International Seismological Centre

ANNUAL REPORT

OF THE

METEOROLOGICAL

AND THE

SEISMOLOGICAL OBSERVATIONS

MADE AT THE

INTERNATIONAL LATITUDE OBSERVATORY

OF MIZUSAWA

FOR

THE YEAR 1935.

LATITUDE 39° 8′ N., LONGITUDE 141° 8′ E.,

HEIGHT ABOVE MEAN SEA LEVEL 61 METRES.

PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY

OF MIZUSAWA.

1936.

International Seismological Centre

The present report gives the results of the meteorological and seismological observations made at this observatory during the year 1935. No alteration has been made in the nature and methods of observation. The observations and the calculations were made by Messrs. M. Uchida, S. Satô, and I. Kumagai, under the superintendence of Mr. T. Ikeda.

The followings are to be noted with respect to the meteorological observations:

Hours of observation—Japanese Central Standard Time (i.e. mean time of the meridian 9h east from Greenwich) is adopted.

Air Pressure.—The barometric readings in millimetres are reduced to the freezing point of water, the corrections to sea level and to standard gravity are given at the bottom of the page for each month.

Air and *Earth Temperatures.*—The degrees are given in Centigrade.

Wind.—The velocity is expressed in metres per second. The direction was observed relative to the sixteen points of the compass.

Cloud.—The amount is estimated by the scale 0-10, the forms are those of the *International classification*, and the direction of motion is indicated relative to the sixteen points of the compass.

Tension of Water Vapour.—is given in millimetres.

Relative Humidity.—is given in percentages.

Precipitation.—The amount is given in millimetres.

Clear and *Cloudy Days.*—The amount of cloud is less than 2 exclusive, for the former; and more than 8 inclusive, for the latter.

Duration of Sunshine.—is recorded by a Jordan sunshine-recorder.

Amount of Evaporation.—is given in millimetres, for each day,—that is from 10h of the day in question to 10h of the next day, according to the instruction of the Central Meteorological Observatory in Tôkyô.

The heights of the meteorological instruments are as follows,

Barometer.—63.1 m above sea level.

Air temperature thermometer.—1.3 m above the ground.

Anemometer.—15.4 m above the ground.

Wind vane—16.6 m above the ground.

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* Note:—The wind velocity is measured by the Robinson anemometer. Since January first of the year 1925 a new factor for this instrument has been used. The ratio of the new factor to the old one is 0.7/1.0.

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In recording the meteorological phenomena the following symbols are used :—

●	Rain	∨	Silver thaw	≢	Oceanic noise
✳	Snow	~	Glazed frost	∞	Yellow dust
⌈	Thunder storm	⊟	Ice	0	Unusual visibility
⊤	Thunder without lightning	⊹	Snow drift	ϒ	Red sky
≺	Lightning without thunder	←	Ice crystals	C	Cirrus
△	Graupel	◶	Earthquake	CS	Cirro-stratus
▲	Hail	◑	Solar corona	CK	Cirro-Cumulus
≡	Mist, Fog	⊕	Solar halo	KC	Alto-Cumulus
⊔	Hoar frost	⋓	Lunar Corona	SC	Alto-stratus
⊥	Ice column in ground	⊍	Lunar halo	SK	Strato-cumulus
⌓	Dew	⸝	Gale	N	Nimbus
⊔	Frozen dew	◠	Rainbow	K	Cumulus
◮	Frozen rain	⋓	Aurora	KN	Cumulo-nimbus
≈	Wave cloud	⍋	Zodiacal light	S	Stratus
⊟	Snow lying	∞	Haze		

The *descriptions* of the *meteorological instruments* are found in the annual reports for the years 1902, 1904, 1905, 1910, and 1916.

The *seismological instruments* in use are *two Omori's horizontal pendulums*, of the same type as that described in p. 8 of No. 5, "Publication of the Earthquake Investigation Committee in Foreign Language," one serving to register the EW component, and the other the NS component, of seismological movements.

	EW Component Apparatus		NS Component Apparatus	
Period of free oscillation	16	seconds	36	seconds
Multiplication of the pointer	100	times	20	times
Weight of heavy cylinder	45.0	kilograms	17.6	kilograms
Horizontal distance of the centre of the cylinder from the point of support.	20	Centimetres	75	Centimetres
Vertical distance between the points of support and suspension.	104	Centimetres	104	Centimetres

July, 1936

H. KIMURA, *Rigakuhakushi*
Director of the International Latitude Observatory in Mizusawa.

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SEISMOLOGICAL OBSERVATIONS

Remarks :—

1. The intensities of the earthquakes are divided into the following seven classes according to the Central Meteorological Observatory of Japan.

Not felt		0.
Felt	1. . . .	slight
	2. . . .	moderate
	3. . . .	rather strong
	4. . . .	strong
	5. . . .	very strong
	6. . . .	disastrous

2. The approximate epicentres of the chief earthquakes are given, which are extracted from the "Kisyô-Yôran" issued monthly by the Central Meteorological Observatory of Japan.

3. The time adopted in the Seismological observations is Greenwich Civil Time.

4. Symbols and notations.

i	Sudden beginning of the motion.
e	Gradual beginning of the motion.
?	Doubtful phase.
✳	Out of order of the instrument.
⊕	Out of the range of the instrument.

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No.	Date 1935	P E	P W	P N	P S	S E	S W	S N	S S	L E	L W	L N	L S	Maximum Range of Motion E W	Maximum Range of Motion N S	Duration of Total Earthquake	Intensity	Approximate Epicenter
		h m s	h m s	m s	m s	m s	m s	m s	m s	m s	m s	m s	m s	mm	mm	m		
1	Jan. 1	e13 07 06		–	–	e08	11	–	–	–	–	–	–	0.02	0.03	6.9	0	
2	1	?13 31 14		?31	49	?38	30	?40	11	–	–	–	–	–	–	23.1	0	
3	2	1		–	–	?59	27	–	–	–	–	–	–	0.01	–	2.8	0	
4	3	? 1 58 17		?58	39	?64	35	–	–	–	–	?72	12	–	0.10	34.6	0	
5	3	e14 55 52		e55	52	i56	34	e56	33	–	–	–	–	0.03	0.03	5.1	0	λ=139°.9E, φ=35°.7N
6	4	i18 43 19		e43	18	i43	36	i43	36	–	–	–	–	0.06	0.05	3.6	0	E off Kuzi
7	8	e18 34 57		–	–	i35	36	e35	32	–	–	–	–	0.02	0.02	5.6	0	
8	8	18		–	–	e41	56	–	–	–	–	–	–	–	–	2.1	0	
9	9	e 9 51 09		–	–	e51	38	e51	30	–	–	–	–	0.01	–	5.5	0	
10	10	3		–	–	i55	07	e55	09	–	–	–	–	0.01	–	1.8	0	
11	15	11		–	–	e34	36	–	–	–	–	–	–	0.02	–	2.9	0	
12	18	?17 18 21		?18	37	?22	14	?21	57	–	–	–	–	0.01	0.04	12.3	0	
13	18	e22 44 34		e44	35	i45	21	e45	23	–	–	–	–	0.05	0.05	5.8	0	λ=139°.7E, φ=35°.6N
14	19	i11 15 09		e15	07	i15	40	i15	37	–	–	–	–	0.31	0.22	8.6	0	λ=143°.7E, φ=41°.0N
15	19	e19 11 51		–	–	e12	22	–	–	–	–	–	–	0.01	–	2.2	0	
16	20	i16 54 54		i54	54	i55	05	i55	05	–	–	–	–	0.12	0.11	5.1	1	λ=141°.6E, φ=38°.7N
17	22	e12 24 35		–	–	e25	27	–	–	–	–	–	–	–	–	5.8	0	
18	22	e14 09 42		–	–	e10	27	–	–	–	–	–	–	0.01	–	4.2	0	
19	22	e14 27 43		–	–	e28	33	–	–	–	–	–	–	0.01	–	5.0	0	
20	23	e 7 31 08		e30	59	?36	46	?36	51	?41	47	?42	12	–	–	41.5	0	
21	25	e 1 51 53		–	–	e52	21	–	–	–	–	–	–	0.01	–	3.8	0	
22	25	e 3 34 54		e34	57	i35	25	e35	24	–	–	–	–	0.03	0.02	6.4	0	E off Miyako
23	25	e16 01 25		–	–	i02	40	–	–	–	–	–	–	0.01	0.01	5.1	0	
24	25	e19 19 42		–	–	e20	35	–	–	–	–	–	–	0.01	–	4.1	0	
25	27	e 3 15 06		–	–	e15	56	–	–	–	–	–	–	0.01	–	4.6	0	
26	28	e 9 51 49		–	–	e53	10	e53	10	–	–	–	–	0.01	0.01	8.5	0	
27	29	e 9 55 06		–	–	e55	36	–	–	–	–	–	–	0.01	–	3.0	0	
28	31	1		–	–	e44	51	–	–	–	–	–	–	–	–	2.3	0	
29	31	17		–	–	e55	41	–	–	–	–	–	–	–	–	2.2	0	
30	Feb. 3	e 1 20 22		–	–	e20	58	–	–	–	–	–	–	0.01	–	4.2	0	
31	4	e21 14 18		–	–	i14	51	e14	51	–	–	–	–	0.02	–	5.3	0	
32	8	e12 15 27		e15	27	i15	51	e15	50	–	–	–	–	0.02	0.02	4.9	0	E off Cape Siriya
33	9	e 5 24 50		–	–	e25	50	–	–	–	–	–	–	0.00	–	5.0	0	
34	9	e19 24 27		e23	29	?28	31	?28	32	–	–	?32	44	–	–	19.8	0	
35	10	i18 31 47		e31	49	i33	32	i33	32	–	–	–	–	0.22	0.11	12.6	0	W off Titizima (deep)
36	10	e20 12 34		–	–	e13	33	–	–	–	–	–	–	0.01	–	6.4	0	
37	11	e 3 52 34		–	–	e53	14	–	–	–	–	–	–	0.01	–	6.6	0	
38	11	e17 20 39		–	–	i21	18	–	–	–	–	–	–	0.01	–	11.0	0	
39	12	e12 04 11		–	–	i04	31	–	–	–	–	–	–	0.01	–	2.3	0	
40	14	i 1 17 58		e17	56	i18	08	e18	09	–	–	–	–	0.03	0.01	2.6	0	
41	14	8		–	–	e37	10	–	–	–	–	–	–	–	–	1.7	0	
42	17	e 5 40 22		–	–	e41	04	–	–	–	–	–	–	–	–	2.5	0	
43	18	14		–	–	e58	01	–	–	–	–	–	–	0.00	–	2.3	0	
44	18	i15 08 14		e08	12	i09	15	e09	14	–	–	–	–	0.03	0.01	5.1	0	λ=144°.5E, φ=42°.6N
45	19	i20 11 20		e11	18	i12	04	e12	02	–	–	–	–	0.37	0.40	15.4	0	λ=140°.6E, φ=35°.7N
46	22	e17 11 40		e11	30	e16	47	e16	39	e22	44	e22	07	0.05	0.24	80.3	0	Aleutian Is.
47	24	e 9 48 34		–	–	e49	12	–	–	–	–	–	–	0.01	–	5.0	0	
48	25	e 3 03 46		–	–	e04	25	e04	25	–	–	–	–	0.01	–	5.2	0	
49	26	e12 55 02		–	–	i55	32	–	–	–	–	–	–	–	–	2.1	0	
50	27	9		–	–	e16	47	–	–	–	–	–	–	0.01	–	4.4	0	
51	28	e 6 53 13		–	–	i53	51	–	–	–	–	–	–	0.02	0.03	5.9	0	
52	Mar. 1	e18 45 54		–	–	e46	32	–	–	–	–	–	–	0.01	–	4.2	0	
53	3	e17 25 08		–	–	e25	44	e25	44	–	–	–	–	0.01	0.01	4.4	0	
54	3	e21 55 00		–	–	i55	12	i55	12	–	–	–	–	0.03	–	3.1	0	
55	4	e 4 05 52		–	–	i06	28	–	–	–	–	–	–	0.01	–	3.7	0	

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No.	Date 1935	P				S				L				Maximum Range of Motion				Duration of Total Earthquake	Intensity	Approximate Epicenter
		E		W		N		S		E		W		N		S				
		h	m	s		m	s			m	s			m	s			mm	mm	m		
56	Mar. 5	*i* 10	28	01		*e* 28	00			*i* 28	26			*e* 28	25			0.07	0.05	6.4	0	ESE off Miyako
57	5	*e* 17	06	23		–	–			*i* 06	55			*e* 06	52			0.02	–	3.5	0	
58	6	0				–	–			*e* 27	04			–	–			0.00	–	1.7	0	
59	7	*e* 17	55	10		–	–			*e* 55	46			–	–			0.01	–	3.6	0	
60	7	3				–	–			*e* 37	33			–	–			0.01	–	2.7	0	
61	7	*i* 10	27	18		*i* 27	18			*i* 27	45			*e* 27	40			0.68	0.48	14.8	0	λ=139°.6E, φ=40°.0N
62	7	*e* 17	28	12		*e* 28	14			*i* 28	39			*e* 28	41			0.03	0.03	3.7	0	λ=139°.6E, φ=37°.4N
63	7	*i* 17	32	14		*e* 32	13			*i* 32	41			*e* 32	41			0.14	0.16	8.5	0	,, ,,
64	7	*e* 18	45	10		–	–			*e* 45	53			–	–			0.01	–	4.7	0	
65	7	*i* 23	23	53		–	–			*i* 24	10			*e* 24	09			0.02	0.02	3.4	0	
66	8	*e* 16	00	46		–	–			*e* 01	07			–	–			0.00	–	1.7	0	
67	8	*e* 16	08	56		*e* 08	59			*i* 09	26			*e* 09	28			0.07	0.07	6.7	0	λ=141°.1E, φ=36°.6N
68	9	*e* 10	45	42		*e* 45	42			*i* 45	51			*e* 45	54			0.05	0.03	3.3	0	E off Yosihama
69	9	*e* 16	02	49		–	–			*e* 03	20			–	–			0.00	–	2.9	0	
70	14	*e* 14	16	51		–	–			*i* 17	37			–	–			0.01	–	4.7	0	
71	18	*e* 12	33	07		*e* 33	07			*i* 33	45			*e* 33	44			0.02	0.03	4.3	0	
72	20	17				–	–			*e* 22	13			–	–			0.01	–	–	0	
73	21	0				–	–			? 12	21			–	–			0.01	–	3.4	0	
74	21	*e* 3	51	13		–	–			*e* 51	44			–	–			0.01	–	3.1	0	
75	24	*e* 8	19	08		–	–			*e* 19	44			–	–			0.01	–	4.1	0	
76	24	*e* 16	14	32		–	–			*i* 14	54			–	–			0.01	–	3.0	0	
77	28	*i* 23	49	52		*e* 49	53			*i* 51	27			*e* 51	26			0.12	0.08	14.6	0	N part of sea of Japan
78	29	*e* 8	07	27		–	–			*i* 07	47			–	–			0.01	–	2.8	0	(deep)
79	30	*i* 4	06	54		*i* 06	53			*i* 07	04			*i* 07	03			0.03	0.02	3.0	0	
80	30	*i* 21	20	14		*i* 20	14			*i* 20	36			*i* 20	38			⊕	3.30	24.7	2	λ=141°.6E, φ=37°.4N
81	30	*e* 23	28	06		*e* 23	04			*i* 28	27			*i* 28	27			0.03	0.02	4.3	0	λ=141°.6E, φ=37°.4N
82	30	23				–	–			*e* 49	02			–	–			–	–	1.6	0	
83	31	*e* 3	06	04		–	–			*e* 06	17			–	–			0.00	–	2.0	0	
84	31	*i* 12	14	16		–	–			*i* 14	39			–	–			0.03	–	4.4	0	
85	31	13				–	–			*i* 46	28			–	–			–	–	1.4	0	
86	Apr. 1	*e* 18	08	50		–	–			*e* 09	25			–	–			–	–	2.8	0	
87	4	*i* 13	22	17		*i* 22	17			*i* 22	40			*i* 22	40			0.22	0.20	9.3	1	λ=141°.4E, φ=37.3N
88	4	17				–	–			*e* 40	26			–	–			–	–	1.8	0	
89	4	*e* 17	47	22		*e* 47	27			*i* 47	48			*e* 47	52			0.03	0.02	4.5	0	Off Cape Sioya
90	5	3				–	–			*e* 10	33			–	–			0.01	0.01	3.0	0	
91	6	*e* 16	17	33		–	–			*e* 18	08			–	–			–	–	3.0	0	
92	8	*e* 2	19	04		–	–			*i* 19	29			*e* 19	29			0.01	–	2.6	0	
93	8	*e* 20	31	03		–	–			*i* 31	28			–	–			0.01	–	2.8	0	
94	9	*e* 8	20	04		*e* 20	05			*i* 21	11			*e* 21	19			0.06	0.08	7.3	0	λ=137°.9E, φ=35°.0N
95	9	21				–	–			*e* 08	53			–	–			0.00	–	2.1	0	
96	11	*i* 15	25	39		*e* 25	40			*i* 26	06			*e* 26	06			0.28	0.21	9.4	1	λ=140°.7E, φ=36°.8N
97	14	*e* 7	40	36		–	–			*i* 41	06			*e* 41	06			0.01	0.01	3.2	0	
98	14	*e* 9	51	26		–	–			*e* 52	05			–	–			0.01	–	4.4	0	
99	15	*i* 11	16	14		*i* 16	14			*i* 17	04			*i* 17	03			0.26	0.17	8.0	0	λ=137°.1E, φ=36°.2N
100	17	*e* 23	53	59		*e* 53	56			*i* 54	27			*e* 54	26			0.03	–	5.5	0	E off Kinkwasan
101	17	*e* 9	56	22		–	–			*e* 57	28			–	–			0.01	–	5.4	0	
102	18	*e* 16	31	41		–	–			*i* 32	09			*e* 32	08			0.01	0.03	4.9	0	
103	19	? 15	37	21		? 37	31			? 47	15			? 47	15			–	0.13	95.2	0	
104	20	*e* 22	06	58		*e* 07	00			*e* 11	28			*e* 11	28	*e* 14	21	*e* 13	16	0.05	–	51.9	0	λ=120°49′E, φ=24°21′N
105	21	*i* 3	24	05		*e* 24	05			*i* 24	39			*e* 24	38	–	–	–	–	0.05	0.05	7.4	0	λ=138°.9E, φ=36°.4N
106	22	*e* 6	24	04		–	–			*e* 24	24			–	–			–	–	2.7	0	
107	22	*e* 13	56	43		–	–			*i* 56	58			*e* 56	57			0.03	0.01	2.8	0	
108	25	*e* 17	40	42		–	–			*e* 41	00			–	–			0.00	–	3.4	0	
109	27	*e* 2	27	59		–	–			*i* 28	37			*e* 28	37			0.01	0.01	3.6	0	
110	28	*e* 20	52	58		–	–			*i* 53	47			*e* 53	47			0.02	0.02	5.2	0	

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No.	Date 1935	P E	P W	P N	P S	S E	S W	S N	S S	L E	L W	L N	L S	Maximum Range of Motion E W	Maximum Range of Motion N S	Duration of Total Earthquake	Intensity	Approximate Epicenter
		h m s		m s		m s		m s		m s		m s		mm	mm	m		
111	May 4	e 1 07 04		– –		i 07 21		e 07 21		– –		– –		0.02	0.02	3.1	0	
112	9	i 9 18 20		e 18 21		i 19 24		e 19 22		– –		– –		0.01	0.01	5.7	0	
113	10	e 16 14 12		– –		e 14 47		e 14 48		– –		– –		0.01	0.01	4.4	0	
114	11	e 14 35 17		– –		i 36 00		e 35 59		– –		– –		0.01	0.02	4.0	0	
115	12	1		– –		e 27 52		– –		– –		– –		0.00	–	2.9	0	
116	13	? 20 07 09		– –		? 14 16		? 13 20		– –		– –		–	–	29.1	0	
117	15	14 –		– –		i 28 03		– –		– –		– –		0.01	–	2.1	0	
118	16	e 23 09 54		– –		i 10 28		– –		– –		– –		0.01	–	4.1	0	
119	18	21 –		– –		e 12 42		– –		– –		– –		–	–	1.6	0	
120	21	e 6 58 51		? 59 43		? 65 46		? 66 13		– –		– –		–	–	41.6	0	
121	21	13		– –		e 14 25		– –		– –		– –		0.00	–	3.9	0	
122	23	i 2 10 17		i 10 17		i 10 31		i 10 33		– –		– –		0.31	0.21	10.4	1	λ=142°.3E, φ=38°.2N
123	23	e 11 39 54		– –		e 40 27		– –		– –		– –		0.01	–	4.6	0	
124	24	e 5 42 06		e 42 50		? 47 58		? 47 44		– –		– –		–	–	135.4	0	
125	24	e 16 18 25		e 18 27		i 18 56		e 18 54		– –		– –		0.02	0.01	5.0	0	SW off Urakawa
126	25	i 20 36 42		e 36 41		i 36 54		e 36 54		– –		– –		0.05	0.04	4.7	0	Off Sizugawa Bay
127	27	5		– –		i 50 18		e 50 18		– –		– –		0.02	–	3.2	0	
128	28	e 17 04 17		– –		e 05 13		e 05 12		– –		– –		0.01	–	6.0	0	
129	29	e 11 09 09		– –		e 09 38		– –		– –		– –		0.00	–	3.3	0	
130	29	17		– –		e 16 24		– –		– –		– –		0.00	–	1.3	0	
131	30	e 19 09 57		✳		i 10 46		✳		– –		– –		0.01	✳	4.7	0	
132	30	e 21 43 06		e 43 13		e 51 37		e 51 37		e 64 36		e 63 24		–	2.09	96.1	0	Baluchistan
133	31	i 8 20 11		i 20 11		i 21 22		i 21 22		– –		– –		0.38	0.30	11.1	0	λ=134°.2E, φ=38°.6N
134	31	20		– –		e 10 21		– –		– –		– –		–	–	2.4	0	(deep)
135	June 1	0		– –		e 43 38		– –		– –		– –		–	–	1.1	0	
136	1	14		– –		? 46 32		– –		– –		– –		0.01	–	3.8	0	
137	2	e 9 56 39		? 56 35		e 60 39		? 60 42		– –		– –		–	–	12.7	0	
138	4	e 20 34 39		– –		e 35 14		– –		– –		– –		0.01	–	3.7	0	
139	6	e 0 44 43		– –		e 46 09		e 46 09		– –		– –		0.01	–	6.0	0	
140	6	e 13 00 26		– –		e 01 37		e 01 40		– –		– –		0.00	–	3.6	0	
141	8	e 4 58 00		e 58 02		i 58 38		i 58 39		– –		– –		0.03	0.04	4.8	0	λ=140°.1E, φ=36°.1N
142	10	e 6 53 29		e 53 29		i 54 30		e 54 30		– –		– –		0.03	0.03	8.2	0	λ=139°.4E, φ=33°.5N
143	12	e 19 08 10		– –		i 08 42		– –		– –		– –		0.01	–	2.4	0	
144	14	i 21 10 36		i 10 35		i 11 19		i 11 22		– –		– –		0.12	0.11	11.3	0	λ=140°.3E, φ=34°.7N
145	15	15		– –		e 07 54		– –		– –		– –		0.01	–	1.3	0	
146	16	6		– –		e 26 52		? 26 47		– –		– –		0.01	–	4.9	0	
147	20	i 19 30 24		e 30 24		i 30 59		i 30 59		– –		– –		0.07	0.06	6.0	0	Neighbourhood of Mt.
148	24	i 23 33 08		i 33 08		i 41 10		i 41 09		e 47 54		47 51		–	–	50.4	0	Tukuba
149	25	e 12 35 57		✳		i 37 36		✳		– –		– –		0.05	✳	16.0	0	SE off Etoroff
150	26	e 15 00 54		– –		i 01 04		i 01 04		– –		– –		0.05	0.05	3.7	0	
151	26	16		– –		e 30 09		– –		– –		– –		–	–	1.3	0	
152	26	e 16 55 30		– –		i 56 44		– –		– –		– –		0.01	–	2.7	0	
153	27	e 5 45 04		– –		i 45 21		– –		– –		– –		0.00	–	2.1	0	
154	27	e 5 48 40		– –		i 48 53		– –		– –		– –		0.02	–	2.5	0	
155	28	i 18 49 23		– –		i 50 14		50 17		– –		– –		0.03	0.03	6.7	0	λ=140°.3E, φ=34°.8N
156	28	e 18 58 55		e 58 56		i 59 45		i 59 46		– –		– –		0.47	0.20	13.2	0	,, ,,
157	29	e 5 45 08		– –		i 45 49		– –		– –		– –		0.01	–	3.4	0	
158	29	e 21 14 04		– –		e 15 00		– –		– –		– –		0.00	–	3.6	0	
159	July 2	e 23 31 22		– –		i 31 57		e 31 57		– –		– –		0.01	–	2.4	0	
160	3	e 1 37 08		– –		i 37 33		e 37 33		– –		– –		0.01	0.01	4.4	0	
161	3	i 16 32 30		e 32 29		i 33 10		e 33 10		– –		– –		0.07	0.06	8.4	0	λ=142°.8E, φ=42°.0N
162	4	e 18 50 39		50 39		i 51 15		51 14		– –		– –		0.01	0.02	3.8	0	
163	4	18		– –		i 55 41		i 55 42		– –		– –		0.02	0.01	3.3	0	
164	5	i 3 08 44		e 08 43		i 10 02		e 10 02		– –		– –		0.01	–	5.2	0	off Etoroff
165	5	i 9 13 01		e 13 03		i 14 20		i 14 20		– –		– –		0.04	0.03	6.5	0	SW off Hatizyozima (deep)

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No.	Date 1935	P E	P W	P N	P S	S E	S W	S N	S S	L E	L W	L N	L S	Maximum Range of Motion E	Maximum Range of Motion W	Maximum Range of Motion N	Maximum Range of Motion S	Duration of Total Earthquake	Intensity	Approximate Epicenter
		h m s		m s		m s		m s		m s		m s		mm		mm		m		
166	July 5	e 14 35 52		e 35 54		i 36 26		i 36 26		– –		– –		0.03		0.03		4.7	0	λ=142°.5E, φ=42°.3N
167	5	e 18 02 41		e 02 40		e 10 29		? 10 05		– –		– –		–		–		33.7	0	
168	6	6		– –		e 47 15		– –		– –		– –		0.01		–		3.5	0	
169	6	i 11 51 03		e 51 04		i 51 14		i 51 16		– –		– –		0.05		0.02		2.8	0	Oozuti Bay
170	6	e 23 41 47		– –		i 42 07		e 42 11		– –		– –		0.04		0.03		5.4	0	λ=141°.4E, φ=37°.0N
171	7	13		– –		e 29 14		? 29 11		– –		– –		0.01		–		4.0	0	
172	7	13		– –		e 37 56		? 38 05		– –		– –		0.01		–		8.7	0	
173	7	19		– –		e 51 09		e 51 06		– –		– –		0.00		–		1.3	0	
174	7	e 19 52 53		– –		e 53 15		e 53 18		– –		– –		0.01		–		2.8	0	
175	10	e 17 24 02		e 24 01		i 24 34		e 24 35		– –		– –		0.04		0.04		4.9	0	
176	11	i 8 26 01		i 26 01		i 27 16		i 27 15		– –		– –		0.72		✳		19.6	0	λ=138°26′E, φ=34°59′N
177	12	e 3 42 28		– –		i 43 05		e 43 00		– –		– –		0.01		–		2.5	0	
178	13	e 5 17 25		– –		i 17 49		e 17 49		– –		– –		0.01		–		3.9	0	
179	13	e 21 09 13		– –		i 10 03		i 10 02		– –		– –		0.05		–		5.1	0	
180	15	e 13 16 49		– –		i 17 05		i 17 05		– –		– –		0.02		–		2.0	0	Toono (Iwate)
181	15	14		– –		e 23 55		– –		– –		– –		0.00		–		4.4	0	
182	16	e 16 23 58		e 23 57		e 28 12		e 28 08		e 30 50		e 30 25		0.01		0.12		20.6	0	λ=120°.9E, φ=24°.6N
183	16	e 20 08 02		e 08 03		e 13 58		e 14 01		– –		– –		–		–		12.3	0	
184	17	i 17 56 28		e 56 25		i 57 05		? 57 07		– –		– –		0.05		0.05		7.2	0	λ=140°.05E, φ=36°.1N
185	18	8		– –		– –		– –		– –		– –		–		–		–	0	
186	19	i 0 50 27		e 50 25		i 51 02		i 51 02		– –		– –		⊕		3.98		51.7	3	λ=141°.3E, φ=36°.65N
187	19	2		– –		e 13 23		– –		– –		– –		–		–		3.1	0	
188	19	e 2 51 24		e 51 20		i 52 01		e 52 02		– –		– –		0.08		0.09		7.5	0	Kasima Nada
189	19	e 3 31 03		e 31 11		i 31 36		e 31 38		– –		– –		0.05		0.05		5.7	0	,, ,,
190	19	e 22 43 09		– –		e 43 37		– –		– –		– –		–		–		4.2	0	
191	21	0		– –		e 31 51		– –		– –		– –		–		–		2.5	0	
192	22	e 0 08 11		– –		e 08 41		– –		– –		– –		–		–		2.0	0	
193	24	e 9 19 34		e 19 32		i 20 07		i 20 06		– –		– –		0.01		0.01		3.8	0	
194	26	e 8 05 46		e 05 46		i 07 29		i 07 26		– –		– –		0.19		0.16		9.8	0	λ=147°.3E, φ=47°.5N
195	26	10		– –		–		– –		– –		– –		–		0.05		–	0	
196	26	e 11 59 25		– –		i 59 56		e 59 56		– –		– –		0.02		–		3.7	0	
197	26	e 19 05 21		– –		e 05 57		e 05 57		– –		– –		0.01		0.01		4.0	0	
198	27	e 1 51 35		– –		e 52 45		e 52 48		– –		– –		0.01		–		6.5	0	
199	27	i 10 15 28		e 15 26		i 17 15		i 17 16		– –		– –		0.06		0.05		8.3	0	NW off Etoroff
200	27	e 10 30 17		– –		e 30 50		e 30 49		– –		– –		0.01		–		3.3	0	
201	27	e 17 02 30		e 02 32		i 03 34		e 03 32		– –		– –		0.04		0.05		7.6	0	E off Cape Nozima
202	27	e 19 26 03		– –		i 27 07		e 27 06		– –		– –		0.02		0.01		6.7	0	,, ,,
203	28	e 8 25 53		e 25 49		e 29 54		e 29 53		– –		– –		–		–		8.9	0	
204	28	e 17 36 37		– –		e 37 26		e 37 26		– –		– –		0.01		–		4.6	0	
205	29	e 1 54 14		– –		e 54 58		e 54 57		– –		– –		0.00		–		3.9	0	
206	29	i 4 17 13		e 17 12		i 20 55		i 20 56		– –		– –		0.21		0.10		12.9	0	Mariana Is.
207	29	e 7 49 24		e 49 26		i 58 05		e 57 51		e 65 27		? 65 45		–		–		48.3	0	
208	29	10		–		e 22 12		– –		– –		– –		–		–		1.4	0	
209	29	i 19 57 51		e 57 51		i 58 16		e 58 14		– –		– –		0.04		0.05		7.5	0	SE off Cape Siriya
210	31	e 8 13 16		e 13 15		i 13 59		i 13 58		– –		– –		0.07		0.05		6.9	0	λ=140°.2E, φ=36°.2N
211	Aug. 1	e 4 41 37		– –		e 42 14		– –		– –		– –		0.01		–		4.8	0	
212	2	e 20 24 56		– –		i 26 21		e 26 22		– –		– –		0.01		0.01		5.1	0	
213	3	e 1 19 24		e 19 21		e 26 41		e 26 47		e 31 17		31 22		0.02		0.93		52.2	0	
214	4	e 8 20 04		– –		i 20 36		e 20 36		– –		– –		0.02		0.02		4.5	0	
215	6	e 13 04 30		– –		e 05 30		– –		– –		– –		0.01		–		6.0	0	
216	7	e 19 09 55		e 09 55		i 10 06		e 10 07		– –		– –		0.02		0.02		2.7	0	NW foot of Mt. Iwate
217	8	e 2 58 32		– –		i 58 56		e 58 54		– –		– –		0.01		–		2.1	0	
218	9	e 10 31 28		– –		i 31 41		i 31 41		– –		– –		0.02		–		1.4	0	Toono (Iwate)
219	11	e 17 45 43		– –		e 46 27		– –		– –		– –		0.00		–		3.8	0	
220	11	e 18 14 40		– –		i 15 13		– –		– –		– –		0.01		–		3.8	0	

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No.	Date 1935	P E	P W	P N	P S	S E	S W	S N	S S	L E	L W	L N	L S	Maximum Range of Motion E	Maximum Range of Motion W	Maximum Range of Motion N	Maximum Range of Motion S	Duration of Total Earthquake	Intensity	Approximate Epicenter
		h m s		m s		m s		m s		m s		m s		mm		mm		m		
221	Aug. 13	e 17 45 10		– –		i 45 35		e 45 36		– –		– –		0.01		0.03		3.2	0	
222	14	e 1 31 07		e 31 06		i 31 36		e 31 36		– –		– –		0.02		0.03		5.7	0	Off Cape Sioya
223	14	e 23 03 09		– –		i 03 33		e 03 33		– –		– –		0.03		0.02		3.6	0	
224	17	i 1 55 28		e 55 30		i 64 24		e 64 23		e 72 36		e 72 26		0.07		–		52.6	0	
225	17	i 7 23 32		i 23 32		i 23 53		i 23 52		– –		– –		0.40		0.30		9.6	2	λ=141°.6E, φ=37°.2N
226	20	e 0 15 22		– –		e 15 56		e 15 53		– –		– –		0.01		0.02		5.0	0	
227	20	e 14 15 43		– –		e 16 11		– –		– –		– –		–		–		2.7	0	
228	21	i 11 29 19		i 29 20		i 29 31		i 29 32		– –		– –		0.11		0.11		3.9	1	
229	21	e 20 50 55		e 50 58		i 51 23		i 51 23		– –		– –		0.04		0.03		4.4	0	
230	21	20		– –		e 58 34		e 58 37		– –		– –		0.01		–		2.0	0	
231	23	e 14 07 27		e 07 26		e 15 33		e 15 26		– –		– –		–		–		36.2	0	
232	23	e 19 26 23		– –		e 27 11		– –		– –		– –		0.01		0.01		4.5	0	
233	24	e 2 03 40		– –		e 04 17		– –		– –		– –		0.01		–		4.0	0	
234	27	e 7 26 04		– –		e 27 29		– –		– –		– –		0.01		–		8.0	0	
235	27	i 14 30 47		e 30 45		i 31 13		i 31 14		– –		– –		0.59		0.33		11.5	0	λ=143°.0E, φ=39°.5N
236	28	e 5 38 35		– –		e 39 19		– –		– –		– –		0.01		–		3.6	0	
237	28	e 6 24 31		– –		e 25 06		e 25 05		– –		– –		0.01		–		4.7	0	
238	28	e 14 06 28		– –		e 06 56		– –		– –		– –		0.00		–		2.3	0	
239	28	e 14 09 47		– –		e 10 33		– –		– –		– –		0.00		–		3.6	0	
240	30	e 9 40 05		– –		e 40 28		e 40 26		– –		– –		0.01		–		4.2	0	
241	31	e 0 20 52		– –		e 22 18		e 22 19		– –		– –		0.01		–		4.8	0	
242	31	i 0 25 46		e 25 47		i 26 08		e 26 08		– –		– –		0.15		0.10		6.8	0	Off Miyako
243	31	i 5 27 42		i 27 44		i 28 03		i 28 03		– –		– –		0.13		0.10		7.1	0	,, ,,
244	31	e 7 49 40		– –		i 50 04		e 50 02		– –		– –		0.04		0.03		4.4	0	,, ,,
245	31	i 11 02 50		e 02 49		i 03 12		e 03 14		– –		– –		0.06		0.05		6.2	0	,, ,,
246	Sept. 31	e 11 39 49		– –		e 40 12		– –		– –		– –		0.00		–		2.3	0	Off Kinkwasan
247	31	e 17 42 00		e 41 58		i 43 25		i 43 25		– –		– –		0.05		0.05		22.6	0	Neighbourhood of
248	2	2		– –		e 48 48		– –		– –		– –		0.00		–		2.2	0	Miyakezima
249	2	e 7 23 05		– –		e 23 42		– –		– –		– –		0.01		–		4.2	0	
250	2	8		– –		e 14 51		– –		– –		– –		0.00		–		1.8	0	
251	2	e 9 03 46		– –		i 04 22		e 04 22		– –		– –		0.02		0.02		4.7	0	
252	2	e 11 11 15		– –		i 11 49		e 11 47		– –		– –		0.02		0.01		3.3	0	
253	2	15		– –		e 18 23		– –		– –		– –		0.01		–		2.6	0	
254	2	19		– –		e 10 54		– –		– –		– –		–		–		1.6	0	
255	3	8		– –		e 48 27		– –		– –		– –		–		–		3.2	0	
256	3	23		– –		e 04 31		– –		– –		– –		0.00		–		3.1	0	
257	4	i 1 42 55		i 42 54		i 47 10		i 47 05		– –		– –		0.74		0.15		–	0	λ=121°.6E, φ=22°.4N
258	4	i 1 59 39		e 59 39		i 63 57		e 63 59		– –		– –		0.04		–		25.3	0	λ=121°.7E, φ=22°.7N
259	4	e 3 33 16		e 33 18		e 37 31		e 37 29		– –		– –		0.02		–		17.4	0	λ=121°.4E, φ=22°.4N
260	5	2		– –		e 12 58		– –		– –		– –		–		–		2.8	0	
261	6	4		– –		e 44 06		– –		– –		– –		–		–		3.3	0	
262	6	7		– –		e 36 09		– –		– –		– –		–		–		1.6	0	
263	6	e 21 16 14		– –		i 17 25		e 17 25		– –		– –		0.01		–		5.6	0	
264	6	22		– –		e 37 58		– –		– –		–		–		–		1.4	0	
265	7	9		– –		e 33 52		– –		– –		– –		–		–		2.1	0	
266	7	14		– –		e 46 26		– –		– –		– –		0.01		–		2.3	0	
267	7	e 15 45 52		– –		e 46 30		– –		– –		– –		–		–		–	0	
268	7	15		– –		e 48 07		e 48 11		– –		– –		0.01		0.01		3.5	0	
269	9	e 6 24 07		e 24 07		e 28 51		e 28 53		e 32 16		e 31 26		0.02		0.15		52.3	0	
270	9	e 21 30 19		– –		e 31 22		– –		– –		– –		0.01		–		4.6	0	
271	11	i 14 05 30		i 05 30		i 06 29		i 06 29		– –		– –		⊕		2.50		82.5	2	λ=145°.1E, φ=42°.7N
272	11	e 16 11 07		– –		e 12 03		– –		– –		– –		0.01		–		4.2	0	
273	12	e 11 05 16		e 05 18		i 06 21		e 06 24		– –		– –		0.01		0.02		5.7	0	Neighbourhood of
274	13	e 7 44 53		– –		e 45 54		– –		– –		– –		0.00		–		4.6	0	Sikotan Str.(Hokkaido)
275	13	e 9 27 38		e 27 38		i 28 00		e 28 00		– –		– –		0.04		0.03		3.9	0	λ=140°.6E, φ=36°.5N

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		h m s		m s		m s		m s		m s		m s		mm		mm		m		
276	Sept. 13	*e* 15 36 25		– –		*i* 37 03		*e* 37 05		– –		– –		0.01		0.02		4.2	0	
277	14	*e* 8 29 43		– –		*e* 30 59		– –		– –		– –		0.01		–		5.7	0	
278	14	*i* 14 20 15		*i* 20 10		*i* 20 45		*i* 20 41		– –		– –		0.42		0.27		9.8	0	λ=141°.4E, φ=36°.7N
279	15	? 11 23 47		? 23 24		? 31 50		? 31 44		– –		– –		–		0.04		37.2	0	
280	15	*e* 13 52 15		– –		*e* 52 38		– –		– –		– –		–		–		2.0	0	
281	15	15		– –		– –		– –		– –		– –		–		–		–	0	
282	16	*e* 14 50 25		*e* 50 29		*i* 50 59		*e* 51 02		– –		– –		0.03		0.03		7.3	0	SE off Katuura
283	16	*i* 15 16 37		*e* 16 39		*i* 17 04		*i* 17 05		– –		– –		0.10		0.07		5.8	0	ESE off Miyako
284	16	*e* 20 52 46		*e* 52 47		*i* 53 26		*i* 53 30		– –		– –		0.09		0.06		7.2	0	λ=140°.5E, φ=36°.0N
285	18	*i* 8 24 45		*i* 24 45		*i* 25 19		*i* 25 19		– –		– –		⊕		1.12		19.2	1	λ=142°.6E, φ=42°.0N
286	18	*i* 8 51 00		*i* 51 00		*i* 51 40		*i* 51 41		– –		– –		0.48		0.50		13.5	0	λ=142°.6E, φ=42°.0N
287	18	*i* 20 09 56		*i* 09 56		*i* 10 26		*i* 10 26		– –		– –		0.72		0.56		12.5	0	λ=142°.8E, φ=41°.1N
288	18	*e* 21 10 40		– –		*i* 11 11		*e* 11 11		– –		– –		0.02		0.02		3.5	0	SE off Miyako
289	18	*e* 21 47 05		– –		*i* 47 45		*e* 47 46		– –		– –		0.01		0.01		2.9	0	
290	18	*i* 23 36 03		*e* 36 01		*i* 36 41		*i* 36 41		– –		– –		0.07		0.05		6.5	0	SW off Urakawa
291	19	*e* 2 31 14		*e* 31 19		*e* 35 00		*e* 35 08		– –		– –		–		–		32.2	0	
292	20	*i* 1 54 41		*i* 54 39		*i* 60 57		*i* 60 59		*i* 64 27		*i* 64 39		–		–		192.1	0	
293	20	*e* 5 31 01		*i* 31 01		*e* 37 20		*i* 37 19		*e* 40 42		*e* 40 53		–		–		71.1	0	
294	21	*e* 13 08 13		– –		*i* 08 38		*e* 08 41		– –		– –		0.02		0.01		5.1	0	
295	22	*e* 7 06 05		– –		*e* 06 40		– –		– –		– –		0.00		–		3.5	0	
296	22	*e* 10 46 17		– –		*i* 47 00		*e* 46 59		– –		– –		0.02		0.01		3.8	0	
297	22	*i* 14 40 45		*e* 40 46		*i* 41 25		*i* 41 25		– –		– –		0.02		0.02		5.6	0	λ=139°.4E, φ=36°.2N
298	22	*e* 16 03 09		– –		*i* 04 49		*e* 04 47		– –		– –		0.01		0.02		7.8	0	
299	23	*e* 9 26 15		*e* 26 16		*e* 32 36		*e* 32 38		*e* 35 59		*e* 36 02		–		–		49.4	0	
300	23	*e* 17 33 17		*e* 33 16		*i* 34 03		*e* 34 04		– –		– –		0.02		0.01		5.9	0	
301	24	5		– –		*e* 09 05		– –		– –		– –		0.01		–		4.7	0	
302	24	*e* 16 40 03		*e* 40 03		*e* 40 48		*e* 40 51		– –		– –		0.03		0.04		8.9	0	
303	24	*e* 16 55 56		*e* 55 55		*i* 56 53		*e* 56 52		– –		– –		0.03		0.04		14.7	0	
304	25	10		– –		*e* 27 38		– –		– –		– –		0.01		–		5.0	0	
305	25	*e* 14 27 11		– –		*e* 27 45		– –		– –		– –		0.00		–		3.5	0	
306	25	*e* 16 43 05		– –		*e* 43 45		– –		– –		– –		0.01		–		3.2	0	
307	27	*e* 18 47 54		*e* 47 54		*i* 48 33		*i* 48 32		– –		– –		0.06		0.06		5.8	0	λ=142°.4E, φ=42°.4N
308	28	*i* 3 46 32		– –		*i* 47 09		*e* 47 07		– –		– –		0.03		0.02		3.9	0	
309	29	8		– –		*i* 25 11		– –		– –		– –		0.01		–		2.4	0	
310	29	11		– –		? 44 37		– –		– –		– –		0.00		–		2.0	0	
311	30	0 07 59		*e* 07 58		08 46		*i* 08 47		– –		– –		0.10		0.10		9.4	0	
312	30	*e* 13 37 37		– –		*e* 38 35		– –		– –		– –		0.01		–		4.8	0	
313	30	*e* 15 04 21		– –		*e* 05 03		– –		– –		– –		0.01		–		3.2	0	
314	Oct. 2	*i* 5 34 27		*i* 34 26		*i* 35 26		*i* 35 28		– –		– –		1.19		1.05		35.5	1	λ=145°.8E, φ=42°.9N
315	4	*e* 5 22 02		– –		*i* 27 13		*i* 27 11		*i* 31 34		*e* 31 19		–		–		16.9	0	
316	4	*e* 17 47 39		– –		*e* 48 33		– –		– –		– –		0.00		–		4.0	0	
317	6	*e* 5 29 21		– –		*i* 29 56		*i* 29 54		– –		– –		0.01		0.02		4.0	0	
318	11	*i* 22 23 52		*e* 23 52		*e* 30 16		*e* 30 18		*e* 33 19		*e* 33 41		–		–		33.1	0	
319	12	*i* 16 45 56		*i* 45 57		⊕		*i* 46 22		– –		– –		⊕		6.66		–	3	λ=143°.3E, φ=40°.4N
320	12	*i* 17 01 02		*i* 01 00		*i* 01 24		*i* 01 24		– –		– –		⊕		1.25		–	1	λ=143°.2E, φ=40°.2N
321	12	17 ⊕		? 06 20		⊕		? 06 36		– –		– –		⊕		0.49		–	0	
322	12	*i* 17 13 46		*e* 13 45		*i* 14 15		*e* 14 12		– –		– –		0.28		0.25		–	0	λ=143°.7E, N=40°.2N
323	12	17		– –		*i* 20 30		*e* 20 30		– –		– –		0.04		0.04		4.5	0	
324	12	*e* 17 25 57		– –		*e* 26 28		– –		– –		– –		0.00		–		3.2	0	
325	12	*i* 18 07 11		07 12		*i* 07 41		07 45		– –		– –		0.25		0.29		6.9	0	λ=143°.3E, φ=40°.6N
326	12	*i* 18 14 43		*i* 14 43		*i* 15 04		*i* 15 07		– –		– –		1.88		1.36		19.4	0	λ=143°.0E, φ=40°.1N
327	12	*i* 18 37 31		*e* 37 31		*i* 37 58		*e* 37 58		– –		– –		0.05		0.05		5.2	0	Off Miyako
328	12	*e* 19 05 38		– –		*i* 06 04		*e* 06 05		– –		– –		0.01		–		2.1	0	
329	12	19		– –		*e* 08 17		– –		– –		– –		–		–		1.5	0	
330	12	*e* 19 13 18		– –		*e* 13 42		– –		– –		– –		0.01		–		2.8	0	

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No.	Date 1935	P				S				L				Maximum Range of Motion				Duration of Total Earthquake	Intensity	Approximate Epicenter
		E		W		N		S		E		W		N		S		E	W	N	S			
		h	m	s		m	s	m	s	m	s	m	s	m	s			mm	mm			m		
331	Oct. 12	20				–	–	e 19	53	–	–	–	–	–	–			–	–			0.9	0	
332	12	e 22	32	32		–	–	e 33	00	–	–	–	–	–	–			0.00	–			–	0	
333	12	22				–	–	e 34	30	–	–	–	–	–	–			0.01	–			2.1	0	
334	12	e 22	40	40		–	–	e 41	04	–	–	–	–	–	–			0.01	–			2.7	0	
335	13	e 0	06	24		–	–	i 06	46	–	–	–	–	–	–			0.01	–			3.1	0	
336	13	i 1	58	06		i 58	06	i 58	33	i 58	35	–	–	–	–			⊕	1.62			20.0	1	λ=143°.4E, φ=40°.2N
337	13	i 2	41	03		e 41	03	i 41	37	e 41	30	–	–	–	–			0.04	0.03			5.2	0	
338	13	e 2	46	37		–	–	e 47	04	–	–	–	–	–	–			0.01	–			3.2	0	
339	13	i 2	50	49		e 50	50	i 51	23	i 51	21	–	–	–	–			0.03	0.02			4.5	0	
340	13	e 9	05	39		–	–	i 06	36	–	–	–	–	–	–			0.01	0.02			4.7	0	
341	13	e 9	19	37		e 19	37	i 19	58	i 19	57	–	–	–	–			0.05	0.03			4.5	0	Off Miyako
342	13	e 13	27	12		–	–	i 27	45	e 27	49	–	–	–	–			–	–			3.1	0	
343	13	i 14	12	54		e 12	50	i 13	26	i 13	28	–	–	–	–			0.05	0.03			5.7	0	Off Miyako
344	14	i 0	04	15		e 04	13	i 04	49	e 04	49	–	–	–	–			0.05	0.05			5.9	0	NE off Miyako
345	14	e 3	50	22		e 50	18	i 50	53	e 50	53	–	–	–	–			0.03	0.02			4.7	0	,, ,,
346	14	e 3	55	25		–	–	e 56	00	e 56	02	–	–	–	–			0.00	–			3.3	0	
347	14	e 7	31	03		–	–	e 31	48	–	–	–	–	–	–			0.01	–			4.8	0	
348	14	7				–	–	e 56	54	–	–	–	–	–	–			0.01	–			3.1	0	
349	14	e 21	51	49		–	–	e 52	30	–	–	–	–	–	–			0.00	–			3.7	0	
350	15	4				–	–	e 55	49	–	–	–	–	–	–			0.00	–			2.3	0	
351	15	e 5	01	08		–	–	i 01	32	e 01	31	–	–	–	–			0.03	–			4.1	0	
352	15	e 6	37	19		e 37	21	i 37	50	e 37	49	–	–	–	–			0.03	0.05			6.0	0	
353	15	i 10	31	08		i 31	07	i 31	39	i 31	39	–	–	–	–			0.30	0.30			8.2	0	λ=143°.5E, φ=40°.3N
354	15	i 14	36	27		i 36	25	i 37	05	i 37	05	–	–	–	–			0.11	0.10			7.8	0	λ=135°.4E, φ=37°.7N
355	15	e 14	59	49		e 59	49	i 60	24	i 60	25	–	–	–	–			0.04	0.05			4.6	0	NE off Miyako
356	18	i 0	12	36		i 12	36	⊕		i 13	24	–	–	–	–			⊕	⊕			–	3	λ=143°.8E, φ=40°.2N
357	18	✳ 0				✳		✳		e 28	20	–	–	–	–			✳	0.10			–	0	
358	18	✳ 0				? 29	54	✳		i 30	26	–	–	–	–			✳	0.48			–	0	
359	18	✳ 0				? 37	15	✳		e 37	47	–	–	–	–			✳	0.08			4.5	0	
360	18	? 0	43	18		–	–	? 43	50	–	–	–	–	–	–			0.04	0.03			5.3	0	
361	18	e 0	48	46		–	–	i 49	30	e 49	31	–	–	–	–			0.03	0.02			4.7	0	
362	18	e 0	58	21		–	–	e 58	57	–	–	–	–	–	–			0.00	–			2.6	0	
363	18	e 1	11	49		–	–	e 12	06	e 12	05	–	–	–	–			0.02	0.02			5.5	0	
364	18	? 1	36	00		–	–	? 36	36	–	–	–	–	–	–			0.01	–			2.5	0	
365	18	i 1	38	37		e 38	32	i 38	59	i 38	59	–	–	–	–			0.09	0.05			5.9	0	Off Miyako
366	18	e 1	51	28		–	–	e 52	08	e 52	09	–	–	–	–			0.01	–			3.3	0	
367	18	2				–	–	e 17	46	–	–	–	–	–	–			0.01	–			2.4	0	
368	18	e 3	03	07		–	–	i 03	40	e 03	48	–	–	–	–			0.01	–			4.2	0	
369	18	e 3	26	24		–	–	e 26	56	e 26	53	–	–	–	–			0.01	–			3.3	0	
370	18	e 3	41	58		–	–	e 42	34	e 42	37	–	–	–	–			0.01	–			4.0	0	
371	18	3				–	–	–	–	–	–	–	–	–	–			–	–			–	0	
372	18	e 4	27	48		–	–	e 28	19	–	–	–	–	–	–			0.01	–			4.7	0	
373	18	5				–	–	–	–	–	–	–	–	–	–			–	–			–	0	
374	18	i 5	52	20		i 52	20	i 52	59	i 52	59	–	–	–	–			0.36	0.30			11.9	0	Off Miyako
375	18	6				–	–	e 07	19	–	–	–	–	–	–			–	–			2.9	0	
376	18	i 6	11	08		i 11	07	i 11	40	i 11	37	–	–	–	–			0.20	0.16			10.3	0	Off Miyako
377	18	e 7	11	33		e 11	32	i 12	26	e 12	27	–	–	–	–			0.06	0.07			6.8	0	,, ,,
378	18	10				–	–	e 13	27	–	–	–	–	–	–			–	–			1.4	0	
379	18	i 11	11	13		e 11	04	i 15	50	e 15	49	–	–	–	–			0.07	0.18			48.5	0	
380	18	11				–	–	e 44	58	–	–	–	–	–	–			–	–			3.1	0	
381	18	i 14	54	33		i 54	32	i 55	08	i 55	08	–	–	–	–			⊕	1.75			29.1	2	λ=143°.9E, φ=40°.4N
382	18	e 16	12	28		–	–	i 13	05	–	–	–	–	–	–			0.01	–			4.3	0	
383	18	e 18	51	02		–	–	e 51	48	e 51	51	–	–	–	–			0.01	–			4.7	0	
384	18	i 21	52	05		i 52	05	i 52	39	i 52	39	–	–	–	–			⊕	1.69			18.1	2	λ=143°.5E, φ=40°.0N
385	19	i 0	52	16		i 52	15	i 52	51	i 52	51	–	–	–	–			0.45	0.04			14.7	0	λ=143°.3E, φ=40.2N

EARTHQUAKES, 1935.

International Seismological Centre

No.	Date 1935	P				S				L				Maximum Range of Motion				Duration of Total Earthquake	Intensity	Approximate Epicenter
		E		W		N		S		E		W		N		S		E	W	N	S			
		h	m	s		m	s	m	s	m	s	m	s	m	s			mm	mm	m		
386	Oct. 19	*i*	2	39	38	*i* 39	38	*i* 40	16	*i* 40	16	–	–	–	–			0.75	0.85	17.3	0	ENE off Miyako
387	19	*e*	4	20	18	*e* 20	20	*e* 20	55	*e* 20	53	–	–	–	–			0.01	–	3.1	0	
388	19	*i*	6	37	54	*e* 37	52	*i* 38	20	*e* 38	18	–	–	–	–			0.07	0.05	6.8	0	ENE off Miyako
389	19	*e*	10	13	53	–	–	*i* 14	24	*e* 14	26	–	–	–	–			0.03	0.03	4.7	0	
390	19	*i*	10	19	28	*e* 19	28	*i* 20	00	*i* 19	58	–	–	–	–			0.07	0.08	7.2	0	Off Miyako
391	19	*e*	21	35	14	–	–	*e* 35	51	–	–	–	–	–	–			–	–	4.0	0	
392	19	*e*	23	06	12	*e* 06	12	*i* 06	42	*i* 06	41	–	–	–	–			0.03	0.04	5.9	0	SE off Cape Siriya
393	20		1			–	–	*e* 00	22	–	–	–	–	–	–			–	–	2.0	0	
394	20		8			–	–	–	–	–	–	–	–	–	–			0.00	–	–	0	
395	20	*i*	14	54	34	*e* 54	36	*i* 55	04	*e* 55	08	–	–	–	–			0.08	0.05	7.4	0	NE off Miyako
396	20		16			–		*e* 36	08	–	–	–	–	–	–			0.00	–	2.5	0	
397	20		19			–		*e* 41	09	–	–	–	–	–	–			–	–	2.8	0	
398	20		20			–	–	*e* 51	19	–	–	–	–	–	–			–	–	2.0	0	
399	20	*e*	21	03	06	*e* 03	05	*i* 03	32	*i* 03	32	–	–	–	–			0.04	0.04	4.8	0	ENE off Miyako
400	21		4			–	–	*e* 15	53	–	–	–	–	–	–			–	–	2.9	0	
401	22	*e*	13	00	09	–	–	*e* 00	42	–	–	–	–	–	–			–	–	3.9	0	
402	22	*e*	14	11	03	–	–	*i* 11	59	*e* 12	02	–	–	–	–			0.01	–	5.1	0	
403	23	*e*	9	02	50	–	–	*i* 03	21	–	–	–	–	–	–			0.01	–	3.0	0	
404	23		10			–	–	*e* 52	31	–	–	–	–	–	–			0.00	–	2.9	0	
405	24	*e*	1	36	26	–	–	*e* 36	51	–	–	–	–	–	–			–	–	3.2	0	
406	24		7			–	–	*e* 22	24	–	–	–	–	–	–			–	–	2.0	0	
407	24	*e*	10	14	54	–	–	*e* 15	33	–	–	–	–	–	–			0.01	–	4.1	0	
408	24	*i*	16	45	49	*i* 45	49	*i* 45	58	*i* 45	58	–	–	–	–			0.20	0.19	4.3	2	λ=141°.8E, φ=38°.7N
409	25	*e*	10	20	50	*e* 20	50	*i* 21	24	*i* 21	25	–	–	–	–			0.08	0.06	6.9	0	NE off Miyako
410	26	*e*	22	34	35	–	–	*i* 35	02	*e* 35	03	–	–	–	–			0.03	0.02	5.9	0	
411	27	*e*	2	43	36	–	–	*e* 44	14	*e* 44	14	–	–	–	–			0.02	–	3.6	0	
412	29		2			–	–	*e* 54	30	–	–	–	–	–	–			–	–	2.6	0	
413	29	*e*	7	02	37	–	–	*i* 03	19	*e* 03	21	–	–	–	–			0.01	–	4.3	0	
414	29	*e*	9	22	54	–	–	*e* 23	27	–	–	–	–	–	–			0.00	–	3.9	0	
415	29	*e*	9	47	32	*e* 47	29	*e* 49	22	*e* 49	21	–	–	–	–			0.02	0.02	8.2	0	
416	30	*i*	2	04	47	*i* 04	47	*i* 05	17	*i* 05	18	–	–	–	–			0.31	0.34	9.4	1	λ=143°.1E, φ=41°.5N
417	30	*i*	17	02	06	*e* 02	08	*i* 02	39	*i* 02	39	–	–	–	–			0.06	0.05	7.6	0	ENE off Miyako
418	30		22			–	–	*e* 17	58	–	–	–	–	–	–			–	–	2.8	0	
419	30	*e*	23	47	09	–	–	*e* 47	41	*e* 47	40	–	–	–	–			0.02	0.02	5.7	0	
420	31	*e*	1	37	21	–	–	*e* 38	11	–	–	–	–	–	–			0.01	–	4.1	0	
421	31	*i*	6	53	00	–	–	*i*53	35	*e* 53	32	–	–	–	–			0.02	0.02	6.2	0	
422	31	*i*	12	57	17	–	–	*i*58	46	*e* 58	46	–	–	–	–			0.03	0.03	5.4	0	
423	31	*e*	16	36	26	–	–	*e*36	51	*e* 36	52	–	–	–	–			0.04	0.03	8.3	0	
424	31	*i*	20	01	54	*e* 01	54	*i*02	20	*i* 02	19	–	–	–	–			0.07	0.10	6.7	0	Off Miyako
425	Nov. 1	*e*	16	29	11	*e* 29	18	*e*36	53	*e* 36	53	*e* 42	35	*e* 42	33			–	–	46.9	0	
426	2	*e*	2	02	54	–	–	*e* 03	40	*e* 03	42	–	–	–	–			0.02	–	5.3	0	
427	2	*e*	2	18	20	–	–	*i* 19	11	–	–	–	–	–	–			0.01	–	4.2	0	
428	2	*e*	6	19	56	–	–	*i* 20	25	–	–	–	–	–	–			0.02	–	4.1	0	
429	2	*i*	13	54	35	*e* 54	33	*i* 55	04	*e* 55	03	–	–	–	–			0.05	0.04	4.9	0	λ=142°.2E, φ=41°.9N
430	2	*e*	17	23	45	–	–	*e* 24	15	–	–	–	–	–	–			0.01	–	4.9	0	
431	2		23			–	–	*e* 07	46	–	–	–	–	–	–			0.01	–	4.0	0	
432	4	*e*	19	50	39	–	–	*i* 51	02	*e* 51	02	–	–	–	–			0.02	0.02	3.9	0	
433	5		7			–	–	*e* 33	41	–	–	–	–	–	–			0.01	–	1.7	0	
434	6	*e*	6	15	01	–	–	*i* 15	34	–	–	–	–	–	–			0.01	–	3.9	0	Off Miyako
435	6		16			–	–	–	–	–	–	–	–	–	–			–	–	–	0	
436	7	*e*	23	42	07	–	–	*e* 42	32	–	–	–	–	–	–			0.01	–	2.8	0	
437	8	*i*	16	35	08	*e* 35	07	*i* 35	43	*i* 35	42	–	–	–	–			0.06	0.10	8.7	0	Off Miyako
438	9	*e*	8	51	59	–	–	*i* 52	29	–	–	–	–	–	–			0.01	–	2.5	0	
439	11		15			–	–	*i* 58	20	–	–	–	–	–	–			–	–	1.5	0	
440	11	*i*	18	58	09	–	–	*i* 60	15	*e* 60	15	–	–	–	–			0.04	0.03	7.6	0	

EARTHQUAKES, 1935.

International Seismological Centre

No.	Date 1935	P				S				L				Maximum Range of Motion				Duration of Total Earthquake	Intensity	Approximate Epicenter
		E		W		N		S		E		W		N		S				
		h	m	s		m	s	m	s	m	s	m	s	m	s			m		
441	Nov. 12	*i* 15	28	50		–	–	*i* 29	04	*e* 29	04	–	–	–	–	0.02	–	2.3	0	
442	12	21				–	–	–	–	?57	20	–	–	–	–	–	–	12.2	0	
443	13	*e* 18	53	50		–	–	*e* 54	18	–	–	–	–	–	–	0.01	–	3.1	0	
444	13	*i* 20	04	16		*e* 04	16	*i* 04	26	*i* 04	26	–	–	–	–	0.22	0.16	7.5	2	λ=141°.9E, φ=39°.0N
445	14	*e* 20	05	03		*e* 05	03	*e* 11	21	*e* 11	30	*e* 15	02	*e* 15	07	–	–	23.8	0	
446	15	*i* 9	57	22		*i* 57	23	*i* 57	36	*i* 57	37	–	–	–	–	0.21	0.11	6.8	1	λ=141°.6E, φ=37°.9N
447	15	*e* 15	03	38		–	–	*e* 04	05	–	–	–	–	–	–	0.00	–	1.9	0	
448	15	*e* 17	07	28		–	–	*e* 08	05	–	–	–	–	–	–	0.01	–	3.2	0	
449	16	*e* 4	53	07		–	–	*i* 53	31	*e* 53	33	–	–	–	–	0.03	0.03	3.5	0	
450	16	*i* 16	44	56		–	–	*i* 45	23	*e* 45	23	–	–	–	–	0.01	–	2.8	0	
451	18	*e* 5	45	16		–	–	*e* 45	52	–	–	–	–	–	–	0.01	–	4.8	0	
452	18	*i* 22	36	53		*e* 36	53	*i* 37	25	*i* 37	25	–	–	–	–	0.13	0.15	7.4	0	λ=143°.3E, φ=40°.5N
453	20	*e* 21	51	17		*e* 51	17	*i* 52	05	*e* 52	09	–	–	–	–	0.02	0.02	6.6	0	SE off Cape Inubô
454	21	*i* 8	43	03		*e* 43	03	*i* 44	17	*i* 44	17	–	–	–	–	0.14	0.14	7.9	0	SE off Cape Otiisi
455	21	*e* 19	17	24		–	–	*e* 18	22	–	–	–	–	–	–	0.01	0.02	5.7	0	
456	21	*e* 20	00	38		–	–	*i* 01	19	*e* 01	23	–	–	–	–	0.04	0.04	6.5	0	
457	24	*e* 11	08	51		–	–	*i* 09	13	–	–	–	–	–	–	0.01	–	2.2	0	
458	25	*e* 4	19	39		*e* 19	41	*i* 20	20	*e* 20	21	–	–	–	–	0.02	0.02	6.3	0	
459	25	10				–	–	?34	39	?32	39	–	–	–	–	–	–	16.6	0	
460	25	*e* 22	12	20		*e* 12	22	*i* 13	07	*i* 13	06	–	–	–	–	0.05	0.04	6.4	0	E off Cape Otiisi
461	28	*e* 3	13	00		–	–	*e* 13	46	–	–	–	–	–	–	0.01	–	3.3	0	
462	28	*e* 3	16	40		–	–	*e* 17	11	–	–	–	–	–	–	0.01	–	3.6	0	
463	28	*e* 3	40	39		–	–	*e* 41	15	–	–	–	–	–	–	0.01	–	4.3	0	
464	30	*e* 3	36	00		–	–	*e* 37	06	*e* 37	06	–	–	–	–	0.01	–	4.7	0	
465	Dec. 1	*i* 8	07	15		*e* 07	16	*i* 07	31	*i* 07	30	–	–	–	–	0.08	0.10	4.2	0	Off Miyako
466	1	*i* 16	51	28		–	–	*i* 51	41	*e* 51	41	–	–	–	–	–	–	2.0	0	
467	1	23				–	–	–	–	?48	51	?53	48	?52	44	–	0.08	16.7	0	
468	2	*e* 4	04	55		*e* 04	55	*i* 05	25	*e* 05	25	–	–	–	–	0.02	–	3 3	0	
469	2	16				–	–	?46	31	?45	09	?51	06	?50	24	–	–	15.1	0	
470	3	*e* 16	17	22		–	–	*i* 18	15	*e* 18	14	–	–	–	–	0.02	–	5.7	0	
471	3	*e* 17	45	28		*e* 45	24	*i* 46	30	*i* 46	30	–	–	–	–	0.13	0.09	7.6	0	λ=146°.4E, φ=42.9N
472	4	*e* 13	04	13		–	–	*i* 04	53	–	–	–	–	–	–	0.01	–	3.4	0	
473	5	*e* 13	31	15		–	–	*i* 31	41	–	–	–	–	–	–	0.01	–	3.6	0	
474	6	*i* 2	23	55		*e* 23	55	*i* 24	31	*e* 24	30	–	–	–	–	0.05	0.05	5.9	0	λ=142°.6E, φ=41°.9N
475	6	*i* 3	02	24		*e* 02	25	*i* 02	46	*e* 02	44	–	–	–	–	0.04	0.04	5.6	0	Off Miyako
476	6	*e* 23	52	13		–	–	*i* 52	50	–	–	–	–	–	–	0.01	–	3.9	0	
477	10	*e* 5	00	04		–	–	*i* 00	15	–	–	–	–	–	–	–	–	1.3	0	
478	10	*e* 23	53	15		*e* 53	11	*i* 54	00	*e* 54	01	–	–	–	–	0.04	0.05	7.9	0	ENE off Cape Inubô
479	14	1				–	–	*e* 20	00	–	–	–	–	–	–	0.00	–	3.6	0	
480	14	*e* 1	49	32		–	–	*e* 52	16	*e* 52	20	–	–	–	–	0.01	0.02	9.4	0	
481	14	*i* 12	51	25		*i* 51	24	*i* 54	33	*i* 54	33	–	–	–	–	0.10	0.08	12.8	0	λ=143°.0E, φ=22°.5N
482	14	*i* 13	08	42		*i* 08	42	*i* 08	58	*i* 08	59	–	–	–	–	0.23	0.18	6.7	0	
483	14	23				–	–	–	–	–	–	–	–	–	–	–	–	–	0	
484	15	*e* 7	17	03		*e* 16	59	*e* 24	27	*e* 24	25	*e* 30	18	*e* 30	13	⊕	–	97.9	0	
485	15	*i* 19	37	41		*e* 37	43	*i* 38	03	*e* 33	03	–	–	–	–	0.03	0.03	4.4	0	
486	15	*e* 21	27	08		–	–	*i* 27	20	–	–	–	–	–	–	–	–	1.9	0	
487	16	*i* 1	33	11		–	–	*i* 33	24	*e* 33	25	–	–	–	–	0.01	–	1.9	0	
488	16	5				–	–	*e* 05	07	–	–	–	–	–	–	–	–	1.0	0	
489	16	*i* 6	35	37		*e* 35	37	*i* 35	50	*e* 35	50	–	–	–	–	0.03	0.03	4.0	0	
490	17	*i* 19	22	17		*i* 22	17	*i* 26	12	*i* 26	07	*e* 28	51	*e* 23	35	–	–	40.6	0	λ=125°.3E, φ=23°.9N
491	18	*e* 5	33	21		*e* 33	22	*i* 33	39	*i* 33	39	–	–	–	–	0.05	0.04	4.1	0	ENE off Miyako
492	18	7				–	–	–	–	–	–	?27	27	?26	54	–	0.05	11.9	0	
493	18	*e* 12	27	49		–	–	*e* 28	07	–	–	–	–	–	–	0.01	–	1.9	0	
494	19	*i* 5	27	02		*i* 27	02	*i* 27	24	*i* 27	24	–	–	–	–	0.12	0.12	6.8	0	λ=142°.3E, φ=37°.6N
495	20	*e* 2	21	00		–	–	*e* 21	14	–	–	–	–	–	–	0.01	–	1.3	0	

EARTHQUAKES, 1935.

International Seismological Centre

No.	Date 1935	P				S				L				Maximum Range of Motion				Duration of Total Earthquake	Intensity	Approximate Epicenter
		E		W		N		S		E		W		N		S		E	W	N	S			
		h	m	s		m	s	m	s	m	s	m	s	m	s			mm	mm			m		
496	Dec. 20	*i*	5	47	17	*e* 47	15	*i* 47	47	*i* 47	47	–	–	–	–			0.19	0.20			8.3	0	λ=141°.4E, φ=36°.7N
497	20	*e*	18	46	01	*e* 46	08	*e* 53	25	*e* 53	25	*e* 59	51	*e* 59	28			–	0.07			54.4	0	
498	21	*e*	16	22	55	–	–	*e* 23	49	–	–	–	–	–	–			0.00	–			4.5	0	
499	22	*i*	10	55	08	*e* 55	08	*i* 55	41	*i* 55	41	–	–	–	–			0.09	0.08			7.9	0	λ=143°.8E, φ=41°.4N
500	23	*e*	14	48	13	–	–	*i* 48	43	–	–	–	–	–	–			0.01	–			7.0	0	
501	25	*i*	2	40	08	*e* 40	08	*i* 40	29	*e* 40	30	–	–	–	–			0.02	0.03			4.2	0	
502	27	*e*	12	21	44	–	–	*i* 23	39	*e* 23	41	–	–	–	–			0.02	–			4.8	0	
503	28	*e*	2	44	59	*e* 44	59	*e* 53	11	*e* 53	07	*e* 61	40	*e* 61	39			1.13	6.35			5.9	0	
504	28	*i*	4	08	41	*e* 08	39	*e* 09	05	*e* 09	09	–	–	–	–			0.11	0.10			6 5	0	Off Cape Sioya
505	28	*i*	19	30	24	*e* 30	24	*i* 32	12	*i* 32	09	–	–	–	–			0.08	0.08			7.4	0	S part of Okhotsk Sea
506	29	*e*	23	45	34	*e* 45	32	*e* 52	12	*e* 52	16	*e* 57	59	*e* 57	57			0.01	–			23.9	0	
507	30	*e*	9	34	43	–	–	*i* 35	04	*e* 35	06	–	–	–	–			0.01	0.01			4.3	0	
508	30	*e*	19	38	48	–	–	*i* 39	11	–	–	–	–	–	–			0.01	–			3.7	0	

International Seismological Centre

CHIEF EARTHQUAKES OBSERVED WITH NASU'S SEISMOGRAPH, 1935.

Instrument; Nasu's seismograph with three components.

Instrumental constants

Component	V	T_0	γ/T_0^2	Mass
E–W	25	6.1	0.007	7.2 kgr.
N–S	25	6.0	0.013	7.2
Vertical	25	5.3	0.048	4.4

Remarks:

1. Direction of the earth's displacement; positive towards north, east, and upward respectively.
2. ⊕ Out of the range of the instrument.
3. × Too feeble to measure.
4. ✳ Out of order of the instrument.

No.	Date	P mean of 3 comp.	S mean of 3 comp.	Maximum Amplitude E–W	Maximum Amplitude N–S	Maximum Amplitude Vertical	First Motion E–W	First Motion N–S	First Motion Vertical	Epicenter	
		h m s	m s	μ	μ	μ	μ	μ	μ		
14	Jan. 19	11 15 07	15 37	+ 280	− 332	− 142	×	×	+ 8	λ_E=143°.7,	φ_E=41°.0
16	20	16 54 51	55 05	+ 120	+ 98	+ 57	+ 10	− 11	− 24	141°.6	38°.7
45	Feb. 19	20 11 19	12 05	+ 328	+ 466	− 184	×	×	×	140°.6	35°.7
61	Mar. 7	10 27 16	27 41	− 510	− 558	− 300	+ 18	− 12	+ 24	139°.6	40°.0
80	30	21 20 13	20 36	⊕	⊕	⊕	− 56	+ 120	?	141°.6	37°.4
87	Apr. 4	13 22 16	22 42	− 130	− 200	+ 144	0	+ 4	+ 6	141°.4	37°.3
96	11	15 25 41	26 07	+ 160	− 210	+ 100	×	×	×	140°.7	36°.8
122	May 23	2 10 17	10 31	+ 186	+ 236	− 100	+ 20	− 20	− 44	142°.3	38°.2
133	31	8 20 12	21 23	+ 360	− 512	+ 80	− 40	+ 24	− 24	134°.2	38°.6 [deep]
156	June 28	18 58 57	59 45	+ 424	+ 266	− 90	×	×	×	140°.3	34°.8
176	July 11	8 26 01	27 06	+ 440	+ 740	+ 180	− 14	− 24	− 10	138°26′	34°59′
186	19	0 50 27	51 04	⊕	⊕	⊕	+ 4	− 44	− 20	141°.3	36°.65
225	Aug. 17	7 23 32	23 53	− 260	+ 336	+ 166	− 10	+ 32	+ 40	141°.6	37°.2
228	21	11 29 18	29 31	− 60	+ 70	− 40	+ 4	+ 6	− 4		
235	27	14 30 46	31 12	+ 380	+ 320	+ 200	− 20	− 2	+ 10	143°.0	39°.5
271	Sept. 11	14 05 30	06 30	−2320	✳	+ 860	+ 32	+ 28	− 8	145°.1	42°.7
285	18	8 24 45	25 24	−1480	+1080	− 422	+ 24	+ 40	− 28	142°.6	42°.0
286	18	8 51 00	51 39	+ 384	+ 608	+ 206	− 40	− 80	+ 20	142°.6	42°.0
287	18	20 09 56	10 27	− 492	− 700	+ 270	+ 20	+ 16	− 28	142°.8	41°.1
314	Oct. 2	5 34 26	35 29	+ 828	✳	− 436	+ 4	×	− 4	145°.8	42°.9
319	12	16 45 55	46 24	⊕	⊕	⊕	− 48	− 28	+ 32	143°.3	40°.4
320	12	17 01 00	01 24	⊕	−2380	− 490	+ 200	+ 184	− 84	143°.2	40°.2
326	12	18 14 42	15 03	−1728	−2092	+ 400	− 48	− 16	+ 24	143°.0	40°.1
336	13	1 58 06	58 32	−1892	+1872	− 740	− 20	− 20	+ 24	143°.4	40°.2
381	18	14 54 32	55 08	+1325	+1615	− 840	− 128	− 76	+ 80	143°.9	40°.4
384	18	21 52 05	52 39	+1445	−1325	+ 589	− 44	− 32	+ 40	143°.5	40°.0
408	24	16 45 47	45 58	+ 60	+ 98	+ 36	×	×	×	141°.8	38°.7
416	30	2 04 47	05 17	− 210	− 180	+ 140	×	×	×	143°.1	41°.5
444	Nov. 13	20 04 16	04 25	− 100	− 76	+ 80	+ 18	− 8	− 32	141°.9	39°.0
446	15	9 57 22	57 36	− 80	− 88	+ 30	− 8	+ 12	+ 24	141°.6	37°.9
490	Dec. 17	19 22 19	26 12	− 84	+ 360	− 20	− 16	− 20	− 20	125°.3	23°.9
496	20	5 47 17	47 46	− 132	− 180	− 86	×	×	×	141°.4	36°.7

PULSATORY OSCILLATIONS, 1935 (*EW Component.*)

International Seismological Centre

No.	Beginning			Ending			Maximum				
	Date			Date			Date				Double Amplitude
	Month	Day	Hour	Month	Day	Hour	Day	Hour	Day	Hour	
											μ
1	January	4	3	January	6	12	4	21	4	23	7
2		10	21		11	24	11	6	11	8	10
3		14	21		20	4	16	23	17	2	20
4		21	16		25	17	22	0	22	3	5
5		31	1	February	2	1	1	2	1	4	3
6	February	4	2		9	7	7	14	7	16	2
7		10	8		12	14	11	7	11	9	6
8		22	11		24	2	22	23	24	1	2
9	March	4	23	March	8	10	6	22	6	24	4
10		9	11		11	16	10	18	10	20	5
11		16	1		17	18	16	13	16	15	10
12		19	2		21	3	20	5	20	7	5
13		24	0		27	23	25	0	25	8	30
14	April	1	20	April	3	14	2	7	2	10	4
15		4	23		6	22	5	17	5	19	5
16		10	1		12	16	11	20	11	23	6
17		14	19		16	18	15	13	15	15	31
18		17	22		18	20	18	9	18	11	4
19		22	21		24	9	23	7	23	9	5
20		29	5		30	15	30	7	30	11	10
21		30	21	May	3	8	1	19	1	22	8
22	May	14	20		16	24	15	21	15	23	3
23		18	22		19	15	19	5	19	7	2
24	June	4	6	June	6	19	4	22	4	24	3
25		16	15		19	14	17	9	17	11	3
26	July	17	2	July	20	4	18	5	18	8	3
27	August	6	10	August	7	10	6	17	6	20	3
28		29	0		30	16	30	4	30	6	8
29	September	9	12	September	11	13	10	13	10	16	13
30		13	19		14	23	14	3	14	5	10
31		23	0		27	15	25	5	25	9	19
32	October	26	2	October	30	3	27	21	27	23	18
33	November	2	16	November	3	20	3	6	3	8	2
34		4	15		6	11	5	23	6	2	6
35		10	2		11	10	10	21	10	24	5
36		11	18		13	14	12	1	12	3	6
37		15	10		17	8	16	6	16	8	14
38		19	17		20	19	20	1	20	4	3
39		21	23		23	22	23	0	23	3	6
40		25	1		27	18	26	9	26	11	9
41	December	1	11	December	3	14	2	4	2	6	12
42		8	4		10	2	8	18	8	21	12
43		10	18		12	12	11	14	11	17	4
44		17	14		20	16	18	18	18	20	11
45		28	23		31	9	30	5	30	7	4