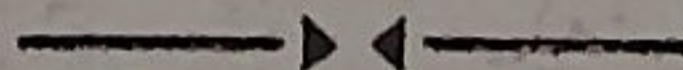
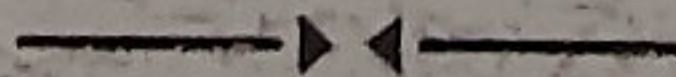


OCT 28 1954

ANNUAL REPORT
OF THE
METEOROLOGICAL
AND THE
SEISMOLOGICAL OBSERVATIONS
MADE AT THE
INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA
FOR
THE YEAR 1944.



**LATITUDE 39° 8' N., LONGITUDE 141° 8' E.,
HEIGHT ABOVE MEAN SEA LEVEL 61 METRES.**



**PUBLISHED BY THE INTERNATIONAL LATITUDE OBSERVATORY
OF MIZUSAWA.**

—
1950

The present report gives the results of the meteorological and seismological observations made at this observatory during the year 1944. No alteration has been made in the nature and methods of the observation.

The observations and computations were done by Messrs. S. Sato, I. Kumagai and K. Suzuki under the superintendence of Mr. C. Sugawa.

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

Hours of observations.—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, and the correction to standard gravity are given at the bottom of the page for each month. Those reduced to mean sea level are given in page 26 and 27.

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 cardinal 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 the motion is indicated relative to the sixteen cardinal points of the compass.

Tension of Water Vapour.—is given in millimetres.

Relative Humidity.—is given in percentages.

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 10 h of the day in question to 10 h of the next day, according to the instruction of the Central Meteorological Observatory in Tokyo.

The heights of the meteorological instruments are as follows:

Barometer.—63.1 m above mean sea level.

Air temperature thermometer.—1.3 m above the ground.

Anemometer.—16.5 m above the ground.

Wind vane.—16.6 m above the ground.

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

○	Rain	⇨	Snow drift	☃	Red sky
*	Snow	∞	Haze	0	Unusual visibility
△	Graupel	☁	Haze in the neighbourhood	↘	Gale
▲	Hail	☁	Dust-storm	☁	Yellow dust
≡	Fog	⊖	Frozen rain	☁	Wavy cloud
☁	Ice fog	↔	Ice needles	☁	Mammato-cumulus
☁	Fog in the neighbourhood	☁	Snow coverage	☁	Lenticular cloud
☁	Drizzle	☁	New snow coverage	☁	Earthquake
=	Mist	☁	Freezing	☁	Cirrus
☁	Hoar frost	☁	Thunder storm	CS	Cirro-stratus
☁	Ice columns in ground	☁	Thunder	CK	Cirro-cumulus
☁	Dew	☁	Lightning	KC	Alto-cumulus
☁	Frozen dew	☁	Solar halo	SC	Alto-stratus
☁	Air hoar	☁	Solar corona	SK	Strato-cumulus
☁	Soft rime	☁	Lunar halo	N	Nimbus
☁	Hard rime	☁	Lunar corona	K	Cumulus
☁	Grazed frost	☁	Rainbow	KN	Cumulo-nimbus
☁	Snow storm	☁	Aurora	S	Stratus

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 Ômori'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," are 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

March, 1950.

T. Ikeda.

Director of the International Latitude Observatory
of Mizusawa.

SEISMOLOGICAL OBSERVATIONS

Remarks:—

- 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

- The time adopted in the seismological observations is Japanese Central Standard Time reckoned from midnight.

- 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, 1944.



No.	Date 1944		P				S				L				Maximum Amplitude				Duration of Total Earthquake	Intensity		
			E	W	N	S	E	W	N	S	E	W	N	S	E	W	N	S				
1	Jan.	1	h 10	m 38	s 23	m 38	s 25	m 44	s 28	m 44	s 30	-	-	-	-	-	-	-	75	32	0	
2		2	e 11	00	47	-	-	01	33	-	-	-	-	-	-	-	-	-	2	57	0	
3		2	e 11	04	32	e 04	30	04	56	04	55	-	-	-	-	-	-	-	3	00	0	
4		3	e 23	28	23	e 28	23	29	18	29	18	-	-	-	-	-	-	-	11	02	0	
5		4	e 3	00	30	e 00	27	03	34	e 03	33	-	-	-	-	-	-	-	9	39	0	
6		4	e 4	10	58	-	-	12	01	e 11	58	-	-	-	-	-	-	-	7	36	0	
7		5	e 11	56	20	e 56	21	? 59	17	59	15	-	-	-	-	-	-	-	11	23	0	
8		5	20	52	21	e 52	18	52	44	52	45	-	-	-	-	-	-	-	3	14	0	
9		5	20	55	52	e 55	54	56	35	e 56	35	-	-	-	-	-	-	-	3	48	0	
10		6	e 6	22	25	e 22	25	e 30	09	e 30	04	-	-	-	-	-	-	-	45	09	0	
11		7	e 11	57	13	e 57	13	? 61	53	? 61	53	-	-	-	-	-	-	-	14	35	0	
12		8	13	30	52	30	55	31	31	31	29	-	-	-	-	-	-	-	5	22	0	
13		9	e 9	47	50	e 47	50	50	07	50	04	-	-	-	-	-	-	-	14	04	0	
14		9	e 17	02	29	-	-	02	57	-	-	-	-	-	-	-	-	-	2	29	0	
15		11	8	00	26	e 00	24	00	36	00	33	-	-	-	-	-	-	± 10	2	22	0	
16		11	10	34	33	34	34	34	49	34	49	-	-	-	-	-	-	⊕	-1400	10	17	2
17		11	19	38	53	-	-	39	10	-	-	-	-	-	-	-	-	-	7	33	0	
18		12	e 13	32	35	-	-	32	57	-	-	-	-	-	-	-	-	-	6	28	0	
19		13	e 23	35	51	-	-	36	23	36	20	-	-	-	-	-	-	-	11	54	0	
20		16	e 6	07	08	-	-	07	33	07	34	-	-	-	-	-	-	-	7	09	0	
21		16	e 9	09	49	? 09	43	? 13	23	? 13	16	-	-	-	-	-	-	-	9	33	0	
22		16	23	-	-	-	-	e 52	37	-	-	-	-	-	-	-	-	-	-	-	0	
23		18	23	-	-	-	-	e 38	37	-	-	-	-	-	-	-	-	-	3	-	0	
24		19	14	32	58	32	51	34	53	34	54	-	-	-	-	-	-	-	33	48	0	
25		20	e 14	33	55	-	-	34	14	e 34	13	-	-	-	-	-	-	-	5	-	0	
26		23	e 4	44	53	-	-	45	16	e 45	14	-	-	-	-	-	-	-	6	-	0	
27		25	4	04	07	-	-	04	18	-	-	-	-	-	-	-	-	-	-	-	0	
28		25	4	15	08	-	-	15	21	-	-	-	-	-	-	-	-	-	-	-	0	
29		25	4	17	06	-	-	17	15	-	-	-	-	-	-	-	-	-	-	-	0	
30		25	e 16	42	19	-	-	? 49	38	? 49	32	-	-	-	-	-	-	-	-	-	0	
31		26	18	42	28	-	-	43	06	e 43	06	-	-	-	-	-	-	-	5	-	0	
32		27	18	-	-	-	-	11	59	-	-	-	-	-	-	-	-	-	-	-	0	
33		28	6	31	22	-	-	31	42	-	-	-	-	-	-	-	-	-	4	-	0	
34		28	e 20	07	43	? 07	47	? 12	02	12	04	-	-	-	-	-	-	-	-	-	0	
35		28	e 21	29	13	-	-	29	42	-	-	-	-	-	-	-	-	-	-	-	0	
36		29	e 9	51	05	-	-	e 51	44	-	-	-	-	-	-	-	-	-	-	-	0	
37		30	6	50	46	e 50	45	52	21	e 52	19	-	-	-	-	-	-	-	8	13	0	
38		31	18	-	-	-	-	31	38	-	-	-	-	-	-	-	-	-	5	-	0	
39	Feb.	1	e 12	34	29	e 34	33	44	45	44	29	-	-	55	24	-	-	-	-	-	0	
40		1	i 14	17	09	i 17	08	17	47	17	45	-	-	-	-	-	-	⊕	+2255	8	56	2
41		1	e 23	10	00	-	-	10	34	-	-	-	-	-	-	-	-	-	-	-	0	
42		3	e 13	27	11	-	-	27	33	-	-	-	-	-	-	-	-	-	-	-	0	
43		4	e 4	13	56	-	-	15	07	-	-	-	-	-	-	-	-	-	-	-	0	
44		5	e 4	54	40	-	-	55	05	-	-	-	-	-	-	-	-	-	-	-	0	
45		6	1	41	34	-	-	41	46	-	-	-	-	-	-	-	-	-	7	-	0	
46		6	e 2	25	09	? 24	44	? 32	38	32	38	-	-	-	-	-	-	-	-	-	0	
47		8	e 13	51	24	-	-	51	54	-	-	-	-	-	-	-	-	-	-	-	0	
48		9	e 17	34	44	-	-	34	54	-	-	-	-	-	-	-	-	-	-	-	0	
49		12	e 0	40	09	-	-	40	31	-	-	-	-	-	-	-	-	-	-	-	0	
50		13	e 7	51	34	e 51	34	51	58	52	00	-	-	-	-	-	-	-	22	28	0	
51		14	e 0	14	50	-	-	16	03	-	-	-	-	-	-	-	-	-	11	-	0	
52		14	e 11	55	19	e 55	27	? 60	58	? 61	12	-	-	-	-	-	-	-	-	-	0	
53		19	4	19	47	-	-	20	21	20	19	-	-	-	-	-	-	-	36	-	0	
54		19	e 9	24	39	-	-	25	17	25	16	-	-	-	-	-	-	-	12	-	0	
55		20	e 0	31	16	-	-	32	01	32	01	-	-	-	-	-	-	-	9	23	0	

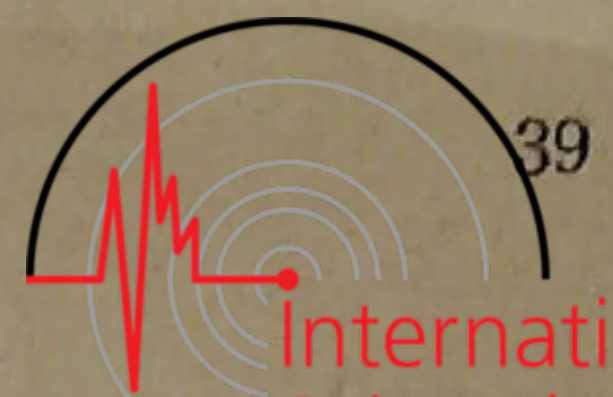
EARTHQUAKES, 1944.

No.	Date 1944	P				S				L				Maximum Amplitude				Duration of Total Earthquake	Intensity	
		E	W	N	S	E	W	N	S	E	W	N	S	E	W	N	S			
56	Feb. 20	e 5	22	40	-	-	23	35	-	-	-	-	-	-	-	-	-	4	34	0
57	24	e 12	13	38	-	-	13	58	-	-	-	-	-	-	-	-	-	3	02	0
58	24	e 17	45	33	-	-	46	08	-	-	-	-	-	-	-	-	-	3	54	0
59	29	e 12	31	06	-	-	31	29	e 31	28	-	-	-	-	+ 22	+ 20	-	2	53	0
60	29	e 13	01	02	? 01	06	e 04	33	e 04	41	-	-	-	-	-	-	-	11	20	0
61	Mar. 1	1	39	31	e 39	32	e 48	42	e 48	51	-	-	-	-	-	-	-	24	09	0
62	2	22	-	-	-	-	e 21	03	-	-	-	-	-	-	-	-	-	-	-	0
63	4	14	44	21	e 44	20	e 44	51	44	51	-	-	-	+ 48	- 52	-	-	8	44	0
64	5	e 13	12	00	-	-	12	36	e 12	36	-	-	-	- 10	-	-	-	4	23	0
65	5	16	22	33	-	-	22	56	-	-	-	-	-	-	-	-	-	2	39	0
66	6	e 2	22	31	? 22	33	26	58	27	55	-	-	-	-	-	-	-	11	53	0
67	6	14	-	-	-	-	24	44	24	44	-	-	-	+ 11	- 12	-	-	-	-	0
68	6	17	-	-	-	-	54	19	-	-	-	-	-	-	-	-	-	-	-	0
69	6	19	04	16	e 04	15	04	56	04	55	-	-	-	+ 25	- 40	-	-	7	12	0
70	8	e 0	46	14	-	-	46	34	-	-	-	-	-	-	-	-	-	1	15	0
71	8	5	-	-	-	-	e 37	35	-	-	-	-	-	-	-	-	-	-	-	0
72	8	e 14	58	22	-	-	59	45	-	-	-	-	-	-	-	-	-	4	56	0
73	8	18	07	53	-	-	e 08	21	08	24	-	-	-	- 9	-	-	-	3	46	0
74	8	20	13	46	e 13	47	14	12	e 14	13	-	-	-	+ 21	+ 23	-	-	5	23	0
75	10	e 7	20	53	? 20	54	? 29	43	? 29	38	35	23	35	20	+ 76	- 205	-	106	54	0
76	10	10	-	-	-	-	09	49	-	-	-	-	-	-	-	-	-	-	-	0
77	10	i 15	40	34	40	30	40	56	40	51	-	-	-	⊕	-	-	-	19	57	2
78	10	16	33	45	e 33	43	34	07	e 34	05	-	-	-	+ 33	- 1585	-	-	4	07	0
79	10	e 17	18	35	-	-	18	58	-	-	-	-	-	-	-	-	-	1	47	0
80	10	17	-	-	-	-	34	36	-	-	-	-	-	-	-	-	-	-	-	0
81	10	e 19	21	39	-	-	22	03	22	05	-	-	-	- 16	-	-	-	3	53	0
82	10	e 21	47	32	-	-	48	01	e 48	04	-	-	-	-	-	-	-	2	52	0
83	10	e 21	58	08	-	-	58	29	-	-	-	-	-	-	-	-	-	2	18	0
84	10	e 22	46	17	-	-	46	40	-	-	-	-	-	-	-	-	-	2	20	0
85	10	e 23	41	48	-	-	42	09	-	-	-	-	-	-	-	-	-	2	00	0
86	11	3	-	-	-	-	34	46	-	-	-	-	-	-	-	-	-	-	-	0
87	11	e 4	57	53	-	-	58	19	-	-	-	-	-	-	-	-	-	2	53	0
88	11	7	52	53	-	-	53	18	e 53	20	-	-	-	+ 15	-	-	-	2	54	0
89	11	17	05	31	05	29	05	42	05	43	-	-	-	± 188	± 150	-	-	3	50	2
90	11	18	08	09	-	-	08	34	e 08	33	-	-	-	- 6	-	-	-	3	18	0
91	15	18	-	-	-	-	? 01	43	-	-	-	-	-	-	-	-	-	-	-	0
92	17	20	55	25	55	24	55	37	55	36	-	-	-	± 90	- 105	-	-	6	10	1
93	19	17	35	02	35	03	35	45	e 35	43	-	-	-	+ 16	-	-	-	5	35	0
94	20	e 2	53	37	e 53	39	? 59	34	-	-	-	-	-	-	-	-	-	16	55	0
95	22	i 7	10	27	10	28	10	51	10	54	-	-	-	⊕	- 1040	-	-	15	23	2
96	22	e 7	33	36	-	-	34	02	-	-	-	-	-	-	-	-	-	1	54	0
97	22	7	39	07	-	-	39	32	39	33	-	-	-	+ 13	-	-	-	3	01	0
98	22	e 9	30	40	-	-	31	03	-	-	-	-	-	-	-	-	-	1	26	0
99	22	9	51	55	51	55	58	49	58	52	-	-	-	- 35	-	-	-	41	18	0
100	24	4	20	32	20	32	20	56	20	57	-	-	-	+ 122	+ 160	-	-	6	48	0
101	24	e 10	47	31	-	-	48	07	-	-	-	-	-	- 5	-	-	-	3	46	0
102	26	e 12	43	22	-	-	e 43	43	-	-	-	-	-	-	-	-	-	1	53	0
103	31	e 12	00	02	e 00	01	06	36	e 06	37	-	-	-	-	-	-	-	37	23	0
104	Apr. 1	3	59	26	-	-	61	30	e 61	33	-	-	-	- 55	- 38	-	-	7	46	0
105	2	0	-	-	-	-	e 37	50	-	-	-	-	-	-	-	-	-	-	-	0
106	5	6	06	45	-	-	07	30	07	29	-	-	-	+ 9	-	-	-	3	54	0
107	6	e 15	03	29	-	-	-	-	-	-	-	-	-	-	-	-	-	1	25	0
108	7	3	-	-	-	-	e 08	53	-	-	-	-	-	-	-	-	-	-	-	0
109	7	15	49	37	e 49	36	50	01	e 50	01	-	-	-	+ 7	-	-	-	3	15	0
110	10	e 3	19	58	e 20	04	24	29	e 24	25	-	-	-	- 14	-	-	-	15	34	0



EARTHQUAKES, 1944.

No.	Date 1944	P				S				L				Maximum Amplitude				Duration of Total Earthquake	Intensity
		E	W	N	S	E	W	N	S	E	W	N	S	E	W	N	S		
111	Apr. 10	e 7	33	51	e 33	49	34	53	34	53	-	-	-	-	+ 6	-	9	01	0
112	11	1	35	08	-	-	e 35	35	e 35	32	-	-	-	-	+ 7	-	2	26	0
113	11	1	42	49	42	48	43	12	43	11	-	-	-	-	+ 29	- 38	4	46	0
114	11	e 4	00	48	-	-	01	11	-	-	-	-	-	-	-	-	1	49	0
115	12	7	-	-	-	-	e 40	19	-	-	-	-	-	-	-	-	-	-	0
116	12	11	35	56	35	55	36	20	36	20	-	-	-	-	+ 38	- 52	5	07	0
117	12	e 13	47	33	-	-	e 47	51	e 47	49	-	-	-	-	- 6	-	4	01	0
118	13	1	36	22	e 36	23	36	38	e 36	38	-	-	-	-	+ 19	+ 23	4	47	0
119	15	e 2	29	27	-	-	30	02	29	59	-	-	-	-	+ 10	-	3	33	0
120	16	e 17	30	42	-	-	31	01	-	-	-	-	-	-	-	-	2	12	0
121	16	18	47	51	47	48	50	53	50	54	-	-	-	-	- 71	- 48	9	49	0
122	16	19	-	-	-	-	e 30	24	-	-	-	-	-	+ 3	-	-	-	-	0
123	16	23	29	10	e 29	09	29	34	29	34	-	-	-	+ 11	-	-	3	29	0
124	17	e 4	13	58	-	-	14	23	-	-	-	-	-	-	-	-	2	03	0
125	17	e 20	37	13	-	-	e 37	36	-	-	-	-	-	+ 5	-	-	2	06	0
126	20	16	-	-	-	-	e 34	52	-	-	-	-	-	-	-	-	-	-	0
127	20	17	39	55	-	-	40	07	-	-	-	-	-	-	-	-	1	37	0
128	22	12	16	24	e 16	23	16	52	16	52	-	-	-	+ 25	- 33	-	6	39	0
129	24	e 5	16	26	-	-	16	57	e 16	57	-	-	-	- 5	-	-	3	11	0
130	26	e 7	56	50	-	-	57	08	e 57	08	-	-	-	- 12	-	-	3	44	0
131	26	11	01	56	e 01	54	e 08	09	08	04	13	23	13	14	+ 18	-	43	28	0
132	26	e 14	16	28	-	-	17	03	-	-	-	-	-	-	-	-	2	48	0
133	27	8	59	51	59	52	60	04	60	03	-	-	-	± 62	± 88	-	3	46	1
134	27	23	45	50	e 45	51	52	03	52	03	54	56	54	58	-	+ 13	77	45	0
135	28	e 14	14	20	-	-	14	38	-	-	-	-	-	-	-	-	1	57	0
136	May 30	e 20	50	47	-	-	e 51	15	-	-	-	-	-	+ 5	-	-	2	31	0
137	1	2	27	05	e 27	07	27	26	27	24	-	-	-	+ 69	+ 128	-	6	05	0
138	4	6	15	51	e 15	50	16	26	16	26	-	-	-	+ 35	+ 43	-	5	19	0
139	5	e 2	35	02	-	-	35	25	e 35	27	-	-	-	-	-	-	3	14	0
140	5	9	-	-	-	-	38	58	-	-	-	-	-	- 6	-	-	-	-	0
141	6	e 4	10	24	-	-	e 10	42	-	-	-	-	-	-	-	-	1	17	0
142	6	e 5	01	36	-	-	02	03	-	-	-	-	-	- 4	-	-	2	21	0
143	9	6	-	-	-	-	e 29	33	-	-	-	-	-	- 3	-	-	-	-	0
144	11	13	38	02	38	01	38	19	38	20	-	-	-	- 91	- 115	-	5	14	0
145	14	5	-	-	-	-	e 51	29	-	-	-	-	-	-	-	-	-	-	0
146	16	4	-	-	-	-	e 27	00	-	-	-	-	-	-	-	-	-	-	0
147	16	6	01	52	-	-	02	18	-	-	-	-	-	+ 6	-	-	2	33	0
148	16	e 8	13	14	-	-	e 13	47	e 13	49	-	-	-	+ 5	-	-	4	34	0
149	16	10	47	06	-	-	47	42	47	41	-	-	-	- 10	-	-	5	30	0
150	16	e 14	25	30	? 25	32	26	08	26	09	-	-	-	- 11	-	-	6	23	0
151	16	21	-	-	-	-	e 56	17	-	-	-	-	-	-	-	-	-	-	0
152	17	9	01	23	-	-	01	49	01	47	-	-	-	+ 20	+ 33	-	4	06	0
153	17	15	56	24	-	-	57	19	e 57	19	-	-	-	- 10	-	-	5	21	0
154	18	1	09	04	-	-	09	26	-	-	-	-	-	+ 5	-	-	3	02	0
155	19	? 9	27	36	? 27	34	-	-	37	01	-	-	-	-	-	-	58	45	0
156	19	9	33	39	-	-	34	34	e 34	37	-	-	-	+ 22	+ 25	-	6	10	0
157	20	16	37	53	-	-	38	28	e 38	28	-	-	-	- 16	-	-	3	49	0
158	22	12	-	-	-	-	e 23	30	-	-	-	-	-	-	-	-	-	-	0
159	23	e 12	24	25	-	-	25	01	-	-	-	-	-	-	-	-	2	52	0
160	25	10	16	54	16	55	25	22	25	23	-	-	-	-	-	-	33	22	0
161	25	e 21	19	29	-	-	19	41	e 19	42	-	-	-	-	-	-	2	20	0
162	25	e 22	06	03	06	04	e 12	09	e 12	12	? 15	43	? 15	35	-	+ 210	130	16	0
163	26	e 15	51	01	-	-	51	30	-	-	-	-	-	-	-	-	2	47	0
164	27	13	59	44	-	-	e 60	08	-	-	-	-	-	+ 6	-	-	2	26	0
165	27	e 16	07	39	-	-	e 08	21	-	-	-	-	-	+ 5	-	-	2	26	0
														+ 4	-	-	3	28	0



EARTHQUAKES, 1944.

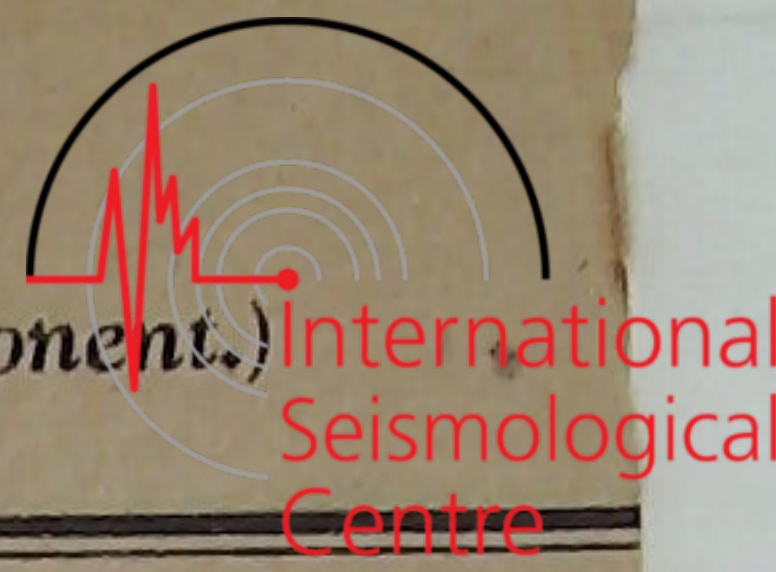
No:	Date 1944	P				S				L				Maximum Amplitude				Duration of Total Earthquake	Intensity	
		E	W	N	S	E	W	N	S	E	W	N	S	E	W	N	S			
166	May 27	h 23	m 57	s 04	-	-	m 57	s 17	-	-	-	-	-	-	-	-	-	m 1	s 27	0
167	28	16	-	-	-	-	m 46	s 36	-	-	-	-	-	-	-	-	-	-	-	0
168	28	22	53	17	-	-	m 53	s 38	-	-	-	-	-	+ 5	-	-	-	m 3	s 42	0
169	30	21	44	34	-	-	m 44	s 45	-	-	-	-	-	-	-	-	-	m 1	s 26	0
170	31	e 20	04	13	-	-	m 04	s 51	e 04	49	-	-	-	-	-	-	-	m 3	s 04	0
171	June 2	i 11	27	13	27	16	i 27	37	27	37	-	-	-	-190	-308	-	-	m 11	s 00	0
172	3	i 13	12	36	i 12	37	i 14	13	i 14	14	-	-	-	+ 56	- 78	-	-	m 8	s 58	0
173	3	e 20	43	06	-	-	m 44	s 27	? 44	22	-	-	-	+ 6	-	-	-	m 14	s 11	0
174	5	e 4	40	44	-	-	? 44	50	-	-	-	-	-	-	-	-	-	m 9	s 14	0
175	5	i 15	06	21	e 06	18	i 06	35	06	32	-	-	-	± 19	-	-	-	m 2	s 23	0
176	5	16	-	-	-	-	e 10	18	-	-	-	-	-	-	-	-	-	-	-	0
177	5	17	-	-	-	-	e 01	17	-	-	-	-	-	-	-	-	-	-	-	0
178	6	i 20	48	44	i 48	45	i 49	09	i 49	11	-	-	-	-509	+988	-	-	m 14	s 00	2
179	6	e 21	52	09	e 52	10	52	53	e 52	54	-	-	-	- 26	+ 28	-	-	m 7	s 43	0
180	7	7	36	40	e 36	43	37	52	e 37	52	-	-	-	+ 26	+ 18	-	-	m 7	s 08	0
181	7	e 19	17	23	e 17	23	19	11	19	09	-	-	-	-	-	-	-	m 10	s 44	0
182	8	e 20	06	58	e 06	58	i 07	21	e 07	23	-	-	-	+ 25	- 40	-	-	m 5	s 03	0
183	10	e 5	42	35	e 42	30	e 48	53	48	56	-	-	-	-	-	-	-	m 36	s 48	0
184	13	e 23	25	11	-	-	25	42	-	-	-	-	-	+ 8	-	-	-	m 3	s 37	0
185	14	? 8	44	26	-	-	44	55	e 44	55	-	-	-	+ 7	-	-	-	m 2	s 58	0
186	14	e 10	21	54	-	-	22	12	-	-	-	-	-	-	-	-	-	m 1	s 42	0
187	15	11	51	27	-	-	51	52	-	-	-	-	-	-	-	-	-	m 2	s 13	0
188	15	e 22	41	55	-	-	e 42	21	-	-	-	-	-	-	-	-	-	m 1	s 48	0
189	16	i 13	18	09	i 18	09	i 18	45	i 18	46	-	-	-	-387	-615	-	-	m 7	s 14	0
190	19	9	25	35	-	-	25	59	26	00	-	-	-	+ 45	- 80	-	-	m 5	s 32	0
191	20	i 21	17	22	e 17	21	18	00	e 18	00	-	-	-	-250	-125	-	-	m 5	s 33	0
192	20	e 23	08	50	e 08	52	e 09	27	e 09	32	-	-	-	+ 8	+ 10	-	-	m 5	s 27	0
193	21	20	-	-	? 08	26	-	-	? 18	02	-	-	-	-	-	-	-	m 80	s 14	0
194	21	22	28	23	-	-	28	36	-	-	-	-	-	-	-	-	-	m 1	s 23	0
195	22	e 18	51	37	-	-	51	56	-	-	-	-	-	-	-	-	-	m 1	s 39	0
196	24	14	41	10	-	-	41	29	e 41	31	-	-	-	- 18	- 20	-	-	m 4	s 59	0
197	26	e 18	40	16	-	-	40	41	e 40	40	-	-	-	+ 5	-	-	-	m 3	s 40	0
198	July 3	e 4	02	29	-	-	e 02	50	-	-	-	-	-	-	-	-	-	m 2	s 23	0
199	7	i 7	40	30	40	31	40	54	40	58	-	-	-	- 52	- 55	-	-	m 7	s 10	0
200	7	18	06	41	-	-	06	51	-	-	-	-	-	-	-	-	-	m 1	s 44	0
201	7	19	-	-	-	-	32	36	-	-	-	-	-	-	-	-	-	-	-	0
202	9	23	-	-	-	-	e 14	11	-	-	-	-	-	-	-	-	-	-	-	0
203	10	e 3	57	55	-	-	58	37	-	-	-	-	-	-	-	-	-	m 3	s 27	0
204	10	i 21	32	37	i 32	38	i 33	24	i 33	27	-	-	-	+109	+120	-	-	m 9	s 41	1
205	12	11	53	27	-	-	i 53	44	53	42	-	-	-	- 12	-	-	-	m 3	s 29	0
206	12	14	02	06	-	-	02	16	-	-	-	-	-	+ 9	-	-	-	m 1	s 31	0
207	13	15	08	55	-	-	i 09	11	-	-	-	-	-	- 12	-	-	-	m 2	s 56	0
208	13	e 19	46	57	e 46	58	e 51	03	e 51	02	-	-	-	-	-190	-	-	m 33	s 36	0
209	16	? 8	34	06	e 34	06	e 40	00	? 40	01	-	-	-	-	-	-	-	m 29	s 20	0
210	16	? 15	47	13	-	-	e 47	44	-	-	-	-	-	-	-	-	-	m 2	s 53	0
211	16	17	20	55	-	-	21	18	e 21	16	-	-	-	+ 6	-	-	-	m 3	s 17	0
212	18	21	-	-	-	-	56	34	-	-	-	-	-	-	-	-	-	-	-	0
213	19	e 12	42	35	-	-	42	58	-	-	-	-	-	-	-	-	-	m 2	s 50	0
214	19	19	22	44	22	43	e 24	37	? 24	32	-	-	-	-	-	-	-	m 101	s 42	0
215	19	e 20	23	04	-	-	e 23	57	-	-	-	-	-	- 9	-	-	-	m 6	s 12	0
216	20	e 4	55	09	? 55	09	e 56	00	? 55	59	-	-	-	-	-	-	-	m 12	s 03	0
217	20	10	-	-	-	-	59	31	-	-	-	-	-	-	-	-	-	-	-	0
218	21	e 5	08	43	-	-	09	47	e 09	47	-	-	-	-	-	-	-	-	-	0
219	22	e 3	52	22	? 52	26	? 53	32	? 53	32	-	-	-	- 8	- 45	-	-	m 16	s 37	0
220	23	e 16	52	38	-	-	e 52	59	-	-	-	-	-	+ 10	-	-	-	m 9	s 59	0
																		m 1	s 29	0



EARTHQUAKES, 1944.

No.	Date 1944		P				S				L				Maximum Amplitude				Duration of Total Earthquake	Intensity		
			E	W	N	S	E	W	N	S	E	W	N	S	E	W	N	S				
386	Dec.	28	e 10	13	22	e 13	25	13	56	e 13	53	-	-	-	-	+	11	-	13	6	15	0
387		29	20	03	35	03	38	04	15	04	16	-	-	-	-	-	95	-	75	8	12	0
388		29	e 22	32	01	-	-	e 32	31	-	-	-	-	-	-	-	-	-	-	3	16	0
389		31	e 4	41	50	e 41	41	e 43	55	e 43	51	-	-	-	-	-	-	-	-	13	26	0
390		31	19	50	44	-	-	51	17	-	-	-	-	-	-	-	7	-	-	5	25	0
391		31	21	32	19	-	-	32	53	e 32	52	-	-	-	-	-	13	-	-	6	20	0

PULSATORY OSCILLATIONS, 1944. (EW Component.)



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