朝鮮總督府觀測所

地震年報

昭和拾壹年

The Seismological Bulletin

of

Weather Bureau of Tyōsen

For the Year

1936

Compiled

By

Weather Bureau of Tyōsen

The Government General of Tyōsen

Zinsen, Tyōsen, Nippon.

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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 occured 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.
PRn	Longitudinal waves n–times reflected at the earth's surface.
S	Normal second phase (transverse waves).
SRn	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.
Δ	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	0.020	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 E-W	200	88 80	5.2 5.4	0.008 0.003	5.4 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	0.015	
	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 km^2., 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.

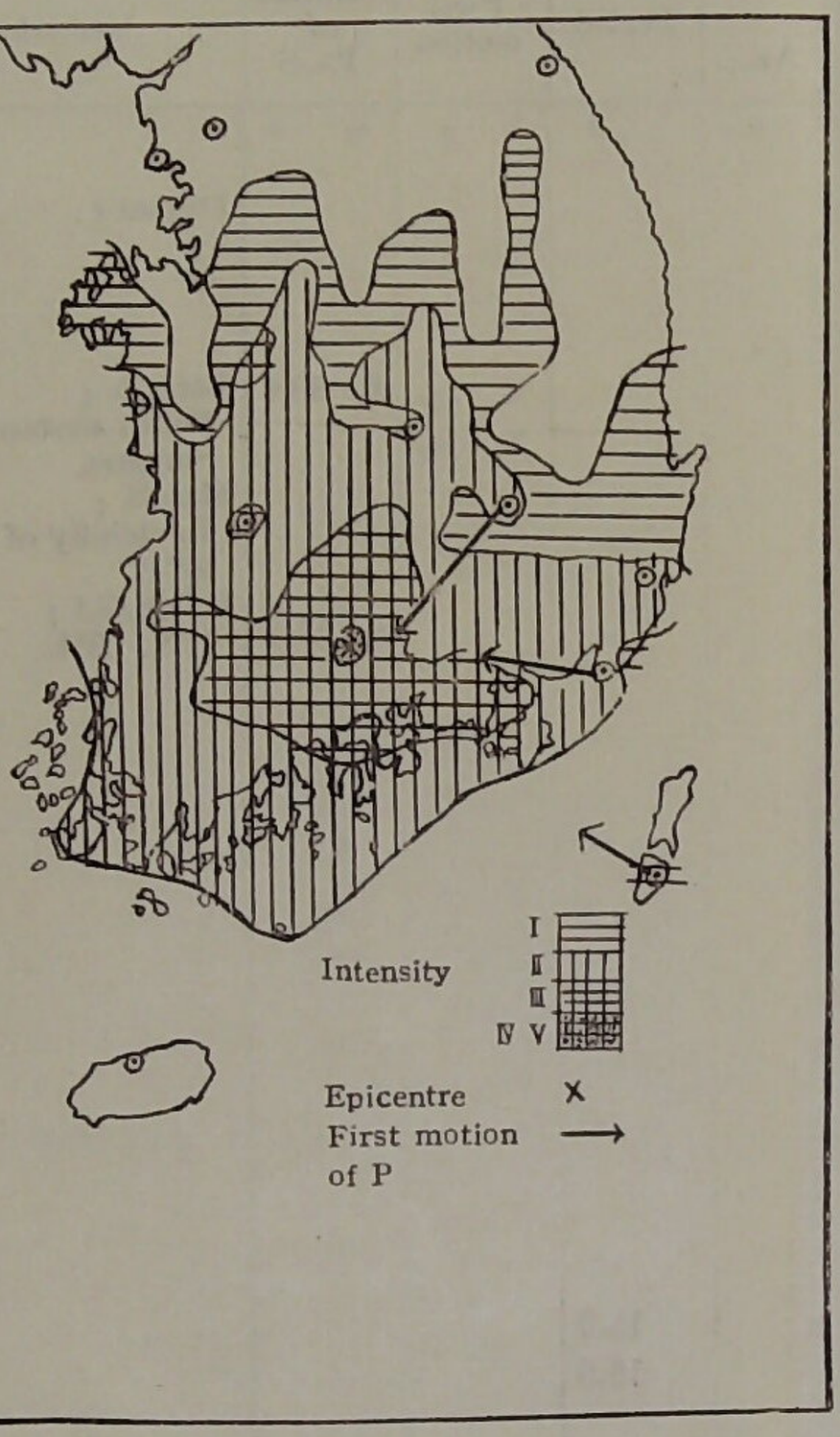
Date	G.M.T. h m	Intensity	Earth Sound	Epicentre and Remarks
Jan. 25	17 50	I; Genpū.	Feeble	Genpū, Keisyō-hokudō.
Jan. 25	22 20	III; Syōseitō.	—	W off Zyun'ito Kōkaidō. Recorded at Zinsen, Keizyō, and Taikyū.
Feb. 24	7 41	III; Zensyū. II; Ihōri.	Feeble	Vicinity of Zensyū, Zenra-hokudō.
Feb. 24	8 07	I; Ihōri.	Feeble	Ihōri, Zenra-hokudō.
Mar. 5	12 30	I; Zyunsen.	—	Zyunsen, Heian-nandō.
Mar. 10	2 41	I; Suigen.	—	Yōhei, Keikidō. Recorded at Zinsen and Keizyō.
Apr. 28	11 45	I; Kinsen.	Feeble	Kinsen, Keisyō-hokudō. Recorded at Taikyū.
Apr. 28	18 46	III; Heisyō. I; Kōryō, Yōkō.	Strong	Heisyō, Kōgendō. Recorded at Zinsen and Keizyō.
Jun. 1	17 50	II; Zensyū.	Feeble	Zensyū, Zenra-hokudō
Jun. 4	13 05	I; Kunsan.	—	Kunsan, 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. I; Kanyō, Sansei.		120km. W off Kōkaidō 38.°3N, 123.°2E.
Sep. 2	2 44	I; Keizyō, Dairen.		
Sep. 26	21 30	I; Seisyu.	Feeble	Seisyu, 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 intensit;- I; Slight, II; Moderate, III; Rather Strong, IV; Strong, V; Very Strong, VI; Disastrous.

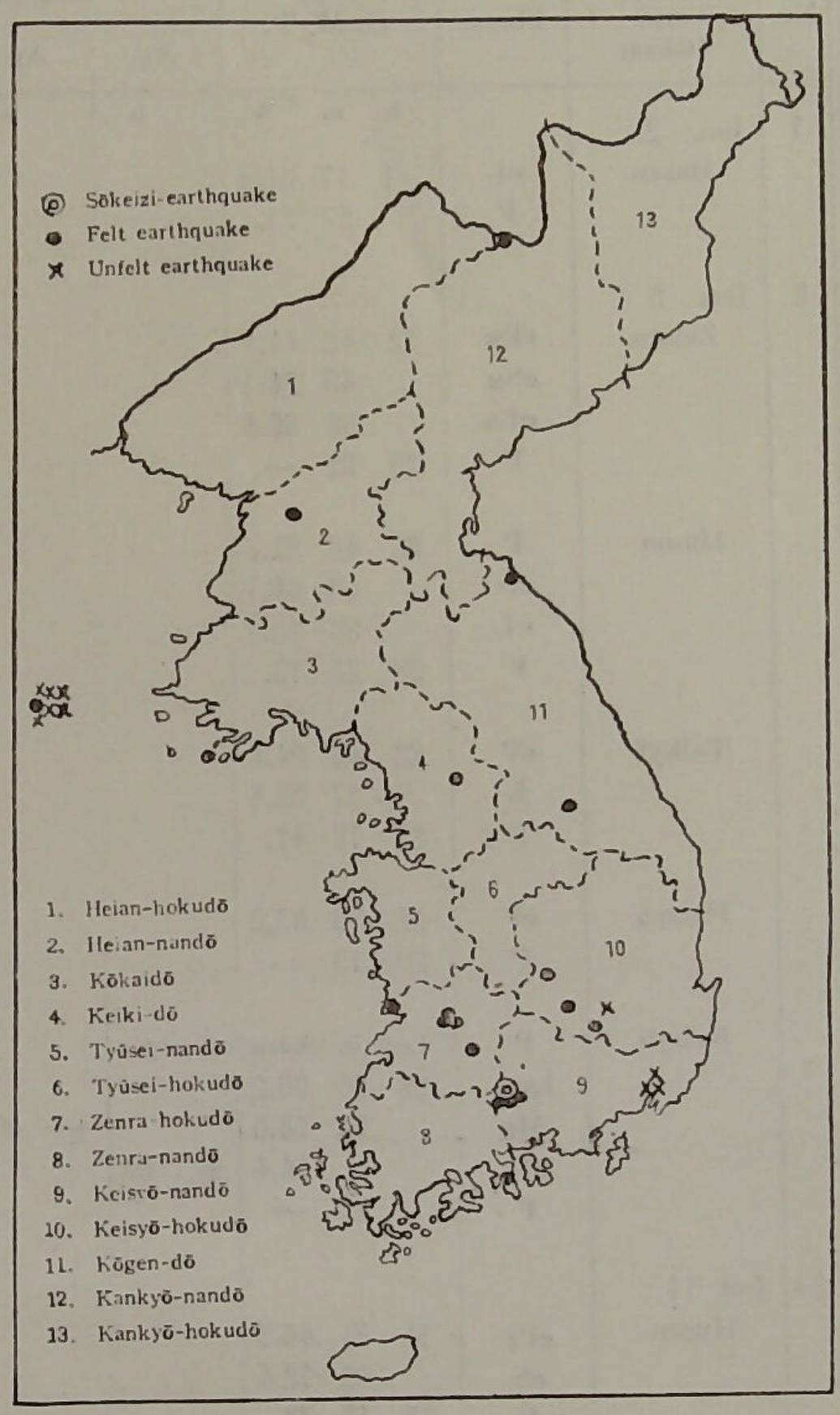
The unfelt earthquakes which occurred in Tyōsen in the year 1936.

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. 38.°1N, 123.°3E.
Mar. 11	8 51	Yellow Sea.			
Jul. 1	8 44	Yellow Sea. 38.°0N, 123.°3E. Felt at Dairen.	Jul. 10	11 01	Ditto, 38.°2N, 123.°3E.
			Sep. 22	2 17	Ditto, 38.°3N, 123.°2E.
Jul. 9	5 19	Husan, Local.	Sep. 2	8 11	Ditto, 38.°3N, 123.°2E.
Jul. 9	6 26	Ditto.	Nov. 1	17 59	Middle part of Yellow Sea ?
Jul. 9	15 55	Taikyū, Local.			

The map of distribution of Seismic Intensities of the Sokeizi-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 A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
1	Jan. 2									
	Husan	eL	1 11 54.3							Distant ?
		F	27 21.							
2	Jan. 2									
	Zinsen	eP'_N	22 42 44.7					N +	6 39.4	Batavia ; Feltin western Sumatra.
		eS_N	49 24.1					Z +		Manila ; In vicinity of 1°S, 97°E.
		eL_N	56 36.4							U.G.E.G.I ;
		F	23 22 —							
	Husan	P	22 43 22.6						6 21.5	1°N, 98°E.
		eS	49 44.1							
		eL	58 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 13 —							
	Keizyō	P	Lost in changing paper							
		L_{NE}	23 00 09.2							
		M_E	04 46.0		± 40		15.0			
		M_N	54.4	± 60			16.0			
		F	25 —							
3	Jan. 14									
	Husan	eP?	14 34 46.3						7 26.1?	J. S. A ; 28.°2S, 62.°8W. in Santiago, Argentina. Depth=590km. H=$14^h12^m25^s$.
		eS	42 12.4							
		F	15 15 38.							U.S.C.G.S ; 29°S, 63°W. H=$14^h12^m15^s$. Depth=600km.
	Zinsen	eN	14 38 23.							
		F	15 00 —							
	Taikyū	P	14 42 12.7						4 05.6	
		S	46 18.3							
		F	15 03 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 ; 19°S, 168°E. H=$17^h41^m10^s$. Depth normal, New Hebrides.
		eS	18 00 28.9							
		F	22 24.							
5	Jan. 20									
	Zinsen	eP_N	17 02 31.1						5 21.8	Manila ; Feltin eastern and southern Mindanao. Probably in Philippine deep.
		eS_N	07 52.9							
		eL_N	11 29.7							
		F	53 —							

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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	
	Keizyō	eP_{NE}	17 02 52.3						4 42.0	U. S. C. G. S.; 5.°7N, 127.°0E. H=16h56m19s. Slightly more than normal depth.
		eS_{NE}	07 34.3							
		eL_{NE}	10 02.3							
		F	18 00 --							
	Husan	eP	17 03 10.6						3 51.5	
		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 18.							
7	Jan. 25									
	Zinsen	iP_{EZ}	22 20 49.5					E —	17.0	Felt at Syōseitō, Kōkaidō. Epicenter in western off Zyun'ito, Tyōsen.
		iS_N	21 06.5					Z —		
		F	21 53.							
	Keizyō	iP_{NE}	22 20 53.2						22.0	
		iS_{NE}	21 15.2							
		F	24 —							
	Taikyū	P	22 24 05.2							
		F	25 08.							
8	Jan. 27									
	Keizyō	eP_{NE}	19 44 53.7							Distant.
		F	57 —							
	Zinsen	eP_{EN}	19 45 42.9							
		F	54 —							
	Husan	eP	19 45 59.6						1 30.8	
		eS	47 30.4							
		F	20 02 30.							
8	Feb. 7								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.
	Heizyō	iP	9 00 41.0							
		iS	04 12.5							
		iL	06 39.5							
		M	11 41.0							
		C	18 27.5							
		F	10 06 —							
	Zinsen	iP_Z	9 00 46.6				6.1	E -5.4	3 42.2	U. G. E. G. I.; Near 36°N, 102°E. U. S. C. G. S.; 35.°4N, 103.°3E. H=8h56m25s. Normal depth.
		iP_{EN}	46.9				5.1	Z -7.6		
		iS_Z	04 28.8			+ 21.1	7.1			
		iS_{NE}	29.3	+ 31.6	+ 9.9		8.6 7.1			

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		iL_N	06 26.0							
		iL_E	33.9							
		iL_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 03.7		± 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	iP_E	9 00 50.2					E -5.	3 38.4	
		iS_E	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	iP	9 01 10.1						4 01.2	
		iS	05 11.3							
		L	07 35.8				9.8			
		M_E	10 46.8		± 204					
		F	10 05 53.							
10	Feb. 8									
	Husan	eP	12 19 10.4						6 18.6	U. S. C. G. S.; 5.°9S, 145.°4E. H=12h11m15s. Depth=240km. New Guinea.
		ePP?	21 11.5							
		eS	25 29.0							
		F	38 30.							
	Taikyū	P	12 19 12.1						6 16.5	
		iN	30.1							
		ePP	21 37.6							
		eS_N	25 28.6							
		F	37 —							
	Zinsen	eP_N	12 19 34.3						6 36.0	
		eS_N	26 10.3							
		F	40 —							
	Keizyō	eP_N	12 19 35.4						6 40.2	
		eS_E	26 15.6							
		F	49 —							
11	Feb. 9									
	Husan	eP?	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
				A_N	A_E	A_Z				
			h m s	μ	μ	μ	s	μ	m s	
		S?	41 15.8							
		F	54 37.							
	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 32.8							U. S. C. G. S.; 18°S, 178°W. H=18h05m38s. Depth 500km.
		F	27 —							
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.°5S, 133.°0E. H=12h46m56s.
		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.°5S, 133.°0E. H=12h46m56s. Depth normal. Banda Sea.
		PP	56 09.2							
		eS	13 00 47.7							
		eL	03 58.0							
		F	58 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	08 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							
		L_{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 AN	Amplitude AE	Amplitude AZ	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		M_N	10 27.7	+ 4.4			4.7			(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		+ 28		3.1			
		M_N	11 49.8	+ 63			2.6			
		F	28 19.							
	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 —							
	Heizyo	eP?	1 10 50.8						1 39.0?	
		S	12 29.8							
		F	34 —							
15	Feb. 21									
	Zinsen	eP_N	6 31 57.6						4 47.2	U. S. C. G. S ; 24.°2N, 98.°2E. H=6h20m53s. Depth=about 80km. Burma-China border.
		eS_N	36 44.8							
		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 20.?	
		eS_{NE}	37 27.9							
		F	55 —							
16	Feb. 21									
	Husan	eP	17 05 26.7						6 03.1	Manila ; In the Timor sea. U. S. C. G. S; 5.°0S, 144.°5E. H=16h57m08s. Normal depth. New Guinea.
		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	

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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	
		eS_{EN}	12 04.8							
		eL_{EN}	15 44.0							
		F	32 —							
	Keizyō	ePN_E	17 05 46.5						6 20.6	
		S_E	12 07.1							
		L_E	15 53.1							
		F	38 —							
17	Feb. 27									
	Husan	P	10 11 51.7						6 07.4	Batavia ; Felt on Timor, Kisar, Zuidwester- and Taimbar Islands. Manila ; Probably western New Guinea ; U. S. C. G. S ; 8°S, 127°E. H=10h04m00s. May be slightly deeper than normal. Zuidwester and Tanimber Islands.
		S	17 59.1							
		L	21 24.0							
		F	50 41.9							
	Taikyū	iP	10 11 57.2						6 14.0	
		iN	12 13.2							
		iN	12 28.2							
		iS	18 11.2							
		F	36 —							
	Zinsen	iP_N	10 12 09.9					N +	6 27.4	
		iP_Z	12 11.2					Z +		
		iN	12 26.8							
		iZ	12 26.5							
		iN	12 42.5							
		iZ	12 45.7							
		iS_{EN}	18 37.3							
		F	42 —							
	Keizyō	iP_N	10 12 12.0					N +3.	6 26.2	
		iS_{NE}	18 38.2							
		I_{NE}	21 51.4							
		F	11 00 —							
	Heizyō	eP	10 12 24.2							
		F	38 —							
18	Feb. 28									
	Keizyō	eP_E?	16 43 00.							Distant.
		F	17 02 —							
19	Mar. 1									
	Heizyō	P	10 25 35.3						3 03.0	Tōkyō ; 44.°8N, 145.°0E. (r) Northern off the cape of Siretoko, Karahuto, Deep focus.
		S	28 38.3							
		F	45 —							
	Keizyō	ePN_E	10 25 37.4						3 03.0	
		iS_{NE}	28 40.4							
		F	39 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
	Taikyū	eP	10 25 40.2						3 08.6	
		S	28 48.8							
		F	36 40.2							
	Zinsen	iP_N	10 25 41.7				4.9	N −6.2	3 04.3	
		iP_E	25 41.7				4.9	E −6.5		
		iP_Z	25 42.1				5.1	Z +9.7		
		iS_{NE}	28 46.0	− 7.2	− 6.5		5.1, 5.1			
		F	40 —							
	Husan	eP	10 25 42.7						3 16.8	
		S	28 59.5							
		F	41 04.2							
20	Mar. 2									
	Taikyū	P	3 22 17.5						2 37.8	Tōkyō ; 41.°6N, 144.°0E. (r)SE off the cape of Erimo, Hokkaido.
		eS	24 55.3							
		L	26 19.7							
		F	4 16 00.4							
	Husan	P	3 22 18.2				4.4	N −3	2 28.7	U. S. C. G. S ; 43.°5N, 144°E. H=3h19m06s. Depth near normal.
		eS	24 46.9				3.9	E −8		
		L	25 43.8							
		M_N	30 43.8	+ 83						
		M_E	30 43.8		− 142		14.7			
		F	4 44 27.8							
	Keizyō	iP_{NE}	3 22 22.3						2 45.0	
		eS_{NE}	25 07.3							
		M_E	28 02.9		± 15		15.0			
		M_N	28 18.5	± 18			15.0			
		F	4 58 —							
	Zinsen	iP_{EN}	3 22 25.1				4.7	E −4.6	2 40.2	
		iP_Z	22 25.6				4.2	N −2.1		
		eS_N	25 05.3				3.4	Z +4.1		
		eL_E	26 03.3							
		M_E	28 15.0		− 183		16.0			
		M_N	28 22.3	+ 300			16.0			
		M_Z	28 28.5			− 285	15.0			
		F	4 27 —							
	Heizyō	iP	3 22 30.3						3 33.0	
		S	26 03.3							
		eL	27 15.8							
		F	4 04 —							
21	Mar. 4									
	Husan	eS	17 06 59.0							Northern off Amami-osima, Kagosima Prefecture.
		F	17 26.5							

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No.	Date of Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			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 32.2							
		F	— 56.							
	Keizyō	iP_N	2 41 23.6					N +1	4.7	
		iS_{NE}	41 28.3							
		F	42 —							
24	Mar. 10									
	Zinsen	eP_E	20 39 08.5							Tōkyō ; 41.°2N, 143.°6E. Southern off the cape of Erimo.
		eL_N	42 57.0							
		F	21 02 —							
	Husan	P	20 39 09.0							U. S. C. G. S ; 41.°2N, 144.°5E. H=$20^h35^m48^s$. Normal depth.
		L	43 23.3							
		F	21 11 43.6							
	Taikyū	eP	20 39 13.3							
		S	?							
		eL	43 09.4							
		F	55 27.6							
	Keizyō	eP_{NE}	20 39 14.3							
		eL_{NE}	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	eP_{NE}	0 47 00.9						3 14.6	
		eL_{NE}	50 15.5							
		F	1 00 —							
	Zinsen	eP_E	0 47 02.5						2 18.6?	
		eS_N?	49 21.1							
		eL_N	50 44.6							
		F	1 11 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
26	Mar. 11									
	Zinsen	ePN	8 51 54.7						16.7	Yellow sea.
		eSE	52 11.4							
		F	55 —							
	Taikyū	eP	8 53 09.1							
		F	58 02.7							
27	Mar. 22									
	Taikyū	eP	12 25 13.4							Chiufeng ; Southwest of Solomon Islands. U. S. C. G. S; 6.°5S, 156.°5E. H=12h16m06s. Normal depth Solomon Islands.
		F	52 47.4							
	Husan	P?	12 25 17.5							
		F	13 07 54.0							
	Zinsen	iPNEZ	12 25 29.0					N +	7 37.9	
		eSN	33 06.9					E —		
		F	59 —					Z +		
28	Mar. 28									
	Taikyū	eP	1 39 51.4							?
		F	45 33.4							
29	Mar. 28									
	Taikyū	eP	5 59 26.2							?
		F	6 01 26.2							
30	Mar. 31									
	Husan	P?	3 37 03.4							Tōkyō ; Southern off the Bonin Islands. Deep focus.
		L?	40 15.2							
		F	58 59.0							
	Taikyū	eP	3 37 16.1							
		i	40 32.4							
		F	47 11.6							
31	Apr. 1									
	Husan	P	2 15 46.8						4 51.4	J. S. A ; Vicinity of 2.°5N, 123.°5E. Depth=about 75km. H=2h09m16s. U. S. C. G. S ; 4.°5N, 127.°2E. H=2h09m30s. U. G. E. G. I; 7°N, 121°E. Felt at Sangir Islands and Menado, Celebes Manila ; Felt at Jolo with int. IV.
		S	20 38.2							
		ME	26 23.4		+ 345		9.8			
		F	4 23 33.2							
	Zinsen	ePNEZ	2 15 53.9						5 25.3	
		iSEN	21 19.2							
		eLE	23 22.2							
		ME	26 37.8		+ 216		9.4			
		MN1	26 43.0	— 160			11.2			
		MZ	27 15.6			+ 128	9.3			
		MN2	28 51.3	— 265			12.9			
		F	4 00 —							

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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	
	Keizyō	ePNE	2 16 03.7						4 38.4	Batavia ; Dostructive on Taland 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							
		F	3 20 —							
32	Apr. 1									
	Husan	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 00 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	eP'N?	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 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Period s	First motion μ	Duration of P~S m s	Remarks
			h m s							
	Zinsen	ePNE	6 25 27.8						6 44.8	
		iSEN	32 12.6							
		F	7 10 —							
35	Apr. 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 36.4							
		F	14 —							
	Taikyū	eS	20 10 24.8							
		F	34 42.3							
	Husan	eS	20 10 54.1							
		eL	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, 138.°0E. H=20h51m06s. 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							
		eL?	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	eP?	21 24 53.0							Tōkyō : 25.°6N, 127.°3E. SW of the Okinawa Island.
		L	25 54.2							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		F	22 12 59.9							
	Taikyū	P	21 25 18.2							
		i	27 30.2							
		F	53 —							
	Zinsen	eP_E?	21 25 33.7						2 10.2?	
		eS_E?	27 43.9							
		eL?	28 52.4							
		F	35 —							
	Keizyō	eS_E?	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.
		eL?	14 13.6							Manila ;
		F	25 29.7							Near 24°N, 124°E.
	Zinsen	e$_N$	14 10 15.8							
		eL	13 31.0							
		F	24 —							
	Keizyō	eP_{NE}	14 10 56.5							
		F	21 —							
	Taikyū	e	14 11 00.0							
		F	25 42.0							
41	Apr. 16									
	Zinsen	eP_N?	20 16 16.0							E off coast of Taitō, Formosa.
		eI_N?	22 07.8							
		F	30 —							
	Husan	eL?	20 21 04.4							
		?	22 28.4							
		F	30 28.4							
	Keizyō	eI_{NE}?	20 21 24.8							
		F	30 —							
42	Apr. 19									
	Husan	P	5 16 09.2						7 09.5	J. S. A ; 9.°0S, 156.°0E.

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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	
		PR_2?	19 48.0							H=5h07m12s.
		S	23 18.7							U. S. C. G. S ;
		F	7 51 32.9							7.°3S, 156.°6E.
										H=5h07m15s.
	Taikyū	P	5 16 16.8						7 15.0	Region of Solomon
		S	23 31.8							Islands.
		L	28 21.1							
		F	6 49 —							
	Keizyō	iP_{NE}	5 16 31.5						7 25.6	
		i_{NE}	20 34.1							
		S_{NE}	23 57.1							
		M_E	31 31.3		+ 115		16.0			
		F	7 40 —							
	Zinsen	iP_N	5 16 32.7					N +2.2	7 26.4	
		iP_E	16 32.7					E −3.7		
		iP_Z	16 32.7					Z +8.6		
		iS_N	23 59.1	+ 7.8			7.8			
		eL_E	27 10.8							
		F	7 02 —							
	Heizyō	eP	5 16 47.7						5 42.0	
		eS	22 29.7							
		L	28 35.7							
		M_E	33 28.7							
		F	6 26 —							
43	Apr. 19									
	Taikyū	eP	9 11 26.7						6 32.0	U. G. E. G. I ;
		eS	17 58.7							Region of Andaman,
		eL	36 18.7							Indian Ocean.
		F	55 —							U. S. C. G. S ;
										13°N. 93°E.
										H=9h04.1m.
										Depth normal,
	Husan	eP?	9 11 32.1						6 27.0?	Near Andaman
		S	9 17 59.1							Islands in Bay of
		F	57 14.5							Bengal.
	Zinsen	eP_E	9 11 44.7						6 02.6	
		eS_N	17 47.3							
		eL_E	23 50.0							
		F	50 —							
	Keizyō	eP_{NE}	9 11 46.9						6 12.6	
		S_{NE}	17 59.5							
		L_{NE}	24 20.1							
		F	10 00 —							
44	Apr. 23									
	Husan	P?	23 21 50.9						6 03.2?	J. S. A ;
		S	27 54.1							50.°5N, 178°E.
										H=23h14m34s.

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No.	Date and Station	Phase	G. M. T.	Amplitude AN	Amplitude AE	Amplitude AZ	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		F	52 50.8							Depth=100km. U. S. C. G. S ; 49.°0N, 179.°5E. H=23h14m19s. Depth normal. Aleutian.
	Zinsen	ePNE	23 21 51.8						5 56.6	
		eSEN	27 48.4							
		F	52 —							
45	Apr. 27									
	Zinsen	ePZ	0 03 55.1						3 56.6	Nanking ; 28.°3N, 103.°8E. Heavy damages at Suikiang, Yunnan. Chiufeng ; Felt at Shueh-Chiang, Yunnan, intensity R. F. VIII. and at Chungching and Chengtu, intensity R. F. VI. U. G. E. G. I ; 30.°N, 103°E.
		ePEN	03 56.8							
		eSEN	07 51.7							
		eSZ	07 53.1							
		eLE	09 56.3							
		eLZ	09 58.0							
		ME	11 20.5		± 390		10.6			
		MN	13 55.9	± 190			7.7			
		F	48 —							
	Keizyō	ePNE	0 03 55.3						4 01.6	U. S. C. G. S ; 28.°5N, 103.°0E. H=23h59.0m,26th
		eSNE	07 56.9							
		eLNE	10 25.1							
		MN	11 22.1	+ 140			6.8			
		ME	13 04.2		— 110		8.2			
		F	52 —							
	Heizyō	P	0 04 02.7						3 48.0	
		S	0 07 50.7							
		L	10 32.7							
		MN	11 11.1							
		ME	12 32.7							
		F	35 —							
	Taikyū	P	0 04 06.3						4 04.3	
		S	08 10.6							
		ME	11 38.9		+ 42		4.7			
		MN	11 44.9	— 79			5.1			
		F	49 —							
	Husan	P	0 04 10.8						4 03.7	
		e	05 58.1							
		S	08 14.5							
		L	11 33.7							
		MN1	14 17.1	+ 53			7.0			
		ME1	14 17.1		— 61		7.0			
		MN2	16 14.2	± 47			7.7			
		ME2	16 14.2		± 67		7.7			
		F	1 03 35.8							
46	Apr. 27									
	Taikyū	P	1 38 22.5						4 08.6	After shock of No. 45.
		S	42 31.1							
		F	55 —							

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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	
	Husan	P	1 38 23.4						4 07.1	
		S	42 30.5							
		L	45 50.4							
		F	2 05 35.6							
	Zinsen	eP'_E	1 38 37.4						3 42.1	
		eS_E	42 19.5							
		eL_E	44 37.1							
		F	2 00 —							
	Keiyzō	iS_{NE}	1 42 11.1							
		eL_{NE}	45 01.1							
		e_{NE}	46 36.1							
		F	59 —							
47	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. 28									
	Taikyū	P	11 45 25.1							Local. Felt et Kinsen.
		F	45 37.8							
49	Apr. 28									
	Zinsen	eP'_N	13 43 30.9						6 24.6	Batavia ; Felt at Tepa, Babar Islands. Manila ; Deeper than normal. Felt at Darwin, Australia.
		ePP_N	44 22.2							
		eS_{NE}	49 55.5							
		F	14 02 –							
	Taikyū	eS	13 49 31.1							
		F	53 51.2							
	Keizyō	eS_E	13 49 59.3							
		F	58 —							
50	Apr. 28									
	Keizyō	eP_{NE}	18 32 08.6						4 01.4	After shock of No. 45, Szechwan Province, West China.
		eS_{NE}	36 10.0							
		eL_{NE}	39 03.4							
		F	50 —							
	Zinsen	eS_N	18 35 59.3							
		eL_{NE}	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 A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		I.	41 48.2							
		F	55 27.8							
	Taikyū	eS?	18 38 50.3							
		F	47 36.3							
51	Apr. 28									
	Keizyō	iP_{NE}	18 46 37.4						17.2	Near Heisyō, Kōgen-dō.
		iS_{NE}	46 54.6							Felt at Heisyō, Yōkō and Kōryō.
		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 23.3							
		F	17 03 —							
	Zinsen	eI_N	16 53 20.5							
		F	17 03 —							
	Husan	L	16 53 46.5							
		F	17 06 23.8							
53	May 5									
	Husan	eP	19 51 30.8						6 01.4	Manila ; 6.°5S, 148°E. U. S. C. G. S ; 3°S, 149°E. H=19h43m09s. 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 38.0	
		ePR_{2N}	53 22.7							
		eS_N	58 10.1							
		eSR_{2N}	20 01 39.5							
		F	18 —							
	Keizyō	eP_{NE}	19 51 33.8						6 46.0	
		eS_{NE}	58 19.8							
		F	20 16 —							
	Taikyū	ePR_1	19 53 06.4							
		F	20 13 —							
54	May 8									
	Zinsen	eP_N	9 19 47.7						5 06.3	Batavia ; 5°N, 130°E. Deep focus, Java Sea, felt from Sindangbarang (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 A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Period μ	First motion	Duration of P~S	Remarks
			h m s						m s	
		F	40 —							(Bali).
										Manila ;
	Keizyō	eP?E	9 20 16.6						4 45.6	Region of
		eSNE	25 02.2							5°N, 130°E.
		F	41 —							U. S. C. G. S;
										6°S, 112°E.
										H=9h11m30s.
										Depth 500km.
	Taikyū	eP	9 20 16.6						4 31.4	Java Sea.
		eS	24 48.0							
		eL	27 54.1							
		F	39 —							
	Husan	e	9 20 50.5							
		S	24 37.4							
		F	39 43.5							
55	May 8									
									3 54.6	Nanking ;
	Keizyō	ePNE	15 29 14.0							Shaken Cheugtu(V)
		eSNE	33 08.6							Szechwan, China.
		eLNE	36 00.6							
		F	52 —							
	Taikyū	eP	15 29 20.4						4 02.5	
		S	33 22.9							
		L	36 14.4							
		F	54 —							
	Husan	eP	15 29 22.7						4 05.8	
		S	33 28.5							
		L	38 13.6							
		F	55 42.3							
	Zinsen	ePN	15 29 44.9						3 16.8	
		eSE	33 01.7							
		eLN	35 36.4							
		F	55 —							
56	May 10									?
	Husan	e	4 10 40.6							
		F	14 36.3							
57	May 10									
	Husan	e	6 12 39.1							Distant.
		F	24 35.9							
58	May 11									
	Husan	P	17 35 47.8						6 57.7	Manila ;
		S	42 45.5							Region of
		?	45 44.4							4°S, 154°E.
		eL	47 58.2							U. S. C. G. S ;
		F	18 13 31.0							5°S, 153°E.
										H=17h27m23s.
										Region of New

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

No.	Date and Station	Phase	G. M. T.	Amplitude AN	Amplitude AE	Amplitude AZ	Period	First motion	Duration of P~S	Remarks
			h m s	μ	ι	μ	s	μ	m s	
	Taikyū	P	17 35 58.0						6 58.3	Ireland, east of New Guinea.
		eS	42 56.3							Normal depth.
		F	18 10 05.0							
	Zinsen	ePNE	17 36 09.8						7 06.1	
		eSN	43 15.9							
		F	18 18 —							
	Keizyō	ePNE	17 36 12.2						7 17.8	
		eFNE	43 30.0							
		F	18 07 —							
59	May 13									
	Husan	P	11 10 29.5						1 04.0	Near Okinosima, Kōti Prefecture.
		S	11 33.5							
		ME	12 05.2		± 1		3.5			
		F	20 24.1							
	Taikyū	eP	11 10 45.8							
		F	20 05.1							
	Keizyō	eSNE?	11 12 28.0							
		eLNE?	13 12.8							
		F	21 —							
	Zinsen	eSE?	11 13 10.2							
		F	16 —							
60	May 16									
	Zinsen	ePE?	6 50 01.4						3 54.8?	Fore shock of next No. 61.
		eSE?	53 56.2							
		eLN?	56 30.4							
		F	Lost in next quake.							
	Keizyō	ePNE	6 50 06.3						3 56.6	
		eSNE	54 02.9							
		eLNE	56 53.3							
		F	7 10 —							
	Taikyū	eP	6 50 15.7						4 04.1	
		eS	54 19.8							
		F	7 06 —							
	Husan	eP	6 50 16.6						4 04.4	
		S	54 21.0							
		F	Lost in next quake.							
61	May 16									
	Zinsen	iPE	7 10 28.4					E —	3 52.8	Nanking ; Felt at Chungking (VI)
		iPN	10 28.4					N —		
		iPZ	10 29.8				1.5	Z –1.4		

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		iS_N	14 21.2	+ 17.0			8.5			U. G. E. G. I ; 28°N, 102°E.
		iS_Z	14 22.1							Chiufeng ;
		iS_E	14 24.5		+ 27.8		8.5			Strong tremors felt at Chungching, Szechuan, China.
		eL_{NE}	16 33.1							U. S. C. G. S ; 28.°7N, 104.°0E. H=7h05m41s.
		M_{N1}	17 27.5	+ 240			8.1			
		M_{N2}	18 04.4	— 182			7.5			
		M_{E1}	18 53.6		+ 184		8.9			
		M_{E2}	19 30.1		— 272		10.4			
		M_{Z1}	19 50.8			-259	9.1			
		M_{Z2}	20 24.4			-262	9.1			
		F	8 16 —							
	Heizyō	iP	7 10 29.8						3 49.2	
		iS	14 19.0							
		L	17 13.0							
		M_N	17 30.0							
		M_E	17 31.0							
		C	23 10.0							
		F	43 —							
	Keizyō	eP_{NE}	7 10 32.9						3 56.8	
		iS_{NE}	14 29.7							
		L_{NE}	17 02.9							
		M_N	17 44.7	— 360			10.0			
		M_E	19 13.1		+ 280		10.0			
		F	8 12 —							
	Husan	P	7 10 41.3						4 00.1	
		S	14 41.4							
		M_{E1}	14 56.2		+ 108		5.4			
		L	18 00.5							
		?	18 47.9							
		M_{E2}	20 18.4		— 323		9.7			
		F	8 42 15.4							
	Taikyū	iP	7 10 43.6						4 04.1	
		S	14 47.7							
		L	16 20.8							
		M_E	19 59.3		+ 46		9.9			
		M_N	19 00.2	— 114			9.9			
		F	8 03 —							
62	May 19									
	Zinsen	eL_N	21 43 52.9							Manila ; 1°N, 141°E.
		F	22 08 —							
63	May 20									
	Husan	eP	3 14 35.8						7 31.3	J. S. A ; 7.°7S, 159.°6E. H=3h05m21s. 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
				A_N	A_E	A_Z				
			h m s	μ	μ	μ	μ	s	m s	
	Taikyū	P	Lost in changing paper							U. S. C. G. S; 9°S, 160°E. H=3h05m17s. Solomon Islands Near normal depth.
		eS	3 22 13.5							
		eL	28 06.0							
		F	4 22 —							
	Keizyō	ePN_E	3 14 56.7						7 50.0	
		eSN_E	22 46.7							
		F	4 13 —							
	Zinsen	eP_N	3 14 57.8						7 41.5	
		ePR_{1N}	16 57.7							
		eS_N	22 39.3							
		F	4 20 —							
64	May 22									
	Husan	e	6 53 18.4							S off Osima, Idu.
		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=3h02.m7. Northeastern New Guinea.
		eS	16 50.1							
		eSR_{1E}	20 02.8							
		F	43 04.6							
	Taikyū	eP	3 10 38.0						6 21.8	
		eS	16 59.8							
		F	39 17.0							
	Zinesn	eP_N	3 10 52.9						6 41.6	
		eS_N	17 34.5							
		eSR^1_N	20 52.7							
		F	40 —							
	Keizyō	eP_{NE}	3 10 53.8						6 33.8	
		eS_{NE}	17 27.6							
		eL_{NE}	20 57.2							
		F	37 —							
67	May 27									
	Heizyō	P	6 26 24.2						5 39.3	J. S. A; 24.°2N, 85.°3E. H=6h19m27s. 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	iPz	6 26 24.1				E +1.9		5 42.5	U. S. C. G. S; 28.°9N, 83.°5E.

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	μ	s	m s	
		iP_{EN}	26 24.7					E +1.9		H=6h19m23s.
		iS_N	32 07.2					N —		Nepal in northern India.
		eSR_{IN}	34 49.5					Z +2.8		Depth slightly less than 80km.
		eI_N	36 37.0							
		M_N	39 41.9	+ 320			22.5			
		M_E	42 33.5		± 117		13.1			
		M_Z	42 34.1			± 129	12.0			
		$eP'P'_{NE}$	7 02 44.0							
		F	33 —							
	Keizyō	iP_E	6 26 27.4						5 29.8	
		eS_E	31 57.2							
		eI_E	34 59.8							
		M_E	42 46.3		— 140		14.0			
		$eP'P'_E$	7 02 34.6							
		F	27 —							
	Husan	P	6 26 38.5						5 44.4	
		?	28 14.1							
		eS	32 22.9							
		M_E	44 05.2		± 133		13.1			
		eP'P'	7 04 27.7							
		F	51 38.4							
	Taikyū	P	6 26 39.7						5 53.7	
		i_E	28 11.5							
		S	32 33.4							
		L	40 07.7							
		M_N	42 01.1	+ 135			12.3			
		M_E	43 56.6		+ 119		12.1			
		P'P'	7 02 15.7							
		F	35 —							
68	May 28									
	Keizyō	eP_E	12 31 44.3						4 01.2	Manila ; 22°N, 119.°50'E.
		eS_E	35 45.5							
		eL_E	37 50.9							
		F	50 —							
	Taikyū	eP	12 32 02.7							
		F	46 24.7							
	Husan	eP	12 32 08.1							
		eL?	37 25.4							
		F	56 35.4							
69	May 28									
	Husan	eP?	19 18 00.8							J. S. A ; 9.°0N, 103.°5W. H=18h49m11s. Depth=about 270 km.
		eL	40 34.7							
		F	20 37 34.6							
70	June 1									U. S. C. G. S ; 10°N, 104°W. Pacific Ocean off Mexico.
	Taikyū	P	5 45 01.1						1 14.8	

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
				A_N	A_E	A_Z				
			h m s	μ	μ	μ	s	μ	m s	
		S	46 15.9							?
		F	49 05.5							
71	June 3									
	Husan	P	2 58 27.6						2 23.6	Tōkyō ; 41.°3N, 142.°3E. (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							
	Taikyū	P	2 58 30.9							
		F	3 14 —							
	Keizyō	eP_E	2 58 31.2						2 26.6	
		iS_E	3 00 57.8							
		iL_E	02 10.4							
		F	21 —							
	Zinsen	e	2 59 —							
		F	13 —							
72	June 4									
	Taikyū	P	13 11 01.7							Distant.
		F	26 13.7							
	Zinsen	e	13 12 —							
		F	25 —							
73	June 5									
	Taikyū	P	14 44 14.2							Manila ; Vicinity of 7°N, 135°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	eP_N	14 44 26.2						5 35.3?	
		ePR_{2N}?	45 55.7							
		eS_N?	50 01.5							
		F	15 05 —							
	Keizyō	eP_{NE}	14 44 27.3							
		F	15 05 —							
74	June 9									
	Zinsen	eS_N?	16 50 03.8							Manila ; Vicinity of 3°S, 95°E.
		eL_N?	57 50.7							
		F	17 17 —							Batavia ; Felt in W. Sumatra.
	Keizyō	eS_{NE}	16 51 03.2							
		F	17 16 —							
	Taikyū.	e	16 58 18.6							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		e	17 01 10.6							
		F	13 —							
	Husan	eL?	16 59 29.0							
		e	17 03 22.8							
		e	06 04.1							
		F	18 57.1							
75	June 10									
	Keizyō	eP_E?	3 55 22.3							U. S. C. G. S ; 27.°5N, 63.°5E. According to Baku. Near Persia-Baluchistan border.
		eL_{NE}	4 03 31.3							
		F	14 —							
76	June 10									
	Husan	P	8 31 15.0						6 16.5	J S. A ; 5.°4S, 147.°0E. H=8h23m20s. Depth=150km. Manila ; 6°S, 144°E.
		S	37 31.5							
		L	42 39.6							
		F	9 36 54.4							
	Taikyū	P	8 31 23.8						6 24.0	U. G. E. G.I ; Sea of Corail. U. S. C. G S; 5.°5S, 147°.5E. H=8h23m26s. Depth=160km. East of New Guinea.
		S	37 47.8							
		L	42 13.8							
		F	9 09 01.8							
	Keizyō	iP_{NE}	8 31 38.2						6 38.6	
		iPP_{NE}?	32 25.6							
		eS_{NE}	38 16.8							
		eN_E	39 23.8							
		M_N	39 30.2	— 16	+ 10		6.8			
		M_E	39 52.3				5.6			
		eL_{NE}	42 31.8							
		F	9 25 —							
	Zinsen	iP_N	8 31 39.5					N –1.1	5 57.3	
		iP_E	31 39.5					E —		
		iP_Z	31 40.3					Z –1.0		
		iPR_{1NE}	32 15.6	+ 5.6	— 3.0		6.0 6.0			
		iPR_{1Z}	32 18.4			+ 10.4	5.7			
		iPR_{2N}	34 06.9							
		iPR_{2Z}	34 07.8							
		eS_{NZ}	37 36.8							
		i_{NE}	39 23.1							
		M_N	39 30.7	± 20			7.6			
		M_E	39 52.9		± 20		8.7			
		i_{NEZ}	42 58.8							
		F	9 24 —							
	Heizyō	eP	8 31 50.9							
		F	44 —							
77	June 11									

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
	Husan	e	13 07 33.1							Distant.
		F	15 51.9							
	June 19									
78	Zinsen	eP?	16 43 01.5							Distant.
		eL?	49 56.7							
		F	17 03 —							
	Taikyū	eP?	16 43 06.5						7 59.5	
		eS	51 06.0							
		F	17 10 00.							
	Keizyō	eP_{NE}	16 43 59.4						2 55.0	
		eS_{NE}	46 54.4							
		eL_{NE}	50 24.4							
		F	17 12 —							
	Husan	e	16 49 34.1							
		F	17 17 29.7							
79	June 25	iP	16 53 44.8				2.1	E +4.5	1 30.2	Tōkyō ; 32.°5N, 137.°9E. (r) SW off the Hatizyō Island. Deep focus.
	Husan	S	55 15.0							
		F	17 10 47.4							
	Taikyū	iP	16 53 50.8					N –2	1 36.1	Manila ; 32°N, 145°E.
		S	55 26.9					E +7		
		F	17 13 00.							
	Keizyō	iP_{NE}	16 54 13.6						1 55.8	
		iS_{NE}	56 09.4							
		M_N	56 10.6	— 21			3.2			
		M_E	56 12.8		+ 17		3.8			
		F	17 10 —							
	Zinsen	iP_{1NE}	16 54 15.2					E +	1 57.0	
		iP_{1Z}	54 16.9					N —		
		iP_{2NE}	54 17.1	+ 6.7	— 13.8		1.5, 1.5	Z —		
		iP_{2Z}	54 18.4			+ 17.9	1.8			
		iS_{1NE}	56 12.2	+ 5.6	+ 3.0					
		iS_{2NE}	56 13.8	— 23.3	— 26.7		3.5, 3.5			
		iS_{2Z}	56 15.6			— 9.0	2.5			
		F	17 05 —							
	Heizyō	iP	16 54 31.3						2 07.8	
		iS	56 39.1							
		F	17 07 —							
80	June 27	eP_N?	21 17 07.1						3 17.8?	Tōkyō ; 43.°6N, 146.°7E.
	Zinsen	eS_N?	20 24.9							

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		F	27 —							Vicinity of the Sikotan Island.
	Keizyō	eP_{NE}	21 17 14.6						3 06.0	U. S. C. G. S ; 43.°8N, 146.°4E. H=21h13m26s.
		eS_{NE}	20 20.6							
		eL_{NE}	22 57.6							
		F	32 —							
	Husan	e	21 17 14.6							
		F	27 14.6							
	Heizyō	eP	21 17 19.0							
		F	27 —							
81	June 28									
	Heizyō	eP	8 12 30.0							SE of the Hatizyō Island.
		F	31 —							Manila ; 43°N, 144°E.
	Husan	P	8 13 07.4						4 18.1	U. S. C. G. S ; 32.°5N, 145.°5E. According to Sverdlovsk. H=8h10.4m.
		S	17 25.5							
		F	53 14.1							
	Taikyū	P	8 13 15.8						4 02.1	
		eS	17 17.9							
		F	53 —							
	Keizyō	eP'_{NE}	8 13 38.4						3 34.0	
		eS_{NE}?	17 12.4							
		eL_{NE}	18 21.0							
		M_E	20 45.5	± 18		11.0				
		$eP'P'_{NE}$?	35 24.4							
		F	9 10 —							
	Zinsen	eP'_N	8 13 41.2						2 39.8?	
		eS_N?	16 21.0							
		eL_N?	18 21.7							
		F	56 —							
82	June 28									
	Keizyō	eP'_E	17 25 45.2							E off the Hatizyō Island.
		eL_E	32 02.2							
		F	45 —							
83	June 29									
	Keizyō	eP'_{NE}	14 37 59.6						6 10.8	Manila ; Vicinity of 37°N, 78°E.
		eS_{NE}	44 10.4							U. G. E. G. I ; 39°N, 65.°5E. Turkestan.
		F	15 29 —							
	Taikyū	ei'	14 38 15.9						6 26.0	U. S. C. G. S ; 37.°0N, 70.°9E. H=14h30m14s. Depth=about 220 km. Afghanistan.
		eS	44 41.9							
		F	15 07 —							
	Husan	ei'	14 38 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 A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		eS	44 47.8							
		F	15 06 12.4							
84	June 30									
	Taikyū	eL?	1 21 55.9							
		F	31 —							?
85	June 30									
	Husan	iP	15 12 21.5					E—9.7	4 44.0	J. S. A ; 51.°0N, 161.°1E. H=15h06m48s. Depth=about 50km.
		S	17 05.5							
		M_E	17 21.0		— 273		12.2			
		?	25 30.1							U. G. E. G. I; 52.°5N, 157°E. Kamchatka.
		F	17 27 01.2							
	Heizyō	iP	15 12 26.6						4 37.5	U. S. C. G. S ; 51.°0N, 160.°8E. H=15h06m40s. Depth normal North Pacific Ocean off Kamchatka.
		S	17 04.1							
		L	23 19.1							
		M_E	25 06.2		+ 54		14.			
		C	28 19.1							
		F	16 21 —							
	Keizyô	iP_E	15 12 28.3					E— 5	4 35.6	
		$ePR_{1\,NE}$	13 53.3							
		eS_{NE}	17 03.9							
		M_E	22 38.5		+ 160		13.0			
		F	17 29 —							
	Zinsen	iP_Z	15 12 30.3				3.3	Z+9.7	4 42.8	
		iP_E	12 30.4				2.0	E—3.0		
		iP_N	12 30.4				2.0	N—2.3		
		i_E	13 36.3		— 43.7		5.0			
		i_N	13 45.7	+ 32.5			5.0			
		iS_N	17 13.2	— 56.3			10.0			
		iS_Z	17 16.8							
		iS_E	17 17.1		— 22.8		9.0			
		M_{E1}	17 31.8		— 117		7.5			
		M_{N1}	17 33.8	— 125			7.5			
		M_{Z1}	22 50.5			— 412	15.8			
		M_{N2}	25 49.6	— 309			16.0			
		M_{E2}	26 06.0		— 300		14.4			
		M_{Z2}	26 19.5			— 463	15.8			
		F	16 46 —							
	Taikyū	P	15 12 32.1					N— 9	4 44.8	
		i	13 06.1					E— 9		
		S	17 16.9							
		L	21 26.9							
		M_N	24 59.7	— 900			33.4			
		M_E	25 37.2		± 870		31.8			
		F	48 —							
86	June 30									

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	μ	μ	μ	s	μ	m s	
	Keizyō	eI'_{NE}?	19 55 3.00							U. G.E. G. I ; 37.°5N, 60.°5E. Turkestan.
		F	20 27 —							
87	July 1									U. S. C. G. S ; 34.°8N, 60.°3E. Normal depth Near Afghanstan-Persia border.
	Heizyō	iP	8 44 12.6					N —	27.9	
		iS_N	44 40.5					E —		
		F	51 —							
	Zinsen	iP_E	8 44 24.3					E —	33.6	Yellow sea (120 km. W off Kōkaidō.) 38.°0N, 123.°3E. Felt at Dairen.
		eP_Z	44 24.7							
		iS_N	44 57.9							
		iS_Z	45 01.4							
		iS_E	45 04.7							
		M_N	45 07.2	+ 16			4.5			
		F	55 —							
	Keizyō	eP_{NE}	8 44 28.1						36.6	
		eS_{NE}	45 04.7							
		F	55 —							
	Taikyū	eP_E	8 45 02.0?						58.5?	
		eS_{NE}	46 00.5							
		F	50 30.							
	Husan	S?	8 46 24.4							
		L?	46 58.5							
		F	54 10.2							
88	July 3									
	Taikyū (Intencity) II	iP_N	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.
		iP_E	02 35.9				3.4	E -6.5		
		iS_N	02 49.0	+ 33.3			3.4			
		iS_E	02 49.1		— 26.1		3.4			
		M_N	02 53.7	+ 123			3.2			
		M_E	02 53.7		— 76		2.6			
		F	18 22.							
	Husan (Intencity) II	iP_E	21 02 37.5				1.8	E -7.5	14.2	
		iP_N	02 37.7				—	N +1.1		
		iS_E	02 51.7							
		M_E	02 55.8		— 119		2.9			
		M_N	02 55.8	> +97						
		F	16 35.							
	Zinsen	iP_Z	21 02 58.6					Z +	33.8	
		iP_{NE}	02 59.4					N +		
		ipP_{NE}	03 03.7					E —		
		iPP_{NE}	03 07.1							
		iS_E	03 33.2							
		iS_N	03 35.4							
		iS_Z	03 36.8							
		M_E	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 A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		M_{N1}	03 50.2	+ 34			3.4			
		M_{N2}	03 51.9	— 34						
		F	13 30.							
	Keizyō	iP_{NE}	21 02 58.8					N +	30.6	
		pP_{NE}	03 02.8					E —		
		iS_E	03 29.4							
		sS_{NE}?	03 38.2							
		M_E	03 41.6		+ 66		3.2			
		M_{N1}	03 49.3	+ 41			3.3			
		M_{N2}	03 50.9	— 52			3.3			
		F	13 20.							
	Heizyō	P	21 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. 88.
		eS	49 28.0							
		F	50 05.2							
	Taikyū	P	4 49 24.1							
		F	50 14.1							
90	July 5									
	Zinsen	eP_N	19 00 55.5?						6 04.9?	Manila ; 3.°20′N, 126.°20′E. H=$18^h54^m48^s$. Felt in southern and eastern Mindanao, Sulu and Palau.
		eS_N	07 00.4?							
		eL_E	09 33.8							
		F	20 40 —							
	Taikyū	eP	19 01 39. ?	Time uncertain					5 04. ?	Batavia ; Felt in N. Moluccas and Mindanao.
		eS	06 43. ?							J. S. A ; 4.°0N, 124.°9E.. H=$18^h55^m04^s$. Depth=70km.
		eL	10 27. ?							
		F	34 ?							
	Keizyō	eP_{NE}	19 01 40.1						5 10.2	U. G. E. G. I ; Region of Celebes ; U. S. C. G. S; 6.°3N, 127.°0E. H=$18^h55^m25^s$. Depth=120km. Pacific Ocean off Mindanao.
		eS_{NE}	06 50.3							
		F	49 —							
	Heizyō	eP	19 01 50.3							
		F	20 40 —							
	Husan	eP	19 02 13.0						4 29.3	
		eS	06 42.3							
		F	36 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
				A_N	A_E	A_Z				
			h m s	μ	μ	μ	s	μ	m s	
		F	26 40.6							
92	July 9									
	Husan	eS	6 26 50.1							Local
		F	26 59.2							
93	July 9									
	Taikyū	e	15 55 40.1							Local
		F	56 16.5							
94	July 9									
	Heizyō	iP_E	17 00 19.8					N —	26.1	After shock of No.87. 38.°1N, 123.°3E. Yellow sea.
		iS_{NE}	00 45.9					E —		
		F	12 —							
	Zinsen	iP_{EN}	17 00 32.1					N +	34.4	
		iP_Z	00 32.3					E —		
		iPR_{1E}	00 34.2					Z +		
		iS_N	01 06.5							
		iS_E	01 07.0							
		iS_Z	01 07.3							
		iS_{1Z}	01 09.4							
		iS_{1E}	01 11.3							
		M_N	01 15.2	+ 27			4.8			
		F	09 —							
	Keizyō	ePE	17 00 33.7						43.2	
		ePR_{1E}	37.5							
		iS_E	01 16.8							
		F	12 —							
	Taikyū	ePE	17 01 03.4						1 02.8	
		eS_{NE}	02 06.2							
		F	09 40.							
95*	July 10									
	Heizyō	iP_E	11 01 15.0					E —	26.0	Yellow sea 38.°2N, 123.°3E. After shock of No. 94.
		iS_E	01 41.0							
		F	07 —							
	Zinsen	ePE	11 01 24.3						35.7	
		eS_N	02 00.0							
		F	05 —							
	Keizyō	ePE	11 01 27.1						39.6	
		eS_E	02 06.7							
		F	05 —							
	Taikyū	ePN?	11 02 16.8						1 10.8?	
		eS	03 27.6							
		F	05 —							

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
96	July 13									
	Zinsen	ePN	11 32 09. ?						7 44.	J. S. A.; 23.°0S, 70.°2W. H=11h12m29s. Depth=60km.
		eSN	39 53. ?							
		F	13 50 —							
	Taikyū	eP	11 32 26.7						8 36.3	U. S. C. G. S ; 25.°0S, 69.°9W. H=11h12.3m.
		e	36 52.0							
		eS	12 41 03.0							U. G. E. G. I ; 25°S, 71°W. Destructive at Taltal, coast of Chile.
		eL	50 22.5							
		F	13 48 39.0							
	Heizyō	eP	11 32 26.9							La Paz ; 24°S, 70°W. Destructive at Chanaral, Chile.
		F	13 38 —							
	Keizyō	$ePNE$?	11 32 30.						8 16. ?	
		$eSNE$?	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 Hatizyō Island.
		i	57 42.4							
		F	12 08 —							
98	July 20									
	Taikyū	eP	23 57 41.8							Tōkyō ; 24.°4N, 120.°9E. Taiko, Sintikusyū, Formosa.
		F	24 10 55.							
	July 21									
	Keizyō	$ePNE$?	00 00 42.0						1 12.2?	
		$eSNE$	02 04.2							
		F	13 —							
99	July 23									
	Keizyō	$ePNE$?	7 08 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	eIN?	7 13 10.							
		F	23 —							
100	July 28									
	Husan	eI'	5 26 27.4						5 52.6	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 A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		eS	32 20.0							3.°0S, 143.°1E.
		F	6 06 55.0							Depth normal. Near east coast of New Guinea.
101	July 28									
	Husan	e	8 06 30.7							U. S. C. G. S ; 2.°5S, 143.°5E. H=7h52m39s. Near northeast coast of New Guinea.
		F	34 55.5							
102	Aug. 1									
	Zinsen	eP_E	6 28 21.7?						5 02.0?	Nanking ; 34.°5N, 106°E. Destructive at Tien-sui and Si-ho, Kansu, China.
		eS	33 23.7							
		F	57 —							
	Heizyō	eP	6 28 22.5							
		F	56 —							
	Husan	eP	6 28 54.8						5 33.9	
		eS	34 28.7							
		F	54 19.0							
	Keizyō	eP	6 32 42.8							
		F	42 —							
	Taikyū	eP	6 33 33.3						3 04.0	
		S	36 37.3							
		F	51 —							
103	Aug. 7									
	Taikyū	e	2 39 21.1							Off Daitō, Formosa.
		F	42 39.0							
104	Aug. 9									
	Taikyū	eP	16 01 05.3	(minute uncertain.)						Manila ; 19°N, 119.°10′E. Felt at Bangui, Ilocos Norte.
		F	07 —							
105	Aug. 10									
	Taikyū	eL?	1 13 19.2							?
		F	22 —							
106	Aug. 13									
	Taikyū	P	20 08 24.7						4 48.7	Manila ; 8°N, 127°E. H=20h02m36s. Felt in Northern and eastern Mindanao and in southern Leyte.
		S	13 13.4							
		L	16 37.7							
		F	59 —							
	Zinsen	eP_N?	20 08 37.7						4 50.5?	
		eS_N?	13 28.2							
		F	21 04 —							
	Husan	eP	20 08 57.1						3 49.8	
		S	12 46.9							
		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 A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Period s	First motion μ	Duration of P~S m s	Remarks
107	Aug. 14		h m s							
	Taikyū	eP	22 39 39.5							Manila ; Felt in southern and eastern Mindanao.
		F	23 04 22.							
108	Aug. 17									
	Taikyū	eP	14 09 31.2							Distant.
		F	42 07.0							
	Zinsen	e_N	14 16 11.							
		F	14 —							
109	Aug. 22									
	Husan	eP	6 55 01.6						2 53.4	Tōkyō ; 22.°1N, 121.°2E. (r) S off Daitō, Felt over whole Formosa, Destructive in Takao Province.
		P	55 03.1							
		S	57 55.0							
		L	59 29.9							
		M_E	7 00 30.7	+ 151			5.3			
		F	8 35 18.6							
	Taikyū	P	6 55 11.3					N—3.3	2 53.5	
		S	58 04.8					E—1.5		
		L	59 48.3							
		M_N	7 00 40.5	±1929			5.5			
		M_E	00 45.2		+2012		7.6			
		F	8 09 —							
	Zinsen	iP_N	6 55 22.9				4.2	N– 14.8	3 00.5	
		iP_Z	55 23.4				3.8	Z– 9.7?		
		iS_E	58 23.4		— 306		8.4			
		iS_Z	58 29.9			— 41.7	10.1			
		eL_N	59 45.9							
		eL_Z	59 56.1							
		M_{E1}	7 00 45.9		+ 231		7.9			
		M_{E2}	01 11.8		— 306		7.9			
		M_N	02 24.7	+ 396			10.5			
		M_Z	02 21.4			— 923	15.4			
		F	8 27 —							
	Keizyō	iP_{NE}	6 55 25.1					N— 10	3 02.2	
		iS_{NE}	58 27.3					E— 6		
		L_{NE}	7 00 05.7							
		M_N	01 16.6	— 90			5.6			
		M_E	01 17.2		— 250		7.6			
		F	8 14 —							
	Heizyō	P	6 55 40.7						3 23.7	
		S	59 04.4							
		L	7 00 34.4							
		M_N	02 11.0							
		C	08 55.4							
		F	29 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
110	Aug. 22									
	Husan	P	11 12 45.9						2 48.4	After shock of No. 109.
		eS	15 34.3							22.°2N, 121.°1E.
		eL	17 47.3							
		F	34 19.0							
	Taikyū	P	11 12 52.7						2 53.6	
		eS	15 46.3							
		eL	17 21.9							
		F	35 —							
	Zinsen	eP_N	11 13 02.4						3 00.3?	
		eS_N?	16 02.7							
		F	33 —							
	Keizyō	eP_{NE}	11 13 05.3						3 02.8	
		eS_E	16 08.1							
		eL_{NE}	18 25.7							
		F	37 —							
111	Aug. 23									
	Zinsen	eP_N	21 20 09.3						6 27.5	J. S. A ; 5.°8N, 95.°4E. H=21h12m19s. Depth=90km. U. G. E. G. I ; 7°N, 94°E. H=21h12m14s. SE of Nicobar Island. Destructive in North Sumatra, many victims. damges important.
		i_{NE}	20 12.8	+ 6.3	+ 5.4		3.3, 3.3			
		iS_N	26 36.8							
		eL_N	34 36.9							
		M_N	36 59.3	+ 455			17.5			
		M_E	41 09.9		± 306		14.5			
		M_Z	41 04.2			— 589	15.2			
		F	23 34 —							
	Husan	iP_E	21 20 13.4					E +3.8	6 20.6	Batavia ; Destructive in Atjeh. N. Sumatra.
		?	22 01.5							
		S	26 34.0							
		?	30 11.0							
		L	33 07.6							
		F	23 01 20.9							
	Keizyō	iP_{NE}	21 20 13.6					N +2	6 24.0	
		S_{NE}	26 37.6					E +3		
		iSR_{IE}	30 03.4							
		eL_{NE}	33 30.6							
		M_N	40 35.8	+ 160			12.8			
		M_E	41 20.4		— 160		12.7			
		F	22 51 —							
	Taikyū	iP	21 20 13.7					N +3.3	6 28.0	
		PP	21 59.9					E +4.6		
		iS	26 41.7							
		ScS?	30 07.5							
		L	33 12.5							
		M_N	38 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 A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		M_E	42 21.7		+ 171		14.3			
		F	22 28 30.							
	Heizyō	P	21 20 17.9						6 27.0	
		S	26 44.9							
		i	30 11.9							
		eL_N	33 17.9							
		M_N	40 35.9	— 14			18.			
		F	22 07 —							
112	Sept. 2									
	Heizyō	eP_{NE}	2 17 18.3						24.3	W off Kōkaidō, Tyōsen 38.°3N, 123.°2E.
		iS_{NE}	17 42.6							
		F	24 —							
	Keizyō	eP_{NE}	2 17 33.5						26.8	
		eS_{NE}	18 00.3							
		F	20 —							
	Zinsen	eP_N	2 17 37.7						24.4	
		eS_N	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	iP_{NE}	2 44 27.2					N —	24.6	W off Kōkaidō, Tyōsen. 38.°3N, 123.°2E. Felt at Dairen, Keizyō.
		iS_{NE}	44 51.8					E —		
		F	54 —							
	Zinsen	eP_E	2 44 38.3						33.2	
		eS_N	45 11.5							
		M_N	45 12.9	— 12			1.9			
		F	47 30.							
	Keizyō	eP_{NE}	2 44 42.3						28.0	
		iS_N	45 10.3							
		eS_E	45 14.4							
		F	49 03.0							
	Taikyū	eS?	2 46 16.8							
		F	50 30.							
	Husan	eS?	2 46 40.4							
		e	46 52.6							
		F	48 47.2							

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
114	Sept. 2									
	Heizyō	iP_{NE}	8 11 44.5					N —	24.4	W off Kōkaidō.
		iS_{NE}	12 08.9					E —		38.°3N, 123.°2E.
		F	15 —							
	Zinsen	eP_N	8 11 50.6						37.1	
		eS_N	12 27.7							
		F	13 30.							
	Keizyō	eP_{NE}	8 12 14.4						18.6	
		eS_{NE}	12 33.0							
		F	16 —							
	Taikyū	eP	8 12 14.8							
		eL	17 09.8							
		e	22 45.8							
		e	27 09.8							
		F	58 40.							
	Husan	eS	8 13 58.8							
		e	14 09.8							
		F	15 08.2							
115	Sept. 2									
	Keizyō	eP_{NE}	9 20 10.8						4 00.0	NE off the Etorō Island.
		eS_{NE}	24 10.8							
		F	33 —							
	Husan	e	9 20 12.7							
		?	24 26.7							
		F	24 33.7							
	Zinsen	eP_N	9 20 13.9						3 32.5	
		eS_N	23 46.4							
		F	29 —							
116	Sept. 4									
	Husan	P	8 12 24.8						4 08.9	SE off the Hatizyō Island.
		S	16 33.7							
		F	9 09 37.3							
	Keizyō	eP_E	8 12 57.0						4 30.2	
		eS_E	17 27.2							
		F	51 —							
	Zinsen	eP_E	8 13 00.9					E +	2 49.5	
		eS_N	15 50.4							
		eL_N	17 55.8							
		F	50 —							
117	Sept. 7									

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Period s	First motion	Duration of P~S m s	Remarks
	Keizyō	ePE	h m s 7 59 01.2						1 24.4	Region of North China.
		eSE	00 25.6							
		F	07 —							
118	Sept. 8									Off the Okinawa Island.
		e	14 17 47.1							
		F	22 47.1							
119	Sept. 12									
	Taikyū	eP	18 01 58.1						3 15.2	Tōkyō ; 24.°4N, 120.°85E. Vicinity of Taiko, Sintikusyū, Formosa.
		eS	05 13.3							
		F	30 —							
	Zinsen	ePN	18 02 22.7						4 05.2	
		$eSNE$	06 27.9							
		F	24 —							
	Keizyō	$ePNE$	18 02 26.8						3 52.2	
		$eSNE$	06 19.0							
		$eLNE$	10 01.0							
		F	26 —							
	Husan	eP	18 04 47.4						1 51.8	
		eS	06 39.2							
		F	21 54.4							
	Heizyō	eP?	18 05 03.5							
		i	07 05.0							
		F	19 —							
120	Sept. 16									
	Keizyō	ePE	1 53 26.7						3 11.6	?
		eSE	56 38.3							
		F	2 06 —							
121	Sept. 18									
	Husan	P	18 41 14.1						3 54.4	SE off the Hatizyō Island.
		S	45 08.5							
		F	31 57.0							
	Taikyū	e	18 41 26.3							
		F	21 08.5							
	Keizyō	$ePNE$	18 41 48.2						3 05.6	
		eSE	44 53.8							
		eLE	47 02.2							
		F	19 23 —							
	Zinsen	$iPEN$	18 41 54.5						4 22.9	
		$eSNE$	46 17.4							
		F	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
				A_N	A_E	A_Z				
			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=1h01m58s Depth=about 100 km.
		S	16 18.9							
		L	19 39.2							
		M_E	26 55.4		+ 104		17.2			
		M_N	26 55.4	— 93			16.8			
		C	37 43.1							
		F	2 42 53.0							
	Husan	P	1 09 41.4						6 33.8	
		S	16 15.2							
		L	21 28.7							
		M_E	26 21.7		—1071		18.9			
		M_N	26 59.3	+ 1357			17.8			
		F	3 06 57.0							
	Zinsen	eP_{NE}	1 09 45.4						7 20.5	
		eS_{NE}	17 05.9							
		eL_N	20 16.3							
		M_{E1}	27 06.0		—2025		20.2			
		M_{N1}	29 14.0	+ 669			13.8			
		M_{E2}	29 16.6		— 653		13.1			
		M_{N2}	30 27.2	+ 900			15.4			
		M_Z	30 04.7			+ 473	13.6			
		F	2 46 —							
	Keizyō	eP_{NE}	1 09 48.3						5 38.2	
		eS_{NE}	15 26.5							
		eL_{NE}	21 20.9							
		M_{1E}	26 01.7		+ 1300		20.4			
		M_{1N}	26 02.3	— 860			19.4			
		M_{2N}	28 04.7	— 390			12.4			
		M_{2E}	28 17.9		+ 600		13.6			
		F	3 01 —							
	Heizyō	eP_{NE}	1 09 49.3						6 31.5	
		iS_E	16 20.8							
		L_N	22 59.8							
		M_E	28 19.9		+ 146		15.3			
		M_N	33 11.8	+ 98			12.3			
		F	2 04 —							
123	Sept. 19									
	Taikyū	eP?	6 38 23.5						6 29.0?	Batavia ; Felt in Atieh and Tapanoeli, N. Sumatra.
		eS?	44 52.5							
		eL	51 06.0							
		F	21 46.0							
	Zinsen	e_N	6 40 —							
		eL?	52 —							
		F	7 21 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
	Husan	eP?	6 40 03.1						8 09.7	
		eS?	43 12.8							
		F	7 21 57.0							
124	Sept. 24									
	Husan	e	21 01 08.3							Nanking ; Shaking several cities around Kiang-an and Tse-liu-tsin, Szechwan, China.
		F	09 57.0							
	Taikyū	eP	21 01 10.3						3 00.8	
		eS	04 11.1							
		F	11 —							
	Zinsen	eP_N?	21 01 31.5						1 56.1?	
		eS_N?	03 27.6							
		F	12 —							
	Keizyō	eS_{NE}	21 03 55.3							
		F	14 —							
125	Sept. 25									
	Taikyū	e	13 20 06.6							U. S. C. G. S ; 43.°5N, 128.°2W. H=12h53m06s.
		F	49 10.0							
126	Oct. 3									
	Husan	eP	21 54 46.0						4 01.9	Phulien ; 2°N, 124°E. Celebes Sea.
		eS	58 47.9							
		L	22 02 20.4							Batavia ; Felt in N. Celebes.
		F	48 00.5							
	Taikyū	eP	21 57 01.4						5 27.5	
		S	22 02 28.9							
		F	44 26.3							
	Zinsen	eP_N	21 57 01.9						5 21.5	
		ePR_{2N}	58 23.4							
		eS_N	22 02 23.4							
		F	45 —							
	Keizyō	eP_N	21 57 20.3						5 34.4	
		eS_{NE}	22 02 54.7							
		F	41 —							
127	Oct. 5									
	Zinsen	eP_{NE}?	7 13 35.							SE off the Hatizyō Island.
		eI_N?	18 50.							
		F	32 —							
128	Oct. 5									
	Heizyō	eP	9 37 02.3							J. S. A ; 3.°0N, 126.°4E. H=9h44m34s. Depth=100km.
		F	10 11 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
	Husan	P	9 51 02.0						5 18.0	U. S. C. G. S ; 1°N, 127°E.
		S	56 20.0							
		F	10 32 57.1							U. G. E. G. I ; Region of Sangi Island, Celebes.
	Taikyū	eP	9 51 09.5						5 20.6	Batavia ; Felt in N. Moluccas and N. Celebes.
		i_N	51 10.3							
		S	56 30.0							
		i	10 01 33.2							
		eL	02 25.7							
		F	46 —							
	Zinsen	iP_N	9 51 12.5				10.2	N 3.3	5 30.4	
		iP_E	51 12.5					E —		
		iP_Z	51 13.8				8.9	Z +2.7		
		i_N	52 13.5							
		iS_N	56 42.9	+ 14.4			15.0			
		iS_E	56 48.8		— 10.0		10.0			
		eL_E	10 00 13.6							
		F	11 03 —							
	Keizyō	iP_{NE}	9 51 21.0					N +3	5 32.6	
		iS_{NE}	56 53.6					E −2		
		eL_{NE}	10 02 39.6							
		F	25 —							
129	Oct. 10									
	Taikyū	e?	3 19 13.4							Manila ; Felt at Davao with intensity II.
		F	33 —							
	Keizyō	eP_E?	3 19 20.9						6 37.4	
		eS_E?	25 58.3							
		F	36 —							
130	Oct. 15									
	Taikyū	eP	4 21 01.9						59.2	Tōkyō ; 33.°8N, 132.°8E. Vicinity of the City of Matuyama.
		S	22 01.1							
		F	25 19.6							
131	Oct. 18									
	Heizyō	P?	16 37 22.4							Middle part of the Japan Sea ?
		L	37 16.4							
		F	52 —							
	Zinsen	eP_{NE}	16 37 57.7						1 31.8	
		eS_{NEZ}	39 29.5							
		M_E	40 16.0		+ 17		3.9			
		F	56 —							
	Keizyō	eP_{NE}	16 37 54.8						1 52.8	
		eS_{NE}	39 47.6							
		M_E	40 13.1		+ 21		3.8			

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

No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		M_N	40 20.8	— 7			3.0			
		F	56 —							
	Taikyū	eP	16 40 49.0						1 48.2	
		i_E	41 14.6							
		S	42 37.2							
		F	58 —							
	Husan	eP	16 41 29.5						1 34.3	
		eS	43 03.8							
		F	50 24.0							
132	Oct. 19									
	Husan	eS?	12 11 33.7							Batavia ; Felt in N. Moluccas.
		F	15 19.0							
	Taikyū	P	12 11 39.9						5 49.6	
		PP	13 14.0							
		S	17 29.5							
		L	23 50.0							
		F	56 06.0							
	Keizyō	iP_N	12 11 53.2						5 59.3	
		ePP_N	13 22.7							
		eS_{NE}	17 52.5							
		F	35 —							
	Zinsen	iP_N	12 11 56.4						5 27.5	
		eS_N	17 23.9							
		F	52 —							
133	Oct. 19									
	Taikyū	P_E	19 57 24.8						1 09.9	Tōkyō ; 36.°5N, 135.°8E. (r) Off the mouth of the River of Kuzuryū, Hukui Prefecture. Deep focus.
		S_E	58 34.7							
		F	20 04 57.5							
	Keizyō	iP_E	19 57 39.0					E +1	1 16.9	
		iS_{NE}	58 55.9							
		M_N	58 59.8	— 7			3.0			
		M_E	59 01.3		— 7		3.6			
		F	20 05 —							
	Zinsen	iP_E	19 57 40.8					E +1.1	1 22.9	
		iP_Z	57 41.6					Z -0.9		
		iS_N	59 03.7	+ 5.6			4.1			
		iS_E	59 04.7		+ 6.0		3.7			
		iS_Z	59 04.8			+ 2.7	4.5			
		F	20 03 —							
134	Oct. 20									
	Taikyū	eP	14 27 52.6							Tōkyō ; 35.°0N, 138.°2E.

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		F	38 —							(m) Middle part of Sita-gun, Sizuoka Prefecture.
135	Oct. 22									
	Husan	?	23 53 30.4							Distant ?
		F	24 06 05.5							
136	Oct. 23									
	Zinsen	ePNEZ	6 33 44.9						7 41.3	J. S. A ; 60.°8N, 149.°4W. H=6h24m27s. Depth=25 km. U. S. C. G. S ; 61.°1N, 149.°2W. U. G E. G. I ; 61°N, 145°W.
		ePR|N	35 40.6							
		eSNE	41 26.2							
		eLN	50 —							
		F	7 38 —							
	Keizyō	ePNE	6 33 45.1						7 52.4	Felt at Alaska
		eSNE	41 37.5							
		eLNE	54 03.5							
		L	7 27 —							
	Taikyū	eP	6 33 51.6							
		F	7 38 —							
	Heizyō	ePE	6 33 56.2						7 51.0	
		eSE	41 47.2							
		L	50 26.2							
		F	7 23 —							
137	Oct. 23									
	Husan	?	8 49 27.8							?
		F	9 01 04.4							
138	Oct. 24									
	Husan	e	0 11 56.5							?
		F	25 02.0							
139	Oct. 24									
	Taikyū	e	16 03 46.3							SE off the Hatizyō Island.
		F	29 30.							
140	Oct. 25									
	Heizyō	eP	15 29 07.9?						2 43.5	Tōkyō ; 34.°4N, 140.°1E. (r) SSE off the cape of Nozima, Tiba Prefecture. Depth=80 km.
		eS	31 51.4							
		L	33 21.4							
		F	50 —							
	Husan	eP	15 32 39.6						2 11.3	
		eS	34 50.9							
		F	39 56.3							
	Taikyū	iP	15 32 43.3					N +3	1 55.8	
		eS	34 39.1					E –33		
		F	54 12.2							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	p	μ	μ	s	μ	m s	
	Keizyō	$ePNE$	15 33 04.1						2 11.0	
		$eSNE$	35 15.1							
		F	44 —							
	Zinsen	ePE	15 33 09.						2 10.	
		eSN	35 19.							
		F	48 —							
141	Oct. 26									
	Taikyū	e	9 10 47.6							Vicinity of the Kutinoerabu Island, Kagosima Prefecture.
		F	14 58.8							
	Zinsen	eNE	9 11 45.3							
		F	13 —							
	Keizyō	$ePNE$	9 11 54.9							
		F	16 —							
142	Oct. 26									
	Husan	P	9 35 04.4						1 13.5	Tōkyō ; 34.°5N, 136.°3E. (r) Middle part of Mie Prefecture. Depth=340km.
		S	36 17.9							
		F	41 54.3							
	Taikyū	iP	9 35 10.1						1 16.8	
		iS	36 26.9							
		F	48 00.0							
	Keizyō	$ePNE$	9 35 29.0						1 34.8	
		$iSNE$	37 03.8							
		F	45 —							
	Zinsen	$iPENZ$	9 35 31.6					N —	1 35.8	
		$iSNEZ$	37 07.4					E +		
		F	46 —					Z —		
	Heizyō	iPE	9 35 47.5					E +	1 48.6	
		iSE	37 36.1							
		F	51 —							
143	Oct. 26									
	Husan	eP	10 04 07.8						1 06.1	S off the cape of Sata, Kagosima Prefecture.
		eS	05 13.9							
		F	10 54.2							
	Taikyū	ePN	10 04 13.8						1 15.9	
		eSN	05 29.7							
		F	14 59.0							
	Keizyō	ePN?	10 04 46.8						1 41.6	
		$eSNE$	06 28.4							
		F	15 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
	Zinsen	eSEN	10 06 36.7							
		F	10 —							
144	Oct. 26									
	Zinsen	eN	19 48 47.							Phulien ; 2°N, 98°E. Batavia ; Felt in N. and W. Sumatra. (Medan ; ip 19h33m00s).
		eLN	55 06.							
		F	20 20 —							
	Taikyū	e	19 49 18.0							
		F	20 24 10.0							
	Heizyō	i	19 50 11.1							
		L	55 50.1							
		F	20 18 —							
	Husan	e	19 50 21.1							
		F	20 16 52.2							
	Keizyo	eP'E?	19 50 24.7						3 24.4?	
		eSE	53 49.1							
		eLNE	56 09.7							
		ME	57 53.9		— 43		16.0			
		F	20 21 —							
145	Oct. 29									
	Taikyū	PE	18 44 23.4						3 29.8	U. S. C. G. S ; 12°N, 146°E. Phulien ; 12°N, 145.°1E. Meriana Isand. Manila ; Felt very strongly in Guam. Some damage to buildings.
		eSE	47 53.2							
		eL	56 07.2							
		F	19 45 18.2							
	Husan	P	18 44 23.8						4 36.1	
		S	48 59.9							
		F	19 07 39.8							
	Keizyō	eP'NE	18 44 44.6						6 31.8	
		eSE	51 16.4							
		eSR1E	54 36.6							
		eLE	59 27.8							
		F	20 11 —							
	Zinsen	eP'NE	18 44 49.3						4 50.3	
		eSN	49 39.6							
		F	20 50 —							
146	Nov. 1									
	Keizyō	eP'NE	17 59 47.1						39.0	Middle part of Yellow Sea ?
		iSE	18 00 26.1							
		SN	00 26.5							
		F	02 —							
	Zinsen	iSNE	18 00 18.3							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N μ	Amplitude A_E μ	Amplitude A_Z μ	Period s	First motion	Duration of P~S m s	Remarks
		F	h m s 01 00.							
	Taikyū	eP	18 00 25.6							
		F	02 36.6							
147	Nov. 2									
	Zinsen	ePZ	15 02 45.4					Z +	4 14.9	Nanking ; 57.°N, 152.°5E. Kurile Islands.
		iPZ	02 48.0							U. G. E. G. I ; 50°N, 156°E.
		iSZ	07 00.3							
		eLZ	09 46.5							
		MZ	11 52.6			+ 160	15.0			
		F	Driving clock stopped							
	Keizyō	iPNE	15 02 45.5					N –1	4 00.6	
		eSNE	06 46.1					E +1		
		eLNE	09 13.1							
		MN	11 46.4	+ 53			14.4			
		ME	12 44.6		± 160		16.0			
		F	16 37 —							
	Heizyō	iPNE	15 02 46.2					N +	4 05.7	
		iSNE	06 51.9					E —		
		eLE	10 18.9							
		F	58 —							
	Taikyū	P	15 02 48.7						4 02.3	
		S	06 51.0							
		L	09 25.1							
		F	16 08 33.7							
	Husan	iP	15 02 57.9						4 01.8	
		S	06 59.7							
		L	09 41.9							
		F	16 45 21.1							
148	Nov. 2									
	Husan	iPEN	20 48 34.8					N –9	1 55.1	Tōkyō ; 38.°4N, 142.°0E.
		S	50 29.9					E –45		(r) Strong earthquake off Kinkasan, Miyagi Prefecture, Tolerably damages in Miyagi Prefecture. Accompanied by many after shocks.
		MN	51 01.0							
		ME	53 22.9							
		F	23 01 20.5							
	Taikyū	iP	20 48 39.7					N– 18.3	2 01.0	
		iS	50 40.7					E– 55.1		
		L	51 36.6							
		ME	52 32.2		— 121		18.4			
		MN	54 17.2	— 112			6.9			
		F	22 39 55.							
	Keizyō	iPE	20 48 50.1					E –3	2 15.0	
		iSN	51 05.1							

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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	
		M_{E_1}	53 14.5		− 470		15.0			
		M_N	53 15.2	+ 330			12.4			
		M_{E_2}	57 39.4		+ 310		11.0			
		F	25 57 —							
	Zinsen	iP_N	20 48 54.1					N —	2 10.9	
		iS_N	51 05.0					E –10.		
		M_N	51 45.4	— 200			8.8			
		F	Recording sheet slipped out.							
	Heizyo	iP_{NE}	20 49 00.4					N +?	3 06.0	
		iS_E	52 06.4					E–13.0		
		M_E	53 27.4		+ 13		18.6			
		F	22 07 —							
149	Nov. 3									
	Husan	e	4 54 28.3							Distant.
		F	20 18.5							
	Keizyō	eP_{NE}	4 55 21.4						2 29.8	
		eS_E	57 51.2							
		F	5 13 —							
150	Nov. 9									
	Zinsen	e?	6 10 17.						2 20. ?	SE off Yakuzima, Kagosima Prefecture.
		eS_E?	12 37.							
		F	15 —							
	Keizyō	eP_{NE}	6 12 07.7						34.6	?
		eS_{NE}	12 42.3							
		F	20 —							
151	Nov. 12									
	Keizyō	eP_{NE}	2 21 25.9						4 37.4	Tōkyō ; Marianne Islands.
		eS_{NE}	26 03.3							
		eL_{NE}	29 17.3							
		F	36 —							
152	Nov. 12									
	Keizyō	eP_{NE}	8 34 27.2						4 41.6	Manila ; Felt in Guam, Deeper than normal.
		eS_{NE}	39 08.8							
		eL_{NE}	41 28.4							
		F	56 —							
	Zinsen	e	8 35 —							
		F	54 —							
153	Nov. 12									
	Heizyō	eP	20 08 46.3						3 18.0	Tōkyō ; 45.°N, 149°E. (r) Vicinity of Etorō, Kurile Islands.
		iS_{NE}	12 04.3							
		F	26 —							

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No.	Date and Station	Phase	G. M. T.	Amplitude A_N	Amplitude A_E	Amplitude A_Z	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
	Zinsen	ePE	20 08 48.1						3 19.6	Depth=200km.?
		iPE	08 52.6							
		$iSEN$	12 07.7							
		F	19 —							
	Keizyō	$ePNE$	20 08 48.2						3 12.4	
		$eSNE$	12 00.6							
		F	24 —							
	Husan	P	20 08 50.0						3 13.4	
		S	12 03.4							
		F	25 26.7							
154	Nov. 13									
	Keizyō	$ePNE$	12 37 41.2						5 22.0	J. S. A; 56.°7N, 162.°3E. H=12h31m37s. Depth=40—50km.
		ePR_1NE	38 51.2							
		$eSNE$	43 03.2							
		$eLNE$	47 09.2							U. S. C. G. S; 57.°N, 163.°E.
		M_N	50 54.8	— 230			13.6			
		M_E	54 59.6		— 160		12.8			U. G. E. G. I; 56.°N, 163.°E.
		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.°1N, 142.°5E. SE off Kinkasan, Miyagi Prefecture.
		eS	04 58.9							
		F	21 19.7							
	Keizyō	ePE	1 01 02.8						3 33.8	

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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	
		eS$_E$	04 36.6							
		eL$_E$	06 09.8							
		F	13 —							
156	Nov. 14									
	Husan	eP	1 26 03.1						1 08.6	Vicinity of Tanega-sima.
		eS	27 11.7							
		F	35 19.6							
	Keizyō	eP$_{NE}$	1 28 29.2							
		F	36 —							
	Zinsen	eS$_{NE}$	1 29 01.0							
		F	35 —							
157	Nov. 16									
	Husan	eP	23 33 56.1						2 52.3	Chiufeng; 27°N, 142°E.
		eS	36 48.4							
		F	24 03 03.5							
	Keizyō	eP$_{NE}$	23 34 26.0						3 26.0	
		eS$_{NE}$	37 52.0							
		F	24 05 —							
	Zinsen	eP$_{NE}$	23 34 34.0						3 12.3	
		eS$_N$	37 46.3							
		F	59 —							
158	Nov. 19									
	Keizyō	eP$_E$?	22 19 21.4							Distant.
		F	39 —							
159	Nov. 21									
	Husan	eS	21 50 39.7							Tōkyō; 38.°0N, 141.°6E.
		F	22 00 38.2							(m) SE off Kinka-san.
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$_N$	22 53 59.5						5 19.8	Distant.
		eS$_E$	59 19.3							
		eL$_E$	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 AN	Amplitude AE	Amplitude Az	Period	First motion	Duration of P~S	Remarks
			h m s	μ	μ	μ	s	μ	m s	
		S	58 40.0							Probably near Baguio.
		F	24 26 49.4							
	Keizyō	ePE	23 59 18.3							
		F	24 18 —							
163	Dec. 1									
	Husan	iP	6 10 29.4					N +2	48.0	Tōkyō ; 30.°7N, 129.°0E. (r) WNW off Yakuzima, Kagosima Prefecture, Depth=270km.
		S	11 17.4					E +4		
		MN	11 42.5	+ 167			5.8			
		ME	11 42.5		− 253		6.1			
		?	17 57.8							
		F	40 48.1							
	Zinsen	iPZ	6 11 01.0					N +2.3	1 13.1	
		iPE	11 01.6					E −1.0		
		iPN	11 01.6					Z +3.2		
		iSZ	12 23.7							
		iSEN	12 24.7			± 35	4.8			
		MZ	12 27.3				5.8			
		ME1	12 29.3		− 104		5.3			
		MN1	12 30.3	− 37			7.2			
		ME2	13 19.0		± 70		7.2			
		MN2	13 21.4	− 53						
		ScSEN	23 53.8							
		F	32 —							
	Keizyō	iPNE	6 11 01.9					N +4	1 17.2	
		iSNE	12 19.1					E −2		
		ME1	12 28.8		− 77		7.2			
		ME2	13 21.8		+ 47		5.2			
		MN	13 31.8	− 30			6.0			
		ePPE	23 53.1							
		F	50 —							
	Heizyō	ePN	6 11 21.2						1 42.0	
		iSNE	13 03.2							
		L	14 09.2							
		ME	14 15.8							
		F	35 —							
164	Dec. 7									
	Husan	e	21 30 12.3							Vicinity of Naze.
		F	39 13.3							
	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	
	Keizyō	ePE?	10 36 36.8							at Ormoc, Leyte. Also at Hinundayan, Leyte.
		F	52 —							
166	Dec. 13									
	Husan	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	41 07.8							
		F	22 26 —							
	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							
		eL_{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 —							
	Heizyō	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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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	
170	Dec. 27									
	Keizyō	ePE	13 49 16.5							Ditto.
		F	59 —							
171	Dec. 28									
	Husan	e	17 24 27.1							Ditto 34.°4N, 139.°2E.
		F	41 32.0							
	Keizyō	ePE	17 25 01.0							
		F	41 —							
172	Dec. 29									
	Husan	P	14 56 11.1						6 22.2	Manila ; 7°S, 147°E. Chiufeng ; 3.°5S, 156°E.
		S	15 02 33.3							
		F	16 00 26.2							
	Keizyō	ePNE	14 56 32.9						6 54.8	
		eSNE	03 27.7							
		eLNE	07 14.5							
		F	51 —							
							2.9	Z +5.8		
	Zinsen	iPz	14 56 34.5							
		iPPz	57 31.5			— 11.6	2.9			
		eSz	15 03 29.5							
		F	09 —							
	Heizyō	ePE	14 56 43.0							
		F	15 18 —							
173	Dec. 30									
	Husan	eP	4 10 27.4						1 13.6	Vicinity of Tanegasima, Kagosima Prefecture.
		S	11 41.0							
		F	30 23.9							
	Zinsen	ePN?	4 11 06.						2 36.?	
		eS?	13 42.							
		F	27 —							
	Keizyō	ePE	4 12 18.1						3 00.4	
		eSNE	15 18.5							
		F	29 —							

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