International Seismological Centre From the ISC collection scanned by SISMOS

only January copied

All year copied

KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT

SEISMIC RECORDS
AT DE BILT

Volume 44
1956

DE BILT - 1961

PRIJS F 1,75

International Seismological Centre From the ISC collection scanned by SISMOS

K O N I N K L I J K N E D E R L A N D S

M E T E O R O L O G I S C H I N S T I T U U T

Seismic Records at De Bilt

Volume 44

1956

De Bilt 1961

International Seismological Centre From the ISC collection scanned by SISMOS

Publicatienummer K.N.M.I. 108 - 44

P R E F A C E

This seismic Yearbook was composed under the supervision of Dr. J. Veldkamp, director of the Geophysical Section. The records have been reduced by Mr. J. Oldeman, scientific headassistant.

The Director in Chief of
the Royal Netherlands Meteorological Institute,

Ir. C.J. Warners.

De Bilt, December 1960

International Seismological Centre From the ISC collection scanned by SISMOS

I N T R O D U C T I O N

SEISMOLOGICAL STATION DE BILT

The geographic coordinates of the seismological station are 52°6'.1 N and 5°10'.6 E. The instruments are placed at a height of 3 m above mean sea-level on a subsoil consisting of sand (pleistocene).

The instruments are:

a set of seismographs (two horizontal and one vertical) with galvanometric recording according to GALITZIN,
one astatic horizontal seismograph according to WIECHERT, M = 200 kg,
two horizontal pendulums according to BOSCH, M = 25 kg.

THE GALITZIN SEISMOGRAPHS AT DE BILT. Below are given: the period of the galvanometer T1, the reduced pendulum length l, the distance Al 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 μ and of the multiplying factor k for the year 1956.

	NS comp.	EW comp.	Z comp.
Period of galvanometer T1	24.43 sec	24.96 sec	12.0 sec
Reduced length of pendulum l	123 mm	123 mm	406 mm
Distance Al	1380 mm	1380 mm	1380 mm
Period of pendulum T	25 sec	25 sec	12 sec
Damping constant μ	0.0	0.0	0.0
Multiplying factor k	11.0	11.0	175

THE WIECHERT AND BOSCH SEISMOGRAPHS AT DE BILT. The mean values of the natural period of the undamped pendulum T, of the damping ratio ε and of the static magnification V for the year 1956 are:

	T	ε	V
WIECHERT (NS comp.)	5.0 sec	4	170
" (EW comp.)	5.0 sec	4	170
BOSCH (NS comp.)	18.0 sec	4	20
" (EW comp.)	18.0 sec	4	20

SEISMOLOGICAL STATION HEERLEN

The geographic coordinates of the seismological station are: 50°53'.0 N and 5°59'.0 E.

The instrument, a horizontal seismograph, M = 450 kg, is placed at a height of 100 m above mean sea-level on a subsoil consisting of loess.

The mean values of the constants for the year 1956 are:

T	ε	V	V max.	T max.
2	3	400	600	2

SEISMOLOGICAL STATION WITTEVEEN

The geographic coordinates of the seismological station are: 52°48'.8 N and 6°40'.1 E.

The instrument, a GRENET vertical seismograph with galvanometric record, is placed at a height of 2 m above mean sea-level on a subsoil consisting of pleistocene sand.

Recording started in April 1951.

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 sec.

International Seismological Centre From the ISC collection scanned by SISMOS

EXPLANATION OF THE TABLES

The data given in this Yearbook have mostly been obtained from the GALITZIN records. The velocity of the recording paper is 30 mm per minute, allowing a good time-accuracy. Only when the earthquake was extraordinarily severe, so that the GALITZIN records could not be analyzed, the records of the WIECHERT and BOSCH seismographs were used. The velocity of the paper of these seismographs is 10 mm and 15 mm per minute respectively. Whenever the WIECHERT and BOSCH records were used, this has been mentioned in the column "remarks".

In a few cases the data from the seismograph at Heerlen are mentioned. The time is Greenwich mean time.

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

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

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

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

The data given in the column "amplitude" are the maximal amplitudes measured from the medium line. The amplitudes have been calculated by means of the formula:

$$V = \frac{A_1 \; k \; T_b}{\pi l} \cdot \frac{1}{\left\{1+\left(\frac{T_b}{T}\right)^2\right\}^2}$$

In this formula Al is the distance between galvanometer mirror and rcording 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 verical component k = 175 and T = 12.0 sec.

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

The amplitudes have been omitted when the oscillations were very irregular.

The seismological bulletins of the following stations were available: Algeria, Alicante, Almeria, Athens, Azores, BCIS (Bureau Central International de Séismologie), Beograd, Bogota, Brisbane, Budapest, Coimbra, Columbia-University (Palisades N.Y. and Bermuda), Djakarta, Dublin, Firenze, Geophysics Division (New Zealand), Granada, Harvard University, Helsinki, Hermanus, Huancayo, Istanbul, Jena, John Carroll University (Cleveland), JSA (Jesuit Seismological Association), Kew, Kiruna, København, Ksara, La Paz, Lisboa, Manila, Melbourne, Paris, Pasadena, Perth, Poona, Praha, Prato, Quetta, Reykjavik, Riverview N.S.W., Roma, Santiago (Chile), Seismographic Stations of the University of California, Seismological Service of Canada, Stuttgart, Tacubaya, Tananarive, Toledo, Tortosa, Trieste, Uppsala, USCGS (United States Coast and Geodetic Survey), Western Samoa, Weston (Mass.), Wien, Zürich.

THE MICROSEISMIC ACTIVITY

The table on page 1 shows the character of the microseismic activity (see also 1915 p. 101 and 1916 p. 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 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 - ½ mm	0 - 1¼
1	½ - 2 "	1¼ - 5 "
2	2 - 4 "	5 - 10 "
3	>4 "	>10 "

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

CHARACTER OF THE MICROSEISMIC MOVEMENT

Date 1956	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2 3	2 3	2	1	1	1	1	1 2	1	2 1	1	2 3
2	3 1	3	2 3 2	1 0	1	1 2 1	1	2 3 2	1	1	1 2 1	3 2
3	1 2 1	3 2	2 1	0 1	1	1	1	2 1	1 0	1 2	1	2 1
4	1 2	2 1	1 2 1	1	1	1	1	1 0	0 1 0	2 1	1	1
5	2 3	1	1	1	1 2	1	1 2 1	0	0 1 0	1 2 1	1	1 2
6	3	1	1	1 0	2 1	1	1	0	0 1	1	1 2	2
7	3 2	1	1	0 1	1	1	1	0	1	1	2	2 3 2
8	2 1	1	1	1	1	1 0	1 0	0	1	1	2 3	2 3
9	1 3	1 2 1	1 2	1	1 2	0	0	0	1	1	3	3
10	3	1 2	2	1	2	0 1	0 1	0	1	1 2 1	3	3
11	3 2	2 1	2 1	1	2 3	1 0	1	0 1	1	1	3 2	3
12	2	1	1	1	3 2	0 1 0	1	1	1 2 1	1 2	2 1	3
13	2	1	1	1	2	0 1 0	1	1	1 2	2 1	1	3
14	2	1	1	1	2 3 2	0	1 0	1 2 1	2	1	1	3
15	2	1 2 1	1 2 1	1	2	0 1 0	0	1	2 1	1	1	3
16	2 1 2	1	1	1 0	2	0	0	1 2 1	1	1 2	1	3
17	2	1 0 1	1	0 1	2 1	0 1	0	1 2	1	2	1	3
18	2 3 2	1 0 1	1 2	1	1 0	1 0	0	2 3 2	1	2	1	3 2
19	2	1 0 1	2 1	1	0 1 0	0 1 0	0	2 1	1	2	1 2	2
20	2 3	1	1 2	1	0	0 1 0	0	1 0	1	2	2	2
21	3	1	2 1	1	0 1	0 1	0	0	1	2	2	2
22	3 2	1	1 2 1	1 0	1	1	0	0	1	2	2	2
23	2 3 2	1	1 2 1	0	1	1 0	0 1	0 1	1	2	2 1	2 3
24	2 1	1	1	0	1	0 1	1	1	1	2	1 2	3
25	1 2 1	1	1	0 1	1	1 0	1	1	1	2	2 3	3
26	1 2 1	1	1 0	1	1	0 1 0	1	1	1	2 1	3	3
27	1 2	1 2 1	0 1 0	1	1	0	1	1	1 2	1 2	3	3
28	2	1 2 1	0 1	1 0	1	0 1 0	1	1	2 3 2	2 3 2	3 2	3
29	2 3	1 2	1	0	1	0 1	1 3 2	1	2	2 3	2 1	3
30	3		1	0 1	1 0 1	1	2	1 0 1	2	3 2	1 2	3
31	3 2		1		1		2 1	1 0 1		2 1		3

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Jan. 3 (1)	eL	16 14				(1) Disturbed by microseisms. Wi: eP 23h 36m 24s. USCGS: 48½°N 155°E, H. 15h 40m 55s. Kurile Islands.
	F	16 45				
Jan. 3 (2)						(2) Wi: iP 23h 36m 24s. USCGS: 54½°N 163°W, H. 23h 24m 52s. Unimak Island, Alaska.
Jan. 5 (3)	eL	2 54				(3) Disturbed by microseisms. BCIS: 41°S 71½°W, H. 0h 54m 18s. Argentina-South Chile border.
	F	3 15				
Jan. 6 (4)						(4) Wi: iP 5h 48m 22s -. BCIS: 36.0 N 11.0 W, H. 5h 43m 37s. USCGS: 36½°N 11°W, H. 5h 43m 38s. Off coast of Portugal.
Jan. 6 (5)	F	12 25 12 30				(5) Disturbed by microseisms. Wi: eP 12h 19m 57s. BCIS: 40½°N 26°0 E, H. 12h 15m 42s. USCGS: H. 12h 15m 40s. Greece-Turkey border.
Jan. 6 (6)						(6) Wi: eP 14h 57m 29s. BCIS: 41¾°N 30½°E, H. 14h 52m 08s. Black Sea, near north coast of Turkey.
Jan. 6 (7)						(7) Wi: iP 18h 03m 23s. USCGS: 51°N 179½°W, H. 17h 51m 32s. Andreanof Islands, Aleutian Islands.
Jan. 6 (8)						(8) Wi: eP 22h 37m 18s. BCIS and USCGS: 39°N 142°E, H. 22h 22m 03s. Near east coast of Honshu, Japan.
Jan. 7 (9)						(9) Wi: eP 10h 27m 53s. USCGS: 51°N 179½°W, H. 10h 15m 59s. Andreanof Islands, Aleutian Islands.
Jan. 7 (10)	eL	17 09				(10) Disturbed by microseisms. Wi: eP 16h 51m 02s. USCGS: 65½°N 133½°W, 16h 41m 04s. Yukon.
	F	17 25				
Jan. 8 (11)	eP	07 24.0				(11) Disturbed by microseisms. USCGS: 17°N 99½°W, H. 7h 11m 16s. Tacubaya: 16°47'N 99°53'W, H. 7h 11m 26s. Guerrero, Mexico.
	ePP	07 27.6				
	eS	07 34.8				
	eL	07 52				
	F	09 00				
Jan. 8 (12)	iP	21 07 46				(12) Disturbed by microseisms. Wi: eP 21h 07m 51s; e 21h 08m 08s. BCIS: 19°0 S 70°2 W, H. 20h 54m 16s. USCGS: 19°S 70°W, H. 20h 54m 13s. Northern Chile.
	ez	21 11 18				
	eS	21 19 00				
	ePS	21 20 42				
	eL	21 34				
	F	24.0				
Jan. 9 (13)	iPKP	12 24 34				(13) Wi: iPKP 12h 24m 35s; i 12h 24m 38s; e 12h 26m 05s; ipPKP 12h 27m 05s. USCGS: 23°S 179°E, H. 12h 05m 23s, h = about 650 km. Fiji Islands region.
Jan. 10 (14)	ePKP	09 13.0				(14) Disturbed by microseisms. Wi: ePKP 9h 13m 01s. USCGS: 25°S 176°W, H. 8h 52m 36s. Tonga Islands region.
	ePKS	09 16.5				
	eSS	09 36 10				
	eL	09 55				
	F	12.0				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Jan. 11 (15)	eL	06 50				(15) Disturbed by microseisms. Wi: eP 6h 22.6m. BCIS: 8°N 94¼°E, H. 6h 10m 06s. USCGS: 7½°N 94°E, H. 6h 10m 03s. Nicobar Islands.
	F	07 40				
Jan. 12 (16)	iPn	05 48 40				(16) Disturbed by microseisms. Wi: iPn 5h 48m 33s; iPg 5h 49m 31s; e 5h 51m 04s; eSg 5h 51m 31s. BCIS: 47°4 N 19°.1 E, H. 5h 46m 08s. USCGS: 47½°N 20°E, H. 5h 46m 05s. Northern Hungary.
	iS	05 50 54				
	eL	05 51 20				
	F	06 10				
Jan. 13 (17)	eP	03 39.0				(17) Disturbed by microseisms. Wi: iP 3h 38m 50s; i 3h 38m 54s. USCGS: 57½°N 163°E, H. 3h 27m 13s. Near east coast of Kamchatka.
	eS	03 49.5				
	eL	04 00				
	F	05 00				
Jan. 14 (18)	eP	14 20.7				(18) Distributed by microseisms. BCIS: 51½°N 173½°W, H. 14h 08m 43s. USCGS: 51½°N 173°W, H. 14h 08m 41s. Fox Islands, Aleutian Islands.
	e(S)	14 30 40				
	eSS	14 36				
	eSSS	14 40				
	eL	14 54				
	F	15 50				
Jan. 16 (19)	iP	23 50 29				(19) Disturbed by microseisms. Wi: eP 23h 50m 35s. USCGS: ½°S 80½°W, H. 23h 37m 37s. Near coast of Equador.
	iz	23 50 35	-			
	iS	00 01 16				
	eSS	00 06.5				
	eSSS	00 10.5				
	eL	00 17				
	F	02 50				
Jan. 18 (20)	eL	08 58				(20) Disturbed by microseisms. USCGS: 24°S 70°W, H. 8h 07m 17s. Northern Chile.
	F	09 30				
Jan. 23 (21)	eL	04 22				(21) Disturbed by microseisms. BCIS: 56¼°N 162°0 E, H. 3h 47m 28s, h = about 60 km. USCGS: 55½°N 162°E, H. 3h 47m 27s, h = about 60 km. Near east coast of Kamchatka.
	F	05 00				
Jan. 27 (22)	eL	15 15				(22) Disturbed by microseisms. USCGS: 26°S 176°W, H. 13h 38m 45s. Tonga Islands region.
	F	16 00				
Jan. 28 (23)	eH	05 10.5				(23) Disturbed by microseisms. USCGS: 1°N 27°W, H. 4h 52m 29s. Mid-Atlantic Ridge.
	eL	05 18				
	F	05 40				
Jan. 28 (24)	eL	08 40				(24) Disturbed by microseisms. USCGS: 4½°S 151½°E, H. 7h 42m 52s, h = about 100 km. New Britain.
	F	09 30				
Jan. 29 (25)	eL	23 07				(25) Disturbed by microseisms. BCIS: 21°0N 121°0 E, H. 22h 20m 56s. USCGS: 21°N 121°E, H. 22h 20m 53s. Off south coast of Formosa.
	F	23 30				
Jan. 30 (26)	eL	10 00				(26) Disturbed by microseisms. BCIS: 37¼°S 177°0 E, H. 8h 43m 05s. USCGS: 38½°S 177½°E, H. 8h 43m 01s. Near north coast of North Island, New Zealand.
	F	11 00				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Jan. 31 (27)						(27) Wi: iPKP 9h 35m 27s. BCIS: 3¼°S 152½°E, H. 9h 17m 14s, h = about 400 km. USCGS: 4°S 152°E, H. 9h 17m 11s, h = about 400 km. New Ireland.
Feb. 1 (28)	eL F	02 50 03 00				(28) Disturbed by microseisms. Wi: iPKP 1h 52m 35s. USCGS: 20°S 169°E, H. 1h 32m 55s. Loyalty Islands.
Feb. 1 (29)	eP ePP ePS eL F	13 55 00 13 59 14 14 07 43 14 31 15 00				(29) Disturbed by microseisms. Wi: iPP 13h 59m 09s -. USCGS: 19°N 145½°E, H. 13h 41m 44s, h = about 350 km. Marianas Islands.
Feb. 1 (30)	iP	15 14 11	(+)			(30) Wi: eP 15h 14m 15s; i 15h 14m 17s -. BCIS: 39.2 N 15°45'E, H. 15h 10m 49s, h = about 215 km. USCGS: 39½°N 16°E, H. 15h 10 m 46s, h = about 200 km. Straits of Messina, Italy.
Feb. 5 (31)	eL F	21 30 21 50				(31) USCGS: 3½°N 128°E, H. 20h 35m 55s. Molucca Passage.
Feb. 9 (32)	iP iS eL F	14 45 02 14 55 20 15 10 17 30	-			(32) Disturbed by microseisms. Wi: eP 14h 45m 04s. USCGS: 32°N 116°W, H. 14h 32m 40s. Lower California.
Feb. 10 (33)	eL F	00 47 01 10				(33) Wi: iP 0h 15m 02s. USCGS: 37°N 142°E, H. 00h 02m 40s, h = about 60 km. Off coast of Honshu, Japan.
Feb. 12 (34)	iP ePP eSKS eS ePS eSS eSSS eL F	12 02 18 12 05.9 12 12 54 12 13 12 12 14 04 12 19.2 12 23.5 12 34 13 50	(-)			(34) Wi: eP 12h 02m 16s. USCGS: 19°N 119½°E, H. 11h 49m 20s. Off northwest coast of Luzon, Phillipine Islands.
Feb. 12 (35)	eL F	20 25 20 55				(35) USCGS: aftershock of (34), H. 19h 40m 20s.
Feb. 13 (36)	eL F	04 35 04 50				(36) USCGS: aftershock of (34), H. 3h 44m 45s.
Feb. 13 (37)	eL F	15 05 15 45				(37) USCGS: aftershock of (34), H. 14h 20m 48s.
Feb. 13 (38)	eL F	23 35 23 50				(38) USCGS: aftershock of (34), H. 22h 39m 50s.
Feb. 14 (39)	eL F	09 11 09 30				(39) USCGS: aftershock of (34), H. 8h 21m 03s.
Feb. 14 (40)	eL F	10 01 10 12				(40) USCGS: 37°N 1½°E, H. 9h 53m 26s, Near coast of Algeria.
Feb. 14 (41)	eL F	13 18 13 55				(41) USCGS: aftershock of (34), H. 12h 33m 48s.
Feb. 14 (42)	eS eL F	18 56 20 19 08 20 00				(42) Wi: eP 18h 46m 03s. USCGS: aftershock of (32), H. 18h 33m 32s.

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Feb. 15 (43)	eS eL F	01 43 30 01 55 02 45				(43) Wi: eP 1h 33m 05s. USCGS: aftershock of (32), H. 1h 20m 36s.
Feb. 15 (44)	eL F	16 10 16 30				(44) USCGS: 28°N 53°W, H. 15h 49m 27s. Southern Iran.
Feb. 17 (45)	eS eSS eL F	10 19 33 10 26.4 10 37 11 45				(45) USCGS: 47°S 15°W, H. 15h 49m 27s. South Atlantic Ocean.
Feb. 18 (46)	iP ez iS iPS isS iSS F	07 46 24 07 53 43 07 56 06 07 57 34 07 58 45 08 02 28 10 10	-			(46) Change of papers from 7h 47m till 7h 53m. USCGS: 30°N 137½°E, H. 7h 34m 16s, h = about 450 km. South of Honshu, Japan.
Feb. 19 (47)	iP eS ePS eL F	02 29 11 02 38 37 02 39 30 02 48.5 04 10	+			(47) Wi: eP 2h 29m 16s. USCGS: 52°N 131½°W, H. 2h 18m 00s. Queen Charlotte Islands.
Feb. 19 (48)						(48) Wi: ePKP 6h 00m 17s. USCGS: 23°S 176°W, H. 5h 40m 22s. Tonga Islands.
Feb. 20 (49)	eL F	01 35 01 38				(49) BCIS: 45°0 N 12½°E, H. 1h 29m 29s. Adriatic Sea.
Feb. 20 (50)	eL F	08 42 09 10				(50) Wi: eP 8h 10m 05s. USCGS: 24°N 124°E, H. 7h 57m 38s. Ryukyu Islands.
Feb. 20 (51)	iP iS eL F	20 36 39 20 40 27 20 41.5 22 00	+	3½	10	(51) Wi: iP 20h 36m 15s. BCIS: 39½°N 30½°E, H. 20h 31m 37s. USCGS: 39½°N 30½°E, H. 20h 31m 35s. Turkey.
Feb. 21 (52)						(52) Wi: ePKP 20h 51m 37s; i 20h 51m 42s. USCGS: 22°S 179°W, H. 20h 32m 55s, h = about 650 km. Fiji Islands region.
Feb. 22 (53)	eL F	00 19 00 30				(53) USCGS: 73½°N 8°E, H. 0h 07m 37s. Arctic Ocean, southwest of Spitzbergen.
Feb. 22 (54)	iP ePS eL F	10 11 37 10 23 10 38 11 10	+			(54) USCGS: 5°S 67°E, H. 9h 56m 24s. Chagos Islands region.
Feb. 23 (55)	eS eSSS eL F	01 34 53 01 38 01 40 02 20				(55) Wi: iP 1h 28m 55s -. BCIS: 31½°N 42½°W, H. 1h 21m 05s. USCGS: 31°N 42°W, H. 1h 21m 03s. North Atlantic Ocean.
Feb. 24 (56)	eL F	10 42 11 25				(56) USCGS: 32°N 179½°E, H. 9h 19m 01s. Kermadec Islands region.
Feb. 25 (57)						(57) Wi: iPKP 6h 09m 24s. BCIS: H. 5h 49,7m. Tonga Islands region.
Feb. 27 (58)						(58) Wi: eP 8h 49m 38s. USCGS: 52°N 174°W, H. 8h 37m 58s, h = about 100 km. Andreanof Islands

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Feb. 27 (59)						(59) Wi: iPKP 14h 30m 40s. BCIS: South Pacific.
March 2 (60)						(60) Wi: iP 12h 06m 49s +. USCGS: 63½°N 149½°W, H. 11h 56m 20s. Alaska.
March 2 (61)						(61) Wi: iP 15h 01m 08s -. BCIS and USCGS: 45½°N 149½°E, H. 14h 49m 18s, h = about 100 km. Kurile Islands.
March 5 (62)						(62) Wi: iP 23h 41m 37s -. USCGS: 44½°N 144°E, H. 23h 29m 41s. Off north coast of Hokkaido, Japan.
March 6 (63)						(63) Wi: eP 9h 03m 25s. USCGS: 28°N 52½°E, H. 8h 55m 28s. Southern Iran.
March 6 (64)						(64) Wi: eP 21h 01m 10s. USCGS: aftershock of (63), H. 20h 53m 12s.
March 9 (65)						(65) Wi: eP 15h 41m 05s. USCGS: H. 15h 33m 26s. Southern Iran.
March 9 (66)						(66) Wi: iP 17h 43m 58s. USCGS: 1°N 80°W, H. 17h 31m 07s. Near coast of Ecuador.
March 10 (67)						(67) Wi: ePKP 4h 01m 51s; i 4h 01m 54s. USCGS: 17½°S 173°W, H. 3h 42m 10s. Tonga Islands.
March 10 (68)						(68) Wi: ePKP 19h 53m 05s. USCGS: 22½°S 176°W, H. 19h 33m 40s, h = about 200 km. Tonga Islands.
March 13 (69)	eP	13 25.6				(69) Wi: eP 13h 25m 50s; ePP 13h 29m 07s. USCGS: 7°N 82°W, H. 13h 13m 10s. Off south coast of Panama.
	eS	13 36.1				
	eSS	13 40				
	eL	13 50				
	F	15 00				
March 16 (70)	e	19 50.0				(70) Wi: iP 19h 49m 23s. BCIS: 33°3N 35°7E, H. 19h 43m 24s. USCGS: 34°N 36°E, H. 19h 43m 28s. Lebanon.
	F	20 15				
March 19 (71)	eL	18 38				(71) Disturbed by microseisms. Wi: ePKP 17h 55m 01s. USCGS: 6°S 150°E, H. 17h 35m 57s. New Britain.
	F	19 10				
March 20 (72)						(72) Wi: iPKP 17h 31m 05s. USCGS: 19°S 178½°W, H. 17h 12m 15s, h = about 500 km. Fiji Islands.
March 21 (73)	eL	05 10				(73) USCGS: 41°N 48½°E, H. 4h 54m 46s. Azerbayan, SSR.
	F	05 25				
March 22 (74)	iP	06 46 46	-			(74) Wi: iP 6h 46m 51s; ipP 6h 47m 15s -. USCGS: 3½°S 79°W, H. 6h 33m 55s, h = about 100 km. Ecuador.
	ipP	06 47 10	+			
	iPPP	06 50 46				
	eS	06 57 20				
	iPPS	06 59 20				
	eL	07 16				
	F	07 30				
March 23 (75)	eL	06 15				(75) USCGS: 5°S 107°E, H. 5h 10m 48s. New Britain.
	F	06 38				

Seismic Reports at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
March 25 (76)	iP	23 39 10	(+)			(76) Wi: 23h 39m 06s +. BCIS: 52°N 159°E, H. 23h 27m 32s. USCGS: 52°N 159°E, H. 23h 27m 31s. Near southeast coast of Kamchatka.
	eS	23 48.8				
	eL	00 07				
	F	00 45				
March 26 (77)						(77) Wi: eP 3h 32m 19s. USCGS: aftershock of (76), H. 30h 20m 45s.
March 26 (78)						(78) Wi: eP 3h 36m 09s. USCGS: aftershock of (76), H. 3h 24m 35s.
March 26 (79)	e	04 30				(79) Wi: eP 4h 11m 00s; e 4h 11m 12s. USCGS: aftershock of (76), H. 3h 59m 25s.
	eL	04 39				
	F	05 20				
March 26 (80)	eH	23 00 30				(80) Wi: e 22h 55m 00s. BCIS: 39°2 N 21°9 E, H. 22h 51m 00s. Thessaly, Greece.
	F	23 05				
March 30 (81)						(81) Wi: iP 12h 27m 09s. BCIS: H. 12h 15m 36s. Near southeast coast of Kamchatka.
March 30 (82)						(82) Wi: eP 18h 55m 59s. BCIS and USCGS: 40°N 144°E, H. 18h 43m 45s. Off coast of northern Honshu, Japan.
March 30 (83)						(83) Wi: iPKP 22h 35m 24s (-). USCGS: 22°S 176°W, H. 22h 15m 31s. Tonga Islands region.
March 31 (84)	eL	02 04				(84) USCGS: 20°N 64°W, H. 1h 34m 00s. Northeast of Puerto Rico.
	F	02 30				
March 31 (85)						(85) Wi: e 14h 11.5m; F 14h 13.5m. BCIS: 47°0 N 17°0 E, H. 14h 06m 54s. Hungary.
April 1 (86)	eL	12 14				(86) BCIS: H. 10h 54.0m. South Pacific, about 3000 km off southwest coast of Chile.
	F	13 00				
April 1 (87)	eL	19 55				(87) BCIS: H. 19h 13.1m. South Atlantic Ocean, 1000 km southwest of St. Helena Island.
	F	20 02				
April 2 (88)	iP	11 02 58	-			(88) Wi: iP 11h 03m 01s. USCGS: 2°N 97°E, H. 10h 49m 56s. Off west coast of Sumatra.
	ePP	11 06 23				
	eS	11 13 42				
	eSS	11 19.8				
	eL	11 39				
	F	13 00				
April 2 (89)						(89) Wi: iP 11h 15m 01s. USCGS: H. 11h 04m 22s, h = about 100 km. Southern Tibet.
April 5 (90)						(90) Wi: iP 4h 13m 26s +. USCGS: 53°N 158°E, H. 4h 02m 00s. Near east coast of Kamchatka.
April 6 (91)	iP	07 19 56	+			(91) F during change of papers, after 7h 50m. Wi: iP 7h 19m 48s +. BCIS: 36°5 N 70°5 E, H. 7h 11m 40s, h = about 220 km. USCGS: 36½°N 71°E, H. 7h 11m 34s, h = about 200 km. Hindu Kush.
	ipP	07 20 45				
	iPP	07 21 53				
	iS	07 26 28				
	isS	07 27 55				
	eScS	02 29 25				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
April 7	ePP	18 25 40				(92) USCGS: 32°S 180°, H. 18h 00m 57s, h = about 350 km. Kermadec Islands.
(92)	ez	18 29 25				
	ez	18 33 08				
	eSS	18 49				
	eL	19 24				
	F	20 30				
April 8	ez	13 55 10				
(93)	F	13 56				
April 10	iS	13 39 46				(94) Disturbed by visitors. Wi: eP 13h 29m 20s; epP 13h 29m 50s. BCIS: 3°S 102°E, H. 13h 16m 08s, h = about 125 km. USCGS: H. 13h 16m 04s, h = about 150 km. Near south coast of Sumatra.
(94)	iPPS	13 41 46				
	F	14 50				
April 12	eL	05 55				(95) USCGS: 26°S 70°W, H. 5h 05m 05s. Northern Chile.
(95)	F	06 20				
April 12	eL	22 55				(96) Wi: eP 22h 41m 38s. BCIS: 37½°N 50½°E, H. 22h 34m 48s. USCGS: 37°N 50°E, H. 22h 34m 44s. Northern Iran.
(96)	F	23 15				
April 13	e	07 15				(97) Wi: i 7h 10m 51s; i 7h 11m 11s; 7h 11m 16s. BCIS: H, 7h 05.9m. About 100 km south of Crete.
(97)	F	07 25				
April 16	e	14 20				
(98)	F	14 38				
April 18	eP	11 11.8				(99) BCIS: 52°0 N 178°0 W, H. 11h 00m 18s. USCGS: 52°N 178°W, H. 11h 00m 13s. Andreanof Islands, Aleutian Islands.
(99)	eS	11 21.9				
	ePS	11 22 40				
	eL	11 36				
	F	12 40				
April 19	e	18 47.5				(100) BCIS: 37°2 N 3°7 W, H. 18h 38m 53s. Sierra Elvira, Spain.
(100)	F	18 52				
April 21	e	02 13				(101) USCGS: H. 1h 25m 12s. About 100 miles south of Formosa.
(101)	F	02 22				
April 22	eSS	05 19				(102) Wi: iPKP 4h 59m 56s. BCIS: 5½°S 151°E, H. 4h 40m 56s. USCGS: 6°S 151½°E, H. 4h 40m 53s. New Britain.
(102)	eL	05 40				
	F	06 30				
April 22	iP	17 33 31	+			+ (103) Wi: iP 17h 33m 24s +; i 17h 33m 36s. BCIS: 54°N 161°W, H. 17h 21m 55s. USCGS: 54°N 162W, H. 17h 21m 53s. South of Alaska Peninsula.
(103)	iz	17 33 45				
	eS	17 43 07				
	eL	17 59				
	F	19 30				
April 23	iP	03 43 46	+			(104) Wi: iP 3h 43m 39s +. USCGS: 42½°N 144½°E, H. 3h 31m 40s. Off east coast of Hokkaido, Japan.
(104)	eS	03 53 45				
	ePS	03 54 14				
	eL	04 09				
	F	05 30				
April 23	ePP	08 45.9				(105) BCIS: about 47°S 11°W, H. 8h 28.0m. South Atlantic Ocean.
(105)	eL	09 20				
	F	10 00				
April 23	eL	22 00				(106) BCIS: Probably: South Atlantic Ocean.
(106)	F	22 15				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
April 25	e	08 11				(107) BCIS: 39°2 N 22°2 E, H. 8h 01m 00s. Thessaly, Greece.
(107)	F	08 17				
April 25	ePKP	08 49 43				(108) USCGS: 17°S 175°E, H. 8h 29m 58s. Fiji Islands.
(108)	ez	08 53 39				
	eSS	09 11				
	eL	09 40				
	F	10 40				
April 26	e	03 05				(109) USCGS: 44°09'N 11°18'7 E, H. 3h 00m 03s. Northern Italy.
(109)	F	03 08				
April 26	eL	08 50				(110) USCGS: 16½°S 174°E, H. 7h 41m 52s. Fiji Islands.
(110)	F	09 20				
April 26	eL	12 25				(111) Wi: iP 11h 50m 53s; i 11h 51m 07s. USCGS: 37°N 140°E, H. 11h 38m 42s, h = about 100 km. Central Honshu, Japan.
(111)	F	12 40				
April 26	eL	15 35				(112) USCGS: 51°N 143°E, H. 14h 52m 19s. Northern Sakhalin Island.
(112)	F	15 45				
April 26						(113) Wi: iP 17h 10m 51s -. USCGS: H. 16h 59m 05s. Northern Kurile Islands.
(113)						
April 28	eL	07 40				(114) BCIS: 13½°N 145°E, H. 6h 35m 36s, h = about 60 km. Marianas Islands.
(114)	F	07 50				
May 1						(115) Wi: ePKP 13h 17m 17s. USCGS: 12h 57m 48s. Tonga Islands.
(115)						
May 4						(116) Wi: ePKP 14h 34m 05s. USCGS: 19°S 175°W, H. 14h 14m 20s. Tonga Islands.
(116)						
May 5	eL	04 35				(117) Wi: ePKP 3h 41m 55s. USCGS: 15½°S 173°W, H. 3h 22m 27s, h = about 100 km. Samoa Islands region.
(117)	F	04 55				
May 5						(118) Wi: e(P) 20h 46m 49s. BCIS: 37°N 28½°E, H. 20h 41m 57s. Gulf of Kos, Turkey.
(118)						
May 6	eL	21 35				(119) Wi: iP 21h 08m 51s; i 21h 08m 54s. USCGS: 54½°N 162½°W, H. 20h 57m 16s. Unimak Island region, Alaska.
(119)	F	22 10				
May 6						(120) Wi: iP 22h 14m 25s. USCGS: 45½°N 150½°E, H. 22h 02m 27s. Kurile Islands.
(120)						
May 7	eL	11 50				(121) USCGS: 46½°S 96°E, H. 10h 58m 12s. South Indian Ocean.
(121)	F	13 30				
May 8						(122) Wi: iPKP 7h 33m 42s +. USCGS: H. 7h 14.1m. Fiji Islands region.
(122)						
May 8						(123) Wi: iPKP 13h 06m 21s. USCGS: H. 12h 47m 18s, h = about 400 km. Fiji Islands region.
(123)						
May 8						(124) Wi: eP 20h 57m 57s. BCIS: 28°0 N 52°8 E, H. 20h 50m 04s. Iran.
(124)						

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
May 13 (125)	eSS	08 12.0				(125) Disturbed by microseisms. Wi: eP 7h 59m 38s. USCGS: 30°N 70°E, H. 7h 50m 33s. Central Pakistan.
	eL	08 18				
	F	08 45				
May 15 (126)	eP	18 38.5				(126) Disturbed by microseisms. Wi: eP 18h 38m 31s. BCIS: 37.7 N 20.9 E, H. 18h 34m 14s. USCGS: 37½°N 21°E, H. 18h 34m 15s. Near west coast of Greece.
	eS	18 42				
	eL	18 44.5				
	F	18 55				
May 15 (127)	iP	23 01 13				(127) Disturbed by microseisms. BCIS: 38.0 N 20.8 E, H. 22h 56m 56s. USCGS: 38°N 22°E, H. 22h 56m 55s. Southern Greece.
	eS	23 04 47				
	eL	23 07.0				
	F	23 20				
May 17 (128)						(128) Wi: eP 6h 13m 40s. USCGS: 16½°S 72°W, H. 5h 59m 57s, h = about 60 km. Near coast of Southern Peru.
May 18 (129)						(129) Wi: iPKP 8h 38m 10s. USCGS: 17°S 179°W, H. 8h 19m 35s, h = about 600 km. Fiji Islands.
May 18 (130)	ez	22 12 40				(130) BCIS: 39½°N 23½°E, H. 22h 08m 30s. USCGS: H. 22h 08m 25s. Near east coast of Greece.
	eL	22 17.5				
	F	22 35				
May 19 (131)	eL	01 27				(131) F in next shock. USCGS: 11½°S 166½°E, H. 0h 21m 13s. Santa Cruz Island.
May 19 (132)	ePKP	01 49 50				(132) Wi: iPKP 1h 49m 47s; i 1h 49m 59s. USCGS: 7°S 156°E, H. 1h 30m 36s. Solomon Islands.
	ePP	01 51 50				
	eL	02 30				
	F	03 45				
May 19 (133)	ePP	20 20.5				(133) BCIS: 41°S 42°E, H. 20h 02m 13s. USCGS: 40°S 43°E, H. 20h 02m 15s. Indian Ocean.
	eSKS	20 27.0				
	eL	20 50				
	F	23 30				
May 22 (134)	ePKP	03 20 38				(134) Wi: ePKP 3h 20m 45s. USCGS: 15½° 173°W, H. 3h 01m 03s. Samoa Islands.
	ePP	03 24.0				
	eN	03 34 14				
	eSS	03 42.5				
	eL	04 10				
	F	05 30				
May 22 (135)	ePP	13 55 53				(135) Wi: iPKP 13h 54m 15s, ePP 15h 56m 05s. USCGS: 4°S 152½°E, H. 13h 36m 12s, h = about 550 km. New Ireland.
	ez	13 56 10				
	eN	14 02 10				
	eL	14 36				
May 23 (136)	eL	06 47				(136) Alger: 36.4 N 7.3 E, H. 6h 37.9m. Algeria.
	F	06 52				
May 23 (137)						(137) Wi: iPKP 17h 00m 42s. USCGS: H. 16h 41m 15s. Fiji Islands.
May 23 (138)	iPKP	21 07 13		6	25	(138) Wi: iPKP 21h 07m 11s +; iPP 21h 10m 16s. BCIS: 15½°S 178½°W, H. 20h 48m 28s, h = about 400 km. USCGS: 15½°S 179°W, H. 20h 48m 30s, h = about 450 km. Fiji Islands.
	ipPKP	21 08 55				
	iPP	21 10 18				
	ipPP	21 11 50				
	F	00 30				
May 25 (139)						(139) Wi: iP 1h 03m 34.5s -. USCGS: 1°N 97½°E, H. 0h 50m 33s. Near coast of Sumatra.

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
May 26 (140)	e	18 45.0				(140) Wi: e 18h 45.5m. BCIS: 43.9 N 11.3 E, H. 18h 39m 59s. Etruscan Apennines.
	F	18 55				
May 26 (141)	ePKP	20 39 52				(141) Wi: iPKP 20h 39m 57s; i 20h 42m 42s. USCGS: 19°S 178½°W, H. 20h 21m 14s, h = about 550 km. Fiji Islands.
	epPKP	20 42 19				
	esPKP	20 43 34				
	e	20 54 20				
	eSS	21 01 40				
	F	22 20				
May 28 (142)	ePP	13 42 10				(142) USCGS: 1°N 121½°E, H. 13h 23m 17s, h = about 100 km. Northern Celebes.
	eL	14 20				
	F	14 30				
May 30 (143)						(143) Wi: ePKP 16h 01m 08s; e 16h 01m 12s. USCGS: 23°S 178½°W, H. 15h 41m 57s, h = about 350 km. Tonga Islands region.
May 31 (144)						(144) Wi: iPKP 21h 20m 23s. USCGS: H. 21h 00m 50s, h = about 60 km. Fiji Islands.
June 1 (145)	eL	10 55				(145) BCIS: 63.9 N 22.1 W, H. 10h 46m 17s. USCGS: 64°N 22°W, H. 10h 46m 20s. Iceland.
	F	11 10				
June 1 (146)	eL	23 00				
	F	23 05				
June 3 (147)	(eP	05 27 34)				(147) Wi: eP 5h 27 m 33s. BCIS: 80°N 118°W, H. 5h 19m 22s. USCGS: 79½°N 118½°W, 5h 19m 23s. Arctic Ocean.
	eS	05 34 12				
	eL	05 46				
	F	06 05				
June 3 (148)	eL	20 25				(148) USCGS: 31°S 178½°W, H. 18h 52m 20s. Kermadec Islands.
	F	20 37				
June 4 (149)	eP	07 21.2				(149) Wi: eP 7h 21m 09s; i 7h 21m 18s. BCIS: 52½°N 170½°W, H. 7h 09m 20s. USCGS: 52°N 170½°W, H. 7h 09m 18s. Fox Islands, Aleutian Islands.
	eS	07 31.1				
	eL	07 48				
	F	09 00				
June 4 (150)	eL	13 05				(150) Disturbed by microseisms. BCIS: 32½°S 178°W, H. 12h 05m 53s. USCGS: 31°S 178°W, H. 12h 05m 55s. Kermadec Islands.
	F	14 25				
June 5 (151)	eL	07 10				(151) USCGS: 51°S 112½°W, H. 5h 59m 41s. Pacific Ocean.
	F	08 00				
June 8 (152)	eP	04 15.9				(152) Wi: eP 4h 15m 52s. USCGS: foreshock of (155), H. 4h 07m 26s.
	ePP	04 17 50				
	eL	04 31				
	F	04 55				
June 8 (153)	eL	14 45				(153) USCGS: 30°S 70°W, H. 13h 53m 09s, h = about 150 km. Argentina-Chile border.
	F	15 10				
June 9 (154)	eP	10 22 42				(154) USCGS: 30½°S 70½°W, H. 10h 08m 32s, h = about 150 km. Central Chile.
	ePP	10 26.3				
	ez	10 26 56				
	eSKS	10 33.2				
	ePS	10 36 16				
	eSS	10 42 24				
	eL	10 50				
	F	13 30				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
June 9	iP	23 22 23	+	6	40	(155) Wi: iP 23h 22m 16s. BCIS: 35°.3 N 67°.5 E, H. 23h 13m 52s. USCGS: 35½°N 67½°E, H. 23h 13m 51s. Afghanistan.
(155)	iPeP	23 23 48				
	iPP	23 24 08				
	eS	23 29 17				
	eL	23 35				
	F	05 00				
June 10	eL	14 15				(156) BCIS: 47°.1 N 14°.6 E, H. 13h 48m 42s. Styria, Austria.
(156)	F	14 30				
June 11	eL	01 25				(157) BCIS: 34°.5 N 26°.5 E, H. 1h 11m 25s. USCGS: H. 1h 11m 24s. Near south coast of Crete.
(157)	F	01 35				
June 11	eL	03 22				(158) USCGS: aftershock of (155), H. 2h 57m 15s.
(158)	F	03 35				
June 11	iP	08 27 07				(159) Wi: eP 8h 27.3m; i 8h 27m 25s. BCIS: 52¼°N 31½°W, H. 8h 22m 06s. USCGS: 52°N 31½°W, H. 8h 22m 09s. North Atlantic Ocean.
(159)	eS	08 31 19				
	eL	08 32				
	F	09 00				
June 11	eL	23 21				(160) BCIS: 51½°N 88½°E, H. 22h 54m 48s, USCGS: 50½°N 89°E, H. 22h 54m 48s. Southern Siberia.
(160)	F	23 30				
June 12	eL	03 47				(161) BCIS: 24¾°N 91¼°E, H. 3h 12m 25s. USCGS: H. 3h 12m 28s. Assam.
(161)	F	04 00				
June 12	eL	09 50				(162) USCGS: 9°S 110°W, H. 8h 54m 02s. Eastern Pacific Ocean.
(162)	F	10 20				
June 14 (163)						(163) Wi: iP 12h 24m 19s. BCIS: 45°N 150¼°E, H. 12h 12m 20s. USCGS: 45°N 145½°E, H. 12h 12m 19s. Kurile Islands.
June 15	ePKP	15 55.3				(164) Wi: ePKP 15h 55m 27s. BCIS: 25°S 178°W, H. 15h 35m 55s, h = about 200 km. USCGS: H. 15h 35m 47s, h = about 200 km. About 300 miles south of Tonga Islands.
(164)	eL	17 00				
	F	17 25				
June 16	eP	06 32 10				(165) Wi: eP 6h 32m 05s; e 6h 32m 16s. USCGS: 28½°N 131½°E, H. 6h 19m 22s. Ryukyu Islands.
(165)	ePP	06 35 36				
	eS	06 43 40				
	eL	07 03				
	F	08 00				
June 16 (166)						(166) Wi: ePKP 19h 55.9m. BCIS: 26°S 176½°W, H. 19h 36m 02s. USCGS: H. 19h 36m 01s. 300 miles south of Tonga Islands.
June 19	eL	01 15				(167) BCIS: about 5°S 103°E, H. 0h 19.0m. USCGS: H. 0h 19m 08s. South of Sumatra.
(167)	F	01 45				
June 20	eL	16 50.4				(168) BCIS: 18°S 174°W, H. 16h 29m 44s. USCGS: H. 16h 29m 42s. Tonga Islands.
(168)	F	16 52				
June 20	eL	22 42				(169) BCIS: H. 22h 31.2m. North Atlantic Ocean.
(169)	F	22 53				
June 22	e	01 00				(170) BCIS: about 38½°N 33½°E. Central Anatolia.
(170)	F	01 05				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
June 23	iP	02 29 21	+			(171) Wi: i 2h 29m (21s) +. BCIS: 56¼°N 163½°E, H. 2h 18m 03s. USCGS: 56½°N 163½°E, H. 2h 18m 02s. Near east coast of Kamchatka.
(171)	ePP	02 32.0				
	iS	02 38 42				
	ePS	02 39 12				
	eL	02 49				
	F	05 30				
June 23	eL	00 35				(172) Wi: ePKP 23h 38m 46s. USCGS: 21°S 174°E, H. 23h 18m 57s. Loyalty Islands region.
(172)	F	01 00				
June 24	eL	13 40				(173) BCIS: 40°S 36°E, H. 12h 55.0m. H. 12h 55m 02s. Indian Ocean, about 400 miles north of Prince Edward Island.
(173)	F	14 30				
June 24	eL	22 00				(174) BCIS: 7°S 155°E, H. 20h 58m 42s. USCGS: 20h 58m 36s. Solomon Islands.
(174)	F	23 05				
June 26	eL	01 58				(175) Wi: eP 1h 54m 16s. BCIS: H. 1h 50m 08s. Alger: 36°.0 N 8°.1 E, H. 1h 50.2m. Algeria-Tunesia border.
(175)	F	02 05				
June 26	eL	06 37				(176) BCIS: 39°.5 N 22°.2 E, H. 6h 27m 40s. Thessaly, Greece.
(176)	F	06 45				
June 27	eL	19 43				(177) BCIS: 23½°N 120½°E, H. 18h 57m 33s. USCGS: 23°N 121°E, H. 18h 57m 33s. Southern Formosa.
(177)	F	20 05				
June 28	eL	17 49.4				(178) BCIS: 44°.1 N 18°.6 E, H. 17h 42m 31s. Yugoslavia.
(178)	F	18 00				
June 28	eP	23 10 19				(179) USCGS: 48¾°N 129¼°W, H. 22h 58m 50s. Off coast of Vancouver Island, British Columbia.
(179)	eS	23 19 45				
	eL	23 35				
	F	02 30				
June 29	eL	03 05				(180) USCGS: 26°N 122°E, H. 2h 22m 00s. USCGS: 24°N 122½°E, H. 2h 21m 52s. Off coast of Formosa.
(180)	F	04 00				
June 29	eL	18 33				(181) USCGS: 14°N 121°E, H. 17h 43m 26s. Near southwest coast of Luzon, Philippine Islands.
(181)	F	18 55				
June 30	eP	01 54 (42)				(182) Wi: eP 1h 54m 26s. BCIS: 43½°N 29°E, H. 1h 50m 26s, USCGS: 44°N 29°E, H. 1h 50m 20s. Black Sea, near coast of Romania.
(182)	eS	01 58.0				
	eL	02 00				
	F	02 20				
July 3	iP	23 34 35	+			(183) Wi: iP 23h 34m 28s. BCIS: 36°.5 N 70°.5 E, H. 23h 26m 19s, h = about 220 km. USCGS: 36½°N 71°E, H. 23h 26m 17s, h = about 250 km. Hindu Kush.
(183)	ipP	23 35 48				
	eS	23 41.2				
	esS	23 42.5				
	F	00 05				
July 4 (184)	iPKP	00 58 46				(184) Wi: iPKP 0h 58m 46s. USCGS: 18°S 178½°W, H. 0h 39m 55s, h = about 450 km. Fiji Islands region.
July 4	eL	04 09				(185) Wi: ePKP 3h 23m 23s. USCGS: 7°S 155½°E, H. 3h 04m 14s. Solomon Islands.
(185)	F	05 00				
July 4 (186)						(186) Wi: 4h 01m 58s. USCGS: aftershock of (185), H. 3h 42m 50s.

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
July 6 (187)	eL	03 05				(187) USCGS: 42½°N 126°W, H. 2h 22m 00s. Off coast of Oregon, U.S.A.
	F	03 20				
July 7 (188)	e	10 54				(188) BCIS: 37½°N 56¼°E, H. 10h 30m 34s. Iran.
	F	11 05				
July 8 (189)	e	10 49				(189) BCIS: 42°.3 N 21°.4 E, H. 10h 40.7m. Yugoslavia.
	F	10 54				
July 8 (190)	eS	13 14.7				(190) BCIS: foreshock of (191), H. 13h 05m 22s.
	eL	13 15.5				
	F	13 30				
July 9 (191)	iP	03 16 29	+			(191) Wi: iP 3h 16m 26s +; i 3h 16m 31s -; iS 3h 20m 36s. BCIS: 36°.9 N 26°.0 E, H. 3h 11m 38s. USCGS: 37°N 26°E, H. 3h 11m 39s. Aegean Sea.
	iS	03 02 33				
	eL	03 22 30				
	F	08 30				
July 9 (192)						(192) Wi: eP 4h 38m 10s. BCIS: aftershock of (191), H. 4h 33m 21s. USCGS: H. 4h 33m 22s.
July 9 (193)						(193) Wi: eP 6h 23m 55s. BCIS: aftershock of (191), H. 6h 19m 07s. USCGS: H. 6h 19m 07s.
July 9 (194)						(194) Wi: eP 6h 27m 34s. BCIS: aftershock of (191), H. 6h 22m 49s. USCGS: H. 6h 22m 49s.
July 9 (195)						(195) Wi: i(PKP) 7h 03m 11s. BCIS: Fiji Islands region. Deep focus.
July 9 (196)						(196) Wi: eP 7h 41m 17s. BCIS: aftershock of (191), H. 7h 36m 27s.
July 9 (197)						(197) Wi: eP 9h 49m 55s. BCIS: aftershock of (191), H. 9h 45m 06s.
July 9 (198)	iP	10 07 05	-			(198) Wi: iP 10h 07m 11s -; i 10h 07m 30s +, USCGS: 20°N 73°W, H. 9h 56m 13s, h = about 100 km. Near coast of Haiti.
	iz	10 07 24				
	eS	10 16 00				
	eH	10 16.2				
	eSS	10 20.5				
	eL	10 24				
	F	12 00				
July 9 (199)						(199) Wi: eP 11h 35m 40s. BCIS: aftershock of (191), H. 11h 30m 48s.
July 9 (200)	eS	20 19 17				(200) F in next shock. Wi: eP 20h 15m 15s. BCIS: aftershock of (191), H. 20h 10m 24s. USCGS: H. 20h 10m 25s.
	eL	20 22.5				
July 9 (201)	eS	20 22 49				(201) Wi: eP 20h 18m 34s. BCIS: aftershock of (191), H. 20h 13m 53s. USCGS: H. 20h 13m 56s.
	F	20 40				
July 9 (202)	eS	21 37 35				(202) Wi: 21h 33m 33s. BCIS: aftershock of (191), H. 21h 28m 41s. USCGS: H. 21h 28m 42s.
	eL	21 41				
July 10 (203)	eP	03 06 15				(203) Wi: eP 3h 06m 13s. BCIS: aftershock of (191), H. 3h 01m 25s. USCGS: H. 3h 01m 27s.
	eS	03 10 07				
	ePcP	03 10 30				
	eL	03 13				
	F	03 40				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
July 12 (204)	e	15 43				(204) Wi: iP 15h 12m 38s; epP 15h 13m 01s. USCGS: 23°N 94½°E, H. 15h 01m 26s, h = about 100 km. Central Burma.
	F	15 55				
July 12 (205)	e	18 20				(205) BCIS: 58°S 143°W, H. 16h 55.9m. South Pacific Ocean.
	F	18 55				
July 14 (206)	eS	19 09.9				(206) BCIS: 40¼°N 31°.0 E, H. 19h 01m 04s. Turkey.
	eL	19 13				
	F	19 30				
July 16 (207)	iP	15 18 40				(207) Wi: eP 15h 18m 38s. BCIS: 22½°N 96°E, H. 15h 07m 13s, h = about 100 km. USCGS: 22°N 95½°E, H. 15h 07m 10s, h = about 100 km. Central Burma.
	eS	15 28 04				
	eSS	15 32.8				
	eL	15 45				
	F	18 30				
July 17 (208)	eP	07 48 10				(208) Wi: eP 7h 48m 07s; epP 7h 49m 50s; iPKP 7h 51m 58s; epPP 7h 54m 32s; ePS 8h 01m 44s; iSPP 8h 02 55s. USGCS: 7°S 126½°E, H. 7h 34m 07s, h = about 450 km. Banda Sea.
	epP	07 49 53				
	ePP	07 52 56				
	ipPP	07 54 36				
	eSKS	07 58 04				
	iPPP	07 55 34				
	e(S)	08 00 07				
	iPS	08 01 53				
	eSPP	08 03 04				
	eH	08 09 09				
	eH	08 06.0				
	eSS	08 08.5				
	F	09 30				
July 18 (209)						(209) Wi: ePKP 0h 46m 32s. USCGS: 5°S 151°E, H. 0h 27m 27s. New Britain.
July 18 (210)	eP	06 34 11				(210) Wi: eP 6h 34m 10s; i 6h 34m 15s; ePKP 6h 38 00s; ePP 6h 38m 58s; epPP 6h 39m 41s; e 6h 48m 14s. BCIS: 5°S 130°E, H. 6h 19m 33s. USCGS: H. 6h 19m 15s. Banda Sea.
	ePKP	06 38.0				
	ePP	06 39 00				
	ePPP	06 41 09				
	ePS	06 48 53				
	ePPS	06 49 32				
	F	09 30				
July 19 (211)	eP	20 54 10				(211) Wi: eP 20h 54m 06s. USCGS: 15°N 120½°E, H. 20h 40m 54s. Near west coast of Luzon, Philippine Islands.
	eS	21 04 45				
	eL	21 35				
	F	22 10				
July 19 (212)	eP	23 38 50				(212) Wi: iP 23h 38m 54s. USCGS: 9½°N 84½°W, H. 23h 26m 25s. Near coast of Costa Rica.
	eS	23 49 04				
	eL	00 01				
	F	01 00				
July 21 (213)	eP	00 18 27				(213) Wi: eP 0h 18m 33s. BCIS: ½°N 25½°W, H. 0h 08m 30s. USCGS: 1°N 26°W, H. 0h 08m 31s. Mid-Atlantic Ocean.
	eS	00 26.5				
	eL	00 34.5				
	F	01 10				
July 21 (214)	iP	15 42 13				(214) Wi: iP 15h 42m 08s. BCIS: 23°.3 N 69°.8 E, H. 15h 32m 28s. USCGS: 23°N 70°E, H. 15h 32m 25s.
	ePcP	15 43 09				
	ePP	15 44 21				
	ePPP	15 45 38				
	iS	15 50 08				
	eL	16 09				
	F	17 30				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
July 22	eP	03 33 50				(215) BCIS: aftershock of (191), H. 3h 28m 59s.
(215)	eS	03 38.0				
	eL	03 40.5				
	F	04 00				
July 23	ePP	19 46.7				(216) USCGS: 24°S 112°W, H. 19h 25m 58s. Easter Island region.
(216)	eSS	20 04.0				
	eL	20 18				
	F	22 00				
July 24	eL	19 53				(217) USCGS: 1°N 126½°E, H. 18h 56m 32s. Molucca Passage.
(217)	F	20 20				
July 28	e	00 40				(218) Tacubaya: 14°26'N 94°29'W, H. 23h 53m 31s. Gulf of Tehuantepec, Mexico.
(218)	F	01 00				
July 30	eL	05 50				(219) Disturbed by microseisms. BCIS: aftershock of (191), H. 5h 41m 00s. USCGS: H. 5h 41m 01s.
(219)	F	06 05				
July 30	e	09 20				(220) BCIS: aftershock of (191), H. 9h 14m 57s. USCGS: H. 9h 15m 00s.
(220)	F	10 00				
July 30	e	10 48				(221) BCIS: aftershock of (191), H. 10h 39m 57s. USCGS: 10h 39m 56s.
(221)	F	11 00				
Aug. 3	eL	18 30				(222) BCIS: H. 17h 37m 42s. South Atlantic, Sandwich Islands.
(222)	F	18 50				
Aug. 4	(epPKP	10 09 40)				(223) BCIS: 5°2 S 152°0 E, H. 9h 48m 48s, h = about 60 km. USCGS: 5°S 153°E, H. 9h 48m 45s, h = about 60 km. New Britain.
(223)	ePS	10 19				
	eH	10 31				
	eL	10 50				
	F	12 15				
Aug. 5	eL	09 50				(224) BCIS: 41°N 144°E, H. 9h 09m 05s. USCGS: H. 9h 09m 12s. Off east coast of Hokkaido, Japan.
(224)	F	10 20				
Aug. 6	eL	18 10				(225) BCIS: 27°N 126½°E, H. 17h 22m 46s. USCGS: 26½°N 127°E, H. 17h 22m 45s. Ryukyu Islands.
(225)	F	18 21				
Aug. 8	e	23 25				(226) BCIS: 31½°N 67°E, H. 23h 02 13s. USCGS: 32°N 67°E, H. 23h 02m 10s. Southern Afghanistan.
(226)	F	23 55				
Aug. 9	eL	03 49				(227) Wi: iPKP 3h 23m 04s; i 3h 23m 09s. USCGS: 18½° 179°E, H. 3h 04m 16s, h = about 50 km. Fiji Islands.
(227)	F	04 00				
Aug. 9	iPKP	23 19 50	-			(228) Wi: iPKP 23h 19m 47s; ipPKP 23h 21m 02s; iPP 23h 23m 05s. USCGS: 15°S 176°W, H. 23h 00m 42s, h = about 250 km. Samoa Islands region.
(228)	ipPKP	23 21 03	-			
	eSS	23 41.5				
	F	01 00				
Aug. 12						(229) Wi: iPKP 0h 45m 05s (+); ipPKP 0h 46m 05s (-). USCGS: 19°S 176°W, H. 0h 25m 42s, h = about 200 km. Tonga Islands.
(229)						
Aug. 12	eP	17 12 14				(230) BCIS: 34½° N 138½°E, H. 16h 59m 39s, h = about 60 km. USCGS: 34°N 138°E, H. 16h 59m 33s. Near south coast of Honshu, Japan.
(230)	eS	17 22 36				
	eSS	17 28 19				
	eL	17 40				
	F	18 30				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Aug. 14	ePP	03 08 46				(231) BCIS: about 53°S 22°E, H. 2h 50.2m. USCGS: H. 2h 50m 30s. South Indian Ocean, Prince Edward Islands region.
(231)	ePS	03 18 00				
	ePPS	03 18 49				
	eSS	03 23.5				
	eL	03 40				
	F	05 20				
Aug. 15	iSKS	05 43 31				(232) BCIS: 0°0 lat. 101¼°E, H. 5h 21m 38s, h = about 300 km. USCGS: 0° 101½°E, H. 5h 20m 37s, h = about 300 km. Sumatra.
(232)	iS	05 44 11				
	eL	06 05				
	F	06 50				
Aug. 15	ePP	11 09 52				(233) F in next shock. BCIS: 0°0 lat. 123°0 E, H. 10h 51m 16s, h = about 100 km. USCGS: ½°S 124°E, H. 10h 51m 19s, h = about 150 km. Celebes.
(233)	epPP	11 10 33				
	ePS	11 17 19				
	eL	11 40				
Aug. 15	eL	12 08.5				(234) Wi: ePn 12h 05m 43s; ePg 12h 06m 58s; eSg 12h 09m 33s. BCIS: 43°.1 N 15°.9 E, H. 12h 02m 54s. Near coast of Yugoslavia.
(234)	F	12 30				
Aug. 15	iP	13 24 17	-			(235) Wi: 13h 24m 12s -. USCGS: 46°N 151°E, H. 13h 12m 10s. Kurile Islands.
(235)	eS	13 34 09				
	eL	13 48				
	F	15 00				
Aug. 16	e	00 47				(236) BCIS: 36°0 N 21½°E, H. 0h 38m 31s. USCGS: H. 0h 38m 30s. About 100 miles off south coast of Greece.
(236)	eL	00 49.5				
	F	01 10				
Aug. 16	eL	02 18				(237) Wi: eP 2h 14m 05s. BCIS: 36½°N 8½°W, H. 2h 09m 39s. USCGS: 37°N 8½°W, H. 2h 09m 39s. Near southwest coast of Portugal.
(237)	F	02 30				
Aug. 17	ez	01 33				(238) BCIS: 54½°N 36°W, H. 1h 23m 07s. USCGS: 54°N 35°W, H. 1h 23m 10s. North Atlantic Ocean.
(238)	F	02 30				
Aug. 20	eL	06 10				(239) BCIS: 7°0 N 79½°W, H. 5h 33m 48s. USCGS: 7½°N 80°W, H. 5h 33m 47s. Near south coast of Panama.
(239)	F	07 00				
Aug. 22	eL	20 15				(240) Wi: eP 19h 51m 15s. BCIS: 28°N 95°E, H. 19h 40m 13s. USCGS: H. 19h 40m 15s. Northern Assam.
(240)	F	20 35				
Aug. 23	iP	14 01 43	+			(241) Wi: eP 14h 01m 47s. USCGS: 15°S 68°W, H. 13h 48m 30s, h = about 100 km. Bolivia.
(241)	iz	14 04 50				
	epP	14 05 24				
	iS	14 12 06				
	eH	14 13 50				
	eL	14 35				
	F	16 00				
Aug. 24	iP	04 39 18				(242) Wi: iP 4h 39m 14s. BCIS: 53°.0 N 172°.5 E, H. 4h 27m 31s. USCGS: 53°N 172½°E, H. 4h 27m 33s. Near Islands, Aleutian Islands.
(242)	iPP	04 42 10				
	iz	04 44 00				
	eS	04 48 57				
	ePS	04 49 44				
	eSS	04 54 22				
	eSSS	04 57 50				
	eL	05 04				
	F	07 00				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Aug. 30 (243)	eP	04 36 00				(243) Wi: eP 4h 35m 58s. BCIS: 54½°N 164½°W, H. 4h 24m 33s. USCGS: 54°N 164°W, H. 4h 24m 24s. Unimak Islands, Aleutian Islands.
	ePP	04 38 52				
	eS	04 45 30				
	eL	04 59				
	F	06 30				
Aug. 30 (244)	eL	06 33				(244) USCGS: 41°N 128½°W, H. 5h 24m 52s. Off coast of Northern California.
	F	06 55				
Aug. 30 (245)	eL	18 23				(245) BCIS: 54½°N 35¼°W, H. 18h 11m 40s. North Atlantic Ocean.
	F	18 35				
Sept. 3 (246)	e	18 49.4				(246) BCIS: 36°.4 N 22°.4 E, H. 18h 40m 57s. USCGS: H. 18h 41m 00s. Near south coast of Greece.
	e	18 54.5				
	F	19 00				
Sept. 5 (247)	e	14 18.0				(247) BCIS: H. 14h 11.8m. 200 km north-west of Belgrad.
	F	14 25				
Sept. 6 (248)	eP	11 52 12				(248) BCIS: 35¾°N 25½°E, H. 11h 46m 37s. USCGS: H. 11h 46m 35s. Dodecanese Islands, Greece.
	eS	11 55 35				
	eL	11 57				
	F	12 40				
Sept. 6 (249)	eS	13 08.0				(249) BCIS: 35¼°N 25¼°E, H. 12h 58m 41s. USCGS: 37°N 26½°E, H. 12h 58m 45s. Dodecanese Islands, Greece.
	eL	13 09.5				
	F	13 20				
Sept. 7 (250)	ePKP	04 13 33				(250) Wi: iPKP 4h 13m 31s; ipPKP 4h 14m 36s. USCGS: 18°S 176½°W, H. 5h 54m 18s, h = about 250 km. Fiji Islands region.
Sept. 8 (251)	eP	18 13 37				(251) USCGS: 76½°N 7°E, H. 18h 08m 10s. Arctic Ocean, west of Spitsbergen.
	eS	18 18 10				
	eL	18 20.5				
	F	18 35				
Sept. 9 (252)	eL	18 30				(252) USCGS: 3°N 129°E, H. 17h 35m 13s, h = about 150 km. Halmahera.
	F	19 05				
Sept. 10 (253)	eL	03 25				
	F	04 00				
Sept. 11 (254)	ePKP	00 11 40				(254) Wi: ePKP$_1$ 0h 11m 46s; ePKP$_2$ 0h 12m 10s. BCIS: 25½°S 175½°W, H. 23h 51m 46s. USCGS: H. 23h 51m 44s. Tonga Islands region.
	ePP	00 15.5				
	eSS	00 35 16				
	eL	01 12				
	F	02 00				
Sept. 11 (255)	ePKP	02 52 08				(255) Wi: iPKP 2h 52m 09s. BCIS: 16¼°S 178¼°E, H. 2h 32m 30s. USCGS: 16½°S 178°E, H. 2h 32m 28s. Fiji Islands.
	ePP	02 55.4				
	eSS	03 14.1				
	eSSS	03 19.6				
	eL	03 45				
	F	05 00				
Sept. 11 (256)	e	07 47				(256) BCIS: H. 7h 34.7m. Crete Island region.
	F	07 52				
Sept. 11 (257)	eP	10 07 00				(257) USCGS: 14°N 91°W, H. 9h 54m 40s, h = about 100 km. Guatemala.
	eS	10 17 23				
	eL	10 32				
	F	11 30				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Sept. 11 (258)	eP	21 15 44				(258) USCGS: 49½° 155°E, H. 21h 03m 56s. Northern Kurile Islands.
	ePP	21 18 40				
	eS	21 25 25				
	eL	21 43				
	F	22 30				
Sept. 13 (259)	e	14 55.5				(259) BCIS: 45½°N 17½°E. Yugoslavia.
	F	14 58				
Sept. 16 (260)	iP	08 46 08				(260) Wi: eP 8h 46m 03s. BCIS: 34¼°N 69½°E, h. 8h 37m 22s. USCGS: 34°N 69½°E, H. 8h 37m 22s. Pakistan-Afghanistan border.
	ePP	08 48 04				
	iS	08 53 18				
	eScS	08 56.0				
	eSS	08 57 10				
	eL	09 00				
	F	10 45				
Sept. 16 (261)						(261) Wi: iPKP 13h 45m 45s. USCGS: 19°S 174½°W, H. 13h 26m 30s, h = about 200 km. Tonga Islands.
Sept. 16 (262)	eL	14 50				(262) Disturbed by microseisms. USCGS: aftershock of (260), H. 14h 23m 22s.
	F	15 10				
Sept. 16 (263)	eS	18 16.5				(263) BCIS: 36½°N. 26½°E, H. 18h 07m 38s. USCGS: 36½°N 26°E, H. 18h 07m 38s. Aegean Sea.
	eL	18 19				
	F	18 35				
Sept. 19 (264)	iP	23 59 00				(264) Wi: iP 23h 58m 52s. USCGS: 23½°N 94½°E, H. 23h 47m 44s, h = about 150 km. Western Burma.
	eS	00 08 05				
	eH	00 09 00				
	eL	00 25				
	F	00 35				
Sept. 20 (265)	e	03 54				(265) BCIS: 23½°S 69¾°W, H. 3h 02m 32s. USCGS: H. 3h 02m 50s. Near coast of Northern Chile.
	F	04 15				
Sept. 20 (266)	eP	20 17 51				(266) Wi: iP 20h 17m 45s. USCGS: foreshock of (267), H. 20h 06m 09s.
	eS	20 27 30				
	eL	20 45				
	F	21 30				
Sept. 20 (267)	iP	22 03 39			+	(267) Wi: iP 22h 03m 35s. F in next shock. Disturbed by microseisms. USCGS: 51½°N 159½°E, H. 21h 52m 01s. Near south coast of Kamchatka.
	ipP	22 03 50				
	eS	22 13 20				
	eL	22 30				
Sept. 20 (268)	ez	23 13 36				(268) Wi: eP 23h 13m 32s. Disturbed by microseisms. BCIS: 1°S 24°W, H. 23h 03m 05s. Mid-Atlantic Crust.
	eH	23 21.1				
	eL	23 28				
	F	00 30				
Sept. 21 (269)	ePP	19 28.8				(269) Wi: iP 19h 24m 45s; iPP 19h 28m 59s. USCGS: 26½°S 63°W, H. 19h 11m 59s. Santiago del Estera, Argentina.
Sept. 21 (270)						(270) Wi: iP 23h 07m 42s +. USCGS: 46°N 151½°E, H. 22h 55m 46s. Kurile Islands.
Sept. 21? or 22nd? (271)						(271) Wi: iPKP 7h 12m 04s -. USCGS: 22½°S 179½°W, H. 6h 53m 20s, h = about 650 km. Fiji Islands region.

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Sept. 22 (272)	eL	16 19				(272) Wi: eP 16h 02m 40s. BCIS: 39°N 69°E, H. 15h 54m 27s. USCGS: 28°N 69°E, H. 15h 54m 21s. Tadzhik, S.S.R.
	F	16 35				
Sept. 24 (273)	eL	07 15				(273) F in next shock. USCGS: 15½°S 173½°W, H. 6h 04m 37s. Samoa Islands.
Sept. 24 (274)	ePKP	07 22 07				(274) Wi: ePKP 7h 22m 07s. USCGS: 22°S 175°E, H. 7h 02m 13s. Fiji Islands region.
	eL	08 12				
	F	09 00				
Sept. 24 (275)	iP	10 29 27				(275) Wi: eP 10h 29m 19s. Aftershock of (260). BCIS: 34½°N 69½°E, H. 10h 20m 38s. USCGS: 34°N 69½°E, H. 10h 20m 38s. Pakistan-Afghanistan border.
	eS	10 36 34				
	eSS	10 40.2				
	eL	10 45				
	F	11 30				
Sept. 26 (276)	eL	05 50				(276) USCGS: 30½°N 142°E, H. 5h 04m 01s. Off south coast of Honshu, Japan.
	F	06 20				
Sept. 26 (277)						(277) Wi: iP 13h 58m 27s. USCGS: 52°N 176°E, H. 13h 46m 52s, h = about 100 km. Rat Islands, Aleutian Islands.
Sept. 29 (278)	eL	09 48				(278) Disturbed by microseisms. No records from 9h 20m till 9h 47m. Wi: eP 9h 16m 10s. BCIS: 7°N 94½°E, H. 9h 03m 39s. USCGS: 7½°N 94½°E, H. 9h 03m 37s. Nicobar Islands.
	F	11 00				
Sept. 29 (279)	eL	22 03				(279) Disturbed by microseisms. Wi: eP 21h 33m 07s. USCGS: 37½°N 141°E, H. 21h 20m 52s. Honshu, Japan.
	F	22 30				
Sept. 29 (280)	eL	23 20				(280) Disturbed by microseisms. BCIS: 3°0 N 128½°E, H. 22h 22m 46s, h = about 60 km. USCGS: 3°N 128°E, H. 22h 22m 48s, h = about 60 km. Off north coast of Halmahera.
	F	23 30				
Sept. 30 (281)	eL	00 00				(281) Wi: iP 23h 33m 15s +. USCGS: 35°5 N 140°E, H. 23h 20m 52s, h = about 60 km. Central Honshu, Japan.
	F	00 30				
Oct. 2 (282)	eP	15 07 54				(282) Disturbed by microseisms. Wi: iP 15h 07m 50s. USCGS: 53°N 159°E, 14h 56m 26s, h = about 60 km. Near southeast coast of Kamchatka.
	eS	15 17 40				
	eL	15 37				
	F	16 10				
Oct. 7 (283)	eL	22 43				(283) USCGS: 13°S 167°E, H. 21h 27m 50s, h = about 100 km. New Hebrides Islands.
	F	23 00				
Oct. 8 (284)	ePKP	15 15 34				(284) Wi: ePKP 15h 15.6m. USCGS: 20°S 174°W, H. 14h 55m 49s. Tonga Islands.
	eSS	15 38 20				
	eH	15 57				
	eL	16 15				
	F	17 30				
Oct. 9 (285)	ePKP	06 39.2				(285) USCGS: 19½°S 174°W, H. 6h 19m 27s. Tonga Islands.
	eL	07 45				
	F	08 30				
Oct. 10 (286)	eL	16 04				(286) USCGS: 28½°N 78°E, H. 15h 31m 34s. Northern India.
	F	16 15				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Oct. 11 (287)	iP	02 36 25	+	6	45	(287) Wi: iP 2h 36m 19s. He: iP 2h 36m 38s. BCIS: 46°0 N 150°0 E, H. 2h 24m 36s, h = about 100 km. USCGS: 46°N 150½°E, H. 2h 24m 33s, h = about 100 km. Kurile Islands.
	ipPP	02 39 23	(+)			
	ipPP	02 39 51				
	iS	02 46 07				
	isS	02 46 36				
	eSSS	02 54 20				
	eL	02 59				
	F	06 00				
Oct. 11 (288)	eP	17 09 57				(288) Wi: iP 17h 00m 56s. USCGS: 40½°N 126½°W, H. 16h 48m 46s. Off Cape Mendocino, California.
	eS	17 10 53				
	eSS	17 16.0				
	eL	17 24				
	F	18 30				
Oct. 12 (289)	eP	02 51 12				(289) Disturbed by microseisms. USCGS: 15½°S 75°W, H. 2h 37m 45s, h = about 60 km. Near west coast of central Peru.
	ePP	02 55.0				
	eS	02 01 50				
	eN	03 02.5				
	eL	03 19				
	F	04 20				
Oct. 12 (290)	eS	12 45				(290) Disturbed by microseisms. Wi: iP 12h 34m 50s; i 12h 35m 02s. USCGS: 42½°N 144½°N, H. 12h 22m 46s. Near east coast of Hokkaido, Japan.
	eL	13 00				
	F	13 45				
Oct. 13 (291)	eL	19 55				(291) USCGS: 5°S 149½°E, H. 18h 54m 06s, h = about 150 km. New Britain.
	F	20 15				
Oct. 14 (292)	eL	21 50				(292) Wi: eP 21h 17m 52s. USCGS: 38°N 141½°E, H. 21h 05m 36s, h = about 60 km. Off east coast of Honshu, Japan.
	F	22 00				
Oct. 18 (293)	eL	20 50				(293) BCIS: H. 20h 04.6m. Galapagos Islands region.
	F	21 00				
Oct. 19 (294)	ePKP	12 19 20				(294) Wi: ePKP$_1$ 12h 19m 14s; iPKP$_2$ 12h 19m 18s; epPKP$_1$ 12h 21m 42s. USCGS: 21°S 179°W, H. 12h 00m 38s, h = about 650 km. Fiji Islands.
Oct. 19 (295)	eL	15 20				(295) Disturbed by microseisms. Wi: ePKP 14h 25m 42s. USCGS: 56½°S 122°W, H. 14h 05m 34s. South Pacific Ocean.
	F	16 30				
Oct. 19 (296)	eP	20 59.5				(296) Disturbed by microseisms. Wi: eP 20h 59m 19s. BCIS: 52½°N 177½°E, H. 20h 47m 32s. USCGS: 52°N 177°E, H. 20h 47m 33s. Rat Islands, Aleutian Islands.
	iS	21 09 08				
	iH	21 10 24				
	eSS	21 14.0				
	eL	21 28				
	F	23 00				
Oct. 22 (297)	eL	13 35				(297) Disturbed by microseisms. USCGS: 9½°S 150°E, H. 12h 35m 10s. Near coast of New Guinea.
	F	15 00				
Oct. 23 (298)	ePP	08 58.5				(298) Disturbed by microseisms. Wi: eP 8h 54m 50s. BCIS: 13½°N 120½°E, H. 8h 41m 21s, h = about 100 km. USCGS: 13½°N 120½°E, H. 8h 41m 22s, h = about 100 km. Mindoro Island, Philippine Islands.
	eS	09 07.2				
	eSS	09 28				
	eL	09 28				
	F	10 00				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Oct. 24 (299)	iP	14 54 33				(299) Disturbed by microseisms and visitors. Wi: eP 14h 54.7m. BCIS: 11½°N 86½°W, H. 14h 42m 09s. USCGS: 12°N 87°W, H. 14h 42m 10s. Near coast of Nicaragua.
	iPP	14 57 40				
	eL	15 22				
	F	18 00				
Oct. 26 (300)	ePKP	23 09.9				(300) Disturbed by microseisms. Wi: ePKP 23h 09m 55s. USCGS: 14°S 167°E, H. 22h 50m 24s. New Hebrides Islands.
	epPKP	23 10 19				
	iPP	23 12 49				
	ipPP	23 13 16				
	ePKS	23 13 34				
	ePPP	23 15 48				
	ePS	23 23.0				
	eSS	23 31.1				
	eL	23 55				
	F	01 30				
Oct. 27 (301)	eL	16 15				(301) Disturbed by microseisms. USCGS: 12°N 86°W, H. 15h 33m 08s, h = about 200 km. Near coast of Nicaragua.
	F	16 30				
Oct. 28 (302)	ePKP	03 48.6				(302) Disturbed by microseisms. Wi: $ePKP_1$ 3h 48.7m; $ePKP_2$ 3h 49m 19s. BCIS: 33°S 178½°W, H. 3h 28m 37s. USCGS: 32°S 179°W, H. 3h 28m 41s. Kermadec Islands.
	ePS	04 04				
	eSS	04 13.5				
	eL	04 31				
	F	05 40				
Oct. 28 (303)	eL	11 30				(303) BCIS: 14°N 123½°E, H. 10h 45m 06s. USCGS: 14°N 123½°E, H. 10h 45m 06s. Luzon, Philippine Islands.
	F	12 30				
Oct. 29 (304)	eL	07 47				(304) BCIS: 35½°N 26°E, H. 7h 34m 56s. USCGS: H. 7h 34m 57s. Dodecanese Islands.
	F	07 35				
Oct. 29 (305)						(305) Wi: iPKP 22h 53m 16s. USCGS: 22°S 177°W, H. 22h 33m 49s, h = about 200 km. Tonga Islands region.
Oct. 30 (306)	eL	00 20				(306) Wi: eP 0h 15m 20s. BCIS: 66½°N 18°0 W, H. 0h 11m 01s. USCGS: 66½°N 17½°W, H. 0h 11m 03s. Near coast of Northern Iceland.
	F	00 26				
Oct. 31 (307)	iP	14 11 56				(307) Wi: iP 14h 11m 52s; i 14h 12m 06s; 14h 14m 27s. BCIS: 27½°N 54½°E, H. 14h 03m 44s. USCGS: 26½°N 54½°E, H. 14h 03m 38s. Southern Iran.
	iPP	14 13 45				
	iS	14 18 26				
	eSS	14 21 28				
	eScS	14 21 48				
	eL	14 24				
	F	16 30				
Nov. 2 (308)	eH	16 09.5				(308) BCIS: 39°5 N 23°0 E, H. 16h 04m 33s. USCGS: 39°N 23°E, H. 16h 04m 30s. Near east coast of Greece.
	eL	16 14				
	eF	16 30				
Nov. 3 (309)						(309) Wi: iPKP 18h 21m 04s. USCGS: 24°S 180°, H. 18h 02m 04s, h = about 500 km. South of Fiji Islands.
Nov. 4 (310)	ePKP	07 25 28				(310) Wi: iPKP 7h 25m 33s +. USCGS: 22°S 175°W, H. 7h 05m 43s, h = about 60 km. Tonga Islands.
	ePP	07 29.4				
	eSS	07 49 20				
	eL	08 15				
	F	09 20				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Nov. 5 (311)						(311) Wi: e 19h 51m. BCIS: 46°5 N 13°E, H. 19h 45m 25s. Carinthia, Austria.
Nov. 8 (312)	iPKP	07 09 16)				(312) Disturbed by microseisms. Wi: iPKP 7h 09m 11s. USCGS: 18°S 178°W, H. 6h 50m 24s, h = about 500 km. Fiji Islands.
Nov. 9 (313)	iP	13 18 24	+	6	8	(313) Disturbed by microseisms. Wi: iP 13h 18m 27s; epP 13h 19m 00s. USCGS: 17°N 94°W, H. 13h 06m 10s, h = about 150 km. Southern Mexico.
	ipP	13 18 58				
	iS	13 28 28				
	iH	13 29 39				
	eL	13 45				
	F	14 30				
Nov. 10 (314)	eL	15 28				(314) Disturbed by microseisms. Wi: eP 14h 53m 04s. BCIS: 15½°N 120½°E, H. 14h 39m 56s. USCGS: 16°N 121°E, H. 14h 39m 56s. Luzon, Philippine Islands.
	F	15 40				
Nov. 11 (315)						(315) Wi: iP 3h 32m 18s. USCGS: 16½°S 179°W, H. 3h 13m 48s, h = about 600 km. Fiji Islands.
Nov. 11 (316)	eL	20 00				(316) Disturbed by microseisms. Wi: iP 19h 27m 23s (-). USCGS: 44°N 149°E, H. 19h 15m 20s. Kurile Islands.
	F	20 15				
Nov. 12 (317)	eL	11 15				(317) BCIS: Probably Mid-Atlantic Ridge.
	F	11 20				
Nov. 12 (318)	eL	11 35				(318) BCIS: Probably Mid-Atlantic Ridge.
	F	11 40				
Nov. 13 (319)	eL	09 00				(319) Wi: ePKP 8h 00m 53s. USCGS: 21½°S 174°E, H. 7h 40m 58s. Loyalty Islands region.
	F	09 30				
Nov. 13 (320)	eL	11 05				(320) USCGS: 48½°S 124°E, H. 9h 55m 30s. Indian Ocean, about 1000 miles south of Australia.
	F	12 00				
Nov. 13 (321)	eL	15 30				(321) BCIS and USCGS: 15°N 123°E, H. 14h 38m 51s. Near east coast of Luzon.
	F	16 00				
Nov. 14 (322)	eP	01 00 00				(322) Wi: iP 0h 59m 52s; ePP 1h 01.6m. USCGS: 36½°N 71°E, H. 0h 51m 27s, h = about 150 km. Hindu Kush.
	epP	01 00 27				
	ePP	01 01 55				
	eS	01 06 53				
	esS	01 07 40				
	eSS	01 10.5				
	eL	01 14				
	F	01 50				
Nov. 15 (323)	eL	18 20				(323) USCGS: 3°S 103½°W, H. 17h 27m 55s. Pacific Ocean, about 900 miles west of Galapagos Islands.
	F	18 35				
Nov. 16 (324)	eL	12 25				(324) USCGS: 8½°N 71°W, H. 11h 53m 54s. Northwestern Venezuela.
	F	13 05				
Nov. 17 (325)	eL	08 45.4				
	F	08 47				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Nov. 17 (326)	eP	20 38 28				(326) Wi: eP 20h 38m 20s; e 20h 38m 48s. USCGS: 54½°N 134°W, H. 20h 27m 15s. Queen Charlotte Islands region.
	eS	20 47 28				
	eSS	20 52.0				
	eSSS	20 55.7				
	eL	21 00				
	F	22 20				
Nov. 18 (327)	eL	05 45				(327) USCGS: 40°N 76½°E, H. 5h 19m 26s. West Sinkiang Province, China.
	F	06 02				
Nov. 18 (328)	eL	19 42				(328) Disturbed by microseisms. USCGS: 27°S 176°W, H. 18h 16m 25s. Kermadec Islands region.
	F	20 20				
Nov. 18 (329)	eL	22 09				(229) Wi: eP 21h 35m 17s. Disturbed by microseisms. BCIS: 28½°N 129½°E, H. 21h 22m 40s. USCGS: H. 21h 22m 38s. Kurile Islands.
	F	22 30				
Nov. 19 (330)	eL	12 55				(330) Disturbed by microseisms. USCGS: 14°N 144°E, H. 12h 02m 26s, h = about 150 km. Marianas Islands.
	F	13 25				
Nov. 20 (331)	eL	23 20				(331) Disturbed by microseisms. BCIS: 39¾°N 26°0 E, H. 23h 20m 52s. USCGS: 39½°N 25½°E, H. 23h 20m 52s. Aegean Sea.
	F	23 40				
Nov. 21 (332)	eL	08 15				(332) Disturbed by microseisms. USCGS: 38°N 142°E, H. 7h 33m 28s, h = about 60 km. Near east coast of Honshu, Japan.
	F	08 50				
Nov. 25 (333)	eL	15 28				(333) Disturbed by microseisms. Wi: eP 15h 23.9m. BCIS: 60°N 30°W, H. 15h 19m 03s. North Atlantic Ocean.
	F	15 35				
Nov. 27 (334)	eL	00 45				(334) Wi: iPKP 23h 49m 24s +. BCIS and USCGS: 22°S 169°E, H. 23h 29m 41s. Loyalty Islands.
	F	01 05				
Nov. 28 (335)	eS	19 48 44				(335) Disturbed by microseisms. USCGS: 49½°N 155°E, H. 19h 27m 11s. Northern Kurile Islands.
	eH	19 54 04				
	eL	20 05				
	F	21 00				
Nov. 29 (336)	eL	09 55				(336) Disturbed by microseisms. USCGS: 27°N 141°E, H. 9h 15m 20s. Bonin Islands.
	F	11 00				
Dec. 1 (337)						(337) Wi: ePKP 8h 03m 32s. USCGS: aftershock of (334), H. 7h 43m 51s.
Dec. 2 (338)						(338) Wi: 3h 11m 42s. USCGS: 52½°N 169°W, H. 2h 59m 56s. Fox Islands, Aleutian Islands.
Dec. 3 (339)	eL	08 00				(339) Disturbed by microseisms. USCGS: 53°N 169°W, H. 7h 20m 08s. Fox Islands, Aleutian Islands.
	F	08 30				
Dec. 4 (340)	eL	09 33				(340) Disturbed by microseisms. USCGS: 50°N 156°E, H. 8h 44m 28s. Kurile Islands.
	F	09 36				
Dec. 4 (341)	eL	21 45				(341) Disturbed by microseisms. USCGS: 26°N 127°E, H. 20h 59m 52s. Ryukyu Islands.
	F	22 00				

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Dec. 4 (342)	e	23 30				(342) Disturbed by microseisms. BCIS: 15°N 92½°W, H. 23h 01m 32s, h = about 100 km. USCGS: 15°N 92°W, H. 23h 01m 35s, h = about 150 km. Guatemala.
	F	24 00				
Dec. 8 (343)	iP	16 22 22				(343) Disturbed by microseisms. Wi: iP 16h 22m 17s. BCIS: 51½°N 179°W, H. 16h 10m 26s. USCGS: 51°N 179½°W, H. 16h 10m 27s. Andreanof Islands, Aleutian Islands.
	eS	16 32 10				
	eL	16 47				
	F	18 40				
Dec. 8 (344)						(344) Wi: eP 16h 28m 22s; e 16h 28m 25s. BCIS: aftershock of (343), H. 16h 16m 30s.
Dec. 9 (345)						(345) Wi: iP 1h 32m 17s. BCIS: H. 1h 12.9m. Fiji Islands region.
Dec. 9 (346)						(346) Wi: eP 5h 30m 52s. USCGS: aftershock of (339), H. 5h 19m 06s.
Dec. 16 (347)						(347) Wi: eP 1h 54m 14s. BCIS: 6¾°N 77½°W, H. 1h 41m 51s. USCGS: 6½°N 78°W, H. 1h 41m 52s. Near west coast of Colombia.
Dec. 18 (348)	eP	02 46				(348) Disturbed by microseisms. Wi: eP 2h 45m 04s. USCGS: 25°2 S 68½°W, H. 2h 31m 00s. Argentina-Chile border.
	ez	02 49				
	eS	02 56.0				
	eL	03 13				
	F	04 30				
Dec. 18 (349)	eL	18 07				(349) Disturbed by microseisms. Wi: eP 17h 59m 13s. BCIS: 31½°N 31¼°E, H. 17h 53m 02s. Dead Sea region.
	F	20 50				
Dec. 18 (350)	eL	20 15				(350) Disturbed by microseisms. USCGS: 36°S 77°E, H. 19h 20m 06s. South Indian Ocean.
	F	20 50				
Dec. 19 (351)						(351) Wi: iP 1h 29m 45s. USCGS: 51½°N 157°E, H. 1h 18m 10s. Southern Kamchatka.
Dec. 20 (352)						(352) Wi: i 0h 44m 04s.
Dec. 20 (353)	eL	12 20				(353) Disturbed by microseisms. Wi: ePKP 11h 20.0m. USCGS: 27°S 176°W, H. 10h 59m 56s. Kermadec Islands.
	F	13 30				
Dec. 20 (354)						(354) Wi: eP 24h 09m 00s. USCGS: 54°N 161½°E, H. 23h 57m 36s. Kamchatka.
Dec. 21 (355)	eL	04 06				(355) Disturbed by microseisms. Wi: eP 3h 38m 50s. USCGS: 27°N 96½°E, H. 3h 27m 41s. Burma-Pakistan border.
	F	04 15				
Dec. 21 (356)	iP	09 10 16				(356) No records from 9h 24m till 15h 50m. Wi: eP 9h 10m 11s. USCGS: 51°N 131°W, H. 8h 58m 53s. Queen Charlotte Islands.
	eS	09 19 40				
Dec. 21 (357)	eL	20 53				(357) Disturbed by microseisms. Wi: eP 20h 22m 45s. USCGS: 34°N 139°E, H. 20h 10m 06s. Off south coast of Honshu, Japan.
	F	21 30				

International Seismological Centre From the ISC collection scanned by SISMOS

Seismic Records at De Bilt

Date 1956	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Dec. 22 (358)	eL	23 50				(358) Disturbed by microseisms. USCGS: 33½°N, 139°E, H. 23h 12m 35s. Aftershock of (357).
	F	00 50				
Dec. 23 (359)	eL	09 25				(359) Disturbed by microseisms. USCGS: 22°N 144½°E, H. 8h 37m 26s, h = about 100 km. Marianas Islands region.
	F	09 40				
Dec. 23 (360)	eL	18 20				(360) Disturbed by microseisms. BCIS: 25½°N 141°E, H. 17h 26m 52s. Vulcano Islands.
	F	18 35				
Dec. 25 (361)						(361) Wi: eP 3h 03.8s. USCGS: 48½°N 28°W, H. 2h 58m 48s. North Atlantic Ocean.
Dec. 25 (362)						(362) Wi: ePKP 4h 49m 17s. USCGS: 20°S 176°W, H. 4h 29m 49s. Tonga Islands.
Dec. 25 (363)	iP	09 38 26	+	4	8	(363) Disturbed by microseisms. BCIS: 48¾°N 27¾°W, H. 9h 33m 36s. USCGS: 48½°N 28°W, H. 9h 33m 37s. North Atlantic Ocean.
	eS	09 42 20				
	iPcP	09 42 34				
	eL	09 44				
	F	10 40				
Dec. 27 (364)	iPKP	00 33 43	+			(364) Disturbed by microseisms. USCGS: 24°S 177°W, H. 0h 14m 15s, h = about 300 km. Tonga Islands region.
	eSKKS	00 44				
	eSS	00 56 27				
	eL	01 25				
	F	02 50				
Dec. 27 (365)	eL	10 20				(365) Disturbed by microseisms. BCIS: 35¾°N 27¾°E, H. 10h 08m 10s. USCGS: 37°N 29°E, H. 10h 08m 15s. Near south coast of Rhodos Island.
	F	10 30				
Dec. 28 (366)	eL	15 45				(366) Disturbed by microseisms. USCGS: 39°S 177½°E, H. 12h 24m 40s, h = about 150 km. Near coast of North Island, New Zealand.
	F	16 30				
Dec. 29 (367)						(367) Wi: iPKP 19h 45m 59s. USCGS: 21°S 180°, H. 19h 27m 16s, h = about 600 km. Fiji Islands.
Dec. 29 (368)						(368) Wi: ePKP 20h 42m 03s. USCGS: 21°S 175½°W, H. 20h 22m 12s. Tonga Islands.
Dec. 30	eL	22 40				(369) Disturbed by microseisms. USCGS: 24°N 94½°E, H. 21h 59m 06s. India-Burma border.
	F	22 50				