, H: 16 34 16.8 h 33 km. Mb 5.0 Samoa Islands region.
19.	DBN: iP	04	19	15	-						4.5N 75.8W, H: 04 07 15.8 h 157 km. Mb 5.9 Colombia.
	epP	04	19	55							
	iS	04	29	10							
	eL	04	41								
	F	05	36								
	WIT: eP	04	19	19.5							
	i	04	19	20.3	-						
	HEE: eP	04	19	16	-						
	i	04	19	17	-						
	ipP	04	19	57							
19.	DBN: eL	16	51								61.5S 154.8E, H: 15 26 48.3 h 33 km. Mb 5.4 Balleny Islands region
	F	17	31								
19.	DBN: eS	18	05	38							16.9N 85.5W, H: 17 43 59.6 h 43 km. Mb 5.3, Ms 4.5 Caribbean Sea
	eL	18	19			18			1.7	5.3	
	F	19.0									
	WIT: iP	17	55	56.1	+						
	HEE: iP	17	55	56	+						

SEISMOLOGICAL BULLETIN

Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
19.	DBN: ePKP	19	30	32							31.1S 177.8W, H: 19 10 41.7
	ePP	19	34	52							h 72 km. Mb 5.8
	eSS	19	55	00							Kermadec Islands region.
	eL	20	34								
	F	22.1									
	WIT: ePKP2	19	31	15.0							
	HEE: ePKP2	19	31	14	+						
20.	WIT: ePKP	05	18	46.5							15.9S 175.1W, H: 04 59 47.1
	HEE: iPKP	05	18	52	-						h 292 km. Mb 5.5
	ipPKP	05	20	10	+						Tonga Islands.
21.	DBN: eL	03	26								25.2N 109.7W, H: 02 42 07.7
	F	03	42								h 33 km. Mb 4.6
											Gulf of California.
21.	DBN: iP	04	25	04	-						3.7N 125.1E, H: 04 11 15.2
	ePP	04	29	24							h 173 km. Mb 5.9
	iSKS	04	35	28							Talau Islands.
	iS	04	36	44							
	eSS	04	44	00							
	eL	05	01								
	F	06.6									
	WIT: eP	04	25	02.0							
	HEE: eP	04	25	08							
	ePKKP	04	41	09							
21.	DBN: eL	09	48								39.3N 29.1E, H: 09 37 02.5
	F	09	58								h 28 km. Mb 4.3
											Turkey.
21.	DBN: eL	15	51								31.0N 141.6E, H: 15 04 17.2
	F	16	46								h 33 km. Mb 5.2, Ms 5.5
											South of Honshu, Japan.
22.	DBN: ePKP	03	19	12							5.6S 154.3E, H: 03 00 22.0
	ePP	03	21	16							h 115 km. Mb 5.8
	eL	03	59								Solomon Islands
	F	04	56								
	WIT: ePKP	03	19	11.0	+						
	HEE: ePKP	03	19	19	+						
22.	DBN: eL	11	15								5.6S 148.3E, H: 10 12 40.9
	F	12	16								h 174 km. Mb 5.9
	WIT: ePKP	10	31	19.0							New Britain region.
	HEE: iPKP	10	31	25	+						
23.	HEE: e	00	53	05							46.3N 13.1E, H: 00 51 12.6
											h 33 km. Mb 5.1
											Northern Italy.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms					
		h	m	s			Z	NS	EW							
MAY 1976	23.	DBN: ePd _{diff}	06	16	48	+	9	0.8			4.9S 153.7E, H: 06 01 14.6 h 103 km. Mb 5.8 New Ireland region.					
		iPKP	06	20	08	+										
		iPP	06	22	08											
		ePKS	06	23	20											
		iPS	06	32	00											
		eSS	06	39.1												
		eL	06	55												
		F	09.6													
		WIT: ePKP	06	20	08.0											
		e	06	20	29.0											
		e	06	20	59.0											
		HEE: ePKP	06	20	12	+										
	23.	DBN: iP	16	45	46	-						6	0.7			10.5S 78.3W, H: 16 32 33.0 h 73 km. Mb 5.9 Near coast of Peru.
		ipP	16	46	04											
	eSKS	16	56	14												
	iS	16	56	50												
	iSP	16	58	03												
	eSPP	16	58	42												
	eSSS	17	07.0													
	eL	17	17													
	F	19.1														
	WIT: eP	16	45	50.5												
	e	16	45	53.5												
	epP	16	46	10.0												
	HEE: eP	16	45	50												
	e	16	45	53												
	ipP	16	46	09												
24.	DBN: eL	06	37							31.2S 177.7W, H: 05 10 21.2 h 33 km. Mb 5.3, Ms 5.7 Kermadec Islands region.						
	F	07	25													
	HEE: ePKP2	05	31	01												
24.	DBN: iP	11	37	17		20		5.0	5.9	31.3N 141.6E, H: 11 24 25.2 h 33 km. Mb 5.7, Ms 5.7 South of Honshu, Japan.						
	eL	12	10													
	F	14.1														
	WIT: eP	11	37	12.0												
	HEE: eP	11	37	24												
24.	DBN: eL	11	38												11.5N 86.8W, H: 10 54 53.4 h 33 km. Mb 5.3, Ms 5.7 Near coast of Nicaragua.	
	F	in next shock														
24.	HEE: eP	17	54	01											45.7N 12.1E, H: 17 52 20.7 h 33 km. Mb 3.4 Northern Italy	
25.	WIT: ePKP	00	58	39.0											19.8S 169.0E, H: 00 39 08.4 h 70 km. Mb 5.1 New Hebrides Islands	
	HEE: ePKP	00	58	45	+											
	e	00	59	03												

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
25.	DBN: ePKP WIT: ePKP HEE: iPKP	03	46	52 49.0 57	+						18.0S 178.0W, H: 03 28 18.0 h 614 km. Mb 5.4 Fiji Islands region
25.	DBN: iP eL F WIT: iP e HEE: iP	08	20	44 50 in next shock 40.4 52.5 53	+	20		2.0	5.4		51.6N 159.4E, H: 08 09 08.3 h 33 km. Mb 5.3, Ms 5.2 Off east coast of Kamchatka
25.	DBN: iP eS eL F WIT: iP ipP HEE: iP	08	28	23 04 57 10.1 16.8 28.5 29	+						51.6N 159.4E, H: 08 16 45.8 h 43 km. Mb 5.5, Ms 4.8 Off east coast of Kamchatka
25.	DBN: eL F	12	55.9								71.6N 12.5W, H: 12 45 26.8 h 10 km. Mb 4.6 Jan Mayen Island region.
25.	DBN: eL F	14	15.4								71.6N 12.2W, H: 14 04 51.5 h 10 km. Mb 4.6 Jan Mayen Island region.
25.	DBN: iP eL F WIT: ePKP i i HEE: iP e	16	32	37 26 18.3 35.5 36.7 47.8 43 53	+	7	0.7				20.4S 169.2E, H: 16 13 04.3 h 60 km. Mb 5.4 New Hebrides Islands
25.	HEE: ePKP	18	20	52							17.4S 167.8E, H: 18 01 17.9 h 20 km. Mb 5.5 New Hebrides Islands
25.	DBN: eL F WIT: eP HEE: eP	18	54.8								39.3N 29.1E, H: 18 43 27.5 h 14 km. Mb 4.5 Turkey.
26.	DBN: eL F	00	26								No determination of epicenter.
27.	WIT: ePKP HEE: iP i	07	14	24.0 28 38	+						22.3S 179.5W, H: 06 55 40.2 h 576 km. Mb 5.0 South of Fiji Islands

SEISMOLOGICAL BULLETIN



Date MAY 1976	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
27.	DBN: eL F HEE: eP	10 11 10	58.3 01 51	44	+					47.9N 27.7W, H: 10 46 48.4 h 33 km. Mb 4.3, Ms 4.0 North Atlantic Ridge	
28.	WIT: ePKP HEE: ePKP	04 04	10 10	22.0 27						17.9S 178.6W, H: 03 51 50.8 h 605 km. Mb 4.6 Fiji Islands region.	
28.	DBN: eL F	09 09	06 35							20.6S 173.6W, H: 07 44 13.0 h 33 km. Mb 5.1 Tonga Islands.	
28.	DBN: eS eL F WIT: eP HEE: iP	23 23 23 23 23	11 13.1 29 07 06	00 02.0 56						39.3N 29.1E, H: 23 02 20.2 h 8 km. Mb 4.5 Turkey	
29.	DBN: eP iS iPPS eSS eSSS eL F WIT: eP HEE: iP	12 12 12 12 12 12 12 12 12	34 44 45 49.1 52.6 56 in next shock 34	52 24 16 48.0	+	19	130		7.2	24.6N 99.0E, H: 12 23 18.7 h 8 km. Mb 6.1, Ms 6.9 Yunnan Province, China.	
29.	DBN: eP eS eL F WIT: eP HEE: eP i	14 14 14 18.2 14 14 14	11 21 33 18.2 11 11 11	56 24 47.5 54 57	+					24.5N 98.7E, H: 14 00 18.5 h 10 km. Mb 6.0, Ms 7.0 Burma - China border region.	
29.	DBN: eL F HEE: eP	20 20 19	16 53 48	28	-	20	3.5		5.6	24.5N 98.9E, H: 19 36 55.7 h 32 km. Mb 5.2 Burma - China border region.	
29.	DBN: eL F	22 23	53.2 02							40.4N 28.8E, H: 22 42 09.5 h 14 km. Mb 4.0 Turkey.	
30.	DBN: ePP eSP eL F HEE: ePP	03 03 03 04.8 03	15 25 52 15 15	47 08 48		20	2.5		5.8	1.1S 127.0E, H: 02 56 39.6 h 33 km. Mb 5.5, Ms 5.5 Halmakera	

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
MAY 1976											
30.	DBN: ePP WIT: ePKP HEE: ePKP	03	28	43							41.6S 75.4W, H: 03 08 54.2 h 28 km. Mb 6.0, Ms 5.9 Off coast of southern Chile.
30.	DBN: eL F	04 05	58 28			20		3.2		5.6	24.4N 98.8E, H: 04 18 43.8 h 28 km. Mb 5.1 Burma - China Border region.
30.	DBN: eL F	22 22	35 51								No determination of epicenter
30.	DBN: eL F	23 23	11 22								24.5N 98.9E, H: 22 31 33.5 h 34 km. Mb 4.8 Burma - China border region.
31.	DBN: iP eS eL F WIT: iP e HEE: iP i	05 05 05 07.5 05 05 05 05	20 29 42 07.5 19 19 20 20	05 36 01 04	+ - - -					20 43.0 6.7	24.3N 98.6E, H: 05 08 28.5 h 14 km. Mb 5.5, Ms 6.2 Burma - China border region.
31.	DBN: eL F	09 09	38.0 41								47.9N 27.7W, H: 09 26 59.8 h 33 km. Mb 4.4 North Atlantic Ridge.
31.	DBN: eL F HEE: eP	19 20 18	13 11 46	37		20		7.1		6.9	24.4N 98.8E, H: 18 35 05.1 h 20 km. Mb 5.2, Ms 5.5 Burma - China border region.
31.	HEE: ePKP2	20	26	10							31.1S 178.0W, H: 20 05 33.0 h 98 km. Mb 4.9 Kermadec Islands region.
31.	HEE: ePKP2	20	59	26							31.2S 177.9W, H: 20 38 54.2 h 154 km. Mb 5.1 Kermadec Islands region.
31.	DBN: eL F	23 00.5	28								11.3S 165.3E, H: 22 22 13.9 h 21 km. Mb 5.3, Ms 5.2 Santa Cruz Islands.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
1.	WIT:ePKP	14	32	48.5	+						17.8S 178.8W, H:14 14 18.5 h 625 km. Mb 5.1. Fiji Islands region.
1.	DBN:eL F	23 23	30 53								16.9N 147.5E, H: 22 30 58.8 h 45 km. Mb 5.4. Mariana Islands region.
2.	DBN:eL F	20 21	11 03			18		1.3	1.3	5.8	62.8S 160.1W. H: 18 46 52.6 h 33 km. Mb 5.6, Ms 5.8 South Pacific Cordillera.
3.	WIT:ePKP	14	04	34							26.6S 178.3E, H: 13 45 43.8 h 617 km. Mb 5.6. South of Fiji Islands.
3.	DBN:ePdiff iPKP iPP iPKS ePS eSPP eSS eL F WIT:ePKP	17 17 17 17 17 17 17 17 20.3 17	00 03 05 06 15 16 22.5 37	16 33 33 50 30 56	+	8	1.5				5.2S 153.4E, H: 16 44 38.8 h 88 km. Mb 6.2. New Ireland region.
4.	DBN:eP eSSS eL F	00 01 01 02.2	53 05 10	12 21		20		3.4		5.4	24.6N 68.4E, H: 00 43 43.4 h 33 km. Mb 5.2, Ms 5.0. India-Pakistan border region.
4.	DBN:iP iS iSP eL F WIT:eP	04 04 04 05 06.8 04	35 46 47 03	56 12 00	+	18	8.5			6.1	38.3N 142.7E, H: 04 23 32.4 h 21 km. Mb 5.7. Ms 5.6. Near east coast of Honshu, Japan.
5.	DBN:ePP eSS eL F WIT:ePKP ePP	08 09 09 10 08 08	41 05.0 18	48							10.1S 161.0E, H: 08 20 07.2 h 61 km. Mb 6.2. Solomon Islands.
5.	WIT:e	21	14	02.5							No determination of epicenter.
6.	DBN:eS eL F WIT:eP	02 02 04.1 02	38 47	02		20			6.1	5.9	49.0N 127.9W, H: 02 17 17.4 h 33 km. Mb 5.2, Ms 5.3. Vancouver Island region.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
6.	DBN:eL F	04 45 05 23									10.1S 161.0E, H: 03 32 28.2 h 54 km. Mb 5.5, Ms 5.3. Solomon Islands.
6.	DBN:eL F WIT:eP	18 20 19.0 17 55 52.0		+							51.5N 178.0W, H: 17 44 09.1 h 54 km. Mb 5.2, Ms 4.9. Andreanof Is., Aleutian Is.
7.	DBN:eL F WIT:eP	06 28 07.0 06 00 56.5		+							48.8N 154.9E, H: 05 49 15.4 h 33 km. Mb 5.1, Ms 5.1 Kuril Islands.
7.	DBN:eL F WIT:eP e	08 18 in next shock 07 50 19.5 07 50 31.0			18		39.0		6.8		14.1N 124.8E, H: 07 36 55.4 h 33 km. Mb 6.1, Ms 6.4 Luzon, Philippine Islands.
7.	WIT:e PKP	08 38 41.0									ISC: 18.7S 176.9W, H: 08 19 29, h 250 km, Mb 4.7. Fiji region.
7.	DBN:eL F	10 11 11.3									14.1N 124.9E, H: 09 21 08.4 h 33 km. Mb 5.3. Luzon, Philippine Islands.
7.	DBN:iP iPP iS eSS eL F WIT:eP	14 39 17 14 42 36 14 50 02 14 55 22 15 04 17.9 14 39 19.5		+	7	5.7					17.4N 100.6W, H: 14 26 39.1 h 45 km. Mb 6.1, Ms 6.4. Guerrero, Mexico.
7.	DBN:ePKP eL F WIT:ePKP	21 12 13 22 10 23.0 21 12 10.5									21.2S 170.2E, H: 20 52 34.1 h 43 km. Mb 5.2, Ms 4.9 Loyalty Islands region.
8.	DBN:ePKP eL F	09 41 48 10 32 11 48									16.3S 167.3E, H: 09 22 17.6 h 13 km. Mb 4.8, Ms 5.6. New Hebrides Islands.
8.	DBN:eL F WIT:e	12 18.6 12 30 12 16 44.0									46.2N 13.3E, H: 12 14 38.0 h 21 km. Mb 4.2. Northern Italy.
8.	DBN:eL F	23 54 00 07									24.2N 98.7E, H: 23 14 31.0. h 33 km. Mb 4.5. Burma-China border region.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
9.	DBN:iP ePP eS eSS eSSS eL F WIT:eP	00	32	12	+						24,9N 98.8E, H: 00 20 39.5 h 33 km. Mb 5.7, Ms 5.9. Burma-China border region.
9.	WIT:eP	03	11	04.5		22		1.9		6.4	50.0N 79.1E, H: 03 02 57.6 h 0 km. Mb 5.4. Eastern Kazakh SSR.
9.	DBN:eP eS eL F WIT:eP	10	07	19		20		3.5		4.7	39.3N 29.0E, H: 10 02 33.4 h 16 km. Mb 4.5 Turkey
9.	DBN:ePP eSP eL F	14	47	05							4.9S 125.7E, H: 14 27 43.0 h 33 km. Mb 5.5, Ms 5.6 Banda Sea.
9.	DBN:eL F WIT:ePKP	17	33								6.5S 151.4E, H: 16 30 39.7 h 18 km. Mb 5.5. New Britain region.
9.	DBN:eL F	23	27								22.7N 120.8E, H: 22 40 58.0 h 40 km. Mb 5.1. Taiwan.
10.	DBN:eL F	15	30								No determination of epicenter. Because of clock-failure no seismic data for the station HEE are available for the period June 1 - June 10 1976.
11.	DBN:eL F WIT:eP HEE:eP	04	11								17.0N 60.6W, H: 03 41 58.3 h 42 km. Mb 5.3. Leeward Islands.
11.	DBN:eL F	05	31								39.9N 77.3E, H: 05 08 43.0 h 32 km. Mb 5.3. Southern Sinkiang Prov.China.
11.	DBN:eL F WIT:eP e HEE:iP	17	20.8								46.2N 13.0E, H: 17 16 42.0 h 48 km. Mb 4.2. Northern Italy.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
12.	DBN: iP iS eL F WIT: eP HEE: eP i	01 01 01 02 01 01 01	03 07 08.2 28 03 03 03	33 03 32.0 17.0 19.0	+ + +	6 22	9.6		13.3	5.3	37.5N 20.6E, H: 00 59 16.9 h 8 km. Mb 5.5, Ms 5.3 Ionian Sea.
12.	DBN: ePKP eL F	03 04.2 05.5	21 05								28.8S 176.5W, H: 03 01 11.3 h 43 km. Mb 5.1. Ms 5.2 Kermadec Islands region.
12.	DBN: ePKP eL F WIT: ePKP e HEE: ePKP i	05 06 07.8 05 05 05 05	46 48 46 46 46 46	53 50 56.5 50 57.0							21.4S 174.3W, H: 05 27 06.5 h 34 km. Mb 5.4, Ms 5.4 Tonga Islands.
12.	DBN: eL F	04 04	19 30								32.3N 40.3W, H: 04 00 36.6 h 33 km. Mb 4.5, Ms 4.3 North Atlantic Ridge.
13.	DBN: eL F	04 04	41 51								68.4N 17.7W, H: 04 31 22.2 h 33 km. Mb 4.6. Iceland region.
13.	DBN: eL F	05 05	35 42								68.9N 17.8W, H: 05 25 29.0 h 33 km. Mb 4.3 Iceland region.
13.	DBN: eP ePP eSKS eSP eSS eSSS eL F HEE: ePP	18 18 19 19 19 19 19 19 18	50 54 01 04 10.0 14.0 29 21.0 54	22 56 08 20 54.0		20		3.6		5.9	0.2S 125.0E, H: 18 36 03.1 h 33 km. Mb 5.7. Ms 5.7 Molucca Sea.
13.	WIT: eP HEE: iP	19 19	17 17	10.0 06.0	- -						19.0N 67.9W, H: 19 06 27.4 h 51 km. Mb 5.4. Mona Passage.
13.	DBN: eP ePP eS eL F HEE: iP	22 22 22 22 00.0 22	16 20 27 48 16	15 16 40 15.0	+ 	18			2.7	5.7	15.3S 75.4W, H: 22 02 47.6 h 33 km. Mb 5.6, Ms 5.6 Near coast of Peru.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Blit	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
14.	WIT:eP e HEE:eP	06 06 06	57 57 57	17.0 21.5 10.0	- - -						39.3N 29.2E, H: 06 52 37.5 h 28 km. Mb 4.7 Turkey.
14.	HEE:eP	14	06	28.0	+						15.9N 95.2W, H: 13 53 58.4 h 59 km. Ms 5.0 Near coast of Oaxaca, Mexico.
14.	DBN:eP eL F HEE:eP	18 18 19 18	13 42 40 13	30 33.0							51.8N 171.3W, H: 18 01 34.1 h 10 km. Mb 5.1, Ms 5.1 Fox Islands, Aleutian Islands.
14.	WIT:eP HEE:eP	20 20	25 26	55.5 06.0	+						53.1N 159.6E, H: 20 14 32.0 h 33 km. Mb 5.2. Near east coast of Kamchatka.
14.	WIT:ePKP HEE:ePKP	22 22	05 05	51.0 56.0	+						ISC: 17.2S 177.9W, H: 21 47 01.2, h 380 km. Fiji region.
15.	HEE:eP	00	12	44.0							34.2N 24.8E, H: 00 07 54.4 h 33 km. Mb 4.2. Crete.
15.	DBN:iPP eSKKS eSP eSS eL F	06 06 06 06 06 09	28 35 37 44.1 57 10	32 25 50 		20	7.6	7.5	6.3		0.5N 134.8E, H: 06 09 01.8, h 33 km. Mb 6.0, Ms 6.3 West Irian.
15.	WIT:iP HEE:iP	12 12	35 35	19.5 30.0	+						53.1N 159.6E, H: 12 23 55.1 h 32 km. Mb 5.4, Ms 4.5, Near east coast of Kamchatka.
15.	HEE:iPKP ₂ i	16 16	30 30	02.5 11.0	+						28.1S 178.5W, H: 16 09 57.4 h 185 km. Mb 4.9. Kermadec Islands region.
15.	DBN:eL F WIT:eP e HEE:eP e	23 23.7 22 22 22 22	20 48 48 48 48	 43.0 48.5 51.0 58.0							35.5N 139.0E, H: 22 36 18.3 h 28 km. Mb 5.4 Near South coast of Honshu, Japan.
15.	DBN:eP ePP eS eL F WIT:eP HEE:eP	23 23 23 23 01.2 23 23	44 46 51 58.6 44 44	14 20 56 58.6 21.5 06.0		21		5.5	5.6		1.4S 14.1W, H: 23 34 35.6 h 33 km. Mb 5.4, Ms 5.6 North of Ascension Island.

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
16.	HEE:eP	16	46	06.0							19.0N 67.9W, H: 16 35 26.5 h 55 km. Mb 5.1, Ms 4.0 Mona Passage.
17.	WIT:eP	02	56	02.5							57.4N 154.3W, H: 02 44 58.9 h 50 km. Mb 5.2
	epP	02	56	16.0							Kodiak Island region.
	HEE:eP	02	56	14.0							
	epP	02	56	26.5							
17.	DBN:eL	14	33.1								46.2N 12.9E, H: 14 28 49.2 h 24 km.
	F	14	38								Northern Italy.
	HEE:eP	14	30	30.0							
17.	HEE:ePKP	22	31	32.5							17.6S 167.7E, H: 22 11 59.4 h 19 km. Mb 4.8 New Hebrides Islands.
18.	DBN:ePKP	02	05	30							24.8S 175.4W, H: 01 45 37.3 h 33 km. Mb 5.6, Ms 5.6
	eL	03	06								South of Tonga Islands.
	F	04	16								
	WIT:ePKP	02	05	30.5	-						
	e	02	05	43.5							
	HEE:ePKP	02	05	27.5	+						
	e	02	05	35.0	-						
	e	02	05	47.5							
18.	DBN:eP	10	27	17	+						15.3S 75.5W, H: 10 13 51.0 h 33 km. Mb 5.6, Ms 5.5
	eL	10	55			18			2.0	5.6	Near coast of Peru.
	F	12.9									
	HEE:eP	10	27	18.5	-						
	e	10	27	28.5							
18.	DBN:eP	15	12	20							15.2W 75.4W, H: 14 58 53.6 h 32 km. Mb 5.7, Ms 5.2.
	eL	15	47								Near coast of Peru.
	F	16.7									
	HEE:eP	15	12	21.0	+						
18.	DBN:eL	19	09								3.2S 150.5E, H: 18 09 39.6 h 32 km. Mb 5.4, Ms 5.0
	F	20	18								New Ireland region.
18.	DBN:eL	23	38								3.2S 150.5E, H: 22 36 02.7 h 33 km. Mb 5.3, Ms 5.0
	F	00	05								New Ireland region.
19.	HEE:iPKP	07	57	50.5	-						18.7S 168.9E, H: 07 38 26.2 h 121 km. Mb 5.3
	e	07	58	23.5							New Hebrides Islands.
19.	DBN:eP	15	13	35							18.0S 65.4E, H: 15 00 46.7 h 33 km. Mb 5.6, Ms 6.1
	iS	15	24	16							Mascarene Islands region.
	eL	15	39			18			3.0	5.7	
	F	17.2									
	WIT:eP	15	13	31.0							
	HEE:eP	15	13	26.5							

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976											
19.	DBN:eL F	17	16								No determination of epicenter. 18.1
20.	DBN:iP iZ ePP iS iPS eL F WIT:iP i HEE:eP i	04	50	55	+						24.7N 125.9E, H: 04 38 08.0 h 36 km. Mb 5.8, Ms 5.8 Southern Ryukyu Islands
		04	51	09	-						
		04	54	31							
		05	01	37							
		05	02	46							
		05	20			20		10.6	10.6	6.2	
		06.8									
		04	50	50.4	-						
		04	51	04.5	+						
		04	50	56.0	-						
		04	51	11.5	+						
20.	DBN:iP iZ iPP iSS iSP eSS eL F WIT:iP i i ePP HEE:eP i i eP'P'	21	06	03	+						3.4N 96.3E, H: 20 53 13.4 h 33 km. Mb 6.3, Ms 7.0 Northern Sumatra.
		21	06	06	+						
		21	09	30							
		21	16	32							
		21	17	48							
		21	22	40							
		21	32.0			20			75	7.1	
		01.7									
		21	05	58.3	+						
		21	05	59.9	-						
		21	06	04.0							
		21	09	28							
		21	06	00.0							
		21	06	02.0	-						
		21	06	06.0							
		21	32	04.5							
20.	WIT:eP HEE:eP	23	41	29.5							40.4N 63.7E, H: 23 33 48.8 h 12 km. Mb 5.3 Uzbek SSR.
		23	41	34.5							
21.	WIT:eP HEE:eP	04	55	33.5							3.3N 96.4E, H: 04 42 50.1 h 45 km. Mb 5.2. Northern Sumatra.
		04	55	35.5							
21	DBN:eP eS eL F WIT:iP HEE:eP	07	30	28							3.4N 96.4E, H: 07 17 34.8 h 32 km. Mb 5.8, Ms 5.2 Northern Sumatra.
		07	41	12							
		08	02								
		09.1									
		07	30	21.0	(-)						
		07	30	22.0	+						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976	DBN:eP	02	37	00							3.4N 96.4E, H: 02 24 09.9 h 43 km. Mb 5.3 Northern Sumatra.
	eL	03	11								
	F	03	43								
	WIT:eP	02	36	53.5							
	HEE:eP	02	36	55.0							
22.	DBN:eS	12	22	37							3.4N 96.2E, H: 11 59 04.6 h 33 km. Mb 5.3, Ms 5.1. Northern Sumatra.
	eL	12	46								
	F	13.7									
	WIT:eP	12	11	50.5							
	HEE:eP	12	11	53.5							
23.	WIT:eP	01	20	42.0							3.3N 96.4E, H: 01 07 56.3 h 33 km. Mb 4.9. Northern Sumatra.
	HEE:eP	01	20	44.5	-						
23.	DBN:eL	04	48								71.8N 3.0W, H: 04 37 55.5 h 33 km. Mb 4.9 Jan Mayen Island region.
	F	04	53								
23.	DBN:eL	05	35								23.8N 123.4E, H: 04 47 16.3 h 40 km. Mb 4.8 South western Ryukyu Islands.
	F	05	45								
23.	DBN:ePP	11	08	36							2.2S 138.6E, H: 10 48 39.4 h 33 km. Mb 5.2, Ms 5.3 West Irian.
	eSS	11	25.0								
	eL	11	47		19		1.0	1.0	5.4		
	F	13.4									
23.	DBN:ePP	14	09	28							0.5N 134.8E, H: 13 49 58.0 h 33 km. Mb 5.8, Ms 5.7 West Irian.
	eSP	14	18	52							
	eL	14	43		20		2.1	2.1	5.7		
	F	16.6									
23.	DBN:eL	20	11								No determination of epicenter.
	F	20	28								
23.	DBN:eSP	21	12	20							59.7S 26.4W. H: 20 43 13.1 h 59 km. Mb 5.8, Ms 5.2 South Sandwich Islands region.
	eL	21	35								
	F	22.2									
24.	DBN:eP	06	12	26							3.4N 96.4E, H: 05 59 33.3 h 33 km. Mb 5.5, Ms 5.0 Northern Sumatra.
	eS	06	23	00							
	eL	06	48								
	F	07.6									
	WIT:eP	06	12	19.0							
	e	06	12	20.5	+						
	HEE:eP	06	12	20.5							
	e	06	12	22.0	+						
25.	DBN:eP	07	05	56							35.1N 23.3E, H: 07 01 08.0 h 33 km. Mb 5.0, Ms 5.4 Crete.
	eS	07	09	54							
	eL	07	12.6								
	F	07.7									
	WIT:iP	07	05	54.7	+						
	HEE:iP	07	05	43.0	+						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Bilt	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976	25.	DBN:eL	08	37							29.9N 138.6E, H: 07 47 46.3 h 433 km. Mb 5.5. South of Honshu, Japan.
		F	08	54							
		WIT:eP	07	59	48.0						
		HEE:iP	07	59	55.0	-					
25.	DBN:ePdiff	19	34	09	+	20	78			7.3	4.6S 140.1E, H: 19 18 56.9 h 33 km. Mb 6.1, Ms 7.1. West Irian. (422 killed, 5000-9000 repor- ted missing).
	iPP	19	39	06							
	iPKS	19	41	08							
	iSKS	19	44	46							
	iSKKKS	19	46	14							
	iPPS	19	48	56							
	eSS	19	55.6								
	eSSS	19	59.4								
	eL	20	09								
	F	00.5									
	WIT:ePdiff	19	34	14							
	ePKP	19	37	45.5							
	e	19	37	51.0							
	ePKKP	19	48	05.0							
	HEE:ePdiff	19	34	20.5							
ePKP	19	37	48.5								
ePKKP	19	48	05.5								
25.	WIT:ePKP	19	51	23.0							4.3S 139.9E, H: 19 32 36.5 h 33 km. Mb 5.9. West Irian.
	e	19	51	40.5							
	HEE:ePKP	19	51	26.0							
25.	WIT:ePKP	21	00	19.0							4.5S 139.9E, H: 20 41 31.3 h 33 km. Mb 5.3. West Irian.
	HEE:ePKP	21	00	22.0							
26.	WIT:ePKP	02	20	42.0							13.3S 167.1E. H: 02 01 40.3 h 208 km. Mb 5.0. New Hebrides Islands.
	HEE:ePKP	02	20	44.5							
	ePP	02	24	02.5							
26.	DBN:eL	03	52								3.8N 126.9E, H: 02 57 31.8 h 36 km. Mb 5.0, Ms 4.8 Talaud Islands.
	F	04	36								
26.	DBN:eP	10	45	10	+	18	25			6.7	3.7N 126.8E, H: 10 30 59.4 h 33 km. Mb 5.8, Ms 6.5 Talaud Islands.
	iPP	10	49	35							
	iSKS	10	55	52							
	iSP	10	58	43							
	ePPS	10	59	38							
	eSS	11	04.7								
	eL	11	21								
	F	14.0									
	WIT:eP	10	45	06.5							
	HEE:eP	10	45	11.0							
26.	WIT:e	11	15	55.0							46.2N 13.1E, H: 11 13 49.2 h 33 km. Mb 4.0 Northern Italy.
	HEE:eP	11	15	28.0	+						

SEISMOLOGICAL BULLETIN



Date	Phase	G.M. Time			First motion	Period s	Amplitude μ			Magnitude De Blit	Remarks Data without indication are from USGS; d.b.m. means disturbed by microseisms
		h	m	s			Z	NS	EW		
JUNE 1976	WIT:ePKP	14	47	58.5							21.9S 169.9E, H: 14 28 16.7 h 14 km. Loyalty Islands region.
	HEE:ePKP	14	48	04.0							
27.	DBN:iPKP	01	32	55	-						18.0S 178.3W, H: 01 14 18.7 h 581 km. Ms 5.2 Fini Islands region.
	ePP	01	36	16							
	WIT:ePKP	01	32	51.0							
	i	01	32	52.5	-						
	HEE:ePKP	01	32	54.5	-						
	i	01	32	57.5	-						
27.	HEE:e	11	42	03.0							No determination of epicenter.
27.	WIT:eP	16	12	55.0							ISC: 59.4N 30.7W, H: 16 08 07, h 33 km. North Atlantic Ocean.
	HEE:eP	16	13	00							
27.	DBN:eL	20	13								4.6S 140.2E, H: 19 12 29.3 h 33 km. Mb 5.9, Ms 5.6. West Irian.
	F	20	50								
	WIT:ePKP	19	31	18.0							
	HEE:ePKP	19	31	20.0							
	e	19	31	31.5							
	ePP	19	32	41.5							
27.	WIT:ePKP2	20	23	55.5							30.3S 177.7W, H: 20 03 33.8 h 44 km. Mb 5.1. Kermadec Islands.
	HEE:ePKP2	20	24	04.5	-						
	e	20	24	15.0							
	e	20	24	22.5							
28.	WIT:ePKP	00	17	57.0	+						17.6S 178.9W, H: 23 59 22.4 h 555 km. Mb 5.0. Fiji Islands region.
	HEE:ePKP	00	18	03.0	+						
28.	WIT:ePKP	20	28	54.0							17.8S 178.3W, H: 20 10 21.5 h 596 km. Mb 5.0 Fiji Islands region.
29.	DBN:iPKP	18	50	06	+	6	1.4				33.8S 177.8W, H: 18 30 09.1 h 48 km. Mb 6.1, Ms 5.9 South of Kermadec Islands.
	iPKP2	18	50	52	-	6		1.4			
	iPP	18	54	28							
	eSKSP	19	05	00							
	eSPP	19	08	08							
	eL	19	47			21		2.8		6.1	
	F	20.9									
	WIT:ePKP	18	50	04.0							
	ePKP2	18	50	47.0							
	HEE:iPKP	18	50	06.5	+						
	iPKP2	18	50	55.5	-						
	ePP	18	54	36.5							
30.	DBN:eL	06	21								37.2N 78.8E, H: 05 51 04.1 h 18 km. Mb 4.7 Southern Sinkiang Prov. China.
	F	06	27								

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		
JULY 1976	1. DBN: eL	04	08								16.6N 61.2W, H: 03 38 12.1 h 36 km. Mb 5.1 Leeward Islands.
	F	04	17								
	HEE: eP	03	48	37.5							
1.	DBN: iP	11	36	30	-	5	1.8				29.5S 25.2E, H: 11 24 05.3 h 33 km. Mb 5.9, Ms 5.6 Republic of South Africa.
	ePP	11	39	45							
	eL	12	03			20			6.4	6.0	
	F	13.4									
	WIT: eP	11	36	32.0	-						
	HEE: iP	11	36	23.0	-						
1.	DBN: eL	11	37								82.2N 7.4W, H: 11 19 05.7 h 33 km. Mb 5.0 North of Svalbard.
	F	in prec. shock									
1.	DBN: eL	13	30								19.8N 109.2W, H: 12 42 29.0 h 33 km. Mb 5.2, Ms 4.9 Revilla Gigedo Is. region.
	F	13	42								
2.	DBN: eL	13	10								19.8N 70.9W, H: 12 38 12.9 h 57 km. Mb 5.0 Dominican Republic region.
	F	13	51								
2.	HEE: eP	12	49	06.5							30.4S 177.1W, H: 17 24 07.1 h 33 km. Mb 4.7 Kermadec Islands.
	ePKP2	17	44	40.5							
2.	DBN: eL	18	54								No determination of epicenter
	F	19	33								
2.	WIT: ePKP	22	16	57.5	+						23.3S 179.9W, H: 21 58 09.2 h 565 km. South of Fiji Islands.
	HEE: ePKP	22	17	02.0							
	e	22	17	14.0							
3.	DBN: eP	16	44	56							24.2N 98.7E, H: 16 33 23.1 h 33 km. Mb 5.3, Ms 5.4 Burma-China border region.
	ePP	16	47	32							
	eS	16	54	28							
	eL	17	12			20			8.5	6.0	
	F	18	14								
	WIT: eP	16	44	50.0							
	HEE: eP	16	44	55.5							
3.	WIT: ePKP	17	08	54.0	+						22.2S 170.4E, H: 16 49 16.5 h 59 km. Mb 5.4. Loyalty Islands region.
	HEE: ePKP	17	08	59.5	+						
	i	17	09	00.5							

SEISMOLOGICAL BULLETIN



Date JULY 1976	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		
4.	DBN: eL	03	24.9							49.9N 79.0E, H: 02 56 57.7 h 0 km. Mb 5.8 Eastern Kozakh SSR.	
	F	03	35								
	WIT: iP	03	05	04.3	+						
	e	03	06	42.5							
	HEE: iP	03	05	14.4	+						
	e	03	06	50.0							
4.		03	06	57.0							
	WIT: ePKP	19	20	38.0						28.2S 178.3W, H: 19 01 08.2 h 196 km. Mb 5.3 Kermadec Islands region.	
	e	19	20	48.0							
	iPKP2	19	21	04.9	+						
	HEE: ePKP	19	20	41.0							
	e	19	20	52.5							
iPKP2	19	21	13.0	+							
4.	WIT: ePKP	21	57	21.0						21.9S 169.7E, H: 21 37 45.3 h 50 km. Mb 4.7 Loyalty Islands region.	
	HEE: ePKP	21	57	25.5							
4.	HEE: ePKP	22	59	37.5						15.4S 173.9W, H: 22 40 11.2 h 86 km. Mb 5.2 Tonga Islands.	
5.	DBN: eL	03	34							38.8N 140.7E, H: 02 47 16.2 h 16 km. Mb 5.1 Honshu, Japan.	
	F	03	52								
	HEE: eP	02	59	37.0							
5.	WIT: ePKP	03	02	26.0						16.4S 167.2E, H: 02 42 52.9 h 22 km. Mb 5.4 New Hebrides Islands.	
	HEE: ePKP	03	02	27.0							
5.	HEE: eP	18	40	22.5						51.3N 179.2W, H: 18 28 28.0 h 54 km. Mb 5.2 Andreanof Is., Aleutian Is.	
5.	DBN: eSKP	20	15	21						50.1S 114.8W, H: 19 52 11.4 h 33 km. Mb 5.3, Ms 5.7 Easter Island Cordillera.	
	eSS	20	33	45							
	eL	21	00			20		2.5	6.0		
6.	DBN: eL	12	26							14.5S 174.5W, H: 11 12.2 h 46 km. Mb 5.1, Ms 5.0 Samoa Islands region.	
	F	12	54								
7.	DBN: eL	14	16							37.5N 33.3W, H: 14 00 29.6 h 33 km. Mb 4.8 Azores Islands region.	
		14	37								
7.	DBN: eL	21	03							9.6S 154.3E, H: 19 53 50.8 h 17 km. Mb 5.6 Dentrecasteaux Islands region.	
	F	21	16								

SEISMOLOGICAL BULLETIN



Date JULY 1976	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		
8.	HEE: ePKP	02	19	23.0	+					19.4S 169.2E, H: 01 59 56.2 h 118 km New Hebrides Islands.	
8.	DBN: eL F	11 11	19 36							11.1N 85.9W, H: 10 36 58.0 h 58 km. Mb 4.8 Nicaragua.	
8.	DBN: iP epP ePP eS eL F WIT: eP epP HEE: eP epP	11 11 12 12 12 13 11 11 11 11	59 59 02 09 27 18 59 59 59 59	12 25 16 38 05.0 18.5 14.5 28.5	+	5	0.7			40.2N 142.3E, H: 11 47 01.8 h 55 km. Mb 5.4 Near east coast of Honshu, Japan.	
9.	HEE: ePn e i	01 01 01	45 45 46	45.0 53.5 27.3	-					ISC: 51.0N 6.6E, H: 01 45 34, h 0 km. Germany.	
9.	HEE: ePKP2	05	50	37.5						29.4S 179.3W, H: 05 30 44.9 h 340 km. Mb 5.3 Kermadec Islands region.	
9.	DBN: eL F	14 14	15 44							No determination of epicenter.	
9.	DBN: eL F WIT: eP HEE: eP	23 23 22 22	11 31 38 38	07.0 16.0						28.3N 129.2E, H: 22 25 37.5 h 61 km. Mb 5.3 Ryukyu Islands.	
10.	DBN: eL F WIT: e HEE: eP	04 04 04 04	15.7 18 13 13	30.0 05.5						46.2N 13.2E, H: 04 11 25.4 h 33 km. Mb 4.9 Northern Italy.	
10.	DBN: eP iZ ipP esP ePP eS eL F WIT: iP HEE: iP epP	11 11 11 11 11 11 12 12 11 11 11	48 48 49 50 51 57 17 50 48 48 49	12 16 48 20 11 20 10.3 20.5 54.0	+	5	2.3			47.4N 145.7E, H: 11 37 12.8 h 387 km. Mb 5.8 Sea of Okhotsk.	

SEISMOLOGICAL BULLETIN



Date JULY 1976	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		
10.	DBN: eL F	17	11								30.0N 68.1E, H: 16 40 35.7 h 33 km. Mb 5.3 Pakistan.
10.	WIT: ePKP HEE: iPKP	22	28	03.5	-						16.3S 179.7W, H: 22 09 25.3 h 485 km. Mb 4.8 Fiji Islands region.
11.	DBN: iP iZ iPP iS iSP eSS eL F WIT: eP HEE: iP	17	06	43	+	8	13.0				7.3N 78.5W, H: 16 54 31.8 h 22 km. Mb 6.3, Ms 6.7 Panama.
		17	06	45	+						
		17	09	46							
		17	16	48							
		17	17	39							
		17	22.1								
		17	28			18	26.5			6.6	
		in next shock				21				55	6.9
		17	06	48.0	-						
		17	06	46.0	-						
11.	WIT: eP HEE: iP	18	32	37.5	+						7.4N 78.2W, H: 18 20 23.7 h 33 km. Mb 5.7 Panama.
		18	32	35.0	+						
11.	DBN: iP iZ iS iSP eSS eL F WIT: iP i HEE: iP	20	54	01	+	8	6.9				7.4N 78.1W, H: 20 41 47.5 h 3 km. Mb 6.2, Ms 7.0 Panama.
		20	54	04	+						
		21	04	05							
		21	05	04							
		21	09.4								
		21	16			18	53			6.9	
		21	16			21				92	7.1
		20	54	05.8	+						
		20	54	20.0							
		20	54	03.5	+						
11.	WIT: eP HEE: iP e	21	10	38.5	+						7.0N 78.1W, H: 20 58 23.7 h 33 km. Mb 5.5 Panama.
		21	10	36.0	+						
		21	10	43.0							
11.	WIT: eP HEE: eP	22	15	34.5							7.4N 78.4W, H: 22 03 14.5 h 8 km. Mb 5.4 Panama.
		22	15	30.0							
11.	WIT: eP HEE: e(P)	22	23	01.0							7.1N 78.3W, H: 22 10 45.8 h 33 km. Mb 4.9 Panama.
		22	23	03.0							
12.	WIT: eP	02	48	33.0							7.1N 78.0W, H: 02 36 15.8 h 21 km. Mb 5.0 Panama.

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		
JULY 1976	12. DBN: eL	03	44								33.7N 85.6E, H: 03 12 48.0 h 33 km. Mb 4.8 Tibet.
	F	03	56								
12.	DBN: eP	14	55	21							7.2N 78.3W, H: 14 43 10.6 h 33 km. Mb 5.3, Ms 4.8 Panama.
	eL	15	23								
	F	16	08								
	WIT: eP	14	55	25.5							
	HEE: eP	14	55	23.0							
12.	WIT: eP	15	16	58.0							7.3N 78.2W, H: 15 04 44.8 h 33 km. 4.9 Panama.
	HEE: eP	15	16	57.0							
13.	WIT: eP	01	38	22.5	+						7.4N 78.1W, H: 01 26 09.1 h 33 km. Mb 5.2 Panama.
	HEE: eP	01	38	20.3	+						
13.	WIT: ePKP2	03	22	27.5							30.4S 177.7W, H: 03 01 54.6 h 33 km. Mb 5.1 Kermadec Islands.
	HEE: ePKP2	03	22	27.5							
	e	03	22	35.5							
13.	DBN: eL	08	07.8								35.8N 79.8E, H: 07 37 34.9 h 33 km. Mb 4.8 Kashmir-Tibet border region.
	F	08	18								
13.	DBN: iP	15	30	15	+						72.6N 3.5E, H: 15 25 35.6 h 33 km. Mb 5.2, Ms 5.3 Norwegian Sea.
	eS	15	34	02							
	eL	15	35.0			18			5.1	4.9	
	F	16	21								
	WIT: eP	15	30	06.5							
	HEE: eP	15	30	26.0	+						
	i	15	30	29.8	+						
13.	HEE: eP	15	40	12.0	+						72.7N 4.5E, H: 15 35 20.5 h 33 km. Mb 4.8 Norwegian Sea.
13.	DBN: eP	17	04	33							72.7N 3.7E, H: 16 59 52.6 h 33 km. Mb 5.0 Norwegian Sea.
	eS	17	08	20							
	eL	17	09.9			18			1.7	4.4	
	F	17	26								
	HEE: eP	17	04	42.5							
14.	DBN: eP	01	44	44	+						7.4N 78.0W, H: 01 32 34.8 h 33 km. Mb 5.5, Ms 5.6 Panama.
	eS	01	54	48							
	eL	02	06			22			4.6	5.8	
	F	04	19								
	WIT: eP	01	44	48.5							
	e	01	44	50.0							
	HEE: eP	01	44	45.5							
	i	01	44	47.2	+						

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		
JULY 1976	14. DBN: eL	05	43.7							46.2N 13.3E, H: 05 39 35.0 h 33 km. Mb 4.6 Northern Italy.	
	F	05	52								
	WIT: e	05	41	40.0							
	HEE: eP	05	41	15.0							
14.	DBN: eP	07	27	44	+					8.2S 114.9E, H: 07 13 24.0 h 40 km. Mb 6.2, Ms 6.5 Bali Island region. (563 reported killed).	
	ePKP	07	31	47							
	iPP	07	32	10							
	iPPP	07	34	34							
	eSKS	07	38	22							
	iS	07	39	52							
	iSP	07	41	28							
	eSS	07	47.4								
	eL	08	04			20	14.1		6.5		
	F	10	35								
	WIT: epp	07	32	07.0							
	ePKKP	07	43	18.0	+						
	HEE: ePKP	07	31	47.0							
	epp	07	32	16.0							
ePKKP	07	43	16.5	+							
14.	DBN: eL	11	20							8.1S 114.9E, H: 10 23 45.8 h 33 km. Mb 5.9, Ms 5.5 Bali Island region.	
	F	11	51								
	WIT: ePP	10	42	26.5							
	HEE: ePP	10	42	34.0							
14.	DBN: eL	19	43							7.2N 78.2W, H: 19 02 52.5 h 33 km. Mb 5.1 Panama.	
	F	20	01								
	HEE: eP	19	15	05.0							
14.	DBN: eL	21	48							35.6N 79.5E, 21 19 32.3 h 33 km. Mb 4.5 Kashmir-Tibet border region.	
	F	21	59								
15.	DBN: eL	00	35							35.8N 79.4E, H: 00 06 18.3 h 47 km. Mb 4.5 Kashmir Tibet border region.	
	F	in next shock									
15.	DBN: eL	00	39							19.2N 64.1W, H: 00 07 56.6 h 33 km. Mb 5.0 Virgin Islands.	
	F	in next shock									
	HEE: eP	00	18	20.5							
15.	DBN: eL	01	16							7.4N 78.1W, H: 00 35 32.4 h 33 km. Mb 5.3 Panama.	
	F	01.6									
	WIT: eP	00	47	46.0							
	e	00	48	02.2							
	HEE: eP	00	47	43.5							
15.	DBN: eL	05	41							7.3N 78.eW, H: 05 00 35.9 h 33 km. Mb 5.1 Panama.	
	F	06	07								
	WIT: eP	05	12	50.5							
	HEE: eP	05	12	48.0							

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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		
JULY 1976											
15.	DBN: eL F	12	17								39.4N 29.1E, H: 12 06 59.0 h 33 km. Mb 4.7 Turkey.
15.	DBN: eL F WIT: eP HEE: eP	20	37								37.6N 36.1E, H: 20 24 08.8 h 33 km. Mb 4.7 Turkey.
16.	WIT: ePKP2 HEE: ePKP2	02	30	56.5							30.2S 177.7W, H: 02 10 30.6 h 14 km. Mb 5.0 Kermadec Islands.
16.	DBN: eL F	15	34								35.7N 79.5E, H: 15 03 53.4 h 33 km. Mb 4.8 Kashmir-Tibet border region.
16.	DBN: eL F	16	55								31.5S 71.3W, H: 15 59 32.3, h 60 km. Mb 5.4 Near coast of central Chile.
17.	DBN: eP eS eSS eL F WIT: eP HEE: eP	02	17	52		21			2.5	5.6	5.8N 82.7W, H: 02 05 22.0 h 25 km. Mb 5.3 Mb 5.5 South of Panama.
17.	DBN: eP eS eSS eL F WIT: eP e HEE: eP e	04	24	26		22			2.9	5.4	6.9S 12.5W, H: 04 14 11.7 h 33 km. Mb 5.1, Ms 5.3 Ascension Island region.
17.	DBN: eL F WIT: eP HEE: eP	06	02								7.1N 78.0W, H: 05 23 38.8 h 22 km. Mb 5.1, Ms 4.6 Panama.
17.	DBN: ePP eL F WIT: ePKP HEE: ePKP	05	52	55		20			1.9	5.7	4.6S 140.0E, H: 05 32 43.2 h 33 km. Mb 5.6, Ms 5.5 West Iran.

SEISMOLOGICAL BULLETIN



Date JULY 1976	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		
17.	DBN: eL F WIT: e HEE: iPn	09	17.0		-						46.8N 9.6E, H: 09 13 37.3 h 64 km. Mb 4.8 Switzerland.
17.	DBN: eL F WIT: eP	09	50								19.4N 104.7W, H: 09 02 14.2 h 67 km. Mb 5.2 Near coast of Jalisco, Mexico.
17.	DBN: ePKP ePP ePKS iPS eL F WIT: iPKP i ePKKP eSPP HEE: iPKP ePKKP	21	25	28	+	20	9.4	12.5	6.5 6.6		4.2S 152.8E, H: 21 06 32.1 h 53 km. Mb 6.0, Ms 6.6 New Britain region.
18.	WIT: ePKP HEE: iPKP	07	02	40.5	-						18.5S 177.7W, H: 06 44 04.4 h 567 km. Mb 4.8 Fiji Islands region.
18.	DBN: eL F	13	40.6								38.6N 20.4E, H: 13 30 47.4 h 31 km. Mb 4.5 Greece.
18.	DBN: eL F	23	56								21.6N 121.9E, H: 23 07 37.7 h 46 km. Mb 4.8 Taiwan region.
19.	WIT: ePKP HEE: iPKP	21	07	40.5	+						21.5S 179.3W, H: 20 49 00.1 h 603 km. Mb 5.0 Fiji Islands region.
20.	DBN: eL F WIT: eP HEE: eP	01	35		+						48.2N 155.0E, H: 00 48 32.2 h 34 km. Mb 5.1 Kuril Islands.
20.	DBN: eL F	02	10			20			2.1	5.8	21.7S 113.2W, H: 01 12 07.2 h 33 km. Mb 5.3, Ms 5.8 Easter Island Cordillera.

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		
JULY 1976	20. DBN: eL	18	09								44.3N 28.2W, H: 17 59 29.0 h 33 km. Mb 4.6 North Atlantic Ridge.
	F	18	47								
	WIT: eP	18	04	47.5							
	HEE: eP	18	04	39.5							
20.	WIT: ePKP2	23	11	32.0							31.2S 180.0W, H: 22 51 43.1 h 370 km. Mb 5.2 Kermadec Islands region.
	HEE: ePKP2	23	11	40.3	+						
21.	HEE: eP	04	10	55.5	+						7.4N 78.3W, H: 03 58 44.6 h 33 km. Mb 5.1, Ms 4.1 Panama.
21.	DBN: iP	15	22	21	+	6	0.7				24.8N 98.7E, H: 15 10 45.6 h 9 km. Mb 5.8, Ms 6.3 Burma-China border region.
	ePP	15	25	04							
	eS	15	31	47							
	eSS	15	36.5								
	eSSS	15	39.8								
	eL	15	45			20		57	6.8		
	F	18.2									
	WIT: eP	15	22	13.0							
	HEE: eP	15	22	17.0	+						
22.	DBN: eL	05	05								No determination of epicenter.
	F	05	16								
22.	DBN: eL	17	15								7.3N 78.3W, H: 16 35 17.8 h 13 km. Mb 5.1, Ms 4.6 Panama.
	F	17	38								
	HEE: eP	16	47	32.5							
23.	DBN: eL	02	23			22		2.1	5.4		24.9N 98.7E, H: 01 43 58.9 h 33 km. Mb 5.0, Ms 4.9 Burma-China border region.
	F	03	07								
23.	WIT: eP	02	41	01.5							49.8N 78.1E, H: 02 32 57.9 h 0 km. Mb 5.1. Eastern Kazakh SSR.
	HEF: eP	02	41	11.5							
23.	WIT: iP	06	44	12.0	-						30.1S 178.1W, H: 06 23 51.7 h 61 km. Mb 5.4 Kermadec Islands.
	HEE: ePKP2	06	44	19.0							
23.	DBN: eL	09	14								28.7S 112.7W, H: 08 12 30.3 h 18 km. Mb 5.3, Ms 5.3 Easter Island region.
	F	09	54								
23.	DBN: eL	15	52								No determination of epicenter.
	F	15	59								
23.	DBN: ePP	17	06	20							3.5S 148.6E, H: 16 45 43.6 h 37 km. Mb 5.3, Ms 5.9. Bismarck Sea.
	eSP	17	16	16							
	eSS	17	23	00							
	eL	17	48			20		3.5	3.2	6.0	
	F	19.2									

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Date JULY 1976	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		
23.	DBN: eL F	21	01								38.0N 21.5E, H: 20 51 02.9 h 33 km. Mb 4.4 Greece.
23.	DBN: eL F HEE: eP	23	01								45.3N 150.1E, H: 22 17 56.5 h 33 km. Mb 5.1, Ms 4.7 Kuril Islands.
24.	DBN: ePS eL F	06	42	09							59.0S 25.5W, H: 06 12 51.2 h 31 km. Mb 5.6, Ms 5.5 South Sandwich Islands region.
24.	DBN: eP eL F WIT: eP HEE: eP	10	55	57							4.8N 82.6W, H: 10 43 22.0 h 33 km. Mb 5.4, Ms 5.3 South of Panama.
25.	DBN: eL F	14	59								5.1N 118.3E, H: 14 03 17.8 h 33 km. Mb 5.3, Ms 5.0 Borneo.
26.	DBN: eL F	02	40								21.9S 113.3W, H: 01 41 25.4 h 33 km. Mb 5.2, Ms 6.2 Easter Island Cordillera.
26.	DBN: ePP eSKS iS eL F HEE: ePP	03	14	25							5.0N 118.3E, H: 02 56 39.3 h 33 km. Mb 5.8, Ms 6.2 Borneo.
26.	DBN: eL F	06	29								4.5S 139.9E, H: 05 30 03.2 h 33 km. Mb 5.2, Ms 5.2 West Irian.
26.	DBN: eL F	09	37								4.9N 118.3E, H: 08 49 34.6 h 33 km. Mb 5.3, Ms 4.8 Borneo.
26.	DBN: eL F	12	03								43.1N 45.2E, H: 11 46 38.7 h 33 km. Mb 4.5 Eastern Caucasus.
26.	DBN: eL F	18	50								12.4N 141.9E, H: 17 54 06.7 h 76 km. Mb 4.9 South of Mariana 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		
JULY 1976											
27.	DBN: eL F	00	40								4.7S 134.1E, H: 23 38 47.6 h 33 km. Mb 4.6, Ms 4.8 West Iran.
27.	DBN: iP eS eL F WIT: eP HEE: eP	01 01 01 02.0 01 01	01 05 06.4 01 01	20 00 14.0 33.0	+	15	2.4		4.5		72.2N 1.0E, H: 00 56 46.9 h 33 km. Mb 5.1, Ms 4.9 Norwegian Sea.
27.	DBN: iP eS eL F WIT: eP HEE: eP	04 04 04 05 04 04	04 08 09.3 11 04 05	53 18 56.0 08.5	-	5 20	1.5		4.5	4.7	64.6N 17.2W, H: 04 00 56.6 h 33 km. Mb 5.2, Ms 4.9 Iceland.
27.	DBN: eL F	09 10	59 40								8.2N 94.1E, H: 09 09 52.0 h 33 km. Mb 5.3, Ms 4.9 Nicobar Islands region.
27.	HEE: ePKP epPKP e	17 17 17	11 12 13	47.5 55.0 07.5	+						19.2S 169.6E, H: 16 52 39.2 h 280 km. Mb 5.2 New Hebrides Islands.
27.	DBN: iP iPP iPPP iS eSS eL F WIT: eP i e eL HEE: eP i i eL	19 19 19 20 20 20 01.5 19 19 19 20 19 19 19 20	54 57 58 03 08.4 12 01.5 54 54 54 18 54 54 54 20	17 07 53 44 18 09.5 13.2 15.5 18.0 21.8 24.2	+	18			1000	8.2	39.6N 118.0E, H: 19 42 54.6 h 23 km. Mb 6.3, Ms 7.9 Northeastern China. (655.000 reported killed).
27.	WIT: eP HEE: eP	20 20	42 42	00.0 05.0	+						37.1N 116.0W, H: 20 30 00.1 h 0 km. Mb 5.3 Southern Nevada.

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Date JULY 1976	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		
27.	DBN: eL F WIT: eP HEE: eP	23	54			18		50		6.8	39.4N 117.8E, H: 23 17 31.4 h 31 km. Mb 5.4 Northeastern China.
28.	DBN: eL F HEE: eP	01	38			18		2.5		5.5	39.4N 117.8E, H: 00 58 46.9 h 33 km. Mb 5.0 Northeastern China.
28.	DBN: eL F	01	54								39.9N 118.4E, H: 01 13 46.6 h 33 km. Mb 4.5 Northeastern China.
28.	DBN: eL F	02	01								39.7N 118.3E, H: 01 21 36.0 h 19 km. Mb 4.9 Northeastern China.
28.	DBN: eL F WIT: eP HEE: eP	02	24			18		4.2		5.7	39.1N 118.0E, H: 01 45 38.5 h 33 km. Mb 5.1 Northeastern China.
28.	DBN: eL F	02	56								No determination of epicenter. Probably Northeastern China.
28.	DBN: eL F	03	25								No determination of epicenter. Probably Northeastern China.
28.	DBN: eL F	04	14								No determination of epicenter. Probably Northeastern China.
28.	DBN: eL F	07	40								39.8N 118.4E, H: 06 59 49.3 h 33 km. Mb 4.7 Northeastern China.
28.	DBN: eL F	07	55								39.5N 117.7E, H: 07 14 55.7 h 33 km. Mb 4.5 Northeastern China.
28.	DBN: eL F	10	22								39.8N 117.8E, H: 09 42 23.9 h 33 km. Mb 4.9 Northeastern China.
28.	DBN: eL F	10	28								39.4N 118.1E, H: 09 48 22.4 h 33 km. Mb 5.1, Ms 4.8. Northeastern China.

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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		
JULY 1976	28. DBN: iP	10	56	58	-						39.7N 118.4E, H: 10 45 35.2 h 26 km. Mb 6.3, Ms 7.4 Northeastern China.
	iZ	10	57	05	+	9	13.0				
	iPP	10	59	44							
	iPPP	11	01	27							
	iS	11	06	20							
	eSS	11	11	10							
	eL	11	17			20			700	7.9	
	F	15.3									
	WIT: iP	10	56	50.5	+						
	i	10	56	54.9							
	eL	11	22								
HEE: iP	10	57	00.4	-							
eL	10	20									
28. DBN: eL	16	15			18			5.1	5.8	39.9N 118.7E, H: 15 35 55.3 h 13 km. Mb 5.3 Northeastern China.	
F	16	43									
HEE: eP	15	47	22.0								
28. DBN: iPKP	17	34	43	-						20.2S 170.0E, H: 17 15 01.7 h 5 km. Mb 5.6, Ms 6.0 New Hebrides Islands.	
iZ	17	35	45								
eL	18	28			20			2.7	6.0		
F	20	04									
WIT: ePKP	17	34	41.0								
HEE: iPKP	17	34	47.2	-							
28. DBN: iPKP	17	40	45							20.3S 170.0E, H: 17 21 05.2 h 39 km. Mb 5.7 New Hebrides Islands.	
WIT: iPKP	17	40	44.5	+							
HEE: ePKP	17	40	44.5	+							
28. HEE: ePKP	19	16	07.0							20.2S 169.8E, H: 18 56 29.7 h 58 km. Mb 4.9 New Hebrides Islands.	
28. DBN: iP	20	23	44	-						43.2N 45.6E, H: 20 17 42.3 h 21 km. Mb 5.4, Ms 6.1 Eastern Caucasus.	
ipP	20	23	49	+							
iS	20	28	28								
eL	20	31			18	29.5			5.9		
F											
WIT: eP	20	23	35.5								
HEE: eP	20	23	40.0	+							
29. DBN: eL	01	40								39.9N 118.9E, H: 01 01 03.2 h 35 km. Mb 5.1, Ms 4.1 Northeastern China.	
F	01	53									
HEE: eP	01	12	26.5								
29. DBN: eL	05	16.8								47.8N 48.1E, H: 04 59 57.7 h 0 km. Mb 5.9, Ms 4.4 Western Kazakh SSR.	
F	05	23									
WIT: iP	05	05	40.0	+							
HEE: eP	05	05	46.5	+							

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Date JULY 1976	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		
29.	HEE: ePKP	05	56	01.5	+						ISC: 18.1S 176.6W, H: 05 36 17.3, h 33 km, Mb 5.2. Fiji region.
29.	DBN: eL F	07 36 08 25									7.0N 78.1W, H: 06 54 33.5 h 28 km. Mb 5.2, Ms 5.1 Panama.
29.	DBN: eL F	11 50 11 53									39.9N 118.6E, H: 11 09 58.0 h 33 km. Mb 4.8 Northeastern China.
29.	DBN: eL F	13 10 13 12									39.2N 117.4E, H: 12 29 28.2 h 14 km. Mb 4.5 Northeastern China.
29.	DBN: eL F	13 27 13 30									No determination of epicenter. Probably northeastern China.
29.	DBN: eL F	17 34 17 36									No determination of epicenter. Probably Northeastern China.
29.	DBN: eL F	19 07 19 10									No determination of epicenter. Probably Northeastern China.
29.	DBN: eL F	19 14 19 18									No determination of epicenter. Probably Northeastern China.
29.	DBN: eL F	22 28 22 48									9.4S 67.1E, H: 21 44 49.6 h 33 km. Mb 5.1, Ms 5.0 Mid-Indian Rise.
30.	DBN: eL F	00 33 00 36									39.9N 118.9E, H: 23 53 05.0 h 33 km. Mb 4.6 Northeastern China.
30.	HEE: ePKP	04 42	26.0								ISC: 20.1S 171.1E, H: 04 22 39, h 40 km. New Hebrides region.
30.	DBN: eL F	06 53 06 55									No determination of epicenter. Probably Northeastern China.
30.	DBN: eL F	10 04 10 06									No determination of epicenter. Probably Northeastern China.

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		
JULY 1976	30. DBN: eL	20	46								39.7N 118.7E, H: 20 06 45.0 h 8 km. Mb 5.1 Northeastern China.
	F	20	54								
	HFE: eP	20	18	12.5							
	e	20	18	35.5							
30.	HFE: ePKP	21	13	39.5							4.5S 152.9E, H: 20 54 43.4 h 76 km. Mb 5.3 New Britain region.
e	21	13	57.5								
30.	DBN: eL	22	02			18		1.4		5.2	39.8N 118.3E, H: 21 23 15.0 h 33 km. Mb 5.4, Ms 4.4 Northeastern China.
F	22	18									
WIT: eP	21	34	28.0	-							
HEE: iP	21	34	37.4	-							
31.	DBN: iP	01	06	55	+	9	2.7				30.3S 178.0W, H: 00 46 58.0 h 20 km. Mb 5.8, Ms 6.2 Kermadec Islands.
iPKP2	01	07	24								
ePP	01	11	00								
eSPP	01	24	23								
eSS	01	31	12								
eSSS	01	37.2									
eL	02	02			20	5.3	4.4	3.6	6.3		
F	03.9										
WIT: ePKP	01	06	53.0	+							
e	01	07	08.5								
ePKP2	01	07	25.0								
HEE: ePKP	01	06	56.0	+							
e	01	07	11.5								
iPKP2	01	07	33.0								
31.	HEE: ePKP2	01	52	57.5							30.3S 177.8W, H: 01 32 24.0 h 24 km. Mb 4.6 Kermadec Islands.
e	01	53	08.5								
31.	DBN: eL	05	47								50.1S 7.1W, H: 04 54 24.4 h 33 km. Mb 5.1, Ms 5.3 South Atlantic Ridge.
F	06.6										
31.	DBN: eL	08	04								39.5N 118.5E, H: 07 23 39.4 h 38 km. Mb 4.8 Northeastern China.
F	08	07									
31.	DBN: eL	23	17								26.2N 110.3W, H: 22 32 10.5 h 33 km. Mb 4.8, Ms 4.5 Gulf of California.
F	23	36									

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		
AUGUST 1976											
1.	DBN: eL F	02	35								34.7N 79.3E, H: 02 05 26.8 h 15 km. Mb 4.6 Kashmir-Tibet border region
1.	HEE: eP	04	51	08.0							53.9N 160.5E, H: 04 39 44.1 h 93 km. Mb 4.9 Near east coast of Kamchatka.
1.	DBN: iPKP WIT: ePKP HEE: iPKP	18	26	36	+						18.4S 174.1W, H: 18 06 57.3 h 33 km. Mb 5.3, Ms 5.0 Tonga Islands.
2.	HEE: eP	05	20	11.5							35.5N 26.0E, H: 05 15 35.0 h 125 km. Mb 4.7 Crete.
2.	DBN: iPKP iPP ePPP eSS eSSS eL F WIT: iPKP iPP HEE: iPKP i ePP	11	15	01	+	9	12.8				20.6S 169.3E, H: 10 55 25.7 h 52 km. Mb 6.1, Ms 6.9 New Hebrides Islands
						22	27.5			7.0	
2.	DBN: eL F	23	21								4.5S 138.8E, H: 22 15 04.8 h 27 km. Mb 5.1 West Iran
3.	DBN: eL F	06	36.5								No determination of epicentre Probably northeastern China.
3.	DBN: eL F	07	35.3								No determination of epicentre. Probably northeastern China.
3.	DBN: eP ePP eL F HEE: eP	07	59	12		18	4.2			5.4	40.8N 77.9E, H: 07 50 19.8 h 33 km. Mb 5.2, Ms 5.2 Kirgiz-Sinkiang border region
3.	DBN: eL F	10	33								No determination of epicentre
4.	DBN: eL F	02	04.5								38.7N 118.8E, H: 01 24 05.3 h 33 km. Mb 4.3 Northeastern China.

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		
AUGUST 1976	DBN: eL	05	45.0							No determination of epicentre Probably northeastern China	
	F	05	47								
4.	DBN: eL	14	49							35.6S 14.0W, H: 14 00 01.8 h 33 km. Mb 5.8, Ms 5.4 Tristan da Cunha region	
	F	14	54								
	HEE: eP	14	12	50.5	+						
	ePP	14	16	15.0							
4.	HEE: ePKP	18	26	26.0	+					20.8S 168.8E, H: 18 06 39.8 h 26 km. Loyalty Islands.	
4.	DBN: eS	23	44	00						30.2N 138.5E, H: 23 21 44.2, h 435 km. Mb 5.4 South of Honshu, Japan.	
	eL	00	12								
	F	00	29								
	WIT: eP	23	33	44.0							
	HEE: eP	23	33	52.5	-						
5.	DBN: eL	00	54.4							No determination of epicentre. Probably northeastern China.	
	F	00	57								
5.	DBN: eL	04	15							46.9N 153.7E, H: 03 30 59.1 h 9 km. Mb 5.2, Ms 4.7 Kuril Islands.	
	F	04	36								
5.	HEE: epP	07	00	44.5						32.5N 141.3E, H: 06 47 44.8 h 35 km. Mb 4.9 South of Honshu, Japan.	
5.	DBN: eL	09	55							46.6N 153.8E, H: 09 13 50.3 h 33 km. Mb 4.9, Ms 4.7 Kuril Islands.	
	F	10	32								
5.	WIT: iP	13	49	33.0	-					7.0N 94.3E, H: 13 37 16.7 h 106 km. Mb 5.6 Nicobar Islands region.	
	HEE: iP	13	49	35.5	-						
5.	DBN: eL	16	11.5							No determination of epicentre. Probably northeastern China.	
	F	16	17								
5.	DBN: eL	19	29							12.7N 88.2W, H: 18 48 11.4 h 70 km. Mb 5.2 Off coast of central America.	
	F	19	50								
	HEE: epP	19	00	46.0							
5.	DBN: eL	19	53.0							No determination of epicentre. Probably northeastern China.	
	F	19	57								
5.	HEE: ePKP	23	22	23.0	-					ISC: 19.9S 168.4E, H: 23 02 43.3, h 33 km. New Hebrides.	
	iPKP	23	22	30.5	+						
	eSPKP2	23	22	35.5							

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Date AUGUST 1976	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		
6.	HEE: ePKP2	03	43	06.0							29.4S 176.7W, H: 03 22 33.6 h 25 km. Mb 4.8 Kermadec Islands region.
6.	DBN: eL F	04 52 05 29									No determination of epicentre.
6.	DBN: eP eL F WIT: eP HEE: eP	07 39 16 08 10 08 52 07 39 10.0 07 39 20.0									46.8N 153.8E, H: 07 27 15.2 h 19 km. Mb 5.2 Kuril Islands.
6.	DBN: eL F	12 29.6 12 33									No determination of epicentre. Probably northeastern China.
6.	DBN: eL F	13 58.0 14 00									No determination of epicentre. Probably northeastern China.
6.	DBN: eL F WIT: eP e HEE: iP e	20 26 20 50 19 54 53.0 19 55 05.0 19 55 03.3 19 55 15.5									37.3N 141.5E, H: 19 42 37.2 h 54 km. Mb 5.3 Near east coast of Honshu, Japan.
6.	DBN: eL F	22 32 22 43									27.0N 130.5E, H: 21 42 58.7 h 33 km. Mb 5.0 Ryukyu Islands.
7.	DBN: eL F	08 00 08 41									No determination of epicentre.
7.	DBN: ePKP eL F WIT: iP e HEE: iP i	09 56 48 10 54 11 17 09 56 46.2 09 56 53.0 09 56 51.2 09 57 11.4									20.7S 169.2E, H: 09 37 11.8 h 44 km. Mb 5.1, Ms 4.7 New Hebrides Islands.
8.	DBN: eL F	03 27 03 47									33.8N 38.3W, H: 03 10 50.1 h 33 km. Mb 4.8, Ms 4.5 North Atlantic Ridge.
8.	DBN: eL F	11 48 12 00									39.7N 118.5E, H: 11 09 12.4 h 33 km. Mb 4.9 Northeastern China.
8.	DBN: eL F	23 19.8 23 58			20		4.2		5.7		40.2N 118.9E, H: 22 41 34.3 h 33 km. Mb 5.1 Northeastern China.

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		
AUGUST 1976											
9.	DBN: eL F	00	16.9								No determination of epicentre. Probably northeastern China.
9.	DBN: eL F	02	09.8								No determination of epicentre. Probably northeastern China.
9.	DBN: eL F	02	50.4								40.0N 118.0E, H: 02 10 08.5 h 34 km. Mb 4.6 Northeastern China.
9.	WIT: iPKP e HEE: ePKP i i	05	52	21.0	+						20.8S 175.0W, H: 05 32 37.1 h 33 km Mb 5.6 Tonga Islands.
9.	DBN: eL F	06	28.5								No determination of epicentre. Probably northeastern China.
10.	DBN: iP iS ePPS eL F WIT: eP HEE: iP	00	23	00	+						2.1N 79.0W, H: 00 10 26.9 h 33 km. Mb 5.5, Ms 5.6 South of Panama.
						20			3.5	5.7	
10.	DBN: eL F	06	09.3								No determination of epicentre. Probably northeastern China.
11.	WIT: ePKP e HEE: ePKP e	22	46	10.5	+						20.6S 169.2E, H: 22 26 39.0 h 60 km. Mb 5.1 New Hebrides Islands.
12.	DBN: eL F	01	07								10.4S 13.1W, H: 00 34 19.0 h 33 km. Mb 4.8 Ascension Island region.
12.	DBN: eL F HEE: eP	04	35								4.1N 87.5W, H: 03 53 50.9 h 33 km. Mb 5.0, Ms 4.4 Off coast of Central America.
12.	HEE: ePKP e	09	59	08.5							20.2S 170.0E, H: 09 39 27.3 h 30 km. Mb 4.9 New Hebrides Islands.
12.	DBN: eL F HEE: ePKP	11	10								11.0S 162.5E, H: 09 59 45.3 h 43 km. Mb 5.5, Ms 5.2 Solomon Islands.

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Date AUGUST 1976	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				
12.	DBN: eP	21	07	16	-	5	0.9			3.6N 124.3E, H: 20 53 49.1 h 357 km. Mb 5.8 Celebes Sea.			
	epP	21	08	36									
	esP	21	09	12									
	eZ	21	10	44									
	ePP	21	11	40									
	epPP	21	13	00									
	iSKS	21	17	22									
	isSKS	21	19	52									
	eL	21.8											
	F	23.5											
	WIT: eP	21	07	12.5							+		
HEE: eP	21	07	19.5	+									
epP	21	08	44										
e	21	11.5											
12.	DBN: iP	23	38	01	+	5	1.7			26.7N 97.1E, H: 23 26 46.2 h 27 km. Mb 6.4, Ms 6.1 Burma.			
	ePP	23	40	30									
	ePPP	23	42	17									
	eS	23	47	13									
	eL	00	03								20	17.8	6.3
	F	02.0											
	WIT: iP	23	37	54.6							+		
	HEE: iP	23	38	00.5							+		
ePP	23	40	23.0										
13.	HEE: e	00	05	57.5	-					No determination of epicentre.			
14.	DBN: eL	03	12.8							No determination of epicentre. Probably northeastern China.			
	F	03	16										
14.	DBN: eL	06	21.9							No determination of epicentre. Probably northeastern China.			
	F	06	24										
14.	HEE: ePn	07	33	03.0						BCIS 47.4N 11.4E, H: 07 31 43.4 h 10 km. Austria			
14.	DBN: eL	20	27							56.6N 155.2E, H: 19 49 40.6 h 33 km. Mb 5.1, Ms 4.9 Kamchatka.			
	F	21	02										
15.	WIT: e PKP	04	18	36.5	-					ISC: 18.4S 172.9W, H: 03 58 53.6, h 0 km. Tonga region.			
	HEE: i PKP	04	18	43.0									
15.	WIT: iPKP	19	02	42.3	-					25.1S 179.E, H: 18 43 45.0 h 509 km. Mb 5.4 South of Fiji Islands.			
	e	19	02	53.0									
	HEE: ePKP	19	02	39.5									
	e	19	02	49.5									
	i	19	03	03.8							+		

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		
AUGUST 1976											
15.	DBN: eL F	23 00	30 07								3.6N 126.9E, H: 22 34 53.7 h 39 km. Mb 5.3, Ms 5.2 Talaud Islands.
16.	DBN: eL F HEE: eP	02 02 01	01 14 39	18.0	+						0.8S 16.0W, H: 01 29 49.9 h 42 km. Mb 4.9, Ms 4.3 North of Ascension Island
16.	DBN: eP eS eL F WIT: eP HEE: iP e	02 02 02 03 02 02 02	37 45 57 34 37 37 37	18 06 06 22.5 09.2 17.0	+						0.8S 16.0W, H: 02 27 38.6 h 25 km. Mb 5.2, Ms 4.8 North of Ascension Island.
16.	DBN: eL F	10 10	38.8 41								No determination of epicentre. Probably northeastern China.
16.	DBN: eP eL F WIT: eP e HEE: eP	12 13 13 12 12 12	40 08 23 39 40 40	04 59.0 26.0 10.5	+						51.9N 158.4E, H: 12 28 32.4 h 50 km. Mb 5.3, Ms 4.8 Near east coast of Kamchatka.
16.	DBN: iP iZ iPP iPPP iS eSS eSSS eL F WIT: iP i HEE: iP	14 14 14 14 14 14 14 14 14 14 14 14 14	17 18 20 22 27 31 34.6 37 in next shock 17 17 18	59 02 37 20 10 48 34.6 37 51.4 57.6 00.3	+	19	173	7.3			32.8N 104.2E, H: 14 06 45.9 h 16 km. Mb 6.1, Ms 6.9 Szechwan Prov., China.
16.	DBN: iP iPP iS eL F WIT: e(P) e i HEE: iP e i i	16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16	25 29 36 59 22.4 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25	05 12 32 32 05.5 25.0 41.2 04.3 09.5 32.3 48.2	+	22	380	7.9			6.3N 124.0E, H: 16 11 07.3 h 33 km. Mb 6.4, Ms 7.9 Mindanao, Philippine Islands. (5000-8000 reported killed).

SEISMOLOGICAL BULLETIN



Date AUGUST 1976	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		
16.	DBN: eP	23	03	30		22	2.1	5.6	7.4N 123.4E, H: 22 49 38.2 h 33 km. Mb 5.8, Ms 5.4 Mindanao, Philippine Islands.		
	ePP	23	07	36							
	eL	23	42								
	F	00	43								
	WIT: eP	23	03	21.0							
	HEE: eP	23	03	26.5							
17.	DBN: eP	01	24	53		21	4.0	5.9	10.1N 125.9E, H: 01 11 10.2 h 34 km. Mb 6.0, Ms 5.7 Leyte, Philippine Islands.		
	eSKS	01	35	28							
	eL	02	04								
	F	03	23								
	WIT: eP	01	24	48.5	-						
	HEE: iP	01	24	54.3	-						
17.	DBN: eL	04	22						6.4N 123.9E, H: 03 25 49.5 h 53 km. Mb 4.9 Mindanao, Philippine Islands.		
	F	in next shock									
17.	DBN: iP	04	33	20	+	20	53	7.0	7.2N 122.9E, H: 04 19 27.3 h 22 km. Mb 6.2, Ms 6.8 Mindanao, Philippine Islands.		
	iPP	04	37	36							
	iSKS	04	44	00							
	iS	04	45	00							
	ePS	04	46	32							
	eSS	04	52.0								
	eL	05	04								
	F	08	45								
	WIT: eP	04	33	14.0							
	e	04	33	18.5	-						
	HEE: eP	04	33	20.5							
e	04	33	24.0								
17.	DBN: eL	08	46						7.3N 123.3E, H: 07 53 30.5 h 14 km. Mb 5.6 Mindanao, Philippine Islands.		
	F	09.5									
	WIT: eP	08	07	21.0							
	HEE: eP	08	07	26.5							
17.	DBN: eL	09	52						7.5N 123.3E, H: 08 57 55.7 h 49 km. Mb 5.4 Mindanao, Philippine Islands.		
	F	10.5									
17.	DBN: eL	11	09						41.3N 15.3E, H: 11 00 19.5 h 33 km. Southern Italy.		
	F	11	13								
17.	DBN: eL	14	21						6.4N 124.0E, H: 13 26 02.8 h 67 km. Mb 5.0 Mindanao, Philippine Islands.		
	F	14	49								
17.	DBN: eL	18	03						34.8N 139.0E, H: 17 19 02.1 h 27 km. Mb 5.1 Near south coast of Honshu, Japan.		
	F	18	42								
	WIT: eP	17	31	29.0							
	HEE: eP	17	31	39.5							

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			
AUGUST 1976												
17.	WIT: eP HEE: iP	17	42	31.5	+						36.9N 27.0E, H: 17 37 56.6 h 167 km. Mb 5.1 Dodecanese Islands.	
		17	42	25.9								
17.	DBN: eL F	19	07								3.0S 129.5E, H: 18 07 39.2 h 33 km. Mb 5.4, Ms 4.9 Ceram	
		20	01									
17.	HEE: iPKP2	22	51	26.9	+						30.4S 177.7W, H: 22 30 53.2 h 32 km. Mb 5.6 Kermadec Islands.	
17.	DBN: eL F	23	46								5.9N 124.4E, H: 22 51 23.9 h 47 km. Mb 5.2 Mindanao, Philippine Islands.	
		00	44									
18.	DBN: eP ePP eSKS eL F	02	06	00		19					6.4N 123.9E, H: 01 52 06.1 h 31 km. Mb 5.5, Ms 5.6 Mindanao, Philippine Islands.	
		02	10	12								
		02	16	40								
		02	42							3.3	5.8	
		04	39									
18.	DBN: eL F	06	53								6.8N 123.8E, H: 05 58 34.0 h 57 km. Mb 5.0 Mindanao, Philippine Islands.	
		07	10									
18.	DBN: eL F	10	42								6.4N 123.8E, H: 09 47 56.4 h 33 km. Mb 4.9 Mindanao, Philippine Islands.	
		11	10									
18.	DBN: eL F	11	43								6.6N 123.7E, H: 10 48 35.2 h 30 km. Mb 5.1, Ms 4.8 Mindanao, Philippine Islands.	
		12	06									
18.	DBN: eL F	16	07								7.2N 123.5E, H: 15 06 59.9 h 48 km. Mb 5.1, Ms 4.3 Mindanao, Philippine Islands.	
		17	00									
18.	DBN: eP ePP eS eL F HEE: eP	20	41	30		20					6.9N 123.7E, H: 20 27 31.6 h 33 km. Mb 5.7, Ms 5.6 Mindanao, Philippine Islands.	
		20	45	29								
		20	52	56								
		21	17							4.3	6.0	
		23	07									
		20	41	25.0								
19.	HEE: ePKP ₂ e	01	16	59.5							30.2S 177.6W, H: 00 56 23.6 h 20 km. Mb 5.0 Kermadec Islands.	
		01	17	09.5								

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Date AUGUST 1976	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		
19.	DBN: eP eS eL F WIT: eP HEE: eP	01 01 01 02 01 01	17 21 23.0 33 17 17	34 40 0 0 34.5 22.5		20		6.6		5.1	37.7N 28.9E, H: 01 12 36.7 h 3 km. Mb 5.0, Ms 4.9 Turkey.
19.	WIT: ePKP ₂ HEE: ePKP ₂	01 01	35 35	35.0 30.5							30.5S 177.5W, H: 01 14 58.4 h 33 km. Mb 5.3 Kermadec Islands.
19.	HEE: ePKP ₂ ePcPP	01 02	54 02	29.5 08.5							30.4S 177.8W, H: 01 33 55.3 h 33 km. Mb 4.9 Kermadec Islands.
19.	DBN: eL F	05 06	41 17								30.3S 177.4W, H: 04 14 56.8 h 3 km. Mb 5.2, Ms 5.8 Kermadec Islands.
19.	DBN: eL F HEE: iP	13 14 13	26 15 00	59.0	-	18			4.1	5.7	32.9N 104.2E, H: 12 49 47.7 h 33 km. Mb 5.4, Ms 5.1 Szechwan Prov., China.
19.	DBN: eL F HEE: eP	19 20 19	49 42 17	30.0		21		2.8		5.7	14.5N 123.8E, H: 19 04 04.6 h 15 km. Mb 5.5, Ms 5.0 Luzon, Philippine Islands.
19.	DBN: eL F	22 22	46 50								39.2N 22.3E, H: 22 36 26.6 h 58 km. Mb 4.3 Greece.
20.	DBN: ePKP eL F WIT: ePKP HEE: ePKP e	00 01 02 00 00 00	16 15 24 16 16 16	03 0 0 05.0 04.5 11.0	- + -						17.7S 172.8W, H: 23 56 28.1 h 59 km. Mb 5.0, Ms 5.2 Tonga Islands region.
20.	DBN: eP eL F WIT: eP HEE: iP	04 04 05 04 04	07 36 20 07 08	58 0 0 52.5 03.0	+ + +	22		1.5		5.3	45.0N 149.8E, H: 03 56 00.6 h 47 km. Mb 5.5, Ms 4.9 Kuril Islands.
20.	DBN: eP ePP eSKS eL F WIT: eP HEE: eP ePP	07 07 07 07 08 07 07 07	07 11 18 36 41 07 07 11	34 29 05 0 0 41.0 35.0 29.5							20.4S 70.0W, H: 06 54 11.3 h 81 km. Mb 5.6 Near coast of northern Chile.

SEISMOLOGICAL BULLETIN



Date AUGUST 1976	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		
21.	DBN: epPKP iPP epPP iZ iSKS iSP iSPP F HEE: ePKP	07	15	48							6.7S 129.6E, H: 06 56 47.2 h 120 km. Mb 6.0 Banda Sea.
21.	DBN: eL F	07	54								6.4S 107.4W, H: 06 56 50.2 h 33 km. Mb 5.0, Ms 5.3 Northern Eastern Islands Cordillera.
21.	DBN: iP ePP ePPP iS eSS eSSS eL F WIT: eP HEE: iP	22	01	05	+	7	3.9				32.6N 104.2E, H: 21 49 54.2 h 33 km. Mb 6.1, Ms 6.4 Szechwan Prov., China.
						18			61	6.8	
22.	DBN: eP ipP iS isS eSS eL F WIT: iP HEE: eP	02	12	25							60.2N 153.3W, H: 02 01 47.4 h 144 km. Mb 5.5 Southern Alaska
22.	HEE: eP e	02	50	58.5							44.6N 9.6E, H: 02 49 16.5 h 33 km. Mb 4.8 Northern Italy
22.	DBN: eL F WIT: eP HEE: iP	13	40.4								39.3N 29.1E, H: 13 28 49.0 h 14 km. Mb 4.8, Ms 4.6 Turkey.
22.	HEE: eP	17	22	45.5							37.4N 20.6E, H: 17 18 46.9 h 63 km. Mb 4.4 Ionian 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			
AUGUST 1976												
22.	DBN: ePKP ePP eSS eL F HEE: ePKP	21 21 21 22 23.6 21	29 32 50.2 18 29	10 06 11.5	-	6 22	0.4 2.5			6.0	14.0S 170.9E, H: 21 09 41.9 h 31 km. Mb 5.7, Ms 5.9 New Hebrides Islands region.	
23.	DBN: eS eL F HEE: eP	03 03 03 03	22 25.0 40 19	44 08.0							38.3N 20.7E, H: 03 15 15.5 h 52 km. Mb 4.5 Greece.	
23.	DBN: iP iPcP ePP ePPP iS eSS eSSS eL F WIT: eP i HEE: iP i	03 03 03 03 03 03 03 04 07.5 03 03 03 03	41 41 43 45 50 55 58 02 41 41 41 41	20 44 56 40 28 00 00 12.0 15.9 19.5 23.4	+	6 18	8.9			7.0	32.5N 104.2E, H: 03 30 07.6 h 33 km. Mb 6.2, Ms 6.7 Szechwan Prov., China.	
23.	HEE: eP e e	03 04 04	56 00 09	34.0 32.0 19.0							6.5N 124.1E, H: 03 42 44.4 h 58 km. Mb 5.8 Mindanao, Philippine Islands.	
23.	DBN: eL F	17 17	56.3 59								No determination of epicentre. Probably northeastern China.	
24.	DBN: eL F HEE: eL	22 22 21	17 45 40	 05.5							25.3S 70.7W, H: 21 26 12.2 h 8 km. Mb 5.6, Ms 5.0 Near coast of northern Chile.	
25.	DBN: eL F	04 04	20 27								43.2N 45.3E, H: 04 04 16.9 h 33 km. Mb 4.5 Eastern Caucasus.	
25.	DBN: eL F	04 04	41.5 46								No determination of epicentre Probably northeastern China.	
25.	DBN: eP ePP eSKS eSP eSPP eL F WIT: eP e HEE: eP i	12 12 12 12 12 13 14.9 12 12 12 12	43 47 54 55 56 16 43 43 43 43	24 20 00 58 42 19.5 38.0 25.0 43.7		20			5.0	5.0	6.0	13.0N 124.4E, H: 12 29 54.2 h 23 km. Mb 5.6, Ms 5.6 Luzon, Philippine 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		
AUGUST 1976											
26.	HEE: e	05	13	58.5	+						No determination of epicentre.
26.	WIT: iP HEE: iP	14	42	00.0	+						37.1N 116.1W, H: 14 30 00.2 h 0 km. Mb 5.3, Ms 4.2 Southern Nevada.
27.	HEE: e	03	39	05.0							No determination of epicentre.
28.	WIT: eP e HEE: iP e	03	05	04.0	+						50.0N 79.0E, H: 02 56 57.5 h 0 km. Mb 5.8 Eastern Kazakh SSR
28.	DBN: eL F	07	14.0								39.9N 118.8E, H: 06 34 04.3 h 33 km. Mb 4.7 North eastern China.
28.	HEE: iP	16	33	09.0	+						16.0S 173.2W, H: 16 13 31.7 h 33 km. Mb 5.2, Ms 4.6 Tonga Islands.
29.	DBN: eL F	03	05								2.6S 127.0E, H: 02 06 59.4 h 33 km. Mb 5.5, Ms 5.0 Ceram Sea.
29.	DBN: eL F	06	00								29.8S 111.8W, H: 04 57 34.9 h 33 km. Mb 5.5, Ms 5.6 Easter Island region.
29.	WIT: eP HEE: eP	15	25	44.5	+						3.4N 96.3E, H: 15 13 01.8 h 50 km. Mb 5.1 Northern Sumatra.
30.	DBN: eP eSKS eL F HEE: eP e	02	14	04		20	2.8	2.8	5.8		6.6N 123.9E, H: 02 00 10.3 h 33 km. Mb 5.3, Ms 5.3 Mindanao, Philippine Islands.
30.	WIT: ePKP HEE: ePKP	03	03	31.5							23.2S 179.1E, H: 02 44 44.3 h 571 km. Mb 5.1 South of Fiji Islands.
30.	HEE: ePKP2	05	47	31.5	+						21.2S 179.1W, H: 05 28 39.3 h 613 km. Mb 4.9 Fiji Islands region.
30.	DBN: ePP eSP eL F	08	57	54		20	2.7		5.9		1.1N 147.5E, H: 08 37 54.8 h 53 km. Mb 5.8, Ms 5.9 Caroline Islands 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		
AUGUST 1976											
30.	DBN: eSKS eL F	17	28	28							6.2N 123.8E, H: 17 03 48.3 h 33 km. Mb 5.1, Ms 5.4 Mindanao, Philippine Islands.
31.	DBN: eL F	03	03								56.3S 26.2W, H: 02 07 38.1 h 45 km. Mb 5.1, Ms 5.9 South Sandwich Islands region
31.	DBN: eS eL F HEE: eP e	03	46	08		20		7.1		5.9	39.8N 118.9E, H: 03 25 27.8 h 32 km. Mb 5.3, Ms 5.3 North eastern China.
31.	HEE: eP	03	36	52.0	+						
		03	37	13.5	+						
31.	HEE: eP	03	38	48.5							39.9N 118.5E, H: 03 27 31.7 h 95 km. Mb 5.2 Northeastern China.
31.	HEE: iPKP2 i	09	27	20.3	-						30.1S 178.1W, H: 09 06 50.4 h 55 km. Mb 5.4 Kermadec Islands.
		09	27	36.5	+						
31.	DBN: ePKP eL F HEE: ePKP2	13	42	02	+	18		1.5		5.8	28.3S 176.6W, H: 13 22 10.9 h 51 km. Mb 5.5, Ms 5.9 Kermadec Islands region.
		14	47								
		16.1									
		12	42	34.5	-						

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		
SEPT. 1976											
1.	DBN: eL F WIT: eP HEE: eP	01 02 01 01	45.5 00 18 18	 03.0 07.0							32.5N 104.2E, H: 01 06 51.8 h 18 km. Mb 5.1 Szechwan Prov., China.
1.	DBN: ePKP eL F WIT: iP HEE: iP i	13 14 14 13 13 13	45 42 59 45 45 45	02 00.0 04.0 06.1	 + - +						20.4S 169.4E, H: 13 25 29.8 h 75 km. Mb 5.7 New Hebrides Islands.
2.	DBN: eL F	11 11	00 30								13.3N 90.0W, H: 10 20 25.9 h 81 km. Mb 5.0 Near coast of Guatemala.
2.	WIT: ePKP HEE: iP i	17 17 17	49 49 49	17.5 22.5 28.3	 - -						20.1S 176.7W, H: 17 30 08.6 h 309 km. Mb 4.9 Fiji Islands region.
3.	HEE: eP	10	08	47.5							28.0N 100.3E, H: 09 57 28.5 h 33 km. Mb 5.2 Szechwan Prov., China.
3.	DBN: eL F HEE: e(P)	22 22 22	16 44 01	 12.0							38.9N 70.7E, H: 21 52 46.8 h 43 km. Mb 5.1, Ms 4.7 Afghanistan-USSR border region.
4.	DBN: eL F	12 13	50 20								10.2S 161.1E, H: 11 41 59.7 h 33 km. Mb 5.6 Solomon Islands.
5.	DBN: eL F	06 06	17 36								30.2N 131.0E, H: 05 28 56.2 h 16 km. Mb 4.9 Kyushu, Japan.
5.	WIT: eP HEE: eP	16 16	50 50	29.5 32.0	 +						31.4N 50.0E, H: 16 43 15.8 h 44 km. Mb 5.1 Iran.
5.	DBN: eS eL F WIT: eP HEE: eP epP	20 20 21 20 20 20	34 52 18 24 24 24	26 09.5 12.5 38.0	 +						18.7N 101.1W, H: 20 11 37.9 h 86 km. Mb 5.3 Guerrero, Mexico.
5.	DBN: eL F	21 22.3	28								8.2S 120.6E, H: 20 33 19.0 h 68 km. Mb 5.6 Flores Island 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		
SEPT. 1976											
5.	DBN: eS eL F WIT: eP HEE: eP	22	18	22							38.3N 40.9E, H: 22 07 34.9 h 22 km. Mb 5.1, Ms 4.8 Turkey.
6.	DBN: eL F	02	34								7.8N 123.7E, H: 01 42 17.0 h 15 km. Mb 5.4, Ms 4.6 Mindanao, Philippine Islands.
6.	HEE: ePKP	05	45	50.5							15.2S 177.2W, H: 05 27 00.8 h 405 km. Mb 4.5 Fiji Islands region.
6.	DBN: eS eL F WIT: eP HEE: iP i	10	05	20		18			2.4	4.6	58.2N 32.2W, H: 09 56 25.6 h 33 km. Mb 4.9 North Atlantic Ocean.
6.	DBN: eL F	17	42.7								39.9N 118.7E, H: 17 02 00.4 h 33 km. Mb 4.8 Northeastern China.
6.	HEE: eP	19	29	55.5							46.2N 13.0E, H: 19 28 13.7 h 5 km. Mb 5.2 Northern Italy.
7.	HEE: ePn i	02	50	43.0							ISC: 51.0N 6.6E, H: 02 50 31.0, h 0 km, M 2.5 (BNS). Germany.
7.	HEE: eP	04	53	02.5							4.8N 97.0E, H: 04 40 18.7 h 33 km. Mb 5.5, Ms 4.9 Northern Sumatra.
7.	DBN: eL F	06	51								37.5N 143.1, H: 06 03 10.2 h 115 km. Mb 5.0 Off east coast of Honshu, Japan.
7.	DBN: eL F	07	10								13.2S 166.4E, H: 05 57 31.6 h 69 km. Mb 5.3 New Hebrides Islands.
7.	HEE: ePKP	10	28	37.0							14.9S 167.2E, H: 10 09 23.5 h 114 km. Mb 5.5 New Hebrides 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		
SEPT. 1976											
8.	DBN: eP ePP eSKS ePS ePPS eSSS eL F HEE: eP ePP	02 02 02 02 02 02 03 04.0 02 02	27 31 37 41 42 50.8 06 27 31	04 32 46 08 00 04.0 28.0							0.1S 124.8E, H: 02 12 48.9 h 64 km. Mb 5.9 Molucca Sea.
8.	DBN: eL F	10 10	09 46								6.7N 123.9E, H: 09 14 58.6 h 33 km. Mb 5.3, Ms 4.9 Mindanao, Philippine Islands.
8.	HEE: ePg	19	56	40							45.7N 1.0E, H: 19 54 41.6 h 33 km. France.
8.	DBN: eL F WIT: eP HEE: eP	20 20 20 20	43 58 22 22	 35.5 37.0							32.0N 78.7E, H: 20 13 02.3 h 18 km. Mb 5.4, Ms 5.0 Kashmir-Tibet border region.
9.	DBN: eP eS eL F WIT: eP HEE: eP	09 09 09 10 09 09	33 37 40 15 33 33	22 52 14.0 32.5	+						77.8N 7.8E, H: 09 27 45.2 h 5 km. Mb 5.2, Ms 5.2 Svalbard region.
9.	DBN: eL F	10 10	25 44								24.4N 121.8E, H: 09 39 38.0 h 23 km. Mb 5.3 Taiwan.
9.	DBN: eL F	13 14	59 11								41.3S 88.2W, H: 12 56 10.4 h 33 km. Mb 4.9, Ms 5.2 West Chile Rise.
11.	DBN: eP iZ eL F WIT: eP HEE: iP i	16 16 16 16 16 16	33 33 34.9 33 32 32	12 24 08.5 53.2 54.1	- +	16		65	5.4		46.3N 13.2E, H: 16 31 12.0 h 16 km. Mb 5.2, Ms 5.5 Northern Italy.
11.	DBN: eL F HEE: iP	16 17 16	38.7 11 36	 44.3	+						46.3N 13.2E, H: 16 35 03.3 h 20 km. Mb 5.3, Ms 5.4 Northern Italy.

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		
SEPT. 1976											
11.	HEE: eP	16	50	36.5							46.2N 13.2E, H: 16 48 55.9 h 10 km. Northern Italy.
12.	HEE: eP	01	21	52							ISC: 46.3N 13.3E, H: 01 19 58.3, h 5 km. Austria.
12.	DBN: eL F WIT: e HEE: eP	19 20 19 19	57.6 04 55 55	38.5 10.0							46.2N 13.2E, H: 19 53 27.6 h 3 km. Mb 4.4 Northern Italy.
13.	DBN: eL F	01 01	27.8 33								No determination of epicenter.
13.	DBN: eL F	04 05	44 12								26.4S 115.0W, H: 03 41 46.4 h 33 km. Mb 4.9, Ms 5.2 Easter Island Cordillera.
13.	DBN: eL F	09 09	08 39								26.6S 115.2W, H: 08 05 28.0 h 33 km. Mb 4.9, Ms 5.0 Easter Island Cordillera.
13.	WIT: e HEE: eP	18 18	56 56	54 28.0							46.2N 13.2E, H: 18 54 46.1 h 10 km. Mb 3.9 Northern Italy.
13.	HEE: eP	19	43	56.0							46.1N 13.0E, H: 19 42 13.7 h 10 km. Mb 3.6 Northern Italy.
13.	HEE: ePKP2	22	06	04.5							30.1S 178.0W, H: 21 45 36.1 h 60 km. Mb 5.5 Kermadec Islands.
14.	WIT: ePKP HEE: ePKP	00 00	47 47	42.5 47.5							ISC: 19.0S 173.1W, H: 00 27 44.0, h 33 km. Tonga.
14.	DBN: ipP iZ eS eL F WIT: e HEE: eP i i	06 06 07 07 07.7 06 06 06 06	54 54 02 15 54 54 54 54	44 57 44 23.5 17.5 29.4 44.0	 - - - +						29.8N 89.6E, H: 06 43 52.3 h 82 km. Mb 5.5 Tibet.
14.	DBN: eL F	16 18	47 12			20			1.8	5.8	26.4S 115.1W, H: 15 46 08.6 h 33 km. Mb 5.5, Ms 5.7 Easter Island Cordillera.

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		
SEPT. 1976	14. DBN: ePP	23	09	26						3.7S 138.0E, H: 22 49 32.4 h 75 km. Mb 5.8 West Iran.	
	epPP	23	09	54							
	eSP	23	19	06							
	eL	23	46								
	F	00	24								
14. HEE: eP	23	49	21.3							28.0N 53.5E, H: 23 41 26.4 h 23 km. Mb 5.0, Ms 5.2 Southern Iran.	
15.	DBN: eP	02	14	16						55.5N 166.3E, H: 02 02 53.6 h 33 km. Mb 5.0, Ms 5.3 Komandorsky Islands region.	
	eS	02	23	32							
	eSS	02	28	00							
	eL	02	40								
	F	in next shock									
15.	DBN: iP	03	17	18	-	10	10.6			46.3N 13.2E, H: 03 15 19.9 h 10 km. Mb 5.7, Ms 6.0 11 reported killed. Northern Italy.	
	iS	03	18	52							
	eL	03	19.2			16		200			
	F	05.4									
	WIT: eP	03	17	16.5							
15.	HEE: iP	03	17	18.3	+					46.3N 13.1E, H: 04 38 53.3 h 10 km. Mb 4.9 Northern Italy.	
	HEE: iP	03	17	00.9	-						
	DBN: eL	04	43.0								
	F	in prec. shock									
	WIT: e	04	40	59.0	-						
15.	HEE: eP	04	40	34.0	-					46.3N 13.1E, H: 04 58 42.5 h 8 km. Mb 4.5 Northern Italy.	
	DBN: eL	05	02.9								
	F	in prec. shock									
	WIT: e	05	00	49.5							
	HEE: eP	05	00	23.0							
15.	DBN: eL	06	20							No determination of epicenter.	
	F	06	49								
15.	DBN: iP	09	23	15	+	10	15.2			46.3N 13.1E, H: 09 21 19.1 h 17 km. Mb 5.4, Ms 5.9 Northern Italy. (WIT: no records)	
	eS	09	24	46							
	eL	09	25.2								
	F	11.7									
	HEE: iP	09	22	58.9	+						
15. HEE: eP	09	47	36.0							46.2N 13.1E, H: 09 45 55.6 h 10 km. Mb 4.1 Northern Italy.	
15.	DBN: eL	11	15.1							46.3N 13.2E, H: 11 11 10.8 h 10 km. Mb 4.9, Ms 4.9 Northern Italy.	
	F	in prec. shock									
	HEE: eP	11	12	51.5							
15. HEE: e(P)	19	32	55.5							46.2N 13.2E, H: 19 31 11.0 h 10 km. Northern Italy.	

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		
SEPT. 1976	HEE: eP	20	25	49.5						46.2N 12.9E, H: 20 24 09.9 h 10 km. Mb 3.5 Northern Italy.	
	e	20	26	03.0							
15.	WIT: ePg	23	40	45.5						48.3N 8.9E, H: 23 39 08.9 h 5 km. Germany.	
	HEE: ePn	23	40	02.5	+						
16.	DBN: iP	03	33	25	+	6	1.2			84.3N 0.8E, H: 03 26 52.0 h 8 km. Mb 5.3, Ms 5.5 North of Svalbard.	
	iPP	03	34	25							
	iS	03	38	40							
	eSS	03	40.5								
	eL	03	42.0			17	4.7		5.2		
	F	in next shock									
	WIT: e	03	33	28.5							
	HEE: eP	03	33	35.5							
16.	DBN: eL	04	18.5			17	2.5		4.9	84.4N 0.9E, H: 04 03 04.1 h 10 km. Mb 5.0, Ms 5.3 North of Svalbard.	
	F	in next shock									
	HEE: eP	04	09	51.0							
16.	DBN: eL	04	28.6			17	2.7		4.9	84.2N 2.1E, H: 04 13 15.5 h 10 km. Mb 5.2, Ms 5.4 North of Svalbard.	
	F	in next shock									
	HEE: eP	04	19	56.0							
16.	DBN: eL	04	42.4							84.2N 0.1E, H: 04 26 56.7 h 10 km. Mb 5.0, Ms 5.3 North of Svalbard.	
	F	in next shock									
	HEE: e(P)	04	33	44.5							
16.	DBN: eL	04	44.2							84.2N 1.0E, H: 04 28 23.3 h 15 km. Mb 5.2 North of Svalbard.	
	F	in next shock									
	HEE: eP	04	35	05.5							
16.	DBN: eP	05	19	36						84.2N 0.5E, H: 05 13 05.9 h 10 km. Mb 5.1, Ms 5.5 North of Svalbard.	
	ePP	05	20	50							
	eS	05	24	52							
	eSS	05	26.7								
	eL	05	28			17	2.7		4.9		
	F	06.7									
	HEE: iP	05	19	46.3	+						
16.	DBN: ePKP	11	45	44						9.2S 148.1E, H: 11 26 36.8 h 15 km. Mb 5.7, Ms 5.9 East Papua New Guinea region.	
	iPP	11	47	44							
	ePKS	11	49	00							
	ePPP	11	50	30							
	ePS	11	57.8								
	eSPP	11	59	20							
	eSSS	12	10.0								
	eL	12	29			20	2.8		6.0		
	F	14.2									
	WIT: ePKP	11	45	42.5	-						
	HEE: ePKP	11	45	45.0	+						

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		
SEPT. 1976											
16.	WIT: ePKP	23	32	03.0							25.3S 179.8E, H: 23 12 59.7 h 445 km. Mb 5.0 South of Fiji Islands.
17.	DBN: eP	01	27	45							38.0N 14.7E, H: 01 23 55.9 h 45 km. Mb 4.9 Sicily.
	eL	01	33.0								
	F	01	41								
	HEE: eP	01	27	27							
17.	DBN: eL	17	07.9								43.8N 85.2E, H: 16 39 37.4 h 30 km. Mb 4.8 Northern Sinkiang Prov., China.
	F	17	15								
18.	DBN: eL	11	13								52.3N 159.5E, H: 10 32 57.2 h 36 km. Mb 4.9, Ms 4.8 Off east coast of Kamchatka.
	F	11	45								
18.	DBN: eL	14	12								2.4N 126.8E, H: 13 11 49.7 h 50 km. Mb 5.5, Ms 4.8 Molucca Passage.
	F	14	31								
18.	DBN: eL	19	54.7								39.9N 118.8E, H: 19 15 01.8 h 33 km. Mb 4.9 Northeastern China.
	F	20	28								
19.	DBN: eL	13	02								7.3N 82.2W, H: 12 23 30.7 h 5 km. Mb 5.2, Ms 4.7 South of Panama.
	F	13	32								
	WIT: eP	12	36	05.0							
	HEE: eP	12	36	01.5							
19.	DBN: eL	14	37								22.4N 101.0E, H: 13 56 13.7 h 24 km. Mb 4.9, Ms 4.5 Burma-China border region.
	F	15	05								
19.	HEE: eP	14	54	16							45.4N 14.2E, H: 14 52 20.3 h 33 km. Yugoslavia.
19.	DBN: eP	15	10	37							11.1S 32.9E, H: 14 59 43.7 h 27 km. Mb 5.7, Ms 5.7 Zambia.
	ePP	15	13	12							
	iS	15	19	36							
	eL	15	30								
	F	17	00								
	WIT: iP	15	10	40.3	+						
	HEE: iP	15	10	32.4	+						
	ipP	15	10	40.3							
19.	WIT: eP	16	22	03.0							74.2N 8.8E, H: 16 17 12.2 h 33 km. Mb 4.7 Greenland Sea.
	HEE: eP	16	22	21.5							

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		
SEPT. 1976											
19.	DBN: eP eS eL F WIT: iP epP HEE: eP e	21 21 21 22 21 21 21 21	10 21 46 08 10 10 10 11	37 06 08 40.2 55.0 41.5 03.5	- + - -						18.2N 100.5W, H: 20 58 05.1 h 55 km. Mb 5.6 Guerrero, Mexico.
20.	DBN: eL F	04 04	02 10								16.7N 61.1W, H: 03 31 55.1 h 51 km. Mb 4.9, Ms 4.1 Leeward Islands.
20.	DBN: eL F WIT: e HEE: e	09 09 09 09	14.5 17 12 11								46.2N 13.2E, H: 09 09 59.2 h 19 km. Mb 3.8 Northern Italy.
20.	DBN: eSKS eL F	15 15 16.9	29 56	16							6.4N 124.0E, H: 15 04 45.3 h 47 km. Mb 5.0, Ms 5.1 Mindanao, Philippine Islands.
20.	DBN: eL F	20 20	10 32								26.6S 115.2W, H: 19 08 56.0 h 33 km. Mb 5.0 Easter Island Cordillera.
20.	DBN: eL F WIT: eP	23 23 22	24.1 38 56								32.8N 104.1E, H: 22 45 28.5 h 42 km. Mb 5.0 Szechwan Prov., China.
21.	WIT: ePKP HEE: ePKP	02 02	37 37	00.5 05.5	-						20.9S 178.7W, H: 02 18 19.3 h 581 km. Mb 5.3 Fiji Islands region.
21.	HEE: iP	15	04	55.3	+						38.8N 14.7E, H: 15 01 50.6 h 302 km. Mb 4.9 Sicily.
21.	DBN: eL F	21 22	50 08								0.1N 124.9E, H: 20 52 10.0 h 79 km. Mb 5.4 Northern Celebes.
22.	DBN: iP eS eL F WIT: iP HEE: iP	00 00 00 02.0 00 00	28 37 52	04 56 58.5 09.2	+ + +	6	27				44.9N 149.2E, H: 00 16 08.2 h 64 km. Mb 6.1 Kuril Islands.
22.	DBN: eL F	03 03	07 57								51.7N 176.0W, H: 02 30 25.7 h 43 km. Mb 4.8, Ms 5.1 Andreanof Is., Aleutian Is.

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		
SEPT. 1976											
22.	DBN: eL F	12	26								30.2S 177.7W, H: 11 04 51.3 h 33 km. Mb 5.4 Kermadec Islands.
22.	DBN: eL F	12	56								No determination of epicenter.
22.	DBN: ePP eSS eL F	16	31	45		22		1.5		5.5	46.2S 13.9W, H: 16 14 08.2 h 25 km. Mb 5.7, Ms 5.4 South Atlantic Ridge.
22.	DBN: eL F	20	15.5								No determination of epicenter.
22.	DBN: eP eL F WIT: eP e HEE: iP e	20	17	45							40.0N 106.3E, H: 20 07 03.2 h 29 km. Mb 5.6, Ms 5.7 Northern China.
		20	17	39.5	+						
		20	17	49.5							
		20	17	48.3	+						
		20	17	59.0							
23.	DBN: eL F	01	35								4.5N 128.4E, H: 00 33 42.9 h 41 km. Mb 5.2, Ms 4.8 North of Halmahera.
23.	DBN: eL F	13	33								No determination of epicenter.
		13	44								
23.	DBN: eL F	15	49								5.9N 127.1E, H: 14 52 40.9 h 73 km. Mb 5.2 Philippine Islands region.
		16	05								
24.	DBN: eL F	21	13								0.8N 28.4W, H: 20 45 02.9 h 33 km. Mb 5.0 Central Mid-Atlantic Ridge.
		21	26								
25.	DBN: eL F	04	22								6.8N 123.8E, H: 03 30 03.6 h 45 km. Ms 5.7, Ms 5.3 Mindanao, Philippine Islands.
		05.3									
25.	DBN: eL F	12	29.4								39.9N 118.4E, H: 11 50 26.0 h 35 km. Mb 5.0 Northeastern China.
		12	34								
25.	HEE: ePKP2	12	33	20.5							22.3S 170.3E, H: 12 13 28.7 h 22 km. Mb 5.0 Loyalty Islands 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		
SEPT. 1976											
25.	DBN: eL F	22	48								26.6S 115.0W, H: 21 47 23.2 h 33 km. Mb 5.5, Ms 5.4 Easter Island Cordillera.
26.	DBN: eL F	08	16								No determination of epicenter.
26.	DBN: eL F	19	21								No determination of epicenter.
27.	DBN: ePKP eL F	13	03	40							33.1S 179.3W, H: 12 43 45.4 h 44 km. Mb 5.2, Ms 5.3 South of Kermadec Islands.
28.	DBN: eL F	19	27								59.4S 149.7E, H: 18 04 24.4 h 33 km. Mb 5.0, Ms 5.0 West of Macquarie Island.
28.	DBN: eL F	23	53.7								39.9N 118.9E, H: 23 13 00.3 h 33 km. Mb 4.9 Northeastern China.
29.	DBN: eL F WIT: iP HEE: iP	03	18								73.4N 54.8E, H: 02 59 57.4 h 0 km. Mb 5.8, Ms 4.5 Novaya Zemlya.
29.	DBN: eL F	06	03.5								No determination of epicenter.
29.	DBN: eP eS eSSS eL F WIT: iP HEE: eP	10	04	02							19.0N 80.8W, H: 09 52 33.8 h 33 km. Mb 5.2, Ms 4.9 Cuba region.
29.	DBN: ePKP eL F WIT: iP e HEE: iP e	15	58	52							23.0S 176.1W, H: 15 39 01.0 h 33 km. Mb 5.4, Ms 4.9 South of Fiji Islands.
29.	DBN: eL F	21	07								6.8N 124.2E, H: 20 12 54.4 h 49 km. Mb 5.2, Ms 4.7 Mindanao, Philippine 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		
SEPT. 1976	29. DBN: eL	21	52			20			2.5	5.7	6.9N 124.1E, H: 21 02 32.7 h 41 km. Mb 6.0, Ms 5.4 Mindanao, Philippine Islands.
	F	22.8									
	HEE: eP	21	16	24.0	+						
30.	DBN: iP	00	37	12							37.5N 20.4E, H: 00 33 02.0 h 43 km. Mb 4.9, Ms 4.9 Ionian Sea.
	iS	00	40	40		21			6.3	4.9	
	eL	00	42.2								
	F	01.5									
	WIT: e	00	37	33.5							
	HEE: e(P)	00	37	02.0	+						
30.	HEE: ePKP	03	04	31.0							17.8S 167.5E, H: 02 44 46.3 h 6 km. Mb 4.3 New Hebrides Islands.
30.	DBN: iP	23	54	08		10	1.7				30.2S 177.9W, H: 23 34 14.4 h 32 km. Mb 5.7, Ms 6.5 Kermadec Islands.
	iPKP2	23	54	48							
	iPP	23	58	28							
	eSS	00	18	28							
	eL	00	49			20			8.0	6.6	
	F	03.5									
	WIT: ePKP	23	54	10.5							
	iPKP2	23	54	40.0	-						
	ePP	23	58	18							
	HEE: ePKP	23	54	11.0							
	ePKP2	23	54	47.0	-						
	i	23	54	55.3							
	ePP	23	58	27.5							
	e	23	58	46.0							

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		
OCT. 1976	4. DBN: eL	08	17								30.5S 177.5W, H: 16 50 08.8 h 33 km. Mb 5.5 Kermadec Islands.
	F	08	42								
	HEE: ePKP2	07	10	50.0							
	4. HEE: ePKP	14	07	07.0							16.1S 172.9W, H: 13 47 30.8 h 25 km. Mb 4.9 Samoa Islands region.
	5. WIT: ePKP	01	20	31.0							17.8S 174.7W, H: 01 01 04.1 h 104 km. Mb 4.9 Tonga Islands.
	HEE: ePKP	01	20	36.0							
	5. HEE: ePKP2	16	18	04.5							30.4S 177.3W, H: 15 57 27.4 h 15 km. Mb 5.5 Kermadec Islands.
	5. DBN: eL	17	19								0.6S 78.7W, H: 16 36 29.1 h 33 km. Mb 5.2 Ecuador.
	F	17	57								
	5. DBN: ePKP	18	21	20	-						6.4S 153.0E, H: 18 02 15.4 h 22 km. Mb 6.3, Ms 6.0 New Britain region.
iPP	18	23	20								
ePKS	18	24	50								
iPPP	18	26	11								
iSP	18	33	32								
eSPP	18	34	52								
eL	18	58			22		3.8		6.1		
F	20.7										
WIT: iPKP	18	21	19.3	+							
i	18	21	22.4	-							
ePP	18	23	18.0								
HEE: ePKP	18	21	21.0	+							
i	18	21	25.5								
ePP	18	23	24.0								
6. DBN: eL	01	43								35.3N 124.3E, H: 01 01 11.1 h 33 km. Mb 5.2, Ms 5.2 Yellow Sea.	
F	01	56									
WIT: eP	01	13	04.0								
HEE: eP	01	13	13.0								
6. DBN: eL	09	54								0.7S 78.8W, H: 09 12 38.9 h 33 km. Mb 5.7 (9 killed). Ecuador.	
F	10	05									
HEE: eP	09	25	24.5								
6. DBN: eL	14	19								37.1N 141.3E, H: 13 38 42.1 h 81 km. Mb 5.6 Near east coast of Honshu, Japan.	
F	14	39									
WIT: eP	13	50	56.5								
HEE: eP	13	51	05.0								
7. DBN: eL	12	14.5								39.8N 118.5E, H: 11 33 52.1 h 33 km. Mb 5.0 Northeastern China.	
F	12	18									

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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		
OCT. 1976	1. WIT: iPKP	03	53	43.7	-					22.4S 178.1W, H: 03 34 36.3	
	HEE: ePKP	03	53	48.0	-					h 369 km. Mb 4.9	
	e	03	54	31						South of Fiji Islands.	
1.	WIT: ePKP	07	32	50.5						19.7S 177.6W, H: 07 13 51.2	
	i	07	32	52.5						h 384 km. Mb 5.3	
	epPKP	07	34	21.5						Fiji Islands region.	
	HEE: ePKP	07	32	56.5							
	epPKP	07	34	32.5							
1.	DBN: ePKKP	12	16	32						3.5S 130.9E, H: 11 47 06.1	
	eL	12	44							h 33 km. M 5.5, Mb 5.2	
	F	13.7								Ceram.	
1.	DBN: eP	17	54	14						45.7N 26.5E, H: 17 50 43.2	
	eZ	17	54	18						h 146 km. Mb 5.2	
	eL	17	57.2							Rumania.	
	F	18	04								
	WIT: eP	17	54	05.5	+						
	i	17	54	09.6	-						
	HEE: eP	17	54	05.0							
1.	DBN: eL	23	06							58.3S 24.8W, H: 22 08 32.0	
	F	23	43							h 33 km. Mb 5.3, Ms 5.6 South Sandwich Islands region.	
2.	WIT: eP	10	11	37.0						39.5N 40.0E, H: 10 06 01.1	
	e	10	11	41.0	+					h 40 km. Mb 4.7	
	HEE: eP	10	11	37.5						Turkey.	
2.	DBN: ePKP	14	07	32						35.1S 179.4W, H: 13 47 30.4	
	eL	15	10							h 34 km. Mb 5.4, Ms 5.5	
	F	16	17							East of North Island,	
	HEE: ePKP2	14	08	25.0						New Zealand.	
2.	WIT: ePKP	15	58	41.0						19.6S 173.4E, H: 15 39 02.0	
	HEE: e(PKP)	15	58	50.5						h 49 km. Mb 4.7 New Hebrides Islands region.	
2.	DBN: eL	21	04							38.4S 73.3W, H: 20 00 26.2	
	F	21	16							h 35 km. Mb 5.1 Near coast of central Chile.	
2.	DBN: eL	23	23							34.9S 179.5W, H: 21 54 21.3	
	F	23	59							h 32 km. Mb 5.1 South of Kermadec Islands.	
3.	DBN: eL	01	04.7							38.4N 26.7E, H: 00 53 47.9	
	F	01	07							h 16 km. Aegean Sea.	
3.	HEE: ePKP	08	12	53.0						7.0S 155.6E, H: 07 53 48.0 h 56 km. Mb 5.5 Solomon 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		
OCT. 1976											
7.	HEE: eP	23	47	49.0							46.0N 2.5W, H: 23 45 54.1 h 33 km. Bay of Biscay.
8.	DBN: eS	17	22	48							38.5N 40.6E, H: 17 11 54.1 h 23 km. Mb 4.8 Turkey.
	eL	17	27								
	F	17	45								
	WIT: eP	17	17	43.5							
	HEE: e(P)	17	17	46.5							
8.	DBN: eP	21	18	24							18.9N 121.3E, H: 21 05 31.0 h 57 km. Mb 5.7 Luzon, Philippine Islands.
	ePP	21	22	00							
	eSKS	21	28	56							
	eSP	21	30	15							
	eSS	21	35.5								
	eSSS	21	39.3								
	eL	21	48								
	F	22.8									
	WIT: iP	21	18	22.5	+						
	HEE: eP	21	18	29.0							
	e	21	18	37.5							
9.	DBN: eL	06	54								23.9N 102.5E, H: 16 11 38.5 h 33 km. Mb 5.0 Yunnan Province, China.
	F	07	05								
9.	DBN: iP	12	43	29	+						10.8N 85.8W, H: 12 31 15.8 h 85 km. Mb 5.3 Costa Rica.
	eL	13	09								
	F	14	08								
9.	DBN: eL	23	05								4.4N 124.8E, H: 22 08 44.4 h 35 km. Mb 5.5, Ms 5.0 Celebes Sea.
	F	23	33								
10.	DBN: eL	03	43								45.3N 151.0E, H: 02 58 58.2 h 38 km. Mb 5.2, Ms 4.7 Kuril Islands.
	F	03	54								
	WIT: eP	03	10	51.5							
10.	DBN: eL	04	10								No determination of epicenter.
	F	04	17								
10.	DBN: eL	15	12								43.3N 147.7E, H: 14 31 59.9 h 21 km. Mb 5.1, Ms 5.1 Kuril Islands.
	F	15	50								
	WIT: eP	14	44	03.0							
11.	DBN: eL	07	20								3.4N 96.3E, H: 06 30 03.7 h 52 km. Mb 5.4, Ms 5.2 Northern Sumatra.
	F	07.9									
	WIT: e(P)	06	42	54.5	+						
	HEE: eP	06	42	49.0							
	e	06	42	56.0							

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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		
OCT. 1976	11. WIT: iPKP	21	21	42.5	-						17.9S 177.4W, H: 21 02 49.1 h 396 km. Mb 5.3 Fiji Islands region.
	HEE: iPKP	21	21	48.1	-						
12.	DBN: eL	01	47								10.5S 161.3E, H: 00 40 52.9 h 106 km. Mb 6.0 Solomon Islands.
	F	02	14								
	WIT: epPKP	01	00	25.0							
	HEE: epPKP	01	00	28.5							
	e	01	00	36.5							
12.	DBN: eL	05	15								31.3N 141.7E, H: 04 24 54.7 h 29 km. Mb 5.1 South of Honshu, Japan.
	F	05	31								
12.	DBN: eL	15	58			22		3.8		5.7	24.5N 98.8E, H: 15 19 33.5 h 33 km. Mb 5.0 Burma-China border region.
	F	16	24								
13.	DBN: eL	02	53.0								46.3N 13.1E, H: 02 48 40.6 h 33 km. Northern Italy.
	F	02	55								
	WIT: e(P)	02	50	44.5	+						
	HEE: eP	02	50	18.5	+						
	e	02	50	25.5							
13.	DBN: eL	12	31								36.5S 73.1W, H: 11 30 16.6 h 27 km. Mb 5.1, Ms 4.8 Near coast of central Chile.
	F	12	43								
13.	DBN: eL	13	11.0								No determination of epicenter. Probably northeastern China.
	F	13	13								
14.	DBN: eL	10	00								62.4S 161.7W, H: 08 36 57.1 h 33 km. Mb 5.2 South Pacific Cordilera.
	F	10	38								
15.	DBN: eL	17	33			20			10.7	6.2	26.8N 125.6E, H: 16 47 57.9 h 39 km. Mb 5.1, Ms 5.3 Northeastern of Taiwan.
	F	18	14								
15.	DBN: eL	23	23								30.0N 52.0E, H: 23 03 26.1 h 8 km. Mb 5.1 Iran.
	F	23	56								
	WIT: eP	23	11	05.0							
	e	23	11	08.0							
	HEE: eP	23	11	02.0	+						
16.	DBN: eL	07	53								21.4N 99.7E, H: 07 12 24.4 h 33 km. Mb 4.8 Burma-China border region.
	F	08	10								
16.	DBN: eL	23	59								32.8N 94.4E, H: 23 24 49.6 h 33 km. Mb 4.7, Ms 4.4 Tibet.
	F	00	14								

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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			
OCT. 1976	17. DBN: eL F	00	32								38.6N 23.1E, H: 00 22 25.5 h 33 km. Greece.	
	18. DBN: eL F	00	27								8.5N 39.4W, H: 23 56 42.1 h 33 km. Mb 5.1 Central Mid-Atlantic Ridge.	
	18. DBN: eL F	02	19								33.1S 178.7W, H: 00 51 55.0 h 33 km. Mb 5.7 South of Kermadec Islands.	
	HEE: ePKP2 e	01	12	39.5								
		01	12	52.5								
	18. DBN: eL F	07	11									No determination of epicenter.
		07	32									
	18. DBN: eL F	08	06									34.0N 141.5E, H: 07 17 28.1 h 39 km. Mb 4.9 Off east coast of Honshu, Japan.
		08	24									
	18. DBN: eL F	10	39									30.1N 52.0E, H: 10 20 12.0 h 20 km. Mb 5.1 Iran.
		10	59									
	HEE: eP	10	27	48.5								
	18. WIT: ePKP HEE: ePKP	20	46	42.0	-							21.3S 178.7W, H: 20 27 52.1 h 498 km. Mb 4.8 Fiji Islands region.
		20	46	47.5	-							
	19. WIT: ePKP HEE: iPKP	13	14	03.0	-							18.2S 177.8W, H: 12 55 29.9 h 604 km. Mb 5.5 Fiji Islands region.
	13	14	08.5	-								
19. DBN: eL F	18	31									31.3N 141.2E, H: 17 41 26.0 h 69 km. Mb 5.4 South of Honshu, Japan.	
	18	51										
20. HEE: eP	08	06	15.0	+							73.4N 54.6E, H: 07 59 57.7 h 0 km. Mb 5.1 Novaya Zemlya.	
20. DBN: eL F	13	25									29.6N 113.5W, H: 12 38 51.7 h 33 km. Mb 4.7 Gulf of California.	
	13	38										
20. HEE: ePKP	18	50	47.5								20.0S 168.8E, H: 18 31 07.9 h 24 km. Mb 5.0 Loyalty Islands.	
21. HEE: eP	12	52	56.0								35.9N 27.0E, H: 12 48 11.8 h 99 km. Mb 4.8 Dodecanese Islands.	
21. HEE: eP	15	06	26.5								52.2N 169.4W, H: 14 54 35.6 h 36 km. Mb 5.4 Fox 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		
OCT. 1976	22. DBN: eL	19	16							56.1N 153.3W, H: 18 35 25.9 h 26 km. Mb 5.5, Ms 4.8 Kodiak Island region.	
	F	19	37								
	HEE: eP	18	46	48							
24.	DBN: eL	02	57							12.9N 124.5E, H: 02 05 40.5 h 72 km. Mb 5.4 Samar, Philippine Islands.	
	F	03	12								
24.	DBN: eL	03	18							39.5N 118.3E, H: 02 38 10.9 h 33 km. Mb 4.8 Northeastern China.	
	F	03	22								
24.	DBN: eL	16	49							27.6N 56.7E, H: 16 20 59.4 h 48 km. Mb 5.1 Southern Iran.	
	F	16	54								
	WIT: eP	16	29	09.5							
	HEE: eP	16	29	11.5							
24.	WIT: ePg	20	34	24.0						50.4N 4.0E, H: 20 33 29.1 h 33 km. Mb 5.5 Belgium.	
	HEE: iPn	20	33	55.3							
	iSn	20	34	13.5							
24.	HEE: ePKP	20	40	30.5						30.5S 177.1W, H: 20 19 51.7, h 11 km, Mb 4.9. Kermadec Islands.	
25.	WIT: ePKP	02	58	15.5						17.0S 177.4W, H: 02 39 29.9 h 570 km. Mb 5.0 Fiji Islands region.	
	HEE: ePKP	02	58	20.5							
25.	DBN: eL	08	46.7							59.2N 23.7E, H: 08 39 46.4 h 33 km. Mb 4.5 European U.S.S.R.	
	F	08	50								
	WIT: e(L)	08	45.5								
25.	DBN: eL	23	13							17.8S 71.2W, H: 22 19 04.9 h 37 km. Mb 5.3 Near coast of Peru.	
	F	23	21								
26.	DBN: iP	13	05	24	+					6.2N 126.3E, H: 12 51 29.7 h 85 km. Mb 5.8 Mindanao, Philippine Islands.	
	ePP	13	09	39							
	eSKKS	13	16	28							
	eSP	13	19	06							
	eSPP	13	19	53							
	eL	13	42								
	F	15.3									
	HEE: eP	13	05	26.5							
27.	DBN: eL	00	48							38.4N 22.6E, H: 00 38 45.9 h 33 km. Mb 4.3 Greece.	
	F	00	58								

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		
OCT. 1976											
27.	DBN: eL F	10	23.6								39.6N 18.8E, H: 10 14 55.3 h 33 km. Mb 4.7 Southern Italy.
28.	HEE: i	20	44	11.1	-						No determination of epicenter.
28.	HEE: eP	20	49	10.5							48.6N 153.2E, H: 20 37 31.6 h 140 km. Mb 5.2 Kuril Islands.
29.	DBN: ePdiff. eZ ePKP iPP eSKS iPS iPPS eSS eSSS eL F WIT: ePKP i i HEE: ePKP i	03	06	25	+						4.5S 139.9E, H: 02 51 07.6 h 33 km. Mb 6.1, Ms 7.1 West Irian. (133 killed).
		03	06	56	+						
		03	10	02	+						
		03	11	16							
		03	17	04							
		03	21	10							
		03	22	36							
		03	27.9								
		03	32.3								
		03	45			20			35	7.0	
		08.0									
		03	09	53.5	+						
		03	09	57.5							
		03	10	00.5							
		03	09	57.0							
		03	10	03.5							
29.	DBN: eL F	04.9									4.7S 139.7E, H: 03 55 23.8 h 24 km. Mb 5.4 West Irian.
		in prec. shock									
29.	DBN: eL F	10	40								2.9N 95.3W, H: 09 50 40.4 h 33 km. Mb 4.9, Ms 4.1 Galapagos Islands region.
		10	59								
29.	DBN: eL F	17	12								No determination of epicenter.
		17	17								
30.	DBN: e(P) eS eL F WIT: e(P) HEE: e(P)	09	37	40							3.5N 96.3E, H: 09 24 40.1 h 14 km. Mb 5.5, Ms 5.6 Northern Sumatra.
		09	48	08							
		10	07			20			1.8	5.5	
		11	16								
		09	37	34.5							
		09	37	36.0							
31.	DBN: ePP eSKKP eL F	19	06	28							6.1S 148.5E, H: 18 45 43.9 h 77 km. Mb 5.7 New Britain region.
		19	18	16							
		19	47								
		21.0									
31.	WIT: eP HEE: eP	19	34	29.0	+						25.6N 124.4E, H: 19 22 07.3 h 146 km. Mb 5.2 Northeast of Taiwan.
		19	34	36.5	+						

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		
NOV. 1976	1. DBN: ePP	07	13	56						6.1S 149.5E, H: 06 53 00.3 h 53 km. Mb 5.5, Ms 5.8 New Britain region.	
	ePPP	07	16	33							
	ePS	07	23	48							
	eSPP	07	25	28							
	eL	08.0			22		5.4		6.2		
	F	09.2									
2.	DBN: eP	07	27	11						29.3S 77.7E, H: 07 13 15.7 h 33 km. Mb 5.8, Ms 6.5 Mid-Indian Rise.	
	iPP	07	31	24							
	iSP	07	40	40							
	iSPP	07	41	29							
	eSS	07	46	00							
	eSSS	07	50.4								
	eL	08.0									
F	10.0										
2.	HEE: eP	15	05	54.0	-					56.2N 111.6E, H: 14 56 01.8 h 33 km. Mb 5.1 Lake Baikal region.	
2.	WIT: eP	19	41	40.0	+					26.7N 125.2E, H: 19 29 30.0 h 218 km. Mb 5.5 Northeast of Taiwan.	
	i	19	41	41.4	-						
	HEE: eP	19	41	48.5							
3.	WIT: e	10	00.6							53.6N 2.6W, H: 09 59 08.2 h 15 km. United Kingdom.	
	HEE: eP*	09	59	46.5							
4.	DBN: eL	11	23							33.1N 115.6W, H: 10 41 37.8 h 6 km. Mb 4.6, Ms 5.3 Southern California.	
	F	11	43								
4.	HEE: epPKP	17	05	44.5						21.9S 179.3W, H: 16 44 36.3 h 591 km. Mb 5.3 Fiji Islands region.	
	e	17	05	49.5							
4.	WIT: ePKP	17	25	38.0						21.5S 178.3W, H: 17 06 42.2 h 460 km. Mb 5.1 Fiji Islands region.	
	i	17	25	38.8	+						
	HEE: ePKP	17	25	45.0	+						
	e	17	25	53.0	+						
5.	HEE: eP	04	09	22.5						61.5N 112.7E, H: 03 59 56.7 h 0 km. Mb 5.3 Central Siberia.	
6.	HEE: eP	08	09	39.5						35.3N 138.5E, H: 07 57 24.7 h 176 km. Mb 5.0 Honshu, 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						
NOV. 1976	6. DBN: iP	18	15	33	-	6	3.8			6.7	27.6N 101.1E, H: 18 04 08.9 h 33 km. Mb 5.8, Ms 6.5 Szechwan Province, China.				
		iS	18	24	54										
	eSS	18	29	44											
	eSSS	18	32.7												
	eL	18	38		20	41									
	F	21.0													
	WIT: eP	18	15	26.5	-										
		i	18	15	28.9	+									
		i	18	15	32.5										
	HEE: iP	18	15	32.8	-										
		i	18	15	35.3	+									
		i	18	15	38.5										
	6. WIT: eP	19	01	33.0								27.4N 101.1E, H: 18 50 11.7 h 33 km. Mb 5.1, Ms 5.1 Szechwan Province, China.			
HEE: eP		19	01	39.0											
7. WIT: iP	00	52	25.0	-					20.8S 178.4W, H: 00 33 43.7 h 582 km. Mb 5.3 Fiji Islands region.						
	HEE: iP	00	52	30.1	-										
	i	00	52	37.5	+										
7. DBN: iP	04	08	48	+					33.8N 59.2E, H: 04 00 51.6 h 13 km. Mb 5.6, Ms 6.2 Iran.						
	iPP	04	10	35											
	iS	04	15	20											
	eSS	04	18	24											
	eL	04	21		17	58		6.5							
	F	06.2													
	WIT: eP	04	08	41.0	-										
		i	04	08	43.3										
HEE: eP	04	08	47.5	+											
7. DBN: eL	11	29							32.2N 48.0E, H: 11 07 57.2 h 51 km. Mb 5.5 Western Iran.						
	F	11	38												
	WIT: eP	11	14	48.5	+										
		i	11	14	50.4	-									
	HEE: eP	11	14	49.0											
e	11	17	18.5												
7. DBN: iP	17	22	53	+	8	2.0			6.7	8.5N 126.4E, H: 17 09 06.1 h 60 km. Mb 6.0, Ms 6.8 Mindianao, Philippine Islands.					
	iPP	17	27	03											
	iPPP	17	29	20											
	iSKS	17	33	49											
	iPS	17	36	12											
	iSPP	17	36	59											
	eSS	17	41.5												
	eL	17	54								20	24.5			
	F	20.5													
	WIT: eP	17	22	48.5											
	HEE: eP	17	22	54.5							-				
		e	17	23							08.5				
		ePP	17	27							02.0				

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		
NOV. 1976											
7.	DBN: eL F WIT: eP HEE: eP	21 22.4 21 21	42 02 03	 59.5 05.0	- - -						6.9N 123.9E, H: 20 49 13.3 h 30 km. Mb 5.9, Ms 5.8 Mindanao, Philippine Islands.
8.	DBN: iP iPP iPPP iS ePS eL F WIT: iP e HEE: eP	08 08 08 08 08 08 10.5 08 08 08	31 34 37 42 43 57 31 31 31	48 58 00 12 09 43.4 54.0 51.5	+ + +	7 20	3.0		25.0	6.6	38.1N 142.2E, H: 08 19 27.1 h 38 km. Mb 5.9, Ms 6.0 Near east coast of Honshu, Japan.
8.	WIT: eP HEE: eP	09 09	18 19	53.5 03.5	+ +						47.4N 145.9E, H: 09 07 56.7 h 402 km. Mb 5.0 Sea of Okhotsk.
8.	DBN: eL F	10 11	32 02								No determination of epicenter.
8.	DBN: eL F	11 11	43 57								8.9N 125.9E, H: 10 48 44.5 h 142 km. Mb 5.3 Mindanao, Philippine Islands.
8.	DBN: eL F HEE: ePKP2	19 20 18	58 19 49	 54.5	- -						29.7S 177.3W, H: 18 29 24.0 h 33 km. Mb 5.4, Ms 4.7 Kermadec Islands.
8.	HEE: eP	23	39	06.0							27.6N 101.1E, H: 23 27 42.7 h 33 km. Mb 5.0 Szechwan Province, China.
9.	HEE: ePKP e	01 01	45 45	09.5 19.0	+ +						18.1S 168.3E, H: 01 25 36.7 h 32 km. Mb 5.0 New Hebrides Islands.
9.	DBN: ePKP iZ eL F WIT: ePKP e i HEE: ePKP i	10 10 11 12.8 10 10 10 10 10	39 40 37 39 40 40 39 40	54 22 53.0 01.5 08.7 57.0 02.3	 + +						19.6S 173.3W, H: 10 20 09.7 h 33 km. Mb 5.3, Ms 5.7 Tonga 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		
NOV. 1976	9. DBN: eL F	20 54 21 04									50.6N 129.8W, H: 20 17 19.4 h 33 km. Mb 4.6 Vancouver Island region.
	9. WIT: eP	22 57 28.5		-							38.1N 73.6E, H: 22 49 07.6 h 156 km. Mb 5.3 Tadzhik-Sinkiang border region.
	10. WIT: iPKP HEE: iPKP i	15 08 47.4 15 08 52.9 15 08 57.4		- - -							19.5S 179.7E, H: 14 50 05.2 h 539 km. Mb 4.9 South of Fiji Islands.
	10. DBN: eL F	18 23 19 07									8.0N 126.8E, H: 17 28 23.0 h 60 km. Mb 5.5 Mindanao, Philippine Islands.
	10. DBN: eL F	19 43 20 09									8.0N 126.9E, H: 18 48 05.9 h 53 km. Mb 5.2, Ms 4.8 Mindanao, Philippine Islands.
	11. DBN: eL F WIT: eP HEE: eP	02 47 02 55 02 28 34.0 02 28 41.5									39.4N 73.8E, H: 02 20 07.9 h 43 km. Mb 5.3 Tadzhik-Sinkiang border region.
	11. DBN: iP iS eSP eSS eL F WIT: eP HEE: eP	03 28 34 03 38 48 03 39 38 03 43 52 03 58 04 58 03 28 38.5 03 28 36.0		- - - - - -							5.0N 78.2W, H: 03 16 15.3 h 33 km. Mb 5.5, Ms 5.5 South of Panama.
	11. DBN: eL F	11 50 12 17									0.3N 126.1E, H: 10 53 28.0 h 30 km. Mb 5.0 Molucca Passage.
	12. DBN: eL F	10 02.0 in next shock									38.6N 26.7E, H: 09 51 10.8 h 24 km. Mb 4.4 Aegean Sea.
	12. DBN: eL F WIT: iP	10 05.5 10 34 10 00 09.5				18		10.0		5.2	38.6N 26.7E, H: 09 55 33.4 h 6 km. Mb 4.7 Aegean Sea.
	12. DBN: eL F	13 53.0 14 06									39.9N 118.8E, H: 13 13 14.1 h 33 km. Mb 4.7 Northeastern China.

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		
NOV. 1976	12. DBN: eS	15	00	24		20	5.3	5.3	5.3	72.4N 70.2W, H: 14 47 24.9 h 33 km. Mb 5.4, Ms 5.1 Baffin Bay.	
	eL	15	05.5								
	F	16	08								
	WIT: eP	14	54	33.0							
	e	15	54	40.0							
	HEE: iP	14	54	46.0							
12. HEE: eP		21	38	38.5						27.6N 101.2E, H: 21 27 14.3 h 33 km. Mb 4.8 Szechwan Province, China.	
12. WIT: iP		23	20	28.2	+					19.2S 177.7W, H: 23 01 52.5 h 602 km. Mb 5.3 Fiji Islands region.	
HEE: iP		23	20	33.2	+						
i		23	20	38.3	-						
13. DBN: eS		06	18	30		-	-	-	-	35.0N 23.3E, H: 06 09 46.5 h 29 km. Mb 5.1, Ms 4.4 Crete.	
eL		06	21.7								
F		06	37								
WIT: iP		06	14	35.0							
e		06	14	47.5							
HEE: eP		06	14	23.0	+						
13. DBN: eL		09	50.0			73.0N 5.4E, H: 09 40 36.0 h 33 km. Mb 4.9 Greenland Sea.					
F		09	59								
HEE: e(P)		09	45	35.5							
14. DBN: eL		04	54			29.3N 129.1E, H: 04 06 32.6 h 60 km. Mb 4.8 Ryukyu Islands.					
F		05	15								
14. WIT: eP		17	23	18.0		37.1N 141.5E, H: 17 10 59.4 h 45 km. Mb 5.1 Near east coast of Honshu, Japan.					
15. DBN: eL		08	20			33.2N 47.9E, H: 08 03 23.0 h 49 km. Mb 5.4 Western Iran.					
F		08	36								
HEE: eP		08	10	15.0	+						
15. DBN: iP		14	04	24	-	6	1.7			39.4N 117.7E, H: 13 53 00.6 h 15 km. Mb 6.0, Ms 6.3 Northeastern China.	
iPP		14	07	03							
iPPP		14	08	47							
iS		14	13	44							
iPS		14	14	12							
iPPS		14	14	28							
eSS		14	18	18							
eSSS		14	21.5								
eL		14	23								
F		17.0									
WIT: iP		14	04	16.6	-						
e		14	04	23.0	+						
HEE: iP		14	04	27.7	-						
i		14	04	42.3							
eL		14	29								

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		
NOV. 1976											
15.	WIT: iPKP HEE: ePKP	15	42	26.0	+						17.4S 179.2W, H: 15 23 53.4 h 571 km. Mb 4.7 Fiji Islands region.
16.	WIT: ePKP HEE: ePKP e	15	53	35.0	+						17.6S 179.0W, H: 15 35 00.2 h 555 km. Mb 5.2 Fiji Islands region.
16.	DBN: eSS eL F	18	56	12		20			2.1	5.7	41.6S 80.2E, H: 18 20 50.2 h 33 km. Mb 5.3, Ms 6.2 Mid-Indian Rise.
17.	HEE: e(P)	05	45	13.0							51.0N 156.2E, H: 05 33 34.6 h 112 km. Mb 5.5 Kamchatka.
17.	DBN: eL F	06	28			16			3.9	5.5	40.8N 89.6E, H: (06 00 17.6) Probably atmospheric nuclear explosion (Lop Nor). Southern Sinkaing Prov., China.
17.	WIT: eP HEE: eP e	17	31	34.0	+						36.5N 71.2E, H: 17 23 23.6 h 233 km. Mb 5.4 Afghanistan-USSR border region.
18.	WIT: ePKP i HEE: ePKP e	02	15	27.5							19.1S 173.6W, H: 01 55 46.7 h 38 km. Mb 5.1 Tonga Islands.
18.	DBN: ePKP iPP iPKS eSKKS eSS eL F WIT: ePKP e ePP HEE: ePKP ePP	03	43	12		21			7.4	6.4	8.8S 156.9E, H: 03 24 00.2 h 33 km. Mb 6.1, Ms 6.5 Solomon Islands.
18.	DBN: iSS eL F HEE: ePP	06	19	48		20			7.1	6.3	4.2S 135.1E, H: 05 43 41.3 h 33 km. Mb 5.8, Ms 6.3 West Irian.
18.	DBN: eL F	07	53								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		
NOV. 1976	18. DBN: eL	12	20.9								36.9N 24.6E, H: 12 09 22.8 h 65 km. Mb 4.3 Southern Greece.
	F	12	25								
19.	WIT: ePKP	23	48	58.5	-						20.6S 178.5W, H: 23 30 16.3 h 569 km. Mb 4.9 Fiji Islands region.
	HEE: iPKP	23	49	03.7	+						
	e	23	49	10.5							
20.	DBN: eL	12	13								37.0N 33.2W, H: 11 58 58.6 h 33 km. Mb 4.8, Ms 4.5 Azores Islands region.
	F	12	25								
20.	WIT: ePKP	17	55	09.5	+						22.2S 179.4W, H: 17 36 26.7 h 594 km. Mb 5.0 South of Fiji Islands.
21.	WIT: ePKP	15	11	44.5							18.2S 178.3W, H: 14 53 12.1 h 605 km. Mb 4.7 Fiji Islands region.
	HEE: ePKP	15	11	49.5							
21.	DBN: eP	17	48	28							3.7N 128.1E, H: 17 34 20.9 h 77 km. Mb 5.6 North of Halmahera.
	eSP	18	02	00							
	eL	18	24								
	F	19.0									
	HEE: ePP	17	52	55							
22.	DBN: eL	05	45								38.5S 78.6E, H: 04 46 26.0 h 33 km. Mb 5.5, Ms 6.0 Mid-Indian Rise.
	F	06.3									
22.	WIT: iPKP	18	26	43.8	-						20.4S 178.4W, H: 18 08 03.0 h 579 km. Mb 5.2 Fiji Islands region.
	HEE: iPKP	18	26	48.2	-						
	i	18	26	54.8	+						
22.	HEE: e	21	12	04.5	-						No determination of epicenter.
23.	WIT: iP	05	11	04.5							50.0N 79.0E, H: 05 02 57.4 h 0 km. Mb 5.9 Eastern Kazakh SSR.
	HEE: eP	05	11	14.0	+						
	e	05	11	40.5							
	e	05	12	50							
23.	DBN: eL	11	31								51.2N 159.3E, H: 10 46 36.0 h 33 km. Mb 5.5, Ms 4.9 Off east coast of Kamchatka.
	F	11.9									
	WIT: iP	10	58	10.5	-						
24.	DBN: eL	03	26								No determination of epicenter.
	F	04	10								

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		
NOV. 1976	24. DBN: iP	12	28	24.5	-	10	34.0			7.0	39.1N 44.0E, H: 12 22 18.8 h 36 km. Mb 6.1, Ms 7.3 Eastern Turkey. (Estimated 5000 deaths.)
	iZ	12	28	52	-						
	iPP	12	29	22							
	iS	12	33	24							
	eL	12	35.0			20	300				
	F	in next shock									
	WIT: iP	12	28	18.0	-						
	i	12	28	21.8	-						
	eL	12	38.7								
	HEE: iP	12	28	19.3	-						
24. HEE: iP	12	42	49.0	+						39.2N 44.3E, H: 12 36 45.6 h 33 km. Mb 5.5 Eastern Turkey.	
24. DBN: eL	15.2									No determination of epicenter.	
F	17.0										
24. WIT: e(P)	16	20	55.0								52.0N 161.4E, H: 16 09 18.0 h 33 km. Mb 5.6 Off east coast of Kamchatka.
e	16	21	06.5								
HEE: eP	16	21	06.5								
24. DBN: eL	21	03									39.1N 44.0E, H: 20 46 06.0 h 46 km. Mb 4.8 Eastern Turkey.
F	21	24									
24. HEE: e	21	01	13								37.2N 20.3E, H: 20 57 05.5 h 33 km. Mb 4.3 Ionian Sea.
25. DBN: eL	04	17.6									42.8N 17.2E, H: 04 11 27.4 h 33 km. Mb 4.8 Adriatic Sea.
F	04	21									
25. DBN: eL	07	27									9.7N 84.7W, H: 06 45 22.2 h 45 km. Mb 5.2, Ms 4.7 Costa Rica.
F	07	51									
HEE: eP	06	57	46.0								
25. DBN: eL	10	02									39.0N 44.3E, H: 09 49 26.9 h 34 km. Mb 5.0 Eastern Turkey.
F	10	25									
HEE: eP	09	55	27.0								
25. DBN: iP	14	25	27	-	8	7.6					19.5S 177.7W, H: 14 06 35.4 h 442 km. Mb 6.0 Fiji Islands region.
iZ	14	25	30								
iPKP	14	27	14								
eZ	14	41	17								
F	16.2										
WIT: iP	14	25	25.5	-							
i	14	25	28.2	-							
ePP	14	28	26.0								
HEE: iP	14	25	29.2	-							
i	14	25	33.7	-							
iPP	14	28	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		
NOV. 1976											
28.	DBN: eL F	00	14.0								No determination of epicenter.
28.	DBN: eL F	00	26.8								No determination of epicenter.
28.	WIT: eP HEE: eP i	19	29	32.5							37.3N 20.3E, H: 19 25 17.3 h 24 km. Mb 4.8 Ionian Sea.
30.	DBN: iP iZ iPP iSKS eSP eL F	00	54	20	+	6	3.4				20.5S 68.9W, H: 00 40 57.8 h 82 km. Mb 6.5 Chile-Bolivia border region.
						20	125		140		
	WIT: eP i ePP eP'P'	00	54	25.5							
		00	54	33.7							
		00	58	22.0							
		01	19	18.5							
	HEE: eP i i ePP ePKKP eP'P'	00	54	19.5							
		00	54	22.3							
		00	54	50.3							
		00	58	02.5							
		01	11	14.0							
		01	19	16							
30.	HEE: iPKP	08	15	51.7							19.2S 168.6E, H: 07 56 17.2 h 53 km. Mb 5.0 New Hebrides 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		
DEC. 1976	1. DBN: eL	14	55								9.8N 84.8W, H: 14 15 39.0 h 58 km. Mb 5.3. Costa Rica.
	F	15	22								
	HEE: eP	14	28	01.0							
	2. DBN: eL	02	05			20			3.6	5.8	31.0N 139.5E, H: 01 19 29.2 h 36 km. Mb 5.6. Ms 5.4. South of Honshu, Japan.
	F	02	32								
	HEE: eP	01	32	27.0							
	2. WIT: ePKP	16	31	41.0							21.5S 168.5E, H: 16 11 59.5 h 13 km. Mb 4.9. Loyalty Islands.
	HEE: ePKP	16	31	46.0							
	e	16	31	52.5							
	3. HEE: ePKP2	17	22	04.5							31.6S 178.4W, H: 17 01 18.1 h 33 km. Mb 5.2. Kermadec Islands region.
4. HEE: i	12	46	22.0	-						20.4S 68.5W, H: 12 32 29.6 h 72 km. Mb 5.6. Chile-Bolivia border region.	
4. DBN: eL	22	47								56.8S 147.5E, H: 21 25 12.3 h 33 km. Mb 5.3. West of Macquarie Island.	
F	23.6										
5. WIT: ePKP	17	30	47.0							18.0S 172.4W, H: 17 11 08.6 h 15 km. Mb 5.3. Tonga Islands region.	
HEE: ePKP	17	30	52.5	+							
e	17	31	04.5	-							
6. DBN: eL	00	15								17.4N 120.1E, H: 23 28 55.7 h 42 km. Mb 5.0. Luzon, Philippine Islands.	
F	00	34									
7. WIT: iP	05	05	04.0	+						49.9N 78.9E, H: 04 56 57.4 h 0 km. Mb 5.9. Eastern Kazakh SSR.	
e	05	06	42.5								
HEE: iP	05	05	14.2	+							
7. DBN: eL	12	24								18.9S 176.6W, H: 11 15 41.5 h 46 km. Mb 5.6. Mb 5.9. Fiji Islands region.	
F	13	06									
WIT: iP	11	35	20.5	-							
i	11	35	26.0	+							
HEE: ePKP	11	35	26.0								
7. DBN: eL	13	39								32.0N 114.8W, H: 12 59 56.3 h 8 km. Mb 5.5. Ms 5.7. W. Arizona-Mexico border region.	
F	13	59									

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		
DEC. 1976	8. DBN: eL	20	01							43.2N 147.8E, H: 19 19 36.2 h 33 km. Mb 5.4. Ms 5.1. Kuril Islands.	
	F	20	34								
	WIT: eP	19	31	37.5							
	HEE: eP	19	31	48.0							
	e	19	32	03.0							
	9. DBN: eL	10	22		19	8.5			6.0	44.5N 130.0W, H: 09 50 59.5 h 18 km. Mb 5.3. Ms 5.5. Off coast of Oregon.	
	F	11.7									
	HEE: eP	10	03	00.0							
	9. DBN: eL	22	09.7							No determination of epicenter.	
	F	22	13								
	10. DBN: eL	00	48.9							No determination of epicenter.	
	F	00	53								
	10. DBN: eL	00	54.2							No determination of epicenter.	
	F	11	00								
	10. HEE: ePKP	06	06	16.0	-					15.3S 175.0W, H: 05 47 15.1 h 304 km. Mb 5.0. Tonga Islands.	
	10. DBN: eL	23	55							14.0N 124.8E, H: 23 05 27.2 h 33 km. Mb 5.5. Luzon, Philippine Islands.	
	F	00	34								
	11. DBN: eL	18	49		20	4.6			5.9	7.5N 93.8E, H: 18 08 04.4 h 33 km. Mb 5.6. Ms 5.9. Nicobar Islands region.	
	F	19	44								
	WIT: e (P)	18	20	35.0							
	HEE: eP	18	20	28.5							
	e	18	20	36.5							
	11. DBN: eL	23	47							25.9N 110.3W, H: 23 08 27.7 h 33 km. Mb 5.2. Ms 5.0. Gulf of California.	
	F	00	23								
	HEE: eP	23	21	07.0							
	12. DBN: iS	01	31	04						28.0N 139.6E, H: 01 08 50.1 h 491 km. Mb 5.9. Bonin Islands region.	
	iH	01	33	40							
	isS	01	34	28							
	iSS	01	37	16							
	eL	01	56								
	F	02	39								
	WIT: eP	01	20	55.0	+						
	i	01	20	55.7	-						
	HEE: iP	01	21	03.2	+						
	i	01	21	03.4	-						
	e	01	32	27.0							

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		
DEC. 1976	13. WIT: e	05	26	07.0							45.9N 10.9E, H: 05 24 05.9 h 34 km. Northern Italy.
	i	05	26	13.7	+						
	HEE: eP	05	25	35.5							
	i	05	25	43.2	-						
	i	05	25	58.6	+						
13.	DBN: eP	06	48	25							27.4N 101.1E, H: 06 36 58.3 h 17 km. Mb 5.4. Ms 5.9. Szechwan Province, China.
	eS	06	58	00							
	eSS	07	02.9								
	eL	07	11			18		15.0		6.2	
	F	08	30								
	WIT: iP	06	48	19.0	+						
	HEE: iP	06	48	25.3	+						
13.	DBN: eL	23	55								31.1N 142.4E, H: 23 01 32.1 h 33 km. Mb 5.4. Ms 5.0. South of Honshu, Japan.
	F	00	07								
	HEE: eP	23	14	29.0							
14.	WIT: i	07	14	13.0							No determination of epicenter.
14.	DBN: iP	16	19	26	-	8	6.2				28.3N 130.7E, H: 16 06 44.4 h 41 km. Mb 6.3. Ms 6.2. Ryukyu Islands.
	iPP	16	22	40							
	iS	16	29	55							
	iSP	16	30	52							
	eSS	16	35	44							
	eL	16	48			20			35	6.8	
	F	18.8									
	WIT: iP	16	19	21.0	-						
	i	16	19	27.6							
	i	16	19	34.5	+						
	HEE: eP	16	19	28.5	-						
i	16	19	34.3	+							
14.	DBN: eL	20	20								28.3N 130.6E, H: 19 35 04.4 h 39 km. Mb 5.6. Ms 5.5. Ryukyu Islands.
	F	21.0									
	WIT: eP	19	47	41.0	-						
	HEE: eP	19	47	49.0	+						
15.	DBN: eL	04	26								3.1S 129.0E, H: 03 19 30.1 h 27 km. Mb 5.2. Ms 5.0. Ceram.
	F	04	35								
15.	HEE: eP	04	46	24.5							23.1N 94.6E, H: 04 35 11.4 h 97 km. Mb 5.0. Burma-India border 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		
DEC. 1976											
20.	WIT: ePKP HEE: ePKP	05	35	05.0 10.5	-						18.0S 178.1W, H: 05 16 28.9 h 556 km. Mb 4.7. Fiji Islands region.
20.	DBN: eL F WIT: eP HEE: iP e	10 11	58 21	30.5 15.7 30.0	+						9.3N 83.9W, H: 10 18 56.8 h 66 km. Mb 5.5. Costa Rica.
20.	DBN: eL F	17 18	47 17								49.1N 129.0W, H: 17 12 41.0 h 10 km. Mb 5.1. Vancouver Island region.
20.	DBN: eP iPcP iS eSS eL F WIT: eP e HEE: iP	20 20 20 20 21 00.4	44 44 54 58 02	35 57 00 40		18	53		6.8		48.8N 129.3W, H: 20 33 07.8 h 10 km. Mb 5.9. Ms 6.7. Vancouver Island region.
20.	HEE: eP	21	18	13.0							48.9N 128.7W, H: 21 06 39.1 h 10 km. Mb 5.1. Vancouver Island region.
22.	DBN: eL F WIT: eP HEE: eP	01 02	50 32	02.0 09.5							23.3N 143.7E, H: 01 01 41.0 h 49 km. Mb 5.8. Ms 5.6. Volcano Islands region.
22.	DBN: eL F	03 03	17 33								4.8S 139.8E, H: 02 14 00.4 h 33 km. Mb 4.7. Ms 5.0. West Irian.
23.	DBN: eS eSS eL F WIT: eP HEE: eP	10 10 10 11.0	00 06.0 14	52 02.5		22	4.8		5.8		41.8N 126.0W, H: 09 38 58.4 h 15 km. Mb 5.5. Ms 5.5. Off coast of northern California.
23.	DBN: eL F	12 12	10 24								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		
DEC. 1976											
24.	DBN: eL F	09 10	55 42			20			2.5	5.8	45.6S 74.9W, H: 08 56 15.2 h 33 km. Mb 5.0. Ms 5.6. Near coast of southern Chile.
24.	DBN: eL F	14 14	29 37								No determination of epicenter.
25.	DBN: eL F	22 22	33 44								5.7S 153.9E, H: 21 23 02.8 h 54 km. Mb 5.3. New Ireland region.
26.	HEE: ePKP2	02	47	30.5							30.7S 178.2W, H: 02 26 57.0 h 38 km. Mb 5.5. Kermadec Islands.
26.	DBN: eL F	14 14	23 35								No determination of epicenter.
26.	DBN: eL F HEE: eP	20 21 19	19 16 47	17.0		20			1.8	5.5	40.6S 16.7W, H: 19 33 55.9 h 33 km. Mb 5.8. Ms 5.8. South Atlantic Ridge.
27.	DBN: eL F HEE: eP	08 08 07	03.3 25 58	01.0		20			6.2	4.8	39.1N 20.6E, H: 07 54 13.3 h 32 km. Mb 4.9. Ms 4.9. Greece-Albania border region.
28.	DBN: eL F	03 03	24 53								22.1N 63.5W, H: 02 57 38.2 h 33 km. Mb 5.2. Ms 4.4. North Atlantic Ocean.
28.	DBN: ipP ePP epPP eSKS eS iSP iSPP eH eL F HEE: eP ePP	14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	05 09 09 15 16 18 18 21 38 38 16.0 05 09	50 15 38 52 40 00 23 00 00 11							21.1S 68.6W, H: 13 51 56.9 h 89 km. Mb 5.8. Chile-Bolivia border region.
28.	WIT: eP HEE: eP	18 18	11 12	58.5 + 04.5 +							37.1N 116.0W, H: 18 00 00.1 h 0 km. Mb 5.5. Southern Nevada.

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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		
DEC. 1976	29. DBN: ePPS	15	00	13						36.7N 139.0E, H: 14 36 49.5 h 147 km. Mb 5.4. Honshu, Japan.	
	eL	15	17								
	F	15	44								
	WIT: eP	14	48	53.5	+						
	HEE: eP	14	49	02.0	-						
29.	DBN: eL	19	45							1.9S 120.3E, H: 18 46 19.4 h 38 km. Mb 5.2. Ms 4.6. Sulawesi.	
	F	20	06								
29.	DBN: eL	20	32							41.1N 18.9E, H: 20 23 45.6 h 10 km. Adriatic Sea.	
	F	20	38								
30.	HEE: eP	04	05	11.5						49.8N 78.1E, H: 03 56 57.5 h 0 km. Mb 5.1. Ms 4.2. Eastern Kazakh SSR.	
30.	DBN: eL	19	23							12.3N 144.0E, H: 18 26 30.2 h 31 km. Mb 5.4. Ms 5.2. South of Mariana Islands.	
	F	19	48								
30.	DBN: eL	21	01							12.3N 144.0E, H: 20 01 12.4 h 22 km. Mb 5.3. Ms 5.0. South of Mariana Islands.	
	F	21	17								