International Seismological Centre

UNIVERSITY OF CALIFORNIA
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ANNUAL REPORT

OF THE

METEOROLOGICAL

AND THE

SEISMOLOGICAL OBSERVATIONS

MADE AT THE

INTERNATIONAL LATITUDE OBSERVATORY

OF MIZUSAWA

FOR

THE YEAR 1939.

JUL 2 1941

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

HEIGHT ABOVE MEAN SEA LEVEL 61 METRES.

PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA.

1940.

1939

International Seismological Centre

The present report gives the results of the meteorological and seismological observations made at this observatory during the year 1939. No alteration has been made in the nature and methods of observation.

The observations and calculations were made by Messrs. M. Kirita, S. Satô, I. Kumagai, and K. Suzuki 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.……From the beginning to the end of January.
16.5 m " " ……Since the beginning of February.

Wind vane—16.6 m above the ground.

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

●	Rain	V	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	Ψ	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* and the observing house are found in the annual reports for the years 1902, 1904, 1905, 1910, 1916, 1925, 1936, and 1937.

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

April, 1940

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

International Seismological Centre

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.

EARTHQUAKES, 1939.

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No.	Date 1939	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		μ		μ		m s		
1	Jan. 1	e 12 14 20		– –		i 14 53		e 14 51		– –		– –		+ 6		–		3 04	0	Off Cape Sioya
2	1	e 18 30 25		e 30 26		i 30 50		i 30 50		– –		– –		– 15		+ 23		3 59	0	E off Cape Sioya
3	2	e 12 04 53		– –		e 05 19		– –		– –		– –		–		–		2 59	0	
4	2	e 22 52 10		– –		e 52 39		– –		– –		– –		– 5		–		3 10	0	
5	3	e 4 53 12		– –		53 28		e 53 30		– –		– –		± 5		–		2 36	0	E off Hukusima Pref.
6	3	6		– –		e 38 28		– –		– –		– –		–		–		2 29	0	
7	3	15		– –		e 11 00		– –		– –		– –		–		–		2 15	0	
8	4	e 4 20 44		– –		21 12		e 21 12		– –		– –		–		–		3 44	0	E off Hukusima Pref.
9	4	e 6 00 11		– –		00 36		e 00 36		– –		– –		–		–		2 51	0	〃 〃
10	4	e 9 56 40		– –		57 07		e 57 10		– –		– –		–		–		2 55	0	
11	5	e 8 05 21		– –		05 52		– –		– –		– –		+ 11		–		4 18	0	ESE off Kinkwasan
12	5	e 9 19 58		– –		20 38		e 20 40		– –		– –		– 10		–		5 14	0	Off Cape Sioya
13	5	e 11 54 37		– –		55 12		– –		– –		– –		–		–		3 15	0	〃 〃
14	5	13 04 57		– –		i 05 25		e 05 26		– –		– –		+ 10		–		3 58	0	E off Cape Sioya
15	5	e 15 28 44		– –		i 29 09		e 29 12		– –		– –		– 18		+ 25		4 38	0	SE off Kinkwasan
16	5	20		– –		e 34 58		– –		– –		– –		–		–		2 14	0	
17	6	e 15 45 27		– –		i 45 55		e 45 56		– –		– –		+ 6		–		4 58	0	
18	6	e 18 07 01		– –		i 07 29		– –		– –		– –		+ 8		–		4 10	0	Kasima-nada
19	7	i 13 14 57		14 56		i 15 22		i 15 22		– –		– –		– 27		– 35		5 31	0	NE off Cape Sioya
20	7	i 13 40 18		e 40 18		i 40 36		40 36		– –		– –		+ 7		–		2 40	0	Off Miyako
21	8	e 1 01 08		– –		01 31		e 01 30		– –		– –		– 10				3 57	0	Off Cape Sioya
22	8	e 6 10 26		– –		10 46		– –		– –		– –		–		–		2 18	0	
23	8	e 14 18 23		– –		18 45		– –		– –		– –		–		–		3 31	0	
24	10	e 7 36 41		– –		i 36 57		– –		– –		– –		– 5		–		1 55	0	
25	10	e 12 10 31		e 10 35		i 11 31		e 11 31		– –		– –		+ 33		+ 53		9 19	0	Off Kamikomotosima
26	11	e 2 53 31		e 53 31		i 54 05		i 54 07		– –		– –		– 48		+ 78		7 28	0	NE off Cape Inubô
27	11	5 02 04		e 02 07		i 02 24		i 02 24		– –		– –		– 11		–		3 33	0	Off the mouth of R. Ukedo
28	12	e 6 00 39		– –		01 21		e 01 22		– –		– –		+ 7		–		6 02	0	Near Kasumigaura
29	12	23		– –		e 16 10		– –		– –		– –		–		–		0 53	0	
30	13	e 2 15 38		– –		15 50		– –		– –		– –		–		–		1 33	0	
31	13	22 22 34		22 34		i 23 02		23 01		– –		– –		–114		+140		9 53	0	SE off Cape Siriya
32	14	10 45 30		45 33		i 46 02		i 46 05		– –		– –		– 11		+ 23		5 23	0	SE off Cape Sioya
33	14	e 11 16 05		– –		e 16 29		– –		– –		– –		–		–		3 42	0	
34	14	e 14 13 10		– –		13 30		– –		– –		– –		–		–		1 50	0	
35	14	e 18 25 05		– –		25 20		– –		– –		– –		–		–		1 54	0	
36	15	16		– –		? 16 08		– –		– –		– –		–		–		2 10	0	
37	15	22 29 23		– –		i 29 35		e 29 35		– –		– –		–		–		1 40	0	
38	16	0 ⊕		i 10 37		⊕ –		i 10 48		– –		– –		–		–300		7 27	2	NE off Kinkwasan
39	16	e 11 32 33		– –		33 04		– –		– –		– –		–		–		3 48	0	
40	18	e 0 43 50		– –		44 05		e 44 03		– –		– –		–		–		1 44	0	
41	18	14		– –		e 42 07		– –		– –		– –		–		–		2 04	0	
42	19	e 0 20 52		– –		21 28		– –		– –		– –		– 6		–		3 22	0	
43	19	? 5 34 54		– –		? 35 27		– –		– –		– –		–		–		2 22	0	
44	19	? 16 15 18		– –		i 15 40		e 15 40		– –		– –		–		–		2 10	0	
45	19	? 21 26 46		– –		? 27 04		– –		– –		– –		–		–		2 28	0	
46	20	e 22 12 38		– –		i 13 11		13 10		– –		– –		+ 3		–		2 47	0	
47	20	e 22 16 48		– –		17 31		– –		– –		– –		– 6		–		6 12	0	
48	20	23		– –		? 14 21		– –		– –		– –		–		–		1 19	0	
49	21	e 18 51 56		– –		52 17		e 52 17		– –		– –		+ 5		–		3 39	0	
50	22	e 3 22 54		⊀ –		23 22		⊀ –		– –		– –		–		–		4 01	0	
51	22	e 4 45 36		⊀ –		? 50 48		– –		– –		– –		+ 5		–		13 57	0	Distant
52	22	10		– –		e 56 29		– –		– –		– –		–		–		2 28	0	
53	22	? 11 13 18		? 13 22		– –		– –		– –		– –		+ 6		–		11 12	0	
54	22	11		– –		e 26 44		– –		– –		– –		–		–		2 15	0	
55	23	e 3 57 37		– –		i 57 54		e 57 53		– –		– –		–		–		2 11	0	

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No.	Date 1939	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			μ		μ		m	s		
56	Jan. 23	e13	36	00		–	–			i36	21			–	–			–		–		3	47	0	
57	23	e16	18	24		–	–			e18	50	e18	51	–	–	–	–	–		–		2	25	0	E off Cape Siriya
58	23	e18	22	37		e22	37			23	25	23	24	–	–	–	–	+ 25		— 53		9	06	0	SE off Kinkwasan
59	24	i 4	02	19		i02	20			i02	46	i02	45	–	–	–	–	— 550		— 975		15	20	2	E off Cape Sioya
60	24	e13	18	25		–	–			18	52	–	–	–	–	–	–	–		–		1	52	0	
61	24	18	09	17		e09	16			i09	43	09	41	–	–	–	–	+ 42		— 43		8	18	0	SE off Cape Sioya
62	25	3	52	08		e52	11			62	05	–	–	?101	44	?102	54		–		–	126	53	0	Chile (distant)
63	25	e 9	08	35		–	–			e08	52	–	–	–	–	–	–		–		–	1	27	0	
64	25	e12	46	35		–	–			e47	09	–	–	–	–	–	–		–		–	3	17	0	
65	25	14				–	–			e58	04	–	–	–	–	–	–		–		–	1	46	0	
66	25	e17	27	35		–	–			e28	14	–	–	–	–	–	–	— 3		–		4	08	0	
67	26	e 0	55	10		–	–			e55	26	–	–	–	–	–	–		–		–	1	37	0	
68	26	e12	31	43		–	–			32	09	–	–	–	–	–	–	— 3		–		2	19	0	
69	26	i15	54	31		e54	33			i54	48	i54	49	–	–	–	–	± 31		–		4	03	0	E off Hukusima pref.
70	26	23				–	–			–	–	–	–	–	–	–	–	–		–		0	43	0	
71	27	e10	39	21		e39	23			40	45	e40	46	–	–	–	–	+ 10		–		9	15	0	NE off Hatizyô I.
72	28	e11	20	42		–	–			i20	54	e20	53	–	–	–	–		–		–	1	37	0	
73	28	18				–	–			e40	44	–	–	–	–	–	–		–		–	1	15	0	
74	28	23	06	44		06	41			i07	58	i07	56	–	–	–	–	+ 17		— 23		5	20	0	SE off Cape Otisi
75	29	7				–	–			e52	40	–	–	–	–	–	–	–		–		2	38	0	
76	29	e11	39	03		–	–			e39	37	–	–	–	–	–	–		–		–	3	35	0	
77	29	16	54	24		e54	28			i54	48	i54	50	–	–	–	–	+ 18		— 58		4	34	0	ESE off Cape Siriya
78	30	2	27	10		27	08			34	01	34	00	37	52	37	44	⊕		—2248		92	09	0	Distant
79	30	e 4	09	57		–	–			10	16	10	16	–	–	–	–	+ 6		–		2	58	0	
80	30	e 6	26	42		–	–			27	07	e27	12	–	–	–	–	— 6		–		4	03	0	Middle part of Kasima-nada
81	30	e19	21	26		–	–			21	46	e21	46	–	–	–	–	— 6		–		3	33	0	
82	30	19				–	–			26	46	–	–	–	–	–	–	–		–		1	27	0	
83	30	23	58	28		58	27			i64	50	i64	50	69	27	69	42	+ 14		–		26	00	0	Distant
84	31	5				–	–			e32	31	–	–	–	–	–	–	–		–		2	49	0	
85	31	i16	51	34		51	36			i51	54	i51	55	–	–	–	–	— 21		— 35		5	16	0	E off Hukusima pref.
86	Feb. 1	e 5	26	09		–	–			26	45	–	–	–	–	–	–	+ 8		–		4	31	0	Near Yuki
87	1	11	22	53		e22	53			i23	19	23	21	–	–	–	–	+ 19		–		5	11	0	E off Hukusima pref.
88	1	e11	44	22		–	–			44	56	–	–	–	–	–	–		–		–	2	34	0	Off the mouth of R. Niikappu
89	1	e14	34	08		–	–			34	27	–	–	–	–	–	–		–		–	2	14	0	
90	2	5				–	–			e04	57	–	–	–	–	–	–		–		–	1	46	0	
91	2	e15	53	10		e53	12			i53	35	i53	35	–	–	–	–	— 11		–		4	48	0	E off Hukusima pref.
92	2	e16	09	21		–	–			09	43	–	–	–	–	–	–		–		–	1	48	0	
93	3	5	35	22		e35	21			42	38	42	41	48	31	48	40	+ 15		+ 130		69	44	0	Distant
94	5	i18	42	02		e42	01			i42	18	i42	18	–	–	–	–	+ 35		— 50		3	59	0	
95	6	e17	10	32		–	–			11	26	–	–	–	–	–	–	+ 9		–		4	35	0	
96	7	?14	11	42		–	–			12	59	?12	57	–	–	–	–	+ 10		–		13	37	0	ESE off Hatizyô I.
97	7	?10	09	29		–	–			09	56	–	–	–	–	–	–		–		–	3	53	0	
98	7	e18	31	52		–	–			32	24	–	–	–	–	–	–	— 10		–		5	59	0	Kasima-nada
99	8	e15	17	23		e17	22			i17	59	17	58	–	–	–	–	— 52		+ 75		8	16	0	〃 〃
100	9	e 0	20	54		–	–			21	26	–	–	–	–	–	–	–		–		2	47	0	
101	9	e11	01	26		–	–			01	41	e01	44	–	–	–	–	–		–		2	52	0	
102	10	e12	27	06		–	–			i28	33	e28	32	–	–	–	–	— 6		–		6	12	0	SE off Hatizyô I.
102	10	e15	49	53		e49	54			i50	15	50	16	–	–	–	–	+ 13		–		4	11	0	Off Cape Sioya
104	11	e 0	06	53		–	–			07	26	–	–	–	–	–	–	–		–		2	47	0	
105	11	e 3	31	04		–	–			31	25	–	–	–	–	–	–	–		–		2	57	0	
106	11	e20	31	34		e31	33			i32	38	32	38	–	–	–	–	+ 10		–		6	03	0	Near Sekigahara
107	12	e 0	55	57		–	–			e56	04	–	–	–	–	–	–	–		–		1	33	0	
108	12	e 8	51	08		–	–			51	39	–	–	–	–	–	–	+ 4		–		3	32	0	
109	12	e21	51	15		–	–			i51	27	e51	25	–	–	–	–	–		–		1	27	0	
110	13	i13	33	08		33	07			i33	20	i33	18	–	–	–	–	— 125		+ 108		4	56	0	Near Yokote (Akita)

EARTHQUAKES, 1939.

International Seismological Centre

No.	Date 1939	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	μ		μ		m	s						
111	Feb. 13	18				–	–	*e* 10	55	–	–	–	–		–		–	1	12	0	
112	14	14				–	–	*e* 14	57	–	–	–	–		–		–	1	39	0	
113	15	*e* 9	59	51		–	–	60	11	*e* 60	11	–	–	–	–	+	4		–	2	12	0	
114	16	*i* 18	51	43		*i* 51	42	*i* 52	09	*i* 52	12	–	–	–	–		⊕		+2688	35	39	1	ESE off Cape Sioya
115	16	*e* 22	22	37		–	–	*i* 22	58	22	57	–	–	–	–	—	8		–	3	16	0	Off Cape Sioya
116	16	*e* 23	39	22		*e* 39	23	*i* 39	36	39	36	–	–	–	–	—	13		–	3	10	0	Near Lake Tazawa
117	17	*e* 0	22	39		–	–	*i* 23	02	*e* 23	02	–	–	–	–	+	6		–	2	56	0	Off Cape Sioya
118	17	*e* 4	20	54		–	–	*i* 21	15	*e* 21	14	–	–	–	–	+	6		–	2	43	0	〃 〃
119	17	*e* 6	46	13		*e* 46	14	*i* 46	32	46	34	–	–	–	–	—	14	+	18	6	29	0	〃 〃
120	17	*e* 10	10	40		–	–	10	58	–	–	–	–	–	–		–		–	2	10	0	
121	17	*e* 19	13	57		–	–	14	15	*e* 14	17	–	–	–	–	—	5		–	3	15	0	
122	17	*e* 20	58	57		*e* 58	57	59	30	*e* 59	31	–	–	–	–	—	6		–	3	12	0	Off Miyako
123	17	*e* 21	42	54		–	–	43	06	–	–	–	–	–	–		–		–	2	00	0	
124	18	*e* 9	14	15		–	–	14	32	*e* 14	33	–	–	–	–		–		–	2	11	0	E off Hukusima Pref.
125	18	*i* 9	18	56		*i* 18	55	*i* 19	13	*i* 19	14	–	–	–	–	+	68	+	95	7	01	1	〃 〃
126	18	*i* 11	30	50		*i* 30	52	*i* 31	22	*i* 31	23	–	–	–	–	—	50	—	58	7	58	0	E off Hatinohe
127	18	*e* 13	13	30		–	–	13	59	–	–	–	–	–	–		–		–	2	52	0	
128	18	*e* 17	53	36		*e* 53	39	*i* 53	59	*i* 53	59	–	–	–	–	+	25	+	35	5	10	0	E off Hukusima Pref.
129	19	*e* 8	16	12		–	–	16	47	16	46	–	–	–	–	—	9		–	5	15	0	E off Miyako
130	20	*e* 22	09	01		–	–	*i* 09	32	*e* 09	32	–	–	–	–	—	6		–	3	13	0	
131	20	? 23	57	08		–	–	57	28	–	–	–	–	–	–		–		–	1	35	0	
132	21	4				–	–	*e* 14	07	–	–	–	–	–	–		–		–	1	20	0	
133	22	*e* 0	29	47		–	–	30	09	*e* 30	10	–	–	–	–		–		–	2	35	0	
134	22	11				–	–	? 37	10	–	–	–	–	–	–		–		–	1	00	0	
135	23	5				–	–	*e* 46	50	–	–	–	–	–	–		–		–	1	27	0	
136	23	*i* 18	58	04		*i* 58	03	*i* 58	41	*i* 58	39	–	–	–	–	—	66	+	85	8	51	0	Off Kuzi. (Iwate)
137	23	*e* 19	26	31		–	–	26	58	*e* 26	58	–	–	–	–	—	5		–	2	52	0	
138	24	? 1	24	33		–	–	? 26	03	? 26	03	–	–	–	–		–		–	4	45	0	
139	24	*e* 9	56	03		–	–	56	25	–	–	–	–	–	–		–		–	2	31	0	
140	24	13				–	–	? 09	04	–	–	–	–	–	–		–		–	1	24	0	
141	24	14	23	28		*e* 23	30	? 26	20	? 26	27	–	–	–	–		–		–	8	26	0	
142	24	16				–	–	*e* 49	47	–	–	–	–	–	–		–		–	1	34	0	
143	25	*e* 6	54	19		–	–	54	42	–	–	–	–	–	–		–		–	2	03	0	
144	25	*e* 22	40	24		–	–	*e* 40	41	–	–	–	–	–	–		–		–	2	00	0	
145	26	*e* 14	10	11		*e* 10	11	*i* 10	38	*e* 10	37	–	–	–	–	—	15		–	4	28	0	S off Cape Erimo
146	26	16				–	–	*e* 20	19	–	–	–	–	–	–		–		–	2	40	0	
147	28	? 2	43	58		? 43	55	? 47	36	? 47	48	–	–	–	–		–		–	12	53	0	
148	28	*e* 17	19	27		–	–	19	54	*e* 19	53	–	–	–	–		–		–	4	14	0	
149	Mar. 1	*e* 6	51	55		–	–	*i* 52	34	*e* 52	32	–	–	–	–	+	10		–	5	53	0	SE off Kusiro
150	1	*e* 15	22	37		*e* 22	37	23	00	23	•02	–	–	–	–	—	11		–	5	00	0	E off Hukusima Pref.
151	1	*e* 15	36	37		–	–	37	02	*e* 37	04	–	–	–	–	—	8		–	4	25	0	〃 〃
152	2	4				–	–	*e* 16	42	–	–	–	–	–	–	+	4		–	2	57	0	
153	2	7	08	19		? 08	13	? 14	21	? 14	29	–	–	–	–	+	7		–	21	18	0	
154	2	22				–	–	*e* 37	45	–	–	–	–	–	–		–		–	1	09	0	
155	2	*e* 23	12	05		–	–	12	30	*e* 12	29	–	–	–	–	—	5		–	4	54	0	
156	3	22	52	49		*e* 52	48	*i* 53	21	*e* 53	22	–	–	–	–	—	10	—	23	4	46	0	E off Hukusima Pref.
157	4	*i* 8	49	47		*i* 49	47	*i* 49	56	*i* 49	56	–	–	–	–	±	15	±	40	2	53	0	Sizugawa Bay
158	4	*e* 9	10	11		–	–	*i* 10	46	–		–	–	–	–	—	4		–	4	01	0	
159	4	*e* 10	19	56		–	–	*i* 20	40	*i* 20	41	–	–	–	–	—	14		–	4	39	0	E off Cape Erimo
160	4	*e* 14	03	36		–	–	*e* 04	01	–	–	–	–	–	–		–		–	2	53	0	
161	5	5				–	–	11	06	–	–	–	–	–	–		–		–	1	13	0	
162	5	6	19	16		*e* 19	19	*i* 19	36	19	36	–	–	–	–	—	6		–	3	33	0	E off Hukusima pref.
163	6	*e* 3	12	35		–	–	12	54	–	–	–	–	–	–	—	5		–	2	26	0	
164	6	? 14	10	37		–	–	*e* 10	57	–	–	–	–	–	–		–		–	3	57	0	
165	6	*e* 22	09	11		–	–	*i* 09	43	*e* 09	43	–	–	–	–	—	8		–	3	43	0	ESE off Kinkwasan

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No.	Date 1939	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		μ		μ		m s		
166	Mar. 7	*i* 15 17 25		*i* 17 26		*i* 17 55		*i* 17 55		– –		– –		+ 166		— 272		20 42	0	SE off Cape Erimo
167	7	*e* 23 58 46		– –		*i* 59 20		59 21		– –		– –		+ 28		— 45		7 03	0	NE off Cape Erimo
168	8	6		– –		*e* 58 09		– –		– –		– –		–		–		2 57	0	
169	8	16		– –		*e* 39 25		– –		– –		– –		–		–		2 26	0	
170	8	*e* 22 07 01		? 06 33		14 08		? 14 08		– –		– –		–		–		19 53	0	Distant
171	9	1 27 10		*e* 27 09		*i* 27 33		*i* 27 32		– –		– –		— 41		+ 53		6 26	0	E off Cape Sioya
172	9	5 – –		– –		*e* 15 20		– –		– –		– –		–		–		1 09	0	
173	9	18 13 22		13 24		*i* 13 58		*i* 13 58		– –		– –		+ 31		+ 50		7 10	0	Near Simoyûki
174	9	? 22 11 52		– –		? 12 00		– –		– –		– –		–		–		1 20	0	
175	10	*e* 2 48 16		? 48 18		*e* 52 28		? 52 29		– –		– –		–		–		11 00	0	Distant
176	10	*e* 3 02 21		*e* 02 24		*e* 06 59		? 06 38		– –		– –		–		–		41 26	0	〃
177	10	*e* 19 45 13		– –		45 38		*e* 45 37		– –		– –		— 7		–		5 18	0	
178	10	21 59 26		– –		*i* 60 42		*e* 60 45		– –		– –		— 11		–		15 35	0	SW off Hatizyô I.
179	10	23 28 10		– –		*i* 28 35		*e* 28 34		– –		– –		— 10		–		4 07	0	ENE off Cape Sioya
180	11	13 43 54		– –		*i* 44 24		*e* 44 24		– –		– –		+ 11		— 10		6 36	0	ESE off Miyako
181	12	16 55 07		– –		*i* 55 37		55 38		– –		– –		— 18		+ 25		8 23	0	NE off Kinkwasan.
182	15	*e* 0 56 43		– –		*i* 57 30		*e* 57 31		– –		– –		+ 14		— 25		4 35	0	Off Cape Sioya
183	15	*e* 1 35 40		*e* 35 40		36 08		*e* 36 07		– –		– –		— 9		–		5 38	0	E off Hukusima pref.
184	16	*e* 14 42 43		– –		43 06		*e* 43 07		– –		– –		–		–		2 56	0	
185	16	*e* 22 15 40		– –		16 19		*e* 16 17		– –		– –		+ 5		–		4 33	0	
186	19	*e* 9 04 43		– –		05 31		05 33		– –		– –		— 4		–		5 15	0	
187	19	*e* 11 20 50		*e* 20 50		*i* 21 44		21 42		– –		– –		+ 11		— 25		6 27	0	Middle part
188	19	13		– –		*e* 56 18		– –		– –		– –		–		–		2 40	0	of Kuzyukuri-hama
189	20	*i* 3 24 57		*i* 24 57		*i* 27 09		*i* 27 07		– –		– –		+ 189		+ 388		31 46	0	N part of Hyuga-nada
190	20	6 52 43		*e* 52 44		*i* 53 16		53 15		– –		– –		— 25		+ 28		7 59	0	E off Cape Sioya
191	20	7		– –		*e* 04 00		– –		– –		– –		–		–		3 08	0	
192	21	*i* 1 21 28		*e* 21 27		29 56		29 55		37 17		37 05		— 10		— 165		51 04	0	Distant
193	21	*e* 9 34 33		– –		*e* 34 43		– –		– –		– –		–		–		1 28	0	
194	21	10 05 54		*e* 05 53		*i* 06 10		*e* 06 10		– –		– –		— 15		–		3 44	0	NNE off Miyako
195	21	*e* 17 58 18		– –		58 43		– –		– –		– –		–		–		2 57	0	
196	22	*e* 3 26 42		– –		27 02		*e* 27 03		– –		– –		+ 5		–		3 36	0	
197	22	3 53 48		*e* 53 46		60 23		60 24		– –		– –		–		–		18 18	0	Distant
198	22	4 40 01		39 59		*i* 40 36		*e* 40 36		– –		– –		+ 15		— 20		5 56	0	Off Cape Sioya
199	22	*e* 9 04 06		– –		04 17		*e* 04 14		– –		– –		–		–		1 48	0	
200	22	*e* 13 33 26		– –		33 50		*e* 33 51		– –		– –		–		–		3 12	0	
201	22	*e* 15 50 37		– –		*i* 50 58		*e* 51 00		– –		– –		–		–		3 15	0	
202	22	*e* 22 02 36		– –		*i* 02 59		– –		– –		– –		–		–		2 46	0	
203	23	*i* 7 39 53		39 53		*i* 40 08		*i* 40 09		– –		– –		+ 130		— 188		7 46	0	E off Kinkwasan
204	23	*e* 10 30 24		– –		30 44		– –		– –		– –		–		–		2 59	0	
205	23	11		– –		*e* 06 54		– –		– –		– –		–		–		1 05	0	
206	23	*e* 23 49 47		– –		50 08		– –		– –		– –		— 4		–		5 18	0	
207	24	4 14 26		*e* 14 27		*i* 14 56		*i* 14 56		– –		– –		+ 16		+ 23		5 10	0	E off Cape Siriya
208	24	4 34 58		*e* 34 57		*i* 35 27		35 26		– –		– –		+ 25		— 25		6 11	0	E off Cape Sioya
209	24	5 30 01		*e* 29 59		*i* 30 30		30 31		– –		– –		— 7		–		4 21	0	ESE off 〃 〃
210	24	*e* 7 00 38		– –		01 08		*e* 01 10		– –		– –		— 3		–		2 58	0	
211	24	*e* 12 32 00		– –		32 11		– –		– –		– –		–		–		3 01	0	
212	25	*e* 2 27 46		– –		28 07		– –		– –		– –		–		–		3 19	0	E off Hukusima pref.
213	26	*e* 0 52 30		*e* 52 28		*i* 53 29		*i* 53 30		– –		– –		— 6		–		7 33	0	S part of Kuzyukuri-
214	27	*e* 15 02 03		– –		02 28		– –		– –		– –		— 14		+ 25		2 05	0	hama
215	28	*e* 0 53 04		– –		53 16		– –		– –		– –		–		–		1 14	0	
216	28	*e* 13 29 16		– –		29 50		*e* 29 52		– –		– –		–		–		3 21	0	
217	28	17		– –		*e* 57 00		– –		– –		– –		–		–		2 03	0	
218	29	*e* 0 26 16		– –		*e* 32 44		– –		– –		– –		–		–		13 38	0	
219	29	*e* 11 17 13		– –		*i* 17 46		*e* 17 43		– –		– –		–		–		4 03	0	
220	29	*e* 14 50 01		– –		50 26		– –		– –		– –		— 5		–		3 30	0	

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No.	Date 1939	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		μ		μ		m s		
221	Mar. 31	7 19 22		19 21		*i* 20	12	*i* 20	11	–	–	–	–	— 130		— 150		7 37	0	SE off Kusiro
222	Apr. 2	7		– –		*e* 33	13	–	–	–	–	–	–	–		–		1 39	0	
223	3	*e* 1 29 03		– –		29	20	–	–	–	–	–	–	— 3		–		3 53	0	
224	3	*e* 11 19 55		– –		*e* 20	26	*e* 20	28	–	–	–	–	–		–		3 24	0	
225	4	*e* 3 26 48		– –		27	16	–	–	–	–	–	–	–		–		3 27	0	
226	4	6		– –		*e* 34	21	–	–	–	–	–	–	–		–		1 08	0	
227	4	*e* 7 01 52		– –		02	13	*e* 02	13	–	–	–	–	–		–		2 23	0	
228	5	*e* 1 25 39		*e* 25	42	26	04	*e* 26	04	–	–	–	–	–		–		3 13	0	E off Cape Sioya
229	5	*e* 16 53 18		*e* 53	17	*e* 61	53	*e* 61	51	*e* 69	04	*e* 69	04	— 6		+ 68		52 35	0	Distant
230	6	2		– –		? 35	19	–	–	–	–	–	–	–		–		3 15	0	
231	6	? 3 19 25		– –		20	25	–	–	–	–	–	–	–		–		4 57	0	
232	6	*e* 5 04 03		– –		04	28	*e* 04	28	–	–	–	–	–		–		2 25	0	
233	6	8		– –		? 32	08	–	–	–	–	–	–	–		–		1 30	0	
234	7	*e* 6 30 57		– –		31	27	*e* 31	26	–	–	–	–	–		–		2 39	0	
235	7	16 05 13		*e* 05	12	05	56	05	57	–	–	–	–	+ 16		–		7 44	0	SE off Cape Inubô
236	8	? 12 02 30		– –		02	49	–	–	–	–	–	–	–		–		1 59	0	
237	9	*e* 8 16 04		– –		*i* 16	36	*e* 16	37	–	–	–	–	+ 10		–		3 56	0	Off the mouth of R.
238	9	? 15 18 58		– –		? 19	26	–	–	–	–	–	–	–		–		2 36	0	Niikappu
239	9	*e* 15 46 14		– –		*i* 46	27	–	–	–	–	–	–	–		–		1 42	0	
240	10	*e* 11 26 13		*e* 26	13	*i* 27	07	27	07	–	–	–	–	— 14		–		4 59	0	S off Cape Otisi
241	10	12 46 45		– –		*i* 47	06	–	–	–	–	–	–	— 3		–		2 16	0	
242	10	19		– –		*e* 29	17	–	–	–	–	–	–	–		–		1 32	0	
243	11	*e* 21 49 50		– –		*i* 50	41	50	40	–	–	–	–	–		–		3 36	0	Near Mt. Ontake
244	11	22 01 51		*e* 01	52	*i* 02	09	02	08	–	–	–	–	— 14		–		3 38	0	Off Kuzi (Iwate)
245	12	17 15 42		*e* 15	42	*i* 16	04	16	06	–	–	–	–	— 16		+ 28		6 00	0	SE off Kinkwasan
246	12	23		– –		*e* 13	24	–	–	–	–	–	–	–		–		1 40	0	
247	13	8		– –		? 11	30	–	–	–	–	–	–	–		–		1 32	0	
248	13	15		– –		*e* 25	22	–	–	–	–	–	–	–		–		2 13	0	
249	14	*e* 3 23 02		*e* 23	02	*i* 23	34	23	34	–	–	–	–	+ 23		— 25		6 22	0	Kasima-nada
250	14	*e* 7 14 21		– –		*e* 14	41	–	–	–	–	–	–	–		–		2 53	0	
251	14	*e* 17 29 43		– –		30	05	*e* 30	05	–	–	–	–	+ 6		–		4 17	0	E off Cape Sioya
252	15	*e* 9 06 59		– –		*e* 08	04	*e* 08	04	–	–	–	–	–		–		13 27	0	N off Titizima
253	15	*e* 11 21 36		– –		21	47	21	48	–	–	–	–	–		–		1 29	0	
254	16	16		– –		05	47	–	–	–	–	–	–	–		–		1 42	0	
255	18	3 50 50		– –		51	23	–	–	–	–	–	–	–		–		3 30	0	
256	18	6 42 35		42	35	? 54	20	? 54	30	–	–	–	–	+ 11		— 50		128 39	0	Chile (Distant)
257	20	*e* 8 06 35		*e* 06	35	*i* 06	42	06	43	–	–	–	–	+ 6		–		2 00	0	Near Yosihama Bay (Iwate)
258	21	*e* 1 18 40		– –		*e* 19	11	–	–	–	–	–	–	–		–		3 06	0	
259	21	*e* 3 13 55		– –		*i* 14	28	*e* 14	28	–	–	–	–	— 5		–		4 51	0	
260	21	*i* 4 31 09		*i* 31	09	*i* 32	46	*i* 32	47	–	–	–	–	⊕		+ 748		19 55	0	N part of Japan Sea
261	21	*i* 17 19 24		*e* 19	21	*i* 19	39	*i* 19	38	–	–	–	–	— 30		–		4 48	0	NE off Kuzi (Iwate)
262	22	10		– –		*e* 53	27	–	–	–	–	–	–	–		–		2 13	0	
263	22	11		– –		*e* 31	44	–	–	–	–	–	–	–		–		3 18	0	
264	22	*e* 12 27 33		– –		*e* 28	03	–	–	–	–	–	–	–		–		3 22	0	
265	23	*e* 9 07 48		– –		08	21	*e* 08	19	–	–	–	–	— 5		–		5 26	0	Kasima-nada
266	23	9		– –		*e* 19	15	–	–	–	–	–	–	–		–		1 38	0	
267	23	*e* 17 40 14		– –		*i* 40	58	*e* 40	56	–	–	–	–	— 11		— 20		8 07	0	Off Cape Sioya
268	23	*e* 21 01 04		– –		*i* 01	35	–	–	–	–	–	–	— 5		–		4 31	0	
269	24	8 11 14		– –		11	41	–	–	–	–	–	–	–		–		3 16	0	
270	24	9 41 18		*e* 41	19	*i* 41	40	41	40	–	–	–	–	+ 43		+ 38		6 50	0	NE off Cape Sioya
271	24	*e* 10 56 49		– –		57	10	57	10	–	–	–	–	+ 10		–		4 07	0	〃 〃
272	24	*e* 12 33 11		– –		33	40	33	40	–	–	–	–	— 14		–		4 12	0	Off Cape Sioya
273	24	13		– –		*e* 45	14	–	–	–	–	–	–	–		–		1 59	0	
274	24	*e* 23 05 34		*e* 05	35	06	22	*e* 06	22	–	–	–	–	+ 26		— 40		9 44	0	NE off Cape Sioya
275	25	*e* 4 51 34		– –		*i* 52	50	52	50	–	–	–	–	— 7		–		7 02	0	NW off Etoroff I.

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No.	Date 1939	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			μ		μ		m	s		
276	Apr. 26	e	1	42	52	–	–			43	27			–	–			–		–		3	34	0	
277	26	e	11	21	41	–	–			22	49			e 22	50			–		–		10	48	0	
278	26		18			–	–			? 36	40			e 36	40			–		–		3	03	0	
279	29	e	7	13	07	e 13		09		i 13	30			13	31			–		–		4	55	0	E off Cape Sioya
280	29	e	16	46	09	–	–			46	24			–	–			–		–		2	06	0	
281	30	e	3	04	36	e 04		36		12	21			12	07			17		22		17	20		
282	May 1	e	5	17	37	–	–			17	58			–	–			–		–		2	09	0	
283	1	e	5	48	18	–	–			48	34			–	–			–		–		3	05	0	
284	1	i	5	58	51	58		51		⊕		–		⊕		–		–		–		⊕		–	
285	1		6			–	–			? 19	26			? 19	25			–		–		3	35	0	
286	1		6			–	–			? 26	07			–	–			–		–		2	03	0	
287	1		6	28	44	28		43		29	06			29	06			–		–		+ 240	+ 223		
288	1		6			–	–			? 38	32			–	–			–		–		2	52	0	
289	1	e	6	43	28	–	–			44	51			44	51			–		–		+ 6		4	54	0	
290	1	e	6	49	27	–	–			49	45			–	–			–		–		2	58	0	
291	1	e	6	55	49	–	–			e 56	05			–	–			–		–		1	41	0	
292	1		7	03	20	e 03		17		i 03	46			i 03	44			–		–		+ 59	+ 123		
293	1	i	7	09	16	i 09		15		i 09	33			i 09	33			–		–		+ 80	— 113		
294	1	e	7	16	04	e 16		04		i 16	27			16	25			–		–		+ 11	+ 25		
295	1		7	24	01	e 23		59		i 24	18			24	16			–		–		— 12			
296	1	i	7	28	42	i 28		40		29	01			29	02			–		–		⊕		—1375	
297	1		7			–	–			e 45	58			–	–			–		–		–		–	
298	1		7			–	–			e 52	40			–	–			–		–		–		–	
299	1		7			–	–			e 55	04			–	–			–		–		–		–	
300	1		8			–	–			e 00	37			00	39			–		–		–		–	
301	1		8			–	–			e 03	44			–	–			–		–		–		–	
302	1		8			–	–			e 13	02			–	–			–		–		–		–	
303	1	e	8	29	58	–	–			e 30	14			–	–			–		–		–		–	
304	1		8			–	–			e 31	13			e 31	11			–		–		–		–	
305	1		8			–	–			e 44	56			–	–			–		–		–		–	
306	1	i	8	56	23	56		22		i 56	42			56	40			–		–		+ 41	+ 78		
307	1		9			–	–			e 07	13			–	–			–		–		–		–	
308	1		9	15	21	e 15		22		15	39			15	38			–		–		–		–	
309	1	e	9	22	59	–	–			23	18			e 23	18			–		–		+ 5		–	
310	1		9	53	44	–	–			53	58			–	–			–		–		–		–	
311	1	e	9	59	07	e 59		09		59	23			e 59	22			–		–		— 30	+ 60		
312	1		10	04	10	04		09		i 04	27			04	27			–		–		+ 28	+ 40		
313	1		10			–	–			e 32	19			–	–			–		–		— –		–	
314	1	e	10	33	04	–	–			e 33	26			–	–			–		–		— –		–	
315	1		10			–	–			e 37	44			–	–			–		–		–		–	
316	1	e	10	52	55	–	–			e 53	15			–	–			–		–		— –		–	
317	1	i	11	43	45	i 43		47		44	04			44	04			–		–		— 84	+ 123		
318	1		11	49	46	e 49		45		i 50	03			i 50	02			–		–		— 18	— 25		
319	1		11	50	58	50		59		51	19			51	20			–		–		— 415	+ 550		
320	1	e	12	06	23	–	–			e 06	44			–	–			–		–		— –		–	
321	1		12	12	16	12		18		i 12	34			i 12	35			–		–		— 42	+ 90		
322	1		12	18	23	e 18		24		i 18	44			18	44			–		–		— 11	— 28		
323	1	e	12	23	30	–	–			23	42			–	–			–		–		–		–	
324	1		12			–	–			27	29			–	–			–		–		–		–	
325	1		12			–	–			e 39	43			–	–			–		–		–		–	
326	1		12			–	–			e 54	28			–	–			–		–		–		–	
327	1	i	13	01	00	e 00		57		i 01	18			i 01	17			–		–		–		–	
328	1		13	18	55	–	–			i 19	11			e 19	09			–		–		— 25	+ 35		
329	1	i	13	43	25	i 43		26		i 43	44			i 43	43			–		–		— 5	–		
330	1	e	13	53	24	–	–			53	45			e 53	44			–		–		+ 299	— 313		
																		–		–		— 5	–		

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No.	Date 1939	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	m	s	μ	μ	μ	μ	m s		
331	May 1	e14	14	22		–	–	14	46	14	45	–	–	–	–	–	–	— 5		–		3 35	0	Oga Peninsula	
332	1		14			–	–	e39	13	–	–	–	–	–	–	–	–	–		–		1 04	0	〃	〃
333	1	e15	43	27		–	–	43	42	–	–	–	–	–	–	–	–	–		–		4 43	0	〃	〃
334	1	e15	55	01		–	–	e55	27	–	–	–	–	–	–	–	–	–		–		2 58	0	〃	〃
335	1	e16	02	53		–	–	03	11	–	–	–	–	–	–	–	–	–		–		2 39	0	〃	〃
336	1		16	06	14	i06	14	⊕	–	?06	31	–	–	–	–	–	–	⊕		⊕		? –	3	〃	〃
337	1		16	18	44	e18	43	18	59	19	01	–	–	–	–	–	–	— 63		+ 80		10 28	0	〃	〃
338	1	e16	29	22		–	–	e29	38	–	–	–	–	–	–	–	–	–		–		1 52	0	〃	〃
339	1	e16	37	50		–	–	38	05	–	–	–	–	–	–	–	–	–		–		2 01	0	〃	〃
340	1	i17	05	37		05	38	i05	54	05	57	–	–	–	–	–	–	+ 68		— 105		6 52	0	〃	〃
341	1	e17	15	29		–	–	15	48	–	–	–	–	–	–	–	–	–		–		2 21	0	〃	〃
342	1	e17	25	28		–	–	25	44	–	–	–	–	–	–	–	–	— 9		–		2 24	0	〃	〃
343	1	i17	28	06		–	–	28	24	e28	23	–	–	–	–	–	–	+ 9		–		4 07	0	〃	〃
344	1	e17	32	41		–	–	33	02	–	–	–	–	–	–	–	–	–		–		2 18	0	〃	〃
345	1	e17	36	59		–	–	37	18	–	–	–	–	–	–	–	–	–		–		2 11	0	〃	〃
346	1	e17	49	43		–	–	e50	00	–	–	–	–	–	–	–	–	–		–		2 14	0	〃	〃
347	1		18			–	–	e07	20	–	–	–	–	–	–	–	–	–		–		0 53	0	〃	〃
348	1	e18	08	34		–	–	e08	47	–	–	–	–	–	–	–	–	–		–		1 52	0	〃	〃
349	1		18			–	–	e12	47	–	–	–	–	–	–	–	–	–		–		0 42	0	〃	〃
350	1	e18	13	36		–	–	13	50	–	–	–	–	–	–	–	–	–		–		2 01	0	〃	〃
351	1	e18	16	20		–	–	16	39	e16	40	–	–	–	–	–	–	+ 11		–		2 37	0	〃	〃
352	1	e18	19	15		–	–	19	36	–	–	–	–	–	–	–	–	— 8		–		3 28	0	〃	〃
353	1	e18	24	59		–	–	25	17	–	–	–	–	–	–	–	–	–		–		2 12	0	〃	〃
354	1	e18	39	01		–	–	?39	23	–	–	–	–	–	–	–	–	+ 8		–		4 12	0	〃	〃
355	1	e18	55	41		–	–	56	01	–	–	–	–	–	–	–	–	+ 6		–		2 33	0	〃	〃
356	1	e19	02	40		–	–	03	01	–	–	–	–	–	–	–	–	–		–		2 19	0	〃	〃
357	1	e19	13	21		–	–	13	39	–	–	–	–	–	–	–	–	–		–		2 18	0	〃	〃
358	1		19			–	–	e17	01	–	–	–	–	–	–	–	–	–		–		1 31	0	〃	〃
359	1		19			–	–	e38	32	–	–	–	–	–	–	–	–	–		–		1 05	0	〃	〃
360	1	e19	41	02		–	–	41	20	–	–	–	–	–	–	–	–	–		–		2 04	0	〃	〃
361	1	e19	45	47		–	–	46	05	–	–	–	–	–	–	–	–	–		–		2 00	0	〃	〃
362	1	e20	03	53		–	–	04	09	–	–	–	–	–	–	–	–	–		–		2 33	0	〃	〃
363	1	e20	41	27		–	–	e41	50	–	–	–	–	–	–	–	–	–		–		1 54	0	〃	〃
364	1	e21	28	09		–	–	e28	34	–	–	–	–	–	–	–	–	–		–		2 18	0	〃	〃
365	1	e22	12	24		–	–	e12	48	–	–	–	–	–	–	–	–	–		–		1 54	0	〃	〃
366	1	e22	31	02		–	–	e31	22	–	–	–	–	–	–	–	–	–		–		2 35	0		
367	1		22			–	–	e49	17	–	–	–	–	–	–	–	–	–		–		1 45	0		
368	1		23			–	–	e08	42	–	–	–	–	–	–	–	–	–		–		1 35	0	Oga Peninsula	
369	1		23			–	–	e36	43	–	–	–	–	–	–	–	–	–		–		1 22	0	〃	〃
370	1	e23	45	57		–	–	46	13	–	–	–	–	–	–	–	–	–		–		2 14	0	〃	〃
371	1	e23	55	35		–	–	e55	56	–	–	–	–	–	–	–	–	–		–		1 37	0	〃	〃
372	1	i23	59	39		–	–	i59	59	–	–	–	–	–	–	–	–	—47		–		5 22	0	〃	〃
373	2	e 0	51	43		–	–	52	04	52	04	–	–	–	–	–	–	—12		–		5 29	0	〃	〃
374	2	e 1	21	51		–	–	22	05	–	–	–	–	–	–	–	–	–		–		1 53	0	〃	〃
375	2		3			–	–	e47	09	–	–	–	–	–	–	–	–	–		–		1 18	0	〃	〃
376	2	e	3	51	23	–	–	51	42	e51	42	–	–	–	–	–	–	— 4		–		3 00	0	〃	〃
377	2		4			–	–	e04	47	–	–	–	–	–	–	–	–	–		–		1 12	0	〃	〃
378	2	e	4	07	55	–	–	08	15	–	–	–	–	–	–	–	–	— 4		–		2 26	0	〃	〃
379	2		4			–	–	e41	31	–	–	–	–	–	–	–	–	–		–		2 14	0	〃	〃
380	2		6	22	00	–	–	22	19	e22	19	–	–	–	–	–	–	–		–		3 48	0	〃	〃
381	2	e	6	34	07	–	–	e34	29	–	–	–	–	–	–	–	–	–		–		2 34	0	〃	〃
382	2		7			–	–	e04	20	–	–	–	–	–	–	–	–	–		–		1 05	0	〃	〃
383	2	e	7	46	11	–	–	46	34	e46	32	–	–	–	–	–	–	–		–		3 02	0	〃	〃
384	2		9			–	–	e06	38	–	–	–	–	–	–	–	–	–		–		1 27	0		
385	2		9			–	–	e21	26	–	–	–	–	–	–	–	–	–		–		2 01	0	Oga Peninsula	

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No.	Date 1939	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		μ		μ		m s		
386	May 2	10		– –		e 26 23		– –		– –		– –		–		–		1 28	0	Oga Peninsula
387	2	11		– –		e 03 56		– –		– –		– –		–		–		1 43	0	〃 〃
388	2	11		– –		22 31		– –		– –		– –		–		–		2 39	0	〃 〃
389	2	e 12 18 05		– –		e 18 23		– –		– –		– –		–		–		2 23	0	〃 〃
390	2	e 13 19 10		– –		e 19 32		– –		– –		– –		–		–		2 15	0	〃 〃
391	2	e 14 32 14		– –		32 35		– –		– –		– –		–		–		2 55	0	〃 〃
392	2	15		– –		e 29 14		– –		– –		– –		–		–		2 02	0	〃 〃
393	2	i 15 37 39		i 37 39		i 38 02		38 03		– –		– –		–	154	–	230	8 52	0	〃 〃
394	2	e 15 46 11		– –		46 32		– –		– –		– –		–		–		3 55	0	〃 〃
395	2	e 18 53 39		– –		54 03		– –		– –		– –		–		–		3 55	0	〃 〃
396	2	i 21 39 22		e 39 24		39 38		39 41		– –		– –		–	18	–		5 03	0	〃 〃
397	2	e 22 58 18		– –		e 58 41		– –		– –		– –		–		–		2 05	0	〃 〃
398	2	e 23 27 43		– –		i 28 03		– –		– –		– –		–		–		2 02	0	
399	3	e 0 53 48		– –		i 54 10		e 54 09		– –		– –		–		–		2 39	0	Oga Peninsula
400	3	e 4 50 53		e 50 51		51 11		51 12		– –		– –		–	6	–		3 55	0	〃 〃
401	3	e 5 17 14		– –		e 17 35		17 33		– –		– –		–	5	–		2 14	0	〃 〃
402	3	e 10 31 51		– –		e 32 12		e 32 11		– –		– –		–		–		3 04	0	〃 〃
403	3	12		– –		e 29 05		– –		– –		– –		–		–		1 17	0	〃 〃
404	3	e 14 25 14		e 25 16		e 25 35		25 35		– –		– –		–	6	–		4 06	0	〃 〃
405	3	e 14 53 06		– –		e 53 24		e 53 25		– –		– –		+	3	–		3 03	0	〃 〃
406	3	e 16 07 08		– –		07 26		– –		– –		– –		–		–		1 38	0	〃 〃
407	3	e 16 26 15		e 26 15		e 26 33		26 32		– –		– –		+	4	–		2 10	0	〃 〃
408	3	16		– –		e 28 43		– –		– –		– –		–		–		1 43	0	〃 〃
409	3	e 20 19 14		– –		19 34		e 19 34		– –		– –		–	5	–		3 49	0	〃 〃
410	3	21		– –		e 05 52		e 05 53		– –		– –		–		–		2 20	0	〃 〃
411	3	e 23 09 45		– –		10 01		10 02		– –		– –		–		–		2 46	0	〃 〃
412	3	i 23 56 00		i 56 00		56 18		56 18		– –		– –		+	86	–	128	10 47	0	〃 〃
413	4	0		– –		e 48 07		– –		– –		– –		–		–		1 23	0	〃 〃
414	4	1		✳ –		e 39 24		✳ –		– –		– –		–		–		1 54	0	〃 〃
415	4	3		✳ –		e 12 55		✳ –		– –		– –		–		–		1 33	0	
416	4	e 4 32 43		✳ –		33 19		✳ –		– –		– –		+	5	–		3 52	0	〃 〃
417	4	12		– –		14 08		– –		– –		– –		–	–	–		1 03	0	〃 〃
418	4	15 15 26		15 26		i 15 46		i 15 46		– –		– –		+	25	–	43	3 55	0	〃 〃
419	4	e 16 20 36		– –		e 20 58		– –		– –		– –		–		–		1 54	0	〃 〃
420	5	e 2 30 15		– –		30 57		e 30 55		– –		– –		–		–		4 12	0	Near Matuyama (Saitama)
421	5	e 3 59 13		– –		59 36		e 59 36		– –		– –		–		–		2 30	0	
422	5	e 6 48 28		– –		e 48 46		e 48 46		– –		– –		–		–		2 20	0	Oga Peninsula
423	5	12		– –		e 21 53		– –		– –		– –		–		–		2 03	0	
424	5	e 14 50 07		– –		i 50 25		e 50 23		– –		– –		+	5	–		3 08	0	Oga Peninsula
425	5	e 20 43 20		– –		i 43 46		e 43 47		– –		– –		–		–		2 13	0	
426	6	? 3 25 27		– –		? 27 37		? 27 38		– –		– –		–		–		11 06	0	
427	6	7		– –		e 25 51		– –		– –		– –		–		–		1 09	0	
428	6	7		– –		e 33 36		– –		– –		– –		–		–		1 37	0	
429	6	e 10 54 29		– –		56 31		e 56 28		– –		– –		–	6	–		13 05	0	
430	6	12		– –		e 07 31		– –		– –		– –		–		–		1 02	0	Oga Peninsula
431	6	e 13 59 29		– –		59 49		e 59 47		– –		– –		–		–		2 26	0	〃 〃
432	6	17		– –		e 06 28		– –		– –		– –		–		–		3 15	0	
433	6	e 18 27 38		– –		27 56		e 27 56		– –		– –		–		–		2 37	0	
434	7	e 7 12 58		– –		e 14 39		e 14 39		– –		– –		–		–		9 11	0	
435	7	14 17 11		– –		17 38		– –		– –		– –		–		–		3 36	0	
436	8	e 3 46 15		– –		46 31		– –		– –		– –		–		–		4 41	0	
437	8	8 05 37		05 37		i 06 17		06 17		– –		– –		–	66	–	70	11 01	0	Off Cape Inubô
438	8	e 20 34 11		– –		34 31		e 34 31		– –		– –		–	6	–		4 22	0	Off the Mouth of R.
439	9	19		– –		? 40 10		– –		– –		– –		–		–		2 07	0	Mabuti
440	10	4		– –		e 12 21		– –		– –		– –		–		–		1 02	0	

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No.	Date 1939	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	h m s	m s	m s	m s	m s	m s	m s	m s	m s	m s	m s	μ	μ	μ	μ	m s		
441	May 10	*e* 5 29 29	–	–	–	*e* 30 39	–	–	–	–	–	–	–		–		–	6 58	0	
442	10	? 7 48 55	–	–	–	? 55 35	–	–	–	–	–	–	–		–		–	21 35	0	
443	10	*e* 16 29 15	–	–	–	29 56	*e* 29 56	–	–	–	–	–	–	—	7		–	5 13	0	Off the mouth of R. Tokati
444	11	4 52 24	–	–	–	52 42	–	–	–	–	–	–	–		–		–	1 21	0	
445	12	8	–	–	–	*e* 44 46	–	–	–	–	–	–	–		–		–	2 34	0	
446	12	*i* 14 05 54	*i* 05	55	*i* 06	39	*i* 06	38	–	–	–	–	+	62	—	83	7 15	0	E off Hiroo (Hokkaido)	
447	13	*e* 19 55 45	–	–		56	59	*e* 56	59	–	–	–	–	—	5		–	6 52	0	
448	13	*e* 20 27 42	–	–	*i* 28	00	*e* 28	03	–	–	–	–	—	5		–	3 34	0		
449	13	21	–	–	*e* 44	14	–	–	–	–	–	–		–		–	3 12	0		
450	14	*e* 17 54 09	–	–	*e* 54	40	*e* 54	40	–	–	–	–		–		–	4 53	0		
451	14	18	–	–	*e* 12	11	*e* 12	08	–	–	–	–	+	2		–	2 38	0		
452	15	18 26 02	–	–	26	21	–	–	–	–	–	–		–		–	1 34	0		
453	16	*e* 7 25 17	*e* 25	15	29	26	29	25	–	–	–	–		–		–	18 20	0		
454	16	14	–	–	? 25	23	–	–	–	–	–	–		–		–	2 51	0		
455	16	*e* 15 19 00	–	–	19	19	–	–	–	–	–	–		–		–	1 43	0		
456	16	22 56 36	56	37	57	14	57	13	–	–	–	–	+	5		–	4 33	0	Near Ueta (Nagano)	
457	17	0	–	–	? 25	30	–	–	–	–	–	–		–		–	3 46	0		
458	17	3	–	–	*e* 44	02	–	–	–	–	–	–		–		–	1 32	0		
459	17	*e* 5 20 28	*e* 20	28	20	48	20	49	–	–	–	–	—	10	—	23	4 19	0	Oga Peninsula	
460	17	*e* 12 30 46	–	–	31	03	–	–	–	–	–	–		–		–	2 35	0		
461	17	15	–	–	? 18	30	–	–	–	–	–	–		–		–	4 23	0		
462	17	*i* 18 34 21	*i* 34	23	*i* 37	36	*i* 37	39	–	–	–	–	—	114	+	138	49 06	0	Distant	
463	17	21	–	–	*e* 16	02	–	–	–	–	–	–		–		–	4 00	0		
464	18	*e* 9 32 12	–	–	*i* 32	51	*e* 32	50	–	–	–	–		–		–	3 15	0		
465	18	21 04 30	04	27	*i* 04	48	04	47	–	–	–	–	+	39	—	50	7 49	0	E off Hukusima Pref.	
466	18	*e* 23 39 23	–	–	*e* 39	52	*e* 39	55	–	–	–	–		–		–	3 20	0		
467	19	*e* 11 55 18	–	–	*e* 55	35	*e* 55	36	–	–	–	–		–		–	2 47	0		
468	19	*e* 12 11 30	–	–	12	20	*e* 12	19	–	–	–	–		–		–	4 09	0	SE off Cape Nozima	
469	20	*e* 21 39 45	–	–	40	12	*e* 40	13	–	–	–	–	+	5		–	3 42	0	E off Hukusima pref.	
470	21	*e* 14 01 22	–	–	02	04	*e* 02	00	–	–	–	–	—	25		–	9 41	0		
471	21	*e* 15 12 44	–	–	*e* 13	06	*e* 13	03	–	–	–	–	—	3		–	3 23	0		
472	21	20	–	–	? 32	20	–	–	–	–	–	–	+	6		–	4 07	0		
473	24	*e* 13 15 15	–	–	15	37	*e* 15	37	–	–	–	–	—	5		–	2 55	0		
474	25	21	–	–	? 37	21	–	–	–	–	–	–		–		–	1 53	0		
475	25	? 22 00 39	–	–	01	17	*e* 01	19	–	–	–	–		–		–	2 51	0		
476	26	*e* 6 54 30	–	–	54	41	*e* 54	39	–	–	–	–		–		–	1 56	0		
477	26	? 9 49 35	? 49	39	? 53	37	? 53	44	–	–	–	–		–		–	15 50	0	Distant	
478	26	11	–	–	*e* 51	44	*e* 51	42	–	–	–	–		–		–	2 17	0		
479	26	*e* 12 20 16	–	–	21	36	21	38	–	–	–	–	+	10	+	13	5 51	0	Sôya Strait	
480	26	17	–	–	? 58	26	–	–	–	–	–	–		–		–	4 13	0		
481	26	18 02 58	*e* 03	00	03	38	03	37	–	–	–	–	—	25	—	43	9 24	0	Near Urakawa	
482	26	*e* 20 57 05	*e* 57	07	58	03	58	05	–	–	–	–	—	10		–	5 17	0		
483	27	*e* 3 53 34	*e* 53	34	59	48	59	46	–	–	–	–		–		–	23 51	0	Distant	
484	27	14	–	–	*e* 21	29	–	–	–	–	–	–		–		–	1 34	0		
485	27	*e* 23 00 29	–	–	01	03	*e* 01	04	–	–	–	–		–		–	3 50	0		
486	27	*e* 23 05 02	–	–	05	38	*e* 05	39	–	–	–	–		–		–	4 56	0		
487	29	0	–	–	25	46	*e* 25	44	–	–	–	–		–		–	4 37	0		
488	30	*e* 17 15 15	*e* 15	17	? 18	07	? 18	03	–	–	–	–		–		–	10 14	0		
489	31	*e* 10 01 50	*e* 01	50	02	24	*e* 02	23	–	–	–	–	+	9	—	18	5 06	0	Near Simotuma	
490	31	11 57 01	–	–	57	12	*e* 57	12	–	–	–	–	—	4		–	2 06	0		
491	31	18 07 16	*e* 07	13	10	58	*e* 11	01	–	–	–	–		–		–	9 57	0		
492	June 1	*e* 0 25 28	–	–	*e* 26	02	? 26	01	–	–	–	–		–		–	3 08	0		
493	1	4	–	–	*e* 48	37	48	38	–	–	–	–		–		–	1 34	0		
494	1	5	–	–	*e* 42	13	*e* 42	14	–	–	–	–		–		–	2 49	0		
495	1	*e* 11 42 06	*e* 42	05	42	34	42	33	–	–	–	–	—	45	+	48	5 57	0	NE off Hatinohe	

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		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	μ		μ		m	s		
496	June 1	e	17	19	46	–	–	20	13	–	–	–	–	–	–	–		–		4	05	0	
497	2	e	3	40	24	e 40	24	e 45	58	e 46	01	–	–	–	–	–		–		26	48	0	Distant
498	3		9			–	–	e 18	13	–	–	–	–	–	–	–		–		3	20	0	
499	3		15			–	–	e 22	03	–	–	–	–	–	–	–		–		2	06	0	
500	4		22			–	–	e 44	30	–	–	–	–	–	–	–		–		2	40	0	
501	5	e	7	51	30	–	–	e 51	48	e 51	49	–	–	–	–	–		–		2	56	0	Oga Peninsula
502	5	e	13	49	32	–	–	e 49	47	–	–	–	–	–	–	–		–		2	23	0	
503	5	e	19	49	02	e 49	02	e 49	19	e 49	19	–	–	–	–	–	8	–		3	28	0	Oga Peninsula
504	5	e	20	30	12	–	–	30	35	e 30	36	–	–	–	–	–	6	–		3	12	0	
505	6	e	1	42	16	e 42	16	42	34	e 42	37	–	–	–	–	–	8	+	18	4	16	0	Oga Peninsula
506	6	e	16	58	49	–	–	59	18	e 59	19	–	–	–	–	–	5	–		3	05	0	
507	6		19			–	–	e 38	11	–	–	–	–	–	–	–	–	–		1	03	0	
508	6	e	20	53	45	–	–	i 54	35	e 54	36	–	–	–	–	–	10	–		7	28	0	SE off Cape Inubô
509	7	e	5	52	55	–	–	53	20	e 53	21	–	–	–	–	–	–	–		3	23	0	
510	7		7			–	–	e 15	51	–	–	–	–	–	–	–	–	–		1	31	0	
511	8		0			–	–	e 36	19	–	–	–	–	–	–	–	–	–		4	50	0	
512	8		15			–	–	e 32	15	e 32	17	–	–	–	–	–	–	–		4	41	0	
513	8		20	57	51	e 57	53	? 66	46	? 66	47	–	–	–	–	–	–	–		27	15	0	Distant
514	8		21			–	–	–	–	–	–	–	–	–	–	–	–	–		3	21	0	
515	9	e	3	16	49	–	–	e 17	23	e 17	26	–	–	–	–	–	4	–		5	41	0	
516	10		11			–	–	e 11	09	–	–	–	–	–	–	–	–	–		2	20	0	
517	10	e	14	59	22	–	–	e 59	35	–	–	–	–	–	–	–	–	–		2	18	0	
518	11	e	6	21	30	e 21	31	21	51	21	52	–	–	–	–	–	14	–		4	55	0	NE off Cape Sioya
519	11	e	11	52	03	–	–	52	15	–	–	–	–	–	–	–	–	–		2	36	0	
520	11		18			–	–	e 01	56	–	–	–	–	–	–	–	–	–		1	52	0	
521	11	e	19	47	01	–	–	e 47	18	–	–	–	–	–	–	–	3	–		3	19	0	
522	12	e	23	39	49	–	–	e 40	10	e 40	07	–	–	–	–		–	–		3	29	0	
523	13		0			–	–	e 38	08	–	–	–	–	–	–	+	3	–		2	58	0	
524	13	e	1	31	31	–	–	31	59	–	–	–	–	–	–	+	3	–		4	07	0	
525	13	e	20	47	36	e 47	36	i 53	38	i 53	37	–	–	–	–	+	5	–		17	13	0	Halmahera (Distant)
526	14	e	11	10	58	–	–	11	18	–	–	–	–	–	–		–	–		2	07	0	
527	15	e	14	18	16	–	–	18	34	18	35	–	–	–	–		–	–		2	00	0	
528	15	e	17	29	37	–	–	29	49	–	–	–	–	–	–		–	–		2	55	0	
529	15	e	22	44	15	–	–	44	36	–	–	–	–	–	–		–	–		2	28	0	
530	15	e	22	55	38	e 55	40	i 55	54	55	55	–	–	–	–	+	3	–		3	00	0	Oga Peninsula
531	16		5			–	–	? 18	49	? 18	44	–	–	–	–		–	–		22	44	0	
532	17	e	8	27	08	–	–	27	29	–	–	–	–	–	–		–	–		3	13	0	
533	17	e	8	49	29	–	–	49	45	–	–	–	–	–	–		–	–		3	11	0	
534	17		11			–	–	e 13	05	–	–	–	–	–	–		–	–		2	32	0	
535	17	e	16	38	18	–	–	38	50	–	–	–	–	–	–		–	–		3	10	0	
536	17	i	18	40	27	i 40	28	i 40	46	i 40	47	–	–	–	–	+	97	+	145	8	00	1	ENE off Kinkwasan
537	17	e	19	07	51	–	–	08	29	e 08	29	–	–	–	–	–	6	–		7	16	0	Kasima-nada
538	18	i	0	41	07	41	07	i 41	21	41	21	–	–	–	–		*	+	85	5	01	2	Off Cape Hirota (Iwate)
539	18		5			–	–	–	–	–	–	–	–	–	–		–	–		5	17	0	
540	18	?	12	28	40	–	–	? 31	26	–	–	–	–	–	–		–	–		6	55	0	
541	19		12			–	–	e 39	17	–	–	–	–	–	–		–	–		1	22	0	
542	20		11	31	40	e 31	39	i 32	01	i 32	02	–	–	–	–	+	8	–	13	4	32	0	Oga Peninsula
543	21		0			–	–	e 45	19	–	–	–	–	–	–		–	–		1	58	0	
544	21		3			–	–	e 41	00	–	–	–	–	–	–		–	–		1	57	0	
545	21		4			–	–	e 15	07	–	–	–	–	–	–		–	–		1	30	0	
546	21		18			–	–	e 44	00	–	–	–	–	–	–		–	–		2	32	0	
547	21	e	21	09	36	–	–	e 10	03	e 10	07	–	–	–	–		–	–		3	29	0	
548	22		8			–	–	e 41	27	–	–	–	–	–	–		–	–		1	18	0	
549	22		17	19	27	*	–	19	58	*	–	–	–	–	–	–	13	*		5	50	0	Near Mito
550	22	e	18	10	29	*	–	10	46	*	–	–	–	–	–		–	–		1	56	0	

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		h m s		m s		m s		m s		m s		m s		μ		μ		m s		
551	June 22	e 19 44 09		✳	–	44 31		✳	–	–	–	–	–		–		–	2 24	0	
552	24	e 17 25 09		–	–	25 34		e 25 35		–	–	–	–		–		–	3 08	0	
553	25	e 20 15 12		–	–	e 15 57		e 15 55		–	–	–	–	–	6	+	15	6 11	0	Off Cape Inubô
554	26	e 1 05 22		e 05	21	05 56		05 56		–	–	–	–	+	10	–	23	5 32	0	SW off Cape Erimo
555	26	e 13 23 16		e 23	17	24 00		23 58		–	–	–	–	+	74	+	80	9 45	0	NE off Cape Iunbô
556	26	e 22 43 50		–	–	44 28		44 25		–	–	–	–		–		–	3 48	0	
557	27	14		–	–	13 56		– –		–	–	–	–		–		–	2 34	0	
558	27	e 23 11 10		e 11	06	e 16 33		e 16 25		?21	31	?20	58		–		–	24 55	0	Distant
559	28	e 1 33 38		–	–	e 34 14		– –		–	–	–	–		–		–	4 00	0	
560	28	e 4 37 16		e 37	14	37 48		37 47		–	–	–	–	–	25	+	35	9 48	0	Kasima-nada
561	28	e 17 21 20		–	–	e 21 58		– –		–	–	–	–		–		–	3 55	0	
562	28	19		–	–	e 15 07		– –		–	–	–	–		–		–	2 13	0	
563	29	20 60 00		e 59	59	60 27		60 26		–	–	–	–	–	17	–	35	6 04	0	N part of Kasima-nada
564	30	e 2 47 08		–	–	47 45		e 47 44		–	–	–	–	–	8		–	4 13	0	Near Simotuma
565	July 2	8 30 01		e 29	59	30 17		30 15		–	–	–	–	–	6		–	3 02	0	Oga Peninsula
566	3	e 5 38 38		–	–	39 01		– –		–	–	–	–		–		–	2 29	0	
567	3	e 7 39 18		–	–	40 50		e 40 52		–	–	–	–	–	9		–	7 07	0	ESE off Cape Nasyappu
568	3	11 52 16		–	–	52 32		52 32		–	–	–	–	–	5		–	3 07	0	
569	4	e 18 45 34		e 45	34	– –		– –		–	–	–	–	–	5		–	5 49	0	
570	5	e 4 25 47		–	–	26 13		– –		–	–	–	–		–		–	2 47	0	
571	5	e 22 51 21		e 51	24	e 59 48		59 49		–	–	–	–	+	10		–	31 10	0	Fiji Is (deep)
572	6	7		–	–	? 49 11		? 49 11		–	–	–	–		–		–	5 30	0	
573	8	e 17 15 51		–	–	i 16 14		16 15		–	–	–	–	+	4		–	3 07	0	
574	8	e 19 59 22		–	–	59 52		e 59 52		–	–	–	–		–		–	4 00	0	
575	10	e 5 22 41		–	–	e 23 15		e 23 13		–	–	–	–		–		–	3 56	0	
576	12	20 10 02		e 10	02	i 11 11		i 11 12		–	–	–	–	+	46	–	53	12 24	0	ESE off Cape Nasyappu
577	12	21 01 02		e 01	02	i 01 29		i 01 29		–	–	–	–	–	23	–	20	5 39	0	E off Hatinohe
578	12	e 23 06 09		e 06	07	e 12 19		e 12 14		–	–	–	–		–		–	34 21	0	Distant
579	13	e 5 50 49		–	–	e 51 39		– –		–	–	–	–		–		–	3 41	0	
580	13	e 8 54 25		–	–	54 48		e 54 49		–	–	–	–		–		–	4 10	0	
581	13	e 17 08 12		e 08	14	e 10 20		e 10 24		–	–	–	–		–		–	33 01	0	NE off Titizima
582	14	e 8 36 57		e 36	54	e 41 16		e 41 16		–	–	–	–		–		–	10 43	0	Distant
583	14	e 12 46 41		e 46	44	47 17		e 47 17		–	–	–	–	+	10		–	5 46	0	Kasima-nada
584	15	e 22 48 55		–	–	e 49 21		– –		–	–	–	–		–		–	3 19	0	
585	18	e 7 40 21		–	–	40 57		– –		–	–	–	–		–		–	4 32	0	
586	18	9 40 59		e 40	58	41 42		41 43		–	–	–	–	–	24	–	43	7 26	0	SW part of Tokati
587	19	e 10 06 50		–	–	e 07 18		e 07 18		–	–	–	–		–		–	2 53	0	
588	19	e 20 19 42		e 19	45	i 20 05		i 20 06		–	–	–	–	–	18		–	5 31	0	E off Cape Sioya
589	20	e 2 33 21		e 33	20	e 41 49		e 41 48		–	–	–	–		–		–	17 03	0	Fiji Is (Distant)
590	20	16		–	–	e 11 37		e 11 36		–	–	–	–		–		–	1 55	0	
591	21	e 2 56 50		–	–	e 57 12		e 57 13		–	–	–	–		–		–	3 35	0	
592	21	e 19 45 51		–	–	46 20		46 21		–	–	–	–	+	4		–	2 50	0	
593	21	e 21 34 27		–	–	35 06		e 35 05		–	–	–	–	+	5		–	5 15	0	ENE off Cape Inubô
594	23	e 6 42 38		–	–	43 03		– –		–	–	–	–		–		–	2 18	0	
595	26	10		–	–	11 03		– –		–	–	±	–		–		–	0 43	0	
596	26	e 21 11 05		–	–	11 31		e 11 31		–	–	–	–	–	4		–	3 41	0	
597	26	e 22 56 39		–	–	57 06		– –		–	–	–	–		–		–	3 16	0	
598	27	e 5 11 33		–	–	12 42		12 41		–	–	–	–	–	10		–	9 26	0	ESE off Hatizyo I.
599	27	23 28 38		28	39	29 40		29 42		–	–	–	–	+	49	–	70	8 17	0	ESE off Cape Nasyappu
600	28	i 1 06 58		06	58	i 07 19		07 21		–	–	–	–	+	120	+	215	9 51	1	NE off Cape Sioya
601	28	i 5 21 51		i 21	54	i 22 11		22 13		–	–	–	–	+	138	–	158	10 50	1	" "
602	28	e 21 14 21		–	–	14 48		e 14 47		–	–	–	–		–		–	3 19	0	
603	28	e 21 52 37		–	–	52 53		– –		–	–	–	–		–		–	2 49	0	
604	29	e 0 13 47		✳	–	14 27		✳ –		–	–	–	–		–		–	4 08	0	
605	29	e 5 10 38		e 10	36	i 10 54		i 10 52		–	–	–	–	±	76	+	80	5 57	1	Near Kuzi (Iwate)

EARTHQUAKES, 1939.

International Seismological Centre

No.	Date 1939	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			μ		μ		m	s		
606	July 30	e	12	56	23	e	56	22		i	56	57		56	57			—	15	—	25	5	15	0	Near Mt. Tukuba
607	30	e	23	35	03		–	–			35	33		–	–			–		–		4	11	0	
608	31		0	41	23		–	–			41	44		e	41	44		–		–		2	51	0	
609	31	e	9	38	46		–	–			39	08		–	–			–		–		1	43	0	
610	31		11				–	–		e	11	43		–	–			–		–		1	19	0	
611	31	e	11	35	33		–	–			35	53		–	–			–		–		1	23	0	
612	31	e	12	02	23		–	–			02	40		–	–			–		–		1	24	0	
613	31		15				–	–			52	29		–	–			–		–		1	15	0	
614	31	e	19	10	59		–	–			11	20		–	–			–		–		2	26	0	
615	Aug. 1		4				–	–		e	10	45		–	–			–		–		2	11	0	
616	1	e	15	59	36	e	59	35		e	62	15		e	62	19		–		–		7	15	0	
617	2		14	18	38	e	18	35			18	57		18	57			+	10	—	13	4	56	0	E off Hukusima pref
618	3		6	57	11	e	57	13			58	10		58	11			+	3		–	8	18	0	S off Izu-Osima
619	4	e	3	16	22		–	–			17	03		17	05			–		–		6	07	0	Near Ueda (Nagano)
620	4	e	7	50	46		–	–			51	08		51	07			–		–		2	36	0	Off Miyako
621	5		1	32	20	e	32	22			32	36		32	37			—	9		–	2	48	0	〃 〃
622	7	e	2	28	37		–	–			29	02		–	–			–		–		3	01	0	
623	7	e	10	51	21		–	–			51	37		51	38			–		–		2	15	0	
624	7		12				–	–		e	55	31		–	–			–		–		1	23	0	
625	7		18				–	–		e	51	08		–	–			–		–		1	44	0	
626	7		20	44	35		44	34			45	01		45	01			—	6		–	4	05	0	E off Kinkwasan
627	8		0	45	58		–	–			46	23		–	–			+	5		–	2	22	0	
628	8		0	48	27	e	48	26			48	59		48	59			—	26	—	40	6	28	0	Middle part of Kasima-
629	8		7								58	01		57	59			+	10		–	3	50	0	nada
630	10		5	18	10		–	–		e	18	24		e	18	22		–		–		1	51	0	
631	12	i	2	17	22	i	17	19		i	25	21		e	25	20		+	15	+	25	32	13	0	Fiji Is.
632	12	e	6	45	10		–	–		e	45	31		–	–			–		–		2	42	0	
633	12		9	52	12	e	52	10		i	53	48		53	49			+	41	—	55	36	16	0	SE off Etoroff I.
634	12	e	15	34	58		–	–		e	35	17		–	–			–		–		2	22	0	
635	14	e	3	09	10		–	–		e	09	36		–	–			–		–		3	14	0	
636	14	e	6	49	35		–	–		e	49	55		–	–			–		–		2	03	0	
637	14	e	18	30	24		–	–		e	31	04		–	–			–		–		4	18	0	
638	16	e	15	13	09	e	13	09			13	42		13	41			–		–		4	31	0	
639	16	i	16	57	16	e	57	15		i	57	39		57	38			—	41	+	70	6	53	0	ENE off Cape Sioya
640	16	e	18	44	48		–	–			45	02		e	45	02		—	5		–	2	49	0	
641	17		10	38	37		38	41		i	38	57		38	59			—	30	—	48	6	18	0	E off Kinkwasan
642	17	i	15	46	02	i	46	01		i	46	21		46	21			—	180	—	425	11	23	1	E off Hukusima Pref.
643	17		18	04	47		–	–			05	10		e	05	11		–		–		2	45	0	
644	17	e	20	59	49		–	–			60	09		e	60	09		—	6		–	5	10	0	
645	18	e	12	57	24	e	57	25			57	51		57	52			+	12	—	25	3	41	0	E off Cape Siriya
646	18		22	26	28	e	26	28		?	34	55		?	34	52		–		–		42	38	0	Distant
647	19		4				–	–		e	34	07		–	–			–		–		1	58	0	
648	19		5	58	10		–	–			58	27		–	–			–		–		3	39	0	
649	19	e	22	29	43		–	–			29	58		–	–			–		–		2	26	0	
650	20	e	11	05	00		–	–			05	19		–	–			–		–		2	20	0	
651	21	e	15	24	54	e	24	54		e	29	56		e	29	43		–		–		11	02	0	
652	21	e	17	59	04		–	–			59	33		59	34			–	10	—	15	6	12	0	ESE off Cape Sioya
653	21	e	20	53	05		–	–			53	42		–	–			–	5		–	4	42	0	
654	22	i	0	06	48	i	06	49			07	06		07	06			–	⊕	—1608		20	18	1	E off Hukusima Pref.
655	23	e	0	13	05		–	–			13	31		13	33			–	2		–	4	13	0	
656	23	?	21	27	54		–	–		?	28	21		–	–			–		–		4	17	0	
657	25		3	56	28		56	27		?	60	04		?	60	02		–		–		16	53	0	Distant
658	26		3				–	–		e	30	06		–	–			–		–		2	19	0	
659	26	e	7	10	41		–	–			11	14		e	11	13		–		–		2	53	0	
660	27	e	8	01	31		–	–		i	01	57		01	57			–		–		3	25	0	

EARTHQUAKES, 1939.

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No.	Date 1939	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	m	s	μ		μ		m	s		
661	Aug. 27	*i* 20	15	43		15	42	*i* 16	04	16	04	–	–	–	–	–	–	— 56		— 125		8	13	1	E off Hukusima Pref.
662	27	*e* 20	43	47		*e* 43	48	*i* 44	17	44	17	–	–	–	–	–	–	— 20		+ 25		5	22	0	E off Cape Siriya
663	29	*e* 3	30	58		–	–	31	22	*e* 31	23	–	–	–	–	–	–	–		–		2	18	0	
664	29	*e* 6	08	40		–	–	09	04	*e* 09	05	–	–	–	–	–	–	–		–		2	09	0	
665	29	*e* 9	10	10		–	–	10	42	10	43	–	–	–	–	–	–	+ 12		–		5	38	0	Middle Part of Kasima-nada.
666	29	*e* 9	38	34		–	–	39	01	*e* 39	01	–	–	–	–	–	–	–		–		1	48	0	
667	29	? 10	51	35		–	–	*e* 52	01	–	–	–	–	–	–	–	–	–		–		2	11	0	
668	29	12				–	–	–	–	–	–	–	–	–	–	–	–	–		–					
669	29	22				–	–	*e* 28	57	*e* 28	56	–	–	–	–	–	–	–		–		1	30	0	
670	31	*e* 19	39	38		–	–	39	55	–	–	–	–	–	–	–	–	–		–		2	02	0	
671	31	21				–	–	44	39	–	–	–	–	–	–	–	–	–		–		1	23	0	
672	Sept. 1	22				–	–	*e* 10	25	–	–	–	–	–	–	–	–	–		–		4	54	0	
673	2	*e* 19	03	12		–	–	03	44	*e* 03	42	–	–	–	–	–	–	–		–		4	14	0	
674	3	7	49	36		*e* 49	37	? 53	54	53	58	–	–	–	–	–	–	–		–		11	43	0	
675	4	*e* 5	23	46		–	–	24	07	*e* 24	08	–	–	–	–	–	–	–		–		4	05	0	
676	6	22	20	43		*e* 20	42	22	45	22	45	–	–	–	–	–	–	— 4		–		6	30	0	
677	8	12	10	21		10	22	14	57	14	58	21	02	21	02	+ 233		—1180				77	36	0	Kamchatka
678	9	*i* 8	11	59		12	01	*i* 12	17	12	18	–	–	–	–	— 95		+ 203				12	03	1	ENE off Miyako
679	10	*e* 9	26	17		–	–	26	52	*e* 26	49	–	–	–	–	— 5		–				4	51	0	ENE off Cape Siriya
680	12	*e* 3	26	34		–	–	26	56	–	–	–	–	–	–	–	–	–		–		2	08	0	
681	12	5	05	59		06	00	*i* 06	35	*i* 06	37	–	–	–	–	+ 28		— 50				6	41	0	Near Mizukaido
682	13	2				–	–	*e* 36	58	–	–	–	–	–	–	–	–	–		–		1	50	0	
683	13	*e* 16	55	10		–	–	55	27	*e* 55	28	–	–	–	–	–	–	–		–		1	43	0	
684	13	*e* 22	35	11		–	–	35	28	*e* 35	29	–	–	–	–	–	–	–		–		2	29	0	
685	14	*e* 3	58	43		–	–	59	03	*e* 59	01	–	–	–	–	–	–	–		–		2	54	0	
686	14	*e* 21	08	14		–	–	08	31	*e* 08	28	–	–	–	–	–	–	–		–		3	08	0	
687	16	1				–	–	19	09	19	10	–	–	–	–	–	–	–		–		2	38	0	
688	16	6	49	05		*e* 49	06	*i* 49	26	*i* 49	27	–	–	–	–	— 88		— 118				6	32	0	E off Hukusima Pref.
689	16	7				–	–	? 23	34	–	–	–	–	–	–	–	–	–		–		2	19	0	
690	16	*e* 18	16	32		*e* 16	32	16	59	16	59	–	–	–	–	+ 17		–				6	02	0	SSE off Kinkwasan
691	17	*e* 7	49	32		–	–	50	03	–	–	–	–	–	–	–	–	–		–		3	12	0	
692	17	*e* 9	34	30		–	–	34	55	*e* 34	58	–	–	–	–	+ 5		–				3	56	0	NE off Cape Sioya
693	17	*e* 15	38	19		–	–	*i* 38	29	*e* 38	28	–	–	–	–	— 10		–				3	13	0	Near Hizume (Iwate)
694	19	*i* 5	53	15		*e* 53	14	*i* 53	33	*i* 53	31	–	–	–	–	— 30		— 50				4	49	0	Off Kuzi (Iwate)
695	21	7	37	49		37	50	38	05	38	03	–	–	–	–	+ 262		+ 403				8	20	0	Off Kinkwasan
696	21	*e* 7	59	49		–	–	60	09	*e* 60	10	–	–	–	–	–	–	–		–		4	05	0	
697	21	*e* 13	12	13		*e* 12	14	12	37	12	39	–	–	–	–	+ 11		— 20				4	50	0	Off Kinkwasan
698	21	*e* 18	30	38		*e* 30	40	31	13	31	15	–	–	–	–	+ 11		+ 25				4	35	0	E off Hukusima Pref
699	22	*i* 3	20	42		*i* 20	42	21	42	? 21	43	–	–	–	–	— 5		–				6	23	0	W off Noto Peninsula
700	23	17				–	–	00	42	–	–	–	–	–	–	–	–	–		–		2	55	0	
701	24	*e* 0	17	00		–	–	*i* 17	16	*e* 17	16	–	–	–	–	— 7		–				3	57	0	
702	24	*e* 6	02	23		–	–	02	48	*e* 02	47	–	–	–	–	— 5		–				2	54	0	
703	24	*e* 14	31	44		–	–	32	13	32	14	–	–	–	–	–	–	–		–		5	13	0	
704	25	*e* 8	47	30		–	–	*e* 48	06	–	–	–	–	–	–	–	–	–		–		2	46	0	
705	25	*e* 10	54	38		–	–	54	50	*e* 54	48	–	–	–	–	–	–	–		–		1	39	0	
706	27	*e* 16	44	55		–	–	*e* 45	47	*e* 45	48	–	–	–	–	–	–	–		–		5	08	0	
707	28	16				–	–	*e* 57	38	–	–	–	–	–	–	–	–	–		–		2	39	0	
708	30	13				–	–	*e* 38	55	–	–	–	–	–	–	–	–	–		–		2	02	0	
709	30	*e* 14	38	47		–	–	39	17	–	–	–	–	–	–	–	–	–		–		5	00	0	
710	Oct. 1	*e* 16	39	10		*e* 39	11	39	35	*e* 39	36	–	–	–	–	–	–	–		–		3	39	0	
711	1	21	01	01		*e* 01	01	01	17	*e* 01	17	–	–	–	–	+ 8		— 15				3	56	0	Off Kinkwasan
712	1	21	51	19		*e* 51	18	51	57	51	57	–	–	–	–	— 10		–				4	39	0	Near Yuki (Ibaragi)
713	2	*e* 1	42	24		–	–	42	50	*e* 42	51	–	–	–	–	–	–	–		–		3	13	0	
714	2	*e* 4	47	47		–	–	48	19	*e* 48	17	–	–	–	–	— 5		–				4	08	0	
715	3	*e* 7	01	13		–	–	*e* 01	30	–	–	–	–	–	–	–	–	–		–		2	13	0	

EARTHQUAKES, 1939.

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No.	Date 1939	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			μ				μ			m		s			
716	Oct. 3	17				–		–		e	04	31		–		–		–		–		–		–		3	09	0			
717	4	e	0	25	46	–		–			26	12		–		–		–		–		–		–		3	34	0			
718	5	e	21	18	31	–		–			19	12		e	19	15		–		–		–		–		4	04	0			
719	6	15				–		–		?	04	37		?	04	39		–		–		–		–		3	29	0			
720	7	e	9	24	54	e	24	53			25	17			25	17		–		–		–		+	4	–		3	14	0			
721	7	e	20	51	33	e	51	33		?	58	33		?	58	33		–		–		–		–		–		13	14	0	Distant		
722	7		21	05	09		05	10		i	05	35		i	05	35		–		–		–		–		–		5	59	1	E off Cape Sioya		
723	8	e	1	01	40	e	01	40			02	09			02	09		–		–		–		+	16	—	32	5	51	0	〃	〃	
724	8	e	20	53	13	–		–			53	28		e	53	29		–		–		–		–		–		1	49	0			
725	9	8				–		–		?	36	22		?	36	21		–		–		–		–		–		5	41	0			
726	10	13	55	23		55		22		i	55	40		55		40		–		–		–		—	84	+	148	10	27	1	E off Hukusima Pref.		
727	10	14	15	28		15		30		i	15	45		15		46		–		–		–		+	16	+	25	6	27	0	〃	〃	
728	10	i	18	32	22	32		22		⊕		–		⊕		–		–		–		–		⊕		⊕		–	–	3	Off Kinkwasan		
729	10	i	18	51	16	i	51	16			51	38			51	39		–		–		–		⊕		—	878	44	42	2	〃	〃	
730	10	21	00	06		–		–			00	17		–		–		–		–		–		–		–		1	31	0			
731	10	23				–		–		?	09	59		–		–		–		–		–		–		–		2	15	0			
732	11	i	10	21	00	e	20	59		i	21	31		21		30		–		–		–		+	20	—	25	5	43	0	E off Kinkwasan		
733	12	e	0	29	30	–		–			29	57		–		–		–		–		–		–		–		1	47	0			
734	12	e	5	05	05	e	05	06			05	37		05		37		–		–		–		–		–		4	23	0			
735	12	e	17	45	10	–		–			45	29		45		29		–		–		–		+	5	–		2	23	0			
736	13	e	10	36	02	–		–			36	22		e	36	22		–		–		–		–		–		3	54	0			
737	14	e	3	10	24	–		–			10	49		–		–		–		–		–		–		–		5	27	0			
738	14	e	10	56	43	–		–			57	05		–		–		–		–		–		–		–		3	07	0			
739	14	12	29	44		29		45			30	04		e	30	03		–		–		–		–		–		3	22	0			
740	17	e	3	10	20	–		–			10	46		–		–		–		–		–		–		–		4	25	0			
741	17	i	6	32	03	e	32	03			39	58		39		57		–		–		–		+	20	–		28	36	0	Distant		
742	17	7				–		–		?	01	52		?	01	53		–		–		–		–		–		6	47	0			
743	18	?	5	04	23	–		–		e	04	47		–		–		–		–		–		–		–		3	07	0			
744	18	e	19	25	40	–		–			25	51		–		–		–		–		–		–		–		1	38	0			
745	21	e	10	25	39	–		–			25	58		e	25	59		–		–		–		–		–		2	35	0			
746	21	23	43	01		e	42	59			43	19		43		18		–		–		–		—	7	–		–	–	0	E off Kinkwasan		
747	21	e	23	44	32	–		–			44	46		44		46		–		–		–		+	8	–		4	48	0	〃	〃	
748	22	11				–		–			13	36		–		–		–		–		–		–		–		1	14	0			
749	22	14	40	41		40		42			41	25		41		23		–		–		–		+	134	+	175	13	00	1	SSW off Kusiro		
750	22	e	22	53	49	–		–			54	10		e	54	12		–		–		–		–		–		3	38	0			
751	24	i	14	45	12	45		13			46	33		46		31		–		–		–		–		–		8	03	0	N Part of Japan sea		
752	24	17				–		–			04	13		–		–		–		–		–		–		–		0	47	0			
753	24	e	18	09	28	–		–			10	09		e	10	09		–		–		–		–		–		3	58	0			
754	26	e	1	24	09	–		–		?	24	23		24		21		–		–		–		+	10	–		4	36	0			
755	26	e	3	52	35	–		–			53	14		53		16		–		–		–		+	10	–		4	02	0	Off the Mouth of R. Niikappu		
756	28	e	17	24	30	e	24	27			24	51		e	24	48		–		–		–		+	11	–		5	26	0	E off Hukusima Pref.		
757	29	i	7	09	12	e	09	12		i	09	26		09		27		–		–		–		+	5	—	18	3	14	0	Oga Peninsula		
758	31	e	17	22	25	–		–			22	37		–		–		–		–		–		–		–		1	28	0			
759	Nov. 3	e	8	17	36	–		–			18	28		18		30		–		–		–		—	6	+	10	6	18	0	Near Kunasiri I.		
760	4	8				–		–			25	12		–		–		–		–		–		–		–		0	58	0			
761	6	e	0	19	23	–		–			19	59		e	19	58		–		–		–		–		–		1	27	0			
762	6	12				–		–			50	35		–		–		–		–		–		–		–		1	27	0			
763	9	12				–		–			19	55		–		–		–		–		–		–		–		2	32	0			
764	10	e	3	15	01	*		–			15	34		*		–		–		–		–		+	7	–		4	35	0			
765	10	?	6	31	22	–		–		?	32	27		?	32	31		–		–		–		—	13	+	25	6	17	0			
766	11	7				–		–		e	27	01		–		–		–		–		–		–		–		2	40	0			
767	11	12				–		–		e	55	28		e	55	29		–		–		–		–		–		1	38	0			
768	12	e	1	47	12	–		–		e	47	35		–		–		–		–		–		–		–		2	19	0			
799	15	19				–		–		e	22	10		–		–		–		–		–		–		–		1	11	0			
770	16	e	18	15	54	–		–		e	16	15		–		–		–		–		–		–		–		2	44	0			

EARTHQUAKES, 1939.

International Seismological Centre

No.	Date 1939	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	m	s	μ		μ		m	s		
771	Nov. 17	9				–	–	?10	30	–	–	–	–	–	–	–	–	–		–		3	54	0	
772	17	18				–	–	e49	57	–	–	–	–	–	–	–	–	–		–		3	37	0	
773	18	1	36	44		36	43	39	37	–	–	–	–	–	–	–	–	+	20	–		13	29	0	Near Syumusyu I.
774	20	e 6	05	19		–	–	e05	46	–	–	–	–	e05	48	–	–	–		–		2	14	0	
775	21	e11	01	46		–	–	02	11	–	–	–	–	02	09	–	–	–		–		3	06	0	
776	21	i11	10	52		10	51	18	12	18	10	–	–	–	–	–	–	+	31	—	30	22	08	0	Distant
777	22	e 5	07	01		e07	00	08	14	e08	15	–	–	–	–	–	–	+	6	–		7	07	0	Off Hatizyo I.
778	22	e 5	46	59		–	–	e48	21	?48	20	–	–	–	–	–	–	—	3	–		5	06	0	E off Hatizyo I.
779	23	e17	15	45		–	–	15	58	–	–	–	–	–	–	–	–	–		–		1	43	0	
780	27	i15	42	16		e42	15	43	00	43	02	–	–	–	–	–	–	—	56	—	115	12	22	0	ENE off Cape Inubô
781	28	0	30	53		30	53	31	09	31	09	–	–	–	–	–	–	—	31	—	40	4	03	1	SE off Kuzi (Iwate)
782	28	e 2	58	17		–	–	58	39	58	39	–	–	–	–	–	–	–		–		3	54	0	
783	29	14	43	07		e43	06	43	26	43	24	–	–	–	–	–	–	—	6	–		4	05	0	Near Oga Peninsula
784	29	14				–	–	?57	42	–	–	–	–	–	–	–	–	–		–		2	48	0	
785	29	22	21	29		21	28	21	55	21	54	–	–	–	–	–	–	—	54	—	75	8	28	1	E off Cape Sioya
786	Dec. 3	e12	41	14		–	–	41	34	–	–	–	–	–	–	–	–	–		–		2	11	0	
787	5	14				–	–	29	00	–	–	–	–	–	–	–	–	–		–		2	00	0	
788	5	e17	37	17		–	–	37	36	e37	36	–	–	–	–	–	–	–		–		4	03	0	
789	6	1				–	–	47	37	–	–	–	–	–	–	–	–	–		–		1	01	0	
790	6	i18	00	31		00	31	00	52	00	53	–	–	–	–	–	–	—	182	—	340	10	09	1	E off Hukusima Pref.
791	7	e 2	12	44		–	–	13	07	e13	07	–	–	–	–	–	–	–		–		2	40	0	
792	7	e 5	16	18		–	–	16	57	–	–	–	–	–	–	–	–	–		–		3	13	0	
793	7	11				–	–	e22	49	–	–	–	–	–	–	–	–	–		–		3	20	0	
794	7	e13	40	42		–	–	41	01	41	00	–	–	–	–	–	–	–		–		2	51	0	
795	7	16				–	–	02	00	–	–	–	–	–	–	–	–	–		–		1	25	0	
796	7	e19	56	33		e56	32	i56	51	56	51	–	–	–	–	–	–	–		–		4	28	0	E off Hukusima Pref.
797	8	e19	17	20		–	–	17	44	e17	44	–	–	–	–	–	–	–		–		2	55	0	
798	9	e 4	15	21		–	–	15	40	–	–	–	–	–	–	–	–	–		–		1	59	0	
799	9	20				–	–	?20	46	–	–	–	–	–	–	–	–	–		–		5	31	0	
800	14	e 5	06	51		e06	52	i08	10	i08	11	–	–	–	–	–	–	—	18	—	25	8	57	0	Off Etoroff I.
801	14	i13	50	28		e50	28	i50	40	i50	39	–	–	–	–	–	–	±	9	–		2	31	0	
802	14	i18	03	19		03	21	i03	33	03	35	–	–	–	–	–	–	—	41	—	65	4	06	0	Near Kuzi (Iwate)
803	14	e20	15	10		–	–	16	11	e16	10	–	–	–	–	–	–	–		–		3	33	0	
804	16	i10	48	09		i48	09	i49	18	i49	17	–	–	–	–	–	–	—	514	+	455	36	32	2	E off Sikotan I.
805	16	14	11	40		e11	40	12	49	12	48	–	–	–	–	–	–	+	20	+	28	4	44	0	〃 〃
806	17	7				–	–	–	–	–	–	–	–	–	–	–	–	–		–		–	–	0	
807	18	? 2	10	20		–	–	?10	44	–	–	–	–	–	–	–	–	–		–		2	11	0	
808	18	9						e26	25	e26	27	–	–	–	–	–	–	–		–		1	17	0	
809	18	i11	38	03		38	03	i38	20	i38	20	–	–	–	–	–	–	—	39	+	58	4	56	1	NE off Miyako
810	19	e 2	00	40		–	–	e01	16	e01	13	–	–	–	–	–	–	+	3	–		5	03	0	
811	20	10	25	11		–	–	i25	47	e25	46	–	–	–	–	–	–	–		–		3	45	0	
812	20	i18	15	20		i15	20	i15	32	i15	32	–	–	–	–	–	–	±	298	+	363	12	09	2	E off Cape Hirota (Iwate)
813	21	i21	08	26		i08	26	i14	42	i14	36	–	–	–	–	–	–		⊕	—	2585	104	32	0	Distant
814	22	e 5	52	16		–	–	52	48	52	49	–	–	–	–	–	–	–		–		3	04	0	
815	22	8	25	25		–	–	25	43	e25	42	–	–	–	–	–	–	–		–		2	50	0	
816	25	e11	21	38		–	–	23	03	e23	05	–	–	–	–	–	–	—	5	–		6	30	0	
817	25	21				–	–	e03	54	–	–	–	–	–	–	–	–	–		–		2	25	0	
818	26	e12	19	17		–	–	19	39	–	–	–	–	–	–	–	–	–		–		3	51	0	
819	26	e19	40	17		–	–	40	44	e40	43	–	–	–	–	–	–	—	6	–		4	45	0	
820	27	e 0	08	52		e08	52	e19	15	e19	19	?36	17	?36	14	+	174	—	865			135	00	0	Turkey
821	27	e 3	10	26		e10	26	e16	49	e16	45	–	–	–	–	+	8	–				19	35	0	New Guinea
822	28	e23	15	19		–	–	15	54	15	53	–	–	–	–	—	5	–				5	23	0	
823	30	e20	05	37		e05	39	06	47	06	46	–	–	–	–	+	10	–				4	30	0	SE off Cape Otisi
824	31	e 2	41	38		–	–	42	05	42	04	–	–	–	–	–		–				3	15	0	
825	31	e 6	36	03		e36	03	36	23	e36	21	–	–	–	–	–		–				3	54	0	

EARTHQUAKES, 1939.

International Seismological Centre

No.	Date 1939	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		μ		μ		m	s		
826	Dec. 31	6	53	57		*e* 53		57		54		46		*e* 54		44		−	63	+	100	9	49	0	Near Tyosi
827	31	*e* 18	28	18		*e* 28		15		28		35		28		35		−	9	+	18	5	26	0	E off Hukusima Pref.

International Seismological Centre

CHIEF EARTHQUAKES OBSERVED WITH NASU'S SEISMOGRAPH, 1939.

Instrument; Nasu's seismograph with three components.

Instrumental constants;

Component	V	T_0	γ/T_0^2	Mass
E–W	25	5.0	0.07	7.2 kg.
N–S	25	5.5	0.06	7.2 kg.
Vertical	25	5.5	0.08	4.4 kg.

Remarks;

1. Direction of the earth's displacement is taken to be 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			First Motion			Epicenter	
				E–W	N–S	Vertical	E–W	N–S	Vertical		
		h m s	m s	μ	μ	μ	μ	μ	μ	λ° (E)	φ° (N)
31	Jan. 13	22 22 33.7	23 03.4	− 376	+ 192	+ 90	×	×	×	142.0	41.5
38	16	0 10 36.8	10 45.2	+ 530	− 340	− 220	− 48	+ 48	⚹	142.0	38.7
59	24	4 2 19.2	2 43.7	− 864	−1144	− 380	+ 4	×	− 28	141.4	37.0
110	Feb. 13	13 33 07.1	33 21.7	+ 210	+ 130	− 82	+ 8	×	− 20	Neighbourhood of Yokote	
114	16	18 51 42.2	52 12.5	⊕	⊕	⚹	+ 8	− 20	⚹	141.5	36.8
125	18	9 18 56.4	19 13.1	+ 150	+ 96	⚹	+ 4	− 12	− 20	141.7	37.8
126	18	11 30 50.5	31 23.7	− 70	− 80	+ 50	×	×	×	E off Hatinohe	
136	23	18 58 04.5	58 41.8	− 90	+ 64	+ 44	− 8	− 8	+ 12	Off Kuzi	
166	Mar. 7	15 17 25.5	17 56.4	+ 306	− 504	+ 86	− 8	− 8	+ 12	144.8	41.0
189	20	3 24 56.9	27 06.2	− 100	+ 140	+ 20	×	×	×	131.8	32.4
203	23	7 39 52.3	40 08.1	+ 190	+ 230	− 84	− 20	+ 36	+ 36	142.2	38.2
221	31	7 19 21.6	20 10.2	− 180	+ 114	+ 184	×	×	×	145.2	42.0
260	Apr. 21	4 31 08.3	32 46.4	⊕	− 866	⊕	+ 20	+ 80	− 96	140.0	47.6
284	May 1	5 58 50.2	59 14.7	⊕	⊕	⊕	+ 72	− 24	+ 60	139.82	39.95
287	1	6 28 43.1	29 03.6	− 424	− 546	+ 210	+ 20	− 16	+ 8	139.8	39.9
296	1	7 28 41.4	29 03.1	−1360	−1096	− 690	− 52	+ 56	− 100	139.6	40.0
319	1	11 51 01.7	51 19.4	− 664	− 704	+ 370	+ 200	− 168	+ 238	139.6	40.0
329	1	13 43 26.3	43 44.7	+ 670	+ 490	− 200	− 40	+ 28	− 36	139.8	39.8
336	1	16 6 15.9	6 37.0	⊕	⊕	⊕	− 12	+ 8	⚹ − 4	139.9	39.8
393	2	15 37 39.6	38 03.6	− 290	− 260	+ 120	− 8	+ 12	− 20	139.8	40.0
412	3	23 55 59.9	56 17.9	− 236	− 182	+ 64	+ 16	− 8	+ 12	Near Oga Pen.	
437	8	8 5 38.3	6 20.4	+ 152	+ 80	− 36	×	×	×	141.1	35.6
446	12	14 5 55.0	6 38.4	+ 64	− 106	− 64	×	×	×	Off Tokati	
462	17	18 34 21.4	37 36.6	+ 290	− 100	− 30	×	×	×	Distant	
536	June 17	18 40 27.4	40 46.9	− 100	− 200	+ 88	+ 8	− 16	− 48	142.5	38.6
538	18	0 41 06.7	41 18.4	− 120	− 138	− 76	+ 20	− 8	− 40	142.0	38.8
555	26	13 23 16.4	24 00.3	+ 104	− 120	+ 50	×	×	×	141.2	36.1
576	July 12	20 10 01.8	11 12.9	− 70	+ 52	+ 50	×	×	×	147.3	42.7
599	27	23 28 37.9	29 42.6	+ 60	− 80	− 40	×	×	×	149.0	42.5
600	28	1 6 56.8	7 16.7	− 240	+ 250	+ 86	− 8	+ 32	+ 28	141.6	37.3
601	28	5 21 50.7	22 11.6	− 316	− 212	+ 100	+ 4	+ 4	+ 12	141.6	37.4
605	29	5 10 39.3	10 53.9	+ 90	+ 122	− 60	×	×	×	141.8	40.1
633	Aug. 12	9 52 12.0	53 50.5	− 90	− 90	− 28	×	×	×	150.5	43.7
642	17	15 46 02.0	46 16.5	+ 504	+ 696	+ 164	+ 8	− 16	− 20	141.7	37.6
654	22	0 6 49.8	7 04.9	⊕	⊕	+1032	+ 60	− 116	− 124	141.8	37.7
661	27	20 15 42.3	16 02.3	+ 232	− 140	− 66	− 4	+ 8	+ 8	E off Hukusima	
677	Sept. 8	12 10 22.4	14 58.7	+ 148	+ 192	− 46	×	×	×	Kamchatka	
678	9	8 11 58.5	12 18.1	− 210	+ 274	− 108	− 12	− 8	+ 20	NE off Miyako	
688	16	6 49 04.9	49 29.3	+ 150	− 124	− 64	×	×	×	E off Hukusima	
695	21	7 37 51.1	38 05.1	+ 640	− 462	− 146	− 12	− 20	− 12	Off Kinkwasan	
722	Oct. 7	21 5 09.4	5 35.0	− 42	− 48	⚹	×	×	×	141.3	36.9
726	10	13 55 22.1	55 43.2	+ 210	+ 170	− 60	×	×	×	141.6	37.5
728	10	18 32 21.6	32 43.2	⊕	⊕	⊕	+ 76	− 44	− 120	143.0	38.4
749	22	14 40 41.6	41 24.7	+ 216	− 200	+ 84	×	− 12	+ 8	144.2	42.4
780	Nov. 27	15 42 16.8	42 58.4	− 120	− 152	+ 64	×	×	×	ENE off Cape Inubô	
781	28	0 30 54.1	31 09.4	− 62	− 58	+ 26	×	×	− 8	SE off Kuzi	
785	29	22 21 29.4	21 52.8	− 84	+ 94	+ 52	×	×	×	141.3	37.0
790	Dec. 6	18 00 30.6	00 52.5	− 450	− 420	− 240	− 20	+ 32	+ 36	141.8	37.7
804	16	10 48 10.0	49 18.2	−1168	+ 876	+ 236	+ 20	+ 20	− 12	147.2	43.7
809	18	11 38 02.2	38 19.6	− 56	− 38	+ 20	+ 8	×	+ 16	NE off Miyako	
812	20	18 15 20.4	15 30.2	− 350	− 426	⚹	+ 124	− 88	⚹	142.1	38.9
813	21	21 8 29.7	14 40 9	+ 448	+ 510	− 216	+ 40	− 112	− 60	Distant	
826	31	6 53 57.3	54 30.1	− 144	+ 124	+ 56	×	×	×	140.8	35.6

PULSATORY OSCILLATIONS, 1939. *(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	2	5	January	3	17	2	16	2	21	10
2		4	13		6	21	5	0	5	19	11
3		7	21		9	17	8	22	9	9	11
4		13	3		14	3	13	11	14	0	5
5		16	3		17	13	17	1	17	5	6
6		18	17		21	20	19	4	19	21	15
7		26	6		28	9	26	10	26	20	6
8		29	17		30	9	29	22	30	5	5
9	February	1	5	February	3	17	2	1	2	13	5
10		5	16		10	19	5	20	7	5	17
11		25	16		28	9	26	18	27	1	7
12	March	2	9	March	4	18	3	0	3	9	5
13		6	12		8	23	6	19	7	7	6
14		11	11		15	0	11	17	12	3	14
15		22	18		24	9	23	16	23	21	5
16		24	21		26	19	25	1	25	5	6
17	April	8	7	April	10	9	9	1	9	11	16
18		13	1		15	4	14	5	14	11	5
19		21	22		23	21	23	9	23	20	6
20		24	0		25	2	24	9	24	12	5
21		26	12		29	11	27	2	27	11	17
22	May	9	7	May	10	9	9	10	9	13	4
23		11	14		14	6	12	22	13	2	8
24		20	6		23	0	20	12	20	18	8
25	June	1	12	June	3	5	1	21	2	2	10
26		25	10		27	12	26	3	26	11	4
27		29	0		30	21	30	0	30	3	4
28	July	13	0	July	13	13	13	4	13	5	2
29	August	4	21	August	8	15	5	6	5	14	12
30		14	22		17	9	16	5	16	7	4
31		20	15		22	9	21	0	21	3	5
32	September	10	17	September	11	17	11	0	11	3	3
33		15	20		16	22	16	1	16	5	7
34		17	15		18	10	18	3	18	6	7
35		20	1		22	0	21	5	21	9	4
36		22	1		24	15	23	11	23	22	4
37		29	0	October	2	2	30	16	30	21	5
38	October	15	23		18	5	16	1	16	6	5
39		19	8		21	21	20	18	21	1	5
40		26	2		29	13	27	7	28	2	17
41	November	4	12	November	6	3	5	3	5	9	12
42		9	17		11	5	10	1	10	9	4
43		12	5		13	13	12	13	13	0	5
44		14	10		17	5	16	10	16	18	4
45		20	12		21	9	20	19	21	1	5
46		22	17		24	5	23	0	23	9	10
47		24	21		27	0	25	12	25	19	10
48		27	2		30	5	29	6	29	11	7
49	December	10	5	December	13	1	10	17	10	23	10
50		13	18		15	9	14	6	14	13	9
51		17	13		19	5	18	0	18	9	4
52		29	21	January (1940)	1	22	31	12	31	17	6

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ERRATA

SEISMOLOGICAL OBSERVATION (1939)

Page		Error	Correction
From	34	Maximum	Maximum
To	49	Range of Motion	Amplitude

International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

January—March

Latitude, 39° 8′ 4″ N.
Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_0 s	$\frac{r}{T_0^2}$
E W	45.0	100	16	0.043
N S	17.6	20	36	0.004

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
1	Jan. 1	ePE	12 14 20				33	
		i SN	14 53					
		eSE	14 51					
		ME	14 58	1.7	+ 6			
		MN	15 19					
		FE	17 24					
		FN	16 42					
2	1	ePE	18 30 25				25	
		ePN	30 26					
		iSE,N	30 50					
		ME	31 00		− 15			
		MN	31 07	0.8		+ 23		
		FE	34 24					
		FN	33 08					
3	2	ePE	12 04 53				26	
		eSN	05 19					
		ME	05 40					
		FE	07 52					
4	2	ePE	22 52 10				29	
		eSE	52 39					
		ME	53 19	1.3	− 5			
		MN	52 37					
		FE	55 20					
		FN	54 54					
5	3	ePE	4 53 12				16	
		SN	53 28					
		eSE	53 30					
		ME	53 48		± 5			
		MN	53 43					
		FE	55 48					
		FN	55 03					
6	3	eSE	6 38 28					
		MN	38 44					
		ME	38 56					
		FE	40 39					
		FN	40 57					

International Seismological Centre

No.	Dete	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
7	Jan. 3	eSE	15 11 00					
		ME	11 28					
		FE	13 15					
8	4	ePE	4 20 44				28	
		SE	21 12					
		eSN	21 12					
		ME	21 56					
		MN	21 41					
		FE	24 28					
		FN	23 15					
9	4	ePE	6 00 11				25	
		SE	00 36					
		eSN	00 36					
		ME	01 02					
		MN	01 03					
		FE	02 50					
		FN	03 02					
10	4	ePE	9 56 40				27	
		SE	57 07					
		eSN	57 10					
		ME	57 18					
		MN	57 21					
		FE	59 35					
		FN	58 26					
11	5	ePE	8 05 21				31	
		SE	05 52					
		ME	06 30	2.8	+ 11			
		MN	06 05					
		FE	09 39					
		FN	08 12					
12	5	ePE	9 19 58				40	
		SE	20 38					
		eSN	20 40					
		ME	21 26	2.4	– 10			
		MN	20 58					
		FE	25 12					
		FN	23 10					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
13	Jan. 5	ePE	11 54 37				35	
		SE	55 12					
		ME	55 41					
		MN	55 37					
		FE	57 50					
		FN	57 52					
14	5	PE	11 04 57				28	
		iSE	05 25					
		eSN	05 26					
		ME	05 39	1.8	+ 10			
		MN	05 36					
		FE	08 55					
		FN	07 37					
15	5	ePE	15 28 44				25	
		iSE	29 09					
		eSN	29 12					
		ME	29 18	1.7	− 18			
		MN	29 26	2.4		+ 25		
		FE	33 22					
		FN	31 52					
16	5	eSE	20 34 58					
		ME	35 08					
		MN	35 00					
		FE	36 55					
		FN	37 12					
17	6	ePE	15 45 27				28	
		iSE	45 55					
		eSN	45 56					
		ME	46 36	1.7	+ 6			
		MN	46 24					
		FE	50 25					
		FN	48 59					
18	6	ePE	18 07 01				28	
		iSE	07 29					
		ME	07 54	1.3	+ 8			
		MN	07 41					
		FE	11 11					
		FN	09 56					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
19	Jan. 7	iPE	13 14 57				25	
		PN	14 56					
		iSE,N	15 22					
		ME	15 55	1.7	− 27			
		MN	15 56	2.4		− 35		
		FE	20 28					
		FN	20 03					
20	7	iPE	13 40 18				18	
		ePN	40 18					
		iSE	40 36					
		SN	40 36					
		ME	40 45		+ 7			
		MN	40 46					
		FE	42 58					
		FN	42 21					
12	8	ePE	1 01 08				23	
		SE	01 31					
		eSN	01 30					
		ME	01 51	2.3	− 10			
		MN	02 00					
		FE	05 05					
		FN	03 46					
22	8	ePE	6 10 26				20	
		SE	10 46					
		ME,N	10 56					
		FE	12 44					
		FN	12 03					
23	8	ePE	14 18 23				22	
		SE-	18 45					
		ME	19 15					
		MN	19 01					
		FE	21 54					
		FN	20 41					
24	10	ePE	7 36 41				16	
		iSE	36 57					
		ME	37 00	1.0	− 5			
		MN	37 03					
		FE	38 56					
		FN	38 08					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. ÀE μ	Max. Amp. ÀN μ	P – S m s	Remarks
25	Jan. 10	ePE	12 10 31				1 00	
		ePN	10 35					
		iSE	11 31					
		eSN	11 31					
		ME	11 58	3.6	+ 33			
		MN	12 07	3.3		+ 53		
		FE	19 50					
		FN	17 46					
26	11	ePE,N	2 53 31				35	
		iSE	54 05					
		iSN	54 07					
		ME	55 34	2.4	− 48			
		MN	55 20	3.6		+ 78		
		FE	3 00 59					
		FN	2 59 43					
27	11	PE	5 02 04				20	
		ePN	02 07					
		iSE,N	02 24					
		ME	02 30	0.5	− 11			
		MN	02 34					
		FE	05 37					
		FN	04 17					
28	12	ePE	6 00 39				42	
		SE	01 21					
		eSN	01 22					
		ME	01 58	1.8	+ 7			
		MN	02 08					
		FE	06 41					
		FN	05 45					
29	12	eSE	23 16 10					
		ME	16 14					
		FE	17 03					
30	13	ePE	2 15 38				12	
		SE	15 50					
		ME	15 58					
		FE	17 11					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
31	Jan. 13	PE,N	22 22 34				28	
		iSE	23 02					
		SN	23 01					
		ME	23 58	2.7	−114			
		MN	23 57	2.4		+140		
		FE	32 27					
		FN	30 43					
32	14	PE	10 45 30				32	
		PN	45 33					
		iSE	46 02					
		iSN	46 05					
		ME	47 15	2.1	− 11			
		MN	46 51	2.2		+ 23		
		FE	50 53					
		FN	49 36					
33	14	ePE	11 16 05				24	
		eSE	16 29					
		ME	17 14					
		MN	17 16					
		FE	19 47					
		FN	18 55					
34	14	ePE	14 13 10				20	
		SE	13 30					
		ME	13 39					
		FE	15 00					
35	14	ePE	18 25 05				15	
		SE	25 20					
		ME	25 33					
		FE	26 59					
36	15	?SE	16 16 08					
		ME	16 17					
		MN	16 11					
		FE	18 18					
		FN	17 07					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
37	Jan. 15	PE	22 29 23				12	
		iSE	29 35					
		eSN	29 35					
		ME	29 38					
		MN	29 37					
		FE	31 03					
		FN	30 07					
38	16	iPN	0 10 37				11	Intensity 2
		iSN	10 48					
		MN	11 19	1.6		−300		
		FE	18 04					
		FN	15 32					
39	16	ePE	11 32 33				31	
		SÉ	33 04					
		ME	33 14					
		MN	33 09					
		FE	36 21					
		FN	35 30					
40	18	ePE	0 43 50				15	
		SE	44 05					
		eSN	44 03					
		ME	44 13					
		MN	44 12					
		FE	45 34					
		FN	45 06					
41	18	eSE	14 42 07					
		ME	42 30					
		FE	44 11					
42	19	ePE	0 20 52				36	
		SE	21 28					
		ME	21 49	1.6	− 6			
		FE	24 14					
43	19	?PE	5 34 54				33	
		?SE	35 27					
		ME	35 44					
		FE	37 16					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
44	Jan. 19	?PE	16 15 18				22	
		iSE	15 40					
		eSN	15 40					
		ME	15 47					
		MN	16 00					
		FE	17 28					
		FN	17 15					
45	19	?PE	21 26 46				18	
		?SE	27 04					
		ME	27 20					
		FE	29 14					
46	20	ePE	22 12 38				33	
		iSE	13 11					
		SN	13 10					
		ME	13 31		+ 3			
		MN	13 11					
		FE	15 25					
		FN	14 46					
47	20	ePE	22 16 48				43	
		SE	17 31					
		ME	17 48		– 6			
		MN	17 49					
		FE	23 00					
		FN	20 25					
48	20	?SE	23 14 21					
		ME	14 37					
		FE	15 40					
49	21	ePE	18 51 56				21	
		SE	52 17					
		eSN	52 17					
		ME	52 30		+ 5			
		MN	52 29					
		FE	55 35					
		FN	54 26					
50	22	ePE	3 22 54				28	N-S, Out of order of the instrument.
		SE	23 22					
		ME	23 52.					
		FE	26 55					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
51	Jan. 22	ePE	4 45 36				5 12	N–S, Out of order of the instrument.
		?SE	50 48					
		ME	46 26	2.4	+ 5			
		FE	59 33					
52	22	eSE	10 56 29					
		ME	56 49					
		MN	56 44					
		FE	58 27					
		FN	57 53					
53	22	?PE	11 13 18					
		?PN	13 22					
		ME	13 33	3.2	+ 6			
		MN	13 48					
		FE	21 21					
		FN	24 32					
54	22	eSE	11 26 44					
		ME	27 16					
		MN	27 07					
		FE	28 59					
		FN	28 05					
55	23	ePE	3 57 37				17	
		iSE	57 54					
		eSN	57 53					
		ME	58 10					
		MN	58 02					
		FE	59 48					
		FN	59 25					
56	23	ePE	13 36 00				21	
		iSE	36 21					
		ME	36 33					
		MN	37 43					
		FE	38 57					
		FN	39 47					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
57	Jan. 23	ePE	16 18 24				26	
		eSE	18 50					
		eSN	18 51					
		ME	19 04					
		MN	19 02					
		FE	20 47					
		FN	20 49					
58	23	ePE,N	18 22 37				48	
		SE	23 25					
		SN	23 24					
		ME	24 28	2.0	+ 25			
		MN	23 30	3.5		− 53		
		FE	29 46					
		FN	31 43					
59	24	iPE	4 02 19				26	Intensity 2
		iPN	02 20					
		iSE	02 46					First Motion
		iSN	02 45					E + 5 μ
		ME	03 09	2.2	−550			N − 40
		MN	03 07	2.2		−975		
		FE	14 54					
		FN	17 39					
60	24	ePE	13 18 25				27	
		SE	18 52					
		ME	19 04					
		FE	20 17					
61	24	PE	18 09 17				26	
		ePN	09 16					
		iSE	09 43					
		SN	09 41					
		ME	10 40	2.4	+ 42			
		MN	10 33	2.4		− 43		
		FE	17 35					
		FN	16 36					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
62	Jan. 25	PE	3 52 08				9 57	
		ePN	52 11					
		SE	4 02 05					
		?LE	41 44					
		?LN	42 54					
		ME	3 53 09					
		MN	53 12					
		FE	5 59 01					
		FN	47 44					
63	25	ePE	9 08 35				17	
		eSE	08 52					
		ME	09 00					
		FE	10 02					
64	25	ePE	12 46 35				34	
		eSE	47 09					
		ME	47 42					
		FE	49 52					
65	25	eSE	14 58 04					
		ME	58 16					
		FE	59 50					
66	25	ePE	17 27 35				39	
		eSE	28 14					
		ME	28 44		— 3			
		FE	31 43					
67	26	ePE	0 55 10				16	
		eSE	55 26					
		ME	55 41					
		FE	56 47					
68	26	ePE	12 31 43				26	
		SE	32 09					
		ME	32 25		— 3			
		FE	34 02					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
69	Jan. 26	iPE	15 54 31				17	
		ePN	54 33					
		iSE	54 48					
		iSN	54 49					
		ME	54 49		± 31			
		MN	54 50					
		FE	58 34					
		FN	56 23					
70	26	ME	23 54 53					
		FE	55 36					
71	27	ePE	10 39 21				1 24	
		ePN	39 23					
		SE	40 45					
		eSN	40 46					
		ME	41 58	2.4	+ 10			
		MN	42 56					
		FE	47 46					
		FN	48 36					
72	28	ePE	11 20 42				12	
		iSE	20 54					
		eSN	20 53					
		ME,N	20 57					
		FE	22 19					
		FN	21 56					
73	28	eSE	18 40 44					
		ME	40 52					
		FE	41 59					
74	28	PE	23 06 44				1 14	
		PN	06 41					
		iSE	07 58					
		iSN	07 56					
		ME	08 04	1.2	+ 17			
		MN	08 01	0.7		− 23		
		FE	12 04					
		FN	10 05					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
75	Jan. 29	eSE	7 52 40					
		ME	52 47					
		MN	53 13					
		FE	55 18					
		FN	54 44					
76	29	ePE	11 39 03				34	
		eSE	39 37					
		ME	40 03					
		MN	39 57					
		FE	42 38					
		FN	41 29					
77	29	PE	16 54 24				24	
		ePN	54 28					
		iSE	54 48					
		iSN	54 50					
		ME	54 55					
		MN	54 54	1.8	+ 18			
		FE	58 58	1.0		− 58		
		FN	56 57					
78	30	PE	2 27 10				6 51	
		PN	27 08					
		SE	34 01					
		SN	34 00					
		LE	37 52					
		LN	37 44					
		MN	41 57	28.9		−2248		
		FE	53 36					
		FN	59 19					
79	30	ePE	4 09 57				19	
		SE,N	10 16					
		ME	10 21		+ 6			
		MN	10 22					
		FE	12 20					
		FN	12 55					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
80	Jan. 30	ePE	6 26 42				25	
		SE	27 07					
		eSN	27 12					
		ME	27 34	1.0	— 6			
		MN	27 36					
		FE	30 45					
		FN	30 04					
81	30	ePE	19 21 26				20	
		SE	21 46					
		eSN	21 46					
		ME	22 06		— 6			
		MN	22 23					
		FE	24 59					
		FN	24 41					
82	30	SE	19 26 46					
		ME	26 51					
		MN	26 57					
		FE	28 13					
83	30	PE	23 58 28				6 22	
		PN	58 27					
		iSE	24 04 50					
		iSN	04 50					
		LE	09 27					
		LN	09 42					
		ME	06 34	3.9	+ 14			
		FE	20 45					
		FN	24 28					
84	31	eSE	5 32 31					
		ME	34 02					
		FE	35 20					
85	31	iPE	16 51 34				20	
		PN	51 36					
		iSE	51 54					
		iSN	51 55					
		ME	52 10	1.4	— 21			
		MN	52 14	1.4		— 35		
		FE	56 50					
		FN	55 11					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
86	Feb. 1	ePE	5 26 09				36	
		SE	26 45					
		ME	26 57	1.5	+ 8			
		MN	26 47					
		FE	30 40					
		FN	28 17					
87	1	PE	11 22 53				27	
		ePN	22 53					
		iSE	23 19					
		SN	23 21					
		ME	23 37	1.6	+ 19			
		MN	23 26					
		FE	28 04					
		FN	26 00					
88	1	ePE	11 44 22				34	
		SE	44 56					
		ME	45 14					
		MN	45 16					
		FE	46 54					
		FN	46 56					
89	1	ePE	14 34 08				19	
		SE	34 27					
		ME	34 45					
		MN	34 48					
		FE	36 22					
		FN	36 15					
90	2	eSE	5 04 57					
		ME	05 17					
		FE	06 43					
91	2	ePE	15 53 10				24	
		ePN	53 12					
		iSE	53 35					
		iSN	53 35					
		MN	54 10	1.4	− 11			
		ME	53 55					
		FE	57 58					
		FN	56 15					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
92	Feb. 2	ePE	16 09 21				22	
		SE	09 43					
		ME	09 58					
		MN	09 50					
		FE	11 09					
		FN	10 54					
93	3	PE	5 35 22				7 16	
		ePN	35 21					
		SE	42 38					
		SN	42 41					
		LE	48 31					
		LN	48 40					
		ME	52 35	19.2	+ 15			
		MN	55 54	18.1		+130		
		FE	6 23 40					
		FN	45 06					
94	5	iPE	18 42 02				16	
		ePN	42 01					
		iSE	42 18					
		iSN	42 18					
		ME	42 20	0.9	+ 35			
		MN	42 20	0.5		− 50		
		FE	46 01					
		FN	44 05					
95	6	ePE	17 10 32				54	
		SE	11 26					
		ME	12 15		+ 9			
		MN	11 40					
		FE	15 07					
		FN	14 08					
96	7	?PE	14 11 42				1 17	
		SE	12 59					
		?SN	12 57					
		ME	13 30	2.4	+ 10			
		MN	16 28					
		FE	19 17					
		FN	25 19					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
97	Feb. 7	?PE	10 09 29				27	
		SE	09 56					
		ME	10 22					
		MN	10 30					
		FE	13 10					
		FN	13 22					
98	7	ePE	18 31 52				32	
		SE	32 24					
		ME	33 37	2.2	− 10			
		MN	33 14					
		FE	37 51					
		FN	37 09					
99	8	ePE	15 17 23				36	
		ePN	17 22					
		iSE	17 59					
		SN	17 58					
		ME	18 58	2.6	− 52			
		MN	18 41	2.4		+ 75		
		FE	25 39					
		FN	23 41					
100	9	ePE	0 20 54				32	
		SE	21 26					
		ME	21 44					
		MN	21 40					
		FE	23 41					
		FN	23 21					
101	9	ePE	11 01 26				15	
		SE	01 41					
		eSN	01 44					
		ME	01 57					
		MN	01 54					
		FE	04 18					
		FN	03 33					
102	10	ePE	12 27 06				1 27	
		iSE	28 33					
		eSN	28 32					
		ME	29 04	1.7	− 6			
		MN	29 18					
		FE	33 18					
		FN	32 03					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P - S m s	Remarks
103	Feb. 10	ePE	15 49 53				22	
		ePN	49 54					
		iSE	50 15					
		SN	50 16					
		ME	50 20	0.7	+ 13			
		MN	50 26					
		FE	54 04					
		FN	53 11					
104	11	ePE	0 06 53				33	
		SE	07 26					
		ME	07 49					
		MN	07 17					
		FE	09 31					
		FN	09 40					
105	11	ePE	3 31 04				21	
		SE	31 25					
		ME	31 30					
		MN	31 45					
		FE	33 29					
		FN	34 01					
106	11	ePE	20 31 34				1 04	
		ePN	31 33					
		iSE	32 38					
		SN	32 38					
		ME	33 05	2.4	+ 10			
		MN	33 22					
		FE	37 18					
		FN	37 37					
107	12	ePE	0 55 57				7	
		eSE	56 04					
		ME	56 11					
		MN	56 11					
		FE	57 30					
		FN	57 12					
108	12	ePE	8 51 08				31	
		SE	51 39					
		ME	51 51	1.3	+ 4			
		MN	51 50					
		FE	54 40					
		FN	53 19					

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
109	Feb. 12	ePE	21 51 15				12	
		iSE	51 27					
		eSN	51 25					
		ME	51 32					
		MN	51 32					
		FE	52 42					
		FN	52 20					
110	12	iPE	13 33 08				12	
		PN	33 07					
		iSE	33 20					
		iSN	33 18					
		ME	33 22	2.4	−125			
		MN	33 23	1.7		+108		
		FE	38 04					
		FN	37 23					
111	13	eSE	18 10 55					
		ME	11 05					
		FE	12 07					
112	14	eSE	14 14 57					
		ME	15 04					
		FE	16 36					
113	15	ePE	9 59 51				20	
		SE	10 00 11					
		eSN	00 11					
		ME	00 15	1.0	+ 4			
		MN	00 34					
		FE	01 46					
		FN	02 03					
114	16	iPE	18 51 43				28	Intensity 1
		iPN	51 42					First Motion
		iSE	52 09					E 3 μ
		iSN	52 12					S 18 μ
		MN	52 47	3.0		+2688		
		FN	' 9 27 22					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
115	Feb. 16	ePE	22 22 37				21	
		iSE	22 58					
		SN	22 57					
		ME	23 04	1.2	− 8			
		MN	23 03					
		FE	25 53					
		FN	25 43					
116	16	ePE	23 39 22				14	
		ePN	39 23					
		iSE	39 36					
		SN	39 36					
		ME	39 37		− 13			
		MN	39 46					
		FE	42 [3]42					
		FN	41 06					
117	17	ePE	0 22 39				23	
		iSE	23 02					
		eSN	23 02					
		ME	23 28		+ 6			
		MN	23 [5]15					
		FE	25 35					
		FN	24 59					
118	17	ePE	4 20 54				21	
		iSE	21 15					
		eSE	21 14					
		ME	21 41		+ 6			
		MN	21 33					
		FE	23 37					
		FN	23 17					
119	17	ePE	6 46 13				19	
		ePN	46 14					
		iSE	46 32					
		SN	46 34					
		ME	47 09	2.0	− 14			
		MN	47 19	2.3		+ 18		
		FE	51 01					
		FN	52 42					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
120	Feb. 17	ePE	10 10 40				18	
		SE	10 58					
		ME	11 14					
		MN	11 17					
		FE	12 27					
		FN	12 50					
121	17	ePE	19 13 57				18	
		SE	14 15					
		eSN	14 17					
		ME	14 26		− 5			
		MN	14 35					
		FE	16 53					
		FN	17 12					
122	17	ePE	20 58 57				33	
		ePN	58 57					
		SE	59 30					
		eSN	59 31					
		ME	59 43	1.2	− 6			
		MN	59 40					
		FE	21 02 09					
		FN	01 27					
123	17	ePE	21 42 54				12	
		SE	43 06					
		ME	43 24					
		MN	43 27					
		FE	44 54					
		FN	44 43					
124	18	ePE	9 14 15				17	
		SE	14 32					
		eSN	14 33					
		ME	14 40					
		MN	14 55					
		FE	16 18					
		FN	16 26					
125	18	iPE	9 18 56				18	Intensity 1
		iPN	18 55					
		iSE	19 13					
		iSN	19 14					
		ME	19 27		+ 68			
		MN	19 27	1.3		+ 95		
		FE	25 57					
		FN	24 45					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
126	Feb. 18	iPE	11 30 50				32	
		iPN	30 52					
		iSE	31 22					
		iSN	31 23					
		ME	32 15	2.0	− 50			
		MN	32 18	1.9		− 58		
		FE	38 48					
		FN	38 43					
127	18	ePE	13 13 30				29	
		SE	13 59					
		ME	14 13					
		MN	14 15					
		FE	16 22					
		FN	16 21					
128	18	ePE	17 53 36				23	
		ePN	53 39					
		iSE	53 59					
		iSN	53 59					
		ME	54 07		+ 25			
		MN	54 08	1.2		+ 35		
		FE	58 46					
		FN	58 12					
129	19	ePE	8 16 12				35	
		SE	16 47					
		SN	16 46					
		ME	16 57		− 9			
		MN	16 56					
		FE	21 27					
		FN	19 58					
130	20	ePE	22 09 01				31	
		iSE	09 32					
		eSN	09 32					
		ME	09 53	1.5	− 6			
		MN	09 49					
		FE	12 14					
		FN	11 35					
131	20	?PE	23 57 08				20	
		SE	57 28					
		ME	57 48					
		FE	58 43					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
132	Feb. 21	eSE	4 14 07					
		ME	14 18					
		FE	15 27					
133	22	ePE	0 29 47				22	
		SE	30 09					
		eSE	30 10					
		ME	30 44					
		MN	30 47					
		FE	32 22					
		FN	32 03					
134	22	?SE	11 37 10					
		ME	37 25					
		FE	38 10					
135	23	eSE	5 46 50					
		ME	47 02					
		MN	47 29					
		FE	48 07					
		FN	48 17					
136	23	iPE	18 58 04				37	
		iPN	58 03					
		iSE	58 41					
		iSN	58 39					
		ME	58 50	1.2	− 66			
		MN	59 08	1.2		+ 85		
		FE	19 06 55					
		FN	03 40					
137	23	ePE	19 26 31				27	
		SE	26 58					
		eSN	26 58					
		ME	27 06	0.8	− 5			
		MN	27 29					
		FE	29 23					
		FN	28 42					
138	24	?PE	1 24 33				1 30	
		?SE	26 03					
		?SN	26 03					
		ME	26 06					
		MN	26 19					
		FE	29 18					
		FN	28 51					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
139	Feb. 24	ePE	9 56 03				22	
		SE	56 25					
		ME	56 41					
		FE	58 34					
140	24	?SE	13 09 04					
		ME	09 19					
		FE	10 28					
141	24	PE	14 23 28				2 55?	
		ePN	23 30					
		?SE	26 20					
		?SN	26 27					
		FE	31 54					
		FN	30 24					
142	24	eSE	16 49 47					
		ME	50 09					
		FE	51 21					
143	25	ePE	6 54 19				23	
		SE	54 42					
		ME	54 52					
		MN	54 59					
		FE	56 22					
		FN	55 53					
144	25	ePE	22 40 24				17	
		eSE	40 41					
		ME	40 55					
		FE	42 24					
145	26	ePE	14 10 11				27	
		ePN	10 11					
		iSE	10 38					
		eSN	10 37					
		ME	10 55	1.2	– 15			
		MN	10 59					
		FE	14 39					
		FN	13 22					
146	26	eSE	16 20 19					
		ME	20 58					
		MN	20 26					
		FE	22 59					
		FN	21 56					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
147	Feb. 28	?PE	2 43 58				3 46?	
		?PN	43 55					
		?SE	47 36					
		?SE	47 48					
		ME	44 57					
		FE	56 38					
		FN	56 51					
148	28	ePE	17 19 27				27	
		SE	19 54					
		eSN	19 53					
		ME	20 14					
		MN	20 52					
		FE	23 41					
		FN	23 35					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
149	Mar. 1	ePE	6 51 55				39	
		iSE	52 34					
		eSN	52 32					
		ME	52 42	1.1	+ 10			
		MN	52 37					
		FE	57 48					
		FN	56 32					
150	1	ePE	15 22 37				24	
		ePN	22 37					
		SE	23 00					
		SN	23 02					
		ME	23 19	1.7	− 11			
		MN	23 40					
		FE	27 37					
		FN	26 06					
151	1	ePE	15 36 37				25	
		SE	37 02					
		eSN	37 04					
		ME	37 45	1.6	− 8			
		MN	37 20					
		FE	41 02					
		FN	39 53					
152	2	eSE	4 16 42					
		ME	16 46		+ 4			
		FE	19 39					
153	2	PE	7 08 19				6 02	
		?PN	08 13					
		eSE	14 21					
		?SN	14 29					
		ME	08 24	1.7	+ 7			
		FE	22 48					
		FN	29 31					
154	2	eSE	22 37 45					
		ME	37 57					
		FE	38 54					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
155	Mar. 2	ePE	23 12 05				25	
		SE	12 30					
		eSN	12 29					
		ME	13 18	1.8	– 5			
		MN	12 41					
		FE	16 59					
		FN	16 44					
156	3	PE	22 52 49				33	
		ePN	52 48					
		iSE	53 21					
		eSN	53 22					
		ME	53 28	2.1	– 10			
		MN	53 38	2.4		– 23		
		FE	57 35					
		FN	56 18					
157	4	iPE	8 49 47				9	
		iPN	49 47					
		iSE	49 56					
		iSN	49 56					
		ME	49 59	?	± 15			
		MN	49 57	?		± 40		
		FE	52 40					
		FN	51 25					
158	4	ePE	9 10 11				35	
		iSE	10 46					
		ME	11 24	1.8	– 4			
		MN	11 00					
		FE	14 12					
		FN	12 35					
159	4	ePE	10 19 56				44	
		iSE	20 40					
		iSN	20 41					
		ME	20 46	1.1	– 14			
		MN	20 49					
		FE	24 35					
		FN	22 43					
160	4	ePE	14 03 36				25	
		eSE	04 01					
		ME	04 17					
		FE	06 29					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
161	Mar. 5	SE	5 11 06					
		ME	11 14					
		FE	12 19					
162	5	PE	6 19 16				19	
		ePN	19 19					
		iSE	19 36					
		SN	19 36					
		ME	20 12	1.9	— 6			
		MN	19 53					
		FE	22 49					
		FN	22 10					
163	6	ePE	3 12 35				19	
		SE	12 54					
		ME	13 01	0.6	— 5			
		MN	13 37					
		FE	15 01					
		FN	14 38					
164	6	?PE	14 10 37				20	
		eSE	10 57					
		ME	11 25					
		MN	11 35					
		FE	13 55					
		FN	14 34					
165	6	ePE	22 09 11				22	
		iSE	09 43					
		eSN	09 43					
		ME	09 46	?	— 8			
		MN	09 49					
		FE	12 54					
		FN	11 46					
166	7	iPE	15 17 25				30	
		iPN	17 26					
		iSE	17 55					
		iSN	17 55					
		ME	19 02	?	+166			
		MN	18 19	2.4		−272		
		FE	33 42					
		FN	38 07					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
167	Mar. 7	ePE	23 58 46				34	
		iSE	59 20					
		SN	59 21					
		ME	59 49	1.7	+ 28			
		MN	59 50	2.1		− 45		
		FE	24 05 49					
		FN	04 07					
168	8	eSE	6 58 09					
		ME	58 37					
		FE	7 01 06					
169	8	eSE	16 39 25					
		ME	39 44					
		FE	41 51					
170	8	ePE	22 07 01				7 21?	
		?PN	06 33					
		SE	14 08					
		?SN	14 08					
		FE	24 41					
		FN	26 26					
171	9	PE	1 27 10				23	
		ePN	27 09					
		iSE	27 33					
		iSN	27 32					
		ME	27 45	0.7	− 41			
		MN	27 40	?		+ 53		
		FE	33 36					
		FN	32 47					
172	9	eSE	5 15 20					
		ME	15 22					
		FE	16 29					
173	9	PE	18 13 22				35	
		PN	13 24					
		iSE	13 58					
		iSN	13 58					
		ME	14 31	2.3	+ 31			
		MN	14 06	2.1		+ 50		
		FE	20 32					
		FN	18 09					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
174	Mar. 9	?PE	22 11 52				8	
		?SE	12 00					
		ME	12 08					
		FE	13 12					
175	10	ePE	2 48 16				4 12?	
		?PN	48 18					
		eSE	52 28					
		?SN	52 29					
		FE	59 16					
		FN	56 19					
176	10	ePE	3 02 21				4 26?	
		ePN	02 24					
		eSE	06 59					
		?SN	06 38					
		FE	43 47					
		FN	17 15					
177	10	ePE	19 45 13				25	
		SE	45 38					
		eSN	45 37					
		ME	45 54		− 7			
		MN	45 55					
		FE	48 31					
		FN	50 31					
178	10	PE	21 59 26				1 16	
		iSE	22 00 42					
		eSN	00 45					
		ME	01 05		− 11			
		MN	01 14					
		FE	05 05					
		FN	15 01					
179	10	PE	23 28 10				25	
		iSE	28 35					
		eSN	28 34					
		ME	28 41		− 10			
		MN	28 41					
		FE	32 17					
		FN	31 51					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
180	Mar. 11	PE	13 43 54				30	
		iSE	44 24					
		eSN	44 24					
		ME	44 59	2.0	+ 11			
		MN	45 08	1.3		− 10		
		FE	50 30					
		FN	49 36					
181	12	PE	16 55 07				30	
		iSE	55 37					
		SN	55 38					
		ME	56 19	2.8	− 18			
		MN	56 41	2.4		+ 25		
		FE	17 02 05					
		FN	03 30					
182	15	ePE	0 56 43				47	
		iSE	57 30					
		eSN	57 31					
		ME	58 06	1.9	+ 14			
		MN	57 47	1.2		− 25		
		FE	1 01 18					
		FN	00 10					
183	15	ePE	1 35 40				28	
		ePN	35 40					
		SE	36 08					
		eSN	36 07					
		ME	36 45	2.1	− 9			
		MN	36 32					
		FE	41 18					
		FN	40 12					
184	16	ePE	14 42 43				23	
		SE	43 06					
		eSN	43 07					
		ME	43 15					
		MN	43 48					
		FE	45 27					
		FN	45 39					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
185	Mar. 16	ePE	22 15 40				39	
		SE	16 19					
		eSN	16 17					
		ME	16 45	1.9	+ 5			
		MN	16 21					
		FE	19 36					
		FN	20 13					
186	19	ePE	9 04 43				48	
		SE	05 31					
		SN	05 33					
		ME	05 41	2.5	– 4			
		MN	06 01					
		FE	09 58					
		FN	08 40					
187	19	ePE	11 20 50				54	
		ePN	20 50					
		iSE	21 44					
		SN	21 42					
		ME	23 10	2.3	+ 11			
		MN	22 55	1.7		– 25		
		FE	27 17					
		FN	26 59					
188	19	eSE	13 56 18					
		ME	57 06					
		MN	56 37					
		FE	58 55					
		FN	58 58					
189	20	iPE	3 24 57				2 11	
		iPN	24 57					
		iSE	27 09					
		iSN	27 07					
		ME	28 41	?	+189			
		MN	29 27	?		+388		
		FE	53 34					
		FN	56 43					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
190	Mar. 20	PE	6 52 43				32	
		ePN	52 44					
		iSE	53 16					
		SN	53 15					
		ME	54 08	2.4	− 25			
		MN	53 57	1.6		+ 28		
		FE	7 00 42					
		FN	6 58 33					
191	20	eSE	7 04 00					
		ME	04 31					
		FE	07 08					
192	21	iPE	1 21 28				8 28	Time is not accurate
		ePN	21 27					
		SE	29 56					
		SN	29 55					
		LE	37 17					
		LN	37 05					
		ME	50 38	18.0	− 10			
		MN	50 55	14.7		−165		
		FE	2 12 05					
		FN	12 32					
193	21	ePE	9 34 33				10	
		eSE	34 43					
		ME	34 55					
		MN	34 51					
		FE	36 01					
		FN	35 30					
194	21	PE	10 05 54				16	
		ePN	05 53					
		iSE	06 10					
		eSN	06 10					
		ME	06 18	0.8	− 15			
		MN	06 14					
		FE	09 38					
		FN	08 19					
195	21	ePE	17 58 18				25	
		SE	58 43					
		ME	58 56					
		MN	59 03					
		FE	18 01 15					
		FN	00 21					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
196	Mar. 22	ePE	3 26 42				20	
		SE	27 02					
		eSN	27 03					
		ME	27 18	0.8	+ 5			
		MN	27 29					
		FE	30 18					
		FN	29 43					
197	22	PE	3 53 48				6 36	
		ePN	53 46					
		SE	4 00 23					
		SN	00 24					
		FE	11 15					
		FN	12 06					
198	22	PE	4 40 01				36	
		PN	39 59					
		iSE	40 36					
		eSN	40 36					
		ME	41 09	2.4	+ 15			
		MN	41 22	2.2		− 20		
		FE	45 57					
		FN	45 39					
199	22	ePE	9 04 06				11	
		SE	04 17					
		eSN	04 14					
		ME	04 27					
		MN	04 29					
		FE	05 54					
		FN	05 32					
200	22	ePE	13 33 26				24	
		SE	33 50					
		eSN	33 51					
		ME	34 22					
		MN	34 04					
		FE	36 38					
		FN	35 36					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
201	Mar. 22	ePE	15 50 37				21	
		iSE	50 58					
		eSN	51 00					
		ME	51 13					
		MN	51 17					
		FE	53 52					
		FN	53 01					
202	22	ePE	22 02 36				23	
		iSE	02 59					
		ME	03 27					
		MN	03 23					
		FE	05 22					
		FN	05 01					
203	23	iPE	7 39 53				15	
		PN	39 53					
		iSE	40 08					
		iSN	40 09					
		ME	40 59	2.4	+130			
		MN	40 25	2.4		−188		
		FE	47 39					
		FN	45 29					
204	23	ePE	10 30 24				20	
		SE	30 44					
		ME	30 57					
		FE	33 23					
205	23	eSE	11 06 54					
		ME	07 03					
		FE	07 59					
206	23	ePE	23 49 47				21	
		SE	50 08					
		ME	50 14	0.9	— 4			
		MN	50 17					
		FE	53 26					
		FN	55 05					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
207	Mar. 24	PE	4 14 26				30	
		ePN	14 27					
		iSE	14 56					
		iSN	14 56					
		ME	15 25		+ 16			
		MN	15 07	2.0		+ 23		
		FE	19 18					
		FN	19 36					
208	24	PE	4 34 58				29	
		ePN	34 57					
		iSE	35 27					
		SN	35 26					
		ME	36 37	2.4	+ 25			
		MN	35 49	1.0		– 25		
		FE	41 09					
		FN	39 01					
209	24	PE	5 30 01				30	
		ePN	29 59					
		iSE	30 30					
		SN	30 31					
		ME	31 20	2.0	– 7			
		MN	30 58					
		FE	34 22					
		FN	34 07					
210	24	ePE	7 00 38				30	
		SE	01 08					
		eSN	01 10					
		ME	01 15	?	– 3			
		MN	01 23					
		FE	03 37					
		FN	03 29					
211	24	ePE	12 32 00				11	
		SE	32 11					
		ME	32 16					
		MN	32 26					
		FE	33 55					
		FN	35 01					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
212	Mar. 25	ePE	2 27 46				21	
		SE	28 07					
		ME	28 39		– 6			
		MN	28 25					
		FE	31 05					
		FN	30 25					
213	26	ePE	0 52 30				1 00	
		ePN	52 28					
		iSE	53 29					
		iSN	53 30					
		ME	53 39	2.4	– 14			
		MN	54 33	2.5		+ 25		
		FE	1 00 03					
		FN	0 57 59					
214	27	ePE	15 02 03				25	
		SE	02 28					
		ME	02 39					
		MN	02 37					
		FE	04 08					
		FN	03 56					
215	28	ePE	0 53 04				12	
		SE	53 16					
		ME	53 19					
		FE	54 18					
216	28	ePE	13 29 16				34	
		SE	29 50					
		eSN	29 52					
		ME	30 18					
		MN	30 09					
		FE	32 37					
		FN	32 15					
217	28	eSE	17 57 00					
		ME	57 15					
		MN	57 05					
		FE	59 03					
		FN	58 39					
218	29	ePE	0 26 16				6 28	
		eSE	32 44					
		FE	39 54					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
219	Mar. 29	ePE	11 17 13				33	
		iSE	17 46					
		eSN	17 43					
		ME	18 40	?	− 5			
		MN	18 14					
		FE	21 16					
		FN	21 10					
220	29	ePE	14 50 01				25	
		SE	50 26					
		ME	50 33					
		MN	50 47					
		FE	53 22					
		FN	53 31					
221	31	PE	7 19 22				50	
		PN	19 21					
		iSE	20 12					
		iSN	20 11					
		ME	20 14	1.8	−130			
		MN	20 21	1.9		−150		
		FE	26 59					
		FN	26 09					

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昭和十四年八月十二日印刷
昭和十四年八月十五日發行

緯度觀測所

岩手縣水澤町

岩手縣水澤町表小路十二番地
印刷人　佐々木正藏
岩手縣水澤町裏町四番地
印刷所　水澤印刷株式會社

International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

April—June

Latitude, 39° 8′ 4″ N.

Longitude, 141° 7′ 52″ E.

Height above mean sea level, 61m.

Sub-soil, Diluvial Formation.

Instrument, Omori's Horizontal Pendulum Seismograph.

Instrumental Constants,

Comp.	M kg.	V	T_o s	$\frac{r}{T_o^2}$
E W	45.0	100	16	0.043
N S	17.6	20	36	0.004

International Seismological Centre

No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
222	Apr. 2	eSE	7	33	13						
		ME		33	22						
		FE		34	52						
223	3	ePE	1	29	03					17	
		SE		29	20						
		ME		29	46	1.0	−3				
		MN		29	40						
		FE		32	15						
		FN		32	56						
224	3	ePE	11	19	55					31	
		eSE		20	26						
		eSN		20	28						
		ME		21	00						
		MN		21	06						
		FE		22	47						
		FN		23	19						
225	4	ePE	3	26	48					28	
		SE		27	16						
		ME		27	52						
		MN		27	59						
		FE		30	15						
		FN		29	40						
226	4	eSE	6	34	21						
		ME		34	31						
		FE		35	29						
227	4	ePE	7	01	52					21	
		SE		02	13						
		eSN		02	13						
		ME		02	29						
		MN		02	21						
		FE		04	15						
		FN		03	50						
228	5	ePE	1	25	39					25	
		ePN		25	42						
		SE		26	04						
		eSN		26	04						
		ME		26	18						
		MN		26	27						
		FE		28	52						
		FN		28	19						

International Seismological Centre

No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
229	Apr. 5	ePE	16 53 18				8 35	
		ePN	53 17					
		eSE	17 01 53					
		eSN	01 51					
		eLE,N	09 04					
		ME	16 46	20.7	−6			
		MN	16 28	19.5		+68		
		FE	40 32					
		FN	45 53					
230	6	?SE	2 35 19					
		ME	35 49					
		FE	38 34					
231	6	?PE	3 19 25				1 00	
		SE	20 25					
		ME	20 48					
		MN	20 51					
		FE	23 36					
		FN	24 22					
232	6	ePE	5 04 03				25	
		SE	04 28					
		eSN	04 28					
		ME	04 39					
		MN	04 36					
		FE	06 28					
		FN	06 04					
233	6	?SE	8 32 08					
		ME	32 14					
		FE	33 38					
234	7	ePE	6 30 57				30	
		SE	31 27					
		eSN	31 26					
		ME	31 33					
		MN	31 43					
		FE	33 36					
		FN	33 21					
235	7	PE	16 05 13				43	
		ePN	05 12					
		SE	05 56					
		SN	05 57					
		ME	06 46	2.9	+16			
		MN	07 01					
		FE	12 35					
		FN	12 57					

International Seismological Centre

No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P–S m s	Remarks
236	Apr. 8	?PE	12 02 30				19	
		SE	02 49					
		ME	02 55					
		FE	04 29					
237	9	ePE	8 16 04				32	
		iSE	16 36					
		eSN	16 37					
		ME	16 54		+10			
		MN	16 59					
		FE	20 00					
		FN	19 08					
238	9	?PE	15 18 58				28	
		?SE	19 26					
		ME	19 52					
		FE	21 34					
239	9	ePE	15 46 14				13	
		iSE	46 27					
		ME	46 35					
		FE	47 56					
240	10	ePE	11 26 13				54	
		ePN	26 13					
		iSE	27 07					
		SN	27 07					
		ME	27 15		−14			
		MN	27 12					
		FE	31 12					
		FN	29 45					
241	10	PE	12 46 45				21	
		iSE	47 06					
		ME	47 24		−3			
		MN	47 18					
		FE	49 01					
		FN	48 53					
242	10	eSE	19 29 17					
		ME	29 23					
		FE	30 49					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
243	Apr. 11	ePE	21	49	50				51		
		iSE		50	41						
		SE		50	40						
		ME		50	49						
		MN		50	48						
		FE		53	26						
		FN		53	00						
244	11	PE	22	01	51				18		
		ePN		01	52						
		iSE		02	09						
		SN		02	08						
		ME		02	33	2.4	−14				
		MN		02	14						
		FE		05	29						
		FN		04	46						
245	12	PE	17	15	42				22		
		ePN		15	42						
		iSE		16	04						
		SN		16	06						
		ME		16	37	2.1	−16				
		MN		16	48	1.7		+28			
		FE		21	42						
		FN		20	48						
246	12	eSE	23	13	24						
		ME		13	37						
		FE		15	04						
247	13	?SE	8	11	30						
		ME		11	40						
		FE		13	02						
248	13	eSE	15	25	22						
		ME		25	52						
		FE		27	35						
249	14	ePE,N	3	23	02				32		
		iSE		23	34						
		SN		23	34						
		ME		23	50	2.1	+23				
		MN		24	15	2.4		−25			
		FE		29	24						
		FN		28	21						

International Seismological Centre

No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
250	Apr. 14	ePE	7 14 21				20	
		eSE	14 41					
		ME	14 52					
		FE	17 14					
251	14	ePE	17 29 43				22	
		SE	30 05					
		eSN	30 05					
		ME	30 38	2.4	+6			
		MN	30 31					
		FE	34 00					
		FN	32 27					
252	15	ePE	9 06 59				1 05	
		eSE,N	08 04					
		ME	09 06					
		MN	09 25					
		FE	13 50					
		FN	20 26					
253	15	ePE	11 21 36				11	
		SE	21 47					
		SN	21 48					
		ME	21 50					
		MN	21 51					
		FE	23 05					
		FN	22 42					
254	16	?SE	16 05 47					
		ME	05 59					
		FE	07 29					
255	18	PE	3 50 50				33	
		SE	51 23					
		ME	51 55					
		FE	54 20					
256	18	PE,N	6 42 35				11 45	
		?SE	54 20					
		?SN	54 30					
		ME	7 43 35	18.6	+11			
		MN	40 04	20.2		—50		
		FE	8 51 14					
		FN	34 01					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
257	Apr. 20	ePE	8	06	35					7	
		ePN		06	35						
		iSE		06	42						
		SN		06	43						
		ME		06	47		+6				
		ME		06	44						
		FE		08	35						
		FN		07	44						
258	21	ePE	1	18	40					31	
		eSE		19	11						
		ME		19	27						
		MN		19	38						
		FE		21	46						
		FN		21	46						
259	21	ePE	3	13	55					33	
		iSE		14	28						
		eSN		14	28						
		ME		15	07		−5				
		MN		15	01						
		FE		18	46						
		FN		17	50						
260	21	iPE	4	31	09					1 37	
		iPN		31	09						
		iSE		32	46						
		iSN		32	47						
		MN		32	54	2.3		+748			ME Out of the range of the instrument
		FE		49	51						
		FN		51	04						
261	21	iPE	17	19	24					15	
		ePN		19	21						
		iSE		19	39						
		iSN		19	38						
		ME		19	42	2.4	−30				
		MN		19	43						
		FE		24	12						
		FN		23	22						
262	22	eSE	10	53	27						
		ME		53	37						
		FE		55	40						
263	22	eSE	11	31	44						
		ME		32	11						
		MN		32	13						
		FE		34	55						
		FN		35	02						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
264	Apr. 22	ePE	12	27	33					30	
		eSE		28	03						
		ME		28	15						
		MN		28	17						
		FE		30	45						
		FN		30	55						
265	23	ePE	9	07	48					33	
		SE		08	21						
		eSN		08	19						
		ME		09	01	2.0	—5				
		MN		08	40						
		FE		13	14						
		FN		10	54						
266	23	eSE	9	19	15						
		ME		19	26						
		FE		20	53						
267	23	ePE	17	40	14					44	
		iSE		40	58						
		eSN		40	56						
		ME		41	15	2.6	—11				
		MN		41	35	2.5		—20			
		FE		47	05						
		FN		48	21						
268	23	ePE	21	01	04					31	
		iSE		01	35						
		ME		02	03	2.5	—5				
		MN		02	50						
		FE		05	23						
		FN		05	35						
269	24	PE	8	11	14					27	
		SE		11	41						
		ME		12	04						
		FE		14	30						
270	24	PE	9	41	18					22	
		ePN		41	19						
		iSE		41	40						
		SN		41	40						
		ME		41	48		+43				
		MN		41	52			+38			
		FE		48	08						
		FN		46	15						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
271	Apr. 24	ePE	10	56	49					21	
		SE		57	10						
		SN		57	10						
		ME		57	57	2.1	+10				
		MN		57	26						
		FE	11	00	56						
		FN	10	59	53						
272	24	ePE	12	33	11					29	
		SE		33	40						
		SN		33	40						
		ME		33	47	3.0	−14				
		MN		33	53						
		FE		37	23						
		FN		36	02						
273	24	eSE	13	45	14						
		ME		45	19						
		FE		47	13						
274	24	ePE	23	05	34					48	
		ePN		05	35						
		SE		06	22						
		eSN		06	22						
		ME		06	34	2.4	+26				
		MN		07	06	3.2		−40			
		FE		14	12						
		FN		15	18						
275	25	ePE	4	51	34				1	16	
		iSE		52	50						
		SN		52	50						
		ME		53	19	1.0	−7				
		MN		53	21						
		FE		58	29						
		FN		58	36						
276	26	ePE	1	42	52					35	
		SE		43	27						
		ME		43	42						
		FE		46	26						
277	26	ePE	11	21	41				1	08	
		SE		22	49						
		eSN		22	50						
		ME		23	01	2.7	+8				
		MN		23	17						
		FE		29	42						
		FN		32	29						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
278	Apr. 26	?SE	18	36	40						
		eSN		36	40						
		ME		36	52		−6				
		MN		36	58						
		FE		39	43						
		FN		39	41						
279	29	ePE	7	13	07					23	
		ePN		13	09						
		iSE		13	30						
		SN		13	31						
		ME		13	39	0.7	−10				
		MN		13	38						
		FE		18	02						
		FN		15	52						
280	29	ePE	16	46	09					15	
		SE		46	24						
		ME		46	37						
		FE		48	15						
281	30	ePE	3	04	36				7	38	
		ePN		04	36						
		SE		12	21						
		SN		12	07						ME, MN Out of the range of the instrument
		LE		17	22						
		LN		17	20						
		FE	4	53	34						
		FN	5	47	14						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
282	May 1	ePE	5	17	37					21	
		SE		17	58						
		ME		18	03						
		FE		19	46						
283	1	ePE	5	48	18					16	
		SE		48	34						
		ME		49	00						
		FE		51	23						
284	1	iPE	5	58	51						Intensity 4. Near the mouth of R. Nosiro.
		PN		58	51						
285	1	?SE	6	19	26						Main part was out of the range of the instruments.
		?SN		19	26						
		ME		19	39		+13				
		MN		20	03						
		FE		23	01						
		FN		21	41						
286	1	?SE	6	26	07						
		ME		26	33						
		FE		28	10						
287	1	PE	6	28	44					22	Intensity 2.
		PN		28	43						
		SE		29	06						
		SN		29	06						
		ME		29	32	4.1	+240				
		MN		29	08			+223			
288	1	?SE	6	38	32						
		ME		38	41						
		FE		41	24						
289	1	ePE	6	43	28				1	23	
		SE		44	51						
		SN		44	51						
		ME		45	01	1.4	+6				
		MN		45	09						
		FE		48	22						
		FN		47	02						
290	1	ePE	6	49	27					18	
		SE		49	45						
		ME		49	58						
		MN		50	03						
		FE		52	25						
		FN		50	44						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
291	May 1	ePE	6 55 49				16	
		eSE	56 05					
		ME	56 20					
		FE	57 30					
292	1	PE	7 03 20				25	
		ePN	03 17					
		iSE	03 46					
		iSN	03 44					
		ME	04 36	2.4	+59			
		MN	04 14	2.1		+123		
293	1	iPE	7 09 16				17	
		iPN	09 15					
		iSE	09 33					
		iSN	09 33					
		ME	09 56	2.2	+80			
		MN	09 44	1.9		−113		
		FE	15 13					
		FN	13 40					
294	1	ePE	7 16 04				22	
		ePN	16 04					
		iSE	16 27					
		SN	16 25					
		ME	16 41	1.3	+11			
		MN	16 38	1.9		+25		
		FE	19 17					
		FN	19 26					
295	1	PE	7 24 01				17	
		ePN	23 59					
		iSE	24 18					
		SN	24 16					
		ME	24 34	1.4	−12			
		MN	24 27					
		FN	27 07					
296	1	iPE	7 28 42				20	Intensity 2.
		iPN	28 40					ME Out of the range
		SE	29 01					of the instrument.
		SN	29 02					
		MN	29 12	2.4		−1375		
		FE	44 40					
297	1	eSE	7 45 58					
		ME	46 10					
		FE	47 04					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
298	May 1	eSE	7	52	40						
		ME		52	52						
		FE		53	46						
299	1	eSE	7	55	04						
		ME		55	36						
		FE		57	14						
300	1	eSE	8	00	37						
		SN		00	39						
		ME		00	50						
		MN		00	57						
		FE		02	46						
		FN		01	48						
301	1	eSE	8	03	44						
		ME		03	55						
		FE		05	02						
302	1	eSE	8	13	02						
		ME		13	12						
		FE		14	47						
303	1	ePE	8	29	58				16		
		eSE		30	14						
		ME		30	29						
		MN		30	29						
304	1	eSE	8	31	13						
		eSN		31	11						
		ME		31	45						
		MN		31	29						
		FE		33	15						
		FN		32	38						
305	1	eSE	8	44	56						
		ME		45	03						
		FE		45	53						
306	1	iPE	8	56	23				18		
		PN		56	22						
		iSE		56	42						
		SN		56	40	1.5	+41				
		ME		56	52	1.7		+78			
		MN		56	51						
		FE	9	02	03						
		FN		00	11						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
307	May 1	eSE	9	07	13						
		ME		07	32						
		MN		07	26						
		FE		09	08						
		FN		08	41						
308	1	PE	9	15	21					17	
		ePN		15	22						
		SE		15	39						
		SN		15	38						
		ME		15	53						
		MN		15	56						
		FE		19	22						
		FN		17	52						
309	1	ePE	9	22	59					19	
		SE		23	18						
		eSN		23	18						
		ME		23	28	1.0	+5				
		MN		23	21						
		FE		25	53						
		FN		26	28						
310	1	PE	9	53	44					14	
		SE		53	58						
		ME		54	04						
		FE		55	26						
311	1	ePE	9	59	07					15	
		ePN		59	09						
		SE		59	23						
		eSN		59	22						
		ME		59	41	1.3	−30				
		MN		59	56	1.5		+60			
312	1	PE	10	04	10					17	
		PN		04	09						
		iSE		04	27						
		SN		04	27						
		ME		04	50	2.4	+28				
		MN		04	57	2.0		+40			
		FE		09	47						
		FN		07	44						
313	1	eSE	10	32	19						
		ME		32	34						
		MN		32	37						
		FE		32	56						
		FN		33	10						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
314	May 1	ePE	10 33 04				22	
		eSE	33 26					
		ME	33 57					
		MN	33 38					
		FE	35 22					
		FN	34 11					
315	1	eSE	10 37 44					
		ME	37 58					
		MN	37 57					
		FE	38 57					
		FN	38 46					
316	1	ePE	10 52 55				20	
		eSE	53 15					
		ME	53 30					
		FE	54 52					
317	1	iPE	11 43 45				18	
		iPN	43 47					
		SE	44 04					
		SN	44 04					
		ME	44 17		−84			
		MN	44 20	2.3		+123		
		FN	49 22					
318	1	PE	11 49 46				17	
		ePN	49 45					
		iSE	50 03					
		iSN	50 02					
		ME	50 15		−18			
		MN	50 07	1.3		−25		
319	1	PE	11 50 58				21	
		PN	50 59					
		SE	51 19					
		SN	51 20					
		ME	52 01	2.8	−415			
		MN	52 04	2.4		+550		
		FE	12 05 43					
		FN	06 20					
320	1	ePE	12 06 23				21	
		eSE	06 44					
		ME	07 01					
		FE	08 57					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
321	May 1	PE	12	12	16					18	
		PN		12	18						
		iSE		12	34						
		iSN		12	35						
		ME		12	38	0.9	—42				
		MN		12	47	1.7		+90			
		FE		17	48						
		FN		16	15						
322	1	PE	12	18	23					21	
		ePN		18	24						
		iSE		18	44						
		SN		18	44						
		ME		19	16	1.9	—11				
		MN		18	56	2.2		—28			
		FE		23	03						
		FN		20	47						
323	1	ePE	12	23	30					12	
		SE		23	42						
		ME		23	45						
		MN		23	59						
		FE		25	27						
		FN		25	15						
324	1	SE	12	27	29						
		ME		27	37						
		FE		28	55						
325	1	eSE	12	39	43						
		ME		40	03						
		FE		41	13						
326	1	eSE	12	54	28						
		ME		54	38						
		FE		55	39						
327	1	iPE	13	01	00					19	
		ePN		00	57						
		iSE		01	18						
		iSN		01	17						
		ME		01	30		—25				
		MN		01	29	2.1		+35			
		FE		06	40						
		FN		05	29						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
328	May 1	PE	13	18	55				15		
		iSE		19	11						
		eSN		19	09						
		ME		19	49	1.7	−5				
		MN		19	29						
		FE		21	53						
		FN		20	46						
329	1	iPE	13	43	25				18		Intensity 2
		iPN		43	26						
		iSE		43	44						
		iSN		43	43						
		ME		44	34	2.7	+299				
		MN		43	55	2.7		−313			
		FE		52	54						
		FN		53	09						
330	1	ePE	13	53	24				21		
		SE		53	45						
		eSN		53	44						
		ME		53	59	?	−5				
		MN		53	53						
		FE		56	42						
		FN		55	50						
331	1	ePE	14	14	22				24		
		SE		14	46						
		SN		14	45						
		ME		15	12	2.0	−5				
		MN		15	01						
		FE		17	57						
		FN		16	10						
332	1	eSE	14	39	13						
		ME		39	24						
		FE		40	17						
333	1	ePE	15	43	27				15		
		SE		43	42						
		ME		44	29						
		MN		44	05						
		FE		48	10						
		FN		45	30						
334	1	ePE	15	55	01				26		
		eSE		55	27						
		ME		55	52						
		MN		55	55						
		FE		57	59						
		FN		56	27						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
335	May 1	ePE	16 02 53				18	
		SE	03 11					
		ME	03 18					
		FE	05 32					
336	1	PE	16 06 14				17	Intensity 3
		iPN	06 14					Main part was out of the
		?SN	06 31					range of the instruments
337	1	PE	16 18 44				16	
		ePN	18 43					
		SE	18 59					
		SN	19 01					
		ME	19 33	1.8	−63			
		MN	19 45	2.7		+80		
		FE	28 45					
		FN	29 12					
338	1	ePE	16 29 22				16	
		eSE	29 38					
		ME	29 59					
		MN	30 16					
		FE	31 12					
		FN	31 14					
339	1	ePE	16 37 50				15	
		SE	38 05					
		ME	38 13					
		FE	39 51					
340	1	iPE	17 05 37				18	
		PN	05 38					
		iSE	05 54					
		SN	05 57					
		ME	05 56	0.7	+68			
		MN	06 08	1.3		−105		
		FE	12 29					
		FN	09 48					
341	1	ePE	17 15 29				19	
		SE	15 48					
		ME	15 53					
		MN	15 51					
		FE	17 50					
		FN	16 44					

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P–S m s	Remarks
342	May 1	ePE	17 25 28				16	
		SE	25 44					
		ME	25 58	1.5	−9			
		MN	25 56					
		FE	27 52					
		FN	26 45					
343	1	iPE	17 28 06				18	
		SE	28 24					
		eSN	28 23					
		ME	28 59		+9			
		MN	28 47					
		FE	32 13					
		FN	30 49					
344	1	ePE	17 32 41				21	
		SE	33 02					
		ME	33 12					
		FE	34 59					
345	1	ePE	17 36 59				19	
		SE	37 18					
		ME	37 39					
		FE	39 10					
346	1	ePE	17 49 43				17	
		eSE	50 00					
		ME	50 20					
		FE	51 57					
347	1	eSE	18 07 20					
		ME	07 26					
		FE	08 13					
348	1	ePE	18 08 34				13	
		eSE	08 47					
		ME	09 01					
		FE	10 26					
349	1	eSE	18 12 47					
		ME	12 52					
		FE	13 29					
350	1	ePE	18 13 36				14	
		SE	13 50					
		ME	14 17					
		FE	15 37					

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
351	May 1	ePE	18 16 20				19	
		SE	16 39					
		eSN	16 40					
		ME	17 04	1.6	+11			
		MN	16 53					
		FE	18 57					
		FN	18 15					
352	1	ePE	18 19 15				21	
		SE	19 36					
		ME	20 07	2.0	−8			
		MN	19 47					
		FE	22 43					
		FN	20 53					
353	1	ePE	18 24 59				18	
		SE	25 17					
		ME	25 40					
		FE	27 11					
354	1	ePE	18 39 01				22	
		?SE	39 23					
		ME	40 22	1.7	+8			
		MN	40 19					
		FE	43 13					
		FN	42 24					
355	1	ePE	18 55 41				20	
		SE	56 01					
		ME	56 24	1.2	+6			
		FE	58 14					
356	1	ePE	19 02 40				21	
		SE	03 01					
		ME	03 18					
		FE	04 59					
357	1	ePE	19 13 21				18	
		SE	13 39					
		ME	14 00					
		MN	13 42					
		FE	15 39					
		FN	14 42					
358	1	eSE	19 17 01					
		ME	17 12					
		FE	18 32					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Mmp. AE μ	AN μ	P—S m	s	Remarks
359	May 1	eSE	19	38	32						
		ME		38	42						
		FE		39	37						
360	1	ePE	19	41	02					18	
		SE		41	20						
		ME		41	31						
		FE		43	06						
361	1	ePE	19	45	47					18	
		SE		46	05						
		ME		46	17						
		FE		47	47						
362	1	ePE	20	03	53					16	
		SE		04	09						
		ME		04	34						
		FE		06	26						
363	1	ePE	20	41	27					23	
		eSE		41	50						
		ME		42	05						
		FE		43	21						
364	1	ePE	21	28	09					25	
		eSE		28	34						
		ME		29	04						
		FE		30	27						
365	1	ePE	22	12	24					24	
		eSE		12	48						
		ME		13	05						
		FE		14	18						
366	1	ePE	22	31	02					20	
		eSE		31	22						
		ME		31	45						
		FE		33	37						
367	1	eSE	22	49	17						
		ME		49	32						
		FE		51	02						
368	1	eSE	23	08	42						
		ME		08	57						
		FE		10	17						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
369	May 1	eSE	23 36 43					
		ME	37 05					
		FE	38 05					
370	1	ePE	23 45 57				16	
		SE	46 13					
		ME	46 26					
		MN	46 22					
		FE	48 11					
		FN	47 07					
371	1	ePE	23 55 35				21	
		eSE	55 56					
		ME	56 12					
		FE	57 12					
372	1	iPE	23 59 39				20	
		iSE	59 59					
		ME	24 00 10		—47			
		FE	05 01					
373	2	ePE	0 51 43				21	
		SE,N	52 04					
		ME	53 00	3.0	—12			
		MN	52 28					
		FE	57 12					
		FN	55 12					
374	2	ePE	1 21 51				14	
		SE	22 05					
		ME	22 20					
		FN	23 44					
375	2	eSE	3 47 09					
		ME	47 17					
		FE	48 27					
376	2	ePE	3 51 23				19	
		SE	51 42					
		eSE	51 42					
		ME	51 58	1.6	—4			
		MN	52 01					
		FE	54 23					
		FN	53 34					
377	2	eSE	4 04 47					
		ME	05 06					
		FN	05 59					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
378	May 2	ePE	4	07	55					20	
		SE		08	15						
		ME		08	45	1.1	—4				
		MN		08	22						
		FE		10	21						
		FN		09	02						
379	2	eSE	4	41	31						
		ME		41	46						
		FE		43	45						
380	2	PE	6	22	00					19	
		SE		22	19						
		eSE		22	19						
		ME		22	38						
		MN		22	30						
		FE		25	48						
		FN		24	18						
381	2	ePE	6	34	07					22	
		eSE		34	29						
		ME		34	40						
		FE		36	4I						
382	2	eSE	7	04	20						
		ME		04	37						
		FE		05	25						
383	2	ePE	7	46	11					23	
		SE		46	34						
		eSN		46	32						
		ME		47	03						
		MN		46	43						
		FE		49	13						
		FN		48	17						
384	2	eSE	9	06	38						
		ME		06	55						
		FE		08	05						
385	2	eSE	9	21	26						
		ME		21	39						
		FE		23	27						
336	2	eSE	10	26	23						
		ME		26	39						
		FE		27	51						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
387	May 2	eSE	11	03	56						
		ME		04	17						
		FE		05	39						
388	2	SE	11	22	31						
		ME		22	48						
		FE		25	10						
389	2	ePE	12	18	05					18	
		eSE		18	23						
		ME		18	37						
		FE		20	28						
390	2	ePE	13	19	10					22	
		eSE		19	32						
		ME		19	39						
		FE		21	25						
391	2	ePE	14	32	14					21	
		SE		32	35						
		ME		33	01						
		MN		33	24						
		FE		35	09						
		FN		34	25						
392	2	eSE	15	29	14						
		ME		29	39						
		FE		31	16						
393	2	iPE,N	15	37	39					23	
		iSE		38	02						
		SN		38	03						
		ME		38	12	2.4	—154				
		MN		38	47	2.4		—230			
		FE		46	00						
		FN		46	31						
394	2	ePE	15	46	11					21	
		SE		46	32						
		ME		46	57						
		MN		47	19						
		FE		49	33						
		FN		50	06						
395		ePE	18	53	39					24	
		SE		54	03						
		ME		54	42						
		FE		57	34						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
396	May 2	iPE	21	39	22				16		
		ePN		39	24						
		SE		39	38						
		SN		39	41						
		ME		39	56	1.8	—18				
		MN		40	01						
		FE		44	25						
		FN		43	26						
397	2	ePE	22	58	18				23		
		eSE		58	41						
		ME		59	01						
		MN		59	39						
		FE	23	00	05						
		FN		00	23						
398	2	ePE	23	27	43				20		
		iSE		28	03						
		ME		28	12						
		MN		28	10						
		FE		29	45						
		FN		29	01						
399	3	ePE	0	53	48				22		
		iSE		54	10						
		eSN		54	09						
		ME		54	39						
		MN		54	23						
		FE		56	10						
		FN		56	27						
400	3	ePE	4	50	53				19		
		ePN		50	51						
		SE		51	11						
		SN		51	12						
		ME		51	49	1.7	—6				
		MN		51	41						
		FE		54	23						
		FN		54	48						
401	3	ePE	5	17	14				21		
		eSE		17	35						
		SN		17	33						
		ME		17	49		—5				
		MN		17	42						
		FE		19	28						
		FN		19	08						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
402	May 3	ePE	10	31	51					21	
		eSE		32	12						
		eSN		32	11						
		ME		32	37						
		MN		32	42						
		FE		34	55						
		FN		33	33						
403	3	eSE	12	29	05						
		ME		29	16						
		FE		30	22						
404	3	ePE	14	25	14					20	
		ePN		25	16						
		eSE		25	35						
		SN		25	35						
		ME		26	14	1.8	−6				
		MN		25	50						
		FE		29	20						
		FN		28	03						
405	3	ePE	14	53	06					18	
		eSE		53	24						
		eSN		53	25						
		ME		53	47	1.4	+3				
		MN		53	38						
		FE		56	09						
		FN		55	01						
406	3	ePE	16	07	08					18	
		SE		07	26						
		ME		07	34						
		FE		08	46						
407	3	ePE	16	26	15					18	
		ePN		26	15						
		eSE		26	33						
		SN		26	32						
		ME		26	55	1.6	+4				
		MN		26	51						
		FE		28	25						
		FN		28	08						
408	3	eSE	16	28	43						
		ME		28	51						
		MN		28	57						
		FE		30	26						
		FN		30	03						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
409	May 3	ePE	20	19	14					20	
		SE		19	34						
		eSN		19	34						
		ME		20	13	2.1	−5				
		MN		19	46						
		FE		23	03						
		FN		21	25						
410	3	eSE	21	05	52						
		eSN		05	53						
		ME		06	21						
		MN		06	29						
		FE		08	12						
		FN		07	44						
411	3	ePE	23	09	45					16	
		SE		10	01						
		SN		10	02						
		ME		10	27						
		MN		10	18						
		FE		12	31						
		FN		12	25						
410	3	iPE	23	56	00					18	
		iPN		56	00						
		SE		56	18						
		SN		56	18						
		ME		56	43	2.3	+86				
		MN		56	29	2.3		−128			
		FE	24	06	47						
		FN		05	47						
413	4	eSE	0	48	07						
		ME		48	20						
		FE		49	30						
414	4	eSE	1	39	24						
		ME		39	34						
		FE		41	18						
415	4	eSE	3	12	55						
		ME		13	08						
		FE		14	28						
416	4	ePE	4	32	43					36	
		SE		33	19						
		ME		34	08	1.3	+5				
		FE		36	35						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P–S m s	Remarks
417	May 4	SE	12 14 08					
		ME	14 19					
		FE	15 11					
418	4	PE	15 15 26				20	
		PN	15 26					
		iSE	15 46					
		iSN	15 46					
		ME	15 49	0.5	+25			
		MN	15 56	1.7		−43		
		FE	19 21					
		FN	18 56					
419	4	ePE	16 20 36				22	
		eSE	20 58					
		ME	21 08					
		FE	22 30					
420	5	ePE	2 30 15				42	
		SE	30 57					
		eSN	30 55					
		ME	31 13					
		MN	31 22					
		FE	34 27					
		FN	34 06					
421	5	ePE	3 59 13				23	
		SE	59 36					
		eSN	59 36					
		ME	59 40					
		MN	59 46					
		FE	4 01 43					
		FN	00 39					
422	5	ePE	6 48 28				18	
		eSE	48 46					
		eSN	48 46					
		ME	48 58					
		MN	48 59					
		FE	50 48					
		FN	50 17					
423	5	eSE	12 21 53					
		ME	22 12					
		MN	22 33					
		FE	23 56					
		FN	23 24					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
424	May 5	ePE	14	50	07					18	
		iSE		50	25						
		eSN		50	23						
		ME		51	06	1.7	+5				
		MN		50	39						
		FE		53	15						
		FN		52	55						
425	5	ePE	20	43	20					26	
		iSE		43	46						
		eSN		43	47						
		ME		43	52						
		MN		43	56						
		FE		45	33						
		FN		44	52						
426	6	?PE	3	25	27				2	10	
		?SE		27	37						
		?SN		27	38						
		ME		28	01						
		MN		28	00						
		FE		31	47						
		FN		36	33						
427	6	eSE	7	25	51						
		ME		25	59						
		FE		27	00						
428	6	eSE	7	33	36						
		ME		33	48						
		FE		35	13						
429	6	ePE	10	54	29				2	02	
		SE		56	31						
		eSN		56	28						
		ME		56	58	2.4	−6				
		FE	11	04	08						
		FN		07	34						
430	6	eSE	12	07	31						
		ME		07	44						
		FE		08	33						
431	6	ePE	13	59	29					20	
		SE		59	49						
		eSN		59	47						
		ME	14	00	09						
		MN		00	06						
		FE		01	55						
		FN		01	40						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
432	May 6	eSE	17	06	28						
		ME		06	51						
		MN		07	20						
		FE		09	06						
		FN		09	43						
433	6	ePE	18	27	38					18	
		SE		27	56						
		eSN		27	56						
		ME		28	23						
		MN		28	12						
		FE		30	15						
		FN		29	30						
434	7	ePE	7	12	58				1	41	
		eSE		14	39						
		eSN		14	39						
		ME		15	16						
		MN		15	18						
		FE		21	34						
		FN		22	09						
435	7	PE	14	17	11					27	
		SE		17	38						
		ME		17	57						
		FE		20	47						
436	8	ePE	3	46	15					16	
		SE		46	31						
		ME		46	45						
		MN		46	45						
		FE		50	56						
		FN		49	19						
437	8	PE	8	05	37					40	
		PN		05	37						
		iSE		06	17						
		SN		06	17						
		ME		07	09	4.5	—66				
		MN		07	01	2.9		—70			
		FE		16	38						
		FN		16	00						
438	8	ePE	20	34	11					20	
		SE		34	31						
		eSN		34	31						
		ME		35	09						
		MN		34	42	2.0	—6				
		FE		38	33						
		FN		36	36						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
439	May 9	?SE	19 40 10					
		ME	40 26					
		FE	42 17					
440	10	eSE	4 12 21					
		ME	12 26					
		FE	13 23					
441	10	ePE	5 29 29				1 10	
		eSE	30 39					
		ME	31 19					
		FE	36 27					
442	10	?PE	7 48 55				6 40	
		?SE	55 35					
		FE	8 10 30					
443	10	ePE	16 29 15				41	
		SE	29 56					
		eSN	29 56					
		ME	30 24	1.2	−7			
		MN	30 12					
		FE	34 33					
		FN	34 47					
444	11	PE	4 52 24				18	
		SE	52 42					
		ME	52 51					
		FE	53 45					
445	12	eSE	8 44 46					
		ME	44 57					
		FE	47 20					
446	12	iPE	14 05 54				44	
		iPN	05 55					
		iSE	06 39					
		iSN	06 38					
		ME	07 06	2.1	+62			
		MN	06 49	1.6		#83		
		FE	13 09					
		FN	12 40					
447	13	ePE	19 55 45				1 14	
		SE	56 59					
		eSN	56 59					
		ME	57 44	2.0	−5			
		MN	57 26					
		FE	20 02 37					
		FN	02 05					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
448	May 13	ePE	20	27	42					18	
		iSE		28	00						
		eSN		28	03						
		ME		28	12	1.2	—5				
		MN		28	09						
		FE		31	17						
		FN		29	11						
449	13	eSE	21	44	14						
		ME		44	31						
		FE		47	25						
450	14	ePE	17	54	09.					31	
		eSE		54	40						
		eSN		54	40						
		ME		55	02						
		MN		54	53						
		FE		59	01						
		FN		57	05						
451	14	eSE	18	12	11						
		eSN		12	08						
		ME		12	16		+2				
		MN		12	20						
		FE		14	04						
		FN		14	47						
452	15	PE	18	26	02					19	
		SE		26	21						
		ME		26	38						
		MN		26	32						
		FE		27	36						
		FN		27	34						
453	16	ePE	7	25	17					4 09	
		ePN		25	15						
		SE		29	26						
		SN		29	25						
		ME		30	13						
		MN		29	39						
		FE		39	32						
		FN		43	35						
454	16	?SE	14	25	23						
		ME		25	32						
		FE		28	14						

No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
455	May 16	ePE	15	19	00					19	
		SE		19	19						
		ME		19	29						
		FE		20	44						
456	16	PE	22	56	36					37	
		PN		56	37						
		SE		57	14						
		SN		57	13						
		ME		57	29	1.4	+5				
		MN		57	21						
		FE	23	01	09						
		FN		00	03						
457	17	?SE	0	25	30						
		ME		25	59						
		MN		26	12						
		FE		29	15						
		FN		27	30						
458	17	eSE	3	44	02						
		ME		44	09						
		FE		45	34						
459	17	ePE	5	20	28					20	
		ePN		20	28						
		SE		20	48						
		SN		20	49						
		ME		20	59	1.4	−10				
		MN		21	01	2.0		−23			
		FE		24	47						
		FN		23	52						
469	17	ePE	12	30	46					16	
		SE		31	03						
		ME		31	12						
		MN		31	24						
		FE		32	35						
		FN		33	20						
461	17	?SE	15	18	30						
		MN		18	44						
		FE		22	53						
		FN		21	58						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
462	May 17	iPE	18 34 21				3 15	
		iPN	34 23					
		iSE	37 36					
		iSN	37 39					
		ME	37 47	4.2	−114			
		MN	40 51	12.9		+138		
		FE	19 23 28					
		FN	20 54					
463	17	eSE	21 16 02					
		ME	16 08					
		MN	17 27					
		FE	20 03					
		FN	19 11					
464	18	ePE	9 32 26				25	
		iSE	32 51					
		eSN	32 50					
		ME	33 17					
		MN	33 04					
		FE	35 35					
		FN	35 41					
465	18	PE	21 04 30				18	
		PN	04 27					
		iSE	04 48					
		SN	04 47					
		ME	05 07	1.9	+39			
		MN	05 05	1.7		−50		
		FE	12 16					
		FN	09 36					
466	18	ePE	23 39 23				29	
		eSE	39 52					
		eSN	39 55					
		ME	40 03					
		MN	40 25					
		FE	42 43					
		FN	42 10					
467	19	ePE	11 55 18				18	
		eSE	55 35					
		eSN	55 36					
		ME	55 50					
		MN	56 06					
		FE	58 04					
		FN	58 05					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
468	May 19	ePE	12	11	30					50	
		SE		12	20						
		eSN		12	19						
		ME		12	31						
		MN		12	47						
		FE		15	39						
		FN		15	14						
469	20	ePE	21	39	45					27	
		SE		40	12						
		eSN		40	13						
		ME		40	30	1.5	+5				
		MN		40	31						
		FE		43	27						
		FN		42	31						
470	21	ePE	14	01	22					42	
		SE		02	04						
		eSN		02	00						
		ME		02	35	2.7	—25				
		FE		10	10						
		FN		11	04						
471	21	ePE	15	12	44					21	
		eSE		13	06						
		eSN		13	03						
		ME		13	27		—3				
		MN		13	22						
		FE		16	07						
		FN		15	13						
472	21	?SE	20	32	20						
		ME		33	23	2.4	+6				
		FE		36	27						
473	24	ePE	13	15	15					23	
		SE		15	37						
		eSE		15	37						
		ME		15	54		—5				
		MN		15	59						
		FE		18	10						
		FN		16	54						
474	25	?SE	21	37	21						
		ME		37	29						
		MN		37	26						
		FE		39	14						
		FN		39	09						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
475	May 25	?PE	22	00	39					39	
		SE		01	17						
		eSN		01	19						
		ME		01	36						
		MN		01	46						
		FE		03	30						
		FN		03	28						
476	26	ePE	6	54	30					10	
		SE		54	41						
		eSN		54	39						
		ME		54	43						
		MN		54	43						
		FE		56	06						
		FN		56	27						
477	26	?PE	9	49	35				4	04	
		?PN		49	39						
		?SE		53	37						
		?SN		53	44						
		FE	10	05	27						
		FN		05	19						
478	26	eSE	11	51	44						
		eSN		51	42						
		ME		51	53						
		MN		51	46						
		FE		54	01						
		FN		52	48						
779	26	eSE	12	20	16					20	
		SE		21	36						
		SN		21	38						
		ME		22	01	1.5	+10				
		MN		21	54	1.5		+13			
		FE		26	07						
		FN		24	11						
480	26	?SE	17	58	26						
		ME		58	59						
		MN		59	40						
		FE	18	01	39						
		FN		02	39						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
481	May 26	PE	18	02	58					39	
		ePN		03	00						
		SE		03	38						
		SN		03	37						
		ME		03	53	1.8	—25				
		MN		04	04	1.7		—43			
		FE		10	31						
		FN		12	23						
482	26	ePE	20	57	05					58	
		ePN		57	07						
		SE		58	03						
		SN		58	05						
		ME		58	11	2.2	—10				
		MN		58	16						
		FE	21	02	23						
		FN		01	13						
483	27	ePE,N	3	53	34				6	12	
		SE		59	48						
		SN		59	46						
		FE	4	10	59						
		FN		17	25						
484	27	eSE	14	21	29						
		ME		21	37						
		FE		23	03						
485	27	ePE	23	00	29					34	
		SE		01	03						
		eSN		01	04						
		ME		01	21						
		MN		01	40						
		FE		04	18						
		FN		04	12						
486	27	ePE	23	05	02					26	
		SE		05	38						
		eSN		05	39						
		ME		06	06						
		MN		06	30						
		FE		09	58						
		FN		09	29						
487	29	SE	0	25	46						
		eSN		25	44						
		ME		25	50						
		MN		26	01						
		FE		30	23						
		FN		28	02						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
488	May 30	ePE	17	15	15				2	52	
		ePN		15	17						
		?SE		18	07						
		?SN		18	03						
		FE		23	17						
		FN		25	29						
489	31	ePE,N	10	01	50					34	
		SE		02	24						
		eSN		02	23						
		ME		03	08	2.4	+9				
		MN		02	52	2.0		—18			
		FE		06	56						
		FN		05	26						
490	31	PE	11	57	01					11	
		SE		57	12						
		eSN		57	12						
		ME		57	16		—4				
		MN		57	24						
		FE		59	07						
		FN		59	01						
491	31	PE	18	07	16				3	42	
		ePN		07	13						
		SE		10	58						
		eSN		11	01						
		ME		11	18						
		FE		17	13						
		FN		16	53						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P–S m	s	Remarks
492	June 1	ePE	0	25	28					34	
		eSE		26	02						
		?SN		26	01						
		ME		26	20						
		MN		26	22						
		FE		28	36						
		FN		28	29						
493	1	eSE	4	48	37						
		SN		48	38						
		ME		48	49						
		MN		48	44						
		FE		50	11						
		FN		50	07						
494	1	eSE	5	42	13						
		eSE		42	14						
		ME		42	27						
		MN		42	32						
		FE		44	24						
		FN		45	02						
495	1	ePE	11	42	06					28	
		ePN		42	05						
		SE		42	34						
		SN		42	33						
		ME		42	37	1.3	−45				
		MN		42	59	1.7		+48			
		FE		48	03						
		FN		46	34						
496	1	ePE	17	19	46					27	
		SE		20	13						
		ME		20	29						
		MN		20	30						
		FE		23	51						
		FN		21	59						
497	2	ePE,N	3	40	24				5	34	
		eSE		45	58						
		eSN		46	01						
		FE	4	07	12						
		FN	3	59	35						
498	3	eSE	9	18	13						
		ME		18	26						
		MN		18	23						
		FE		20	22						
		FN		21	33						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
499	June 3	eSE	15	22	03						
		ME		22	15						
		FE		24	09						
500	4	eSE	22	44	30						
		ME		44	52						
		MN		44	50						
		FE		47	10						
		FN		46	18						
501	5	ePE	7	51	30					18	
		eSE		51	48						
		eSN		51	49						
		ME		52	14						
		MN		52	08						
		FE		54	26						
		FN		54	05						
502	5	ePE	13	49	32					15	
		eSE		49	47						
		ME		49	56						
		MN		50	06						
		FE		51	55						
		FN		51	31						
503	5	ePE,N	19	49	02					17	
		eSE,N		49	19						
		ME		49	42						
		MN		49	32	1.5	—8				
		FE		52	30						
		FN		51	23						
504	5	ePE	20	30	12					23	
		SE		30	35						
		eSN		30	36						
		ME		30	41	1.3	—6				
		MN		31	04						
		FE		33	24						
		FN		33	21						
505	6	ePE,N	1	42	16					18	
		SE		42	34						
		eSN		42	37						
		ME		43	08	1.6	—8				
		MN		42	49	1.7		+18			
		FE		46	32						
		FN		45	18						

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No.	Date	Phase	Time G.C.T h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P—S m s	Remarks
506	June 6	ePE	16 58 49				29	
		SE	59 18					
		eSN	59 19					
		ME	59 21		—5			
		MN	59 23					
		FE	17 01 54					
		FN	00 54					
507	6	eSE	19 38 11					
		ME	38 18					
		FE	39 14					
508	6	ePE	20 53 45				50	
		iSE	54 35					
		eSN	54 36					
		ME	55 05	2.8	—10			
		MN	55 08					
		FE	21 01 13					
		FN	20 59 02					
509	7	ePE	5 52 55				25	
		SE	53 20					
		eSN	53 21					
		ME	53 33					
		MN	53 50					
		FE	56 00					
		FN	56 18					
510	7	eSE	7 15 51					
		ME	16 02					
		MN	15 53					
		FE	17 04					
		FN	17 22					
511	8	eSE	0 36 19					
		ME	36 57					
		MN	37 05					
		FE	40 09					
		FN	41 09					
512	8	eSE	15 32 15					
		eSN	32 17					
		ME	32 47					
		MN	33 00					
		FE	36 56					
		FN	35 59					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
513	June 8	PE	20	57	51				8	55	
		ePN		57	53						
		?SE	21	06	46						
		?SN		06	47						
		FE		25	06						
		FN		15	27						
514	8	ME	21	27	08						
		MN		26	56						
		FE		30	29						
		FN		30	19						
515	9	ePE	3	16	49					34	
		eSN		17	23						
		eSE		17	26						
		ME		18	05	1.9	−4				
		MN		18	06						
		FE		22	30						
		FN		21	28						
516	10	eSE	11	11	09						
		ME		11	19						
		MN		11	21						
		FE		13	25						
		FN		13	29						
517	10	ePE	14	59	22					13	
		eSE		59	35						
		ME		59	52						
		MN		59	41						
		FE	15	01	40						
		FN		01	35						
518	11	ePE	6	21	30					21	
		ePN		21	31						
		SE		21	51						
		SN		21	52						
		ME		21	57		−14				
		MN		21	58						
		FE		26	25						
		FN		24	10						
519	11	ePE	11	52	03					12	
		SE		52	15						
		ME		52	26						
		MN		52	27						
		FE		54	02						
		FN		54	39						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
520	June 11	eSE	18	01	56						
		ME		02	08						
		FE		03	49						
521	11	ePE	19	47	01					17	
		eSE		47	18						
		ME		47	53	1.2	—3				
		MN		47	40						
		FE		50	21						
		FN		49	36						
522	12	ePE	23	39	49					21	
		eSE		40	10						
		eSN		40	07						
		ME		40	22						
		MN		40	30						
		FE		42	47						
		FN		43	18						
523	13	eSE	0	38	08						
		ME		38	12	1.0	+3				
		MN		39	17						
		FE		40	05						
		FN		41	06						
524	13	ePE	1	31	31					28	
		SE		31	59						
		ME		32	13	1.0	+3				
		MN		32	19						
		FE		35	02						
		FN		35	39						
525	13	ePE,N	20	47	36				6	01	
		iSE		53	38						
		iSN		53	37						
		ME		53	53	2.8	+5				
		MN		53	49						
		FE	21	04	50						
		FN		04	18						
526	14	ePE	11	10	58					20	
		SE		11	18						
		ME		11	28						
		FE		13	05						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
527	June 15	ePE	14	18	16					18	
		SE		18	34						
		SN		18	35						
		ME		18	43						
		MN		18	41						
		FE		20	16						
		FN		20	11						
528	15	ePE	17	29	37					12	
		SE		29	49						
		ME		30	10						
		MN		30	17						
		FE		32	08						
		FN		32	32						
529	15	ePE	22	44	15					21	
		SE		44	36						
		ME		44	42						
		MN		44	40						
		FE		46	43						
		FN		46	10						
530	15	ePE	22	55	38					16	
		ePN		55	40						
		iSE		55	54						
		SN		55	55						
		ME		56	09	1.1	+3				
		MN		56	14						
		FE		58	10						
		FN		58	38						
531	16	?PE	5	09	11					9 38	
		?PN		09	12						
		?SE		18	49						
		?SN		18	44						
		FE		31	15						
		FN		31	56						
532	17	ePE	8	27	08					21	
		SE		27	29						
		ME		27	46						
		MN		27	44						
		FE		29	42						
		FN		30	21						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
533	June 17	ePE	8	49	29				16		
		SE		49	45						
		ME		49	55						
		MN		50	42						
		FE		52	07						
		FN		52	39						
534	17	eSE	11	13	05						
		ME		13	26						
		FE		15	40						
535	17	ePE	16	38	18				32		
		SE		38	50						
		ME		39	09						
		FE		41	28						
536	17	iPE	18	40	27				19		Intensity 1
		iPN		40	28						
		iSE		40	46						
		iSN		40	47						
		ME		40	55		+97				
		MN		41	14	2.4		+145			
		FE		48	14						
		FN		46	27						
537	17	ePE	19	07	51				38		
		SE		08	29						
		eSN		08	29						
		ME		09	12	2.5	— 6				
		MN		08	59						
		FE		15	06						
		FN		11	38						
538	18	iPE	0	41	07				14		Intensity 2
		PN		41	07						
		iSE		41	21						
		SN		41	21						
		MN		41	27	0.8		+ 85			ME Out of the range of the instrument
		FE		46	08						
		FN		45	08						
539	18	ME	5	22	24						
		FE		27	41						
540	18	?PE	12	28	40				2	46	
		?SE		31	26						
		ME		31	37						
		FE		35	35						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
541	June 19	eSE	12	39	17						
		ME		39	21						
		MN		39	22						
		FE		40	31						
		FN		40	39						
542	20	PE	11	31	40					21	
		ePN		31	39						
		iSE		32	01						
		iSN		32	02						
		ME		32	02	0.9	+8				
		MN		32	07	1.2		—13			
		FE		36	11						
		FN		34	45						
543	21	eSE	0	45	19						
		ME		45	40						
		MN		45	31						
		FE		47	17						
		FN		46	20						
544	21	eSE	3	41	00						
		ME		41	23						
		FE		42	57						
545	21	eSE	4	15	07						
		ME		15	22						
		FE		16	37						
546	21	eSE	18	44	00						
		ME		44	08						
		MN		44	22						
		FE		45	38						
		FN		46	32						
547	21	ePE	21	09	36					27	
		eSE		10	03						
		eSN		10	07						
		ME		10	23						
		MN		10	23						
		FE		13	05						
		FN		12	39						
548	22	eSE	8	41	27						
		ME		41	44						
		FE		42	45						

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No.	Date	Phase	Time G.C.T *k* *m* *s*	Period *s*	Max. Amp. AE μ	Max. Amp. AN μ	P—S *m* *s*	Remarks
549	June 22	PE	17 19 27				31	
		SE	19 58					
		ME	20 09	0.6	—13			
		FE	25 17					
550	22	ePE	18 10 29				17	
		SE	10 46					
		ME	10 51					
		FE	12 25					
551	22	ePE	19 44 09				22	
		SE	44 31					
		ME	44 39					
		FE	46 33					
552	24	ePE	17 25 09				25	
		SE	25 34					
		eSN	25 35					
		ME	25 41					
		MN	25 45					
		FE	28 I7					
		FN	28 05					
553	25	ePE	20 15 12				45	
		eSE	15 57					
		eSN	15 55					
		ME	16 45	2.1	—6			
		MN	16 20	2.3		+15		
		FE	21 23					
		FN	21 18					
554	26	ePE	1 05 22				34	
		ePN	05 21					
		SE,N	05 56					
		ME	06 21	1.0	+10			
		MN	06 05	1.8		—23		
		FE	10 53					
		FN	09 13					
555	26	ePE	13 23 16				43	
		ePN	23 17					
		SE	24 00					
		SN	23 58					
		ME	24 43	2.8	+74			
		MN	24 32	1.8		+80		
		FE	33 01					
		FN	30 20					

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
556	June 26	ePE	22	43	50				38		
		SE		44	28						
		SN		44	25						
		ME		44	43						
		MN		44	43						
		FE		47	38						
		FN		47	20						
557	27	SE	14	13	56						
		ME		14	14						
		MN		14	21						
		FE		16	30						
		FN		16	08						
558	27	ePE	23	11	10				5	21	
		ePN		11	06						
		eSE		16	33						
		eSN		16	25						
		?LE		21	31						
		?LN		20	58						
		FE		32	36						
		FN		36	01						
559	28	ePE	1	33	38				36		
		eSE		34	14						
		ME		34	36						
		MN		34	21						
		FE		37	38						
		FN		36	17						
560	28	PE	4	37	16				34		
		PN		37	14						
		SE		37	48						
		SN		37	47						
		ME		39	28	2.8	−25				
		MN		38	49	2.4		+35			
		FE		47	02						
		FN		43	26						
561	28	ePE	17	21	20						
		eSE		21	58				38		
		ME		22	28						
		FE		25	15						

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No.	Date	Phase	Time G.C.T h	m	s	Period s	Max. Amp. AE μ	AN μ	P—S m	s	Remarks
562	June 28	eSE	19	15	07						
		ME		15	17						
		MN		15	18						
		FE		17	19						
		FN		17	20						
563	29	PE	21	00	00					27	
		ePN	20	59	59						
		SE	21	00	27						
		SN		00	26						
		ME		00	39	0.7	—17				
		MN		00	54	1.5		—35			
		FE		06	03						
		FN		04	36						
564	30	ePE	2	47	08					37	
		SE		47	45						
		eSN		47	44						
		ME		48	27	2.0	—8				
		MN		48	36						
		FE		51	21						
		FN		51	20						

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昭和十四年十一月十九日 印刷
昭和十四年十一月廿三日 發行

緯度觀測所

岩手縣水澤町

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International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

July

Latitude, 39° 8′ 4″ N.
Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_0 s	$\frac{r}{T_0^2}$
E W	45.0	100	16	0.043
N S	17.6	20	36	0.004

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
565	July 2	PE	8 30 01				16	
		ePN	29 59					
		SE	30 17					
		SN	30 15					
		ME	30 42	1.2	– 6			
		MN	30 34					
		FE	33 03					
		FN	32 18					
566	3	ePE	5 38 38				23	
		SE	39 01					
		ME	39 16					
		MN	39 18					
		FE	41 07					
		FN	41 01					
567	3	ePE	7 39 18				1 32	
		SE	40 50					
		eSN	40 52					
		ME	40 56	1.0	– 9			
		MN	41 13					
		FE	46 25					
		FN	44 23					
568	3	PE	11 52 16				16	
		SE,N	52 32					
		ME	52 46	0.9	– 5			
		MN	52 38					
		FE	55 14					
		FN	55 23					
569	4	ePE,N	18 45 34				31	
		?SE	46 06					
		?SN	46 04					
		ME	46 29	1.6	– 5			
		MN	46 29					
		FE	51 23					
		FN	49 42					
570	5	PE	4 25 47				26	
		SE	26 13					
		ME	26 23					
		MN	26 25					
		FE	28 34					
		FN	27 16					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
571	July 5	ePE	22 51 21				8 27	
		ePN	51 24					
		eSE	59 48					
		SN	59 49					
		ME	59 54	3.0	+ 10			
		FE	23 22 31					
		FN	22 35					
572	6	?SE,N	7 49 11					
		ME	49 16					
		MN	49 46					
		FE	54 41					
		FN	53 20					
573	8	ePE	17 15 51				23	
		iSE	16 14					
		SN	16 15					
		ME	16 27		+ 4			
		MN	16 19					
		FE	18 31					
		FN	18 58					
574	8	ePE	19 59 22				30	
		SE	59 52					
		eSN	59 52					
		ME	59 55					
		MN	20 00 35					
		FE	02 37					
		FN	03 22					
575	10	ePE	5 22 41				34	
		eSE	23 15					
		eSN	23 13					
		ME	23 44					
		MN	23 58					
		FE	26 37					
		FN	25 52					
576	12	PE	20 10 02				1 09	
		ePN	10 02					
		iSE	11 11					
		iSN	11 12					
		ME	11 30	1.0	+ 46			
		MN	12 17	2.4		− 53		
		FE	21 41					
		FN	22 26					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
577	July 12	PE	21 01 02				27	
		ePN	01 02					
		iSE,N	01 29					
		ME	01 33	1.2	– 23			
		MN	01 50	1.2		– 20		
		FE	06 41					
		FN	05 24					
578	12	ePE	2 13 06 09				6 09	
		ePN	06 07					
		eSE	12 19					
		eSN	12 14					
		ME	16 12					
		MN	16 03					
		FE	35 38					
		FN	40 29					
579	13	ePE	5 50 49				50	
		eSE	51 39					
		ME	51 55					
		FE	54 30					
580	13	ePE	8 54 25				23	
		SE	54 48					
		eSN	54 49					
		ME	55 17					
		MN	55 11					
		FE	58 35					
		FN	58 04					
581	13	ePE	17 08 12				2 08	
		ePN	08 14					
		eSE	10 20					
		eSN	10 24					
		ME	10 57					
		MN	12 11					
		FE	22 21					
		FN	41 13					
582	14	ePE	8 36 57				4 20	
		ePN	36 54					
		eSE,N	41 16					
		ME	41 56					
		MN	41 32					
		FE	47 40					
		FN	47 36					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. ΔE μ	Max. Amp. ΔN μ	P – S m s	Remarks
583	July 14	ePE	12 46 41				35	
		ePN	46 44					
		SE	47 17					
		eSN	47 17					
		ME	48 12	2.0	+ 10			
		MN	47 52					
		FE	52 27					
		FN	51 22					
584	15	ePE	22 48 55				26	
		eSE	49 21					
		ME	49 35					
		MN	49 36					
		FE	52 14					
		FN	51 55					
585	18	ePE	7 40 21				36	
		SE	40 57					
		ME	41 56					
		MN	41 27					
		FE	44 53					
		FN	43 29					
586	18	PE	9 40 59				44	
		ePN	40 58					
		SE	41 42					
		SN	41 43					
		ME	41 53	1.5	– 24			
		MN	42 04	1.7		– 43		
		FE	48 25					
		FN	47 19					
587	19	ePE	10 06 50				28	
		eSE,N	07 18					
		ME	07 34					
		MN	07 30					
		FE	09 43					
		FN	08 55					
588	19	ePE	20 19 42				22	
		ePN	19 45					
		iSE	20 05					
		iSN	20 06					
		ME	20 13		– 18			
		MN	20 16					
		FE	25 13					
		FN	22 25					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
589	July 20	ePE	2 33 21				8 28	
		ePN	33 20					
		eSE	41 49					
		eSN	41 48					
		FE	49 44					
		FN	50 23					
590	20	eSE	16 11 37					
		eSN	11 36					
		ME	11 58					
		MN	11 49					
		FE	13 32					
		FN	12 55					
591	21	ePE	2 56 50				22	
		eSE	57 12					
		eSN	57 13					
		ME	57 50					
		MN	57 23					
		FE	3 00 23					
		FN	00 25					
592	21	ePE	19 45 51				29	
		SE	46 20					
		SN	46 21					
		ME	46 29	?	+ 4			
		MN	46 35					
		FE	48 41					
		FN	48 15					
593	21	ePE	21 34 27				39	
		SE	35 06					
		eSN	35 05					
		ME	35 54	2.2	+ 5			
		MN	35 33					
		FE	39 42					
		FN	38 18					
594	23	ePE	6 42 38				27	
		SE	43 03					
		ME	43 15					
		MN	43 13					
		FE	44 56					
		FN	44 45					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
595	July 26	SE	10 11 03					
		ME	11 08					
		FE	11 46					
596	26	ePE	21 11 05				26	
		SE	11 31					
		eSN	11 31					
		ME	11 40	0.7	− 4			
		MN	12 01					
		FE	14 46					
		FN	14 20					
597	26	ePE	22 56 39				27	
		SE	57 06					
		ME	57 10					
		MN	57 20					
		FE	59 55					
		FN	59 48					
598	27	PE	5 11 33				1 09	
		SE	12 42					
		SN	12 41					
		ME	13 12	2.4	− 10			
		MN	13 33					
		FE	17 51					
		FN	20 59					
599	27	PE	23 28 38				1 02	
		PN	28 39					
		SE	29 40					
		SN	29 42					
		ME	29 54	2.2	+ 49			
		MN	30 03	2.4		− 70		
		FE	36 55					
		FN	36 38					
600	28	iPE	1 06 58				22	Intensity 1
		PN	06 58					
		iSE	07 19					
		SN	07 21					
		ME	07 37	1.9	+120			
		MN	07 45	1.9		+215		
		FE	16 49					
		FN	16 28					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
601	July 28	iPE	5 21 51				20	Intensity 1
		iPN	21 54					
		iSE	22 11					
		SN	22 13					
		ME	22 56	2.4	+138			
		MN	22 37	2.0		−158		
		FE	31 19					
		FN	31 41					
602	28	ePE	21 14 21				27	
		SE	14 48					
		eSN	14 47					
		ME	15 05					
		MN	15 09					
		FE	17 40					
		FN	17 31					
603	28	ePE	21 52 37				16	
		SE	52 53					
		ME	53 00					
		MN	53 07					
		FE	54 08					
		FN	55 26					
604	29	ePE	0 13 47				40	
		SE	14 27					
		ME	14 44					
		FE	17 55					
605	29	ePE	5 10 38				16	Intensity 1
		ePN	10 36					
		iSE	10 54					
		iSN	10 52					
		ME	11 01	?	± 76			
		MN	10 55	?		+ 80		
		FE	16 35					
		FN	14 49					
606	30	ePE	12 56 23				34	
		ePN	56 22					
		iSE	56 57					
		SN	56 57					
		ME	57 21	2.0	− 15			
		MN	57 22	2.4		− 25		
		FE	13 01 38					
		FN	01 17					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
607	July 30	ePE	23 35 03				30	
		SE	35 33					
		ME	36 13					
		MN	36 47					
		FE	39 14					
		FN	39 47					
608	31	PE	0 41 23				21	
		SE	41 44					
		eSN	41 44					
		ME	41 46					
		MN	41 54					
		FE	44 14					
		FN	43 46					
609	31	ePE	9 38 46				22	
		SE	39 08					
		ME	39 15					
		FE	40 29					
610	31	eSE	11 11 43					
		ME	11 56					
		FE	13 02					
611	31	ePE	11 35 33				20	
		SE	35 53					
		ME	36 00					
		FE	36 56					
612	31	ePE	12 02 23				17	
		SE	02 40					
		ME	02 48					
		FE	03 47					
613	31	SE	15 52 29					
		ME	52 42					
		MN	52 40					
		FE	53 44					
614	31	ePE	19 10 59				21	
		SE	11 20					
		ME	11 38					
		FE	13 25					

International Seismological Centre

緯度觀測所

岩手縣水澤町表小路十二番地
印刷人　佐々木正藏
岩手縣水澤町裏町四番地
印刷所　水澤印刷株式會社

岩手縣水澤町

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Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_o s	$\frac{r}{T_o^2}$
E W	45.0	100	16	0.050
N S	17.6	20	36	0.005

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
615	Aug. 1	eSE	4 10 45					
		ME	11 04					
		MN	10 57					
		FE	12 38					
		FN	12 56					
616	1	ePE	15 59 36				2 41	
		ePN	59 35					
		eSE	16 02 15					
		eSN	02 19					
		ME	02 38					
		MN	02 50					
		FE	06 51					
		FN	06 33					
617	2	PE	14 18 38				20	
		ePN	18 35					
		SE,N	18 57					
		ME	19 04	1.0	+ 10			
		MN	19 08	0.7		− 13		
		FE	23 34					
		FN	21 50					
618	3	PE	6 57 11				59	
		ePN	57 13					
		SE	58 10					
		SN	58 11					
		ME	58 29	1.0	+ 3			
		MN	59 10					
		FE	7 05 29					
		FN	04 26					
619	4	ePE	3 16 22				41	
		SE	17 03					
		SN	17 05					
		ME	17 31					
		MN	17 17					
		FE	22 29					
		FN	18 48					
620	4	ePE	7 50 46				22	
		SE	51 08					
		SN	51 07					
		ME	51 14					
		MN	51 17					
		FE	53 22					
		FN	51 58					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
621	Aug. 5	PE	1 32 20				16	
		ePN	32 22					
		SE	32 36					
		SN	32 37					
		ME	32 47	1.1	− 9			
		MN	32 43					
		FE	35 08					
		FN	34 21					
622	7	ePE	2 28 37				25	
		SE	29 02					
		ME	29 21					
		FE	31 38					
623	7	ePE	10 51 21				16	
		SE	51 37					
		SN	51 38					
		ME	51 44					
		MN	51 45					
		FE	53 36					
		FN	53 15					
624	7	eSE	12 55 31					
		ME	55 38					
		MN	55 37					
		FE	56 42					
		FN	56 54					
625	7	eSE	18 51 08					
		ME	51 20					
		MN	51 22					
		FE	52 44					
		FN	52 52					
626	7	PE	20 44 35				26	
		PN	44 34					
		SE,N	45 01					
		ME	45 08	1.6	− 6			
		MN	45 08	~~1.6~~	− ~~6~~			
		FE	48 40					
		FN	47 47					
627	8	PE	0 45 58				25	
		SE	46 23					
		ME	46 57	1.5	+ 5			
		MN	46 47					
		FE	48 20					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
628	Aug. 8	PE	0 48 27				32	
		ePN	48 26					
		SE	48 59					
		SN	48 59					
		ME	49 56	2.0	− 26			
		MN	49 21	1.8		− 40		
		FE	54 55					
		FN	54 32					
629	8	PE	7 58 01				46	
		PN	57 59					
		SE	58 46					
		SN	58 46					
		ME	58 55	2.2	+ 10			
		FE	8 01 51					
		FN	01 17					
630	10	PE	5 18 10				14	
		eSE	18 24					
		eSN	18 22					
		ME	18 34					
		MN	18 25					
		FE	20 01					
		FN	19 25					
631	12	iPE	2 17 22				7 59	
		iPN	17 19					
		iSE	25 21					
		eSN	25 20					
		?LE	31 35					
		ME	17 54	2.2	+ 15			
		MN	17 56	2.0		+ 25		
		FE	46 47					
		FN	49 35					
632	12	ePE	6 45 10				21	
		eSE	45 31					
		ME	45 49					
		MN	45 45					
		FE	47 52					
		FN	47 27					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
633	Aug. 12	PE	9 52 12				1 16	
		ePN	52 10					
		iSE	53 48					
		SN	53 48					
		ME	54 39	3.0	+ 41			
		MN	54 01	2.1		− 55		
		FE	10 13 21					
		FN	27 28					
634	12	ePE	15 34 58				19	
		eSE	35 17					
		ME	35 42					
		MN	36 05					
		FE	37 20					
		FN	37 13					
635	14	ePE	3 09 10				26	
		eSE	09 36					
		ME	09 48					
		FE	12 14					
636	14	ePE	6 49 35				20	
		eSE	49 55					
		ME	50 06					
		MN	50 01					
		FE	51 38					
		FN	51 43					
637	14	ePE	18 30 24				40	
		eSE	31 04					
		ME	31 15					
		FE	34 42					
638	16	ePE	15 13 09				33	
		ePN	13 09					
		SE	13 42					
		SN	13 41					
		ME	13 59					
		MN	14 02					
		FE	17 40					
		FN	16 37					
639	16	iPE	16 57 16				23	
		ePN	57 15					
		iSE	57 39					
		SN	57 38					
		ME	58 12	1.5	− 41			
		MN	58 00	2.0		+ 70		
		FE	17 04 09					
		FN	02 57					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
640	Aug. 16	ePE	18 44 48				14	
		SE	45 02					
		eSN	45 02					
		ME	45 11	0.9	− 5			
		MN	45 14					
		FE	47 37					
		FN	46 57					
641	17	PE	10 38 37				20	
		PN	38 41					
		iSE	38 57					
		SN	38 59					
		ME	39 20	2.0	− 30			
		MN	39 12	1.7		− 48		
		FE	44 55					
		FN	43 04					
642	17	iPE	15 46 02				19	Intensity 1
		iPN	46 01					
		iSE	46 21					
		SN	46 21					
		ME	46 55	1.7	−180			
		MN	46 37	?		−425		
		FE	57 25					
		FN	55 21					
643	17	PE	18 04 47				23	
		SE	05 10					
		eSN	05 11					
		ME	05 29					
		MN	05 31					
		FE	07 32					
		FN	07 59					
644	17	ePE	20 59 49				20	
		SE	21 00 09					
		eSN	00 09					
		ME	01 51	2.0	− 6			
		MN	01 16					
		FE	04 49					
		FN	04 59					
645	18	ePE	12 57 24				27	
		ePN	57 25					
		SE	57 51					
		SN	57 52					
		ME	57 56	1.0	+ 12			
		MN	57 58	1.4		− 25		
		FE	13 01 05					
		FN	00 38					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
646	Aug. 18	PE	22 26 28				8 27	
		ePN	26 28					
		?SE	34 55					
		?SN	34 52					
		FE	56 17					
		FN	23 09 06					
647	19	eSE	4 34 07					
		ME	34 16					
		FE	36 05					
648	19	PE	5 58 10				17	
		SE	58 27					
		ME	58 44					
		MN	58 37					
		FE	6 01 00					
		FN	01 50					
649	19	ePE	22 29 43				15	
		SE	29 58					
		ME	30 13					
		FE	32 09					
650	20	ePE	11 05 00				19	
		SE	05 19					
		ME	05 29					
		MN	05 28					
		FE	07 20					
		FN	06 57					
651	21	ePE	15 24 54				4 55	
		ePN	24 54					
		eSE	29 56					
		eSN	29 43					
		FE	35 57					
		FN	35 36					
652	21	ePE	17 59 04				29	
		SE	59 33					
		SN	59 34					
		ME	59 59	2.4	– 10			
		MN	18 00 13	2.4		– 15		
		FE	05 17					
		FN	04 18					
653	21	ePE	20 53 05				36	
		SE	53 42					
		ME	54 27	1.2	– 5			
		MN	54 34					
		FE	57 48					
		FN	57 32					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
654	Aug. 22	iPE	0 06 48				17	Intensity 1
		iPN	06 49					
		SE	07 06					
		SN	07 06					
		MN	07 23	4.0		−1608		
		FE	27 07					
		FN	23 49					
655	23	ePE	0 13 05				27	
		SE	13 31					
		SN	13 33					
		ME	13 50	0.7	− 2			
		MN	13 50					
		FE	17 18					
		FN	16 36					
656	23	?PE	21 27 54				27	
		?SE	28 21					
		ME	28 43					
		MN	28 59					
		FE	31 11					
		FN	30 58					
657	25	PE	3 56 28				3 36	
		PN	56 27					
		?SE	4 00 04					
		?SN	00 02					
		FE	13 20					
		FN	12 57					
658	26	eSE	3 30 06					
		ME	30 21					
		MN	30 20					
		FE	32 10					
		FN	32 25					
659	26	ePE	7 10 41				33	
		SE	11 14					
		eSN	11 13					
		ME	11 20					
		MN	11 49					
		FE	13 28					
		FN	13 34					
660	27	ePE	8 01 31				26	
		iSE	01 57					
		SN	01 57					
		ME	02 12					
		MN	02 03					
		FE	04 56					
		FN	04 19					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
661	Aug. 27	iPE	20 15 43				21	Intensity 1
		PN	15 42					
		iSE	16 04					
		SN	16 04					
		ME	16 31	1.6	− 56			
		MN	16 22	2.4		−125		
		FE	23 57					
		FN	22 32					
662	27	ePE	20 43 47				30	
		ePN	43 48					
		iSE	44 17					
		SN	44 17					
		ME	44 26	1.1	− 20			
		MN	44 34	1.1		+ 25		
		FE	49 09					
		FN	47 54					
663	29	ePE	3 30 58				24	
		SE	31 22					
		eSN	31 23					
		ME	31 35					
		MN	31 33					
		FE	33 17					
		FN	32 24					
664	29	ePE	6 08 40				24	
		SE	09 04					
		SN	09 05					
		ME	09 31					
		MN	09 25					
		FE	11 49					
		FN	11 02					
665	29	ePE	9 10 10				32	
		SE	10 42					
		SN	10 43					
		ME	11 20	1.6	+ 12			
		MN	11 10					
		FE	15 49					
		FN	14 35					
666	29	ePE	9 38 34				27	
		SE	39 01					
		eSN	39 01					
		ME	39 14					
		MN	39 19					
		FE	40 23					
		FN	40 32					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
667	Aug. 29	?PE	10 51 35				26	
		eSE	52 01					
		ME	52 19					
		FE	53 46					
668	29	ME	12 59 15					
		FE	13 00 10					
669	29	eSE	22 28 57					
		eSN	28 56					
		ME	29 05					
		MN	29 04					
		FE	30 27					
		FN	30 13					
670	31	ePE	19 39 38				17	
		SE	39 55					
		ME	40 02					
		FE	41 40					
671	31	SE	21 44 39					
		ME	44 44					
		FE	46 02					

International Seismological Centre

緯度觀測所

岩手縣水澤町

岩手縣水澤町表小路十二番地
印刷人　佐々木正藏
岩手縣水澤町裏町四番地
印刷所　水澤印刷株式會社

International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

September

Latitude, 39° 8′ 4″ N.
Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_o s	$\frac{r}{T_o^2}$
E W	45.0	100	16	0.050
N S	17.6	20	36	0.005

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
672	Sept. 1	eSE	22 10 25					
		ME	10 54					
		FE	15 19					
673	2	ePE	19 03 12				32	
		SE	03 44					
		eSN	03 42					
		ME	04 36					
		MN	04 12					
		FE	07 26					
		FN	07 50					
674	3	PE	7 49 36				4 18	
		ePN	49 37					
		?SE	53 54					
		SN	53 58					
		FE	8 01 19					
		FN	01 26					
675	4	ePE	5 23 46				21	
		SE	24 07					
		eSN	24 08					
		ME	24 31					
		MN	24 44					
		FE	27 51					
		FN	27 15					
676	6	PE	22 20 43				2 02	
		ePN	20 42					
		SE	22 45					
		SN	22 45					
		ME	23 01	?	— 4			
		MN	22 49					
		FE	27 13					
		FN	27 02					
677	8	PE	12 10 21				4 36	
		PN	10 22					
		SE	14 57					
		SN	14 58					
		LE	21 02					
		LN	21 02					
		ME	16 14	13.8	+233			
		MN	16 35	25.6		−1180		
		FE	13 27 57					
		FN	23 46					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
678	Sept. 9	iPE	8 11 59				18	Intensity 1
		PN	12 01					
		iSE	12 17					
		SN	12 18					
		ME	12 25	1.2	− 95			
		MN	12 36	2.4		+203		
		FE	24 02					
		FN	19 46					
679	10	ePE	9 26 17				35	
		SE	26 52					
		eSN	26 49					
		ME	27 01	1.9	− 05			
		MN	27 11					
		FE	31 08					
		FN	30 24					
680	12	ePE	3 26 34				22	
		SE	26 56					
		ME	27 01					
		MN	27 15					
		FE	28 42					
		FN	28 38					
681	12	PE	5 05 59				36	
		PN	06 00					
		iSE	06 35					
		iSN	06 37					
		ME	07 19	2.1	+ 28			
		MN	06 44	1.5		− 50		
		FE	12 40					
		FN	11 26					
682	13	eSE	2 36 58					
		ME	37 13					
		FE	38 48					
683	13	ePE	16 55 10				17	
		SE	55 27					
		eSN	55 28					
		ME	55 33					
		MN	55 35					
		FE	56 53					
		FN	56 45					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
684	Sept. 13	ePE	22 35 11				17	
		SE	35 28					
		eSN	35 29					
		ME	35 38					
		MN	35 33					
		FE	37 40					
		FN	37 19					
685	14	ePE	3 58 43				20	
		SE	59 03					
		eSN	59 01					
		ME	59 12					
		MN	59 15					
		FE	4 01 37					
		FN	00 40					
686	14	ePE	21 08 14				17	
		SE	08 31					
		eSN	08 28					
		ME	08 45					
		MN	08 46					
		FE	11 22					
		FN	10 33					
687	16	SE	1 19 09					
		SN	19 10					
		ME	19 30					
		MN	19 42					
		FE	21 47					
		FN	21 34					
688	16	PE	6 49 05				21	
		ePN	49 06					
		iSE	49 26					
		iSN	49 27					
		ME	49 43	2.1	– 88			
		MN	49 48	2.4		–118		
		FE	55 37					
		FN	55 35					
689	16	?SE	7 23 34					
		ME	23 47					
		MN	23 50					
		FE	25 53					
		FN	25 47					

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
690	Sept. 16	ePE	18 16 32				27	
		ePN	16 32					
		SE	16 59					
		SN	16 59					
		ME	17 10	1.4	+ 17			
		MN	17 20					
		FE	22 34					
		FN	19 56					
691	17	ePE	7 49 32				31	
		SE	50 03					
		ME	50 09					
		MN	50 12					
		FE	52 44					
		FN	51 08					
692	17	ePE	9 34 30				25	
		SE	34 55					
		eSE	34 58					
		ME	35 03	1.4	+ 5			
		MN	35 08					
		FE	38 26					
		FN	38 15					
693	17	ePE	15 38 19				10	
		iSE	38 29					
		eSN	38 28					
		ME	38 30		– 10			
		MN	38 34					
		FE	41 32					
		FN	40 51					
694	19	iPE	5 53 15				18	
		ePN	53 14					
		iSE	53 33					
		iSN	53 31					
		ME	53 39	0.8	– 30			
		MN	53 40	1.2		– 50		
		FE	58 04					
		FN	57 13					
695	21	PE	7 37 49				15	
		PN	37 50					
		SE	38 05					
		SN	38 03					
		ME	38 17	2.5	+262			
		MN	38 34	2.4		+403		
		FE	46 09					
		FN	45 07					

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
696	Sept. 21	ePE	7 59 49				20	
		SE	8 00 09					
		eSN	00 10					
		ME	00 39					
		MN	00 34					
		FE	03 54					
		FN	02 18					
697	21	ePE	13 12 13				24	
		ePN	12 14					
		SE	12 37					
		SN	12 39					
		ME	13 00	2.4	+ 11			
		MN	13 11	2.4		− 20		
		FE	17 02					
		FN	16 01					
698	21	ePE	18 30 38				35	
		ePN	30 40					
		SE	31 13					
		SN	31 15					
		ME	31 23	2.4	+ 11			
		MN	31 21	2.4		+ 25		
		FE	35 13					
		FN	34 35					
699	22	iPE	3 20 42				1 00	
		iPN	20 42					
		SE	21 42					
		?SN	21 43					
		ME	21 53	1.3	− 5			
		MN	21 59					
		FE	27 05					
		FN	27 06					
700	23	SE	17 00 42					
		ME	00 49					
		MN	00 49					
		FE	03 20					
		FN	03 37					
701	24	ePE	0 17 00				16	
		iSE	17 16					
		eSN	17 16					
		ME	17 20	1.5	− 7			
		MN	17 19					
		FE	20 57					
		FN	20 13					

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
702	Sept. 24	ePE	6 02 23				25	
		SE	02 48					
		eSN	02 47					
		ME	02 51	1.4	– 5			
		MN	03 13					
		FE	05 10					
		FN	05 17					
703	24	ePE	14 31 44				29	
		SE	32 13					
		SN	32 14					
		ME	33 01					
		MN	32 51					
		FE	36 56					
		FN	35 14					
704	25	ePE	8 47 30				36	
		eSE	48 06					
		ME	48 30					
		FE	50 16					
705	25	ePE	10 54 38				12	
		SE	54 50					
		eSN	54 48					
		ME	54 56					
		MN	54 58					
		FE	56 17					
		FN	56 02					
706	27	ePE	16 44 55				52	
		eSE	45 47					
		eSN	45 48					
		ME	46 21					
		MN	46 30					
		FE	49 55					
		FN	50 02					
707	28	eSE	16 57 38					
		ME	58 03					
		FE	17 00 17					
708	30	eSE	13 38 55					
		ME	39 13					
		MN	39 01					
		FE	41 35					
		FN	40 56					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
709	Sept. 30	ePE	14 38 47				30	
		SE	39 17					
		ME	39 31					
		MN	39 38					
		FE	43 47					
		FN	42 17					

International Seismological Centre

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岩手縣水澤町

International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

October

Latitude, 39° 8′ 4″ N.
Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_o s	$\frac{r}{T_o^2}$
E W	45.0	100	16	0.055
N S	17.6	20	36	0.007

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
710	Oct. 1	ePE	16 39 10				25	
		ePE	39 11					
		SE	39 35					
		eSN	39 36					
		ME	39 54					
		MN	39 53					
		FE	42 49					
		FN	41 40					
711	1	PE	21 01 01				16	
		ePN	01 01					
		SE	01 17					
		eSN	01 17					
		ME	01 37	2.4	+ 8			
		MN	01 32	2.4		– 15		
		FE	04 57					
		FN	04 14					
712	1	PE	21 51 19				38	
		ePN	51 18					
		SE	51 57					
		SN	51 57					
		ME	52 16	1.9	– 10			
		MN	52 08					
		FE	55 58					
		FN	54 27					
713	2	ePE	1 42 24				26	
		SE	42 50					
		eSN	42 51					
		ME	43 11					
		MN	43 15					
		FE	45 37					
		FN	45 50					
714	2	ePE	4 47 47				32	
		SE	48 19					
		eSN	48 17					
		ME	48 36	1.6	– 5			
		MN	48 26					
		FE	51 55					
		FN	50 57					
715	3	ePE	7 01 13				17	
		eSE	01 30					
		ME	01 43					
		FN	03 26					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
716	Oct. 3	eSE	17 04 31					
		ME	04 52					
		FE	07 40					
717	4	ePE	0 25 46				26	
		SE	26 12					
		ME	26 36					
		FE	29 20					
718	5	ePE	21 18 31				41	
		SE	19 12					
		eSN	19 15					
		ME	19 34					
		MN	19 52					
		FE	22 35					
		FN	22 25					
719	6	?SE	15 04 37					
		?SN	04 39					
		ME	04 48					
		MN	05 02					
		FE	06 50					
		FN	08 06					
720	7	ePE	9 24 54				23	
		ePN	24 53					
		SE	25 17					
		SN	25 17					
		ME	25 47	1.1	+ 4			
		MN	25 23					
		FE	28 08					
		FN	27 29					
721	7	ePE	20 51 33				7 00	
		ePN	51 33					
		?SE	58 33					
		?SN	58 33					
		FE	21 04 47					
		FN	04 39					
722	7	PE	21 05 09				26	Intensity 1
		PN	05 10					
		iSE	05 35					
		iSN	05 35					
		ME	05 49		− 22			
		MN	05 39			± 30		
		FE	11 08					
		FN	10 09					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
723	Oct. 8	ePE	1 01 40				29	
		ePN	01 40					
		SE	02 09					
		SN	02 09					
		ME	02 46	1.9	+ 16			
		MN	02 47	2.4		− 32		
		FE	07 31					
		FN	07 07					
724	8	ePE	20 53 13				15	
		SE	53 28					
		eSN	53 29					
		ME	53 36					
		MN	53 38					
		FE	55 02					
		FN	54 51					
725	9	?SE	8 36 22					
		?SN	36 21					
		ME	36 59					
		MN	36 57					
		FE	39 37					
		FN	42 03					
726	10	PE	13 55 23				17	Intensity 1
		PN	55 22					
		iSE	55 40					
		SN	55 40					
		ME	55 54	2.4	− 84			
		MN	56 04	2.4		+148		
		FE	14 05 50					
		FN	05 38					
727	10	PE	14 15 28				17	
		PN	15 30					
		iSE	15 45					
		SN	15 46					
		ME	15 59	1.2	+ 16			
		MN	16 02	?		+ 25		
		FE	21 55					
		FN	20 26					
728	10	iPE	18 32 22					Intensity 3
		PE	32 22					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
729	Oct. 10	iPE	18 51 16				22	Intensity 2
		iPN	51 16					
		SE	51 38					
		SN	51 39					
		MN	51 54	2.4		−878		
		FE	19 32 08					
		FN	35 58					
730	10	PE	21 00 06				11	
		SE	00 17					
		ME	00 22					
		FE	01 37					
731	10	?SE	23 09 59					
		ME	10 26					
		FE	12 14					
732	11	iPE	10 21 00				31	
		ePN	20 59					
		iSE	21 31					
		SN	21 30					
		ME	22 12	2.0	+ 20			
		MN	21 43	1.9		− 25		
		FE	26 43					
		FN	26 00					
733	12	ePE	0 29 30				27	
		SE	29 57					
		ME	30 06					
		FE	31 17					
734	12	PE	5 05 05				31	
		ePN	05 06					
		SE	05 37					
		SN	05 37					
		ME	06 00					
		MN	05 51					
		FE	09 28					
		FN	08 20					
735	12	ePE	17 45 10				19	
		SE	45 29					
		SN	45 29					
		ME	45 32		+ 5			
		MN	45 36					
		FE	47 25					
		FN	47 33					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
736	Oct. 13	ePE	10 36 02				20	
		SE	36 22					
		eSN	36 22					
		ME	36 30					
		MN	36 42					
		FE	39 29					
		FN	39 55					
737	14	ePE	3 10 24				25	
		SE	10 49					
		ME	11 06					
		MN	11 10					
		FE	15 51					
		FN	14 26					
738	14	ePE	10 56 43				22	
		SN	57 05					
		ME	57 18					
		MN	57 13					
		FE	59 50					
		FN	58 30					
739	14	PE	12 29 44				20	
		PN	29 45					
		SE	30 04					
		eSN	30 03					
		ME	30 15					
		MN	30 14					
		FE	33 06					
		FN	31 53					
740	17	ePE	3 10 20				26	
		SE	10 46					
		ME	11 02					
		MN	10 55					
		FE	13 54					
		FN	15 05					
741	17	iPE	6 32 03				7 55	
		ePE	32 03					
		SE	39 58					
		SN	39 57					
		ME	32 29	2.5	+ 20			
		FE	53 47					
		FN	7 00 39					

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
742	Oct. 17	?SE	7 01 52					
		?SN	01 53					
		MN	02 13					
		FE	08 39					
		FN	06 58					
743	18	?PE	5 04 23				24	
		eSE	04 47					
		ME	05 16					
		MN	05 06					
		FE	07 30					
		FN	06 50					
744	18	ePE	19 25 40				11	
		SE	25 51					
		ME	25 57					
		MN	25 57					
		FE	26 48					
		FN	27 18					
745	21	ePE	10 25 39				19	
		SE	25 58					
		eSN	25 59					
		ME	26 19					
		MN	26 11					
		FE	28 14					
		FN	28 02					
746	21	PE	23 43 01				18	
		ePN	42 59					
		SE	43 19					
		SN	43 18					
		ME	43 31	1.1	— 7			
		MN	43 44					
747	21	ePE	23 44 32				14	
		SE	44 46					
		SN	44 46					
		ME	45 14	1.5	+ 8			
		MN	45 01					
		FE	49 20					
		FN	47 39					
748	22	SE	11 13 36					
		ME	13 48					
		MN	13 44					
		FE	14 50					
		FN	14 32					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P - S m s	Remarks
749	Oct. 22	PE	14 40 41				44	Intensity 1
		PN	40 42					
		SE	41 25					
		SN	41 23					
		ME	41 57	1.8	+134			
		MN	41 33	2.0		+175		
		FE	53 41					
		FN	52 17					
750	22	ePE	22 53 49				21	
		SE	54 10					
		eSN	54 12					
		ME	54 16					
		MN	54 21					
		FE	57 27					
		FN	56 26					
751	24	iPE	14 45 12				1 21	
		PN	45 13					
		SE	46 33					
		SN	46 31					
		FE	52 23					
		FN	53 15					
752	24	SE	17 04 13					
		ME	04 17					
		FE	05 00					
753	24	ePE	18 09 28				41	
		SE	10 09					
		eSN	10 09					
		ME	10 27					
		MN	10 30					
		FE	13 26					
		FN	14 48					
754	26	ePE	1 24 09				14	
		?SE	24 23					
		SN	24 21					
		ME	24 48	1.6	+ 10			
		MN	24 49					
		FE	28 45					
		FN	28 04					
755	26	ePE	3 52 35				39	
		SE	53 14					
		SN	53 16					
		ME	53 17	1.2	+ 10			
		MN	53 27					
		FE	56 37					
		FN	55 43					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
756	Oct. 28	ePE	17 24 30				21	
		ePN	24 27					
		SE	24 51					
		eSN	24 48					
		ME	25 56	1·6	+ 11			
		MN	25 50					
		FE	29 56					
		FN	28 14					
757	29	iPE	7 09 12				14	
		ePN	09 12					
		iSE	09 26					
		SN	09 27					
		ME	09 34	0.7	+ 5			
		MN	09 41	1.7		− 18		
		FE	12 26					
		FN	11 51					
758	31	ePE	17 22 25				12	
		SE	22 37					
		ME	22 46					
		FE	23 53					

International Seismological Centre

緯度觀測所

岩手縣水澤町表小路十二番地
印刷人　佐々木正藏
岩手縣水澤町裏町四番地
印刷所　水澤印刷株式會社

International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

November

Latitude, 39° 8′ 4″ N.
Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_0 s	$\frac{r}{T_0^2}$
E W	45.0	100	16	0.055
N S	17.6	20	36	0.007

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
759	Nov. 3	ePE	8 17 36				52	
		SE	18 28					
		SN	18 30					
		ME	18 53	1.6	— 6			
		MN	18 56	1.9		+ 10		
		FE	23 54					
		FN	21 56					
760	4	SE	8 25 12					
		ME	25 17					
		FE	26 10					
761	6	ePE	0 19 23				37	
		SE	19 59					
		eSN	19 58					
		ME	20 22					
		MN	20 02					
		FE	24 12					
		FN	22 42					
762	6	SE	12 50 35					
		ME	50 38					
		FE	52 02					
763	9	SE	12 19 55					
		ME	20 13					
		MN	20 38					
		FE	22 27					
		FN	22 42					
764	10	ePE	3 15 01				33	
		SE	15 34					
		ME	15 37	1.3	+ 7			
		FE	19 36					
765	10	?PE	6 31 22				1 05	
		?SE	32 27					
		?SN	32 31					
		ME	33 02	2.5	— 13			
		MN	32 40	2.4		+ 25		
		FE	37 39					
		FN	35 44					
766	11	eSE	7 27 01					
		ME	27 19					
		MN	27 27					
		FE	29 41					
		FN	28 55					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
767	Nov. 11	eSE	12 55 28					
		eSN	55 29					
		MN	55 34					
		FE	57 06					
		FN	56 51					
768	12	ePE	1 47 12				23	
		eSE	47 35					
		ME	47 50					
		MN	47 38					
		FE	49 30					
		FN	49 31					
769	15	eSE	19 22 10					
		ME	22 18					
		MN	22 12					
		FE	23 21					
		FN	22 32					
770	16	ePE	18 15 54				21	
		eSE	16 15					
		ME	16 36					
		MN	16 42					
		FE	18 25					
		FN	18 38					
771	17	?SE	9 10 30					
		ME	11 03					
		MN	10 45					
		FE	14 24					
		FN	13 10					
772	17	eSE	18 49 57					
		eSN	49 58					
		ME	50 31					
		MN	50 49					
		FE	53 00					
		FN	53 34					
773	18	PE	1 36 44				2 53	
		PN	36 43					
		SE	39 37					
		SN	39 41					
		ME	40 39	2.4	+ 20			
		MN	40 40					
		FE	49 50					
		FN	50 13					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
774	Nov. 20	ePE	6 05 19				27	
		eSE	05 46					
		eSN	05 48					
		ME	06 14					
		MN	06 05					
		FE	07 33					
		FN	06 58					
775	21	ePE	11 01 46				25	
		SE	02 11					
		SN	02 09					
		ME	02 14					
		MN	02 13					
		FE	04 52					
		FN	03 26					
776	21	iPE	11 10 52				7 20	
		PN	10 51					
		SE	18 12					
		SN	18 10					
		ME	11 53	2.4	+ 31			
		MN	13 09	2.8		− 30		
		FE	33 00					
		FN	30 15					
777	22	ePE	5 07 01				1 13	
		ePN	07 00					
		SE	08 14					
		eSN	08 15					
		ME	08 44	1.0	+ 6			
		MN	08 49					
		FE	14 08					
		FN	12 01					
778	22	ePE	5 46 59				1 22	
		eSE	48 21					
		?SN	48 20					
		ME	48 46	1.1	− 3			
		MN	49 06					
		FE	52 05					
		FN	51 45					
779	23	ePE	17 15 45				13	
		SE	15 58					
		ME	16 06					
		FE	17 28					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
780	Nov. 27	iPE	15 42 16				45	
		ePN	42 15					
		SE	43 00					
		SN	43 02					
		ME	43 04	2.4	− 56			
		MN	43 12	3.0		−115		
		FE	54 38					
		FN	54 34					
781	28	PE	0 30 53				16	Intensity 1
		PN	30 53					
		SE	31 09					
		SN	31 09					
		ME	31 10	0.8	− 31			
		MN	31 13	0.9		− 40		
		FE	34 56					
		FN	33 47					
782	28	ePE	2 58 17				22	
		SE	58 39					
		SN	58 39					
		ME	59 00					
		MN	58 50					
		FE	3 02 11					
		FN	01 17					
783	29	PE	14 43 07				19	
		ePN	43 06					
		SE	43 26					
		SN	43 24					
		ME	43 58	2.0	− 6			
		MN	43 40					
		FE	47 12					
		FN	45 43					
784	29	?SE	14 57 42					
		ME	57 55					
		MN	57 57					
		FE	15 00 30					
		FN	14 59 48					
785	29	PE	22 21 29				26	Intensity 1
		PN	21 28					
		SE	21 55					
		SN	21 54					
		ME	22 04	0.5	− 54			
		MN	21 57	1.4		− 75		
		FE	29 57					
		FN	27 22					

International Seismological Centre

緯度觀測所

岩手縣水澤町

岩手縣水澤町表小路十二番地
印刷人　佐々木正藏
岩手縣水澤町裏町四番地
印刷所　水澤印刷株式會社

International Seismological Centre

MIZUSAWA JAPAN

SEISMOLOGICAL BULLETIN

International Latitude Observatory of Mizusawa

1939

December

Latitude, 39° 8′ 4″ N.
Longitude, 141° 7′ 52″ E.
Height above mean sea level, 61m.
Sub-soil, Diluvial Formation.
Instrument, Omori's Horizontal Pendulum Seismograph.
Instrumental Constants,

Comp.	M kg.	V	T_0 s	$\frac{r}{T_0^2}$
E W	45.0	100	16	0.070
N S	17.6	20	35	0.006

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
786	Dec. 3	ePE	12 41 14				20	
		SE	41 34					
		ME	41 44					
		FE	43 25					
787	5	SE	14 29 00					
		ME	29 06					
		MN	29 13					
		FE	31 00					
		FN	29 58					
788	5	ePE	17 37 17				19	
		SE	37 36					
		eSN	37 36					
		ME	37 57					
		MN	38 08					
		FE	41 20					
		FN	40 49					
789	6	SE	1 47 37					
		ME	47 40					
		FE	48 38					
790	6	iPE	18 00 31				20	Intensity 1 First motion { E, − 15 μ { N, + 50 μ
		PN	00 31					
		SE	00 52					
		SN	00 53					
		ME	01 08	2.0	−182			
		MN	00 54	1.7		−340		
		FE	10 40					
		FN	09 24					
791	7	ePE	2 12 44				23	
		SE	13 07					
		eSN	13 07					
		ME	13 21					
		MN	13 12					
		FE	15 24					
		FN	14 37					
792	7	ePE	5 16 18				39	
		SE	16 57					
		ME	17 06					
		MN	17 08					
		FE	19 31					
		FN	18 53					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
793	Dec. 7	eSE	11 22 49					
		ME	23 24					
		FE	26 09					
794	7	ePE	13 40 42				19	
		SE	41 01					
		SN	41 00					
		ME	41 07					
		MN	41 10					
		FE	43 33					
		FN	42 34					
795	7	SE	16 02 00					
		ME	02 04					
		FE	03 25					
796	7	ePE	19 56 33				18	
		ePN	56 32					
		iSE	56 51					
		SN	56 51					
		ME	57 28					
		MN	57 23					
		FE	20 01 01					
		FN	19 59 34					
797	8	ePE	19 17 20				24	
		SE	17 44					
		eSN	17 44					
		ME	17 49					
		MN	17 49					
		FE	20 15					
		FN	19 29					
798	9	ePE	4 15 21				19	
		SE	15 40					
		ME	15 51					
		MN	15 55					
		FE	17 19					
		FN	17 20					
799	9	?SE	20 20 46					
		ME	21 51					
		MN	21 22					
		FE	26 17					
		FN	25 07					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
800	Dec. 14	ePE	5 06 51				19	
		ePN	06 52					
		iSE	08 10					
		iSN	08 11					
		ME	09 12	1.8	– 18			
		MN	09 03	2.2		– 25		
		FE	15 23					
		FN	15 48					
801	14	iPE	13 50 28				12	
		ePN	50 28					
		iSE	50 40					
		iSN	50 39					
		ME	50 43	?	± 9			
		MN	50 41					
		FE	52 59					
		FN	52 12					
802	14	iPE	18 03 19				14	
		PN	03 21					
		iSE	03 33					
		SN	03 35					
		ME	03 38	0.6	– 41			
		MN	03 39	1.2		– 65		
		FE	07 25					
		FN	06 26					
803	14	ePE	20 15 10				1 01	
		SE	16 11					
		eSN	16 10					
		ME	16 21					
		MN	16 24					
		FE	18 17					
		FN	18 43					
804	16	iPE	10 48 09				1 09	Intensity 2
		iPN	48 09					First motion
		iSE	49 18					E, + 10 μ
		iSN	49 17					N, + 30 μ
		ME	49 24	2.4	−514			Epicenter, NE off
		MN	49 36	2.4		+455		Cape Otisi.
		FE	11 17 36					
		FN	24 41					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
805	Dec. 16	PE	14 11 40				1 09	
		ePN	11 40					
		SE	12 49					
		SN	12 48					
		ME	12 58	1.1	+ 20			
		MN	12 59	1.7		+ 28		
		FE	16 24					
		FN	15 55					
806	17	ME	7 58 15					
		MN	58 06					
		FE	59 52					
		FN	8 01 08					
807	18	?PE	2 10 20				24	
		?SE	10 44					
		ME	10 54					
		MN	10 52					
		FE	12 31					
		FN	11 55					
808	18	eSE	9 26 25					
		eSN	26 27					
		ME	26 36					
		MN	26 31					
		FE	27 42					
		FN	27 17					
809	18	iPE	11 38 03				17	Intensity 1
		PN	38 03					
		iSE	38 20					
		iSN	38 20					
		ME	38 28	0.9	– 39			
		MN	38 26	?		+ 58		
		FE	42 59					
		FN	41 38					
810	19	ePE	2 00 40				36	
		eSE	01 16					
		eSN	01 13					
		ME	02 08	2.4	+ 3			
		MN	02 05					
		FE	05 43					
		FN	05 11					

International Seismological Centre

No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
811	Dec. 20	PE	10 25 11				36	
		iSE	25 47					
		eSN	25 46					
		ME	25 57					
		MN	25 58					
		FE	28 56					
		FN	27 46					
812	20	iPE	18 15 20				12	Intensity 2
		iPN	15 20					First motion
		iSE	15 32					E, + 136 μ
		iSN	15 32					N, − 120 μ
		ME	15 39		±298			Epicenter, Off
		MN	16 05	2.1		+363		Yosihama Bay
		FE	27 29					
		FN	26 04					
813	21	iPE	21 08 26				6 16	
		iPN	08 26					
		iSE	14 42					
		iSN	14 36					
		MN	21 53	40.8		−2585		
		FE	22 46 52					
		FN	52 58					
814	22	ePE	5 52 16				32	
		SE	52 48					
		SN	52 49					
		ME	53 00					
		MN	52 53					
		FE	55 20					
		FN	54 02					
815	22	PE	8 25 25				18	
		SE	25 43					
		eSN	25 42					
		ME	25 52					
		MN	25 50					
		FE	28 15					
		FN	27 16					
816	25	ePE	11 21 38				1 25	
		SE	23 03					
		eSN	23 05					
		ME	23 08	1.5	− 5			
		MN	23 28					
		FE	28 08					
		FN	27 10					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P – S m s	Remarks
817	Dec. 25	eSE	21 03 54					
		ME	04 14					
		FE	06 19					
818	26	ePE	12 19 17				22	
		SE	19 39					
		ME	19 47					
		MN	20 03					
		FE	22 13					
		FN	23 08					
819	26	ePE	19 40 17				27	
		SE	40 44					
		eSN	40 43					
		ME	41 16	1.1	-- 6			
		MN	41 02					
		FE	45 02					
		FN	44 01					
820	27	ePE	0 08 52				10 25	Great earthquake of Turkey.
		ePN	08 52					
		eSE	19 15					
		eSN	19 19					
		?LE	36 17					
		?LN	36 14					
		ME	54 44	20.4	+174			
		MN	43 39	24.6		−865		
		FE	1 26 14					
		FN	2 23 52					
821	27	ePE	3 10 26				6 21	
		ePN	10 26					
		eSE	16 49					
		eSN	16 45					
		ME	17 20	3.2	+ 8			
		MN	17 22					
		FE	24 06					
		FN	30 01					
822	28	ePE	23 15 19				35	
		SE	15 54					
		SN	15 53					
		ME	16 15	2.2	− 5			
		MN	16 20					
		FE	20 42					
		FN	18 23					

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No.	Date	Phase	Time (G.C.T.) h m s	Period s	Max. Amp. AE μ	Max. Amp. AN μ	P - S m s	Remarks
823	Dec. 30	ePE	20 05 37				1 10	
		ePN	05 39					
		SE	06 47					
		SN	06 46					
		ME	06 55	1.2	+ 10			
		MN	06 57					
		FE	10 07					
		FN	09 20					
824	31	ePE	2 41 38				27	
		SE	42 05					
		SN	42 04					
		ME	42 26					
		MN	42 13					
		FE	44 37					
		FN	44 53					
825	31	ePE	6 36 03				20	
		ePN	36 03					
		SE	36 23					
		eSN	36 21					
		ME	36 44					
		MN	36 43					
		FE	39 57					
		FN	38 27					
826	31	PE	6 53 57				49	
		ePN	53 57					
		SE	54 46					
		eSN	54 44					
		ME	56 16	2.7	− 63			
		MN	55 30	2.3		+100		
		FE	7 03 46					
		FN	01 57					
827	31	ePE	18 28 18				18	
		ePN	28 15					
		SE	28 35					
		SN	28 35					
		ME	29 12	1.9	− 9			
		MN	29 22	2.1		+ 18		
		FE	33 44					
		FN	31 00					

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