KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT

No. 108.

SEISMIC RECORDS AT DE BILT

32.

1944.

TE VERKRIJGEN BIJ
DE RIJKSUITGEVERIJ TE 'S GRAVENHAGE.

Prijs *f* 1.00.

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PREFACE

This Seismic Yearbook was composed by Dr J. Veldkamp, director of the Section for Terrestrial Magnetism and Seismology, and bij Mr. J. Oldeman, scientific assistant.

The Director in Chief of the Royal Netherlands Meteorological Institute,

F. A. Vening Meinesz.

De Bilt, December 1947.

INTRODUCTION.

The geografic coordinates of the seismographic station are: 52° 6′,1 N and 5° 10′,6 E. The instruments are standing 3 m above mean sea-level on a subsoil consisting of sand (diluvial deposits).

The instruments used 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. Below are given: the period of the galvanometer T1, the reduced length of pendulum l, the distance between the mirror of the galvanometer and the recording paper A1, and the limits for the natural period of the undamped pendulum T, of the damping constant μ and of the multiplying factor k for the year 1944.

	NS comp.	EW comp.	Z comp.
Period of galvanometer T_1	24,43 sec	24,96 sec.	12,0 sec
Reduced length of pendulum l	123,1 mm	122,6 mm	406 mm
Distance A1	1380 mm	1380 mm	1380 mm
Period of pendulum T	23,20—25,40 sec	23,25—26,18 sec	12 sec
Damping constant μ	—0,063; 0,142	—0,103; —0,016	0,0
Multiplying factor k	10,76; 11,30	10,35 11,18	178

The Wiechert and Bosch seismographs. The mean values of the natural period of the undamped pendulum T, of the damping ratio ε and of the static magnification V are for the year 1944:

	T	ε	V
Wiechert (NS comp.)	4,9 sec	4	160
„ (EW comp.)	4,9 sec	4	170
Bosch (NS comp.)	18,0 sec	4	20
„ (EW comp.)	18,0 sec	4	20

In spite of the war the seismographic station was in function during the greater part of the year. Owing to the liberation of the southern part of the country the transport of coal stopped in September, and consequently the power supply was reduced on a large scale in that part of the country, which remained in enemy hands. On the 13th of October the power supply to the seismographic station was cut off. For a few weeks it was tried to maintain the recording by means of the WIECHERT and BOSCH seismographs, but soon circumstances got too difficult and the recording was stopped.

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

The time is Greenwich mean time, from midnight till midnight counted as 0 till 24 hours. In the column "direction" + means an upward movement of the soil (compression), — means a downward movement (dilatation). Uncertain data have been given in parenthesis. The subjoined symbols were used for the phases.

P = normal first phase, or first longitudinal tremor.
pP = P-wave one time reflected at the earth's surface near the epicenter.
PP = P-wave reflected halfway between epicenter 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 epicenter.
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 epicenter 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 epicenter.
sS′ = S′-wave reflected near the epicenter.
SKKS = alternating wave which has been reflected within the core.
L = long waves or surface waves.
M = maximum of the surface waves.
L′ = surface waves travelling around the major arc.
M′ = maximum of these waves.
i = sudden beginning of the phase.
e = gradual beginning of the phase.
F = end of discernable movement.
H.O. = time of the shock at point of origin.
h = depth of the origin.
△ = distance of epicenter.

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

The distance of epicenter and the depth of origin have been calculated by means of the curves of Brunner's "focal depth-time-distance chart" and the time tables of Macelwane (1933) and of Jeffreys and Bullen (1940).

The data given in the column "amplitude" are the maximum amplitudes measured from the medium line. Generally the first and largest maximum of the L-waves has been given only. The amplitude has been omitted when the oscillations were too irregular. The amplitudes have been calculated by means of the formula:

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

Here A_1 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 mean values were used: k = 10,9 and T = 24,5 sec.

For the vertical component of the Galitzin records they were: k = 175 and T = 12,0 sec.

The seismological bulletins of the following stations were available: Apia, Bucarest, Harvard, Helwan, La Paz, Leipzig, Parc Saint Maur, Pasadena, Riverview, Timisoara, Uccle, Uppsala, Wellington and Zürich.
BCIS = Bureau central international séismologique.
JSA = Jesuit seismological association.
USCGS = U.S. coast and geodetic survey.

The microseismic activity.

The table on page VII gives the character of the microseismic activity (see also 1915 p. 101 and 1916 p. 101). The employed 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 Wiechert seismograph were employed. In the table below the amplitudes of the oscillations (measured from the medium line) and the corresponding amplitudes of the movement of the soil are given.

Character	Ampl. record	Ampl. soil
0	0—¼ mm	0—1¼ μ
1	¼—1 „	1¼—5 „
2	1—2 „	5—10 „
3	>2 „	>10 „

Character of the microseismic movement.

Date 1944	Jan.	Febr.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2	1, 2, 1	1, 2	1, 2, 1	0	0, 1	1	1	2, 1	1	1	1
2	2	1, 2	2, 3, 2	1, 2	0, 1, 2	1	1, 0	1	1, 2, 3	1, 2	1	1
3	2	2, 3	2, 3	2	2, 3, 2	1	0	1, 0	3	2, 1	1, 2, 1	1
4	2, 3, 2	3	3, 2	2, 3	2, 3	1, 2, 1	0, 1, 0	0	3	1	1	1, 2, 1
5	2, 1, 2	3, 2, 1	2, 1	3, 2, 1	3	1, 2, 1	0, 1, 0	0	3, 2	1	1, 2	1, 2, 1
6	2	1, 2, 1	1	1, 2, 1	3, 2, 1	1, 2, 1	0, 1, 0	0	2, 1	1, 2, 1	2, 1, 2	1
7	2, 3, 2	1, 2, 3	1	1	1	1	0, 1	0	1, 2, 3	1	2, 3, 2	1
8	2	3, 2	1	1	1	1	1, 0	0	3, 2	1	2, 1	1
9	2, 3	2, 3	1	1	1	1	0, 1	0	2, 1	1	1, 2	1
10	3	3, 2	1	1	1	1	1	0, 1	1	1	2, 1	1, 2, 1
11	3, 2	2, 1	1, 3, 2	1	1	1	1, 2, 1	1	1, 0	1, 2, 1	1	1
12	2, 3, 2	1	2, 1	1	1	1	1	1	0	1	1	1, 0
13	2	1, 2, 1	1, 2, 3	1	1	1	1	1	0, 1, 0	1	1, 2, 1	0
14	2	1	3, 2, 1	1	1, 2, 1	1	1	1	0	1, 0	1, 2, 1	0
15	2, 1	1, 2, 1	1, 0	1	1	1	1	1	0, 1	0	1	
16	1	1, 2, 1	0, 1	1	1	1, 2	1, 0	1, 0	1	0, 1	1	
17	1	1	1	1	1	2, 3, 1	0, 1, 0	0, 1	1	1	1, 3, 1	
18	1, 2	1	1	1	1, 0	1	0	1	1	1, 2	1	
19	2, 3, 2	1	1	1	0	1	0	1, 0	1	2, 1	1	
20	2	1	1, 2	1, 2, 1	0	1	0, 1, 0	0, 1	1	1	1, 3	
21	2	1	2, 1	1	0, 1	1	0, 1	1, 2	1	1, 0	3	
22	2, 3	1	1	1	1	1	1	2, 1	1	0	3, 2	
23	3	1	1	1	1	1	1	1, 0	1	0, 1	2	
24	3	1	1	1, 2, 1	1	1	1	0, 1	1, 2, 1	1, 0	2, 3, 1	
25	3	1	1	1, 2, 1	1, 2	1	1	1	1, 2	0	1	
26	3	1, 2, 1	1	1	2, 1	1, 0	1	1, 0	2, 3, 2	0, 1	1, 2, 1	
27	2, 3, 2	1	1	1	1, 2, 1	0, 1	1	0	2	1	1, 2, 1	
28	2, 1	1, 2, 1	1, 0	1	1, 0	1	1	0, 1	2, 1	1	1	
29	1	1	0, 1	1, 0	0	1, 0	1	1	1, 2, 1	1, 0	1	
30	1		1	0	0	0, 1	1	1, 2	1	0, 1	1	
31	1		1		0		1	2		1		

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Jan. 3 (1)	eL	10 16				
	MN	10 17		14	6	
	F	10 30				
Jan. 5 (2)	eL	3 36				
	MH	3 40		25	3	
	F	4 05				
Jan. 5 (3)	eL	5 17				
	F	5 25				
Jan. 5 (4)	iP	7 49 02	(—)			(4) △ = 2600 km. BCIS: 36° N 29° E, H.O. $7^h43{,}9^m$. Helwan: △ = 720 km, northeast of Crete. Uccle: △ = 23°.
	eS	7 53 14				
	eL	7 56				
	F	8 30				
Jan. 5 (5)	eS	11 20 20				(5) USCGS: 13° N 71° W, H.O. $10^h59{,}1^m$, Gulf of Venezuela.
	eL	11 31				
	F	11 50				
Jan. 5 (6)	eP	21 26 09				(6) △ = 10800 km. USCGS: 3° S 102° E, H.O. $21^h12{,}7^m$, SW coast of Sumatra. Pasadena: 3° S 100° E, H.O. $21^h12{,}7^m$. Riverview: 0° S 102° E, H.O. $21^h12^m40^s$.
	ePP	21 30 09				
	ePPP	21 32 15				
	iS′	21 36 47				
	eSKKS	21 37 20				
	ePS	21 38 50				
	eL	21 55				
	MN	22 11		24	40	
	F	24 00				
Jan. 7 (7)	e(PS)	3 20				(7) USCGS: 4°,5 S 143° E, H.O. $2^h49{,}3^m$, East New Guinea. Riverview: 5° S 142° E, H.O. $2^h49^m15^s$.
	F	4 20				
Jan. 7 (8)	eL	9 47				
	F	10 15				
Jan. 8 (9)	eL	20 46				
	F	20 52				
Jan. 10 (10)	iP	20 22 38	+			(10) △ = 9900 km. JSA: 16°,4 N 100°,3 W, H.O. $20^h09^m50^s$. USCGS: 17°,4 N 100°,9 W, H.O. $20^h09^m56^s$, SW Coast of Mexico. Damage in State of Guerrero, felt in Mexico City. Pasadena: 18°,1 N 100°,6 W, H.O. $20^h10^m00^s$.
	ePP	20 26				
	iS	20 33 26				
	eSS	20 38 30				
	eSSS	20 43				
	eL	20 50				
	Mz	21 03		18	30	
	F	22 00				
Jan. 12 (11)	eL	15 40				(11) USCGS: 40°,6 N 125°,1 W, H.O. $15^h02^m37^s$, off coast of Cape Mendocino, California.
	F	16 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Jan. 15 (12)	eL	6 08				(12) USCGS: 18 N 47 W, H.O. $5^h46{,}1^m$. Mid-Atlantic.
	F	6 20				
Jan. 16 (13)	iPP	0 07 57				(13) △ = 11500 km. USCGS: 31°,5 S 68°,5 W, H.O. $23^h49^m28^s$, near San Juan, Argentina, considerable damages.
	eSKS	0 14 20				
	eS	0 15 21				
	iSS	0 23 00				
	eL	0 37				
	ME	0 58		16	75	
	Mz	0 58		16	50	
	F	3 00				
Jan. 16 (14)	eL	19 18				
	F	19 26				
Jan. 20 (15)	i	0 02 44				(15) local shock near Aix-la-Chapelle.
Febr. 1 (16)	iP	3 27 29	—			(16) △ = 2300 km. Gerede (Turkey). iS after Bosch seismograph. Galitzin records cannot be disentangled. Bucarest: 40°,7 N 31°,5 E. USCGS: 41°,0 N 33°,0 E, H.O. $3^h22^m31^s$.
	iS	3 31 16				
	F	7 40				
Febr. 1 (17)	e	7 50				
	F	7 55				
Febr. 1 (18)	eL	21 35				
	F	21 50				
Febr. 2 (19)	iP	3 38 01	(—)			(19) △ = 2400 km. Bucarest: △ = 610 km. Leipzig: △ = 2000 km.
	iS	3 42 00				
	eL	3 44				
	F	4 05				
Febr. 4 (20)5	eL	23 55				
	F	0 20				
Febr. 5 (21)	iP	17 32 50				(21) △ = 9500 km. Disturbed by microseisms. USCGS: 23° N 121° E, H.O. $17^h20{,}0^m$, near southern Formosa.
	ePP	17 36				
	eS	17 43 30				
	eSS	17 49 30				
	eL	18 00				
	ME	18 09		22	40	
	F	19 00				
Febr. 6 (22)	e	17 15				
	F	17 25				
Febr. 7 (23)	eL	14 16				
	F	14 30				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Febr. 10 (24)	eH	12 14 23				(24) Bucarest: △ = 610 km. Basel: △ = 2050 km.
	eL	12 16				
	F	12 35				
Febr. 13 (25)	eL	20 42				
	MH	20 43		20	4	
	F	21 00				
Febr. 15 (26)	eL	5 50				(26) USCGS: 51° N 32° W, H.O. $5^h39{,}5^m$, North Atlantic.
	MH	5 52		16	13	
	F	6 20				
Febr. 16 (27)	e	11 55				
	F	12 05				
Febr. 19 (28)	iP	11 40 20	+			(28) △ = 2300 km. USCGS: 63° N 25° W, H.O. $11^h35{,}9^m$, southwest of Iceland. Basel: △ = 2640 km.
	iPP	11 40 43	+			
	iS	11 44 06				
	eL	11 45				
	F	12 10				
Febr. 19 (29)	eL	13 57				
	F	14 10				
Febr. 20 (30)	eL	11 20				
	F	11 50				
Febr. 20 (31)	iP	19 36 31	+			(31) △ = 2400 km.
	eS	19 40 29				
	eL	19 41 30				
	F	20 00				
Febr. 21 (32)	iP	0 30 30	+			(32) △ = 2400 km. Aftershock of (31). Uccle: △ = 21°,5.
	eL	0 35				
	F	0 50				
Febr. 21 (33)	iP	8 33 43				(33) Aftershock of (31)?
	eL	8 39				
	F	8 50				
Febr. 21 (34)	eS	11 52 00				(34) USCGS: 18°,3 N 105°,3 W, H.O. $11^h28^m45^s$, off cost of Colima, Mexico.
	F	11 55				
Febr. 21 (35)	eL	12 18				
	F	12 40				
Febr. 21 (36)	eL	14 30				
	F	14 38				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Febr. 21 (37)	iP	15 31 00	+			(37) △ = 2400 km. Aftershock of (31). Basel: △ = 2800 km.
	ez	15 31 23				
	eL	15 36				
	F	16 05				
Febr. 21 (38)	iz	17 38 13				
	eL	17 43 30				
	F	17 55				
Febr. 21 (39)	eL	20 23				
	F	20 35				
Febr. 21 (40)	e	21 07				
	F	21 10				
Febr. 22 (41)	e	0 43 30				
	F	0 52				
Febr. 22 (42)	e	2 23				
	F	2 30				
Febr. 22 (43)	e	16 17				
	F	16 23				
Febr. 23 (44)	iP	1 33 48				(44) △ = 2400 km. Aftershock of (31).
	eL	1 39				
	F	1 50				
Febr. 23 (45)	eL	6 35				
	F	7 00				
Febr. 23 (46)	e	13 09				
	F	13 25				
Febr. 29 (47)	iP	3 54 51	(—)			(47) △ = 10500 km. h = 200 km. USCGS: 14°,8 S 70°,7 W, H.O. $3^h41^m56^s$, Southeast Peru, h = 200 km. Uccle: △ = 86°,1, H.O. $3^h42^m21^s$, h = 190 km.
	epP	3 55 35				
	iz	3 58 36	+			
	ez	3 59 10				
	iz	3 59 40	+			
	ePP	4 01 24				
	iS'	4 05 06				
	ezH	4 06 50				
	F	6 00				
Febr. 29 (48)	iP	16 40 04	+			(48) △ = 8800 km. Indian Ocean. Bucarest: △ = 6880 km. Leipzig: △ = 8000 km. USCGS: 1°,5 N 77° E, H.O. $16^h28,1^m$. Riverview: △ = 8710 km. Uccle: △ = 79°,5.
	i(pP)	16 40 17	+			
	iPP	16 43 10	—			
	ePPPP	16 46 10				
	eS	16 49 50				
	eSS	16 55				
	eL	17 04				
	F	21 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
March 1 (49)	e	12 58				
	F	13 05				
March 5 (50)	eL	18 10				(50) USCGS: 8° N 127° E, H.O. $17^h16,1^m$, h = 200 km, off east coast of Mindanao.
	F	18 35				
March 6 (51)	eL	20 40				
	MH	20 45				
	F	21 10				
March 6 (52)	eL	21 39				
	F	22 00				
March 6 (53)	eLH	23 49				
	eLz	23 59				
March 7	F	0 15				
March 7 (54)	eL	21 25				
	F	21 50				
March 9 (55)	eLH	0 24				
	eLz	0 29				
	F	1 00				
March 9 (56)	iP	22 12 46				(56) △ = 5800 km. Fore-shock of (57). USCGS: 44° N 83° E, H.O. $22^h03,7^m$, Eastern Turkistan.
	iS	22 20 06				
	eL	22 30				
	MN	22 33		13	180	F lost in the next shock.
March 9 (57)	iP	22 22 00	—			(57) △ = 5800 km. USCGS: 44° N 83° E, H.O. $22^h13,0^m$, Eastern Turkistan.
	iS	22 29 22				
	eL	22 37				
	MN	22 41		18	>600	BCIS: 45° N 82° E, Mounts Altaï.
	ME	22 41		18	550	
	MZ	22 42 30		13	190	
March 10	F	2 35				
March 10 (58)	iP	6 52 11	+			(58) △ = 9000 km. Change of papers 7^h10^m—7^h16^m. USCGS: 42°,5 N 143°,5 E, H.O. $6^h40,0^m$, near southern coast of Hokkaido, Japan.
	ePP	6 55 16				
	eS	7 02 17				
	eL	7 18				
	eLz	7 23				
	MN	7 25 30		25	20	
	ME	7 25 30		25	25	
	F	9 05				
March 11 (59)	e	6 58				(59) F during change of papers 7^h11^m—7^h22^m.
March 12 (60)	e	14 05				
	F	14 20				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
March 15 (61)	e	0 08				
	F	0 15				
March 15 (62)	iP	5 12 30				(62) △ = 5200 km. Leipzig: △ = 5300 km.
	ePP	5 14 20				
	eS	5 19 22				
	eSS	5 23 02				
	eL	5 28				
	F	6 00				
March 15 (63)	e	6 16				
	F	6 30				
March 15 (64)	e	6 43				
	F	7 00				
March 15 (65)	e	9 40				
	F	10 05				
March 16 (66)	e	9 54				
	F	9 58				
March 18 (67)	eL	20 28				
	F	20 45				
March 21 (68)	iP	22 22 03				(68) △ = 8900 km. USCGS: 42° N 143° E, H.O. $22^h09{,}9^m$, near southern coast of Hokkaido, Japan.
	eS	22 32 05				
	eLH	22 48				
	Mz	23 00		22	6	
	F	23 30				
March 22 (69)	eP	0 57 43				(69) △ = 13000 km. h = 200 km. USCGS: 8° S 124° E, H.O. $0^h43{,}2^m$, h approximately 200 km, Flores Sea. Pasadena: 8°,5 S 123°,5 E.
	epP	0 58 39				
	iPP	1 02 32	+			
	iz	1 03 14				
	ez	1 03 32				
	iS	1 10 04				
	iN	1 11 14				
	i(PS)	1 11 46	+			
	eL	1 37				
	F	3 30				
March 27 (70)	e	15 30				
	F	15 50				
March 27 (71)	e	17 55				
	F	18 00				
March 27 (72)	eL	20 47				
	F	21 00				

No records from March 28 10^h42^m till March 29 7^h12^m.

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
March 29 (73)	e	13 50				
	F	14 10				
March 30 (74)	e	15 47				
	F	16 05				
March 31 (75)	iP′	3 11 27				(75) USCGS: probable epicenter 5°,5 S 136°,5 E, H.O. $2^h51{.}9^m$, west of New Guinea.
	(eL)	3 40				
	F	5 30				
March 31 (76)	eP	20 47 55				(76) △ = 9800 km. USCGS: 0°,5 S 80°,0 W, H.O. $20^h35^m05^s$, near coast of Ecuador, felt at Guayaquil and Quito.
	iz	20 48 04	+			
	eS	20 58 34				
	eL	21 13				
	F	22 00				
April 1 (77)	e	11 31				
	F	11 35				
April 5 (78)	eP	4 45 29				(78) △ = 2400 km. Uccle: △ = 22°. USCGS: 40°,5 N 31° E, Northwest Turkey. Felt at Istanbul.
	iS	4 49 24				
	eL	4 51				
	F	5 20				
April 5 (79)	eL	7 05				
	MN	7 09				
	F	7 20				
April 5 (80)	eL	16 34				
	F	16 45				
April 7 (81)	eP	13 44 54	+			(81) USCGS: epicenter approx. 12°,4 N 85°,7 W, H.O. $13^h32^m51^s$, north of Lake Nicaragua, h = approx. 100 km.
	e(pP)	13 45 37	+			
	ePP	13 48 06				
	eE	13 56				
	F	14 30				
April 9 (82)	eL	18 58				
	MH	19 02		28	7	
	F	19 30				
April 9 (83)	eL	19 45				
	F	20 00				
April 10 (84)	eL	4 03				
	MN	4 07		21	8	
	F	4 30				
April 13 (85)	e	0 24				
	F	0 37				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
April 16 (86)	eL	10 34				
	F	11 00				
April 17 (87)	eL	18 35				(87) F in next shock.
April 17 (88)	eL	19 04				
	MN	19 06		15	5	
	F	19 30				
April 19 April 20 (89)	eL	23 33				
	F	1 00				
April 22 (90)	eL	2 17				
	F	2 45				
April 23 (91)	iP′	11 16 54	—			(91) Wellington: 21°,5 S 180° E, H.O. $10^h57{,}8^m$, h = 390 km. USCGS: 22° S 177°,5 W h = 375 km, Tonga Islands.
	ipP′	11 18 29				
	F	11 20				
April 26 (92)	eP	2 09 03				(92) △ = 13000 km. (i) PP under paper-clip. Riverview: △ = 4080 km, H.O. $1^h54^m16^s$. USCGS: 1° S 135° E, H.O. $1^h54^m15^s$, north of Netherlands New Guinea, slight depth.
	eP′	2 12 25				
	(i)PP	2 13 50				
	iS′	2 19 40				
	ePS	2 23 20				
	eSS	2 29 30				
	eL	2 46				
	F	5 00				
April 26 (93	e	12 53				
	F	13 00				
April 27 (94)	eP	14 53 03				(94) △ = 13000 km. Same focus as (92)? Riverview: △ = 4255 km, H.O. $14^h37^m59^s$. USCGS: 0°,5 S 134°,5 E, slight depth, H.O. $14^h38{,}2^m$.
	iPP	14 57 48	+			
	eS′	15 03 40				
	iPS	15 07 20				
	iSS	15 13 40				
	eL	15 27				
	F	18 30				
April 27 (95)	e	19 40				
	eL	19 57				
	F	22 00				
April 28 (96)	eL	6 31				
	F	7 00				
April 29 (97)	e	2 46				
	F	2 50				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
April 29 (98)	eL	7 00				
	F	7 30				
April 29 (99)	e	10 03				
	F	10 10				
April 29 (100)	e	17 05				
	F	17 13				
May 3 (101)	e	20 06				
	F	20 15				
May 4 (102)	eL	7 50				
	F	8 05				
May 5 (103)	eL	6 45				
	F	7 05				
May 6 (104)	eP	0 22 30				(104) △ = 5300 km. Disturbed by strong microseisms. USCGS: 22°,5 N 45°,0 W, H.O. $0^h13^m45^s$, Mid Atlantic Ocean.
	eS	0 29 32				
	eL	0 34				
	MH	0 37		25	13	
	F	1 30				
May 8 (105)	eL	10 31				
	F	10 40				
May 8 (106)	eL	12 47				
	F	12 53				
May 9 (107)	eL	15 05				(107) USCGS: 3° N 74°,5 W, H.O. $14^h29{,}9^m$, depth approximately 100 km. Felt in Colombia.
	F	15 35				
May 10 (108)	e	18 10				
	F	18 15				
May 12 (109)	e	21 12				
	F	21 20				
May 15 (110)	eL	20 15				(110) USCGS: 4° S 143°,5 E, H.O. $19^h18{,}1^m$, near north coast of New Guinea.
	MH	20 32		22	3	
	F	21 30				
May 18 (111)	ePP	5 04 00				(111) Riverview: △ = 3560 km, H.O. $04^h43^m19^s$. JSA: 1°,5 S 151° E, H.O. $4^h43^m14^s$. USCGS: H.O. $4^h43{,}8^m$, foreshock of (112).
	eL	5 40				
	F	7 20				
May 19 (112)	eP′	0 38 30				(112) Wellington: 3°,5 S 155°,5 E, H.O. $0^h19{,}4^m$. h = 100 km? JSA: 5° S 151° E, H.O. $0^h19^m14^s$. USCGS: epicenter approximately 2°,7 S 153°,3 E, near New Ireland. Riverview: △ = 3520 km, H.O. $0^h19^m21^s$.
	eSS	0 56 30				
	eL	1 15				
	ME	1 17		40	20	
	F	3 30				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
May 20 (113)	eL	22 37				
	F	23 00				
May 20 (114)	iP	23 35 14				(114) △ = 2550 km. Uccle: △ = 22°.
	eS	23 39 25				
	eL	23 41				
May 21	F	0 10				
May 21 (115)	iP	0 20 18				(115) △ = 2300 km. Uccle: △ = 22°.
	eS	0 24 05				
	eL	0 26				
	F	1 00				
May 21 (116)	e	3 00				
	F	3 10				
May 21 (117)	ez	4 59 50				
	F	5 25				
May 23 (118)	eL	11 20				(118) USCGS: 51°,2 N 170°,6 W, H.O. $10^h38{,}5^m$, south of Aleutian Islands.
	F	12 00				
May 25 (119)	iP′	1 25 13	—			(119) Wellington: 21° S 178° W, H.O. $1^h06{,}5^m$, h = 600 km?
	ipP′	1 27 42	—			Riverview: △ = 3180 km, H.O. $1^h06^m41^s$, h = 0.10.
	iPP	1 28 43	—			USCGS: 22° S 179° W, H.O. $1^h06{,}5^m$,
	eSKKS	1 35 30				h > 600 km, south of Fiji Islands.
	eSS	1 47				
	eSSS	1 51				
	F	4 00				
May 25 (120)	eP′	13 17 20				(120) Wellington: 0°,0 S 151°,5 E, H.O. $12^h58{,}3^m$.
	eH	13 36				Riverview: △ = 3660 km, H.O. $12^h57^m57^s$.
	eL	13 51				USCGS: epicenter approximately 2°,5 S
	ME	13 56		37	190	152°,0 E, H.O. $12^h58^m03^s$, near New Ireland.
	F	16 30				
May 27	eP	23 57 24				(121) △ = 2700 km.
May 28	eS	0 01 39				Helwan: △ = 1500 km.
(121)	eL	0 04				Zürich: west coast of Asia Minor.
	F	0 30				Uccle: △ = 22°.
May 30 (122)	iz	10 08 22				
	ez	10 11 25				
	eL	10 38				
	F	11 00				
May 30 (123)	eL	18 25				
	F	18 35				
June 2 (124)	eL	3 10				
	F	3 30				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
June 2 (125)	eL	23 15				
	F	23 25				
June 3 (126)	iz	4 22 38				
	ez	4 33 54				
	eH	4 35 34				
	eL	4 15				
	F	6 00				
June 3 (127)	eL	7 43				(127) USCGS: 20° N 63° W, H.O. $7^h12^m13^s$, North of Leeward Islands, West Indies.
	F	7 55				
June 3 (128)	eL	12 28				
	F	13 05				
June 4 (129)	eL	14 12				
	F	14 35				
June 4 (130)	eL	20 15				
	M	20 25				
	F	21 00				
June 5 (131)	eL	1 27				
	F	1 40				
June 6 (132)	eL	4 46				(132) USCGS: 5° S 152° E, H.O. $3^h44{,}2^m$, near New Britain.
	F	5 30				
June 6 (133)	e	12 30				
	F	12 50				
June 7 (134)	eL	10 57				
	F	11 20				
June 8 (135)	e	11 17				
	F	11 22				
June 9 (136)	eH	21 05				(136) USCGS: 4° S 150° E, H.O. $20^h35{,}0^m$, east of New Guinea.
	eL	21 29				
	ME	21 34		35	14	
	MN	21 49		20	25	
	Mz	21 49		20	26	
	F	23 00				
June 10 (137)	e	2 04				
	F	2 06				
June 10 (138)	iH	14 42 00				(138) La Paz: △ = 4680 km. USCGS: possibly Caribbean region.
	eL	14 49				
	F	15 20				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
June 11 (139)	eL	20 03				(139) USCGS: epicenter approximately 0°,8 N 85°,8 W, H.O. $19^h18^m54^s$, off west coast of Ecuador.
	F	20 30				
June 12 (140)	eL	12 03				
	F	12 10				
June 15 (141)	eL	1 29				(141) Uccle: △ = 22°.
	F	1 40				
June 16 (142)	eL	5 00				(142) USCGS: H.O. $4^h17{,}2^m$. Possibly east coast of Honshu Island, Japan.
	F	5 30				
June 16 (143)	iP	22 04 22	+			(143) △ = 9500 km. USCGS: 19° N 105°,2 W, H.O. $21^h51^m34^s$, near coast of Colima, Mexico.
	(ePP)	22 07 40				
	eS	22 14 55				
	eSS	22 20				
	eSSS	22 24 30				
	eL	22 35				
	Me	22 46		14	16	
	Mz	22 46		14	13	
	F	23 40				
June 19 (144)	eL	20 15				
	eLz	20 19				
	Mz	20 24		16	4	
	F	20 40				
June 20 (145)	e	12 14				
	eL	12 55				
	Me	12 58		33	6	
	F	13 30				
June 21 (146)	eP′	11 18 00				(146) USCGS: 21°,5 S 169°,5 E, H.O. $10^h58{,}3^m$, Loyalty Islands region. Riverview: △ = 2260 km, H.O. $10^h58^m19^s$. Wellington: 22° S 169°,5 E, H.O. $10^h58{,}3^m$.
	iP′	11 18 05	—			
	eSS	11 40 50				
	(eL)	12 00				
	F	14 00				
June 25 (147)	iP	1 20 51				(147) USCGS: 14°,5 N 93° W, H.O. $1^h08{,}3^m$, off west coast of Guatemala.
	iP	1 21 03				
	eL	1 48				
	Me	1 58		20	3	
	Mz	1 58		20	2	
	F	2 30				
June 25 (148)	iP	4 21 (10)				(148) iP under paperclip. △ = 2450 km. Uccle: △ = 22°. CBIS: 37° N 28° E. USCGS: 39° N 29° E, H.O. $4^h16{,}3^m$, Western Turkey.
	iS	4 25 04				
	eL	4 26				
	F	6 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
June 25 (149)	iP	7 02 37				(149) △ = 2450 km. Aftershock of (148). Uccle: △ = 22°.
	eS	7 06 36				
	eL	7 08				
	F	8 00				
June 25 (150)	e	9 25				
	F	9 30				
June 25 (151)	iP′	14 37 12	—			(151) Wellington: 22°,5 S 169°,5 E, H.O. $14^h17{,}5^m$, h = 100-110 km. USCGS: 21°,5 S 170° E, H.O. $14^h17{,}4^m$, Loyalty Islands region. Pasadena: 21° S 170° E, H.O. $14^h17{,}3^m$.
	iP′	14 37 24	—			
	e	14 49				
	eLe	15 23				
	eLzn	15 30				
	Mn	15 37		25	11	
	F	17 00				
June 25 (152)	iP	17 52 07	—			(152) △ = 6500 km. Zürich: 1° S 20° W. La Paz: △ = 5050 km, H.O. $17^h42^m12^s$. USCGS: epicenter approximately 0°,4 S 24°,1 W, H.O. $17^h42^m12^s$, Mid Atlantic Ocean, SE of St. Paul Rocks.
	iS	18 00 14				
	eSS	18 04 00				
	eL	18 10				
	F	19 15				
June 28 (153)	e	3 10				
	F	3 25				
June 28 (154)	eL	6 15				(154) USCGS: 14°,5 N 93° W, H.O. $5^h31{,}8^m$, off west coast of Guatemala.
	F	6 50				
June 28 (155)	iP	8 11 23	+			(155) △ = 9200 km. La Paz: △ = 4450 km, H.O. $7^h58^m48^s$. USCGS: epicenter approximately 14°,5 N 92°,8 W, H.O. $7^h58^m52^s$, off west coast of Guatemala.
	iS	8 21 39				
	iSS	8 27 29				
	eSSSS	8 34				
	eL	8 39				
	Me	8 41		26	95	
	Mez	8 49		19	100	
	F	13 00				
June 29 (156)	eL	12 20				
	F	12 35				
July 1 (157)	eL	4 56				
	F	5 00				
July 2 (158)	iP	22 24 54				(158) △ = 9400 km. USCGS: 14°,5 N 93° W, H.O. $22^h13{,}4^m$, near coast of Guatemala.
	eS	22 35 25				
	eL	22 52				
	Me	22 55		25	1	
	F	23 30				
July 3 (159)	e	17 00				
	F	17 10				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
July 5 (160)	eL	9 49				
	F	9 55				
July 5 (161)	eL	10 50				
	F	11 35				
July 7 (162)	e	6 12				
	F	6 22				
July 10 (163)	eLz	6 32				
	F	6 40				
July 10 (164)	eL	17 05				(164) USCGS: 31° S 178° W, H.O. $15^h47,8^m$, depth slightly less than 100 km.
	Mz	17 15		23	2	
	F	17 55				
July 11 (165)	eP′	18 52 10				(165) Riverview: △ = 2410 km, H.O. $18^h32^m15^s$.
	eL	19 50				
	F	20 05				
July 12 (166)	e	8 25				
	eL	8 37				
	F	9 10				
July 12 (167)	eL	20 05				(167) No Z-record. USCGS: 44°,7 N 115°,2 W, H.O. $19^h30^m22^s$.
	F	20 30				
July 13 (168)	e	1 40				
	F	2 05				
July 13 (169)	eP	10 58 15				(169) △ = 9800 km.
	iS	11 08 53				
	eL	11 31				
	M	11 39				
	F	13 25				
July 15 (170)	eL	16 41				
	F	16 43				
July 16 (171)	eL	0 20				
	MH	0 23		23	2	
	F	1 00				
July 16 (172)	iP′	10 38 05	—			(172) USCGS: 22° S 175° W, H.O. $10^h19,1^m$, h = 450 km, south of Tonga Islands.
	F	11 10				
July 17 (173)	iP	10 59 59				(173) △ = 3200 km. Zürich: △ = 3050 km. USCGS: Probably east Central Turkey.
	eS	11 05 00				
	eL	11 09 00				
	F	12 40				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
July 17 (174)	e	17 12				
	F	17 15				
July 19 (175)	eP	10 34 00				(175) △ = 9800 km. USCGS: 35° N 143° E, H.O. $10^h21,4^m$, off east coast of Hunshu, Japan.
	eS	10 44 45				
	eSSS	10 54 30				
	eL	11 06				
	MH	11 16		22	115	
	Mz	11 16		22	90	
	F	14 00				
July 19 (176)	eL	18 49				
	F	19 05				
July 20 (177)	eL	0 15				
	F	1 00				
July 20 (178)	iP	10 42 22				(178) △ = 2550 km. Uccle: △ = 22°. Zürich: △ = 2060 km. According to the newspapers 1650 km from Belgrad, Asia Minor.
	eS	10 46 30				
	eL	10 49				
	F	11 20				
July 20 (179)	eP	20 20 00				(179) △ = 9400 km.
	ePP	20 23 22				
	eS	20 30 25				
	eL	20 50				
	F	21 35				
July 21 (180)	e	8 50				
	F	8 52				
July 21 (181)	e	10 25				
	F	10 32				
July 21 (182)	eL	19 38				
	F	20 10				
July 22 (183)	e	17 45				
	F	17 55				
July 23 (184)	e	11 15				
	F	11 35				
July 23 (185)	e	12 05				
	F	13 00				
July 24 (186)	e	8 40				
	F	9 15				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
July 27 (187)	iP	0 15 54	—			(187) △ = 8200 km. h = 100 km.
	ipP	0 16 12	—			Zürich: △ = 8500 km, Alaska.
	ePP	0 18 44				USCGS: 54° N 165° W, H.O. $0^h04{,}4^m$, h = approximately 70 km, southwest of Unimak Island, Aleutian Islands.
	ePPP	0 20 08				
	iS	0 25 19				Pasadena: 54° N 165°,5 W, H.O. $0^h04^m23^s$, h = 70 km.
	isS	0 25 59				
	eSS	0 30				F in next earthquake.
	eL	0 38				
	MN	0 41		35	27	
July 27 (188)	eL	2 32				
	MN	2 40		20	4	
	Mz	2 40		20	3	
	F	3 05				
July 27 (189)	iP	8 30 46				(189) △ = 8800 km.
	ePP	8 33 47				Uccle: △ = 78°.
	iS	8 40 41				USCGS: 12° N 93° E, H.O. $8^h18{,}6^m$, Bay of Bengal, near Andaman Islands.
	eL	9 00				
	MN	9 04		25	9	
	F	9 35				
July 29 (190)	e	23 10				
	F	23 35				
July 30 (191)	iP	4 05 06	—			(191) △ = 2200 km.
	iz	4 06 07				Uccle: △ = 19°, H.O. $4^h00{,}7^m$.
	(ez)	4 07 15				Zürich: △ = 1600 km.
	iS	4 08 49				
	eL	4 10 30				
	M	4 12				
	F	4 35				
July 30 (192)	e	16 02				
	F	16 10				
Aug. 1 (193)	eL	12 58				
	F	13 30				
Aug. 2 (194)	e	19 12				
	F	19 30				
Aug. 2 (195)	e	21 09				
	F	21 35				
Aug. 2 (196)	eL	23 30				
	MN	23 35				
Aug. 3	F	0 15				
Aug. 5 (197)	eL	13 48				(197) USCGS: 12°,5 N 87°,5 W, Nicaragua, off coast.
	F	14 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Aug. 6 (198)	eL	8 07				
	F	8 20				
Aug. 6 (199)	eL	17 32				
	F	18 00				
Aug. 6 (200)	eL	19 08				
	F	21 00				
Aug. 7 (201)	iP	3 38 53	+			(201) △ = 10800 km.
	iPP	3 42 43	+			USCGS: 17°,5 S 73°,5 W, H.O. $3^h25{,}3^m$, Peru, off coast.
	eS′	3 49 30				
	eS	3 50 20				
	ePS	3 51 35				
	eL	4 09				
	MH	4 17		22	30	
	Mz	4 21		18	34	
	F	6 30				
Aug. 7 (202)	eL	13 40				
	F	14 50				
Aug. 7 (203)	eL	19 32				
	F	20 00				
Aug. 8 (204)	eL	0 27				(204) USCGS: 18° S 74° W, H.O. $23^h38{,}2^m$, Peru, off coast.
	M	0 31				
	F	1 10				
Aug. 8 (205)	(iP′)	8 52 37				(205) △ = 12700 km.
	iPP	8 53 30	+			Riverview: △ = 3450 km.
	ePPP	8 56 00				La Paz: △ = 11600 km.
	ePS	9 03 00				Pasadena: 5° S 145° E, H.O. $8^h33{,}6^m$, New Guinea.
	eSS	9 10 00				
	eL	9 30				
	F	11 00				
Aug. 9 (206)	eL	4 44				(206) USCGS: 19°,0 N 67°,2 W, H.O. $4^h15^m26^s$, off northwest coast of Puerto Rico.
	ME	4 53		18	1	
	Mz	4 53		18	2	
	F	5 25				
Aug. 9 (207)	eP	17 41 27				(207) △ = 2800 km.
	eS	17 45 49				Uccle: △ 22°.
	eL	17 49				Zürich: △ = 2050 km, east of Crete.
	F	18 10				
Aug. 10 (208)	eP	2 04 13				(208) △ = 7900 km.
	eS	2 13 34				USCGS: epicenter approximately 51°,0 N 130°,7 W, H.O. $1^h52^m52^s$, off southwest coast of British Columbia.
	eL	2 26				
	MEz	2 36		18	28	
	F	5 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Aug. 10 (209)	(eZ)	11 09 00				(209) USCGS: probably New Guinea.
	eL	11 45				
	F	13 30				
Aug. 12 (210)	eL	9 53				
	F	10 15				
Aug. 13 (211)	eL	8 59				(211) USCGS: 50°,5 N 132° W, H.O. $8^h22,3^m$, off southwest coast of British Columbia.
	F	9 25				
Aug. 14 (212)	i(S)	11 27 16				(212) USCGS: 58°,5 N 153° W, H.O. $11^h07,5^m$.
	i(ScS)	11 28 12				
	F	12 00				
Aug. 14 (213)	eP	14 35 00				(213) △ = 10300 km. Riverview: 6250 km. H.O. $14^h21^m35^s$. USCGS: Probably Philippine Islands.
	eS'	14 45 31				
	eSS	14 52 30				
	eL	15 09				
	MN	15 15		24	16	
	F	16 00				
Aug. 15 (214)	eL	2 06				
	MH	2 11		20	11	
	F	2 45				
Aug. 15 (215)	iP	12 01 39				(215) USCGS: 13° N 143°,5 E, H.O. $11^h47,6^m$, depth approximately 100 km, Mariana Islands. Riverview: △ = 5150 km.
	iPP	12 06 05	—			
	iz	12 06 43	+			
	eL	12 41				
	F	13 30				
Aug. 17 (216)	eL	13 39				(216) No Z-record. Uccle: △ = 22° ca.
	F	13 55				
Aug. 17 (217)	iH	18 12 04				(217) No Z-record. Uccle: △ = 22° ca.
	eL	18 15				
	F	18 35				
Aug. 18 (218)	iP	10 45 25	—			(218) △ = 9100 km, h = 100 km? USCGS: 38° N 140°E, H.O. $10^h33,4^m$, h = approx. 200 km, Northern Hunshu, Japan. Pasadena: 38° N 140° E, H.O. $10^h33^m17^s$, h = 150 km.
	i(pP)	10 45 58	+			
	iS	10 55 29				
	e(sS)	10 56 14				
	eL	11 13				
	F	12 30				
Aug. 18 (219)	eL	20 08				
	Mz	20 16		19	4	
	F	21 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Aug. 20 (220)	eL	22 22				
	F	22 50				
Aug. 21 (221)	iP	20 24 29	(+)			(221) △ = 6500 km. La Paz △ = 4680 km. USCGS: 3° N 31° W, H.O. $20^h14,6^m$, Mid-Atlantic Ocean.
	eS	20 32 34				
	eL	20 41				
	F	21 10				
Aug. 23 (222)	eL	22 10				
	F	22 35				
Aug. 24 (223)	eZ	16 04 30				
	F	16 45				
Aug. 24 (224)	eP	23 50 08				(224) △ = 9100 km. USCGS: 15°,5 N 93° W, H.O. $23^h37,8^m$, h approx. 100 km, off southern coast of Cheapas, Mexico.
	ePP	23 53 30				
Aug. 25	eS	0 00 20				
	eL	0 16				
	ME	0 18		30	8	
	F	1 00				
Aug. 25 (225)	iz	12 44 18	—			(225) USCGS: 18° S 176° W, H.O. $12^h27,1^m$, depth approx. 250 km, north of Tonga Island. Wellington: 18°,5 S 176° W, H.O. $12^h24,9^m$, h = 100 km.
	iz	12 45 18	—			
	F	13 00				
Aug. 28 (226)	eL	11 05				
	F	11 30				
Aug. 30 (227)	eP'	1 33 36				(227) △ = 15800 km. Riverview: 2750 km, H.O. $01^h19^m16^s$, h = 0,01. USCGS: 17° S 168°,5 E, H.O. $1^h14,2^m$, New Hebrides Islands.
	iPP	1 36 41	+			
	iPKS	1 37 32	—			
	eL	2 23				
	F	3 30				
Sept. 3 (228)	eL	20 15				
	F	21 40				
Sept. 3 (229)	eL	23 12				
	F	23 20				
Sept. 5 (230)	eL	5 02				
	F	5 15				
Sept. 6 (231)	eL	13 49				
	F	14 45				
Sept. 11 (232)	eP	9 59 46				(232) △ = 12000 km. USCGS: 1° N 127° E, H.O. $9^h45,4^m$, west of Gilolo, Molucca Islands. Pasadena: 1° N 127° E, H.O. $9^h45^m25^s$.
	eZ	10 03 25				
	iPP	10 04 31	+			
	iSKS	10 10 27				
	iPS	10 13 31	—			
	eL	10 37				
	F	13 00				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Sept. 12 (233)	eL	3 26				
	F	4 00				
Sept. 14 (234)	ez	6 56 40				(234) Change of papers 7^h01^m till 7^h20^m. Christchurch: △ = 81° ca.
	eL	7 28				
	F	9 30				
Sept. 18 (235)	eL	0 17				
	F	0 35				
Sept. 18 (236)	eL	3 56				
	F	4 07				
Sept. 19 (237)	eL	13 44				(237) USCGS: 54° N 161° E, H.O. $13^h06,0^m$. Foreshock of (240).
	F	14 20				
Sept. 23 (238)	ez	3 30 38				
	F	3 32				
Sept. 23 (239)	e	9 56				
	F	10 15				
Sept. 23 (240)	iP	12 24 47	—			(240) △ = 8100 km. Riverview: △ = 9870 km. La Paz: △ = 14340 km. USCGS: epicenter approx. 53°,8 N 161°,2 E, H.O. $12^h13^m19^s$, slight depth, off southeast coast of Kamchatka.
	iS	12 34 17				
	eL	12 47				
	F	16 00				
Sept. 23 (241)	eL	17 30				
	F	18 25				
Sept. 24 (242)	eL	11 37				
	F	12 05				
Sept. 25 (243)	eL	3 24				
	F	3 30				
Sept. 25 (244)	eL	16 54				(244) USCGS: 54° N 161° E, H.O. $16^h15,7^m$. Aftershock of (240).
	ME	16 58		23	3	
	F	17 30				
Sept. 27 (245)	iP	16 33 53	+			(245) △ = 5200 km. Disturbed by microseisms. USCGS: 39° N 73° E, H.O. $16^h25,1^m$, southeast of Tashkent. JSA: 39° N 74° E, H.O. $16^h25^m08^s$. F in the next earthquake.
	eS	16 40 50				
	eSS	16 44 20				
	eL	16 50				
	MN	16 54		22	230	
	ME	16 56 30		15	140	
	MZ	16 56 30		15	185	
Sept. 27 (246)	eL	17 18				(246) Aftershock of (245).
	F	18 30				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Sept. 28 (247)	eL	18 15				
	F	18 25				
Sept. 30 (248)	iP	4 18 26	—			(248) △ = 2550 km.
	eS	4 22 30				
	eL	4 26 30				
	F	4 50				
Sept. 30 (249)	eL	5 36				
	F	5 45				
Sept. 30 (250)	eL	8 08				
	F	8 30				
Oct. 2 (251)	iP	17 34 05				(251) USCGS: 14°,5 N 90°,1 W, H.O. $17^h21,9^m$, h = 100 km. JSA: 14°,2 N 90°,1 W, H.O. $17^h21^m58^s$, h = 150 km.
	ipP	17 34 42				
	F	18 15				
Oct. 2 (252)	iP	20 41 50	+			(252)h △ = 8900 km. JSA: 43°,5 N 141°,7 E, H.O. $20^h29^m57^s$, h = 100 km.
	iPP	20 44 53	+			
	iS	20 51 51				
	eL	21 07				
	F	22 00				
Oct. 3 (253)	eL	16 58				
	MH	17 00		23	4	
	F	17 30				
Oct. 5 (254)	e	17 18 00				(254) F in the next earthquake.
Oct. 5 (255)	iP'	17 48 01	+			(255) △ = 16700 km. JSA: 19° S 172° E, H.O. $17^h28^m27^s$, h = 100 km. Pasadena: 22°,5 S 172° E, H.O. $17^h28^m27^s$, h = 120 km. Riverview: △ = 2400 km, H.O. $17^h28^m26^s$, h = 0,02.
	iPP	17 51 37	+			
	iPPP	17 54 56	+			
	eSS	18 10 30				
	eL	18 40				
	F	20 00				
Oct. 6 (256)	iP	2 39 14	—			(256) △ = 2200 km. Smyrna. USCGS: 39° N 27° E, H.O. $02^h34,7^m$. JSA: 40°,0 N 29°,3 E, H.O. $02^h34^m40^s$. Uccle: △ = 19°,5. Zürich: △ = 1720 km, westcoast of Anatolia.
	iS	2 42 54				
	eL	2 44 30				
	MN	2 46		16	750	
	ME	2 46		16	450	
	MZ	2 48		17	550	
	F	5 00				
Oct. 6 (257)	e	7 38				
	F	7 50				

Date 1944	Phase	Time	Direction	Period	Amplitude	Remarks
		h m s		s	μ	
Oct. 7 (258)	e	15 40				
	F	15 45				
Oct. 7 (259)	iP	21 38 54				(259) $\triangle$ = 2200 km. Uccle: $\triangle$ = 20°.
	eS	21 42 30				
	eL	21 44				
	M	21 45				
	F	22 10				
Oct. 11 (260)	eL	11 00				
	F	12 00				
						Recording was stopped from October 13, 1944 till June 1, 1945.