

The Seismological Bulletin
of
Weather Bureau of Tyôsen
For the Year
1933

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Compiled

By

Weather Bureau of Tyôsen,
The Government General of Tyôsen,
Zinsen, Tyôsen, Nippon.

1935



Preface.

Hitherto, the results of the seismological observations made at the meteorological observatories in Tyôsen (Corea), were compiled in "The Annual Report of the Meteorological Observatory of the Government-General of Tyôsen" published by this bureau. But, hereafter, the seismological report will be published once a year quite independent of the other meteorological reports. Now-a-days, in Tyôsen, slight attention is given to the study of earthquake owing to a minority of local shocks. Nevertheless, about 300 years ago, at an active period, frequent strong shocks were experienced all over the peninsula and inflicted severe damage to the buildings and human beings. Therefore, the seismological observation must not be neglected even in the present time of less activity.

Accordingly, in this report, while the local shocks occurred in the peninsula and its neighbouring seas are described with minute description of their seismometrical elements observed at this bureau and the other local observatories. Moreover, near and distant earthquakes which are observed at the above mentioned observatories, are also compiled in this report with the full description of the nature of them referring the seismological reports published by the Central Meteorological Observatory, Tôkyô, and the other foreign observatories.

All the results of seismological observation made at the local observatories in Tyôsen which are in charge of this bureau are described at the end portion of this report. The present report is compiled by K. Hayata, the seismological expert of this bureau.

S. I. Kunitomi,
Director,
Weather Bureau of Tyôsen.

February 13, 1935.

I. Introduction.

The present publication contains the results of the seismometrical observations made at Weather Bureau of Tyôsen, Zinsen, and the local meteorological observatories in Tyôsen in the year 1933. (The seismic reports of Tyôsen from the year 1915 to 1932 have been included hitherto in the Annual Report of the Meteorological Observatory of the Government General of Tyôsen.)

Symbols and Notations:-

- P Normal first phase (longitudinal waves).
PR_n Longitudinal waves n-times reflected at the earth's surface.
S Normal second phase (transverse waves).
SR_n Transverse waves n-times reflected at the earth's surface.
PS Waves changed from longitudinal to transverse oscillation on reflecting at the earth's surface.
L Long waves at the beginning of the surface waves.
M Largest motion in the surface phase.
C Tail or end portion.
PcP Longitudinal waves reflected at the earth's core.
ScS Transverse waves reflected at the earth's core.
F End of the discernible movement.
i Sudden or distinct commencement of a phase.
e Gradual or indistinct commencement of a phase.
AN N-S component of amplitude.
AE E-W component of amplitude.
AZ Vertical component of amplitude.
+ Displacement to the north, east and upwards.
- Displacement to the south, west and downwards.
J Epicentral distance.
(r) Remarkable earthquake; Major radius of the felt area is greater than 300km.
(m) Moderate earthquake; Major radius is less than 300km. and greater than 200km.
Time:- Time is referred to Greenwich Mean Time.

2. Seismological Stations in Tyôsen.

(1) Weather Bureau of Tyôsen, Zinsen.

Longitude λ ; 126° 38'E Latitude φ ; 37° 29'N

Height above mean sea level; 69.7m.

Geological nature of the ground; Grey Granite-gneiss.

Instruments and constants (approximate):-

Mkg; Mass of the pendulum. V; Magnification.

T ; Proper period of the pendulum.

$\frac{r}{T^2}$ mm/sec²; Coefficient of friction.

ϵ ; Damping coefficient.

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	96	5.3	0.009	5.9
	E-W	200	101	5.3	0.012	7.0
	Z	80	73	4.6	0.016	7.5
Omori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of low magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2
Omori's Tronometer	N-S	50	150	15	0.05	
	E-W	50	150	15	0.05	

(2) Keizyô Meteorological Observatory.

Longitude λ ; 126° 58'E Latitude ϕ ; 37° 34'N

Height above mean sea level; 85.5 m.

Geological nature of the ground; Granite.

Instruments and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	96	4.9	0.02	6.4
	E-W	200	96	5.0	0.02	6.9
Omori's Portable Seismograph	N-S	12	50	3.5	0.03	
	E-W	12	50	3.5	0.03	

(3) Taikyû Meteorological Observatory.

Longitude λ ; 128° 36'E Latitude ϕ ; 35° 52'N

Height above mean sea level; 50.5m.

Geological nature of the ground; Shale.

Instruments and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	70	4.3	0.01	3.4
	E-W	200	80	4.3	0.01	3.2
Omori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of low magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2



(4) Husan Meteorological Observatory.

Longitude λ ; $129^{\circ} 01'E$ Latitude ϕ ; $35^{\circ} 06'N$

Height above mean sea level; 12.5m.

Geological nature of the ground; Grey Granite-gneiss.

Instrument and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm. sec ²	ϵ
Omori's Seismograph	N-S	16	20	20	0.06	2

(5) Heizyô Meteorological Observatory.

Longitude λ ; $125^{\circ} 45'E$ Latitude ϕ ; $39^{\circ} 02'N$

Height above mean sea level; 51.0m.

Geological nature of the ground; Lower Daidô System.

Instruments and constants (approximate):-

Instruments	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm. sec ²	ϵ
C. M. O. Portable Seismograph	N-S	17.7	50	6.0	0.015	
	E-W	17.9	50	6.0	0.015	
Seismograph of low magnification	N-S	2.0	2	6.0	0.02	2
	E-W	2.0	2	6.0	0.02	2
	Z	0.2	2	2.0	0.03	2

3. The Earthquakes occurred in Tyôsen in the Year 1933.

The number of the earthquakes occurred in Tyôsen in the year 1933 amounted to 16, and 12 of them were felt by person in the epicentral region. These felt earthquakes were very local ones and many of them were not recorded instrumentally at stations due to the scant net of installation of seismographs in Tyôsen. The number of unfelt earthquakes amounted to 4 and their scales were very small also. These earthquakes are found in the next tables.

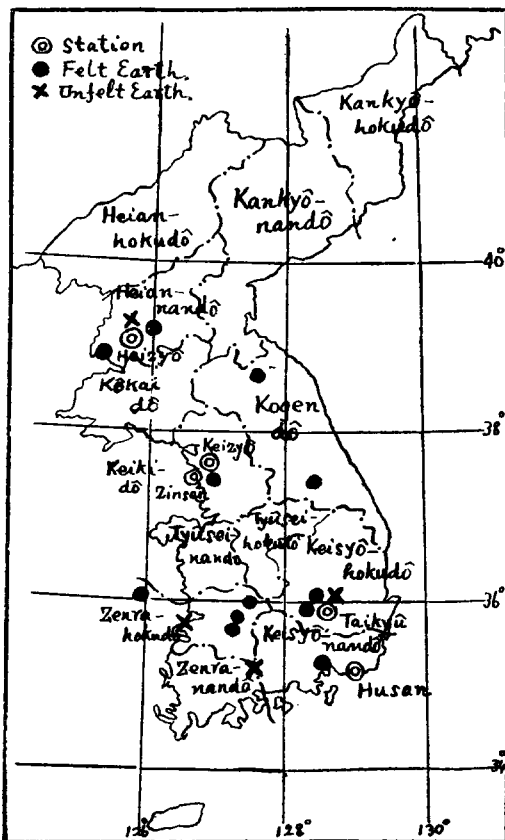
The felt earthquakes which occurred in
Tyôsen in the year 1933.

Date	G. M. T.	Epicentre	Intensity
Jan. 16	11 ^h 27 ^m	SW part of Waiyôgun, Kôgendô.	Moderate
Feb. 11	3 07	Heisyôgun, Kôgendô.	Rather strong?
Mar. 7	12 57	Vicinity of Taikyû.	Slight
Mar. 9	3 46	Vicinity of Taikyû.	Slight
May 21	4 37	Mosyugun, Zenrahokudô.	Moderate
May 23	2 31	Seitô, Zenrahokudô.	Slight?
May 24	14 15	Kéryôwan, Heiannandô.	Slight?

Date	G. M. T.	Epicentre	Intensity
July 12	16 ^h 18 ^m	Vicinity of Keizyû.	Slight
Sept. 2	15 29	Vicinity of Misau.	Rather strong
Nov. 20	14 18	Vicinity of Heizyô.	Slight
Dec. 15	20 59	Upper Valley of the River Bankei, Zeurahokudô.	Rather strong
Dec. 20	14 53	Upper valley of the River Bankei.	Rather strong

The unfelt earthquakes which occurred in
Tyôsen in the year 1933.

Date	G. M. T.	Epicentre
Mar. 3	1 ^h 19 ^m	Middle valley of the River Sensin.
Apr. 3	1 46	Vicinity of Heizyô?
Aug. 27	23 42	Vicinity of Taikyû.
Nov. 6	7 26	Middle coast of Zeurahokudô.



The map of distribution of the epicentres of earthquakes occurred in Tyôsen in the Year 1933.

4. Summary of the Earthquakes recorded in Tyôsen in the year 1933.

Summary of the readings of observations made at each station in Tyôsen in the year 1933 are tabulated in the following table for each earthquake and the readings made at several stations in Nippon and foreign countries corresponding to each earthquake are added to, which are abstracted from "Kisyô Yôran" (Monthly Report of Geophysics of Central Meteorological Observatory, Tôkyô), Preliminary Bulletin of Central Station of the Jesuit Seismological

Association and Bulletins of other foreign stations at hand.

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No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
1	Jan. 1	Zinsen	P	8 59 07.9	μ	μ	μ	s	s	s	m s 8 23.9?	km 7000?	Africa?
		Keizyô	eP	59 08.0							8 26.	6940	
		Taikyû	P?	59 38.3?							7 42.1?	6105?	
		Heizyô	P	59 54.0							8 03.4?	6500?	
		Amboina	P	8 56 10							5 53	4330	
		Batavia	Pz	58 35							8 04	6560	
		Zi-ka-wei	Pz	58 54									
		Medan	P	53 56							9 52	7680	
		Pasadena	iz	9 01 06									
		Florissant	iPz	07 25							5 55	4135	
		Hamburg	ez	07 52									
Ottawa	ee	14 06											
St. Louis	e	30											
2	Jan. 3	Taikyû	P	15 30 11.2							2 28.8?	1420?	(m) 190km. ENE off Miyako, λ=144.°0E, φ=40.°4N. Felt moderately in the epicentral region.
		Keizyô	P	30 14.6	± 50	- 70		16	13				
		Zinsen	eP	30 16.2							2 10.1?	1220?	
		Heizyô	P	30 13.5									
		Morioka		15 27 40.6	NE235	NW375	-192	1.0	1.0	2.8	25.3	138	
		Sapporo		27 52.2			-226			4.0	45.0	334	
		Tôkyô		23 35.4	±220	±200	± 40	7.8	6.2	4.0	1 09.0	630	
		Wazima		28 40.0	± 64	± 56	± 6				1 26.3	793	
		Kôbe		29 28.8	- 21	± 22	- 8			6.3	1 47.5	995	
		Kôti		29 37.	±150	±150				2.0	2 23.	1350	
		Hamada		29 44.6							2 56.3	1703	
		Hukuoka		30 14.1	-33	± 21		15.4	14.5		3 15.2	1912	
		Zi-ka-wei	ez	15 31 33				14			4 00.	2533	
		Saint Louis	e	37									
		Batavia	eP	37 26							7 27.	5900	
		Medan	e	44 06									
		Hamburg	e	16 11				21					
Württemberg	eL	16 11						19					
3	Jan. 3	Keizyô	P	22 43 03.0							1 37.6	900	The Nippon Sea. Deep earthquake.
		Zinsen	P	43 06.1							1 40.4	920	
		Pasadena	iPz	22 52 23									
4	Jan. 4	Keizyô	P	1 29 04.8							3 25.2	2020	(r) 270km. SE off Titi-zima, the Bonin Islands. λ=145.°0E, φ=25.°8N. Felt rather strongly at Titi-zima.
		Zinsen	P	29 06.8							3 31.9	2100	
		Heizyô	eP	29 21.9							3 56.6	2400	
		Titi-zima		1 25 22.6	+415	-425	-170	2.1	2.8	2.2	26.4	166	
		Hatizyô-zima		26 43.	+ 55	+ 45				1.7	1 24.	770	
		Tôkyô		27 17.0	±220	±120	± 36	10.4	8.3	3.5	1 54.0	1060	
		Siomisaki		27 20.5	- 5	+1		2.8	2.8		1 53.5	1055	
		Kôti		27 40.									
		Sendai		27 45.8	- 45	+ 89	+ 29	3.0	3.0	1.9	2 00.3	1123	
		Miyazaki		27 53.0	- 6	+ 5	- 4	13.0	12.0	14.2	2 45.8	1537	
Wazima		27 55.5	± 27	+ 28	± 2	1.9	1.9	1.1	2 17.8	1238			
Hamada		28 04.6							2 34.2	1472			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
5	Jan. 4	Naha	^h 1 23 25.5	^μ ± 20	^μ ± 15	^μ	^s 3.8	^s 3.5	^s	^{m s} 3 48.5	2293	
		Taihoku	29 29.0									
		Zi-ka-wei	Pz 1 29 33			- 23			15	3 40	2244	
		Patavia	Pz 33 29							6 54	5200	
		Medan	eP 33 36							7 01	5420	
		Saint Louis	ePE 38 23							10 50	9820	
		Florissant	iP 38 24									
		Ottawa	e 43 25									
		Keizyō	P 4 09 02.0							7 48.	6220	Alaska,
		Ziisen	eP? 09 11.8							7 41.1?	6090?	J.S. A. gives λ=145°W φ=60.°3N U. S. C. G. S. gives λ=143°W, φ=62°N.
		Sitka	iP 4 01 20							4 01	2450	
		Spokane	eP 04 29							5 18	3515	
		Pasadena	ePEZ 06 06							6 01	4245	
		Tucson	eP 06 23							5 54	4120	
		Madison	iP 06 57							6 11	4420	
		Florissant	iPEZ 07 13							6 20	4590	
		Saint Louis	ePE 07 19							6 29	4755	
		Little Rock	iP 07 35							6 27	4720	
		Ottawa	eP 07 36							6 30	4775	
		Buffalo	iP 07 40							6 45	5055	
Pittsburgh	eP 08 00							6 54	5215			
Georgetown	iP 08 11							6 57	5275			
Fordham	eP 08 12											
Woolstock	P 03 25											
Denver	eSN 11 30											
Zi-ka-wei	eZ? 21 53			+ 10				14				
Medan	e 23 35											
6	Jan. 7	Taikyū	e 4 09 45.0	+130	+ 92		13	13				
		Keizyō	P 09 51 4	+240	+190		14	13				
		Keizyō	P 09 54.7	+ 35	± 56		15	20				
		Ziisen	e 09 57.	+340	-260	+280	17.6	16.1	13.9			
		Iiisan	eP 09 57.6									
		Morioka	4 07 11.9	>±630	>±320		2.2	2.1		35.0	260	
		Sapporo	07 27.7			-542			3.5	53.3	373	
		Tōkyō	08 10.0	-450	-560	±600	6.5	5.4	4.3	1 11.	650	
		Wazina	03 12.6	-180	-170	± 34	2.8	3.1	3.1	1 21.6	746	
		Otomari	03 16.0	+625			22.2			2 27.	1400	
		Gihu	08 33.5	+105	-700	+320	4.3	15.0	11.0	1 33.0	900	
		Kōbe	08 53.4	-124	+109	± 48	15.5	16.0	12.3	1 42.5	945	
		Hamada	09 11.4	-327	+404	-271	15.2	14.2	14.1	2 06.2	1182	
		Kōti	09 16.0	±700	±500		17.0	17.0		2 07.	1190	
		Hukuoka	09 47.3	+186	- 30	±100	14.4	12.4	10.8	2 22.8	1343	
		Titi-zima	09 55.3		-110			10		2 11.3	1238	
		Naha	11 07.5	± 34	± 34	± 6	18.0	15.0	15.0	4 00.2	2442	
		Isigaki-zima	11 46.5							4 14.8	2632	
		Taihoku	11 58.	+300	+400	+155	15.0	17.2	16.5			
		Zi-ka-wei	Pz 4 11 10.	- 33	- 70	- 78	12	13	12	3 50	2389	

(r) 200km. NE off Miyako.
λ=144.°0E,
φ=40.°3N.
Felt rather strongly in the epicentral region.

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
					N	E	Z	N	E	Z				
7	Jan. 8	Amboina	P	4 15 11							6 48	5220	(m) 140 km. eastern off the mouth of the River Mabuti. λ=142.°3E, φ=41.°2N. Felt rather strongly in the epicentral region.	
		Medan	eP	15 18							7 56	6420		
		Batavia	P	16 36							9 33	8360		
		Pasadena	ePz	18 15							10 00	8800		
		Hamburg	ePz	18 39							10 17	9000		
		Württemberg	eP	19 06							10 40	9600		
		Florissant	iPNz	19 33										
		Little Rock	ePE	19 44										
		Taikyū	P	6 31 56.0										
		Keizyō	eP	32 03.										
		Keizyō	eP	32 03.2										
		Zinsen	eP	32 06.							2 30?	1430?		
		Morioka		6 29 27.8	+210	+215	±167	1.0	0.9	3.3	24.3	180		
		Sapporo		29 44.7	+208	+348	+125	3.1	2.1	2.1	41.8	310		
		Tōkyō		30 21.7	+140	±141		3.5	3.7		1 22.3	753		
		Wazima		30 30.6	± 35	± 42					1 33.6	360		
		Otonari		30 31.5							1 57.	1090		
		Gihu		30 44.4	+ 35	- 34	- 16	3.1	2.3	2.4	1 43.5	355		
		Osaka		31 18.1	- 68	- 75	+ 20	3.5	4.6	3.4	1 41.4	934		
Kōti		31 42.							2 30.	1430				
Hanada		31 38.8							2 57.3	1713				
Hukuoka		32 44.1							3 01.0	1760				
Zi-ka-wei	Pz	6 33 26			+ 11				16	4 40.	2244			
Pasadena	ePz	39 56												
Württemberg	eLNE	7 15 —												
8	Jan. 9	Zinsen	P	2 09 32.0							6 14?	4480?	Württemberg gives; λ=71°E, φ=36°N. (NE part of Afghanistan.)	
		Keizyō	P	09 33.1										
		Medau	P	2 03 32							6 37	5330		
		Zi-ka-wei	iPz	09 16			- 7				11			
		Hamburg	iPz	09 37	+ 35	+ 40	+ 15	7	7	7				
		Württemberg	iPZE	09 45.5		-4500	+11700				6 23	5100		
		Batavia	Pz	10 46							7 02	5440		
		Amboina	iP	12 10							8 34	7150		
		Pasadena	ePNzEz	15 48										
		Florissant	iz	19 41										
9	Jan. 10	Zinsen	eP?	3 12 47.7							1 35?	870?	NW off Amami-Oshima, Kagoshima Prefecture.	
		Keizyō	P	13 01.0							1 20	730		
		Zi-ka-wei	ez	3 10 36			± 9				8			
10	Jan. 15	Zinsen	P	18 10 05.6							7 01	5340	New Guinea. λ=147°E, φ=5°S.	
		Keizyō	P	10 26.5							6 44.3	5035		
		Florissant	ePE	18 06 09										
		Amboina	iP	06 17							3 23	2050		
		Batavia	P	09 30										
		Zi-ka-wei	ez	10 04			- 5				12			
		Medan	P	10 22							6 16	4700		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks
				N	E	Z	N	E	Z	m	s		
11	Jan. 16	Pasadena	iP ^{NEZ}	18 15 21									SW part of Waiyō-gun, Kōgendō Tyōsen. λ=127°28'E, φ=38°37'N. Felt rather strongly in the epicentral region.
		Württemberg	eL	19 03 —									
		Keizyō	P	11 27 09.8							16.6	124	
		Zinsen	P	27 13.7							19.7	146	
		Heizyō	P	27 15.1							20.7	153	
		Taikyū	S	28 18.5									
		Husan	eP	23 40.0									
12	Jan. 21	Zinsen	e	16 38 12.6									
		Keizyō	eP?	38 13.3									
		Heizyō	P	38 14.6									
		Württemberg	e	16 44 08									
		Hamburg	ex	46 28	+ 13	+ 6	+ 5	12	12	12			
13	Jan. 21	Zinsen	eP	19 34 01.2		± 70			16		10 50.4?	9820?	The Indian Sea. J. S. A. gives λ=59°E, φ=41°S U. S. C. G. S. ; λ=59°E, φ=37°S Württemberg : λ=56°E, φ=35.°5S
		Keizyō	eP	34 33.2							10 37.0	9530	
		Heizyō	eP	34 40.1									
		Taikyū	e	41 41.	± 58				16				
		Medan	P	19 29 06							7 39	6130	
		Batavia	P	30 31							7 30	5900	
		Malabar	eP	30 31							7 34	6010	
		Amboina	P	32 33							9 05	7760	
		Manila	iP	33 05							10 07	8930	
		Zi-ka-wei	ez	34 00			+ 39				10 29?	9232?	
		Württemberg	ez	34 26	+ 35	+ 23	+ 55	18	18	16		10600	
		Hamburg	ePz	34 40	+ 95	+280	+ 75	18	60	30		11100	
		Fordham	iP'	40 37									
		Ottawa	eP'	40 40								15300	
		Buffalo	iP'	40 47									
Wooldstock	iP'	40 49											
Florissant	iP'	41 04											
Little Rock	eP'E	41 07											
Saint Louis	iP'EN	41 14											
Madison	iP'	41 21											
Pasadena	iP'z	41 21											
Tucson	eP'	41 30											
Sitka	iP'	41 37											
Honolulu	iP'	44 00											
14	Feb. 3	Heizyō	P	22 16 20.4							3 52.7	2350	Northern off the island of Urupp, the Kurile Islands. J. S. A. gives : λ=151°E, φ=46°N.
		Taikyū	eP	16 25.3							3 52.0	2340	
		Keizyō	P	16 25.4							3 55.3	2375	
		Zinsen	P	16 27.9							3 57.0	2400	
		Zi-ka-wei	Pz	22 17 36			+ 15			20	5 10	3539	
		Batavia	i	22 16									
		Pasadena	iP	22 31							8 48	7370	
		Hamburg	ez	23 30			+ 18			24			
		Madison	iP	23 30							9 37	8340	
		Florissant	iP	23 46							9 57	8750	
		Saint Louis	iP	23 47							9 54	8670	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Württemberg	iPz 22 23 55	μ	u	μ	s	s	s	^m 9 59	^{km} 8300		
		Little Rock	eP 23 58							10 03	8850		
		Cincinnati	iP 24 00							10 03	8350		
		Fordham	eP 24 16							10 20	9190		
		Georgetown	iP 24 17							10 19	9170		
15	Feb. 4	Keizyō	P 6 23 12.2									WNW off Titi-zima, the Bouin Islands.	
		Zinsen	P 23 26.6										
		Pasadena	iP 6 29 35										
16	Feb. 9	Taikyū	P 3 59 00.9							1 44.0	950	(r) 200km. SW off the island of Hatisyō. Depth; 250km. λ=138.°8E, φ=31.°7N. Felt at Hatisyō and eastern part of Kwai-tō district.	
		Keizyō	P 59 23.8							2 04.3	1160		
		Zinsen	P 59 25.9							2 04 6	1170		
		Hatisyō-zima	3 57 44.7	-240	±300	- 70			1.7		39.4		292
		Siomisaki	57 52.0	+ 30	± 44	+ 8	4.2	3.3	1.5		46.3		343
		Hamamatu	57 55.3	- 31	- 54		3.1	3.1			50.7		376
		Tōkyō	58 03.	-200	+140	+ 50	6.5	4.5			52.0		336
		Kōbe	58 04.2	+ 36	- 37	- 13		5.0	4.6		54.7		406
		Titi-zima	58 19.2	- 65	+ 52	- 41	0.4	1.0	0.6		1 07.7		617
		Wazima	58 24.1								1 07.5		615
		Hamada	58 26.5								1 11.3		653
		Sendai	58 32.0	+ 78	- 29	± 20	0.7	1.5	1.7		1 17.4		703
		Hukuoka	58 34.3		- 17	- 7	-	3.3	2.9		1 26.1		791
		Sapporo	59 32.4	- 17	- 25		3.7	3.7			2 03.1		1151
		Pasadena	iPz 4 08 38										
17	Feb.13	Heizyō	eP 2 54 53.5									The Altai range. Württemberg gives λ=39°E, φ=45°N.	
		Keizyō	P 55 07.0							4 57.0	3205		
		Zinsen	eP 55 08.							5 01	3255		
		Taikyū	eL? 3 04 55.7										
		Husan	eL? 05 16.7										
		Zi-ka-wei	iPz 2 55 06			+ 45			9	9 40?	8222		
		Medan	eP 57 16										
		Hamburg	ePz 58 09	+ 60	+100	+ 50	8	11	11				
		Württemberg	P 58 30							7 14	5700		
		Batavia	P 3 01 15										
		Pasadena	i 02 43										
18	Feb.13	Zinsen	e 4 38 34										
19	Feb.13	Keizyō	P 23 10 55.7							3 55.0	2375	Eastern off the cape of Nosyappu, Hek-kaidō district.	
		Zinsen	eP 10 58.1							3 52.?	2340?		
20	Feb.19	Taikyū	P 4 29 06.6							2 21.8	1340	WSW off the island of Yonakuni. λ=122.°4E, φ=24.°2N.	
		Zinsen	P 29 16.7							2 34.0	1470		
		Keizyō	P 29 18.5							2 43.8	1568		
		Heizyō	P 29 34.7										
		Taihoku	iP 4 26 33.5	+750	-850	+130				17.3	129		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks		
				N	E	Z	N	E	Z					
		Zi-ka-wei	ez	h m s	μ	μ	μ	s	s	s	m s	km		
		Medan	i	4 27 38							1 28?	810		
		Batavia		32 30										
		Batavia		32 48										
21	Feb. 19	Zinsen	P	4 29 46.0							2 05.0	1640		
22	Feb. 21	Keizyo	e	18 17 24.4										
23	Feb. 23	Heizyo	eP	8 28 54.1										
		Zinsen	eP	29 13.	-149	± 90	± 48	48	43	25				
		Keizyo	P	29 16.0	± 81	± 57		26.0	22.0		10 49.0	9795	Damage at Iquique, Chile. J. S. A. gives $\lambda = 71^{\circ}W$, $\phi = 19^{\circ}S$ Depth: 100 km.	
		La paz	iP	8 10 28									410	
		San Juan	iP	16 38								5 47	4000	H; $8^{\circ}09'38''$
		Little Rock	eP	19 13								7 58	6400	U. S. C. G. S. gives $\lambda = 69^{\circ}W$, $\phi = 19^{\circ}S$ H; $8^{\circ}09'25''$
		Woodstock	iP	19 23								8 10	6630	
		Georgetown	iP	19 18								8 04	6515	
		Cincinnati	iP	19 27								8 07	6570	
		Fordham	iP	19 31								8 09	6610	
		Saint Louis	eP	19 32								8 16	6740	
		Florissant	iP	19 33								8 19	6300	
		Chicago	iP	19 42								8 26	6540	
		Buffalo	iP	19 46										
		Ann Arbor	iP	19 48								8 30	7015	
		Madison	iP	19 49								8 38	7170	
		Ottawa	iP	20 00								8 43	7270	
		Tucson	iP	20 04								8 33	7170	
		Denver	eP	20 19								8 51	7420	
		Pasadena	iP	20 24								9 17	7940	
		Berkeley	eP	21 02								9 48	8550	
		Ukiah	eP	21 14								9 49	8570	
		Spokane	P	21 28								9 58	8750	
Victoria		22												
Wurtemberg	iP	22 53		+100	+160	+175	24	21	21			11000		
Hamburg	Pz	23 07		+130	+240	+200	20	20	20			10700		
Amboina	iP	29 00												
Batavia	e	29 08												
Manila	eP	29 20												
Medan	P	29 30												
Zi-ka-wei		29 20									4 46	3040		
24	Mar. 2	Husan	P	17 34 02.5							2 43.0	1560	Strong earth-	
		Taiikyū	P	34 05.9	± 9091	± 4545		17.8	20.8		2 27.0	1400	quake off Sanriku,	
		Keizyo	P	34 16.6							2 31.7	1450	(230 km. off Ka-	
		Zinsen	iP	34 19.2	± 3700	± 7800	± 7500	11.9	19.6	18.5	2 39.0	1520	matsi, Iwate Pre-	
		Heizyo	eP	34 21.5							2 53.1	1670?	fecture.) $\lambda = 144^{\circ}7'E$, $\phi = 39^{\circ}1'N$.	
		Miyako		17 31 35								29.	215	Great damage a-
		Morioka		31 58.9	NW 14600	NE 16500	+10200	-2.5	2.6	2.4	35.3	262	266	long Sanriku coast
		Sendai		31 44.2	+22700	>+17900	-16650	3.4	3.4	5.0	35.8	266	due to the tidal	
		Sapporo		32 04.4	> ± 20000	> ± 12750								wave occurred
		Tōkyō		32 14.	+12700	-8800	-8300	5.0	4.3	3.8	1 00.	540	er the shock.	
		Wazima		32 30.2	± 2400	± 3000					1 17.8	708		
		Uamamatu		32 49.4	> ± 4000	> ± 4000					1 15.0	632		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Kobe	17 33 06.3	sw 3000	SE 4800	-5200	4.3	4.7	4.3	1 33.5	905	
		Kōti	33 26.7	±17500	±17500	±12500		2.6	2.4	2 01.	1130	
		Hamada	33 36.3							1 51.2	1652	
		Titi-zima	33 46.5	>±1900	>±1400	-3500			9.0	2 19.0	1310	
		Hukuoka	33 56.6	±2000	±2000	>±200	6.6	8.8		2 56.5	1705	
		Dairen	35 06.2	+220			15.5			3 29.	2070	
		Naha	35 39.5	±1350	±1500	±572	5.0	4.4	2.5	3 34.2	2123	
		Taihoku	36 12.5	>±1200	>±1200	±6500	25	25	15	4 23.4	2736	
		Zi-ka-wei	iPz 17 35 34	-903	+2976		15	16		4 00	2533	
		Ambonia	iP 39 16							6 50	5260	
		Honolulu	iP 40 18							6 53	5195	
		Medan	iP 40 25							8 35?	7160?	
		Batavia	iP 40 41							8 27	7020	
		Malabar	eP 40 54							8 32?	7100?	
		Victoria	P 41 20									
		Spokane	iP 41 52							9 00	7600	
		Apia	iP 41 54									
		Ukiah	eP 42 00							9 13	7860	
		Berkeley	iP 42 06							9 07	7740	
		Pasadena	iPz 42 31							9 57	8720	
		Denver	eP 43 04							9 01	7620	
		Hamburg	iP 43 05	>3700	>5000	3000	40	40	40			
		Württemberg	eP? 43 09.5							10 48?	9450	
		Madison	iP 43 31							10 19	9170	
		West										
		Bromwich	iP 43 31							10 36	9510	
		Strasbourg	iP 43 32							10 33	9450	
		Saint Louis	eP 43 40							10 44	9680	
		Chicago	iP 43 42							10 38	9555	
		Ann Arbor	iP 43 42							10 36	9510	
		Florissant	iP 43 45							10 47	9750	
		Ottawa	iP 43 48							10 37	9650	
		Denton, Texas	iP 43 49							10 49	9795	
		Buffalo	iP 43 54							10 32	9430	
		Little Rock	iP 43 55							10 53	9880	
		Cincinnati	iP 44 02							10 57	9970	
		Woodstock	eP 44 06							10 49	9795	
		Fordham	iP 44 13							10 45	9705	
		Georgetown	eP 44 13							10 19	10470	
		Tortosa	P 44 15							10 53	9995	
		Halifax	P 44 16							11 14	10350	
		La Paz	iP 50 08									
25	Mar. 2	Taikyō	P 18 29 26.0									(r) After shock of No. 24.
		Keizyō	P 29 30.4									λ=144°E, φ=39°N.
		Zinsen	P 29 33.1									
26	Mar. 2	Taikyō	P 19 44 48.4									(r) Ditto.
		Zinsen	P 44 49.2									λ=143.2°E, φ=39°N.
		Keizyō	P 44 58.2									
		Keizyō	L? 45 02.5									
27	Mar. 2	Taikyō	P 20 45 53.2									(r) Ditto.
		Keizyō	P 46 03.7		+125			12.7		2 43.8	1640	λ=144.6°E, φ=39.3°N.

No.	Date	Station	G. M. T.			Max. Amplitude			Period			Duration of P~S	Δ	Remarks
			h	m	s	μ	ν	α	N	E	Z			
		Titi-zima	19	33	43.1	-1100	+850	+550	1.5	1.5	2.5	51.0	378	
		Hatizyô-zuma	34	28		-244	+225				3.4	1 13	670	
		Tokyô	34	50.9		+270	-210					1 38	900	
		Hamamatu	34	51.0		+ 54	- 72		2.7	3.3		1 21.4	744	
		K'iti	34	52.3		± 80	±110	± 40	8.5	8.5	8.5	1 38	900	
		K'abe	19	34	53.2	-112	-183	-145	3.9	4.5	3.0			
		Hannada	35	10.2		+ 25	+ 17		2.9	4.1		1 49.3	1013	
		Hukuoka	35	11.2		- 44	- 77	- 93	3.4	3.4	5.6	1 58.1	1101	
		Akita	35	32.3		-455	-325	-130	3.5	3.7	2.8	2 17.2	1292	
		Sapporo	36	08.3		-120	+188			3.9		2 42.0	1550	
		Wazima	36	14.0		± 80	± 81	± 16	3.1	3.0		1 54.2	1062	
		Taihoku	36	15.9		+ 50	-120		5.3	5.3		2 47.4	1614	
		Dairen	36	42.1								3 14.7	1807	
		Palau	36	47.0								8 13.6	1896	
		Zi-ka-wei	iPz	19	36	14		- 30			9	2 56	1622	
		Amboina	iP	38	18									
		Medan	e	40	15							6 04	4490	
		Batavia	iP	40	22							6 15	4650	
		Malabar	iP	40	24							6 19	4760	
		Hamburg	iPz	44	44	9		6	15		16		8400	
		Württemberg	iPz	45	02							9 43	9100	
		Ottawa	e	49	55									
		Little Rock	e	49	56									
		Pasadena	iS	53	54									
54	Mar. 12	Keizyô	eP	5	09	07.3						2 27.2	1400	After shock of No. 24
		Zinsen	eL	12	11									
55	Mar. 17	Keizyô	P	16	01	23.4	- 10	± 19	9.8	13.0		4 54.1	3155	The Aleutian Islands
		Heizyô	eP	01	22.2							4 54.0	3155	λ=168°E, φ=51°N.
		Zinsen	P	01	41.1							5 00.6	3250	J. S. A. gives
		Taikyû	eP?	03	22.7									λ=160°E, φ=56°N. (Kamitchatka)
		Sitka	iP	16	02	15						5 28	3675	
		Zi-ka-wei	iPz	02	32			+ 34			12	6 12	4589	
		Honolulu	eP	04	03							6 22	4630	
		Pasadena	iP	16	05	14						7 58	6410	
		Tucson	eP	05	56							8 30	7015	
		Amboina	i	06	02									
		Saint Louis	eP	06	25							9 05	7700	
		Florissant	iP	06	28							8 59	7570	
		Ottawa	eP	06	30							8 59	7570	
		Buffalo	iP	06	34									
		Hamburg	iP	06	36			53		20			7800	
		Cincinnati	iP	06	42							9 11	7820	
		Little Rock	iP	06	42							9 10	7800	
		Medan	i	06	46									
		Württemberg	iP	07	03.5							9 28	8200	
		Georgetown	eP	07	10							9 25	8100	
56	Mar. 17	Keizyô	eP	19	38	11.0	± 50	± 50	16.0	16.0		4 07.8	2540	Mindanao.
		Taikyû	eP?	38	40.7									λ=128°E, φ=7°N.

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
					N	E	Z	N	E	Z				
69	Apr.23	Taikyū	eP	h m s 6 09 15	μ	μ	μ	s	s	s	m s	km	Near the island of Kos, Asia Minor. λ=26.°51', φ=36.°5N. Destructive at the island of Kos and on main land of Asia Minor. H: 5 ^h 57 ^m 18 ^s Depth; 50km.	
		Zinsen	eP	09 15.8							9 36.1	8320		
		Keizyō	P	09 18.8							9 32.2	8220		
		Ravensburg	eP	6 01 32							3 21	2050		
		Württemberg	iP	01 43.0							3 22	2100		
		Hamburg	eP	02 13	170	150	80	11	10	10	3 54	2420		
		Ottawa	eP	09 04							9 24	8060		
		Melan	e	09 07										
		Fordham	eP	09 15							9 30	8200		
		Buffalo	iP	09 20							9 40	8390		
		Georgetown	eP	09 25							9 56	8710		
		Cincinnati	iP	09 53							10 58	9995		
		Madison	eP	09 54							10 09	8970		
		Saint Louis	eP	10 03							10 23	9250		
Manila	iP	10 08							11 59	11450				
Batavia	e	10 13												
Sitka	iP	10 13							9 54	8670				
Little Rock	eP'x	10 29							10 50	9820				
70	Apr.23	Taikyū	P	7 16 38.6							1 42.0	940	(r) After shock of No. 24. λ=143.°61', φ=39.°7N.	
		Keizyō	P	16 48.2	± 55	+ 70		12.0	12.0					
		Zinsen	eP	16 51.3	- 47	- 49	+ 94	11.2	11.2	12.8				
		Keizyō	P	17 00.6										
71	Apr.23	Taikyū	P	8 28 56.5									Ditto. λ=143.°3E, φ=39.°4N.	
		Keizyō	eP?	29 08.2							2 22.0	1240		
		Zinsen	eP	29 11.3										
72	Apr.27	Keizyō	eP	2 45 32.8	+ 72	±165		13.0	14.0		7 39.0	6050	Alaska. λ=148.°W, φ=68°N. J. S. A. gives λ=148.°8W, φ=60.°7N. H=2 ^h 36 ^m 18 ^s U. S. C. G. S. gives λ=150°W, φ=61°N. H=2 ^h 36 ^m 18 ^s Strong at Seward and Anchorage, Alaska. Numerous after shocks.	
		Zinsen	eP	45 32.9	-173	-126	±382	12.3	12.3	13.8	7 42.6	6120		
		Keizyō	P	45 33.1							7 23.5	5855		
		Taikyū	P	45 38.2							7 43.3	6120		
		Sitka	P	2 38 17										
		Spokane	iP	41 18										
		Saskatoon	P	41 41							4 38	2990		
		Berkeley	eP	41 56							4 52	3125		
		Ukiah	eP	41 58							5 03	3230		
		Pasadena	iP	42 52							5 21	3565		
		Denver	ePE	43 02							5 26	3640		
		Tucson	iP	43 33							6 04	4295		
		Honolulu	iP	43 45							6 07	4350		
		Chicago	iP	44 00							6 16	4520		
		Florissant	iP	44 05							6 24	4665		
		Saint Louis	iP	44 06							6 25	4685		
		Ann Arbor	iP	44 06										
		Ottawa	iP	44 20							6 39	4960		
		Little Rock	iP'x	41 23							6 44	5035		
		Woodstock	iP	44 54										
Georgetown	iP	44 55												
Fordham	iP	44 58							7 04	5400				
Weston, Mass.	eP	45 05							6 58	5295				
Halifax	P	45 13							7 14	5580				

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Württemberg	iP	2 47 14	μ 48	μ 39	μ 78	s 17	s 17	s 17	9 08	7800	
		San Juan	P	47 25									
		Tortosa	iP	47 56							9 42	8430	
		Manila	iP	48 03							9 39	8375	
		Amboina	i	49 01									
		La Paz	iP	49 53									
		Medan	e	50 28									
		Batavia	e	53 33									
73	May 1	Keizyô	P	18 34 19.1							3 44.0	2245	Near the island of Etorohu, the Kurile Islands.
		Zinsen	eP	34 22.8							3 46.7	2270?	
74	May 1	Keizyô	P?	18 57 13.1									Ditto.
		Zinsen	eI?	19 04 31.5									
75	May 1	Zinsen	eP	19 55 22.0							3 27.1	2040	Southern off the island of Etorohu, the Kurile Islands.
		Keizyô	P	55 23.1							3 48.0	2290	
		Kusiro		19 52 04.8	-380	-260		3.8	2.0		47.1		Felt slightly at Kusiro & Nemuro, rather strongly at Syana.
		Sapporo		52 41.0	±173	-248	-96	3.2	3.2	3.6	59.1	439	
		Akita		53 13.4	+68	+69		2.7	2.7		1 35.9	860	
		Sendai		53 18.0	-32	+41	+17	1.4	1.3	1.3	1 38.0	900	
		Tôkyô		53 54.7	-22	-26					1 59.0	1110	
		Wazama		53 57.0							2 12.4	1244	
		Oosaka		54 28.5	+13	+8	+6	3.2	3.4	2.4	3 33.6	2116	
		Hamamatu		54 50.9							3 03.4	1784	
		Hamada		54 58.4							3 04.8	1798	
		Titi-zima		55 26							3 05	1800	
		Hukuoka		55 26.3							3 49.5	2313	
		Pasadena	iP	20 02 12									
		Hamburg	iPz	02 59	13	15	12	17	30	17			
		Württemberg	eP	03 22									
		Saint Louis	eP	03 24							10 07	8930	
		Florissant	ePE	03 26							10 05	8890	
76	May 3	Zinsen	eP	23 34 23.1							4 36	2905	The River Daidaku-sui, Formosa.
		Keizyô	P	34 27.0							4 30	2825	
77	May 8	Keizyô	eI	11 43 05.0									Mexico. J. S. A. gives λ=101.°2W φ=16.°3N. Depth 100km H=10 ^h 33 ^m 50 ^s
		Zinsen	eI?	35 03									
		Tucson	iP	10 37 50							3 25	2025	
		Little Rock	iPE	38 03							3 35	2135	
		Pasadena	iP	38 46							4 17	2650	
		Saint Louis	eP	38 48							4 14	2610	
		Denver	ePN	38 49							4 10	2560	
		Florissant	iP	38 51							4 20	2690	
		Chicago	iP	39 17									
		Madison	iP	39 31							4 38	2930	
		Berkeley	eP	39 39							4 53	3140	
		Ann Arbor	eP	39 42							5 12	3420	
		Georgetown	iP	39 54							5 01	3255	
		Buffalo	iP	40 10							5 10	3385	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Fordham	iP	10 ^h 40 ^m 20 ^s	μ	μ	μ	s	s	s	5 23	3585	
		San Juan	iP	40 20							5 24	3605	
		Ottawa	eP	40 37							5 31	3790	
		Burlington	iP	40 50							5 25	3620	
		Sitka	iP	42 17							7 01	5340	
		Weston, Mass.	eS	46 30									
		Hamburg	eP	46 37									
		Württemberg	eP	46 45								10000	
		Honolulu	S	50 14									
78	May 12	Keizyō	e	16 21 06.6									
		Zinsen	eL	24 54									
		Württemberg	e	16 53									
79	May 16	Zinsen	eP	1 20 06.9							6 12.7	4460	North Sumatra, Württemberg gives λ=97°E. φ=5°N. H=1 ^h 12 ^m 15 ^s
		Taikyu	eP	20 12.7							6 10.6	4420	
		Heizyō	eP?	20 26.1							5 57.5	4175?	
		Keizyō	L	34 10.9	+ 64				13.7				
		Medan	iP	1 13 23							39	340	
		Batavia	iP	16 18							3 03	2570	
		Amboina	P	19 03							5 13	3600	
		Hamburg	ePz	24 52									
		Württemberg	eP	24 55							10 23	9250	
		Pasadena	e	31 02									
		Saint Louis	e	35 15									
		Florissant	eN	35 25									
80	May 19	Zinsen	eL	19 08 32									The Atlantic Ocean J. S. A. gives λ=14.°3'W, φ=1.°9'S H=17 ^h 58 ^m 02 ^s Württemberg gives λ=16.°5'W, φ=0.°5'N.
		Keizyō	eL	09 00.4									
		Tortosa	iP	18 06 14							6 43	5015	
		San Juan	P	07 26							7 37	6310	
		Württemberg	eP	07 28.5	52	36	83	16	16	16	7 38	5900	
		Hamburg	ePz	07 58	55	60	11	14	14	14	8 08	6600	
		Saint Louis	eP	08 12							11 57	11400	
		Fordham	eP	09 04							9 07	7740	
		Georgetown	iP	09 04							9 21	8020	
		Ottawa	eP	09 22							9 16	7890	
		Florissant	eP	10 14							9 55	8690	
		Little Rock	eP _N	10 20							10 01	8810	
		Pasadena	ez	16 04									
81	May 21	Taikyū	P	4 37 25.1									
82	May 21	Zinsen	eP	11 58 26.9							2 58.6	1730	SSE off the island of Itaziyō.
		Keizyō	P	58 33.3							3 00.4	1790	
83	May 22	Taikyū	eP	20 46 40.0									Hyūga-nada, Miyaza- ki Prefecture. λ=131°8'E, φ=31.°9'N. Felt at southern coast of Kyūsyū district.
		Keizyō	P	47 39.4									
		Zinsen	eP?	47 48.6									
84	May 23	Taikyū	eP	16 37 52.9							1 12.6	666	Ditto.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks			
				N	E	Z	N	E	Z						
90	June 7	Zinsen	P	h m s	μ	μ	μ	s	s		2 34.0	1470			
		Taikyū	eP	59 53.5											
		Keizyō	eP?	12 00 07.2		- 81				16.0		1 52.?	1042?		
91	June 8	Heizyō	P	18 13 36.3										(r)180km. ENE off Miyako, Iwate Prefecture, λ=144.°0E, φ=40.°2N. Felt in eastern part of Tōhoku, southern part of Hokkaidō, and a part of Kwantō districts.	
		Taikyū	P	13 56.1								2 29.1	1421		
		Keizyō	P	14 04.5		+ 36				16.0					
		Zinsen	eP	14 06.0								2 38.6	1520		
		Urakawa		18 11 20.6	±470	±460		3.1	2.0			27.3	202		
		Miyako		11 22	-600	-540		1.0	1.0			26	193		
		Morioka		11 26.1	NE±130	NW±600	- 83	1.5	1.4	1.5		31.7	235		
		Sendai		11 43.3	-256	-237	-108	3.5	3.3	2.8		44.7	332		
		Tōkyō		12 12	+ 80	- 75		4.8	6.0			1 00.6	546		
		Wazūma		12 23.2	+ 45	± 31	± 9					1 16.1	691		
		Hamamatsu		12 30	± 20	± 20		4.0	4.0			1 39.0	910		
		Osaka		12 53.3	+ 28	+ 25	- 6	4.7	5.3	2.8		2 09.5	1215		
		Kōti		13 23											
		Titi-zima		13 47								2 17	1290		
		Hukuoka		13 50.3								2 51.7	1657		
		Tōhoku		16 02.7								4 30.3	2830		
		Pasadena	ePz	18 19 30											
Saint Louis	eP	21 54								12 06	11625				
Hamburg	iPz	22 44	12	15		7	21-30	21-30	18						
Württemberg	eP	23 07								10 16	9200				
Florissant	iPz	23 25								10 35	9490				
92	June 12	Taikyū	eP	21 11 01.9										(r) Kisen-numa, Miyagi Prefecture, λ=141.°7E, φ=38.°8N. Felt in all Tōhoku, Southern part of Hokkaidō, and Small part of Kwantō districts.	
		Heizyō	P	11 10.3											
		Keizyō	P	11 13.8											
		Zinsen	eP	11 17.4											
		Sendai		21 08 40.0	-840	-660	-161	3.7	3.9	1.2		12.2	91		
		Akita		08 50.5	-1010	±1180	-760	3.1	3.5	2.1		22.3	165		
		Tōkyō		09 20.0	±225	±119		3.8	4.3			57	423		
		Sapporo		09 24.8	- 60	+ 73			2.0			56.3	418		
		Wazūma		09 26.4	± 48	± 34						1 27.0	800		
		Hamamatsu		09 42.9	+ 33	+ 41		2.0	2.0			1 08.0	620		
		Osaka		10 00.5	- 69	± 58	+ 14	3.9	4.3	3.1		1 36.7	837		
		Hamada		10 31.0								1 46.6	986		
		Kōti		10 41	± 20				5			2 05.0	1170		
		Hukuoka		11 03.9								2 11.9	1239		
		Titi-zima		11 17								1 55	1070		
		Pasadena	eZ	21 20 00											
		Württemberg	eP	20 42									9400		
93	June 13	Taikyū	P	20 35 39.4							2 31.1	1441	(r) 170km eastern off the mouth of the River Naburi, Aomori Prefecture. λ=143.°7 φ=40.°7N. Felt in all part of Tōhoku and southern part of Hokkaidō.		
		Heizyō	P	35 51.8							2 37.3	1510			
		Keizyō	P	36 44.0							2 36.?	1490?			
		Zinsen	eP	36 47.7											
		Urakawa		20 34 03.3		±562				2.1		18.3		140	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Morioka	20 34 14.0	NE660	ES700	-320	1.3	1.3	1.5	24.1	179	
		Sapporo	34 19.1	±311	-489	+198	2.8	2.0		37.2	277	
		Akita	34 21.4	-1950	-1900	-1046	2.0	2.4	1.9	37.0	275	
		Tōkyō	35 08	+275	+250	+143	3.3	2.2	3.5	1 25	780	
		Ootomari	35 09.5							1 40.5	925	
		Wazima	35 10.8	± 75	+103	± 18				1 16.2	692	
		Hanama'u	35 43.0	- 58	+ 73		2.6	2.6		1 09.1	631	
		Oosaka	35 47.7	± 83	- 70	- 25	3.8	4.0	2.6	1 49.9	1019	
		Hamada	36 14.9							1 53.8	1058	
		Kōti	36 13							2 17	1290	
		Hukuoka	36 38.0							2 53.4	1464	
		Taihoku	38 52.7							4 22	2720	
		Pasa'ena	eP 20 45 21							9 47	8530	
		Hamburg	ePz 45 32							9 50	8200	
		Württemberg	eP 45 57							10 08	9100	
		Florissant	ePz 46 22							10 53	9830	
		Saint Louis	eS 56 56									
94	June 13	Zinsen	e 22 51 47									
		Sitka	iP 22 21 59							2 05	1170	Alaska.
		Saskatoon	P 25.4							4 30	2800	J. S. A. gives
		Pasadena	iP 26 39							5 28	3675	λ=149°W, φ=16°N.
		Florissant	ePz 27 46							6 28	4735	
		Saint Louis	eP 27 50							6 07	4350	
		Ottawa	eP 28 08							6 37	4910	
		Buffalo	iP 28 12									
		Fordham	iP 28 40							7 04	5400	
		Georgetown	iP 28 42							7 06	5440	
		Hamburg	ePz 30 29									
		Württemberg	eP 31 04							9 01	7650	
95	June 18	Taikyō	P 21 40 19.6							2 08.5	1205	(r) 100km. eastern
		Husan	P 40 28							2 07	1190	off Kinkasan, Miyagi
		Keizyō	P 40 30.2	+326	-470		13.0	15.0		2 21.0	1330	Prefecture.
		Zinsen	P 40 34.1	±330	±950		13	23		2 19.0	1310	λ=142.°8E,
		Keizyō	P 40 53.0							2 26	1390	φ=38.°5N.
		Sendai	21 37 56.1	-13100	-8620	+10200	3.5	3.4	4.7	13.9	103	Felt from Southern
		Morioka	38 06.5	sw15700	se8300	-8700	2.2	2.2	2.4	23.6	176	part of Hokkaidō to
		Akita	38 24.9	+25750	+16900		2.4	2.5		35.6	265	eastern part of Ty-
		Tōkyō	38 33.0	-2500	-200	-2125	3.3	3.3	4.3	42.7	324	ōbu districts.
		Wazima	38 40.5	+813	+570	± 82				1 05.6	596	
		Sapporo	38 49.5	±5650	-3000	+760	3.2	2.6		57.0	423	
		Hamamatu	38 59.9	-583	-527		2.8	2.8		1 04.6	586	
		Oosaka	39 15.8	±610	-1000	-256	4.0	4.0	2.3	1 26.3	793	
		Ootomari	39 38.0	- 58	+175		3.9	3.5		1 26.5	795	
		Kōti	39 39.6	±1000	±800		2.6	2.6		1 48	1000	
		Hamada	30 47.6	- 71	+ 47		12.0	11.6		1 46.3	983	
		Titi-zima	40 09							2 00	1120	
		Hukuoka	40 12	-1200	+1300	±1800	17.3	19.5	17.8	2 17	1290	
		Dairen	40 22.0	+ 20			21.0			3 15.4	1914	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
96	June 24	Naze	^h 21 ^m 40 ^s 59.3	^μ + 6	^μ + 11	^μ + 4	^s 15.2	^s 16.5	^s 18.2	^m 2 ^s 54.3	1683		
		Taihoku	42 32.6	±850	±400	±230	20.5	16.0	13.6	4 00	2440		
		Palau	43 10.3							5 16.5	3493		
		Amboina	iP 21 46 07							6 17	4720		
		Medan	P _N 46 43								6020		
		Honolulu	iP 47 00							7 37	6010		
		Batavia	iP _Z 47 07							7 39	6110		
		Sitka	iP 47 08							11 32	10775		
		Pasadena	iP 49 24							9 34	8310		
		Ukiah	e 49 00							9 00	7600		
		Hamburg	iP _Z 49 42							9 41	8200		
		Württemberg	iP 50 04.5	127	93	205	17	17	16		9250		
		Saint Louis	iP 50 29							10 45	9705		
		Florissant	iP _Z 50 31							10 44	9680		
		Ottawa	eP 50 34							10 45	9820		
		Buffalo	iP 50 38							10 50	9820		
		Georgetown	iP 50 58										
		Zinsen	eP 22 03 19	-480	±230	+280	16	14	14	7 15	5600	Sumatra, Batavia gives λ=104.°2E, φ=5°.0N. Destructive along SW coast of Sumatra. Great number of after shocks accom- panied.	
		Heizyō	P 03 27.4							7 39.9	6070		
		Taikyū	eP 03 28.1	±220	±289		11	13		6 55.0	5235		
		Keizyō	eP 03 38.1		-330			14		7 01	5340		
		Iiusan	e 13 12										
		Soenget Langka	iP 21 55 00										
		Batavia	iP 55 19										
		Malabar	P 55 39										
		Medan	P 57 16										
		Amboina	P 22 00 03							3 51.?	2330?		
Württemberg	eP 08 20			100	120		21	21	11 50	10500			
Hamburg	eP _Z 08 21	440	230	160	20	24-31	33						
Sitka	iP' 13 07												
Pasadena	iP' 13 59												
Ottawa	eN 14.2												
Buffalo	eP' 14 14												
Saint Louis	eP' 14 19												
Florissant	iP'z 14 19							11 51	11250				
Georgetown	eP' 14 24												
Charlottesville	iP' 14 33												
San Juan	eP' 15 10												
Zinsen	eL? 15 26 32												
Keizyō	eL? 26 47.3												
Medan	eP 15 13 25							3 22	1910				
Batavia	e 19 35												
Württemberg	eL 38												
Zinsen	P 34 09												
Taikyū	P 34 19.9							3 44	2245	(r) SE off the is- land of Etorohu, the Kurile Islands. λ=149.°5E, φ=43.°0N. Felt slightly at Nemuro.			
Keizyō	P 34 21.5			78			17.0	3 18	1940				
Heizyō	P 34 23.4							3 50	2320				

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Nemuro	^b 1 ^m 30 ^s 57.7	^u ±230	^u -720	^u μ	^s 3.5	^s 4.5	^s 2.9	^m 39.0	^m 289	
		Sapporo	31 42.8	-161	-215	-66	3.8	3.8		1 36.3	833	
		Ootomari	31 58.1	-83			2.0			1 32.0	850	
		Akita	32 06							2 32.6	1456	
		Sendai	32 15.9	± 80	± 60		18.2	15.1		1 40.5	1535	
		Hamamatu	32 48							3 00.0	1745	
		Tōkyō	32 54							1 59.?	1110?	
		Wazima	32 57.6	± 8	± 9		18.2	18.2		2 14.8	1268	
		Oosaka	33 48.7	- 9	- 26	+ 8	5.4	6.1	2.7	3 00.3	1750	
		Hamada	33 59.5	- 46	- 52	- 86	16.7	21.6	19.4	3 18.2	1943	
		Titi-zima	34 20.4							3 10.5	1855	
		Hukuoka	34 21.9	± 42	± 31		15.4	17.6		3 35.0	2135	
		Naze	35 14.0							4 13.4	2604	
		Taihoku	36 46									
		Honolulu	e 1 37 27							8 23	6880	
		Sitka	iP 38 34							7 16	5620	
		Batavia	e 39 15									
		Medan	e 40 25									
		Pasadena	ePz 41 02							8 58	7560	
		Hamburg	iPz 1 41 50	13	16		20	17		10 40	9600	
		Württemberg	iP 42 15.5							10 00	8790	
		Florissant	iPz 42 17							10 02	8830	
		Saint Louis	eP 42 12							10 00	8790	
		Ottawa	eP 42 20							10 03	8900	
		Georgetown	eP 42 40							10 42	9640	
99	July 9	Keizyō	P 9 32 18.6		- 44			16.0		3 23.8	2010	SE off the island of Etorohu, the Kurile Islands. J. S. A. gives λ=153.°2E, φ=45.°3N.
		Taikyū	eP 32 21.2							3 41.0	2210	
		Zinsen	P 32 26.4							3 44.7	2260	
		Sitka	eP 9 36 31							6 45	5055	
		Pasadena	eZ 38 55									
		Hamburg	ePz 39 46	11	12	18	18	23	18			
		Württemberg	eZ 40 11							10 13	9050	
		Florissant	iPz 40 14							9 58	8750	
		Saint Louis	eP 40 18							10 02	8830	
		Georgetown	iP 40 49							10 28	9350	
		Honolulu	S 43 46									
100	July 9	Taikyū	P 9 52 34.1							3 46.0	2270	Ditto.
		Keizyō	P 52 34.6									
		Zinsen	P 52 37.7							3 49.8	2320	
101	July 9	Zinsen	eP? 11 25 35							4 16.?	2640?	Ditto.
		Keizyō	eP? 25 37.0							4 00.6	2510	
102	July 9	Keizyō	P 12 34 57.4		-221			16.0		3 56.2	2390	(r) SE off the island of Etorohu, the Kurile Islands. λ=149.°0E, φ=42.°5N. Feit slightly at Kusiro.
		Taikyū	P 34 58.0							3 31	2090	
		Zinsen	P 34 59	-337	±174		20.6	16.3		3 47	2280	
		Heizyō	P 35 05.8							3 54	2360	
		Nemuro	12 31 32.1	-550	-190		5.5	4.2		41.7	309	
		Sapporo	32 19.7	-205	-346	-119	3.2	3.0	41	1 24.7	777	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Ootomari	12 32 34.6	+275	μ	μ	2.6	s	s	2 04.0	1160	
		Akita	32 50.5							4 02.8	2468	
		Sendai	32 51.1	-575	-461	±133	16.7	16.3	14.0	1 41.8	938	
		Tôkyô	33 29.1							3 02.4	1774	
		Wazima	33 36.6	± 26	+ 35	± 9	19.1	17.0	17.9	2 24.7	1371	
		Gihu	33 55.7	±250	-330	-260	16.0	16.0	16.5	2 37.0	1500	
		Oosaka	34 17.7	- 33	-202	- 7	9.8	9.8	2.5	3 23.7	2007	
		Kôti	34 32.5							3 22	1990	
		Hamada	34 35.1	+620	-286	-420	27.0	23.2	17.7	3 24.1	2011	
		Titi-zima	34 53.4	+ 70	+150		11	11		3 05.2	1802	
		Hukuoka	34 58.9	+200	±350	±320	21.0	17.0	17.2	3 37.6	2166	
		Naze	35 48.2	± 13	± 14	± 7		19.6	19.3	4 17.7	2661	
		Taihoku	37 09	±310	±360	±170	17.7	18.5	18.5	5 45	3965	
		Sitka	iP 12 39 07							6 48	5105	
		Honolulu	eP 39 24							7 00	5320	
		Ambaina	P 39 48							7 10	5580	
		Medan	eP 40 54							8 19	6850	
		Batavia	P 41 12									
		Pasadena	iPz 41 37							8 59	7580	
		Tucson	eP 42 20							9 27	8140	
		Hamburg	iPz 42 27									
		Florissant	ePz 42 51							10 03	8850	
		Saint Louis	iPz 42 51							10 06	8910	
		Württemberg	iP 42 53							10 08	9000	
		Ottawa	eP 43 00							10 04	8870	
		Fordham	eP 43 18									
103	July 9	Zinsen	eP 16 11 19							3 51	2331	Eastern off the cape of Nosyappu, Hokkaidô district.
		Taikyû	eP? 11 23							3 46?	2270?	
		Keizyô	eP? 11 28.0							3 52?	2340?	
		Heizyô	e 19 43									
		Pasadena	eZ 16 18 02									
		Hamburg	ePz 18 53	2	2	6	18	18	18			
		Württemberg	eP 19 18							10 02	8830	
		Saint Louis	eP 19 18							10 02	8830	
104	July 9	Keizyô	eP 17 55 47							4 01	2450	Ditto.
		Zinsen	e 56 06									
		Taikyû	e 59 35									
105	July 9	Keizyô	eP? 22 19 13							4 19.?	2680?	Ditto.
		Zinsen	e 22 24									
		Taikyû	e 22 44									
106	July 10	Taikyû	P 0 24 43.0							2 30.0?	1430?	(r) 250km. eastern off Kamaisi, Iwate Prefecture. λ=144.°8E, φ=38.°9N. Felt from southern part of Hokkaidô to NE part of Kwantô districts.
		Keizyô	eP 24 52							2 36	1490	
		Zinsen	P 25 00							2 38	1510	
		Heizyô	P 25 01.7							2 41.?	1540?	
		Miyako	0 22 18	+ 702	-717		1.0	1.0		16	119	
		Morioka	22 20.9	NE>500	NW>500	±300			0.9	30.4	226	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of 1'-S	Δ	Remarks
				N	E	Z	N	E	Z			
		Sendai	h m s 0 22 23.8	^u -444	^u +283	^u -148	^s 2.7	^s 2.5	^s 2.6	^{m s} 31.3	^{km} 232	
		Akita	22 33.3	-2500	±1000	-378	2.4	2.4	2.4	38.9	289	
		Sapporo	22 48.0	-141	-181		0.9	1.1		52.5	390	
		Tōkyō	22 50.9	-145	±130	± 78	4.6	5.0	4.6	53.2	395	
		Wazima	23 07.7	+141	+156	+ 54	2.7			1 06.5	605	
		Gihu	23 21.5	+ 35	- 30	- 18	4.0	1.4	1.4	1 16.0	690	
		Osaka	23 39.9	+ 90	+108	+ 19	4.3	4.0	2.2	1 00.9	549	
		Kōti	24 06									
		Hamada	24 10.3							2 21.5	1335	
		Titi-zima	24 25.1							2 00.0	1120	
		Hukuoka	24 34.5							2 52.0	1660	
		Naze	25 22.6									
		Taihoku	26 50							4 58	3215	
		Pasadena	iP 0 33 12							9 32	8240	
		Hamburg	iPz 33 42		4			20				
		Württemberg	eP 34 04.5								9300	
		Florissant	iP 34 19									
107	July 10	Taikyū	P 10 41 05.0									Borneo,
		Zinsen	P 14 20.4									
		Keizyō	P 41 22.9							6 27.6	4729	
		Amboina	iP 10 34 29							1 04	580	
		Pasadena	ePz 47 32									
		Württemberg	e 52									
		Florissant	iPz 54 27							6 52	5180	
		Saint Louis	eP 54 31							9 50	8590	
		Ottawa	e 54 55									
108	July 11	Keizyō	eP 6 02 40									Off the coast of K-
		Zinsen	eL? 06 18									uzuyōkuri, Tiba Pre-
												fecture.
109	July 11	Taikyū	P 6 52 40.2									ESE off Katsuura,
		Keizyō	P 32 59									Tiba Prefecture.
		Zinsen	e 53 00									
110	July 12	Keizyō	P 16 18 32.9							02.1	15.5	Local. Felt slightly
		Zinsen	P 18 37.1							5.9	43.8	at Keizyō.
111	July 13	Taikyū	e 8 00 05.0									(m) 60km, WNW
		Keizyō	eP 00 08	± 12	± 15		11.0	12.0				off the island of O-
		Zinsen	e 00 14									kuziri, Hokkaidō
												district.
		Sapporo	7 58 08.1	+348	+381		2.5	2.9		21.7	161	Felt at SW part of
		Akita	58 19.1	-128	-102		3.4	3.4		26.2	195	Hokkaidō and North
		Sendai	58 45.6	+ 42	+ 20	± 14	10.9	7.5	9.9	1 45.4	974	part of Tōhoku dis-
		Wazima	59 12.9							34.5	256	tricts.
		Tōkyō	59 23.2									
		Gihu	59 33.4	+ 16			3.2			1 32.0	850	
		Siomisaki	8 00 02.4									
		Hamada	01 37.3							2 39.5	1525	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks
				N	E	Z	N	E	Z			
		Pasadena	iP 15 07 57							6 29	4755	
		Florissant	iPz 09 40							7 54	6330	
		Saint Louis	iPz 09 40							7 53	6310	
		Ottawa	iP 10 04							8 12	6700	
		Fordham	iP 10 31							8 41	7230	
		Georgetown	iP 10 32							8 37	7150	
		Hamburg	iPz 11 37	6	5		18	18				
		Württemberg	eP 12 03.5							10 02	9000	
		San Juan	eP 12 42							10 28	9350	
118	July 19	Keizyō	e 20 59 01									
		Zinsen	e 21 00 20									
		Taikyū	e 03 41									
119	July 20	Taikyū	P 23 17 08.4									
		Keizyō	P 17 18.4							3 25.6	2026	(r) 280km. eastern off Kinkasan, Miyagi Prefecture.
		Zinsen	P 17 22.1									λ=144.°3E, φ=38.°5N.
		Keizyō	P 17 27.3									Felt from Southern part of Hokkaidō to Kwantō districts.
		Morioka	23 14 48.0	NE>±500	sw>500	-220	1.2	1.2	1.1	33.7	250	
		Sendai	14 48.3	+480	+515	-241	1.7	1.6	1.7	34.4	255	
		Akita	15 02.0	+563	-434	+112	1.1	1.7	1.9	42.2	314	
		Sapporo	15 09.9	-133	+187	- 81	1.6	1.6	1.7	51.6	383	
		Tōkyō	15 14.9	+170	+210	± 85	3.8	1.6	3.5	53.5	397	
		Wazima	15 33.6	-102	-150	+ 59				1 06.3	603	
		Gihu	15 45.8	- 52	- 58	+ 13	1.6	1.6	2.2	1 17.2	702	
		Oosaka	16 01.7	+ 92	+140	+ 17	5.0	5.0	1.9	1 53.9	1059	
		Kāti	16 28									
		Hamada	16 35.5							2 27.9	1409	
		Titi-zima	16 44.8							2 00.2	1122	
		Hukuoka	16 59.9							2 55.3	1693	
		Pasadena	iP 23 25 35									
		Ottawa	e 26 43									
		Hamburg	ez 26 07	3			20					
		Württemberg	eP 26 29							10 21	9200	
120	July 22	Zinsen	eP 21 03 34							6 46	5070	Aleutian.
		Taikyū	P 03 38.5							6 50.0	5145	J. S. A gives λ=166.°1W, φ=51.°9N.
		Keizyō	eP 03 39.6							6 33.9	4845	U. S. C. G. S. gives λ=169°W, φ=52°N.
		Keizyō	e 22 57									
		Sitka	iP 20 59 48							3 01	1760	
		Honolulu	eP 21 01 42							5 18	3515	
		Pasadena	ePz 02 46							6 19	4575	
		Tucson	iP 03 40							6 48	5105	
		Florissant	iPz 04 38							7 32	5920	
		Saint Louis	iPE 04 39							7 34	5960	
		Ottawa	eP 05 03							7 56	6400	
		Fordham	iP 05 34							9 12	7840	
		Amboina	P 06 37									
		Hamburg	iPz 06 52	44	63	43	20	20	20			
		Medan	e 06 57									
		Württemberg	iP 07 19							9 58	8600	

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks
					N	E	Z	N	E	Z			
		San Juan	iP	21 07 41									
		Barcelona	eP	07 59									
		Batavia	e	08.2									
121	July 24	Heizyô	P	8 39 29.3							1 16.2	690	Southern off Vladivostock. λ=132.°5E, φ=42°N.
		Keizyô	iP	39 32.7							1 46.3	988	
		Zinsen	P	39 34.3							1 19.6	730	
		Taikyû	P	39 41.8							1 25.6	790	
122	July 24	Keizyô	e	19 08 13									J. S. A gives λ=174.°5W, φ=15.°2S. (SW to Samoa.)
123	July 28	Taikyû	eP	16 45 00.5							54.5°	405°	(m) 15km. WSW off the city of Wak-
		Keizyô	eP?	46 40.1							1 42°	940°	ayama.
		Zinsen	eP?	49 50							2 32.4°	1450°	λ=135.°0E, φ=34.°2N.
		Heizyô	eP?	47 34.8									Felt in Kinki, Tyû- goku, Sikoku and Tyûbu districts.
		Wakayama		16 43 30.5	±950	+950	+650	0.9	0.8	0.9	04.3	32	
		Sumoto		43 31.4	-513	-556	-128	1.9	2.6	2.3	04.9	36	
		Kôti		43 48.6	±200	±180	±100	2.9	2.9	2.0	17.8	132	
		Gihu		43 56.7	+235	-225	-110	1.4	1.9	1.5	29.4	218	
		Hamada		44 08.1	- 17	+ 12	+ 13	2.8	3.4	3.1	41.4	307	
		Wazima		44 22.8	+110	- 90	+ 14				55.4	411	
		Hukuoka		44 24.9	- 30	- 23		1.6	2.8		1 01.2	552	
		Tôkyô		44 44.4	± 80	± 65		3.3	2.8		51.2	380	
		Sendai		45 05.4	± 8	± 11		2.3	3.4		1 38.9	909	
124	Aug. 4	Keizyô	e	17 43 13.3									
		Zinsen	eL	47 10									
		Medan	eP	17 43 23							56	510	
		Württemberg	e	53									
125	Aug. 5	Zinsen	eP?	1 00 42									The Solomon Islands
		Keizyô	eS?	10 08.0									
		Batavia	e	0 52 12									
		Pasadena	iP	0 57 16							10 56		
		Württeml.erg	ePP	1 05 46								15000	
126	Aug. 11	Heizyô	P	8 59 20.9							4 09.6	2560	North Burma. λ=96°E, φ=30°N. Manila gives λ=97°E, φ=27°N.
		Zinsen	eP	59 40.3	+ 90	- 57	- 78	13.0	13.1	12.5	4 50.2	3095	
		Keizyô	P	59 43.9	± 31	+ 40		10.0	12.0		4 43.6	3009	
		Taikyû	eP	59 53.7							5 05.6	3325	
		Medan	iP	8 58 59									
		Batavia	i	9 00 35									
		Hamburg	ePz	05 07							8 09	7760	
		Württemberg	iP	05 19.5							9 14	7880	
		Pasadena	iZ	13 15									
		Ottawa	en	14 03									
		La Paz	Pz	14 08									
127	Aug. 14	Zinsen	e	22 21 07.4									
		Keizyô	eP	21 12.2							4 20.8	2702	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
128	Aug. 15	Württemberg	eZ?	h m s	μ	μ	μ	s	s	s	m s	km	(r) 280km, NNE off Titi-zima, the Bon-in Islands, λ=144.°0E, φ=29.°2N. Felt slightly at Titi-zima, Tukuba, Hukusima and Aizu.	
		Hamburg	e	22 26 23	3	8		7	7					
		Taikyū	P	3 01 20.3								2 55.0		1690
		Keizyō	P	01 44.1								2 59.?		1730?
		Zinsen	iP	01 48.0								3 12.?		1875?
		Heizyō	iP	02 04.9										
		Titi-zima		2 58 31.1	-140	- 87	- 76	0.4	0.4	0.2		26.1		194
		Tōkyō		59 41.9								1 18		710
		Gihu		3 00 00.5	+ 14	- 17		2.2	1.4			1 36.7		887
		Oosaka		00 05.0	- 26	- 14	+ 11	3.6	3.6	2.3		1 50.5		1025
		Sendai		00 08.7	- 63	-104	- 52	2.5	4.2	1.3		1 40.9		929
		Kōti		00 18										
		Wazima		00 20.2	+ 83	± 40	± 15							
		Hamada		00 40.4								2 13.3		1253
		Hukuoka		00 51.3								2 17.9		1299
		Naze		00 57.1								3 02.3		1773
		Sapporo		01 12.7										
Akita		01 28.8	± 60	± 60		3.1	3.1			1 58	1100			
Taihoku		02 35.3								3 25.5	2025			
		Pasadena	iP	3 10 04										
		Württemberg	ePPz	14.7								10500		
		La Paz	Pz	17 41										
		Ottawa	e	22										
129	Aug. 18	Keizyō	e	8 22 22										
		Zinsen	e	22 34										
130	Aug. 20	Zinsen	eP?	11 50 03.8										
		Taikyū	P	50 08.3							4 14.0	2610		
		Medan	e	11 50 58										
		Batavia	e	52 04										
		Württemberg	eP	58							12	10700		
		La Paz	ePz	12 05 28		+ 7				24				
		Hamburg	e	09	8	10	13	23	23	16				
Ottawa	e	12												
131	Aug. 20	Taikyū	P	12 11 09.3						4 13.0	2600	Ditto.		
132	Aug. 22	Taikyū	e	13 21 51.4										
		Württemberg	eL	13 25										
133	Aug. 25	Heizyō	P	7 54 57.4							3 38.1	2170	λ=102°E, φ=34°N. Between Prov. of Szechuen and Kansu, China, J. S. A. gives λ=103.°2E, φ=30.°9N. H=7 ^b 50 ^m 36 ^s	
		Zinsen	eP	54 58	-262	+260	+420	6.8	7.4	8.0	3 49	2305		
		Keizyō	P	55 03.8		-344				9.0	3 45.2	2262		
		Taikyū	P	55 16.7	±187	±405		7.5	10.9		3 52.8	2350		
		Manila	iP	7 55 41							4 23	2730		
		Medan	iN	56 24							4 53.?	3300		
Bombay	iP	56 45							5 04	3295				

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Florence Nim.	eP	22 34 00	μ	μ	μ	s	s	s	m s	km	
		Fordham	eP	34 02									
		Ottawa	eP	34.3									
		Amboina	e	34 15									
		Neuchatel	eP	34 18									
		Strasbourg	eP	34 18									
		Florissant	iPz	34 18							11 53	11300	
		Württemberg	eP	34 19	72	57	95	20	20	20		12800	
		Kew	eP	34 23							12 45	12650	
		De Bilt	eP	34 33									
		Batavia	e	34 37									
		Hamburg	ePz	34 42	210	250	120	53	53	17			
		Madison	eP	34 46									
		Pasadena	iP'z	38 31									
		Ann Arbor	ePR ₁	39 00									
		Berkeley	ePR ₁	38 53									
		Bombay	iPR ₁	38 54									
		Victoria	e	39 00									
		Tucson	P'	38 39									
		Sitka	iP'	39 17									
136	Aug. 29	Taiikyū	P?	12 33 59									
		Sendai		12 31 40.9	±570	-352	-386	1.8	1.8	1.3	10.9	81	
		Tōkyō		32 03.5	±145	-222		0.8	0.8		32	238	
		Akita		52 04.6	-233	-148	-156	2.1	2.1	2.0	32.2	340	
		Wazima		32 27.9	- 71	± 6					51.4	381	
		Gihu		32 35.1	- 59	+ 30	+ 17	1.3	1.5	1.8	57.3	425	
		Sapporo		32 53.6							1 16.2	692	
		Oosaka		33 07.0	+117	+196	- 24	3.2	0.8	2.4	1 11.1	651	
		Kōti		33 30									
		Hukuoka		33 55.0							2 04.6		
		Hamada		35 02.5							43.7	324	
137	Sept. 2	Husan	P	16 42 53.5							1 52.0	1040	
		Taiikyū	P	43 33.1	+ 57	+ 42		5.0	5.4		2 01.0	1130	
		Zinsen	P	44 04							2 13	1250	
		Keizyō	iP	44 04.4							2 09.7	1217	
		Heizyō	P	44 21.8							2 25.2	1375	
		Hatizyō-zima		16 42 19.9	±1250	±1250	-255				49.7	369	
		Titi-zima		42 27.1	-1200	-950	+630	0.7	0.7	0.8	57.1	424	
		Siomisaki		42 32.8	-220	+290	-114	3.7	3.8	3.7	58.2	432	
		Tōkyō		42 42.3		-651	-460		2.0	3.8	1 06.7	607	
		Kōbe		42 46.3	+493	-400	-187	6.5	4.8	5.2	1 08.5	625	
		Gihu		42 46.7	-350	-380		3.3	3.6		1 06.7	607	
		Kōti		42 48.4	± 60	± 50	+ 30	6.0	6.0	2.8	1 13.9	679	
		Wazima		43 05.2	+ 91	±101	± 11	3.6	4.3	3.0	1 20.9	739	
		Hamada		43 09.2							1 27.5	805	
		Sendai		43 13.6	+384	+482	-174	2.5	2.4	2.4	1 32.2	852	
		Hukuoka		43 15.1	±210	-124		4.8	3.8		1 34.3	863	
		Akita		43 29.3	+489	-244		3.2	3.1		1 49.5	1015	
		Sapporo		44 08.3	- 67	+133		4.4	6.8		2 17.2	1292	
		Ootomari		44 33.6		± 65			3.2		3 02.0	1170	

(m) 55km. SE off the mouth of the River Abukuma, Miyagi Prefecture.
 $\lambda=141.4^{\circ}E$,
 $\varphi=37.7^{\circ}N$.
 Felt in SE part of Tōhoku and a part of Kwantō districts.

(r) 330km. southern off the island of Hatizyō.
 $\lambda=139.4^{\circ}E$,
 $\varphi=30.3^{\circ}N$.
 Depth about 300km. Felt abnormally at SE part of Kwantō and Tōhoku districts.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks	
				N	E	Z	N	E	Z				
138	Sept. 6	Taihoku	16 ^h 44 ^m 42.7 ^s	μ	μ	μ	s	s	s	2 46	1600	The Fiji Islands, J. S. A. gives λ=178.°0'W, φ=24.°0'S. IT=22 ^h 08 ^m 29 ^s Depth 603km.	
		Palau	45 48.5							3 37.9	2169		
		Amlöina	iP 16 48 40							5 07	3520		
		Medan	iP 49 06							6 11	4610		
		Datavia	iP 49 10							6 22	4810		
		Honolulu	e 50 20										
		Ottawa	e 52.2										
		Sitka	iP 51 02							7 58	64 0		
		Pasadena	iP 52 57							9 40	8390		
		Hamburg	ePz 53 10	8	11		14	14					
		Württemberg	eP 53 27							10 12	10300		
		Florissant	iPz 53 35							10 24	9270		
		Saint Louis	iP 53 56							10 03	8350		
		Georgetown	iP 58 49										
		La Paz	Pz 17 00 21										
		San Juan	e 01 27										
				Taikyū	eP 22 19 17.4						8 57.0		7540
				Keizyō	eP 19 28.8						9 07.0		7740
				Zinsen	P 19 30.2						9 07		7740
				Heizyō	P 19 38.5								
				Apia	iP 22 10 58						11 30		10725
				Honolulu	eP 16 19								
				Amboina	iP 17 55						6 59		5390
				Manila	iP 18 38						8 22		6360
				Malabar	iP 18 58						8 29		7060
				Batavia	iPz 19 00						8 37		7220
				Ukiab	eP 19 36						8 16		6740
				Berkeley	eP 19 41						7 19		5675
				Pasadena	iP 19 44						9 26		8120
				Medan	iP 20 04						10 52?		10000
		Tucson	iP 20 07						9 27	8140			
		Florissant	iPz 21 28						10 55	9930			
		Saint Louis	iP 21 28						10 55	9930			
		La Paz	ePN 21 35						10 57	9970			
		Cincinnati	eP 21 46										
		Madison	pP 23 48										
		Fordham	e 24 30										
		Ottawa	eE 24.6										
		Georgetown	iPRt 26 59										
		Hamburg	Pz 27 06										
		Württemberg	iPz 27 13							17200			
		San Juan	iP 27 35										
139	Sept. 9	Heizyō	P 5 04 18.3							1 26.4	790	Neighbourhood of Vladivostock,	
		Keizyō	iP 04 27.2	+ 47	± 41		5.3	2.9		1 32.4	854		
		Zinsen	P 04 28.8							1 34.2	860		
		Taikyū	P 04 39.9							1 44	965		
		Württemberg	eP 5 13 07							8 48	7400		
		Pasadena	iPz 13 43							6 18	7960		
		La Paz	Pz 21 16										

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
140	Sept.21	Taikyū	eP	^h 3 ^m 16 ^s 12.5	μ	μ	μ	s	s	s	^m 1 ^s 23.0	760	(m) The strong Earth-quake of Noto, Isikawa Prefecture. λ=136°58'E, φ=37°04'N. Damage at epicentral region.	
		Zinsen	eP	16 23.							1 50	1020		
		Keizyō	eP	16 23.6		- 70			10.0		1 31.3	843		
		Heizyō	P	16 45.5							1 53.3	1108		
		Wazima		3 14 32.2	+28000	-20250	-3250	1.2	1.2	1.2	4.8	36		
		Nagano		14 44.4	-2780	+2620	-992	9.2	4.1	2.6	15.2	113		
		Gihu		14 53.3	+340	+420	+280	1.9	2.0	2.0	21.5	160		
		Tōkyō		15 12.4	-500	+731	+500	4.8	3.1	3.7	36.0	267		
		Kōbe		15 12.1	+146	-160	-125	6.5	4.0	4.6	38.4	235		
		Sendai		15 18.9	+137	+160	- 60	4.4	2.5	4.4	47.0	349		
		Akita		15 23.0	+140	+128	- 89	3.1	3.5	2.7	52.1	387		
		Kōti		15 36.7	± 30	± 45	± 40	3.0	3.0	3.5				
		Hukuoka		16 03.5	-130	± 75		11.5	13.0		1 15.5	685		
		Sapporo		16 13.5							1 24.0	770		
		Naze		17 05.3							2 35.5	1485		
		Taihoku		22 11										
		Amboina	P	3 22 07										
		Pasadena	iP	26 33										
		Württemberg	eP	26 49										9400
La Paz	Pz	34 22												
141	Sept.21	Taikyū	P	9 50 51.9									(m) 100km. SE off Miyako, Iwate Prefecture. λ=143.°0E, φ=39.°3N. Felt in eastern half part of Tōhoku district.	
		Keizyō	eP	51 03.2	±230			14.0						
		Heizyō	P	51 03.9							1 54.4	1064		
		Zinsen	eP	51 07										
		Sendai		9 48 31.8	+381	+272	-124	2.0	2.0	1.5	21.9	163		
		Morioka		48 32.7	NE250	NW318	-207	1.2	1.0	3.4	25.0	186		
		Akita		48 43.6	+477	-402	+467	2.1	2.9	2.8	43.1	320		
		Otomari		48 55.6							2 33	1460		
		Tōkyō		49 01.8	-188	-188	-166	3.1	3.4	2.8	1 06.5	605		
		Sapporo		49 13.1	-122	+193	- 65	3.6	2.9	3.4	53.2	395		
		Wazima		49 17.0	+ 75	+ 36	± 15	3.0	2.7	2.7	1 07.7	617		
		Gihu		49 30.9	± 21	- 33	+ 12	1.6	1.8	2.1	1 03.7	577		
		Kōbe		49 53.6	+ 19	+ 14	+ 14	17.5	16.0		1 25.0	780		
		Hamada		50 20.8							1 22.3	753		
		Kōti		50 24										
		Hukuoka		50 46.9	± 48	- 50		13.5	18.3		2 22.5	1345		
		Pasadena	eP	9 59 46										
		Hamburg	ez	10 00 09	5	14		20	17					
		Württemberg	ePz	00 29										9800
Amboina	P	02 40												
La Paz	PE	07 54		+ 9			18							
Ottawa	ee?	11.3												
142	Sept.21	Zinsen	eP?	13 45 03.									110km. ESE off Miyako. λ=143.°3E, φ=39.°4N.	
		Keizyō	eP	45 12.5							4 12.5	2595		
143	Sept.24	Keizyō	eP	15 27 22.6							6 11.2	4424	The Aleutian Islands, J. S. A. gives. λ=174.°4W, φ=51.°9N. H=15 ^m 19 ^m 50 ^m Depth 30to50km.	
		Taikyū	eP	27 24.3							5 44.0	3945		
		Zinsen	eP	27 25							6 15	4500		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Sitka	iP	h m s 15 25 00	μ	μ	μ	s	s	s	m s 4 17	km 2650	
		Honolulu	eP	25 18							5 26	3640	
		Pasadena	eP	27 52							6 36	4885	
		Madison	iP	29 16							7 45	6160	
		Florissant	iPz	29 31							8 00	6440	
		Saint Louis	iP	29 35							7 59	6420	
		Ottawa	eP	29 52							8 18	6780	
		Cincinnati	iP	29 54									
		Buffalo	iP	30 00							8 23	6880	
		Fordham	iP	30 22									
		Georgetown	iP	30 22							8 43	7270	
		Hamburg	iPz	31 17	20	14	25	27	27	27	9 33	8200	
		Württemberg	iPz	31 44.5							9 52	8500	
		Medan	eP	32 06							10 23	9380	
		Batavia	iP	32 17							10 32	9580	
		La Paz	eP??	39 43		+ 45				24	10 54	9905	
144	Sept. 25	Heizyδ	P	18 57 38.8							5 12	3420	Württemberg gives
		Zinsen	eP	57 40.5		-112			11.1		6 28.5	4745?	λ=85°E, φ=33°N.
		Keizyδ	eP	57 42		±180			13.2		5 33.7	3769	(Tibet.)
		Taikyū	eP	19 02 39.6							6 38.6	4945?	
		Medan	P	18 59 09									
		Batavia	eP	19 00 15							7 04	5180	
		Hamburg	iPz	00 40	180	210	84	12	11	11		5900	
		Württemberg	iPz	00 54.5	40	73	90	15	15	15	7 59	6500	
		Amboina	eP	01 16							6 29	5930	
		Ottawa	e	03 43									
		La Paz	P/z	10 07								16890	
145	Sept. 30	Keizyδ	eP	14 23 48.8							6 12.0	4440	New Guinea.
		Amboina	eP	14 23.5							2 55?	1700?	Württemberg gives
		Batavia	ePz	27 29									λ=139°E, φ=3.5°S.
		Medan	eP	28 42							6 06	4540	II=14 ^h 20 ^m 50 ^s
		La Paz	Pz	40 56									
		Württemberg	ePP	41 02								13200	
		Florissant	ePz	41 44							9 50	8590	
		Ottawa	eE	43.5									
146	Oct. 2	Zinsen	eP?	15 50 18									The Pacific Ocean.
		Keizyδ	eP?	50 20									J. S. A. gives
		Taikyū	eL	52 23.6									λ=80.0°W,
													φ=2.5°S.
		La Paz	iPz	15 33 51		+113			15		3 40	2200	La Paz gives
		San Juan	iP	34 48									λ=80.5°W,
		Woodstock	iP	37 10							6 45	5055	φ=2.5°S.
		Georgetown	iP	37 07							6 11	4420	
		Saint Louis	ePN	37 12							6 13	4460	
		Florissant	iPz	37 13							6 13	4460	
		Cincinnati	iP	37 13							4 56	3195	
		Fordham	iP	37 28							6 26	4705	
		Tucson	eP	37 36							6 36	4335	
		Buffalo	iP	37 38							6 44	5035	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Madison	iP	h m s	μ	μ	μ	s	s	s	m s	km	
		Ottawa	iP	15 37 42							6 52	5180	
		Pasadena	iP	37 53							7 13	5610	
		Berkeley	iP	38 22							6 45	5055	
		U'kiah	eP	38 58							6 44	5035	
		Saskatoon	eP	39 03							7 53	6400	
		Victoria	iP	39 11									
		Honolulu	iP	40 00							9 51	8610	
		Württemberg	iP	41 28							11 00	10500	
		Hamburg	iP	42 33.5									
		Nanking	P	42 35									
		Amboina	e	42 35									
		Batavia	ie	49 06									
		Medan	iP	49 12									
				49 37									
				50 23									
147	Oct. 3	Taiikyū	P	18 40 56.0							1 58.0	1100	(m) Central part of Niigata Prefecture.
		Keizyō	iP	41 13.1		± 43			13.0				λ=133.°80E,
		Zinsen	eP	41 16.6		± 33			13.6				φ=37.°20N.
		Heizyō	P	41 25.0							1 56.4	1084	Depth 35km.
		Takata		18 39 04.1							8.2	61	Felt in Hokuroku,
		Niigata		39 05.0	+3720	+4720	-900	5.0	5.0	2.0	10.5	80	Tyūbu, Kwantō and
		Wazima		39 18.2	+1300	-1400	-380			1.8	20.1	146	Tōhoku districts.
		Tōkyō		39 22.5	+2000	±2000	-2500				22.8	169	Small damage at epi-
		Sendai		39 23.8	-668	-513	+268	1.9	2.4	3.4	25.7	131	central region.
		Gihu		39 33.6	+160	-200		3.0	1.9		41.6	309	
		Akita		39 35.1	+428	±257	-170	3.7	2.8	2.3	30.8	229	
		Kōle		39 53.9	- 85	+120	- 65	5.0	5.0	2.6	55.9	416	
		Sapporo		40 27.8	± 22	+ 40		3.2	3.4		1 11.5	655	
		Kōti		40 31	± 20	± 15	± 15	3	3	3.5	1 03	570	
		Hukuoka		40 45.2	± 45	± 25		9.2	13.2		1 52.9	1049	
		Taihoku		47 12									
		Nanking	P	18 42 55							3 29	2050	
		Pasadena	iP	50 55									
		Württemberg	eP	51 17									
		La Paz	P	58 40									
148	Oct. 5	Taiikyū	eP	13 53 57.3									Württemberg gives
		Keizyō	eP	56 21.5		+ 18			14.0				λ=56°E, φ=32.°5N.
		Württemberg	eP	13 37 05							6	4300	(Persia)
		Hamburg	eP	38 47	50	35		11	11				
		Nanking	e	38 48									
		Medan	e	39.2									
		La Paz	eP?	47 51									
		Batavia	e	49									
		Ottawa	e	53									
149	Oct. 9	Taiikyū	eP	12 09 43.3									Upper valley of the
150	Oct. 14	Heizyō	P	7 50 28.7							26.4	196	River Dōsi, Kanagawa Prefecture.
151	Oct. 21	Taiikyū	P	2 47 03.3							2 07.4	1130	λ=139.°0E,
													φ=35.°5N.
													Local.
													SE off the cape of
													Nozima, Tiba Prefecture.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
152	Oct. 26	Keikyô	eP ^{h m s}	2 47 21.2	± 19	- 45		16.0	14.0			North Chile. La Paz gives λ=63°W, φ=22°S. J. S. A. gives λ=68°W, φ=22°S. U. S. C. G. S. gives λ=67°W, φ=22°S.	
		Zinsen	eP	47 23.4									
		Nanking	eP ^E	2 43 49									
		Württemberg	eL	3 30									
	Oct. 25	Zinsen	eP ^o	0 00 45							45		410
		Keizyô	eP ^o	02 14							22		775
		Sucre	iP ^S	23 29 27	-265			3			5 53		4105
		La Paz	iP ^S	30 01						8 11	6650		
		San Juan	iP	35 43						8 22	6860		
		Georgetown	iP	38 21						8 27	6960		
		Fordham	iP	38 31						3 26	6940		
		Florissant	iP ^Z	38 38						8 44	7230		
		Saint Louis	iP	38 33						8 48	7370		
		Buffalo	iP	38 46						9 25	8100		
		Ottawa	eP ^S	39 00						11 09	11000		
		Tucson	iP	39 05									
		Pasadena	iP	39 38									
		Hamburg	ez	41									
		Württemberg	eP	41 31									
		Sitka	iP ^{K₁}	45 33									
Amboina	i	47 19											
Malabar	P	47 27											
Batavia	iP ^Z	47 36											
Medan	P	47 50											
153	Nov. 2	Zinsen	eP	12 34 44.3						6 25.9	4703	Aleutian, J. S. A. gives λ=168°W, φ=45°N. H=12 ^h 27 ^m 08 ^s	
		Keizyô	eP	34 48.8						6 13.6	4472		
	Sitka	iP	12 32 12						4 17	2650			
	Victoria	eP	33 30						4 27	2730			
	Honolulu	eP	34 35						6 34	4920			
	Pasadena	iP	35 07						6 47	5047			
	Chiufeng	iP	35 30	+ 23	- 24	- 38	21	21	21	7 27	5765		
	Nanking	iP ^E	35 50										
	Madison	iP	36 34							8 00	6440		
	Saint Louis	eP	36 51							7 58			
	Florissant	iP ^Z	36 52							8 43	7270		
	Buffalo	iP	37 14										
	Fordham	iP	37 42										
	Amboina	i	33 15										
	Hamburg	ez	38 37	22	8	11	24	24	24				
	Batavia	e	39							10 08	8750		
	Württemberg	eP	39 04										
Ottawa	e	45.5											
154	Nov. 5	Keizyô	eP ^o	20 41 27.2								Mongolia?	
		Zinsen	eS	41 48.5						3 55	2370		
		Taikyû	eP	42 15.6						3 52	2338		
		Nanking	iP	20 31 37									
Chiufeng	P	31 57		+ 8	- 6			8	13				

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
					N	E	Z	N	E	Z				
159	Nov.22	Keizyô	eP	12 25 18.3	μ	μ	μ	s	s	s	1 10.0	640		
		Heizyô	eP	26 49.8										
		Nanking	eP _E	12 23 13								2 18	1264	
		Chiufeng	e	27 40										
		Taikyû	P	12 50 50.3								2 30.0	1430	J. S. A. gives λ=150°E, φ=3°S The Bismark Is- lands.
		Zinsen	eP	51 05.6								6 57.0	5275	
		Keizyô	eP	51 07.1								6 58.4	530	
		Amboina	iP _N	12 47 17								4 01	2530	
		Batavia	iP	50 07										
		Malabar	P	50 31										
		Nanking	iP	51 07								7 04	5355	
		Medan	eP	51 31								8 03?	6500?	
		Chiufeng	iP	52 01	19	- 15	38	18	20	18		7 45	6079	
		Honolulu	e	52 11								7 43	6120	
		Sitka	eP	54 56								10 23	9350	
		Victoria	e	55 30										
		Pasadena	iP	55 36									11300	
		Hamburg	eP _Z	13 01.1	18	17	18	25	25	24				
		Württemberg	iP _Z	01 23.5	20	10	27	20	20	20		8 50?	14100	
		Cincinnati	iP	01 38										
Sucre	P	01 39												
La Paz	eP _N	01 44												
Saint Louis	PR _E	01 58												
Florissant	iPR _S	01 59												
Little Rock	ePR _J	02 01												
Ottawa	e	03.0												
160	Nov.22	Taikyû	eP	19 01 33.5							1 50.0	1020	Vicinity of Amami- Oosima, Kagosima Prefecture.	
		Zinsen	eP?	03 03										
		Keizyô	eP?	03 11.2										
161	Nov.22	Nanking	e	19 01 30							2 58	1635	Ditto.	
		Chiufeng	P	03 01	- 1	+ 2	- 3	10	10	10	2 57	1677		
161	Nov.22	Taikyû	eP	22 33 44.0							2 08.0	1200	Ditto.	
		Keizyô	eP	34 54.2							1 44.6	966		
		Zinsen	eP?	35 05							1 06.3?	603?		
		Heizyô	eP	36 38.0										
161	Nov.22	Nanking	P	22 34 00				20		7	2 38	1475	Ditto.	
		Chiufeng	P	35 27							3 01	1723		
162	Nov.23	Zinsen	eP	11 19 12.6									Sumatra.	
		Keizyô	eP	39 14.1							2 51.0	1650		
		Batavia	e	11 06 05							1 21	750		
		Medan	eP	07 10							1 41	940		
		Chiufeng	eP	18 09	+ 26	- 13	- 28	13	13	13	7 00	5264		
		Nanking	eP _N	18 41							7 25	5720		
		Württemberg	eP	16 44							5 54	4300		
		Hamburg	eP _Z	16 49	35	85	45	13	19	19	6 00	4400		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
		Pasadena	eZ	h m s	μ	μ	μ	s	s	s	m s	km		
		Sucre	eP?	29 24										
		Ottawa	eE	33										
		La Paz	Ls	12 10 00	+ 22			20						
163	Dec. 2	Zinsen	eP	8 47 12.0							3 16.0	1920	ESE off Daitō, Formosa.	
		Nanking	ePs	8 45 58										
		Chiufeng	eP	47 43							3 55		2366	
		Medan	e	49.1										
164	Dec. 4	Heizyō	iP	19 37 20.1							2 43.0	1620	(r) Eastern off the Sōya Strait (140km, northern off Abasiri, Hokkaidō.) λ=144.°0E, φ=45.°2N. Deep. Abnormally felt in southern part of Hokkaidō and NE part of Tōhoku districts.	
Keizyō	iP	37 21.7								2 43.1	1561			
Taikyū	iP	37 23.5								2 48.1	1621			
Zinsen	iP	37 23.8	- 71	+ 81	+ 32	5.4	5.9	3.2	2 46.9	1609				
Otomari		19 34 34.4	+520	+713		1.9	2.2		35.0	260				
Nemuro		34 54.4	+500	-690					47.6	354				
Sapporo		35 07.5	+3000	-3050	+621	2.7	2.1	3.4	55.6	413				
Akita		35 45.2		±172	+113		3.7	3.2	1 13.8	678				
Sendai		35 57.2	+151	+198	+ 70	4.5	4.5	2.6	1 33.1	860				
Wazima		36 22.8	-360	-418		3.1	3.3		1 54.1	1061				
Tōkyō		36 20.4	-310	+300	±280	4.6	3.4	4.0	2 10.3	1223				
Gihu		36 44.3	-250	+218	- 91	3.4	4.5	2.5	2 14.8	1268				
Kōbe		36 57.9	+196	+ 90	-103	5.7	5.5	5.8	2 25.8	1337				
Hamada		37 13.5	-610	+580	-690	4.8	6.0	4.6	1 29.7	827				
Kōti		37 16.0	± 40	± 50	± 20	4.0	4.5	4.0	2 39	1520				
Hukuoka		37 31.8	-110	± 63		3.8	2.8		2 55.2	1692				
Titi-zima		37 59.3	- 47	- 17		4.5	4.5		3 18.4	1946				
Naze		38 20.0							3 46.3	2273				
Taihoku		39 23							4 50	2320				
		Chiufeng	iP	19 33 18							3 36	2150		
		Nanking	iP	33 46							4 06	2510		
		Amboina	iP	42 17							6 53	5290		
		Medan	iP	43 20							6 36	5020		
		Batavia	iPz	43 42							7 58	6430		
		Saskatoon	iP	44 05							8 10	6670		
		Honolulu	r	44 32										
		Pasadena	iP	44 38							8 46	7930		
		Württemberg	iPz	45 17							9 16	8500		
		Madison	iP	45 24							9 25	8100		
		Ottawa	iPs	45 33							9 42	8440		
		Saint Louis	iPs	45 46							9 43	8450		
		Forlham	iP	46 02							9 53	8650		
		Georgetown	iP	46 02							9 53	8650		
		La Paz	ePz	52 43										
		Sucre	P	52 49										
		Hamburg	i	53 43										
		165	Dec.12	Taikyū	P	14 19 38.7							6 43.5	5025
		Keizyō	eP	19 56.6							6 53.8	5211		
		Zinsen	eP	19 56.8							6 54.4	5223		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Amboina	iP	h m s	μ	μ	μ	s	s	s	m s	km	
		Batavia	iZ	14 17 23									
		Nanking		19 31							7 01	5300	
		Medan	eP	20 00									
		Chiufeng	iP	20 45									
		Pasadena	iP	20 50							7 03	6015	
		Hamburg	ePz	24 20									
		Württemberg	iP'N	30 09	13	13	5	20	23	20			
		La Paz	eP'E	30 16							10 40?	14300	
		Sucre	eP'	30 31	+ 9	- 3		22	5			16700	
		Saint Louis	iP'N	30 34								16700	
		Florissant	i	30 36									
		Florissant	i	30 52									
166	Dec.15	Taikyū	eP	20 59 14.4									Felt rather strongly at Zensyū, Tyōsen.
167	Dec.20	Taikyū	eP	14 53 34.3									Ditto.
163	Dec.24	Zinsen	eP?	10 54 09.6							6 44.7?	5049?	New Britain?
		Amboina	iP	10 48 15							3 50	2320	
		Nanking	ePz	54 10									
		Chiufeng	eP	55 02							7 20	5742	
		Batavia	P	55 11							3 19?	2000?	
		Medan	e	55 15									
		Pasadena	iPz	59 08									
		Württemberg	iPS	11 16 38								14000	

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks			
				AN	AE	Az							
1	Jan. 1	Pz	h m s 8 59 07.9	μ	μ		S 4.9	∩ 0.7	7000? ^{km}	Africa?			
		PePz?	59 29.										
		SN?	9 07 36.8										
		ScSN?	08 33.0										
		ScSE	08 34.7										
		eLE	17 23.										
F	32 50.												
2	Jan. 3	ePE	15 30 16.2						1220?	ENE off Miyako.			
		eSE?	32 26.3										
		eLE	33 40.7										
		F	16 00 50.										
3	Jan. 3	PE	22 43 06.1						920	The Nippon Sea. Deep earth.			
		SN	44 46.5										
		F	50 30.										
4	Jan. 4	Pz	1 29 06.8						2100	SE off Titi-zima, the Bonin Islands.			
		PN	29 07.2										
		iz	29 10.1										
		in	29 10.2										
		ie	29 10.3										
		PR ₁ E	29 17.4										
		PR ₁ N	29 17.5										
		SN	32 39.1										
		eL	34 58.										
		F	Lost during change of record sheets										
5	Jan. 4	ePz?	4 09 11.8						6090?	Alaska.			
		ez	09 18.3										
		en	09 18.4										
		ePR ₁ Z	11 03.										
		cz	15 07.										
		SN	16 52.9										
		eLz	24 58.										
		ez	30 02.9										
		eH	31 03.										
		F	41 50.										
6	Jan. 7	e	4 09 57.							NE off Miyako.			
		eLN	12 31.										
		LE	13 17.										
		Lz	13 18.										
		MN	14 19.5								+ 340	17.6	
		ME	14 54.6								- 260		16.1
		Mz	15 46.3								+ 280		13.9
		C	21 40.										
F	5 13 50.												
7	Jan. 8	ePE	6 32 06.						1430?	Off the mouth of the River Mabuti, Ao- mori Prefecture.			
		ePz	32 09.7										

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks	
						AN	AE	AZ					
			h	m	s	μ	μ	μ	s	μ	km		
8	Jan. 9	eSe?	6	34	36.								
		eLN		35	44.								
		eLE		36	26.								
		eLz		36	29.								
		F		51	50.								
9	Jan. 10	Pz	2	09	32.0						4480?	NE part of Afghanistan.	
		eSz?		15	46.								
		eLz?		19	56.								
		Fz		38	40.								
10	Jan. 15	ePz?	3	12	47.7						870?	NW off Amami Oosima, Kagosima Prefecture.	
		eSzN		14	23.								
		F		20	50.								
11	Jan. 16	PE	18	10	05.6						5340	New-Guinea.	
		eN		10	16.8								
		ez		10	26.4								
		PRjz		12	17.5								
		PRjE		12	37.0								
		F		32	40.								
12	Jan. 21	P	11	27	13.7						146	SW part of Waiyôgun, Kogendô, Tyôsen. Felt in the epicentral region.	
		S		27	33.4								
		iE		27	34.6								
		F		29	10.								
13	Jan. 21	eE	16	38	12.6								
		FE		49	20.								
		eP'E	19	34	01.2							9820?	Indian Sea.
		eE		34	34.8								
		ePz		34	35.7								
		eE		35	51.8								
		eSez?		44	51.6								
		eEZ		47	15.8								
		eE		52	32.8								
		eE	20	12	19.8								
14	Feb. 3	M ₁ E		20	06.		± 70		16				
		eE		25	00.								
		M ₂ E		27	58.		± 30		15				
		F	21	04	40.								
		P	22	16	27.9					S 0.6	2400	Northern off the	
		P ₁ P		20	04.5					W 0.6		Urupp island, the Kurile Islands.	
15	Feb. 4	S		20	24.9					U 0.7			
		eL		22	00.0								
		F		45	±								
15	Feb. 4	PH	6	23	26.6					N+		WNW off Titi-zima,	
										E+		the Bonin Islands.	

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks		
				A _N	A _E	A _Z						
			h	m	s	μ	μ	μ	s	μ	km	
16	Feb. 9	FH	22	28	±							
		PEZ	3	59	25.9					N 0.0	1170	SW off the island of Hatizyô.
		PN		59	26.6					E 0.4		
		Sz	4	01	30.5					U 0.7		
		SE		01	31.3							
		SN		01	33.3							
F		07	30.									
17	Feb. 13	eP	2	55	08.					U+	3255	The Altai range.
		eSN	3	00	09.							
		eLz		03	57.							
		eLN		03	53.							
		C		11	54.							
		F		54	00.							
18	Feb. 13	eE	4	38	34.							
		eN		39	—							
		F		43	±							
19	Feb. 13	ePz	23	10	58.1						2340?	Eastern off the cape of Nosyappu, Hokkaidô district.
		ePE		11	00.2							
		eSE?		14	50.							
		eLE		17	59.							
		F		29	10.							
20	Feb. 19	P	4	29	16.7					N 1.1	1470	WSW off the island of Vonakuni.
		iPR ₁ N		29	22.0					W 1.1		
		iPR ₁ Z		29	22.5					U 1.1		
		eSz		31	51.							
		F		Lost in next quake								
21	Feb. 19	Pz	4	29	46.0						1640	
		PN		29	46.7							
		SE		32	31.							
		SN		32	32.							
		F	5	06	50.							
22	Feb. 23	eP'z	8	29	13.							Chile, Damage at Iquique.
		eP'N		29	15.							
		PR ₁ Z		33	27.							
		PR ₁ N		33	29.							
		ePR ₂ ?		36	24.							
		ePR ₂ E?		36	35.							
		eN		37	11.							
		eE		38	30.							
		eZ		39	09.							
		eN		39	12.							
		eE		39	55.							
		eZ		40	27.							
		eScPc-sPz?		43	26.							
eScPc-sPz?		43	27.									

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion		Δ	Remarks
				AN	AE	AZ		S	μ		
		SR _{1N}	8 53 11.								
		SR _{1E}	53 24.								
		eSR _{2Z}	59 12.								
		eSR _{2E}	59 26.								
		eSR _{2N}	59 28.								
		eI.H?	9 14 ±								
		M _{1N}	16 18.	- 149			48.				
		M _{1E}	16 20.		± 90		43.				
		M _{2E}	28 06.		± 65		33.				
		M _{2N}	29 02.	± 40			30.				
		M _{3E}	35 02.		± 59		25.				
		M _{3N}	35 07.	± 39			30.				
		M _{4E}	41 20.		± 65		26.				
		M _{4Z}	42 28.			± 48	25.				
		M _{4N}	43 02.	± 130			30.				
		F	10 25 ±								
23	Mar. 2	iP	17 34 19.2					S 1	1520		Strong earthquake off Sanriku, Great damage along Sanriku coast due to the tidal wave.
		iN	34 27.9					W 12			
		iN	34 35.2					U 9			
		S _N	36 58.								
		M _E	36 13.9		±7800		19.6				
		M _Z	38 41.0			±7500	18.5				
		M _N	39 22.6	±3700			11.9				
		C	13 01 10.								
		F	21 51 50.								
24	Mar. 2	P	18 29 33.1								
		F	Lost in principal quake								
25	Mar. 2	P	19 44 49.2								Ditto.
		F	Lost in principal quake								
26	Mar. 2	P	20 46 06.4								Ditto.
		F	Lost in principal quake								
27	Mar. 2	eI.	22 42 16.								Ditto.
		F	49 0.								
28	Mar. 3	P	1 20 26.3								Middle valley of the River Sensin, Zeura-hokudô, Tyôsen.
		S?	20 28.7								
		F	21 13.								
29	Mar. 3	eP	2 24 27.3								Philippine.
		e	24 33.								
		e	25 03.								
		e	28 37.								
		F	35 40.								
30	Mar. 3	P	4 41 05.3								After shock of No.23
		eI.	45 01.								

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	AZ				
		F	^h 4 ^m 57 ^s 0.	μ	μ	μ	s	μ	km	
31	Mar. 3	e F	5 38 07. 40 00.							Ditto.
32	Mar. 3	P i e F	9 16 01. 16 10.9 19 13. Lost in next quake							Ditto.
33	Mar. 3	P eL F	9 41 55.3 46 03. Lost in next quake							Ditto.
34	Mar. 3	P e e F	10 07 39.2 08 09. 11 11. 22 00.							Ditto.
35	Mar. 3	P F	10 35 10.5 50 00.							Ditto.
36	Mar. 3	eL F	12 04 18. 09 30.							Ditto.
37	Mar. 3	P eL F	12 17 12.3 21 47. 28 00.							Ditto.
38	Mar. 3	eP eL F	15 05 25.2 09 53. Lost in next quake							Ditto.
39	Mar. 3	eP eL F	15 10 13.6 14 00. 31 00.							Ditto.
40	Mar. 3	eL F	15 59 32. 16 03 00.							Ditto.
41	Mar. 3	P eL F	16 15 07.1 18 56. 28 00.							Ditto.
42	Mar. 3	P eL F	19 10 19.2 14 13.0 24 00.							Ditto.
43	Mar. 8	P SN eL.	1 38 50.4 41 33.8 42 22.						1560	Ditto.

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks	
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	km		
44	Mar. 11	F ex F	14	43	±							Ditto.	
45	Mar. 11	P i S ig in PcS F	19	35	59.1						1430	WNW off Titi-zima, the Bonin Islands.	
46	Mar. 12	eL F	5	12	11. ±							After shock of No.23	
47	Mar. 17	P PcP S PcS L ScS eF	16	01	41.1						3250	The Aleutian Islands.	
48	Mar. 17	eS? eL? eF	19	43	17. 46 13. 20 20 —							Mindanao.	
49	Mar. 18	iP eS e L PcP eF	15	54	17.2				3.0 3.0 3.0	S E D	2 7 4	1465	Southern off the island of Hatizyô.
50	Mar. 23	ePe? eE eE eE eLN? F	17	42	28.8								Mongolia, May be another quake.
51	Mar. 25	P e S i F	12	52	09.8							533	Neighbourhood of Mt. Aso.
52	Mar. 31	ePe? eSn? eLn?	22	04	39.8							2020?	Mongolia ?

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
			h	m	s	AN	AE	AZ				
		F	22	27	±	μ	μ	μ	s	μ	km	
53	Apr. 1	ePN?	16	02	04.						920	After shock of No.23
		ePE		02	10.5							
		ePz		02	11.5							
		eSN		03	43.9							
		eSE		04	5.3							
		eN		05	4.							
		eLN		05	51.5							
		eLE		06	11.							
		eLz		06	17.							
		ME		07	30.		± 18		12			
		MN		07	1.	± 20			13			
		F		29	0.							
54	Apr. 1	PE	22	44	18.1						1600	Ditto.
		SE		47	04.1							
		eL		48	34.							
		F		23	03 ±							
55	Apr. 2	eLN?	10	16	37.1							Ditto.
		F		24	±							
56	Apr. 9	PE	2	49	49.3							Ditto.
		LN		52	25.2							
		MN		55	49.0	± 93			10.8			
		Mz		56	35.3			± 51	11.0			
		ME		56	57.2		± 47		12.9			
		F		3	38 00.							
57	Apr. 9	ePE?	10	33	17.							Ditto.
		F		50	±							
58	Apr. 19	ePE	2	58	57.8						1550	Ditto.
		eSN		3	01 40.							
		eLN		03	05.							
		F		14	00.							
59	Apr. 19	iP	6	48	00.9					N 5.9	1530	Mouth of the River
		SE		50	40.7					E 1.4		Daidakusui, Formosa.
		LE		51	01.5					U 1.6		
		C		58	57.							
		F		7	53 00.							
60	Apr. 23	ePE	6	09	15.8						8320	Near the island of
		ePcPE		09	41.3							Kos, Asia Minor.
		ePRI		12	0 ±							
		eSN		18	51.9							
		eScSN		21	06.							
		eLN		34	39.3							
		F		7	09 00.							

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
61	Apr. 23	ePE	ⁿ 7	^m 16	^s 51.3	^μ	^μ	^μ	^s	^μ	6120	After shock of No.23
		ePN		16	53.3							
		eLN		19	13.7							
		Mz		22	59.3			+ 94	12.6			
		MN		23	06.8	- 47			11.2			
		ME		23	07.7		- 49		11.2			
		F	Lost in next quake									
62	Apr. 23	eP	8	29	11.3						6120	Ditto.
		eL?		32	45.9							
		F		45	00.							
63	Apr. 27	ePN	2	45	32.9						6120	Alaska.
		ePz		45	33.4							
		ePE		45	36.3							
		S		53	15.5							
		eL	3	02	18.							
		ME		12	02.0		- 126		12.3			
		Mz		12	12.2			± 382	13.8			
		MN		12	14.1	- 173			12.3			
F	4	17	30.									
64	May 1	eP	18	34	22.8						2270?	Near the island of Etorohu, the Kurile Islands.
		eS?		38	09.							
		eL?		40	59.							
		F		56	00.							
65	May 1	eLN?	19	04	31.5						2270?	Ditto.
		F		03	00.							
66	May 1	ePN	19	55	22.0						2040	Southern off the island of Etorohu, the Kurile Islands.
		ePE		55	26.4							
		eNE		57	11.1							
		eS		58	49.1							
		eLN	20	00	28.7							
		F		30	00.							
67	May 3	eLN	23	34	23.1						2905	The River Daidakusui, Formosa.
		ePeNE		37	24.							
		eE		38	20.							
		eSE?		38	59.							
		F		49	20.							
68	May 8	eL?	11	35	03.						2905	Mexico.
		F		12	06 50.							
69	May 12	eL	16	24	54.						2905	Mexico.
		F		31	30.							
70	May 16	ePE	1	20	06.9						4460	North Sumatra.
		ePN		20	08.9							

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks		
				AN	AE	Az						
		ePz	^h 1	^m 20	^s 09.7	μ	μ	μ	s	μ	km	
		eSN		26	19.3							
		eSE		26	21.1							
		ScS?		30	26.3							
		eL		32	06.9							
		F	2	14	π							
71	May 19	eL	19	08	32.							The Atlantic Ocean.
		F		28	50.							
72	May 21	ePE	11	58	26.9					1730		SSE off the island of Hatizyô.
		eSEN	12	01	25.5							
		eLN		02	54.							
		F		13	50.							
73	May 22	eP?	20	47	48.6							Hyôga-nada, Miyazaki Prefecture.
		F		50	50.							
74	May 23	ePE?	16	38	24.2					770		Ditto.
		eS		39	48.0							
		eL		40	34.0							
		F		50	20.							
75	May 23	e	16	55	05.							Ditto.
		eL		55	49.7							
		F	17	03	40.							
76	June 2	PNZ	7	40	37.3					N 2.6 W 0.7 D 2.3	860	Miyakonozyô, Miyazaki Prefecture.
		PE		40	37.6							
		Sz		42	11.1							
		SN		42	17.							
		C		45	09.							
		F	8	19	50.							
77	June 3	ePz	17	11	20.8						1070	Neighbourhood of Amami Oosima, Kagosima Prefecture.
		eE		12	46.1							
		eSE		13	16.							
		eSN		13	23.							
		LE		14	00.							
		C		17	00.							
		F		50	30.							
78	June 6	PN	2	33	44.0						2730	Philippine.
		eSN		38	10.6							
		F		51								
79	June 7	Pz	11	51	25.9					Down.	2745	Burma.
		ePE		51	26.3							
		eSz		55	49.9							
		eSN		55	51.							
		eSE		55	53.							

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	AZ				
		F	h	m	s	μ	μ	μ	s	μ	km	
			Lost in next quake									
80	June 7	PN	11	59	03.5						1470	
		Pz		59	15.							
		Sz	12	01	37.5							
		SE		01	44.							
		F		22	20.							
81	June 8	ePE	18	14	06.0						1520	ENE off Miyako, Iwate Prefecture.
		eSN		16	44.6							
		eLN		17	48.1							
		F		54	40.							
82	June 12	ePZE	21	11	17.4							Kisen-numa, Miyagi Prefecture.
		eL.E?		15	00.							
		F		20	30.							
83	June 13	eP	20	36	47.7						1490?	Eastern off the mouth of the River Mabuti, Aomori Prefecture.
		eSN?		39	24.							
		LN		40	28.							
		F		21	04	40.						
84	June 13	e	22	51	47.							Alaska.
		F		58	50.							
85	June 18	PN	21	40	34.1					S 4.3 W 20.3	1310	Eastern off Kinkasan, Miyagi Prefecture.
		PE		40	34.5							
		SN		42	53.1							
		LE		44	03.							
		ME		44	10.6				23			
		MN		45	09.7	± 330	± 950		13			
		C		51	10.							
		F		23	42	00.						
86	June 24	ePz.	22	03	19.						5600	Sumatra.
		ePE		03	20.							
		ePN		03	21.							
		e		04	05.							
		PR ₁ Z		05	27.0							
		PR ₁ N		05	28.0							
		PR ₁ E		05	30.							
		ePcSN		09	53.							
		SE		10	34.							
		SR ₁		13	57.							
		ME ₁		26	07.4		± 230		14			
		MN ₁		26	12.2	± 290			13			
		ME ₂		28	28.2		± 140		11			
		MN ₂		29	42.2	- 480			16			
		Mz		31	7.1			+ 280	14			
		C		43	30.							

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	AZ				
			h m s	μ	μ	μ	s	μ	km	
	25	F	0 06 40.							
87	July 3	eL? F	15 26 32. 36 20.							
88	July 9	P F	1 34 09. Uncertain							SE off the island of Etorohu, the Kurile Islands.
89	July 9	P eS eL F	9 32 26.4 36 11.1 38 01.2 Lost in next quake						2260	Ditto.
90	July 9	P eS eL.N F	9 52 37.7 56 27.5 58 21. 10 50						2320	Ditto.
91	July 9	ePE? eSN? eLE eLN F	11 25 35. 29 51.0 33 16. 33 37. 46 30.						2640	Ditto.
92	July 9	P eN SN SE LE MN ME C F	12 34 59. 38 23. 38 46.1 38 51.2 40 12. 41 02.0 42 22.5 12 48 45. 14 18 40.	- 337	± 174		20.6 • 16.3		2280	Ditto.
93	July 9	eLE ePN eSE eSN eLN F	16 11 19. 11 24. 15 10. 15 11. 17 13. 38 40.						2331	Eastern off the cape of Nosyappu, Hokkaidô district.
94	July 9	e F	17 56 06. 18 10 30.							Ditto.
95	July 9	e F	22 22 24. 40 40.							Ditto.
96	July 10	P SN eL F	0 25 00. 27 37.6 29 16. Lost during adjusting instrument						1510	Eastern off Kamaisi, Iwate Prefecture.

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	Az				
97	July 10	PN L? F	^h 10 ^m 41 ^s 20.4 47 43. 11 09 40.	μ	μ	μ	S	μ	km	Borneo.
98	July 11	eLN? F	6 06 13. 12 30.							Off the coast of Kuzūkuri, Tiba Prefecture.
99	July 11	e eLN F	6 53 00. 56 40. 7 03 40.							ESE off Katura, Tiba Prefecture.
100	July 12	PE PN SN SE F	16 18 37.1 18 37.4 18 43.0 18 43.1 19 32.						43.8	Local, Felt slightly at Keizyō.
101	July 13	ee eN eLN? F	8 00 14. 00 26. 02 21. 22 50.							WNW off the island of Okuziri, Hokkaidō district.
102	July 14	iP S F	16 05 21.2 06 46.3 13 40.				S 4.0 W 2.7		780	Off Vladivostock.
103	July 18	eSE F	11 28 44.3 36 40.							Ditto.
104	July 18	e F	19 10 18. 44 30.							Philippine.
105	July 19	e F	13 40 27. 57							Alaska.
106	July 19	PH SE? F	15 07 56.1 14 23.8 38 50.						4735?	Alaska.
107	July 19	e F	21 00 20. 07 50.							
108	July 20	PE eLN? F	23 17 22.1 22 23. Lost in microseismus							Eastern off Kinkasan, Miyagi Prefecture.
109	July 22	ePz ePE eSE eSN eSz	21 03 34. 03 39. 10 20. 10 21. 10 26.						5070	Aleutian.

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
			h	m	s	μ	μ	μ	s	μ	km	
110	July 24	eSS _N	21	13	22.				1.4	W 2.6	730	Southern off Vladivostock,
		eSS _E		13	32.							
		eSS _S _N		15	31.							
		eL _Z		17	46.							
		F	22	02	50.							
111	July 23	eP _Z ?	16	46	50.						940?	WSW off Wakayama.
		eS _Z ?		48	32.2							
		F		51	20.							
112	Aug. 4	eI _N	17	47	10.							
		F		51	30.							
113	Aug. 5	eP _E ?	1	00	42.							The Solomon Islands.
		eE		01	2.							
		eN		01	6.							
		eE		01	24.							
		eN		09	31.							
		eL _N ?		13	21.							
F		23	00.									
114	Aug. 11	eP _E	8	59	40.3						3095	North Burma.
		eS _E	9	04	30.5							
		eE		04	39.5							
		eL _E		07	57.							
		M _N		09	04.0	+ 90		13.0				
		M _E		11	3.2		- 57	13.1				
		M _Z		11	7.6			- 78				
F		33	±			12.5						
115	Aug. 14	eE	22	21	07.4							
		F		23	00.							
116	Aug. 15	iP	3	01	48.0					S 2.1 E 5.8 D 6.8	1875?	NNE off Titi-zima, The Bonin Islands.
		S		05	00.?							
		eL?		07	27.							
		F		14	00.							
117	Aug. 18	eE	8	22	34.							
		eE		23	42.							
		F		29	±							
118	Aug. 20	eP _E ?	11	50	03.8							SE part of Luzon.
		eE		50	50.1							
		eE		52	05.8							
		eE		52	51.0							
		eE		54	41.8							

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
			h	m	s	μ	μ	μ	S	μ	km	
119	Aug. 25	eE	12	01	25.8						2305	Between Prov. of Szechuen and Kansu, China.
		eE		15	48.0							
		eE		22	07.							
		F		25	00.							
		eP	7	54	58.							
		Sz		58	46.							
		SE		58	48.							
		MZ ₁		59	04.2			- 239	7.2			
		MN ₁		59	04.7	+ 132			6.9			
		ME ₁		59	06.5		+ 260		7.4			
		Lz	8	03	39.							
		LE		00	42.							
		MN ₂		01	14.9	- 262			6.8			
		MZ ₂		02	47.4			+ 420	8.0			
CE		15	17.									
FE	9	34	00.									
120	Aug. 28	P _{1z}	22	39	28.3						South Atlantic Ocean.	
		eP _{1E}		39	34.							
		P _{2z}		39	36.5							
		eP _{2E}		39	44.3							
		P _{2z}		39	50.							
		eN		43	22.							
		ez		43	24.3							
		ez		46	34.							
		ez		56	32.							
		ME	23	54	18.2		\pm 54		18.5			
120	29	MN		54	20.5	\pm 25			18.5			
		Fz	00	52	00.							
121	Sept. 2	P	16	44	04.						1250	Southern off the island of Hatizyô.
		S		46	17.							
		SR ₁ ?		46	37.							
		SR ₂ ?		46	56.							
		PcS?		55	31.							
		F		Lost in microseismus								
122	Sept. 6	P	22	19	30.2						7740	The Fiji Islands.
		ePR ₁ ?		21	42.							
		ePR ₂ ?		22	45.							
		eSN		28	37.							
		eSE		28	44.							
		eSR ₁ ?		32	24.							
		eI.?		36	42.							
		e		52	16.							
		F		57	00.							
123	Sept. 9	P	5	04	28.8						86]	Neighbourhood of Vladivostock.
		iS	5	06	03.0							

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion		Δ	Remarks				
						AN	AE	AZ		μ	μ			μ			
135	Nov. 6	eP? eS F	^h 7 ^m 27 ^s 16.7	^h 27 ^m 27 ^s 48.4	^h 16.7 ^m 48.4 ^s ±	μ	μ	μ	s	μ	km	Middle coast of Zentr-ahokaidô, Tyôsen.					
136	Nov. 20	iP _N (eP _E) iP _Z ePK _{1Z} ePK _{2N} ePR _{2Z} iS _N eL _E M _Z M _E M _N F	23 32 35 36 36 41 53 0 07 11 19	32 32 09.5 54.7 56.0 44.9 42.2 06 08.2 37.2 ±	39.7 39.8 09.5 54.7 56.0 44.9 42.2 50.4 08.2 37.2 ±	- 1.9	-	+ 5.8 ± 13	4.1 8.6	15.9 15.8 14.1	± 217	- 350	μ	S E U	1.9 - 5.8	7704	Baffin Bay.
137	Nov. 22	eP _E ? eS _E F	12 25 34	24 56.2 ±	54.0 56.2 ±							460?	NW part of Amami-Oosima, Kagosima Prefecture.				
138	Nov. 22	eP _E eS _E F	12 58 13	51 02.6 ±	05.6 02.6 ±							5275	The Bismark Islands.				
139	Nov. 22	eP _E ? eS _E F	19 04 17	03 00.6 ±	03. 00.6 ±							427?	Vicinity of Amami-Oosima, Kagosima Prefecture.				
140	Nov. 22	eP _E ? eS _E F	22 36 22	35 11.3 ±	05. 11.3 ±							603?	Ditto.				
141	Nov. 28	eP _E ? eL _E ? F	11 41 12	19 43.5 ±	12.6 43.5 ±							7700?	Sumatra.				
142	Dec. 2	eP _N eS _E eL _E F	8 53 9	47 28.0 14.0 ±	12.0 28.0 14.0 ±							1920	ESE off Daitô, Formosa.				
143	Dec. 4	iP _N iP _E iP _Z iE _N iZ iS _E iS _N iS _Z M _{1E} M _{2E}	19 37 37 38 38 40 40 40 40 40	37 24.0 23.4 51.4 55.1 10.7 15.0 13.9 22.3 54.5	23.8 24.0 23.4 51.4 55.1 10.7 15.0 13.9 22.3 54.5	+ 7.4	+ 9.3	- 9.5	2.7 2.7 3.2	N 7.4 E 9.3 D 9.5	1609	Eastern off the Sôya strait.					
									3.7 5.9								

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
		M _N	h	m	s	μ	μ	μ	μ	km		
		M _Z	19	40	54.5	- 71			5.4			
		C _N		41	06.9			+ 32	3.2			
		C _E		41	07.8							
		C _Z		41	06.5							
		F	20	06	±							
144	Dec. 12	eP _{EN}	14	19	56.3					5223	New Britain.	
		i _{SN}		26	51.2							
		i _{SE}		26	53.2							
		F		52	±							
145	Dec. 24	eP?	10	54	09.6					5049?	New Britain?	
		eS?	11	00	54.3							
		F	13	22	±							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
1	Jan. 1	eP eS F	h 8	m 59	s 03.0	μ	μ	s	μ	km 6940	Africa?
2	Jan. 3	P LN MN ME F	15	30	14.6	\pm 50	— 70	16 13			ENE off Miyako.
3	Jan. 3	PE SN F	22	43	03.0					900	The Nippon Sea. Deep earth.
4	Jan. 4	P i PR ₁ PR ₂ SN iE iE iE eL F	1	29	04.8					2020	SE off Titi-zima, the Bonin Islands.
5	Jan. 4	P S F	4	09	02.0					6220	Alaska.
6	Jan. 7	P LN LE MN ME C F	4	09	51.4	+ 240	+ 190	14 13			NE off Miyako.
7	Jan. 8	eP e F	6	32	03.2						Off the mouth of the River Mabuti, Aomori Prefecture.
8	Jan. 9	P S F	2	09	33.1						NE part of Afghanistan.
9	Jan. 10	P S F	3	13	01.0					730	NW off Amami-Oosima, Kagosima Prefecture.
10	Jan. 15	P PR ₁	18	10	26.5					5035	New-Guinea.

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			b	w	s	μ	μ	s	μ	km	
11	Jan. 16	S	18	17	10.8					124	SW part of Waiyô-Gun, Kô-gendô Tyôsen. Felt in the epicentral region.
		F		39	±						
		P _N	11	27	09.8						
		P _E		27	10.0						
		S		27	26.4						
		i _E		27	26.9						
12	Jan. 21	eP _N ?	16	38	13.3					9530	Indian Sea.
		F		45	±						
13	Jan. 21	eP	19	34	33.2					2375	Northern off the island of Urupp, the Kurile Islands.
		eS		45	10.2						
		eE	20	52	10.						
		eI.?		00	12.						
14	Feb. 3	F	21	15	±					3205	The Altai range.
		P	22	16	25.4						
		P _c P		20	10.6						
		iS		20	20.7						
		eL		24	23.4						
15	Feb. 4	F		52	±					1160	SW off the island of Hatizyô.
		P	6	23	12.2						
		i _E		23	16.0						
16	Feb. 9	F		32	±					2375	Eastern off the cape of Nosyappu, Hokkaidô district.
		P	3	59	23.8						
		i _E		59	28.7						
		S	4	01	28.1						
		L		03	02.3						
17	Feb. 13	F		15	+					1568	WSW off the island of Yonakuni.
		P	2	55	07.0						
		PR ₁		55	39.8						
		S	3	00	04.0						
		L		03	18.0						
18	Feb. 13	F		50	±					2375	Eastern off the cape of Nosyappu, Hokkaidô district.
		P	23	10	55.7						
		S		14	50.7						
		L		19	03.7						
19	Feb. 19	F		36	±					1568	WSW off the island of Yonakuni.
		P	4	29	13.5						
		PR _{1N}		29	23.1						
		e		29	47.5	Probably be P of another quake					
		S		32	02.3						
19	Feb. 19	eS		32	42.5	Probably be S of another quake					
		eS		32	42.5						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			h	m	s	μ	μ	s	μ	km	
20	Feb. 21	F	5	0	+						
		e	18	17	24.4						
21	Feb. 23	F		29	±					9795	Chile, Damage at Iquique.
		P	8	29	16.0						
		S		40	05.0						
		L		53	24.0						
		M _{JE}	9	28	26.2		± 54	26.0			
		M _{JN}		35	03.2	± 81		26.0			
		M _{SE}		41	13.1		± 57	22.0			
		M _{EN}		42	18.5	± 76		22.0			
F	10	14	+								
22	Mar. 2	P	17	34	16.6				1450	Strong earthquake off Sanriku, Great damage along Sanriku coast due to the tidal wave.	
		S _N		36	48.3						
		C _E	18	11	00.3						
		e	20	47	28.5						
		F	21	58	00						
23	Mar. 2	P	18	29	30.4					After shock of No. 22.	
		S?		32	35.4						
		F				Lost in principal quake					
24	Mar. 2	I?	19	45	02.5					Ditto.	
		F				Lost in principal quake					
25	Mar. 2	P	20	46	03.7					Ditto.	
		F				Lost in principal quake					
26	Mar. 2	eI.	22	42	18.6					Ditto.	
		F		50	±						
27	Mar. 3	P	0	21	21.5				2290	Ditto.	
		S		25	09.7						
		F		37	±						
28	Mar. 3	P	1	20	23.0					Middle valley of the River Sensin, Zenra-hokudô, Tyô-sen.	
		F		21	10.						
29	Mar. 3	P _N	2	24	34.4				2485	Philippine.	
		S _N		28	38.0						
		F		42	±						
30	Mar. 3	P	4	41	02.0				2350	After shock of No. 22	
		eI.		44	55.2						
		F	5	03	±						
31	Mar. 3	P	9	15	59.0				1570	Ditto.	
		PR ₁		16	08.0						
		S		18	43.2						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
		L	9	19	48.0						
		ME		21	36.1		- 21	10.0			
		MN		22	40.8	+ 24		13.0			
		F	Lost in next quake								
32	Mar. 3	P	9	41	49.2					1500	Ditto.
		S		44	26.0						
		L		46	22.0						
		F	Lost in next quake								
33	Mar. 3	P	10	08	00.0					1280	Ditto.
		PR ₁		08	06.2						
		S		10	16.0						
		L		13	4.0						
		F	Lost while changing records.								
34	Mar. 3	P	10	35	27.4					1690	Ditto.
		S		38	22.0						
		L		40	20.0						
		F		52	±						
35	Mar. 3	P	11	59	34.0					1610	Ditto.
		S		12	02	21.2					
		L		04	20.0						
		F		13	±						
36	Mar. 3	P	12	17	06.2					1875	Ditto.
		S		20	18.0						
		L		22	25.0						
		F		36	±						
37	Mar. 3	P	15	05	23.7					1680	Ditto.
		PR ₁		05	31.9						
		S		08	17.9						
		LE		09	23.9						
		F	Lost in next quake.								
38	Mar. 3	P	15	10	24.9					1520	Ditto.
		S		13	03.9						
		L		14	07.9						
		F		34	±						
39	Mar. 3	P	15	54	11.4						
		L		58	47.8						
		F		16	09	±					
40	Mar. 3	P	16	15	04.8					1745	Ditto.
		S		18	05.2						
		L		19	07.8						
		F		31	±						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
41	Mar. 3	P	h	m	s	μ	μ	s	μ	km	Ditto.
		S	19	10	32.7						
		L	13	11.7							
		F	15	09.7							
42	Mar. 8	P	1	38	48.0					1320	Ditto.
		S	41	03.0							
		L	42	10.0							
		F	57	±							
43	Mar. 11	eP	14	25	57.1					1790	Ditto.
		eS	29	01.5							
		L	30	31.1							
		M _{JE}	32	19.2							
		M _N	33	10.2	± 21						
		M _{JE}	38	25.2	± 30						
		F	52	±	± 26						
44	Mar. 11	P	19	35	57.1					1470	WNW off Titi-zima, the Bon-in Islands.
		i	37	01.9							
		e	38	09.1							
		S	38	31.1							
		PcS	46	50.1							
		F	20	19	±						
45	Mar. 12	eP	5	09	07.8					1400	After shock of No. 22.
		eS	11	35.0							
		eL	12	42.0							
		F	29	±							
46	Mar. 17	P	16	01	23.4					3155	The Aleutian Islands.
		S	06	17.6							
		L	08	08.6							
		M _N	17	27.1	- 10						
		M _E	17	30.3	± 19						
		F	17	21	±						
47	Mar. 17	eP	19	38	01.1					2540	Mindanao.
		eS	42	18.8							
		L	46	04.8							
		M _N	54	23.5	± 50						
		M _E	55	52.3	± 50						
		F	21	03	±						
48	Mar. 18	P	15	54	15.1					1310	Southern off the island of Harizyô.
		S	56	34.1							
		L	58	49.9							
		F	16	25	±						
49	Mar. 23	P	17	42	32.6						Mongolia.
		e	43	39.3							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
		e	h	m	s	μ	μ	S	μ	km	
		L	17	46	11.6	May	be	another			quake
		F	18	23	±						
50	Mar. 25	P	12	52	08.8?					507	Neighbourhood of Mt. Aso.
		eSE		53	04.8						
		L _N		53	17.1						
		F	13	09	±						
51	Mar. 31	eP	22	04	34.3					2795?	Mongolia?
		eE		04	42.9						
		eS?		09	02.7						
		eL		12	43.7						
		F		27							
52	Apr. 1	P	16	02	06.6						After shock of No. 22.
		L		05	30.4						
		M _N		06	58.6	± 8		11.0			
		M _E		07	47.0		- 25	12.0			
		F		47	±						
53	Apr. 9	P	2	49	45.3						Ditto.
		L _N		52	10.1						
		L _E		53	06.3						
		M _E		54	41.3		+ 81	15.0			
		M _N		55	37.1	+ 76		12.0			
		F	3	49	±						
54	Apr. 9	P	10	33	34.1					1340?	Ditto.
		eS?		35	56.1						
		L		37	25.3						
		F		59	±						
55	Apr. 19	P	2	58	51.8					1570	Ditto.
		S	3	01	35.8						
		L _N		03	03.0						
		F		13	±						
56	Apr. 19	iP	6	48	01.8				N 6.8	1585	Mouth of the River Daidakusui, Formosa.
		S		50	46.6				E 2.3		
		L		52	36.8						
		M _E		52	48.6		- 61	4.2			
		F	7	44	±						
57	Apr. 23	P	6	09	18.8					8220	Near the island of Kos, Asia Minor.
		P _{R1}		11	57.6						
		S		18	51.0						
		eL _E		34	08.0						
		F	7	12	±						
58	Apr. 23	P	7	16	48.2						After shock of No. 22.

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
		L	19	20.2							
		ME	22	40.2		+ 70		12.0			
		MS	23	03.2		± 55		12.0			
		F	Lost in next quake								
59	Apr. 23	eP	8	29	08.2?					1240	Ditto.
		S		31	30.2						
		L		33	26.2						
		F		58	±						
60	Apr. 27	eP	2	45	32.8					6050	Alaska
		ePR ₁		47	25.2						
		ePR ₂		48	13.8						
		ePR ₃		49	03.0						
		ePcS?		50	05.6						
		S		53	11.8						
		ScS		55	07.8						
		eSR ₁		57	22.8						
		eL		02	02.7						
		ME		10	04.6		± 165	14.0			
		MS		12	25.8	+ 72		13.0			
		F	4	38	±						
61	May 1	P	18	34	19.1					2245	Near the island of Etrohu, the Kurile Islands.
		S		38	03.1						
		L		40	13.1						
		F	Lost in next quake.								
62	May 1	P?	18	57	13.1						Ditto.
		i	19	04	20.1						
		F		29	±						
63	May 1	P	19	55	23.1					2290	Southern off the island of Etrohu, the Kurile Islands.
		S		59	11.1						
		eL	20	00	38.0						
		F		32	±						
64	May 3	P	23	34	27.0					2825	The River Daidakusui, Formosa.
		PcP?		37	05.0						
		S		38	57.0						
		eE		40	57.0						
		eE		43	59.0						
		F		51	±						
65	May 8	eL	11	34	05.0						Mexico.
		F		59	±						
66	May 12	eE	16	21	06.6						
		e?		25	45.6						
		F		38	±						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
67	May 16	P	^h ^m ^s Lost while changing record					1790	North Sumatra.
		I.	1 34 10.9						
		ME	1 35 59.2	+ 64		13.7			
		F	2 20						
68	May 19	eI.	19 09 00.4					1790	The Atlantic Ocean.
		F	28 —						
69	May 21	P	11 58 33.3					1790	SSE off the island of Hatizyô.
		S	12 01 33.7						
		L	03 05.7						
		F	21 ±						
70	May 22	P	20 47 39.4					1790	Hyûga-nada, Miyazaki Prefecture.
		F	21 02						
71	May 23	P	16 38 22.5					1790	Ditto.
		L	40 33.5						
		F	Lost in next quake						
72	May 23	eP	16 53 35.5					1790	Ditto.
		L	55 50.5						
		F	17 12 ±						
73	June 2	P	7 40 37.3					810	Miyakonozyô, Miyazaki Prefecture.
		SN	42 05.3				N 0.9 W 0.4		
		eL	42 42.3						
		MN	42 58.9	+ 37		4.8			
		ME	42 59.4		+ 117	5.2			
		C	45 38.						
		F	8 16 ±						
74	June 3	P	17 11 25.3					950	Neighbourhood of Amami-Oosima, Kagosima Prefecture.
		S	13 09.0						
		L	13 57.2						
		F	55 ±						
75	June 6	P	2 33 45.5					2745	Philippine.
		S	38 09.1				N 1.6 E 1.0		
		L	41 08.9						
		F	3 00 ±						
76	June 7	PE	11 51 30.6					2600	Burma.
		eSE	55 43.2						
		F	Lost in next quake.						
77	June 7	ePE?	12 00 07.2					1042?	
		SE	01 59.2						
		ME	02 08.3	- 81		15.0			
		F	33 ±						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
			h	m	s	μ	μ	s	μ	km		
78	June 8	PE	18	14	04.5						ENE off Miyako, Iwate Prefecture.	
		LE		17	42.5							
		ME		19	16.7		+ 36	16.0				
		F	19	11	±							
79	June 12	P	21	11	13.8						Kisen-numa, Miyagi Prefecture.	
		eL		14	30.							
		F		31	±							
80	June 13	P	20	36	44.0					1510	Eastern off the mouth of the River Mabuti, Aomori Prefecture.	
		eSN		39	21.3							
		LN		40	19.0							
		F	21	11	±							
81	June 18	P	21	40	30.2					S 1.5 W 7.3	1330	Eastern off Kinkasan, Miyagi Prefecture.
		SN		42	51.2							
		LE		43	34.2							
		LN		44	10.2							
		MN		45	00.4	+ 326		13.0				
		ME		45	01.3		- 470	15.0				
		C		48	28.							
		F		Lost while changing record								
82	June 24	ePE	22	03	38.1					5340	Sumatra.	
		ePcSE		09	36.							
		SE		10	39.							
		SRLE		13	35.							
		LE		21	43.							
		ME	25	26	19.2		- 330	14.0				
		F		0	57	±						
83	July 3	eL?	15	26	47.3							
		F		47	±							
84	July 9	PE	1	34	21.5					1940	SE off the island of Etorohn, the Kurile Islands.	
		SE		37	30.5							
		eE		38	10.5							
		LE		40	00.0							
		ME		41	35.6		- 78	17.0				
		CE		47	56.0							
		FE		3	01	±						
85	July 9	PE	9	32	18.6					2010	Ditto.	
		SE		35	42.4							
		LE		38	00.0							
		ME		39	34.7		-44	16.0				
		FE		Lost in next quake								
86	July 9	PE	9	52	34.6					Ditto.		
		eE		55	03.6							
		FE	11	00	±							

6. The Seismic Reports of Keizyo Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			h	m	s	μ	μ	s	μ	km	
87	July 9	eP _E ?	11	25	37.0					2510	Ditto.
		eS _E		29	37.6						
		eL _E		32	50.6						
		F _E	Lost in next quake								
88	July 9	P _E	12	34	57.4					2332	Ditto.
		eE		38	22.6						
		S _E		38	53.6						
		L _E		40	53.0						
		M _E		42	24.1		— 221	16.0			
		F _E	14	38	±						
89	July 9	eP _E ?	16	11	28.0					2340	Eastern off the cape of Noyappu, Hokkaido district.
		eS _E		15	20.0						
		eL _E ?		17	44.0						
		F _E	17	04	±						
90	July 9	eP _E ?	17	55	47.					2450	Ditto.
		eS _E		59	48.						
		eL _E	18	02	11.						
		F _E		26	±						
91	July 9	eP?	22	19	13.					2680?	Ditto.
		eS		23	32.						
		eL		26	17.						
		F		48	±						
92	July 10	eP _E	0	24	52					1430	Eastern off Kamaisi, Iwate Prefecture.
		eS _N		27	29.						
		eL		29	13.						
		F		51	±						
93	July 10	P _N	10	41	22.9				S 3.	4729	Borneo.
		S _E		47	50.5						
		eE		51	03.5						
		F	11	11	±						
94	July 11	eP _E	6	02	40.						Off the coast of Kuzyokuri, Tiba Prefecture.
		eL _E		07	05.						
		F		21	±						
95	July 11	P _E	6	52	59.?						ESE off Katura, Tiba Prefecture.
		L _E		57	09.						
		F	7	17	±						
96	July 12	P	16	18	32.9					15.5	Local. Felt slightly.
		S		18	35.0						
		M		18	35.2	— 33		0.6			
		F		19	24.0						
97	July 13	eL _E	8	00	08.						WNW off the island of Oku-

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
98	July 14	eL	8 02 26.	± 12	± 15	12.0	S W	852	ziri, Hokkaidô district.
		ME	03 58.8						
		MN	04 21.0						
		F	31 ±						
99	July 18	iP	16 05 19.4				3	780	Off Vladivostock.
		iS	06 42.6						
		F	23 ±						
100	July 18	ePE	11 27 10.					3640?	Philippine.
		eSE	28 35.						
		eLE	28 59.						
		F	41 ±						
101	July 19	ePE?	19 12 19.					4795	Alaska.
		eSE?	17 45.						
		eLE?	21 57.						
		FE	59 ±						
102	July 19	ePE	13 40 24					4720	Alaska.
		eSE	46 55.						
		eE	49 57.						
		F	14 26 ±						
		P	15 07 53.7						
103	July 19	eSE	14 21.						
		eE	14 23.						
		eLE	21 57.						
		F	58 ±						
		eE	20 59 01.						
104	July 20	eE	21 04 21.					2026	Eastern off Kinkasan, Miyagi Prefecture.
		F	17 ±						
		PE	23 17 18.4						
		SE	20 44.0						
105	July 22	LE	22 04.0						Aleutian.
		FE	29 ±						
		eN	21 22 57.						
		F	45 ±						
106	July 24	W 2.9	988						Southern off Vladivostock.
		iPE	8 39 32.7						
		SE	41 19.5						
		LE	42 12.5						
107	July 24	FE	50 ±						SW to Samoa.
		eE	19 08 13.						
		eE	17 33.						
		eE	23 21.						
		eE	32 17.						

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No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				A _N	A _E				
		F _E	h m s 19 58 ±	μ	μ	s	μ	km	
108	July 28	eP? iN iN eN eE F	16 46 40.1 47 37.1 48 11.3 48 35.6 48 44.6 56 ±						WSW off Wakayama,
109	Aug. 4	eE eLE? FE	17 43 13.3 47 32.7 55 ±						
110	Aug. 5	eS? eL? F	1 10 08.0 15 03.0 24 ±						The Solomon Islands,
111	Aug. 11	P S L M _N M _E C F	8 59 43.9 9 04 27.5 Lost while changing record 10 51.6 ± 31 11 18.9 13. 06.9 44 ±			10.0 12.0		3009	North Burma,
112	Aug. 14	eP eS? eL? F	22 21 12.2 25 33.0 30 18.0 49 ±					2702	
113	Aug. 15	P S L F	3 01 44.1 04 43.? 07 06.3 27 ±				S 2 E 5	1730?	NNE off Titi-zima, the Bonin Islands.
114	Aug. 18	eE LE? FE	8 22 22. 24 03. 33 ±						
115	Aug 25	P S M _{E1} L M _{E2} F	7 55 03.8 58 49.0 59 14.1 8 00 55.0 3 20.0 9 55 ±		+ 227 - 344	6.5 9.0		2262	Between Prov. of Szechuen, and Kausu, China.
116	Aug. 28	P _E eSE eE Fe	22 39 33.4 45 26.4 58 15. Lost out of record					4105	South Atlantic Ocean.

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
117	Sept. 2	iPE	b	m	s	μ	μ	s	E μ 5.0	km 1217	Southern off the island of Hatzizô.
		eSE	16	44	04.4						
		ME	46	14.1							
		F	46	39.8							
118	Sept. 6	ePN	17	16	±	+ 47	± 41	2.9 5.3		7740	The Fiji Islands.
		eSN	22	19	28.8						
		F	23	10	±						
			28	35.3							
119	Sept. 9	iPN	5	04	27.2	+ 47	± 41	2.9 5.3		854	Neighbourhood of Vladivostock.
		iSE	05	59.6							
		ME	06	06.6							
		MN	06	13.9							
		F	18	±							
120	Sept. 21	ePE	3	16	28.6		- 70	10.0		843	The Strong Earthquake of Noto, Isikawa Prefecture.
		eSE	17	59.9							
		ME	20	10.7							
		F	42	±							
121	Sept. 21	ePE	9	51	03.2	± 230		14.0		2535	SE off Miyako, Iwate Prefecture.
		eL	54	51.7							
		MN	56	16.1							
		F	10	16	±						
122	Sept. 21	ePE	13	45	12.5					2535	ESE off Miyako.
		eSE	49	25.0							
		F	14	00	±						
123	Sept. 24	ePE	15	27	22.6					4424	The Aleutian Islands.
		eSE	33	33.8							
		eLE	36	35.7							
		F	16	35	±						
124	Sept. 25	ePE	18	57	42.		± 180	13.2		3769	Tibet.
		eSE	19	03	15.7						
		eL	07	44.6							
		ME	12	14.5							
		F	30	±							
125	Sept. 30	ePN	14	28	48.8					4440	New Guinea.
		eSE	35	00.8							
		eLE	33	00.8							
		F	15	13	±						
126	Oct. 2	eP?	15	50	20						The Pacific Ocean.
		F	18	13	±						
127	Oct. 3	iPE	18	41	13.1			13.0			Central part of Niigata Prefecture.
		eL	43	44.1							
		ME	45	08.5							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
			h m s	μ	μ	s	μ	km	
128	Oct. 5	F eP eS? eL? ME F	19 15 \pm 13 56 21.5 59 17.3 14 02 30.5 05 55.6 42						Persia.
129	Oct. 21	eP eL MN ME F	2 47 21.2 51 46.2 54 49.4 54 49.5 3 19 \pm	\pm 19					SE off the cape of Nozima, Tiba Prefecture.
130	Oct. 26	eP? eL? F	0 02 14. 12 01. 1 00 \pm						North Chile.
131	Nov. 2	eP eS L F	12 34 48.8 41 02.4 45 43.8 13 23 \pm					4472	Aleutian.
132	Nov. 5	eL? F	20 41 27.2 21 00 \pm						Mongolia?
133	Nov. 6	eP F	7 27 22.2 37 \pm						Middle coast of Zourahokudô, Tyôsen.
134	Nov. 20 21	P S L ME F	23 32 42.2 41 18.2 54 37.0 0 05 22.4 1 21 \pm						7130 Baffin Bay.
135	Nov. 22	eP S F	12 25 18.3 26 28.3 40 \pm					640	NW part of Amami-Oosima, Kagosima Prefecture.
136	Nov. 22	eP eS L	12 51 07.1 58 05.5 13 04 17.3					5301	The Bismark Islands.
137	Nov. 22	eP? F	19 03 11.2 22 \pm						Vicinity of Amami-Oosima, Kagosima Prefecture.
138	Nov. 22	eP S F	22 34 54.2 36 38.8 23 05 \pm					966	Ditto.
139	Nov. 28	eP	11 39 14.1					1650	Sumatra.

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				A _N	A _E				
		eS	h m s	μ	μ	s	μ	km	
		I _N	11 42 05.1						
		eI _E	44 10.9						
		F	12 15 ±						
140	Dec. 4	iP	19 37 21.7					1561	Eastern off the Sôya strait.
		S	40 04.8						
		F	20 10 ±						
141	Dec. 12	eP	14 19 56.6					5211	New Britain.
		eS	26 50.4						
		eI	32 10.6						
		F	15 00 ±						

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks	
				AN	AE					
1	Jan. 1	ePN? eSN? ScSN? eF	^h 8 ^m 59 ^s 38.3 9 07 20.4 08 18.1 17 20.	μ	μ	s	μ	6105? ^{km}	Africa?	
2	Jan. 3	P eSN? LN F	15 30 11.2 32 40.0 33 29.5 53 20.					1420?	ENE off Miyako.	
3	Jan. 4	P S L F	Lost during the change of record sheets							Alaska.
4	Jan. 7	e L M ₁ N M ₁ E M ₂ N C F	4 09 45.0 12 08. 14 03.2 17 02.0 17 12.2 22 35. 5 06 10.	+ 130 - 115	+ 92	18 13 13			NE off Miyako.	
5	Jan. 8	P eLN F	6 31 56.0 34 50. 49 40.						Off the mouth of the River Mabuti, Aomori Prefecture.	
6	Jan. 16	S F	11 28 18.5 29 31.7						SW part of Waiyôgun, Kôgendô, Tôjosen.	
7	Jan. 21	en en en en en MN F	19 41 41. 45 53. 47 18. 52 43. 08 16. 16 31.2 28 20.	\pm 58		16			Indian Sea.	
8	Feb. 3	eP S F	22 16 25.3 20 17.3 36 \pm					2340	Northern off the island of Urupp, the Kurile Islands.	
9	Feb. 9	PE SE F	3 59 00.9 4 00 44.9 09 00.					960	SW off the island of Hatizyô.	
10	Feb. 13	eLN? en F	3 04 55.7 07 06.7 27 -						The Altai range.	
11	Feb. 19	P	4 29 06.6					1340	WSW off the island of Yonakuni.	

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks	
				AN	AE					
12	Mar. 2	PR _i	h m s 4 29 11.6	μ	μ	s	μ	1400	Strong earthquake off Sanriku. Great damage along Sanriku coast due to the tidal wave.	
		eN	30 05.6	May be P of another quake						
		SE	31 28.4							
		eN	32 33.6	May be S of another quake						
		Changed paper at 4 ^h 32 ^m 40 ^s								
		F	40 00							
		P	17 34 05.9				S 11			
		S	36 33.				W 14			
		L	37 28.6							
		C	51 59.0							
ME	38 37.0		+4545	20.8						
MN	39 37.0	+9091		17.8						
F	21 15 10.									
13	Mar. 2	P	18 29 26.0						After shock of No. 12.	
		F	Lost in principal quake							
14	Mar. 2	P	19 44 48.4						Ditto.	
		F	Lost in principal quake							
15	Mar. 2	P	20 45 53.2					1640	Ditto.	
		S	48 43.							
		eL	49 19.0							
		ME	51 40.8		+ 125	12.7				
		F	Lost in principal quake							
16	Mar. 3	P	1 19 08.3					97	Middle valley of the River Senzin, Zenrahokudô, Tyôsen.	
		S	19 21.3							
		F	21 12.3							
17	Mar. 3	eL	2 28 29.6						Philippine.	
		eF	36 10.							
18	Mar. 3	eP	4 40 42.2						After shock of No. 12	
		eF	55 10.							
19	Mar. 3	P	9 15 51.4					1530	Ditto.	
		S	18 31.4							
		L	19 28.9							
		F?	41 11.4							
20	Mar. 3	eP	9 41 40.2					1420	Ditto.	
		eS	44 18.2							
		eL	45 22.							
		eF	10 05 10.							
21	Mar. 3	eP	10 07 23.9						Ditto.	
		eF	20 10.							
22	Mar. 3	P	10 35 12.4						Ditto.	

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No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
			h m s	μ	μ	s	μ	km	
		F	10 47 11.4						
23	Mar. 3	P	11 59 33.6						Ditto.
		F	12 10 11.2						
24	Mar. 3	P	12 16 54.2						Ditto.
		e	23 37.2	May be another quake					
		F	30 11.2						
25	Mar. 3	eP	15 05 12.7						Ditto.
		ePR ₁	05 23.5						
		F	Lost in next quake.						
26	Mar. 3	eP	15 10 12.9					1450	Ditto.
		ePR ₁	10 25.0						
		eS	12 44.8						
		eL	13 33.8						
		F	27 10.8						
27	Mar. 3	eP	15 53 14.9						Ditto.
		F	16 00 10.8						
28	Mar. 3	eP	16 14 51.0						Ditto.
		F	21 10.8						
29	Mar. 3	eP	18 50 17.7						Ditto.
		F	56 11.5						
30	Mar. 3	eP	19 10 24.5					1500	Ditto.
		eS	13 01.5						
		eL	14 02.5						
		F	19 10.5						
31	Mar. 3	eP	19 53 33.3						Ditto.
		F	58 10.3						
32	Mar. 3	eP	20 23 17.6						Ditto.
		F	28 10.2						
33	Mar. 7	P	12 57 52.2					4	Felt slightly, Local.
		S?	57 52.7						
		F	58 02.8						
34	Mar. 9	P	3 46 17.0					16	Felt slightly, Local.
		S	46 19.2						
		F	46 38.0						
35	Mar. 11	eL	14 28 38.8						After shock of No. 12.
		MN	33 56.4	- 110		19.7			
		ME	33 56.5		+ 111	17.5			
		F	53 20.						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
36	Mar. 11	P	h	m	s	μ	μ	s	μ	1329	WNW off Titi-zima, the Bonin Islands.	
		S	19	34	13.7				S 9			
		PcS		36	34.8				E 8			
		F	20	00	30.							
37	Mar. 17	eP?	16	03	22.7						The Aleutian Islands.	
		L?		12	55.3							
		F		36	40.							
38	Mar. 17	eP?	19	38	40.7						Mindanao.	
		L		47	02.3?							
		F	20	18	20.							
39	Mar. 18	iP	15	53	50.5					1170	Southern off the island of Hattizyô	
		e		54	54.8							
		S		55	55.3							
		F	16	09	40.							
40	Mar. 23	ePE?	17	42	57.0						Mongolia.	
		eN		46	44.	May be another quake						
		e		47	51.2							
		F	18	09	30.							
41	Mar. 25	P	12	51	27.4					332	Neighbourhood of Mt. Aso.	
		S		52	11.9							
		F		59	30.							
42	Apr. 1	P	16	01	56.3						After shock of No. 12	
		L		05	56.0							
		F		19	10.							
43	Apr. 1	P	22	44	06.9						Ditto.	
		F		53	10.							
44	Apr. 9	eP	2	49	27.6					1480	Ditto.	
		S		52	02.6	disturbed by microseismus						
		L		53	10.6							
		MN		54	50.9	+ 140	13.2					
		F	3	20	—							
45	Apr. 9	eP	10	33	22.1						Ditto.	
		F		41	—							
46	Apr. 19	P	6	47	51.5					1460	Mouth of the River Daidakusui, Formosa.	
		S		50	24.1				N 2.8			
		L		52	07.0				E 7.0			
		ME		52	31.9							
		F	7	29		- 64	4.5					
47	Apr. 23	eP	6	09	15.						Near the island of Kos, Asia Minor.	
		F	7	00	40.							

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No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks	
				A _N	A _E					
48	Apr. 23	P	h m s 7 16 38.6	μ	μ	s	μ	940	After shock of No. 12.	
		S	18 20.6							
		L	20 54.6							
		F	7 48 37.6							
49	Apr. 23	P	8 28 56.5					6120	Ditto.	
		F	40 40.							
50	Apr. 27	P	2 45 38.2					6120	Alaska.	
		S	53 21.5							
		L	3 00 51.7							
		F	4 15 31.0							
51	May 16	eP	1 20 12.7					4420	North Sumatra.	
		eS _N	26 23.3							
		eS _E	26 28.3							
		eSR ₁ ?	29 42.3							
		eL	32 56.7							
		F	57 00							
52	May 21	P	4 37 25.1					666	Ditto.	
		F	37 41.3							
53	May 22	eP	20 46 40.0					800	Miyakonozyô, Miyazaki Prefecture.	
		eF	49 00.0							
54	May 23	eP	16 37 52.9					800	Neighbourhood of Amami-Oosima, Kagosima Prefecture.	
		S	39 05.5							
		L	39 23.9							
		F	49							
55	May 23	eP	16 53 09.5					2350?	Philippine.	
		eL	54 36.							
		F	17 04 ±							
56	June 2	P	7 40 06.8				N 3.1 W 1.9	800	Miyakonozyô, Miyazaki Prefecture.	
		S	41 33.6							
		F	8 11 50.							
57	June 3	P	17 11 01.3					2925	Burma.	
		S	12 28.6							
		C	18 00.							
		F	47 20.							
58	June 6	eP _N	2 33 31.8					2925	Burma.	
		eS _N ?	37 25.							
		eL _E	40 14.							
		F	57 40.							
59	June 7	P	11 51 39.0					2925	Burma.	
		S	56 16.5							

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
			h	m	s	μ	μ	s	μ	km		
		F	Lost in next quake									
60	June 7	eP F	11	59	58.5							
			12	22	40.							
61	June 8	P S eLN F	18	13	56.1					1421	ENE off Miyako, Iwate Prefecture.	
				16	25.2							
				17	08.							
				32	30.							
62	June 12	eP F	21	11	01.9						Kisen-numa, Miyagi Prefecture.	
				18	50.							
63	June 13	P S L F	20	35	39.4					1441	Eastern off the mouth of the River Mabuti, Aomori Prefecture.	
				38	10.5							
				39	14.							
				58	20.							
64	June 18	P S LE? C F	21	40	19.6			6.7 7.2	S 7.8 W 36.0	1205	Eastern off Kinkasan, Miyagi Prefecture.	
				42	28.1							
				43	17.							
				46	08.							
			23	08	0J.							
65	June 24	eP eS eSR ₁ MN ME C 25 F	22	03	28.1					5235	Sumatra.	
				10	23.1							
				14	06.							
				25	22.6	± 220						
				25	28.9		± 289	11.0 12.9				
				34	15.							
			0	00	10.							
66	July 9	P SN SE eLN F	1	34	19.9					2245	SE off the island of Etorohu, the Kurile Islands.	
				38	03.9							
				38	10.8							
				39	14.							
			2	03	40.							
67	July 9	eP S L F	9	32	21.2					2210	Ditto.	
				36	02.2							
				38	28.2							
			Lost in next quake									
68	July 9	P S L F	9	52	34.1					2270	Ditto.	
				56	20.1							
				58	42.1							
			10	20	50.							
69	July 9	P eN eSE	12	34	53.0					2090	Ditto.	
				38	01.							
				38	29.							

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
			h	m	s	μ	μ	s	μ	kin		
70	July 9	S _N	12	38	44.					2270?	Eastern off the cape of Nosyap- ppu, Hokkaidô district.	
		I.		40	10.0							
		C		49	41.							
		F	13	47	00.							
		eP _N ?	16	11	23.							
eP _E ?		11	25.									
eS _E ?		15	09.									
eS _N ?		15	13.									
F		32	20.									
71	July 9	e	17	59	35					Ditto.		
		F	18	08	40.							
72	July 9	e	22	22	44.					Ditto.		
		F		33	50.							
73	July 10	P	0	24	43.0				N 0.4 E 1.6	1430?	Eastern off Kamaisi, Iwate Prefecture.	
		eS?		27	13.0							
		F		39	40.							
74	July 10	P	10	41	05.0					Borneo.		
		I?		47	19.0							
		F		59	05.0							
75	July 11	P	6	52	40.2					ESE off Katçura, Tiba Prefecture.		
		eI.E?		56	58.							
		F	7	03	40.							
76	July 13	e	8	00	05.0					WNW off the island of Oku- ziri, Hokkaidô district.		
		eL.E?		02	20.							
		F		21	30.							
77	July 14	P	16	05	30.7			2.1 1.8	S 5.5 W 1.1	850	Off Vladivostock.	
		S		07	02.7							
		F		18	50.							
78	July 18	eP _N	11	26	45.					712	Ditto.	
		S		28	03.6							
		F		41	00.							
79	July 13	eP	19	10	58.3					2922?	Philippine.	
		eS?		15	36.							
		eL?		18	44.							
		F		36	10.							
80	July 19	e	13	40	24.						Alaska.	
		eE		46	48.							
		eN		46	52.							
		F		49	20.							

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
81	July 19	eP eSE eSN F	^h 15 ^m 07 ^s 54.8 14 18. 14 20. 19 30.	μ	μ	s	μ	^{km} 4645	Alaska.
82	July 19	e F	21 03 41. 09 30.						
83	July 20	P F	23 17 08.4 overlapped by Microseismus						Eastern off Kinkasan, Miyagi Prefecture.
84	July 22	P S eSR _{1N} eSR _{1E} eSR ₂ eI.E F	21 03 38.5 10 28.5 13 27. 13 28. 15 41. 17 08. 58 50?					5145	Aleutian.
85	July 24	P S F	8 39 41.8 41 07.4 47 20.				S 6.1 W 2.0	790	Southern off Vladivostock,
86	July 28	eI.E eS? F	16 45 00.5 45 55.0 55 40.					405?	WSW off the city of Wakayama.
87	Aug. 11	eI.E eE SN SE I. F	8 59 53.7 9 04 20.1 04 58.1 04 59.3 07 25.4 45 25.					3325	North Burma.
88	Aug. 15	P S F	3 01 20.3 04 15.3 14 35.					1690	NNE off Titi-zima, the Bonin Islands.
89	Aug. 20	P S I. F	11 50 03.3 54 22.3 56 46.3 Lost in next quake					2610	SE part of Iazon.
90	Aug. 20	P S F	12 11 09.3 15 22.3 26 20.					2600	Ditto.
91	Aug. 22	e eF	13 21 51.4 29 50.						
92	Aug. 25	P	7 55 16.7			2.3	S 1.2	2350	Between Prov. of Szechuen and Kansu, China.

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
		S	h 7 59 09.5	μ	μ	s	W μ 8.2	km	
		L	8 01 29.5						
		ME	05 35.8		± 405	10.9			
		MN	06 11.4	± 187		7.5			
		C	19 24.9						
		F	9 22 10.						
93	Aug. 27	P	23 42 19.7					28	Local.
		S	42 23.4						
		F	42 45.						
94	Aug. 28	P	22 39 36.1					2110?	South Atlantic Ocean.
		e	40 26.3						
		S?	43 09.4						
		L?	50 18.6						
	29	F	0 50 0.						
95	Aug. 29	P?	12 33 59.						SE off the mouth of the River Abukuma, Miyagi Prefecture.
		eF	39 30.						
96	Sept. 2	P	16 43 33.1					1130	Southern off the island of Hatzizô.
		S	45 34.1						
		ME	45 57.7		$+ 57$	5.0			
		MN	45 58.1	$+ 42$		5.4			
		C	55 28.1						
		F?	17 16 52.1						
97	Sept. 6	eP	22 19 17.4					7540	The Fiji Islands.
		e	21 18.4						
		S	23 14.4						
		F	55 —						
98	Sept. 9	P	5 04 39.9					965	Neighbourhood of Vladivostock.
		S	06 24.4						
		F	16 54.9						
99	Sept. 21	eP	3 16 12.5					760	The Strong Earthquake of Noto, Isikawa Prefecture.
		S	17 35.5						
		F	31 52.5						
100	Sept. 21	P	9 50 51.0						SE off Miyako, Iwate Prefecture.
		F	10 07 00.9						
101	Sept. 24	eP	15 27 24.3					3945	The Aleutian Islands,
		S	33 03.3						
		F	45						
102	Sept. 25	eP	19 02 39.6					4945	Tibet.
		S	09 18.2						
		L	12 59.1						
		F	49 05.6						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
103	Oct. 2	eL eF	n 15	m 52	s 23.6	μ	μ	s	μ	km	The Pacific Ocean.
104	Oct. 3	P S LE LN F	18	40	56.0					1100	Central part of Niigata Prefecture.
				42	54.0						
				44	01.7						
				45	19.7						
			19	01	44.7						
105	Oct. 5	eP eS? eL? F	13	55	57.3						Persia.
				57	07.1						
			14	01	16.5						
				19	42.1						
106	Oct. 9	eP F	12	09	43.3						Upper valley of the River Dôsi, Kanagawa Prefecture.
				20							
107	Oct. 21	P S L F	2	47	03.3					1190	SE off the cape of Nozima, Tiba Prefecture.
				49	10.7						
				51	47.9						
			3	03	00.7						
108	Nov. 5	eP F	20	42	15.6						Mongolia?
				47	04.6						
109	Nov. 6	P S F	7	26	06.5					203	Middle coast of Zenrahokudô, Tyôsen.
				26	43.9						
				34	03.9						
110	Nov. 20	P S L	23	32	49.5					7940	Baffin Bay.
				42	06.5						
				53	39.5						
	21	F	0	51	10.5						
111	Nov. 22	eP F	12	25	07.4						NW part of Amami-Oosima, Kagosima Prefecture.
				35							
112	Nov. 22	P S L F	12	50	50.3					1430	The Bismark Islands.
				53	20.3						
				58	17.3						
			13	28	—						
113	Nov. 22	eP S L F	19	01	33.5					1020	Vicinity of Amami-Oosima, Kagosima Prefecture.
				03	23.5						
				05	18.5						
				16							
114	Nov. 22	eP S L F	22	33	44.0					1200	Ditto.
				35	52.0						
				33	36.0						
				59	—						

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks				
						A _N	A _E								
115	Dec. 4	iP	h	m	s	μ	μ	S	E	km	Eastern off the Sôya strait.				
		S	19	37	23.5							3.1	4.3	1621	
		i		40	11.6							3.6	N		6.9
		F	20	02	18.										
116	Dec. 12	P	14	19	38.7					5025	New Britain.				
		S		26	22.2										
		F		37	48.4										
117	Dec. 15	eP	20	59	14.4						Felt rather strongly at Zensyû, Tyôsen.				
		eF		59	25.8										
118	Dec. 20	eP	14	53	34.3						Ditto.				
		eF		53	57.5										

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			h	m	s	μ	μ	s	μ	km	
1	Jan. 7	eP eL? eF	4	09	57.6 12 36.6 24 50.						NE off Miyako.
2	Jan. 16	eP eF	11	28	40.0 29 50.						SW part of Waiyōgun, Kōgen-dō, Tyōsen.
3	Feb. 13	eL? e eF	3	05	16.7 08 57.7 18 06.7						The Altai range.
4	Mar. 2	P S F	17	34	02.5 36 45.5 19 13 00.					1560	Strong earthquake off Sanriku. Great damage along Sanriku coast due to the tidal wave.
5	Mar. 3	P S? F	1	19	03.5 19 18.5 21 40.					111	Middle valley of the River Sensin, Zenrahokudō, Tyōsen.
6	Mar. 8	eP eS eF	10	28	26.3 29 13.3 31 50.3					349	Iyo-nada, Ehime Prefecture.
7	Mar. 11	P e eF	19	35	28.9 36 11.9 39 50.9						WNW off Titi-zima, the Bonin Islands.
8	Mar 25	eP S F	12	51	03.7 51 40.7 56 07.7					275	Neighbourhood of Mt. Aso.
9	Apr. 19	P F	6	47	41.7 7 02 05.8						Mouth of the River Daidakusui, Formosa.
10	June 2	P S F	7	39	55.7 41 07.0 47 —					650	Miyakonozyō, Miyazaki Prefecture.
11	June 3	P eL eF	17	10	55.9 13 20.3 17 30.						Neighbourhood of Amami-Oosima, Kagosima Prefecture.
12	June 18	P eS eL F	21	40	28. 42 35. 44 08. 52 20.					1190	Eastern off Kinkasan, Miyagi Prefecture.
13	June 24	e e eF	22	13	12. 21 27. 45 00.						Sumatra.

S. The Seismic Reports of Husan Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
14	July 18	cP?	h	m	s	"	"	s	"	km	Off Vladivostock.
		S	7	33	06.5						
		L		34	04.5						
		F		34	39.5						
15	Aug. 25	e	8	00	00.	Time uncertain					Between Prov. of Szechuen and Kansu, China.
		L		05	—						
		F		36	—						
16	Sept. 2	P	16	42	56.5	Time uncertain				1040	Southern off the island of Hatzizyô.
		S		44	48.5						
		F		55	44.5						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
1	Jan. 1	P	h m s 8 59 54.0					km 6500?	Africa ?
		PcPe	9 00 32.7						
		SE?	07 57.4						
		ScSe?	08 59.7						
		eLe?	13 12.						
2	Jan. 3	F	31 40.						
		PE	15 30 18.5						ENE off Miyako.
		LE	24 09.5						
		F	50 30.						
3	Jan. 4	ePN	1 29 21.9					2400	SE off Titi-zima, the Bonin Islands.
		ePe	29 23.1						
		SN	33 18.5						
		SE	33 20.8						
		eLe	35 40.4						
		F	2 02 00						
4	Jan. 7	P	4 09 54.7						NE off Miyako.
		eLe	13 08.5						
		ME ₁	14 22.6	± 56	20				
		ME ₂	16 09.5	± 25	15				
		MN	16 51.3	+ 35	15				
		F	Lost during the change of record sheets.						
5	Jan. 8	ePe	6 32 03.						Off the mouth of the River Mabuti, Aomori Prefecture.
		iE	32 15.0						
		F	44 30.						
6	Jan. 16	PE	11 27 15.1					153	SW part of Waiyôgun, Kôge-ndô, Tyôsen, Felt in the epicentral region.
		SE	27 35.8						
		F	28 20.						
7	Jan. 21	P	16 38 14.6						
		F	44 00						
8	Jan. 21	ePe	19 34 40.1						Indian Sea.
		eE	38 37.0						
		eE	44 56.4						
		eE	47 24.9						
		eE	52 43.4						
		ME	18 54.						
9	Feb. 3	F	45 20.						
		PE	22 16 20.4					2350	Northern off the island of Urupp, the Kurile Islands.
		SE	20 13.1						
		eLe?	23 14.5						
F	41 —								
10	Feb. 13	ePe	2 54 59.5						The Altai range.
		eLe?	3 03 11.1						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
		F	h m s 3 50 —	μ	μ	s	μ	km	
11	Feb. 19	P eE L.E? F	4 29 34.7 33 07.1 34 13.1 42 30.0						WSW off the island of Yonakuni.
12	Feb. 23	ePe eE eE F	8 28 54.1 33 17.3 51 35.9 10 13 50.0						Chile, Damage at Iquique.
13	Mar. 2	eP iP SN L MNI MEI MNEZ CN F	17 34 21.5 34 24.4 37 14.6 38 47.0 39 40.3 40 03.8 41 13.0 55 40.0					1670	Strong earth quake off Sanriku, Great damage along Sanriku coast due to the tidal wave.
			Lost in next quake						
14	Mar. 2	P F	19 44 58.2						After shock of No. 13
			Lost in principal quake						
15	Mar. 2	P S LN F	20 47 08.7 49 44.1 52 06.2 21 34 20.0					1450	Ditto.
16	Mar. 3	P F	2 24 49.8 41 20.0						Philippine.
17	Mar. 3	P eS L F	9 16 07.9 18 50.2 20 02.2					1550	After shock of No. 13
			Lost in next quake						
18	Mar. 3	P eSE L F	9 41 58.1 44 50.6 46 02.1					1665	Ditto.
			Lost in next quake						
19	Mar. 3	eSe? L F	10 10 07.0 11 32.0 35 20.0						Ditto.
20	Mar. 8	Pe eLe F	1 38 55.9 42 41.2 58 —						Ditto.

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
21	Mar. 11	iP	^h 19	^m 36	^s 16.9	μ	μ	s	μ	1655 ^{km}	WNW off Titi-zima, the Bonin Islands.
		iS		39	03.4						
		F	20	09	50.0						
22	Mar. 17	eP	16	01	29.2					3155	The Aleutian Islands.
		eS		06	23.2						
		L	11		23.7						
		F	56		40.0						
23	Mar. 17	eP	19	39	30.6					3095	Mindanao.
		eS		44	20.6						
		LE?		49	22.6						
		F	20	32	40.0						
24	Mar. 18	iP	15	54	33.9					1185	Southern off the island of Ifatizyô.
		eSe?		56	41.4						
		LE		58	24.6						
		F	16	14	30.0						
25	Mar. 23	eP	17	42	14.4						Mongolia.
		eE		43	19.8						
		eE		45	34.6						
		i		47	12.9						
		L		48	33.1						
		F	18	07	30.0						
26	Mar. 25	eLE	12	53	04.0					530	Neighbourhood of Mt. Aso.
		S		54	15.4						
		F	13	01	—						
27	Apr. 1	P	16	02	11.9					1416?	After shock of No. 13.
		eSe?		04	40.5						
		LE?		06	28.5						
		M		07	27.5						
		F	25		40.0						
28	Apr. 3	PN?	1	46	20.4					121?	Local.
		L?		46	36.6						
		F		43	20.0						
29	Apr. 9	PE	2	49	55.4					1320?	After shock of No. 13.
		Se?		52	15.9						
		ME		55	15.9						
		F	3	26	—						
30	Apr. 19	iP	6	48	23.8					1730	Mouth of the River Daidakusui, Formosa.
		iS		51	15.9						
		LN		53	22.3						
		ME		53	30.3						
		C		55	21.7						
		F	7	28	—						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
31	Apr. 23	P	h	m	s	μ	μ	s	μ	km	After shock of No. 13
		LE	7	17	00.6						
		ME		21	11.4						
		F		22	48.0						
32	Apr. 27	P				\pm	8	14.4		5855	Alaska,
		S	2	45	33.1						
		LE		53	01.6						
		ME	3	01	14.1						
		ME		11	39.1						
		F		12	05.1						
33	May 16	eL?								4175?	North Sumatra.
		S	1	20	26.1						
		LE		26	23.6						
		ME		32	26.2						
		F		37	34.6						
34	May 23	eLE									Hyûga-nada, Miyazaki Prefecture.
		F	1	20	26.1						
				26	23.6						
				32	26.2						
35	May 23	LE									Ditto.
		F	2	19	30.0						
			16	55	44.1						
36	June 2	P								1010	Miyakonozyô, Miyazaki Prefecture.
		S	7	41	04.3						
		F		42	53.3						
37	June 3	P								1375?	Neighbourhood of Amami-Oosima, Kagosima Prefecture.
		SE?	7	41	04.3						
		ME		42	53.3						
		F		8	04						
38	June 6	P									Philippine.
		F	17	00	47.0						
39	June 7	P								2560	Burma.
		SE	2	33	55.5						
		e		49	40.						
		F		59	24.1						
40	June 8	Pe									ENE off Miyako, Iwate Prefecture.
		F	11	51	27.7						
				55	37.5						
41	June 12	P									Kisen-nuna, Miyagi Prefecture.
		Pe	11	51	27.7						
		F		59	24.1						
42	June 13	Pe									Eastern off the mouth of the River Mabuti, Aomori Prefecture.
		eL?	18	13	36.3						
		F		23	30.						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
43	June 18	P	^h 21	^m 40	^s 53.0	μ	μ	S	μ	1390	Eastern off Kinkasan, Miyagi Prefecture.
		S _N		43	19.4						
		I _E		44	25.4						
		M _E		45	40.1						
		F	22	22	—						
44	June 24	P	22	03	27.4					6070	Sumatra.
		S		11	07.3						
		S _{K1}		14	31.						
		I.		19	28.						
		M _E		25	54.4						
		M _N		27	50.0						
		F	23	18	—						
45	July 9	P	1	34	23.4					2320	SE off the island of Etorohu, the Kurile Islands.
		S		33	13.4						
		F	2	15	40.0						
46	July 9	P	12	35	05.8					2360	Ditto.
		S		38	59.8						
		I _E ?		43	49.						
		F	13	34	—						
47	July 9	e	16	19	48.						Eastern off the cape of Nosy-appu, Hokkaidô district.
		F		25	50.						
48	July 10	P	0	25	01.7					1540?	Eastern off Kamaisi, Iwate Prefecture.
		eS _N ?		27	43.						
		eI _E ?		29	09.						
		F		53	—						
49	July 14	P	16	05	14.6					725	Off Vladivostock.
		S		06	34.1						
		F		14	—						
50	July 18	eS _N ?	11	27	34?						Ditto.
		F		12	47						
51	July 20	P	23	17	27.8						Eastern off Kinkasan, Miyagi Prefecture.
F	Lost during the change of record sheets.										
52	July 22	eP	21	03	39.6					4845	Aleutian.
		eS _E		10	13.5						
		eS _{K1} I _E ?		13	41.						
		F	22	07	50.						
53	July 24	P	8	39	29.3					690	Southern off Vladivostock.
		S _E		40	45.5						
		F		49	20.						
54	July 28	eF _E ?	16	47	34.8					1450?	WSW off Wakayama.

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
55	Aug. 11	cSE?	16	50	07.3					2560?	North Barma.
		F		59	30.						
		P	8	59	20.9						
		Se?	9	03	30.5						
56	Aug. 15	LE		07	44.0					2170	NNE off Titi-zima, the Bonin I-lands.
		F		36	30.0						
		iPE	3	02	04.9						
		eE		05	27.4						
57	Aug. 25	F		19	30.0					2170	Between Prov. of Szechuen and Kan-su, China.
		P	7	54	57.4						
		S		58	35.5						
		L	8	01	17.2						
		MN ₁		01	51.4						
		ME ₁		03	18.4						
		MN ₂		03	38.2						
		ME ₂		04	47.2						
		CE		11	17.2						
F	9	11	20.0								
58	Aug. 28	P	22	36	38.2					1375	South Atlantic Ocean.
		eE		41	16.3						
		eE		43	03.1						
		F	23	01	10.0						
59	Sept. 2	P	16	44	21.8					1375	Southern off the island of Heizyô.
		S		46	47.0						
		i		55	39.2						
		F	17	04	34.1						
60	Sept. 6	P	22	19	38.5					790	The Fiji Islands.
		F	23	01	—						
61	Sept. 9	P	5	04	18.3					1108	The strong Earthquake of Noto, Isikawa Prefecture.
		S		5	44.7						
		M		5	52.5						
		F		30	—						
62	Sept. 21	P	3	16	45.5					1064	SE off Miyako, Iwate Prefecture.
		S		18	44.3						
		L		19	54.5						
		M		21	16.1						
		F		39	40.0						
63	Sept. 21	P	9	51	03.9					1064	SE off Miyako, Iwate Prefecture.
		S		52	58.3						
		L		55	06.3						
		M		56	53.3						
		F		15	39.3						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1933.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks		
						AN	AE						
64	Sept. 25	P	h	m	s	μ	μ	s	μ	km	Tibet.		
			18	57	38.8								
		S	19	02	50.8								
		L	07	24.4									
		F	39	36.0									
65	Oct. 3	P _E	18	41	25.0					1084	Central part of Niigata Prefecture.		
		eSE	43	21.4									
		LE	44	43.6									
		ME	45	37.0									
		F	19	05	25.0								
66	Oct. 14	P	7	50	28.7					196	Local.		
		L	50	55.1									
		F	55	10.1									
67	Nov. 20	iP	14	18	21.8				N 5? W 4	11	Felt slightly at Heizyô.		
		iS	18	23.3									
		ME	18	23.9									
		F	19	05.3									
68	Nov. 20	iP _N	23	32	30.5	- 30				7900	Baffin Bay.		
		eSE	41	45.5									
		iLE	52	45.5									
	21	ME	0	03	42.5							± 20	17.5
		M _N	07	33.5	13.5								
	F	49	30.0										
69	Nov. 22	eP _E	12	26	49.8						NW part of Amami-Oosima, Kagosima Prefecture.		
		F	32	23.0									
70	Nov. 22	eP _E	19	04	50.4								
		F	14	17.0									
71	Nov. 22	eP _E	22	36	38.0						Vicinity of Amami-Oosima Kagosima Prefecture.		
		F	48	59.0									
72	Dec. 4	iP	19	37	20.1				N 1.4 E 4.	1620	Eastern off the Sôya strait.		
		iS _E	40	08.1									
		ME	40	12.6									
		F	20	01	38.0								

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The Seismological Bulletin
of
Weather Bureau of Tyôsen
For the Year
1934

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Compiled
By
Weather Bureau of Tyôsen,
The Government General of Tyôsen,
Zinsen, Tyôsen, Nippon.
1937

Preface.

The present volume is the second one of the new series of the Seismological Bulletin of Weather Bureau of Tyôsen, the Government General of Tyôsen, which was put in circulation once a year quite independent of the Annual Report of the Meteorology of this bureau since the year 1933. Now-a-days, in Tyôsen, slight attention is given to the study of earthquake owing to a minority of local shocks. Nevertheless, about 300 years ago, at an active period, frequent strong shocks were experienced all over the peninsula and inflicted severe damage to the buildings and human beings. Therefore, the seismological observation must not be neglected even in the present time of less activity.

Accordingly, in this report, whole the local shocks occurred in the peninsula and its neighbouring seas are described with minute description of their seismometrical elements observed at this bureau and the other local observatories. Moreover, near and distant earthquakes which are observed at the above mentioned observatories, are also compiled in this report with the full description of the nature of them referring the seismological reports published by the Central Meteorological Observatory, Tôkyô, and the other foreign observatories.

All the results of seismological observation made at the local observatories in Tyôsen which are in charge of this bureau are described at the end portion of this report. The present report is compiled by K. Hayata, the seismological expert of this bureau.

S. I. Kunitomi,

Director,

June 1, 1937.

Weather Bureau of Tyôsen, Nippon.

I. Introduction.

The present publication contains the results of the seismometrical observations made at Weather Bureau of Tyôsen, Zinsen, and the local meteorological observatories in Tyôsen in the year 1934.

Symbols and Notations:-

- P Normal first phase (longitudinal waves).
- P' First preliminary tremors which have penetrated the earth's core.
- PR_n Longitudinal waves n-times reflected at the earth's surface.
- S Normal second phase (transverse waves).
- SR_n Transverse waves n-times reflected at the earth's surface.
- PS Waves changed from longitudinal to transverse oscillation on reflecting at the earth's surface.
- L Long waves at the beginning of the surface waves.
- M largest motion in the surface phase.
- C Tail or end portion.
- PcP Longitudinal waves reflected at the earth's core.
- ScS Transverse waves reflected at the earth's core.
- F End of the discernible movement.
- i Sudden or distinct commencement of a phase.
- e Gradual or indistinct commencement of a phase.
- AN N-S component of amplitude.
- AE E-W component of amplitude.
- AZ Vertical component of amplitude.
- + Displacement to the north, east and upwards.
- Displacement to the south, west and downwards.
- d Epicentral distance.
- (r) Remarkable earthquake; Major radius of the felt area is greater than 300km.
- (m) Moderate earthquake; Major radius of the felt area is less than 300km. and greater than 200km.

Time:- Time is referred to Greenwich Mean Time.

2. Seismological stations in Tyôsen.

(1) Weather Bureau of Tyôsen, Zinsen.

Longitude λ ; 126° 38'E Latitude φ ; 37° 29'N

Height above mean sea level; 69.7m.

Geological nature of the ground; Grey Granite-gneiss.

Instruments and constants (approximate):-

Mkg; Mass of the pendulum. V; Magnification.

Tsec; Proper period of the pendulum. $\frac{r}{T^2}$ mm/sec²; Coefficient of friction.

ϵ ; Damping coefficient.

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	97	5.2	0.012	4.7
	E-W		107	5.1	0.015	5.4
	Z	80	71	5.1	0.017	6.5
Oomori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.03	
Seismograph of low magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2
Oomori's Tronometer	N-S	50	150	15.0	0.05	
	E-W	50	150	15.0	0.05	

(2) Keizyô Meteorological Observatory.

Longitude λ ; 126° 58'E Latitude ϕ ; 37° 34'N

Height above mean sea level; 85.5m.

Geological nature of the ground; Granite.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	89	4.8	0.010	6.0
	E-W		88	4.8	0.007	5.7
Oomori's Portable Seismograph	N-S	12	50	3.5	0.03	
	E-W	12	50	3.5	0.03	

(3) Taikyû Meteorological Observatory.

Longitude λ ; 128° 36'E Latitude ϕ ; 35° 52'N

Height above mean sea level; 50.5m.

Geological nature of the ground; Shale.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	68	4.3	0.004	3.4
	E-W		78	4.3	0.004	3.3
Oomori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of Low Magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2

(4) Husan Meteorological Observatory.

Longitude λ ; 129° 02'E Latitude φ ; 35° 06'N

Height above mean sea level; 70.5m.

Geological nature of the ground; Porphyrite.

Instruments and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	73	5.3	0.03	8
	E-W		80	5.3	0.04	

(5) Heizyô Meteorological Observatory.

Longitude λ ; 125° 45'E Latitude φ ; 39° 02'N

Height above mean sea level; 51.0m.

Geological nature of the ground; Diorite.

Instrument and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
C. M. O. Portable Seismograph	N-S	17.7	50	6.0	0.015	
	E-W	17.9	50	6.0	0.015	
Seismograph of Low Magnification	N-S	2.0	2	6.0	0.02	2
	E-W	2.0	2	6.0	0.02	2
	Z	0.2	2	2.0	0.03	2

3. The Earthquakes occurred in Tyôsen in the Year 1934.

The number of the earthquakes occurred in Tyôsen and its neighbouring sea amounted to 10, and 7 of them were felt by person in the epicentral region. These felt earthquakes were very local ones and non of them were recorded instrumentally at stations due to the scant net of installation of seismograph.

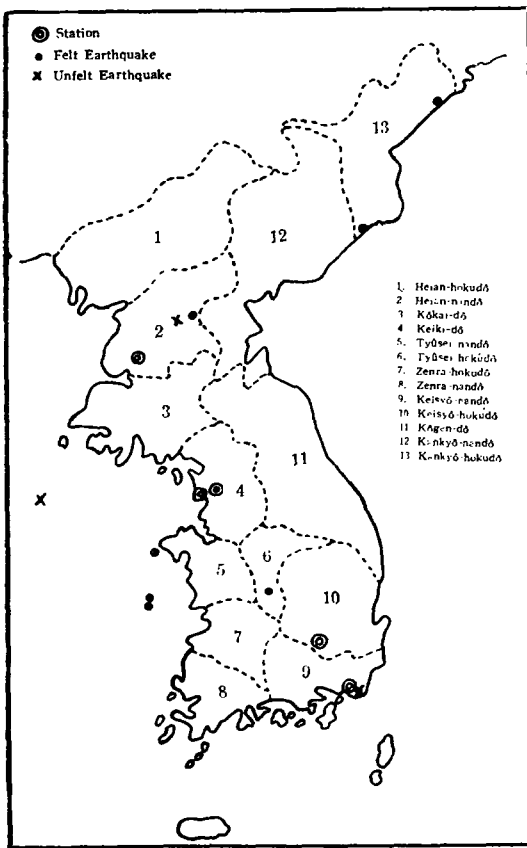
The number of unfelt earthquakes amounted to 3. Their scales were very small also. These earthquakes are found in the next tables.

The felt earthquakes which occurred in
Tyôsen in the year 1934.

Date	G. M. T.	Epicentre	Intensity
May 14	h 3 m 14	Oseitô, Zenra-hokudô.	Slight.
May 14	12 53	Oseitô, Zenra-hokudô.	Slight.
June 1	0 50	Upper valley of the Daidô River, Heian-nandô.	Moderate.
June 9	0 15	Ôtô, Tyûsei-nandô.	Moderate.
July 19	18 53	Zyôsin, Kankyô-hokudô.	Moderate.
Aug. 17	4 01	Seisin, Kankyô-hokudô.	Slight.
Aug. 28	19 -	Hô'onmen, Tyûsei-hokudô.	Moderate.

The unfelt earthquakes which occurred in
Tyôsen in the year 1934.

Date		G. M. T.		Epicentre
May	26	h 8	m 35	Vicinity of Husan,
Aug.	9	22	41	Upper valley of the Daidô River, Heian-nandô.
Dec.	12	10	09	Yellow Sea, $\lambda=124^{\circ}$ E, $\varphi=37^{\circ}$ N.



The map of distribution of the epicentres of earthquakes occurred in Tyôsen in the Year 1934.

4. Summary of the Earthquakes recorded in Tyôsen in the Year 1934.

Summary of the reading of observations made at each station in Tyôsen in the year 1934 are tabulated in the following tables for each earthquake, and the reading made at several stations in Nippon and foreign countries corresponding to each earthquake are added o, which are abstracted from "Kisyô Yôran" (Monthly Report of Geophysics of Central Meteorological Observatory, Tôkyô), and Bulletins of foreign stations at hand.

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
					N	E	Z	N	E	Z			
1	Jan. 3	Zinsen	eP	^h 9 ^m 47 ^s 33.2	- 52	+ 43		^s 10.4	^s 10.4	^s	^m 4 ^s 12.2	2592	J. S. A. gives λ=157°3E, φ=53.°6N, H= 9 ^h 42 ^m 42. ^s Depth=300km. U. S. C. G. S. gives λ=155°E, φ=53°N, H=9 ^h 42.0m. Tōkyō gives λ=155°E, φ=52.°5N. Kamachatka.
		Heizyō	iP	47 36.9							4 02.6	2467	
		Keizyō	i'	47 38.0							4 05.4	2504	
		Taikyū	i'	47 42.6							4 06.6	2519	
		Chiufeng	iP	9 48 17	16		15	8	7		4 36	2900	
		Zi-ka-wei	iPz	48 45			8			10	4 56	3378	
		Nanking	iPz	48 51							8 02	6380	
		Sitka	iP	49 23							5 33	4110	
		Honolulu	iP	50 38							6 34	5190	
		Victoria	P	50 40								5280	
		Berkeley	eP	51 41							7 25	6190	
		Pasadena	iPHz	52 17							7 56	6700	
		Medan	eP	52 50							8 50	7405	
		Tucson	eP	52 54							8 29	7290	
		Hamburg	iPz	53 13							8 50	7405	
		Florissant	iPz	53 24							8 54	7890	
		Batavia	iPz	53 25							9 00	7650	
		Ottawa	iP	53 26							8 54	7920	
		St. Louis	iPH	53 26							8 55	7916	
		Uccle	iP	53 35							9 06	7600	
Cincinnati	iP	53 37							9 03	8155			
Buffalo	iP	53 38							9 02	8035			
Stuttgart	iPzN	53 40.5							9 11	8200			
Little Rock	ePN	53 40							9 07	8180			
Fordham	iP	53 52							9 19	8445			
Georgetown	iP	53 56							9 19	8500			
Riverview	iPN	54 47	+1800	+1700	-700				9 54	8600			
La Paz	iPz	10 01 13											
2	Jan. 8	Taikyū	P	23 08 13.4							53.0	477	(m) Upper valley of the river of Yosino, Tokushima Prefecture. λ=133.°9E, φ=34.°0N. Felt in Sikoku, Tyūgoku and Kinki districts.
		Zinsen	eP?	08 52.4							1 35.3?	873?	
		Heizyō	eP	09 04.8							1 37.2	890	
		Tadotu		23 07 14.4	+1600	+1400	+315	0.6	0.9	0.3	6.0	45	
		Tokusima		07 15.1	-5200	-3100		0.6	1.0		6.8	50	
		Kōti		07 17.5	+600	-1300	±370	1.5	1.5	1.5	6.2	46	
		Muroto		07 19.6	-275	+330		2.2	2.7		10.0	74	
		Sumoto		07 21.9	-561	-206	±129	2.5	1.3	1.5	11.5	85	
		Matuyama		07 22.7	-500	-450	-382	1.0	0.8	0.8	12.1	90	
		Kōbe		07 26.7	-256	+325	-140	1.8	2.4	1.7	14.5	108	
		Oosaka		07 29.9	+331	+333	±173	2.6	3.0	2.6	17.8	132	
		Siomisaki		07 31.3	+200	- 90	- 70	1.8	1.4	2.5	31.2	232	
		Toyooka		07 33.2	+346	-464	-118	1.6	2.9	1.6	30.4	226	
		Hamada		07 34.2							36.5	271	
		Kyōto		07 34.4	+166	±125	- 70	2.2	1.8	2.8	30.4	226	
		Gihu		07 48.7	+213	- 9	- 5	1.8	1.6	0.8	31.3	232	
		Hukuoka		07 49.7	±153	- 80	+ 32	3.2	2.3	1.5	46.0	341	
		Kumamoto		07 50.3	-240	+263	+ 71	2.1	1.5	1.1	45.5	338	
		Hamamatu		07 59.7	- 82	+ 80	- 71	2.2	2.0	2.2	40.5	301	
		Miyazaki		07 59.8	-138	-151	- 40	1.6	1.2	2.4	35.6	265	
Wazima		08 04.0	± 47	± 44	± 11				48.0	356			
Misima		08 10.9	- 48	+ 60	± 15	0.8	1.2	1.9	46.0	341			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Little Rock	eP'	^{h m s} 58 41	μ	μ		s	s	s	mi	km	
		Ottawa	eP'?	9 01 18								11910	
		Berkeley	eP'	01 28								12400	
		Honolulu	iPR ₁	01 30								11390	
		Saskatoon	PR ₁	01 31									
		Woodstock	eP'	01 47								12645	
		Halifax	PR ₁	01 9									
		St. Louis	eP'	01 53							8 53	12900	
		Charlottesville	ePR ₁	02.6								12755	
		Burlington	iPR ₁	02 18								11945	
		Fordham	PR ₁	02 23								12335	
		Buffalo	iPR ₁	02 28								12265	
		Ann Arbor	PR ₁	02 36								12400	
		Tucson	e	02 37								13355	
		Madison	ePR ₁	02 47								12410	
		Pittsburg	e	03 08								12535	
		San Juan	i	03 14								14280	
		La Paz	iP'	03 20	+786			28				17145	
		Sucre	P	03 20									
5	Jan. 19	Zinsen	eP'?	12 43 24									
		Taikyû	eP'	43 36.1							2 15	1270	North Burma, Taihoku gives λ=95.°5E, φ=26°N.
		Keizyô	eP'	43 48.9									
		Nanking	iPz	12 37 34							3 40	2180	
		Chiufeng	iP'	37 49							3 51	2310	
		Zi-ka-wei	ez	37 56							3 57	2489	
		Medan	iP'	38 09							4 37	4050	
		Batavia	e	44.4									
		Taihoku	eP'	44 29								2600	
6	Jan. 20	Heizyô	P	17 59 24.1									
		Zinsen	eP'	59 27.8	- 20	+ 33		7.8	11.4		3 06.2	1812	Middle valley of the River Hoangho, Mongolia.
		Keizyô	eP'	59 41.0							3 18.0	1940	Tôkyô gives λ=105°E, φ=41°N.
		Chiufeng	P	17 57 39							1 08	500	Taihoku gives λ=111°E, φ=40°N.
		Nanking	iP'	59 08								1440	
		Batavia	e	18 04 44									
		Medan	iP'	09 17							8 02	6540	Felt at Tai-yuan, Suei-yuan and slight- ly destructive in Woo-yuan.
		Bergen	ez	23 54									
		Uccle	eI.	23 —	+ 19	- 21		18	14				
		Stuttgart	e	28.5									
7	Jan. 20	Zinsen	eP'?	22 05 09.1							2 45.8?	1597?	Off Karenkô, Formosa ?
		Taihoku	eP'?	22 00 50									
		Nanking	e	03 15									
		Chiufeng	e	04 48									
8	Jan. 20	Zinsen	eP'?	22 33 15.7							1 51.4?	1034?	Northern far off Keelung.
		Taihoku	eP	22 28 33.0							18.2	136	
		Nanking	eP'N	30 07									
		Chiufeng	P	31 56							3 15	1880	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
20	Feb. 10	Ia Paz	eP' 48 14									(m) 100km. NE off the cape of Siويا. $\lambda=142.^{\circ}E$, $\varphi=37.^{\circ}N$. Felt in Tôhoku and Kwantô districts.	
		Ottawa	e 55 —										
		Uccle	eL 10 07 —										
		Hamburg	e 32 —										
		Taikyû	eP' 22 04 27.3										
		Hukusima	22 02 15.2							19.3	143		
		Sendai	02 16.5	+420	+425	+169	1.0	1.0	1.6	16.3	121		
		Kakioka	02 20.5	+381	-261	+159	0.7	0.8	0.8	24.4	181		
		Tyôshi	02 21.4	-140	-159	+ 37	1.8	2.1	1.7	26.9	200		
		Tôkyô	02 31.2	+200	-220		2.7	1.5		32.	238		
		Akita	02 37.7	-310	-154	+136	2.7	2.5	3.1	41.2	306		
		Nagano	02 44.2	+123	-134	+ 92	2.4	2.6	2.4	49.9	371		
		Numadu	02 45.1	+337	+213	±100	1.8	1.8	1.7	49.9	371		
		Wazima	02 58.8	± 67	± 38	± 14				1 00.0	540		
		Gihu	03 04.0	+ 70	- 60	± 30	1.4	2.0	3.2	50.4	374		
		Nemuro	03 18.7							1 13.8	678		
		Oosaka	03 20.9	+ 63	+118	+ 63	2.4	4.0	2.4	1 06.1	601		
		Kôbe	03 24.8	- 16	+ 13	- 10	2.6	2.6	2.1	1 34.7	867		
		Siomisaki	03 27.1		+ 5	+ 2		1.9		1 40.4	924		
		Sapporo	03 43.8	+ 26	- 35		1.1	1.4		1 01.4	554		
Kôti	03 48.0							1 45.	970				
Kumamoto	03 56.8							2 55.8	1698				
Nagasaki	04 30.							2 39.	1520				
21	Feb. 12	Zi-ka-wei	e 22 06 00										
		Chiufeng	e 06 24										
		Zinsen	eP' 11 41 35.7		± 33				13.8	4 47.1	3057	Stuttgart gives $\lambda=100.^{\circ}E$, $\varphi=20.^{\circ}N$, $H=11^h30^m55.^s$ Indo-China range.	
		Keizyô	eP' 41 49.8						5 03.0	3280			
		Taikyû	eP' 41 54.0						4 02.3	2463			
		Heizyô	e 46 09.2										
		Medan	iP 11 34 45							4 49	3240		
		Zi-ka-wei	P 35 43							4 06	2733		
		Chiufeng	P 36 07							4 22	2645		
		Batavia	iP 36 37										
		Stuttgart	eP 42 45							9 29	8500		
		Uccle	e 53 —										
Riverview	e 58.4												
Hamburg	e 12 07 —	38	18		23	27							
Bergen	e 11 03												
Ottawa	e 22.5												
22	Feb. 14	Taikyû	P 4 04 14							3 43	2230	Western off Luzon. Tôkyô gives $\lambda=119.^{\circ}E$, $\varphi=17.^{\circ}N$. Felt in Tainan. J. S. A. gives $\lambda=119.^{\circ}E$, $\varphi=18.^{\circ}N$, $H=3^h59^m45.^s$ Manila gives $\lambda=119^{\circ}25'E$, $\varphi=17^{\circ}30'N$, $H=3^h59^m38.^s$	
		Zinsen	iP 04 21.2	±385	-285	-375	17.5	13.8	20.6	3 57.1	2401		
		Keizyô	P 04 23.6							3 55.6	2384		
		Heizyô	iP 04 38.6	- 64	+ 40		10	12		4 04.5	2490		
		Manila	iP 4 00 32							44	407		
		Zi-ka-wei	e 02 55	+247				11		2 34	1500		
		Nanking	iP 03 —	1855	1650			16	16		1690		
		Amboina	iP 04 39							3 54	2430		

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
					N	E	Z	N	E	Z			
		Uccle	e	h m s 29 —	μ	μ	μ	s	s	s	m s	km	
		Ia Paz	eP'	31 12	- 19	+ 33		17	22		11 12	10310	
		Ottawa	e	32 —									
		Hamburg	e	33 44	36	61		25	36				
		Stuttgart	ePK ₁	34 04								15400	
		Bergen	P?	34 20									
31	Mar.18	Zinsen	e	0 21 58.0									Lower valley of Yangtze River, Felt at Hankow, ankiang and Wuhu.
		Nanking	P	0 18 12							35	270	
		Chiufeng	e	20 28									
32	Mar.18	Keizyô	P	4 37 30.7									J. S. A. gives λ=158.°0E, φ=50.°0N, H=4 ^h 33 ^m 12. ^s Depth=80km, Kamchatka.
		Heizyô	iP	38 30.5									
		Zinsen	iP	38 31.7									
		Taikyû	iP	38 32.2							1 42.0	940	
		Chiufeng	iP	4 39 18							4 34	2875	
		Nanking	iP	40 46							5 12	3435	
		Honolulu	eP	41 35								4945	
		Medan	eP	44 09									
		Batavia	e	44 16									
		St. Louis	iP	44 45							9 27	8220	
		Ottawa	iP	44 49							9 28	8160	
		Stuttgart	eP	45.2								8700	
		Fordham	iP	45 16							9 53	8755	
		Georgetown	iP	45 18							9 55	8810	
		Ia Paz	iP'	52 23								14800	
		Uccle	eL	5 11 —									
33	Mar.20	Zinsen	eP?	2 46 49.7							7 05.0	5420?	Tôkyô gives λ=151°E, φ=4°S, Bismarck Archipo.
		Taikyû	eL	53 18.7									
		Keizyô	e	53 51.9									
		Palau		2 42 46.6							3 48.5	2298	
		Amboina	P	42 58							3 59.	2500	
		Riverview	e	45.1									
		Batavia	e	46 49									
		Nanking	eP	46 56?							6 59?	5255	
		Medan	e	47 32									
		Chiufeng	eP	47 50							7 36	5910	
		Pasadena	eP	51 49									
		Ia Paz	P'	58 06									
		Ottawa	eS?	3 16.3									
		Stuttgart	e	21									
		Uccle	eL	37									
		Hamburg	eL	40	12	8	20	19	19	19			
34	Mar.24	Taikyû	P	12 14 01.8							7 10.0	5510	Tôkyô gives λ=161°E, φ=9°S.
		Keizyô	eP	14 17.3	+ 89	+118		26.0	26.0		7 51.0	6270	
		Heizyô	P	14 31.7							8 08.	6590	J. S. A. gives λ=161.°5E, φ=9.°3S, H=12 ^h 04 ^m 34. ^s
		Zinsen	iP	14 40.1							7 31.9	5918	The extreme western
		Riverview	eP	12 09 55	26800	27200	1800				4 35	2890	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Apia	iP	h m s 10 13	μ	μ	μ	s	s	s	m s 4 39	km 2935	end of Malayta Island in the Solomon Archipelago.
		Amboina	eP	10 54									
		Palau		11 05.3									
		Manila	iP	12 58							6 58	5235	
		Honolulu	iP	13 36							7 20	5620	
		Batavia	P	13 52									
		Medan	eP	15 07									
		Chiufeng	P	15 08			45			24	8 35	6955	
		Nanking	P	15 24							8 02	6380	
		Sitka	eP	16 55							10 37	9345	
		Berkeley	eP	17 10								9555	
		Ukiah	eP	17 12							10 27	9420	
		Pasadena	iP	17 20							10 47	9830	
		Victoria	P	17 30								9735	
		Tucson	eI	17 39								10335	
		Bozeman	eI	17 57								10565	
		Georgetown	eP'	23 26								13420	
		Fordham	eP'	23 27								13620	
		La Paz	P'	23 35	- 30	+ 38	- 33	20	20	20		14000	
		St. Louis	ePR ₁	23 36								12245	
		Sucre	P	23 37									
		Hamburg	eP	23 41	150	115	120	27	24	27			
		Stuttgart	eP'	23 47	58	27	32	24	19	19		14900	
		Uccle	eP'	23 48	+101	+ 47		25	25			15000	
		Ottawa	e	24 45									
		Bergen	eI'?	37 14							39	289	
35	Apr. 3	Taikyū	P	22 35 13.4							2 48.8	1630	NW off Titizima, Bonin Islands.
		Zinsen	eP	35 38.5							3 05.3	1803	
		Keizyō	P	35 41.4							3 00.6	1755	
		Nanking	iP	22 36 28							3 44	2235	
		Chiufeng	P	37 10							4 20	2680	
		Hamburg	eL	23 17 —									
		Uccle	eL	20 —									
		Stuttgart	eL	22 —									
36	Apr. 6	Taikyū	P	19 12 06.0							2 08.0	1200	
		Keizyō	iP	12 19.4								1620	
		Zinsen	iP	12 22.2								1680	
		Heizyō	P	12 31.8									
		Onahama		19 09 53.0							11.3	84	
		Hukushima		09 53.8	>+1500	>+1500					12.2	91	
		Sendai		09 58.3	-8360	-5150	-2610	3.3	3.3	5.1	14.4	107	
		Kakioka		10 02.2	+2000	+1450	+750	0.8	0.8		16.9	126	
		Tyōsi		10 04.8	-1050	-1100	-690	1.7	1.7	2.0	17.2	128	
		Tōkyō		10 11.5	+700	+660	+520				24.0	178	
		Morioka		10 13.4	NW 750	NE 1000	-400	2.6	2.6	2.7	26.5	197	
		Yokohama		10 16.6	±1250	±1300	+560	3.8	4.5	5.0	29.0	215	
		Akita		10 17.0	-2800	-1500	+ 88	2.9	2.9	1.9	30.8	229	
		Nagano		10 20.3	+723	>+622	+508	3.8	2.8	3.3	22.5	167	
		Numadu		10 21.7	+507	-303	-205	2.5	2.5	1.1	46.2	343	
		Wazima		10 31.5	+833	±316	-143	1.0	1.0	1.2	30.1	224	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Gihu	^{h m s} 10 40.0	^μ -125	^μ +130	^μ ± 68	^s 3.2	^s 3.5	^s 4.8	^{m s} 48.7	361	
		Hatizyōzima	10 47.8	-215	-240	+116	1.9	1.9	1.3	43.5	323	
		Oosaka	10 59.0	-288	-256	+114	3.5	3.2		1 14.5	685	
		Kōbe	11 00.9	- 45	+ 74	+ 32	3.5	4.5	4.0	1 33.2	862	
		Sapporo	11 01.9	+104	±106		2.6	2.6		1 08.6	626	
		Siomisaki	11 04.2	- 22	+30		3.6	3.2		1 29.2	822	
		Nemuro	11 13.7							1 08.7	627	
		Hamada	11 24.1							1 32.4	854	
		Matuyama	11 23.9	- 45	+ 26	+ 10	5.1	6.0	5.1	2 25.1	1377	
		Miyazaki	11 55.1	- 17	- 16	- 5	4.5	5.1	4.8	2 24.4	1366	
		Titizima	11 59.9	+ 19	- 17					1 45.4	974	
		Nagasaki	12 05.0	+ 33	- 16		4.8	4.8		2 46.8	1608	
		Nanking	P 19 13 54							3 50	2300	
		Chiufeng	iP 13 58			8			10	3 58	2280	
		Hamburg	eP 21 37							9 57	8700	
		Stuttgart	iP 22 00							10 15	9300	
		Uccle	iP 22 00							10 17	9140	
		La Paz	iP 29 13									
		Sucre	P 29 21									
37	Apr.10	Taikyū	eP 10 21 10.3									
		Zinsen	eP 31 20.3									
		Keizyō	eP 31 20.1									Stuttgart gives λ=114.°5E, φ=8.°5S, H=10h22m40. ^s
		Malabar	iP 10 25 04									Tōkyō gives λ=116°E, φ=7°S.
		Batavia	eP 25 06							2 03	1170	Felt East Java, Bali, Lombok.
		Soengei	eP 25 33							2 18	1300	
		Langka	P 26 01							2 33	1480	
		Amboina	P 26 01							4 09	2640	
		Medan	eP 27 24							4 09.2	2550	
		Palau	28 11.6							6 02	4235	
		Nanking	iP 30 22							6 20	4550	
		Riverview	iP 30 55	2500	3000					6 46	5020	
		Chiufeng	iP 31 23							11 54	11700	
		Stuttgart	eP 37 12									
		Hamburg	e 41 —	16	10		21	24				
		La Paz	iP' 42 56		- 6			22				17500
		Sucre	P' 42 57									
		Uccle	e 49 23									
		Ottawa	e 11 03.8									
		Bergen	M 20 —									
38	Apr.12	Zinsen	eS 9 25 11.9									
		Taikyū	eP 25 28.9									Distant earthquake
		Nanking	iP 9 15 05									
		Chiufeng	eP 15 18							4 00	2420	
		Medan	i 22 19									
		Batavia	P 23 28									
		Stuttgart	eL 48 —									
39	Apr.13	Husan	e 22 05 46									
		Taikyū	P 06 18.4							2 08.0	1200	160km. NE off Isigakizima Okinawa Prefecture. λ=125.°3E, φ=25.°4N.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks			
				N	E	Z	N	E	Z						
40	Apr.15	Nanking	iP	h m s 22 05 45	μ	μ	μ	s	s	s	m s 1 30	km 668	Felt at Isigakizima and Naha with intensity II.		
		Chiufeng	iP	07 24								2 55		1660	
		Husan	P	10 35 32.0								2 21.9	1339	10m) 55km SSE off the cape of Nozima, Tiba Prefecture. λ=140.°0'E, φ=34.°5'N, Depth=60~70km.	
		Taikyū	eP	35 41.8											
		Keizyō	P	36 03.4										Felt in Kwantō and Tyūbu districts, and in epicentral region with intensity III.	
		Tomisaki		10 33 34.			± 97					17.6.?	131		
		Tōkyō		33 40.4	±700	+739	±387						17.8	132	
		Hatizyōzima		33 40.7	-748	-500	±157	2.4	2.2				17.9	133	
		Numadu		33 40.9	-308	+512	-327	1.8	1.8	1.5			17.3	128	
		Tyōsi		33 42.9	+650	-750	+210	3.8	3.8	4.6			20.9	155	
		Kakioka		33 47.8	+336	+232	-118	1.0	1.0	2.4			22.8	169	
		Hamamatu		33 52.6	+305	-369	+ 78	3.7	3.7	2.6			26.6	198	
		Nagano		34 03.3	+414	-332	-197	3.1	3.3	2.7			35.7	265	
		Gihu		34 04.8	+170	+230	- 68	2.2	2.0	1.9			37.4	278	
		Hukusima		34 09.8	+220	+199	- 61	1.1	1.3	1.0			40.4	300	
		Oosaka		34 10.4	+163	+151	- 50	4.0	3.4	2.4			1 11.1	651	
		Hikone		34 13.5									57.	423	
		Sendai		34 15.9	-130	+111	- 44	2.5	5.3	4.6			40.5	301	
		Siomisaki		34 16.1	+ 14	- 40				1.5			49.0	364	
		Kyōto		34 18.4	+ 49	- 84		2.2	2.2				42.0	312	
		Wazima		34 20.5	+107	- 95	± 15	1.0	1.0	1.0			46.0	341	
		Kōbe		34 22.1	- 44	+ 63	+ 37	3.6	3.1	3.0			49.3	366	
		Morioka		34 34.1									59.0	438	
		Akita		34 36.5									55.6	421	
		Kōti		34 40.									1 06.	600	
		Matuyama		34 51.0	+ 28								1 55.6	1076	
		Hirosima		34 54.7									1 19.3	723	
		Hamada		34 59.0									1 15.1	681	
		Miyazaki		35 11.9	+ 5	+ 6		3.5	4.1				1 20.6	736	
		Kunamoto		35 18.1									1 49.5	1015	
Sapporo		35 37.6									1 19.9	729			
41	Apr.15	Nanking	P	10 37 27							3 26	2010			
		Chiufeng	eP	37 41								4 00		2420	
		Hamburg	e	41 —	16	10				21	24				
		Uccle	eL	11 19 —											
		Stuttgart	eL	20 —											
		Husan	iP	22 21 01.6								4 23.8	2742	Tokyo gives λ=127°E, φ=7°N.	
		Taikyū	P	21 10.6								4 53.0	3140		
		Zinsen	iP	21 21.6	+200	-154	±240	17.3	20.6	18.4			4 45.0	3030	Mindanao, Felt at Palau.
		Keizyō	P	21 23.9	+380	+140		22.0	13.2				4 59.0	3230	
		Heizyō	P	21 42.9									4 58.5	3220	J. S. A. gives λ=121.°8'E, φ=11.°5'N, H=22 ^h 15 ^m 19. ^s
		Amboina	eP	22 17 57									2 18	1320	Strasbourg gives λ=127°E, φ=8°N.
		Nanking	iP	22 20 24									4 33	2855	Manila gives λ=127°E, φ=6°N.
		Batavia	iP	20 36									4 30	2930	
		Malabar	eP	20 40									4 22	2820	
		Medan	eP	21 14											
		Chiufeng	iP	21 56									5 21	3580	Felt at Mindanao.
		Honolulu	iP	27 05									9 55	8620	
		Sitka	iP	28 06									10 43	9735	

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
					N	E	Z	N	E	Z			
		Victoria	P	^h 28 ^m 40	μ	μ	μ	s	s	s	m s	km	
		Hamburg	eP	28 58	210	150	110	27	27	30		11000	
		Stuttgart	eP	29 10								11400	
		Uccle	eP	29 17	-130			27.5			11 57	11500	
		Bergen	eP	29 28							12 31	12233	
		Florissant	eP?	30 57							12 43	13590	
		Tucson	eP'	33 58								12665	
		Buffalo	eP'	34 16								13690	
		St. Louis	eP'	34 25								13600	
		Fordham	iP'	34 25								14165	
		Georgetown	iP'	34 27								14245	
		Little Rock	eP'	34 29								13720	
		San Juan	P'	35 16								16945	
		La Paz	eP'	35 19								18100	
		Ottawa	PR ₁	35 56								14445	
42	Apr. 16	Taikyū	P	13 44 04.2									SE off Garanbi, Formosa.
		Zinsen	eP	44 14.5									λ=121.°0E, φ=21.°8N. Felt in Formosa.
		Nanking	P	13 42 53							2 26	1355	
		Chiufeng	iP	44 44							3 36	2135	
		Amboina	P	45 35							4 54	3320	
43	Apr. 19	Husan	iP	16 15 47.8	+ 13	+ 13		4.4	4.4		1 49.9	1019	(r) Southern off Hatziryō Island.
		Taikyū	P	15 55.5							1 55.0	1070	Tōkyō gives
		Keizyō	iP	16 16.9							2 11.5	1235	λ=139.°5E, φ=30.°0N, Depth=350km.
		Zinsen	iP	16 18.0							2 14.3	1263	Felt at Titizima with intensity III.
		Heizyō	iP	16 34.2							2 46.2	1600	Felt in Kwantō and Tōhoku districts.
		Hatizyozima		16 14 37.9	-278	±290	±105	2.3	2.5	2.3	51.5	382	
		Titizima		14 44.0	+270	-190	±120	0.5	0.5	0.6	56.5	420	
		Numadu		14 50.1	+330	-252	+ 55	2.1	2.1	2.1	1 10.6	646	
		Siomisaki		14 50.3	-170	+ 48	- 55	3.8	3.8	1.8	58.2	432	
		Hamamatu		14 54.3	+ 88	+202	- 75	3.2	3.2	2.5	1 05.0	590	
		Tōkyō		14 59.8	±300	+275	±112				3.1	1 10.7	647
		Nagoya		15 00.5	+123	-188	+ 30	2.9	3.6	2.4	1 09.6	636	
		Oosaka		15 02.4	-456		+194	3.8		2.4	1 11.6	656	
		Gihu		15 02.6	- 75	-130	+ 42	3.0	2.2	2.4	1 08.5	625	
		Kyōto		15 02.8	-115	- 75		4.5	4.5		1 11.9	659	
		Kōbe		15 02.9	+163	-251	- 87	3.9	2.5	3.2	1 14.4	684	
		Tyōsi		15 03.4	+266	+265	+ 51	2.2	3.4	1.6	1 11.0	650	
		Hikone		15 05.7	-185	+ 85		2.6	2.6		1 05.2	592	
		Kōti		15 05.8	+ 30	+ 45					1 08.	620	
		Nagano		15 12.4	+ 80	+ 99	+ 55	2.9	3.1	2.3	1 17.6	706	
		Miyazaki		15 17.7	- 98	- 98	+ 20	3.2	3.4	3.6	1 18.7	717	
		Iukusima		15 23.1	-611	-401	+ 99	0.6	0.6	0.6	1 25.9	789	
		Hamada		15 24.2							1 30.7	837	
		Kagosima		15 24.6	-130	-100		8.5	8.0		1 25.1	781	
		Hukuoka		15 29.9	+104	+100		4.7	5.0		1 34.8	868	
		Nagasaki		15 32.0	+ 92	+122		4.1	4.1		1 35.9	879	
		Wazima		15 48.4	+ 53	+ 37	± 3				1 26.0	790	
		Akita		15 48.7	-119	+ 81	- 7	3.2	2.7	3.2	1 43.1	1001	
		Sapporo		16 23.3	- 28	- 55		2.3	2.3		2 17.7	1297	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Isigakizima	h m s 16 37.4	μ	μ	μ	s	s	s	m s 2 27.6	km 1406	
		Ootomari	17 03.6							2 57.5	1715	
		Palau	18 01.7							3 38.2	2173	
		Nanking	iP 16 17 09							3 00	1710	
		Chiufeng	iP 17 44							2 01	1110	
		Amboina	iP 19 43							4 58	3380	
		Medan	iP 21 22							6 13	4650	
		Batavia	iP 21 27							6 21	4790	
		Stuttgart	eP 25 41								10000	
44	Apr.27	Keizyô	L? 9 25 05									SE off Miyako?
45	Apr.28	Husan	P 2 01 55.6							25.0	186	Vicinity of Hukuoka City, λ=130.°4E, φ=33.°6N.
46	Apr.30	Husan	eP 15 23 31.9							2 57.3	1713	
		Taikyû	eP 23 42.5							3 05.0	1800	Southern off Titi-zima, Bonin Islands.
		Zinsen	eP? 23 52							3 31	2090	
		Keizyô	eP 24 19.9							3 04.0	1790	
		Nanking	iP 15 24 35							3 56	2380	
		Chiufeng	e 25 22									
47	May 1	Zinsen	iP 7 12 40.5									Deep type. Stuttgart gives λ=100.°5E, φ=2.°5N, H=7h 04m40.8
		Husan	P 12 42.5									NW-Sumatra.
		Taikyû	P 12 42.6									Manila gives λ=94.°E, φ=6.°5N.
		Keizyô	P 12 43.4							5 40.8	3891	
		Medan	iP 7 05 21									
		Soengei Langka	P 07 23							2 07	1210	
		Batavia	iP 08.0								1280	
		Malabar	iP 08 16									
		Amboina	iP 11.0							4 57	3330	
		Nanking	iP 11 32							8 03	6490	
		Chiufeng	iP 12 19							5 37	3835	
		Riverview	e? 17.0									
		Hamburg	iP 17 22									
		Stuttgart	iP 17 26.0								9900	
		Uccle	iP 17 40							10 35	9665	
		Pasadena	e 23 36									
		Florissant	eP 24 01							3 24	2010	
		St. Louis	eP 24 08							3 33	2110	
		Little Rock	P 24 21							3 37	2190	
		La Paz	iP 24 47									
48	May 2	Taikyû	eL 5 46 46.9									Uncertain.
49	May 3	Husan	P? 1 34 38.6									
		Taikyû	P 34 40.1							2 44.4	1576	NNW off Titizima, Bonin Island, Manila gives λ=145.°E, φ=27.°7N.
		Zinsen	eP 34 51									
		Keizyô	P 35 01.2		+ 11			9.0		3 14.6	1906	
		Nanking	iP 1 35 55							3 55	2365	
		Chiufeng	P 36 34			20			16	4 22	2700	

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks		
					N	E	Z	N	E	Z	m	s				
50	May 4	Pasadena	iP	h m s 43 32		μ	μ	s	s	s	m	s	km			
		I.a Paz	P'	51 03		+ 3				18						
		Uccle	e	55 —												
		Stuttgart	e	55 —												
		Hamburg	eL	2 18 —												
		Heizyδ	P	4 45 37.9								7 42.0	6105		Tôkyô gives	
		Keizyδ	P	45 41.6			+ 14				24.0	7 46.2	6184		λ=146°W,	
		Zinsen	eP	45 43.7								7 42.7	6116		φ=64°N,	
		Taikyû	P	45 47.8								7 49.0	6245		Alaska.	
		Ifusan	P	45 51.5		± 4	± 22		9.8	8.8		7 54.8	6346		J. S. A. gives	
																λ=145°W,
																φ=61°N,
																H=4 ^h 36 ^m 15. ^s
				Sitka	iP	4 37 58								722		In the region of
				Victoria	P	40 40								1980		Beaver Dam,
				Bozeman	iP	41 43						4 30	2810			Alaska.
				Ukiah	iP	41 50						4 38	2880			U. S. C. G. S. gives
				Berkeley	iP	42 02						4 45	3090			λ=148°W,
				Pasadena	iP	42 44						5 11	3690			φ=61°N,
				Tucson	iP	43 23						5 58	4065			H=4 ^h 36.1 ^m .
				Honolulu	iP	43 47						5 57	4510			Strong at Anchorage
				Toronto	iP	43 49						6 18	4420			and Seward, Alaska.
				Florissant	iP	43 51						6 16	4480			
				St. Louis	eP	43 52						6 15	4455			
				Ann Arbor	iP	43 54						6 18	4510			
				Ottawa	iP	44 08						6 19	4680			
				Little Rock	iP	44 13						6 31	4755			
				Austin	iP	44 22						5 39	4855			
				Burlington	iP	44 24						6 40	4910			
				Pittsburgh	iP	44 40							4900			
				Woodstock	iP	44 40						6 53	5145			
				Fordham	iP	44 41						6 57	5155			
				Georgetown	iP	44 42						6 54	5165			
				Charlottesville	iP	44 47						6 49	5200			
				Cincinnati	i	44 56							4780			
		Weston	iP	44 57						6 56	5210					
		Bergen	iP	45 48						7 51	6190					
		Chiufeng	iP	46 02					6	8 01	6355					
		Stonyhurst	iP	46 26		6					6810					
		Nanking	iP	46 39						8 34	6935					
		Hamburg	iP	46 40						8 36	7120					
		Uccle	iP	46 51		+ 85	+ 36		36	23	8 46	7160				
		Stuttgart	iP	47 09.0							8 59	7550				
		San Juan	iP	47 18								7690				
		Manila	iP	48 04							9 51	8810				
		Amboina	P	49 00							10 32?	10110				
		Riverview	e?	49.4		1000	300		7	24						
		La Paz	iP	49 47							11 51	11000				
		Sucre	P	50 05							10 56	9950				
		Medan	eP	50 07							10 08?	8950				
		Batavia	P	53 34							7 05?	5420				
51	May 13	Husan	eP	9 10 12.5							2 11.3	1233		Tôkyô gives		
		Zinsen	eP	10 49.0							7 02.1	5362		λ=153°E,		
		Keizyδ	P	10 52.3										φ=5°S.		
														Bismarck Archipo.		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Amboina	iP	^{h m s} 9 07 39	μ	μ	μ	s	s	s	^{m s} 3 55	2440	U. S. C. G. S. gives λ=154°E, φ=5°S, H=9 ^h 01.9m. Stuttgart gives λ=153.°E, φ=4.°S, H=9 ^h 02.0m. New Pomerania.
		Riverview	iP	08 04	-2800	8600		8	8		4 44	3010	
		Nanking	P	01 01?							7 06	5380	
		Malabar	iP	10 32							6 37	5030	
		Batavia	iP	10 33								4890	
		Chiufeng	iP	10 48							7 44	6065	
		Medan	P	11 42							7 41	6170	
		Pasadena	iP	15 09									
		Stuttgart	eP'	21 06							11 39?	14000	
		Uccle	P'	21 09								14300	
		St. Louis	eFR ₁	21 32									
		La Paz	P	22 00									
		Hamburg	e	22.3	8	8	5	20	20	20			
		Ottawa	e	22 26									
		52	May 14	Keizyô	P	22 22 16.5							
		Sitka	iP	22 14 58							1 38	933	
		Victoria	P	17 15								2055	
		Pasadena	iP	19 26							5 08		
		Honolulu	eP	20 30							5 34	3955	
		Madison	iP	20 34							6 09	4500	
		Chicago	iP	20 49							6 43	4690	
		Florissant	iP	20 53							6 25	4755	
		St. Louis	iP	20 56							6 27	4780	
		Ottawa	iP	21 15							6 45	5070	
		Little Rock	eP	21 15							6 43	4965	
		Austin	eP	21 16							6 44	5070	
		Buffalo	iP	21 19								5110	
		Georgetown	iP	21 48							7 10	5580	
		Fordham	iP	21 49							7 14	5580	
		Chiufeng	iP	22 40							7 52	6200	
		Nanking	iP	23 09							8 26	6790	
		Hamburg	iP	23 47		5			17		8 58	7560	
		Uccle	iP	23 59							9 07	7620	
		Stuttgart	P	24 15.5							9 21	8100	
		San Juan	eP	24 16							9 21	8020	
		Manila	eP	24 35							9 43	8555	
		Amboina	P	25 25							10 34	9730	
		La Paz	eP?	36 51	+ 4	+ 5	+ 3	18	18	18			
53	May 21	Husan	eP	4 38 19.6							6 24.0	4665	Northern off Formosa by Tôkyô.
		Zinsen	eP?	38 42.							5 50.?	4050?	
		Taikyû	P	39 47.4							3 38.0	2170	
		Keizyô	P	40 05.8							4 11.6	2584	
		Heizyô	eP?	43 30.0									
		Nanking	e	4 39 00							1 49?	809?	
		Chiufeng	P	40 32	10	9	19	10	11	11	3 30	2055	
		Hamburg	e	5 21 —									
		Uccle	eL	22 —									
		Stuttgart	eL	25 —									
54	May 22	Keizyô	eP	1 40 25.0									Distant earthquake.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
58	June 2	Husan	iP	^h 21 ^m 30 ^s 17.4	μ	μ	μ	s	s	s	m S 56.1	km 417	Hyūganada. λ=131.°9E, φ=31.°7N. Felt in south of Kyūsyū.	
		Taikyū	P	30 25.0							1 15.4	584		
		Zinsen	eP?	31 27.							1 16.	690		
		Keizyō	eP	32 09.										
		Heizyō	eP	32 57.2										
59	June 9	Husan	P	13 06 35.0	± 6	± 13		5.6	6.0		6 37.4	4913	Tōkyō gives λ=146.°E, φ=4°S. Bismarck Archipo. Stuttgart gives λ=147.°5E, φ=5°S, H=12 h 58 m 25 s. New Pomerania.	
		Taikyū	P	06 53.2							6 59.6	5316		
		Keizyō	P	06 54.9							6 44.3	5041		
		Zinsen	eP	07 10.6							6 50.0	5145		
		Heizyō	eP	07 19.5										
		Amboina	iP	13 03 01							3 31	2150		
		Riverview	eP	04 30	7900	15600	-1300	9	14	3	4 37	2910		
		Malabar	iP	06 09							5 46	4200		
		Batavia	iP	06 13							5 41	4130		
		Nanking	iP	07 03							5 57	4155		
		Medan	eP	07 31							6 55	5320		
		Chiufeng	iP	08 00							7 26	5735		
		Pasadena	iP	12 07										
		Stuttgart	P	17 33							9 37	13850		
		Uccle	eP	17 35	+ 14	+ 13		24.5	24					
La Paz	P	17 58	- 3	- 3	+ 4	7	7	8						
St. Louis	iPR _i	18 37												
Ottawa	i	19 28												
60	June 13	Taikyō	P	1 54 46.8							3 60.4	1814	(r) Northern off Sikotan Island. λ=146.°7E, φ=43.°8N. Felt in Hokkaidō, Tōhoku and Kwantō districts. J. S. A. gives λ=149.°5E, φ=45°N, H=1 h 51 m 09 s, Depth=95km.	
		Keizyō	P	54 47.1							3 00.8	1745		
		Husan	P	54 50.2							3 14.7	1907		
		Zinsen	eP	54 50.4							3 06.5	1815		
		Heizyō	eP	54 52.5							3 09.9	1850		
		Nemuro		51 25.1	-500							19.7		146
		Kusiro		51 30.5								29.8		221
		Obihiro		51 54.0								1 03.0		570
		Urakawa		51 56.5								50.6		376
		Otomari		52 05.8	±700			8.4				45.6		339
		Sapporo		52 08.0	-900	-1200	+114	2.7	2.9	2.8		50.0		371
		Akita		52 41.3	+139	±172	± 98	2.2	2.1	1.9		1 15.1		681
		Sendai		52 46.2	-109	+155	- 45	4.1	4.1	1.7		1 19.3		722
		Hokusima		52 53.9	+144	+176	- 79	1.1	0.9	0.8		1 26.6		796
		Kakioka		53 12.2	- 81	+ 67	+ 21	0.8	0.8	1.0		1 39.3		913
		Maebasi		53 19.1	+ 69	- 48	- 33	1.6	1.0	1.0		1 44.4		964
		Tōkyō		53 22.0	±120	± 63	± 47	8.5	8.4	3.2		1 49.		1010
		Nagano		53 23.4	+ 30	+ 71	- 47	2.1	3.4	3.2		1 47.1		991
		Wazūma		53 26.6								1 52.8		1048
		Numadu		53 35.7	- 77	± 64	± 20	2.0	2.0	1.1		1 59.3		1113
		Tomisaki		53 38.								1 47.		990
		Gihu		53 45.2	- 18	- 12		2.4	2.9			2 12.5		1245
		Hamamatu		53 46.0	+ 19	+ 28	- 11	2.8	3.2	1.1		1 32.8		858
		Hatizyōzima		53 52.6	- 48	- 37						2 06.0		1180
		Kameyama		53 53.9	- 12	+ 4		2.9	2.9			2 29.8		1428
Oosaka		53 55.7												
Kōbe		54 03.9	+ 6	- 8	- 5				5.2	2 45.	1585			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Siomisaki	^{h m s} 54 10.9	^μ - 15	^μ - 5	^μ	^s 3.0	^s	^s	^{m s} 2 55.6	^{km} 1696	
		Hamada	54 26.2							3 00.3	1750	
		Kōti	54 27.							3 00.	1745	
		Hirosima	54 31.9							2 55.9	1699	
		Simidu	54 37.6	± 3	± 4		3.8	3.8		3 08.4	1834	
		Hukuoka	54 50.6							3 14.4	1904	
		Kumamoto	54 56.8	± 23	± 14	- 11	4.1	4.5	5.8	3 15.2	1912	
		Sinkyō	54 58.0							2 53.7	1677	
		Titizima	54 58.3							2 57.4	1714	
		Miyazaki	54 58.7	- 26	- 30	- 15	5.2	5.6	6.3	3 20.1	1971	
		Nagasaki	55 02.7	+ 17	- 35	- 4	4.8	4.8	3.4	3 13.9	1899	
		Dairen	55 24.5							3 37.0	2160	
		Naze	55 41.3							3 53.7	2357	
		Naba	56 09.0	+ 15			7.6			4 09.6	2556	
		Palau	58 12.4									
		Chiufeng	iP 1 56 00	10	8	13	10	10	9	4 07	2500	
		Nanking	iP 56 21							4 30	2810	
		Manila	eP 58 02								4300	
		Sitka	iP 59 27							6 58	5180	
		Amboina	iP 59 45							7 40	6150	
		Honolulu	iP 59 48							7 07	5435	
		Pasadena	iP 2 01 58							9 06	7720	
		Bergen	P 02 08							9 15	7900	
		Hamburg	iP 02 36		44	29		17	27			
		Riverview	i 02 46	±800	-600		6	5				
		Uccle	iP 02 57							9 55	8650	
		Stuttgart	iP 03 00.5							9 58	8800	
		Florissant	iP 03 08							10 07	9000	
		St. Louis	iP 03 10							10 08	9010	
		Ottawa	eP 03 13							10 05	8930	
		Buffalo	iP 03 19							10 09	9180	
		Fordham	iP 03 36							10 18	9580	
		Georgetown	eP 03 37							10 29	9635	
		San Juan	PR ₁ 09 56								12120	
		La Paz	iP' 10 19								15500	
61	June 13	Zinsen	iP 22 19 43.5									
		Heizyō	iP 19 45.0							7 —	5320	Tōkyō gives λ=64° E, φ=30° N.
		Keizyō	P 19 45.9							7 28.8	5865	Afghanistan.
		Taikyū	P 19 57.3							7 40.5	6080	J. S. A. gives
		Husan	P 20 06.0							7 42.2	6108	λ=63.°5 E, φ=29.°5 N, H=22 ^h 10 ^m 35 ^s .
		Medan	iP 22 18 16							7 13	5630	Destructive in Baluchistan.
		Chiufeng	P 18 40	79			18			6 39	4900	
		Stuttgart	eP 18 41							6 21	5000	
		Hamburg	eP 18 44	115	63	57	16	9	21	6 44	5100	
		Nanking	iP 19 06							7 04	5345	
		Uccle	iP 19 10	- 33	+ 58		23	34		7 00	5320	
		Bergen	P 19 12							7 04	5400	
		Batavia	iP 19 48							9 45	7040	
		Manila	iP 19 59							7 43	6045	
		Amboina	P 21 32							9 02	7690	
		Sitka	eP 23 43								10245	

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
					N	E	Z	N	E	Z				
		Fordham	eP	^{h m s} 24 01	u	μ	μ	s	s	s	m s	11055		
		Ottawa	e	24 02										
		Florissant	iP	24 40							12 10	12010		
		San Juan	eP	25 19								12445		
		Riverview	e?	25.9	500	1500		22	22					
		Buffalo	e	28 00								11100		
		Pasadena	iP'	29 10								13100		
		I.a Paz	iP'	29 39	+ 8	+ 35	+ 20	8	25	18		15000		
		Tucson	PR ₁	30 33								13120		
		Georgetown	i	34 17								11400		
62	June 15	Husan	P	21 34 43.5							1 41.8	938	Western off Amami-oosima, Kagosima Prefecture.	
		Taikyū	eS	36 28.2										
		Zinsen	eS	37 30.8										
		Chiufeng	eP	21 36 22										
		Nanking	eP	37 10										
63	June 18	Keizyō	eP?	9 23 11.4							7 33.2?	5944?	J. S. A. gives λ=149.°5W, φ=59.°2N. H=9 ^h 13 ^m 59 ^s , Depth=70km. Southern Alaska. U. S. C. G. S. gives λ=150.°W, φ=62.°N, H=9 ^h 13.8 m. Strong at Seward, Alaska.	
		Zinsen	eP?	23 43							7 03?	5380?		
		Sitka	iP	9 16 08							1 26	878		
		Victoria	P	18 25								2090		
		Bozeman	iP	19 41							4 42	2945		
		Pasadena	iP	20 30							5 25	3670		
		Tucson	iP	21 11							5 57	4145		
		Honolulu	iP	21 33							5 47	4265		
		Florissant	iP	21 44							6 21	4680		
		Ottawa	eP	22 02							6 35	4890		
		Buffalo	iP	22 08							6 42	5000		
		Harvard	iP	22 34							7 00	5445		
		Georgetown	iP	22 35							7 03	5420		
		Fordham	iP	22 39							7 02	5420		
		Nanking	eP	23 19							9 12	7720		
		Chiufeng	iP	23 33							7 49	6145		
		Bergen	eP	23 35							8 28	6980		
		Uccle	eP	24 39							8 51	7240		
		Hamburg	iP	24 45										
		Stuttgart	eP	24 55							9 05	7900		
San Juan	iP	25 03							10 35	7890				
I.a Paz	eP?	30 12	+6				23							
64	June 19	Taikyū	iP	15 49 26.1							1 51.9	1039	Southern off Hatizyō Island, Deep.	
		Chiufeng	eP?	15 51 14							2 06.?	1135?		
		Nanking	e	53 34										
65	June 21	Husan	e	18 44 40.8									Vicinity of Naze, Amami-oosima, Kagosima Prefecture.	
		Keizyō	P	45 48.0										
		Nanking	eP	18 45 48										
		Chiufeng	eL	51.0										
66	June 23	Keizyō	eP	5 26 17							4 24	2745	Manila gives λ=90°12'E,	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks			
				N	E	Z	N	E	Z						
67	June 24	Zinsen	eP?	^h 29 25							^{m s} 3 04.?	1790?	φ=32°30'N, λ=5 ^h 19 ^m 25. ^s Tibet.		
		Husan	eP	29 31.6							3 02.5	1775			
		Heizyδ	eP?	30 08.5											
		Taikyδ	eL	32 35.5											
		Chiufeng	P	5 24 29								3 48		2280	
		Nanking	P	24 49								4 06		2500	
		Medan	eP	27 06											
		Batavia	eP	29 08											
		Stuttgart	eP	30 14								8 26		7000	
		Husan	iP	6 20 08.3								4 19.2		2682	North Chile. La Paz gives
		Sucre	iP	5 59 54											λ=69.°5W, φ=22.°3S.
		La Paz	iP	6 01 12	+240	- 68			4	6		1 18		730	J. S. A. gives
		San Juan	iP	07 06								6 02		4455	λ=68°W, φ=22°S,
		Georgetown	iP	09 45								8 09		6835	H=5 ^h 59 ^m 39 ^s , Depth=100km.
		Fordham	iP	09 56								8 27		7000	U. S. C. G. S. gives
		St. Louis	iP	09 59								8 30		7110	λ=68°W, φ=23°S.
		Florissant	iP	10 02								8 28		7120	
		Chicago	iP	10 11								8 42		7335	
		Ottawa	iP	10 26								8 54		7470	
		Tucson	iP	10 27								8 41		7555	
		Cincinnati	iP	10 52								8 23		7000	
		Pasadena	iP	11 00								9 27		8200	
		Berkeley	iP	11 27								9 50		8745	
		Bergen	eP	12 52								11 00		10040	
		Uccle	iP	12 56								11 17		10500	
		Sitka	eP	13 00								11 15		10780	
		Hamburg	eP	13 15	8	32	28	18	40	40				11000	
		Stuttgart	iP	13 06								11 23		11000	
		Amboina	iP	19 04											
		Riverview	e	19 18	400	700		5	15						
Nanking	eP	19 22									18000				
Chiufeng	P'	19 27									17780				
Manila	PKP	19 31									19000				
Zi-ka-wei	iP	19 31													
Medan	P	19 32													
Batavia	iP	19 57									9960				
68	June 24	Husan	P	20 35 29.1							47.0	349	Epicentre uncertain.		
69	June 29	Husan	iP	8 32 16.6							5 34.0	3781	J. S. A. gives		
		Taikyδ	P	32 19.5							5 16.4	3491	λ=123.°3E, φ=6.2°S,		
		Zinsen	iP	32 30.7	+ 27	+ 23		4.9	4.9		5 48.3	4021	H=8 ^h 25 ^m 20 ^s , Depth=700km.		
		Keizyδ	P	32 32.9	+ 52	+ 54		6.0	6.0		5 48.6	4025	Stuttgart gives		
		Heizyδ	P	32 44.4							5 57.0	4175	λ=122.°5E, φ=5°S,		
		Amboina	iP	8 26 53								1 22	561	H=8 ^h 25.0 ^m , Depth=400km?	
		Malabar	iP	28 27								2 32	1755	Taikyδ gives	
		Batavia	iP	28 33								2 43	1845	λ=126°E, φ=0°.	
		Manila	iP	29 21								3 07	2310	Molucca Passage.	
		Medan	iP	30 07									2955		
Adelaide	P	30 44								4 22	3565				

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Melbourne	P	h m s	μ	μ	μ	s	s	s	m s	km	
		Riverview	iP	31 30	11400	29700	2400	4	4	3	5 04	4220	
		Zi-ka-wei	P	31 43									
		Nanking	iP	31 50							5 08	3365	
		Chiufeng	iP	32 51							6 02	5190	
		Wellington	P	34 02							7 07	6400	
		Tananarive	P	35 47							8 30	8320	
		Helwan	P	37 30							9 35	10555	
		Graz	P	38 22							11 04	11920	
		Stuttgart	eP	38 40							12 34	12200	
		Strasbourg	P	38 47								12400	
		Uccle	eP	38 52									
		Hamburg	e	42 09		5			15			12580	
		Göttingen	PKP	42 33								12335	
		Kew	PKP	42 45								1282	
		Pasadena	PKP	42 50								13035	
		Florissant	PKP	43 23								15090	
		St. Louis	PKP	43 25								15100	
		Ottawa	PKP	43 27								15420	
		Cincinnati	PKP	43 31								15480	
		Harvard	PKP	43 32								15780	
		Fordham	PKP	43 32								15845	
		Georgetown	PKP	43 36								15890	
		La Paz	iP'	43 56.5								17000	
		San Juan	PKP	44 04								18545	
70	July 5	Taikyū	eP?	12 06 54.4	+275	+198		2.3	2.0		38.0	282	Epicentre uncertain.
71	July 6	Husan	eP	23 01 00.4							8 49.8	7402	J. S. A. gives
		Zinsen	e	04 37									λ=124.°3W,
		Pasadena	iP	22 51 07									φ=41.°5N,
		Florissant	eP	54 35							4 39	2935	H=22 ^h 48 ^m 56 ^s .
		Ottawa	iP	56 00							5 34	3790	Of f the coast of
		Bergen	eP	23 00 06							9 26		southern Oregon.
		Ucele	eP	00 57	- 63	+ 46		17.5	16.5		9 58	8700	U. S. C. G. S. gives
		La Paz	iP	01 00	- 14	- 16	+ 18	19	18	24	10 00	8800	λ=125.°8W,
		Stuttgart	eP	01 14	47	31	50	17	17	17	10 16	8900	φ=41.°3N,
		Chiufeng	P	01 15		7					10 08	8935	H=22 ^h 48 ^m 51 ^s .
		Zi-ka-wei	e	01 32									
		Nanking	iP	01 40							9 34	8155	
		Riverview	e	14.6									
		Amboina	eL	36 —									
72	July 12	Husan	iP	9 54 45.2							4 01.5	2455	(r) 200km eastern
		Keizyō	P	54 57.1									off Kinkazan,
		Zinsen	iP	55 01.2									Miyagi Prefecture.
		Miyako		9 52 16.0	- 70	+180		1.8	1.8		24.6	183	λ=143.°9E,
		Sendai		52 25.9	-181	-199	-101	1.4	1.4	1.4	30.8	229	φ=38.°6N.
		Morioka		52 26.0	-114	+120	+ 67	0.8	0.8	0.9	32.6	244	Felt in southern half
		Hukushima		52 31.1	+193	-194	- 64	1.1	0.6	0.6	35.6	265	part of Hokkaidō,
		Akita		52 36.6	+171	+105	± 87	3.4	3.0	2.6	46.1	342	eastern part of
		Tyōsi		52 42.4	+ 32	+ 30	+ 14	1.9	1.6	1.6	41.3	306	Tōhoku and NE part
													of Kwantō districts.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Kakioka	^h 52 ^m 42.8	+ 81	+ 84	+ 68	0.8	0.8	2.5	^m 43.4	322	
		Maebasi	52 54.1	+ 48	- 62	- 31	1.5	1.8	1.0	51.4	381	
		Tōkyō	52 54.7	+ 71	- 88		1.7	2.1		47.5	353	
		Wazima	53 12.5	± 65	± 64	± 17				1 06.3	603	
		Numadu	53 18.2	+ 68	- 64		1.7	1.7		45.9	341	
		Nagano	53 23.	+ 65	± 56	± 29	3.2	2.9	2.7	40.	297	
		Nagoya	53 23.6	+ 75	± 59	- 11	2.9	2.6	2.4	1 12.0	660	
		Oosaka	53 29.6	- 27	- 30		3.2	3.7		1 55.3	1073	
		Nemuro	53 33.9							51.8	384	
		Hikone	53 35.4	- 26	+ 11		1.7	1.9		1 09.5	635	
		Kōbe	53 41.5		± 3	± 2		1.3	4.3	2 23.5	1355	
		Kōti	54 07.							1 52.	1040	
		Nagasaki	54 46.6							2 20.5	1325	
73	July 18	Heizyō	P 1 47 56.2							9 33.6	8272	J. S. A. gives λ=82.°5W, φ=8.°2N, H=1 ^h 36 ^m 20 ^s , Depth=65km. South of Chiriquí, Panama.
		Zinsen	e 55 19.									Destructive at David City and at Puerto, Armuelles.
		Taikyū	eP 57 37.2									
		Husan	P 57 56.5							7 10.5	5518	
		La Paz	iP 1 42 19	-1590	+252		26	20		4 49	3100	
		St. Louis	iP 42 45							5 03	3345	
		Ottawa	iP 43 40							5 56	4135	
		Pasadena	iP 44 16							6 26	4900	
		Uccle	iP 48 44	+143	-280		27	20.5		10 25	9290	
		Bergen	eP 48 45							10 24	9270	
		Stuttgart	iP 49 02							10 36	9500	
		Chiufeng	eP 52 23	128		161	29		27	13 23?	14445	
		Zi-ka-wei	e 55 38									
		Nanking	P' 55 51							12 37	14445	
		Amboina	iP 56 07									
		Batavia	iP 56 36									
		Riverview	iP' 57 14	3200	12000		31	22			13110	
74	July 18	Zinsen	eP? 17 21 10									J. S. A. gives λ=82.°2W, φ=8.°2N, H=16 ^h 59 ^m 49 ^s , Depth=65km. South of Chiriquí, Panama.
		La Paz	P 17 05 35	-299	+203		20	15		4 54	3160	Destructive at David City and at Puerto, Armuelles.
		St. Louis	iP 06 04							5 00	3435	
		Florissant	iP 17 06 05							5 01	3445	
		Ottawa	iP 06 58							6 07	4310	
		Pasadena	iP 07 36							6 16	4520	
		Bergen	eP 11 59							10 19	9170	
		Uccle	iP 12 01							10 17	9140	
		Hamburg	iP 12 17	34	45	52	18	20	27	10 29	9500	
		Stuttgart	iP 12 18.5									
		Chiufeng	P 18 51									
		Zi-ka-wei	e 19 05									
		Riverview	e 20.2	800	1300		14	22				
		Nanking	P 22 33									
75	July 18	Taikyū	eP 19 50 27.8	+ 59	+ 90		9.0	9.0		7 59.0	6420	J. S. A. gives λ=167°E, φ=16.°8S, H=19 ^h 40 ^m 05 ^s . New Hebrides.
		Husan	P 50 30.9	+913	±1025		50.1	42.7		7 57.4	6688	U. S. C. G. S. gives λ=167°E, φ=14°S.
		Zinsen	eP 50 36.4	±529	+757	+1066	20.1	20.8	25.0	8 41.4	7238	
		Keizyō	P 50 42.2	+790	-1220		18.6	22.0		8 18.7	6800	
		Heizyō	P 50 54.9	+500	-500		18.0	22.5		8 36.9	7148	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Riverview	eP	h m s 19 45 50	μ 55500	μ 75000	μ 6200	s 10	s 21	s 18	m s 4 55	km 3165	
		Batavia	P	47 46									
		Malabar	iP	50 21							8 06	6610	
		Batavia	iP	50 25							8 05?	6530	
		Zi-ka-wei	e	50 37									
		Nanking	P	50 46			20			18	8 29	7000	
		Chiufeng	P	51 26	1446	1172		24	25		9 15?	7790?	
		Medan	iP	51 28									
		Pasadena	iP	52 54									
		St. Louis	eP	54 39							12 17	12235	
		Florissant	eP	54 44								12220	
		Hamburg	eP	59 29	>950	900	1000	22	24	22			
		Stuttgart	P'	59 35								15300	
		Uccle	eP'	59 36	-730			23					
		La Paz	iP?	59 49	+700	- 40		62	16			13000	
		Bergen	eP	59 59									
		Ottawa	e	20 00 —									
76	July 19	Zinsen	eP	0 17 07.8							8 23.5	6890	Manila gives λ=166°30'E, φ=13°15'S.
		Keizyô	P	17 09.4									Stuttgart gives
		Riverview	iP	0 12 13	-13000	+11300	800	9	9	2	4 40	2955	λ=166°E, φ=12°S, H=0 ^h 06 ^m 35. ^s
		Amboina	P	14 03									Santa Cruz Islands.
		Batavia	iP	16 43									
		Nanking	eP	17 15							8 42	7090	
		Chiufeng	P	17 58							9 11	7700	
		Zi-ka-wei	P	18 00									
		Pasadena	iP	19 24									
		St. Louis	ePR ₁	25 28								11110	
		Hamburg	e	26 05									
		Stuttgart	eP'	26 08								15400	
		Uccle	iP	26 17									
		Ottawa	e	23.5									
		La Paz	L	1 04 00									
77	July 19	Husan	P	1 34 20.1							8 06.4	6558	Felt in Ceram and NW. New Guinea.
		Taikyû	P	34 41.5							5 38.0	3840	Manila gives
		Keizyô	eP	34 50.3		-250			13.5		6 00.0	4220	λ=133°E, φ=2°S.
		Zinsen	eP	34 51.5							5 56.7	4169	Stuttgart gives
		Heizyô	P	35 13.1							5 55.2	4135	λ=133°E, φ=1.°S. H=1 ^h 27.3. ^m
		Amboina	iP	1 28 57							1 05	600	
		Malabar	P	33 10							4 32	2960	
		Batavia	iP	33 13							4 56?	3320?	
		Zi-ka-wei	iP	34 09									
		Nanking	iP	34 24							5 40	3880	
		Medan	P	34 25							4 26	3930?	
		Riverview	eP	34 40	32400	41600	1300	12	12	14			
		Chiufeng	iP	35 33							6 25	4635	
		Pasadena	P	41 41									
		Hamburg	e	45 25	55	56	29	26	19	23			
		Ottawa	e	46.6									
		Stuttgart	ePR ₁	46 50									
		Uccle	P	47 05									
		La Paz	iP'	47 27	- 11	- 22		22	20			17150	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
78	July 19	Taikyû	eP 7 ^h 46 ^m 33.0 ^s							8 49.0	7390	Tôkyô gives New Hebrides. Manila gives λ=168°E, φ=13°45'S. New Hebrides.
		Husan	P 46 46.7							8 23.4	6888	
		Keizyô	P 47 09.3							8 46.8	7350	
		Zinsen	eP 47 21.3							8 29.1	7002	
		Ikeizyô	eP 47 36.7							8 37.8	7166	
		Riverview	eP 7 42 18	-12500	25500		10	8		4 40	2955	
		Amboina	P 44 19									
		Batavia	iP 46 59									
		Zi-ka-wei	P 47 16									
		Nanking	P 47 35							8 31	6880	
		Medan	P 48 01									
		Chiufeng	iP 48 10							9 16	7810	
		Pasadena	iP 49 38									
		Bergen	i 56 00									
		Hamburg	e 56 15	57	50	54	18	18	18		15500	
		Stuttgart	eP 56 18									
		Uccle	eP 56 26	24						18		
La Paz	eP 56 28	+ 7						18				
Ottawa	e 57.3											
St. Louis	eSKS 8 02 01											
79	July 20	Husan	e 19 06 39.5									Distant earthquake.
		Taikyû	eL 17 34.7									
80	July 21	Husan	eP 6 27 50.1	-500	-825		30.5	23.7		8 31.6	7042	Tôkyô gives New Hebrides. J.S.A. gives λ=164°E, φ=18.°2S. H=6 ^h 17 ^m 59. ^s Between New Hebrides and New Caledonia.
		Keizyô	eP 28 29.0	-149	-670		16.0	28.0		7 45.8	6180	
		Zinsen	iP 28 30.6	+235	+217	±166	15.6	23.7	16.2	8 12.9	6688	
		Taikyû	P 28 32.7							7 40.3	6076	
		Heizyô	P 28 38.0	+ 30	- 12		16.5	18.0		7 48.0	6220	
		Riverview	iP 6 23 54	56500	61600	900	15	14	15	4 55?	3135	
		Amboina	iP 25 27									
		Malabar	P 28 11							8 03	6560	
		Batavia	iP 28 13									
		Zi-ka-wei	e 28 37	± 45	- 63		12	11		8 09?	6611?	
		Nanking	iP 28 39							8 55	7350	
		Chiufeng	iP 29 21			145			17	9 02?	7500	
		Medan	P 29 24									
		Pasadena	iP 30 57									
		Florissant	eP 32 46								12565	
		St. Louis	eP 33 06							12 10?	12565	
		Stuttgart	P 35 20	47	66	40	16	16	16		16000	
La Paz	eP 37 28	-200						60				
Hamburg	e 37 35	250	500	80	40	40	27					
Uccle	eP 37 46	- 70	+110		21	24						
Bergen	eP 38(00)							14 12?				
Ottawa	e 38.2											
81	July 21	Keizyô	eP 11 00 09.9									J.S.A. gives λ=82.°5W, φ=8.2°N, H=10 ^h 39 ^m 13. ^s Depth=65km.
		Zinsen	e 16 —									
		La Paz	iP 10 45 05	>+170	>+180					4 54	3155	
St. Louis	iP 45 29							5 05	3445	Destructive at David City and Puerto Armuelles, Panama.		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Florissant	iP ^{h m s} 45 30	s	s	s	μ	μ	μ	^{m s} 5 06	^{km} 3480	U.S.C.G.S. gives λ=82.°5W, φ=7.°8N, H=10 ^h 33.7. ^m
		Ottawa	iP 46 24							5 52	4065	
		Halifax	eP 46 50							6 20	4545	
		Pasadena	iP 46 59									
		Saskatoon	eP 48 00							7 16	5555	
		Bergen	P 51 28							10 18	9150	
		Uccle	iP 51 28		- 52			21		10 20	9200	
		Hamburg	iP 51 46	36	65	50	21	21	21		9000-10000	
		Stuttgart	iP 51 46.0	16	21	28	17	17	17	10 22	9500	
		Nanking	e 58 —									
		Chiufeng	eP 58 18									
		Zi-ka-wei	e 58 27									
		Batavia	P 58 51									
		Amboina	iP 58 53									
		Medan	eP 59 01									
		Riverview	e 11 01 11	700	1700		14	17				
82	July 22	Keizyo	eP 18 48 14.3									
		Zi-ka-wei	e 18 44 32									
		Nanking	e 44(56)							2 04?	1110	
		Chiufeng	eP 46 20							3 05	1765	
83	July 22	Keizyo	eP 20 06 00.3									Manila gives λ=162°E, φ=47°N. Stuttgart gives H=19 ^h 57.0. ^m Depth=400 km.
		Chiufeng	P 20 03 32		6	10		8	8	5 17	3510	
		Nanking	P 04 06							5 40	3830	
		Zi-ka-wei	eP 04 28									
		Medan	P 04 41									
		Hamburg	eP 04 49	23	20	9	8	8	8			
		Stuttgart	iP 04 58								5100	
		Bergen	eP 05 06							10 37?	9530	
		Uccle	eP 05 19							6 46?	5070	
		Batavia	eP 06 35									
		Ottawa	e 10 50									
		Pasadena	P 14 53									
		La Paz	eP 16 00									
84	July 28	Zinsen	eP 21 46 03.6							7 41.5	6097	J.S.A. gives λ=154.°8W, φ=55.°1N, H=21 ^h 37 ^m 12 ^s , Depth=30 km, South-west of Kodiak Island, Alaska.
		Heizyo	P 46 12.4							7 21.6	5722	U.S.C.G.S. gives λ=157°W, φ=56°N.
		Keizyo	P 46 14.2							7 30.0	5880	
		Taikyû	eP 46 18.1							7 31.0	5900	
		Husan	P 46 19.5							7 33.8	5956	
		Sitka	iP 21 39 51							2 17	1235	
		Bozema	eP 43 14							4 54	3220	
		Pasadena	iP 43 45							5 28	3820	
		Florissant	eP 45 25							6 43	5000	
		St. Louis	eP 45 26							6 44	5020	
		Ottawa	eP 45 51							7 06	5380	
		Chiufeng	iP 46 43		62	72		18	20	7 51	6180	
		Zi-ka-wei	iP 47 08							8 17	6744	
		Nanking	iP 47 09							8 23	6745	
		Bergen	P 47 26							8 28	6980	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
90	Aug. 7	Husan	P	^{h m s} 3 50 14.0	μ	μ	μ	s	s	s	^{h m s} 7 59.9	km 6438	J.S.A. gives λ=178.°0E, φ=31.°1S, H=3 ^h 39 ^m 08 ^s . North of New Zealand, U.S.C.G.S. gives λ=167°E, φ=14°S. Manila gives λ=162°30'E, φ=15°S. Taikyô gives New Hebrides.	
		Keizyô	P	50 31.9										
		Zinsen	iP	50 32.7								8 26.7		6947
		Taikyô	eI.	4 05 36.0										
		Riverview	iP	3 45 33	13300	24800	1000	7	7	3	4 23	2720		
		Amboina	iP	47 35							5 49	4260		
		Malabar	P	50 06							8 00	6500		
		Batavia	iP	50 09							8 06	6610		
		Zi-ka-wei	iP	50 25							4 01?	2544		
		Nanking	iP	50 30?							8 30?	6860?		
		Chiufeng	iP	51 25	43	43	82	22	22	22	9 11	7700		
		Medan	P	51 33							9 11	7890		
		Florissant	eP'	57 35								12210		
		St. Louis	eP'	57 36										
		Stuttgart	P'	59 21								18000		
		Uccle	eP'	59 26	+ 45	- 29		24.5	24					
Hamburg	e	59 28	58	53	46	22	22	24						
Ia Paz	P'?	59 41	+ 7	- 15		18	20							
Ottawa	PR ₁	4 00 04									14000			
91	Aug. 9	Heizyô	P	22 41 40.8							21.6	161	Upper reaches of the River Daidô.	
92	Aug. 10	Husan	S	22 51 06.4										Giran, Formosa.
		Nanking	eP	22 43?										
		Zi-ka-wei	e?	43 10										
		Chiufeng	e	47.6										
93	Aus. 11	Husan	P	8 21 21.5							3 58.2	2413	(m) Vicinity of Giran, Formosa. λ=121.°8E, φ=24.°7N. Destructive at epicentral region.	
		Taikyô	P	21 25.5							3 59.0	2425		
		Keizyô	P	21 37.8							2 54.6	1685		
		Zinsen	iP	21 44.1	- 16	+106	- 50	7.0	7.5	9.7	2 46.1	1601		
		Heizyô	P	22 04.4										
		Isigakizima		8 18 14.8	±3000	±3000						27.0		200
		Taihoku		18 29.2	-10500	±5400		1.4	3.9			6.8		500
		Taiyû		18 31.0		±1198			1.0			20.0		148
		Karenkô		18 32.0			+1940			2.0		14.0		104
		Arisan		18 49.2	-1100	+964	-1154	7.9	8.4	8.0		21.3		158
		Tainan		18 51.4	-1200	-1440	-560		4.3	4.3		32.1		239
		Kôsyun		19 16.0		+1700						33.4		348
		Naha		19 45.9	±327	±186	±346	4.0	3.5	3.1	1 04.1	581		
		Naze		20 17.0								1 49.6		1016
		Tomie		20 56.1	- 31			11.5				3 06.0		1810
		Kagosima		20 58.7	- 73	+ 46		6.1	6.6			3 21.8		1989
		Nagasaki		21 02.0	- 52	+ 29	- 10	11.7	11.7	11.9		3 46.7		2277
		Miyazaki		21 05.3	-164	-100	+ 30	12.2	9.2	9.3		2 22.9		1349
		Kumamoto		21 10.7	- 30	- 21	± 15	11.5	12.2	11.3		4 12.4		2594
		Hukuoka		21 15.4		+116			26.4			4 02.1		2461
Simidu		21 16.3	± 9	± 3		11.7	11.7			6 27.7	4731			
Oosaka		21 21.4	- 19	- 18	- 8	6.5	6.5	4.0		3 02.9	1779			
Hirosima		21 28.7								5 12.3	3425			
Kôti		21 31								4 05.3	2503			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
98	Aug.22	Zinsen	e	h m s 43 46	μ	μ	μ	s	s	s	m s	km	λ=98°E, φ=0.5°S. H=19 ^h 36 ^m 10 ^s . West coast of Sumatra.
		Medan	iP	19 27 15							44	390	
		Batavia	iP	28 42									
		Malabar	iP	29 01							2 04	1180	
		Nanking	P	33 27							10 11?	9010	
		Zi-ka-wei	P	33 37									
		Chiufeng	eP	34 16	13	16		14	15		6 24	4620	
		Hamburg	e	39 —	7	3		18	18				
		Stuttgart	eP	39 13								10000	
		Riverview	e	44 32									
		La Paz	iP	46 19	8	+ 9	+ 8	18	20	18			
		Uccle	e	49 59									
98	Aug.22	Husan	e	10 41 28.1									Distant earthquake.
		La Paz	eP	10 07 46						3 18	1945		
		Nanking	P	35 18									
99	Aug.23	Chiufeng	e	35 39						3 55?	2365		
		Husan	eP	22 36 35.0						3 26.1	2031	Eastern off the cape of Siويا, Hukushima Prefecture. Felt at the epicentral region.	
		Keizyô	eP?	36 43.4									
Zi-ka-wei	e	22 38 26											
100	Aug.26	Nanking	e	38 37									
		Chiufeng	e	38 53									
		Husan	P	9 22 14.3						1 33.8	860	Eastern off Miyako, Iwate Prefecture.	
Chiufeng	eP	9 23.42						4 10	2545				
101	Aug.31	Zinsen	e	5 13 53						9 06?	7720?		J.S.A. gives λ=70°W, φ=71.°7N, H=5 ^h 02 ^m 54 ^s . Baffin Bay.
		Husan	P	14 10.1						9 11.6	7832		
		Keizyô	eP?	22 56.0									
		Ottawa	iP	5 08 35						4 39	2940		
		Bergen	eP	08 51						5 10	3385		
		Florissant	iP	09 45						5 35	3835		
		St. Louis	iP	09 45						5 37	3835		
		Hamburg	eP	10 00	38	37	32	15	11	18	5 45	4100	
		Uccle	P	10 05	- 81	- 51		22	16.5		5 51	4065	
		Stuttgart	iP	10 33	38	56	26	18	18	14	6 13	4650	
		Pasadena	iP	11 09							6 45	5000	
		Chiufeng	iP	13 42	15	18		14	14		8 56	7365	
		Zi-ka-wei	iP	14 24									
		Nanking	P	14 30?							9 40	8295	
		La Paz	iP	15 42	+ 3		- 3	13		3	10 54	9945	
		Medan	eP	17 06									
		Batavia	P	21 36									
102	Aug.31	Zinsen	eP	15 05 42.5						9 41.2	8414	Stuttgart gives λ=68°E, φ=35°N, H=14 ^h 57 ^m 25 ^s . Afghanistan.	
		Keizyô	eP	12 35.1									
		Husan	eP?	13 21.9									
		Heizyô	eL	21 37.5									
		Chiufeng	eP	15 04 33						5 34	3790		

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
					N	E	Z	N	E	Z					
130	Oct. 18	Zinsen	e	h m s 27 09.7	+ 8	+ 10		4.1	5.0						
		Keizyô	e	27 09.7	+ 62	- 56		4.8	4.2						
		Taikyû	P	28 29.6											
		Husan	P	28 51.1											
		Chiufeng	eP?	8 20 49								2 20?	1290		
		Nanking	eP	22 22								5 58	4169		
		Pasadena	e	30 29											
		Stuttgart	e	36 25											
		Hamburg	e	44 49		7	6		11	14					
		Batavia	P	45 00											
		Uccle	eL	50 --											
		Keizyô	P	7 58 31.0		- 44	+ 73		6.0	8.0		8 13.2	6690	Manila gives	
		Zinsen	eP	58 34.3								8 12.0	6670	λ=167°E, φ=11°S. Stuttgart gives	
		Florissant	e	7 47 53										λ=167°E, φ=10°S, H=7 ^h 48 ^m 30. ^s	
		Riverview	iP	54 01		4500	4700		16	14		4 49	3080	Tôkyô gives	
		Batavia	iP	58 15								8 38	7220	Santa Cruz Island.	
		Zi-ka-wei	P	58 26										Tôkyô gives	
		Nanking	iP	58 43								8 24	6755	Solomon Islands.	
		Chiufeng	P	59 25								8 59	7435	U.S.C.G.S. gives	
		Medan	P	59 26								9 05	7760	H=7 ^h 48 ^m 16 ^s .	
		Pasadena	iP	8 01 01											
		St. Louis	ePR ₁	07 13									11445		
		Stuttgart	P	08.0									15000		
		Uccle	eP?	08.0											
		Ottawa	e	08 20											
		La Paz	e	08 47		+ 6	+ 7		18	18					
		Hamburg	e	10 17		13	14		15	21	21	21			
		131	Oct. 21	Husan	eP	17 58 21.6							1 30.4	834	Manila gives
Keizyô	P			58 47.7							4 16.2	2640	λ=153°E, φ=16°N.		
Zinsen	eP			59 06.3							3 57.9	2409	East of Marianne Is-		
Taikyû	P			59 08.5							3 14.7	1910	lands. Stuttgart gives		
Nanking	P			17 58 31?							3 52?	2320	H=17 ^h 52.5 ^m		
Zi-ka-wei	P			58 51							3 48	2356	Tôkyô gives		
Batavia	iP			18 01 43							7 42	6180	Southern off Bonin		
Medan	iP			02 15									Islands. U.S.C.G.S. gives		
Riverview	e			02.5									λ=147°E, φ=16°N.		
Pasadena	iP			05 55							10 02	8830	H=17 ^h 53 ^m 21 ^s		
Stuttgart	eP			07.2								12200	North Pacific.		
La Paz	iP			13 03											
St. Louis	e			17 34											
Uccle	e			17 37											
Ottawa	e			17 48											
132	Oct. 26			Husan	P	14 51 29.1									Tôkyô gives
		Zinsen	iP	51 46.5							5 46.8	3996	λ=122°E, φ=1°N.		
		Keizyô	P	51 46.5		+ 66	+ 77		5.8	5.8	5 47.6	4010	Celebes. Stuttgart gives		
		Malabar	iP	14 47 53							2 44	1600	H=14 ^h 44.2 ^m .		
		Batavia	iP	47 55							2 55	1720	North Pacific.		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Nanking	iP	^h 13 ^m 48 ^s	μ	μ	μ	s	s	s	^m 2 ^s 08	1155	
		Chiufeng	iP	15 02	77			14			3 08	1800	
		Medan	iP	18 50							6 13	4650	
		Batavia	iP	19 04							6 22	4810	
		Hamburg	i	23 36	26	31	31	16	16	16			
		Stuttgart	eP	23 50							8 30	9500	
		Uccle	iP	23 55	- 38	- 30		15.5	15.5				
		Pasadena	iP	24 00									
		Riverview	i	30 39									
		La Paz	eP	31 12	6			20					
		Ottawa	e	35 35									
		Bergen	?	55 —									
134	Oct. 26	Husan	P	20 52 10.8							1 23.6	766	After shock of No. 133.
		Chiufeng	e	20 55 01							3 15?	1880	
135	Oct. 28	Husan	P	23 39 12.1							2 24.6	1369	SE off Karenkô,
		Zinsen	eP	39 13.6							2 52.7	1667	Formosa.
		Taikyô	eP	39 19.3							3 27.3	2045	Taihok ugives
		Keizyô	P	39 24.2							4 08.0	2540	λ=126°E,
		Heizyô	P	39 35.8							4 41.0	2970	φ=24°N.
		Zi-ka-wei	e	23 38 05							1 23?	820	
		Nanking	iP	38 26							2 02	1090	
		Chiufeng	iP	40 16							3 21	1945	
136	Oct. 29	Husan	e	16 33 45.0									Stuttgart gives
		Zinsen	e	46 25									Region of Caspian Sea.
		Bergen	?	16 20 —									
		Stuttgart	eP	21.5							5 12?	3600	
		Hamburg	e	22 —	27	20	7	6	7	7			
		Uccle	e	22.5									
		Chiufeng	P	24 42							7 16	5555	
		Nanking	eP	25 24							7 46	6100	
		Zi-ka-wei	e	25 40									
		Batavia	eP	28 12									
137	Nov. 4	Keizyô	P	2 05 34.0							9 23.0	8060	Tôkyô gives
		Riverview	eP	1 58 50	5300	+9600					4 23	2720	Fiji Islands.
		Batavia	P	2 04 36				9	9		9 47?	8640?	Manila gives
		Chiufeng	eP	06 09							9 09	9220	λ=169°E,
		Pasadena	iP	06 17									φ=15°S.
		Stuttgart	eP	09.6									Region of New
		La Paz	e	12 52	3		4	16		16			Hebrides.
		Hamburg	e	13.4	11	5	13	24	24	24			Stuttgart gives
		Uccle	eP?	13.8									H=1 ^h 53.5 ^m
		Ottawa	e	19.6									U.S.C.G.S. gives
													λ=176°E,
													φ=22°S.
													H=1 ^h 53 ^m 41 ^s .
													South Pacific.
138	Nov. 4	Keizyô	P	3 25 57.4							9 37.6	8350	Manila gives
		Zinsen	eS?	35 35									λ=178°E,
													φ=23°S.
													Region of Fiji Islands.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
144	Nov.16	Keizyô	P?	^{h m s} 34 19.4	μ	μ	μ	s	s	s	m s	km	Mongolia, U. S. C. G. S. gives In region of λ=146°E, φ=3°S, H=13 ^h 43.5 ^m New Guinea Tôkyô gives Banda Sea.
		Zinsen	eP	34 26.4							3 23.5?	2005?	
		Taikyû	eP	34 44.3									
		Chiufeng	eP	23 29 34							3 44?	2300	
		Nanking	e	38 40									
		Zinsen	e	13 55 35							3 54.6	2369	
		Husan	P	56 46.8									
		Keizyô	e	58 22									
		Nanking	eP	13 51 30							6 39	4900	
		Medan	eP	52 08							6 33	6000	
		Batavia	P?	52 22									
		Chiufeng	eP	52 26							7 21	5756	
		Ia Paz	eP?	14 03 48	+ 3			18					
		Stuttgart	e	06 —									
Hamburg	e	14 —		12	6		21	21					
Uccle	eL	45 —											
145	Nov.18	Keizyô	P	3 29 17.0							6 14.8	4500	Strasbourg gives λ=66.°5E, φ=37°N. Turkestan. Stuttgart gives λ=69°E, φ=37.5N, H=3 ^h 21 ^m 10 ^s Depth=200km. Buchara, Afghanistan.
		Zi-ka-wei	e	3 26 58									
		Nanking	P	27 26						5 48	4100		
		Chiufeng	P	28 03						5 20	3624		
		Hamburg	iP	29 19	27	62	12	7	17	9			
		Stuttgart	iP	29 27.0							6 29	5000	
		Uccle	P	29 48							6 50	5100	
		Medan	iP	29 —									
		Batavia	iP	31 29							3 42?	2220	
		Pasadena	i	40 10									
		Ia Paz	iP'	40 29									
146	Nov.18	Keizyô	iP	22 48 56.4							6 57.6	5285	U. S. C. G. S. gives λ=152°E, φ=4.°S, H=22 ^h 40 ^m 26 ^s Depth=Normal. Solomon Islands. Stuttgart gives λ=152°E, φ=3.°S, H=22 ^h 39 ^m 50 ^s Bismarck Archipelago. Felt in Sydney.
		Zinsen	iP	48 56.9							6 54.7	5229	
		Riverview	e	22 46 16	+5400	2200	200	7	9	1			
		Batavia	P	48 34									
		Malabar	P	48 36									
		Nanking	iP	49 08							7 11	5470	
		Chiufeng	iP	49 51		15			20		7 33	5967	
		Pasadena	iP	53 17									
		Hamburg	e	49 (08)									
		Stuttgart	iP'	59 14		11			26			14000	
		Uccle	iP	59 16									
		Ia Paz	iP'	59 32	+ 7			22					
		Little Rock	ePR ₁	59 54									
		Ottawa	e	23 06 —									
147	Nov.26	Husan	iP	12 14 08.8							4 06.7	2521	Manila gives λ=120°10'E, φ=14°10'N. 90km. SW of Manila. Felt in Manila, Lubang.
		Taikyû	P	14 17.9							4 07.8	2540	
		Zinsen	iP	14 25.3							4 18.3	2670	
		Keizyô	P	14 27.0							4 10.7	2575	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Puration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
		Zi-ka-wei	iP	h m s 12 13 13	μ	μ	μ	s	s	s	m s 3 05	km 1811	Tokyo gives λ=119°E, φ=14°N. Luzon. Stuttgart gives H=12 ^h 09 ^m 20. ^s	
		Nanking	iP	13 20							3 32	2080		
		Amboina	iP	13 30							3 35	2200		
		Medan	iP	13 31							4 04	2570		
		Batavia	iP	14 27							4 14	2710		
		Malabar	P	14 33										
		Chiufeng	iP	14 46							4 24	2790		
		Riverview	e	19.1	+1400	400		6	14					
		Stuttgart	eP	22 22							10 58	10300		
		Uccle	eP	22 28							11 13	10900		
		Pasadena	P	26 35										
		Ottawa	e	29 3										
		La Paz	eP	29 59										
		Hamburg	i	32 38										
148	Nov.27	Husan	iP	6 20 46.6							5 12.6	3429	Tokyo gives λ=128°E, φ=3°N. Molucca Island. U. S. C. G. S. gives λ=128. ^o 5E, φ=1.5°N H=6 ^h 14 ^m 07. ^s Depth=Normal. J. S. A. gives λ=128°E, φ=2. ^o 7N, H=6 ^h 14 ^m 16. ^s Batavia gives λ=127°E, φ=3. ^o 5N. Felt in Minahasa, North Celebes, North Moluccas and Sangih Islands. Manila gives λ=125°E, φ=3°N.	
		Taikyū	P	20 53.0							5 21.1	3565		
		Zinsen	iP	21 07.0							5 27.9	3674		
		Keizyō	iP	21 07.7							5 29.8	3700		
		Heizyō	P	21 20.3							5 42.5	3918		
		Amboina	iP	6 15 19							1 31	850		
		Batavia	iP	19 07							4 03	2560		
		Malabar	iP	19 13							3 53	2420		
		Medan	iP	20 14							4 45	3170		
		Nanking	iP	20 20							5 04	3310		
		Zi-ka-wei	eP	20 18							4 53	3333		
		Chiufeng	iP	21 41		9	9		12	12	4 34	2922		
		Riverview	P	22 01	3800	5600	-1100		11	7	3	6 16		4465
		Pasadena	iP	28 36										12100
Stuttgart	eP	28 40									11900			
Hamburg	i	32 34	18				17							
Uccle	e	32 42												
Little Rock	eP	33 10												
St. Louis	eP	33 11									13980			
Florissant	eP	33 15									13980			
La Paz	iP	34 10	+ 8	+ 7	- 2		24	22			17600			
Ottawa	e	35.4												
149	Nov.30	Taikyū	S?	2 30 07.5									J. S. A. gives λ=105°W, φ=18. ^o 5N, H=2h05 ^m 12. ^s Depth=30km. Mexico. U. S. C. G. S. gives λ=105. ^o 5E, φ=18. ^o 3N, H=2 ^h 05 ^m 22. ^s	
		Keizyō	e	32 57	± 9	± 8		15.0	16.0					
		Husan	eP	33 03.4							5 30.5	3715		
		Zinsen	e	50 09										
		Little Rock	eP	2 09 47							3 43	2210		
		St. Louis	eP	10 25							3 18	2645		
		Florissant	eP	10 26							3 18	2655		
		Ottawa	iP	12 18							5 42	3910		
		La Paz	iP	14 13	- 51		- 70		20		20	7 18		5660
		Bergen	iP	16 23								10 44		
		Uccle	eP	18 04	- 77	-107			35	36		10 31		9450
		Hamburg	eP	18 12	70	110	100		18	32	32	10 30		9450
		Stuttgart	eP	18 21.5								11 03		10100
		Chiufeng	P	24 24	14	19	20		16	18	18	9 24		8067

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks				
				N	E	Z	N	E	Z							
150	Dec. 7	Batavia	iP	h m s 24 55	μ	μ	μ	s	s	s	9 31?	3044				
		Nanking	e?	25 ±												
		Zi-ka-wei	e	25 00												
		Riverview	e?	30.8												
		Taikyū	eP	10 47 24.5												
		Zinsen	eS?	47 47.1												
151	Dec. 10	Keizyō	e	48 34							1 30	880	Northern off Amami Oosima, Kagosima Prefecture.			
		Zi-ka-wei	e?	10 45 52												
		Nanking	eP	46 46												
		Chiufeng	I.	51 34												
		Husan	P	10 06 59.9										8 20.7	6934	Tōkyō gives λ=121°E, φ=4°N.
		Amboina	iP	9 57 52										1 04	590	Celebes Sea.
152	Dec. 12	Manila	iP	10 00 01							1 00	510	Felt in Minahasa, North Celebes, and Ternate, North Moluccas by Batavia.			
		Batavia	iP	10 01 26												
		Medan	iP	02 34							4 42	3130				
		Nanking	P	02 50							5 04	3310				
		Chiufeng	eP	04 03							5 36	3900				
		Zinsen	eP	10 09 16.2							21.7	161	Yellow Sea. (Near Tyōsen.)			
153	Dec. 15	Keizyō	P	09 27.9							53.8?	399	λ=124°E, φ=37°N.			
		Chiufeng	P	10 10 24												
		Nanking	e	14 02												
153	Dec. 15	Heizyō	P	2 03 55.5	±176	+ 52		17.1	13.5		5 02.7	3277	Tōkyō gives λ=90°E, φ=33°N.			
		Zinsen	eP	03 55.8	±1120	-480		22.2	17.0		5 11.1	3406	Tibet.			
		Keizyō	P	04 09.0	+750			20.0			5 01.6	3270	Stuttgart gives λ=89.°2E, φ=30.°5N, H=1h 57m30.s			
		Taikyū	eP	04 17.5							5 19.0	3515	Manila gives λ=89°E, φ=32°N.			
		Husan	iP	04 21.1	± 25	± 2		32.0	15.0		5 09.0	3370	U. S. C. G. S. gives λ=90°E, φ=32°N, H=1h 57m39.s			
		Chiufeng	P	2 02 48							4 19	2720	Depth=Normal.			
		Nanking	P	03 08	440	302	169	11	12	9			5820	Strasbourg gives λ=89°E, φ=31.°5N.		
		Zi-ka-wei	eP	03 26							4 45	3200				
		Medan	P	03 43							4 12	3600				
		Manila	P	04 19							5 31	3920				
		Batavia	P	05 24							6 39	5060				
		Amboina	P	06 41							6 47	5820				
		Malabar	P	07 08							7 25	5790				
		Hamburg	iP	07 41	330	160	140	11	11	11	8 14	6700				
		Bergen	iP	07 42.5							8 16	6740				
		Stuttgart	eP	07 53.0	150	105	125	16	17	17	8 23	6900				
		Uccle	eP	08 08	+240	+110		17	18		8 37	6990				
		Riverview	e	09 57	1900	1200		6	31							
		Ottawa	e?	15 48												
		Florissant	e	16 27												
Little Rock	e	16 42														
La Paz	P'	17 31	+ 60	+110	- 43	41	42	22								
St. Louis	e	24 26										12780				
154	Dec. 15	Husan	P	19 02 15.4							51.4	331	Local shock?			

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	AZ				
		F	h m s	μ	μ	μ	s	μ	km	
8	Jan. 20	eP?	22 33 15.7						1034	Northern far off Keelung.
		eS	35 07.1							
		F	46 ±							
9	Jan. 20	P	— — —							Ditto.
		eS	22 47 58.3							
		F	55 ±							
10	Jan. 20	ePN	22 55 31.5						1386	Bashi Channel?
		eSE	57 57.2							
		iLE	59 22.4							
		ME	23 00 26.4	± 19	— 19		5.1			
		MN	03 07.4				6.4			
		F	27 ±							
11	Jan. 21	ePN	6 58 39.1						1519	Formosa Strait?
		eSE	7 01 18.0							
		iLE	02 31.4							
		ME	05 24.1		± 32		9.7			
		MN	05 53.4	+ 64			9.7			
		MZ	05 53.4			± 43	8.8			
		F	30 ±							
12	Jan. 22	ePN	7 52 43.6						1433	Ditto.
		eSE	55 13.9							
		iLE	56 52.7							
		ME	57 28.6		— 11		4.7			
		MN	8 00 18.8	± 29			9.1			
		F	20 ±							
13	Jan. 23	eP?	18 58 53.						1320	Northern off Keelung.
		eS?	19 01 13.							
		F	12 ±							
14	Jan. 29	eP	1 40 38.1						661	Western foot of Mt. Aso.
		iS	41 45.2							
		F	48 ±							
15	Feb. 3	ePH	14 41 52.6						5249	New Britain Islands.
		eSN	48 48.3							
		eLN	56 46.4							
		F	15 11 ±							
16	Feb. 4	eL?	14 00 31.4							Persia.
		F	15 ±							
17	Feb. 4	eP?	22 09 10						4616	Banda Sea.
		eS	15 31.3							
		F	32 ±							

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks	
				AN	AE	Az					
18	Feb. 9	eP	^b 9	^m 37	^s 27.3	μ	μ	μ	5496 ^{km}	Distant earthquake.	
		eS?		44	36.9						
		eL?		48	10.0						
		F	10	00	\pm						
19	Feb. 12	ePE	11	41	35.7				3057	Indo-China range.	
		eSN		46	22.8						
		ME		47	11.1	\pm 83		13.8			
		F	12	08	\pm						
20	Feb. 14	iPH	4	04	21.2	+ 6.3	+ 2.8		2401	Western off Luzon.	
		iPz		04	21.9			+ 6.8			
		iSz		08	12.6						
		iSH		08	18.3						
		M _{1E}		08	23.5		+ 132				7.4
		M _{1N}		08	28.5	+ 215					7.9
		iLz		10	30.8						
		eLN		10	39.8						
		Mz		12	22.0			- 375			20.6
		M _{2N}		13	44.2	\pm 385					17.5
		M _{2E}		17	31.3		- 285				13.8
		F	5	50	\pm						
		21	Feb. 16	eP?	6	42	03.				
eS?				47	38.						
F	7			20	\pm						
22	Feb. 19	eP?	10	40	00.					Distant earthquake.	
		eL?		53	00.						
		F	11	20	\pm						
23	Feb. 24	iPH	6	28	23.1	+ 4.2	- 4.6		2352	SSE off Titizima.	
		iPz		28	23.4			+ 5.4			
		iSz		32	15.7						
		iSH		32	16.3						
		eLz		34	20.8						
		eLE		34	27.2						
		Mz		35	52.7			- 374			20.5
		MN		35	54.1	+ 245					15.8
		ME		36	58.1		- 300				18.1
		F	8	34	\pm						
24	Feb. 28	eP?	14	30	24.				6550	Bismarck Archipelago.	
		eS		38	30.						
		F	15	27	\pm						
25	Mar. 1	e?	22	13	25.					Chile, Damage at Valdivia.	
		F		26	\pm						
26	Mar. 4	eP?	11	28	57.					Aleutian Islands?	
		L?		34	54.						

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
		F	^h	^m	^s	μ	μ	μ	s	μ	km	
27	Mar. 5	ePz	11	59	14.2						8950	Pegasus Bay, South Island, New Zealand. Damage on North Island.
		eSN	12	09	22.							
		F	13	40	±							
28	Mar. 13	eP?	13	21	31.						6980	Towards to New Hebrides.
		eS?		29	59.							
		F	14	04	±							
29	Mar. 18	e	0	21	58.0							Lower valley of Yangtze River.
		F		27	±							
30	Mar. 18	iPH	4	38	31.7						2435	Kamtchatka.
		eLE		43	11.3							
		F		54	±							
31	Mar. 20	ePN?	2	46	49.7						5420	Bismarck Archipelago.
		eS?		53	54.7							
		F	3	13	±							
32	Mar. 24	iPH	12	14	40.1				S ward		5918	Solomon Archipelago.
		iSH		22	12.0				W ward			
		eLN		30	43.9							
		F	13	26	±							
33	Apr. 3	eP	22	35	38.5						1803	NW off Titizima.
		eS		38	43.8							
		F	23	02	±							
34	Apr. 6	iPeZ	19	12	22.2		- 4.0	+ 2.8		W 4.0		NE off the cape of Sioya.
		iE		12	47.9					U 2.8		
		eLE		16	14.5							
		F		32	±							
35	Apr. 10	eP	10	31	20.3							Felt East Java, Bali, Lombok.
		F	11	14	±							
36	Apr. 12	P	—	—	—							Distant earthquake.
		eS	9	25	11.9							
		F		30	±							
37	Apr. 15	iPN	22	21	21.6					W ward	3030	Mindanao.
		eSN		26	06.6					D ward		
		eLE		29	39.5							
		ME		35	59.5		- 154		20.6			
		Mz		36	12.2			± 240	18.4			
		MN		36	16.8	+ 200			17.3			
		F	24	03	±							
38	Apr. 16	eP	13	44	14.5							SE off Garanbi, Formosa.

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	AZ				
		F	^h 14 ^m 02 ^s ±	μ	μ	μ	s	μ	ku	
39	Apr. 19	iP eS F	16 16 18.0 18 32.3 30 ±					W ward N ward	1263	Southern off Hatizyôzima.
40	Apr. 30	eP? eS F	15 23 52. 27 23. 36 ±						2090?	Southern off Titizima.
41	May 1	iP _N F	7 12 40.5 51 ±							NW Sumatra.
42	May 3	eP F	1 34 51. 2 07 ±							NNW off Titizima.
43	May 4	eP _Z iS _N eL _N F	4 45 43.7 53 26.4 5 02 42.7 50 ±						6116	Alaska.
44	May 13	eP _E iS _E F	9 10 49.0 17 51.1 40 ±						5362	Bismarck Archipelago.
45	May 21	eP? eS F	4 38 42. 44 32. 5 03 ±						4050?	Northern off Formosa.
46	June 2	eP _E ? eS _N F	21 31 27. 32 43.2 40 ±						690?	Hyôganada.
47	June 9	eP _N eS _E F	13 07 10.6 13 54.9 44 ±						5041	Bismarck Archipelago.
48	June 13	eP _H eS _H F	1 54 50.4 57 56.9 2 28 ±						1815	Northern off the island of Sikotan.
49	June 13	iP _Z F	22 19 43.5 23 00 ±							Afghanistan.
50	June 15	eS _E F	21 37 30.8 46 ±							Western off Amami-oosima.
51	June 18	eP? eS F	9 23 43. 30 48. 10 00 ±						5380	Southern Alaska.

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	Az				
52	June 23	eP _N ?	h 5 m 29 s 25.	μ	μ	μ	s	μ	km 1790	Tibet.
		eS _N ?	32 29.							
		eL _N ?	34 38.							
		F	55 ±							
53	June 29	iP _Z	8 32 30.5	+ 27	+ 23		4.9	S ward D ward	4021	Molucca passage.
		iP _N	32 30.7							
		iPP _Z	33 59.7							
		iS _H	38 19.0							
		M _E	38 22.7							
		M _N	38 22.7							
		i _N	39 32.8							
F	9 08 ±									
54	July 6	e	23 04 37.							Off the coast of southern Oregon.
		F	40 ±							
55	July 12	iP _E	9 55 01.2					W ward	1538	Eastern off Kinkazan.
		eS _N	57 42.0							
		F	10 09 ±							
56	July 18	eH	1 55 19.							South of Chiriqui, Panama.
		eL?	2 14 20.							
		F	4 22 ±							
57	July 18	eP?	17 21 10.							South of Chiriqui, Panama.
		F	18 50 ±							
58	July 18	eI _H	19 50 36.4	- 6.6	+ 4.6	- 19.8			7238	New Hebrides.
		eP _Z	50 37.0							
		iP _Z	50 44.9							
		iP _H	50 45.3							
		iPR _{1H}	51 33.3							
		iPR _{1Z}	51 33.5							
		eS _E	59 17.8							
		eL _E	20 06 06.4							
		M _Z	12 21.5							
		M _{1E}	12 34.1							
		M _N	13 27.0							
		M _{2E}	14 50.0							
F	22 50 ±									
59	July 19	eI'	0 17 07.8						6890	Santa Cruz Islands.
		eS	25 31.3							
		F	50 ±							
60	July 19	eP _N	1 34 51.5	± 529	+ 757	± 1066	25.0 20.8 20.1 21.2		4169	Felt in Ceram and NW New Guinea.
		eP _Z	34 52.7							
		iPR _{1N}	36 23.3							
		iPR _{1Z}	36 24.3							
		eS _N	40 48.2							

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks		
				A _N	A _E	A _Z						
61	July 19	eLE	b	m	s	μ	μ	μ	km	New Hebrides.		
		F	43	24.7	2						42	±
		ePN	7	47	21.3						7092	
		eSN	55	50.4								
62	July 21	F	8	57	±	+ 217	+ 217	± 166	E ward D ward	6688	New Hebrides.	
		iPH	6	28	30.6							
		iPz	28	30.8								
		eSN	36	43.5								
		eSE	36	46.2								
		iN	41	15.9								
		iLE	43	45.3								
		iLN	43	47.6								
		M ₁ N	46	54.6								
		M ₁ E	46	57.6								
		Mz	49	58.6								
		M ₂ E	50	33.6								
		M ₂ N	51	10.4								
F	8	41	+	+ 235								
63	July 21	e	11	16	—						Panama.	
		F	12	22	—							
64	July 28	ePN	21	46	03.6					6097	Alaska.	
		eSN	53	45.1								
		F	22	54	±							
65	July 31	iPN	6	03	43.8					2522	Luzon.	
			07	50.6								
			16	±								
66	July 31	e	12	04	—						North Sumatra.	
		F	22	±								
67	Aug. 4	ePE	13	16	04.					4851	New Guinea.	
		eSN	22	36.								
		F	42	±								
68	Aug. 7	iPH	3	50	32.7					6954	New Hebrides.	
		eSH	58	59.4								
		eLN	4	02	45.4							
		F	5	15	±							
69	Aug. 11	iPz	8	21	43.7					1601	Giran, Formosa.	
		iPN	21	44.1								
		iSH	24	30.2								
		eSz	24	33.0								
		iLH	25	37.6								
		iLz	25	38.3								
		ME	26	29.4	+ 106							7.5

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
			h	m	s	μ	μ	μ	s	μ	km	
70	Aug. 12	M _N	26	29.4		- 16			7.0		3104	Mindanao.
		M _Z	32	10.6				- 50	9.7			
		F	9	12 ±								
70	Aug. 13	eP _N	23	55	23.3						990	Vicinity of Yahata, Gihu Prefecture.
		i _N	56	26.2								
		eS _N	0	00	13.9							
		i _E	02	04.6								
		eL _N	02	46.3								
71	Aug. 18	F	1	00 ±								
71	Aug. 18	eP _E	2	40	49.						990	Vicinity of Yahata, Gihu Prefecture.
		eS _N	42	36.								
		eL _H	43	19.								
		F	52	±								
72	Aug. 21	e _N	19	43	46.						7720	Baffin Bay.
		eL?	51	30.								
		F	20	15 ±								
73	Aug. 31	e	5	13	53.						7720	Baffin Bay.
		eS?	22	59.								
		F	6	20 ±								
74	Aug. 31	eP _E	15	05	42.5						8414	Afghanistan.
		eS _N	15	23.7								
		eL _N	20	58.9								
		F	16	00 ±								
75	Sep. 12	eP _N ?	14	24	25.0						1504	Ditto.
		F	overlapped by next quake.									
76	Sep. 12	eP _H	14	28	02.9						1504	Ditto.
		eS _H	30	40.3								
		M _E	31	23.5		+ 41						
		M _Z	31	51.9				± 26	8.7			
		M _N	31	53.3		± 83			10.0			
		F	15	00 ±					11.4			
77	Sep. 12	P	—	—	—						926	Ditto.
		eS	15	39	42.6							
		F	52	±								
78	Sep. 12	eP _N	17	44	59.0						926	Ditto.
		eS _H	46	39.6								
		M _N	47	47.2		- 26			9.6			
		F	18	03 ±								
79	Sep. 16	P	—	—	—						Ditto.	Ditto.
		eS _H	13	18	59.4							
		M _E	19	46.7		+ 27			8.7			

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	AZ				
			h	m	s	μ	μ	μ	s	μ	km	
80	Sep. 25	MN	19	20	17.8	± 42	μ	μ	11.5	μ		
		F	40	±								
		iPH	19	23	04.3							
81	Oct. 5	iS	19	30	40.4						5997	New Ireland
		F	39	±								
		ePE	20	29	08.4							
82	Oct. 10	eL	20	33	13.0						1500	Southern off the cape of Erimo.
		F	50	±								
		iPZ	15	53	17.0							
83	Oct. 15	iPH	15	53	17.3	- 2.0	+ 1.9	- 6.0	2.7	S 2.0	7908	Fiji Island.
		ePRiZ	15	55	18.8							
		iSH	16	02	32.7							
		eSZ	16	02	32.8							
		ME	16	02	39.2							
		MN	16	02	39.2							
		iP'P'H	16	23	43.3							
		F	16	38	±							
		eN	8	27	09.7							
		eSN	8	27	26.3							
84	Oct. 18	iE	8	27	38.9	+ 3			4.1			Mongolia?
		MN	28	00.0								
		ME	28	20.9								
		F	43	±								
		eLN	7	58	34.3							
85	Oct. 21	eSN	8	06	46.3						6670	Santa Cruz Island,
		F	40	±								
		ePE	17	59	06.3							
86	Oct. 26	eSN	18	03	04.2						2409	East of Marianne Islands.
		F	21	±								
		i'E	14	51	46.5							
87	Oct. 26	iSH	14	57	33.3					S ward	3996	Celebes.
		F	15	06	±							
		iPH	17	13	22.7							
88	Oct. 28	iPZ	17	13	23.1	- 4.1	+ 1.9	- 1.5		S 4.1	984	Eastern off Tanegasima, Kagosima Prefecture.
		iSZ	15	09.1								
		iSH	15	09.9								
		iLZ	16	11.3								
		ME	17	24.2								
		MZ	17	34.9								
		MN	17	36.9								
		F	18	02	±							
		ePE	23	39	13.6							

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	AZ				
			h	m	s	μ	μ	μ	s	μ	km	
		eSE		42	06.3							
		eSE		43	47.3							
		F		53	±							
89	Oct. 29	eN	16	46	25.							Region of Caspian Sea.
		F	17	00	±							
90	Nov. 4	eSH?	3	35	35.	.						Fiji Island.
		F	4	04	±							
91	Nov. 5	ePH	23	10	18.5						4644	Bering Sea, North of Aleutian Islands.
		ePR ₁ N		12	07.3							
		eSN		16	41.4							
		F		50	±							
92	Nov. 11	eS	21	24	50.2							Soō-gun, Formosa.
		eL		26	33.7							
		F		31								
93	Nov. 12	ePE	23	34	26.4						2005?	Mongolia.
		eSE?		37	49.9							
		F		43	±							
94	Nov. 16	eE	13	55	35.							Banda Sea.
		F	14	20	±							
95	Nov. 18	iPH	22	48	56.9	+ 3.0	- 2.8		1.8	N 3.0	5229	Solomon Islands.
		eSH		55	51.6				1.8	W 2.8		
		F	23	11	±							
96	Nov. 26	iPN	12	14	25.3	+ 5.0			5.9	N 5.0	2670	SW of Manila.
		iPz		14	25.9			+ 2.8	4.7	U 2.8		
		iSN		18	43.6							
		F		37	±							
97	Nov. 27	iPz	6	21	06.6			- 5.3	3.6	S 3.7	3674	Malucca Island.
		iPN		21	07.0	- 3.7			3.6	D 5.3		
		ePR ₁ N		22	39.7							
		eSE		26	34.9							
		eLE		30	28.1							
		F		57	±							
98	Nov. 30	e	2	50	09.							Mexico.
		eL?	3	17	16.							
		F		47	±							
99	Dec. 7	eS?	10	47	47.1							Northern off Amami-oosima, Kagosima Prefecture.
		F		55	+							Yellow Sea.
100	Dec. 12	ePE	10	09	16.2						161	
		eSE		09	37.9							

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						A _N	A _E	A _Z				
			h	m	s	μ	μ	μ	s	μ	km	
101	Dec. 15	F	11	50.							3406	Tibet.
		ePE	2	03	55.8							
		iPR _{1E}		04	54.5							
		iSE		09	06.9							
		iSR _{1E}		10	43.6							
		iLN		13	36.9							
		MN		15	01.7	±1120			22.2			
		iLE		15	26.4							
		ME		16	10.5		-480		17.0			
		CE		20	37.5							
		F	3	29	±							
102	Dec. 17	eS?	3	43	40.1						5055	Vicinity of Karenkô, Formosa.
		F		47	±							
103	Dec. 17	eLN	16	00	48.7						5055	Bismarck Archipelago.
		ePR _{1N}		02	12.7							
		ePR _{2N}		02	59.9							
		eSN		07	33.7							
		eSR _{1N}		10	36.7							
		eLN		14	16.5							
		F		36	±							
104	Dec. 18	e	11	37	33.						5055	Tibet.
		F		47	±							
105	Dec. 25	ePE?	6	36	34.						5055	Marianne Islands.
		eLE?		42	41.							
		F		55	±							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
1	Jan. 3	P ₁	^h 9 ^m 47 ^s 38.0	μ	μ	s	μ	2504 ^{km}	Kamchatka.
		P ₂	48 33.8						
		S	51 43.4						
		L	53 22.4						
		F	24 ±						
2	Jan. 12	eP	13 41 55.0						Yunnan, China?
		L	45 22.5						
		F	14 14 ±						
3	Jan. 15	P	8 50 16.8	-860	-312	12.0		3887	Very destructive in Bihar, India, and Nepal.
		S	55 57.4						
		L	9 00 00.0						
		M _N	04 39.2						
		M _E	09 09.5						
F	12 28 ±								
4	Jan. 19	eP	12 43 48.9						North Burma.
		eL	48 04.7						
		F	22 ±						
5	Jan. 20	eP	17 59 41.0					1940	Middle valley of the River Hoangho, Mongolia.
		eS	18 02 59.0						
		L	05 01.0						
		F	28 ±						
6	Jan. 22	P	7 55 06.7					1156	Formosa Strait.
		S	57 10.3						
		F	8 15 ±						
7	Jan. 28	e	19 38 47.0						Damage at Acapulco, Mexico.
		F	20 52 ±						
8	Jan. 29	eP	1 40 35.2					590	Western foot of Mt. Aso.
		S	41 40.2						
		F	52 ±						
9	Feb. 3	eP	14 41 52.6					5231	New Britain Islands.
		eS	48 47.4						
		F	15 16 ±						
10	Feb. 4	eP	13 56 00.6						Persia.
		eL	14 01 03.6						
		F	14 33 ±						
11	Feb. 4	P	22 09 11.5					4606	Band Sea.
		S	15 32.3						
		F	33 ±						
12	Feb. 12	eP	11 41 49.8					3280	Indo-China range.
		S	46 52.8						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				A _N	A _E				
			h m s	μ	μ	s	μ	km	
13	Feb. 14	F	12 22 ±						
		P	4 04 23.6					2384	Western off Luzon.
		S	08 19.2						
F	5 53 ±								
14	Feb. 16	e	6 46 21.4						Distant earthquake.
		F	7 23 ±						
15	Feb. 19	eP	10 47 54.8						Distant earthquake.
			48 32.8						
16	Feb. 28	P	14 30 23.0					5884	Bismarck Archipelago.
		S	37 53.2						
		L	41 55.0						
		M _E	47 25.6		+102	21.0			
		M _N	48 58.5	-150		21.0			
F	15 17 ±								
17	Mar. 4	eP	11 29 52.7					5667	Aleutian Islands?
		eL	37 11.2						
		M _E	38 34.5		+ 15	11.0			
		M _N	39 46.5	+ 18		12.0			
		F	12 00 ±						
18	Mar. 5	eP	11 59 13.3					9720	Pegasus Bay, South Island, New Zealand, Damage on North Island.
		eS	12 09 37.3						
		eL	20 25.5						
		M _E	34 12.3		+ 32	19.0			
		M _N	34 13.0	+ 62		20.0			
F	14 41 ±								
19	Mar. 18	eP	13 23 14.5					5205	Towards to New Hebrides Island.
		eS	30 08.0						
		eL	36 43.0						
		F	14 28 ±						
20	Mar. 18	P	4 37 30.7						Kamtchatka.
		F	5 00 ±						
21	Mar. 20	e	2 53 51.9						Bismarck Archipelago.
		eL	53 32.9						
		F	3 16 ±						
22	Mar. 24	eP	12 14 17.3					6270	Solomon Archipelago.
		eS	22 08.3						
		eL	31 13.3						
		M _E	32 28.0		+118	26.0			
		M _N	32 50.3	+ 89		26.0			
F	13 41 ±								

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks	
				A _N	A _E					
23	Apr. 3	P	h m s 22 35 41.4	μ	μ	s	μ	km 1755	NW off Titi-zima.	
		S	38 42.0							
		L	40 56.0							
		F	23 09 ±							
24	Apr. 6	iP	19 12 19.4						NE off the cape of Sioya.	
		L	16 01.6							
		F	42 ±							
25	Apr. 10	eP	10 31 20.1						Felt East Java, Bali, Lombok.	
		eL	53 55.							
		F	11 21 ±							
26	Apr. 15	P	10 36 03.4						SSE off the cape of Nozima.	
		F	59 ±							
27	Apr. 15 16	P	22 21 23.9	+380	+140	22.0 13.2		3230	Mindano.	
		S	26 22.9							
		L	28 06.9							
		M _N	30 07.0							
		M _E	35 44.5							
		F	0 20 ±							
28	Apr. 19	iP	16 16 16.9					1235	Southern off Hatizydzima.	
		S	18 28.4							
		F	42 ±							
29	Apr. 27	P	Lost during changing paper.							SE off Miyako?
		L?	9 25 05. 35 ±							
30	Apr. 30	eP	15 24 19.9					1790	Southern off Titizima.	
		S	27 23.9							
		F	39 ±							
31	May 1	P	7 12 43.4					3891	NW Sumatra.	
		S	18 24.2							
		L	25 04.8							
		F	45 ±							
32	May 3	P	1 35 01.2					1906	NNW off Titizima.	
		S	38 15.8							
		L	40 01.2							
		M _E	41 56.3							
		F	2 23 ±							
33	May 4	P	4 45 41.6					6184	Alaska.	
		S	53 27.8							
		L	5 01 14.8							
		M _E	08 36.1							
		F	51 ±							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	C. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
34	May 13	P L F	9	10	52.3 21.1 ±						Bismarck Archipelago.
35	May 14	P S F	22	22	16.5 52.7 ±					5998	South of Alaska.
36	May 21	P S L F	4	40	05.8 17.4 04.2 ±					2584	Northern off Formosa.
37	May 22	eP eL F	1	40	25.0 34.0 ±						Distant earthquake.
38	June 2	eP F	21	32	09. ±						Hyôganada.
39	June 9	P S L F	13	06	54.9 54.5 32.9 ±					5316	Bismarck Archipelago.
40	June 13	P S L F	1	54	47.1 47.9 58.9 ±					1745	Northern off the island of Sikotan.
41	June 13	P S L F	22	19	45.9 14.7 42.7 ±					5865	Afghanistan.
42	June 18	eP? S F	9	23	11.4 44.6 ±					5944?	Southern Alaska.
43	June 21	P F	18	45	48.0 ±						Vicinity of Naze.
44	June 23	eP eS eL F	5	26	17. 41. 45. ±					2745	Tibet.
45	June 29	P S MN ME	8	32	32.9 21.5 24.0 24.4	+ 25	+ 54	6.0 6.0		4025	Molucca Passage.

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
46	July 12	L	9	46	26.1						
		F	9	14	±						
46	July 12	P	9	54	57.1						Eastern off Kinkazan.
		F	10	16	±						
47	July 18	P	19	50	42.2					6800	New Hebrides.
		S		59	00.9						
		L	20	05	50.6						
		ME		12	16.3		-1220	22.0			
		MN		13	28.4	+790		18.6			
		F	23	10	±						
48	July 19	P	0	17	09.4						Santa Cruz Islands.
		F		07	±						
49	July 19	eP	1	34	50.3					4225	Felt in Ceram and NW New Guinea.
		S		40	50.3						
		L		43	32.3						
		ME		46	47.6		-250	18.5			
		F		55	±						
50	July 19	P	7	47	09.3					7350	New Hebrides.
		S		55	56.1						
		L		59	53.3						
		F	9	08	±						
51	July 21	eP	6	28	29.0					6180	New Hebrides.
		S		36	14.8						
		L		43	25.0						
		ME		44	19.2		-670	28.0			
		MN		50	55.1	-149		16.0			
		F	9	00	±						
52	July 21	eP	11	00	09.9						Panama.
		e		31	44.9						
		F	12	42	±						
53	July 22	eP	18	48	14.3						Off Okinawazima.
		F	19	00	±						
54	July 22	eP	20	06	00.3						Distant earthquake.
		F		34	±						
55	July 28	P	21	46	14.2					5880	Alaska.
		S		53	44.2						
		L	22	01	52.2						
		F		54	±						
56	Aug. 4	P	13	16	21.8					4785	New Guinea.
		S		22	52.4						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			h	m	s	μ	μ	s	μ	km	
57	Aug. 7	F		43	±						New Hebrides.
		P	3	50	31.9						
58	Aug. 11	F	4	42	±					1685	Giran, Formosa.
		P	8	21	37.8						
		S		24	32.4						
		L		25	42.2						
		ME		28	19.1		- 96	10.0			
		F	9	09	±						
59	Aug. 12 13	eP	23	55	23.0					2965	Mindanao.
		eS	0	00	03.4						
		eL		04	49.0						
		ME		09	31.4		-106	17.0			
		MN		09	48.1	± 35		18.0			
		F		57	±						
60	Aug. 18	eP	2	40	47.0					890	Vicinity of Yahata, Gifu Prefecture.
		S		42	23.8						
		L		43	18.2						
		F	3	10	±						
61	Aug. 21	P?	19	41	25.7						West coast of Sumatra.
		eL		49	28.5						
		F	20	12	±						
62	Aug. 23	eP?	22	36	48.4						Eastern off the cape of Sioya.
		L		40	59.7						
		F		56	±						
63	Aug. 31	eP?	5	22	56.0						Baffin Bay.
		L		36	33.0						
		F	6	12	±						
64	Aug. 31	eP	15	12	35.1						Afghanistan.
		L		21	21.5						
		F		59	±						
65	Sep. 1	P	6	57	50.0					940	Western off the cape of Motuta, Hokkaidô.
		S		59	32.0						
		F	7	05	±						
66	Sep. 12	P	14	24	42.9					2040	Iwôzima, Kagosima Prefecture.
		S		28	09.9						
		L		30	41.3						
		F		57	±						
67	Sep. 12	eP	15	38	37.						Ditto.
		F		54	±						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
68	Sep. 12	eP	17	44	43.3						Ditto.
		S		46	50.6						
		F	18	16	±						
69	Sep. 16	eP	13	17	10.7						Ditto.
		S		19	04.7						
		F		40	±						
70	Sep. 25	P	19	23	02.7					5920	New Ireland.
		S		30	34.7						
		F		40	±						
71	Oct. 5	P _H	20	29	04.2						Southern off the cape of Erimo.
		L _E		32	50.0						
		M _E		33	43.9		- 48	18.0			
		F		54	±						
72	Oct. 10	iP _H	15	53	17.2					7860	Fiji Island.
		S _H	16	02	30.4						
		M _N		02	34.7	+200		6.4			
		M _E		02	38.2		+190	6.1			
		iP _{P'} _H		23	43.6						
		F		45	±						
73	Oct. 15	eNE	8	27	09.7						Mongolia ?
		iE		27	40.1						
		M _E		28	22.9		- 56	4.2			
		M _N		28	34.9	+ 62		4.8			
		F		45	±						
74	Oct. 18	P _H	7	58	31.0					6690	Santa Cruz Island.
		S _H	8	06	44.2						
		M _N		06	47.1	- 44		6.0			
		M _E		07	02.3		+ 73	8.0			
		F		53	±						
75	Oct. 21	P _H	17	58	47.7					2640	East of Marianne Islands.
		e _H		59	29.5						
		S _H	18	03	03.9						
		eL _E		08	25.9						
		F		36	±						
76	Oct. 26	P _H	14	51	46.5					4010	Celebes.
		iS _H		57	34.1						
		M _E		57	37.8		+ 77	5.8			
		M _N		57	38.1	+ 66		5.8			
		F	15	10	±						
77	Oct. 26	iP _H	17	13	21.5	- 2.0	+ 1.6			1100	Eastern off Tanegasima, Kagosima Prefecture.
		S _E		15	19.5				S 2.0		
		L _E		16	07.1				E 1.6		

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
90	Dec. 7	e eL? F	^h 10 ^m 48 ^s 34. 49 41. 58 ±	μ	μ	s	μ	km	Northern off Amami-oosima, Kagosima Prefecture.
91	Dec. 12	P eN eS? F	10 09 27.9 09 48.9 10 21.7 14 ±		.				Yellow Sea.
92	Dec. 15	P _N S _N M _N F	2 04 09.0 09 10.6 15 13.0 3 24 ±	+750		20.0		3270	Tibet.
93	Dec. 17	P S F	3 39 30.1 43 59.5 52 ±					2810	Vicinity of Karenkô.
94	Dec. 17	P S F	16 00 54.6 07 37.4 24 ±					5015	Bismarck Archipelago.

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
1	Jan. 3	P S F	^h 9 ^m 47 ^s 42.6 51 49.2 — — —	μ	μ	s	μ	km 2519	Kamchatka.
2	Jan. 8	P S F	23 08 13.4 09 06.4 16 00.					477	Upper valley of the river of Yosino, Tokushima Prefecture.
3	Jan. 12	P S L F	13 41 58.4 44 27.4 45 52.4 14 13 07.					1420	Yunnan, China?
4	Jan. 15	P PP S SS L MN ME C F	8 50 28.6 52 04.0 56 16.8 58 39.5 9 02 49.0 04 06.9 07 13.9 21 53.5 10 41 49.	-384	-187	7.5 10.7		4015	Very destructive in Bihar, India, and Nepal.
5	Jan. 19	eP eS eL F	12 43 36.1 45 51.1 48 28.9 58 ±					1270	North Burma.
6	Jan. 20	P S L C ₁ C ₂ F	22 55 20.4 59 21.9 23 01 53.4 06 04.9 07 35.9 11 08.					2455	Bashi Channel?
7	Jan. 21	eP eS eL F	7 00 50.8 04 34.2 08 12.1 18 06.					2230	Formosa Strait?
8	Jan. 22	P S L F	7 52 40.5 56 46.9 59 11.7 8 20 59.					2516	Ditto.
9	Jan. 28	eL F	20 10 40. 30 42.						Damage at Acapulco, Mexico.
10	Jan. 29	P S F	1 39 57.8 40 38.0 48 10.					298	Western foot of Mt. Aso.

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
11	Feb. 3	eP	h m s 14 41 22.0	μ	μ	s	μ	km 5070	New Britain Islands.
		eS	48 08.0						
		eL	53 22.0						
		F	15 09 ±						
12	Feb. 4	eP	13 48 34.2						Persia.
		eL	14 04 05.2						
		F	16 29.						
13	Feb. 10	eP	22 04 27.3						NE off the cape of Sioya.
		F	07 22.						
14	Feb. 12	eP	11 41 54.0					2463	Indo-China range.
		S	45 56.3						
		F	12 09 ±						
15	Feb. 14	P	4 04 14.					2230	Western off Suzon.
		F	04 48.						
		PP	05 15.						
		S	07 57.						
		L	11 11.						
		C ₁	38 14.						
		C ₂	43 31.						
F	5 10 13.								
16	Feb. 19	L?	10 53 03.1						Distant earthquake.
		F	11 09 55.						
17	Feb. 24	P	6 28 01.5	+29.5	-29.3	5.5 5.8	N 29.5 W 29.3	2040	SSE off T'itizima.
		S	31 28.5						
		L	37 43.5						
		C ₁	44 18.5						
		C ₂	47 59.5						
		F	8 12 38.						
18	Feb. 28	eP	14 30 30.3					1530	Bismarck Archipelago.
		eS	33 10.3						
		L	37 30.3						
		F	15 15 ±						
19	Mar. 4	eL	11 33 57.9						Aleutian Islands?
		F	46 32.						
20	Mar. 5	eP	11 59 00.6					9438	Pegasus Bay, South Island, New Zealand. Damage on North Island.
		eS	09 33.0						
		L	12 26 30.6						
		F	13 28 ±						
21	Mar. 13	eP	13 20 43.8						Towards to New Hebrides Island.
		L	35 38.6						
		F	14 07 20.						

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
22	Mar. 18	iP	^h 4	^m 38	^s 32.2	+23	+15	s		km 940	Kamchatka.
		S		40	14.2						
		F		58	48.						
23	Mar. 20	eL	2	53	18.7						Bismarck Archipelago.
		F	3	06	59.						
24	Mar. 24	P	12	14	01.8				5510		Solomon Archipelago.
		S		21	11.8						
		eL		25	28.0						
		F		22	40.						
25	Apr. 3	P	22	35	13.4				1630		NW off Titizima.
		S		38	02.2						
		L		39	01.4						
		F		57	11.						
26	Apr. 6	P	19	12	06.0				1200		NE off the cape of Sioya.
		i		12	30.2						
		S		14	14.0						
		L		17	33.2						
		T		26	52.						
27	Apr. 10	eP	10	31	10.8						Felt East Java, Bali, Lombok.
		F	11	16	07.						
28	Apr. 12	eP	9	25	38.9						Distant earthquake.
		F		30	11.						
29	Apr. 13	P	22	06	18.4				1200		NE off Isigakizima.
		eS		08	26.4						
		F		19	14.						
30	Apr. 15	eP	10	35	41.8						SSE off the cape of Nozina.
		F		51	11.						
31	Apr. 15	P	22	21	10.6				3140		Mindanao.
		i		22	11.2						
		S		26	03.6						
		L		32	55.6						
		F		45	11.						
32	Apr. 16	P	13	44	04.2						SE off Garanbi, Formosa.
		F		58	11.						
33	Apr. 19	P	16	15	55.5				1070		Southern off Hatizyôzima.
		S		17	50.5						
		F		34	25.						
34	Apr. 30	eP	15	23	42.5				1800		Southern off Titizima.
		S		26	47.5						

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
		F	^h 40 ^m 14. ^s	μ	μ	s	μ	km	
35	May 1	P S F	7 12 42.6 14 24.6 clock stopped					940	NW.-Sumatra,
36	May 2	eL F	5 46 46.9 55 00.						Uncertain.
37	May 3	P eS L F	1 34 40.1 37 24.5 39 40.5 2 01 00.					1576	NNW off Titizima.
38	May 4	P S L F	4 45 47.8 53 36.8 5 06 39.8 42 30.					6245	Alaska.
39	May 21	P S L F	4 39 47.4 43 25.4 45 09.4 58 02.					2170	Northern off Formosa,
40	May 30	P eS F	23 06 19.3 08 22.8 14 55.0					1155	Vicinity of the City of Mito.
41	June 2	P S F	21 30 25.0 31 40.4 38 21.					684	Hyûganada.
42	June 9	P F	13 06 53.2 35 26.						Bismarck Archipelago.
43	June 13	P S L C F	1 54 46.8 57 53.2 2 01 31.2 06 39.0 24 ±					1814	Northern off the island of Sikotan.
44	June 13	P S L F	22 19 57.3 27 37.8 41 51.3 23 11 07.					6080	Afghanistan.
45	June 15	eS F	21 36 28.2 42 18.						Western off Amami-oosima.
46	June 19	iP iS	15 49 26.1 51 18.0					1039	Southern off Hatisyôzima.

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
			^h ^m ^s	^μ	^μ	^s	^μ	km	
47	June 23	F	56 09.						Tibet.
		eL F	5 32 35.5 53 03.						
48	June 29	P	8 32 19.5					3491	Molucca Pasage.
		S	37 35.9						
		F	57 51.						
49	July 5	eP?	12 06 54.4					282	Epicentre uncertain.
		S	07 32.4						
		L	12 08 27.7						
		ME	08 52.7						
		MN	09 01.0						
		C	13 19.4	+275	+198	2.0			
		F	26 ±			2.3			
50	July 18	eP	1 57 37.2					6420	South of Chiriqui, Panama.
		eL	2 41 30.2						
		F	4 09 08.						
51	July 18	eP	19 50 27.8					3840	Felt in Ceram and NW New Guinea.
		PP	51 17.5						
		S	58 26.8						
		L	20 05 22.8						
		MN	21 57.6	+ 59		9.0			
		ME	22 10.3		+ 90	9.2			
		F	21 47 ±						
52	July 19	P	1 34 41.5					6076	New Hebrides.
		PP	36 02.5						
		S	40 19.5						
		L	2 07 12.5						
		F	32 ±						
53	July 19	eP	7 46 33.0					5900	Alaska.
		eS	55 22.0						
		eL	8 02 14.0						
		F	55 01.						
54	July 20	eL	19 17 34.7					6076	New Hebrides.
		F	23 54.						
55	July 22	P	6 28 32.7					5900	Alaska.
		S	36 13.0						
		L	43 10.1						
		F	8 08 30.						
56	July 28	eP	21 46 18.1					5900	Alaska.
		eS	53 49.1						
		eL	22 04 12.1						

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
		F	h	m	s	μ	μ	μ	μ	km	
			47	±							
57	Aug. 7	eL	4	05	36.0						New Hebrides.
		F		29	36.0						
58	Aug. 11	P	8	21	25.5					2425	Giran, Formosa.
		S		25	24.5						
		C ₁		34	44.5						
		C ₂		36	25.5						
		F		53	21.						
58	Aug. 12	P	23	55	08.6					1858	Mindanao.
		S		58	19.4						
	13	L	0	02	24.4						
		F		48	±						
60	Aug. 18	P	2	40	19.0					920	Vicinity of Yahata, Gifu Prefecture.
		S		41	59.0						
		T	3	03	±						
61	Aug. 31	eP	18	21	15.5						Epicentre uncertain.
		F		42	14.						
62	Sept. 12	eP	14	27	05.8					1430	Iwêzima, Kagosima Prefecture.
		S		29	35.8						
		F		43	25.						
63	Sept. 12	eP	17	44	23.8					690	Ditto.
		S		45	39.8						
		F		58	38.						
64	Sept. 13	eP	14	20	51.1						Ditto.
		F		25	52.						
65	Sept. 16	P	13	16	55.7					760	Ditto.
		S		18	18.7						
		F		32	56.						
66	Oct. 10	P	15	53	05.4					7700	Fiji Island.
		PR ₁		56	06.4						
		S	16	02	10.4						
		F		18	54.						
67	Oct. 15	P?	8	28	29.6						Mongolia?
		S?		29	41.5						
		F		37	06.						
68	Oct. 21	P	17	59	08.5					1910	East of Marianne Islands.
		S	18	02	23.2						
		F		14	13.						

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks		
						AN	AE						
69	Oct. 26	P	h	m	s	μ	μ	s	μ	km	Eastern off Tanegasima, Kagosima Prefecture.		
		S	17	12	55.1							14	53.7
		F			40							54.	
70	Oct. 28	eP	23	39	19.3					2045	SE off Karenkô, Formosa.		
		eS			42							46.6	
		F			55							36.	
71	Nov. 11	eP	21	24	18.9						Soô-gun, Formosa.		
		F			29							19.	
72	Nov 12	eP	23	34	44.3						Mongolia.		
		F			43							±	
73	Nov. 26	P	12	14	17.9					2540	SW of Manila.		
		S			18							25.7	
		F			28							00.	
74	Nov. 27	P	6	20	53.0					3565	Molucca Island.		
		S			26							14.1	
		i			31							13.5	
		F			39							51.	
75	Nov. 30	S?	2	30	07.5						Mexico.		
		F			3							37 ±	
76	Dec. 7	eP	10	47	24.5						Northern off Amami-ôosima, Kagosima Prefecture.		
		F			52							36.	
77	Dec. 15	eP	2	04	17.5					3515	Tibet.		
		S			09							36.5	
		F			3							09 45.	
78	Dec. 18	P	5	30	57.2					3140	Distant earthquake?		
		S			35							50.2	
		F			42							15.	
79	Dec. 18	P	6	32	26.7					2170	Distant earthquake?		
		S			36							04.7	
		F			6							41 15.	
80	Dec. 18	eI?	11	39	32.9						Tibet.		
		F			49							±	
81	Dec. 25	e	6	31	07.7						Marianne Islands.		
		e			36							44.7	
		F			52							00.	

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			^b	^m	^s	μ	μ	S	μ	km	
1	Apr. 13	e e	22	05	46.						NE off Isigakizima.
				19	12.						
2	Apr. 15	P S F	10	35	32.0					1339	SSE off the cape of Nozima.
				37	53.9						
				54	13.						
3	Apr. 15	iP S F	22	21	01.6		+ 3.8	3.8	E 3.8	2742	Mindanao.
				25	25.4						
	16		0	04	13.						
4	Apr. 19	iP S F	16	15	47.8	+5.0	-8.8	2.8 2.8	N 5.0	1019	Southern off Hatizyōzima.
				17	37.7	+ 13	+ 13	4.4 4.4	W 8.8		
				47	19.						
5	Apr. 28	P S F	2	01	55.6				S ward	186	Vicinity of Hukuoka City.
				02	20.6						
				05	50.						
6	Apr. 30	eP eS F	15	23	31.9					1713	Southern off Titizima.
				26	29.2						
				37	00.						
7	May 1	P S F	7	12	42.5					967	NW-Sumatra.
				14	27.2						
				46	43.						
8	May 3	P? L F	1	34	38.6						NNW off Titizima.
			1	39	03.3						
			2	16	30.						
9	May 4	P S L F	4	45	51.5	± 2.5	± 2.7	4.9 3.0		6346	Alaska.
				53	46.3	± 3.8	± 21.9	9.8 8.8			
			5	02	12.2						
				53	23.						
10	May 13	eP ePP eS SS F	9	10	12.5					5259	Bismarck Archipelago.
				12	09.9						
				17	08.7						
				20	19.3						
				45	20.						
11	May 21	eP eS F	4	38	19.6					4665	Northern off Formosa.
				44	43.6						
			5	07	±						
12	May 26	P S F	8	35	21.2					30	Near Husan.
				35	25.3						
				35	39.						
13	May 27	e	5	51	36.8						Local shock.

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
		e	h	m	s	μ	μ	s	μ	km	
			6	24	07.						
14	May 30	iP S F	23	06	14.7 08 11.5 19 21.				Eward	1088	Vicinity of the city of Mito.
15	June 2	iP iS F	21	30	17.4 31 13.5 41 00.				S ward	417	Hyūganada.
16	June 9	P PP S L F	13	06	35.0 08 10.0 13 12.4 16 34.9 41 00.	+ 3.4 ± 3.7 ± 5.5	± 12.5	4.6 4.9 5.6 6.0	N 3.4 W ward	4913	Bismarck Archipelago.
17	June 13	P S F	1	54	50.2 58 04.9 2 36 00.	+ 4.1	- 1.0 + 15.0	3.9 3.9 4.4	S ward W 1.0	1907	Northern off the island of Sikotan.
18	June 13	P S F	22	20	06.0 27 48.2 23 19 00.	± 68	+ 3.1	5.1 10.1	S ward E 3.1	6108	Afghanistan.
19	June 15	P S F	21	34	43.5 36 25.3 49 50.					938	Western off Amami-oosima. Vicinity of Naze.
20	June 21	e F	18	44	40.8 55 46.						
21	June 23	eP eS F	5	29	31.6 32 34.1 07 43.					1775	Tibet.
22	June 24	iP S F	6	20	08.3 24 27.5 7 03 41.					2682	North Chile.
23	June 24	P S F	20	35	29.1 36 16.1 54 54.					349	Epicentre uncertain.
24	June 29	iP i iS F	8	32	16.6 34 08.3 37 50.6 9 16 31.				S ward W ward	3781	Molucca Passage.
25	July 6	eP eS eL	23	01	00.4 09 50.2 19 44.6					7402	Off the coast of southern Oregon.

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
			h m s	μ	μ	s	μ	km	
	7	F	0 41 23.						
26	July 12	iP S F	9 54 45.2 58 46.7 10 10 14.					2455	Eastern off Kinkazan,
27	July 18	P eS L F	1 57 56.5 2 05 07.0 15 22.1 4 21 29.					5518	South of Chiriqui, Panama.
28	July 18	P S L M _{1E} M _N M _{2E} F	19 50 30.9 58 28.3 20 07 07.9 10 27.6 10 32.8 11 51.5 23 00 00.	±913	±888 ±1025	48.1 50.1 42.7		6388	New Hebrides.
29	July 19	P S F	1 34 30.1 42 36.5 2 33 00.					6558	Felt in Ceram and NW New Guinea.
30	July 19	P S F	7 46 46.7 55 10.1 8 54 03.					6888	New Hebrides.
31	July 20	e e	19 06 39.5 36 10.						Distant earthquake.
32	July 21	eP eS eL M _{NK} F	6 27 50.1 36 21.7 40 19.7 43 19.7 9 10 13.	-500	-825	30.5 23.7		7042	New Hebrides.
33	July 28	P S F	21 46 19.5 53 53.3 23 00 51.					5956	Alaska.
34	July 29	eP eS F	13 59 12.2 14 01 05.8					1056	Vicinity of Wakayama?
			Overlapped by next quake.						
35	July 29	eP? eS F	14 51 19.1 56 03.7 15 09 55.					3024	Off Kinkazan?
36	July 31	P eS F	6 03 26.6 07 23.8 21 03.					2402	Luzon.

6. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
50	Aug.31	P	h	m	s	μ	μ	s	μ	135	Suōnada,
		S	23	06	07.7						
		M		06	25.9						
		F		06	41.7		+ 31	0.7			
51	Sept. 1	eP	2	46	01.9					387	Hyōganada,
		S		46	54.1						
		F		50	49.						
52	Sept.12	eP	14	22	43.8					575	Iwōzima, Kagosima Prefecture,
		S		23	47.3						
		M _N		27	13.3	83		18.8			
		F	Overlapped by next quake.								
53	Sept.12	P	14	28	22.0					545	Ditto.
		S		29	22.5						
		M _N		30	11.8	+600		19.4			
		F		15	00	37.					
54	Sept.12	P	15	37	14.3					590	Ditto.
		S		38	19.0						
		M _N		39	01.1	+ 67		17.4			
		F		51	38.						
55	Sept.12	eP	17	43	59.8					618	Ditto.
		S		45	07.6						
		M _N		45	59.2	+200		20.7			
		F		18	09	38.					
56	Sept.12	e	21	27	22.2					Ditto.	
		e		33	38.2						
57	Sept.12	eP	22	39	30.7					616	Ditto.
		eS		40	38.3						
		F		52	38.						
58	Sept.12	e	23	12	47.4					Ditto.	
		e		17	38.4						
59	Sept.13	e	23	22	58.4					Ditto.	
		e		27	42.7						
60	Sept.13	e	1	52	25.0					Ditto.	
		e		57	39.0						
61	Sept.14	P	3	06	23.0					595	Ditto.
		S		07	28.5						
		F		16	43.						
62	Sept.14	e	9	26	02.0					Ditto.	
		e		28	46.0						

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
63	Sept.14	e	h	m	s	μ	μ	s	μ	km	Ditto.	
		e	15	11	01.0							20
64	Sept.15	e	5	54	26.3						Ditto.	
		e	59	46.3								
65	Sept.15	e	17	31	49.5						Ditto.	
		e	36	49.5								
66	Sept.16	eP	13	16	32.0	+271		16.5		602	Ditto.	
		eS	17	38.2								
		M _N	18	32.5								
		F	38	54.								
67	Sept.16	e	15	11	54.2						Ditto.	
		e	17	54.2								
68	Sept.17	eP	13	41	24.2					555	Ditto.	
		eS	42	25.7								
		F	48	56.								
69	Sept.18	e	13	28	43.4						Ditto.	
		e	35	58.4								
70	Sept.25	eI?	19	22	40.6					5259	New Ireland.	
		eS	29	36.2								
		F	43	23.								
71	Oct. 5	eI?	20	29	08.5					682	Southern off the cape of Erimo.	
		eS?	30	23.7								
		F	54	28.								
72	Oct. 10	eP	15	52	59.4					7692	Fiji Island.	
		PP	55	54.4								
		S	16	02	04.0							
		L	13	18.8								
73	Oct. 15	F	32	38.							Mongolia?	
		P	8	28								51.1
		S	29	21.2								
74	Oct. 21	F	41	57.						834	East of Marianne Island.	
		eP	17	58								21.6
		eS	59	52.0								
75	Oct. 26	F	18	35	52.					602	Celebes.	
		P	14	51	29.1							
		eS	52	35.3								
76	Oct. 26	F	15	09	48.						Eastern off Tanegasima.	
		iP	17	12	41.9							
					-13.8	+ 6.3		S 13.8		540		

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
		S	h	m	s	μ	μ	s	E	μ	km	
		MN	13	41.9					6.3			
		ME	15	44.7	±1000			29.8				
		F	15	50.2		±379		18.0				
77	Oct. 26	P	18	00	48.						766	Eastern off Tanegasima.
		eS	20	52	10.8							
		F	53	34.4								
		F	21	08	47.							
78	Oct. 28	P	23	39	12.1						1369	SE off Karenkô, Formosa.
		eS	41	36.7								
		F	0	03	45.							
79	Oct. 29	e	16	33	45.0							Region of Caspian Sea.
		e	17	15	45.0							
80	Nov. 5	P	23	10	20.8		+ 3.3		E	3.3	4626	Bering Sea.
		S	16	42.6	± 6.7	+20.0	7.8 14.1					
		eL	23	00.8								
		F	57	33.								
81	Nov. 11	eP?	21	20	40.5						2283	Soô-gun, Formosa.
		eS	24	27.8								
		eL	26	23.1								
		F	37	23.								
82	Nov. 12	e	7	57	07.6							Eastern Turkey.
		e	14	22.4								
83	Nov. 16	P	13	56	46.8						2369	Banda Sea.
		S	14	00	41.4							
		F	29	17.								
84	Nov. 26	iP	12	14	08.8	+10.0	+ 4.4		N	10.0	2521	SW of Manila.
		iS	18	15.5	±10.0	± 5.0	10.0 6.5		E	4.4		
		F	38	53.								
85	Nov. 27	iP	6	20	46.6		- 3.5		W	3.5	3429	Molucca Island.
		S	25	59.2		± 6.0	6.3					
		L	30	02.5								
		F	52	52.								
86	Nov. 30	eP	2	33	03.4						3715	Mexico.
		eS	38	33.9								
		F	3	52	44.							
87	Dec. 10	P	10	06	59.9						6934	Celebes Sea.
		PP	09	55.1								
		S	15	20.6								
		F	11	06	10.							

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
88	Dec. 15	iP	^h 2 ^m 04 ^s 21.1	± 25	± 2	15.0	E ^{μ} ward	3370	Tibet.
		PP	05 23.7						
		S	09 30.1						
		ME	16 23.8						
		MN	16 32.0						
		F	3 29 34.						
89	Dec. 15	P	19 02 15.4					381	Local shock?
		S	03 06.8						
		F	12 58.						
90	Dec. 15	eP	19 24 30.5					376	Fiji Islands.
		S	25 21.2						
		e	34 25.8						
		F	41 58.						
91	Dec. 15	eP	20 17 17.4					355	Uncertain.
		S	18 05.2						
		F	32 58.						
92	Dec. 17	S?	3 39 08.8						Vicinity of Karenkø.
		L	43 15.9						
		F	4 03 54.						
93	Dec. 17	P	16 00 19.9					4569	Bismarck Archipelago.
		PP	02 06.6						
		S	06 38.5						
		L	12 48.6						
		F	53 52.						
94	Dec. 18	eP	11 37 13.6					710	Tibet.
		S	38 31.6						
		L	40 20.4						
		F	53 49.						
95	Dec. 21	eP	12 52 56.6					777	Tibet.
		eS	54 21.3						
		F	13 14 39.						
96	Dec. 24	eS	18 15 31.3						Distant earthquake?
		F	29 26.						
97	Dec. 25	eP?	6 36 33.9						Marianne Islands.
		L	40 41.2						
		F	56 24.						
98	Dec. 25	eP	12 54 54.7					447	Marianne Islands.
		S	55 55.0						
		F	13 01 23.						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
1	Jan. 3	iP	h m s 9 47 36.9	μ	μ	s	μ	890	Kamchatka.
		eH	49 10.5						
		SH	51 39.6						
		MH	53 27.9						
		iH	58 02.1						
F	10 10 55.								
2	Jan. 8	eP	23 09 04.8					890	Upper valley of the river of Yosino, Tokusima Prefecture.
		eSE	10 42.0						
		ME	12 03.0						
		F	17 09.						
3	Jan. 12	eP	13 41 43.9					3600	Yunnan, China?
		LH	45 32.2						
		ME	47 09.4						
		F	14 02 02.						
4	Jan. 15	iP	8 50 23.1					3600	Very destructive in Bihar, India, and Nepal.
		iS	55 46.8						
		LN	58 21.6						
		M ₁ E	9 04 12.4						
		M _N	05 26.7						
		M ₂ E	06 08.1						
		C	13 57.6						
F	10 25 42.								
5	Jan. 20	P	17 59 24.1					1250	Middle valley of the River Hoangho, Mongolia.
		LH	18 03 16.9						
		MH	03 43.6						
		F	25 44.						
6	Jan. 20	eP	22 55 42.4					960	Bashi channel?
		eS?	57 55.3						
		LE	59 56.8						
		ME	23 01 43.8						
		F	21 03.						
7	Jan. 21	ePE	7 01 51.4					935	Formosa Strait.
		SE	03 35.8						
		ME	04 21.7						
		F	23 30.						
8	Jan. 22	P'E	7 55 59.7					680	Ditto.
		SH	57 41.2						
		M	59 12.1						
		F	8 16 23.						
9	Jan. 29	eL'E	1 41 23.0					680	Western foot of Mt. Aso.
		SH	42 37.1						
		F	49 43.						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
10	Feb. 12	e	^h 11 ^m 46 ^s 09.2	μ	μ	S	μ	km	Indo-China range.
		SE	47 51.2						
		F	12 03 24.						
11	Feb. 14	iP	4 04 38.6					2490	Western off Luzon.
		iS	08 43.1						
		ME	15 23.1		+ 40	12.			
		MN	16 40.1	- 64		10.			
		F	17 13.						
12	Feb. 24	iP	6 28 47.1					2510	SSE off Titizima.
		iS	32 53.1						
		LE	36 17.1						
		MN	37 31.5	+ 50		15.			
		ME	41 17.7		+ 46	15.			
		F	42 53.1						
13	Feb. 28	eP'N	14 30 29.4					6720?	Bismarck Archipelago.
		eS?	38 44.4						
		eL?	47 02.4						
		ME	50 41.4						
		F	15 17 35.						
14	Mar. 5	eP?	12 24 03.5						Pegasus Bay, South Island, New Zealand.
		F	13 22 01.						
15	Mar. 18	iP	4 38 30.5						Kamchatka.
		F	54 18.5						
16	Mar. 24	P	12 14 31.7					6590	Solomon Archipelago.
		S	22 39.7						
		LE	32 00.7						
		F	13 09 48.						
17	Apr. 6	P	19 12 31.8						NE off the cape of Siويا.
		F	31 13.						
18	Apr. 15	P	22 21 42.9					3220	Mindanao.
		SE	26 41.4						
		L	31 02.4						
		F	23 22 52.						
19	Apr. 19	iP	16 16 34.2					1600	Southern off Hatizyôzima.
		iS	19 20.4						
		F	25 32.						
20	May 4	P	4 45 37.9					6105	Alaska.
		S	53 19.9						
		L	5 05 19.9						
		M	11 19.9						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				A _N	A _E				
			h m s	μ	μ	s	μ	km	
21	May 21	F eP _E ? F	4 43 30.0 54 30.						Northern off Formosa.
22	June 2	eP S F	21 32 57.2 33 40.2 39 16.					319	Ilyûganada.
23	June 9	eP eS F	13 07 19.5 14 09.5 27 30.					5145	Bismarck Archipelago.
24	June 13	eP S F	1 54 52.5 58 02.4 26 29.					1850	Northern off the island of Sikotan.
25	June 13	iP i S F	22 19 45.0 23 45.0 26 53.0 55 47.					5470	Afghanistan.
26	June 23	eP _E ? F	5 30 08.5 53 46.						Tibet.
27	June 29	P e S M _E F	8 32 44.4 35 54.9 38 41.4 40 56.4 9 09 08.					4175	Molucca Passage.
28	July 18	P S F	1 47 56.2 57 29.8 4 04 03.					8272	South of Chiriqui, Panama.
29	July 18	P S L M _N M _{1E} M _{2E} F	19 50 54.9 59 31.8 20 08 51.8 12 25.8 15 41.3 19 33.8 21 19 34.	+500	-500 -480	18.0 22.5 18.0		7148	New Hebrides.
30	July 19	P S F	1 35 13.1 41 08.3 2 30 34.					4135	Felt in Ceram and NW New Guinea.
31	July 19	eP S F	7 47 36.7 56 14.5 8 56 34.					7166	New Hebrides.

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
32	July 21	P	h m s 6 28 38.0	+ 30	- 12	s	μ	km 6220	New Hebrides.
		S	36 26.0						
		L	41 34.1						
		ME	49 49.4						
		MN	50 17.0						
		F	8 24 04.						
33	July 28	P	21 46 12.4					5722	Alaska.
		S	53 34.0						
		I.	22 02 31.9						
		ME	11 01.9						
		F	23 35 34.						
34	Aug. 9	P	22 41 40.8					161	Upper reaches of the Daidô River.
		S	42 02.4						
		F	44 53.						
35	Aug.11	P	8 22 04.4						Giran, Formosa.
		L	26 15.8						
		ME	27 00.8						
		F	50 ±						
36	Aug.12	eP	23 55 35.7					2290	Mindanao.
		eS	59 23.7						
	13	L	0 03 05.7						
		F	29 45.						
37	Aug.18	P	2 41 03.5					1200	Vicinity of Yahata, Gihu Prefecture.
		S	43 12.2						
		L	44 39.8						
		ME?	45 45.5						
		F	55 55.						
38	Aug.31	eL	15 21 37.5						Afghanistan.
		F	44 ±						
39	Sept.12	P	14 28 46.3						Iwôzima, Kagosima Prefecture.
		S	31 43.3						
		F	51 ±						
40	Sept.12	eP	17 47 28.2						Ditto.
		F	58 50.						
41	Sept.16	e	13 18 12.4						Ditto.
		S	20 06.4						
		F	42 30.						
42	Oct. 5	P	20 29 11.4						Southern off the cape of Erimo.
		F	47 ±						
43	Oct. 10	P	15 53 23.3					8140	Fiji Island.

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1934.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
44	Oct. 15	PP?	^h 57 ^s 56.3	μ	μ	s	μ	620	Mongolia?
		S	16 02 50.3						
		F	47 ±						
45	Oct. 26	eP?	8 25 41.6					1150	Eastern off Tanegasima, Kagosima Prefecture,
		S	26 49.6						
		F	40 21.						
46	Oct. 28	P	17 13 49.4					2970	SE off Karenkô, Formosa.
		SN	15 52.4						
		L	17 04.4						
		ME	17 23.9						
47	Nov. 12	F	49 ±					2918	Molucca Island.
		P	23 39 35.8						
		S	44 16.8						
48	Nov. 27	F	56 30.					3277	Tibet.
		eP	23 33 29.2						
		F	38 44.						
49	Dec. 15	P	6 21 20.3					±176	+ 52
		eS	27 02.8						
		F	46 33.						
49	Dec. 15	PE	2 03 55.5					- 86	17.1
		SE	08 58.2						
		LN	13 19.2						
		M ₁ N	15 24.3						
		ME	16 19.5						
		M ₂ N	16 38.5						
		C	22 52.5						
F	3 01 40.								

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The Seismological Bulletin
of
Weather Bureau of Tyôsen
For the Year
1935

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Compiled
By
Weather Bureau of Tyôsen,
The Government General of Tyôsen,
Zinsen, Tyôsen, Nippon.
1937

Preface.

The present volume is the third one of the new series of the Seismological Bulletin of Weather Bureau of Tyôsen, the Government General of Tyôsen, which was put in circulation once a year quite independent of the Annual Report of the Meteorology of this bureau since the year 1933. Now-a-days, in Tyôsen, slight attention is given to the study of earthquake owing to a minority of local shocks. Nevertheless, about 300 years ago, at an active period, frequent strong shocks were experienced all over the peninsula and inflicted severe damage to the buildings and human beings. Therefore, the seismological observation must not be neglected even in the present time of less activity.

Accordingly, in this report, whole the local shocks occurred in the peninsula and its neighbouring seas are described with minute description of their seismometrical elements observed at this bureau and the other local observatories. Moreover, near and distant earthquakes which are observed at the above mentioned observatories, are also compiled in this report with the full description of the nature of them referring the seismological reports published by the Central Meteorological Observatory, Tôkyô, and the other foreign observatories.

All the results of seismological observation made at the local observatories in Tyôsen which are in charge of this bureau are described at the end portion of this report. The present report is compiled by K. Hayata, the seismological expert of this bureau with assistance of Mr. S. Sinohara.

S. I. Kunitomi,

Director,

Weather Bureau of Tyôsen, Nippon.

June 1, 1937.

1. Introduction.

The present publication contains the results of the seismometrical observations made at Weather Bureau of Tyôsen, Zinsen, and the local meteorological observatories in Tyôsen in the year 1935.

Symbols and Notations:—

- P Normal first phase (longitudinal waves).
- P' First preliminary tremors which have penetrated the earth's core.
- PR_n Longitudinal waves n-times reflected at the earth's surface.
- S Normal second phase (transverse waves).
- SR_n Transverse waves n-times reflected at the earth's surface.
- PS Waves changed from longitudinal to transverse oscillation on reflecting at the earth's surface.
- L Long waves at the beginning of the surface waves.
- M Largest motion in the surface phase.
- C Tail or end portion.
- PcP Longitudinal waves reflected at the earth's core.
- ScS Transverse waves reflected at the earth's core.
- F End of the discernible movement.
- i Sudden or distinct commencement of a phase.
- e Gradual or indistinct commencement of a phase.
- A_N N-S component of amplitude.
- A_E E-W component of amplitude.
- A_Z Vertical component of amplitude.
- + Displacement to the north, east and upwards.
- Displacement to the south, west and downwards.
- d* Epicentral distance.
- (r) Remarkable earthquake; Major radius of the felt area is greater than 300km.
- (m) Moderate earthquake; Major radius of the felt area is less than 300km. and greater than 200km.

Time:— Time is referred to Greenwich Mean Time.

2. Seismological stations in Tyôsen.

(1) Weather Bureau of Tyôsen, Zinsen.

Longitude λ ; 126° 38'E Latitude φ ; 37° 29'N

Height above mean sea level; 69.7m.

Geological nature of the ground; Grey Granite-gneiss.

Instruments and constants (approximate):—

Mkg; Mass of the pendulum. V; Magnification.

Tsec; Proper period of the pendulum. $\frac{r}{T^2}$ mm/sec²; Coefficient of friction.

ϵ ; Damping coefficient.

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	97	5.2	0.012	3.6
	E-W		107	5.2	0.014	3.5
	Z	80	73	5.1	0.018	3.0
Omori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
	Z	1.5	2	4.0	0.03	2
Seismograph of low magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2
Omori's Tronometer	N-S	50	150	15.	0.05	
	E-W	50	150	15.	0.05	

(2) Keizyô Meteorological Observatory.

Longitude λ ; 126° 58'E Latitude ϕ ; 37° 34'N

Height above mean sea level; 85.5m.

Geological nature of the ground; Granite.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	95	4.8	0.003	6.0
	E-W		95	4.8	0.002	5.5
Omori's Portable Seismograph	N-S	12	50	3.5	0.03	
	E-W	12	50	3.5	0.03	

(3) Taikyû Meteorological Observatory.

Longitude λ ; 128° 36'E Latitude ϕ ; 35° 52'N

Height above mean sea level; 50.5m.

Geological nature of the ground; Shale.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	60	4.3	0.005	3.0
	E-W		71	4.3	0.006	3.6
Omori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of Low Magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2

(4) Husan Meteorological Observatory.

Longitude λ ; 129° 02'E Latitude φ ; 35° 06'N

Height above mean sea level; 70.5m.

Geological nature of the ground; Porphyrite.

Instruments and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ϵ
Wiechert's Seismograph	N-S	200	91	5.8	0.04	6.7
	E-W		87	5.3	0.03	4.8

(5) Heizyô Meteorological Observatory.

Longitude λ ; 125° 45'E Latitude φ ; 39° 02'N

Height above mean sea level; 51.0m.

Geological nature of the ground; Diorite.

Instrument and constants (approximate):-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ϵ
C. M. O. Portable Seismograph	N-S	17.7	50	6.0	0.015	
	E-W	17.9	50	6.0	0.015	
Seismograph of Low Magnification	N-S	2.0	2	6.0	0.02	2
	E-W	2.0	2	6.0	0.02	2
	Z	0.2	2	2.0	0.03	2

3. The Earthquakes occurred in Tyôsen in the Year 1935.

The number of the earthquakes occurred in Tyôsen and its neighbouring sea in the year 1935 amounted to 14, and 10 of them were felt by person in the epicentral region. The number of unfelt earthquakes amounted to 4. These earthquakes are tablated in the next tables.

The felt earthquakes which occurred in

Tyôsen in the year 1935.

No.	Date	G. M. T.		Intensity	Epicentre
		h	m		
1	Jan. 25	14	48	I; (Kan.-nan.)-Rizimnen.	Upper reaches of the Kyosenkô,
2	" 29	12	42	I; (Zen.-hoku.)-Mizuhoi.	Mouth of the Kinkô.
3	Feb. 1	10	31	I; "	"
4	" 3	9	50	I; "	"
5	" 4	6	30	I; "	"
6	June 3	0	43	I; (Kei.-hoku.)-Eisyû, Naizyô.	Upper reaches of the Raktôkô.
7	July 16	14	40	I; (Kei.-nan.)-Masan, Husan.	Western part of Yamaguti Prefecture.
8	" 23	14	45	II; (Tyu.-hoku.)-Keizauri.	Upper reaches of the Kinkô.
9	Nov. 11	13	50	II; (Kei.-hoku.)-Naizyô.	Upper reaches of the Raktôkô
10	Dec. 7	11	11	I; Taikyû, Syûhûrei, Keizyô, (Kei.-hoku.)-Tassei. II; (Kei.-nan.)-Katô. III; (Kei.-hoku.)-Eisyû, Eitoku, Hokô, Seisyô, Antô, (Kôgen.)-Urutin, Tikuhen, (Tyû.-hoku.)-Hôon.	NW part of Keisyô-hokudô. $\lambda = 123^{\circ}27'E, \varphi = 36^{\circ}18'N$.

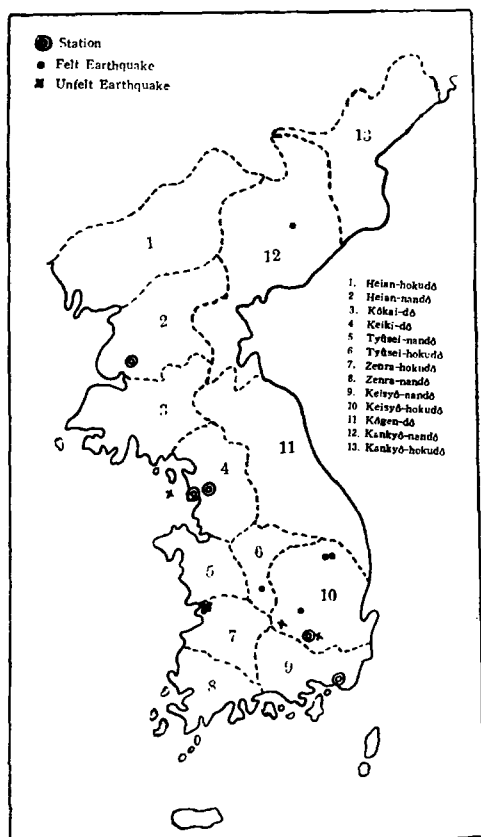
Remarks; No. 6—10 recorded instrumentally at stations,

Felt earthquakes were all accompanied by earth-sound,

Intensity I; slight, II; moderate, III; rather strong.

The unfelt earthquakes which occurred in
Tyôsen in the year 1935.

No.	Date	G. M. T.	Epicentre	No.	Date	G. M. T.	Epicentre
1	Mar. 2	8 09	Vicinity of Taikyû.	3	Nov. 3	3 03	Off Zinsen.
2	Mar. 28	22 49	SE off Vladivostock $\lambda=133^{\circ}.0E, \varphi=42^{\circ}.4N$	4	Dec. 7	11 13	Western part of Kaisyô-hokudô.



The map of distribution of the epicentres of earthquakes occurred in Tyôsen in the Year 1935.

4. Summary of the Earthquakes recorded in Tyôsen in the Year 1935.

Summary of the reading of observations made at each station in Tyôsen in the year 1935 are given in the following tables for each earthquake, and the reading made at several stations in Nippon and foreign countries corresponding to each earthquake are added to, which are abstracted from "Kisyô Yôran" (Monthly Report of Geophysics of Central Meteorological Observatory, Tôkyô) and Bulletins of foreign stations at hand.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
5	Jan. 18	Bozeman	e 17 01.6										
		Tucson	eL 07.6										
		Ukiah	e 09.3										
		La Paz	L 14 05	+ 5	- 7								
		Heizyô	P 17 17 17.2									Off Isigakizima.	
		Zinsen	eP? 17 21.5							3 30.4?	2120?		
		Taihoku	P 17 14 44.0							49.6	369		
		Zi-ka-wei	e 15 48								1040		
		Nanking	iP 16 13							1 55	1180		
		Chiufeng	iP 17 54	14	13	23				2 16	1990		
Tiflis	eP 24 41							9 27	8140				
Tucson	S 25 44												
Uccle	eL 53 —												
6	Jan. 22	Husan	P 0 34 12.7							44.3	329	Southern part of Amakusanada.	
		Taikyû	P 35 25.1										
		Zinsen	eS? 36 25.6										
		Heizyô	P 37 12.9										
		Chiufeng	M 0 42.0										
Nanking	eP 44 14												
7	Jan. 23	Keizyô	P 7 32 24.3		+130			33.0		6 35.0	4865	U.S.C.G.S. gives λ=170°W, φ=52.°4N, H=7 ^h 24 ^m 07 ^s , Depth=nomal, Aleutian Islands, Felt at Dutch Harvar.	
		Heizyô	P 32 25.2							6 42.3	5021	J.S.A. gives λ=166.°0W, φ=52.°4N, H=7 ^h 24 ^m 18 ^s , Depth=38km, U.G.E.G.I.gives λ=171°W, φ=55°N.	
		Zinsen	iP 32 28.0									Zurich gives λ=174°W, φ=51°.5N, Chiufeng gives λ=175°W, φ=50°N.	
		Sitka	iP 7 28 39									2000	
		Seattle	eP 29 50							4 37	3825		
		Honolulu	iP 31 00							4 35	3790		
		Ukiah	eP 31 06							5 14	3610		
		Berkeley	eP 31 13							5 26	3660		
		Bozeman	eP 31 23							5 41	3835		
		Haiwee	eP 31 33							5 45	3965		
		Pasadena	iP 31 45							6 04	4550		
		Riverside	eP 31 48							6 13	4460		
		La Jolla	eP 31 55							6 21	4610		
		Chicago	iP 32 29							7 33	5940		
		Tucson	P 32 37							6 43	5015		
		Chiufeng	iP 33 05									5055	
		Zi-ka-wei	e 33 26										
		Layola	iP 33 27								7 27	5810	
		Florissant	eP 33 30								7 34	5360	
		Saint Louis	iP 33 31								7 36	5830	
		Nanking	iP 33 32								7 27	5840	
		Little Rock	eP 33 41								7 42	5990	
		Buffalo	iP 33 57								7 53	6230	
		Taihoku	eP 34 02.5								7 57.4	6380	
		Pittsburgh	iP 34 06								8 01	6460	
		Burlington	iP 34 09								8 09	6440	
		Georgetown	iP 34 20								8 18	6660	
Charlottesville	eP 34 20								8 20	6620			
Philadelphia	iP 34 22								8 22	6640			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Harvard	iP	h m s 7 34 25	μ	μ	μ	s	s	s	m s 3 29	km 7000	
		Columbia	eP	34 35							8 07	6570	
		Manila	iP	34 52							8 56	7400	
		Amboina	eP	35 48							9 33	3460	
		Uccle	iP	35 57	- 47	+ 51					9 47	3450	
		Tiflis	eP	36 22							10 09	8970	
		San Juan	P	36 32							10 23	9100	
		Medan	P	37 02							10 22	9230	
		Batavia	P	37 11							9 59	8390	
		Huancayo	eP	38 38							11 20	10035	
		Madagascar	SKKS	53 15								15290	
8	Jan. 20	Heizyô	P	0 48 27.4									
		Zinsen	e	48 53									
		Husan	e	49 17.4									
		Chiufeng	eP	0 39 26									2145
		Nanking	P	40 42							4 28		2790
		Tiflis	P	42 14									
		Pasadena	e	48 25									
		Manila	P	51 35							4 22		2855
		Madagascar	eL	1 33									
9	Feb. 4	Ihusan	e	20 10 59.1									Iyonada.
10	Feb. 4	Husan	e	21 19 30.5									Philippine.
		Zi-ka-wei	P	21 01 29									
		Amboina	iP	08 49							1 06		610
		Manila	iP	10 47							2 39		1535
		Batavia	iP	12 16							4 03		2560
		Medan	eP	13 01							5 40		3750
		Nanking	iP	13 44							3 36		2135
		Chiufeng	iP	14 51							5 49		4120
		Tiflis	e	19 36									
11	Feb. 7	Husan	P	17 34 00.7							4 14.4		2616
		Taikyû	P	34 10.9							4 00.8		2540
		Zinsen	eP	34 28.3							4 07.5		2333
		Manila	iP	17 29 40									220
		Nanking	iP	32 00							3 33?		2090?
		Zi-ka-wei	e	33 11									
		Amboina	P	33 17									
		Batavia	P	34 28							6 14		4670
		Medan	P	34 35							4 41?		3110?
		Chiufeng	iP	34 49							4 37		2955
		Uccle	eL	13 17									
12	Feb. 9	Keizyô	iP	19 22 00.2	- 16	+ 9		4.2	4.2		2 38.6		1516
		Husan	iP	22 37.2							4 11.5		2583
		Taikyû	iP	22 47.1							3 12.7		1890
		Zinsen	iP	22 56.9							2 46.3		1603
		Heizyô	P	23 12.5		- 20			5.1		3 03.		1780

Manila gives
 $\lambda=121^{\circ}50'E$,
 $\varphi=12^{\circ}40'N$,
 Depth=60km,
 Felt in S and SE
 parts of Luzon with
 intensity IV and in
 Manila with intensity
 III and reported vi-
 olent in Romblon.

(m)Tôkyô gives
 $\lambda=121^{\circ}.8E$,
 $\varphi=24^{\circ}.7N$.
 Taihoku gives
 $\lambda=121^{\circ}.9E$,
 $\varphi=24^{\circ}.6N$.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Taihoku	^h 19 ^m 19 ^s 54.3	^μ -10500	^μ -10000	^μ +3900	^s 1.6	^s 1.5	^s 1.6	^m 09.2	68	In the region of Soô.
		Taitô	20 09.7		>700				29.8	221	Seismic Intensity	
		Taityû	20 14.9	±1325	±1325		4.3	4.4	16.5	123	Taihoku; strongly.	
		Isigakizima	21 07.6	±600	±600		5.0	5.0	23.5	175	Karenkô; moderately.	
		Nagasaki	22 17.2	- 29	- 21		2.9	2.4	3 54.6	2375	Taityû; slightly.	
		Oosaka	22 19.0	- 19	+ 11	- 8	4.4	4.2	3 41.4	2210	Manila gives λ=121°.8E, φ=24°.7N.	
		Kumamoto	22 27.2	- 56	+ 43	- 23	2.1	2.3	3 59.8	2440		
		IInkuoka	22 33.0						3 53.0	2410		
		Wakayama	23 14.9	± 30			15.0		4 04.0	2435		
		Gihu	23 34.3						4 43.8	3030		
		Titizima	23 43.0						3 40	2200		
		Nagano	23 59.9						4 08.5	2550		
		Palau	24 25.1						4 00	2440		
		Zi-ka-wei	e 19 21 16						1 16	790		
		Nanking	iP 21 37	92600	111000	63000			1 23?	810?		
		Manila	P 22 11						1 58	1135		
		Chiufeng	iP 23 31	32500	61500	28500			3 09	1910		
		Amboina	eP 25 51						4 44	3160		
		Medan	P 26 05									
		Batavia	P 26 24							4570?		
		Tiflis	e 30 13						8 58	7070		
		Tinmaha	iP 33 10									
		MountWilson	eP 33 17									
		Pasadena	iP 33 13									
		Riverside	eP 33 20									
		Ia Paz	P' 39 51									
		Uccle	eL 20 03									
13	Feb. 10	Husan	iP 18 31 42.9						1 47.7	997	Western off Titizima Is.	
		Taikyû	P 31 34.3?						1 55.7	1077	Deep earthquake.	
		Nanking	P 13 32 52						2 50	6110		
		Chiufeng	eP 33 25						2 12?	1365		
		Tinmaha	iP 41 01									
		Pasadena	iP 41 08									
		Riverside	iP 41 11									
14	Feb. 17	Husan	eP 16 20 38.7								Off Karenkô.	
		Keizyô	eP 21 20									
		Taikyû	eL? 55 46.7									
		Nanking	eP 16 15 25						1 59	1180		
		Chiufeng	e 16 21							1935		
		Zi-ka-wei	e 16 41									
		Tiflis	L 55.7									
15	Feb. 19	Taikyû	P 20 12 47.8						2 14.2	1262	(m)Tôkyô gives λ=140°.8E, φ=35°.7N,	
		Husan	eP 13 04.6						1 56.4	1084	Noth part of Kuzû- kuri-hama.	
		Zinsen	eP 13 07.7						2 34.2	1472	Seismic Intensity	
		Katuura	20 10 31.0	+1250	+1240		2.1	3.0	8.2	61	III Katuura, Kakioka,	
		Tyôsi	10 33.4	+1480	+4350	+1220	2.5	1.5	7.2	53	II Tyôsi, Mito, Tôkyô, Yokohama,	
		Kakioka	10 37.2	-1100	-1450	- 264			8.2	61	I Numadu, Itô, Sen- dai, Hakoneyama.	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks				
				N	E	Z	N	E	Z							
		Nank'ing	e	h	m	s	μ	μ	μ	s	s	s	m	s	km	
		Manila	eP	20	54	30?							1	55	1115?	
		Chiufeng	P		56	22							3	08	1900	
19	Feb. 24	Taikyû	P	3	13	20.3							2	11.3	1233	Ditto.
		Chiufeng	eP	3	02	28							8	55	7480	
20	Feb. 27	Taikyû	P	9	16	00.3										Manila gives Netherland, East India, Felt in Minahasa (N. Celebes.)
		Amboina	P	9	09.8											
		Manila	P		12	35							2	53	1670	
		Batavia	P		14	10							3	51	2400	
		Medan	iP		15	10							4	35	3000	
		Zi-ka-wei	P		15	22										
		Nank'ing	iP		15	34							4	42	2980	
		Chiufeng	iP		16	45							5	55	4145	
		Tiflis	P		21	41							10	09	8970	
		Tinmaha	e		28	14										
		Mount Wilson	e		28	15										
		Pasadena	e		28	20										
		Riverside	e		28	22										
21	Mar. 2	Keizyô	eP	6	01	32										
		Zinsen	eS		02	42.7										
		Taikyû	eP		03	41.8										
		Husan	P		24	16.5							1	57.5	1095	
		Chiufeng	e	5	57	54										
		Manila	P	6	10	47									1780	
		Tiflis	eL		11	—										
		Uccle	eL		29	—										
22	Mar. 2	Taikyû	P	6	09	01.6							01.1		8	Local. Near Taikyû.
		Zinsen	eS		02	42.7										
23	Mar. 5	Zinsen	e	10	35	10.2										Turky.
		Tiflis	eP	10	28	39							1	34	850	
		Chiufeng	eP		35	24							6	07	5500	
		Zi-ka-wei	e		36	20										
		Nank'ing	eP		36	26							7	12	5490	
		Tinmaha	iP		38	48										
		Pasadena	eP		38	56										
		Mount Wilson	iP		38	58										
		Riverside	iP		39	00										
		Honolulu	eP		42	10										
		Manila	P		45	24							5	57	4330	
		Ia Paz	L	11	36	00	+ 5			+ 5						
		Uccle	F		50											
24	Mar. 5	Keizyô	eP	22	37	07.0										
		Chiufeng	iP	22	22	12	14	8	15				5	04	3365	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks	
				N	E	Z	N	E	Z	m	s			
25	Mar. 7	Tiflis	P 22 22 15	μ	μ	μ	s	s	s	5	06	3325		
		Nanking	eP? 22 27							5	21	3580		
		Zi-ka-wei	e 22 50											
		Medan	eP 23 25											
		Manila	P 23 23								9	19	7630	
		Uccle	e(P) 25.9											
		I a Paz	iP' 25 42											
		Sitka	eL 23 04.5											
		San Juan	eL 22.0											
		Huancayo	eL 47.6											
		Husan	eP 10 29 06.6											
		Keizyô	P 30 54.7	± 6	± 7		10.0	10.6						(m)Tôkyô gives
		Zinsen	e 31 11											λ=139°.6E,
		Taikyû	eP 31 28.4											φ=40°.0N,
		Akita	10 27 00.7	-2700	+4500	+1000	1.9	1.9	2.4	13.1	97			Off Ozika Penin-
		Aomori	27 09.5	+1550	+1200		2.2	2.1		27.9	207			sula, Akita Prefecture.
		Morioka	27 13.7	+ 130	- 125	± 172	2.7	2.7	2.5	16.7	124			Felt in the north
		Hakodate	27 21.8	- 900	+ 900		2.4	2.5		37.2	277			part of Oou.
		Sendai	27 22.9	+ 221	+ 218		2.8	2.2		38.9	289			Seismic Intensity
		Wazima	27 28.8	± 134	± 160					44.4	329			I Akita, Aomori.
		Miyako	27 29.4	- 260	- 144		3.6	3.6		26.2	194			II Morioka.
		Sapporo	27 38.6	+ 28	+ 52		3.0	3.6		52.3	383			
		Nagano	27 40.4	+ 119	+ 96	- 51	3.6	2.7	2.3	53.0	393			
		Kakioka	27 50.	- 34	+ 28		1.1	1.1		56.	415			
		Tokyô	28 01.0	- 138	± 72	± 29	2.0	1.5	1.1	1 08.3	510			
Tomisaki	28 06.6	± 32	± 42		2.9	3.3		1 15.2	557					
Gihu	28 09.7	- 14	+ 6		5.0	2.4		1 29.2	910					
Oosaka	28 28.8	- 26	- 20	+ 13	2.3	4.4	3.6	1 33.5	880					
Hukuoka	29 11.3							2 13.0	1940					
Nanking	eP 10 30 46							2 27	2020					
Zi-ka-wei	e 30 46								1933					
Chiufeng	P 30 49							2 28	2120					
Tinemaha	iP 38 28													
Santa Bardara	iP 38 30													
Haiwee	iP 38 31													
Pasadena	iP 38 33													
Mount Wilson	iP 38 39													
Riverside	iP 38 41													
La Jolla	iP 38 46													
La Paz	P 46 29													
Tiflis	eL 11 02.4													
Uccle	eL 10 —													
26	Mar. 7	Husan	P 10 42 04.1						31.4	233		Tôkyô gives		
Taikyû	P 42 28.4							45.0	324			λ=121°.1E,		
Keizyô	P 44 00.2											φ=33°.1N,		
Zinsen	eS 44 13.0											Mt. Aso.		
27	Mar. 8	Husan	P 0 46 31.0										Ditto.	
28	Mar. 11	Taikyû	P 11 24 16.3						2 25.7	2027		Manila gives		
												λ=124°E, φ=25°N.		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks
				N	E	Z	N	E	Z			
29	Mar. 20	Zinsen	eP 11 24 24.5	μ	μ	μ	s	s	s	m s	km	U. S. C. G. S. gives λ=158°E, φ=8°S, H=22 ⁿ 57 ^m 28 ^s , Solomon Island, Manila gives λ=162°E, φ=5°S.
		Husan	eS 25 46.1									
		Keizyō	eP 27 05	± 9			12.0					
		Zi-ka-wei	e 11 23 48							2 33	1478	
		Nanking	P? 24 03							3 17	1900	
		Manila	P? 25 33							2 16	1210?	
		Chiufeng	P 25 45	12	7	11				2 19	2020	
		Zinsen	eP 23 06 49							7 21	5710	
		Husan	S 13 22.7									
		Taikyū	eS? 14 24.3									
		Manila	iP 23 05 13							6 23	4730	
		Batavia	P 06 10							7 17	5700	
		Zi-ka-wei	P 06 30									
		Nanking	P 05 54							7 29	5780	
Chiufeng	iP 07 43							6 44	5090			
Medan	P 03 04							7 37	5030			
Pasadena	iP 10 27											
La Paz	iP 16 39											
Tiflis	e 16 48											
San Juan	e 17 36											
Sitka	e 20 20											
Honolulu	e 21 00											
Huancayo	ePS 28 20											
30	Mar. 21	Husan	eS 0 16 22.4									
		Taikyū	eP 16 07.7									
		Zinsen	eS 13 04.2									
		Medan	iP 0 03 55							3 59	2500	
		Nanking	iP 09 40							4 26	2755	
		Chiufeng	iP 09 43							4 26	2920	
		Zi-ka-wei	e 09 58							5 16	3678	
		Manila	P 10 13							7 41	6125	
		Batavia	P 13 53							5 16	3670	
31	Mar. 23	Keizyō	P 23 49 28.6							1 20.0	720	Tōkyō gives λ=133°.0E, φ=42°.4N, SE off Vladivostok. Deep earth quake.
		Keizyō	iP 49 24.9	+ 15	- 12		4.6	3.6		1 23.1	760	
		Zinsen	iP 49 36.5	+ 38	- 15	- 30	7.8	4.4	9.7	1 26.2	792	
		Taikyū	P 49 46.1							1 20.0	830	
		Husan	eP 49 52.3							1 33.7	887	
		Chiufeng	iP 23 50 27							1 54	1135	
		Nanking	iP 50 59							2 29	1390	
		Manila	iP 53 15							4 20	2845	
		Medan	eP 56 16							5 55	4360	
		Tiflis	eP 57 12							7 32	6550	
		Pasadena	iP 59 06									
		La Jolla	iP 59 13							9 29	8180	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
32	Apr. 9	Bozeman	eL. 21 58.6	μ	μ	μ	s	s	s	m s	km	(m) Tôkyô gives λ=137°.9E, φ=35°.0N, Middle reaches of the River Tenryû. Seismic intensity III Hamamatu, Gotenba. II Omaesaki, Misima, Nagoya, Numadu. I Itô, Gihu, Yokohama, Maebasi.	
		Huancayo	e 22 00 03										
		Charlottesville	eL. 08.0										
		Columbia	eL. 10.7										
		Husan	S 8 22 22.5										
		Taikyû	e 25 10.8										
		Omaesaki	8 18 55.5	+4400	+5200	± 680	1.3	1.8		06.1	45		
		Hamamatu	18 58.9	+5000	+5000		0.2			05.6	42		
		Misima	19 02.8	- 544	+ 510	- 235	2.1	1.8	1.5	12.8	95		
		Gihu	19 07.4	+ 482	+ 416	- 201	1.2	0.9	0.9	12.1	90		
		Yokohama	19 13.9	- 322	- 372	+ 104	0.7	0.9	1.9	22.2	165		
		Kyôto	19 16.5	+ 94	+ 126	+ 36	1.0	1.1	0.9	22.5	249		
		Maebasi	19 18.2	- 145	+ 187	- 61	1.6	1.2	1.2	22.2	173		
		Oosaka	19 19.6	- 271		+ 114	2.4		2.2	26.0	193		
		Tôkyô	19 20.1	± 366	± 210		3.6	2.9		26.4	196		
		Kakioka	19 22.7	- 106	+ 82	- 25	0.9	0.9	0.9	32.9	237		
		Kôbe	19 24.3	+ 69	- 90	- 36	1.3	1.4	1.8	36.3	269		
		Muroto	19 40.7	+ 20	+ 28		2.8	2.0		54.9	408		
		Kôti	19 46.	± 10	± 15	± 10	2.0	2.0	2.0	56.	416		
		Sendai	19 52.0	+ 42	- 41	+ 16	2.6	2.6	1.2	1 01.5	457		
Akita	20 12.7							1 06.3	496				
Hukuoka	20 32.7							1 44.6	772				
34	Apr. 11	Chiufeng	e 8 22 58										
		Nanking	P 22 33										
		Keizyô	eP 1 33 24.6		± 50			18.0		4 44.0	2015		
		Zinsen	eP 35 22.1						2 31.2	2092			
		Husan	eS 27 52.7										
		Taikyû	eS? 28 11.2										
		Medan	eP 1 20 54						1 19	1260			
		Malabar	eP 22 55										
		Batavia	iP 22 56										
		Manila	P 23 22						4 35	2055			
Zi-ka-wei	e 24 05						5 07	2544					
Chiufeng	P 24 26	12	8	22			5 17	2565					
35	Apr. 11	Keizyô	P 15 27 29.2									(r) Tôkyô gives λ=140°.7E, φ=26°.8N, NE part of Miyagi Prefecture. Seismic Intensity III Mito, Kakioka. II Hukusima, Yama- gata. I Tôkyô, Yokohama.	
		Mito	15 25 17.2	-1350	-2200		1.2	1.3		10.2	76		
		Kakioka	25 18.7	- 800	+ 750	- 198				10.8	80		
		Hukusima	25 21.8							14.1	105		
		Sendai	25 27.5	+ 276	- 271	- 139	2.1	1.3	1.2	18.2	126		
		Tôkyô	25 32.2	- 244	+ 269	- 187	4.0	1.4	2.4	13.8	102		
		Yokohama	25 32.7	+ 177	+ 186	± 102	0.7		2.4	21.3	158		
		Misima	25 39.1	± 84	- 173	- 50	2.4	2.4	2.2	20.0	148		
		Nagoya	25 58.4	- 214	- 94		2.4	2.1		58.4	433		
		Oosaka	26 16.7	- 13	+ 7	+ 5	3.2	3.2	3.0				
		Kôbe	26 18.4	± 18	+ 25	- 10	4.2	2.5	1.8	1 14.1	550		
		Nemuro	27 42.4							1 21.2	603		
		Hukuoka	28 48.1							1 11.4	520		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks						
				N	E	Z	N	E	Z									
26	Apr. 11	Nanking	iP	h 15	m 29	s 13	μ	μ	μ	s	s	s	m 2	s 43	km 2220	<p>U. S. C. G. S. gives λ=52.°1E, φ=35.°9N, H=22^h 14^m 42^s, Teheran, Persia.</p> <p>J. S. A. gives λ=53.°5E, φ=37.°2N, H=22^h 14^m 51^s.</p> <p>U. G. E. G. I. gives λ=50.°E, φ=28°N.</p> <p>Madagascar gives λ=50.°E, φ=26.°N.</p> <p>Destructive at Mezanderan.</p>		
		Chiufeng	eP		29	40								2	14		1965	
		Pasadena	iP		26	53												
		Taikyû	eP	23	20	57.3												
		Husan	eP		21	49.2					12.0	9.0		8	01?		6460	
		Keizyô	eP		24	26.6	±	6	±	11								
		Zinsen	e		20													
		Uccle	P	22	22	02	+	66	-	25							4070	
		Chiufeng	iP		23	29								7	19		5710	
		Medan	eP		24	04												
		Zi-ka-wei	e		24	05								5	07		3544	
		Nanking	iP		24	07								7	24		5890	
		Madagascar	P		24	25								7	48		6125	
		Manila	iP		25	17								9	05		7545	
		Batavia	iP		25	24								9	23		8150	
		Harvard	e		27	30												
		Sitka	eP		27	21								10	29		9580	
		Ottawa	eP		27	22											9520	
		Buffalo	eP		27	45											9900	
		Georgetown	iP		27	58											10150	
		Florissant	iP		28	25								11	28		10820	
		San Juan	eP		28	40								10	26		9510	
		Philadelphia	ePP		31	05												
		Chicago	e		31	49												
		Little Rock	iP		31	59												
		Ukiah	e		32	10												
		Bozeman	ePP		32	14												
		Saint Louis	eP _R		32	28												
		Seattle	eP		32	29												
		Pasadena	i		33	47												
Tucson	e		33	50														
La Jolla	e		34	02														
La Paz	iP		35	49														
Huancayo	iPP		36	00														
27	Apr. 15	Taikyû	P	11	16	47.6							1	17.9	907	<p>(r) Tôkyô gives λ=137.°1E, φ=36.°2N, Depth=260km, NW part of Hida, Seismic Intensity II Kakioka. I Tôkyô, Morioka, Kusiro.</p>		
		Zinsen	eP		17	01.0	+	18			4.5		1	46.5	985			
		Keizyô	P		17	04.5	+	14	-	4	4.4	2.2	1	28.6	905			
		Toyama		11	15	41.4	+	290	-	490	-	200	3.2	3.2	3.6		27.1	201
		Hikone		15	42.6	-	480	-	267	+	57	1.6	1.6	1.8	22.9		170	
		Nagoya		15	42.8	+	302	-	395	+	80	1.6	1.4	1.9	27.7		205	
		Nagano		15	43.5	+	585	+	525	+	231	2.3	2.7	2.2	28.8		214	
		Wazima		15	44.8	-	528	-	661	-	110	1.0	1.0	2.1	28.6		213	
		Gihu		15	44.9	-	77	+	146	-	142	2.0	2.0	1.1	27.2		202	
		Hamamatu		15	47.0	+	172	-	300	+	127	2.7	2.7	2.9	31.1		231	
		Kakioka		15	51.2	+	166	-	228	-	50	0.9	0.9	0.9	34.8		258	
		Oosaka		15	52.6	-	569	+	381	+	338	3.6	3.6	3.6	36.3		269	
		Yokohama		15	52.8	+	165	+	101	±	50	0.8	0.5		33.2		247	
		Kôbe		15	52.8	+	185	+	163	+	172	4.0	3.4	2.0	36.0		267	
		Tôkyô		15	53.4	+	111	-	81			3.5	1.5		32.7		250	
Siomisaki		16	00.0	+	190	-	160	+	140	4.1	3.9	2.4	42.3	314				

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks
				N	E	Z	N	E	Z			
		Sendai	^h 16 ^m 05.4	+ ^μ 105	+ ^μ 104	+ ^μ 74	^s 2.7	^s 2.7	^s 3.2	^m 42.7	317	
		Kâti	16 11.0	± 50	± 50	± 75				50.0	371	
		Morioka	16 18.4	± 70	± 82	± 20	1.2	1.2	1.4	53.9	400	
		Hukuoka	16 37.8							1 14.5	553	
		Nagasaki	16 47.3	- 12	+ 14		2.9			1 21.3	603	
		Nanking	P 11 18 36							2 49	1600	
		Chiufeng	eP 19 29							2 19?	1390	
		Manila	P 20 18							5 50	4235	
		Tinemaha	iP 26 42									
		Haiwee	iP 26 45									
		Santa Bardara	iP 26 45									
		Pasadena	iP 26 51									
		Mt. Wilson	iP 26 51									
		Riverside	iP 26 53									
		La Jolla	iP 26 58									
38	Apr. 19	Zinsen	eP 15 36 05.0							10 20.1	9192	J. S. A. gives
		Keizyô	eP 36 05.7							10 14.0	9070	λ=15°E,
		Taikyû	cP 36 20.0							10 07.7	8944	φ=32°N,
		Husan	P 36 27.0							10 09.6	8982	H=15 ^h 23 ^m 32 ^s ,
		Heizyô	P? 54 51.4									Depth=40km.
		Tortosa	iP 15 26 58							3 01	1640	U. S. C. G. S. gives
		Zurich	cP 27 18.8							3 06.4	1800	λ=17°E,
		Ksara	iP 27 29							3 17	1907	φ=31°N,
		Prague	iP 27 47	270	550		22-16	20-30		3 18	1930	H=15 ^h 23 ^m 27 ^s ,
		Parc St. Maur	iP 27 57							3 38	2180	Libya, North Africa.
		Uccle	iP 28 06	- 240	- 175					3 41	2190	U. G. F. G. I. gives
		Kew	iP 28 30							4 07	2520	λ=16.°0E,
		Madagascar	eP 33 22							8 00	6245	φ=32.°5N,
		Des Moines	eP 34 16								8120	Felt in Malta, South
		Harvard	i 34 21							8 56	7360	of Italy.
		Burlington	iP 34 25							8 58	7470	
		Ottawa	eP 34 30							9 04	7640	
		Philadelphia	iP 34 42								7820	
		Pennsylvania	iP 34 55							9 16	8030	
		Georgetown	iP 34 57							9 22	8040	
		San Juan	iP 35 06							9 14	7383	
		Charlottesville	ePP 35 10									
		Ann Arbor	eP 35 18								8210	
		Chiufeng	iP 35 22							9 51	8610	
		Chicago	eP 35 25							9 48	8550	
		Columbia	eP 35 30							10 44	9770	
		Saint Louis	eP 35 42							10 08	9040	
		Florissant	eP 35 43							10 08	9050	
		Medan	P 35 44							10 15	9200	
		Nanking	P 35 57							10 14	9065	
		Little Rock	eP 35 59							10 33	9500	
		Zi-ka-wei	e 36 04							10 23	9156	
		Batavia	P 36 45							11 09	10490	
		La Paz	eP 36 46							10 52	10140	
		Huancayo	eP 36 50							10 27	9330	
		Manila	P 36 50							11 05	8735	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
39	Apr.20	Tucson	eP 15 36 52	μ	μ	μ	s	s	s	m S 10 27	km 9330	U. G. E. G. I. gives λ=18.°3'E, φ=32°N, Tripoli, Africa.	
		Pasadena	iP 37 18								11400		
		Bozeman	eP 37 20							9 39	8275		
		Seattle	e 38 39										
		Ukiah	ePP 41 24										
		Honolulu	i 59 17										
		Keizyō	P 5 34 09.5										
		Husan	eS 34 28.2										
		Prague	iP 5 15 19	21	40					3 23	2150		
		Uccle	eP 15 43							3 40	2180		
		Harvard	iP 21 52							9 06	7580		
		Philadelphia	eP 22 14							9 14	7880		
		San Juan	eP 22 27							9 23	8060		
		Chiufeng	eP 22 48							9 55	8690		
		Saint Louis	eP 23 13							10 10	8960		
		Florissant	eP 23 14							10 09	8970		
		Little Rock	eP 23 29										
		Medan	eP 23 30							10 02	8940		
		Zi-ka-wei	e 23 35										
		Batavia	P 24 03							11 17	10630		
		La Paz	eP 24 35							10 41	9700		
		Manila	P 27 23							7 00	5430		
		Tinemaha	e 24 48										
		Riverside	e 25 05										
		Pasadena	e 28 39										
		Mt. Wilson	e 29 00										
		Madagascar	e 30 46								6500		
		Charlottesville	e 32.0										
Chicago	e 32 47												
Columbia	eS 32 50												
Bozeman	e 34 52												
Huancayo	eKS 35 03												
Tucson	eS 35 06												
Ukiah	eL 57.5												
40	Apr.20	Husan	eS 11 15 57.2									Manila gives In the Nero Deep.	
		Manila	P 11 10 50							4 08	2640		
		Nanking	eP 12 52							3 16	1890		
		Chiufeng	e 13 18										
		Riverside	e 18 37										
		Tinemaha	e 18 42										
		Pasadena	e 18 43										
		Mt. Wilson	e 18 48										
41	Apr.20	Taikyū	iP 22 05 12.5	- 142	+ 233		6.7	6.7		2 52.6	1666	(r) Tōkyō gives λ=120°19'E, φ=24°21'N, Sintiku, Taityū, Formosa.	
		Husan	eP 05 14.5		+ 281			9.6		2 31.4	1444		
		Zinsen	iP 05 18.1	- 226		- 270	8.5		9.2	2 43.3	1563		
		Keizyō	P 05 20.5	- 222	- 170		8.2	7.0		2 43.0	1560		
		Heizyō	iP 05 36.0							3 00.0	1740		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks			
				N	E	Z	N	E	Z						
		Cincinnati	ePR ₁	^h 22 ^m 21 ^s 21	μ	μ	μ	s	s	s	m	s	km		
		Georgetown	ePR ₁	21 48											
		La Paz	iP'	22 09									18900		
		Little Rock	eP	22 44											
		Tucson	e	23 04											
		San Juan	ePP	24 27											
		Madagascar	eS	25 05									9320		
		Ukiah	eSKS	26 28											
		Ottawa	eSKS	27 —											
		Chicago	eS	28 14											
		Philadelphia	eS	28 21											
		Bozeman	eS	30 08											
		Charlottesville	PS	31 16											
		Sitka	eL	47.0											
42	Apr.20	Zinsen	eP	22 29 44.9	+ 17			4.5							
		Keizyō	P?	32 45.7											
		Taikyū	iP	33 51.8							2 52.2	1670			
		Husan	P	33 59.3							2 37.6	1506			Aftershock of No. 41. Tōkyō gives λ=121.°1E, φ=24.°6N.
43	Apr.21	Husan	eP	19 20 17.1							2 35.4	1484			Aftershock of No.41.
		Taikyū	P	20 24.1							2 48.0	1620			
44	Apr.22	Husan	eP?	5 11 45.5							2 38.4?	1514			Ditto.
45	Apr.22	Husan	eS	3 25 29.4											Ditto.
46	Apr.22	Husan	eP?	16 51 54.3							5 52.5	4095			
		Taikyū	eP	52 10.5							4 45.4?	2020?			
		Medan	P	16 50 17							3 49	2360			
		Nanking	iP	50 37							4 06	2500			
		Chiufeng	iP	50 52							4 11	2670			
		Zi-ka-wei	P	50 53							4 16	2767			
		Manila	iP	51 12							5 00	3420			
		Batavia	iP	51 59											
		Uccle	eP	56 55											
		San Juan	e	17 08 13							8 13	6560			
47	May 1	Zinsen	e	10 55 —											
		Keizyō	eP	57 54											
		Prague	eP	10 29 44							4 09	2620			
		Chiufeng	eP	34 07							7 33	5965			
		Nanking	eP	34 44							8 19	6665			
		Zi-ka-wei	e	35 02											
		Manila	P	36 07											
		Florissant	ePR ₁ ?	41 03							3 21	7845			
		Madagascar	S	42 00											
		Batavia	e	46.4											
		Philadelphia	eS	47 19											
		Sitka	eS	10 47 30											
		St. Louis	eSKS	48 18											
		Tucson	eSS	52 16											

U. G. E. G. I. gives
λ=42°E,
φ=38°N,
Causasus.

J. S. A. gives
λ=42.°6E,
φ=40.°N,
H=10^h 24^m 44^s.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S		Δ	Remarks		
				N	E	Z	N	E	Z	u	s				
48	May 4	Bozeman	e	h m s 11 07.4	μ	μ	μ	s	s	s	u	s	km		
		Chicago	eL	13.8											
		Ukiah	eS	17 36											
		Huancayo	eL	31.0											
		Taikyū	P	23 05 46.9								3 54.2	2363		Tōkyō gives.
		Zinsen	eP	05 49.1	-	6	+ 11		5.1	5.1		2 53.2	1672		λ=120.°9E,
		Husan	P	06 33.8								3 35.8	2147		φ=24.°6N,
		Keizyō	S	09 50.9											Formosa, suffered
		Heizyō	eP	10 11.4											by small damage.
		Zi-ka-wei	e	23 04 08								1 10	1020		
		Nanking	P	04 21								1 41	990		
		Manila	P	05 01								2 02	1180		
		Chiufeng	iP	06 18								3 05	1865		
		Medan	P	09 59								5 05	3490		
Uccle	e	25.9													
49	May 6	Husan	eS	17 47 23.3										Karenkō λ=121.°9E, φ=24.°6N.	
50	May 7	Husan	eP	6 02 24.4							3 58.6	2419		Hongkong gives λ=130.°5E, φ=8°N,	
		Taikyū	eP	04 03.2										East off Mindanao.	
		Amboina	P	5 57 47							1 44	970		Felt at Davao with	
		Manila	iP	58 01							3 12	1480		intensity III.	
		Batavia	P	6 00 29							3 52	2410			
		Zi-ka-wei	P	00 55							4 41	3133			
		Nanking	iP	01 09							4 45	3020			
		Medan	iP	01 17											
		Chiufeng	P	02 21							5 38	3945			
		Harvard	i	14 31											
		Huancayo	e	15 14											
		Ia Paz	P'	15 29											
		Sitka	e	19 08											
		Uccle	e(L)	47 —											
Prague	e	47.5													
Philadelphia	eL	56.0													
51	May 8	Husan	eP?	6 13 03.0							7 00.0	5320		?	
52	May 9	Husan	e	13 11 03.0										?	
53	May 10	Zinsen	L	17 20 30										Nanking gives	
		Husan	S	20 37.9										λ=8°E, φ=20°N,	
		Manila	P	17 09 17							3 47	2335		Between Burma &	
		Nanking	eP	03 18	15	10		8	8		3 48	2280		Siam.	
		Chiufeng	eP	10 13							4 18	2790			
		Zi-ka-wei	e	13 29											
		Batavia	eP	17 18											
Medan	P	18 23							4 55	3330					
54	May 13	Husan	eP	20 02 19.9	± 260	± 130		18.8	16.1		7 04.6	5412		Nanking gives	
		Zinsen	eP?	03 45.6	+ 18	+ 26	- 12	6.7	6.8	6.9	3 25.8?	2028?		λ=101°E, φ=20°N,	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
70	June 1	Husan	P	^h 14 ^m 45 ^s 29.9	"	"	"	S	S	S	^m 4 ^s 21.8?	^{km} 2717?	Felt at Davao with intensity III by Manila.
		Taikyū	eP	46 04.4							3 16.5?	1925?	
		Amboina	P	14 41 26							2 16	1300	
		Manila	iP	42 02							2 10	1255	
		Zi-ka-wei	P	44 36									
		Nanking	iP	45 14							4 22	2345	
		Medan	iP	45 37							5 00	3410	
		Chiufeng	iP	46 25							5 20	3635	
Uccle	eL	15 30 —											
71	June 2	Zinsen	eP	9 25 18.6									U. G. E. G. I. gives λ=66.°5E, φ=30.°5N. U. S. C. G. S. gives λ=67.°0E, φ=31.°0N, Baluchistan, India.
		Husan	iP	25 34.8									
		Chiufeng	iP	9 24 13							6 19	4655	
		Medan	eP	24 36							8 27	5030	
		Prague	iP	24 37							6.6	5000	
		Nanking	iP	24 43							6 34	4810	
		Zi-ka-wei	i	24 54									
		Uccle	iP	25 25							7 15	5540	
		Manila	iP	25 39							7 23	5825	
		Batavia	eP	26 25							7 59	6480	
		Amboina	eP	26 33							8 17	6320	
		Philadelphia	iP	34 02									
		Ia Paz	P	35 54								15660	
		San Juan	e	36 13									
Huancayo	eS	39 37											
Sitka	e	10 02.1											
Tucson	eL	20.0											
72	June 3	Taikyū	P	0 48 00.6								Local. I;Eisyūri.	
73	June 7	Husan	eP?	2 54 57.0							3 41.2?	2212?	Taiboku gives λ=120.°6E, φ=24.°2N.
		Keizyō	eP	58 59									
		Zi-ka-wei	e	2 54 08							1 16	700	
		Nanking	S?	54 24									
		Chiufeng	eP	54 48							3 06	1880	
Manila	P	55 19							2 24	1390			
74	June 9	Husan	eP	6 39 10.4							4 21.4	2711	South China sea.
		Taikyū	S?	42 09.9									
		Manila	P	6 35 21							1 30	830	
		Zi-ka-wei	e	38 26							3 43	2289	
		Nanking	iP	38 44							3 52	2320	
		Medan	eP	39 16							5 08	3540	
		Batavia	P	39 45							4 43	3140	
Chiufeng	P	40 02							4 50	3145			
75	June 10	Husan	eP	6 54 12.3							2 41.8	1548	Tōkyō gives λ=139.°4E, φ=33.°5N, NNW off Hatizyō-zima.
		Taikyū	eP	54 23.0									
		Nanking	eP	6 56 06							3 44	2235	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
76	June 14	Chiufeng	eP 6 56 42	μ	μ	μ	s	s	s	m s 3 38	km 2235	Tōkyō gives λ=140.°2E, φ=24.°7N. South off Katura, Tiba Prefecture, Seismic Intensity III Yokosuka, II Yokohama, Tōkyō, Tomisaki, Misima, Kakioka, I Mito, Hatizyō- zima.	
		Husan	e 21 10 57.8										
		Taikyū	P 11 52.4										
		Katura		21 09 29	+1554	+1312		2.1	2.4		06.7		50
		Tomisaki		09 40.1	±740	+ 540		1.4	1.4		08.8		65
		Yokosuka		09 46.7	+1150	+1852		3.2	3.2		11.1		82
		Yokohama		09 46.7	-2950	-2040	+ 492		0.9	0.7			93
		Tyōsi		09 46.9	- 550	+ 320	- 125	1.2	2.6	2.6	12.5		104
		Tōkyō		09 47.0	-1650	+1450	+ 700	1.0	0.8	0.8	11.8		83
		Misima		09 49.8	+ 254	- 357	+ 144	2.5	2.5	2.5	15.5		106
		Kakioka		09 52.3	- 557	+ 728	+ 109	1.2	1.4	1.2	20.6		152
		Hatizyozima		09 58.8	- 492	- 252	+ 119	1.5	1.8	1.9	20.0		143
		Hamaratu		10 05.0	- 67	- 78	+ 30	2.2	2.7	1.9	17.7		205
		Nagoya		10 14.7	+ 105	- 74	- 44	1.8	2.6	1.6	46.2		342
		Sendai		10 20.2	+ 77	- 117	+ 33	2.8	2.6	1.4	44.7		322
		Kōbe		10 31.4	- 12	+ 16	+ 8	3.1	3.7	3.0	49.2		366
		Titizima		11 22.4	± 7	± 7	± 3	3.5	3.5	3.5	1 20.1		595
Sapporo		11 50.8	+ 11	+ 14		3.5	3.8		1 19.4	584			
77	June 18	Nanking	P 21 13 41							3 42	2200	Felt at Borongan and Legaspi with inten- sity III by Manila.	
		Chiufeng	eP 19 13							3 23	2065		
		Husan	eP 22 30 35.0							6 22.2	4649		
		Taikyū	P 22 52.6							4 15.5	2632		
		Keizyō	P 33 12.2		± 12			11.4		4 24.8	2760		
		Manila	P 22 28 58							1 02	525		
		Zi-ku-wei	P 32 06							3 36	2189		
		Nanking	P 32 24							3 38	2155		
		Ambouia	P 32 32							2 54	1710		
		Batavia	P 33 21							3 18	1830		
		Malabar	eP 33 30										
		Chiufeng	eP 33 41							4 43	3045		
		Medan	eP 34 07							3 49	2370		
		Uccle	e 37 12										
		Sitka	eP 40 20							10 18	9150		
		San Juan	e 47 24										
		Honolulu	e 48 25										
Ukiah	e 52 00												
Tucson	i 54 50												
78	June 24	Husan	iP 23 33 26.2							4 21.8	2717	U. S. C. G. S. gives λ=168°E, φ=15°S, H=23 ^h 23 ^m 0 ^s , Depth=slightly le- low normal, New Hebrides Is. Region in Pacific Ocean.	
		Taikyū	P 33 31.1							8 22.0	6860		
		Keizyō	iP 33 45.2							4 36.7	2920		
		Zinsen	iP 33 46.2	- 25	- 8		6.8	4.8		8 33.3	7086		
		Heizyō	P 33 57.6							8 52.8	7456		
		Apia	iP 22 27 36							4 21	2240		
		Riverview	iP 28 17							4 11	2620		
		Wellington	iP 28 40							4 20	2960		
		Christchurch	iP 28 57								3160		
		Adelaide	eP 30 20							5 15	3620		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S		Δ	Remarks		
				N	E	Z	N	E	Z	m	s			km	
80	June 28	Prague	e	^b 13 02 —	μ	μ	μ	s	s	s	m	s	km	(m) Tōkyō gives λ=140.°E, φ=34.°N, Depth=30km, South sea off Katsuura. Seismic Intensity III Yokohama, Tōkyō, Kakioka, II Tomisaki, Misima, Utunomiya, I Itō, Numadu, Mito, Hatizyōzima.	
		San Juan	e	03 25											
		Uccle	eI	10 —											
		Chicago	e	11 23											
		Huancaayo	eSS	13 10											
		Husan	eP	19 03 07.5								1 57.9	1097		
		Taikyū	P	00 16.4								1 47.6	996		
		Zinsen	iP	00 38.0								2 51.5	2335		
		Heizyō	P	00 48.4											
		Tomisaki		18 58 05.7	>+780	>-910	+ 540					6.6	49		
		Itō		58 11.5	+126.	+1125		0.5	0.5			12.6	94		
		Yokohama		58 11.8	±2250	-4850	- 672					11.6	86		
		Tokyō		58 11.8	-1100	-3700	+ 320	1.1	1.2	0.4		^{12.7} _{14.0}	⁹⁴ ₁₀₄		
		Misima		58 15.5	+ 480	- 460	+ 220					14.5	108		
		Numadu		58 16.0	+ 56	- 72	+ 156	1.8	1.8	1.8		21.4	159		
		Kakioka		58 16.7	- 800	-1000	- 145	2.7	2.5	1.3		19.4	144		
		Hatizyōzima		58 23.7	+ 478	>-750	+ 204	2.2	1.9	1.2		21.8	132		
		Hamamatu		58 20.5	- 277	+ 222	+ 75	2.9	2.9	2.2		30.5	227		
		Nagoya		58 40.2	+ 222	± 158	- 70	2.5	2.7	1.6		31.2	232		
		Wazima		58 50.7	± 169	± 207						41.7	309		
		Kōbe		58 54.2	- 28	± 36	± 26	2.7	2.7	3.1		50.2	373		
		Kōti		59 20.	± 10	± 10	± 5	2.0	2.0	1.5	1 10.		519		
		Sapporo		59 44.6	+ 18	- 22		2.6	3.0			1 17.9	578		
		Zi-ka-wei	e	19 01 41								3 33	2022		
		Nanking	iP	02 06								3 31	2065		
Chiufeng	P	02 22								3 35	2090				
81	June 29	Zinzen	eI	7 53 —										U. S. C. G. S. gives λ=103.°W, φ=18.°N, H=6 ^h 49 ^m 01 ^s . J. S. A. gives λ=103.°W, φ=18.°N, H=6 ^h 48 ^m 52 ^s .	
		Denber	iP	6 53 43							3 56	2020			
		Saint Louis	iP	53 59							4 11	2560			
		Florissant	iP	54 00							4 12	2580			
		Harvard	iP	55 56											
		La Paz	iP	57 47							7 06	5480			
		Chiufeng	eP	7 03 20							12 16	12700			
		Nanking	P ₁	08 39									11540		
		Medan	eP?	08 57											
		Manila	P	09 32											
Madagascar	SKP	12 36													
82	June 5	Husan	iP	9 13 04.0							1 21.6	746	Chiufeng gives λ=134.°E, φ=31°N.		
		Taikyū	iP	13 10.8							1 28.6	819			
		Keizyō	iP	13 31.9							1 46.4	980			
		Zinsen	iP	13 33.1							1 49.1	1011			
		Nanking	iP	9 14 30							(2 42)	1920			
Chiufeng	iP	15 07													
83	June 5	Zinsen	iP	18 01 26.7							6 38.9	4943	U. G. E. G. I. gives λ=67.°E, φ=39°N, Turkestan.		
		Taikyū	P	01 40.3							7 00.0	5320			
		Husan	P	01 46.4							7 04.4	5408			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks
				N	E	Z	N	E	Z	m	s		
		Keizyô	e 18 18 04.0	μ	μ	μ	s	s	s	m	s	km	
		Chiufeng	iP 13 00 17	22			9			5	50	4145	
		Prague	eP 00 28	10	10		16	12		5	53	4200	
		Nanking	P 00 50	21			16			6	19	6520	
		Uccle	P 01 19	- 15	- 12		15	16		6	21	4340	
		Zi-ka-wei	iP 01 14							6	48	5200	
		Medan	P 01 22							6	07	4560	
		Manila	iP 02 17							7	28	5910	
		Batavia	e 07 24										
84	July 7	Heizyô	e 12 25 43.3										
		Taikyû	eP 27 03.5							4	21.3	2710	Manila gives
		Husan	eP 27 20.3							3	41.4	2214	λ=120°10'E,
		Keizyô	P 27 54.2							3	50.1	2320	φ=13°20'N,
		Zinsen	eP 27 54.4							3	39.2	2138	Felt in NW part
		Manila	iP 13 24 20							1	04	420	of Luzon with intensi-
		Zi-ka-wei	e 26 13										ty IV and slightly
		Nanking	iP 26 22							3	17	1900	in Manila.
		Chiufeng	iP 28 11	27	18		14	14		4	06	2565	
		Amboina	P 28 29							3	55	2440	
		Medan	P 28.3							(5	20)	3545	
		Batavia	iP 29 05							4	31	2940	
		Prague	eP 26 06							10	22	9100	
		Uccle	(e) 40.3	- 12			20.5						
		Florissant	e 43 10										
		La Paz	P 43 31	- 2	+ 2		14	14					
		Saint Louis	e 59 12										
85	July 11	Taikyû	iP 8 26 36.9							1	52.6	1046	(r) Tôkyô gives
		Husan	P 26 38.2							1	32.3	853	λ=138°26'E,
		Zinsen	eP 27 06.7	± 21	+ 23	- 20	8.0	8.1	8.5	2	02.0?	1140?	φ=34°58'N,
		Keizyô	P 27 08.6		- 1			6.6		2	13.0	1200	Depth=6~7km,
		Heizyô	27 29.5							2	13.3	1258	East of the city of
		Numadu	8 24 56.1	-13750	+11420	+5000	2.0	2.0	2.0	5.0		37	Sizuoka. Destructive,
		Omaesaki	24 56.7	+12600	-12500		2.9	2.9		6.7		50	shallow earthquake.
		Misima	24 57.4	-19000	-7200	+2300	1.7	1.4	1.6	5.6		42	Seismic intensity
		Hamamatu	25 00.0	±4100	±4100	±1100				9.6		71	Ⅴ Sizuoka.
		Yokohama	25 03.9	-6350	+2750	-1500	1.6	1.7	0.9	16.4		122	Ⅳ Numadu, Misima,
		Nagoya	25 10.9	+3600	-2150	± 550	2.5	2.5	1.3	15.6		116	Yokohama.
		Tôkyô	25 11.9	+4500	-3600	±1450	2.7	2.5	2.7	17.3		132	Ⅲ Nagoya, Omaesaki,
		Kakioka	25 13.2	- 494	+ 716	+ 161	1.2	3.4	1.7	25.9		193	Ⅱ Hamamatu,
		Kyôto	25 23.6	+1250	+ 544	- 238	2.5	2.4	—	32.2		240	Tôkyô, Kakioka.
		Oosaka	25 23.8	+1625	+1375	- 462	4.2	4.2	1.9	36.5		271	Ⅰ Oosaka, Mito.
		Kôbe	25 21.4	- 510	- 740	- 420	—	—	3.9	42.3		323	
		Kôti	25 49.8	± 160	± 180	± 80	3.0	3.0	2.2	1	02.5	464	
		Midusawa	26 01.		- 262					1	15.	532	
		Hukuoka	26 27.1	+ 286	- 126		3.8	2.7		1	46.5	791	
		Sapporo	26 52.3	+ 76	+ 64	+ 67	2.3	4.8	2.1	1	54.6	851	
		Titizima	27 03.0	± 12	± 12					1	28.3	655	
		Taihoku	28 53.3		± 70			14.0		13	30.4	2034	
										13	23.8	2009	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks
				N	E	Z	N	E	Z	m	s		
		Zi-ka-wei	e	8 23 13	μ	μ	μ	s	s	s	(3 22)	2011	
		Nanking	iP	23 48							3 12	1845	
		Chiufeng	iP	29 02	22	19	33	11	12	12	3 34	2190	
		Manila	iP	30 20							4 37	2030	
		Medan	P	33 40							6 51	5260	
		Batavia	iP	33 46							5 21	3750	
		Prague	eP	37 05	3	2		15	14		10 14	8750	
		Uccle	eP	37(22)							(10 29)	(9410)	
		La Paz	P	44 44									
86	July 12	Zinsen	eP?	1 51 57.0							2 56.0?	1700?	
		Keizyo	iP	52 11.0							2 59.5	1745	
		Husan	eL?	52 17.5									
		Chiufeng	eP	1 45 26							3 16	1990	
		Nanking	P	46 37							7 11	5470	
		Batavia	eP	52 35									
		Prague	e	2 04 26									
		Uccle	eL	— 03									
87	July 12	Keizyo	P	3 42 51.4							3 43.8	2245	Uruppu, Kurile Is.
		Chiufeng	eP	3 43 44							4 30	2368	
88	July 15	Taiikyū	e	4 17 53.1									Local?
89	July 16	Husan	iP	15 00 57.2		+ 20			1.2		23.0	184	(m) Tōkyō gives
		Taiikyū	P	01 11.0							31.0	220	λ=131.°25E,
		Keizyo	P	01 49.7	- 11	+ 9		2.0	1.4		56.4	419	φ=34.°3N,
		Zinsen	eP?	01 53.0							53.0?	420?	Western part of
		Keizyo	eP?	02 42.7							1 10.0?	640?	Yamaguti Prefecture.
		Simonoseki		15 00 40.0	± 319	± 668					6.3	47	Seismic Intensity
		Hamada		00 45.8	+ 54	- 58	+ 50	0.9	0.5	1.0	12.1	90	III Kure.
		Hukuoka		00 49.3	+ 392	+ 471	- 150				14.0	104	II Simonoseki, I I Hamada.
		Kumamoto		01 00.0	- 910	+ 500	- 197				22.6	168	
		Nagasaki		01 06.4	+ 137		+ 25	2.5		0.9	27.0	200	
		Kōti		01 03.9	± 100	± 50	± 60	0.7	0.7	1.5	30.3 31.8	225 236	
		Kagosima		01 19.1	- 231	+ 364		2.2	1.4		44.0	227	
		Kōbe		01 23.1	- 70	- 65	- 54	2.2	1.6	1.9	50.7	376	
		Osaka		01 25.6	+ 16	+ 15	+ 4	2.5	3.3	1.3	58.4	433	
		Hanumatu		01 51.2	+ 24	+ 16	- 12	1.6	1.6	1.7	1 21.8	607	
		Misima		02 10.9	± 12	- 20		2.0	2.0		1 45.4	782	
		Kakioka		02 39.									
		Tōkyō		02 44.									
		Nanking	e	15 02 06									
		Chiufeng	eL	06 50									
90	July 16	Husan	L	15 33 39.0									?
91	July 16	Husan	P	16 22 02.4		± 66			12.8		2 50.4	1644	(m) Tōkyō gives
		Taiikyū	P	22 10.7							2 42.0	1550	λ=120.°9E,
		Zinsen	iP	22 16.5	- 22	- 40		5.7	6.1		2 45.8	1597	φ=24.°6N.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Keizyō	P	^h 16 ^m 22 ^s 20.3	- 21	+ 30		6.9	5.8		^m 2 ^s 36.2	1490	Taihoku gives λ=120.°4E, φ=24.°4N. Felt over wholl Formosa. Losses of lives 44, damages 1734 in Sintiku province.
		Heizyō	P	22 25.2							2 55.5	1695	
		Taihoku		16 19 13.2	+4200	-3100	+600	1.5	3.1	1.1	11.9	83	
		Naha		20 38.2							1 26.9	799	
		Nase		21 05.8							2 45.0	1535	
		Nagasaki		21 46.3	- 11	- 26	+ 7	3.9	4.8	4.8	2 22.4	1344	
		Hukuoka		21 58.2	± 31	- 94		11.9	12.5		3 43.5	2297	
		Oosaka		22 30.3	+ 31	+ 20		4.0	3.6		3 08.6	1826	
		Hamamatu		23 05.4							4 00.0	2440	
		Tokyō		23 45.							3 57.0	2400	
		Pafau		23 56.9							3 50.8	2228	
		Zi-ka-wei	e	16 20 39							(1 16)	700	
		Nanking	iP	20 50							1 37	950	
		Manila	P	21 24							1 46	1000	
		Chiufeng	iP	22 44							3 19	2020	
		Amboina	P	25 01									
		Medan	iP	25 12							10 36	9510	
		Batavia	iP	25 43									
		Uccle	iP	31 42							(10 50)	9320	
		Florissant	iP	33 32									
Saint Louis	eIP ₁	38 07											
La Paz	iP	39 03											
Madagascar	e(S)	42 15											
92	July 16	Husan	eI.	20 12 23.9								Probably in the Philippine deep. Felt in N Moluccas and N Celebes by Manila.	
		Amboina	iP	20 00 13						1 10	650		
		Manila	iP	03 57						1 33	860		
		Batavia	iP	05 32						3 58	2530		
		Medan	P	06 32									
		Zi-ka-wei	P	06 43						4 54	3155		
		Nanking	iP	06 53						5 53	4370		
		Chiufeng	iP	03 04									
		Uccle	e	25 32									
93	July 19	Husan	eP	0 52 07.6		+ 228			15.9	2 02.4	1144		(r) Tokyō gives λ=141.°3E, φ=36.°65N. Kasimanada, Seismic Intensity V, Onahama, IV, Tukubasan, III, Tyōsi, Mito, Kakioka, Sendai, II, Tokyō, Isinomaki, I Hakodate, I Kusiro, Misima. U. G. E. G. I. gives λ=144°E, φ=29.°5N. Saint Louis H=0 ^h 49 ^m 56 ^s Depth=180km.
		Taikyū	iP	52 21.7						2 00.0	1120		
		Zinsen	eP	52 38.3	± 112	± 342	± 380	13.0	20.0	20.7	2 24.0	1360	
		Keizyō	iP	52 44.9							2 11.2	1230	
		Heizyō	P	52 52.3							2 18.3	1300	
		Onahama		0 49 58.6							06.3	47	
		Mito		50 03.9	-6250	-7500	-3000	5.6	3.2	1.9	10.4	77	
		Kakioka		50 05.7	+1744	+2670	+2470	4.7	1.0	2.0	13.7	102	
		Tōkyō		50 06.3	±4000	±4500	±3000	3.7	3.2	5.0	16.1	120	
		Misima		50 26.7	+2200	+2500	- 600	3.1	3.7	2.5	25.1	187	
		Hamamatu		50 45.6	-2800	-2920	- 310	3.6	5.1	2.5	49.2	366	
		Nagoya		50 49.7	-1990	+2590	- 950	2.5	2.5	2.5	53.0	393	
		Oosaka		51 04.2	-1110	+ 806	+ 413	2.9	3.6	2.0	1 04.7	480	
		Kōbe		51 09.8	+ 290	+ 317	- 260	4.0	2.9	2.6	1 09.4	516	
		Sapporo		51 24.9	- 262	+ 312	- 109		2.2	3.1	1 15.8	563	
Ōtomari		52 05.7			± 500		23.9		3 35.	2135			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks			
				N	E	Z	N	E	Z						
94	July 23	Taihoku	h m s 0 54 25.7	μ	± 180	μ	s	s	15.0	s	m s 4 07.8	km 2537			
		Palau	55 56.6								4 53.4	3221			
		Zi-ka-wei	P 0 53 50								3 28	2089			
		Nanking	eP 54 10								4 01	2435			
		Chiufeng	P 54 16								3 41	2265			
		Manila	P 55 51								6 13	4600			
		Batavia	iP 59 07								7 36	6070			
		Prague	eP 1 02 09	31	31		16	18			10 10	3770			
		Uccle	eP 02 21	- 49	+ 47		26	20.5			10 30	9430			
		Saint Louis	eP 02 50								10 52	10270			
		Florissant	eP 02 49								10 52	10270			
		La Paz	iP 09 29	- 19	+ 19	+ 25	22	20	26			16950			
		Madagascar (SS)	22 09									11860			
		95	July 26	Husan	P 18 02 02.7								56.0	482	(m) Tōkyō gives
				Taikyū	eP 02 08.9								1 07.0	497	λ=134.°1E, φ=35.°5N, I Hamamura, Tottori Prefecture.
Okayama	18 00 42.6			± 900	± 2100						10.8	80	Seismic Intensity		
Sakai	00 59.7			+2475			1.7				9.6	71	II Okayama, Sakai, Kōbe.		
Kōbe	01 10.0			+ 145	+ 169	+ 112		0.8	1.1		16.1	120	I Kyōto, Osaka.		
Kyōto	01 14.5			+ 268	+ 116	+ 82	1.5	1.3	1.7		19.2	142			
Osaka	01 15.5			- 132	- 158	+ 44	2.4	2.4	1.9		20.2	150			
Hamada	01 16.8			+ 73	+ 30	- 20	3.9	1.9	3.0		23.1	172			
Siomisaki	01 20.9			+ 28	+ 30	- 18	1.3	2.5	1.3		30.4	226			
Nagoya	01 33.6			+ 157	- 105	± 38	2.4	1.2	1.4		30.6	223			
Tōkyō	01 46.7										56.5	420			
Hukuoka	01 48.2										49.1	365			
Chiufeng	eL 13 33 22														
Nanking	eL 03 —														
95	July 26			Taikyū	P 8 07 12.5								2 59.4	1736	(m) Tōkyō gives
		Husan	eP 07 17.7								2 59.3	1253	λ=147.°2E, φ=47.°5N, Depth=350km, SE off Kitasireto- komisaki.		
		Keizyō	eP 07 17.0								2 54.0	1585	Seismic Intensity		
		Heizyō	eP 09 59.8										II Kusiro.		
		Ōtomari	8 04 45.7		± 285						52.0	386	I Urakawa, Aomori.		
		Nemuro	04 58.2	+ 68	- 91	- 40	2.8	2.3	1.2	1 02.7	465				
		Sapporo	05 07.2	- 149	- 164	- 81	2.9	2.3	1.9	1 03.4	471				
		Aomori	05 31.4	- 203	+ 292			2.9		1 29.2	662				
		Sendai	05 57.0	+ 147	- 95	+ 29	4.3	1.8	1.8	1 48.5	805				
		Niigata	06 08.5	± 165	± 300		2.9	2.7		2 01.0	1120				
		Kakioka	06 20.4	+ 20	+ 18		4.6	5.4							
		Wazima	06 20.9	± 71	± 50					2 10.9	1229				
		Tōkyō	06 25.4							2 20.	1320				
		Misima	06 36.5	- 40	- 35		3.6	2.8		2 23.5	1355				
		Nagoya	06 41.2	+ 30	+ 21	- 4	3.1	2.9	1.8	2 25.8	1387				
Kōbe	06 52.6	+ 12	- 6	- 4	6.2	2.9	4.6	2 26.0	1490						
Chiufeng	P 8 07 57								3 25	2050					
Nanking	eP 03 29								3 53	2345					
Uccle	eP 14 40								(10 23)	9250					
Florissant	eP 15 02								9 27	8140					

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks					
				N	E	Z	N	E	Z								
96	July 26	Saint Louis	eP	h	m	s	μ	μ	μ	s	s	s	m	s	km	Tibet.	
		Batavia	P	15	03									9	23		3040
		Heizyō	P	10	37	02.1								3	50.4		2220
		Zinsen	eP	37	06.0									4	02.2		2462
		Keizyō	P	37	12.0									4	00.0		2440
		Husan	P	37	26.0									4	23.9		2744
		Taikyū	P	37	26.9									4	15.0		2625
		Chiufeng	eP	10	35	29								2	47		1530
		Nanking	iP	35	52									2	56		1665
		Zi-ka-wei	P	36	26									3	26		2067
		Medan	iP	38	27									4	54		3320
		Batavia	P	39	54									6	07		4560
		Prague	e	51	07												
		Uccle	e	52	38												
		Madagascar	e	58	23												
97	July 27	Keizyō	iP	10	16	50.5							3	03.8	1790	Gulf of Tartary.	
		Husan	iP	16	55.9									3	06.4		1814
		Chiufeng	iP	10	17	39								3	35		2200
98	July 28	Nanking	P	18	03												
		Taikyū	P	14	44	07.5											
99	July 29	Husan	iP	44	29.2								17.1	134	Felt at Eidsmen, Keizanri, Tyūsei-hokuridō, Tyōsen.		
		Keizyō	P	4	17	51.9								4	58.0	3215	
100	July 29	Husan	eP	17	56.7									3	12.2	1878	
		Taikyū	P	18	08.7										3	17.2	1922
		Chiufeng	P	4	19	45									4	16	2690
		Medan	eP	21	00										6	53	5290
		Batavia	iP	21	04										7	21	5780
		Uccle	e	36	—												
		Husan	P	7	49	47.7									9	02.1	7642
		Taikyū	P	49	54.9										9	07.2	7740
		Keizyō	P	50	02.2										5	02.6?	2270?
		Zinsen	iP	50	02.9										3	23.8	3016
		Apia	iP	7	41	07									1	29	820
		Honolulu	eP	46	42												Manila gives λ=175°W, φ=18°S.
Ambōina	iP	47	36										7	03	5460		
Manila	iP	49	16										8	30	6965		
Malabar	P	49	35										8	54	7540		
Batavia	iP	49	37										3	53	7520		
Zi-ka-wei	e	50	06												H=7 ^h 38 ^m 47 ^s , Depth=490km.		
Ukiah	eP	50	10										9	26	8950		
Pasadena	iP	50	10										9	30	8990		
Berkeley	iP	50	12										9	21	9300		
Tue-ou	eP	50	35										9	47	9420		
Sitka	iP	50	42														
Chiufeng	P	50	43										9	40	9370		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
101	Aug. 1	Florissant	ip ^{h m s} 7 51 55							11 05	11380			
		Saint Louis	ep ^{h m s} 51 56							11 05	11290			
		Georgetown	ep ^{h m s} 52 42											
		Philadelphia	ep ^{h m s} 52 46							11 51	12610			
		San Juan	ep ^{h m s} 52 05											
		Pennsylvania	e ^{h m s} 55 28											
		Charlottesville	(ep ^{h m s} R ₁) 57 20											
		Uccle	ep ^{h m s} 57 39									17000		
		Prague	i ^{h m s} 57 51											
		Madagascar	ip ^{h m s} 58 24									13220		
		Husan	ep ^{h m s} 14 11 42.6								4 16.6	2646	Manila gives	
		Taikyû	p ^{h m s} 11 51.6								4 16.8	2648	λ=126°25'E, φ=10°20'N,	
		Zinsen	ep ^{h m s} 11 54.4								4 12.4	2594	In Philippine deep.	
		Keizyô	ep ^{h m s} 12 07.								4 21	2840	Felt strongly in Samar.	
	Manila	ip ^{h m s} 14 07 59								1 04	770			
	Zi-ka-wei	ip ^{h m s} 11 03								3 42	2267			
	Nanking	ip ^{h m s} 11 25								4 00	2420			
	Malabar	p ^{h m s} 12 19												
	Chiufeng	ip ^{h m s} 12 38								4 53	5190			
	Medan	p ^{h m s} 13 24												
	Uccle	(e) ^{h m s} 20 18												
	Prague	ep ^{h m s} ? 31.3												
	Florissant	ep ^{h m s} 26 53								6 53	5190			
	Madagascar	e ^{h m s} 43 49												
	102	Aug. 3	Husan	p ^{h m s} 1 18 02.6								6 35.6	4877	U. S. C. G. S. gives
			Zinsen	ip ^{h m s} 18 02.9	+ 310	± 429	+ 680	12.9	12.4	12.7	6 25.2	4687	λ=96°E, φ=5°N.	
			Keizyô	p ^{h m s} 18 05.0	+ 24	+ 25		12.6	12.0		6 25.8	4705		
			Taikyû	p ^{h m s} 18 07.1	—	—					6 30.7	4789	U. G. E. G. I. gives	
Heizyô			p ^{h m s} 18 10.2	± 28	+ 28		12.0	13.5		6 23.8	4755	λ=95.°5E, φ=5°N.		
Medan			ip ^{h m s} 1 10 38								3 21	2040		
Batavia			p ^{h m s} 13 22								3 54	2420?	Manila gives	
Nanking			ep ^{h m s} 15 25								5 26	3660	λ=90°E, φ=10°N,	
Manila			ip ^{h m s} 15 41								4 59	3410	Felt in north Sumatra with intensity W.	
Amboina			ip ^{h m s} 16 23								5 02	3440		
Zi-ka-wei		e ^{h m s} 16 53								5 45	4144	Batavia gives		
Chiufeng		ip ^{h m s} 12 33								5 00	2190	λ=94°E, φ=7°N.		
Madagascar		p ^{h m s} 19 20								7 29	5990			
Prague		p ^{h m s} 22 21								10 03	3850			
Uccle		ep ^{h m s} 22 52									10000			
Apia		ep ^{h m s} R ₁ 27 04												
Florissant		ip ^{h m s} 29 27												
Saint Louis		(ip ^{h m s}) 29 34												
103		Aug. 3	Taikyû	ep ^{h m s} 11 50 42.3								4 25.7	2767	Manila gives
			Zinsen	e ^{h m s} 52 20										λ=123°15'E, φ=11°15'N.
	Apia	ep ^{h m s} 11 28 48								20	148			
	Amboina	ep ^{h m s} 49 19								2 38	1530			
	Nanking	p ^{h m s} 50 07								4 02	2455			
	Batavia	ip ^{h m s} 50 56								4 36	3020			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
104	Aug. 7	Chiufeng	P	h m s 11 51 23	μ	μ	μ	s	s	s	m s 4 53	km 2190	Aftershock of No. 102.	
		Husan	e	12 05 26.6										
		Taikyû	eP	28 03.9										
		Zinsen	e	30 —										
105	Aug. 8	Nanking	eP	12 22 20							4 29	2800	North China,	
		Chiufeng	e	23.1										
106	Aug. 8	Keizyô	eP	14 29 47.1									945	
		Chiufeng	eP	14 27 08							1 36			
106	Aug. 17	Husan	eP	1 55 43.9							9 17.0	7940	J. S. A. gives λ=171.°5E, φ=20°S, H=1h 44m 57s, Depth=120km,	
		Taikyû	P	55 51.0							7 26.2	5810		
		Keizyô	P	56 01.2							5 41.6	3910		
		Zinsen	iP	56 01.8	+ 8		+ 30	3.8		4.7	9 22.5	8248		
		Apia	eP	1 48 48							3 52	2340	U. S. C. G. S. gives λ=172°E, φ=20°S, Loyalty Is.	
		Amboina	iP	52 55							6 47	6030		
		Manila	iP	54 52							8 52	7235		
		Batavia	iP	55 08							(8 25)	6920		
		Malabar	P	55 09							8 34	6900		
		Zi-ka-wei	eP	55 54										
		Nanking	iP	56 03							8 53	7310		
		Medan	P	56 22							9 39	8210		
		Chiufeng	iP	56 45							10 09	6980		
		Ukiah	eP	57 15										
		Pasadena	iP	57 18							10 30	9550		
		Berkeley	iP	57 19							10 22	9450		
		Tucson	eP	57 45										
		Florissant	eP	59 11							12 00	12040		
		La Paz	eP	59 34										
		Saint Louis	e	2 01 13								(12000)		
Prague	eP	04.1												
Uede	eP	04 13								(17000)				
Madagascar	L	23 54												
107	Aug. 13	Taikyû	eL?	4 23 56.4									?	
108	Aug. 23	Husan	e	14 06 19.1									Felt in south-western Sumatra.	
		Zinsen	eP	06 19.9							7 12.4	5738		
		Taikyû	eS	12 28.2										
		Keizyô	eS	13 31.			± 2			16.0				
		Batavia	iP	13 59 05							1 37	790		
		Malabar	iP	59 21							1 37	910		
		Medan	P	14 00 03							(1 56)	1100?		
		Manila	P	03 24							5 22	3770		
		Amboina	P	03 31							4 53	3400		
		Zi-ka-wei	e	05 22										
		Nanking	iP	05 24							6 20	4235		
		Chiufeng	P	06 10							6 50	5200		
		Madagascar	eP	07 27							7 33	5860		

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
					N	E	Z	N	E	Z				
114	Aug. 21	Taikyū	P	h m s 17 44 09.5	μ	μ	μ	s	s	s	m s 3 47.0	km 2280	Felt at Guinan and Tacloban with intensity V. Samar Island, by Manila.	
		Husan	P	44 12.6							3 21.0	2090		
		Keizyō	eP	44 13.0							3 44.7	2260		
		Zinsen	eP	44 14.9							3 37.7	2167		
		Manila	iP	17 17 51							1 13	700		
		Nanking	P	21 15							3 58	2400		
		Chiufeng	iP	45 22							4 34	2920		
		Zi-ka-wei	eP	45 35							4 56	3378		
		Uccle	P	52 11										
		Florissant	e(P)	52 19							10 00	8790		
Prague		18 13.5												
115	Sept. ?	Husan	eP	11 01 43.9							3 12.6	1884	Off Miyakojima.	
		Keizyō	eP	02 23.3							1 18.7	717		
		Taikyū	eP?	02 33.8										
		Zinsen	eP?	02 05.6										
		Zi-ka-wei	e	10 58 40							1 16	690		
		Nanking	P	59 04							1 53	1170		
		Chiufeng	eP	11 00 30							3 11	1935		
		Manila	P	01 29							1 45	990?		
		Uccle	eL	42 —										
116	Sept. 4	Husan	iP	1 41 07.3	- 288			12.9			2 40.3	1538	(m) Tokyō gives λ=121.°6E, φ=22.°4N, Slight damage in SE of Taitō, Formosa.	
		Taikyū	iP	41 15.1							2 52.3	1663		
		Zinsen	iP	41 26.2	+ 335	- 258	- 279	13.6	12.7	12.0	2 56.7	1707		
		Keizyō	P	41 27.9	- 214	+ 36		13.0	6.0		2 59.4	1730		
		Keizyō	P	41 44.9							3 12.6	1390		
		Kōsyun		1 37 54.7	+9570	-8750	±3900	4.0	6.2		07.6	57		
		Kareukō		38 11.8	+7300	+6400	-5000	2.5	2.5	2.5	20.5	152		
		Taihoku		38 26.0	-1740	+2650	+500	4.0	3.4		21.3 23.2 33.6	232 223		
		Isigakizima		38 31.1	- 406	+ 306		5.0	5.0		46.9	348		
		Naha		39 21.9							1 11.8	653		
		Nase		39 54.8	+ 37	- 41	+ 19	9.2	6.5	9.9	2 37.5	1505		
		Nagasaki		40 45.0	+ 67	- 40	+ 5	14.3	14.9		2 19.9	1319		
		Kōbe		41 48.9	+ 25	- 75	± 4	27.0	11.3	16.0	3 21.1	1931		
		Nagoya		42 03.4	- 79	+ 70	- 10	3.1	3.5	3.6	3 39.7	2196		
		Palau		42 11.3		+ 40				8.3	3 41.	2210		
		Tokyō		42 25.6	+ 109	+ 112	- 43				4 03.3	2482		
				Manila	iP	1 39 37						1 21		950
				Zi-ka-wei	iP	39 50						2 03		1210
				Nanking	iP	40 21						2 00		1190
		Chiufeng	iP	41 53						3 32	2165			
		Madagascar	iP	50 09						10 10	9250			
		Uccle	eP	50 22	- 110	+ 74					9900			
		La Paz	iP'	57 51	+ 13	+ 17	+ 14							
117	Sept. 4	Husan	iP	3 31 25.3							2 44.5	1578	Aftershock of No. 116. Tokyō gives λ=121.°4E, φ=22.°4N.	
		Taikyū	P	31 32.0							3 00.0	1745		
		Zinsen	eP	31 40.0							2 59.6	1739		
		Keizyō	eP	31 46.0							2 59.7	1745		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		La Paz	P	h m s	μ	μ	μ	s	s	s	m s	km	I. S. A. gives λ=113.°3W, φ=23°S, H=14 ^h 09 ^m 10 ^s , Depth=110km.
		Apia	eP	13 48							6 31	4750	
		Pasadena	iP	19 13							7 49		
		Saint Louis	eP	20 07							8 09	6600	
		Florisant	epP	20 36							9 06	7780	
		Chiufeng	P	23 31								14890	
		Amboina	eP	29 21							10 54	10100	
		Zi-ka-wei	e	30 42									
		Nanking	eP	31 00							10 44?	9630	
		Batavia	P	31 33									
		Medan	eP	32 13									
		Uccle	e	40 —									
124	Sep. 16	Taikyû	eP	20 57 45.2									Tôkyô gives λ=140.°5E, φ=26.°0N.
125	Sep. 18	Husan	P	8 26 57.7							3 33.7	2117	(r) Tôkyô gives λ=142.°8E, φ=42.°0N, SW off Urakawa. Seismic Intensity IV Urakawa, Obihiro, III Kusiro, Sapporo, Aomori, Hakodate, II Asahikawa, Mi- yako, Morioka, I Haboro, Nemuro.
		Keizyô	P	26 59.6							2 20.8	1440	
		Zinsen	eP	27 02.2							2 16.7	1287	
		Heizyô	P	27 07.5									
		Taikyû	iP	30 24.8							1 43.5	768	
		Urakawa		8 24 02.5									
		Kusiro		24 09.6							20.7	152	
		Obihiro		24 13.3							11.7	87	
		Haboro		24 18.7									
		Sapporo		24 20.8	-5850	+8600	-603	2.9	2.9	3.1	21.2	158	
		Asahikawa		24 26.5	+1840	-1840					22.9	170	
		Aomori		24 23.8	-4850	-2500		4.7	4.1		26.8	199	
		Nemuro		24 29.1	-306	-244		1.3	1.3		29.0	215	
		Miyako		24 31.5	-484	+568		2.9	4.0		31.6	235	
		Morioka		24 38.4	± 385	+ 556	± 210	3.0	3.0	2.9	34.6	257	
		Sendai		24 57.7	-292	-298	-195	4.0	4.8	4.7	58.2	432	
		Mito		25 22.9	+ 83	+ 34	+ 32	5.0	3.0	2.6	1 17.6	706	
		Tyôsi		25 30.1	- 92	+ 99	+ 16	4.4	4.4	2.4	1 12.7	667	
		Tôkyô		25 32.0	- 463	+ 350	- 165				1 40.4	924	
		Misima		25 44.8	± 240	± 195	± 30				1 39.0	910	
		Hamamatu		25 53.5	+ 112	+ 110	± 20	3.5	3.5	3.0	1 30.6	836	
		Kôbe		26 06.0	- 60	+ 55	+ 15	5.9	5.7	4.4	2 12.7	1247	
		Hukuoka		27 04.4							2 24.8	1272	
126	Sep. 18	Husan	P	8 53 11.0							3 00.2	1748	(m) Tôkyô gives λ=142.°6E, φ=42.°0N, Aftershock of No.125. Seismic Intensity III Urakawa, II Kusiro, Sapporo, Hakodate, Aomori, I Morioka, Miyako.
		Keizyô	eP	53 13.4							2 46.0	1603	
		Zinsen	eP	53 15.5							2 24.9?	1374?	
		Taikyû	P	56 40.7									
		Kusiro		8 50 14.6							19.8	147	
		Urakawa		50 20.4							07.0	52	
		Sapporo		50 42.7	- 457	+ 450	+ 451	2.9	2.2	2.3	21.6	161	
		Morioka		50 52.2	± 175	+ 273	± 67	2.8	2.8	2.9	33.2	247	
		Sendai		51 09.6	- 85	- 109	- 36	2.5	3.1	2.6	58.4	433	
		Tôkyô		44.							1 40.	742	
		Wazima		45.8							1 14.3	551	
		Misima		46.6	± 65	± 40					1 44.4	775	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks				
				N	E	Z	E	E	Z							
		Zi ka wei	e	h	m	s	μ	μ	μ	s	s	s	m	s	km	
		Nanking	iP	5	30	55							6	21	4565	
		Medan	P		31	20							6	16	4700	
		Apia	P		31	29							6	53	5250	
		Chiufeng	iP		21	58							7	17	5680	
		Pasadena	eP		36	50										
		Florissant	eP?		38	11							13	12	13610	
		Madagascar	ePR ₁		41	10									10900	
		La Paz	iP		42	40										
		Prague	ePR ₁		43.0											
		Uccle	e		43.5											
		Denver	ePR ₁		44	26										
131	Sep. 20	Taikyû	eP	21	10	50.2										
		Husan	eP?		15	20.8										
		Amboina	P	21	05	05							2	34	1600	
		Batavia	eP		10	01										
		Manila	P?		10	03							6	41	5080?	
		Nanking	P		12	03							6	36	4845	
		Chiufeng	eP		13	02							6	56	5310	
		Saint Louis	e		13	43										
		Pasadena	iP		17	49										
		La Paz	iP		23	39										
		Apia	e		26	—										
		Uccle	e		34	30										
132	Sep. 21	Husan	eS	12	04	05.4										Off Tanegashima.
133	Sep. 22	Taikyû	eP	9	26	05.0							5	18.6	3524	J. S. A. gives
		Zinsen	eP		26	18.9							6	40.4	4963	λ=140.°5E,
		Keizyô	eP		26	21.4							6	28.0	4735	φ=4.°3N,
		Husan	e		27	28.8										II=9 ^m 18 ^m 03 ^s .
		Amboina	P	9	21	37							3	01	1790	U. S. C. G. S. gives
		Manila	iP		24	10							6	09	4335?	λ=142°E,
		Batavia	eP		25	15										φ=1.°5S,
		Zi ka wei	e		26	00										New Guinea.
		Nanking	P		26	11							6	27	4680	
		Medan	P		26	31							6	22	4960	
		Apia	eP		26	40							7	06	5430	
		Chiufeng	iP		27	11							7	11	5580	
		Pasadena	eP		31	58										
		Florissant	eP?		33	25							12	58	13150	
		Saint Louis	eP		33	42									13620	
		Prague	e		36	22										
		Denver	eP		36	29										
		La Paz	iP		37	51									16300	
		Uccle	PP		38	43									13380	
		Madagascar	eS		42	10									10435	
134	Sep. 24	Zinsen	eS?	16	44	25										WSW off Hatizyo-zima.

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks	
				N	E	Z	N	E	Z				
		Prague	P	5 44 53	-	2				9 52	8480		
		Uccle	iP	45 08						10 01	8760		
		Florissant	iP	45 21						10 16	9210		
		Saint Louis	iP	45 23						10 15	9170		
		La Paz	iP	52 25									
139	Oct. 2	Taikyû	iP?	9 28 54.6						1 02.1?	561?	(m) Tôkyô gives	
		Husan	eP	29 08.2						51.7	382	λ=130.7°E,	
		Zinsen	eP?	29 12.2						1 23.8?	830?	φ=31.°N,	
		Keizyô	eP	29 23.8						1 41.0	810	Depth=120km, Off Satamisaki, Kagosima Prefecture.	
		Kagosima		9 28 05.7	+ 632	+ 570				16.2	121	Seismic Intensity	
		Miyazaki		28 09.9	+ 184	- 100	+ 60	0.7	0.8	0.8	20.0	148	II Okayama, Simidu, I Miyazaki, Tadotu, Kôti.
		Nagasaki		28 14.8	- 175	- 175	- 29	2.3	2.1	1.6	18.5	138	
		Simidu		28 25.6	- 171	- 152	- 55				21.2	222	
		Nase		28 30.0	± 14	± 17	± 9	0.6	0.6	0.4	32.2	240	
		Okayama		28 47.9	± 50	± 58					49.0	364	
		Siomisaki		28 56.4	- 5	- 2	- 8				56.5	420	
		Gihu		29 22.9	+ 12	+ 22	+ 9	0.8	1.3	0.8			
		Tôkyô		20 00.9							1 43.	264	
		Nanking	P	9 30 05									
		Chiufeng	i	32 56									
140	Oct. 4	Keizyô	eP	5 23 11.8						2 52.0	1600	Manila gives λ=125°E, φ=6°20'N, H=5 ^b 15 ^m 29 ^a , Depth=400km, Banda sea.	
		Zi-ka-wei	e	5 14 54									
		Manila	iP	17 46						1 45	985		
		Amboina	iP	17 54						1 47	1000		
		Batavia	iP	19 54						3 33	2170		
		Malabar	eP	19 55						3 48	2360		
		Medan	iP	20 35						4 04	2570		
		Nanking	iP	20 40						4 04	2480		
		Chiufeng	P	21 49							3335		
		Pasadena	iP	26 14									
		La Paz	eP	29 36									
141	Oct. 8	Keizyô	e	9 36 20.								Russian Turke-tan, Central Asia.	
		Taikyû	eI?	42 35.3									
		Zinsen	eS?	42 42.									
		Husan	eI	44 40.9									
		Chiufeng	e	9 25 59									
		Nanking	P	26 42									
		Zi-ka-wei	e	27 00									
		Uccle	e	27.7									
		Manila	P	28 08						7 10	5590		
		Prague	eP	28 27						7.2	(5670)		
		Medan	eP	28 26						6 35	5000		
		Batavia	P	31 33									
		Pasadena	e	37 00									
		La Paz	eP	42 23							17500		

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks				
				N	E	Z	N	E	Z							
142	Oct. 11	Husan	eP	h m s 22 23 39.6	μ	μ	μ	s	s	s	m s 6 17.3	km 4546	Manila gives λ=145°E, φ=1°N, New Guinea.			
		Taikyū	eP	23 47.6												
		Zinsen	eP	24 02.9							6 35.5	4375				
		Ke'zyō	eP	24 04.3							6 34.4	4345				
		Amboina	P	22 19 22												
		Manila	P	21 58							5 02	2280				
		Batavia	P	23 09												
		Zi ka wei	e	23 38							6 20	4722				
		Nanking	P	22 57							6 34	4300				
		Medan	P	24 24							6 25	4860				
		Chiufeng	P	26 49							7 09	5525				
		Pasadena	eP	29 31												
		La Paz	P	35 35								17550				
		Florissant	ePR ₁	35 56								11100				
		U. cle	eP	36 35												
		Madagascar	e	39 47												
Prague	e	45 31														
143	Oct. 12	Husan	P	16 48 20.5		+ 362					12.8	2 55.8	1698	(r)Tōkyō gives λ=143.3°E, φ=+0.4°N, NE off Miyako. Seismic Intensity III Miyako, Morioka, Aomori, Hakodate. II Kuro, I. Urukawa, Sendai, Nemuro, Kakioka.		
		Taikyū	iP	48 22.2									2 51.5		1655	
		Zinsen	eP	48 26.7	+ 407	- 769	± 750	13.4	15.6	12.8			2 33.9		1679	
		Keizyō	eP	48 27.3												
		Heizyō	P	48 38.0	± 20	± 20		12.5	15.0				3 30.0		1780	
		Miyako		16 45 36.8	-1340	+1336		2.0	2.1				15.8		117	
		Morioka		45 48.5	NE1800	SE1400	- 510	2.0	3.0	2.5			22.2		165	
		Akita		46 04.6	-9500	+4000		2.4	1.2				24.0		178	
		Sendai		46 08.4	+3980	-2640	- 424	12.8	15.7	1.6			37.5		279	
		Sapporo		46 11.7	+2500	±500	- 920	2.9	2.7	2.0			36.0		267	
		Nemuro		46 14.3	+ 360	- 220	+ 182	2.8	3.2	3.7			45.0		324	
		Mito		46 29.4	- 592	+ 604	- 432	2.4	2.3	2.0			38.0		282	
		Tōkyō		46 41.6	+ 642	- 778	+ 410	2.2	3.4	4.5			1 11.		527	
		Wazima		46 47.8	- 225	- 242	- 88	2.0	1.8	2.5			1 09.4		516	
		Misima		46 52.5	± 362	± 385	- 131	2.5	3.0	3.0			1 28.5		657	
		Otomari		47 04.5	± 175	± 100		2.1	3.0				1 00.		445	
		Gihu		47 07.8	- 178	- 92		4.9	2.2				1 32.4		632	
		Kōbe		47 23.2	+ 245	+ 270	- 21	7.8	8.6	2.1			1 50.2		1023	
		Hukuoka		48 13.9		- 226				14.3			2 27.1		1401	
		Miyazaki		48 23.8	- 480	- 700	+ 400	14.6	14.1	12.5			2 55.5		1695	
		Nagasaki		48 20.0	- 86	+ 87		17.1	11.4				2 34.0		1470	
		Fuzizima		48 35.8	- 17	- 26	- 5	10.5	12.0	2.4			2 30.2		1472	
		Naha		49 45.8									3 41.2		4979	
		Taihoku		50 34.6	± 440	± 557	± 380	14.4	15.	13.7						
		Zi-ka-wei	P	16 49 50									3 59		2522	
		Chiufeng	P	49 59									3 49		2355	
Nanking	P	50 04									4 03	2520				
Manila	P	51 50									4 57	3320				
Amboina	P	53 41									6 41	5100				
Batavia	P	55 08									8 09	6670				
Pasadena	iP	57 02									9 36	6600				
Prague	eP	57(23)		97	34						(10 09)	8350				
Uccle	P	57 46		- 84	- 132			18.5	22.		10 18	9160				

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks	
				N	E	Z	N	E	Z	m	s			
114	Oct. 12	Florissant	e(P) 16 58 16	μ	μ	μ	s	s	s	m	s	km	(r) Tôkyô gives λ=143.°2E, φ=40.°2N, NE off Miyako. II Morioka, Hakodate, Aomori, I Kusiro, Miyako, Obihiro, Urakawa, Nemuro.	
		Saint Louis	e(P) 58 19							10	24	9630		
		La Paz	P 17 05 05	+ 32	- 28				21	21				16200
		Zinsei	eP 17 03 21.4	+ 125	- 207	- 250	13.4	15.7	15.8	3	06.2	1812		
		Husan	eP 03 28.5							1	51.8	1033		
		Keizyô	P 03 36.3											
		Taikyû	P 04 28.1											
		Miyako	17 00 49.4	- 50				2.6			17.0	126		
		Morioka	00 56.8	± 775	± 770	- 210	3.0	3.0	2.7		23.2	173		
		Aomori	00 57.5	+2500	-2100		2.6	2.6			25.9	193		
		Mizusawa	01 00.	-2380	+ 470		2.6	0.8			24.	178		
		Akita	01 07.9	+1500	±1000	+ 355	2.4	2.4	2.6					
		Sendai	01 16.8	+1210	- 810	- 100	17.8	17.8	3.7		26.3	269		
		Nemuro	01 16.8	- 121	- 99	+ 57	3.2	3.8	2.8		37.0	275		
Sapporo	01 20.2	+2500	+3050	+ 260	2.8	2.5	3.1		40.8	303				
Kakioka	01 37.	+ 69	+ 94	+ 25	0.7	0.9	5.1		55.	408				
Wazima	01 52.6	+ 58	- 67					1	23.6	621				
Tôkyô	01 52.9	+ 216	+ 209	- 95	5.0	4.9	4.1		1 20.5	598				
Misima	02 00.	+ 85	+ 162		3.0	4.0			1 23.6	621				
Gihu	02 12.5	- 42	+ 22		4.7	2.0			1 47.2	796				
Kôbe	02 21.8	+ 89	+ 40	+ 10	11.0	11.0	16.0							
Koti	03 02.	± 200	± 220	± 100	19.	16.5	14.		2 56.	1700				
Miyazaki	03 27.2	+ 300	- 140		18.0	16.0			2 46.0	1600				
115	Oct. 12	Husan	P 18 17 07.2									(m) Tôkyô gives λ=143.°0E, φ=40.°1N, off Miyako. Seismic Inten-ity II Aomori, I Miyako, Morioka, Hakodate, Kusiro, Nemuro		
		Taikyû	P 17 11.9											
		Zinsen	eP 17 19.3							3	08.4		1834	
		Keizyô	eP 17 19.9											
		Heizyô	iP 17 33.3											
		Miyako	18 14 27.3	+ 330	+ 380		1.5	1.5			12.3		91	
		Morioka	14 29.8	+ 267	± 280	- 82	2.9	2.9	3.0		22.3		165	
		Aomori	14 45.1	+1600	+1000		2.1	2.1			35.9		267	
		Sendai	14 56.6	- 222	+ 163	± 72	2.2	3.5	2.4		34.6		257	
		Nemuro	15 04.8	- 88	+ 56		2.5	3.0			39.0		289	
		Sapporo	15 05.1			+ 96			2.4		39.0		289	
		Kakioka	15 17.9	+ 35	- 45	+ 12	3.5	3.0	3.3		54.7		406	
		Tôkyô	15 21.4	- 129	+ 166		3.9	3.9		1	10.7		524	
		Wazima	15 26.8	+ 69	+ 63		2.9	2.5		1	16.3		566	
		Misima	15 41.7	+ 70	- 68		2.8	2.8		1	21.4		604	
		Gihu	15 51.2	+ 31	+ 12		3.8	2.6		1	36.7		717	
		Kôbe	16 14.3	- 32	+ 28	- 14	5.7	7.8		1	51.3		826	
		Hukuoka	17 06.0											
		Miyazaki	17 10.8	- 50	+ 60		15.0	16.0		2	45.5		1590	
		Chiufeng	iP 18 18 51							3	48		2345	
		Nanking	P 18 52							4	44		3010	
Manila	P 21 24							5	04	3490?				
Pasadena	e 25 49													
Prague	e 37.9			2		19	19							

No.	Date	Station		G. M. T.	Max. Amplitude			Period			Duration of P-S	Δ	Remarks
					N	E	Z	N	E	Z			
		Medan	iP	^h 14 ^m 33 ^s 02									
		Batavia	eP	36 58									
		Malabar	i	38 59									
		Zi-ka-wei	e?	39 31									
		Chiufeng	eP	40 17						6 05	4410		
		Nanking	P	45 14						2 38	1480		
149	Oct. 18	Husan	P	0 14 53.3		+ 750			25.2	3 21.2	1932	(r) Tōkyō gives	
		Zinsen	eP	15 02.9	+ 438	- 557	- 700	13.6	12.7	14.0	2 50.0	1642	λ=143.°8E,
		Taikyū	P	15 05.8							2 25.7	1386	φ=40.°2N,
		Keizyō	eP	15 06.3							2 34.1?	1470	NE off Miyako.
		Heizyō	P	15 15.8	± 40	- 24		12.0	12.8		2 49.5	1635	Seismic Intensity
		Miyako		0 12 24.5	-1392	+1144		1.7	1.9		26.8	199	III Aomori, Miyako,
		Aomori		12 34.1	+7600	+6000		3.6	3.0		36.8	273	Hakodate, Mizusawa,
		Akita		12 45.2	±7500	-4950		2.4	2.4		33.5	293	Morioka,
		Sendai		12 45.4	-3530	+3570	+ 838	19.5	18.2	5.9	46.8	347	II Akita, Sendai,
		Nemuro		12 46.5	- 189	+ 249	+ 225	2.3		5.0	45.1	335	I Kusiro, Urakawa,
		Sapporo		12 46.9	-6300	+5500	+ 611	3.0	2.5	3.3	29.8	221	Obihiro, Asahikawa,
		Kakioka		13 12.1	- 416	- 412	- 93	1.2	4.9	3.8	1 11.4	530	J. S. A. gives
		Tōkyō		13 23.8			+ 322			3.9	1 34.	698	λ=147°E,
		Misima		13 34.7	>+750	>+850	± 300				1 32.6	638	φ=43.°8N,
		Kōbe		13 58.8	+ 420	+ 360	+ 97	6.0	8.6	6.0	2 03.1	914	H=0h 12m 34s,
		Hukuoka		15 01.6	± 62	+ 302		12.3	13.4		2 54.2	1682	Depth=80km.
		Taihoku		17 12.0	± 370	± 410	± 300	15.4	16.8	16.5	4 32.0	2850	
		Zi-ka-wei	eP	0 16 32	135	92	48	12	11	12	4 08	2644	
		Chiufeng	iP	16 37							^{13 39} ^{13 57}	²²⁴⁵ ²⁴⁵⁵	
		Nanking	iP	16 47	36	93	33	13	16	17	4 08	2520	
		Manila	iP	18 30							7 32	3945	
		Batavia	iP	21 46							7 58	6460	
		Pasadena	eP	23 35							9 35	6750	
		Prague	eP	24 09							(9 55)	8500	
		Uccle	P	24 25	- 105	+ 120		23	19				
		Florissant	eP	24 49							10 16	9210	
		Saint Louis	e(P)	25 02							10 17	9240	
		Madagascar	e	30 46									
		La Paz	P	31 50	+ 11	+ 22	+ 16	20	20	20		16200	
150	Oct. 18	Keizyō	eP	5 54 46.4									Off Miyako.
		Zinsen	e	58 30.									
		Chiufeng	eP	5 56 20							3 57	2455	
		Nanking	P	56 31							4 03	2520	
151	Oct. 18	Husan	P	11 10 50.4							3 25.9	2029	Guam Is.
		Taikyū	P	10 58.9							4 31.1	2841	
		Zinsen	eP	11 14.9							3 19.0?	1955?	
		Keizyō	eP	11 17.8							4 46.0	3040	
		Heizyō	eP	11 33.6							4 57.0	3205	
		Manila	iP	11 10 00							3 57	2490	
		Zi-ka-wei	eP	11 00							4 33	3022	
		Nanking	iP	11 23							4 04	2480	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks				
				N	E	Z	N	E	Z							
		Chiufeng	iP	h	m	s	μ	μ	μ	S	S	S	m	s	km	
		Ambonia	iP	11	11	20							5	20	2635	
		Batavia	iP		12	50							4	12	2680	
		Pasadena	iP		18	48										
		Florissant	eP		19	53										
		Prague	e		23.9											
		Uccle	iPP		24	06										
		La Paz	iP'		25	11									17500	
152	Oct. 18	Husan	P	14	56	55.0		± 375			26.1		3	13.2	1892	(m) Tōkyō gives
		Taiikyū	P		56	59.3							1	02.1	561	λ=143.°3E,
		Keizyō	eP		57	03.2	± 100	- 140		14.0	14.0					φ=40.°4N,
		Zinsen	eP		57	04.9	± 7	± 230	± 200	12.7	18.4	13.8	3	00.8	1757	Off Miyako.
		Heizyō	P		53	09.9							3	15.5	1915	Seismic Intensity
		Miyako		14	54	03.3	-1320	- 990		3.3	2.5			20.0	148	II Miyako, Aomori,
		Morioka		54	27.9		- 465	- 421	± 128	6.4	9.0	6.0		25.4	189	I Morioka.
		Mizusawa		54	22.		+2220	+2650	-1680	1.6	1.9	2.0		28.0	208	
		Sendai		54	41.2		- 316	- 414	+ 184	7.1	6.6	3.7		43.7	324	
		Sapporo		54	45.1		±2750	±2050	+ 182	2.7	2.5	2.5		33.1	246	
		Kakioka		55	05.		+ 228	- 144		8.5	6.5		1	01.	453	
		Tōkyō		55	18.1		+ 294	+ 274		6.1	5.7		1	25.	631	
		Misima		55	27.6		+ 119	+ 128	± 45		4.0	2.9	1	38.4	730	
		Gifu		55	41.6		- 72	- 27		5.3	2.8		1	42.2	759	
		Kōbe		56	02.0		+ 102	+ 85	- 16	9.4	7.6	6.4	1	49.8	815	
		Hukuoka		56	52.5			- 91			13.2		2	55.8	1698	
		Taihoku		59	10.2		± 80	± 110		16.2	17.4		4	20.4	2693	
		Chiufeng	iP	11	57	25							3	49	2355	
		Zi-ka-wei	eP		58	27							4	01	2544	
		Nanking	iP		58	46		90			11		4	03	2465	
		Manila	iP	15	00	24							5	22	3780	
153	Oct. 18	Taiikyū	P	21	54	11.0							1	19.2	723	(m) Tōkyō gives
		Husan	P		54	28.3										λ=143.°5E,
		Keizyō	eP		54	35.6							3	04.8	1800	φ=40.°0N,
		Zinsen	eP		54	39.2							2	47.5	1615	Off Miyako.
		Miyako		21	51	53.2	- 838	- 712		3.2	2.2			17.4	129	Seismic Intensity
		Mizusawa			52	05.	+ 845							34.	252	II Aomori, Mizusawa,
		Sendai		52	14.3		- 450	- 464		1.8	1.5			32.9	245	I Miyako, Morioka,
		Hakodate		52	18.1											Hakodate, Kusiro.
		Sapporo		52	18.6		+ 275		+ 98	3.6		2.1		40.3	299	
		Kakioka		52	29.4		- 116	+ 135	+ 26	0.9	0.9	4.0		54.	401	
		Tōkyō		52	48.7		- 200	- 296		3.9	3.9		1	34.2	700	
		Wazima		52	56.5		- 100	- 120	± 41	2.7	2.8	3.0	1	07.3	499	
		Gifu		53	16.7		- 25	+ 27	- 16	2.2	2.2	3.0	1	41.6	754	
		Kōbe		53	39.8		+ 50	- 45	± 8	6.7	7.8	6.0	2	00.5	894	
		Hukuoka		54	25.6								3	01.9	1769	
		Miyazaki		54	31.8		- 100	+ 63		16.2	16.2		2	42.8	1558	
		Taihoku			56	43.										
		Chiufeng	iP	21	55	08							3	44	2300	
		Zi-ka-wei	e		56	03							3	57	2489	

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
174	Dec. 2	Taikyû	eP	h 16 44 25.4	μ	μ	μ	s	s	s	m S	km	Nanking gives λ=120°E, φ=27.°5N, Amami Ôshima.	
		Husan	P	4: 35.6	+ 50	+ 58	- 57	7.2	5.7	7.2	1 54.1	1060		
		Zinsen	eP?	45 09.9							1 32.4	854		
		Keizyô	P	45 20.4							1 19.1	721		
		Zi-ka-wei	e	16 44 18							1 42	940		
		Nanking	P	44 47							2 01	1100		
		Chiufeng	iP	46 12							2 57	1790		
		Manila	P	46 26							2 49	1625		
		Medan	P	50 03										
		Uccle	eL	17 28 —										
175	Dec. 2	Keizyô	eP	19 02 01									Iditto.	
176	Dec. 7	Taikyû	iP	11 11 30.6	- 33	- 55		0.7	0.7		9.8	73	λ=128°27'E, φ=36°18'N, Felt in western part of Keizyô-hokudô.	
		Husan	iP	11 40.5							18.4	137		
		Keizyô	iP	11 53.4							25.8	193		
		Zinsen	iP	11 56.6							28.9	215		
177	Dec. 7	Taikyû	P	11 13 30.3									Aftershock of No.176.	
		Keizyô	P	14 08.2										
178	Dec.11	Zinsen	eS?	8 48 52.2									Off Okinawa Is.	
179	Dec.14	Zinsen	eP'	1 49 51										J. S. A. gives λ=72.°3W, φ=5.°5S, H=1 ^h 37 ^m 24 ^s , Depth=350km. U. S. C. G. S. gives λ=72.°5W, φ=6.°5S, Upper reaches of River Amazon.
		Husan	eP'	49 55.2										
		Taikyû	P'	50 17.4										
		Ia Paz	iP	1 33 10	360				5			1 38	910	
		Little Rock	iP	29 05								6 13	4880	
		Saint Louis	iP	29 20								6 25	5210	
		Florissant	eP	29 21								6 27	5230	
		Denver	eP	40 11								7 25	5790	
		Prague	iP	42(18)								9 47	8400	
		Chiufeng	eP'	49 48										
		Nanking	eP'	49 59										
		Batavia	P	50 07										
		Manila	P	50 11									18100	
Medan	P	50 13												
Malabar	P	50 19												
Uccle	i	57 45												
180	Dec.14	Taikyû	eP	12 51 00.3							5 55.7	4149	(r) Tôkyô gives λ=142.°0E, φ=22.°5N, Deep earthquake. Southern off Titizima Felt in Titizima.	
		Husan	eP	51 21.6							3 11.5	1868		
		Keizyô	eP	52 08.3							2 03.4	1150		
		Heizyô	eP	52 19.5										
		Zinsen	eP	52 53.9							2 38.2	1512		
		Titizima		12 49 01.9	- 180	± 272	- 162					1 03.5		635
		Hatizyôzima		50 18.1	+ 46	± 52				2.4		2 14.7		1267
		Tomisaki		50 32.9	± 67	- 67	+ 90	3.7	3.0			2 36.5		1495
		Siomisaki		50 38.3	+ 50	+ 40	+ 65	4.0	4.8	3.4		2 26.2		1392
		Misima		50 46.0	+ 40	- 10	+ 25					2 27.1		1401
Tôkyô		50 50.9	± 62	± 72		4.0	3.2	3.2		2 21.	1440			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S		Δ	Remarks	
				N	E	Z	N	E	Z	m	s			
		Kakioka	h m s 12 50 52.2	- 22	- 30	- 10	0.9	1.3	2.4	2 28.7	1517			
		Miyazaki	50 51.2	- 40	- 9	+ 15	3.2	3.4	1.4	2 42.0	1550			
		Nagasaki	51 01.7	+ 28	+ 21		3.9	2.5		2 59.0	1720			
		Palau	51 11.							2 59.	1720			
		Hukuoka	51 12.5	- 25	+ 87		3.8	7.2		2 57.1	1711			
		Wazima	51 14.6							2 08.2	1832			
		Sapporo	52 06.8							3 32.8	2138			
		Taihoku	52 08.							2 08.1	1821			
		Manila	P 12 52 10							1 22	2730			
		Nanking	iS 54 20											
		Chiufeng	iP 55 29							6 13	4650			
		Batavia	iP 55 39											
		Medan	iP 55 29											
181	Dec. 14	Keizyô	eP? 22 29 32.6										U. S. C. G. S. gives λ=92.°5W, φ=14°N. J. S. A. gives λ=92.°9W, φ=15.°0N, H=22 ^h 05 ^m 20 ^s . Central America.	
		Husan	L 34 59.2											
		Taikyû	L? 56 28.9											
		Zinsen	L 23 08 —											
		Little Rock	eP 22 09 56							3 39	2160			
		Saint Louis	eP 10 22							4 17	2620			
		La Paz	iP 12 48							6 02	4255			
		Prague	e 18 18											
		Chiufeng	eP 20 32								12235			
		Nanking	e 24 26											
		Madagascar	P? 24 47								15700			
		Manila	P 24 47								15010			
		Batavia	P 25 17											
		Medan	P 25 19											
		Zi-ka-wei	eP 25 49											
182	Dec. 15	Husan	P 7 17 18.2	+ 425	± 480		17.6	22.6		7 46.0	6180		U. S. C. G. S. gives λ=162°E, φ=12°S. Manila gives λ=162.°5E, φ=10°S. J. S. A. gives λ=160.°7E, φ=10.°6S. Solomon Is.	
		Taikyû	eP 17 19.4							8 10.0	6620			
		Keizyô	P 17 34.2							8 08.2	6590			
		Zinsen	eP 17 34.5	± 418	± 256		15.6	15.6		6 57.1	5277			
		Heizyô	eP 17 47.6							8 18.0	6780			
		Manila	iP 7 16 19							7 02	5355			
		Malabar	eP 17 08							7 22	6300			
		Batavia	P 17 10											
		Amboina	— —							5 17	3680			
		Zi-ka-wei	P 17 25							7 55	6378			
		Nanking	iP 17 44							8 12	6550			
		Medan	P 18 26											
		Chiufeng	iP 18 26							8 54	7455			
		Florissant	eP 22 24							12 30	12370			
		La Paz	eP 23 52								14030			
		Saint Louis	eP? 26 07								12400			
		Little Rock	iP ₁ 27 04								12510			
		Madagascar	P? 27 06								12100			
		Ucele	eP? 27 09								15000			
		Prague	e 27.5								12500			

No.	Date	Station	G. M. T.	Max. Amplitude			Period			Duration of P~S	Δ	Remarks		
				N	E	Z	N	E	Z					
182	Dec. 17	Husan	iP	19 20 35.7	± 500	+1:30	μ	20.5	22.2	s	2 29.6	1426	(r) Tōkyō gives λ=125.°3E, φ=23.°3N, Southern off Miyako- zima, J. S. A. gives λ=126.°5E, φ=21.°0N, 11=19 ^h 17 ^m 25 ^s . U. G. E. G. I. gives λ=126.°5E, φ=22°N, Nanking gives λ=124°E, φ=22°N. Chiufeng gives λ=127°E, φ=23°N.	
		Taikyū	P	20 47.8							2 38.6	1516		
		Zinsen	iP	21 04.6	+ 290	- 387			11.6	12.6		2 46.3		1603
		Keizyō	iP	21 07.3	- 210	- 150			12.8	10.6		2 52.5		1665
		Heizyō	P	21 56.1								3 15.0		1910
		Isigakizima		19 18 17.8		±73500						22.5		167
		Naha		18 33.7	±2000							40.0		297
		Taihoku		18 44.9	-6000	-3200	+1354		19.0	10.0	8.5	48.4		359
		Nase		19 09.5	- 147	+ 161	- 125		9.4	12.7	9.1	1 14.3		680
		Nagasaki		20 06.9	+ 51	- 129	- 204		17.7	19.3	16.7	2 05.0		1170
		Hukuoka		20 19.9	+ 153	+ 548			10.3	19.2		2 16.6		1280
		Osaka		20 36.4	- 94	+ 100			4.2	4.4		2 49.6		1636
		Kyōto		21 04.5								2 57.0		1710
		Gihu		21 17.0	- 30	- 80	± 60		5.7	9.8	11.2	5 13.6		3447
		Misima		21 31.4	- 12	- 16	+ 37					3 32.5		2115
		Tokyō		21 47.0	± 760	± 680			17.0	17.0		3 52.0		2340
		Sapporo		22 51.5	- 69				10.0			4 22.7		2727
		Manila	P	19 13 42								1 40		940
		Zi-ka-wei	iP	19 47	- 242	- 259			10	9		2 07		1233
		Nanking	iP	20 13								2 13		1210
		Chiufeng	iP	21 59								3 34		2150
		Medan	P	24 06								5 11		3590
		Batavia	iP	24 17								5 27		3850
		Malabar	P	25 20										
		Ambonia									(e-l-l)	14 —		—
		Prague	eP	30 10	115	60			22	22		10 28		9250
		Uccle	P	30 42	- 150	- 160			23.5	27				
		Florissant	eP	32 15								12 03		12300
		Little Rock	ePR ₁	36 40										
		Saint Louis	iPR ₁	36 43										
La Paz	P'	37 40									17800			
Madagascar	e	40 54												
184	Dec. 18	Heizyō	P	7 15 20.0							4 00.0	2440	Chiufeng gives λ=102.°5E, φ=27.°5N. Damage at Ma-pien, Lei-po and some landslides at Hwei- li, Szechwan, Felt area over radius of 400km. Epicenter about λ=102.°8E, φ=28.°2N by Nanking.	
		Zinsen	eP	15 21.7	- 40	+ 42			10.2	9.7		3 50.7		2327
		Keizyō	eP	15 23.3								3 58.7		2410
		Taikyū	P	15 34.0								4 04.0		2440
		Husan	P	15 38.4								4 02.5		2465
		Nanking	P	7 12 50								2 31		1410
		Chiufeng	iP	14 09								3 06		1880
		Zi-ka-wei	eJ	14 15								3 09		1856
		Manila	iP	15 27								3 58		2500
		Medan	P	16 03								4 36		3020
		Batavia	P	17 25								5 33		3980
		Uccle	e(l')	22(23)	- 37				22			(9 27)		8140
		Prague	e	20 28	20	8			20	20				
185	Dec. 18	Keizyō	eP'	8 13 25.5									Aftershock of No. 184.	
		Husan	eP	16 54.2							2 29.5	1425		
		Nanking	eP	8 07 53							(2 44)	1545		

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
1	Jan. 1	iPH	h	m	s	μ	μ	μ	s	μ	km 8030	Pacific, SW of Samoa.
		PePH?										
		iSH										
		F	14	12	±							
2	Jan. 2	ePE	1	56	34.6						3370	Tibet.
		eSE	2	01	43.6							
		eIN	06		46.1							
		F	50		±							
3	Jan. 4	e	15	15	30.							Turkey, Sea of Marmara.
		eL		20	30.							
		F		44	±							
4	Jan. 4	eL	17	01	30.							Turkey.
		F		17	±							
5	Jan. 13	eIN?	17	17	21.5						2120	Off Isigakzimia.
		eSE		20	51.9							
		F		30	±							
6	Jan. 22	iS?	0	36	25.6							South Amakusanada.
		i		36	41.5							
		F		33	36.							
7	Jan. 23	eIH	7	22	28.0						5021	Aleutian Islands.
		eSH		39	11.3							
		eIN		42	50.7							
		F	8	33	±							
8	Jan. 30	eE	0	43	53.							
		eL		51	02.							
		F		57	±							
9	Feb. 7	eIN	17	34	28.3						2533	Iuzôn.
		eSN		38	35.8							
		F		50	±							
10	Feb. 9	iIN	19	22	56.9				5 1	N 4.8	1603	In the region of Soô, Formosa.
		eSE		25	43.2							
		eLE		26	58.3							
		ME		27	45.4							
		F		44	±							
11	Feb. 19	ePE	20	13	07.7						1172	Northern part of Kuzyûkrihama.
		eSN?		15	41.9							
		F		25	±							
12	Feb. 22	P	9	04	45.							Kareukô, Formosa.
		S										
		eL										
		F		12	±	Covered by Microseisms.						

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks	
						A _N	A _E	A _Z					
13	Feb.22	eLN	h	m	s	p	p	p	s	p	km 2451	Aleutian Island.	
		eSN	17	13	02.0								
		eLN		13	15.8								
		F	21	11.4									
14	Feb.22	eLN	19	00	±						2467	Formosa.	
		eSN	20	55	45.8								
		eSN		59	48.5								
		F	21	07	±								
15	Mar. 2	eS	8	02	42.7							Local ?	
		F		05	±								
16	Mar. 5	e	10	35	10.?							Turky.	
		eL		58	±								
		F	11	18	±								
17	Mar. 7	eN	10	31	11.							Off Ozika Peninsula, Akita Prefecture.	
		eLN		31	50.								
		F		44	±								
13	Mar. 7	eS	10	44	13.0							Mt. Aso.	
		F		47	±								
19	Mar.11	eP	11	24	34.5							Philippine.	
		eL		28	59.2								
		F		35	±								
20	Mar.20	eP	23	06	49.						5710	Solomon Island.	
		eS		14	10.								
		F		38	±								
21	Mar.21	eS	0	13	04.2								
		F		29	±								
22	Mar.28	iPz	23	49	36.1			+ 6.8		S 5.6	792	SE off Vladivostok.	
		iPz		49	36.5	- 5.6	- 2.6			W 2.6			
		i		50	24.2					U 6.3			
		iSz		51	02.5								
		iSN		51	02.7								
		ME		51	06.3		- 15		4.4				
		MN		51	12.3	+ 33			7.8				
		Mz		51	13.3			- 30	9.7				
		29	SeSe	0	01	30.0							
		F		10	±								
22	Mar.30	ePE	21	22	26.0						1471	NE off Siogasaki.	
		eS		25	00.1								
		i		25	16.4								
		eL		26	46.4								
		F		45	±								

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	Az				
24	Apr. 11	e ¹ N	h 1 35 22.1						2032	
		e ² N	23 53.3							
		e ¹ S	40 39.4							
		F	53 ±							
25	Apr. 11	e?	22 30 —						985	Teheran, Iran.
		e ¹ I?	44 30.							
		F	0 17 ±							
26	Apr. 15	e ¹ E	11 17 01.0					E ward	985	NW part of Hida, Gihu Prefecture.
		i ¹ Z	17 07.1					D ward		
		i ¹ E	17 0.77							
		e ² N	18 47.5							
		M ₁ N	19 14.6	+ 13			4.5			
		F	22 ±							
27	Apr. 19	e ¹ H	15 36 05.0						9192	Libya, North Africa.
		e ¹ Z	36 05.4							
		e ² H	46 25.1							
		SR ₁ N?	52 13.4							
		I	16 01 —							
		F	17 12 ±							
28	Apr. 20	i ¹ H	22 05 18.1	+ 2.0	+			N 2.0	1592	Sintiku, Formosa.
		i ¹ Z	05 18.3			+		E ward		
		e ² H	03 01.4					U ward		
		e ² Z	03 03.6							
		i ¹ E	09 02.4							
		i ¹ N	09 26.3							
		i ¹ Z	09 28.5							
		M ₁ Z	11 32.1			- 127	6.9			
		M ₁ N	12 33.1	- 131			7.8			
		M ₂ N	12 55.1	- 226			8.5			
		M ₂ Z	14 33.6			- 270	9.2			
F	Lost in next quake.									
29	Apr. 20	e ¹ Z	22 29 44.9						4.5	Afters-hock of No.28.
		e ¹ I	33 16.1							
		M ₁ N	34 11.6	+ 17						
		F	23 30 ±							
30	May. 1	e	10 55 —							Caucasus.
		F	11 20 ±							
31	May. 4	e ¹ N	23 05 49.1						1672	Formosa.
		e ² SE?	03 42.3							
		e ¹ E	09 54.2							
		M ₁ N	11 32.5	+ 6			5.1			
		M ₁ E	11 33.2		+ 11		5.1			
		F	37 ±							

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
			h	m	s	μ	μ	μ	s	μ	km	
32	May. 10	L F	17	20	30 ±							Between Burma & Siam.
33	May. 13	eP'E? eS? eIN ME MN Mz F	20	03	45.6 07 11.4 03 37.0 10 22.7 10 31.5 11 26.7 42 ±	+ 18	+ 26		6.8 6.7 6.9		2028	Ditto.
34	May. 21	eP'E eSN F	6	59	58.5 03 55.3 26 ±						5271	New Guinea.
35	May. 24	eP'z eP'N eSE ME Mz MN F	5	42	00.0 42 02.0 46 17.8 53 28.9 56 25.8 6 00 37.8 7 24 ±	± 67	± 50	± 60	11.5 15.2 13.9		2662	Visayas, Philippine.
36	May. 25	ePN eSN eIE F	0	13	26.2 17 52.6 20 47.7 1 07 ±						2786	Aftershock of No.35.
37	May. 26	P eSN? F	Covered by Microseisms.									Borongan.
38	May. 29	eP'z eSE? F	13	46	15 50 23 20 03 ±						2540	Taiyû, Formosa.
39	May. 30	eP'E iSE SR ₁ E eIN ME MN Mz	21	41	41.4 49 03.1 52 53.6 01 19.0 04 02.8 04 55.0 05 59.0	-1500	- 390		13.5 13.5 13.6		5724	Baluchistan, India.
31		F	0	16	±							
40	May. 21	iPH iPz iSE iSN iSz ME	3	20	12.0 20 12.6 21 22.2 21 26.1 21 28.0 21 29.7	- 3.1	- 20.3	+ 2.2	1.4 1.4 1.4	S 3.1 W 20.3 U 2.3	642	The middle part of Japan sea.
							- 130		5.6			

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	Az				
		MN	h	m	s	μ	μ	μ	s	μ	km	
		Mz	8	21	29.7	+ 78			4.2			
		ScSE		21	29.7			- 45	4.8			
		F		32	27.7							
				45	±							
41	June 2	ePz	9	25	18.6							Baluchistan, India.
		F	10	00	±							
42	June 24	iP'H	23	33	46.3	+ 4.2	- 4.3		3.7 3.7	N 4.2	7086	New Hebrides Is.
		iPz		33	46.6			+ 11.4	4.2	W 4.3		
		iPcl'z		34	18.1			+ 8.6	4.2	U 11.4		
		iPcl'H		34	18.5	+ 3.1	- 3.2		3.7 3.7			
		iSE		42	20.1		- 7.5		4.6			
		iSN		42	20.8	+ 9.4			9.2			
		iScSN		43	14.0							
		MN		42	28.4	- 25			6.8			
		eP'P'z?		02	26.4							
		F		20	±							
43	June 25	eP'E	12	38	06.7						2190	Kurile Islands.
		eSN		41	46.0							
		F		13	18	±						
44	June 28	iP'E	19	00	28.0						2335	Southern off Katsuura.
		eSN		04	29.5							
		F		14	±							
45	June 29	e	7	53	-							Mexico.
		F	8	20	±							
46	July 5	iP	9	13	32.1	- 2.0	+ 1.9	- 4.2		S 2.0	1011	SW off Hatizyo-
		iS		15	22.2					E 1.9		zima.
		F		19	±					D 4.2		
47	July 5	iP'E	18	01	26.7		-			W ward	4943	Turkestan.
		eSE		08	05.6							
		eIN		18	26.7							
		F		38	±							
48	July 7	eP'N	13	27	54.4						2188	Luzon, Philippine.
		eSE		31	32.6							
		F		14	00	±						
49	July 11	ePz	8	27	03.7						114C?	East of the city of
		eSz?		29	03.7							Sizuoka.
		eLz		30	30.4							
		ME		31	29.6		+ 23		8.1			
		Mz		31	31.6			- 30	8.5			
		MN		31	55.2	± 21			8.0			
		F		51	±							

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	Az				
50	July 12	eLN? eSN? F	^h 1 ^m 51 ^s 57 54 53 2 06 ±	μ	μ	μ	s	μ	km 1700?	
51	July 16	eL? eS F	15 01 53 02 50.6 08 ±						430	Western part of Yamaguti Prefecture.
52	July 16	iLH eSE eLN ME MN F	16 22 16.5 25 02.3 26 02.6 26 42.8 26 49.6 17 02 ±	+	+	+		N ward E ward U ward	1597	Sintikusyû, Formosa.
53	July 19	eLE eSE eSN eLz Mz ME MN F	0 52 38.8 55 02.8 55 05.3 55 47.9 56 38.4 56 42.9 57 26.1 1 40 ±		- 40		6.1 5.7		1360	Kasimanada.
54	July 26	eLz eSz eLz F	10 37 06.0 41 08.2 43 00.7 11 00 ±						2462	Tibet.
55	July 29	iLz ePH ePK ₁ Z ePK ₂ Z iSH eSR ₁ H F	7 50 02.9 50 03.9 51 51.7 52 44.8 59 23.7 8 02 28.7 50 ±			-		D ward	8016	Tonga Is.
56	Aug. 1	ePE eSE F	14 11 54.4 16 06.8 15 17 ±						2594	In Philippine deep.
57	Aug. 3	iPH iLz iSH eLH iLH iLz MN Mz ME F	1 18 03.9 18 03.9 24 29.1 29 44.5 31 39.7 35 30.1 39 07.5 39 14.5 39 25.5 3 00 ±	-	-	-	12.9 12.7 12.4	S ward W ward D ward	4678	Sumatra.
				± 112	± 343	± 380				
				± 310	± 429	+ 680				

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No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks	
						AN	AE	Az					
58	Aug. 3	e F	h 11 12	m 52 30	s 30	μ	μ	μ	s	μ	km	Philippine.	
59	Aug. 3	e F	13	30 ± 40 ±								Aftershock of No. 58.	
60	Aug. 17	iP _N iP _Z iPcP _N iPcN _Z iS _N F	1	56 01.8 56 02.6 56 13.1 56 13.9 2 05 34.3 59 ±		+						N ward U ward 8248 Loyalty Is.	
61	Aug. 23	eI _N eS _N eI _N F	14	06 19.9 13 32.3 26 45.0 53 ±							5738	Sumatra.	
62	Aug. 25	e F	5	30 ± 6 04 ±								NW of Spitzbergen.	
63	Aug. 26	eP _E ? eS _E ? eI _N ? F	16	37 08.3 38 18.6 40 07.6 17 00 ±							643	Isigakizima.	
64	Aug. 31	eP _E eS _N F	17	44 14.9 47 52.6 18 08 ±							2167	Guiuan and Tucloban, Philippine.	
65	Sep. 3	eP _E ? eS _E F	11	03 05.6 03 35.5 16 ±							222?	Off Miyakozima.	
66	Sep. 4	iP _{II} iP _Z iE iN iS _E iS _N iS _Z eI _N iI _Z M _I E M _Z M _N M ₂ E F	1	41 26.2 41 26.4 43 01.5 43 05.8 44 22.9 44 29.5 44 30.8 45 59.0 46 50.8 47 20.8 48 15.3 48 18.6 50 31.9 2 57 ±		- 5.4	- 0.9			2.4 2.4 2.4 2.4	S 5.4 W 0.9 D 3.0	1707	Taito, Formosa.
67	Sep. 4	eP _N eS _N ?	3	31 40.0 34 39.6		+ 333						1739	Aftershock of No. 66.

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	Az				
		eI.E	h m s 3 36 34.0	μ	μ	μ	s	μ	km	
		F	4 08 ±							
63	Sep. 9	eI'N	5 15 08.2						744	Amakusa, Kyûsyû.
		eSE	16 29.6							
		F	20 ±							
69	Sep. 9	eI'N	6 24 17.7						3213	SW part of Micronesia.
		eSN	29 15.5							
		eI.N	32 17.9							
		F	7 04 ±							
70	Sep. 11	iI'HZ	14 07 48.4	+	+ 1.8	- 2.8		N ward	1343	SE off Kusiro.
		II	07 59.4					E 1.8		
		iSH	10 57.7					D 2.8		
		M ₁ N	11 31.5	- 39				4.8		
		M ₁ E	11 36.2		+ 4.7			7.7		
		eI.N	11 53.0							
		M ₂ E	13 35.4		+ 173			13.6		
		M ₂ N	13 35.4	- 103				10.7		
		Mz	14 53.7			- 250		16.0		
		F	15 57 ±							
71	Sep. 15	eI'N	11 24 06.0	+				N ward	5372	California.
		iI'Z	24 06.4			+		U ward		
		eSN	31 03.6							
		F	58 ±							
72	Sep. 18	eI'II	8 27 03.2	-	+			S ward	1287	SW off Urakawa.
		eSN	29 19.9					E ward		
		eI.II	31 04.5							
		F	49 ±							
73	Sep. 18	eI'E	8 53 15.5						1374	Aftershock of No 72.
		eSN?	55 40.4							
		F	9 06 ±							
74	Sep. 20	eI'HZ	1 54 40.3	+	-	+		N ward	4711	New Guinea.
		eI'RN	56 15.1					W ward		
		eSII	2 01 06.7					U ward		
		M ₁ E	01 35.5		+ 340			21.6		
		M ₁ N	01 40.3	- 393				14.4		
		SR ₂ E	04 45.1							
		M ₂ E	07 43.1		- 410			18.2		
		Mz	11 08.4			+ 1250		21.2		
		M ₂ N	11 11.5	- 435				14.4		
		F	5 20 ±							
75	Sep. 20	iI'NZ	5 31 08.2	+		+ 2.3		N ward	4818	New Guinea.
		eSN	37 40.5					U 2.8		
		M ₁ N	37 54.8	- 90				12.0		

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No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				A _N	A _E	A _Z				
			h m s	μ	μ	μ	s	μ	km	
76	Sep. 23	F	7 14 ±							
		eP _N	9 26 18.9	+				N ward	4366	New Guinea.
		eS _N	32 59.3							
		F	10 18 ±							
77	Sep. 24	eS?	16 44 25							
		F	17 07 ±							
78	Sep. 25	iP _N	10 27 42.2	+				N ward	4725	New Guinea.
		eS _N	34 09.5							
		F	53 ±							
79	Oct. 2	iP _{NZ}	5 36 47.3	+	+	+		N ward	1363	Off Otiisizaki.
		iS _N	39 58.5					E ward		
		F	6 10 ±					U ward		
80	Oct. 2	eP?	9 29 13.2						360?	Off Satamisaki,
		eS	30 47.0							Kagosima Prefecture.
		F	34 ±							
81	Oct. 8	eS?	9 42 42							Central Asia,
		F	10 ±							Russian Turkestan.
82	Oct. 11	eP _N	22 24 02.9						4375	New Guinea.
		iS _N	30 38.4							
		eI.	23 52.5							
		F	23 03 ±							
83	Oct. 12	eP _E	16 48 26.7					N ward	1679	NE off Miyako.
		eP _Z	48 30.9					E ward		
		eS _N	51 20.6					U ward		
		eS _Z	51 27.1							
		M _E	53 40.0		- 769		15.6			
		M _N	53 44.1	+ 407			13.4			
		M _Z	54 01.6			± 750	13.3			
		F	13 14 ±							
84	Oct. 12	eP _N	17 03 21.4						1312	Ditto.
		eS _N	06 27.2							
		M _E	08 26.3		- 207		15.7			
		M _Z	03 39.6			- 250	15.8			
		M _N	08 43.3	+ 125			13.4			
		F	18 14 ±							
85	Oct. 12	eP _E	13 17 19.3						1334	Ditto.
		i _E	13 33.6							
		eS _N ?	20 27.7							
		F	18 40 ±							
86	Oct. 13	eP _N	2 00 34.2						1613	Ditto.

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						AN	AE	AZ				
			h	m	s	μ	μ	μ	s	μ	km	
87	Oct. 15	cSN	2	03	21.5							
		F		25	±							
		iPEZ	14	37	00.0	± 0.0	+ 3.7	- 2.7		S 0.0	646	NW off Noto,
		iSE		38	10.6					E 3.7		
ME		33	15.8		- 7		4.1	D 2.7				
F		43	±									
88	Oct. 17	e	14	54	±						Sumatra.	
		F	15	06	±							
89	Oct. 18	ePH	0	15	02.9						1640	NE off Miyako,
		cSN		17	52.9							
		MN		20	21.8	+ 433			13.6			
		Mz		20	56.0			- 700	14.0			
		ME		20	56.8		- 557		13.7			
90	Oct. 18	e	5	58	30						Ditto.	
		F	6	09	±							
91	Oct. 18	ePH	11	11	14.9						1955	Guam Is.
		cSE?		14	33.9							
		eIN		16	05.8							
		F		12	19	±						
92	Oct. 18	ePH	14	57	04.9						1757	Off Miyako.
		cSE		15	00	05.7						
		MN		01	54.3	± 44			12.7			
		Mz		02	53.2			± 200	13.3			
		ME		02	56.8		± 280		13.4			
		F		16	00	±						
93	Oct. 18	ePE	21	54	39.2						1615	Ditto.
		cSN		57	26.7							
		F		22	13	±						
94	Oct. 19	ePE	0	54	36.4						Ditto.	
		eIN		58	22.6							
		F		1	10	±						
95	Oct. 19	ePE?	2	42	15.4						Ditto.	
		eI?		45	48.0							
		F		55	±							
96	Oct. 25	e	17	48	±							
		F		53	±							
97	Nov. 1	ePE	16	27	37.0						2924	Tong-king Bay.
		cSE		32	14.4							
		eIE		35	33.4							

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						A _N	A _E	A _Z				
		ME	^h 16	^m 37	^s 18.9				^s 10.5			
		M _N		37	20.1	- 225	+ 211		11.7			
		M _Z		39	16.4			- 217	9.5			
		F	17	20	±							
98	Nov. 3	e _{PH}	3	03	39.0					108	Off Zinsen.	
		i _{SH}		08	53.5							
		F		09	14.							
99	Nov. 11	i _{SH}	13	49	30.0						Naizyô, Keisyô-ho-	
		F		49	48.						kudô.	
100	Nov. 12	e	21	42	38						Sumatra.	
		e _{L?}		50	13							
		F	22	15	±							
101	Nov. 14	e _{P?}	20	12	20					1980?	New Guinea.	
		e _{S?}		15	41							
		F		24	±							
102	Nov. 25	e _{P?}	10	11	01.3					4805	Nicolbar Is.	
		e _{SE}		17	32.8							
		e _{LN}		23	22.6							
		M _E		31	51.6		+ 118		13.2			
		M _N		31	56.4	± 83			15.0			
		F	11	00	±							
103	Nov. 26	e	18	51	±						Ditto.	
		F	19	15	±							
104	Dec. 1	e _{LN}	23	46	55.6					1079	Amamiôshima.	
		e _{SE}		48	51.5							
		e _{LN}		49	27.3							
		M _N		51	51.4	- 50				7.8		
		M _Z		51	52.1			- 111		9.0		
		M _E		52	14.3		± 120			8.4		
		F		Lost in next quake.								
105	Dec. 2	e _S	0	30	13.5						Ditto.	
		F		35	±							
106	Dec. 2	e _{SE}	4	37	01.7						Ditto.	
		F		41	±							
107	Dec. 2	e _{SE}	5	15	06.4						Ditto.	
		F		20	±							
108	Dec. 2	e _{PN?}	16	45	09.9					721	Ditto.	
		e _{SE}		46	29.0							
		M _N		48	36.6	+ 50			7.2			
		M _E		49	32.1		- 141		10.4			

5. The Seismic Reports of Weather Bureau of Työsen in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude			Period	First motion	Δ	Remarks
						A _N	A _E	A _Z				
			^h	^m	^s	^μ	^μ	^μ	^S	^μ	^{km}	
		M _Z	16	48	46.0			- 57	7.3			
		F	17	11	±							
109	Dec. 7	i ₁ E	11	11	56.6					215	Western part of Kelsyö-hokudö.	
		i ₂ II		12	25.5							
		F		13	54.							
110	Dec. 11	e ₁ SE?	8	43	52.2						Off Okinawa Is.	
		F		56	±							
111	Dec. 14	e ₁ V	1	49	51						Upper Region of Amazon.	
		F		54	±							
112	Dec. 14	e ₁ E	12	53	53.9					1512	Southern off Titizima.	
		e ₂ SN		55	32.1							
		F		13	04 ±							
113	Dec. 14	I.	23	08	±						Central America.	
		F		0	00 ±							
114	Dec. 15	e ₁ E	7	17	34.5					5277	Solomon Island.	
		e ₂ SN		24	31.6							
		e ₃ IN		29	10.5							
		M _E		40	04.1			± 256	15.6			
		M _N		40	26.1	± 413			15.6			
		F		9	16 ±							
115	Dec. 17	i ₁ N	19	21	04.6	+ 13.6				N 13.6 E ± 0	1603	Southern off Miyakozima.
		e ₁ E		21	04.6			± 0				
		i ₂ E		23	50.9							
		M _E		27	40.3			- 387	13.6			
		M _N		28	52.4	+ 290			11.6			
		F		20	30 ±							
116	Dec. 18	e ₁ E	7	15	21.7					2327	Huei-li, Szechwan, China.	
		e ₂ II		19	12.4							
		e ₃ I.E		21	33.2							
		M _E		24	28.6			+ 42	9.7			
		M _N		24	43.2	- 40			10.2			
		F		43	±							
117	Dec. 13	e ₁ E	17	04	15.2					2273	Aftershock of No. 116.	
		e ₂ SN		08	01.5							
		e ₃ L		10	34.6							
		F		26	±							
118	Dec. 20	e ₁ II	13	46	42.2					6288	Solomon Is.	
		e ₂ II		54	34.1							
		e ₃ IN		19	01 12.3							
		F		30	±							

5. The Seismic Reports of Weather Bureau of Tyôsen in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude			Period	First motion	Δ	Remarks
				AN	AE	Az				
119	Dec. 28	P	h m s	μ	μ	μ	s	μ	km	Batoc Is.
		eSz?	2 50 57.5	Lost during changing paper.						
		eIz	57 57.1							
		ME	3 02 07.5		± 1970					
		Mz	02 56.7			± 2240				
		MN	03 10.9	± 3100						
F	5 10 \pm									
120	Dec. 29 30	eIN	23 44 50.2						4677	New Guinea.
		eSII	51 14.3							
		F	0 16 \pm							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
1	Jan. 1	P _{NE}	h	m	s	"	"	"	km 80±0	Pacific, SW of Samoa.	
		Pcl? _{II}	13	32	21.3						
		S _H		33	29.3						
		F	14	00	±						
2	Jan. 3	cP _{NE}	1	56	41.2	+	45	-	16.0 10.0	11	2435 Tibet.
		cS _E	2	01	54.2						
		L _{NE}		05	40.2						
		M _N	08	31.4							
		M _E	10	51.1							
		F	36	±							
3	Jan. 4	c	15	19	03						Turkey, Sea of Marmara.
		F		50	±						
4	Jan. 4	c	17	04	47						Turkey.
		F		18	±						
5	Jan. 23	P _{NE}	7	32	24.2				23.0	4865	Aleutian Islands.
		S _E		38	59.3						
		L _E		43	24.7						
		M _E	48	19.1							
		F	8	37	±						
6	Feb. 9	iP	19	22	00.2	-	16	+	4.2 4.2	9	1516 In the Region of Soô, Formosa.
		S		24	38.8						
		L		26	10.2						
		M _E	26	59.9							
		M _N	27	33.5							
		F	49	±							
7	Feb. 17	cP _E	16	21	20						Off Karenkô.
		F		30	±						
8	Feb. 22	cP?	8	58	51.4					2736?	Karenkô, Formosa.
		S	9	03	14.8						
		F		20	±						
9	Feb. 22	P	17	12	55.6	±	80	+	19.0 19.0	4025	Aleutian Islands.
		S		18	44.2						
		L		21	36.2						
		M _N	22	26.4							
		M _E	29	47.4							
		F	18	55	±						
10	Feb. 23	P	20	55	27.7					2921	Formosa.
		S	21	00	04.8						
		F		13	±						
11	Mar. 2	cP	6	01	32						Local.
		F		12	±						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			h	m	s	μ	μ	s	μ	km	
12	Mar. 5	ePE	22	37	07.0						
		MN	40	57.3	± 1			12.0			
		ME	42	03.5				10.2			
		F	50	±							
13	Mar. 7	PN	10	30	54.7					375	Off Ozika Peninsula, Akita Prefecture.
		SNE?	31	45.3							
		MN	32	57.0	± 6			10.0			
		ME	33	14.1		± 7		10.6			
		F	Lost in next quake.								
14	Mar. 7	P	10	44	00.2						Mt. Aso.
		F	53	±							
15	Mar. 11	ePNE	11	27	05.						Philippine.
		MN	29	46.4	± 9			12.0			
		F	40	±							
16	Mar. 28	ePNE	23	49	34.9					760	SE off Vladivostok.
		SNE	50	58.0							
		ME	51	00.8			- 13	3.6			
		MN	51	09.4	+ 15			4.6			
		F	0	09 ±							
17	Mar. 30	PE	21	22	31.5						NE off Sioyasaki.
		INE	25	49.3							
		MN	27	15.7	+ 33			13.0			
		ME	27	30.5			- 32	13.0			
		F	55	±							
18	Apr. 11	ePNE	1	33	24.6					3015	
		eSNE	38	08.6							
		eIE	41	54.6							
		ME	42	20.1			± 50	18.0			
		F	2	07 ±							
19	Apr. 11	PNE	15	27	39.2						NE part of Miyagi Prefecture.
		F	34	±							
20	Apr. 11	ePNE	23	24	26.6					6460	Teheran, Persia.
		eSE?	32	27.6							
		MN	51	31.1	± 6			12.0			
		ME	54	22.6			± 11	9.0			
		F	0	28 ±							
21	Apr. 15	PE	11	17	04.5					905	NW part of Hida, Gifu Prefecture.
		SNE	18	43.1							
		MN	18	06.4	+ 14			4.4			
		ME	18	09.5			- 4	3.2			
		F	24	±							

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
22	Apr. 19	e'NE	h m s 15 36 05.7	μ	μ	s	μ	9370	Libya, North Africa.
		SNE	46 19.7						
		ME	16 17 42.0		± 22	17.0			
		MN	20 35.2	± 51		23.0			
		F	17 05 ±						
23	Apr. 20	P'NE	5 34 09.5						Ditto.
		F	6 21 ±						
24	Apr. 20	P'NE	22 05 20.5					1560	Sintiku, Taityû, Formosa.
		SNE	03 03.5						
		I'NE	09 20.5						
		ME	11 42.8		- 170	7.0			
		MN	14 01.8	- 220		8.2			
		F	23 27 ±						
25	Apr. 20	P'E?	22 32 45.7						Ditto.
		SNE?	33 52.7						
		F	— —						
26	May 1	e'PN	10 57 54						Caucasas.
		F	11 13 ±						
27	May 4	S'N	23 09 50.9					3660	Formosa.
		F	27 ±						
28	May 13	e'PN	20 04 57.7						Indo-China.
		S'N	09 24.5						
		F	39 ±						
29	May 21	P'E	7 00 11.3					5070	New Guinea.
		S'E	06 57.7						
		F	26 ±						
80	May 24	i'PN	5 42 01.5					2470	Philippine.
		S'E	46 04.3						
		I'N	49 54.1						
		ME	52 47.2		+ 19	10.2			
		MN	6 05 50.6	+ 15		10.8			
		F	8 05 ±						
31	May 25	P'E	0 13 23.8					2850	Ditto.
		SNE	17 55.6						
		I'NE	20 40.8						
		F	1 20 ±						
32	May 26	P'E?	22 13 36.6						Borongan.
		I'NE	16 41.1						
		F	58 ±						
33	May 30	MN	22 04 53.9	± 790		16.4		Baluchistan, India.	

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
	31	ME F	h m s 22 07 42.2 1 02 ±	μ	- 190	s 10.8	μ	km	
34	May 31	iPNE iSNE MN ME F	8 20 08.8 21 19.2 21 23.0 21 24.2 51 ±	+ 72	- 100	5.4 6.4	S 3 W 27	644	The middle region of Japan sea.
35	June 7	eP F	2 58 39 3 09 ±						Formosa.
36	June 18	PN SNE ME F	22 33 12.2 37 37.0 43 45.3 23 36 ±		± 12	11.4		2760	Borongan.
37	June 24	iPNE SNE CNE INE F	23 33 45.2 38 21.9 42 18.0 49 04.0 0 59 ±					2920	New Hebrides Is.
38	June 25	PNE SNE MN ME F	12 38 10.0 41 39.0 45 13.2 45 45.0 13 53 ±	- 18	- 25	15.0 13.0		2070	SE off Etrô Is.
39	July 5	iPNE iSNE F	9 13 31.9 15 18.3 21 ±					980	Luzon.
40	July 5	ePNE F	18 18 04 40 ±						Turkestan.
41	July 7	PNE iSNE LE F	13 27 54.2 31 44.3 34 50.3 14 02 ±					2320	Luzon.
42	July 11	PE SE ME F	8 27 08.6 29 26.6 31 27.4 9 02 ±		- 1	6.6		1300	Sizuoka.
43	July 12	iPN iSN F	1 52 11.0 55 10.6 2 11 ±					1745	
44	July 12	PNE	3 42 51.4					2245	Cruppu, Kurile Is.

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	"	km	
45	July 16	SE	3	46	39.5					419	Western part of Yamaguti Prefecture.
		F		53	±						
		PNE	15	01	49.7						
		SNE		02	46.1						
		MN		03	02.6						
46	July 16	ME		03	03.7					1490	Formosa.
		F		14	±						
		PNE	16	22	20.2						
		SNE		24	56.5						
		I.NE		26	02.3						
47	July 19	MN		26	54.9	- 21		6.0		1230	Kasimanada.
		ME		27	07.5		+ 30	5.8			
		F	17	15	±						
		iPNE	0	52	44.9						
		SNE		55	56.1						
48	July 26	F	2	06	±					1585	SE off Kitasiretoko-misaki.
		eIN	8	07	17.						
		SN		10	02.0						
49	July 26	F		20	±					2440	Tibet.
		PNE	10	37	12.0						
		SNE		41	12.0						
		I.NE		43	33.2						
50	July 27	F	11	23	±					1790	Gulf of Tartary.
		iPNE	10	16	50.5						
		iSNE		19	54.3						
		F		26	±						
51	July 29	PNE	4	17	51.9					3215	
		SNE		22	49.9						
		F		30	±						
52	July 29	PNE	7	50	02.2					3270	Tonga Is.
		eSE?		55	04.8						
		F	8	41	±						
53	Aug. 1	cPNE	14	12	07.					2840	Philippine deep.
		SNE		16	38.0						
		I.NE		19	12.2						
		F		58	±						
54	Aug. 3	PNE	1	18	05.0					4705	North Sumatra.
		SNE		24	30.8						
		I.NE		28	53.8						
		MN		39	19.1	+ 34		13.6			
		ME		39	30.9		+ 25	12.0			

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
55	Aug. 8	F	2	09	±						
		ePNE	14	29	47.1						North China.
		F		35	±						
56	Aug. 17	PNE	1	59	01.2					3910	Loyalty Is.
		SNE	2	01	42.8						
		LNE		05	19.8						
		F	3	24	±						
57	Aug. 23	eSE	14	13	31.						Sumatra.
		LE		24	10.						
		ME		27	06.8		± 2	16.0			
		F		47	±						
58	Aug. 25	eE	5	36	16.						Spitzbergen.
		LE		39	04.						
		ME		41	09.3		- 3	16.0			
		F		57	±						
59	Aug. 26	ePNE	16	36	51.1					990	Isigakizima.
		SNE		38	38.3						
		LNE		40	39.1						
		F	17	00	±						
60	Aug. 27	ePNE	5	26	07.3					1420	Ditto.
		eSNE		28	35.9						
		LNE		30	35.9						
		F		42	±						
61	Aug. 27	eNE	14	33	20						East off Miyako.
		F		44	±						
62	Aug. 31	ePE	17	44	13.0					2260	Philippine.
		eSE		47	57.7						
		eLE		50	02.7						
		F	18	20	±						
63	Sep. 3	ePE	11	02	23.3					717	Off Miyakozima.
		SE		03	42.0						
		LE		05	25.0						
		F		17	±						
64	Sep. 4	PNE	1	41	27.9					1730	Formosa.
		SNE		44	27.3						
		LNE		45	54.3						
		ME		47	50.2		+ 36	6.0			
		MN		48	25.3			13.0			
		F	3	00	±	- 214					
65	Sep. 4	ePE	3	31	46.0					1745	Ditto.

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
66	Sep. 18	eSE	3	34	45.7					1440	SW off Urakawa,
		eLE		36	23.3						
		F	4	02	±						
		PE	8	26	59.6						
67	Sep. 18	SE		29	30.4					1600	Ditto.
		LE		30	45.4						
		F	9	08	±						
		ePE	8	53	13.4						
68	Sep. 19	eSE		55	59.4					4701	New Guinea.
		eLE		57	00.4						
		F	9	08	±						
		ePE?	2	38	01.1						
69	Sep. 20	F	3	20	±					4701	New Guinea.
		ePE	1	54	41.0						
		SNE	2	01	06.8						
		MN		10	59.0	+ 49		20.0			
		ME		17	53.0		- 283	17.0			
70	Sep. 20	F	5	12	±					5105	Ditto.
		ePNE	5	31	00.2						
		eNE		35	04.4						
		SNE		37	43.2						
		MN		37	53.7						
		ME		44	05.3						
71	Sep. 23	F	6	45	±					4735	Ditto.
		ePE	9	26	21.4						
		eSE		32	49.4						
72	Sep. 25	F	10	17	±					4775	Ditto.
		ePN	10	27	35.3						
		eSN		34	05.3						
73	Sep. 25	F		50	±					?	
		ePE	12	51	07.3						
74	Sep. 30	F	13	20	±					1530	Tiba.
		ePE	0	09	34.9						
		eSE		12	14.9						
75	Oct. 2	F		26	±					1700	Off Otisizaki.
		iPNE	5	36	44.1						
		iSNE		39	39.9						
		INE		41	40.9						
76	Oct. 2	F	6	25	±					840	Off Satamisaki, Kagosima.
		ePE	9	29	23.8						

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
			h	m	s	μ	μ	s	μ	km	
77	Oct. 4	SNE	9	30	54.8					1660	Banda Sea.
		F		25	±						
78	Oct. 8	ePE	5	23	11.8					4845	Central Asia, Russian Turkestan.
		eSNE		26	04.8						
79	Oct. 11	F		36	±					4845	New Guinea.
		ePNE	22	24	04.3						
80	Oct. 12	eSNE?		30	38.7					4845	Island of Yezo.
		F	23	02	±						
81	Oct. 12	ePNE	16	48	27.3					4845	Island of Yezo.
		I _{NE}		52	04.3						
82	Oct. 12	M _E		52	29.6					4845	Island of Yezo.
		M _N		53	40.7						
		F	Lost in next quake.								
83	Oct. 12	ePNE	17	03	36.3					4845	NE off Miyako.
		eJ.		07	08.3						
		F	Lost in next quake.								
84	Oct. 12	ePNE	18	17	19.9					4845	Ditto.
		L		21	24.1						
85	Oct. 13	F		52	±					4845	Ditto.
		ePNE	2	00	36.8						
86	Oct. 13	eSNE		04	00.4					4845	Ditto.
		M _E		06	19.9						
87	Oct. 13	M _N		06	45.1					4845	Ditto.
		F		32	±						
88	Oct. 15	iPNE	14	36	46.3					4845	NW off Noto, Isikawa Prefecture.
		iSNE		38	06.3						
89	Oct. 17	F		47	±					4845	Sumatra.
		eE	14	54	21						
90	Oct. 17	F		15	04 ±					4845	Sumatra.
		ePNE	0	15	06.3						
91	Oct. 18	eSe?		17	40.4					1470?	NE off Miyako.
		M _E		20	42.6						
92	Oct. 18	M _N		21	13.6					1470?	NE off Miyako.
		F	1	59	±						
93	Oct. 18	ePNE	5	54	46.4					1470?	Ditto.
		F		6	06 ±						
94	Oct. 18	ePNE	11	11	17.8					3040	Guam Is.

6. The Seismic Reports of Keizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
		eSNE	h m s 11 16 03.8	μ	μ	μ	s	km	
		L	19 24.4						
		F	12 17 ±						
89	Oct. 18	ePNE	14 57 03.2						Off Miyako.
		L	15 00 28.4						
		MN	01 41.9	+ 100		14.0			
		ME	02 43.5		- 140	14.0			
		F	59 ±						
90	Oct. 18	ePNE	21 54 35.6					1800	Ditto.
		eSNE	57 40.4						
		L	58 47.6						
		F	Lost in changing paper.						
91	Oct. 19	ePNE	0 54 49.6						Ditto.
		eLE	59 14.4						
		F	1 12 ±						
92	Oct. 19	ePNE	2 42 09.4						Ditto.
		eLN	46 12.2						
		F	3 01 ±						
93	Oct. 25	ePe?	17 48 08.3						
		F	57						
94	Nov. 1	PNE	16 27 38.3					2905	Tong-king Bay.
		SNE	32 13.9						
		INE	35 13.9						
		MN	37 21.2	+ 120		9.0			
		ME	37 25.2		+ 160	8.4			
		F	17 27 ±						
95	Nov. 11	eP'N	13 20 25.6						
		F	30 ±						
96	Nov. 12	P	Lost in changing paper.						Sumatra.
		F	22 05 ±						
97	Nov. 25	eP'N?	10 22 01.						Nicobar Is.
		eI,NE	26 26.6						
		ME	32 00.1		+ 71	13.8			
		MN	32 12.9	- 54		14.0			
		F	50 ±						
98	Dec. 2	eP'NE	5 15 17.1						Amami Ôsima.
		F	20 ±						
99	Dec. 2	P'N	16 45 20.4					890	Ditto.
		eSN	46 57.0						
		F	17 13 ±						

6. The Seismic Reports of Keizyo Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
			h m s	μ	μ	s	μ	km	
100	Dec. 2	ePNE F	19 02 01 05 ±						Ditto.
101	Dec. 7	iPNE iSNE F	11 11 53.4 12 19.2 Lost in next quake					192	Felt with intensity I. Western part of Keizyo-hokudō.
102	Dec. 7	PNE F	11 14 08.2 16 ±						Ditto.
103	Dec. 14	ePNE eSNE eINE F	12 52 08.3 54 11.7 55 32.7 13 07 ±					1150	Southern off Titizima.
104	Dec. 14	ePE? eI. F	22 29 33.6 24 57.6 23 56 ±						Central America.
105	Dec. 15	PNE eSNE eINE MN ME F	7 17 34.2 25 42.5 22 14.5 39 22.4 41 51.8 10 11 ±	+ 720	+ 290	15.6 18.6		6590	Solomon Is.
106	Dec. 17	iPN SE eIN ME MN F	19 21 07.2 23 59.8 25 52.8 27 44.5 28 09.0 20 06 ±	- 210	- 150	10.6 12.8	N 9	1665	Southern off Miyakozima.
107	Dec. 18	ePNE SN eINE F	7 15 23.3 19 21.3 22 00.2 53 ±					2410	Huei-lis, Szechwan, China.
108	Dec. 18	ePE? eIE F	8 13 25.5 17 44.5 30 ±						Ditto.
109	Dec. 18	PNE SNE eINE F	17 04 15.6 03 16.1 10 43.9 35 ±					2445	Ditto.
110	Dec. 19	ePNE eSNE F	13 21 40.1 25 31.1 56 ±					2320	Ditto.

6. The Seismic Reports of Keizyo Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
111	Dec. 20	ePNE	h	m	s	μ	μ	s	μ	km	Solomon Is.	
		eSNE	13	46	40.1							6274
		F	19	35	±							
112	Dec. 23	ePNE	14	48	19.6	μ	μ	s	μ	km	Tisima.	
		F	15	11	±							
113	Dec. 28	iPNE	2	43	49.7	-2090	-2690	26.0	μ	km	Batoe Is.	
		SNE	48	52.7								
		INE	56	29.7								
		ME	3	02	09.0							
		MX	03	13.3								
		F	4	52	±							
114	Dec. 29 30	ePNE	23	45	05.3	μ	μ	s	μ	km	New Guinea.	
		eSNE	51	16.3								
		F	0	21	±							

7. The Seismic Reports of Taikyû Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
1	Jan. 1	eP F	13	22	11.0						Pacific, SW of Samoa.
2	Jan. 3	eP eS L F	2	00	08.7	Disturbed by microseisms.				2760	Tibet.
				04	23.7						
				08	24.7						
				41	±						
3	Jan. 4	e e F	15	23	14.8						Turkey.
				26	20.8						
				45	03.						
4	Jan. 22	P F	0	35	25.1						South Amakusanada.
				39	27.						
5	Feb. 7	P eS F	17	34	10.9					2540	Luzon, Philippine.
				38	18.9						
				51	32.						
6	Feb. 9	iP S F	19	22	47.1	+ 65.3	+ 42.0	4.2 4.2	N 65.3 E 42.0	1890	So6, Formosa.
				25	59.8						
				43	53.						
7	Feb. 10	P S F	18	31	24.3					1077	Western off Titizima.
				33	30.0						
				40	51.						
8	Feb. 17	eL? eF	16	55	46.7						Off Karenkô.
			17	04	20.						
9	Feb. 19	P S F	20	12	47.6					1262	North part of Kuzyukuri-hama.
				15	01.8						
				24	22.						
10	Feb. 22	P S L F	17	13	15.5					2563	Aleutian Is.
				17	26.0						
				20	59.3						
			18	21	50.						
11	Feb. 23	eP S F	20	55	34.3					2260	Formosa.
				59	19.3						
			21	13	57.						
12	Feb. 24	P S F	3	13	20.3					1233	Ditto.
				15	21.6						
				18	27.						
13	Feb. 27	P eF	9	16	00.3						Netherland, E. India.
				27	41.						
14	Mar. 7	eP	10	31	28.4						Off Ozika Peninsula.

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						A _N	A _E					
			h	m	s	μ	μ	s	μ	km		
15	Mar. 7	F	10	38	46	10				324	Mt. Aso.	
		P	10	42	28.4							
		S	43	13.4								
16	Mar. 11	F	46	03						2027		
		P	11	24	16.3							
		S	27	42.0								
17	Mar. 20	F	33	54							Solomon Is.	
		eS?	23	14	34.9							
		L?	21	34.9								
18	Mar. 21	F	27	08								
		eP	0	16	07.7							
		F	27	08								
19	Mar. 28	P	23	49	46.1					830	SE off Vladivostok.	
		S	51	16.1								
		F	0	07	56							
20	Mar. 20	P	21	22	09.6					1840	NE off Siyazaki.	
		S	25	18.6								
		F	48	32								
21	Apr. 9	e	8	25	10.8						Middle region of River Tenryû.	
		F	27	19								
22	Apr. 11	eS?	1	38	11.2							
		L	40	37.0								
		P	2	30	26							
23	Apr. 11	eP	23	20	57.9						Teheran, Persia.	
		eL	46	10.3								
		F	0	22	58							
24	Apr. 15	P	11	16	47.6					709	NW part of Hida, Gihu Prefecture.	
		S	18	05.5								
		P	20	21								
25	Apr. 19	eP	15	36	20.0					8944	Libya, North Africa.	
		eS	46	27.7								
		F	16	51	01							
26	Apr. 20	iP	22	05	12.5	- 60.0	- 42.0	5.2	5.2	S 60.0 W 42.0	1666	Formosa.
		iS	08	05.1								
		L	09	32.6								
		M _N	10	56.7	- 142		6.7					
		M _E	11	01.2		+ 233	6.7					
		F	Lost in next quake									

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						AN	AE					
27	Apr. 20	iP	h	m	s	μ	μ	s	μ	km 1670	Ditto.	
		iS	22	33	51.8							
		F	23	14	20							
28	Apr. 21	P	19	20	24.1					1620	Ditto.	
		S	23	12.1								
		F	33	50								
29	Apr. 23	eP	16	52	10.5					3030		
		eS?	56	55.9								
		F	17	11	32							
30	May 4	P	23	05	46.9					2363	Formosa.	
		S	09	41.1								
		L	10	56.1								
		F	31	52								
31	May 7	eP	6	04	03.3						Davao.	
		F	18	42								
32	May 18	eP	2	15	36.5						?	
		eF	26	24								
33	May 18	eP	3	13	42.2						?	
		eF	23	23								
34	May 23	eP	6	11	13.1					509	Time uncertain, Ôita Prefecture.	
		S	12	21.6								
		eF	7	16	45							
35	May 24	eP	5	41	56.4					.2690	Philippine.	
		S	46	16.4								
		eL	52	30.4								
		F	7	09	45							
36	May 25	eP	0	13	19.8						Ditto.	
		F	32	33								
37	May 27	eP	23	01	34.4						?	
		F	26	12								
38	May 29	eP	19	50	15.5					1013	Formosa.	
		eS	52	04.8								
		F	57	44								
39	May 30	eP	21	42	02.4	- 5135					5830	Baluchistan, India.
		iS	49	29.4								
		eL	58	02.4								
		M _N	22	04	49.5							
		M _E	07	21.6								
		F	23	14	17							
						+ 4834	21.4	15.9				

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No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
40	June 1	eP eS? F	^h 14 ^m 46 ^s 04.4 49 20 9 58 22	μ	μ	S	μ	km 1925	Davao.
41	June 2	P F	0 48 03.6 48 13.4		+ 3.7		E 3.7		Local, Eisyû. Upper reaches of River Rakutô-kô.
42	June 9	eS? F	6 42 09.9 51 15						Formosa.
43	June 10	eP F	6 54 23.0 59 26						NNW off Hatizyôzima.
44	June 14	P F	21 11 53.4 20 06						South off Katsuura.
45	June 18	P S F	22 22 52.6 27 08.1 22 14 50					2633	Borongan.
46	June 24 25	P S SS L F	23 32 31.1 41 53.1 42 48.6 49 52.1 0 21 07					6860	New Hebrides Is.
47	June 25	P eS L F	12 38 09.6 41 37.4 44 09.6 13 08 29					2052	SE off Etoro Is.
48	June 28	P S F	19 00 16.4 02 04.0 13 42					996	South sea off Katsuura.
49	July 5	iP iS F	9 13 10.8 14 39.7 25 43					819	
50	July 5	P eS L F	18 01 40.3 08 40.3 22 52.2 35 26					5220	Turkestan.
51	July 7	eP eS F	13 27 08.5 31 29.8 14 04 16					2710	Iuzon.
52	July 11	iP eS L F	8 26 36.9 28 29.5 29 08.4 51 43					1046	Sizuoka.

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
53	July 15	e eF?	^h 4 ^m 17 ^s 53.1	21	21					Local ?	
54	July 16	P S F	15	01 01 10	11.0 42.0 39				230	Western part of Yamaguti Prefecture.	
55	July 16	P S L F	16	22 24 26 59	10.7 52.7 24.7 38				1550	Formosa.	
56	July 19	iP S F	0	52 54 1	21.7 21.7 5?				1120	Kasimaada.	
57	July 23	eP eS eF	13	02 03 12	08.9 15.9 00				497	Hamamura, Tottori Prefecture.	
58	July 26	P S F	8	07 10 16	12.5 11.9 00				1726	SE off Kitasiretoko-misaki.	
59	July 26	P S L F	10	37 41 45 11	26.9 41.9 56.9 06				2625	Tibet.	
60	July 28	P F	14	44 44	07.5 28					Local, Eidd, South Tyâsen.	
61	July 29	P S F	4	18 21 26	03.7 25.9 09				1922		
62	July 29	P S? L F	7	49 59 8 27	54.9 02.1 42.2 33				7740?	Tonga Is.	
63	Aug. 1	P S F	14	11 16 43	51.6 03.4 44				2648	Philippine deep.	
64	Aug. 3	P S L F	1	18 24 29 2	07.1 37.8 23.3 13				4739	Sumatra.	
65	Aug. 3	eP S F	11	50 55 12	42.9 08.6 15				2767	Ditto.	

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
66	Aug. 3	eP F	13	28	03.9						Ditto.
				38	13						
67	Aug. 17	P S? I. FF	1	55	51.0					5810	Loyalty Is.
			2	03	17.2						
				09	02.0						
				45	23						
68	Aug. 18	eI? eF	4	28	56.4						?
				40	±						
69	Aug. 23	eS L F	14	13	28.2						Sumatra.
				24	18.6						
				42	36						
70	Aug. 25	eI? F	1	41	25.9						?
				52	±						
71	Aug. 26	eP S L F	16	34	22.9					1850	Isigakizima.
				37	32.9						
				40	38.9						
			17	02	59						
72	Aug. 27	eP S F	5	24	23.0					1940	Ditto.
				27	41.0						
				57	57						
73	Aug. 31	P S F	17	44	09.5					2280	Samar Is.
				47	56.5						
			18	03	43						
74	Sep. 3	eP? F	11	02	33.8						Off Miyakozima.
				15	14						
75	Sep. 4	iP iS F	1	41	15.1	- 13	+ 13		S 13 E 13	1663	Formosa.
				44	07.4						
			2	30	32						
76	Sep. 4	P S L F	3	31	32.0					1745	Ditto.
				34	32.0						
				36	48.0						
			4	01	30						
77	Sep. 9	P S F	5	14	36.1					680	Amakusa, Kyûsyû.
				15	50.4						
				19	32						
78	Sep. 9	P eS? eI? F	6	24	02.2					3295	Micronecia.
				29	06.2						
				34	48.2						
			7	07	52						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						A _N	A _E				
79	Sep. 11	P	h	m	s	μ	μ	s	μ	km 1704	SE off Kusiro.
		S									
		F									
80	Sep. 15	eL?	11	30	20.6						California.
		F		51	46						
81	Sep. 16	eP	15	35	04.9						
		F		54	41						
82	Sep. 16	eP	20	57	45.2						
		F		21	12	40					
83	Sep. 18	iP	8	30	24.8	— 8	— 9		S 8 W 9	788	SW off Urakawa.
		eS		32	08.3						
		L		34	10.5						
		F		50	29						
84	Sep. 18	P	8	56	40.7						Ditto.
		eF		9	07	53					
85	Sep. 20	P	1	54	27.4					2245	New Guinea.
		S			58	12.4					
		L		2	03	27.4					
		F		4	11	27					
86	Sep. 20	P	5	30	54.8					4520	Ditto.
		e			33	32.8					
		S			37	10.8					
		F		6	44	27					
87	Sep. 20	eP	21	10	50.2						
		eF			34	24					
88	Sep. 20	eP	21	49	02.1						
		eF			54	24					
89	Sep. 23	eP	9	26	05.0					3524	
		eS			31	23.6					
		F		10	10	35					
90	Sep. 25	eP	10	27	25.2					4628	New Guinea.
		eS			33	47.1					
		eF			54	47					
91	Sep. 30	P	0	13	30.5						Tiba.
		eL			18	10.8					
		F			28	15					
92	Oct. 2	P	5	36	40.4					1745	Off Otiisisaki.
		S			39	40.4					

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			b	m	s	μ	μ	s	μ	km	
93	Oct. 2	L	5	41	44.7					561	Off Satamisaki.
		P	6	03	23						
		P	9	23	54.6						
94	Oct. 8	S		29	56.7						Central Asia.
		F		35	31						
		eL?	9	42	35.3						
95	Oct. 11	eF		59	32						New Guinea.
		eP	22	23	47.6						
		L?		25	42.3						
96	Oct. 12	F		59	47					1655	NE off Miyako.
		iP	16	48	22.2						
		S		51	13.7						
97	Oct. 12	F	Lost in next quake.								NE off Miyako.
		P	17	04	28.1						
		eS?		06	11.5						
98	Oct. 12	F	Lost in next quake.								Ditto.
		P	18	17	11.9						
		F		44	02						
99	Oct. 13	P	2	00	31.5					1640	Ditto.
		eS		03	21.3						
		F		25	11						
100	Oct. 15	P	14	36	36.0					655	NW off Noto Peninsula.
		S		37	47.5						
		F		49	24						
101	Oct. 18	P	0	15	05.8					1386	Time uncertain, NE off Miyako.
		eS		17	31.5						
		L		18	22.9						
		F	1	35	06						
102	Oct. 18	P	11	10	58.9					2841	Guam Is.
		S		15	30.0						
		L		19	04.2						
		F	12	12	09						
103	Oct. 18	P	14	56	59.3					561	Time uncertain, Off Miyako.
		S		58	01.4						
		L	15	01	25.0						
		F		29	10						
104	Oct. 18	P	21	54	11.0					723	Time uncertain Off Miyako.
		S		55	30.3						
		F	22	10	56						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						A _N	A _E					
			h	m	s	μ	μ	s	μ	km		
105	Oct. 18	P F	0	54	40.5						Time uncertain.	
106	Nov. 1	P S I. F	16	27	46.5					2930	Tonking Bay.	
				32	24.4							
				35	32.7							
			17	22	43							
107	Nov. 6	P F	13	17	09.3							
				26	36							
108	Nov. 11	P F	13	49	06.1				E 2.8		Felt in Naizyô, Keisyô hokudô.	
				49	26							
109	Nov. 12	I? F	21	49	22.2						Sumatra.	
			22	12	53							
110	Nov. 14	eP F	20	11	08.5						New Guinea.	
				17	13							
111	Nov. 18	P? F	23	42	24.7						Nakagawa, Tokushima.	
				47	44							
112	Nov. 22	P? F	1	25	46.4						Local ?	
				31	28							
112?	Nov. 23	eP eF	0	13	44.6						?	
				18	26							
114	Nov. 25	eP eS eI. eF	10	09	57.6					6297	Nicolac Is.	
				17	50.3							
				25	28.3							
				52	02							
115	Nov. 26	eI. eF	18	54	09.3							
				13	23							
116	Dec. 1	P S F	23	46	56.2					863	Amaniôshima.	
	2			48	30.5							
				0	11 46							
117	Dec. 2	eP S F	16	44	25.4					1060	Ditto.	
				46	19.5							
				17	08 14							
118	Dec. 7	P I. MEN F	11	11	30.6	— 5.6	— 5.5		S 5.6 W 5.5	73	Seismic intensity I.	
				11	40.4							
				11	40.9	— 33	— 55	0.07				
			Lost in next quake.									
119	Dec. 7	P	11	13	30.0						Aftershock of No. 118.	

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
1	Jan. 1	P?	^h 13 ^{mi} 32 ^s 03.7	μ	μ	s	μ	7740 ^{km}	Pacific, SW of Samoa.
		S	41 10.7						
		F	14 07 58.6						
2	Jan. 2	eP	1 57 16.4	±	1	34.3		3325	Tibet.
		S	2 02 22.4						
		M _N	09 18.2						
		F	49 51						
3	Jan. 4	L	15 24 06.4						Turkey.
		F	56 47						
4	Jan. 4	eL	17 06 26.3						Ditto.
		F	27 46						
5	Jan. 22	P	0 34 12.7					328	South Amakusanada.
		S	34 57.0						
		M _E	25 09.5						
		F	41 29						
6	Jan. 30	P	0 49 17.4					859	
		S	50 50.3						
		L	53 05.0						
		F	1 00 57						
7	Feb. 4	e	20 10 59.1						Iyonada.
		F	17 48						
8	Feb. 4	e	21 19 30.5						Philippine.
		F	29 48						
9	Feb. 7	P	17 34 00.7					2616	Luzon.
		S	38 15.1						
		F	18 08 44						
10	Feb. 9	iP	19 22 37.2					2583	Soô, Formosa.
		S	26 48.7						
		F	49 15						
11	Feb. 10	iP	18 31 42.9	+	-		N ward W ward	997	Western off Titizima.
		S	33 30.6						
		F	57 12						
12	Feb. 17	eP	16 20 38.7					680	Off Karenkô.
		eS	21 52.7						
		F	32 05						
13	Feb. 19	eP	20 13 04.6					1084	North part of Kuzûkuri-hama.
		S	15 01.0						
		F	30 01						

S. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				AN	AE				
14	Feb. 22	eP	8 58 29.3	μ	ν	σ	ρ	2605 ^{km}	Formosa,
		eS	9 02 42.8						
		L	04 07.7						
		F	16 03						
15	Feb. 22	eP	17 13 05.3					4454	Aleutian Is.
		S	19 18.0						
		F	18 19 03						
16	Mar. 2	P	6 04 16.5					1095	Local,
		S	06 14.0						
		F	17 59						
17	Mar. 7	eP	10 29 06.6						Off Ozika Peninsula,
		L	33 02.3						
		F	Lost in next quake.						
18	Mar. 7	P	10 42 04.1					233	Mt. Aso,
		iS	42 35.5						
		F	53 06						
19	Mar. 8	P	0 46 31.0					430	Ditto.
		S	47 28.8						
		F	53 06						
20	Mar. 11	eS	11 25 46.1						
		F	44 09						
21	Mar. 20	S	23 13 32.7						Solomon Island,
		eL	21 13.0						
		F	37 33						
22	Mar. 21	eS	0 16 22.4						
		F	30 30						
23	Mar. 28	eP	23 49 52.3					887	SE off Vladivostok,
		eS	51 29.0						
		F	0 08 16						
24	Mar. 30	P	21 21 52.0					1657	NE off Siyazaki,
		S	24 43.7						
		F	57 23						
25	Apr. 9	S	8 22 22.5						Middle region of the River, Tenryû,
		F	30 30						
26	Apr. 11	eS	1 37 52.4						
		F	2 02 30						
27	Apr. 11	eP	23 21 49.2					1772	Teheran, Persia.
		S	24 51.5						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	f	μ	km	
28	Apr. 19	eL	23	33	02.7					8982	Libya, North Africa.
		F	0	23	30						
		P	15	36	27.0						
		S		46	26.6						
29	Apr. 20	L	16	13	04.6						Tripoli, Africa.
		F	17	04	32						
		eS	5	34	28.2						
30	Apr. 20	F	45	32							The Nero deep.
		eS	11	15	57.2						
31	Apr. 20	F	20	32						1444	Time uncertain. Sintiku, Formosa.
		eP	22	05	14.5						
		S	07	45.9							
		M _{1E}	09	51.2	- 138	6.1					
		M _{2E}	10	25.9	- 145	6.1					
		M _{3E}	13	48.6	+ 281	9.6					
		M _{4E}	14	37.5	+ 252	8.7					
F	15	32									
32	Apr. 20	P	22	33	59.3					1506	Time uncertain. Ditto.
		S		36	36.9						
		F	23	15	32						
33	Apr. 21	eP	19	20	17.1					2140	Ditto.
		e		21	15.3						
		S		22	52.5						
		F		42	39						
34	Apr. 22	eP?	5	11	45.5						Ditto.
		eS?		14	23.9						
		eF		26	39						
35	Apr. 23	eS	3	25	29.4						Ditto.
		L		27	52.1						
		F		47	40						
36	Apr. 23	eP?	16	51	54.3						
		eL		57	46.8						
		F	17	13	41						
37	May 4	P	23	05	33.8					2147	Ditto.
		S		10	09.6						
		F		42	03						
38	May 6	eS	17	47	23.3						Karenko.
		F	18	02	03						
39	May 7	eP	6	02	24.4					2419	East off Mindanao.

6. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	NE				
			h	m	s	μ	μ	s	μ	km	
40	May 8	S	06	23.0							
		F	35	02							
		eP?	6	13	02.0					5320	?
		eS	20	03.0							
41	May 9	F	41	03							
		e	13	11	03.0						?
		F	55	03							
42	May 10	S	17	20	37.9						Between Burma & Siam.
		F	37	05							
43	May 13	eP	20	02	13.9					5412	Ditto.
		iS	09	24.5							
		MN	10	02.0	± 260		18.8				
		ME	10	36.2		± 120	16.1				
		F	47	11							
44	May 20	eS?	5	36	58.6						East off Mindanao.
		F	6	00	26						
45	May 21	iP	6	59	47.4				N ward	4723	New Guinea.
		iS	7	06	14.6				W ward		
		eL	12	18.9							
		F	29	29							
46	May 23	iP	6	10	59.1				N ward	368	River Ôno, Ôita Prefecture.
		S	11	48.7					W wrd		
		L?	12	25.5							
		F	18	33							
47	May 24	P	5	41	36.0					2618	Philippine.
		S	45	50.5							
		F	6	54	34						
48	May 25	P	0	13	04.6					2566	Ditto.
		S	17	15.0							
		P	1	13	41						
49	May 26	P	22	08	53.0					2565	Borongon.
		S	13	09.3							
		L	19	05.1							
		F	55	09							
50	May 28	eS?	17	04	44.2						SE off Etorô Is.
		F	18	50							
51	May 29	eS	19	50	08.6						Formosa.
		F	Lost in next quake								

S. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
52	May 29	eS F	20	09	33.8						
				24	53						
53	May 20	eP eS F	19	18	02.9					628	Northern off Amamiōshima,
				13	11.7						
				25	56						
54	May 20	iP S ME F	21	42	05.8				W ward	5319	Baluchistan, India.
				49	04.4						
			22	07	24.0		± 1114	18.8			
			23	58	57						
55	May 31	iP iS MN ME F	8	20	04.1	- 14.3	- 26.5	3.0 3.6	S 14.3 W 26.5	562	Middle part of Japan sea.
				21	06.4						
				21	18.7	+ 72		2.9			
				21	18.8		- 97	4.4			
				45	58						
56	June 1	P e eS? F	14	45	29.9					2717	Davao, Mindanao.
				46	24.1						
				49	51.7						
				15	08 02						
											Baluchistan, India.
57	June 2	P? L F	9	25	34.8						
				45	20.8						
				10	26 04						
58	June 7	eP? S F	2	54	57.0					2212	Local, Upper reaches of the River, Rakutōkō.
				58	38.2						
				2	17 14						
											2711 South China sea.
59	June 3	eP S F	6	29	10.4						
				43	21.8						
				7	16 18						
60	June 10	eP eS F	6	54	12.3					1548	NNW off Hatizyōzima
				56	54.1						
				7	17 21						
61	June 14	e F	21	10	57.3						Southern off Katuura, Tiba Prefecture.
				23	21						
62	June 18	eP S F	22	20	35.0					4649	Philippine.
				26	58.2						
				23	12 17						
63	June 24	iP eS SS? eL F	22	23	26.3					2717	New Hebrides Is.
				27	48.1						
				44	10.8						
				49	11.6						
	25		0	43	27						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
64	June 25	iP	h	m	s	μ	μ	s	μ	km	Kurile Islands.
			12	38	12.3						
		eS		41	42.1						
		eL		43	55.0						
		F	13	19	39						
65	July 28	eP	19	00	07.5					1097	Southern off Katuura.
		eS		02	05.4						
		F		14	47						
66	July 5	iP	9	13	04.0	+	2	2.2	E	2	746
		S		14	25.6						
		F		24	09						
67	July 5	P	18	01	46.4					5408	Turkestan.
		S		08	50.8						
		L		23	39.7						
		F		54	11						
68	July 7	eP	13	27	30.3					2214	Iuzon, Philippine.
		S		31	11.7						
		L		34	27.2						
		F	14	11	18						
69	July 11	P	8	26	38.3					853	Sizuoka.
		S		28	10.6						
		L		28	38.4						
		ME		29	21.6						
		F	9	03	32						
70	July 12	eL?	1	52	17.5						
		F	2	11	34						
71	July 16	iP	15	00	57.2					184	Western part of Yamaguti Prefecture.
		S		01	20.2						
		iL		01	21.9						
		ME		01	31.3						
		F		15	25						
72	July 16	L	15	33	39.0					?	
		F		41	51						
73	July 16	P	16	22	02.4					1644	Sintiku, Formosa.
		S		24	52.8						
		L		26	21.3						
		ME		29	24.3						
		F	17	06	51						
74	July 16	eL	20	12	32.9					Philippine deep.	
		F		23	51						
75	July 19	eP	0	52	07.6					1144	Kasimanada.

8. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion		Δ	Remarks
						AN	AE		μ	μ		
			h	m	s	k	μ	s	μ	km		
		S	0	54	10.0							
		L?		54	32.0							
		ME		56	42.4		+ 328	15.9				
		SeS?	1	01	40.1							
		F	2	07	59							
76	July 23	P	18	02	03.7					482	Hamamura, Tottori Prefecture.	
		S		02	59.7							
		F		11	14							
77	July 26	eP	8	07	17.7					1358	SE off Kitasiretokomisaki.	
		S		10	17.5							
		F		27	26							
78	July 26	P	10	37	26.0					2744	Tibet.	
		S?		41	49.9							
		F		11	16 26							
79	July 27	iP	10	16	55.9		+ 2	2.4	E 2	1814	Gulf of Tartary.	
		S?		20	02.3							
		F		28	29							
80	July 28	iP	14	44	29.2		- 1	1.9	W 1	134	Eidōmen, South Tyōsen.	
		PP		44	20.4							
		eS?		44	46.3							
		F		45	05							
81	July 29	eP	4	17	56.7					1878		
		S		21	08.6							
		F		43	21							
82	July 29	P	7	49	47.7					7642	Tonga Is.	
		e		52	35.9							
		S?		58	49.8							
		F		9	01 36							
83	Aug. 1	eP	14	11	43.6					2646	Philippine deep.	
		S		15	59.2							
		F		15	06 49							
84	Aug. 3	P	1	18	03.6					4877	Sumatra.	
		S		24	39.5							
		L?		29	45.7							
		e		26	02.9							
		F		2	45 54							
85	Aug. 3	e	13	05	26.6						Ditto.	
		F		48	56							
86	Aug. 17	eP	1	55	43.9					7940	Loyalty Is.	
		eS		2	05 00.9							

8. The Seismic Reports of Husau Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AS	AE				
			h	m	s	μ	μ	s	μ	km	
		L	2	12	59.8						
		F		59	34						
87	Aug. 23	e	14	06	19.1						Sumatra,
		L		21	47.4						
		F		50	56						
88	Aug. 25	e	5	33	29.7						Spitzbergen,
		eL		38	49.9						
		F	6	04	01						
89	Aug. 26	eP	16	37	15.8					1721	Igakizima,
		S		40	13.9						
		L		40	25.6						
		F		02	05						
90	Aug. 27	eP	5	27	17.4						Ditto,
		L		29	49.9						
		F		50	03						
91	Aug. 31	P	17	44	12.6					2090	Samar Island,
		S		47	43.6						
		L		50	12.9						
		F	18	15	20						
92	Sep. 3	eP	11	01	43.9					1884	Sea off Miyakozima,
		S		04	56.5						
		F		23	28						
93	Sep. 4	iP	1	41	07.3	— 2.9		2.6	S 2.9	1533	Formosa,
		S		43	48.1						
		L		44	58.2						
		M _X		49	42.4	— 288		12.9			
		F	2	42	29						
94	Sep. 4	iP	3	31	25.3					1578	Ditto,
		eS		34	09.8						
		L		36	01.0						
		F	4	03	30						
95	Sep. 9	eP	5	14	16.4					211	Amakusa, Kyûsyû,
		S		14	42.5						
		L		14	53.8						
		M _X		14	59.4	— 8.3		1.9			
		F		17	43						
96	Sep. 9	eP	6	23	55.8					3038	SW part of Micronocia,
		S		28	41.6						
		L		30	18.9						
		F	7	15	44						

S. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks				
						AN	AE								
97	Sep. 11	iP	h	m	s	+	μ	μ	s	N	μ	4.3	1984	SE off Kusiro.	
		PP	14	07	43.8										
		S		08	02.7										
		eL		11	05.2										
		SeS		12	07.6										
98	Sep. 14	S?		19	53.2									SE off Hatizyozima.	
		F	15	59	04										
99	Sep. 15	eP?	8	30	25.3								5122		
		eS		40	55										
		eF	11	23	43.0										
100	Sep. 15	eS		30	32.0										
		eF	12	10	58										
101	Sep. 18	eL	15	11	24.7									2117	SW off Urakawa.
		eF		36	58										
		P	8	26	57.7										
		PP		27	20.2										
		PP		27	31.7										
102	Sep. 18	S		30	31.4									1748	Ditto.
		F	Lost in next quake												
		P	8	53	11.0										
		PP		53	25.5										
		S		53	11.2										
103	Sep. 18	F	9	07	00									1461	E off Siriyazaki.
		eP	20	12	13.3										
		eS		14	46.4										
104	Sep. 20	F		27	00									4844	New Guinea.
		eP	20	12	13.3										
		eS		14	46.4										
		eL		03	10.7										
		MN ₁		05	00.9										
105	Sep. 20	MN ₂		05	00.9	-4680 ±1109								4356	Ditto.
		F		03	12										
		P	5	30	48.4										
		S		36	55.8										
		L		40	11.7										
106	Sep. 20	F	7	02	33										
		eP?	21	15	20.8										
107	Sep. 21	eF		35	25										
		eS	12	04	05.4										
108	Sep. 23	eF		13	08									Off Tanegasima.	
		e	9	27	28.8										

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No	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	μ	μ	s	μ	km	
109	Sep. 30	L	9	35	27.8					1491	Tiba.
		F	10	04	59						
		eP	0	10	56.4						
110	Oct. 2	S	13	32.5					1826	Sea off Otiisizaki.	
		F	30	48							
		iP	5	36	47.1						
111	Oct. 2	S	39	54.7					382	Off Satamisaki.	
		L	41	26.3							
		eF	6	13	20						
112	Oct. 8	eP	9	29	08.2				382	Off Satamisaki.	
		S	29	59.9							
		eF	35	20							
113	Oct. 11	eL	9	44	40.9				4546	New Guinea.	
		F	10	12	49						
114	Oct. 12	eP	22	23	39.6				1698	NE off Miyako.	
		eS	29	56.9							
		L	32	53.0							
		eF	23	23	16						
115	Oct. 12	P	16	48	20.5				+ 362	13.8	
		eS	51	16.3							
		L	52	47.5							
		Me	53	59.8							
116	Oct. 12	F	Lost in next quake								
		eP	17	03	28.5				1038	Ditto.	
		eS	05	20.3							
F	Lost in next quake										
117	Oct. 13	P	18	17	07.2				1623	Ditto.	
		eL	22	05.7							
		F	19	15	58						
118	Oct. 15	P	2	00	28.7				651	NW off Noto Peninsula.	
		eS	03	17.0							
		eL	05	21.7							
		eF	34	14							
119	Oct. 17	iP	14	36	35.6				1982	Sumatra.	
		iS	37	46.7							
		F	53	16							
120	Oct. 18	e	14	56	41.1				1982	NE off Miyako.	
		F	15	04	12						

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No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
			h	m	s	u	v	s	u	km	
121	Oct. 18	eS	0	18	19.5					2029	Guam Is.
		ME ₁	20	54.5		± 750	25.3				
		ME ₂	21	43.8		± 550	23.8				
		F	1	39	21						
122	Oct. 18	P	11	10	50.4					1892	Off Miyako.
		eS	14	16.3							
		F	12	23	48						
		P	14	56	55.0						
123	Oct. 18	eS	15	00	08.2					± 375	26.1
		eL	01	51.1							
		ME	03	04.7							
		ScS?	08	49.4							
		F	38	00							
		P	21	54	28.2						
124	Oct. 18	eL	59	59.7						Ditto.	
		F	22	19	44						
		P	0	54	38.2						
125	Oct. 19	eL	59	35.4						Ditto.	
		eF	1	15	20						
		P	2	41	59.8						
126	Nov. 1	L	47	00.9						Ditto.	
		F	3	02	56						
		eP	16	27	46.6						
127	Nov 30	S	32	19.8						± 156	9.3
		L	36	35.0							
		MX	38	38.8							
		F	17	37	59						
		e	3	42	25.5						
128	Dec. 1	eF	52	22						+ 57	4.7
		eP	23	46	25.9						
		S	47	40.8							
		ME	48	59.8							
		ScS	57	50.4							
129	Dec. 2	F	Lost in next quake								Ditto.
		eS	0	28	52.0						
130	Dec. 2	eF	39	15						Ditto.	
		eS	4	36	08.3						
131	Dec. 2	eF	53	14						Ditto.	
		e	5	13	30.2						
		eF	28	14							

S. The Seismic Reports of Husan Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks		
						A _N	A _E						
132	Dec. 2	P	h	m	s	μ	μ	s	μ	km	Amamiōsima.		
		S	16	44	35.6							854	
		M _E		46	08.0								
		eF		46	33.7								
	17	12	13	+ 58	5.7								
133	Dec. 7	iP	11	11	40.5	- 4.4		1.2	S 4.4	137	West part of Keisyō-hokudō.		
		iS		11	58.9								
		eF		17	55								
134	Dec. 14	eP	1	49	55.2						Upper reaches of River, Amazon.		
		eF		56	49								
135	Dec. 14	eP	12	51	31.6					1368	Southern off Titzima.		
		S		54	42.1								
		eF		13	16							47	
136	Dec. 14	L	22	37	59.2						Central America.		
		eF		23	54							44	
137	Dec. 15	P	7	17	13.2					6180	Solomon Is.		
		S		25	04.2								
		L		31	17.3								
		M _{E1}		34	07.1							± 480	22.6
		M _N		38	30.3							+ 425	17.6
		M _{E2}		38	58.0							± 246	14.8
		F		9	58							42	
138	Dec. 17	iP	19	20	35.7	+ 7	+ 3	3.5 3.0	N 7 E 3	1426	Southern off Miyakojima.		
		S		23	05.3								
		L		23	45.4								
		M _{E1}		24	48.7							+1280	22.3
		M _N		25	03.0							± 500	20.5
		M _{E2}		26	41.7							- 336	13.7
		e		35	45.9								
		eF		20	23							45	
139	Dec. 18	eP	7	15	33.4					4265	Sze-chwan, China.		
		S		19	40.9								
		F		43	42								
140	Dec. 18	eP	8	16	54.2					1425	Ditto.		
		eS		19	23.7								
		eF		37	41.7								
141	Dec. 18	P	17	07	31.4					2484	Ditto.		
		S		08	35.3								
		eF		33	39								
142	Dec. 19	e	9	54	18.0						Ditto.		
		eF		10	09							35	

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	ΔE				
1	Jan. 1	iP eS F	h 13	m 32	s 32.8	μ	μ	s	μ	km 3254	Pacific, SW of Samoa.
2	Jan. 3	eI? F	1	56	57.9						Tibet.
3	Jan. 18	P _N F	17	17	17.2						Off Isigakizima.
4	Jan. 22	P F	0	37	12.9						South Amakusanada.
5	Jan. 23	P F	7	32	25.2						Aleutian Islands.
6	Jan. 30	P F	0	48	27.4						
7	Feb. 9	P S L F	19	23	12.5					1780	Soô Formosa.
8	Feb. 22	P eS? ME ₁ ME ₂ F	17	13	20.7					3855	Aleutian.
						±	4	15			
9	Mar. 28 29	P S F	23	49	28.6					730	SE off Vladivostok.
10	Apr. 19	P? F	15	54	51.4						Libya, North Africa.
11	Apr. 20	iP _N eS L ME M _N L F	22	05	36.0					1740	Formosa.
				08	36.0						
				09	58.5						
				11	24.0						
				12	25.0						
				24	00.0						
			23	16	00						
12	May 4	eP F	23	10	11.4						Formosa.
				28	39						
13	May 13	eP F	20	08	42.2						Between Yunnan & Burma.
				26	36						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
14	May 24	eP?	h	m	s	μ	μ	s	μ	km 3630	Philippine.
		S	5	41	23.7						
		F	7	23	36						
15	May 29	eP	19	50	44.7						Formosa,
		F	20	03	37						
16	May 30	P	21	41	42.9					5570	Baluchistan, India.
		S	48	56.4							
		L	59	27.9							
		M _N	22	03	27.9						
		M _E	06	24.9							
		c	13	24.9							
F	23	25	03								
17	May 31	iP _E	8	20	18.7					584	Middle Japan sea.
		S	21	37.3							
		i	32	40.6							
		F	43	47							
18	June 24 25	P	23	33	57.6						New Hebrides Is.
		S	42	50.4							
		F	0	32	45						
19	June 25	P	12	38	08.2					2220	Kurile Islands.
		S	41	50.2							
		L	45	08.2							
		M	47	14.2							
		F	13	24	44						
20	June 28	P	19	00	48.4						Southern off Katura.
		F	17	42							
21	July 7	c	13	25	43.8						Luzon.
		L	32	12.0							
		F	55	36							
22	July 11	P	8	27	29.5					1258	Sizuoka.
		eS	29	43.3							
		L	31	43.3							
		F	52	04							
23	July 16	eP?	15	02	42.7					640	Western part of Yamakuti Prefecture.
		L	03	52.7							
		F	09	16							
24	July 16	P	16	22	35.2					1695	Formosa.
		eS	25	30.7							
		L	27	03.7							
		M _E	27	27.7							
		M _N	28	51.7							
		F	44	51							

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks	
						A _N	A _E					
			h	m	s	μ	μ	s	μ	km		
25	July 19	P	0	52	52.8					1300	Kasimanada.	
		eS		55	11.1							
		L _N		57	14.7							
		F		23	10							
26	July 26	eP	8	09	59.8						SE off Kitasiretoko.	
		F		42	23							
27	July 26	P	10	37	02.1					2320	Tibet.	
		S		40	52.5							
		L		43	40.5							
		M		47	10.5							
		F		11	20	23						
28	Aug. 3	P	1	18	10.2					4755	Sumatra.	
		S		24	29.0							
		L		31	23.0							
		M _E		36	22.5							
		M _N		39	02.0	\pm 23	+ 23	13.5				
		c		43	24.0			12.0				
		F		2	03	18						
29	Aug. 26	eP	16	38	30.5						Isigakizima.	
		F		50	54							
30	Aug. 27	eP	5	29	35.8						Ditto.	
		F		41	33							
31	Sep. 4	P	1	41	44.9					1890	Formosa.	
		S		44	57.5							
		L		47	17.0							
		M		48	06.8							
		F		2	17	20						
32	Sep. 9	eP	6	24	32.3					2660	SW part of Micronecia.	
		eS		29	59.8							
		ef.		32	50.8							
		F		7	06	58						
33	Sep. 11	iP	14	07	48.9					1875	SE off Kusiro.	
		iS		11	00.9							
		F		15	04	29						
34	Sep. 13	P	8	27	07.5						SW off Urakawa.	
		F		43	57							
35	Sep. 20	eP	1	54	56.1					4995	New Guinea.	
		S		2	01	37.8						
		L		05	03.6							
		M _E		07	42.6							
		M _N		11	57.0	- 46	- 64	24	21			

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.	Amplitude		Period	First motion	Δ	Remarks
				A _N	A _E				
			h m s	μ	μ	s	μ	km	
36	Sep. 20	e	2 23 39.6					5060	Ditto.
		F	2 50 14						
		eP?	5 31 27.1						
		eS	38 12.4						
37	Oct. 2	L	41 49.6					1680	Off Otisizaki.
		F	6 29 53						
		P	5 36 45.8						
		S	39 39.8						
38	Oct. 12	F	6 08 17					1780	NE off Miyako.
		P	16 48 38.0						
		S	51 41.0						
		L	53 24.5						
39	Oct. 12	ME	53 57.5		± 20	15.0		Ditto.	
		MN	54 22.1	± 20		12.5			
		i	17 03 53.0						
		F	48 34						
		eP	18 17 36.3						
		e	18 42.3						
40	Oct. 13	F	31 03					Ditto.	
		P	02 00 47.3						
41	Oct. 18	F	24 02					1635	Ditto.
		P	0 15 15.8						
42	Oct. 18	S	18 05.3					3205	Guam Is.
		L	20 08.3						
		ME	21 42.2		- 24	13.8			
		MN	23 31.7	± 40		12.0			
		F	1 11 34						
		eP	11 11 33.6						
43	Oct. 18	S	16 30.6					1915	Off Miyako.
		L	20 53.1						
		F	12 22 33						
		P	14 58 09.9						
44	Nov. 1	S	15 01 25.4					3325	Tonking Bay.
		F	16 07 32						
		eP	16 24 56.1						
		S	30 02.1						
45	Dec. 14	L	33 53.1					Southern off Titizima.	
		M	35 15.1						
		F	17 18 ±						
		eP	12 52 19.5						
45	Dec. 14	i	56 07.5					Southern off Titizima.	
		F	13 04 ±						

9. The Seismic Reports of Heizyô Meteorological Observatory in the Year 1935.

No.	Date	Phase	G. M. T.			Amplitude		Period	First motion	Δ	Remarks
						AN	AE				
46	Dec. 15	eP	h	m	s	μ	μ	S	μ	6780 km	Solomon Is.
			7	17	47.6						
		S		26	05.6						
		L		34	02.6						
		M		40	56.6						
		F	8	14	±						
47	Dec. 17	P	19	21	26.1					1910	Off Miyako.
		S		24	41.1						
		L		26	44.1						
		M		27	47.1						
		F		55	±						
48	Dec. 18	P	7	15	20.0					2440	Sze-chwan, China.
		S		19	20.0						
		L		22	05.0						
		F		42	±						
49	Dec. 18	P	17	04	14.4					2330	Ditto.
		S		08	05.4						
		L		10	50.4						
		F		26	±						
50	Dec. 23	P	2	43	55.3					5314	Batoe Is.
		S		50	54.7						
		L		57	33.7						
		M	3	05	15.7						
		M		06	12.7						
		c		22	03.7						
		F	4	20	±						

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The Seismological Bulletin
of
Weather Bureau of Tyōsen
For the Year
1936

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Compiled
By
Weather Bureau of Tyōsen,
The Government General of Tyōsen,
Zinsen, Tyōsen, Nippon.
1938

Preface.

The present volume is the fourth one of the new series of the Seismological Bulletin of Weather Bureau of Tyōsen, the Government General of Tyōsen, which was put in circulation once a year quite independent of the Annual Report of the Meteorology of this bureau since the year 1933. Now-a-days, in Tyōsen, slight attention is given to the study of earthquake owing to a minority of local shocks. Nevertheless, about 300 years ago, at an active period, frequent strong shocks were experienced all over the peninsula and inflicted severe damage to the buildings and human beings. Therefore, the seismological observation must not be neglected even in the present time of less activity.

Accordingly, in this report, whole the local shocks occurred in the peninsula and its neighbouring seas are described with minute description of their seismometrical elements observed at this bureau and the other local observatories. Moreover, near and distant earthquakes which are observed at the above mentioned observatories, are also compiled in this report with the full description of the nature of them referring the seismological reports published by the Central Meteorological Observatory, Tōkyō, and the other foreign observatories.

The present report is compiled by K. Hayata, the seismological expert of this bureau.

M. Kawano,

Director,

October 1, 1938.

Weather Bureau of Tyōsen, Nippon.

1. Introduction.

The present publication contains the results of the seismometrical observations made at Weather Bureau of Tyōsen, Zinsen, and the local meteorological observatories in Tyōsen in the year 1936.

Symbols and Notations:-

- P Normal first phase (longitudinal waves).
 - P' First preliminary tremors which have penetrated the earth's core.
 - PR_n Longitudinal waves n-times reflected at the earth's surface.
 - S Normal second phase (transverse waves).
 - SR_n Transverse waves n-times reflected at the earth's surface.
 - PS Waves changed from longitudinal to transverse oscillation on reflecting at the earth's surface.
 - L Long waves at the beginning of the surface waves.
 - M Largest motion in the surface phase.
 - C Tail or end portion.
 - PcP Longitudinal waves reflected at the earth's core.
 - ScS Transverse waves reflected at the earth's core.
 - F End of the discernible movement.
 - i Sudden or distinct commencement of a phase.
 - e Gradual or indistinct commencement of a phase.
 - A_N N-S component of amplitude.
 - A_E E-W component of amplitude.
 - A_Z Vertical component of amplitude.
 - + Displacement to the north, east and upwards.
 - Displacement to the south, west and downwards.
 - J Epicentral distance.
 - (r) Remarkable earthquake; Major radius of the felt area is greater than 300km.
 - (m) Moderate earthquake; Major radius of the felt area is less than 300km. and greater than 200km.
- Time:- Time is referred to Greenwich Mean Time.

2. Seismological stations in Tyōsen.

(1) Weather Bureau of Tyōsen, Zinsen.

Longitude λ ; 126° 38'E Latitude φ ; 37° 29'N

Height above mean sea level; 69.7m.

Geological nature of the ground; Grey Granite-gneiss.

Instruments and constants (approximate):-

M; Mass of the pendulum. V; Static Magnification.

T; Proper period of the pendulum. $\frac{r}{T^2}$; Coefficient of friction.

ϵ ; Damping coefficient.

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ϵ
Wiechert's Seismograph	N-S	200	96	5.1	0.009	3.2
	E-W		107	5.3	0.017	3.4
	Z	80	71	4.9	0.021	3.2
Oomori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of low magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2
Oomori's Tromometer	N-S	50	150	15.0	0.05	
	E-W	50	150	15.0	0.05	

(2) Keizyō Meteorological Observatory.

Longitude λ ; 126° 58'E Latitude ϕ ; 37° 34'N

Height above mean sea level; 85.5m.

Geological nature of the ground; Granite.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ϵ
Wiechert's Seismograph	N-S	200	96	4.9	0.007	5.6
	E-W		96	4.8	0.005	5.3
Oomori's Portable Seismograph	N-S	12	50	3.5	0.03	
	E-W	12	50	3.5	0.03	

(3) Taikyū Meteorological Observatory.

Longitude λ ; 128° 36'E Latitude ϕ ; 35° 52'N

Height above mean sea level; 50.5m.

Geological nature of the ground; Shale.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ϵ
Wiechert's Seismograph	N-S	200	64	4.2	0.030	3.1
	E-W		67	4.2	0.030	3.0
Oomori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of Low Magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2

(4) Husan Meteorological Observatory.Longitude λ ; 129° 02'E Latitude φ ; 35° 06'N

Height above mean sea level; 70.5m.

Geological nature of the ground; Porphyrite.

Instruments and constants (approximate):—

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ε
Wiechert's Seismograph	N-S	200	38	5.0	0.033	5.4
	E-W		80	5.4	0.00?	5.4

(5) Heizyō Meteorological Observatory.Longitude λ ; 125° 45'E Latitude φ ; 39° 02'N

Height above mean sea level; 51.0m.

Geological nature of the ground; Diorite.

Instrument and constants (approximate):—

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm./sec ²	ε
C. M. O. Portable Seismograph	N-S	17.7	50	6.0	0.015	
	E-W	17.9	50	6.0	0.015	
Seismograph of Low Magnification	N-S	2.0	2	6.0	0.02	2
	E-W	2.0	2	6.0	0.02	2
	Z	0.2	2	2.0	0.03	2

**3. The Earthquakes which occurred in Tyōsen
in the Year 1936.**

The number of the earthquakes which occurred in Tyōsen and its neighbouring sea amounted to 31, and 20 of them were felt by person in the epicentral region. Among them, the earthquake which occurred in Sōkeizi, was most remarkable.

The Strong Earthquake of Sōkeizi. At 21h 02m on 3rd of July (G. M. T.) a strong earthquake occurred at Sōkeizi in southern foot of Mt. Tii, in western part of Keisyōnandō. Its felt area amounted to about 69220 km², covering southern half part of Tyōsen Peninsula. At Sōkeizi, this earthquake was felt with intensity IV and small damages were done to houses, roads and others. Its scale was greatest for about 30 years since the meteorological work has been undertaken in Tyōsen.

The following main points of this earthquake were cleared by seismometrical study:

Location of Epicentre Longitude, λ ; 127° 39'E, Latitude φ ; 35° 14'N.

Time of occurrence at Hypocentre, 21h 02m 16.8s. (G. M. T.)

Depth of Hypocentre about, 10km.

The felt earthquakes which occurred in
Tyōsen in the year 1936.

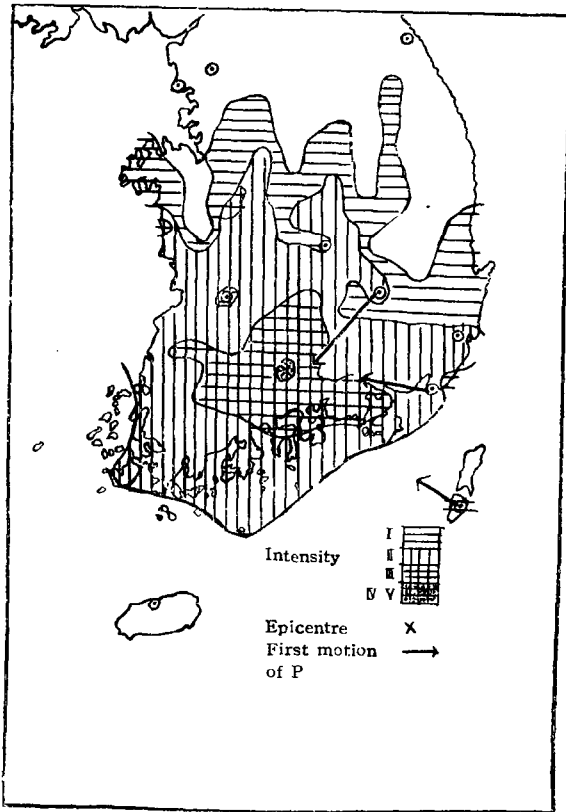
Date	G.M.T. h m	Intensity	Earth Sound	Epicentre and Remarks
Jan. 25	17 50	I; Genpū.	Feeble	Genpū, Keisyō-hokudō.
Jan. 25	22 20	III; Syōseitō.	—	W off Zyun'ito Kōkaidō. Recorded at Zinsen, Keizyō, and Taikyū.
Feb. 24	7 41	III; Zensyū. II; Ihōri.	Feeble	Vicinity of Zensyū, Zenra-hokudō.
Feb. 24	8 07	I; Ihōri.	Feeble	Ihōri, Zenra-hokudō.
Mar. 5	12 30	I; Zyunsen.	—	Zyunsen, Heian-nandō.
Mar. 10	2 41	I; Suigen.	—	Vōhei, Keikidō. Recorded at Zinsen and Keizyō.
Apr. 23	11 45	I; Kūsen.	Feeble	Kūsen, Keisyō-hokudō. Recorded at Taikyū.
Apr. 23	13 46	III; Heisyō. I; Kōryō, Vōkō.	Strong	Heisyō, Kōgendō. Recorded at Zinsen and Keizyō.
Jun. 1	17 50	II; Zensyū.	Feeble	Zensyū, Zenra-hokudō
Jun. 4	13 05	I; Kūsan.	—	Kūsan, Zenra-hokudō.
Jun. 20	22 35	I; Kotei.	—	Kotei, Kōgendō.
Jul. 3	21 02	V; Sōkeizi. III; Zensyū etc. II; Taikyū, Husan, Mokuho, Urusan etc. I; Syūhūrei, Izuhara etc.	—	Sōkeizi, Keisyō-nandō. 35.°14'N, 127.°39'E. Felt over southern half part of Tyōsen. Damages at Sōkeizi. After shock of Sōkeizi earthquake.
Jul. 4	7 42	I; Katō.	—	Ditto.
Jul. 4	11 40	I; Katō.	—	Ditto. Recorded at Huan and Taikyū.
Jul. 5	4 49	II; Katō.	—	120km. W off Kōkaidō 38.°3N, 123.°2E.
Sep. 2	2 44	I; Kanyō, Saisei.	—	
Sep. 26	21 30	I; Keizyō, Dairen, I; Seisyū.	Feeble	Seisyū, Keisyō-hokudō,
Oct. 25	15 15	I; Tin'an.	—	Tin'an Zenra-hokudō.
Nov. 2	18 50	III; Reisui.	Feeble	Reisui, Zenra-nandō.
Dec. 18	12 35	III; Sinkabari	Feeble	Sinkabari, Kankyō-nandō.

Note; Scales for seismic intensity:- I; Slight, II; Moderate, III; Rather Strong, IV; Strong, V; Very Strong, VI; Disastrous.

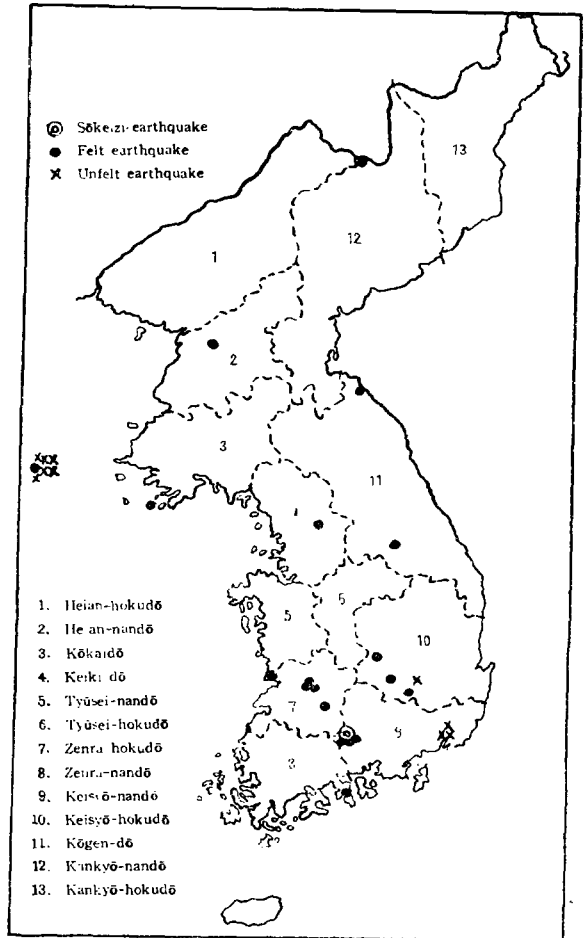
The unfelt earthquakes which occurred in
Tyōsen in the year 1936.

Date	G.M.T. h m	Epicentre	Date	G.M.T. h m	Epicentre
Mar. 7	5 26	Husan, Local	Jul. 9	17 00	Yellow Sea.
Mar. 11	8 51	Yellow Sea.			38.°1N, 123.°3E.
Jul. 1	8 44	Yellow Sea. 38.°0N, 123.°3E. Felt at Dairen.	Jul. 10	11 01	Ditto, 38.°2N, 123.°3E.
Jul. 9	5 19	Husan, Local.	Sep. 22	2 17	Ditto, 38.°3N, 123.°2E.
Jul. 9	6 26	Ditto.	Sep. 2	8 11	Ditto, 38.°3N, 123.°2E.
Jul. 9	15 55	Taikyū, Local.	Nov. 1	17 53	Middle part of Yellow Sea ?

The map of distribution of Seismic Intensities of the Sōkeizi-earthquakes occurred on at 21h 02m on 3rd of July.



The map of distribution of epicentres of earthquakes occurred in Tyōsen in the Year 1936.



4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks
			h	m	s	AN	AE	Az				
1	Jan. 2 Husan	eL F	1	11	54.3 27 21.						Distant?	
2	Jan. 2 Zinsen	eLN	22	42	44.7				N +	6 33.4	Batavia ; Felt in western Sumatra, Manila ; In vicinity of 1°S, 97°E. U.G.E.G.I ; 1°N, 98°E.	
		eSN	49	24	1				Z +			
		eLN	56	36	4							
		F	23	22	—							
	Husan	P	22	43	22.6					6 21.5		
		eS	49	44	1							
		eL	53	55	5							
		F	23	26	10.							
	Taikyū	eP	22	48	24.6							
		L	57	52	6							
		F	23	18	47.							
	Heizyō	eP	22	58	55.0							
F		23	12	—								
Keizyō	P	Lost in changing paper										
	LNE	23	00	09.2								
	ME	04	46	0			± 40	15.0				
	MX	54	44	± 60				16.0				
	F	25	—									
3	Jan. 14 Husan	eP?	14	34	46.3					7 22.1?	J. S. A ; 23°28', 62°3'W. in Santiago, Argentina. Depth = 590km. H = 14h 12m 25s. U.S.C.G.S ; 29°S, 63°W. H = 14h 12m 15s. Depth = 600km.	
		eS	42	12	4							
		F	15	15	33.							
	Zinsen	eN	14	33	23.							
		F	15	00	—							
		P	14	42	12.7					4 05.6		
	Taikyū	S	46	18	3							
		F	15	02	53.							
4	Jan. 14 Husan	eP?	17	55	11.8	overlapped by microseisms				5 17.1?	Manila ; 20°S, 170°E. U.S.C.G.S ; 13°S, 168°E. H = 17h 41m 10s. Depth normal, New Hebrides.	
		eS	18	00	23.9							
		F	22	24.								
5	Jan. 20 Zinsen	eLN	17	02	31.1					5 21.8	Manila ; Felt in eastern and southern Mindanao. Probably in Philip- pine deep.	
		eSN	07	52	3							
		eLN	11	29	7							
		F	53	—								

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks
			h	m	s	AN	AE	Az			μ	ν	
	Keizyō	e'NE	17	02	52.3						4	42.0	U. S. C. G. S. ; 5.°7N, 127.°0E. H=16°56'19" Slightly more than normal depth.
		eSNE		07	34.3								
		e'NE		10	02.2								
		F	12	00	--								
	Husan	eP	17	03	10.6						3	11.5	
		eS		07	02.1								
		F		50	36.								
	Heizyō	eP	17	07	43.7								
		F		36	--								
6	Jan. 25 Taikyū	P	17	50	09.0								Felt at Genpū, Keihoku, Tyōsen.
		F		50	13.								
7	Jan. 25 Zinsen	i'EZ	22	20	49.5					E	--	17.0	Felt at Syōseitō, Kōkaidō. Epicenter in western off Zyūjūto, Tyōsen.
		iSN		21	06.5					Z	--		
		F		21	53.								
	Keizyō	i'NE	22	20	53.2							22.0	
		iSNE		21	15.2								
		F		24	--								
	Taikyū	P	22	24	05.2								
		F		25	03.								
8	Jan. 27 Keizyō	e'NE	19	44	52.7								Distant.
		F		57	--								
	Zinsen	eEN	19	45	42.9								
		F		54	--								
	Husan	eP	19	45	59.6						1	20.8	
		eS		47	30.4								
		F		20	02 30.								
9	Feb. 7 Heizyō	iP	9	00	41.0						3	31.5	Nanking ; First main shock causing heavy damages, casualties at Linchao, Hochen, and great panic at Lanchow, Kansu. Rocked by 3 quakes within 9 minutes. Epi: 35.°5N, 103°E. U. G. E. G. I ; Near 36°N, 102°E. U. S. C. G. S. ; 35.°4N, 103.°3E. H=8°56'25" Normal depth.
		iS		04	12.5								
		iL		06	39.5								
		M		11	41.0								
		C		13	27.5								
		F		10	06 --								
	Zinsen	i'Z	9	00	46.6				6.1	E	-5.4	3	42.2
		i'EN			46.9				5.1	Z	-7.6		
		iSz		04	23.8				7.1				
		iSNE			23.3	+ 21.6	+ 9.9	+ 21.1	3.6				

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks		
						AN	AE	Az						
			h	m	s	μ	μ	μ	s	μ	m	s		
10		i _N	06	26.0										
		i _E		33.9										
		i _Z		35.7										
		M _{Z1}	07	06.5			+ 51		4.7					
		M _{N1}		11.3	- 79				5.8					
		M _{Z2}	08	41.0			+ 166		9.2					
		M _{N2}	09	08.7	- 103				7.2					
		M _{E1}	10	02.7			± 105		8.2					
		M _{E2}	11	42.8			- 102		8.2					
		F	10	10	-									
		Taikyū	P	9	00	44.1						3	59.1	
	S			04	43.2									
	L			06	47.3									
	F			49	-									
	Keizyō	i _E	9	00	50.2						E - S	3	38.4	
		i _S		04	28.6									
		i _{NE}		06	30.8									
		M _N	07	18.9	+ 70				3.8					
		M _E	11	47.8		+ 68			6.4					
		F	10	15	-									
	Husan	i _P	9	01	10.1							4	01.2	
		i _S		05	11.3									
		L		07	35.8									
		M _E	10	46.8		± 204			3.8					
		F	10	05	53.									
Feb. 8	Husan	e _P	12	19	10.4						6	18.6	U. S. C. G. S.; 5.°38', 145.°4E. H=12h11m15s. Depth=240km. New Guinea.	
		e _{PP?}		21	11.5									
		e _S		25	29.0									
		F		38	30.									
	Taikyū	P	12	19	12.1							6		16.5
		i _N			30.1									
		e _{P?}		21	37.6									
		e _{SN}		25	28.6									
		F		37	-									
Zinsen	e _P	12	19	34.3							6	36.0		
	e _{SN}		26	10.3										
	F		40	-										
Keizyō	e _P	12	19	35.4							6	40.2		
	e _{SE}		26	15.6										
	F		49	-										
11	Feb. 9	Husan	e _{P?}	4	39	51.8					1	24.0?	Off Okinawa Island.	

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks		
				AN	AE	AZ						
		S?	b	m	s	p	μ	μ	m	s		
		F	41	15.8								
			54	27.								
	Zinsen	eP _E	4	39	54.2							
		F		51	—							
	Keizyō	eP _{NE}	4	40	23.							
		P		52	—							
12	Feb. 10											
	Keizyō	eP _{NE}	18	16	32.3							
		F		27	—						U. S. C. G. S.; 18°S, 178°W. H=13 ^h 05 ^m 33 ^s ; Depth 500km.	
13	Feb. 15											
	Husan	iP	12	54	09.7?	Time uncertain			3.9	N +9.5	6 00.1?	J. S. A.; Vicinity of 4.°S, 133.°0E. H=12 ^h 46 ^m 56 ^s ;
		S	13	00	09.8?							
		L		03	07.7?							
		M _E		05	47.2?			± 386	18.6			
		M _N		08	30.0?	± 286			20.0			
		F	14	21	01. ?							
	Taikyū	P	12	54	36.7					6	11.0	U. S. C. G. S.; 4.°S, 133.°0E. H=12 ^h 46 ^m 56 ^s ; Depth normal. Banda Sea.
		PP		56	09.2							
		eS	13	00	47.7							
		eL		03	58.0							
		F		53	32.							
	Zinsen	iP _E	12	54	49.1				5.2	E -1.8	6 18.0	
		iP _Z		54	49.4				4.2	Z +12.1		
		PP _Z		56	21.1							
		iS _E	13	01	07.1			— 5.4	10.3			
		eL _E		04	06.2							
		M _E		03	50.8			± 166	16.0			
		M _Z		10	24.3			— 300	21.0			
		F	14	08	—							
	Keizyō	iP _N	12	54	52.0					N +7	6 13.8	
		S _E	13	01	05.8							
		I _{NE}		04	18.2							
		M _N		13	14.2	± 160			16.8			
		M _E		14	21.4			+ 190	16.0			
		F	14	32	—							
	Heizyō	iP	12	55	05.8						6 27.0	
		S	13	01	32.8							
		eL		05	56.8							
		F		58	—							
14	Feb. 21											
	Husan	P	1	08	27.0						1 13.8	Tōkyō; 34.°31'N, 135.°40'5E.
		S		09	40.8							

4 The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks
						AN	AE	Az				
		M _N	^h 10	^m 27.7	^s	+ 4.4	^μ	^μ	^s 4.7	^μ	^m	(r) Destructive strong quake of Kawati Yamato, southern foot of Mt. Futagami, 9 killed, 20 houses completely destroyed.
		M _E	10	28.6			± 20		4.2			
		F	36	26.								
	Taikyū	P	1 09	26.3						1	55.7	
		S	11	22.0								
		M _E	11	45.3		+ 63	+ 28		3.1			
		M _N	11	49.3					2.6			
		F	23	13.								
	Keizyō	eP _{NE}	1 09	52.9						1	32.6	
		eS _{NE}	11	25.5								
		F	40	—								
	Zinsen	eP _E	1 09	53.7						1	35.9	
		eS _E	11	29.6								
		M _N	12	54.7		+ 13			5.5			
		M _E	13	42.3			- 30		8.5			
		F	35	—								
	Heizyō	eP?	1 10	53.3						1	39.0?	
		S	12	29.3								
		F	34	—								
15	Feb. 21											U. S. C. G. S.; 24.°2'N, 98.°2'E. H=6 ^h 20 ^m 53 ^s Depth=about 80km, Burma-China border.
	Zinsen	eP _N	6 31	57.6						4	47.2	
		eS _N	36	44.3								
		F	51	—								
	Husan	eP?	6 32	04.4						1	47.2	
		eS	33	51.6								
		L	37	31.4								
		F	57	13.								
	Taikyū	eP	6 34	11.1								
		F	55	51.								
	Keizyō	eP _E ?	6 35	08.						2	29.?	
		eS _{NE}	37	27.9								
		F	55	—								
16	Feb. 27											Manila; In the Timor sea, U. S. C. G. S.; 5.°0'S, 144.°5'E. H=16 ^h 57 ^m 08 ^s Normal depth, New Guinea.
	Husan	eP	17 05	26.7						6	03.1	
		S	11	29.8								
		L	14	47.8								
		F	43	23.0								
	Taikyū	eP	17 05	32.4								
		F	26	50.4								
	Zinsen	eP _{ENZ}	17 05	45.4						6	19.4	

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	AZ				
	Taikyū	eP S F	h m s 10 25 40.2 28 48.8 36 40.2	μ	μ	μ	s	μ	m s 3 08.6	
	Zinsen	iP _N iP _E iP _Z iS _{NE} F	10 25 41.7 25 41.7 25 42.1 28 46.0 40 —	- 7.2	- 6.5		4.9 4.9 5.1 5.1, 5.1	N -6.2 E -6.5 Z +9.7	3 04.3	
	Husan	eP S F	10 25 42.7 28 59.5 41 04.2						3 16.8	
20	Mar. 2 Taikyū	P eS L F	3 22 17.5 24 55.3 26 19.7 4 16 00.4						2 27.8	Tōkyō ; 41.°6'N, 144.°0'E. (r)SE off the cape of Erimo, Hokkai- do.
	Husan	P eS L M _N M _E F	3 22 18.2 24 46.9 25 43.8 30 43.8 30 43.8 4 44 27.8	+ 83	- 142		4.4 3.9 14.7	N -3 E -3	2 28.7	U. S. C. G. S. ; 43.°5'N, 144.°E. H=3h19m06s Depth near normal.
	Keizyō	iP _{NE} eS _{NE} M _E M _N F	3 22 22.3 25 07.3 28 02.9 28 18.5 4 38 —	± 18	± 15		15.0 15.0		2 45.0	
	Zinsen	iP _{EN} iP _Z eS _N eL _E M _E M _N M _Z F	3 22 25.1 22 25.6 25 05.3 26 03.3 28 15.0 28 22.3 28 28.5 4 27 —	+ 300	- 183		4.7 4.2 3.4 16.0 16.0 15.0	E -4.6 N -2.1 Z +4.1	2 40.2	
	Heizyō	iP S eL F	3 22 30.3 26 03.3 27 15.8 4 04 —						3 33.0	
21	Mar. 4 Husan	eS F	17 06 59.0 17 26.5							Northern off Ama- mi-osima, Kagosima Prefecture.

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date of Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks			
						AN	AE	Az								
			h	m	s	μ	μ	μ	s	μ	m	s				
22	Mar. 7 Husan	P	5	26	30.6						3.5		Local. Near Husan			
		S		26	34.1											
		F		27	29.0											
23	Mar. 10 Zinsen	eP	2	41	22.9						9.3		Near Yōhei, in middle reaches of the river of Kankō. Felt at Suigen.			
		eS		41	22.2											
		F		—	56.											
	Keizyō	iPN	2	41	23.6					N +1	4.7					
		iSNE		41	23.3											
		F		42	—											
24	Mar. 10 Zinsen	ePE	20	33	08.5								Tōkyō ; 41.°2N, 143.°6E. Southern off the cape of Erimo. U. S. C. G. S. ; 41.°2N, 144.°5E. H=20°35'48" Normal depth.			
		eLN		42	57.0											
		F		21	02	—										
	Husan	P	20	39	09.0											
		L		43	23.3											
		F		21	11	43.6										
	Taikyū	eP	20	39	13.3											
		S		?												
		eL		43	09.4											
	Keizyō	F		55	27.6											
		ePNE	20	33	14.3											
		eLNE		42	53.9											
		F		21	02	—										
			25	Mar. 11 Husan	P	0	46	48.1						1	58.5?	Tōkyō ; 39.°7N, 143.°7E. Eastern off Miyako.
					eS?		48	46.6								
L		51			01.3											
F		1			21	01.1										
Taikyū	iP	0	46	55.2						1	25.7?					
	S?		48	20.9												
	eL		50	50.9												
	F		1	00	55.4											
Keizyō	ePNE	0	47	00.9						3	14.6					
	eLNE		50	15.5												
	F		1	00	—											
Zinsen	ePE	0	47	02.5						2	18.6?					
	eSN?		49	21.1												
	eLN		50	44.6												
	F		1	11	—											

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks	
				AN	AE	Az					
32	Keizyō	ePNE	h m s 2 16 03.7	μ	μ	μ	S	μ	4 38.4	Batavia ; Destructive on Talan Islands.	
		SNE	20 42.1								
		LNE	24 24.9								
		F	4 12 —								
	Heizyō	P	2 16 21.6						5 27.0		
		e	19 09.6								
		S	21 48.6								
		ME	26 50.1								
	Apr. 1 Husan	F	3 20 —								
		eP?	20 04 15.6						6 345.?		Distant.
		S?	10 50.1								
	F	Lost in next quake.									
33	Apr. 1 Taikyū	P	20 17 20.5						5 16.0	After shock of No.31. Batavia ; Felt on Sangir and in N. Celebes, Manila ; Felt at Jolo with intensity III.	
		S	22 36.5								
		L	27 14.5								
		i	21 09 24.5								
		F	02 —								
Keizyō	ePNE	20 17 35.1						5 10.2	U. S. C. G. S. ; 3°N, 130°E. H=20h10m26s		
	eSNE	22 45.3									
	eLNE	26 42.3									
	F	21 13 —									
Zinsen	ePN?	20 17 37.6						4 31.4?			
	eSN?	22 09.0									
	eLE	25 15.0									
	F	21 03 —									
Husan	eP	20 17 54.4						4 25.4			
	eS	22 19.8									
	eL	24 40.1									
	F	21 31 07.3									
34	Apr. 2 Husan	eP	6 24 59.3						6 25.6	U. G. E. G. I. ; Region of New Guinea, U. S. C. G. S. ; 3°S, 151°E. H=6h16m51s Depth normal. Near New Ireland in the South Pacific Ocean.	
		PP	26 42.0								
		S	31 24.9								
		F	7 29 47.5								
	Taikyū	eP	6 25 06.2						6 35.0		
		iS	31 41.2								
		F	51 —								
	Keizyō	ePNE	6 25 17.6						6 23.8		
		eSNE	31 41.4								
		F	7 05 —								

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks		
						AN	AE	AZ							
35	Apr. 10 Zinsen	ePNE	h	m	s	μ	μ	μ	s	μ	m	s			
		iSEN	6	25	27.8									6	44.8
		F		32	12.6										
		7	10	—											
		Zinsen	ePe	20	04	44.5					4	43.0		Mongolia ?	
	ePz			04	45.5										
	eSNEZ			09	27.5										
	F			21	—										
		Keizyō	ePNE	20	04	52.6					4	30.9			
	SNE			09	23.5										
F			26	—											
	Heizyō	S	20	08	26.4										
F			14	—											
	Taikyū	eS	20	10	24.8										
F			34	42.3											
	Husan	eS	20	10	54.1										
eI.			12	06.0											
F			22	01.3											
36	Apr. 11 Taikyū	P	23	43	21.0					4	07.8	Manila : 12.°05'N, 125.°50'E. Felt throughout Samar and SE Luzon.			
		eS		47	28.8										
		F		56	—										
37	Apr. 12 Taikyū	P	20	57	02.8					4	45.0	Manila ; 10°N, 140°E. U. G. E. G. I. ; Region of Palau, between Carolin and Mindanao. U. S. C. G. S. ; 9.4N, 133.°0E. H=20 ^m 51 ^m 06 ^m . Normal depth. Pacific Ocean near Island of Yap.			
		S		21	01 47.8										
		L		06	24.8										
		F		Lost in next quake.											
		Husan	P?	20	57	07.9									
	L			21	03 14.2										
	F			Lost in next quake.											
		Zinsen	eP?	20	57	15.1					2		40.2?		
	eSE?			59	55.3										
	eI.?			21	02 32.5										
F			55	—											
	Keizyō	ePNE	20	57	27.1					4	59.0				
eSNE			21	02 26.1											
F			Lost in next quake.												
38	Apr. 12 Husan	eI.?	21	24	53.0							Tōkyō : 25.°6N, 127.°3E. SW of the Okinawa Island.			
		L		25	54.2										

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	m	s	
	Taikyū	F	22	12	59.9								
		P	21	25	18.2								
		i		27	30.2								
		F		53	—								
	Zinsen	eL ^{NE} ?	21	25	33.7						2	10.2?	
		eSE?		27	42.9								
		eL?		28	52.4								
		F		35	—								
	Keizyō	eSE?	21	27	56.3								
		eL ^{NE}		32	30.3								
		F	Lost in next quake.										
	Heizyō	eL?	21	59	47.8								
		F	22	43	—								
39	Apr. 14 Husan	eS?	1	21	31.5								Upper reaches of the river of Ōno, Ōita Prefecture.
		F		28	43.7								
40	Apr. 16 Husan	e	14	09	49.5								Southern off the Isigaki Island, Manila ; Near 24°N, 124°E.
		eL?		14	13.6								
		F		25	29.7								
	Zinsen	eN	14	10	15.8								
		eL		13	31.0								
		F		24	—								
	Keizyō	eL ^{NE}	14	10	56.5								
		F		21	—								
	Taikyū	e	14	11	00.0								
		F		25	42.0								
41	Apr. 16 Zinsen	eL ^N ?	20	16	16.0								E off coast of Taitō, Formosa.
		eL ^N ?		22	07.8								
		F		20	—								
	Husan	eL?	20	21	04.4								
		?		22	28.4								
		F		30	28.4								
	Keizyō	eL ^{NE} ?	20	21	24.8								
		F		20	—								
42	Apr. 19 Husan	P	5	16	09.2						7	09.5	J. S. A. ; 9.°0S, 156.°0E.

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	s		
		Pk?	13	48.0									
		S	23	13.7									
		F	7	51	22.9								
	Taikyū	P	5	16	16.8						7	15.0	
		S	23	21.3									
		L	28	21.1									
		F	6	49	—								
	Keizyō	iNE	5	16	21.5						7	25.6	
		iNE	20	34.1									
		SNE	23	57.1									
		ME	21	21.2		+ 115			16.0				
		F	7	40	—								
	Zinsen	iN	5	16	32.7					N +2.2	7	26.4	
		iE	16	22.7						E -2.7			
		iZ	16	22.7						Z +3.6			
		iS	23	59.1		+ 7.3			7.3				
		eE	27	10.8									
		F	7	02	—								
	Heizyō	eP	5	16	47.7						5	42.0	
		eS	22	29.7									
		L	28	35.7									
		ME	22	28.7									
		F	6	26	—								
43	Apr. 19												
	Taikyū	eP	9	11	26.7						6	32.0	
		eS	17	58.7									
		eL	26	18.7									
		F	55	—									
	Husan	eP?	9	11	22.1						6	27.0?	
		S	9	17	59.1								
		F	57	14.5									
	Zinsen	ePE	9	11	44.7						6	02.6	
		eSN	17	47.2									
		eE	23	50.0									
		F	59	—									
	Keizyō	eNE	9	11	46.9						6	12.6	
		SNE	17	59.5									
		LNE	24	20.1									
		F	10	00	—								
44	Apr. 23												
	Husan	P?	23	21	50.9						6	02.2?	
		S	27	54.1									

H=5h07m12s
 U. S. C. G. S. ;
 7.°S, 156.°E.
 H=5h07m15s
 Region of Solomon Islands.

U. G. E. G. I ;
 Region of Andaman,
 Indian Ocean.
 U. S. C. G. S. ;
 13°N, 92°E.
 H=9h04.1m.
 Depth normal
 Near Andaman
 Islands in Bay of
 Bengal.

J. S. A. ;
 50.°N, 173°E.
 H=23h14m34s

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks		
						AN	AE	AZ						
			h	m	s	u	u	u	s	u	s			
45	Zinsen	P		52	50.8							Depth=100km. U. S. C. G. S. ; 49.°0N, 179.°5E. H=23h14m19s Depth normal. Aleutian.		
		ePNE	23	21	51.8						5		56.6	
		eSEN		27	48.4									
			P		52	—								
	Zinsen	ePZ	0	02	55.1							3	56.6	Nanking ; 28.°3N, 103.°3E. Heavy damages at Suikiang, Yunnan, Chiufeng ; Felt at Shueh-Chi- ang, Yunnan, in- tensity R. F. VIII, and at Chungching and Chengtu, in- tensity R. F. VI. U. G. E. G. I ; 30.°N, 103°E. U. S. C. G. S. ; 28.°5N, 102.°0E. H=22h59.0m, 26th
		ePEN		02	56.8									
		eSEN		07	51.7									
		eSZ		07	53.1									
		eLE		09	56.2									
		eLZ		09	58.0									
		ME		11	20.5		± 390			10.6				
		MS		13	55.9	± 190				7.7				
		P		48	—									
	Keizyō	ePNE	0	02	55.3							4	01.6	
		eSNE		07	56.9									
		ePNE		10	25.1									
		ME		11	22.1	+ 110				6.8				
		P		13	04.2		- 110			3.2				
		P		52	—									
	Heizyō	P	0	04	02.7							3	48.0	
S			07	50.7										
I			10	32.7										
MS			11	11.1										
ME			12	32.7										
	P		25	—										
Taikyū	P	0	04	06.2							4	04.3		
	S		08	10.6										
	ME		11	38.9		+ 42			4.7					
	MS		11	44.9	- 72				5.1					
	P		49	—										
Husan	P	0	04	10.8							4	03.7		
	e		05	58.1										
	S		33	14.5										
	I		11	23.7										
	MS ₁		14	37.1	+ 52				7.0					
	ME ₁		14	17.1		- 61			7.0					
	MS ₂		16	14.2	± 47				7.7					
	ME ₂		16	14.2		± 67			7.7					
	P		1	03	25.8									
40	Apr. 27 Taikyū	P	1	23	22.5						4	02.6	After shock of No. 45.	
		S		42	21.1									
		P		55	—									

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks	
				AN	AE	AZ					
47	Husan	P	1 38 23.4	μ	μ	μ	s	μ	3 07.1		
		S	42 30.5								
		L	45 50.4								
		F	2 05 35.6								
	Zinsen	ePE	1 38 37.4						3 42.1		
		eSE	42 19.5								
		eLE	44 37.1								
		F	2 00 —								
	Keizyō	iSNE	1 42 11.1								
		eNE	45 01.1								
		eNE	46 36.1								
		F	59 —								
Apr. 27 Husan	eP?	3 41 51.9						4 08.1?	After shock of No. 45.		
	S	46 00.0									
	L	49 40.2									
	F	4 01 35.2									
Taikyū	e	3 48 45.8									
	F	56 —									
48 Apr. 23 Taikyū	P	11 45 25.1							Local. Felt at Kinsen.		
	F	45 37.8									
49	Apr. 28 Zinsen	ePN	13 43 30.9						6 24.6	Batavia ; Felt at Tapa, Babar Islands. Manila ; Deeper than normal. Felt at Darwin, Australia.	
		ePN	44 22.2								
		eSNE	49 55.5								
		F	14 02 —								
	Taikyū	eS	13 49 31.1								
		F	52 51.2								
	Keizyō	eSE	13 49 59.3								
		F	58 —								
	Apr. 28 Keizyō	ePNE	18 32 08.6						4 01.4		After shock of No. 45, Szechwan Province, West China.
		eSNE	36 10.0								
		eNE	39 03.4								
		F	50 —								
Zinsen	eSN	18 35 59.2									
	eNE	39 02.5									
	F	Lost in next quake.									
Husan	eS	18 36 30.5									

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks
						A _N	A _E	A _Z				
			h	m	s	u	u	u	s	p	u	s
		L	41	48.2								
		F	55	27.8								
	Taikyū	eS?	18	28	50.2							
		F	47	26.2								
51	Apr. 28											
	Keizyō	iP _{NE}	18	46	37.4						17.2	Near Heisyō, Kōgendō. Felt at Hei-yō, Yōkō and Kōryō.
		iS _{NE}	46	54.6								
		F	47	40.								
	Zinsen	iP _{ENZ}	18	46	41.8						20.4	
		iS _{NE}	47	02.2								
		F	47	50.								
52	Apr. 29											
	Keizyō	eP _{NE}	16	50	03.7							NE off the Hatizyō Island.
		eI _{NE}	55	23.2								
		F	17	03	—							
	Zinsen	eI _N	16	53	20.5							
		F	17	03	—							
	Husan	L	16	52	46.5							
		F	17	06	23.8							
53	May 5											
	Husan	eP	19	51	30.8						6 01.4	Manila ; 6°55', 148°E. U. S. C. G. S ; 2°S, 149°E. H = 19h43m03s Pacific Ocean northeast of New Guinea.
		ePP	53	02.0								
		eS	57	32.2								
		eSR _{2E}	20	00	32.2							
		F	27	55.2								
	Zinsen	eP _N	19	51	32.1						6 28.0	
		ePR _{2N}	53	32.7								
		eS _N	58	10.1								
		eSR _{2N}	20	01	39.5							
		F	18	—								
	Keizyō	eP _{NE}	19	51	32.8						6 46.0	
		eS _{NE}	58	19.3								
		F	20	16	—							
	Taikyū	ePR ₁	19	53	06.4							
		F	20	13	—							
54	May 8											
	Zinsen	eP _N	9	19	47.7						5 06.2	Batavia ; 5°N, 130°E. Deep focus, Java Sea, felt from Singlangbarang (W. Java) to Gianjar
		ePR _{2N}	21	06.5								
		eS _{NE}	24	54.0								
		eI _N	27	48.0								

6. The Seismic Reports of Meteorological Observatories in Keizyō in the Year 1935.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks			
						AN	AE	Az							
			h	m	s	u	u	u	s	m	s				
55	May 8	Keizyō	eP?E	9	20	16.6					4	45.6	7 (Bali). Manila; Region of U. S. C. G. S.; 5°N, 130°E. U. S. C. G. S.; 6°S, 119°E. H=9h11m20s Depth 500km, Java Sea.		
			eSNE		25	02.2									
			F	41	—										
	Taikyū	eP	9	20	16.6						4	21.4			
		eS		24	43.0										
		eI		27	54.1										
		F		39	—										
	Husan	e	9	20	50.5										
		S		24	37.3										
		F		39	42.5										
	56	May 8	Keizyō	ePNE	15	29	14.0					3		51.6	Nanking; Shaken Cheung(V) Szechwan, China.
				eSNE		32	08.6								
eINE					36	00.6									
F					52	—									
Taikyū		eP	15	29	20.4						4	02.5			
		S		33	22.9										
		I		36	14.4										
		F		51	—										
Husan		eP	15	29	22.7						4	05.3			
		S		33	28.5										
		I		38	13.6										
		F		55	42.3										
Zinsen	ePN	15	29	44.9						2	13.3				
	eSE		33	01.7											
	eIN		35	36.4											
	F		55	—											
57	May 10	Husan	e	4	10	40.6						?			
			F		14	36.3									
58	May 10	Husan	e	6	12	29.1						Distant.			
			F		24	25.9									
58	May 11	Husan	I	17	35	47.8					6	57.7	Manila; Region of U. S. C. G. S.; 4°S, 154°E. U. S. C. G. S.; 5°S, 152°E. H=17h27m2.2s Region of New		
			S		42	45.5									
			?		45	44.4									
			eI		47	58.2									
			F		18	13	31.0								

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks	
						AN	AE	Az					
		iSN	h	m	s	μ	μ	μ	S	μ	m	s	U. G. E. G. I ; 28°N, 102°E. Chiufeng ; Strong tremors felt at Chungching, Szechuan, China. U. S. C. G. S ; 28.7°N, 104.0°E. H=7 ^h 05 ^m 41 ^s .
		iSZ	14	21.2	+ 17.0				8.5				
		iSE	14	22.1									
		eLNE	14	24.5		+ 27.8			3.5				
		MN ₁	16	33.1									
		MN ₂	17	27.5	+ 240				8.1				
		ME ₁	18	04.4	- 182				7.5				
		ME ₂	18	53.6		+ 184			8.9				
		ME ₂	19	20.1		- 272			10.4				
		MZ ₁	19	50.8				-259	9.1				
		MZ ₂	20	24.4				-262	9.1				
		F	8	16	-								
	Heizyō	iP	7	10	29.8						3	49.2	
		iS		14	19.0								
		I.		17	13.0								
		MN		17	20.0								
		ME		17	21.0								
		C		23	10.0								
		F		43	-								
	Keizyō	eLNE	7	10	32.9						2	56.8	
		iSNE		14	29.7								
		LNE		17	02.9								
		MN		17	44.7	- 360			10.0				
		ME		19	13.1		+ 280		10.0				
		F	8	12	-								
	Husan	P	7	10	41.3						4	00.1	
		S		14	41.4								
		ME ₁		14	56.2		+ 108		5.4				
		L		18	00.5								
		?		18	47.9								
		ME ₂		20	18.4		- 323		9.7				
		F	8	42	15.4								
	Taikyō	iP	7	10	43.6						4	04.1	
		S		14	47.7								
		L		16	20.8								
		ME		19	59.3		+ 46		9.9				
		MN		19	00.2	- 114			9.9				
		F	8	03	-								
62	May 19 Zinsen	eLN	21	43	52.9								Manila ; 1°N, 141°E.
		F	22	08	-								
63	May 20 Husan	eP	3	14	35.8						7	21.3	J. S. A ; 7.7°S, 159.6°E. H=3 ^h 05 ^m 21 ^s . Depth = normal. (Solomon Islands.)
		eS		22	07.1								
		L		27	51.5								
		F	4	26	00.5								

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	Az				
64	Taikyū	P	Lost in changing paper							U. S. C. G. S.; 9°S, 160°E. H=3 ^h 05 ^m 17 ^s . Solomon Islands Near normal depth.
		eS	3	22	13.5					
		eI.		28	06.0					
		F	4	22	—					
	Keizyō	eP _{NE}	3	14	56.7				7 50.0	
		eS _{NE}		22	46.7					
		F	4	13	—					
	Zinsen	eP _N	3	14	57.8				7 41.5	
		eP _{R₁N}		16	57.7					
		eS _N		22	39.3					
		F	4	20	—					
	May 22	Husan	e	6	53	18.4				
F				15	52.7					
65	May 25	Husan	e	1	19	48.0				?
			F		23	44.0				
66	May 25	Husan	eP	3	10	31.8			6 18.3	U. S. C. G. S.; 4°S, 145°E. H=3 ^h 02 ^m 7 ^s . Northeastern New Guinea.
			eS		16	50.1				
			eS _{R₁E}		20	02.8				
			F		43	04.6				
	Taikyū	eP	3	10	38.0				6 21.3	
		eS		16	59.8					
		F		39	17.0					
	Zinsen	eP _N	3	10	52.9				6 41.6	
		eS _N		17	24.5					
		eS _{R₁N}		20	52.7					
		F		40	—					
	Keizyō	eP _{NE}	3	10	53.8				6 33.8	
eS _{NE}			17	27.6						
eI _{NE}			20	57.2						
F			37	—						
67	May 27	Heizyō	P	6	26	24.2			5 39.3	J. S. A.; 24.°2'N, 85.°3'E. H=6 ^h 19 ^m 27 ^s . Depth=normal. U. G. E. G. I.; 29°N, 84°E. Himalaya.
			eS		32	03.5				
			eL		39	33.5				
			M _E		42	42.5				
			P'P'	7	01	39.4				
			F		09	—				
			Zinsen	iP _Z	6	26	24.1		E +1.9	

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks		
						AN	AE	Az						
			h	m	s	μ	α	α	μ	E	S	m	s	
		iPEN	26	24	7					E	+1.9			H=6h19m23s Nepal in northern India. Depth slightly less than 80km.
		iSN	32	07	2					N	—			
		eSRIN	34	49	5					Z	+2.8			
		eIN	36	27	0	+ 320			22.5					
		MX	39	41	9				12.1					
		ME	42	33	5		± 117		12.0					
		MZ	42	34	1			± 129						
		eP'P'NE	7	02	44.0									
		F	32	—										
	Keizyō	iPE	6	26	27.4							5	29.8	
		eSE	21	57	2									
		eLE	34	59	8				14.0					
		ME	42	46	3		— 140							
		eP'P'E	7	02	34.6									
		F	27	—										
	Husan	P	6	26	38.5							5	44.4	
		?	28	14	1									
		eS	22	22	9									
		ME	44	05	2		± 123		12.1					
		eP'P'	7	04	27.7									
		F	51	23	4									
	Taikyū	P	6	26	39.7							5	52.7	
		ie	28	11	5									
		S	22	23	4									
		L	40	07	7									
		MX	42	01	1	+ 125			12.2					
		ME	43	56	6		+ 119		12.1					
		P'P'	7	02	15.7									
		F	35	—										
68	May 23													
	Keizyō	ePE	12	31	44.3							4	01.2	Mainly: 22°N, 113.°50'E.
		eSE	35	45	5									
		eLE	37	50	9									
		F	50	—										
	Taikyū	eP	12	22	02.7									
		F	46	24	7									
	Husan	eP	12	22	03.1									
		eL?	37	25	4									
		F	56	35	4									
69	May 28													
	Husan	eP?	13	18	00.8									J. S. A ; 9.°0'N, 103.°5'W. H=18h49m11s Depth=about 270 km.
		eL	40	34	7									U. S. C. G. S. ; 10°N, 104°W. Pacific Ocean off Mexico.
		F	20	37	34.6									
70	June 1													
	Taikyū	P	5	45	01.1							1	14.3	

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks				
				A _N	A _E	A _Z								
			b	m	S	μ	μ	μ	s	u	m	s		
71	June 2 Husan	S	46	15.9								2		
		F	49	05.5										
	Taikyū	P	2	58	27.6							2	23.6	Tōkyō ; 41.23N, 142.13E. (r)E Off the cape of Siriya, Aomori Prefecture. Deep focus. U.S.C.G.S ; H=2h55m22s
		eS	3	00	51.2									
	F	16	21.5											
	F	3	14	—										
	Keizyō	ePE	2	58	31.2							2	26.6	
		iSE	3	00	57.8									
		iLE	02	10.4										
		F	21	—										
Zinsen	e	2	59	—										
	F	13	—											
72	June 4 Taikyū	P	13	11	01.7								Distant.	
		V	28	13.7										
	Zinsen	e	13	12	—									
		F	25	—										
73	June 5 Taikyū	P	14	44	14.2								Manila ; Vicinity of 7°N, 125°E.	
		F	54	52.0										
	Husan	eP	14	44	25.2							2	15.6	Batavia ; Felt in N. Moluccas and N. Celebes.
		eS	46	40.8										
		F	15	03	13.8									
	Zinsen	eLN	14	44	26.2									
		eLR ₂ N?	45	55.7								5	35.2?	
		eSN?	50	01.5										
		F	15	05	—									
	Keizyō	eLNE	14	44	27.3									
F		15	05	—										
74	June 9 Zinsen	eSN?	16	50	03.8								Manila ; Vicinity of 3°S, 95°E. Batavia ; Felt in W. Sumatra.	
		eLN?	57	50.7										
		V	17	17	—									
	Keizyō	eSNE	16	51	03.2									
		F	17	16	—									
	Taikyū	e	16	58	18.6									

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	AZ				
			h m s	μ	μ	μ	s	μ	m s	
75	June 10 Ifusan	e	17 01 10.6							
		F	13 —							
		eL?	16 59 29.0							
		e	17 03 22.8							
		F	18 57.1							
76	June 10 Keizyō	ePE?	3 55 22.3							U. S. C. G. S. ; 27.°5N, 62.°5E. According to Baku. Near Persia-Baku- chistan border.
		eLNE	4 03 31.3							
		F	14 —							
76	June 10 Ifusan	P	8 31 15.0						6 16.5	I. S. A. ; 5.°4S, 147.°0E. H=8b23m20s Depth=150km. Manila ; 6°S, 144°E. U. G. E. G. I. ; Sea of Corail.
		S	37 31.5							
		L	42 39.6							
		F	9 36 54.4							
	Taikyū	P	8 31 23.8						6 24.0	U. S. C. G. S. ; 5.°5S, 147.°3E. H=8b23m26s Depth=160km. East of New Guinea.
		S	37 47.8							
		L	42 13.8							
		F	9 09 01.8							
	Keizyō	iPNE	8 31 38.2						6 38.6	
		iPPNE?	32 25.6							
		eSNE	38 16.8							
		eNE	39 23.8							
MN		39 30.2	- 16			6.8				
ME		39 52.2		+ 10		5.6				
eJNE		42 31.8								
Zinsen	F	9 25 —								
	iPN	8 31 39.5						N -1.1	5 57.3	
	iPE	31 39.5						E —		
	iPZ	31 40.2						Z -1.0		
	iPR ₁ NE	32 15.6	+ 5.6	- 3.0		6.0 6.0				
	iPR ₁ Z	32 18.4			+ 10.4	5.7				
	iPR ₂ N	34 06.9								
	iPR ₂ Z	34 07.8								
	eSNZ	37 36.8								
	iNE	39 23.1								
	MN	39 30.7	± 20			7.6				
ME	39 52.9		± 20		8.7					
iNEZ	42 58.8									
Heizyō	F	9 24 —								
	eP	8 31 50.9								
77	June 11	F	44 —							

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1934.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks		
						Ax	A _E	Az						
			h	m	s	μ	μ	μ	s	μ	m	s		
81	June 28	Keizyō	F	27	—								Vicinity of the Sikotan Island, U. S. C. G. S.; 43.°8N, 146.°4E. H=21h13m26s.	
			eP ^{NE}	21	17	14.0						3		06.0
			eS ^{NE}		20	20.6								
			eL ^{NE}		22	57.6								
	Husan	e	21	17	14.6									
		F		27	14.6									
	Heizyō	eP	21	17	19.0									
		F		27	—									
	June 28	Heizyō	eP	3	12	20.0							SE of the Heizyō Island, Manila; 43°N, 144°E. U. S. C. G. S.; 22.°5N, 145.°5E. According to Sverdlovsk, H=3h10.4m.	
			F		31	—								
		Husan	P	3	12	07.4						4	18.1	
			S		17	25.5								
F				53	14.1									
Taikyū		P	8	13	15.3						4	02.1		
		eS		17	17.9									
		F		53	—									
Keizyō		eP ^{NE}	3	12	28.4						3	24.0		
		eS ^{NE?}		17	12.4									
	eL ^{NE}		18	21.0										
	M _E		20	45.5	±	18		11.0						
	eP ^{NE?}		25	24.4										
	F	3	10	—										
Zin'en	eL ^N	8	12	41.2						2	39.8?			
	eS ^{N?}		16	21.0										
	eL ^{N?}		13	21.7										
	F		56	—										
82	June 28	Keizyō	eP ^E	17	25	45.2						E off the Heizyō Island.		
			eL ^E		32	02.2								
			F		45	—								
83	June 29	Keizyō	eP ^{NE}	14	37	39.6					6	10.3	Manila; Vicinity of 37°N, 78°E. U. G. E. G. I.; 39°N, 65.°5E. Turkestan, U. S. C. G. S.; 37.°0N, 70.°9E. H=14h30m14s. Depth=about 220 km. Afghanistan.	
			eS ^{NE}		44	10.4								
			F		15	39	—							
	Taikyū	eP	14	33	15.9						6	26.0		
		eS		44	41.9									
		F		15	07	—								
Husan	eP	14	33	17.6						6	30.2			

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks	
						AN	AE	Az			m	s		
87	July 1 Keizyō	ePNE?	h	m	s	μ	μ	μ	μ	μ	m	s	U. G. E. G. I : 37.°5N, 60.°5E. Turkestan. U. S. C. G. S. : 34.°8N, 60.°3E. Normal depth Near Afghanistan-Persia border. Yellow sea (120 km. W off Kōkaidō.) 38.°0N, 123.°3E. Felt at Dairen.	
		F	19	55	3.00									
			20	27	—									
	Heizyō	iP	8	44	12.6					N	—	27.9		
		iSN		44	40.5					E	—			
		F		51	—									
	Zinsen	iPE	8	44	24.3					E	—	33.6		
		ePz		44	24.7									
		iSN		44	57.9									
		iSz		45	01.4									
		iSE		45	04.7									
		MN		45	07.2	+ 16			4.5					
F			55	—										
Keizyō	ePNE	8	44	28.1							36.6			
	eSNE		45	04.7										
	F		55	—										
Taikyū	ePE	8	45	02.0?							58.5?			
	eSNE		46	00.5										
	F		50	30.										
Husan	S?	8	46	24.4										
	I?		46	58.5										
	F		54	10.2										
88	July ? Taikyū (Intensity) II	iPN	21	02	35.9				2.6	N -7.6	13.1	Strong Earthquake of Sokeizi, Keisyō- nandō, Tyōsen. 35.°14'N, 127.°39'E. Felt over southern half part of Tyōsen. Destructive at the epicentral region.		
		iPE		02	35.9				3.4	E -6.5				
		iSN		02	49.0	+ 33.3				2.4				
		iSE		02	49.1		- 26.1			2.4				
		MN		02	53.7	+ 12.2				3.2				
		ME		02	53.7		- 76			2.6				
		F		18	22.									
	Husan (Intensity) II	iPE	21	02	37.5				1.8	E -7.5	14.2			
		iPN		02	37.7				—	N +1.1				
		iSE		02	51.7									
		ME		02	55.8		- 119			2.9				
		MN		02	55.3	> +97								
F			16	25.										
Zinsen	iPz	21	02	58.6					Z +	33.8				
	iPNE		02	59.4					N +					
	ipNE		02	02.7					E -					
	iPNE		02	07.1										
	iSE		03	33.2										
	iSN		02	35.4										
	iSz		02	36.8										
	ME		03	41.0		- 26		19.						

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.		Amplitude			Period	First motion	Duration of P~S	Remarks
					AN	AE	Az				
		MN ₁	^h 03	^m 50.0	^s 50.0	+ 34			2.4		
		MN ₂	03	51.9		- 24					
		F	13	20.							
	Keizyō	iP _{NE}	21 02	58.8						30.6	
		pP _{NE}	03	02.3							
		iSE	03	29.4							
		sS _{NE} ?	03	28.2							
		ME	03	41.6		+ 66		3.2			
		MN ₁	03	49.3		+ 41		3.3			
		MN ₂	03	50.9		- 52		3.3			
		F	12	20.							
	Heizyō	P	11 03	23.5						1 03.5	
		S	04	27.0							
		M	04	56.7							
		F	17	—							
89	July 5 Husan	eP	4 49	16.3						11.8	After shock of No. 83.
		eS	49	23.0							
		F	50	05.2							
	Taikyū	P	4 49	24.1							
		F	50	14.1							
90	July 5 Zinsen	eP _N	19 06	55.5?						6 04.9?	Manila ; 3.°20'N, 126.°20'E. II=18°54'48".
		eS _N	07	00.4?							Felt in southern and eastern Mindanao, Sulu and Palau.
		eP _E	08	23.8							Batavia ;
		F	20 40	—							Felt in N. Moluccas and Mindanao.
	Taikyū	eP	19 01	39.?			Time uncertain			5 04.?	J. S. A ;
		eS	06	43.?							4.°0'N, 124.°9'E.
		eP	10	27.?							II=18°55'04".
		F	24	?							Depth=70km.
	Keizyō	eP _{NE}	19 01	40.1						5 10.2	U. G. E. G. I ; Region of Celebes ;
		eS _{NE}	06	50.3							U. S. C. G. S. ;
		F	49	—							6.°3'N, 127.°0'E. II=18°55'25".
	Heizyō	eP	19 01	50.3							Depth=120km. Pacific Ocean off Mindanao.
		F	20 40	—							
	Husan	eP	19 02	13.0						4 29.3	
		eS	06	42.2							
		F	26	04.4							
91	July 9 Husan	eP	5 19	20.0						6.1	Local.
		eS	19	26.1							

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	m	s	
96	July 13 Zinsen	eP _N	11	32	09.?						7	44.	J. S. A.; 23.°0S, 70.°2W. H=11h12m29s. Depth=60km. U. S. C. G. S.; 25.°0S, 69.°9W. H=11h12.3m. U. G. E. G. I.; 25°S, 71°W. Destructive at Taltal, coast of Chile. La Paz; 24°S, 70°W. Destructive at Chamal, Chile.
		eS _N		39	53.?								
		F	13	50	—								
	Taikyū	eP	11	32	26.7						3	25.3	
		e		36	52.0								
		eS	12	41	03.0								
		eI.		50	22.5								
	Heizyō	eP	11	32	28.9								
		F	13	38	—								
	Keizyō	eP _{NE?}	11	32	30.						3	16.?	
		eS _{NE?}		40	46.								
		F	13	33	—								
Husan	eP	11	33	08.8						3	40.5		
	eS		36	49.3									
	F	12	07	54.0									
97	July 15 Taikyū	eP	11	53	17.7							S off the Matizyō Island.	
		i		57	42.4								
		F	12	08	—								
98	July 20 Taikyū	eP	23	57	41.8							Tōkyō; 24.°4N, 120.°3E. Taiko, Sintikusyū, Formosa.	
		F	24	10	55.								
	July 21 Keizyō	eP _{NE?}	00	00	42.0						1		12.2?
eS _{NE?}		02	04.2										
F		12	—										
99	July 23 Keizyō	eP _{NE?}	7	03	46.0							U. S. C. G. S.; 10°S, 173°W. H=6h20.8m. Northwest of Samoa Islands.	
		F		23	—								
	Husan	e	7	11	55.9								
		F		26	10.1								
	Taikyū	e	7	12	49.0								
		F		19	01.0								
	Zinsen	eI _{N?}	7	13	10.								
		F		22	—								
100	July 28 Husan	eP	5	26	27.4					5	52.5	U. S. C. G. S.;	

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks
						AN	AE	Az				
			b	m	s	u	v	μ	s	μ	m	c
101	July 23 Husan	eS	22	20.0								
		F	6 06	55.0								2.°S, 142.°E. Depth normal. Near east coast of New Guinea.
102	Aug. 1 Zinsen	e	3 08	30.7								
		F	24	55.5								U. S. C. G. S ; 2.°S, 143.°E. H=7h52m29s Near northeast coast of New Guinea.
		eP	6 23	21.7?							5	02.0?
		eS	23	12.7								
		F	57	—								
												Nanking ; 24.°N, 106°E. Destructive at Tien-sui and Si-ho, Kansu, China.
	Heizyō	eP	6 23	22.5								
		F	56	—								
	Husan	eP	6 28	54.8							5	33.9
		eS	34	28.7								
		F	54	19.0								
	Keizyō	eP	6 22	42.3								
		F	42	—								
	Taikyū	eP	6 33	23.3							2	04.0
		S	36	37.3								
		F	51	—								
103	Aug. 7 Taikyū	e	2 29	21.1								
		F	42	29.0								
												Off Daitō, Formosa.
104	Aug. 9 Taikyū	eP	16 01	05.3	(minute uncertain.)							
		F	07	—								
												Manila ; 19°N, 119.°10'E. Felt at Bangui, Ilocos Norte.
105	Aug. 10 Taikyū	eI?	1 13	13.2								
		F	22	—								
												?
106	Aug. 13 Taikyū	P	20 08	24.7							4	48.7
		S	13	13.4								
		L	16	37.7								
		F	59	—								
												Felt in Northern and eastern Mindanao and in southern Leyte.
	Zinsen	eP?	20 08	37.7							4	50.5?
		eS?	13	28.2								
		F	21	04	—							
	Husan	eP	20 03	57.1							2	49.3
		S	12	48.9								
		F	21	15	52.7							

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	m	s	
110	Aug. 22 Husan	P	17	12	45.9						2	43.4	After shock of No. 109. 22.°2'N, 121.°1'E.
		eS	15	34.2									
		eL	17	47.2									
		F	24	19.0									
	Taikyū	P	11	12	52.7						2	53.6	
		eS	15	46.2									
		eL	17	21.9									
		F	25	—									
	Zinsen	eLN	11	13	02.4						2	00.3?	
		eSN?	16	02.7									
		F	23	—									
	Keizyō	eLNE	11	13	05.2						3	02.8	
eSE		16	08.1										
eLNE		18	25.7										
F		27	—										
111	Aug. 23 Zinsen	eLN	21	20	09.3						6	27.5	J. S. A ; 5.°8'N, 95.°4'E. H=21h12m19s Depth=90km. U. G. E. G. I ; 7°N, 94°E. H=21h12m14s SE of Nicobar Is- land, Destructive in North Sumatra, many victims, damages im- portant. Batavia ; Destructive in Atjeh, N. Sumatra.
		iNE	20	12.8	+ 6.3	+ 5.4		3.3, 3.3					
		iSN	26	36.8									
		eLN	24	36.9									
		MX	26	59.3	+ 455			17.5					
		ME	41	09.9		± 306		14.5					
		Mz	41	04.2				15.2					
	Husan	iPe	21	20	13.4					E +3.8	6	20.6	
		?	22	01.5									
		S	26	34.0									
		?	30	11.0									
		F	23	01	20.9								
Keizyō	iPNE	21	20	13.6					N +2	6	24.0		
	SNE	26	37.6					E +3					
	iSK ₁ E	30	02.4										
	eLNE	33	30.6										
	MX	40	35.8	+ 160			12.8						
	ME	41	20.4		- 160		12.7						
Taikyū	F	22	51	—									
	iP	21	20	13.7					N +3.3	6	23.0		
	PP	21	59.9					E +4.6					
	iS	26	41.7										
	SeS?	30	07.5										
	L	33	12.5										
MX	33	54.2	+ 152			12.7							

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks
				A _N	A _E	A _Z				
112	Sept. 2 Heizyō	M _E	h ⁴² m ^{21.7} s ^{30.}	μ	+ 171	μ	14.2			
		F	22 28 30.							
		P	21 20 17.9					6	27.0	
		S	26 44.9							
		i	30 11.9							
		eLN	33 17.9							
	Sept. 2 Heizyō	M _N	40 35.9	- 1:			13.			
		F	22 07 —							
		ePNE	2 17 13.3						24.3	
		iSNE	17 42.6							
		F	24 —							
		F	24 —							
Keizyō	ePNE	2 17 33.5						26.8		
	eSNE	18 00.3								
	F	20 —								
Zinsen	ePN	2 17 37.7						24.4		
	eSN	18 02.1								
	F	19 30.								
Taikyū	eS?	2 19 07.4								
	F	21 40.								
Husan	eS	2 19 32.0								
	e	19 41.5								
	F	20 33.0								
113	Sept. 2 Heizyō	iPNE	2 44 27.2					N —	24.6	
		iSNE	44 51.8					E —		
		F	54 —							
	Zinsen	ePE	2 44 33.3						33.2	
		eSN	45 11.5							
		M _N	45 12.9	- 12			1.9			
		F	47 30.							
	Keizyō	ePNE	2 44 42.3						28.0	
		iSN	45 10.3							
		eSE	45 14.4							
		F	49 03.0							
	Taikyū	eS?	2 46 16.3							
F		50 30.								
Husan	eS?	2 46 40.4								
	e	46 52.6								
	F	43 47.2								

W off Kōkaidō,
Tyōsen.
38.°3N, 123.°2E.
Felt at Dairen, Kei-
zyō.

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks	
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	m	s	
118	Sept. 8	ePE	7	59	01.2						1	24.4	Region of North China, Off the Okinawa Island.
		eSE		00	25.6								
		F		07	—								
119	Sept. 12	e	17	17	47.1								Tōkyō ; 24.°4N, 120.°85E, Vicinity of Taiko, Sintikusyū, Formosa.
		F		52	47.1								
119	Taikyū	eP	13	01	58.1						2	15.2	Tōkyō ; 24.°4N, 120.°85E, Vicinity of Taiko, Sintikusyū, Formosa.
		eS		05	13.2								
		F		30	—								
119	Zinsen	ePN	18	02	22.7						4	05.2	
		eSNE		06	27.9								
		F		14	—								
119	Keizyō	ePNE	18	02	26.8						3	52.2	
		eSNE		06	19.0								
		eENE		10	01.0								
		F		26	—								
119	Husan	eP	18	04	47.4						1	51.8	
		eS		06	39.2								
		F		21	54.4								
119	Heizyō	eP?	18	05	03.5								
		i		07	05.0								
		F		19	—								
120	Sept. 16	ePE	1	52	26.7						3	11.6	?
		eSE		56	23.3								
		F	2	06	—								
121	Sept. 18	P	18	41	14.1						3	54.4	SE off the Heizyō Island.
		S		45	03.5								
		F		21	57.0								
121	Taikyū	e	13	41	26.3								
		F		21	03.5								
121	Keizyō	ePNE	18	41	43.2						3	05.6	
		eSE		44	53.8								
		eLE		47	02.2								
		F	19	23	—								
121	Zinsen	iPEN	18	41	54.5						4	22.9	
		eSNE		45	17.4								
		F		21	—								

4. The Seismic Reports of Meteorological Observatories in Työsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	Az				
			h m s	μ	μ		s	μ	m s	
122	Sept. 19 Taikyū	P	1 09 32.5						6 36.4	Batavia ; 3.°6N, 97.°3E. Destructive in Karo district, North Sumatra, accompanied by many after shocks. J. S. A ; 4.°3N, 97.°8E. H=1h01m53s Depth = about 100 km.
		S	16 18.9							
		L	19 39.2							
		ME	26 55.4		+ 104		17.2			
		MN	26 55.4	- 93			16.8			
		F	37 43.1							
	Husan	P	1 09 41.4						6 33.8	
		S	16 15.2							
		L	21 28.7							
		ME	26 21.7		- 1071		18.9			
		MN	26 59.3	+ 1357			17.8			
		F	3 06 57.0							
	Zinsen	ePNE	1 09 45.4						7 20.5	
		eSNE	17 05.9							
		eLN	20 16.3							
		ME ₁	27 06.0		- 2025		20.2			
		MN ₁	29 14.0	+ 669			13.3			
		ME ₂	29 16.6		- 653		13.1			
		MN ₂	30 27.2	+ 900			15.4			
		Mz	30 04.7			+ 473	13.6			
	F	2 46 —								
	Keizyō	ePNE	1 09 43.3						5 38.2	
		eSNE	15 26.5							
		eLNE	21 20.9							
		M _{1E}	26 01.7		+ 1300		20.4			
		M _{1N}	26 02.3	- 360			19.4			
		M _{2N}	28 04.7	- 290			12.4			
M _{2E}		28 17.9		+ 600		13.6				
F	3 01 —									
Heizyō	ePNE	1 09 49.3						6 31.5		
	iSE	16 20.8								
	LN	22 59.8								
	ME	28 19.9		+ 146		15.3				
	MN	23 11.8	+ 93			12.3				
	F	2 04 —								
123	Sept. 19 Taikyū	eL?	6 38 23.5					6 23.0?	Batavia ; Felt in Atieh and Tapanoeli, N. Sumatra.	
		eS?	44 52.5							
		eI.	51 06.0							
		F	21 46.0							
	Zinsen	eN	6 40 —							
		eL?	52 —							
		F	7 21 —							

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks
						AN	AE	Az				
124	Sept. 24 Husan	eP?	h	m	s	μ	μ	μ	μ	μ	3 ^m 09.7 ^s Nanking ; Shaking several cities around Kiang- an and Tse-liu-tsin, Szechwan, China.	
		eS?	6	40	03.1							
		F	7	21	57.0							
	Taikyū	e	21	01	03.3							
		F		09	57.0							
		eP	21	01	10.3							
	Zinsen	eS		04	11.1							
		F		11	—							
		ePN?	21	01	31.5							
	Keizyō	eSN?		02	27.6							
		F		12	—							
		eSNE	21	02	55.3							
125	Sept. 25 Taikyū	F		14	—						U. S. C. G. S. ; 43.°5N, 128.°2W. H=12°53'06"	
		e	13	20	06.6							
		F		49	10.0							
126	Oct. 3 Husan	eP	21	54	46.0						4 01.9 Phulien ; 2°N, 124°E. Celebes Sea. Batavia ; Felt in N. Celebes.	
		eS		53	47.9							
		L	22	02	20.4							
		F		43	00.5							
	Taikyū	eP	21	57	01.4							
		S	22	02	23.9							
		F		44	26.3							
	Zinsen	ePN	21	57	01.9							
		ePR ₂ N		53	23.4							
		eSN	22	02	23.4							
		F		45	—							
	Keizyō	ePN	21	57	20.3							
eSNE		22	02	54.7								
F			41	—								
127	Oct. 5 Zinsen	ePNE?	7	13	35.						SE off the Hatizyō Island.	
		eIN?		18	50.							
		F		22	—							
123	Oct. 5 Heizyō	eI'	9	37	02.3						J. S. A. ; 3.°0N, 126.°4E. H=9°44'34" Depth=100km.	
		F		10	11	—						

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						AN	AE	Az					
			h	m	s	μ	μ	μ	s	μ	m	s	
	Husan	P	9	71	02.0						5	18.0	U. S. C. G. S ; 1°N, 127°E; U. G. I. C. I.; Region of Sangi Island, Celebes.
		S		58	20.0								
		F	10	22	57.1								
	Taikyū	eP	9	51	09.5						5	20.6	Batavia ; Felt in N. Moluccas and N. Celebes.
		is		51	10.2								
		S		56	20.0								
		i	10	01	22.2								
		eL		02	25.7								
		F		48	—								
	Zinsen	iPN	9	51	12.5				10.2	N 3.2	5	20.1	
		iPE		51	12.5					E —			
		iPz		51	13.8				3.9	Z +2.7			
		is		52	12.5								
		iSN		56	42.9	+ 11.4			15.0				
		iSE		56	43.8		- 10.0		10.0				
		eLE	10	00	12.6								
		F		11	02	—							
	Keizyō	iNE	9	51	21.0					N +2	5	22.6	
		iSE		56	23.6					E -2			
		eNE	10	02	29.6								
		F		55	—								
119	Oct. 10 Taikyū	e?	2	19	13.4								Manila ; Felt at Davao with intensity II.
		F		23	—								
	Keizyō	ePE?	2	19	20.9						6	27.4	
		eSE?		25	58.3								
		F		26	—								
120	Oct. 15 Taikyū	eP	4	21	01.9							59.2	Tōkyō ; 33.8°N, 132.2°E. Vicinity of the City of Matuyama.
		S		22	01.1								
		F		25	19.6								
131	Oct. 18 Keizyō	P?	16	37	22.4								Middle part of the Japan Sea ?
		L		37	16.4								
		F		52	—								
	Zinsen	eNE	16	27	57.7						1	31.3	
		eSEZ		29	29.5								
		ME		40	16.0		+ 17		3.9				
		F		56	—								
	Keizyō	eNE	16	27	31.3						1	52.3	
		eSE		29	47.6								
		ME		40	12.1		+ 21		3.3				

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	Az				
			h m s	μ	μ	μ	s	u m s		
		M _N	40 50.3	- 7			2.0			
		F	56 —							
	Utskyō	eP	16 40 49.0					1 48.2		
		i _E	41 14.6							
		S	42 27.2							
		F	53 —							
	Husa	eP	16 41 29.5					1 34.2		
		eS	43 03.8							
		F	50 21.0							
1936	Oct. 19									
	Husa	eS?	12 11 23.7						Batavia ; Felt in N. Moluccas.	
		F	15 19.0							
	Tōkyū	P	12 11 29.9					5 49.6		
		PP	13 14.0							
		S	17 29.5							
		L	23 50.0							
		F	55 06.0							
	Kazuyō	i _N	12 11 52.2					5 50.2		
		eP _N	12 22.7							
		eS _{NE}	17 52.5							
		F	25 —							
	Zūsen	i _N	12 11 56.4					5 27.5		
		eS _N	17 23.9							
		F	52 —							
1936	Oct. 19									
	Utskyō	P _E	19 57 24.8					1 09.9	Tōkyō ; 26.°5N, 135.°8E. (r) Off the mouth of the River of Ka- zuryū, Iukui Pre- fecture. Deep focus.	
		S _E	58 34.7							
		F	20 04 57.5							
	Kazuyō	i _{P_E}	19 57 29.0					E +1 1 16.9		
		i _{S_{NE}}	58 55.9							
		M _N	58 59.3	- 7			2.0			
		M _E	59 01.3		- 7		2.6			
		F	50 05 —							
	Zūsen	i _{P_E}	19 57 40.8					E +1.1 1 22.9		
		i _{P_Z}	57 41.6					Z -0.9		
		i _{S_N}	59 02.7	+ 5.6			4.1			
		i _{S_E}	59 04.7		+ 6.0		2.7			
		i _{S_Z}	59 04.8			+ 2.7	4.5			
		F	20 03 —							
1936	Oct. 19									
	Tōkyū	eP	14 27 52.6						Tōkyō ; 35.°0N, 133.°2E.	

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks
						AN	AE	Az				
			h	m	s	μ	μ	μ	s	μ	m	s
	Zinsen	eSEN F	10	06	36.7							
144	Oct. 26											
	Zinsen	eN eLN F	19	48	47.							
			55	06.								
			20	20	—							
	Taikyū	e F	19	49	13.0							
			20	24	10.0							
	Heizyō	i L F	19	50	11.1							
			55	50.1								
			20	13	—							
	Husan	e F	19	50	21.1							
			20	16	52.2							
	Keizyo	ePE? eSE eJNE ME F	19	50	24.7						3	24.4?
			53	49.1								
			56	09.7								
			57	53.9		—	43		16.0			
			20	21	—							
145	Oct. 29											
	Taikyū	PE eSE eL F	18	44	23.4						3	29.8
			47	53.2								
			56	07.2								
			19	45	13.2							
	Husan	P S F	13	44	23.3						4	36.1
			48	59.9								
			19	07	39.3							
	Keizyō	ePNE eSE eSRJE eLE F	13	44	44.6						6	31.3
			51	16.4								
			54	36.6								
			59	27.8								
			20	11	—							
	Zinsen	ePNE eSN F	13	44	49.3						4	50.3
			49	39.6								
			20	50	—							
146	Nov. 1											
	Keizyō	ePNE iSE SN F	17	59	47.1						29.0	
			18	00	26.1							
			00	26.5								
			02	—								
	Zinsen	iSNE	13	00	13.3							

Phulien ;
2°N, 98°E.
Batavia ;
Felt in N. and W.
Sumatra. (Medan ;
ip 19h33m00s).

U. S. C. G. S ;
12°N, 146°E.
Phulien ;
12°N, 145.°E.
Meriana Island,
Manila ;
Felt very strongly
in Guam. Some
damage to buildings.

Middle part of Yel-
low Sea ?

파 오 손 면

파 오 손 면

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks		
						AN	AE	Az						
154	Zinsen	ePE	h	m	s	μ	μ	μ	S	μ	m	g	Depth=200km.?	
		iPE	20	08	48.1						3	19.6		
		iSEN		08	52.6									
		F		12	07.7									
	Keizyō	ePNE	20	08	48.2						3	12.4		
		eSNE		12	00.6									
		F		24	--									
	Husan	P	20	03	50.0						3	13.4		
		S		12	03.4									
		F		25	26.7									
	Nov. 13 Keizyō	ePNE	12	37	41.2						5	22.0	J. S. A.; 56.7°N, 162.3°E. H=12h21m37s Depth=40-50km. U. S. C. G. S.; 57.°N, 163.°E. U. G. E. G. I.; 56.°N, 162.°E.	
		ePR ₁ NE		38	51.2									
		eSNE		43	03.2									
		eLNE		47	09.2									
		M _N		50	54.8	- 230				13.6				
		M _E		54	59.6		- 160			12.8				
		F	14	52	--									
	Heizyō	eP	12	37	44.1						5	07.5	Bering Sea.	
		iSNE		42	51.6									
		iLNE		48	16.6									
		M _N		49	11.6	+ 128				16.5				
		M _E		49	59.4		- 134			14.4				
		C		57	45.6									
F		13	56	--										
Zinsen	eP _N	12	37	51.3						5	11.5			
	iPP _E		38	51.2										
	eSEN		43	02.8										
	M _{N1}		51	03.6	- 504				17.4					
	M _{E1}		51	30.4		+ 285			13.0					
	M _{E2}		54	04.0		+ 380			13.0					
	M _Z		54	12.9			+ 373		16.0					
	M _{N2}		55	48.0	- 347				13.6					
	F	14	34	--										
Husan	P	12	37	52.8						6	59.1			
	S		44	51.9										
	M _E		50	08.3		- 529			18.9					
	F	14	37	22.6										
155	Nov. 14 Husan	eP	1	00	48.3					4	10.6	Tōkyō; 38.°N, 142.°E. SE off Kinkasan, Miyagi Prefecture.		
		eS		04	58.9									
		F		21	19.7									
	Keizyō	eP _E	1	01	02.8						3	32.8		

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	Az				
			h m s	μ	μ	μ	s	μ m s		
156	Nov. 14 Husan	eSE	04 36.6							
		eLE	06 09.8							
		F	13 —							
	Keizyō	eP	1 26 03.1					1	03.6	Vicinity of Tanegasima.
		eS	27 11.7							
		F	35 19.6							
	Zinsen	ePNE	1 28 29.2							
		F	36 —							
	157	Nov. 16 Husan	eSNE	1 29 01.0						
F			35 —							
eP			23 33 56.1					2	52.3	
eS		36 48.4								
F		24 03 03.5								
Keizyō		ePNE	23 34 26.0					3	26.0	
		eSNE	37 52.0							
		F	24 05 —							
Zinsen		ePNE	23 34 34.0					3	12.3	
	eSN	37 46.3								
	F	59 —								
158	Nov. 19 Keizyō	ePE?	22 19 21.4						Distant.	
		F	29 —							
159	Nov. 21 Husan	eS	21 50 39.7						Tōkyō ; 38.°0N, 141.°6E. (m) SE off Kinkasan.	
		F	22 00 38.2							
160	Nov. 25 Husan	eP	11 47 37.5						ESE off the cape of Noshappu, Hokkaidō district.	
		F	58 18.5							
161	Nov. 29 Keizyō	eP	22 53 59.5					5	19.8	Distant.
		eSE	59 19.3							
		eLE	23 03 22.1							
		F	— 09 —							
	Husan	eS	22 59 06.5							
		F	23 19 54.9							
162	Nov. 30 Husan	eP	23 53 05.5					5	35.3	Manila ;

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1936.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks		
						AN	AE	Az						
			h	m	s	μ	μ	μ	s	μ	μ			
163	Dec. 1 Husan	S	58	40.0								Probably near Baguio.		
		F	24	26	49.4									
		Keizyō	ePE	23	59	18.3								
			F	24	18	—								
		Husan	iP	6	10	29.4					N +2		+8.0	Tōkyō ; 30.°N, 129.°E. (r) WNW off Yakuzima, Kagosima Prefecture. Depth=270km.
			S	11	17.4						E +4			
			M _N	11	42.5	+ 167			5.8					
	M _E		11	42.5		- 253		6.1						
	?		17	57.8										
	F		40	48.1										
	Zinsen	iPz	6	11	01.0					N +2.3	1 12.1			
		iPE	11	01.6						E -1.0				
		iPN	11	01.6						Z +2.2				
		iSz	12	22.7										
		iSEN	12	24.7										
		Mz	12	27.2			± 35	4.8						
		M _{E1}	12	29.3		- 104		5.8						
		M _{N1}	12	30.3	- 37			5.3						
		M _{E2}	13	19.0		± 70		7.2						
		M _{N2}	13	21.4	- 53			7.2						
		ScSEN	23	52.8										
	F	32	—											
	Keizyō	iPNE	6	11	01.9					N +4	1 17.2			
iSNE		12	19.1						E -2					
M _{E1}		12	28.8		- 77		7.2							
M _{E2}		13	21.8		+ 47		5.2							
M _N		13	31.8	- 30			6.0							
ePPE		23	52.1											
F	50	—												
Keizyō	ePN	6	11	21.2						1 42.0				
	iSNE	13	03.2											
	I	14	09.2											
	M _E	14	15.8											
	F	35	—											
164	Dec. 7 Husan	e	21	30	12.2						Vicinity of Naze.			
		F	39	12.3										
	Keizyō	ePNE	21	31	14.2									
		F	41	—										
165	Dec. 8 Husan	eS	10	34	17.8						Manila ; Probably in Ormoc Bay. Felt strongly			
		F	50	11.2										

4. The Seismic Reports of Meteorological Observatories in Tyōsen in the Year 1935.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks			
						A _N	A _E	A _Z							
			h	m	s	μ	μ	μ	s	μ	m	s			
166	Dec. 13 Husan	eP _E ? F	10	36	36.8								at Ormoc, Leyte. Also at Hinundayan, Leyte.		
		P	21	36	21.1						1	37.3	Manila ; Felt in Guam with intensity VII.		
		eS		37	58.4										
		L		41	01.9										
	F	22	07	53.2											
	Keizyō	eP _N	21	36	48.6						4	19.2			
		eS _E F		41	07.8										
	Zinsen	e	21	41	—										
		F	22	03	—										
	167	Dec. 14 Husan	eP	4	08	42.6						4	04.4		
eS				12	47.0										
F				39	51.6										
Keizyō		eP _{NE}	4	08	53.3						4	25.0			
		eS _{NE}		13	18.3										
		eI _{NE}		16	35.3										
		F		45	—										
168		Dec. 27 Husan	eP	0	16	54.0						1	57.6		Tōkyō ; 34.°25'N, 139.°10'E. (r) Off Niijima. Destructive at Niijima and Sikinezima, 3 killed, 70 wounded, and 35 houses totally, 473 houses partially destroyed. Many after shocks accompanied.
			eS		18	51.6									
			?		25	14.1									
	F			49	42.2										
	Keizyō	eP _E	0	17	22.4						2	23.8			
		eS _{NE}		19	46.2										
		F		49	—										
	Zinsen	eP	0	17	22.8						2	04.8			
		eS _N		19	27.6										
		F		48	—										
Keizyō	eP _{NE}	0	17	40.3						2	30.0				
	eS _N		20	10.3											
	F		42	—											
169	Dec. 27 Husan	eP	2	14	18.1						1	52.7	After shocks of No. 168. 34.°4N, 139.°2E.		
		eS		16	10.8										
		F		34	41.4										
	Zinsen	eS _N	2	17	46.7										
		F		33	—										

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(仁川)

京城府蓬萊町三丁目六二・三番地

印刷者 吉村守雄

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The Seismological Bulletin
of
Weather Bureau of Tyōsen
For the Year
1937

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Compiled
By
Weather Bureau of Tyōsen,
The Government General of Tyōsen,
Zinsen, Tyōsen, Nippon.
1938

Preface.

The present volume is the fifth one of the new series of the Seismological Bulletin of Weather Bureau of Tyōsen, the Government General of Tyōsen, which was put in circulation once a year quite independent of the Annual Report of the Meteorology of this bureau since the year 1933. Now-a-days, in Tyōsen, slight attention is given to the study of earthquake owing to a minority of local shocks. Nevertheless, about 300 years ago, at an active period, frequent strong shocks were experienced all over the peninsula and inflicted severe damage to the buildings and human beings. Therefore, the seismological observation must not be neglected even in the present time of less activity.

Accordingly, in this report, whole the local shocks which occurred in the peninsula and its neighbouring seas are described with minute description of their seismometrical elements observed at this bureau and the other local observatories.

The present report is compiled by K. Hayata and T. Takeisi, the seismological experts of this bureau.

M. Kawano,

Director,

Weather Bureau of Tyōsen, Nippon.

December 1, 1938

I. Introduction.

The present publication contains the results of the seismometrical observations made at Weather Bureau of Tyōsen, Zinsen, and the local meteorological observatories in Tyōsen in the year 1937.

Symbols and Notations:-

- P Normal first phase (longitudinal waves).
- P' First preliminary tremors which have penetrated the earth's core.
- PR_n Longitudinal waves n-times reflected at the earth's surface.
- S Normal second phase (transverse waves).
- SR_n Transverse waves n-times reflected at the earth's surface.
- PS Waves changed from longitudinal to transverse oscillation on reflecting at the earth's surface.
- L Long waves at the beginning of the surface waves.
- M Largest motion in the surface phase.
- C Tail or end portion.
- PcP Longitudinal waves reflected at the earth's core.
- ScS Transverse waves reflected at the earth's core.
- F End of the discernible movement.
- i Sudden or distinct commencement of a phase.
- e Gradual or indistinct commencement of a phase.
- A_N N-S component of amplitude.
- A_E E-W component of amplitude.
- A_Z Vertical component of amplitude.
- + Displacement toward north, east or zenith.
- Displacement toward south, west or nadir.
- (r) Remarkable earthquake; Major radius of the felt area is greater than 300km.
- (m) Moderate earthquake; Major radius of the felt area is less than 300km. and greater than 200km.

Time:- Time is referred to Greenwich Mean Time.

2. Seismological stations in Tyōsen.

(1) Weather Bureau of Tyōsen, Zinsen.

Longitude λ ; 126° 38'E Latitude φ ; 37° 29'N

Height above mean sea level; 69.7m.

Geological nature of the ground; Grey Granite-gneiss.

Instruments and constants (approximate):-

M; Mass of the pendulum. V; Static Magnification.

T; Proper period of the pendulum. $\frac{r}{T^2}$; Coefficient of friction.

ϵ ; Damping coefficient.

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	92	5.3	0.012	3.7
	E-W		104	5.5	0.017	3.8
	Z		76	5.1	0.019	3.6
Oomori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.03	
	Z	12	50	4.0	0.03	
Seismograph of low magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2
Oomori's Tromometer	N-S	50	150	15.0	0.05	
	E-W	50	150	15.0	0.05	

(2) Keizyō Meteorological Observatory.

Longitude λ ; 126° 58'E Latitude ϕ ; 37° 34'N

Height above mean sea level; 85.5m.

Geological nature of the ground; Granite.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	99	4.7	0.023	4.8
	E-W		99	4.7	0.015	4.8
Oomori's Portable Seismograph	N-S	12	50	3.5	0.03	
	E-W	12	50	3.5	0.03	

(3) Taikyū Meteorological Observatory.

Longitude λ ; 128° 36'E Latitude ϕ ; 35° 52'N

Height above mean sea level; 50.5m.

Geological nature of the ground; Shale.

Instruments and constants (approximate);-

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	90	5.8	0.018	2.9
	E-W		92	5.8	0.017	3.2
Oomori's Portable Seismograph	N-S	12	50	4.0	0.02	
	E-W	12	50	4.0	0.02	
Seismograph of Low Magnification	N-S	2.3	2	4.0	0.03	2
	E-W	2.3	2	4.0	0.03	2
	Z	1.5	2	4.0	0.03	2

(4) Husan Meteorological Observatory.Longitude λ ; 129° 02'E Latitude φ ; 35° 06'N

Height above mean sea level; 70.5m.

Geological nature of the ground; Porphyrite.

Instruments and constants (approximate):—

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
Wiechert's Seismograph	N-S	200	88	5.2	0.08	5.5
	E-W		80	5.4	0.03	4.4

(5) Heizyō Meteorological Observatory.Longitude λ ; 125° 45'E Latitude φ ; 39° 02'N

Height above mean sea level; 51.0m.

Geological nature of the ground; Diorite.

Instrument and constants (approximate):—

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
C. M. O. Portable Seismograph	N-S	17.7	50	6.0	0.024	
	E-W	17.9	50	6.0	0.023	
Seismograph of Low Magnification	N-S	2.0	2	6.0	0.02	2
	E-W	2.0	2	6.0	0.02	2
	Z	0.2	2	2.0	0.03	2

(6) Syūhūrei Meteorological Observatory.Longitude λ ; 128° 00'E Latitude φ ; 36° 13'N

Height above mean sea level; 210.0m.

Geological nature of the ground; Granite.

Instrument and constants (approximate):—

Instrument	Component	M kg	V	T sec	$\frac{r}{T^2}$ mm/sec ²	ϵ
C. M. O. Portable Seismograph	N-S	18	40	4.5	0.01	2.9
	E-W	18	40	3.8	0.12	2.6

**3. The Earthquakes which occurred in Tyōsen
in the Year 1937.**

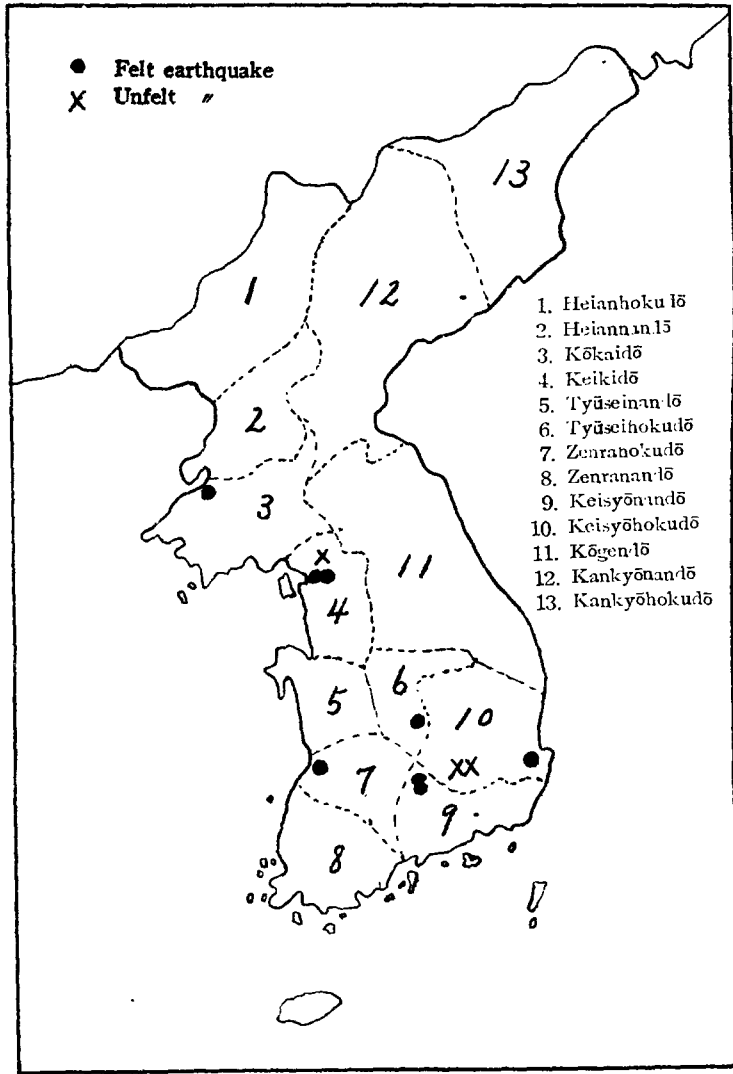
The number of the earthquakes which occurred in Tyōsen and its neighbouring in this year amounted to 11, and 8 of them were felt by person in the epicentral region. The number of unfelt earthquakes amounted to 3. Their scales were very small.

The felt earthquakes which occurred in
Tyōsen in the year 1937.

No.	Date	G.M.T. h m	Intensity	Earth Sound	Epicenter
1	Jan. 24	19 00	III; Kaizyō, Hōtoke, Hasyū etc. II; Keizyō, Hōsen, Kōka etc. I; Zinsen, Anzyō, Suigen etc. (Felt over Keikidō and western part of Kōgendō.)	Strong	Lower reaches of the river of Kan- kō. 37°43'N, 126°47'E.
2	Feb. 1	22 43	III; Tirei. I; Kan'yō.	Feeble	NW part of Keisyōnandō.
3	Feb. 21	19 43	III; Kyōsen, Kan'yō. II; Sansai.	Feeble	Ditto.
4	Mar. 15	17 45	III; Syariin. II; Kōsyū, Sin'in, Sainei etc. I; Zinsen, Keizyō, Kaizyō etc. (Felt over Kōkaidō and in southern part of Heiannandō, northern part of Keikidō.)	Strong	The mouth of the river of Sainei. 38°31'N, 125°40'E.
5	May 26	4 45	II; Yokukōgun.	—	Yokukōgun, Zenrahokudō.
6	Jul. 29	0 55	I; Keisyū.	—	Keisyū, Keisyōhokudō.
7	Sept. 8	13 39	I; Zinsen.	—	Lower reaches of the river of Kan- kō.
8	Dec. 17	13 50	II; Eidō.	Feeble	Eidō, Tyūseihokudō.

The unfelt earthquakes which occurred in
Tyōsen in the year 1937.

No.	Date	G. M. T. h m	Epicenter
1	Mar. 14	7 50	Vicinity of Taikyū? Local.
2	Mar. 23	16 19	Vicinity of Taikyū. Local.
3	Sept. 8	13 40	Lower reaches of the rives of Kankō.



The map of distribution of the epicenters of earthquakes which occurred in Tyōsen in the Year 1937.

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks
						AN	AE	Az			μ	μ	
			h	m	s	μ	μ	μ	s	μ	m	s	
1	Jan. 5 Husan	P	11	11	41.5						1	58.7	Tōkyō ; 28.°0N, 139.°6E. Depth=500km. (r)270km. WNWoff Titizima(Bonin Isl). Abnormally felt at Titizima Utunomiya and others.
		S		12	40.2								
		M _N		13	44.9	-	12			4.8			
		M _E		13	44.9			-	19	4.8			
		F		23	11.9								
	Taikyū	eP	11	11	50.0						2	66.7	
		S		12	56.7								
		F		24	39.0								
	Keizyō	eP _{NE}	11	12	09.1						2	18.8	
		eS _{NE}		14	27.9								
		i _{NE}		14	40.5								
		eI _{NE}		17	23.9								
		F		29	—								
	Zinsen	eP _N	11	12	16.8						2	26.2	
		iS _{NE}		14	43.0								
F			22	—									
Heizyō	eP	11	12	27.3						2	40.8		
	S		15	08.1									
	F		28	—									
2	Jan. 5 Keizyō	eP _{NE}	21	09	40.3						1	52.0	Tōkyō ; 31.°6N, 132.°3E. Southern part of Hy- ūganada, Kyūsyū. I ; Oita.
		eS _{NE}		11	32.3								
		F		14	—								
3	Jan. 5 Taikyū	eP	21	38	00.6						4	22.3	
		S		42	22.9								
		M _E		43	49.5			+	22	11.1			
		M _N		44	29.5	-	63			10.2			
		F		22	11	14.							
	Syūhūrei	P	21	39	47.2						1	31.3	
		S		41	18.5								
		F		22	06	—							
	Zinsen	eP _N	21	39	50.0						1	58.2	
		eP _E		39	51.2								
		eS _E		41	48.2								
		eS _N		41	48.9								
		M _N		44	56.9	+	63			8.4			
		M _E		44	59.2			-	55	8.4			
		i _{NE}		57	06.0								
F			22	27	—								

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks	
						AN	AE	Az						
			h	m	s	μ	μ	μ	s	μ	m	s		
4	Jan. 7	Keizyō	e ^l NE	21	39	53.0						2	11.3	
			iNE		41	24.2								
			eSNE		42	09.8								
			eINE		44	02.6								
			ME		44	59.7		+	54		8.3			
			MX		45	37.3	-	46			3.0			
			eNE		56	23.3								
		F		22	21	—								
		Heizyō	eP	21	40	22.5						2	30.0	
			S		42	52.5								
			F	22	14	—								
		Husan	e	4	31	22.0								After shock of No.2.
		F		41	29.8									
	Taikyū	e	4	32	04.0									
		F		42	—									
	Zinsen	eSN?	4	33	10.									
		F		40	—									
5	Jan. 7	Keizyō	e ^l E	4	33	11.6								
			F		41	—								
		Husan	P	6	14	43.8						2	07.3	Tōkyō ; 23.°3N, 142.°0E. (r)40km E off Koizumi Bay, Miyagi Prefecture. Felt over Tōhoku, Kantō, Hokkaidō and Tōyūbu districts.
			S		16	51.1								
			eI.		18	17.8								
			F		32	39.3								
		Taikyū	P	6	14	47.1						2	09.9	
			S		16	57.0								
			F		29	00.0								
		Keizyō	e ^l E	6	14	58.2						2	20.2	
			eSNE		17	13.4								
			eINE		18	14.6								
		F		34	—									
	Zinsen	e ^l E	6	14	58.4						2	17.3		
		eSN		17	15.7									
		F		37	—									
	Heizyō	eP	6	14	58.5									
		I		13	16.5									
		F		30	—									
6	Jan. 7	Heizyō	i ^l NE	13	25	42.3				E	—	4	00.0	Zinsen ;

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						A _N	A _E	A _Z					
7	Jan. 20	iS _{NE}	h 13	m 29	s 42.3	μ	μ	μ	s	μ	m s	32.°N, 100.°E, Chuan Pien, China J. S. A ; 26.°N, 93.°E. H=13h 20m 40s Depth=Normal. Koko-Nor, China. U. G. E. G. I ; 34.°N, 95.°E. Thibet. U. S. C. G. S ; 25.°N, 97.°E. Nanking ; 35.°N, 97°E.	
		L		33	21.3								
		M _N		34	57.3								
		M _E		35	48.3								
		C		45	54.3								
		F		56	—								
		Zinsen	iP _Z	13	25	48.4					N+2.0		4 05.3
		iS _Z		29	54.2						E-60.0		
		M _{Z1}		30	09.0			+ 1610		11.5	Z-52.3		
		iL _Z		32	15.6								
		M _{Z2}		35	39.4					14.0			
		M _E	unknown					>±3000					
		M _N	unknown				>+2000						
		F		15	42	—							
	Syūhūrei	P	13	26	01.5						4 24.2		
		S		30	25.7	+ 5	+ 21						
		L		33	25.9	+ 10	+ 4						
		M _{N1}		34	25.7	- 20							
		M _{N2}		35	43.4	+ 16			12.				
		F		14	29	—							
	Taikyū	P	13	26	06.6						5 48.6?		
		S?		31	55.2								
		L		34	14.2								
		F		15	18	23.6							
	Husan	iP	13	26	10.0						4 19.3		
		S		30	29.3								
		M _{N1}		30	51.3	- 831			15.7				
		M _{E1}		30	51.3		+ 1623		13.9				
?			33	37.6									
M _{N2}			36	30.7	+ 1039			12.0					
M _{E2}			36	30.7		+ 1590		15.4					
F		15	43	37.1									
Jan. 20	Husan	e	0	05	54.4						Tōkyō ; 42.°N, 142.°E. (m)30km, South off Urakawa, Hokkaidō, Felt in Hokkaidō and Tōhoku districts.		
		F		14	30.4								
	Taikyū	eP	0	05	57.4								
		F		14	34.4								
	Keizyō	eP _{NE}	0	05	59.0							3 12.0	
		eS _{NE}		09	11.0								
		F		14	—								
	Jan. 21	Taikyū	eP	2	02	10.5							?
F				09	—								

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks		
						AN	AE	AZ						
		F	h	m	s	μ	μ	μ	s	μ	m	s		
13	Jan. 25 Zinsen (Intensity) (I)		19	02	—									
		iPZ	19	00	22.9					N	—	4.5		
		iPNE	00	23.4						F	—			
		iSNEZ	00	27.9						Z	+			
		MN	00	23.4		±	13			—				
		ME	00	23.4				+	27	—				
		MZ	00	23.4						+	16			
	F	02	10.											
	Heizyō	eP	19	00	42.8							21.6		
		S	01	04.4										
		F	07	—										
	Taikyū	eP	19	00	52.2									
		F	01	—?										
	Husan	eP	19	01	16.0							42.5		
		eS	01	53.5										
		F	04	04.5										
	Syūhūrei	P	6	43	39.3							7	54.5	J. S. A ; 10.°6S, 163.°3E. H=6h 34m 00s U. S. C. G. S ; 12°S, 164°E Region of Solomon Isl.
		S	51	34.3										
		F	7	43	—									
	Husan	P	6	43	41.4							7	44.4	
S		51	25.8											
L		57	47.1											
F		8	13	01.3										
Taikyū	P	6	43	55.0?							8	05.7		
	S	52	00.7											
	L	53	24.3											
	F	8	12	46.1										
Zinsen	ePNE	6	43	56.6							3	03.4		
	iSNE	52	00.0											
	eLE	58	58.0											
	ME	7	02	56.1				±	200	24.3				
	MN	05	13.8		±	137			17.0					
F	8	30	—											
Keizyō	ePNE	6	43	59.6							8	02.8		
	eSNE	52	02.4											
	eLNE	7	00	10.4										
	MN	02	12.2		+	150			23.0					
	ME	02	52.8					±	150	23.4				
F	3	02	—											
Heizyō	eP	6	44	12.1							3	15.0		

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks	
				A _N	A _E	A _Z					
14	Jan. 27	S	h m s 6 52 27.1	μ	μ	μ	s	μ	m s	Tōkyō ; 32.°7N, 130.°3E. (m) Vicinity of Kumamoto City. Felt over Kyūsyū district.	
		L	7 00 24.1								
		ME	03 57.1	+ 30			16.				
		F	37 —								
		Husan	P	7 05 36.2							34.8
			S	06 11.0							
			F	16 51.5							
		Taikyū	P	7 05 52.8							46.1
			iS	06 38.9							
			F	17 —							
		Syūhūrei	P	7 06 03.6							49.3
			S	06 50.4							
			F	10 —							
		Keizyō	eN	7 06 37.0							55.6
eSE	07 32.6										
F	16 —										
Zinsen	eN	7 07 10.4									
	eSE	07 47.9									
	F	10 —									
Heizyō	eP?	7 07 27.4						1 12.0?			
	S	08 39.4									
	F	18 —									
15	Jan. 23	Husan	P	0 44 33.3					35.1	After shock of No. 14. 32.°7N, 130.°3E. Felt over Kyūsyū district.	
			S	45 08.4							
			F	53 47.3							
		Taikyū	eP	0 44 37.3							57.2
			S _N	45 34.5							
			S _E	45 37.2							
			F	51 —							
		Keizyō	eN	0 45 24.6							1 03.6
			eSE	46 23.2							
			F	56 —							
		Zinsen	eNE	0 46 13.6							
			eSNE	46 44.7							
			F	49 —							
		Heizyō	eP?	0 46 50.5							
F	52 —										

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks			
						AN	AE	Az							
			h	m	s	μ	μ	μ	s	μ	m	s			
16	Jan. 29 Keizyō	eP _{NE}	14	10	39.1						4	43.8	East of Karenkō, Formosa.		
		eS _{NE}		15	22.9										
		F		23	—										
17	Jan. 29 Husan	P	17	29	56.1						3	45.7	SE off Titizima.		
		S		33	41.8										
		F		52	39.4										
	Taikyū	eP	17	29	59.1						3	57.8			
		eS		33	56.9										
		F		46	32.										
	Syūhūrei	P	17	30	14.9										
		F		33	—										
	Zinsen	iP _{NE}	17	30	24.4					N —	4	08.5			
		eS _N		34	32.9					E +					
		F		46	—					Z —					
	Keizyō	eP _{NE}	17	30	25.3						4	08.8			
eS _{NE}			34	34.1											
eL _{NE}			37	42.3											
F			49	—											
Heizyō	iP _{NE}	17	30	43.1											
	F		44	—											
18	Jan. 29 Keizyō	eP _{E?}	21	24	29.5						1	51.6?	Vicinity of Yonaku- nizima.		
		eS _E		26	21.1										
		eL _E		28	42.9										
		F		33	—										
19	Jan. 30 Husan	e	1	14	10.8							Tōkyō ; 35.°5'N, 138.°2'E. (m)South off the cape of Omae, Sizuoka Prefecture, Felt in Tyūbu and Kinki districts.			
		F		23	38.6										
	Taikyū	e	1	14	21.6										
		F		25	23.8										
	Zinsen	eL	1	14	57.										
		F		24	—										
	Keizyō	eL	1	16	38.										
		F		23	—										
	20	Jan. 30 Husan	e	6	30	45.4									?
			F		48	38.0									

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S		Remarks
				AN	AE	Az			m	s	
21	Feb. 1 Taikyū	e	h 6 35 02.1	μ	μ	μ	s	μ	m s	NW part of Keisyōn-andō. Felt in epicentral region.	
		F	42 31.0								
	Zinsen	e	6 37 --								
		F	7 00 --								
	Taikyū	P	22 43 23.5						7.6		
		S	43 31.3								
F		43 41.8									
22	Feb. 8 Husan	eP	12 19 07.1						28.4	Tōkyō ; 33.°5N, 132.°0E. Bungo Strait. Felt in Sikoku, Kyū-syū and Tyūgoku districts.	
		eS	19 35.5								
		F	21 47.9								
	Taikyū	P	12 19 26.6						1 06.8		
		S	20 33.4								
		F	23 04.0								
Keizyō	ePNE	12 20 52.9						46.0?			
	eSNE?	21 38.9									
	F	24 --									
23	Feb. 10 Keizyō	eE	2 53 30.						?		
		eL-E	57 26.								
		F	3 02 --								
24	Feb. 12 Zinsen	ePN?	5 42 10.8						3 02.1?	Distant.	
		eSN?	45 12.9								
		F	56 --								
	Keizyō	eSNE?	5 46 19.4								
		eLNE	47 45.8								
		F	57 --								
25	Feb. 12 Keizyō	eE	19 36 54.							Distant.	
		F	47 --								
26	Feb. 13 Keizyō	eE	5 16 07.							Southern part of Hyūganada.	
		F	23 --								
27	Feb. 14 Husan	P	1 06 05.5						34.0	Tōkyō ; 33.°3N, 132.°1E. Bungo Strait. Felt in Sikoku, Kyū-syū and Tyūgoku districts.	
		S	06 39.5								
		ME	06 56.2								
		F	09 41.5				2.5				

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				AN	AE	Az				
	Husan	P	h m s 7 06 59.9	μ	μ	μ	s	μ	3 ^m 41.7 ^s	U. S. C. G. S.; 45°N, 148°E. U. G. E. G. I.; 47°N, 143°E.
S		10 32.6								
L		11 25.0								
ME		14 20.2		± 1886		18.8				
F		Lost in next quake.								
	Keizyō	e ¹ NE	7 05 52.5						3 22.0	
i ¹ N		10 14.5								
ME		15 08.1		+ 1950		17.0				
MN		15 16.1	- 810			17.0				
F		Lost in next quake.								
	Zinsen	i ¹ N	7 06 54.9					N	- 3 31.8	
i ¹ Z		06 56.8					E	-		
i ¹ N		10 26.7					Z	+		
eSz		10 35.2								
eLN		12 24.2								
eLz		12 34.7								
Mz		15 19.0		- 2420		15.2				
MN		15 25.0	- 1270			16.0				
F	Lost in next quake.									
	Syūhūrei	P	7 06 55.2						3 39.0	
S		10 24.2								
L		11 23.0								
ME		13 43.8		± 100		21.6				
F		8 28 -								
	Heizyō	i ¹ E	7 06 58.5					E	- 3 33.0	
i ¹ N		10 31.5								
L		12 01.5								
ME		15 02.4		- 120		16.8				
MN		16 52.5	+ 86			15.0				
F		Lost in next quake.								
32	Feb. 21									
	Husan	P	7 30 41.2						2 35.5	After shock of No. 31
eS		33 16.7								
F		9 46 59.8								
	Taikyū	P	7 30 42.3						2 44.4	
eS		33 26.7								
L		35 26.7								
ME		37 08.5		+ 454		18.5				
MN		37 08.7	- 753			20.2				
C		41 26.7								
F		9 57 -								
	Keizyō	e ¹ NE	7 30 42.9						3 29.2	
e ¹ NE		34 12.1								
F		Lost in next quake.								

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks
				A _N	A _E	A _Z				
33	Feb. 21 Keizyō	P	7 30 46.5						3 43.5	Tōkyō ; 44.°5N, 150.°0E. (m)SE off Etorō Isl. Felt at Kuroiro.
		S	34 26.0							
		L	36 52.5							
		M _{NE}	38 22.5	- 13	- 40		15.0			
		F	8 52 —							
	Zinsen	eP _Z	7 30 43.4						3 46.8	
		eP _N	30 48.9							
		eS _N	34 25.2							
		eL _N	35 46.7							
		M _N	36 49.0	+ 500			21.6			
		eL _Z	37 07.3							
		M _Z	38 36.5			+ 722	17.0			
		F _N	9 00 —							
	F _Z	22 —								
	Feb. 21 Husan	eP _{NE}	10 56 22.9						3 42.0	
		eS _{NE}	11 00 04.9							
		eL _{NE}	02 31.2							
		F	18 —							
		P	10 56 22.8						3 36.9	
		S	11 00 00.7							
L		02 19.2								
F		14 59.6								
Taikyū		P	10 56 26.0						3 43.2	
		S	11 00 03.2							
	L	02 03.2								
	F	18 —								
Zinsen	iP _N	10 56 27.1						3 58.6		
	eS _N	11 00 15.7								
	F	11 10 —								
Feb. 21 Husan	eP	19 42 31.9						14.4		
	eS	43 46.3								
	F	44 02.6								
	Taikyū	P	19 43 32.6							
		F	44 00.3							
	Feb. 21 Taikyū	eP	22 32 22.9							
L		39 22.9								
F		23 01 —								
Husan		eP	22 33 39.6							
		eL	39 41.1							

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S		Remarks	
				A _N	A _E	A _Z			μ	σ		
			h m s	μ	μ	μ	s	μ	m s			
40	Zinsen	eL _E F	0 23 — 28 —									
	Feb. 23 Taikyū	eP eS eL F	0 51 38.4 56 22.9 57 23.4 1 51 —						4 45.5		Tōkyō; 44.°3N, 149.°5E. (r)SE off Etorō Isl. Felt at Kusiro.	
	Heizyō	eP L F	0 52 16.8 57 46.8 1 16 —									
	Keizyō	eL _{NE} eS _{NE} eL _{NE} F	0 52 27.1 56 15.5 57 29.5 2 11 —						3 48.4			
	Husan	P S L F	0 52 28.0 55 59.4 57 34.5 1 54 51.1						3 31.4			
	Zinsen	eP _{EN} eS _{EN} eL _E M _E F	0 52 28.9 56 15.1 58 22.7 1 00 52.6 2 13 —		± 75		16.9		3 46.2			
	41	Feb. 23 Taikyū	e F	14 00 27.2 14 09 14.3								Off Etorō Isl.
		Keizyō	eL _E F	14 01 54.0 10 —								
		Feb. 25 Keizyō	eL F	20 19 11.0 27 —								Distant.
	43	Feb. 26 Husan	P eS L F	4 18 40.4 22 07.5 26 13.4 46 35.0						3 27.1		Off Etorō Isl.
		Zinsen	eL _N ? eS _N ? eL _N ? F	4 18 47.6 22 33.4 24 13.2 44 —						3 45.8?		

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S		Remarks
				AN	AE	Az			μ	s	
			h m s	μ	μ	μ	s	μ	m s		
44	Feb. 26 Keizyō	e ¹ E	23 23 27.6						4	37.2	Ditto.
		e ² SE	28 04.3								
		F	34 —								
45	Feb 27. Zinsen	e ¹ N?	1 17 09.5						3	58.0?	Tōkyō ; 36.°4N, 141.°6E. Kasimanada. Felt in Kantō and Tōhoku districts.
		e ¹ PE	18 20.6								
		e ² SN?	21 07.5								
		F	40 —								
	Husan	e ¹	1 18 02.8						2	50.6	
		e ² S	20 53.4								
		F	47 22.1								
	Taikyū	P?	1 18 10.4								
		L	21 28.2								
		F	51 50.0								
	Keizyō	e ¹ PNE	1 18 25.6						2	59.4	
		e ² SNE	21 25.0								
F		40 —									
Heizyō	P?	1 18 53.6									
	L	22 41.6									
	F	34 —									
46	Feb. 27 Husan	P	14 42 43.0						32.4	Tōkyō ; 33.°7N, 132.°1E. (r)Off Murotu, Ya- maguti Prefecture. Felt in Tyūgoku, Sikoku, Kyūsyū, Kinki and Tyūbu districts.	
		SN	43 15.4				N 4.8	E -7.5			
		M	43 31.8	- 63	- 77		E 5.3				
		?	52 04.7								
		F	15 03 29.4								
	Taikyū	i ¹ P	14 42 55.8								53.3
		S	43 49.1								
		MN	43 51.3	+ 61			3.6				
		ME	43 51.3		+ 51		4.0				
		F	15 05 33.5								
	Syūhūrei	P	14 43 00.5						34.1		
		S	43 34.6								
F		52 —									
Keizyō	e ¹ NE	14 43 23.3						59.4			
	e ² SNE	44 22.7									
	F	59 —									
Zinsen	i ¹ E	14 43 27.7					N +	1	06.5		
	i ¹ Z	43 28.0					E —				
	i ¹ N	43 28.2					Z +				

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks	
						AN	AE	Az			u	s		
50	Husan	e	17	47	30.7	u	μ	ρ	s	μ	u	s	Manila ; Felt in northern Luzon and slightly in Manila. Manila ip 15 ^b 46 ^m 40 ^s . Tōkyō ; West of Bashi Channel.	
		F	47	57.0										
	Mar. 16 Husan	P	15	50	02.6						1	24.6		
		eS	51	27.2										
		F	16	07	07.1									
	Taikyū	P	15	50	08.7						3	22.0		
		S	53	30.7										
		F	16	03	—									
	Zinsen	iP _N	15	50	15.9					N -3.4	3	44.8		
		eS _N	54	34.7										
		F	16	06	—									
	Keizyō	iP _{NE}	15	50	13.5					N -1.6	3	42.2		
eS _{NE}		54	07.7						E -1.3					
F		16	04	—										
51	Mar. 21 Zinsen	eL _N	16	26	56.								Distant.	
		F	38	—										
52	Mar. 21 Husan	eL?	13	32	12.2								Tōkyō ; 40.°2N, 142.°2E. (r)35km east off Kuzi, Iwate prefecture. Felt in Tōhoku, Hokkaidō and Kantō districts.	
		eL	37	22.7										
		F	47	33.7										
	Taikyū	P	13	32	12.5									
		F	70	—										
	Keizyō	eP _{NE}	13	32	20.5						2	26.6		
		eS _{NE}	34	47.1										
		eL _{NE}	36	11.7										
		F	44	—										
	Zinsen	eL _N	13	34	47.									
		iN	35	08.		Incidence of short period wave.								
		F	45	—										
53	Mar. 22 Keizyō	eP _{NE}	13	01	22.0						1	58.2	South off Yakuzima, Kagosima Prefecture.	
		eS _{NE}	03	20.2										
		F	03	—										
	Husan	e	10	01	51.1									
		F	13	21.3										
54	Mar. 22 Husan	eP	17	00	25.8						54.0	Hyūganada, Miyaza-		

4. The Seismic Reports of Stations in Työsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks			
				AN	AE	Az							
55	Mar. 22 Taikyū	eS	17 01 29.8						ki Prefecture.				
		F	07 29.8										
		ePNE	17 02 06.1										
		F	08 —										
56	Mar. 20 Zinsen	P	16 19 57.7					Local.					
		F	20 12.0										
57	Apr. 3 Husan	eP	11 23 45.0					4 38.9	Tōkyō ; 23.°3N, 121.°0E, S. E. foot of Mt. Ari, Formosa. Felt in Formosa.				
		S	28 23.9										
		F	57 30.0										
58	Apr. 3 Husan	eP	11 23 46.2					4 41.5					
		S	28 27.8										
		F	12 10 06.9										
		ePNE	11 24 05.2							4 24.5			
		eSE	28 29.7										
		F	47 —										
58	Apr. 3 Husan	ePNE	11 24 07.2					2 55.6					
		eSNE	27 02.8										
		eINE	28 39.6										
		F	58 —										
58	Apr. 3 Husan	eP	21 15 24.1					3 57.3	Manila ; Felt in western Lu- zon Manila iP 21h 11m 06s.				
		eS	19 21.4										
		F	30 28.0										
		eP	21 15 26.2							4 40.0			
		eS	19 30.2										
		F	25 41.2										
		58	Apr. 3 Zinsen	iP	21 15 40.7							N — 4 39.0	
				eSN	19 49.7								
				eSE	19 49.9								
				F	32 —								
		58	Apr. 3 Keizyō	ePNE	21 15 42.4							4 09.2	
				eSNE	19 51.6								
F	27 —												

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						A _N	A _E	A _Z					
			h	m	s	u	u	u	s	u	s		
64	Apr. 26 Heizyō	M _N	2	22	42.9	-	22		5.8				
		M _E		22	52.3			65	6.2				
		F	4	58	—								
		eP	2	13	09.9						9	22.0	
		S		22	43.9								
		F	4	02	—								
65	Apr. 29 Keizyō	eP _E	7	16	22.3							Southern part of Sintikusyū, Formosa.	
		F		22	—								
	Apr. 29 Heizyō	eP	16	01	23.2							U. G. E. G. I ; 57°N, 157°W. H=18h 52m 43s Alaska. U. S. C. G. S ; 52°N, 157°W Tōkyō ; Aleutian. J. S. A ; 53.73N, 160.75W. H=18h 52m 43s Depth=40km.	
		F		25	—								
		eP _{NE}	19	01	30.9						7		09.0
		eS _E		08	39.9								
		eE		11	15.9								
		eF _E		17	15.9								
	Zinsen	F		46	—								
		iP _{NE}	19	01	32.0					N -1.0	7	12.2	
iP _Z			01	32.4					E -0.9				
eS _N			08	44.2					Z +1.5				
eI _N			15	14.									
Husan	F	20	00	—									
	P	19	01	25.5									
	S		08	49.9									
Taikyū	F		56	28.7									
	eP	19	01	27.3									
Apr. 29 Heizyō	F		12	24.8									
	iP _{NE}	20	21	27.2					N —	1	58.5	Tōkyō ; 45.97N, 137.73E. (r) Maritim Province. (North of Japan Sea) Depth=370km. Felt in Hokkaidō and Tōhoku districts.	
iS _{NE}		23	25.8					E —					
F		49	—										
Keizyō	iP _{NE}	20	21	31.5					N -6	2	04.4		
	iS _{NE}		23	35.9					E -6				
	M _E		23	27.4			- 23	5.8					
	F		44	—									
Zinsen	iP _Z	20	21	33.3					N -5.3	2	06.5		
	iP _{NE}		21	33.7					E -4.6				
	iP _N		21	56.4	+ 5.0				Z +5.9				
	iP _E		21	56.6			+ 6.5						
	iP _Z		21	58.3							- 4.7		
	iS _{NE}		23	39.8									

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks
				A _N	A _E	A _Z				
			h m s	μ	μ	μ	s	m s		
70	May 7 Zinsen	eLN F	13 15 — 24 —						FNE off Miyako.	
71	May 9 Taikyū	eL? eL F	14 50 44.1 55 42.1 15 54 —						Vicinity of Etorō Isl.	
	Keizyō	e'NE eSNE eNE ME MN F	14 50 57.5 54 33.7 56 59.9 59 14.4 59 21.9 16 02 —	± 19	± 43		16.4 18.4	3 36.2		
	Husan	eP eS eL F	14 51 01.0 54 52.0 57 05.4 16 00 47.5					2 51.0		
	Zinsen	e'P e'Z eSN eLN F	14 51 01.8 51 01.3 54 52.4 56 27.4 15 28 —					3 50.6		
	Heizyō	e'NE S F	14 51 01.4 55 52.4 15 10 —					4 51.0		
72	May 12 Zinsen	iPN e'PN eSN F	2 53 01.3 54 47.5 58 31.4 3 03 —					N + 5 30.1	Chiufeng ; 3°S, 142.°5E. New Guinea.	
	Keizyō	e'NE eSNE F	2 53 01.8 59 27.0 3 13 —					6 25.2		
	Husan	e F	2 55 58.0 3 15 33.4							
73	May 12 Zinsen	eN F	13 32 — 54 —						Distant.	
74	May 20 Keizyō	e'NE eNE	12 17 52.7 22 25.7						Distant.	

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks		
						AN	AE	Az							
			h	m	s	μ	μ	μ	s	p	m	s			
75	May 21 Keizyō	F	12	31	—								S E off Katuura, Tiba Prefecture.		
		ePNE	2	00	43.9										
		eLNE		04	54.6										
	F		20	—											
	Zinsen	ePE	2	00	50.0										
		eLE		05	00.0										
F			12	—											
Husan	eL	2	04	01.2											
	F		20	19.0											
76	May 22 Keizyō	eE	0	19	20.							?			
		F		29	—										
77	May 24 Taikyū	e?	13	32	45.2							?			
		F		38	—										
78	May 27 Keizyō	ePE	4	38	13.1						2	44.6	ENE off Hatizyō Isl.		
		eSE		40	57.7										
		eLNE		43	04.3										
		F		57	—										
	Taikyū	eL?	4	41	46.4										
		F		56	12.4										
	Husan	L	4	42	03.2										
		F	5	01	55.9										
	79	May 28 Husan	eP	19	59	26.3						2		36.5	Tōkyō; 24.°N, 142.°E. Depth=450km. (r)SSE off Titizima. Abnormally felt at Titizima, Tōkyō; Katuura, Utsunomiya, etc.
			S	20	02	02.8									
ME				02	13.9		+	32		4.2					
F				20	54.0										
Taikyū		P	19	59	32.0						2	45.9			
		S	20	02	17.9										
		F		26	13.9										
Keizyō		iPNE	19	59	51.8						N +2	3	04.2		
		iSNE	20	02	56.0						E -2				
		ME		02	57.2		+	19		6.4					
		MN		02	57.5	-	13		4.2						
		F		21	—										
Zinsen	iPz	19	59	52.6					N +1.4	3	06.2				

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks	
						A _N	A _E	A _Z			μ	μ		μ
83	Jun. 12 Taikyū	iS _{NE}	16	59	23.6									
		M _E		59	25.0		—	13		4.4				
		M _N		59	33.6	—	12			4.6				
		F	17	05	—									
		P?	16	59	59.3							18.7?		
		S	17	00	18.0									
		L		00	37.9									
	F		03	27.6										
	Husan	eS	17	00	33.2									
		eL		01	01.9									
		F		03	28.6									
	Zinsen	eL'NE?	18	11	05.0							2 24.5?	WSW off Titizima. Deep.	
		eSNE?		13	29.5									
		F		20	—									
	Husan	eL'	18	11	07.6							2 24.5		
eS			13	32.1										
F			23	25.6										
Keizyō	eNE	18	14	24.										
	F		21	—										
84	Jun. 13 Husan	eL'	4	35	29.4							41.6	Hyūganada.	
		eS		36	11.0									
		F		41	25.0									
	Taikyū	eL'	4	35	43.6								55.3	
		eS		36	38.9									
		F		42	22.5									
	Zinsen	eL'N?	4	36	14.2								1 32.4?	
		eSN?		37	46.6									
		F		40	—									
	85	Jun. 21 Taikyū	L'	15	32	18.5								J. S. A. : 6.°8S, 79.°9W. H=15 ^h 13 ^m 17 ^s Depth=50km. Felt along the western coast of Peru. Some damages to coastal cities particularly Trujillo, 500km north west of Lima. Also felt in Lima. U. G. E. G. I. ; 7.°0S, 78.6W. H=15 ^h 13 ^m 04 ^s
			e		36	11.1								
			L	16	20	20.2								
F			17	43	—									
Husan		L'	15	32	31.6									
		e		35	29.6									
		e		44	54.2									
		F	17	37	35.4									
Zinsen		eL'NE	15	22	32.5									

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S		Remarks	
				AN	AE	Az			m	s		
86	Jun. 23 Keizyō	eP'z	15 32 33.9									
		eN	35 52.1									
		L	54 —									
		MN ₁	16 42 —									
		MN ₂	17 12 —									
		F	38 —									
	Husan	eNE	16 19 32.									
		eNE	17 07 30.									
		F	23 —									
		eP'	2 09 13.0						52.6		Mt. Osuzu, south of Miyazaki Prefecture.	
Zinsen	S	10 05.6										
	F	19 01.3										
87	Jun. 23 Husan	P	— — —									
		eSEN?	2 11 33.1									
	Taikyū	F	14 —									
		eP'	20 42 44.5						1 03.0		Tōkyō ; 31.°6N, 131.°6E. Mt. Osuzu, south of Miyazaki Prefecture. Felt in Kyūsyū.	
		S	43 52.5		10		3.2					
		ME	43 56.9									
	F	55 16.2										
	Keizyō	eP'	20 43 01.1						1 17.0			
		S	44 18.1									
		F	57 —									
Zinsen	eP'NE	20 43 25.0						2 00.4				
	eSNE	45 25.4										
	F	55 —										
	eP'z	20 43 32.3						2 02.2				
	eP'NE	43 33.5										
Jun. 28 Keizyō	iSNE	45 34.6										
	iSZ	45 38.4										
	ME	45 41.5		± 5		4.3						
	F	54 —										
88	Jun. 28 Keizyō	eLNE	5 24 11.3									
		F	28 —								Taihoku ; 25.°4N, 119.°7E. Felt at Amoy, China.	
89	Jul. 1 Husan	P	11 57 54.4									
		L	12 14 18.1									
		F	41 26.0									
	Zinsen	iP'NE	11 57 56.6						N +	6 26.1?		U. G. E. G. I ; 5°N, 95°E. North west of Sumatra.

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks	
				AN	AE	AZ					
90	Keizyō	eS _{NE} ?	h m s 12 04 22.7	μ	μ	μ	s	E +	m s	Distant.	
		eL _{NE}	14 27.1								
		F	49 —								
	Husan	eI _{NE}	12 15 22.								
		F	28 —								
		P	2 47 24.3						8 11.0		
	Zinsen	S	55 35.3								
		F	3 37 24.6								
		iP _{NE}	2 47 43.8					N +	8 31.8		
		eS _{NE}	56 15.6					E —			
F		3 33 —									
91	Jul. 3 Husan	e	13 53 12.0							Vicinity of Aburatu, Miyazaki Prefecture.	
		F	56 37.9								
92	Jul. 3 Husan	e	15 26 44.5							Tōkyō ; 36.°38'N, 138.°03'E. Yakeyama, Niigata Prefecture.	
		F	37 38.9								
93	Jul. 4 Taikyū	eP	6 04 15.0						4 16.7	U. S. C. G. S ; 13°S, 163°E. West of New Hebrides Isl.	
		eS	08 31.7								
		i	19 32.2								
		F	Lost in next quake.								
	Zinsen	eP _N ?	6 04 32.2						7 39.7?		
		eS _N ?	12 01.9								
		F	Lost in next quake.								
	Husan	eP	6 05 14.4								
		L	19 11.8								
		F	Lost in next quake.								
Keizyō	eP _{NE}	6 06 42.									
	eL _{NE}	19 56.									
	F	44 —									
94	Jul. 4 Taikyū	eP	6 43 13.2						4 12.8	After shock of No. 93	
		eS	52 26.0								
		i	7 02 49.0								
		F	8 18 —								
	Husan	eP	6 48 58.7								
		L	7 02 54.3								
		F	28 45.1								

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks	
				AN	AE	Az					
95	Keizyō	ePNE	h m s 6 49 00.	μ	μ	μ	s	μ	m s		
		eLNE	7 03 55.								
		F	15 —								
	Zinsen	ePN	6 49 01.2	Lost in next quake.							8 05.8
		eSN	57 07.0								
		eLN	7 04 23.7								
		F									
	Jul. 4 Zinsen	ePN	7 36 18.1								8 03.2
		eSN	44 21.3								
		eLN	51 27.8								
		F	8 27 —								
	Husan	eS	7 43 48.8								
F		8 27 45.4									
Keizyō	eS	7 44 26.									
	F	8 35 —									
96	Jul. 9 Husan	iPEN	4 09 00.5				0.4	N -2.3	29.9	Tōkyō : 32.°75'N, 130.°05'E. Tziliwa Bay, Naga- saki Prefecture. Felt in Kyūsyū.	
		S	09 30.4								
		F	18 40.3								
	Taikyū	eP	4 09 05.9								48.1
		iS	09 54.0								
		F	16 30.9								
	Keizyō	ePNE	4 09 27.8								1 04.2
		eSNE	10 32.0								
		eLNE	10 57.3								
		F	15 —								
	Zinsen	eN	4 10 12.3								
		eSE	10 58.8								
F		15 —									
97	Jul. 11 Husan	P	13 42 08.2							ESE off Hatizyō Isl.	
		L	45 26.4								
		F	14 17 00.3								
	Taikyū	iP	13 42 24.2								3 42.0
		eS	46 06.2								
		F	14 02 48.0								
	Zinsen	ePE	13 42 40.5								
		eLE	46 51.6								
		F	14 10 —								

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks	
						AN	AE	Az						
			h	m	s	μ	μ	μ	s	μ	m	s		
98	Heizyō	iPE	13	42	59.3						3	22.5	Distant.	
		S		46	21.8									
		L		47	45.8									
		M		49	05.8									
		F	14	12	—									
	Jul. 12	Husan	eI'	0	17	07.8								
99	Zinsen	eLE	0	24	22.?								ENE off Hatizyō Isl.	
		F		35	—									
		Jul. 14	Husan	eI'	22	28	40.8					2		
	S		30	53.6										
	L		34	08.5										
	F	23	05	38.8										
Taikyū	eI'	22	30	57.1							2	43.1		
	eS		33	40.2										
	L?		34	47.0										
	F	23	10	44.0										
	Keizyō	ePNE	22	31	24.6							3		
Zinsen	eSNE		34	53.4										
	MN		36	49.7	—	25			14.0					
	ME		36	49.7			—	105	18.0					
	F		54	—										
	eI'E	22	31	25.6										
Heizyō	eLE		35	06.3										
	ME		37	09.5			±	13	14.1					
	F	23	10	—										
	eI'P	22	31	43.6										
100	Jul. 16	L		36	12.6								E off Hatizyō Isl.	
		F		58	—									
		Taikyū	eP?	10	20	56.3						4		
	eS		25	12.3										
	F		44	31.3										
	Husan	I'P?	10	21	05.6									
Keizyō	L		25	17.1										
	F		50	55.9										
	eI'NE	10	21	36.3										
eI'NE		25	58.5											

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks	
						A _N	A _E	A _Z						
			h	m	s	μ	μ	μ	s	μ	m	s		
101	Zinsen	P	10	30	—								E off Miyakezima.	
		eI _N F	10	25	53.6									
	Husan	e	18	43	16.5									
		F		59	13.2									
	Taikyū	eP	18	47	23.9									
		F		57	46.0									
102	Jul. 19 Husan	e	3	03	58.3								Distant.	
		F		25	28.4									
103	Jul. 19 Husan	e	19	57	47.0								J. S. A ; 1.°5N, 77.°5W. H=19h 35m 50s Depth=175km.	
		F		20	14	36.6								
104	Jul. 21 Keizyō	eI _{NE}	0	10	53.4						2	39.0	Tōkyō ; 46°N, 145°E. (r)E off the Cape of Nakasiretoko, Sakhalin. Felt in Hokkaidō and Tōhoku districts.	
		eS _{NE}		13	32.4									
		F		17	—									
	Taikyū	P?	0	10	56.6							2		42.3?
		iS		13	39.4									
		F		19	50.0									
Husan	eP	0	10	58.9							2	47.6		
	eS		13	46.5										
	F		20	51.0										
105	Jul. 22 Taikyū	eP	17	18	46.3						8	10.2	U. S. C. G. S ; 64.°5N, 145.°8W. H=17h 09m 5	
		S		26	56.5									
		L		31	52.0									
		F		19	02	40.5								
	Heizyō	eI'	17	19	07.3							7	21.0	J. S. A ; 64.°5N, 145.°1W. H=17h 09m 36s Depth=Normal. Felt over a large area of Central Alaska U. G. E. G. I ; 64.°9N, 146.°5W. H=17h 09m 24s
		S		26	28.3									
		L		34	37.3									
		ME		40	40.3		+	56		14.5				
	Husan	F		18	30	—								
		P	17	19	20.5							7	43.2	
		S		27	03.7									
		eL		31	06.6									
Zinsen	F		19	11	12.6									
	eP _N	17	19	35.3							7	13.1		

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks				
						A _N	A _E	A _Z			μ	σ					
106	Jul. 26 Husan	e _{SN}	b	m	s	— 111			14.4			I. S. A ; 18.°6N, 95.°8W. H=3h 47m 11s Depth=75km. Damage at cities along the Gulf coast of Mexico.					
		e _{LN}															
		M _N															
		F	19	20	—												
		P	4	06	22.1												
		F		24	03.9												
107	Jul. 26 Husan	i _{PE}	19	59	12.1	— 338			2.3	E -6	2 06.9	Tōkyō ; 38.°23N, 141.°97E. (r)E off Kinkazan. Felt over Tōhoku, Kantō, Tōyū and Hokkaidō districts. Some damage at the City of Isinomaki.					
		S	20	01	19.0												
		M _E		03	29.7												
		F		41	06.3												
	Taikyū	i _P	19	59	12.8	— 41				N -4.4 E -6.5	2 00.9						
		i _{SN}	20	01	13.7												
		i _{SE}		01	13.7												
		I?		02	27.9												
	Zinsen	F		59	23.5												
		e _{Pz}	19	59	25.1						2 20.3						
		i _{Sz}	20	01	45.4												
		M _Z		04	00.5			+ 144	12.3								
Heizyō	F		29	—													
	i _{PNE}	19	59	43.2						2 15.0							
	S	20	01	58.2													
108	Jul. 31 Husan	F		27	—												
		e	10	51	59.2							S E off Heizyō I-1.					
		L		55	18.3												
	F	11	17	23.9													
	Taikyū	e _P	10	52	07.3												
		i		55	59.3												
F		11	12	—													
109	Jul. 31 Heizyō	i _{PNE}	20	38	04.0					N -? E —	1 45.0	Chakhar, East inner Mongolia, U. G. E. G. I ; Felt at Hsou Tche- ou, North of Kiang Si, China.					
		e _{SNE}		39	49.0												
		L		40	28.0												
		M _N		41	10.0												
		M _E		42	16.0												
		F	21	22	—												
	Zinsen	i _{Pz}	20	38	06.4					Z +	1 34.2						
		i _{PPz}		38	41.4												
		i _{Sz}		39	40.6												
		iz		40	10.4												

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks
						A _N	A _E	A _Z			in	s	
110	Jul. 31	M _Z	20	41	57.6	μ	μ	+ 221	4.3	μ			
		F	21	17	—								
		Taikyū	P	20	38	25.2						2	15.7
			S		40	40.9							
		L		41	29.9								
		M _N		12	00.2	+ 135			4.4				
		M _E		42	53.3		- 243		7.3				
		F	21	44	—								
		Syūhūrei	P	20	38	25.9						2	00.0
			S		40	25.9							
	M _E			40	56.4		± 225		3.8				
	F		21	08	56.4								
	Husan	eP	20	38	23.4						2	04.0	
		S		40	33.4								
		M _N		41	53.9	- 163			5.6				
		M _E		42	21.2		± 36		3.3				
		F	22	03	27.6								
	110	Keizyō	eP _E	22	58	47.3						49.8	Ditto
			eS _E		59	37.1							
			F	23	03	—							
Zinsen		eZ	22	53	56.4								
		eS _Z		59	24.0								
		F	23	03	—								
Husan		eP	23	00	13.7						2	17.3	
		eS		02	31.0								
		F		17	23.0								
Taikyū		P	23	00	14.3								
	F		06	—									
111	Aug. 1	Heizyō	eP	10	43	20.3					2	03.0	Ditto about 42°N, 114°E.
			eS		45	23.3							
			L		46	03.3							
			M _N _E		46	29.3							
			F	11	29	—							
	Taikyū	eP	10	43	42.6						2	26.0	
		eS		46	08.6								
		M _N		47	33.3	+ 139			2.6				
		M _E		48	16.0		- 104		3.6				
		F	11	35	13.0								
Husan	P	10	43	42.3						2	33.0		

4 The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks		
				AN	AE	Az						
			^h	^m	^s	μ	μ	μ	^m	^s		
114	Aug. 7 Husan	ePE	14	52	22.2				2	21.0	Hyūganada.	
		eSE		55	02.2							
		F	15	12	—							
115	Aug. 8 Husan	e	20	43	46.0				3	19.0	Tōkyō ; Marianne Isl.	
		F	21	00	12.1							
		eP	10	17	21.6							
116	Aug. 9 Husan	eS		20	40.6				2	55.9	Vicinity of Titizima.	
		F		49	14.5							
		eP	12	40	25.2							
	Taikyū	eS		43	31.1				2	56.7		
		F	12	10	19.2							
		P	12	40	49.5							
	Keizyō	S		42	46.2				3	06.4		
		F	12	04	25.3							
		ePE	12	41	15.1							
	Zinsen	eSE		44	21.5				N	+	3	11.2
		F		51	—							
		ePE	12	41	15.7							
117	Aug. 9 Husan	eSE		44	26.9				F	—		
		eINE		46	23.4							
		F		59	—							
	Taikyū	P	14	42	42.3				3	02.6	Ditto.	
		eS		45	45.9							
		F	15	22	19.9							
	Keizyō	P	14	42	48.5				2	59.0		
		S		45	47.5							
		F	15	15	25.2							
	Zinsen	P	14	43	13.7				3	04.2		
		eSE		46	17.9							
		F	15	09	—							
118	Aug. 9 Husan	ePE	14	43	13.7				N	+	3	13.1
		eSE		46	23.0							
		eIN		48	12.1							
		F	15	16	—				E	—		
		e	16	42	05.7							
		F	17	02	20.1						Ditto.	

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No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						AN	AE	Az					
			h	m	s	z	p	q	S	P	m	s	
119	Aug. 9 Husan	eP	13	21	53.1						3	14.0	Ditto.
		eS		25	13.1								
		F		42	20.7								
120	Aug. 11 Taikyū	eP	1	01	52.1						6	50.3	Batavia ; 6.°58', 116.°51'E. Depth=650km Felt Java to Roti.
		eS		07	42.4								
		F		42	20.0								
	Husan	P	1	03	07.3						4	34.3	
		S		07	42.1								
		F	2	17	29.1								
	Keizyō	ePE	1	03	18.3						6	00.3	
		eSE		09	19.1								
		eLE		12	34.5								
		F		36	—								
	Zinsen	ePNE	1	03	22.5	in time mark.					5	56.0	
		iSEN		09	18.5								
ME			09	26.7		+ 43		7.5					
MN			09	26.7	+ 57			7.5					
F			42	—									
Heizyō	eP	1	03	28.5						6	04.5		
	eS		09	32.0									
	F		44	—									
121	Aug. 16 Husan	e	16	41	03.7							Tōkyō ; 35.°23'N, 135.°51'E. (m) Takasimagun, Siga Prefecture. Felt in Kinki Tyūbu and Tyūgoku districts.	
		F		51	03.3								
122	Aug. 17 Husan	eP	13	12	41.6							ESE off Hatizyō Isl.	
		L		16	20.6								
		F		43	09.5								
	Taikyū	eP	12	12	54.3						2		43.7
		eS		15	33.0								
		F		32	14.2								
123	Aug. 19 Husan	eP	20	33	14.8						47.5	Ariake B.y. Kagosi- ma Prefecture.	
		S		34	02.3								
		F		39	24.2								
	Zinsen	eNE	20	35	34.1	Short pe iod wave.							
		F		37	20.								

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No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks
						AN	AE	Az			m	s	
			h	m	s	μ	μ	μ	s	μ	m	s	
124	Aug. 20 Husan	P	12	04	14.3						4	01.2	Manila ; 14°10'N, 122°05'E. H=11h 59m 12s Felt throughout southern and southeastern Luzon and northwestern Visayan Isl. Intensity IX in Epicentral area, VII in Manila. Considerable damage in Manila.
		S		03	11.1								
		M _N		10	50.8	-	1214		13.5				
		F		15	15	34.0							
	Taikyū	P	12	04	15.5					N +13	4	11.4	
		i _E		04	24.8				4.3	E +9			
		S _N		03	28.9	+	221		9.3				
		S _E		03	28.3			+ 203	9.6				
		i _E		13	53.7				19.4				
		I.		22	56.2								
		F		13	57	—							
	Syūhūrei	P	12	04	13.3						4	05.7	
		S		08	24.0								
		F		12	09	42.1							
	Zinsen	iP _N	12	04	26.1				3.4	N +14.2	4	13.9	
		eP _E		04	23.1					E +?			
		M _N		04	28.2	-	74		5.5				
		iS _N		03	40.0	-	579		14.5				
		M _N		03	49.7	+	442		9.8				
		M _{E1}		08	53.2			- 147	8.1				
M _{E2}			14	34.0			- 503	12.6					
M _N			16	00.7	-	339		17.8					
F			14	20	—								
Keizyō	eP _E	12	04	29.1						4	11.4		
	eS _E		03	40.5									
	eL _E		11	45.7									
	M _E		16	50.8			- 470	13.6					
	F		13	44	—								
Heizyō	iP _{NE}	12	04	42.2					N +8.	4	27.0		
	iS _{NE}		09	19.3					E +1.4				
	M _N		16	51.3	+	74		15.					
	M _E		17	23.2			+ 104	12.					
	F		12	21	—								
125	Aug. 21 Husan	eP	23	04	43.5						2	59.7	SE. off Heizyō Isl.
		eS		07	43.2								
		F		26	36.9								
	Taikyū	eP	23	05	02.1						3	02.1	
		eS		08	04.2								
		F		21	28.4								
126	Aug. 24 Zinsen	iP'z	18	40	05.4					N +			Pasalena ;

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks	
				A _N	A _E	A _Z					
			h m s	μ	μ	μ	s	μ s			
127	Aug. 26	iP ^o N	13 49 06.3					E	—	H=13 ^h 27 ^m 48 ^s Tonga Islands.	
		iP ^o E	49 08.3				Z	—			
		F	53 —								
		Taikyū	eP	13 55 05.3						1 31.3	Tōkyō ; 21.°4N, 131.°5E. (m) Southern part of Hyōganada, Felt over Kyū-yū district.
			S	56 36.6							
			F	19 22 56.6							
		Husan	eP	13 55 07.9						1 19.1	
			S	56 23.0							
			F	19 24 02.3							
		Syūhūrei	P	13 55 41.3						1 37.9	
			S	57 19.7							
			F	13 03 00.1							
		Keizyō	eP ^{NE}	13 58 00.0						1 27.2	
			eS ^{NE}	57 37.2							
			eL ^E	53 01.0							
			eL ^N	53 02.2							
			M ^N	53 13.3	— 19			3.8			
			M ^E	53 22.0		+ 41		4.4			
			F	19 15 —							
		Zinsen	iP ^N	13 56 00.3					N	— 1 42.0	
			eS ^E	57 42.3							
			iL ^E	53 03.5							
			M ^E	53 16.4		— 50		5.6			
			M ^N	53 16.4	— 27			4.9			
			F	19 15 —							
		Heizyō	eP	13 56 29.1						2 25.0	
			eS	53 54.1							
F	19 15 —										
128	Aug. 29	Husan	eP	7 07 50.3					53.9	Ditto	
			S	08 49.2							
			F	19 12.7							
	Keizyō	eP ^{NE}	7 03 11.5						2 04.6		
		eS ^{NE}	10 16.1								
		F	15 —								
	Taikyū	eP	7 03 10.3								
		F	13 52.3								
	Zinsen	eE	7 10 02.7	Short period wave.							
		F	13 —								

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks	
						Ax	Ae	Az					
			h	m	s	μ	μ	μ	s	μ	m	s	
122	Aug. 23 Keizyō	eP _{NE}	13	07	59.7						2	04.2	Region of China.
		eS _{NE}		04	03.9								
		F		16	—								
	Zinsen	eP _{NE?}	13	02	23.1						1	11.8?	
		eS _{NE?}		03	49.3								
		F		09	—								
	Husan	eS	13	04	22.3								
		eL		05	15.3								
		F		17	14.6								
	Taikyū	eS	13	04	24.4								
		F		12	15.0								
	123	Aug. 31 Keizyō	eP	14	20	49.6						4	
S				25	46.6								
L				20	07.6								
M _{NE}				31	06.1	—	30	—	48	12.			
F				13	05	—							
Zinsen		eP _E	14	20	55.3						5	04.8	
		eS _E		28	03.6								
		eL _E		29	56.6								
		M _N		30	54.3	+	162			14.1			
		M _E		32	20.1			+	53	9.7			
		F		15	07	—							
Keizyō		eP _{NE}	14	21	00.3						5	51.4	
		eS _{NE}		26	51.7								
		eL _{NE}		29	53.1								
		F		55	—								
Taikyū		P	14	21	07.3						4	50.4	
		S		25	52.2								
		F		15	02	17.2							
Husan	eP	14	21	10.0									
	eL		31	05.0									
	F		15	04	22.3								
Syūhūrei	eS	14	25	46.1									
	eL		30	26.9									
	F		41	26.5									
121	Sept. 1 Husan	e	17	51	21.0							Instant	
		e		53	22.4								
		F		13	06	26.9							

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks		
						AN	AE	Az						
			h	m	s	μ	μ	μ	s	μ	m	s		
122	Sept. 3 Keizyō	P	18	55	47.2						ε 00.0?	J. S. A ; 52.°5N, 177.°5W. H=18 ^h 43 ^m 29 ^s Depth==160-180km. U. S. C. G. S ; 52.°5N, 177.°5W. H=18 ^h 43. ^m 2. Depth=160km, Aleutian Isl.		
		S?	19	01	47.2									
		F	23	—										
	Keizyō	ePNE	13	55	50.3						ε 03.6			
		eSNE	19	01	53.9									
		F	19	—										
	Zinsen	iPz	13	55	50.7					N -1.0	ε 04.0			
		iPE	55	52.0						E -2.0				
		iPN	55	52.3						Z +1.1				
		ipl'z	56	10.3				- 20.1	2.6					
		ipl'N	56	11.2	+ 2.7				3.2					
		ipl'E	56	11.3		+ 12.0			3.2					
		ie	57	51.2		- 3.0			3.3					
		iSE	13	01	54.7									
		iSN	01	55.5										
		ME	02	12.4		+ 23			4.2					
	Zinsen	MN	03	00.5	+ 42				7.0					
		F	20	12	—									
	Taikyū	eP	18	55	52.4						6 07.0			
		eS	19	01	59.6									
		F	20	12	34.6									
	Syūhūrei	P	18	55	54.1						6 02.6			
		S	19	01	56.7									
F		10	—											
Husan	eI'?	18	56	12.5						6 12.4?				
	eS	19	02	12.4										
	F	15	35.2											
123	Sept. 4 Husan	e	6	28	00.7						Distant.			
		F	7	00	37.1									
124	Sept. 8 Zinsen (Intensity) I	iPENZ	13	39	47.3						2.3	Lower reaches of the river of Kankō. Felt at Zinsen.		
		iSNE	39	50.1										
		F	40	25.										
		Keizyō	ePNE	13	39	47.3								2.3
			iSNE	39	49.6									
Keizyō	MN	39	50.2	- 10				0.2						
	ME	39	50.3		+ 10			0.2						
	F	40	44.											
145	Sept. 8 Zinsen	iPEN	13	40	56.5					3.0	After shock of No.134			

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks
				A _N	A _E	A _Z				
			h m s	μ	μ	μ	s	μ	m s	
139	Sept. 21 Taikyū	eP	7 57 50.7						4 27.8	Batavia ; Felt in N. Celebes, Sangir Islands and Halmaheira.
		S	8 02 18.5							
		F	17 31.7							
	Heizyō	eS	8 01 04.5							
		F	14 —							
	Taikyū	P	9 46 20.9						5 23.0	
		S	51 53.9							
		F	10 19 31.9							
	Husan	eP	9 46 38.8						5 05.3	
		eS	51 44.1							
		F	10 53 04.9							
Zinsen	ePN	9 46 45.0						5 31.4		
	eSEN	52 16.4								
	F	10 13 —								
Keizyō	ePNE	9 46 47.1						5 34.6		
	eSNE	52 21.7								
	F	10 12 —								
140	Sept. 22 Husan	P	3 16 13.4						4 18.3	Manila ; 12.°03'N, 124.°03'E. Felt in Eastern Visayas.
		S	20 32.2							
		F	51 06.3							
	Zinsen	ePN?	3 16 18.8						4 46.9?	
		eSN	21 05.7							
		F	50 —							
	Taikyū	iP	3 16 21.2						4 20.2	
		iS	20 41.4							
		F	45 32.4							
	Syūhūrei	P	3 17 24.8						4 24.5	
		S	21 49.3							
		F	30 —							
Keizyō	ePNE	3 17 51.9						4 16.0		
	eSNE	22 07.9								
	F	46 —								
141	Sept. 23 Taikyū	P	13 14 33.3						7 11.7	J. S. A ; 6.°55', 153.°8'E. EI= 13°06'00" Depth normal. Region of Solomon Isl.
		i	14 53.9							
		S	21 45.0							
		F	14 40 20.2							

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P-S	Remarks	
				AN	AE	Az					
142	Husan	P	h m s 13 14 37.0	μ	μ	μ	s	μ	m s 6 55.5	U. S. C. G. S ; 6°S, 154°E. H=13°06'40.9" Manila ; 6°S, 154°E.	
		S	21 32.5								
		ME	21 49.9		- 75		6.8				
		F	15 22 07.7								
	Syūhūrei	P	13 14 40.0						7 05.0		
		S	21 45.0								
		F	50 —								
	Keizyō	ePNE	13 14 56.1						7 18.2		
		eSNE	22 14.3								
		eINE	29 10.3								
		F	15 20 —								
	Zinsen	iPz	13 14 56.2					N	-	7 16.9	
		iPN	14 57.0					E	+		
		iPE	14 57.5					Z	-		
		iSNE	22 13.1								
		iSz	22 14.3								
		MN	22 27.9	+ 33			4.7				
		ME	22 32.1		- 93		6.8				
		Mz	22 33.1			± 43	6.6				
	F	15 22 —									
	Heizyō	iPNE	13 15 12.1						7 27.0		
		iSNE	22 33.1								
		MNE	23 50.1								
		F	14 55 —								
	Sept. 27	Husan	P	9 3 44.1					6 49.4	Batavia ; Felt on Java, Bali, Lombok. U. G. E. G. I ; 7°S, 119°E.	
			S	10 33.5							
			F	59 11.9							
		Taikyū	P	9 03 52.0					6 50.2		
S	10 42.2										
Zinsen	F	10 02 36.2									
	iPN	9 03 55.4					N +2.0	6 52.5			
	iPz	02 55.7					E +				
	iPE	03 56.1					Z +4.1				
	iSN	10 47.9									
	eSz	10 52.7									
F	10 10 —										
Keizyō	ePNE	9 03 57.8						6 55.4			
	eSNE	10 53.2									
	F	53 —									
Heizyō	P	9 04 22.4						6 46.5			
	S	11 03.9									
	F	34 —									

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks
						A _N	A _E	A _Z			m	s	
		M _N	4	53	19.6	+ 51	μ	μ	5.7	μ	m s		
		F	5	18	—								
	Keizyō	i _P _E	4	49	50.5						2 57.6		
		e _S _{NE}		52	48.1								
		F	5	22	—								
	Zinsen	i _P _Z	4	49	53.7				4.6	Z +6.9	2 38.0		
		i _P _E		49	53.8				4.1	E -4.1			
		e _F _N		49	53.8								
		e _S _N		52	31.7								
		e _L _N		53	03.0								
		F	5	15	—								
	Heizyō	e _P _{NE}	4	50	05.7						3 00.0		
		e _S _N		53	05.7								
		F	5	14	—								
148	Oct. 20 Husan	e	1	47	34.9							Distant.	
		F	2	05	14.4								
149	Oct. 23 Husan	e	3	06	38.6							SE off Hatizyō Isl.	
		F		19	11.2								
150	Oct. 24 Keizyō	e _E	12	08	12.							Off Kuzyūkurihama, Tiba Prefecture.	
		F		14	—								
151	Oct. 25 Zinsen	i _P _{NE}	23	25	53.3						4 13.9?	Pasadena ; 43°N, 154°E. H=23 ^h 20 ^m 6	
		e _S _N ?		30	07.2							Tōkyō ; South off Kamchatka.	
		F		43	—								
	Husan	e	23	25	54.0								
		F		32	09.5								
152	Nov. 9 Keizyō	e _P _{NE}	1	18	13.7						3 59.9	Vicinity of Noziri, Miyazaki Prefecture.	
		e _S _{NE}		22	13.6								
		F		30	—								
	Heizyō	e _P _{NE}	1	23	17.2								
		F		30	—								
	Zinsen	e _S _E ?	1	21	15.2								
		F		25	—								
153	Nov. 10 Keizyō	e _P _{NE}	21	45	31.3						4 06.0	SE off the cape of	

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks	
						A _N	A _E	A _Z					
			h	m	s	μ	μ	μ	s	μ			
154	Nov. 14 Heizyō	eSNE	21	49	27.3							Sant'yōkaku, Formosa J. S. A.; 25.°2N, 72.°8E. H=10 ^b 58 ^m 05 ^s . Depth=250km. Destructive at Chitral, in Northwestern India in the immediate neighborhood of the above epicentre. Slight damage was said to have occurred as far south as Srinagar, Abbottabad, and other places in the province of Kashmir. Pasadena; 36.°5N, 70.°5E. H=10 ^b 58 ^m 12 ^s . Depth=220 km. Bombay; 27.°3N, 72.°0E. H=10 ^b 58 ^m 05 ^s . Depth=200km. U. G. E. G. I.; 36.°5N, 70.°5E. H=10 ^b 58 ^m 12 ^s . Depth=220km.	
		F		56	—								
		iPE	11	05	52.1						7 23.0?		
	SNE?		13	25.1									
	F		56	—									
	Zinsen	iPE	11	06	00.5						N -2.7		7 47.7?
		iPN		06	00.5				4.6		E +3.7		
		iPZ		06	01.6				4.6		Z 14.7		
		ipPZ		06	55.0			- 10.2	4.2				
		ipPE		06	55.9		+ 14.4		4.1				
		ipPN		06	55.9	to	S						
		iPPZ		07	44.9			to	D				
		iPPE		07	45.6			to	W				
		iPPE		09	12.3			+ 31.7		4.6			
		iPPZ		09	13.2				+ 29.4	4.6			
		iE		12	21.5			to	E				
		iSN		13	48.2								
		eSE		12	48.4								
		MN		13	53.9	+ 66				7.6			
	ME		14	05.0		- 31			9.5				
	Mz		14	12.2				+ 22	7.9				
	iSN?		15	22.7	+ 22				10.3				
	iSE?		15	22.8		+ 9			7.2				
	F		12	20	—								
	Keizyō	PNE	11	06	02.4								2 04.5
		SNE		09	06.9								
		MN		13	56.8	+ 65			8.0				
		ME		14	03.7		- 45		8.0				
		F		12	—	—							
	Taikyū	P	11	06	17.0						N -3		3 08.3
iP			07	13.2						E +6			
i			07	32.6									
S			09	25.8									
L			12	50.5									
MN			14	23.8	+ 33			8.1					
F			12	11	—								
Syūhūrei	P	11	06	07.6							8 02.5		
	S		14	10.1									
	F		41	57.2									
Husan	iPEN	11	06	22.0						N -3	2 55.9		
	eS		09	17.9						E +3			
	L		12	55.6									
	F		12	27	56.0								

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No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S		Remarks
						AN	AE	Az			m	s	
164	Nov. 30 Keizyō	eI.	1	05	30.3								
		F		29	16.4								
		ePNE	0	28	00.5						38.3	?	
		eSNE		28	33.8								
		F		30	10.0								
165	Nov. 30 Zin-en	eIN	13	45	10.0							U. G. E. G. I; 7.°5N, 45.°0E. Abyssinia, Bombay; 6.°5N, 37.°5E. H=12b57.m9	
		F		14	00	—							
		e	13	47	53.6								
		eI.		50	14.3								
		F		14	17	45.0							
		e	13	49	44.1								
		F		14	14	14.7							
166	Dec. 6 Husan	P	4	36	50.4						2	17.6	E.S E off the cape of Inubō, Tiba Prefecture.
		S		39	08.0								
		F		5	05	55.2							
		P	4	36	55.8						2	59.8	
		S		39	55.6								
		L		42	02.6								
		F		5	11	—							
		ePE	4	37	08.7						3	03.5	
		eSN		40	12.2								
		eIN		42	12.1								
		MN		43	21.5				14.5				
		F		5	10	—							
167	Dec. 8 Husan	P	8	35	26.9						2	35.9	Tōkyō; 22.°9N, 121.°5E. (r) NE off Daitō, Formosa, Felt over Formosa, Damage at Daitō and Kareukō.
		S		33	02.8								
		L		39	32.1								
		F		9	53	47.3							
		P	8	35	35.5						2	48.0	
		S		38	23.5								
		ME		42	16.7					13.4			
		MN		42	33.3					11.3			
		F		9	32	53.5							
		P	8	35	42.9						4	22.5	
		S		40	05.4								
		F		57	03.4								

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No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S	Remarks	
						A _N	A _E	A _Z					
			h	m	s	μ	μ	μ	s	μ	m	s	
	Zinsen	iP _Z	8	35	44.7							2	57.7
		iP _N		35	46.7								
		iS _N		38	42.4								
		eS _Z		38	43.9								
		iL _E		40	13.3								
		ME		42	15.0			- 123		10.7			
		MN ₁		42	30.5		± 119			10.7			
		MZ		42	31.5				- 234	13.4			
		MN ₂		45	35.7		± 111			10.9			
		F		9	48	—							
	Keizyō	P	8	35	43.0						3	06.4	
		S		38	54.4								
		L		40	26.4								
		M _N		42	33.4								
		F		9	10	—							
	Heizyō	iP _N	8	36	06.9					N	—	3	06.9
		iS _E		39	13.8								
		L		40	49.8								
		ME		21	22.3								
		M _N		43	15.0								
F		9	07	—									
168	Dec. 8 Husan	eP?	20	42	04.9								
		L		46	04.5								
		F		21	19	45.5						After shock of No. 167.	
	Zinsen	eP _N	20	42	19.7								
		eL _E		46	52.4								
		F		21	10	—							
	Taikyū	eS	20	44	53.7								
		eL		47	54.5								
		F		21	04	—							
	169	Dec. 10 Husan	P	13	31	27.6						2	53.4
S				34	21.0								
L				36	23.1							ESE off the cape of In ubō, Tiba Prefecture.	
F				14	11	39.7							
Taikyū		P	13	31	33.0							3	32.1
		S		35	05.1								
		F		14	01	16.9							
Zinsen		eP _E	13	31	57.2								
		eL _N		36	11.9								
		F		14	11	—							

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No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P-S	Remarks		
						AN	AE	Az						
170	Dec. 13 Keizyō	eP	h	m	s	μ	μ	μ	s	μ	m	s	Tokyo; 22.97N, 121.72E. (r) SE off Daitō, Formosa. Felt over Formosa.	
		eS	12	34	08.1						2	20.0		
		MN		38	55.1									
		F		45	—									
	Husan	P	18	57	21.5						2	41.2		
		S	19	00	02.3									
		I		01	34.1									
		F	20	12	28.9									
	Taikyū	eP	12	57	30.2						2	50.7		
		S	19	00	20.9									
		ME		04	12.1		+ 146		16.2					
		MN		04	22.9	+ 100			12.9					
		F		44	01.9									
	Zinsen	iP _N	18	57	37.5						N	3		02.1
		iP _E		57	37.5						E			
		iP _Z		57	37.5						Z			
		iS _N	19	00	29.6	+ 6.5			4.7					
		iS _E		00	40.7		- 10.5		7.0					
		iS _Z		00	41.8			to up						
		eL _{EN}		02	35.5									
M _{N1}			04	22.2	- 71			11.5						
M _Z			04	23.1			± 154	14.3						
ME ₁			04	23.9		- 43		9.2						
ME ₂			07	19.6		± 56		11.1						
MN ₂			07	40.5	+ 42			11.1						
F	20	10	—											
Keizyō	P	12	57	40.3						2	04.0			
	S	19	00	44.3										
	I		03	09.3										
	F		22	—										
Heizyō	eL _{NE}	18	57	59.2						2	09.0			
	iS _{NE}	19	01	03.2										
	I		02	02.2										
	ME		04	08.3										
	MN		05	08.3										
	F		24	—										
171	Dec. 14 Husan	P	7	17	37.3						48.2	Amakusanada, Kumamoto Prefecture.		
		eS		18	26.0									
		F		24	27.3									
Keizyō	eP	7	19	50.7										
	F		25	—										

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.			Amplitude			Period	First motion	Duration of P~S		Remarks
						Ax	Ay	Az			m	s	
			h	m	s	μ	μ	μ	s	μ	s		
172	Dec. 15 Syūhūrei	eP	10	03	29.3							Vicinity of Daitō ?	
		F		13	29.3								
173	Dec. 15 Syūhūrei	P	13	56	14.0							?	
		F	14	01	02.7								
174	Dec. 16 Husan	eP	18	33	59.7						3	Region of Philippine. Manila ; Felt at Virac.	
		eS		33	56.7								
		F		45	13.9								
	Zinsen	eP _N	18	30	19.5						4		
		eS _N		34	32.7								
		F		50	—								
175	Dec. 17 Husan	P	9	35	35.7						2	Tōkyō ; 22.°5N, 121.°4E. (m) EN off Daitō, Formosa, Felt over Formosa.	
		eS		38	25.5								
		eL		39	41.5								
		F	10	14	18.0								
	Taikyū	eP	9	35	42.3						2		
		S		38	24.6								
		L		40	12.2								
		ME		42	16.9				13.6				
		M _N		42	45.3	- 32				12.4			
		F	10	18	02.0								
	Zinsen	iP _{NE}	9	35	52.6						3		
		eS _{EN}		38	52.6								
		eL _E		40	06.0								
		ME		41	06.4					9.8			
		F	10	17	—								
Keizyō	P	9	35	55.3						3			
	eS		38	57.3									
	L		40	41.3									
	M _N		42	37.3									
	F	10	00	—									
Heizyō	eP _{NE}	9	36	13.4						3			
	eS _E		39	20.9									
	L		40	59.9									
	M		41	50.9									
	M		43	14.9									
	F	10	03	—									
176	Dec. 23 Husan	P	13	37	50.1						9	25.7	U. G. E. G. I ;

4. The Seismic Reports of Stations in Tyōsen in the Year 1937.

No.	Date and Station	Phase	G. M. T.	Amplitude			Period	First motion	Duration of P~S	Remarks
				A _N	A _E	A _Z				
177	Dec. 25 Keizyō	S	h m s 13 46 55.8				s			17.°5N, 97.°5W. H=12 ^h 17 ^m 56 ^s Destructive in Mexico. U. S. C. G. S.; 15.°5N, 93.°5W. H=13 ^h 17 ^m 56 ^s J. S. A.; 16.°6N, 93.°0W. H=12 ^h 17 ^m 56 ^s Depth=normal
		eL	14 12 03.9							
		F	15 40 56.5							
		eP?	13 44 03.8							
		S	46 55.0							
		i	14 13 59.2							
		F	58 33.5							
		eP	1 18 10.1							
		F	22 —							
		178	Dec. 25 Zinsen							
eS _{NE}	06 38.1									
M _E	06 48.5									
M _N	07 29.2									
F	19 —									
eP	10 05 32.4									
eS	08 11.7									
F	23 50.2									
eP _{NE}	10 05 34.1									
F	15 —									
179	Dec. 25 Husan	eP	10 06 59.5							Tōkyō; 32.°9N, 132.°2E. (m) Southern part of Būngō Strait. Felt in Kyūsyū and Sikoku districts.
		iS	08 18.4							
		F	17 44.1							
		P	12 53 08.5							
		S	53 41.0							
		M _N	54 13.9							
		M _E	54 13.9							
		F	14 02 49.7							
		P	13 53 11.3							
		S	54 36.6							
F	14 05 43.3									
Zinsen	e _N	12 54 48.7								
	eS _N	55 39.7								
	F	14 03 —								
Keizyō	eP	13 55 00.2								41.5
	S	55 41.7								
	F	14 00 —								
Heizyō	eP _{NE}	13 56 09.7								
	F	14 02 —								

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印刷者 吉村 守雄

京城府蓬萊町三丁目六二・三番地

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