

THE ERUPTIONS AND EARTHQUAKES OF THE ASAMA-YAMA. II.

[List of the Volcanic Earthquakes instrumentally registered at the
Asama-yama (Yuno-taira) Observatory in 1911 and 1912.]

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With Plate XXXIX.

The temporary seismographical registration of the Asama-yama volcanic earthquakes made at Ashino-taira in January to March, 1911, was continued in a more permanent form at Yuno-taira between June 25th and Oct. 20th, in 1911, and between May 16th and Oct. 31st, in 1912; the newly established seismological observatory⁽¹⁾ being shut up during the colder months on account of the difficulty of then maintaining the communications with the villages at the mountain base. The approximate positions relative to the centre of the crater mouth of these two places of observation, both situated on the Komoro, or WSW, slope of the mountain, are as follows:—

Place.	Height Difference. ⁽²⁾	Horizontal Distance. ⁽²⁾
Yuno-taira	580 m	2300 m
Ashino-taira	1130	4850

(1) See Fig. 47 and p. 3 of the preceding Number of the *Bulletin*.

(2) Results obtained from triangulations made in 1912.

The Yuno-taira observatory stands at the junction of the Kurofuyama and the Kiba-yama, remnants of the 1st epoch crater ring, being screened from the present Asama-yama cone by the interposition of the Maikake-yama, or the 2nd epoch crater wall.

The seismological instruments set up in the Yuno-taira observatory, in which was provided for the purpose a solid masonry platform 9 feet square in area, were:—(1), a portable horizontal two-component tremor-recorder, similar to that used formerly at Ashino-taira and also on the occasion of the Usu-san eruption in 1910; (2), a single-component horizontal pendulum tromometer suspended from the top of a cast iron pillar about $1\frac{1}{2}$ m. in height, similar to those in use since 1900 at the Seismological Institute⁽¹⁾; (3), a Gray-Ewing type spiral spring vertical motion seismograph adapted to a continuous registration⁽²⁾. The instrumental constants were as follows:—

(1) *Tremor-recorder.* (Plate XXXIX).

Multiplication ratio of each pointer=100.

Weight of each heavy bob=15 kg.

Natural oscillation period of the horizontal pendulums
=about 4 sec.

(2) *Horizontal Tromometer.*

Multiplication ratio of the pointer=150.

Weight of the heavy bob=50 kg.

Natural oscillation ratio of the horizontal pendulum
=15 sec.

(3) *Vertical Motion Seismograph.*

(1) See the *Publications of the Imp. Earthquake Inv. Comm.*, No. 12.

(2) In 1913 was added a Richard barograph adapted to a continuous registration on smoked paper with a quick rate of motion, for the observation of the sound effects of the explosions.

Multiplication ratio of the pointer=50.

Weight of the heavy bob=3 kg.

Natural oscillation period of the pendulum=10 sec.

In each of the instruments the record was taken on the smoked paper, whose rate of motion was usually 1 to 2 cm. per minute, but was on special occasions increased to 5 to 7 cm. per minute. The orientation of the tremor-recorder was such that the two pendulums registered respectively the movements parallel and normal to the line joining the place of observation with the centre of the volcano, or the *apparent longitudinal* and the *apparent transverse*⁽¹⁾ vibrations assumed to proceed from under the crater. The tromometer was set up so as to record the former component wave. The observatory was also fitted with the ordinary meteorological instruments, which were observed thrice each day.

Tables I and II give, for the 955 and 1798 volcanic earthquakes instrumentally observed at Yuno-taira respectively in 1911 and 1912, the date, the time of occurrence, the duration of the preliminary tremor, the total duration, and the maximum horizontal ranges of motion (max. 2a) in the *longitudinal* and *transverse* components. The first 509 earthquakes, namely, those which took place between June 25th and Aug. 27th, in 1911, were observed simply with the tremor-recorder, not in the seismological observatory, but in a neighbouring provisionary building about 230 metres nearer the crater. For the subsequent cases, the elements of motion have been deduced, so far as possible, by taking the means from the records furnished by the two horizontal motion seismographs. The time-keeper at Yuno-taira was a Dent pocket chronometer, whose correction was determined

(1) For the meaning of the *apparent* longitudinal and transverse vibrations, the reader is referred to p. 120 of the preceding Number of the Bulletin.

from time to time by comparison with others brought from Tokyo. The times of occurrence of the earthquakes are to be regarded generally as being only approximate. (In 1913, the determination of the chronometer error was facilitated by the establishment of a telephonic communications between the Yuno-taira observatory and the town of Komoro.) The vertical movements for the different volcanic earthquakes were always very small and are not given in the tables.

The Asama-yama seismic disturbances are divided into two distinct classes, namely:—(A), volcanic earthquakes not directly accompanied by eruption; and (B), volcanic earthquakes, or tremblings of the ground, caused by an eruption. The numbers of the shocks belonging to these two groups are as follows:—

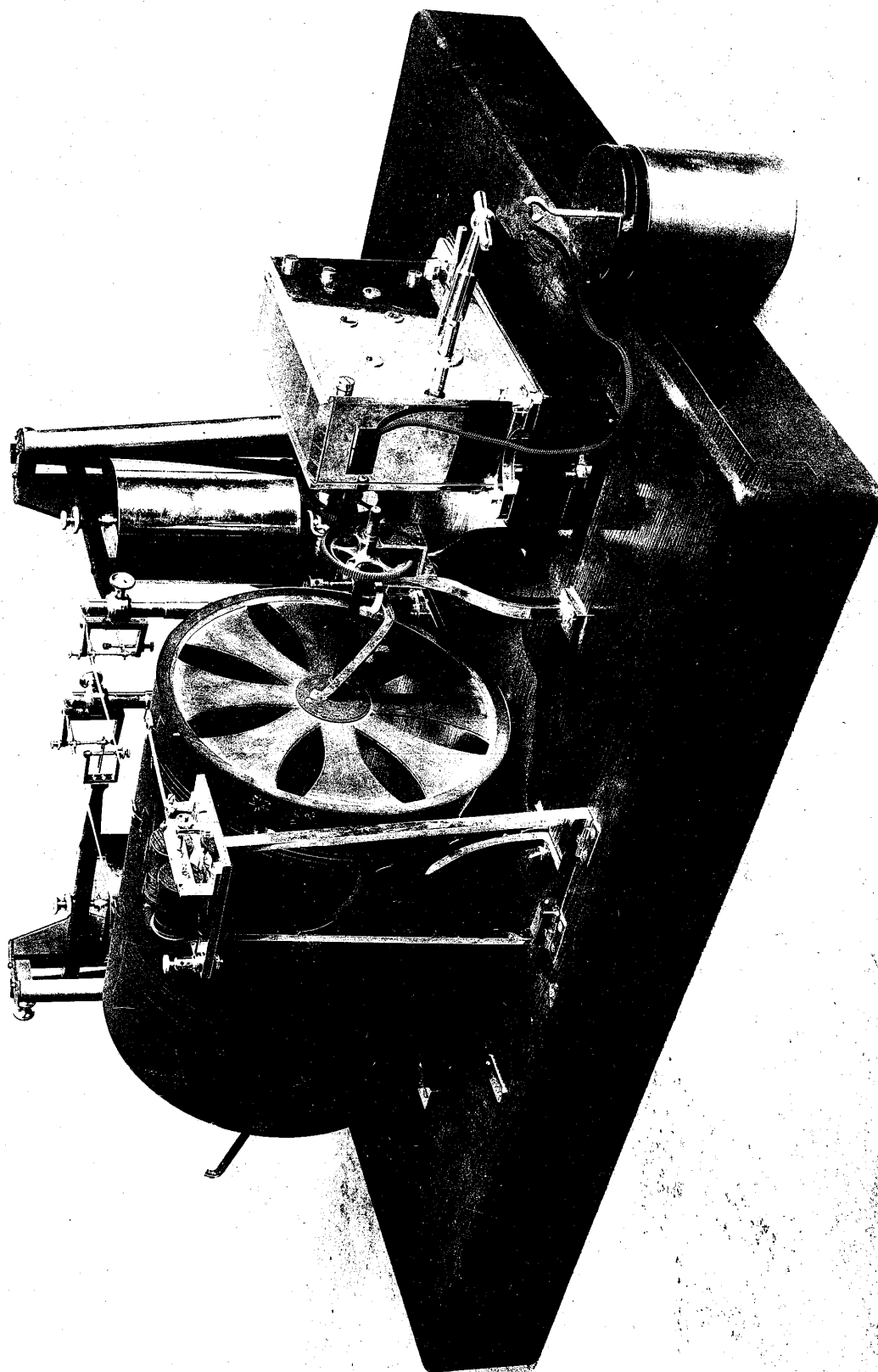
Year.	Group A.	Group B.	Total Number.
1911	378	577	955
1912	687	1,111	1,798

The A group, or non-eruptive, earthquakes consist of quick vibrations and are generally very short in duration; while the B group, or eruptive, earthquakes consist of slow and gentle movements and are comparatively long in duration⁽¹⁾. By means of these characteristics the nature of the disturbances recorded by the seismographs has easily been ascertained. During the time intervals under consideration there was no powerful explosion of the Asama-yama, although there were several strong earthquake shocks of the volcanic origin. All of the (B), as well as the majority of the (A) earthquakes, were insensible movements;

(1) See p. 125, of the preceding Number of the Bulletin.

only those of the latter group marked *sensible* in the tables having been felt at the Yuno-taira observatory.

I must here state my obligations to Messrs J. Nishizawa, J. Kanbayashi, J. Tamra, T. Ushiyama, and M. Kawazoe, of the Nagano Meteorological Observatory, and Messrs T. Kato, T. Toyoda, and H. Krosaka, and Dr. K. Aomi, of the Seismological Institute, who took part in the observations at the Yuno-taira observatory; the four last named gentlemen having also carried through the laborious work of calculating the elements of motion of the numerous earthquakes. My thanks are also due to the President of the International Seismological Association for the interest shown in the investigation of the volcanic earthquakes in Japan.



A Portable Two-component Horizontal Tremor Recorder.

**TABLE I. LIST OF THE 955 VOLCANIC EARTHQUAKES
INSTRUMENTALLY OBSERVED AT THE ASAMA-YAMA
(YUNO-TAIRA) SEISMOLOGICAL OBSERVATORY.
JUNE 25TH TO OCTOBER 20TH, 1911.**

[A]....VOLCANIC EARTHQUAKE NOT ACCOMPANIED BY ERUPTION.

[B]....VOLCANIC EARTHQUAKE CAUSED BY AN ERUPTION.

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
1	25	9 02 39 p.m.	6.3	0.008	0.010	45	B
2	"	11 12 34 "	2.4	0.005	0.005	30	"
3	28	10 50 59 "	6.0	0.017	0.020	50	"
4	29	2 39 58 a.m.	0.7	0.019	0.013	11	A
5	"	9 10 06 "	10.6	0.005	0.007	45	B
6	"	9 11 08 "	—	0.002	0.002	30	"
7	"	10 55 11 "	0.7	0.013	0.015	15	A
8	"	9 49 17 p.m.	1.4	0.002	0.002	30	B
9	"	10 00 16 "	0.5	0.003	0.002	5	"
10	30	1 00 15 a.m.	1.6	0.004	0.006	30	"
11	"	1 02 29 "	1.8	0.004	0.005	20	"
12	"	10 16 44 "	—	0.002	—	7	"
13	"	0 44 31 p.m.	3.0	0.007	0.010	30	"
14	"	0 45 26 "	—	0.011	0.010	30	"
15	JULY 1	5 19 42 a.m.	0.7	0.003	0.007	6	A
16	"	6 28 38 "	1.2	0.008	0.010	40	B
17	"	6 33 14 "	0.7	0.003	0.002	17	A
18	"	7 01 59 "	0.7	0.010	0.008	10	"
19	"	9 01 51 "	0.7	0.003	—	5	"
20	"	11 32 08 "	6.0	0.010	0.014	60	B
21	"	11 50 50 "	0.7	0.002	0.005	5	A
22	"	2 58 21 p.m.	9.0	0.005	0.004	45	B
23	"	6 05 13 "	1.2	0.008	0.008	12	"
24	"	6 05 43 "	1.2	0.006	0.006	35	"
25	2	0 21 11 a.m.	0.7	0.003	0.002	5	A
26	"	0 46 31 "	1.2	0.002	0.002	24	B
27	"	5 09 33 "	1.3	0.015	0.005	40	"
28	"	5 28 11 "	—	0.003	0.005	3	A
29	"	5 34 40 "	0.9	0.002	0.002	9	"
30	"	5 52 54 "	1.1	0.003	0.007	7	B

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
31	2	9 08 57 a.m.	2.3	0.004	0.006	60	B
32	"	9 19 31 "	0.7	0.002	0.002	8	"
33	"	10 32 07 "	0.7	0.001	0.001	3	"
34	"	1 12 17 p.m.	1.1	0.004	0.003	6	"
35	"	1 22 42 "	0.7	0.002	0.002	3	"
36	"	1 28 03 "	—	0.002	—	—	A
37	"	2 18 23 "	3.7	0.015	0.012	40	B
38	"	2 20 21 "	1.1	0.002	0.002	30	A
39	"	3 19 30 "	—	0.002	—	1	"
40	"	4 18 14 "	—	0.003	—	6	"
41	"	4 18 41 "	1.0	0.002	—	3	"
42	"	4 18 50 "	—	0.002	—	2	"
43	"	4 18 56 "	1.1	0.010	0.010	14	"
44	"	5 14 46 "	0.9	0.005	0.002	6	"
45	"	6 03 48 "	0.7	0.010	0.004	5	"
46	"	7 56 44 "	1.1	0.015	0.010	35	B
47	"	8 03 05 "	—	0.002	—	2	A
48	"	10 01 29 "	0.7	0.002	—	4	"
49	"	10 01 42 "	0.9	0.003	—	4	"
50	3	0 37 45 a.m.	3.3	0.002	0.002	22	B
51	"	1 27 00 "	4.1	0.014	0.013	50	"
52	"	5 31 40 "	1.9	0.005	0.004	7	A
53	"	6 34 55 "	1.0	0.003	0.003	15	B
54	"	6 58 40 "	0.7	0.002	—	4	A
55	"	7 24 22 "	2.2	0.005	0.003	35	B
56	"	8 12 23 "	2.2	0.001	—	25	"
57	"	8 53 05 "	2.2	0.009	0.007	90	"
58	"	9 21 31 "	0.9	0.003	—	6	A
59	"	9 35 38 "	1.2	0.002	0.003	5	"
60	"	11 48 49 "	2.2	0.005	0.005	33	B
61	"	11 57 28 "	2.4	0.003	0.003	9	"
62	"	0 20 11 p.m.	0.6	0.007	—	3	A
63	"	0 25 23 "	2.2	0.008	0.008	—	B
64	"	0 25 35 "	2.0	0.008	0.010	16	"
65	"	0 26 11 "	2.2	0.002	—	9	"
66	"	3 15 44 "	3.3	0.010	0.007	60	"
67	"	7 57 35 "	0.0	0.004	0.002	9	A
68	"	9 48 05 "	0.7	0.012	0.012	2	"
69	"	10 18 24 "	1.6	0.015	0.015	18	B
70	4	4 09 33 a.m.	6.0	0.006	0.006	21	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
71	4	6 51 15 a.m.	2.3	0.003	0.003	60	B
72	"	7 25 12 "	—	0.002	—	2	A
73	"	7 39 03 "	1.8	0.001	—	10	"
74	"	8 04 27 "	—	0.006	—	5	"
75	"	10 49 10 p.m.	1.2	0.004	0.003	12	B
76	"	10 54 15 "	2.1	0.004	0.004	20	"
77	"	10 54 44 "	—	0.002	0.002	20	"
78	"	11 00 02 "	1.5	0.003	0.002	17	"
79	6	7 22 24 a.m.	1.2	0.002	—	3	A
80	"	9 05 34 "	1.1	0.023	0.023	35	"
81	"	10 04 45 "	0.7	0.007	—	5	"
82	"	7 23 48 p.m.	2.7	0.006	—	11	B
83	"	8 39 01 "	6.7	0.010	0.013	45	"
84	7	10 17 05 a.m.	7.3	0.011	0.008	45	"
85	"	1 58 52 p.m.	1.7	0.010	0.014	9	A
86	"	4 11 59 "	1.7	0.007	0.006	11	B
87	8	1 32 25 a.m.	5.5	0.007	0.007	60	"
88	"	10 16 04 "	5.5	0.031	0.030	50	"
89	9	6 30 53 "	1.1	0.007	—	9	A
90	"	0 39 31 p.m.	0.6	0.021	0.016	20	"
91	"	2 57 29 "	0.8	0.015	0.015	10	"
92	"	2 57 39 "	—	0.007	—	14	"
93	"	3 06 00 "	—	0.007	0.004	20	"
94	"	3 06 53 "	1.0	0.004	—	10	"
95	"	4 35 26 "	1.4	0.004	0.003	2	"
96	"	6 23 09 "	—	0.010	—	1	"
97	"	9 18 23 "	1.6	0.003	—	7	"
98	10	0 18 03 "	0.7	0.020	0.024	18	"
99	"	4 47 31 "	1.6	0.005	0.005	20	B
100	"	4 48 34 "	1.6	0.005	0.005	2	"
101	11	0 52 03 a.m.	3.3	0.006	0.006	40	"
102	"	6 06 14 "	2.3	0.015	0.020	34	"
103	"	4 43 37 p.m.	6.5	0.007	0.008	60	"
104	"	5 48 04 "	1.7	0.003	0.003	—	"
105	"	5 48 10 "	—	0.002	0.002	—	"
106	"	5 48 12 "	1.1	0.006	0.006	50	"
107	12	6 01 29 a.m.	0.7	0.045	0.030	16	A
108	"	8 31 45 "	0.8	0.004	—	3	"
109	"	8 32 35 "	—	0.003	—	3	"
110	"	0 14 01 p.m.	1.0	0.009	0.007	10	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
111	12	1 35 05 p.m.	—	0.015	—	2	A
112	"	10 12 53 "	3.6	0.004	0.002	6	B
113	13	2 32 10 a.m.	0.9	0.003	0.003	12	A
114	"	2 32 32 "	—	0.006	0.006	10	"
115	"	2 32 55 "	—	0.002	—	8	"
116	"	2 38 20 "	1.7	0.007	0.002	12	"
117	"	2 39 51 "	0.6	0.086	0.070	33	A, sensible
118	"	2 40 48 "	—	0.020	0.020	20	A
119	"	2 44 35 "	—	0.004	0.004	2	"
120	"	10 12 41 p.m.	0.7	0.006	—	7	B
121	14	4 32 26 a.m.	5.5	0.015	0.020	60	"
122	"	5 27 27 "	—	0.002	0.002	180	"
123	"	8 33 23 "	1.5	0.002	0.002	6	A
124	"	0 49 17 p.m.	1.5	0.005	0.002	9	"
125	"	4 10 08 "	0.5	0.008	0.007	10	"
126	"	4 15 59 "	1.4	0.003	0.003	30	B
127	"	10 20 23 "	0.6	0.008	0.006	4	A
128	"	10 25 08 "	0.6	0.006	0.002	4	"
129	15	3 03 49 a.m.	0.7	0.012	0.008	23	"
130	"	3 09 16 "	0.7	0.015	0.015	35	"
131	"	9 40 48 "	0.6	0.003	0.001	4	"
132	16	4 31 00 "	—	0.037	0.045	6	"
133	"	4 31 08 "	—	0.015	0.015	6	"
134	"	4 31 15 "	—	0.005	0.017	6	"
135	"	5 51 22 p.m.	—	0.009	0.003	8	B
136	"	6 14 08 "	0.6	0.006	0.003	3	A
137	"	6 46 16 "	0.6	0.007	0.007	3	"
138	"	7 16 57 "	1.5	0.003	0.003	17	B
139	"	7 17 23 "	—	0.002	0.002	15	"
140	"	7 17 50 "	—	0.002	0.002	15	"
141	"	7 18 16 "	—	0.002	0.002	9	"
142	"	7 18 29 "	—	0.002	0.002	9	"
143	"	7 18 44 "	—	0.002	0.002	10	"
144	"	7 18 59 "	—	0.001	0.001	20	"
145	"	7 31 16 "	0.9	0.007	0.005	6	A
146	"	10 55 02 "	—	0.002	0.002	—	B
147	"	10 55 36 "	—	0.002	0.002	35	"
148	17	1 26 41 a.m.	—	0.003	0.003	60	"
149	"	3 17 32 p.m.	1.8	0.008	0.006	20	"
150	"	3 17 59 "	—	0.002	0.002	20	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
151	17	3 18 20 p.m.	—	0.003	0.003	30	B
152	"	3 19 00 "	2.0	0.009	0.005	25	"
153	"	3 19 26 "	—	0.007	0.003	15	"
154	"	3 19 43 "	—	0.003	0.003	25	"
155	"	3 20 27 "	1.6	0.005	0.003	12	"
156	"	3 20 39 "	1.8	0.006	0.003	20	"
157	"	3 21 00 "	1.8	0.004	0.002	14	"
158	"	3 21 25 "	1.8	0.004	0.003	20	"
159	"	10 36 29 "	—	0.002	0.002	50	"
160	"	10 37 38 "	—	0.003	0.003	30	"
161	"	11 42 10 "	0.7	0.007	0.007	15	A
162	18	10 14 09 a.m.	0.8	0.026	0.017	8	"
163	"	11 58 42 "	2.3	0.008	0.005	40	B
164	"	11 59 24 "	—	0.007	0.007	60	"
165	"	0 25 35 p.m.	—	0.004	0.002	15	A
166	"	2 23 40 "	0.7	0.026	0.023	11	"
167	"	3 18 35 "	0.7	0.026	0.015	15	"
168	"	6 26 18 "	2.6	0.003	0.003	20	B
169	"	6 26 44 "	—	0.002	0.002	40	"
170	"	9 15 13 "	3.7	0.006	0.004	45	"
171	19	1 24 34 a.m.	0.7	0.004	0.006	9	A
172	"	2 20 43 "	0.7	0.007	—	7	"
173	"	5 26 18 p.m.	2.2	0.002	—	15	B
174	"	5 26 38 "	2.2	0.002	0.002	20	"
175	"	5 26 59 "	—	0.002	0.002	20	"
176	"	5 27 24 "	—	0.002	0.002	20	"
177	"	5 27 52 "	2.2	0.002	0.002	20	"
178	"	5 29 09 "	0.6	0.003	0.003	3	A
179	20	1 21 59 a.m.	0.7	0.011	0.011	15	"
180	"	6 40 45 "	2.1	0.002	0.002	40	B
181	"	6 51 28 "	—	0.002	0.002	—	"
182	"	6 52 26 "	2.2	0.002	0.002	60	"
183	"	6 53 44 "	2.3	0.003	0.003	25	"
184	"	6 54 11 "	2.9	0.002	0.002	33	"
185	"	6 55 23 "	—	0.002	0.002	20	"
186	"	6 55 50 "	—	0.003	0.003	18	"
187	"	6 56 08 "	—	0.002	0.002	10	"
188	"	6 56 19 "	2.2	0.003	0.003	20	"
189	"	9 22 08 "	4.4	0.030	0.030	80	"
190	"	11 47 05 "	—	0.004	0.005	60	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
191	20	0 39 53 p.m.	2.2	0.002	0.002	20	B
192	"	2 50 19 "	2.3	0.002	0.002	20	"
193	"	5 42 13 "	5.5	0.003	0.003	60	"
194	"	10 36 12 "	2.2	0.012	0.010	30	"
195	21	1 08 29 a.m.	2.1	0.005	0.004	120	"
196	"	3 01 22 "	2.2	0.006	0.006	40	"
197	"	3 02 21 "	—	0.002	0.002	30	"
198	"	6 23 07 "	2.3	0.004	0.003	46	"
199	"	6 25 39 "	—	0.002	0.002	60	"
200	"	10 46 20 "	4.2	0.007	0.006	30	"
201	"	4 24 11 p.m.	2.5	0.015	0.015	50	"
202	"	4 37 49 "	4.2	0.012	0.012	50	"
203	"	10 47 40 "	2.3	0.023	0.016	35	"
204	22	0 29 34 a.m.	0.6	0.012	0.020	15	A
205	"	0 35 08 "	0.6	0.007	0.007	6	"
206	"	3 33 16 "	0.6	0.006	0.004	12	"
207	"	3 33 30 "	0.6	0.004	0.002	12	"
208	"	4 07 49 "	10.4	0.006	0.007	30	B
209	"	10 16 53 "	6.5	0.007	0.008	45	"
210	"	1 39 55 p.m.	1.1	0.006	0.003	9	A
211	"	2 08 09 "	—	0.003	0.003	40	B
212	"	3 39 10 "	1.5	0.040	0.040	15	A, sensible
213	"	4 32 09 "	0.8	0.032	0.024	40	A
214	"	5 47 53 "	2.2	0.016	0.015	40	B
215	23	9 36 53 a.m.	1.6	0.011	0.011	18	"
216	"	3 02 46 p.m.	2.1	0.008	0.006	20	"
217	"	3 03 21 "	2.1	0.006	0.006	30	"
218	"	3 04 41 "	2.3	0.005	0.003	20	"
219	"	6 03 35 "	0.7	0.008	0.005	7	A
220	24	5 56 44 a.m.	0.7	1.000	0.760	60	A, sensible
221	"	5 58 02 "	—	0.020	0.012	7	A
222	"	5 58 52 "	1.7	0.013	0.012	5	"
223	"	6 00 54 "	0.7	0.005	0.003	8	"
224	"	6 01 41 "	0.7	0.009	0.009	12	"
225	"	6 02 05 "	0.7	0.015	0.014	20	"
226	"	9 02 07 "	0.7	0.065	0.061	24	A, sensible
227	"	9 11 49 "	—	—	1.450	150	" "
228	"	9 15 39 "	0.7	0.084	0.077	30	" "
229	"	9 16 19 "	1.1	0.033	0.030	22	" "
230	"	9 18 24 "	2.8	0.012	0.007	13	A

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
231	24	9 18 58 a.m.	0.7	0.006	0.002	6	A
232	"	9 19 51 "	0.8	0.003	0.003	5	B
233	"	9 20 17 "	0.8	0.002	—	6	"
234	"	9 20 49 "	0.8	0.002	0.001	6	"
235	"	9 21 17 "	0.8	0.002	0.001	6	"
236	"	9 21 43 "	0.8	0.005	0.003	6	"
237	"	9 21 56 "	—	0.005	0.002	9	"
238	"	9 22 35 "	—	0.007	0.005	9	"
239	"	9 23 38 "	—	0.001	0.001	6	"
240	"	9 26 49 "	0.8	0.006	0.004	12	"
241	"	9 33 32 "	0.6	0.008	0.003	6	"
242	"	10 01 19 "	0.7	0.025	0.025	45	A
243	"	10 05 16 "	0.9	0.007	0.005	7	B
244	"	10 06 57 "	0.9	0.006	0.003	7	"
245	"	10 13 51 "	0.9	0.008	0.005	11	"
246	"	10 35 42 "	1.1	0.003	0.002	11	A
247	"	10 51 50 "	0.7	0.007	0.007	7	"
248	"	10 53 25 "	0.6	0.007	—	7	"
249	"	11 13 04 "	0.7	0.008	0.002	12	"
250	"	11 31 46 "	0.7	0.015	0.005	11	"
251	"	0 12 17 p.m.	0.0	0.080	0.085	23	A, sensible
252	"	0 12 22 "	—	0.020	0.015	—	A
253	"	0 12 27 "	—	0.012	0.012	7	"
254	"	0 39 23 "	0.7	0.003	0.003	7	"
255	"	3 16 20 "	0.7	0.003	0.002	6	"
256	"	3 55 47 "	0.7	0.020	0.020	12	"
257	"	5 05 30 "	0.7	0.009	0.009	11	"
258	"	9 36 20 "	0.7	0.003	0.002	7	B
259	"	10 00 39 "	0.6	0.002	0.002	4	"
260	25	1 02 12 a.m.	0.7	0.003	0.003	12	"
261	"	2 15 28 "	0.6	0.002	—	5	"
262	"	5 32 22 "	1.9	0.005	0.002	15	"
263	"	7 02 57 "	0.2	0.009	0.005	12	A
264	"	7 43 12 "	0.7	0.010	0.010	11	"
265	"	7 47 47 "	0.6	0.007	—	7	B
266	"	0 54 43 p.m.	0.9	0.010	—	12	A
267	"	9 26 27 "	0.6	0.020	0.020	12	"
268	"	9 28 03 "	0.6	0.018	0.016	9	"
269	"	11 34 30 "	0.6	0.008	0.006	9	"
270	"	11 35 49 "	0.6	0.012	0.010	9	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
271	26	7 32 49 a.m.	1.2	0.022	0.040	9	A
272	"	11 47 04 "	6.0	0.034	0.017	18	"
273	27	0 39 58 "	7.0	0.018	0.015	35	"
274	"	0 58 17 "	—	0.005	0.004	35	"
275	"	4 18 17 p.m.	—	0.020	—	35	B
276	"	4 19 12 "	—	0.007	—	31	"
277	28	4 41 30 a.m.	1.2	0.004	0.004	35	"
278	"	6 22 27 p.m.	0.6	0.008	—	5	A
279	29	5 20 15 a.m.	—	0.007	0.005	49	B
280	"	5 21 04 "	—	0.007	0.005	30	"
281	"	5 22 12 "	1.2	0.002	0.002	16	"
282	"	5 22 32 "	1.2	0.002	0.002	12	"
283	"	5 23 00 "	1.2	0.002	0.002	20	"
284	"	5 33 46 "	0.6	0.017	0.017	23	A
285	"	8 27 30 "	0.7	0.009	0.008	11	"
286	"	5 51 02 p.m.	0.5	0.008	0.011	12	"
287	30	8 55 06 a.m.	0.6	0.030	0.025	15	A, sensible
288	"	8 55 31 "	—	0.003	0.005	3	A
289	"	1 42 00 p.m.	0.6	0.010	0.003	5	"
290	31	11 01 21 a.m.	0.6	0.013	0.010	23	"
291	"	1 44 58 p.m.	2.8	0.003	0.003	23	B
292	"	1 45 21 "	—	0.002	0.002	20	"
293	"	1 46 00 "	—	0.002	0.002	35	"
294	"	10 01 40 "	—	0.003	0.003	120	"
295	AUGUST 1	4 26 17 "	1.4	0.010	0.005	5	A
296	"	4 26 25 "	1.5	0.010	0.010	7	"
297	"	5 02 00 "	3.5	0.015	0.017	75	B
298	"	5 03 15 "	3.6	0.010	0.010	29	"
299	"	5 05 12 "	3.1	0.003	0.003	44	"
300	"	10 11 03 "	6.0	0.003	0.003	17	"
301	"	10 11 20 "	3.3	0.003	0.004	16	"
302	"	10 11 36 "	2.2	0.002	0.002	10	"
303	"	10 11 48 "	8.5	0.008	0.010	34	"
304	"	10 12 22 "	6.7	0.005	0.004	31	"
305	"	10 12 54 "	9.0	0.005	0.003	56	"
306	"	10 13 55 "	3.3	0.003	0.003	8	"
307	"	10 14 03 "	2.2	0.005	0.004	19	"
308	"	10 14 22 "	3.3	0.004	0.004	15	"
309	"	10 15 20 "	5.1	0.005	0.005	35	"
310	"	10 18 03 "	4.6	0.003	0.003	17	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
311	1	10 18 20 p.m.	5.0	0.002	0.002	21	B
312	"	10 18 46 "	6.0	0.003	0.003	37	"
313	"	10 19 24 "	3.5	0.002	0.002	15	"
314	"	10 20 36 "	6.7	0.003	0.003	18	"
315	2	0 42 46 a.m.	1.0	0.007	0.005	8	A
316	"	6 10 57 "	0.5	0.003	0.005	27	B
317	"	6 40 55 "	0.5	0.007	0.007	10	A
318	"	0 01 35 p.m.	3.4	0.003	0.005	20	B
319	"	0 01 55 "	4.5	0.003	0.003	22	"
320	"	0 02 20 "	3.8	0.006	0.003	18	"
321	"	0 02 59 "	4.5	0.005	0.005	—	"
322	"	0 03 23 "	—	0.005	0.003	36	"
323	"	1 41 45 "	1.2	0.010	0.007	21	A
324	"	1 54 33 "	1.1	0.010	0.015	18	"
325	3	3 50 32 a.m.	4.4	0.015	0.010	40	B
326	"	7 44 03 p.m.	1.5	0.040	0.040	62	A
327	"	8 02 17 "	4.0	0.005	0.005	31	B
328	4	1 28 09 a.m.	10.2	0.010	0.010	41	"
329	"	1 28 53 "	3.5	0.003	0.002	—	"
330	"	1 29 09 "	7.0	0.005	0.003	27	"
331	"	1 29 36 "	7.0	0.003	0.003	14	"
332	"	1 29 50 "	3.0	0.003	0.003	13	"
333	"	1 30 04 "	4.7	0.003	0.003	21	"
334	"	1 30 25 "	3.5	0.003	0.003	18	"
335	"	2 18 06 "	1.7	0.003	0.002	32	"
336	"	5 53 54 "	9.2	0.030	0.025	39	"
337	"	9 05 34 "	3.4	0.007	0.010	27	"
338	"	9 44 28 "	1.1	0.016	0.013	12	A
339	"	9 47 26 "	1.6	0.015	0.012	15	"
340	"	10 28 32 "	0.6	0.010	0.003	5	"
341	"	10 28 44 "	0.3	0.023	0.020	7	"
342	"	11 56 58 "	2.2	0.003	0.005	52	B
343	"	2 05 03 p.m.	9.0	0.005	0.005	31	"
344	"	5 00 45 "	6.5	0.005	0.005	36	"
345	"	8 59 30 "	2.2	0.013	0.015	105	"
346	"	10 10 08 "	4.5	0.007	0.007	69	"
347	5	1 54 00 a.m.	5.4	0.005	—	84	"
348	"	6 32 09 "	2.2	0.006	0.010	76	"
349	"	6 55 51 "	4.0	0.010	0.008	33	"
350	"	10 29 58 p.m.	2.4	0.003	0.002	21	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
351	6	6 45 04 a.m.	2.2	0.003	0.005	15	B
352	"	8 16 12 "	2.9	0.010	0.010	40	"
353	"	9 21 18 "	1.8	0.012	0.010	26	A
354	"	1 22 24 p.m.	0.7	0.005	0.005	4	"
355	"	5 43 40 "	0.6	0.005	0.002	1.2	"
356	"	5 44 13 "	1.1	0.007	0.005	15	"
357	"	6 32 19 "	0.8	0.060	0.100	55	A, sensible
358	"	6 33 15 "	0.8	0.040	0.027	25	" "
359	"	8 32 25 "	0.7	0.040	0.030	35	" "
360	"	9 51 06 "	4.4	0.005	0.003	11	B
361	8	1 40 46 a.m.	1.6	0.002	0.002	33	"
362	"	4 26 53 "	2.4	0.012	—	15	A
363	"	5 56 19 "	0.0	0.340	—	68	A, sensible
364	"	6 07 37 "	0.6	0.005	—	10	A
365	"	6 26 54 "	1.2	0.007	—	10	"
366	"	7 37 25 "	1.4	0.008	—	18	"
367	"	9 49 57 "	1.1	0.008	0.005	15	"
368	"	2 52 30 p.m.	1.1	0.005	0.003	18	B
369	"	10 14 07 "	1.1	0.005	0.003	7	"
370	9	0 35 21 "	0.8	0.009	0.008	61	"
371	"	1 59 34 "	0.8	0.007	0.003	9	A
372	"	2 00 59 "	0.9	0.007	0.004	56	B
373	10	11 46 17 "	1.3	0.001	0.001	40	"
374	14	0 11 37 "	2.5	0.005	0.005	86	"
375	15	4 42 50 a.m.	2.8	0.025	—	90	"
376	"	6 25 00 "	2.1	0.007	0.008	30	"
377	"	9 24 25 "	2.5	0.005	0.011	35	"
378	"	10 39 27 "	2.6	0.008	0.007	35	"
379	"	4 50 12 p.m.	2.6	0.005	0.010	15	"
380	"	4 50 32 "	—	0.003	0.003	15	"
381	"	4 50 51 "	—	0.005	0.010	15	"
382	"	4 51 07 "	2.3	0.003	0.004	18	"
383	"	4 51 29 "	—	0.002	—	18	"
384	16	2 43 04 a.m.	4.0	0.007	0.013	58	"
385	"	7 11 49 p.m.	—	0.006	0.006	57	"
386	"	10 19 16 "	1.3	0.007	0.005	8	A
387	17	5 33 42 a.m.	4.5	0.010	0.010	38	B
388	"	3 40 40 p.m.	1.1	0.025	0.030	12	A
389	18	2 05 22 a.m.	5.0	0.008	0.010	32	B
390	"	2 06 54 "	—	0.003	—	31	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
391	18	2 07 55 a.m.	—	0.003	—	57	B
392	"	2 09 06 "	—	0.002	—	21	"
393	"	0 34 01 p.m.	2.3	0.007	0.007	55	"
394	"	0 35 06 "	3.6	0.008	0.005	30	"
395	"	1 43 13 "	1.8	0.010	0.013	17	"
396	"	1 45 46 "	0.6	0.033	0.035	25	A
397	"	1 48 08 "	1.2	0.012	0.010	17	"
398	"	4 09 22 "	2.3	0.003	0.006	39	B
399	"	4 10 32 "	2.4	0.002	0.001	26	"
400	"	4 39 59 "	3.0	0.002	0.002	43	"
401	"	4 40 48 "	—	0.005	0.003	62	"
402	"	4 59 45 "	0.9	0.012	0.017	18	A
403	"	5 16 10 "	2.3	0.010	0.008	39	B
404	"	6 15 31 "	2.9	0.010	0.007	—	"
405	"	7 11 59 "	2.9	0.007	—	—	"
406	"	8 47 48 "	6.0	0.008	0.007	33	"
407	"	8 48 21 "	3.0	0.002	—	22	"
408	"	8 48 43 "	2.4	0.002	—	32	"
409	"	8 49 15 "	—	0.003	—	69	"
410	"	8 50 24 "	3.0	0.002	—	25	"
411	"	11 36 19 "	2.5	0.003	—	11	"
412	"	11 36 30 "	1.9	0.002	—	16	"
413	"	11 36 46 "	1.9	0.005	0.007	21	"
414	19	2 40 17 a.m.	3.1	0.005	0.004	55	"
415	"	2 44 26 "	3.7	0.004	0.003	34	"
416	"	3 40 58 "	3.7	0.010	0.008	37	"
417	"	3 45 52 "	1.2	0.007	0.005	18	A
418	"	6 00 23 "	2.5	0.010	0.007	31	B
419	"	6 43 10 "	3.7	0.013	0.009	40	"
420	"	6 44 40 "	—	0.005	—	36	"
421	"	9 13 02 "	2.6	0.013	0.016	34	"
422	"	10 26 18 "	5.2	0.015	0.009	39	"
423	"	10 57 32 "	0.7	0.007	0.004	15	"
424	"	10 57 47 "	1.2	0.030	0.036	44	A
425	"	10 59 04 "	1.2	0.017	0.015	29	"
426	"	11 54 53 "	2.0	0.004	0.004	20	B
427	"	11 58 16 "	2.1	0.005	0.006	32	"
428	"	0 02 25 p.m.	2.1	0.006	0.010	29	"
429	"	0 05 24 "	6.2	0.025	0.027	42	"
430	"	0 07 04 "	5.0	0.003	0.003	25	"

No.	Date. (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
431	19	1 05 37 p.m.	5.1	0.013	0.013	42	B
432	"	1 18 08 "	5.0	0.008	0.006	43	"
433	"	1 55 02 "	5.5	0.007	0.005	38	"
434	"	2 10 40 "	3.8	0.002	0.002	22	"
435	"	2 23 51 "	2.0	0.002	0.003	27	"
436	"	2 26 30 "	1.7	0.008	0.004	27	"
437	"	2 27 44 "	2.4	0.004	0.003	17	"
438	"	2 43 44 "	2.0	0.012	0.017	30	"
439	"	2 44 47 "	1.7	0.007	0.009	42	"
440	"	3 37 20 "	4.2	0.012	0.017	47	"
441	"	6 58 11 "	4.7	0.017	0.013	44	"
442	"	9 19 32 "	6.2	0.039	0.023	47	"
443	"	11 35 00 "	6.3	0.006	0.005	100	"
444	20	0 35 32 a.m.	1.7	0.013	0.017	60	"
445	"	3 38 59 "	5.8	0.019	0.019	37	"
446	"	3 39 39 "	4.6	0.003	0.003	41	"
447	"	9 24 08 "	1.6	0.007	0.007	47	"
448	"	6 07 04 p.m.	2.3	0.009	0.007	40	"
449	"	9 24 01 "	1.8	0.011	0.005	60	"
450	21	4 07 18 a.m.	1.8	0.006	0.007	70	"
451	"	6 42 55 p.m.	1.9	0.003	0.003	24	"
452	"	7 36 26 "	2.9	0.009	0.008	55	"
453	"	9 59 48 "	1.3	0.004	0.004	32	"
454	"	11 42 50 "	1.8	0.005	0.005	40	"
455	22	3 32 22 a.m.	2.4	0.007	0.008	33	"
456	"	5 01 35 "	1.8	0.005	0.005	38	"
457	"	8 24 54 "	3.0	0.005	0.005	28	"
458	"	9 28 59 "	12.7	0.037	0.018	81	"
459	"	10 38 42 "	6.0	0.030	0.016	87	"
460	"	0 47 51 p.m.	3.5	0.017	0.022	75	"
461	"	1 27 03 "	3.3	0.020	0.010	48	"
462	"	2 33 35 "	6.7	0.032	0.028	70	"
463	"	3 25 31 "	6.0	0.004	0.003	29	"
464	"	4 11 41 "	11.0	0.004	0.003	70	"
465	"	4 43 04 "	3.5	0.007	0.004	15	"
466	"	7 01 08 "	2.5	0.005	0.004	38	"
467	"	7 08 23 "	2.7	0.008	0.005	39	"
468	"	8 22 24 "	1.0	0.015	0.013	43	"
469	"	9 47 41 "	1.5	0.027	0.026	75	"
470	"	9 49 08 "	1.3	0.003	0.003	20	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
471	22	9 55 08 p.m.	1.7	0.003	0.002	20	B
472	"	10 23 29 "	1.5	0.003	0.003	27	"
473	"	10 27 23 "	1.5	0.003	0.003	20	"
474	"	10 30 00 "	1.7	0.009	0.007	38	"
475	23	0 27 48 a.m.	1.8	0.002	0.001	18	"
476	"	0 32 48 "	1.0	0.003	0.002	12	"
477	"	0 37 41 "	1.8	0.002	0.001	22	"
478	"	0 40 13 "	2.0	0.003	0.003	20	"
479	"	1 17 25 "	3.7	0.013	0.010	35	"
480	"	1 21 53 "	3.0	0.002	0.001	20	"
481	"	1 22 23 "	3.0	0.010	0.015	33	"
482	"	1 24 39 "	2.0	0.003	0.004	20	"
483	"	1 25 04 "	—	0.002	0.001	13	"
484	"	1 26 39 "	—	0.002	0.001	28	"
485	"	1 27 33 "	—	0.002	0.001	13	"
486	"	1 27 56 "	—	0.002	0.001	20	"
487	"	1 52 32 "	1.0	0.008	0.008	47	"
488	"	2 08 07 "	1.3	0.002	0.002	29	"
489	"	2 19 59 "	1.5	0.002	0.002	17	"
490	"	2 20 18 "	1.5	0.009	0.006	30	"
491	"	2 39 45 "	1.4	0.014	0.013	41	"
492	"	2 42 53 "	1.3	0.003	0.003	20	"
493	"	3 35 31 "	1.6	0.007	0.008	36	"
494	"	4 14 22 "	1.5	0.015	0.007	47	"
495	"	4 19 11 "	1.5	0.002	0.001	24	"
496	"	6 42 43 "	1.7	0.009	0.007	39	"
497	"	2 43 57 p.m.	1.7	0.010	0.009	62	"
498	25	1 16 48 a.m.	—	0.003	0.003	43	"
499	"	4 49 35 "	3.7	0.005	0.004	43	"
500	"	0 07 48 p.m.	2.6	0.006	0.006	73	"
501	26	1 56 43 a.m.	1.3	0.003	0.003	39	"
502	"	4 27 15 "	0.5	0.005	0.006	13	A
503	"	1 28 22 p.m.	0.7	0.005	0.003	29	B
504	"	1 39 46 "	0.8	0.003	0.004	19	"
505	27	0 30 03 a.m.	0.8	0.004	0.004	20	"
506	"	0 35 35 "	—	0.001	0.002	11	"
507	"	1 36 43 "	1.4	0.007	0.010	60	"
508	"	3 51 26 "	—	0.003	—	60	"
509	"	7 29 37 "	0.5	0.012	0.013	25	A
510	28	1 55 58 "	0.0	0.014	—	5	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
511	28	4 13 46 a.m.	0.0	0.010	—	5	A
512	"	4 18 53 "	—	0.003	—	48	B
513	"	6 03 17 "	1.0	0.004	—	14	"
514	"	7 40 58 "	—	0.002	—	30	"
515	"	7 41 42 "	—	0.003	—	120	"
516	29	10 41 20 "	1.1	0.004	—	23	"
517	"	10 41 47 "	—	0.003	—	23	"
518	"	4 09 09 p.m.	—	0.005	—	62	"
519	"	5 20 05 "	0.4	0.012	0.006	8	A
520	"	6 04 51 "	—	0.002	—	35	B
521	"	8 35 55 "	2.8	0.007	0.003	62	"
522	"	9 26 50 "	1.1	0.004	0.006	67	"
523	"	11 35 39 "	3.0	0.002	—	42	"
524	30	7 22 27 a.m.	—	0.009	—	92	"
525	"	7 45 37 "	—	0.002	0.002	50	"
526	"	11 04 43 "	—	0.003	—	32	"
527	"	0 16 15 p.m.	—	0.001	—	29	"
528	"	0 43 51 "	—	0.001	—	39	"
529	"	0 52 11 "	3.3	0.002	—	37	"
530	"	0 54 22 "	2.2	0.002	—	55	"
531	"	2 40 40 "	3.1	0.003	0.002	70	"
532	"	7 59 43 "	—	0.002	—	32	"
533	31	1 15 02 a.m.	—	0.001	—	9	"
534	"	1 23 21 "	2.9	0.002	—	38	"
535	"	3 21 14 "	2.2	0.004	0.005	44	"
536	"	4 58 40 "	—	0.002	—	19	"
537	"	5 46 05 "	2.7	0.004	0.002	70	"
538	SEPTer, 1	5 58 30 "	2.3	0.002	—	30	"
539	"	8 29 31 "	0.0	0.001	0.006	2	A
540	"	8 30 04 "	0.0	0.002	0.006	2	"
541	"	8 30 16 "	0.0	0.008	0.012	2	"
542	"	8 31 03 "	0.0	0.007	0.015	2	"
543	"	8 33 30 "	0.0	0.009	0.014	2	"
544	"	8 37 58 "	0.0	0.019	0.043	5	"
545	"	10 43 37 p.m.	—	0.002	—	21	B
546	4	8 06 52 a.m.	0.0	0.200	—	80	A, sensible
547	5	5 20 11 "	0.0	0.064	0.044	32	"
548	"	9 47 33 p.m.	1.6	0.002	—	30	B
549	"	11 29 18 "	0.5	0.004	—	8	"
550	6	0 31 07 a.m.	1.5	0.009	0.005	48	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
551	6	0 39 43 a.m.	0.6	0.014	0.013	18	B
552	"	4 29 34 "	2.5	0.002	—	30	"
553	"	7 43 40 "	0.4	0.010	0.005	37	"
554	"	7 44 31 "	1.0	0.021	0.013	75	"
555	"	7 48 53 "	0.8	0.022	0.016	78	"
556	"	7 54 04 "	0.5	0.035	0.015	78	"
557	"	7 54 31 "	1.0	0.003	0.001	16	"
558	"	7 59 57 "	0.8	0.005	0.002	30	"
559	"	8 48 57 "	1.1	0.030	0.013	50	A
560	"	9 42 56 "	2.0	0.006	0.002	—	B
561	"	10 49 06 "	1.6	0.005	0.026	100	A
562	"	10 59 34 "	1.4	0.003	—	34	B
563	"	3 05 06 p.m.	1.4	0.015	0.013	34	A
564	"	10 54 33 "	—	0.004	0.002	69	B
565	7	1 36 25 a.m.	3.0	0.003	—	65	"
566	"	6 54 56 "	2.3	0.005	0.004	60	"
567	"	10 11 42 "	0.7	0.031	0.015	3	A
568	"	10 11 45 "	0.6	0.013	0.006	2	"
569	"	10 11 49 "	2.0	0.003	0.002	18	B
570	"	2 40 12 p.m.	2.0	0.003	0.002	58	"
571	"	4 39 25 "	2.5	0.003	—	50	"
572	"	7 25 44 "	2.5	0.004	—	55	"
573	8	4 38 56 "	—	0.001	—	27	"
574	"	8 48 26 "	3.3	0.002	—	65	"
575	"	10 16 26 "	3.3	0.002	—	50	"
576	9	1 35 20 a.m.	2.7	0.003	—	52	"
577	"	2 05 42 "	3.0	0.002	—	52	"
578	"	4 30 50 "	2.3	0.001	—	38	"
579	"	4 54 23 "	—	0.002	—	60	"
580	"	11 49 21 "	2.1	0.006	0.003	38	"
581	"	11 49 59 "	2.5	0.003	0.002	53	"
582	"	9 12 33 p.m.	0.6	0.016	0.012	5	A
583	"	9 13 40 "	—	0.003	0.002	21	B
584	10	2 54 24 a.m.	1.9	0.012	0.005	19	A
585	"	11 45 29 "	2.5	0.001	—	43	B
586	"	1 40 23 p.m.	0.9	0.007	0.007	35	A
587	"	4 01 54 "	0.0	0.044	0.032	5	"
588	11	2 26 58 a.m.	2.4	0.002	—	25	B
589	"	3 37 41 "	1.7	0.003	—	24	"
590	"	3 38 10 "	1.7	0.002	—	24	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
591	11	6 02 52 a.m.	2.9	0.001	—	24	B
*	"	8 43 08 "	—	0.044	0.035	141	—
592	12	4 18 10 p.m.	0.7	0.013	0.010	11	A
593	13	2 48 37 "	0.0	0.007	—	5	"
594	"	8 43 09 "	0.0	0.123	0.090	10	"
595	14	9 25 42 a.m.	2.4	0.007	0.006	17	"
596	"	4 12 11 p.m.	1.3	0.021	0.016	18	"
597	"	6 25 51 "	0.8	0.004	—	7	"
598	"	6 58 04 "	2.5	0.003	—	46	B
599	"	7 43 50 "	1.7	0.007	0.002	20	A
600	"	8 42 36 "	2.0	0.007	0.011	20	"
601	"	9 25 30 "	1.6	0.011	0.006	21	"
602	"	9 59 15 "	2.2	0.003	—	40	B
603	15	7 41 38 a.m.	2.6	0.002	—	35	A
604	16	5 59 05 p.m.	0.8	0.018	0.007	26	"
605	17	0 31 06 a.m.	0.6	0.013	—	10	"
606	"	1 17 53 "	0.9	0.013	0.008	11	"
607	"	8 38 44 p.m.	1.3	0.030	0.045	55	"
608	18	4 19 36 a.m.	0.0	0.054	0.056	55	"
609	"	4 27 06 "	0.0	0.017	0.010	12	"
610	"	5 40 59 "	0.8	0.015	0.010	13	"
611	"	5 44 35 "	0.8	0.049	0.036	32	"
612	"	6 06 09 "	0.5	0.008	0.006	5	"
613	"	6 23 22 "	0.7	0.023	0.029	28	"
614	"	10 59 04 "	0.6	0.016	0.016	37	"
615	"	4 57 34 p.m.	3.1	0.002	—	34	B
616	"	6 12 36 "	1.1	0.008	0.006	22	A
617	19	3 02 54 a.m.	0.0	0.008	0.005	21	"
618	"	4 50 03 "	0.5	0.005	0.003	13	"
619	"	6 11 32 "	—	0.001	—	18	B
620	"	6 16 12 "	—	0.001	—	23	"
621	"	7 44 21 "	—	0.001	—	20	"
622	"	3 06 45 p.m.	1.9	0.002	—	18	"
623	21	5 46 27 a.m.	0.5	0.021	0.010	20	A
624	"	6 56 19 "	0.5	0.006	0.004	9	"
625	"	6 56 28 "	0.5	0.024	0.015		"

* Disturbance caused by the rolling of stone fragments down the inner slope of the Kurofuyama at a place called the "Tomi-no-Kuchi," at an elevation of 270 metres above, and at a direct distance of 550 metres to the WNW of, the observatory.

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
626	21	6 56 30 a.m.	—	0.020	0.011	35	A
627	"	6 56 32 "	—	0.020	0.012		"
628	"	6 56 34 "	—	0.009	0.003		"
629	"	6 58 23 "	0.8	0.006	0.004	17	"
630	"	7 00 09 "	0.8	0.015	0.016	31	"
631	"	7 00 13 "	0.8	0.003	0.003		"
632	"	7 01 26 "	—	0.003	0.002	13	"
633	"	7 02 31 "	—	0.006	0.005	13	"
634	"	10 15 23 p.m.	0.8	0.020	0.012	4	"
635	22	10 23 37 a.m.	0.8	0.010	0.006	19	"
636	"	10 47 17 "	0.8	0.008	0.007	18	"
637	"	10 51 10 "	0.9	0.045	0.030	33	A, sensible
638	"	11 32 49 "	0.8	0.006	0.003	20	A
639	"	11 54 09 "	0.8	0.003	0.002	12	"
640	"	5 14 15 p.m.	1.0	0.045	0.037	22	"
641	"	6 19 02 "	1.6	0.041	0.060	47	A, sensible
642	23	10 29 31 a.m.	2.0	0.002	—	26	B
643	"	11 30 20 "	3.9	0.003	—	33	"
644	"	1 24 11 p.m.	1.4	0.001	—	15	"
645	"	3 16 28 "	1.7	0.003	—	26	"
646	"	3 38 50 "	0.7	0.026	0.024	33	A
647	"	3 55 09 "	1.0	0.001	—	10	B
648	"	3 55 27 "	1.9	0.017	0.013	10	A
649	"	3 55 40 "	1.9	0.024	0.013	10	"
650	"	3 56 29 "	3.0	0.003	—	65	B
651	"	4 31 17 "	3.6	0.003	—	60	"
652	"	5 47 17 "	2.7	0.002	—	25	"
653	"	5 47 46 "	2.7	0.001	—	19	"
654	"	5 48 07 "	2.7	0.003	—	23	"
655	"	5 49 00 "	2.7	0.002	—	19	"
656	"	5 49 26 "	2.7	0.001	—	19	"
657	"	9 47 15 "	0.7	0.044	0.025	20	A, sensible
658	24	0 28 45 "	0.8	0.010	0.010	10	A
659	"	1 08 36 "	2.1	0.002	—	21	B
660	"	1 40 02 "	1.0	0.014	0.014	28	A
661	"	4 46 34 "	0.5	0.005	—	23	"
662	"	5 08 02 "	0.5	0.015	0.014	13	"
663	"	5 27 20 "	5.7	0.003	—	28	B
664	25	6 39 02 a.m.	0.5	0.006	0.005	9	A
665	"	8 38 02 "	0.0	0.027	0.017	16	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
666	25	9 43 16 a.m.	5.0	0.002	—	80	B
667	"	11 44 03 "	5.7	0.002	—	20	"
668	"	4 47 51 p.m.	2.9	0.002	—	60	"
669	"	5 34 02 "	6.0	0.001	—	60	"
670	"	5 39 01 "	9.0	0.002	—	45	"
671	"	5 42 07 "	3.9	0.002	—	40	"
672	"	5 44 28 "	—	0.001	—	19	"
673	"	5 44 47 "	0.0	0.003	—	2	A
674	"	5 44 51 "	2.7	0.001	—	27	B
675	"	5 45 49 "	4.0	0.023	—	46	"
676	"	9 39 43 "	0.0	0.013	0.005	25	A
677	26	3 07 40 a.m.	1.6	0.004	—	11	"
678	"	3 14 36 "	—	0.002	—	11	"
679	"	3 15 09 "	1.4	0.013	0.010	6	"
680	"	3 18 54 "	0.0	0.044	0.030	70	"
681	"	3 19 11 "	—	0.010	0.012	19	"
682	"	3 20 12 "	2.0	0.004	—	50	B
683	"	3 24 29 "	1.1	0.003	0.004	8	"
684	"	3 24 37 "	0.0	0.012	0.004	3	A
685	"	3 24 46 "	4.7	0.012	0.007	10	"
686	"	3 24 56 "	0.0	0.011	0.005	18	"
687	"	3 26 16 "	3.4	0.025	0.020	21	"
688	"	3 26 37 "	4.1	0.094	0.105	78	A, sensible
689	"	3 28 21 "	8.0	0.131	0.125	30	" "
690	"	3 29 01 "	6.0	0.058	0.063	94	" "
691	"	3 45 26 "	0.0	0.101	0.093	60	" "
692	"	5 10 53 "	0.8	0.001	—	30	B
693	"	11 10 43 "	—	0.002	—	26	"
694	"	11 14 21 "	5.0	0.001	—	26	"
695	"	11 14 47 "	2.7	0.003	—	27	"
696	"	5 50 36 p.m.	2.7	0.002	—	41	"
697	"	5 51 37 "	2.6	0.001	—	40	"
698	"	5 52 30 "	—	0.001	—	40	"
699	"	5 53 30 "	—	0.003	—	—	"
700	"	5 53 40 "	—	0.003	—	—	"
701	"	5 53 57 "	—	0.003	—	—	"
702	"	5 54 15 "	—	0.001	—	—	"
703	"	5 54 28 "	—	0.002	—	—	"
704	"	5 55 44 "	—	0.002	—	38	"
705	"	8 45 38 "	1.0	0.021	0.017	5	A

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
706	26	8 45 47 p.m.	3.0	0.007	—	35	B
707	"	11 09 22 "	2.7	0.001	—	27	"
708	27	0 18 21 a.m.	4.0	0.002	—	33	"
709	"	0 18 57 "	5.4	0.001	—	33	"
710	"	0 20 18 "	2.7	0.001	—	27	"
711	"	1 27 12 "	1.7	0.011	0.007	35	A
712	"	1 30 07 "	1.4	0.020	0.021	36	"
713	"	1 33 57 "	4.2	0.001	—	34	B
714	"	1 38 26 "	4.2	0.002	—	33	"
715	"	8 37 10 "	1.3	0.004	—	25	"
716	"	3 54 37 p.m.	6.0	0.002	—	60	"
717	"	10 32 55 "	0.8	0.015	0.010	32	A
718	28	4 12 54 a.m.	1.0	0.004	0.013	21	"
719	"	8 42 11 "	0.5	0.009	0.010	26	"
720	"	9 59 58 "	—	0.008	0.008	10	"
721	"	10 32 15 "	1.2	0.004	—	20	B
722	"	11 32 03 "	3.7	0.004	—	37	"
723	"	5 13 54 p.m.	1.5	0.010	—	60	"
724	"	5 34 24 "	1.4	0.010	—	22	"
725	"	5 34 58 "	1.3	0.002	—	22	"
726	"	5 36 20 "	0.8	0.001	—	14	"
727	"	5 37 19 "	1.4	0.001	—	15	"
728	"	5 37 49 "	—	0.002	—	20	"
729	"	5 38 56 "	1.4	0.002	—	20	"
730	"	10 52 25 "	1.0	0.020	0.016	24	A
731	29	1 14 14 "	0.0	0.252	0.160	—	A, sensible
732	"	1 14 38 "	2.7	0.487	1.110	—	" "
733	"	1 15 09 "	0.0	0.018	0.010	5	A
734	"	1 15 30 "	0.0	0.031	0.010	4	"
735	"	1 15 46 "	0.0	0.017	0.010	4	"
736	"	1 15 56 "	0.0	0.005	0.013	3	"
737	"	1 16 11 "	0.0	0.003	0.005	2	"
738	"	1 16 18 "	0.0	0.004	0.007	2	"
739	"	1 16 31 "	0.0	0.010	0.017	3	"
740	"	1 16 44 "	0.5	0.150	0.061	13	A, sensible
741	"	1 16 57 "	0.0	0.005	0.008	3	A
742	"	1 17 09 "	0.0	0.021	0.012	3	"
743	"	1 20 06 "	0.0	0.269	0.256	—	A, sensible
744	"	1 20 24 "	0.0	0.117	0.123	90	" "
745	"	1 33 10 "	0.0	0.044	0.054	—	" "

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
746	29	1 42 33 p.m.	0.0	0.043	0.043	13	A, sensible
747	"	1 42 55 "	0.0	0.006	0.010	3	A
748	"	1 43 12 "	0.0	0.096	0.080	18	A, sensible
749	"	1 43 38 "	0.0	0.005	0.006	1	A
750	"	1 44 19 "	0.0	0.078	0.080	8	A, sensible
751	"	1 44 27 "	0.0	0.024	0.020	6	A
752	"	1 44 36 "	0.0	0.005	0.006	1	"
753	"	1 45 31 "	0.5	0.010	—	5	"
754	"	1 55 47 "	0.0	0.030	0.040	8	A, sensible
755	"	1 55 56 "	0.0	0.013	0.025	6	A
756	"	1 56 18 "	0.0	0.012	0.018	5	"
757	"	1 56 29 "	0.0	0.058	0.080	11	A, sensible
758	"	2 10 23 "	0.0	0.047	0.028	11	" "
759	"	2 18 43 "	0.0	0.007	0.012	5	A
760	"	2 20 13 "	0.0	0.037	0.025	5	"
761	"	2 20 24 "	0.0	0.006	0.008	2	"
762	"	2 20 27 "	0.0	0.031	0.022	5	A, sensible
763	"	2 20 36 "	0.0	0.015	0.010	3	A
764	"	2 21 30 "	0.0	0.019	0.024	6	"
765	"	2 38 31 "	0.0	0.036	0.026	8	"
766	"	5 45 37 "	0.6	0.003	—	10	B
767	"	6 52 45 "	1.2	0.004	—	17	"
768	"	7 29 22 "	1.3	0.008	0.005	16	"
769	"	8 20 14 "	1.3	0.004	—	40	"
770	30	4 11 51 a.m.	1.3	0.002	—	25	"
771	"	5 30 30 "	—	0.002	—	117	"
772	"	5 33 38 "	0.5	0.013	0.010	11	A
773	"	5 34 08 "	0.0	0.003	0.004	13	"
774	"	5 37 18 "	0.0	0.088	0.065	13	A, sensible
775	"	5 40 31 "	0.6	0.018	0.010	8	A
776	"	8 48 41 "	0.0	0.102	—	50	A, sensible
777	"	8 51 48 "	0.0	0.080	—	37	" "
778	"	8 56 37 "	3.0	0.150	0.104	95	" "
779	"	9 02 08 "	0.8	0.003	0.001	10	B
780	"	9 02 42 "	1.3	0.003	0.001	8	"
781	"	9 04 47 "	0.5	0.081	0.044	20	A, sensible
782	"	9 05 07 "	0.0	0.009	0.005	3	A
783	"	10 02 56 "	0.8	0.002	—	17	B
784	"	1 30 44 p.m.	0.7	0.007	0.008	18	"
785	"	6 12 06 "	0.5	0.009	0.011	4	A

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
786	30	6 12 24 p.m.	0.3	0.042	0.021	10	A
787	"	7 10 43 "	1.0	0.011	0.008	8	"
788	"	7 14 03 "	0.0	0.003	0.004	3	"
789	"	7 36 46 "	0.0	0.006	0.006	2	"
790	"	7 36 56 "	0.4	0.047	0.038	10	"
791	"	7 37 14 "	0.0	0.008	0.008	3	"
792	OCTOBER 1	11 49 18 "	2.4	0.002	—	36	B
793	"	11 50 32 "	2.4	0.001	—	24	"
794	"	11 51 03 "	2.4	0.001	—	15	"
795	"	11 51 28 "	2.4	0.001	—	17	"
796	2	0 25 16 a.m.	0.8	0.015	—	35	A
797	"	3 31 38 "	0.7	0.022	0.010	27	"
798	"	0 30 54 p.m.	0.7	0.053	0.025	20	A, sensible
799	"	0 33 36 "	0.0	0.009	0.007	8	A
800	"	0 35 26 "	1.4	0.004	0.003	50	B
801	"	0 46 18 "	1.1	0.003	0.002	16	"
802	"	0 47 12 "	0.0	0.668	0.270	—	A, sensible
803	"	0 47 41 "	0.0	0.031	0.056	—	A
804	"	0 47 56 "	0.0	0.018	0.007	—	"
805	"	0 48 56 "	0.0	0.083	0.060	—	A, sensible
806	"	0 49 03 "	0.0	0.140	0.105	26	"
807	"	0 49 29 "	0.0	0.010	0.018	23	A
808	3	5 03 47 a.m.	—	0.006	0.003	—	"
809	"	5 03 58 "	2.1	0.133	0.008	10	A, sensible
810	"	5 04 09 "	0.0	0.036	0.033	10	"
811	"	5 04 25 "	0.0	0.037	0.023	12	A
812	"	8 12 07 "	—	0.007	0.013	8	"
813	"	8 13 07 "	0.0	0.172	0.115	70	A, sensible
814	"	9 20 14 p.m.	1.3	0.004	—	52	B
815	"	10 45 37 "	0.0	0.019	—	5	A
816	4	1 39 19 a.m.	2.8	0.001	—	37	B
817	"	1 40 23 "	2.8	0.002	—	34	"
818	"	11 11 21 "	—	0.005	0.003	10	"
819	"	11 13 33 "	—	0.001	—	10	"
820	"	11 14 49 "	1.9	0.007	0.005	37	"
821	"	3 53 23 p.m.	0.9	0.007	0.007	9	A
822	"	5 04 31 "	0.5	0.031	0.036	11	"
823	"	5 41 28 "	—	0.001	—	50	B
824	"	11 14 09 "	—	0.001	—	42	"
825	5	1 45 41 a.m.	1.4	0.006	0.003	50	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
826	5	2 40 38 a.m.	0.5	0.042	0.046	7	A, sensible
827	"	2 40 46 "	0.6	0.263	0.185	—	" "
828	"	2 41 11 "	0.5	0.026	0.010	18	" A
829	"	2 42 01 "	2.0	0.007	0.005	—	" "
830	"	2 42 54 "	0.0	0.105	0.070	—	A, sensible
831	"	2 43 00 "	—	0.104	0.110	—	" "
832	"	2 43 03 "	—	0.142	0.065	—	" "
833	"	2 43 23 "	—	0.027	0.025	—	" A
834	"	2 45 44 "	0.0	0.015	0.010	—	" "
835	"	2 45 47 "	—	0.014	0.010	7	" "
836	"	2 59 54 "	0.6	0.062	0.038	13	A, sensible
837	"	3 00 09 "	—	0.022	0.016	18	A
838	"	4 48 16 "	1.0	0.051	0.045	—	A, sensible
839	"	4 48 30 "	—	0.011	0.013	—	A
840	"	4 51 10 "	0.0	0.004	0.010	—	" "
841	"	4 51 12 "	0.0	0.011	0.010	—	" "
842	"	4 51 15 "	0.0	0.015	0.011	16	" "
843	"	6 56 05 "	—	0.001	—	17	B
844	"	7 01 10 "	—	0.003	—	20	" "
845	"	7 35 50 "	1.5	0.001	—	48	" "
846	"	8 11 18 "	—	0.003	—	60	" "
847	"	10 24 35 "	—	0.003	—	50	" "
848	"	2 02 38 p.m.	—	0.001	—	10	" "
849	"	2 02 56 "	—	0.003	—	10	" "
850	"	2 03 39 "	—	0.003	—	10	" "
851	"	2 09 20 "	—	0.006	0.006	26	" "
852	"	3 35 05 "	1.4	0.003	—	47	" "
853	"	4 05 10 "	2.7	0.003	—	54	" "
854	"	4 37 25 "	1.1	0.003	—	70	" "
855	"	5 21 41 "	—	0.008	0.007	70	" "
856	6	0 30 45 a.m.	0.0	0.005	0.008	37	" "
857	"	1 16 33 "	0.8	0.025	0.015	77	A
858	"	2 01 47 "	1.8	0.011	0.003	3	" "
859	"	2 24 47 "	0.5	0.039	0.025	90	" "
860	"	7 20 52 "	1.5	0.003	—	45	B
861	"	10 53 16 "	—	0.002	—	—	" "
862	"	10 53 35 "	—	0.002	—	—	" "
863	"	10 54 07 "	—	0.004	—	60	" "
864	"	0 00 08 p.m.	—	0.004	0.003	9	A
865	"	0 15 47 "	—	0.003	—	34	B

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
866	5	0 55 19 p.m.	—	0.003	—	17	B
867	"	1 06 44 "	—	0.002	—	14	"
868	6	5 57 08 "	0.5	0.009	0.004	11	A
869	"	10 55 07 "	0.5	0.037	0.020	33	"
870	7	6 59 29 a.m.	—	0.002	—	22	B
871	"	8 56 33 "	—	0.002	—	19	"
872	"	8 56 52 "	—	0.004	—	27	"
873	"	9 03 47 "	0.5	0.009	0.005	20	A
874	"	10 22 57 "	—	0.001	—	16	B
875	"	10 28 13 "	—	0.002	—	15	"
876	"	10 42 26 "	—	0.002	—	22	"
877	"	10 43 10 "	—	0.001	—	8	"
878	"	10 43 32 "	—	0.001	—	6	"
879	"	10 44 19 "	—	0.001	—	70	"
880	"	10 45 51 "	—	0.002	—	34	"
881	"	10 46 59 "	—	0.001	—	15	"
882	"	10 47 19 "	—	0.002	—	20	"
883	"	10 48 00 "	—	0.002	—	20	"
884	"	0 46 39 p.m.	—	0.002	—	46	"
885	"	1 03 00 "	—	0.001	—	30	"
886	"	1 06 01 "	—	0.002	—	14	"
887	"	1 06 44 "	0.0	0.005	—	4	"
888	"	1 06 57 "	0.0	0.004	—	3	"
889	"	1 11 36 "	—	0.001	—	11	"
890	"	1 12 16 "	—	0.002	—	20	"
891	"	1 14 37 "	—	0.003	—	30	"
892	"	1 43 21 "	0.0	0.074	0.050	42	A, sensible
893	"	1 45 12 "	0.0	0.002	—	8	A
894	"	2 07 43 "	—	0.001	—	31	B
895	"	3 16 39 "	—	0.002	—	28	"
896	"	3 27 21 "	0.9	0.002	—	22	"
897	"	3 34 35 "	—	0.003	—	16	"
898	"	3 35 14 "	—	0.001	—	15	"
899	"	3 36 04 "	—	0.001	—	15	"
900	"	4 20 46 "	—	0.003	—	19	"
901	"	4 21 10 "	—	0.003	—	19	"
902	8	10 49 34 a.m.	—	0.005	—	26	"
903	"	10 55 04 "	—	0.003	—	16	"
904	"	10 55 23 "	—	0.003	—	16	"
905	"	0 47 44 p.m.	—	0.001	—	10	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
906	8	0 50 14 p.m.	—	0.002	—	14	B
907	"	0 51 56 "	—	0.002	—	14	"
908	"	1 24 44 "	1.8	0.005	0.002	18	"
909	"	4 41 13 "	1.0	0.006	0.003	35	"
910	"	4 42 57 "	—	0.003	—	21	"
911	"	4 44 51 "	—	0.003	—	35	"
912	9	0 16 15 a.m.	0.8	0.004	—	10	A
913	"	1 29 09 "	—	0.007	—	65	B
914	"	2 34 10 "	—	0.001	—	18	"
915	"	3 52 57 "	—	0.007	—	29	"
916	"	6 51 40 "	0.0	0.006	0.006	19	A
917	"	0 47 30 p.m.	0.5	0.004	0.002	40	"
918	11	3 53 44 a.m.	—	0.003	—	10	"
919	12	2 26 12 "	1.5	0.003	0.002	45	"
920	"	5 39 05 "	0.0	0.006	0.014	8	"
921	"	5 39 20 "	0.0	0.009	0.017	6	"
922	"	6 08 08 "	—	0.004	0.016	10	"
923	"	6 39 00 "	—	0.002	0.005	10	"
924	"	6 39 21 "	0.6	0.048	0.050	16	A, sensible
925	"	7 59 32 "	—	0.003	0.002	24	B
926	"	4 24 53 p.m.	0.9	0.002	0.002	16	"
927	13	2 40 35 a.m.	0.5	0.031	0.021	44	A
928	"	8 17 06 "	0.7	0.009	0.006	17	"
929	14	7 10 09 "	—	0.007	—	28	B
930	"	9 06 46 "	—	0.002	—	21	"
931	"	11 20 15 "	—	0.005	—	55	"
932	15	7 26 49 "	—	0.003	—	4	A
933	"	7 27 33 "	—	0.005	—	4	"
934	"	6 48 55 p.m.	—	0.003	—	31	B
935	16	10 19 54 a.m.	—	0.003	—	18	"
936	"	11 32 37 "	0.7	0.007	0.005	15	"
937	17	2 19 40 "	0.8	0.008	0.008	17	"
938	18	1 16 07 p.m.	0.9	0.005	0.005	9	A
939	"	1 17 52 "	0.5	0.027	0.023	30	"
940	"	1 19 18 "	1.2	0.004	0.003	9	"
941	"	4 29 11 "	—	0.004	0.002	60	B
942	"	5 38 19 "	1.2	0.004	—	40	"
943	"	7 45 05 "	0.0	0.013	0.008	73	"
944	19	2 05 44 a.m.	1.5	0.003	—	57	"
945	"	5 10 29 "	—	0.001	—	25	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
946	19	6 54 39 a.m.	—	0.002	—	75	B
947	"	9 17 57 "	—	0.002	—	60	"
948	"	11 00 38 "	1.4	0.002	—	46	"
949	"	11 02 36 "	1.1	0.003	—	23	"
950	"	0 23 59 p.m.	—	0.002	—	27	"
951	"	0 34 17 "	—	0.002	—	11	"
952	"	2 35 47 "	0.9	0.006	0.005	16	"
953	"	3 42 01 "	0.9	0.002	—	17	"
954	"	9 40 01 "	0.9	0.003	—	23	"
955	20	1 37 17 a.m.	0.6	0.048	0.045	80	A, sensible

**TABLE II. LIST OF THE 1798 VOLCANIC EARTHQUAKES
INSTRUMENTALLY OBSERVED AT THE ASAMA-YAMA
(YUNO-TAIRA) SEISMOLOGICAL OBSERVATORY.
MAY 16TH TO OCTOBER 30TH, 1912.**

[A]....VOLCANIC EARTHQUAKE NOT ACCOMPANIED BY ERUPTION.

[B]....VOLCANIC EARTHQUAKE CAUSED BY AN ERUPTION.

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	MAY	h m s	sec.	mm	mm	sec.	
1	16	11 49 59 a.m.	0.4	0.007	0.004	9	A
2	18	10 14 35 "	0.5	0.010	—	8	"
3	19	5 27 26 "	0.4	0.172	0.155	120	A, sensible
4	"	6 07 45 "	0.7	0.003	0.001	9	A
5	"	6 19 17 "	0.5	0.008	0.004	12	"
6	"	6 19 53 "	0.5	0.008	0.006	13	"
7	"	9 29 24 "	3.2	0.002	0.001	32	B
8	20	1 51 42 "	0.5	0.005	0.001	5	A
9	"	7 45 00 p.m.	0.6	0.015	0.013	—	A, sensible
10	"	7 45 05 "	0.5	0.008	—	9	A
11	21	1 19 51 a.m.	0.5	0.008	0.001	8	"
12	"	4 12 41 "	0.3	0.070	0.050	40	"
13	"	10 25 54 "	0.5	0.055	0.075	25	A, sensible
14	"	10 26 19 "	—	0.008	0.001	—	A
15	"	10 26 21 "	—	0.042	0.035	—	"
16	"	10 26 24 "	—	0.007	—	—	"
17	"	10 26 26 "	0.5	0.018	0.013	13	"
18	"	10 26 49 "	0.7	0.076	0.058	30	A, sensible
19	"	10 26 55 "	—	0.013	0.017	9	A
20	"	10 45 10 "	0.5	0.005	0.001	7	"
21	22	0 54 34 "	3.0	0.004	0.002	40	B
22	"	0 03 55 p.m.	0.0	0.008	0.003	4	A
23	23	1 51 02 a.m.	5.5	0.007	0.003	70	B
24	"	1 51 21 "	4.7	0.004	0.003		"
25	"	1 51 36 "	4.7	0.003	0.002		"
26	24	9 53 30 a.m.	0.0	0.005	—	3	A
27	25	3 50 18 "	0.5	0.015	0.015	20	A, sensible
28	"	3 50 20 "	—	0.011	0.012		A
29	"	3 50 22 "	—	0.007	0.006		"
30	"	10 27 46 p.m.	0.6	0.044	0.028	35	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	MAY	h m s	sec.	mm	mm	sec.	
31	30	8 51 44 a.m.	2.0	0.004	0.002	60	B
32	31	9 10 37 p.m.	3.3	0.020	0.014	33	A
33	"	9 58 14 "	2.0	0.005	0.001	20	"
34	JUNE 1	4 15 22 a.m.	2.2	0.001	—	17	"
35	"	9 59 16 "	0.6	0.020	0.007	17	"
36	"	6 58 31 p.m.	1.9	0.003	0.003	31	B
37	2	2 16 53 a.m.	0.6	0.062	0.046	75	A, sensible
38	"	2 51 57 "	0.6	0.006	0.003	10	A
39	3	1 21 26 p.m.	0.8	0.010	0.004	13	"
40	"	1 33 02 "	0.9	0.011	0.012	29	"
41	"	1 33 59 "	0.7	0.003	0.001	—	"
42	"	1 34 02 "	0.5	0.005	0.004	—	"
43	"	1 34 05 "	—	0.003	0.001	—	"
44	"	1 34 07 "	0.4	0.035	—	57	"
45	"	3 46 29 "	1.3	0.003	0.001	18	B
46	8	2 32 42 a.m.	2.2	0.003	0.002	25	"
47	"	5 30 50 "	1.9	0.002	0.001	21	"
48	"	5 31 17 "	2.4	0.003	0.002	24	"
49	"	4 34 04 p.m.	1.3	0.001	—	13	"
50	"	5 39 48 "	4.5	0.003	0.001	32	"
51	9	8 44 54 "	0.6	0.010	0.002	8	A
52	11	3 54 24 "	0.6	0.048	0.037	—	A, sensible
53	"	3 54 36 "	—	0.007	0.003	—	A
54	"	3 54 48 "	—	0.003	0.001	—	"
55	"	3 55 06 "	—	0.001	—	—	"
56	"	3 55 11 "	0.5	0.008	—	—	"
57	13	2 22 39 "	—	0.001	—	10	B
58	"	4 02 30 "	—	0.003	0.002	46	"
59	"	9 41 52 "	—	0.002	0.001	27	"
60	14	11 13 50 a.m.	0.5	0.004	0.002	9	A
61	"	11 20 46 "	5.0	0.003	0.002	37	B
62	"	8 32 17 p.m.	1.1	0.005	0.003	26	A
63	"	8 33 33 "	0.5	0.002	0.001	10	"
64	"	9 31 32 "	0.5	0.019	0.013	12	"
65	"	9 31 47 "	0.5	0.003	0.001	7	"
66	16	11 44 53 a.m.	0.5	0.009	0.003	—	"
67	"	11 44 57 "	0.7	0.012	0.003	12	"
68	17	7 03 52 p.m.	0.4	0.002	0.001	4	"
69	"	7 41 35 "	1.2	0.008	0.004	13	"
70	"	7 43 04 "	0.7	0.002	0.001	8	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
71	17	7 46 54 p.m.	2.5	0.072	0.066	—	A, sensible
72	"	7 47 10 "	—	0.033	0.025	—	A
73	"	7 47 50 "	0.4	0.002	0.001	3	"
74	"	7 48 11 "	0.4	0.001	0.001	3	"
75	"	7 48 30 "	1.3	0.005	0.003	19	"
76	"	7 49 07 "	3.3	0.035	0.027	18	"
77	"	7 49 25 "	3.3	0.402	0.210	—	A, sensible
78	"	7 50 38 "	0.8	0.006	0.003	—	A
79	"	7 51 26 "	0.8	0.002	0.001	5	"
80	"	7 52 01 "	0.8	0.004	0.002	7	"
81	"	7 52 30 "	0.8	0.002	0.001	6	"
82	"	7 53 21 "	1.8	0.010	0.003	12	"
83	"	7 53 35 "	0.9	0.004	0.002	9	"
84	"	7 54 14 "	1.7	0.004	0.002	—	"
85	"	7 54 28 "	1.0	0.002	0.001	12	"
86	"	7 54 53 "	1.0	0.003	0.001	12	"
87	"	7 55 52 "	1.0	0.004	0.003	—	"
88	"	7 56 00 "	—	0.003	0.001	9	"
89	"	7 56 26 "	0.9	0.004	0.003	14	"
90	"	8 04 23 "	1.0	0.003	0.001	10	"
91	"	8 04 46 "	0.6	0.001	0.001	5	"
92	"	8 04 57 "	0.6	0.001	0.001	5	"
93	"	8 07 30 "	0.5	0.001	0.001	6	"
94	"	8 09 03 "	0.3	0.003	0.001	8	"
95	"	8 09 20 "	—	0.001	0.001	4	"
96	"	8 09 36 "	0.7	0.002	0.001	6	"
97	"	8 09 47 "	0.7	0.003	0.001	8	"
98	"	8 10 40 "	0.6	0.009	0.003	11	"
99	"	8 11 08 "	0.6	0.003	0.001	5	"
100	"	8 11 16 "	0.7	0.002	0.001	5	"
101	"	8 11 43 "	0.5	0.017	0.013	21	"
102	"	8 12 14 "	0.7	0.005	0.003	10	"
103	"	8 12 51 "	0.7	0.001	0.001	8	"
104	"	8 13 16 "	0.7	0.002	0.001	6	"
105	"	8 13 35 "	0.7	0.006	0.006	—	"
106	"	8 13 42 "	0.7	0.003	0.001	—	"
107	"	8 13 47 "	0.7	0.003	0.001	—	"
108	"	8 13 59 "	0.7	0.010	0.003	—	"
109	"	8 14 06 "	0.7	0.003	0.001	—	"
110	"	8 14 12 "	0.7	0.003	0.001	5	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
111	17	8 14 21 p.m.	0.7	0.002	0.001	5	A
112	"	8 15 00 "	—	0.002	0.001	7	"
113	"	8 15 33 "	0.6	0.005	0.002	7	"
114	"	8 16 04 "	0.6	0.001	0.001	6	"
115	"	8 16 23 "	0.6	0.001	0.001	6	"
116	"	8 16 52 "	1.0	0.003	0.001	9	"
117	"	8 17 16 "	—	0.001	0.001	4	"
118	"	8 18 16 "	—	0.004	0.002	5	"
119	"	8 19 35 "	0.5	0.004	0.001	10	"
120	"	8 20 05 "	0.6	0.014	0.016	—	"
121	"	8 20 15 "	—	0.010	0.002	—	"
122	"	8 20 30 "	0.6	0.048	0.035	35	A, sensible
123	"	8 21 19 "	—	0.003	0.001	4	A
124	"	8 21 50 "	0.5	0.003	0.001	4	"
125	"	8 22 03 "	0.5	0.002	0.001	4	"
126	"	8 22 14 "	0.6	0.010	0.004	4	"
127	"	8 27 05 "	0.5	0.003	0.001	5	"
128	"	8 27 20 "	0.5	0.002	0.001	5	"
129	"	8 27 26 "	0.5	0.002	0.001	5	"
130	"	8 27 37 "	—	0.002	0.001	5	"
131	"	8 31 03 "	0.6	0.002	0.001	5	"
132	"	8 32 57 "	0.6	0.002	0.001	5	"
133	"	9 11 58 "	0.5	0.002	0.001	4	"
134	"	9 27 23 "	0.4	0.005	0.002	11	"
135	"	9 57 26 "	0.3	0.003	0.001	4	"
136	"	10 03 24 "	0.3	0.003	0.001	4	"
137	"	10 46 18 "	0.7	0.010	0.004	17	"
138	"	11 53 14 "	0.7	0.001	0.001	5	"
139	18	0 42 48 a.m.	0.4	0.002	0.001	5	"
140	"	1 28 03 "	0.5	0.003	0.001	6	"
141	"	1 28 38 "	—	0.001	0.001	4	"
142	"	1 29 16 "	0.6	0.002	0.001	5	"
143	"	1 29 31 "	0.3	0.002	0.001	5	"
144	"	1 29 54 "	0.3	0.002	0.001	5	"
145	"	1 30 08 "	0.3	0.002	0.001	5	"
146	"	1 30 25 "	0.3	0.002	0.001	5	"
147	"	1 30 44 "	0.3	0.002	0.001	5	"
148	"	1 30 59 "	0.3	0.001	0.001	4	"
149	"	1 31 10 "	0.3	0.001	0.001	5	"
150	"	1 44 36 "	0.5	0.004	0.015	19	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
151	18	1 45 01 a.m.	0.5	0.014	0.013	—	A
152	"	1 45 04 "	—	0.007	—	—	"
153	"	1 55 31 "	0.5	0.002	0.001	5	"
154	"	7 22 00 "	0.6	0.004	0.002	11	"
155	"	8 10 12 "	0.5	0.003	0.001	6	"
156	"	4 40 12 p.m.	0.6	0.019	0.022	18	"
157	19	11 10 21 a.m.	0.9	0.032	0.029	35	A, sensible
158	"	1 26 31 p.m.	0.7	0.003	—	11	B
159	"	10 08 51 "	0.5	0.060	0.041	27	A, sensible
160	20	5 53 41 a.m.	1.0	0.029	0.031	60	A
161	"	11 05 02 "	0.4	0.056	0.048	25	A, sensible
162	"	2 22 52 p.m.	8.4	0.005	0.003	69	B
163	"	3 11 00 "	0.9	0.003	0.003	25	"
164	21	6 09 36 a.m.	1.9	0.017	0.014	60	A
165	"	10 41 05 "	0.9	0.023	0.023	60	A, sensible
166	22	4 31 43 "	1.9	0.004	0.003	26	B
167	23	11 16 13 "	0.3	0.018	0.016	12	A
168	25	2 39 57 "	1.4	0.365	0.270	—	A, sensible
169	"	2 41 08 "	1.0	0.012	0.012	17	A
170	"	2 42 07 "	0.9	0.003	—	7	"
171	"	2 42 33 "	0.7	0.010	0.010	7	"
172	"	2 42 46 "	1.0	0.005	0.001	5	"
173	"	2 42 58 "	1.0	0.050	0.047	12	"
174	"	2 43 10 "	1.0	0.005	0.001	—	"
175	"	2 43 14 "	1.0	Pointer went out	Pointer went out	—	A, sensible
176	"	2 45 07 "	—	0.044	"	—	A
177	"	2 45 45 "	—	0.022	"	—	"
178	"	2 45 53 "	—	0.110	"	—	"
179	"	2 46 05 "	—	0.580	"	—	A, sensible
180	"	2 46 34 "	0.6	0.026	"	—	A
181	"	2 46 43 "	0.6	0.095	"	—	A, sensible
182	"	2 46 58 "	—	0.017	"	—	A
183	"	2 47 09 "	0.7	0.018	"	—	"
184	"	2 47 12 "	—	0.090	"	—	A, sensible
185	"	2 47 24 "	—	0.050	0.065	—	A
186	"	2 47 36 "	—	0.015	0.016	—	"
187	"	2 48 12 "	0.0	0.087	0.116	27	A, sensible
188	"	2 50 45 "	0.0	0.012	0.015	5	A
189	"	2 55 06 "	0.6	0.006	Very slight	5	"
190	"	2 55 11 "	0.6	0.004	"	4	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
191	25	2 55 56 a.m.	0.4	0.007	Very slight	4	A
192	"	2 58 40 "	0.5	0.007	0.002	4	"
193	"	3 00 03 "	0.6	0.007	0.002	5	"
194	"	3 11 33 "	—	0.010	0.003	—	"
195	"	3 11 41 "	—	0.006	0.001	—	"
196	"	3 11 49 "	—	0.003	0.001	—	"
197	"	3 11 53 "	—	0.010	0.013	11	"
198	"	3 12 12 "	—	0.003	0.001	—	"
199	"	3 12 15 "	—	0.150	0.260	15	A, sensible
200	"	3 12 39 "	—	0.020	0.016	10	A
201	"	3 12 52 "	—	0.007	0.001	—	"
202	"	3 12 54 "	—	0.070	0.100	10	A, sensible
203	"	3 13 04 "	—	0.032	0.020	8	A
204	"	3 13 29 "	—	0.005	0.001	—	"
205	"	3 13 35 "	—	0.038	0.025	11	"
206	"	3 14 40 "	1.5	0.003	0.001	10	"
207	"	3 14 55 "	1.9	0.003	0.001	6	"
208	"	3 15 03 "	—	0.003	0.001	—	"
209	"	3 15 11 "	—	0.030	0.018	—	"
210	"	3 15 23 "	—	0.020	0.006	—	"
211	"	3 15 46 "	1.5	0.035	0.027	9	"
212	"	3 16 00 "	—	0.005	0.002	4	"
213	"	3 17 07 "	1.1	0.730	0.290	—	A, sensible
214	"	3 17 33 "	—	0.013	0.014	—	A
215	"	3 18 01 "	1.2	0.040	0.027	8	"
216	"	3 18 13 "	—	0.185	0.260	—	A, sensible
217	"	3 18 55 "	—	0.005	0.003	—	A
218	"	3 19 16 "	1.5	0.004	0.001	—	"
219	"	3 20 14 "	—	0.031	0.019	14	"
220	"	3 21 12 "	—	0.003	0.001	5	"
221	"	3 21 47 "	—	0.008	0.005	5	"
222	"	3 23 39 "	—	0.025	0.017	7	"
223	"	3 23 46 "	—	0.023	0.018	12	"
224	"	3 24 48 "	1.0	0.056	0.035	14	"
225	"	3 25 03 "	—	0.002	0.001	—	"
226	"	3 25 28 "	1.0	0.022	0.011	—	"
227	"	3 25 38 "	0.7	0.006	0.001	—	"
228	"	3 25 42 "	1.0	0.048	0.035	—	"
229	"	3 25 55 "	—	0.002	0.001	—	"
230	"	3 26 20 "	—	0.004	0.001	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
231	25	3 26 27 a.m.	—	0.005	0.001	—	A
232	"	3 26 39 "	—	0.003	0.001	—	"
233	"	3 26 45 "	—	0.002	0.001	—	"
234	"	3 30 18 "	—	0.005	0.002	—	"
235	"	3 31 29 "	—	0.002	—	—	"
236	"	3 31 45 "	0.9	0.040	0.027	12	"
237	"	3 32 14 "	—	0.080	0.010	7	"
238	"	3 33 32 "	—	0.003	0.001	7	"
239	"	3 34 03 "	0.9	0.080	0.055	14	A, sensible
240	"	3 34 56 "	0.6	0.005	0.001	5	A
241	"	3 35 06 "	—	0.004	0.001	5	"
242	"	3 37 21 "	0.9	0.016	0.013	6	"
243	"	3 44 51 "	—	0.013	0.010	10	"
244	"	3 45 21 "	—	0.015	0.002	5	"
245	"	3 45 29 "	—	0.060	0.035	—	"
246	"	3 45 34 "	—	0.020	0.010	—	"
247	"	3 45 46 "	—	0.023	—	6	"
248	"	3 46 31 "	—	0.005	0.001	7	"
249	"	3 48 12 "	—	0.007	0.007	7	"
250	"	3 49 03 "	—	0.004	0.001	5	"
251	"	3 51 10 "	0.0	0.042	0.017	7	"
252	"	3 52 11 "	0.9	0.003	0.002	5	"
253	"	3 53 44 "	0.6	0.003	—	6	"
254	"	3 56 57 "	0.6	0.005	—	—	"
255	"	3 57 01 "	0.6	0.012	0.003	9	"
256	"	3 58 26 "	0.5	0.020	—	10	"
257	"	3 58 44 "	0.5	0.007	0.014	8	"
258	"	4 00 11 "	0.6	0.006	0.002	8	"
259	"	4 00 42 "	—	0.007	0.003	6	"
260	"	4 11 01 "	0.6	0.037	0.037	15	"
261	"	4 12 28 "	0.0	0.008	0.001	4	"
262	"	4 13 48 "	—	0.045	0.035	15	"
263	"	4 15 32 "	0.5	0.004	0.001	6	"
264	"	4 17 49 "	0.0	0.017	0.012	—	"
265	"	4 17 53 "	—	0.006	0.001	—	"
266	"	4 20 01 "	0.5	0.016	0.005	8	"
267	"	4 22 50 "	—	0.003	0.001	3	"
268	"	4 25 56 "	—	0.003	0.002	—	"
269	"	4 26 14 "	—	0.006	0.005	—	"
270	"	4 28 51 "	0.9	0.013	0.003	8	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
271	25	4 29 07 a.m.	—	0.002	—	6	A
272	"	4 30 02 "	—	0.007	0.002	7	"
273	"	4 30 50 "	0.0	0.010	0.013	7	"
274	"	4 31 18 "	0.9	0.003	0.001	5	"
275	"	4 33 28 "	1.1	0.036	0.035	30	A, sensible
276	"	4 34 03 "	—	0.002	—	5	A
277	"	4 35 45 "	—	0.040	—	11	"
278	"	4 36 09 "	—	0.005	—	—	"
279	"	4 36 16 "	—	0.006	—	7	"
280	"	4 37 49 "	0.9	0.017	0.027	13	"
281	"	4 39 40 "	0.8	0.004	0.001	5	"
282	"	4 40 02 "	—	0.006	0.006	11	"
283	"	4 41 52 "	0.0	0.011	0.007	7	"
284	"	4 46 08 "	—	0.006	0.002	6	"
285	"	4 46 49 "	—	0.004	—	7	"
286	"	4 48 18 "	—	0.002	—	6	"
287	"	4 56 19 "	0.0	0.006	0.002	3	"
288	"	4 56 22 "	0.0	0.009	0.002	6	"
289	"	4 57 40 "	0.8	0.005	0.001	—	"
290	"	4 57 44 "	—	0.003	0.001	—	"
291	"	4 59 21 "	0.0	0.015	0.010	10	"
292	"	5 11 27 "	0.0	0.007	0.001	4	"
293	"	5 14 03 "	0.0	0.058	0.035	9	"
294	"	5 18 03 "	0.0	0.150	0.100	35	A, sensible
295	"	5 18 45 "	0.0	0.037	0.038	17	A
296	"	5 19 49 "	0.0	0.360	0.230	—	A, sensible
297	"	5 20 22 "	—	0.007	0.002	—	A
298	"	5 22 35 "	0.0	0.002	0.001	—	"
299	"	5 23 16 "	—	0.004	0.001	4	"
300	"	5 23 23 "	—	0.004	—	7	"
301	"	5 28 20 "	—	0.004	—	4	"
302	"	5 28 24 "	0.0	0.050	0.027	7	"
303	"	5 30 22 "	0.0	0.006	0.015	5	"
304	"	5 30 31 "	0.0	0.062	0.090	18	"
305	"	5 31 35 "	—	0.003	—	4	"
306	"	5 34 38 "	0.8	0.006	—	4	"
307	"	5 38 36 "	0.8	0.006	—	6	"
308	"	5 50 50 "	0.0	0.007	0.002	6	"
309	"	5 51 01 "	0.0	0.035	0.022	12	"
310	"	6 50 49 "	0.0	0.015	0.015	15	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JUNE	h m s	sec.	mm	mm	sec.	
311	25	9 37 45 a.m.	1.9	0.050	0.055	40	A, sensible
312	26	10 08 47 "	1.0	0.079	0.079	25	A
313	27	2 03 16 "	0.0	0.010	0.002	12	"
314	"	5 04 00 "	0.0	0.010	—	6	"
315	"	5 04 10 "	0.0	0.060	0.027	9	A, sensible
316	"	5 12 33 "	0.6	0.093	0.088	11	A
317	"	5 12 44 "	0.0	0.012	0.002	4	"
318	"	8 52 45 "	0.7	0.021	0.016	14	"
319	"	9 09 56 "	0.0	0.012	0.002	4	"
320	"	9 28 55 "	0.5	0.021	0.018	11	A, sensible
321	"	11 03 37 "	0.0	—	—	3	A
322	"	0 04 22 p.m.	0.6	0.028	0.022	9	A, sensible
323	"	0 09 41 "	0.0	0.012	0.001	4	A
324	"	1 12 51 "	0.0	0.050	0.032	9	A, sensible
325	"	3 25 52 "	0.0	0.007	—	—	A
326	"	8 52 11 "	0.0	0.005	0.001	4	"
327	"	8 53 17 "	0.5	0.032	0.020	7	A, sensible
328	"	10 36 48 "	—	0.003	—	4	A
329	"	10 37 33 "	—	0.005	—	4	"
330	28	5 36 51 "	0.0	0.009	—	4	"
331	"	5 57 16 "	—	0.086	0.086	52	A, sensible
332	29	1 46 56 a.m.	2.5	0.019	0.020	12	A
333	"	10 44 45 p.m.	0.5	0.017	0.006	7	"
334	"	11 17 39 "	0.0	0.011	—	7	"
335	30	11 13 39 a.m.	0.8	0.093	0.130	7	A, sensible
336	"	11 14 20 "	—	0.003	0.003	4	A
337	JULY 1	5 03 47 "	—	0.003	—	18	B
338	"	5 11 22 "	—	0.003	—	35	"
339	"	5 53 20 "	—	0.010	—	6	A
340	"	10 09 07 "	0.0	0.055	—	11	A, sensible
341	"	3 05 40 p.m.	—	0.033	—	30	B
342	"	5 33 40 "	0.6	0.007	—	29	"
343	2	5 29 21 a.m.	—	—	—	—	"
344	"	7 33 07 "	2.0	0.003	0.002	43	"
345	"	10 48 20 "	2.0	0.002	0.002	38	"
346	3	10 20 20 p.m.	—	0.009	0.006	2	A
347	"	10 20 23 "	—	0.011	—	2	"
348	4	6 59 17 "	—	0.002	0.001	37	B
349	"	10 05 59 "	—	0.001	0.001	2	A
350	5	0 41 51 a.m.	—	0.001	—	43	B

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
351	5	1 01 43 a.m.	—	0.001	—	55	B
352	"	1 08 34 "	1.6	0.001	—	31	"
353	"	1 18 19 "	—	0.001	0.001	21	"
354	"	6 14 00 "	2.7	0.001	0.001	41	"
355	"	8 30 00 "	—	0.004	—	89	"
356	"	9 09 33 "	—	0.001	0.001	15	"
357	"	9 41 32 "	3.6	0.002	0.002	41	"
358	"	9 42 13 "	—	0.001	0.001	27	"
359	"	9 42 40 "	—	0.001	0.001	19	"
360	"	9 43 53 "	2.9	0.002	0.001	39	"
361	"	9 44 38 "	2.5	0.001	—	35	"
362	"	3 18 53 p.m.	—	0.004	0.001	8	A
363	"	7 46 17 "	—	0.004	0.002	75	B
364	"	8 35 56 "	1.9	0.001	0.001	31	"
365	6	9 33 54 a.m.	1.7	0.001	—	18	"
366	"	9 34 12 "	1.8	0.001	—	7	"
367	"	9 34 29 "	1.6	0.001	—	20	"
368	"	9 34 56 "	1.6	0.001	—	20	"
369	"	9 42 41 "	—	0.001	—	46	"
370	"	10 30 05 "	—	0.001	0.001	21	"
371	"	10 30 34 "	—	0.001	—	21	"
372	"	10 30 55 "	1.2	0.001	—	30	"
373	"	10 35 27 "	—	0.001	0.001	60	"
374	7	5 00 56 "	3.5	0.005	0.002	31	"
375	"	5 20 13 "	0.0	0.005	0.002	10	A
376	"	5 29 46 "	3.7	0.001	0.001	35	B
377	"	9 30 24 "	1.0	0.001	0.001	20	"
378	"	11 43 30 "	—	0.001	0.001	25	"
379	"	0 12 27 p.m.	3.9	0.005	0.005	11	A
380	"	2 29 26 "	6.2	0.002	0.001	52	B
381	"	2 37 34 "	—	0.002	0.001	30	"
382	"	6 42 57 "	2.0	0.002	0.001	13	"
383	"	8 17 59 "	1.0	0.003	0.002	25	"
384	"	10 50 25 "	3.1	0.001	0.001	34	"
385	8	1 14 52 a.m.	2.0	0.001	0.001	24	"
386	"	4 44 41 "	0.0	0.012	0.007	17	A
387	"	4 59 34 "	—	0.001	0.001	55	B
388	"	5 59 13 "	—	0.001	0.001	33	"
389	"	6 46 54 "	0.0	0.007	0.002	7	A
390	"	7 39 57 "	—	0.002	0.001	28	B

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
391	8	3 08 38 p.m.	0.0	0.004	0.001	10	A
392	9	7 28 30 a.m.	1.8	0.002	0.001	42	B
393	"	7 29 17 "	0.0	0.010	0.002	8	A
394	"	0 07 19 "	4.2	0.001	0.001	30	B
395	10	11 24 46 "	—	0.001	0.001	83	"
396	"	3 24 01 p.m.	6.2	0.002	0.001	31	"
397	"	8 44 38 "	6.5	0.003	0.001	30	"
398	11	5 00 20 a.m.	4.5	0.002	0.001	142	"
399	"	6 44 34 "	6.0	0.001	0.001	47	"
400	"	0 07 31 p.m.	1.8	0.003	0.001	10	A
401	"	0 10 42 "	0.7	0.054	0.040	41	"
402	"	3 46 34 "	—	0.003	0.001	3	"
403	"	3 46 37 "	—	0.003	—	5	"
404	12	2 10 56 a.m.	1.8	0.001	0.002	7	"
405	"	4 10 26 "	5.5	0.004	0.002	38	B
406	13	3 22 56 p.m.	2.0	0.004	0.003	10	A
407	"	7 29 04 "	2.0	0.001	0.001	24	B
408	"	7 29 34 "	2.0	0.001	—	60	"
409	"	7 31 39 "	1.9	0.001	0.001	68	"
410	"	9 48 59 "	8.0	0.002	0.001	65	"
411	14	6 09 01 a.m.	1.7	0.002	0.001	33	"
412	"	11 30 39 "	1.7	0.004	0.002	52	"
413	"	10 15 00 p.m.	1.8	0.002	0.001	6	A
414	15	10 46 03 a.m.	4.3	0.001	0.001	21	B
415	"	1 11 54 p.m.	3.0	0.003	0.001	86	"
416	"	1 57 26 "	—	0.001	0.001	11	"
417	"	1 59 27 "	2.0	0.002	0.001	5	A
418	"	1 59 58 "	1.7	0.005	0.003	4	"
419	"	2 07 26 "	1.9	0.002	0.001	17	B
420	"	2 09 13 "	1.9	0.003	0.002	6	A
421	"	5 03 19 "	3.0	0.003	0.001	20	"
422	"	7 06 15 "	1.9	0.004	0.001	5	"
423	"	7 50 33 "	—	0.002	0.002	103	B
424	"	9 31 12 "	2.5	0.002	0.002	24	"
425	"	10 03 32 "	—	0.003	0.002	60	"
426	16	6 23 27 a.m.	3.0	0.003	0.003	14	A
427	"	6 34 04 "	4.0	0.003	0.003	33	"
428	"	7 24 54 "	4.0	0.002	0.001	34	B
429	"	7 45 35 "	0.0	Pointer went out	Pointer went out	106	A, sensible
430	"	7 48 16 "	4.0	—	0.004	12	A

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm (Pointer went out)	mm	sec.	
431	16	7 49 13 a.m.	1.7		0.010	4	A
432	"	7 49 27 "	0.0	"	0.030	4	"
433	"	7 49 34 "	0.0	"	0.002	1	"
434	"	7 49 46 "	0.6	"	0.006	3	"
435	"	7 49 57 "	0.0	"	0.004	3	"
436	"	7 50 09 "	0.0	"	0.002	2	"
437	"	7 50 22 "	0.0	"	Pointer went out	131	A, sensible
438	"	7 52 35 "	0.0	"	0.030	5	A
439	"	7 52 41 "	0.7	"	0.010	5	"
440	"	7 52 55 "	0.0	"	0.092	—	A, sensible
441	"	7 53 07 "	0.0	"	0.010	5	A
442	"	7 53 28 "	0.0	"	0.023	7	"
443	"	7 53 48 "	0.0	"	0.042	5	A, sensible
444	"	7 54 03 "	0.0	"	0.011	3	A
445	"	7 55 01 "	0.0	"	0.060	3	A, sensible
446	"	7 55 09 "	0.0	"	0.050	5	A
447	"	7 55 58 "	0.0	"	0.013	7	"
448	"	7 56 14 "	0.0	"	0.043	6	A, sensible
449	"	7 56 21 "	0.0	"	Pointer went out	53	A
450	"	7 57 14 "	0.0	"	0.030	13	"
451	"	7 57 27 "	0.0	"	0.018	7	"
452	"	7 57 59 "	—	"	0.004	16	B
453	"	7 58 19 "	0.0	"	0.060	3	A, sensible
454	"	7 58 32 "	0.0	0.022	0.030	7	A
455	"	7 58 39 "	0.0	0.020	0.010	6	"
456	"	7 58 45 "	0.0	0.031	0.048	31	"
457	"	7 59 26 "	1.7	0.010	0.001	17	"
458	"	7 59 59 "	0.0	0.210	0.092	42	A, sensible
459	"	8 01 06 "	0.0	0.015	0.010	16	A
460	"	8 01 51 "	0.8	0.028	—	12	"
461	"	8 02 05 "	0.0	0.255	0.225	37	A, sensible
462	"	8 02 46 "	0.0	0.010	—	12	A
463	"	8 02 48 "	0.0	0.021	—	10	"
464	"	8 02 59 "	0.0	0.010	—	5	"
465	"	8 03 04 "	0.0	0.008	—	12	"
466	"	8 03 16 "	0.0	0.010	—	6	"
467	"	8 03 22 "	0.0	0.010	—	13	"
468	"	8 03 35 "	0.0	0.003	—	6	"
469	"	8 03 59 "	0.0	0.158	0.110	50	A, sensible
470	"	8 05 04 "	0.0	0.003	0.001	4	A

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
471	16	8 05 08 a.m.	0.0	0.004	0.001	4	A
472	"	8 05 49 "	1.7	0.023	0.003	10	"
473	"	8 06 00 "	0.0	0.115	0.118	19	A, sensible
474	"	8 06 37 "	0.0	0.070	0.070	26	A
475	"	8 07 06 "	0.0	Pointer went out	0.590	47	"
476	"	8 07 53 "	0.0	"	0.170	67	"
477	"	8 09 07 "	0.0	0.090	0.067	30	"
478	"	8 10 04 "	0.0	0.005	—	5	"
479	"	8 10 29 "	0.0	0.006	—	7	"
480	"	8 10 49 "	7.0	0.012	0.008	20	"
481	"	8 11 30 "	3.5	0.005	—	7	"
482	"	8 12 17 "	0.0	0.008	0.005	7	"
483	"	8 12 27 "	1.7	0.005	—	7	"
484	"	8 13 22 "	0.0	0.001	—	7	"
485	"	8 13 39 "	0.0	0.012	0.002	9	"
486	"	8 14 09 "	0.0	0.012	0.002	24	"
487	"	8 14 34 "	0.0	0.003	0.001	6	"
488	"	8 14 57 "	2.0	0.003	0.001	8	"
489	"	8 15 15 "	0.8	0.005	0.002	4	"
490	"	8 15 25 "	0.0	0.002	0.001	4	"
491	"	8 15 41 "	0.0	0.005	—	4	"
492	"	8 16 04 "	1.2	0.005	0.002	8	"
493	"	8 16 15 "	2.0	0.006	0.002	8	"
494	"	8 16 48 "	0.0	0.045	0.028	16	A, sensible
495	"	8 17 08 "	0.0	0.002	0.001	4	A
496	"	8 17 28 "	4.0	0.005	—	7	"
497	"	8 17 35 "	0.0	0.005	0.001	9	"
498	"	8 19 03 "	0.0	0.030	0.018	25	A, sensible
499	"	8 19 28 "	0.0	0.048	0.032	14	A
500	"	8 20 05 "	2.0	0.008	0.002	33	"
501	"	8 20 41 "	2.0	0.008	0.002	8	"
502	"	8 21 05 "	4.0	0.002	0.001	10	"
503	"	8 21 44 "	0.0	0.125	0.040	8	A, sensible
504	"	8 22 19 "	4.0	0.002	—	8	A
505	"	8 22 35 "	0.0	0.002	—	9	"
506	"	8 22 47 "	0.0	0.009	0.005	16	"
507	"	8 24 04 "	4.0	0.012	0.002	12	"
508	"	8 24 28 "	0.0	0.003	—	5	"
509	"	8 24 33 "	0.0	0.003	—	5	"
510	"	8 25 17 "	5.0	0.002	—	5	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
511	16	8 25 28 a.m.	0.0	0.053	0.053	16	A, sensible
512	"	8 26 50 "	5.0	0.003	—	17	A
513	"	8 27 24 "	0.0	0.002	—	9	"
514	"	8 27 44 "	0.0	0.007	0.002	18	"
515	"	8 30 24 "	0.0	0.002	—	7	"
516	"	8 30 40 "	0.0	0.002	—	6	"
517	"	8 32 15 "	—	0.001	—	4	"
518	"	8 33 14 "	0.0	0.020	0.018	9	A, sensible
519	"	8 34 10 "	2.1	0.011	0.002	13	A
520	"	8 36 24 "	0.0	0.014	0.025	19	"
521	"	8 37 14 "	0.0	0.030	—	15	"
522	"	8 37 32 "	0.0	0.030	—	21	"
523	"	8 38 19 "	4.0	0.002	0.001	12	"
524	"	8 39 03 "	1.1	0.090	0.073	35	A, sensible
525	"	8 39 38 "	0.0	0.023	0.006	15	A
526	"	8 43 04 "	1.4	0.010	—	28	"
527	"	8 43 32 "	0.0	0.011	0.002	11	"
528	"	8 44 23 "	0.0	0.002	—	8	"
529	"	8 45 22 "	0.0	0.002	—	5	"
530	"	8 46 01 "	0.0	0.003	—	6	"
531	"	8 46 45 "	0.0	0.020	0.010	31	"
532	"	8 47 16 "	0.0	0.003	—	8	"
533	"	8 47 38 "	0.0	0.002	—	4	"
534	"	8 47 51 "	0.0	0.002	—	8	"
535	"	8 49 36 "	0.0	0.010	—	17	"
536	"	8 52 57 "	0.0	0.100	0.043	11	A, sensible
537	"	8 53 42 "	0.0	0.031	0.010	14	A
538	"	8 54 04 "	0.0	0.005	—	21	B
539	"	8 55 57 "	0.0	0.370	0.173	48	A, sensible
540	"	8 57 48 "	0.0	0.002	—	7	A
541	"	9 00 12 "	0.0	0.010	—	8	"
542	"	9 00 32 "	0.0	0.008	—	14	"
543	"	9 01 00 "	2.8	0.005	—	11	"
544	"	9 01 17 "	0.0	0.120	0.070	28	A, sensible
545	"	9 01 45 "	0.0	0.268	0.108	18	A
546	"	9 02 03 "	0.0	0.158	0.095	32	"
547	"	9 02 39 "	0.0	0.009	—	7	"
548	"	9 03 46 "	1.2	0.002	—	18	"
549	"	9 04 21 "	—	0.002	—	14	"
550	"	9 07 41 "	0.0	0.013	0.012	10	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
551	16	9 09 14 a.m.	0.0	0.009	0.002	19	A
552	"	9 10 19 "	0.0	0.002	—	19	"
553	"	9 10 46 "	0.0	Pointer went out	Pointer went out	90	A, sensible
554	"	9 12 37 "	0.0	0.010	0.002	17	A
555	"	9 13 07 "	0.0	0.040	0.012	9	A, sensible
556	"	9 13 52 "	0.0	0.002	—	7	A
557	"	9 14 11 "	1.4	0.011	—	20	"
558	"	9 15 34 "	2.0	0.005	0.002	8	"
559	"	9 15 48 "	0.0	0.003	0.001	10	"
560	"	9 16 12 "	2.0	0.002	0.001	8	"
561	"	9 16 20 "	—	0.005	0.001	10	"
562	"	9 17 09 "	0.0	0.006	0.001	17	"
563	"	9 20 32 "	0.0	0.020	0.010	15	"
564	"	9 21 41 "	2.0	0.040	0.012	18	A, sensible
565	"	9 22 39 "	—	0.002	—	17	A
566	"	9 23 00 "	2.0	0.002	0.001	8	"
567	"	9 27 27 "	0.0	0.038	0.030	25	A, sensible
568	"	9 28 39 "	0.0	0.002	—	5	A
569	"	9 28 44 "	0.0	0.002	—	5	"
570	"	9 29 19 "	0.0	0.040	0.023	38	A, sensible
571	"	9 32 19 "	0.0	0.002	—	6	A
572	"	9 32 33 "	0.0	0.013	—	9	"
573	"	9 33 09 "	0.0	0.041	0.040	32	A, sensible
574	"	9 34 06 "	0.0	0.003	0.002	10	A
575	"	9 35 31 "	0.0	0.013	0.001	9	"
576	"	9 35 50 "	2.0	0.005	—	5	"
577	"	9 36 04 "	0.0	0.010	0.005	9	"
578	"	9 36 14 "	0.0	0.002	—	8	"
579	"	9 36 24 "	0.0	0.035	0.026	18	A, sensible
580	"	9 37 55 "	0.0	0.020	0.013	9	A
581	"	9 38 27 "	0.0	0.010	—	13	"
582	"	9 39 06 "	0.0	0.010	—	9	"
583	"	9 39 35 "	0.0	0.014	—	9	"
584	"	9 41 50 "	2.0	0.025	0.007	20	"
585	"	9 42 52 "	2.0	0.002	—	8	"
586	"	9 45 20 "	—	0.002	—	26	"
587	"	9 46 52 "	2.0	0.002	—	8	"
588	"	9 47 00 "	0.0	0.009	0.001	8	"
589	"	9 47 13 "	0.0	0.002	—	8	"
590	"	9 48 13 "	0.0	0.002	0.001	16	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
591	16	9 49 40 a.m.	2.0	0.008	0.001	16	A
592	"	9 52 06 "	0.0	0.013	0.008	16	"
593	"	9 52 30 "	0.0	0.002	—	8	"
594	"	9 55 18 "	1.6	0.002	—	10	"
595	"	10 01 28 "	7.5	0.008	—	15	"
596	"	10 07 33 "	3.6	0.008	—	7	"
597	"	10 07 40 "	0.0	0.073	0.025	18	A, sensible
598	"	10 17 14 "	0.0	0.025	—	2	A
*	"	10 17 22 "	0.0	0.007	—	2	—
599	"	10 18 37 "	0.0	0.038	—	4	A, sensible
*	"	10 32 43 "	0.0	0.007	—	1	—
600	"	10 33 11 "	0.0	—	—	45	A, sensible
601	"	10 34 16 "	0.0	0.084	—	2	" "
*	"	10 36 50 "	0.0	0.013	—	2	—
602	"	10 37 25 "	0.0	0.029	—	8	A
603	"	10 37 47 "	0.0	0.017	—	7	B
604	"	10 39 25 "	—	0.001	—	12	"
605	"	10 44 30 "	0.0	0.070	—	9	A, sensible
606	"	10 44 51 "	1.7	0.001	—	17	B
607	"	10 45 13 "	—	0.003	—	23	"
608	"	10 49 04 "	0.0	0.021	—	5	A
609	"	10 51 39 "	0.0	0.027	—	6	"
610	"	10 51 45 "	0.0	0.019	—	7	"
*	"	10 53 14 "	0.0	0.015	—	13	—
611	"	10 53 51 "	—	0.003	—	23	B
612	"	10 57 36 "	0.0	0.043	—	9	A, sensible
613	"	10 57 45 "	—	0.002	—	9	B
614	"	10 58 39 "	—	0.001	—	—	—
*	"	11 03 02 "	0.0	0.008	—	6	—
*	"	11 03 21 "	0.0	0.015	—	5	—
*	"	11 03 54 "	0.9	0.007	—	2	—
615	"	11 04 40 "	—	0.003	—	36	B
616	"	11 05 16 "	1.7	0.002	—	35	"
617	"	11 05 56 "	—	0.002	—	16	"
618	"	11 06 31 "	0.0	0.027	—	12	A
619	"	11 06 43 "	—	0.001	—	22	B
620	"	11 12 23 "	—	0.003	0.001	28	"

* On July 16th to 20th, there were 34 disturbances recorded by the seismographs, which were due to the rolling down of rock fragments at the Tomi-no-Kuchi (page 170). These are marked with *asterisks* and are not numbered among the earthquakes.

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
621	16	11 13 02 a.m.	2.3	0.003	0.001	16	B
622	"	11 14 58 "	1.9	0.037	0.033	78	A, sensible
623	"	11 16 35 "	—	0.003	—	4	A
*	"	11 18 19 "	0.0	0.009	—	10	—
*	"	11 24 19 "	0.0	0.017	—	4	—
624	"	11 27 28 "	0.0	0.054	0.075	40	A, sensible
*	"	11 34 30 "	0.0	0.023	—	8	—
*	"	11 52 23 "	0.0	0.020	0.015	6	—
625	"	11 52 36 "	0.0	0.032	0.035	6	A, sensible
626	"	11 52 43 "	0.0	0.010	—	2	A
*	"	11 52 50 "	0.0	0.015	—	2	—
*	"	11 52 57 "	0.0	0.019	—	4	—
627	"	11 53 43 "	—	0.003	—	9	B
628	"	11 54 41 "	—	0.003	—	21	"
*	"	11 55 42 "	0.0	0.008	—	2	—
629	"	0 04 23 p.m.	0.0	0.023	0.020	3	A
630	"	0 06 31 "	0.0	0.033	0.030	10	A, sensible
631	"	0 09 56 "	1.5	0.013	0.003	40	A
632	"	0 10 35 "	0.0	0.019	0.015	17	B
633	"	0 39 38 "	0.0	0.048	0.030	6	A, sensible
634	"	0 47 44 "	—	0.001	—	26	B
*	"	0 48 10 "	0.0	0.003	—	2	—
*	"	0 48 12 "	0.0	0.017	—	12	—
635	"	0 54 58 "	0.0	0.088	0.055	18	A, sensible
636	"	1 03 41 "	—	0.003	—	25	B
637	"	1 25 53 "	5.4	0.900	0.660	204	A, sensible
638	"	1 44 12 "	0.0	0.027	0.011	5	A
639	"	1 44 17 "	0.0	0.009	—	15	"
640	"	1 45 56 "	0.0	0.016	—	6	"
641	"	1 57 02 "	—	0.007	—	3	"
642	"	1 59 16 "	—	0.003	—	9	B
643	"	2 06 54 "	—	0.007	—	22	"
*	"	2 07 16 "	0.0	0.009	—	14	—
*	"	2 14 18 "	0.0	0.007	—	4	—
*	"	2 22 25 "	0.0	0.007	—	5	—
*	"	2 28 43 "	0.0	0.001	—	5	—
*	"	2 34 28 "	0.0	0.018	0.005	7	—
644	"	2 43 42 "	0.0	0.034	0.025	4	A, sensible
645	"	2 43 46 "	—	0.017	—	2	A

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
646	16	2 43 48 p.m.	—	0.013	—	13	A
647	"	2 45 22 "	—	0.003	—	59	B
648	"	2 54 09 "	0.0	0.030	0.020	11	A, sensible
649	"	2 58 08 "	0.0	0.059	0.022	13	" "
650	"	3 02 52 "	—	0.004	—	18	B
651	"	3 10 52 "	—	0.001	—	4	A
652	"	3 39 01 "	—	0.005	0.001	12	B
*	"	4 03 40 "	—	0.005	0.001	4	—
653	"	4 24 21 "	0.0	0.023	0.002	14	A, sensible
*	"	4 31 38 "	0.0	0.007	—	4	—
654	"	4 36 21 "	0.0	0.022	0.022	3	A
655	"	4 40 03 "	0.0	0.008	0.001	7	"
656	"	5 45 58 "	0.0	0.011	0.002	2	"
657	"	5 46 33 "	0.0	0.040	0.005	4	A, sensible
658	"	5 48 41 "	1.7	0.052	0.018	9	" "
*	"	6 22 16 "	1.1	0.015	0.005	25	—
659	"	6 47 33 "	—	0.002	—	71	B
660	"	7 13 58 "	0.6	0.010	0.005	29	A
661	"	7 21 50 "	0.0	0.031	0.022	66	A, sensible
662	"	10 24 37 "	—	0.002	—	16	B
663	"	10 58 09 "	0.0	0.400	0.230	45	A, sensible
664	17	0 48 09 a.m.	0.0	0.027	0.020	9	A
665	"	0 53 23 "	0.0	0.012	0.001	5	"
666	"	1 18 06 "	—	0.012	0.002	27	B
667	"	1 54 24 "	0.0	0.019	0.003	4	A
668	"	2 03 24 "	0.0	0.021	0.020	10	"
669	"	3 28 32 "	0.0	0.028	0.027	10	A, sensible
670	"	3 46 37 "	—	0.001	—	29	B
671	"	4 02 09 "	0.0	0.036	0.032	6	A, sensible
672	"	4 12 37 "	—	0.001	—	34	B
673	"	5 09 36 "	—	0.005	0.001	12	"
674	"	6 17 17 "	0.0	0.045	0.034	7	A, sensible
675	"	7 43 17 "	1.0	0.016	0.005	10	A

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
676	17	7 46 11 a.m.	—	0.002	—	13	B
677	"	7 49 29 "	1.0	0.005	—	7	"
678	"	9 12 57 "	0.0	0.028	0.020	20	A, sensible
*	"	9 58 35 "	0.0	0.016	0.016	5	—
*	"	10 00 46 "	0.0	0.013	0.002	8	—
679	"	0 52 13 p.m.	—	0.002	—	12	B
680	"	1 27 37 "	1.0	0.061	0.010	11	A, sensible
681	"	2 46 30 "	—	0.003	0.001	13	B
682	"	4 49 12 "	0.0	0.089	0.070	14	A, sensible
683	"	5 01 08 "	0.0	0.052	0.057	13	" "
684	"	7 37 13 "	0.0	0.037	0.005	8	" "
685	"	7 53 09 "	—	0.003	0.002	94	B
686	"	8 27 30 "	0.0	0.009	—	19	A
687	"	9 19 51 "	0.0	0.027	0.005	6	A, sensible
688	"	9 37 08 "	1.5	0.031	0.021	9	" "
689	"	11 33 10 "	—	0.001	—	51	B
690	"	11 34 01 "	—	0.002	—	45	"
691	18	1 42 54 a.m.	0.0	0.019	0.008	11	A
692	"	7 42 17 "	0.0	0.015	0.003	10	"
693	"	8 08 41 "	1.3	0.026	0.028	48	A, sensible
694	"	9 49 27 "	—	0.005	—	26	B
695	"	10 07 10 "	—	0.003	—	41	"
696	"	10 14 02 "	—	0.004	0.001	20	"
697	"	11 03 09 "	—	0.005	0.003	43	"
698	"	11 40 36 "	0.8	0.009	—	10	A
699	"	0 01 15 p.m.	0.9	0.014	0.008	18	"
700	"	0 02 48 "	1.1	0.013	0.002	20	"
*	"	1 06 15 "	—	0.031	0.003	44	—
701	"	3 31 00 "	0.7	0.046	0.012	11	A, sensible
702	"	5 21 05 "	1.3	0.014	0.003	15	A
703	"	6 46 14 "	—	0.002	0.002	30	B
704	"	6 52 03 "	0.6	0.007	0.002	26	A
705	"	7 01 05 "	1.2	0.012	0.005	35	"
706	"	8 07 15 "	0.0	0.051	0.060	25	A, sensible
707	"	9 46 38 "	0.7	0.024	0.008	18	A
708	"	10 26 55 "	1.4	0.018	0.002	16	"
709	19	6 16 45 a.m.	—	0.003	—	22	B
710	"	6 39 45 "	—	0.002	0.002	32	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
*	19	7 34 25 a.m.	—	0.005	0.002	3	—
*	"	2 26 26 p.m.	0.0	0.013	0.001	4	—
*	"	3 42 45 "	0.0	0.009	0.002	3	—
711	"	3 43 25 "	0.0	0.060	0.024	22	A, sensible
*	"	5 11 15 "	0.0	0.021	0.010	6	—
712	"	5 35 32 "	0.0	0.064	0.090	70	A, sensible
*	"	7 04 21 "	0.0	0.012	0.004	10	—
*	"	8 50 37 "	0.0	0.007	0.002	8	—
713	"	10 02 47 "	0.0	0.174	0.095	30	A, sensible
714	"	10 03 17 "	0.0	0.045	0.035	22	" "
715	"	11 07 06 "	—	0.004	0.001	75	" B
716	20	0 01 21 a.m.	0.0	0.048	0.018	23	A, sensible
717	"	1 56 06 "	0.0	—	0.003	22	A
718	"	3 34 29 "	0.0	—	0.004	10	"
719	"	3 44 58 "	0.0	—	0.002	12	"
720	"	3 54 51 "	0.0	0.005	0.002	5	"
721	"	4 41 14 "	0.0	0.005	0.002	5	"
722	"	5 06 45 "	0.0	0.055	0.020	10	A, sensible
723	"	5 09 28 "	0.0	0.113	0.140	17	" "
724	"	8 55 48 "	0.0	0.094	0.083	42	" "
725	"	9 05 31 "	0.0	0.024	0.027	27	" A
726	"	9 41 06 "	0.7	0.023	0.007	29	"
727	"	9 43 19 "	0.7	0.018	0.014	34	"
728	"	9 47 03 "	—	0.020	0.017	26	"
729	"	9 48 00 "	1.1	0.063	0.063	46	A, sensible
730	"	9 48 55 "	0.7	0.013	0.008	14	A
731	"	9 49 17 "	0.7	0.013	0.004	27	"
732	"	10 22 07 "	—	0.003	—	40	B
733	"	11 57 30 "	—	0.001	—	19	"
*	"	0 28 28 p.m.	—	0.010	0.002	5	—
734	"	0 41 49 "	1.0	0.024	0.015	8	A
735	"	1 51 47 "	1.0	0.011	0.005	45	"
736	"	2 15 47 "	—	0.002	—	50	B
737	"	2 24 38 "	—	0.054	—	23	A, sensible
738	"	3 18 13 "	—	0.001	—	27	B
739	"	6 16 15 "	—	0.019	—	7	A
740	"	10 09 01 "	—	0.011	—	9	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
741	20	10 52 15 p.m.	—	0.003	—	20	B
742	21	4 03 59 a.m.	—	0.009	—	25	A
743	"	4 08 31 "	—	0.001	—	35	B
744	"	4 10 08 "	—	0.001	—	6	A
745	"	5 38 10 "	—	0.017	—	25	"
746	"	8 24 23 "	—	0.003	—	35	B
747	"	6 02 17 p.m.	5.7	0.387	—	180	A, sensible
748	"	6 58 00 "	—	0.003	—	38	B
749	"	7 02 11 "	—	0.011	—	50	"
750	"	9 11 24 "	1.3	0.013	—	60	A
751	"	10 54 47 "	1.6	0.010	—	60	"
752	"	11 18 16 "	—	0.027	—	22	A
753	22	2 21 07 a.m.	10.0	0.020	—	50	B
754	"	2 22 25 "	3.3	0.002	—	35	"
755	"	2 23 45 "	—	0.015	—	4	A
756	"	2 37 32 "	1.5	0.013	—	55	B
757	"	4 15 56 p.m.	2.4	0.013	0.003	20	A
758	"	4 52 59 "	—	0.023	0.013	25	"
759	"	11 37 48 "	—	0.002	0.002	18	B
760	23	1 28 48 a.m.	—	0.034	0.004	25	A
761	"	1 34 34 "	—	0.030	0.025	25	"
762	"	6 49 27 "	—	0.003	0.003	40	B
763	"	3 17 15 p.m.	—	0.002	0.001	25	"
764	"	3 34 56 "	—	0.003	0.002	25	"
765	24	6 28 00 a.m.	1.6	0.120	0.195	60	"
766	"	8 56 06 "	2.8	0.002	—	32	"
767	"	10 50 55 "	—	0.001	—	36	"
768	"	10 52 53 "	2.8	0.002	—	20	"
769	"	0 08 17 p.m.	0.4	0.019	—	6	A
770	"	0 12 55 "	1.8	0.004	—	51	B
771	"	0 21 21 "	2.9	0.002	—	33	A
772	"	2 33 29 "	1.8	0.002	—	15	B
773	"	3 51 51 "	—	0.001	—	35	"
774	"	4 28 46 "	—	0.002	—	41	"
775	"	4 29 29 "	2.6	0.002	—	65	"
776	"	4 52 27 "	1.0	0.004	—	22	"
777	"	5 01 15 "	1.7	0.003	—	14	"
778	"	5 44 21 "	1.7	0.001	—	28	"
779	"	7 58 13 "	0.0	0.010	—	32	A
780	"	8 23 42 "	0.0	0.270	0.205	100	A, sensible

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
781	24	8 58 45 p.m.	1.1	0.005	—	17	A
782	"	9 45 39 "	2.3	0.004	—	9	"
783	"	11 28 19 "	1.7	0.005	0.003	32	B
784	25	0 22 57 a.m.	2.4	0.003	—	43	"
785	"	1 57 16 "	0.4	0.053	0.042	30	A
786	"	11 49 26 "	—	0.001	—	27	B
787	"	0 09 55 p.m.	1.6	0.020	0.020	30	A
788	"	0 18 43 "	—	0.002	—	20	B
789	"	1 01 04 "	1.1	0.021	0.020	20	A
790	"	6 09 46 "	1.1	0.002	—	33	B
791	"	8 36 41 "	—	0.001	—	50	"
792	"	11 09 34 "	—	0.050	0.030	—	A
793	"	11 09 55 "	—	0.031	0.003	20	"
794	26	2 47 19 a.m.	—	0.002	—	35	B
795	"	2 52 38 "	—	0.003	—	49	"
796	"	4 47 08 "	—	0.016	0.002	20	A
797	"	8 06 48 "	4.0	0.013	0.005	50	"
798	"	9 07 55 "	—	0.002	—	35	B
799	"	11 29 23 "	—	0.002	—	35	"
800	"	0 48 29 p.m.	—	0.003	—	23	"
801	"	3 44 44 "	—	0.003	—	26	"
802	"	4 57 36 "	—	0.005	—	25	"
803	"	5 44 52 "	—	0.002	—	25	"
804	"	8 38 06 "	—	0.002	—	25	"
805	"	11 59 27 "	3.6	0.008	—	60	"
806	27	2 38 54 a.m.	2.4	0.002	—	35	"
807	"	6 34 23 "	1.0	0.001	—	10	A
808	"	7 00 06 "	—	0.002	0.002	25	"
809	"	7 37 12 "	—	0.004	0.001	25	B
810	"	8 37 06 "	—	0.031	—	25	A
811	"	9 01 27 "	6.1	0.003	—	35	B
812	"	10 27 58 "	—	0.002	—	25	"
813	"	11 52 44 "	2.7	0.003	—	35	"
814	"	1 41 57 p.m.	—	0.002	—	—	"
815	"	1 41 59 "	—	0.011	—	8	A
816	"	1 42 45 "	—	0.005	—	3	"
817	"	1 42 49 "	—	0.005	—	3	"
818	"	1 43 13 "	—	0.004	—	—	"
819	"	1 43 16 "	—	0.007	—	—	"
820	"	2 12 20 "	2.6	0.002	—	30	B

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	JULY	h m s	sec.	mm	mm	sec.	
821	27	3 20 27 p.m.	—	0.002	—	25	B
822	"	3 29 21 "	—	0.002	—	23	"
823	"	6 13 56 "	—	0.024	—	22	A
824	"	10 11 26 "	—	0.002	—	20	B
825	"	10 20 53 "	3.8	0.003	—	40	"
826	"	10 30 03 "	1.5	0.003	—	15	"
827	"	11 48 31 "	2.7	0.007	—	55	"
828	28	3 26 54 a.m.	3.1	0.002	—	30	"
829	"	4 45 03 "	6.5	0.001	—	50	"
830	"	4 53 35 "	—	0.001	—	40	"
831	"	5 49 43 "	—	0.004	—	9	"
832	"	5 51 30 "	2.4	0.002	—	33	"
833	"	6 30 33 "	1.4	0.003	—	35	"
834	"	11 54 34 "	5.3	0.002	—	30	"
835	"	0 55 25 p.m.	3.3	0.002	—	30	"
836	"	3 34 40 "	2.5	0.002	—	25	"
837	"	6 47 21 "	2.8	0.004	—	40	"
838	"	7 05 42 "	2.5	0.002	—	35	"
839	"	9 24 00 "	—	0.002	—	35	"
840	"	9 27 51 "	—	0.003	—	25	"
841	29	6 50 31 "	—	0.003	—	50	"
842	"	9 51 08 "	—	0.004	0.003	27	"
843	"	10 43 34 "	2.2	0.008	0.005	27	A
844	30	0 10 19 a.m.	—	0.070	0.060	27	A, sensible
845	"	0 15 19 "	—	0.006	—	8	A
846	"	1 50 37 "	—	0.002	—	6	"
847	"	1 26 54 p.m.	—	0.002	0.002	23	B
848	"	3 26 52 "	—	0.002	0.002	32	"
849	"	6 28 29 "	1.8	0.010	0.007	69	"
850	"	6 29 56 "	—	0.002	—	—	"
851	"	6 30 37 p.m.	—	0.001	—	28	"
852	"	7 26 10 "	2.7	0.004	0.002	57	"
853	"	8 27 47 "	—	0.002	—	—	"
854	"	8 28 24 "	—	0.002	—	42	"
855	31	4 27 11 a.m.	—	0.004	—	34	"
856	"	8 31 56 "	0.9	0.006	0.005	34	A
857	"	2 48 56 p.m.	3.2	0.004	—	21	B
858	"	5 28 46 "	—	0.002	—	21	"
859	AUGUST 1	2 45 02 a.m.	2.1	0.003	—	43	"
860	"	5 26 04 "	2.5	0.002	—	60	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm	mm	sec.	
861	1	9 32 30 a.m.	—	0.013	—	43	B
862	"	3 20 40 p.m.	—	Very slight	—	—	"
863	"	3 27 56 "	—	"	—	—	"
864	"	6 40 43 "	2.5	"	—	24	"
865	"	11 30 41 "	—	"	—	—	"
866	2	1 28 27 a.m.	—	"	—	—	"
867	"	5 02 01 "	—	"	—	—	"
868	"	7 08 50 p.m.	—	"	—	20	"
869	"	8 42 39 "	0.0	"	—	35	"
870	"	8 47 51 "	—	0.033	—	20	A
871	3	1 41 57 a.m.	—	Very slight	—	30	B
872	"	2 06 28 "	—	"	—	35	"
873	"	3 48 24 "	—	"	—	60	"
874	"	7 27 37 "	—	"	—	31	"
875	"	9 19 14 "	—	"	—	30	"
876	"	1 02 44 p.m.	—	"	—	17	"
877	"	3 08 25 "	—	"	—	—	"
878	"	4 47 26 "	—	"	—	35	"
879	"	7 20 58 "	—	"	—	21	"
880	"	7 51 03 "	1.5	"	—	30	"
881	4	0 35 46 a.m.	1.5	"	—	26	"
882	"	3 11 06 "	—	0.002	—	20	"
883	"	4 39 58 "	—	0.003	—	20	"
884	"	6 02 40 "	—	0.002	—	20	"
885	"	7 08 27 "	—	Very slight	—	15	"
886	"	11 56 11 "	0.0	0.025	—	23	A, sensible
887	"	2 11 49 p.m.	—	Very slight	—	—	B
888	"	2 59 19 "	—	"	—	—	"
889	"	3 12 25 "	—	"	—	40	"
890	"	3 54 23 "	—	"	—	38	"
891	"	6 39 32 "	—	"	—	38	"
892	"	7 19 24 "	—	"	—	—	"
893	"	8 49 56 "	—	"	—	40	"
894	"	10 07 04 "	—	"	—	—	"
895	"	10 41 23 "	—	"	—	—	"
896	"	11 20 34 "	—	"	—	20	"
897	5	0 49 00 a.m.	—	"	—	40	"
898	"	5 24 58 "	0.0	"	—	—	A
899	"	7 37 53 "	—	"	—	20	B
900	"	10 16 14 "	—	"	—	45	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm (very slight)	mm	sec.	
901	5	2 16 24 p.m.	—	—	—	60	B
902	"	6 33 52 "	1.5	"	—	30	"
903	"	6 50 11 "	—	"	—	35	"
904	"	7 28 37 "	—	"	—	35	"
905	"	8 21 08 "	—	"	—	—	"
906	"	10 08 42 "	—	"	—	—	"
907	"	10 16 26 "	—	"	—	—	"
908	"	11 26 19 "	—	"	—	40	"
909	6	1 15 02 a.m.	—	"	—	25	"
910	"	5 21 13 "	0.0	0.066	—	20	A
911	"	6 53 30 "	0.0	0.029	—	30	"
912	"	7 34 28 "	—	Very slight	—	43	B
913	"	10 16 18 "	—	"	—	—	"
914	"	0 24 39 p.m.	—	"	—	—	"
915	"	10 03 42 "	—	"	—	—	"
916	7	7 15 47 a.m.	—	"	—	—	"
917	"	7 28 38 "	—	"	—	—	"
918	"	8 12 18 "	—	"	—	—	"
919	"	9 14 35 "	—	"	—	—	"
920	"	9 32 31 "	—	"	—	—	"
921	"	9 41 03 "	—	"	—	55	"
922	"	10 16 43 "	—	"	—	—	"
923	"	11 19 10 "	1.5	"	—	30	A
924	"	0 23 43 p.m.	0.0	0.033	—	22	A, sensible
925	"	2 00 13 "	—	Very slight	—	50	B
926	"	8 58 51 "	—	"	—	—	"
927	8	5 40 19 a.m.	—	"	—	60	"
928	"	6 45 31 "	—	"	—	—	"
929	"	1 07 01 p.m.	—	"	—	45	"
930	9	8 13 13 a.m.	—	"	—	50	"
931	"	3 49 52 p.m.	—	"	—	—	"
932	"	10 19 11 "	—	"	—	—	"
933	"	11 16 07 "	0.0	"	—	—	A
934	10	4 05 52 a.m.	0.0	"	—	—	"
935	"	8 55 26 "	—	"	—	—	B
936	"	9 54 34 "	0.0	0.060	—	20	A, sensible
937	"	9 56 58 "	0.0	0.040	—	10	A
938	"	10 16 43 "	—	Very slight	—	60	B
939	"	8 29 47 p.m.	0.0	"	—	—	A
940	12	2 52 50 a.m.	0.0	0.073	—	—	A, sensible

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	AUGUST	h m s	sec.	mm (Very slight)	mm	sec.	
941	13	10 43 12 p.m.	—	—	—	50	B
942	14	6 11 54 a.m.	—	—	—	—	—
943	—	6 45 10 p.m.	—	—	—	—	—
944	15	5 16 06 a.m.	—	—	—	—	—
945	—	5 41 06 "	—	—	—	—	—
946	16	11 06 30 "	0.0	0.018	0.003	5	A
947	17	0 21 42 "	—	0.002	0.001	35	B
948	—	2 06 54 "	—	0.005	0.003	38	—
949	18	9 31 15 "	5.8	0.003	—	43	—
950	—	7 17 01 p.m.	3.4	0.002	—	29	—
951	—	11 37 16 "	3.0	0.005	—	52	—
952	19	6 37 49 a.m.	3.3	0.002	—	15	—
953	22	5 23 01 "	—	0.001	0.001	37	—
954	23	7 54 01 "	—	0.001	—	—	—
955	—	10 09 18 "	—	0.001	—	—	—
956	—	11 19 31 "	—	0.001	—	17	—
957	—	1 46 26 p.m.	—	0.001	—	30	—
958	—	3 13 53 "	—	0.005	—	16	—
959	24	6 57 47 "	2.0	0.001	0.001	17	—
960	25	4 24 06 a.m.	1.7	0.002	0.002	31	—
961	—	7 37 05 "	—	0.001	0.001	17	—
962	—	9 01 55 "	1.0	0.004	0.003	26	—
963	—	10 32 11 "	2.2	0.001	0.001	27	—
964	—	5 25 39 p.m.	3.8	0.002	0.001	37	—
965	26	6 07 03 a.m.	—	0.002	0.001	47	—
966	—	7 38 17 "	—	0.002	0.002	58	—
967	—	10 26 25 "	0.7	0.015	0.014	35	—
968	—	10 40 17 "	—	0.002	0.001	30	—
969	27	0 30 40 "	—	0.001	—	85	—
970	—	6 04 11 p.m.	2.0	0.002	—	70	—
971	—	6 39 05 "	2.0	0.001	—	35	—
972	28	3 25 25 a.m.	—	0.002	—	50	—
973	—	4 33 18 "	1.8	0.002	—	18	—
974	—	6 01 07 "	1.8	0.002	—	31	—
975	—	10 22 58 "	—	0.001	—	12	—
976	—	3 57 51 p.m.	—	0.002	—	60	—
977	—	5 22 28 "	1.0	0.007	0.003	20	—
978	30	10 36 29 "	2.0	0.002	0.001	70	—
979	31	1 23 59 a.m.	0.3	0.042	0.028	25	A
980	SEPTer, 1	4 13 59 "	—	0.003	0.002	33	B

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm.	mm.	sec.	
981	1	4 44 36 p.m.	0.4	0.123	0.056	55	A, sensible
982	"	6 50 11 "	2.7	0.002	—	36	B
983	2	3 53 24 "	3.1	0.003	—	48	"
984	3	2 36 40 a.m.	0.0	0.011	0.003	11	A
985	"	4 39 53 "	0.0	0.013	0.002	7	"
986	"	4 41 24 "	0.0	0.086	0.065	19	A, sensible
987	"	7 08 57 "	—	0.001	—	—	B
988	"	7 09 39 "	—	0.004	—	—	"
989	"	7 10 04 "	—	0.002	—	—	"
990	"	7 10 27 "	—	0.003	—	—	"
991	"	7 10 57 "	—	0.002	—	—	"
992	"	7 22 42 "	0.0	0.030	0.013	8	A, sensible
993	"	7 22 51 "	0.0	0.042	0.023	19	"
994	"	7 40 10 "	0.0	0.037	0.018	9	"
995	"	9 01 30 "	4.3	0.002	—	28	B
996	"	9 15 06 "	—	0.003	—	29	"
997	"	11 34 09 "	2.7	0.002	—	29	"
998	"	0 59 22 p.m.	3.1	0.003	—	38	"
999	"	5 20 03 "	3.1	0.003	—	42	"
1000	"	7 00 50 "	—	0.001	—	—	"
1001	"	7 01 03 "	—	0.001	—	—	"
1002	"	7 01 23 "	—	0.001	—	—	"
1003	"	7 01 41 "	—	0.001	—	—	"
1004	4	1 11 21 a.m.	—	0.002	—	28	"
1005	"	1 30 09 "	0.7	0.005	—	10	A
1006	"	1 31 05 "	0.0	0.023	0.007	13	"
1007	"	5 48 44 "	—	0.005	—	3	"
1008	"	6 26 54 "	0.0	0.007	—	6	"
1009	"	0 10 47 p.m.	—	0.002	—	44	B
1010	5	4 08 16 a.m.	4.2	0.001	—	34	"
1011	"	8 02 34 "	—	0.001	—	67	"
1012	"	11 42 03 "	—	0.002	—	67	"
1013	"	2 16 20 p.m.	2.4	0.001	—	26	"
1014	"	4 51 36 "	—	0.001	—	30	"
1015	6	5 11 02 a.m.	0.6	0.008	0.002	14	A
1016	"	4 04 59 p.m.	2.1	0.001	—	22	B
1017	"	7 50 48 "	—	0.003	0.002	28	"
1018	"	7 51 26 "	—	0.002	0.002	28	"
1019	"	10 34 13 "	2.5	0.004	0.004	42	"
1020	7	6 46 27 a.m.	—	0.001	—	34	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
1021	7	10 24 40 a.m.	1.0	0.002	—	16	B
1022	9	0 59 44 p.m.	1.7	0.002	—	29	„
1023	10	7 19 35 a.m.	—	0.013	—	30	A
1024	„	4 05 17 p.m.	3.4	0.001	—	21	B
1025	12	2 07 13 „	0.0	0.005	—	5	A
1026	13	0 28 59 „	—	0.005	0.005	42	B
1027	„	1 39 26 „	—	0.002	0.002	36	„
1028	„	5 49 06 „	—	0.003	0.002	26	„
1029	14	9 28 36 a.m.	—	0.003	0.002	54	„
1030	„	9 26 24 p.m.	—	0.002	0.002	40	„
1031	15	7 39 52 a.m.	—	0.001	—	85	„
1032	16	1 55 30 p.m.	—	0.002	—	—	„
1033	„	1 56 18 „	—	0.001	—	—	„
1034	„	1 56 40 „	—	0.001	—	—	„
1035	„	1 56 58 „	—	0.001	—	—	„
1036	„	1 57 44 „	—	0.001	—	—	„
1037	„	1 58 12 „	—	0.001	—	—	„
1038	„	6 45 35 „	3.4	0.003	—	53	„
1039	17	8 34 09 a.m.	—	0.002	—	36	„
1040	„	10 31 35 „	—	0.003	—	44	„
1041	„	10 23 29 p.m.	1.5	0.005	—	16	„
1042	„	11 10 08 „	1.8	0.002	—	48	„
1043	„	11 50 57 „	—	0.001	—	20	„
1044	18	1 57 44 a.m.	—	0.002	—	38	„
1045	„	3 34 40 „	1.9	0.002	—	32	„
1046	„	4 43 21 „	—	0.001	—	75	„
1047	„	4 55 56 „	—	0.004	—	67	„
1048	„	8 53 24 „	—	0.001	—	26	„
1049	„	9 55 17 „	—	0.001	—	14	„
1050	„	0 43 07 p.m.	—	0.001	—	14	„
1051	„	3 24 53 „	1.6	0.002	—	60	„
1052	„	3 35 02 „	4.2	0.002	—	25	„
1053	„	5 18 01 „	—	0.003	—	60	„
1054	„	6 09 37 „	—	0.001	—	47	„
1055	„	7 48 20 „	1.7	0.002	—	22	„
1056	19	4 28 14 a.m.	5.8	0.004	—	30	„
1057	„	11 43 31 „	5.2	0.002	—	30	„
1058	20	3 36 59 „	3.8	0.001	—	23	„
1059	„	6 48 21 p.m.	—	0.001	—	33	„
1060	„	7 24 01 „	—	0.001	—	27	„

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
1061	21	1 00 35 a.m.	—	0.001	—	18	B
1062	"	2 43 42 "	—	0.001	—	22	"
1063	"	3 46 34 "	0.3	0.154	0.157	42	A, sensible
1064	"	8 42 41 "	—	0.002	—	18	B
1065	"	9 25 52 "	—	0.003	—	36	"
1066	"	8 35 08 p.m.	—	0.002	—	18	"
1067	"	11 03 23 "	1.8	0.002	—	60	"
1068	22	1 02 45 a.m.	2.7	0.002	—	24	"
1069	"	6 12 20 "	2.7	0.002	—	40	"
1070	"	7 08 44 p.m.	1.9	0.003	—	19	"
1071	23	9 23 25 "	1.4	0.003	0.002	21	"
1072	24	3 15 30 a.m.	1.3	0.004	0.002	17	"
1073	"	4 06 36 "	1.5	0.002	—	18	"
1074	"	4 52 51 "	2.3	0.003	0.004	26	"
1075	"	6 32 17 "	—	0.002	0.001	16	"
1076	"	6 50 43 "	1.4	0.002	—	36	"
1077	"	7 08 37 "	1.1	0.003	0.001	40	"
1078	"	9 18 51 "	2.3	0.003	—	29	"
1079	"	10 28 46 "	2.8	0.002	—	28	"
1080	"	10 37 20 "	—	0.002	—	36	"
1081	"	0 17 45 p.m.	2.7	0.003	0.002	26	"
1082	"	0 18 25 "	2.7	0.005	0.004	33	"
1083	"	1 31 46 "	—	0.003	—	43	"
1084	"	3 01 10 "	1.7	0.003	0.001	31	"
1085	"	4 57 43 "	1.6	0.007	0.003	43	"
1086	"	6 41 42 "	1.9	0.002	0.002	40	"
1087	"	8 13 21 "	3.6	0.004	0.002	36	"
1088	"	8 46 47 "	0.5	0.011	0.007	25	A
1089	25	0 34 52 a.m.	—	0.002	0.001	37	B
1090	"	6 12 56 "	—	0.002	—	—	"
1091	"	6 20 38 "	—	0.002	—	—	"
1092	"	6 44 34 "	—	0.003	—	—	"
1093	"	0 09 36 p.m.	9.7	0.004	0.002	64	"
1094	"	2 24 08 "	—	0.001	—	—	"
1095	"	2 24 30 "	1.4	0.004	0.003	36	"
1096	"	2 51 08 "	—	0.001	—	24	"
1097	"	3 29 16 "	—	0.001	—	20	"
1098	"	3 36 01 "	—	0.001	—	25	"
1099	"	3 49 25 "	1.8	0.003	0.002	54	"
1100	"	4 54 39 "	—	0.002	0.002	35	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
1101	25	4 56 34 p.m.	8.1	0.003	0.002	33	B
1102	"	5 45 35 "	6.0	0.003	0.002	120	"
1103	"	7 18 32 "	—	0.001	—	46	"
1104	"	7 38 06 "	2.4	0.003	—	30	"
1105	"	8 51 50 "	0.4	0.068	—	20	A, sensible
1106	"	10 31 04 "	2.1	0.004	0.002	42	B
1107	26	1 10 58 a.m.	—	0.001	—	29	"
1108	"	1 34 32 "	2.9	0.003	0.002	38	"
1109	"	2 30 02 "	1.7	0.002	0.002	25	"
1110	"	2 50 37 "	6.0	0.002	—	33	"
1111	"	4 06 02 "	6.4	0.003	0.003	40	"
1112	"	6 02 52 "	—	0.002	—	27	"
1113	"	6 10 34 "	6.8	0.002	0.001	58	"
1114	"	6 40 15 "	—	0.001	—	49	"
1115	"	7 11 25 "	4.8	0.005	0.004	38	"
1116	"	7 14 51 "	—	0.002	—	47	"
1117	"	7 54 54 "	3.1	0.002	—	46	"
1118	"	9 05 58 "	—	0.001	—	43	"
1119	"	9 28 42 "	2.7	0.001	—	28	"
1120	"	10 22 29 "	1.8	0.003	0.002	28	"
1121	"	11 49 51 "	5.4	0.005	0.006	42	"
1122	"	1 20 09 p.m.	5.3	0.002	—	27	"
1123	"	3 03 12 "	2.6	0.003	0.002	35	"
1124	"	3 57 49 "	6.4	0.002	—	23	"
1125	"	4 39 02 "	2.2	0.001	—	22	"
1126	"	5 42 14 "	3.0	0.005	—	60	"
1127	"	6 23 33 "	—	0.001	—	43	"
1128	"	7 09 47 "	—	0.002	—	77	"
1129	"	11 24 57 "	—	0.001	—	19	"
1130	"	11 25 34 "	3.6	0.001	—	39	"
1131	27	2 04 16 a.m.	1.8	0.002	—	32	"
1132	"	2 15 54 "	—	0.001	—	40	"
1133	"	10 52 01 "	1.9	0.002	0.002	25	"
1134	"	10 52 28 "	1.9	0.002	0.001	38	"
1135	"	11 23 30 "	—	0.001	—	37	"
1136	"	6 29 25 p.m.	1.7	0.002	0.003	43	"
1137	"	10 29 18 "	—	0.002	—	33	"
1138	28	1 53 23 a.m.	2.8	0.001	—	35	"
1139	"	10 50 50 "	2.1	0.001	—	27	"
1140	"	10 51 20 "	—	0.001	—	26	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal	Trans- verse.		
	SEPTer	h m s	sec.	mm	mm	sec.	
1141	28	11 17 18 a.m.	—	0.001	—	37	B
1142	"	7 32 34 p.m.	—	0.001	—	28	"
1143	"	7 34 01 "	—	0.001	—	37	"
1144	29	5 05 56 a.m.	—	0.001	—	29	"
1145	"	6 14 42 "	—	0.001	—	27	"
1146	"	7 26 39 "	—	0.001	—	19	"
1147	"	8 37 46 "	1.9	0.001	—	28	"
1148	"	10 26 24 "	—	0.001	—	28	"
1149	"	11 53 07 "	—	0.004	0.005	40	"
1150	"	1 48 33 p.m.	—	0.001	—	24	"
1151	"	4 55 47 "	—	0.002	—	29	"
1152	"	8 58 29 "	1.5	0.002	—	23	"
1153	"	11 10 38 "	0.0	0.049	0.035	23	A, sensible
1154	"	11 23 30 "	0.0	0.006	0.003	5	A
1155	"	11 40 01 "	—	0.002	0.002	27	B
1156	30	9 07 52 a.m.	6.4	0.002	0.002	30	"
1157	"	9 27 10 "	6.5	0.002	0.004	37	"
1158	"	10 01 42 "	1.8	0.005	0.005	16	A
1159	"	10 57 19 "	4.7	0.003	0.005	38	B
1160	"	3 12 12 p.m.	6.3	0.004	0.003	57	"
1161	"	5 26 39 "	4.0	0.004	0.005	28	"
1162	"	5 49 19 "	3.2	0.004	0.003	37	"
1163	OCTOBER 1	1 25 49 a.m.	5.3	0.003	0.002	30	"
1164	"	6 44 46 "	3.7	0.003	0.002	37	"
1165	"	6 40 39 p.m.	3.9	0.001	—	23	"
1166	"	10 46 46 "	3.5	0.003	0.002	21	"
1167	2	3 19 27 a.m.	0.0	0.016	0.006	9	A
1168	"	7 21 17 "	4.0	0.004	0.004	28	B
1169	"	9 16 19 "	—	0.003	—	—	"
1170	"	9 47 11 "	—	0.001	—	—	"
1171	"	11 22 40 "	—	0.001	—	—	"
1172	"	11 23 19 "	—	0.001	—	—	"
1173	"	11 27 51 "	—	0.002	—	—	"
1174	"	11 29 23 "	—	0.001	—	—	"
1175	"	11 35 26 "	—	0.002	—	—	"
1176	"	11 37 30 "	—	0.001	—	—	"
1177	"	11 40 27 "	—	0.003	—	—	"
1178	"	11 42 05 "	—	0.002	—	—	"
1179	"	11 44 50 "	—	0.002	—	—	"
1180	"	11 45 25 "	—	0.009	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1181	2	11 46 19 a.m.	—	0.001	—	—	B
1182	"	11 48 18 "	—	0.002	—	—	"
1183	"	11 50 02 "	—	0.001	—	—	"
1184	"	11 51 47 "	—	0.001	—	—	"
1185	"	11 52 21 "	—	0.005	—	—	"
1186	"	11 52 56 "	—	0.002	—	—	"
1187	"	11 55 59 "	—	0.004	—	—	"
1188	"	11 58 09 "	—	0.001	—	—	"
1189	"	11 58 19 "	—	0.003	—	—	"
1190	"	11 59 05 "	—	0.001	—	—	"
1191	"	11 59 52 "	—	0.001	—	—	"
1192	"	0 00 35 p.m.	—	0.002	—	—	"
1193	"	0 01 45 "	—	0.001	—	—	"
1194	"	0 02 01 "	—	0.003	—	—	"
1195	"	0 03 14 "	—	0.001	—	—	"
1196	"	0 03 36 "	—	0.002	—	—	"
1197	"	0 04 20 "	—	0.004	—	—	"
1198	"	0 04 42 "	—	0.002	—	—	"
1199	"	0 05 47 "	—	0.003	—	—	"
1200	"	0 06 02 "	—	0.003	—	—	"
1201	"	0 06 37 "	—	0.002	—	—	"
1202	"	0 07 34 "	—	0.004	—	—	"
1203	"	0 08 09 "	—	0.003	—	—	"
1204	"	0 08 23 "	—	0.002	—	—	"
1205	"	0 09 20 "	—	0.002	—	—	"
1206	"	0 09 34 "	—	0.003	—	—	"
1207	"	0 09 50 "	—	0.003	—	—	"
1208	"	0 10 35 "	—	0.005	—	—	"
1209	"	0 10 50 "	—	0.004	—	—	"
1210	"	0 11 07 "	—	0.004	—	—	"
1211	"	0 11 27 "	—	0.002	—	—	"
1212	"	0 11 45 "	—	0.006	—	—	"
1213	"	0 12 24 "	—	0.003	—	—	"
1214	"	0 12 51 "	—	0.005	—	—	"
1215	"	0 13 06 "	—	0.002	—	—	"
1216	"	0 13 52 "	—	0.003	—	—	"
1217	"	0 14 09 "	—	0.003	—	—	"
1218	"	0 15 30 "	—	0.005	—	—	"
1219	"	0 15 51 "	—	0.005	—	—	"
1220	"	0 16 18 "	—	0.002	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1221	2	0 16 44 p.m.	—	0.005	—	—	B
1222	"	0 17 03 "	—	0.004	—	—	"
1223	"	0 17 20 "	—	0.005	—	—	"
1224	"	0 17 52 "	—	0.003	—	—	"
1225	"	0 18 21 "	—	0.005	—	—	"
1226	"	0 19 00 "	—	0.006	—	—	"
1227	"	0 19 11 "	—	0.005	—	—	"
1228	"	0 19 50 "	—	0.002	—	—	"
1229	"	0 20 09 "	—	0.005	—	—	"
1230	"	0 21 02 "	—	0.001	—	—	"
1231	"	0 21 19 "	—	0.003	—	—	"
1232	"	0 21 47 "	—	0.005	—	—	"
1233	"	0 22 02 "	—	0.005	—	—	"
1234	"	0 22 28 "	—	0.005	—	—	"
1235	"	0 23 00 "	—	0.005	—	—	"
1236	"	0 23 15 "	—	0.002	—	—	"
1237	"	0 23 37 "	—	0.003	—	—	"
1238	"	0 24 07 "	—	0.005	—	—	"
1239	"	0 24 43 "	—	0.002	—	—	"
1240	"	0 25 11 "	—	0.009	—	—	"
1241	"	0 25 34 "	—	0.006	—	—	"
1242	"	0 26 04 "	—	0.002	—	—	"
1243	"	0 26 42 "	—	0.008	—	—	"
1244	"	0 28 04 "	—	0.007	—	—	"
1245	"	0 28 57 "	—	0.007	—	—	"
1246	"	0 29 08 "	—	0.003	—	—	"
1247	"	0 29 41 "	—	0.003	—	—	"
1248	"	0 30 21 "	—	0.003	—	—	"
1249	"	0 30 41 "	—	0.002	—	—	"
1250	"	0 30 55 "	—	0.004	—	—	"
1251	"	0 31 14 "	—	0.003	—	—	"
1252	"	0 31 24 "	—	0.005	—	—	"
1253	"	0 31 53 "	—	0.003	—	—	"
1254	"	0 32 30 "	—	0.002	—	—	"
1255	"	0 32 58 "	—	0.002	—	—	"
1256	"	0 33 10 "	—	0.003	—	—	"
1257	"	0 33 54 "	—	0.004	—	—	"
1258	"	0 34 21 "	—	0.005	—	—	"
1259	"	0 34 43 "	—	0.002	—	—	"
1260	"	0 35 53 "	—	0.007	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1261	2	0 36 11 p.m.	—	0.003	—	—	B
1262	"	0 36 28 "	—	0.005	—	—	"
1263	"	0 36 59 "	—	0.011	—	—	"
1264	"	0 37 30 "	—	0.004	—	—	"
1265	"	0 37 55 "	—	0.002	—	—	"
1266	"	0 38 56 "	—	0.006	—	—	"
1267	"	0 39 19 "	—	0.005	—	—	"
1268	"	0 39 46 "	—	0.004	—	—	"
1269	"	0 40 00 "	—	0.005	—	—	"
1270	"	0 40 24 "	—	0.003	—	—	"
1271	"	0 40 54 "	—	0.005	—	—	"
1272	"	0 41 25 "	—	0.002	—	—	"
1273	"	0 41 52 "	—	0.003	—	—	"
1274	"	0 42 13 "	—	0.005	—	—	"
1275	"	0 42 35 "	—	0.009	—	—	"
1276	"	0 43 14 "	—	0.005	—	—	"
1277	"	0 43 30 "	—	0.003	—	—	"
1278	"	0 43 47 "	—	0.003	—	—	"
1279	"	0 44 22 "	—	0.007	—	—	"
1280	"	0 45 05 "	—	0.004	—	—	"
1281	"	0 45 26 "	—	0.008	—	—	"
1282	"	0 45 50 "	—	0.003	—	—	"
1283	"	0 46 17 "	—	0.003	—	—	"
1284	"	0 46 41 "	—	0.003	—	—	"
1285	"	0 46 53 "	—	0.003	—	—	"
1286	"	0 47 39 "	—	0.006	—	—	"
1287	"	0 48 26 "	—	0.006	—	—	"
1288	"	0 49 09 "	—	0.003	—	—	"
1289	"	0 49 33 "	—	0.004	—	—	"
1290	"	0 49 56 "	—	0.003	—	—	"
1291	"	0 50 15 "	—	0.006	—	—	"
1292	"	0 50 44 "	—	0.002	—	—	"
1293	"	0 51 09 "	—	0.007	—	—	"
1294	"	0 51 37 "	—	0.007	—	—	"
1295	"	0 52 18 "	—	0.003	—	—	"
1296	"	0 52 35 "	—	0.006	—	—	"
1297	"	0 52 57 "	—	0.006	—	—	"
1298	"	0 53 14 "	—	0.003	—	—	"
1299	"	0 53 41 "	—	0.009	—	—	"
1300	"	0 54 05 "	—	0.002	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1301	2	0 54 37 p.m.	—	0.005	—	—	B
1302	"	0 55 35 "	—	0.003	—	—	"
1303	"	0 55 53 "	—	0.002	—	—	"
1304	"	0 56 14 "	—	0.003	—	—	"
1305	"	0 56 40 "	—	0.002	—	—	"
1306	"	0 57 07 "	—	0.001	—	—	"
1307	"	0 57 24 "	—	0.001	—	—	"
1308	"	0 57 37 "	—	0.005	—	—	"
1309	"	0 58 05 "	—	0.008	—	—	"
1310	"	0 58 25 "	—	0.003	—	—	"
1311	"	0 58 55 "	—	0.002	—	—	"
1312	"	0 59 11 "	—	0.004	—	—	"
1313	"	0 59 30 "	—	0.005	—	—	"
1314	"	0 59 49 "	—	0.006	—	—	"
1315	"	1 00 09 "	—	0.006	—	—	"
1316	"	1 00 30 "	—	0.005	—	—	"
1317	"	1 00 50 "	—	0.005	—	—	"
1318	"	1 01 16 "	—	0.008	—	—	"
1319	"	1 01 44 "	—	0.002	—	—	"
1320	"	1 01 55 "	—	0.004	—	—	"
1321	"	1 02 36 "	—	0.005	—	—	"
1322	"	1 02 57 "	—	0.001	—	—	"
1323	"	1 03 12 "	—	0.003	—	—	"
1324	"	1 03 31 "	—	0.001	—	—	"
1325	"	1 03 43 "	—	0.002	—	—	"
1326	"	1 04 27 "	—	0.005	—	—	"
1327	"	1 04 39 "	—	0.007	—	—	"
1328	"	1 37 12 "	—	0.019	—	—	"
1329	"	1 56 31 "	—	0.015	—	—	"
1330	"	2 09 50 "	—	0.015	—	—	"
1331	"	2 10 42 "	—	0.015	—	—	"
1332	"	2 44 16 "	—	0.015	—	—	"
1333	"	2 44 29 "	—	0.011	—	—	"
1334	"	2 44 44 "	—	0.011	—	—	"
1335	"	2 45 23 "	—	0.013	—	—	"
1336	"	2 46 35 "	—	0.011	—	—	"
1337	"	2 46 53 "	—	0.013	—	—	"
1338	"	3 02 09 "	—	0.013	—	—	"
1339	"	3 03 10 "	—	0.012	—	—	"
1340	"	3 03 45 "	—	0.011	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm		
1341	2	3 07 02 p.m.	—	0.011	—	(Between 1 ^h 04 ^m 39 ^s and 4 ^h 18 ^m 56 ^s p.m., the small eruptions were continuous, and Nos. 1327 to 1376 are only the more conspicuous of the B-type earthquakes, which occurred within the time interval in question.)	B
1342	"	3 07 28 "	—	0.009	—		"
1343	"	3 27 07 "	—	0.010	—		"
1344	"	3 28 33 "	—	0.008	—		"
1345	"	3 29 28 "	—	0.009	—		"
1346	"	3 30 32 "	—	0.009	—		"
1347	"	3 31 39 "	—	0.009	—		"
1348	"	3 32 27 "	—	0.018	—		"
1349	"	3 33 33 "	—	0.011	—		"
1350	"	3 34 17 "	—	0.011	—		"
1351	"	3 35 59 "	—	0.008	—		"
1352	"	3 38 32 "	—	0.008	—		"
1353	"	3 39 25 "	—	0.009	—		"
1354	"	3 40 10 "	—	0.008	—		"
1355	"	3 41 32 "	—	0.008	—		"
1356	"	3 54 22 "	—	0.027	—		"
1357	"	3 55 03 "	—	0.011	—		"
1358	"	3 55 18 "	—	0.011	—		"
1359	"	3 55 39 "	—	0.013	—		"
1360	"	3 55 52 "	—	0.013	—		"
1361	"	3 56 06 "	—	0.013	—		"
1362	"	3 56 28 "	—	0.011	—		"
1363	"	3 56 43 "	—	0.012	—		"
1364	"	3 58 27 "	—	0.022	—		"
1365	"	3 58 44 "	—	0.012	—		"
1366	"	3 58 59 "	—	0.026	—		"
1367	"	3 59 52 "	—	0.015	—		"
1368	"	4 08 42 "	—	0.017	—		"
1369	"	4 09 28 "	—	0.009	—		"
1370	"	4 10 23 "	—	0.005	—		"
1371	"	4 12 25 "	—	0.004	—		"
1372	"	4 12 53 "	—	0.005	—		"
1373	"	4 13 19 "	—	0.005	—		"
1374	"	4 14 18 "	—	0.009	—		"
1375	"	4 15 54 "	—	0.010	—		"
1376	"	4 18 56 "	—	0.003	—		"
1377	"	4 19 51 "	—	0.002	—		"
1378	"	4 20 35 "	—	0.002	—		"
1379	"	4 21 34 "	—	0.001	—		"
1380	"	4 22 28 "	—	0.001	—		"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1381	2	4 24 03 p.m.	—	0.001	—	—	B
1382	"	4 25 01 "	—	0.001	—	—	"
1383	"	4 26 15 "	—	0.001	—	—	"
1384	"	4 27 59 "	—	0.001	—	—	"
1385	"	4 28 38 "	—	0.001	—	—	"
1386	"	4 29 05 "	—	0.001	—	—	"
1387	"	4 30 15 "	—	0.001	—	—	"
1388	"	4 32 03 "	—	0.003	—	—	"
1389	"	4 32 40 "	—	0.001	—	—	"
1390	"	4 33 11 "	—	0.001	—	—	"
1391	"	4 34 25 "	—	0.001	—	—	"
1392	"	4 35 26 "	—	0.001	—	—	"
1393	"	4 36 19 "	—	0.001	—	—	"
1394	"	4 37 08 "	—	0.001	—	—	"
1395	"	4 37 38 "	—	0.001	—	—	"
1396	"	4 38 04 "	—	0.001	—	—	"
1397	"	4 39 24 "	—	0.001	—	—	"
1398	"	4 40 30 "	—	0.009	—	—	"
1399	"	4 40 59 "	—	0.001	—	—	"
1400	"	4 41 39 "	—	0.001	—	—	"
1401	"	4 42 15 "	—	0.002	—	—	"
1402	"	4 42 26 "	—	0.001	—	—	"
1403	"	4 42 40 "	—	0.001	—	—	"
1404	"	4 43 40 "	—	0.002	—	—	"
1405	"	4 45 01 "	—	0.003	—	—	"
1406	"	4 46 39 "	—	0.001	—	—	"
1407	"	4 46 57 "	—	0.002	—	—	"
1408	"	4 48 12 "	—	0.011	—	—	"
1409	"	4 48 51 "	—	0.005	—	—	"
1410	"	4 49 30 "	—	0.002	—	—	"
1411	"	4 49 50 "	—	0.005	—	—	"
1412	"	4 50 04 "	—	0.001	—	—	"
1413	"	4 50 29 "	—	0.002	—	—	"
1414	"	4 51 05 "	—	0.004	—	—	"
1415	"	4 51 29 "	—	0.003	—	—	"
1416	"	4 52 34 "	—	0.001	—	—	"
1417	"	4 53 33 "	—	0.001	—	—	"
1418	"	4 53 50 "	—	0.001	—	—	"
1419	"	4 54 59 "	—	0.001	—	—	"
1420	"	4 57 24 "	—	0.004	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1421	2	4 59 27 p.m.	—	0.001	—	—	B
1422	"	5 00 11 "	—	0.001	—	—	"
1423	"	5 00 37 "	—	0.004	—	—	"
1424	"	5 02 03 "	—	0.001	—	—	"
1425	"	5 02 58 "	—	0.001	—	—	"
1426	"	5 03 18 "	—	0.001	—	—	"
1427	"	5 04 34 "	—	0.001	—	—	"
1428	"	5 04 58 "	—	0.001	—	—	"
1429	"	5 06 36 "	—	0.009	—	—	"
1430	"	5 07 08 "	—	0.004	—	—	"
1431	"	5 09 59 "	—	0.001	—	—	"
1432	"	5 16 05 "	—	0.001	—	—	"
1433	"	5 19 28 "	—	0.001	—	—	"
1434	"	5 20 50 "	—	0.001	—	—	"
1435	"	5 22 44 "	—	0.001	—	—	"
1436	"	5 23 00 "	—	0.001	—	—	"
1437	"	5 24 06 "	—	0.001	—	—	"
1438	"	5 26 39 "	—	0.002	—	—	"
1439	"	5 26 50 "	—	0.001	—	—	"
1440	"	5 29 32 "	—	0.001	—	—	"
1441	"	5 31 39 "	—	0.001	—	—	"
1442	"	5 44 12 "	—	0.001	—	—	"
1443	"	5 51 55 "	—	0.001	—	—	"
1444	"	5 53 35 "	—	0.001	—	—	"
1445	"	6 04 59 "	—	0.002	—	—	"
1446	"	6 08 06 "	—	0.001	—	—	"
1447	"	6 10 52 "	—	0.001	—	—	"
1448	"	6 30 11 "	—	0.001	—	—	"
1449	"	6 31 20 "	—	0.018	—	—	"
1450	"	6 48 12 "	—	0.030	—	—	"
1451	"	7 00 15 "	—	0.001	—	—	"
1452	"	7 05 24 "	—	0.003	—	—	"
1453	"	7 14 12 "	—	0.001	—	—	"
1454	"	7 18 45 "	—	0.003	—	—	"
1455	"	7 19 00 "	—	0.014	—	—	"
1456	"	7 19 17 "	—	0.005	—	—	"
1457	"	7 21 56 "	—	0.004	—	—	"
1458	"	7 23 48 "	—	0.002	—	—	"
1459	"	8 28 25 "	2.3	0.003	—	30	"
1460	"	8 32 17 "	3.2	0.001	—	21	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1461	2	8 36 05 p.m.	3.8	0.002	—	34	B
1462	"	8 44 52 "	3.4	0.002	—	25	"
1463	"	9 18 54 "	3.4	0.006	—	39	"
1464	"	10 19 34 "	3.2	0.001	—	25	"
1465	"	11 07 47 "	5.1	0.008	—	—	"
1466	"	11 08 12 "	—	0.002	—	—	"
1467	"	11 10 46 "	3.8	0.002	—	14	"
1468	3	0 45 13 a.m.	4.2	0.005	—	40	"
1469	"	2 55 00 "	3.3	0.002	—	—	"
1470	"	2 55 25 "	3.3	0.001	—	34	"
1471	"	3 40 05 "	5.8	0.010	—	60	"
1472	"	3 41 34 "	5.8	0.009	—	—	"
1473	"	3 42 16 "	2.5	0.001	—	—	"
1474	"	3 42 45 "	5.8	0.015	—	58	"
1475	"	4 01 30 "	3.7	0.005	—	42	"
1476	"	5 08 58 "	5.7	0.002	—	32	"
1477	"	5 49 16 "	5.7	0.012	—	—	"
1478	"	5 49 51 "	—	0.002	—	—	"
1479	"	5 49 58 "	—	0.002	—	—	"
1480	"	5 50 06 "	—	0.002	—	—	"
1481	"	7 29 05 "	2.5	0.002	—	26	"
1482	"	8 22 41 "	4.5	0.009	—	35	"
1483	"	8 42 04 "	—	0.001	—	23	"
1484	"	9 02 06 "	5.5	0.005	—	—	"
1485	"	9 02 41 "	4.4	0.002	—	18	"
1486	"	11 03 14 "	3.7	0.003	—	19	"
1487	"	11 11 10 "	—	0.004	—	—	"
1488	"	11 11 25 "	—	0.001	—	—	"
1489	"	11 11 35 "	—	0.003	—	—	"
1490	"	1 11 20 p.m.	3.4	0.014	—	60	"
1491	"	1 14 51 "	2.4	0.015	—	59	"
1492	"	4 19 48 "	—	0.001	—	—	"
1493	"	4 20 01 "	3.3	0.003	—	27	"
1494	"	11 09 31 "	3.8	0.002	—	—	"
1495	"	11 09 58 "	3.8	0.002	—	20	"
1496	4	0 27 20 a.m.	3.8	0.002	—	38	"
1497	"	0 59 08 "	3.5	0.002	—	30	"
1498	"	1 16 47 "	3.5	0.003	—	42	"
1499	"	1 27 02 "	3.2	0.003	—	22	"
1500	"	2 54 08 "	3.3	0.003	—	32	"

No.	Date. (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1501	4	3 54 57 a.m.	3.1	0.002	—	23	B
1502	"	10 27 58 "	3.4	0.002	—	—	"
1503	"	10 28 08 "	3.2	0.003	—	—	"
1504	"	10 28 32 "	—	0.001	—	—	"
1505	"	11 14 58 "	3.4	0.002	—	41	"
1506	"	11 44 10 "	3.6	0.002	—	24	"
1507	"	1 10 05 p.m.	3.6	0.001	—	30	"
1508	"	1 53 37 "	3.6	0.002	—	20	"
1509	"	3 13 11 "	3.3	0.001	—	24	"
1510	"	3 29 21 "	3.3	0.002	—	—	"
1511	"	3 29 32 "	3.3	0.003	—	—	"
1512	"	3 29 51 "	—	0.001	—	—	"
1513	"	3 50 22 "	3.1	0.002	—	20	"
1514	"	6 23 32 "	—	0.001	—	15	"
1515	"	8 42 25 "	3.4	0.005	—	29	"
1516	"	8 54 04 "	4.0	0.003	—	25	"
1517	"	9 31 31 "	3.4	0.001	—	25	"
1518	"	10 20 55 "	—	0.002	—	9	"
1519	"	10 22 10 "	—	0.001	—	15	"
1520	"	11 19 17 "	—	0.001	—	24	"
1521	"	11 38 51 "	—	0.002	—	32	"
1522	"	11 44 00 "	4.1	0.002	—	19	"
1523	"	11 57 42 "	—	0.002	—	30	"
1524	5	0 01 24 a.m.	—	0.001	—	29	"
1525	"	0 03 54 "	—	0.001	—	16	"
1526	"	0 05 17 "	—	0.001	—	12	"
1527	"	0 06 19 "	—	0.001	—	18	"
1528	"	0 06 43 "	3.0	0.002	—	—	"
1529	"	0 06 54 "	3.0	0.001	—	—	"
1530	"	0 07 37 "	—	0.001	—	27	"
1531	"	0 13 24 "	—	0.001	—	15	"
1532	"	0 16 26 "	—	0.001	—	15	"
1533	"	0 29 01 "	4.0	0.001	—	25	"
1534	"	0 34 05 "	4.3	0.001	—	20	"
1535	"	0 46 01 "	—	0.001	—	25	"
1536	"	1 02 21 "	2.2	0.001	—	17	"
1537	"	1 02 42 "	2.2	0.002	—	22	"
1538	"	1 03 46 "	—	0.012	—	4	A
1539	"	1 25 43 "	—	0.001	—	—	B
1540	"	1 26 00 "	—	0.001	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1541	5	1 40 35 a.m.	—	0.001	—	28	B
1542	"	1 41 07 "	—	0.001	—	25	"
1543	"	1 42 28 "	—	0.001	—	—	"
1544	"	1 43 27 "	—	0.001	—	32	"
1545	"	1 49 33 "	—	0.002	—	19	"
1546	"	1 51 50 "	—	0.001	—	—	"
1547	"	1 52 02 "	—	0.002	—	23	"
1548	"	1 58 58 "	—	0.001	—	20	"
1549	"	2 00 38 "	—	0.001	—	27	"
1550	"	2 01 08 "	4.5	0.002	—	25	"
1551	"	2 04 31 "	3.0	0.002	—	32	"
1552	"	2 05 06 "	4.5	0.001	—	23	"
1553	"	2 10 14 "	—	0.002	—	12	"
1554	"	2 10 26 "	—	0.001	—	19	"
1555	"	2 14 03 "	—	0.001	—	21	"
1556	"	2 14 24 "	—	0.001	—	23	"
1557	"	2 23 35 "	—	0.001	—	13	"
1558	"	2 35 05 "	—	0.001	—	24	"
1559	"	3 00 27 "	—	0.001	—	24	"
1560	"	3 42 38 "	3.0	0.001	—	20	"
1561	"	3 44 01 "	—	0.001	—	16	"
1562	"	3 46 11 "	—	0.001	—	14	"
1563	"	3 48 32 "	—	0.001	—	17	"
1564	"	3 49 44 "	—	0.001	—	20	"
1565	"	3 51 45 "	—	0.001	—	—	"
1566	"	3 51 48 "	—	0.001	—	15	"
1567	"	3 52 43 "	—	0.001	—	17	"
1568	"	4 05 06 "	—	0.001	—	17	"
1569	"	4 05 26 "	0.0	0.015	—	7	A
1570	"	4 09 45 "	—	0.001	—	—	B
1571	"	4 10 06 "	—	0.001	—	13	"
1572	"	4 10 22 "	—	0.001	—	13	"
1573	"	4 10 39 "	—	0.002	—	13	"
1574	"	4 11 05 "	—	0.002	—	17	"
1575	"	4 13 04 "	—	0.002	—	16	"
1576	"	4 17 07 "	—	0.002	—	17	"
1577	"	4 18 41 "	—	0.001	—	23	"
1578	"	4 19 30 "	—	0.001	—	—	"
1579	"	4 19 42 "	—	0.001	—	—	"
1580	"	4 20 00 "	—	0.001	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1581	5	4 20 15 a.m.	—	0.001	—	—	B
1582	"	4 20 41 "	—	0.001	—	—	"
1583	"	4 21 04 "	—	0.001	—	—	"
1584	"	4 21 25 "	—	0.001	—	—	"
1585	"	4 21 57 "	—	0.001	—	—	"
1586	"	4 22 16 "	—	0.001	—	—	"
1587	"	4 22 33 "	—	0.001	—	—	"
1588	"	4 23 04 "	3.3	0.003	—	19	"
1589	"	4 24 10 "	—	0.002	—	—	"
1590	"	4 25 43 "	—	0.001	—	—	"
1591	"	4 26 08 "	—	0.001	—	—	"
1592	"	4 26 28 "	—	0.001	—	—	"
1593	"	4 26 58 "	2.7	0.002	—	—	"
1594	"	4 27 21 "	3.0	0.002	—	—	"
1595	"	4 27 39 "	—	0.001	—	—	"
1596	"	4 28 55 "	—	—	—	—	"
1597	"	4 29 11 "	—	0.001	—	—	"
1598	"	4 29 29 "	—	0.001	—	—	"
1599	"	4 30 23 "	—	0.001	—	—	"
1600	"	4 30 32 "	—	0.011	—	—	"
1601	"	4 31 10 "	—	0.001	—	—	"
1602	"	4 32 01 "	—	0.002	—	—	"
1603	"	4 33 37 "	—	0.001	—	—	"
1604	"	4 33 53 "	—	0.001	—	—	"
1605	"	4 34 12 "	—	0.001	—	—	"
1606	"	4 34 34 "	—	0.001	—	—	"
1607	"	4 34 54 "	—	0.001	—	—	"
1608	"	4 35 11 "	—	0.001	—	—	"
1609	"	4 35 20 "	—	0.002	—	—	"
1610	"	4 35 57 "	—	0.001	—	—	"
1611	"	4 36 15 "	—	0.001	—	—	"
1612	"	4 37 15 "	—	0.001	—	—	"
1613	"	4 38 02 "	—	0.001	—	—	"
1614	"	4 38 33 "	—	0.001	—	—	"
1615	"	4 39 10 "	—	0.001	—	—	"
1616	"	4 39 20 "	—	0.001	—	—	"
1617	"	4 39 59 "	—	0.001	—	—	"
1618	"	4 40 20 "	—	0.002	—	—	"
1619	"	4 40 50 "	—	0.002	—	—	"
1620	"	4 41 06 "	—	0.001	—	—	"

No.	Date (1911).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1621	5	4 41 50 a.m.	—	0.002	—	—	B
1622	"	4 42 48 "	—	0.002	—	—	"
1623	"	4 44 19 "	—	0.002	—	—	"
1624	"	4 45 02 "	—	0.001	—	—	"
1625	"	4 45 16 "	—	0.002	—	—	"
1626	"	4 49 16 "	—	0.002	—	—	"
1627	"	4 50 13 "	—	0.001	—	—	"
1628	"	4 50 24 "	—	0.001	—	—	"
1629	"	4 52 21 "	—	0.001	—	—	"
1630	"	4 53 26 "	—	0.001	—	—	"
1631	"	4 54 10 "	—	0.001	—	—	"
1632	"	4 54 27 "	—	0.001	—	—	"
1633	"	4 55 07 "	—	0.001	—	—	"
1634	"	4 55 24 "	—	0.001	—	—	"
1635	"	4 55 59 "	—	0.001	—	—	"
1636	"	4 57 03 "	—	0.001	—	—	"
1637	"	4 57 34 "	—	0.001	—	—	"
1638	"	5 02 40 "	—	0.001	—	—	"
1639	"	5 02 55 "	—	0.001	—	—	"
1640	"	5 03 43 "	—	0.001	—	—	"
1641	"	5 04 50 "	—	0.001	—	—	"
1642	"	5 06 09 "	—	0.001	—	—	"
1643	"	5 07 22 "	—	0.001	—	—	"
1644	"	5 07 34 "	—	0.001	—	—	"
1645	"	5 09 53 "	—	0.001	—	—	"
1646	"	5 11 07 "	—	0.001	—	—	"
1647	"	5 11 33 "	—	0.001	—	—	"
1648	"	5 12 17 "	—	0.001	—	—	"
1649	"	5 12 41 "	—	0.001	—	—	"
1650	"	5 13 00 "	—	0.001	—	—	"
1651	"	5 14 43 "	—	0.001	—	—	"
1652	"	5 15 23 "	—	0.001	—	—	"
1653	"	5 15 44 "	—	0.001	—	—	"
1654	"	5 16 08 "	—	0.001	—	—	"
1655	"	5 17 46 "	—	0.001	—	—	"
1656	"	5 18 40 "	—	0.001	—	—	"
1657	"	5 19 35 "	—	0.001	—	—	"
1658	"	5 19 52 "	—	0.001	—	—	"
1659	"	5 20 54 "	—	0.001	—	—	"
1660	"	5 21 13 "	—	0.001	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1661	5	5 21 25 a.m.	—	0.001	—	—	B
1662	"	5 21 40 "	—	0.001	—	—	"
1663	"	5 22 02 "	—	0.001	—	—	"
1664	"	5 22 26 "	—	0.002	—	—	"
1665	"	5 24 46 "	—	0.001	—	—	"
1666	"	5 25 42 "	—	0.001	—	—	"
1667	"	5 27 51 "	—	0.001	—	—	"
1668	"	5 28 32 "	—	0.001	—	—	"
1668	"	5 29 03 "	—	0.001	—	—	"
1670	"	5 29 33 "	—	0.001	—	—	"
1671	"	5 29 56 "	—	0.001	—	—	"
1672	"	5 30 16 "	—	0.001	—	—	"
1673	"	5 31 40 "	—	0.001	—	—	"
1674	"	5 32 07 "	—	0.001	—	—	"
1675	"	5 33 01 "	—	0.001	—	—	"
1676	"	5 33 43 "	—	0.001	—	—	"
1677	"	5 33 58 "	—	0.001	—	—	"
1678	"	5 35 07 "	—	0.001	—	—	"
1679	"	5 37 01 "	—	0.001	—	—	"
1680	"	5 37 49 "	—	0.001	—	—	"
1681	"	5 38 57 "	—	0.001	—	—	"
1682	"	5 39 16 "	—	0.001	—	—	"
1683	"	5 39 45 "	—	0.001	—	—	"
1684	"	5 39 56 "	—	0.001	—	—	"
1685	"	5 40 03 "	—	0.001	—	—	"
1686	"	5 40 17 "	—	0.002	—	—	"
1687	"	5 40 35 "	—	0.001	—	—	"
1688	"	5 40 51 "	—	0.001	—	—	"
1689	"	5 41 05 "	—	0.001	—	—	"
1690	"	5 41 22 "	—	0.001	—	—	"
1691	"	5 41 44 "	—	0.001	—	—	"
1692	"	5 42 05 "	—	0.001	—	—	"
1693	"	5 42 32 "	—	0.001	—	—	"
1694	"	5 43 39 "	—	0.002	—	—	"
1695	"	5 44 13 "	—	0.001	—	—	"
1696	"	5 46 39 "	—	0.002	—	—	"
1697	"	5 47 14 "	—	0.001	—	—	"
1698	"	5 47 23 "	—	0.001	—	—	"
1699	"	5 52 45 "	—	0.001	—	—	"
1700	"	5 53 00 "	—	0.001	—	—	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1701	5	5 54 20 a.m.	—	0.002	—	—	B
1702	"	5 55 11 "	—	0.001	—	—	"
1703	"	5 57 20 "	—	0.001	—	—	"
1704	"	5 57 31 "	—	0.001	—	—	"
1705	"	5 58 54 "	—	0.002	—	—	"
1706	"	5 59 16 "	2.7	0.002	—	—	"
1707	"	6 00 32 "	—	0.001	—	—	"
1708	"	6 01 37 "	—	0.001	—	—	"
1709	"	6 02 26 "	—	0.001	—	20	"
1710	"	6 03 06 "	—	0.001	—	19	"
1711	"	6 03 26 "	—	0.002	—	20	"
1712	"	6 04 39 "	—	0.001	—	—	"
1713	"	6 04 47 "	—	0.001	—	—	"
1714	"	6 06 27 "	—	0.001	—	—	"
1715	"	6 12 30 "	—	0.001	—	—	"
1716	"	6 12 53 "	—	0.001	—	—	"
1717	"	6 14 05 "	—	0.001	—	13	"
1718	"	6 14 37 "	—	0.001	—	13	"
1719	"	6 16 35 "	2.7	0.002	—	6	"
1720	"	6 28 05 "	—	0.001	—	—	"
1721	"	7 07 18 "	—	0.001	—	—	"
1722	"	8 03 01 "	3.5	0.002	—	24	"
1723	"	8 37 51 "	3.7	0.002	—	21	"
1724	"	3 59 46 p.m.	3.2	0.002	—	26	"
1725	"	8 43 17 "	5.4	0.002	—	42	"
1726	"	10 59 42 "	0.6	0.002	—	10	A
1727	6	3 36 51 a.m.	3.3	0.002	—	20	B
1728	"	0 36 56 p.m.	2.3	0.002	—	21	"
1729	"	3 18 38 "	2.1	0.017	—	40	A
1730	7	0 59 50 a.m.	3.5	0.002	—	50	B
1731	"	3 51 12 "	3.0	0.002	—	—	"
1732	"	3 51 29 "	3.0	0.002	—	24	"
1733	"	9 16 59 "	3.3	0.002	—	20	"
1734	"	9 47 09 "	3.2	0.002	—	28	"
1735	"	9 55 34 "	3.5	0.002	—	—	"
1736	"	9 55 53 "	3.3	0.002	—	—	"
1737	"	0 56 15 "	3.7	0.002	—	29	"
1738	"	1 46 21 p.m.	4.0	0.003	—	18	"
1739	"	2 01 50 "	0.9	0.005	—	5	A
1740	"	8 02 43 "	3.0	0.003	—	34	B

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm	mm	sec.	
1741	7	8 54 03 p.m.	3.4	0.002	—	30	B
1742	"	11 03 39 "	3.0	0.002	—	39	"
1743	8	1 56 17 a.m.	—	0.003	—	45	"
1744	"	2 25 49 "	3.9	0.002	—	39	"
1745	"	3 01 05 "	3.3	0.002	—	26	"
1746	"	6 21 58 p.m.	4.2	0.005	—	40	"
1747	"	6 44 55 "	3.9	0.002	—	33	"
1748	"	10 03 33 "	2.8	0.002	—	33	"
1749	"	10 55 36 "	—	0.002	—	60	"
1750	9	0 53 28 a.m.	3.5	0.003	—	44	"
1751	"	2 03 30 "	3.4	0.002	—	44	"
1752	"	4 39 26 "	2.9	0.002	—	26	"
1753	"	5 05 48 "	3.6	0.001	—	73	"
1754	"	6 05 20 "	—	0.001	—	7	A
1755	"	10 38 01 "	3.5	0.002	—	38	B
1756	"	9 57 46 p.m.	2.6	0.002	—	48	"
1757	10	3 57 55 a.m.	2.8	0.003	—	46	"
1758	"	6 30 57 "	3.0	0.003	—	28	"
1759	"	8 53 46 p.m.	3.5	0.008	—	49	"
1760	11	11 54 42 "	3.5	0.003	—	29	"
1761	12	0 03 46 a.m.	3.0	0.002	—	20	"
1762	"	5 17 15 "	2.9	0.002	—	25	"
1763	"	6 23 22 "	3.1	0.002	—	22	"
1764	13	5 13 12 p.m.	3.0	0.001	—	26	"
1765	"	7 43 58 "	2.3	0.001	—	—	"
1766	"	7 44 10 "	2.3	0.001	—	38	"
1767	"	8 06 16 "	0.2	0.007	—	3	A
1768	"	10 00 21 "	0.6	0.044	—	13	"
1769	"	10 26 19 "	2.7	0.003	—	34	B
1770	16	9 57 01 "	—	Very slight	—	10	"
1771	22	0 44 42 "	2.5	"	—	40	"
1772	"	8 22 14 "	—	"	—	—	"
1773	23	4 48 27 a.m.	0.8	"	—	—	"
1774	25	0 08 31 "	1.8	"	—	40	"
1775	"	3 11 21 "	3.0	"	—	20	"
1776	"	4 44 28 "	2.0	"	—	20	"
1777	"	5 04 18 "	—	"	—	60	"
1778	"	5 18 30 "	2.0	"	—	35	"
1779	"	6 15 55 "	—	"	—	25	"
1780	"	9 14 03 "	—	"	—	18	"

No.	Date (1912).	Time of Occurrence.	Duration of Prelimi- nary Tremor.	Max. 2a.		Total Dura- tion.	Character.
				Longi- tudinal.	Trans- verse.		
	OCTOBER	h m s	sec.	mm (Very slight)	mm	sec.	
1781	25	9 14 25 a.m.	—	—	—	—	B
1782	"	9 15 16 "	—	—	—	—	"
1783	"	9 19 30 "	—	"	—	20	"
1784	"	1 42 09 p.m.	1.8	"	—	30	"
1785	"	4 30 39 "	2.0	"	—	20	"
1786	26	2 17 55 a.m.	1.8	"	—	—	"
1787	"	2 59 51 "	2.8	"	—	30	"
1788	27	2 06 01 "	—	"	—	33	"
1789	"	5 14 11 "	2.8	"	—	30	"
1790	"	10 39 56 p.m.	—	"	—	30	"
1791	"	11 10 04 "	—	"	—	30	"
1792	"	11 19 52 "	—	"	—	—	"
1793	28	10 37 18 a.m.	—	"	—	—	"
1794	"	5 21 34 p.m.	—	"	—	20	"
1795	29	5 00 03 a.m.	—	"	—	20	"
1796	"	5 59 38 "	—	"	—	20	"
1797	"	10 05 59 p.m.	2.4	"	—	18	"
1798	30	11 43 48 "	1.2	0.033	—	42	A, sensible