

ing distinction: *vibrations* denote waves of quicker period, while *undulations* denote those of slower period.

II. Results of the observations at Hitotsubashi.

§ 4. The results of the horizontal pendulum observations of the 385 earthquakes are contained in Tables I—XI; namely, Table I gives the list of the earthquakes, while Tables II, III, IV, V, VI, VII, VIII, IX, X, and XI give, respectively for the earthquakes of Groups I, II, III, IV, V, VI, VII, VIII A, VIII B, and IX, some or all of the following elements of motion:—

Date and time of occurrence;

Total duration;

Durations of the 1st and 2nd preliminary tremors and of the principal portion;

Average period of waves in the 1st and 2nd preliminary tremors and in the different portions of the principal portion.

Maximum range of motion, or double amplitude (2a) in the 1st and 2nd preliminary tremors and in the different portions of the principal portion.

Abbreviations. The abbreviations used in the tables are as follows:—

P. T. Preliminary tremor,

1st P. T. 1st preliminary tremor,

2nd P. T. 2nd " " "

P. P. Principal portion,

E. P. End portion,

2a Double amplitude, or range of motion.

For the sake of reference, I give in Table XII a list of the earthquakes observed in 1900 by the Gray-Milne seismograph at the Central Meteorological Observatory, Tōkyō.

The times are given in the *1st Normal Japan Time*, or that of *long. 135° E.*

TABLE I.

LIST OF 385 EARTHQUAKES OBSERVED IN 1900 AT
HITOTSUBASHI, TŌKYŌ, WITH OMORI'S
HORIZONTAL PENDULUM APPARATUS.

1900.

No.	Group.	Date.	Time of occurrence.*				Total duration.		
			h	m	s		h	m	s
1	I	Jan. 1	5.	32.	11	a.m.	0.	20.	00
2	I	" 6	4.	6.	24	"	2.	30.	00
3	I	" 11	5.	58.	23	p.m.	1.	00.	00
4	IX	" 13	1.	20.	26	a.m.	0.	11.	00
5	VIII, B	" 15	10.	32.	12	"	0.	09.	00
6	VIII, A	" "	0.	33.	07	p.m.	0.	05.	30
7	VII	" 17	0.	13.	36	a.m.	0.	14.	00
8	III	" "	5.	31.	45	"	0.	13.	00
9	I	" "	3.	35.	9	p.m.	0.	35.	00
10	I	" 18	2.	7.	39	"	0.	42.	00
11	V	" "	4.	26.	28	"	0.	02.	35
12	II	" "	4.	44.	44	"	1.	00.	00
13	I	" 20	3.	52.	39	"	2.	53.	00
14	VIII, A	" 21	6.	27.	14	"	0.	03.	56
15	I	" 24	4.	19.	44	"	2.	27.	00
16	VIII, B	" 27	0.	6.	4	a.m.	0.	01.	38
17	I	" 30	7.	56.	48	"	0.	35.	00
18	IV	" 31	2.	37.	51	"	0.	06.	00
19	I	" "	11.	23.	29	p.m.	0.	24.	00
20	II	Feb. 1	4.	21.	7	a.m.	1.	30.	00
21	VI	" 2	5.	4.	26	p.m.	0.	00.	55
22	I	" 3	1.	28.	44	"	0.	48.	00
23	VIII, A	" "	7.	9.	55	"	0.	04.	50
24	I	" 5	7.	20	19	"	1.	09.	00
25	VIII, A	" 9	6.	38.	48	a.m.	0.	03.	26
26	VIII, B	" "	3.	13.	59	p.m.	0.	01.	09
27	VIII, B	" 12	7.	37.	43	a.m.	0.	02.	45
28	II	" 13	1.	27.	40	p.m.	1.	26.	00
29	VIII, B	" "	2.	26.	16	"	0.	00.	53
30	I	" "	3.	38.	17	"	2.	17.	00

* The time is given in the 1st Normal Japan Time, or that of long, 135° E.

1900.

No.	Group.	Date.	Time of occurrence.				Total duration.		
			h	m	s		h	m	s
31	VIII, B	Feb. 13	6.	16.	31	p.m.	0.	00.	57
32	VIII, B	" "	7.	53.	36	"	0.	01.	22
33	VIII, B	" "	9.	46.	42	"	0.	01.	35
34	VIII, B	" 14	10.	44.	20	a.m.	0.	00.	54
35	I	" "	6.	31.	43	p.m.	1.	18.	00
36	VIII, B	" "	9.	34.	14	"	0.	00.	34
37	IV	" 16	10.	50.	27	a.m.	0.	06.	20
38	VIII, A	" "	4.	35.	00	p.m.	0.	02.	24
39	VIII, A	" 17	0.	52.	32	"	0.	03.	40
40	VIII, A	" 18	2.	46.	54	a.m.	0.	02.	38
41	VIII, A	" "	8.	03.	43	"	0.	03.	02
42	VIII, A	" 20	11.	50.	42	p.m.	0.	02.	55
43	II	" 24	9.	20.	07	"	0.	43.	00
44	I	" 26	7.	19.	30	a.m.	0.	34.	00
45	III	" "	11.	34.	16	"	0.	8.	20
46	VIII, A	March 1	7.	32.	14	"	0.	02.	28
47	VIII, A	" "	10.	08.	11	p.m.	0.	03.	10
48	VIII, B	" 3	1.	47.	58	"	0.	01.	18
49	VIII, B	" "	4.	27.	33	"	0.	02.	50
50	VIII, A	" 4	11.	58.	9	a.m.	0.	12.	00
51	VIII, B	" "	3.	18.	5	p.m.	0.	01.	30
52	I	" "	3.	43.	40	"	0.	14.	00
53	IV	" "	4.	45.	32	"	0.	06.	20
54	IV	" 7	7.	15.	53	"	0.	03.	06
55	VIII, B	" 9	10.	57.	52	a.m.	0.	03.	38
56	I	" "	11.	29.	17	"	2.	04.	00
57	VIII, A	" "	6.	01.	11	p.m.	0.	05.	50
58	VIII, B	" 12	9.	51.	58	a.m.	0.	04.	00
59	III	" "	10.	35.	01	"	1.	19.	20
60	IV	" "	1.	41.	15	p.m.	0.	10.	00

1900.

No.	Group.	Date.	Time of occurrence.				Total duration.		
			h	m	s		h	m	s
61	II	March 12	7.	55.	53	p.m.	0.	12.	00
62	III	" 13	1.	09.	38	a.m.	0.	10.	00
63	I	" 14	5.	24.	41	p.m.	2.	00.	00
64	IV	" "	11.	56.	04	"	0.	07.	35
65	VIII, A	" 15	6.	23.	40	"	0.	04.	13
66	VIII, A	" 16	10.	02.	22	"	0.	08.	30
67	III	" 17	1.	37.	45	"	0.	18.	40
68	VIII, B	" 18	6.	17.	32	"	0.	05.	20
69	VII	" 22	0.	56.	07	a.m.	0.	17.	50
70	VIII, A	" 26	5.	32.	34	p.m.	0.	17.	40
71	VIII, A	" "	8.	54.	33	"	0.	09.	40
72	VIII, B	" "	9.	40.	05	"	0.	02.	52
73	I	" 28	8.	03.	36	"	0.	12.	00
74	I	" 29	2.	06.	15	"	0.	46.	00
75	IX	" "	4.	38.	52	"	0.	04.	21
76	I	April 1	3.	51.	37	"	0.	47.	00
77	VIII, A	" 15	7.	51.	27	a.m.	0.	14.	20
78	III	" 16	7.	13.	35	p.m.	0.	08.	04
79	IV	" 18	2.	14.	30	"	0.	02.	24
80	VIII, A	" 20	9.	08.	05	"	0.	03.	14
81	VIII, B	" 22	11.	36.	45	a.m.	0.	02.	51
82	VIII, B	" "	0.	52.	49	p.m.	0.	01.	21
83	VIII, B	" "	2.	13.	39	"	0.	02.	30
84	VIII, B	" "	5.	43.	48	"	0.	00.	47
85	IX	" 25	8.	18.	52	a.m.	2.	22.	00
86	IX	" "	8.	23.	02	"			
87	VIII, A	" "	0.	19.	28	p.m.	0.	02.	36
88	VIII, B	" 27	8.	12.	46	a.m.	0.	02.	03
89	VIII, B	" "	9.	23.	22	"	0.	00.	22
90	VIII, B	" "	11.	18.	42	"	0.	01.	47

1900.

No.	Group.	Date.	Time of occurrence.			Total duration.			
			h	m	s	h	m	s	
91	VIII, B	April 27	0.	10.	16	p.m.	0.	03.	35
92	I	" "	4.	02.	59	"	0.	11.	00
93	VIII, B	" 28	2.	12.	08	"	0.	00.	32
94	VIII, B	" "	3.	16.	39	"	0.	00.	28
95	VIII, B	" "	6.	24.	12	"			
96	VIII, B	" "	7.	07.	26	"	0.	00.	48
97	I	May 1	4.	47.	41	a.m.	0.	27.	00
98	I	" 3	11.	36.	20	"	0.	21.	00
99	VIII, A	" 5	9.	16.	10	"	0.	03.	42
100	VIII, B	" "	11.	45.	16	p.m.	0.	06.	20
101	III	" 12	3.	23.	18	a.m.	2.	00.	00
102	VIII, B	" "	9.	47.	50	"	0.	01.	43
103	III	" "	11.	44.	36	"	0.	08.	20
104	VIII, B	" "	5.	37.	47	p.m.	0.	01.	04
105	III	" 14	4.	49.	44	a.m.	0.	04.	05
106	VIII, A	" 15	7.	12.	50	"	0.	13.	00
107	VIII, A	" "	9.	04.	0	p.m.	0.	04.	10
108	VIII, B	" 16	10.	43.	42	"			
109	I	" 18	1.	05.	37	"	1.	14.	00
110	I	" 19	11.	48.	57	"	0.	23.	00
111	VIII, A	" 21	8.	27.	26	a.m.	0.	05.	30
112	IV	" "	10.	47.	53	p.m.	0.	06.	35
113	IX	" 24	0.	11.	17	a.m.	0.	19.	20
114	I	" "	5.	16.	53	p.m.	0.	30.	00
115	VIII, B	" 27	1.	59.	50	a.m.	0.	05.	00
116	I	" "	10.	19.	35	"	0.	14.	00
117	I	" 30	1.	49.	57	p.m.	0.	10.	00
118	III	" 31	1.	20.	07	a.m.	0.	17.	40
119	VIII, A	" "	5.	39.	58	"	0.	10.	10
120	VII	" "	5.	45.	17	p.m.	0.	08.	25

1900.

No.	Group.	Date.		Time of occurrence.			Total duration.			
				h	m	s	h	m	s	
121	III	June	2	9.	07.	29	a.m.	0.	24.	50
122	I	"	3	6.	38.	53	"	2.	00.	00
123	VIII, B	"	7	1.	50.	43	"	0.	01.	30
124	II	"	8	5.	26.	58	p.m.	0.	10.	00
125	VIII, A	"	"	8.	30.	56	"	0.	04.	00
126	VI	"	9	9.	12.	45	"	0.	01.	17
127	I	"	10	4.	24.	44	"	0.	16.	00
128	VIII, A	"	"	7.	29.	19	"	0.	03.	20
129	I	"	10	7.	52.	02	p.m.	0.	48.	00
130	I	"	13	5.	58.	36	a.m.	2.	10.	00
131	VIII, A	"	"	1.	42.	51	p.m.	8.	00.	15
132	VIII, B	"	"	1.	56.	09	"			
133	VIII, B	"	"	3.	05.	20	"	0.	00.	27
134	VIII, B	"	"	4.	42.	59	"	0.	01.	00
135	VIII, A	"	20	4.	31.	30	"	0.	02.	30
136	I	"	22	6.	11.	09	a.m.	12.	00.	00
137	I	"	23	4.	38.	51	p.m.	1.	36.	00
138	IV	"	24	3.	59.	40	"	0.	05.	24
139	VIII, B	"	25	7.	55.	26	a.m.	0.	07.	05
140	VIII, B	"	"	9.	24.	03	"	0.	11.	20
141	VIII, B	"	"	9.	44.	33	"	0.	02.	41
142	VIII, B	"	"	10.	14.	49	"	0.	00.	24
143	VIII, B	"	"	10.	20.	33	"	0.	00.	55
144	VIII, B	"	"	11.	56.	09	"	0.	13.	05
145	VIII, B	"	"	3.	47.	04	p.m.	0.	09.	10
146	VIII, B	"	"	4.	09.	02	"	0.	01.	07
147	VIII, B	"	"	4.	53.	37	"	0.	01.	26
148	VIII, B	"	"	4.	54.	29	"	0.	05.	40
149	VIII, B	"	"	5.	25.	31	"	0.	02.	37
150	VIII, B	"	"	5.	46.	43	"	0.	00.	18

1900.

No.	Group.	Date.	Time of occurrence.				Total duration.		
			h	m	s		h	m	s
151	VIII, B	June 25	6.	09.	27	p.m.	0.	01.	30
152	IV	" "	9.	12.	08	a.m.	(Short)		
153	IV	" "	10.	31.	11	"	0.	03.	06
154	IV	" "	10.	28.	42	p.m.	(Short)		
155	IV	" 26	5.	09.	46	a.m.	Do.		
156	VIII, B	" "	5.	24.	03	"	Do.		
157	VIII, B	" "	6.	25.	53	"			
158	VIII, B	" "	10.	56.	27	"	0.	06.	00
159	I	" "	2.	44.	38	p.m.	1.	30.	00
160	IV	" "	6.	57.	53	"	0.	21.	20
161	IV	" "	9.	17.	46	"	0.	02.	10
162	VIII, B	" "	9.	21.	31	"	0.	00.	27
163	VIII, A	" "	9.	48.	35	"	0.	04.	45
164	VIII, A	" "	10.	15.	09	"	0.	02.	39
165	VIII, A	" "	10.	19.	43	"	0.	03.	12
166	VIII, A	" 27	0.	53.	39	a.m.	0.	01.	49
167	VIII, B	" "	0.	40.	33	p.m.	0.	02.	56
168	VIII, B	" "	0.	2.		"	0.	02.	27
169	I	" 28	6.	04.	15	a.m.	0.	12.	00
170	III	" 30	2.	51.	25	p.m.	0.	05.	40
171	I	July 2	10.	47.	36	a.m.	0.	24.	80
172	VIII, A	" "	5.	38.	27	p.m.	0.	12.	55
173	VIII, B	" 3	6.	16.	48	a.m.	0.	04.	56
174	VIII, B	" 5	3.	19.	33	p.m.	0.	03.	20
175	VIII, B	" "	4.	25.	21	"	0.	01.	47
176	VIII, B	" 8	—			a.m.	0.	01.	27
177	VIII, A	" "	11.	47.	38	"	0.	19.	10
178	VIII, B	" 10	9.	39.	41	"	0.	00.	50
179	VIII, B	" "	10.	57.	51	p.m.	0.	02.	54
180	VIII, A	" "	11.	45.	25	"	0.	09.	10

1900.

No.	Group.	Date.	Time of occurrence.				Total duration.		
			h	m	s		h	m	s
181	VIII, B	July 13	4.	02.	07	p.m.	0.	03.	14
182	VIII, B	" "	5.	39.	24	"	0.	03.	23
183	VIII, B	" "	6.	41.	02	"	0.	01.	37
184	VIII, A	" "	7.	19.	53	"	0.	03.	44
185	VIII, B	" "	7.	23.	23	"	0.	03.	05
186	VIII, B	" "	7.	38.	08	"	0.	01.	50
187	VIII, A	" "	10.	21.	26	"	0.	02.	21
188	VIII, A	" 14	7.	19.	05	a.m.	0.	02.	19
189	I	" "				"	0.	08.	00
190	VIII, A	" "	8.	11.	37	"	0.	04.	00
191	VIII, A	" "	8.	24.	17	"	0.	04.	33
192	VIII, B	" "	8.	40.	23	"	0.	02.	05
193	VIII, B	" "	1.	58.	05	p.m.	0.	01.	42
194	VIII, B	" "	2.	44.	50	"	0.	01.	09
195	VIII, B	" "	3.	04.	35	"	0.	02.	19
196	VIII, B	" "	3.	51.	10	"	0.	00.	55
197	VIII, B	" "	5.	24.	50	"	0.	01.	19
198	VIII, B	" "	5.	27.	06	"	0.	01.	44
199	VIII, B	" "	10.	23.	28	"	0.	01.	00
200	VIII, B	" 15	2.	13.	13	a.m.	0.	05.	30
201	I	" "	11.	09.	39	"	0.	12.	00
202	VIII, B	" 16	9.	27.	54	"	(Short.)		
203	VIII, B	" "	9.	41.	15	"	Do.		
204	VIII, A	" "	5.	32.	37	p.m.	0.	06.	47
205	VIII, B	" 17	0.	49.	59	"	0.	10.	00
206	VIII, B	" "	3.	30.	56	"	0.	02.	20
207	VIII, A	" 20	4.	34.	35	"	0.	04.	15
208	V	" 21	7.	29.	05	a.m.	0.	12.	10
209	I	" "	3.	52.	07	p.m.	2.	05.	00
210	VIII, B	" 24	1.	33.	10	"	0.	00.	58

1900.

No.	Group.	Date.	Time of occurrence.				Total duration.		
			h	m	s		h	m	s
211	VIII, B	July 24	9.	32.	24	p.m.	0.	00.	58
212	VIII, A	" "	9.	52.	27	"	0.	03.	49
213	I	" "	10.	01.	45	"	0.	25.	00
214	I	" 25	2.	07.	06	a.m.	0.	36.	00
215	VIII, B	" "	9.	0.	44	"	(Short.)		
216	VIII, B	" "	10.	0.	31	"	(Do.)		
217	VIII, B	" 26	7.	34.	26	"	0.	09.	20
218	I	" 29	4.	08.	42	p.m.	4.	00.	00
219	I	Aug. 1	8.	54.	41	a.m.	0.	19.	00
220	I	" "	3.	11.	35	p.m.	0.	56.	00
221	I	" "	5.	11.	12	"	1.	30.	00
222	I	" 2	1.	33.	21	"	0.	27.	00
223	VIII, A	" "	3.	42.	41	"	0.	01.	00
224	I	" "	3.	59.	25	"	0.	11.	00
225	I	" "	6.	34.	23	"	0.	24.	00
226	VIII, A	" "	7.	17.	29	"	(Short.)		
227	I	" 3	2.	31.	13	"	2.	45.	00
228	VIII, B	" 4	5.	55.	15	a.m.			
229	IV	" "	1.	33.	40	p.m.	1.	10.	00
230	III	" 5	1.	21.	17	"	3.	45.	00
231	VIII, A	" 8	7.	15.	04	"	0.	03.	04
232	VIII, A	" 13	1.	19.	07	a.m.	0.	05.	14
233	VIII, A	" "	1.	45.	01	"	0.	01.	30
234	VIII, B	" "	2.	16.	40	"	0.	01.	45
235	VIII, B	" "	2.	42.	19	"	0.	01.	30
236	I	" "	2.	36.	12	p.m.	0.	41.	00
237	I	" 14	5.	19.	39	a.m.	3.	00.	00
238	I	" "	8.	0.	28	"	0.	37.	00
239	VIII, A	" 17	6.	56.	24	"	0.	02.	34
240	IV	" "	5.	26.	58	p.m.	0.	05.	16

1900.

No.	Group.	Date.	Time of occurrence.				Total duration.		
			h	m	s		h	m	s
241	I	Aug. 21	3.	16.	12	a.m.			
242	VIII, B	" 25	11.	38.	52	p.m.	0.	02.	38
243	VIII, B	" 26	9.	07.	34	"			
244	VIII, A	" 27	2.	15.	49	a.m.	0.	02.	55
245	VIII, A	" "	2.	59.	52	p.m.	0.	08.	53
246	VIII, A	" "	4.	27.	35	"	0.	04.	25
247	VIII, A	" "	4.	32.	35	"	0.	03.	20
248	VIII, B	" 28	7.	03.	06	"	0.	01.	15
249	II	" 29	11.	31.	20	a.m.	2.	48.	00
250	I	" "	3.	14.	09	p.m.	2.	00.	00
251	VIII, B	Sept. 1	11.	16.	18	a.m.	0.	03.	30
252	III	" 5	6.	02.	29	p.m.	0.	04.	20
253	III	" 6	2.	20.	15	a.m.	0.	02.	40
254	VIII, B	" 10	4.	45.	33	p.m.	0.	03.	30
255	I	" "	9.	29.	23	"	0.	14.	00
256	VIII, A	" "	9.	39.	50	"	0.	02.	04
257	VI	" 15	1.	23.	27	"	0.	00.	24
258	I	" "	8.	51.	27	"			
259	I	" 18	7.	01.	41	a.m.	2.	30.	00
260	I	" "	9.	48.	41	"	0.	14.	00
261	VIII, B	" 19	4.			p.m.	0.	02.	23
262	I	" 20	4.	11.	0	a.m.	1.	20.	00
263	III	" 24	0.	35.	22	p.m.	0.	13.	50
264	VIII, B	" 26	5.	52.	27	"	0.	01.	31
265	VIII, B	" 29	2.	38.	14	"	0.	02.	04
266	I	" "	11.	16.	32	"	0.	20.	00
267	VIII, B	Oct. 2	2.	14.	29	a.m.	0.	01.	53
268	VII	" "	3.	37.	51	"	0.	18.	40
269	I	" "	9.	03.	04	p.m.	1.	00.	00
270	IV	" 3	3.	21.	09	a.m.	0.	09.	42

1900.

No.	Group.	Date.		Time of occurrence.			Total duration			
				h	m	s	h	m	s	
271	III	Oct.	3	3.	50.	56	a.m.	0.	07.	35
272	I	"	8	6.	06.	44	"	2.	00.	00
273	I	"	"	6.	02.	16	p.m.	3.	00.	00
274	I	"	"	10.	09.	35	"			
275	VIII, B	"	"	11.	42.	49	"	0.	02.	07
276	VIII, A	"	9	1.	40.	03	a.m.	0.	02.	08
277	I	"	"	9.	37.	14	p.m.	4.	00.	00
278	I	"	10	0.	35.	45	"	1.	00.	00
279	IV	"	"	2.	0.	56	"	0.	05.	33
280	VIII, A	"	11	4.	03.	44	a.m.	0.	04.	48
281	VIII, B	"	"	6.	26.	46	p.m.	0.	02.	06
282	VIII, B	"	12	4.	03.	47	a.m.	0.	05.	00
283	VIII, B	"	13	8.	01.	38	"	0.	17.	20
284	III	"	16	0.	27.	27	p.m.	0.	05.	35
285	VIII, B	"	"	8.	38.	29	"	0.	02.	01
286	I	"	17	8.	26.	40	"	0.	47.	00
287	VIII, B	"	19	11.	48.	31	a.m.	0.	02.	30
288	I	"	21	3.	35.	11	"	1.	04.	00
289	VIII, B	"	26	0.	28.	52	p.m.	0.	09.	34
290	VIII, B	"	27	2.	58.	45	a.m.	0.	06.	37
291	I	"	29	6.	29.	32	p.m.	3.	15.	00
292	V	Nov.	1	9.	50.	15	a.m.	0.	24.	00
293	II	"	2	3.	03.	59	p.m.	0.	15.	00
294	V	"	5	9.	16.	0	a.m.	0.	13.	00
295	V	"	"				a.m.			
296	V	"	"	2.	10.	41	p.m.	0.	34.	10
297	V	"	"	2.	47.	57	"	0.	05.	38
298	V	"	"	2.	53.	44	"	0.	01.	34
299	V	"	"	3.	07.	29	"	0.	03.	53
300	V	"	"	4.	14.	58	"	0.	01.	35

1900.

No.	Group.	Date.		Time of occurrence.				Total duration.		
				h	m	s		h	m	s
301	V	Nov.	5	4.	41.	42	p.m.	(More than 4h.)		
302	V	"	"	5.	05.	32	"	0.	10.	50
303	V	"	"	5.	19.	34	"	0.	30.	00
304	V	"	"	6.	39.	22	"	0.	01.	34
305	V	"	"	7.	11.	40	"	0.	03.	39
306	V	"	"	7.	15.	02	"	0.	02.	08
307	V	"	"	7.	17.	26	"	0.	04.	20
308	V	"	"	7.	26.	49	"	0.	01.	35
309	V	"	"	7.	38.	36	"	0.	15.	50
310	V	"	"	7.	55.	18	"	0.	02.	02
311	V	"	"	8.	12.	48	"	0.	01.	54
312	V	"	"	8.	24.	44	"	0.	02.	46
313	V	"	"	8.	52.	57	"	0.	03.	36
314	V	"	"	8.	58.	49	"	0.	00.	39
315	V	"	"	9.	17.	56	"	0.	13.	50
316	V	"	"	9.	35.	46	"	0.	10.	05
317	V	"	"	9.	45.	27	"	0.	20.	00
318	V	"	6	0.	42.	19	a.m.	0.	08.	35
319	V	"	"	3.	48.	41	"	0.	01.	36
320	V	"	"	1.	49.	59	p.m.	0.	05.	35
321	V	"	"	3.	50.	14	"	0.	04.	50
322	V	"	"	3.	58.	38	"	0.	00.	54
323	V	"	"	6.	13.	54	"	0.	53.	00
324	V	"	8	2.	57.	47	a.m.	0.	05.	19
325	V	"	"	6.	49.	02	p.m.	0.	05.	00
326	V	"	9	1.	41.	19	a.m.	0.	10.	51
327	V	"	"	1.	52.	19	"	0.	06.	04
328	V	"	"	2.	55.	03	"	(More than 2h.)		
329	V	"	"	5.	45.	20	"	0.	10.	30
330	V	"	"	11.	29.	59	"	0.	20.	20

1900.

No.	Group.	Date.		Time of occurrence.				Total duration.		
				h	m	s		h	m	s
331	VIII, A	Nov.	9	10.	32.	21	p.m.	0.	03.	05
332	III	"	"	11.	41.	36	"	0.	01.	33
333	I	"	10	2.	20.	59	a.m.	1.	30.	00
334	V	"	"	5.	27.	07	"	0.	12.	00
335	V	"	"	7.	12.	31	"	0.	11.	30
336	VIII, A	"	"	2.	15.	18	p.m.	0.	01.	59
337	V	"	"	8.	01.	35	"	0.	02.	42
338	VIII, A	"	11	1.	10.	10	a.m.	0.	03.	01
339	V	"	"	3.	46.	29	p.m.	0.	02.	44
340	V	"	"	3.	23.	0	a.m.	0.	02.	42
341	I	"	12	10.	14.	55	"	1.	23.	00
342	I	"	13	3.	44.	34	"	0.	20.	00
343	VIII, B	"	"	6.	12.	49	"	0.	01.	45
344	VIII, A	"	"	6.	15.	27	"	0.	02.	49
345	I	"	"	6.	18.	03	"	0.	15.	00
346	I	"	"	6.	32.	14	"	0.	21.	00
347	III	"	"	7.	36.	11	"	1.	14.	00
348	I	"	14	4.	43.	07	"	0.	15.	00
349	VIII, B	"	"	2.	0.	04	p.m.	0.	11.	40
350	VIII, B	"	"	3.	33.	43	"	0.	00.	57
351	VIII, A	"	"	7.	18.	31	"	0.	04.	12
352	VIII, A	"	15	3.	13.	25	a.m.	(Short)		
353	VIII, A	"	"	3.	16.	56	"	(Do.)		
354	VIII, B	"	"	3.	24.	33	"	0.	02.	40
355	III	"	"	6.	37.	30	"	0.	34.	10
356	VIII, A	"	"	8.	05.	33	"	0.	04.	23
357	VIII, B	"	"	7.	40.	18	p.m.	0.	04.	17
358	VIII, A	"	"	10.	53.	35	"	0.	05.	28
359	VIII, B	"	16	9.	18.	15	a.m.	0.	04.	23
360	V	"	"	9.	32.	53	"	0.	19.	40

1900.

No.	Group.	Date.		Time of occurrence.				Total duration.		
				h	m	s		h	m	s
361	VIII, B	Nov.	17	6.	59.	35	a.m.	0.	07.	00
362	VIII, A	"	19	4.	55.	33	p.m.	0.	03.	41
363	V	"	"	10.	58.	39	"	0.	19.	40
364	VIII, B	"	20	9.	24.	34	"	0.	05.	00
365	I	"	24	4.	49.	13	"	3.	40.	00
366	VII	"	27	9.	16.	01	"	0.	04.	13
367	VIII, A	"	28	2.	43.	12	a.m.	0.	01.	00
368	V	Dec.	1	0.	33.	14	p.m.	0.	16.	30
369	III	"	2	1.	33.	41	a.m.	0.	02.	47
370	VIII, A	"	"	5.	27.	37	"	0.	02.	28
371	I	"	"	7.	59.	56	"	0.	38.	00
372	I	"	3	11.	07.	02	p.m.	2.	00.	00
373	I	"	4	0.	16.	23	a.m.	0.	13.	00
374	VIII, B	"	"	1.	12.	20	"	0.	03.	56
375	III	"	6	2.	01.	21	p.m.	0.	10.	42
376	I	"	7	4.	13.	05	"	2.	00.	00
377	VIII, A	"	17	0.	59.	35	a.m.	0.	01.	23
378	VIII, A	"	"	9.	28.	02	"	0.	02.	09
379	I	"	"	5.	7.	57	p.m.	0.	30.	00
380	I	"	19	7.	31.	49	a.m.	1.	35.	00
381	VIII, B	"	"	8.	53.	10	"	0.	05.	51
382	VIII, A	"	"	9.	26.	50	p.m.	0.	03.	50
383	I	"	25	2.	07.	44	"	3.	30.	00
384	VIII, A	"	29	3.	32.	51	"	0.	04.	20
385	VIII, B	"	30	0.	26.	26	a.m.	0.	01.	24

TABLE II. DISTANT

No.	Date. 1900.	Time of occurrence. (1st. N. J. T.)	Duration of				
			Total eqke.	1st. P. T.	2nd. P. T.	Total P. T.	P. P.
		h m s	h m	m s	m s	m s	m s
1	Jan. 1	5. 32. 11 a.m.	0. 20	—	—	—	—
2	" 6	4. 6. 24 a.m.	2. 30	7. 27	5. 28	12. 52	24. 00
3	" 11	5. 58. 23 p.m.	1. 00	—	—	7. 38	21. 00
9	" 17	3. 35. 9 p.m.	0. 35	—	—	13. 00	8.30
10	" 18	2. 7. 39 p.m.	0. 42	7. 25	7. 40	15. 05	—
13	" 20	3. 52. 39 p.m.	2. 53	10. 40	11. 00	21. 40	30. 00
15	" 24	4. 19. 44 p.m.	2. 27	—	—	12. 52	14. 12
17	" 30	7. 56. 43 a.m.	0. 35	—	—	7. 30	10. 54
19	" 31	11. 23. 29 p.m.	0. 24	—	—	1. 21	—
22	Feb. 3	1. 28. 44 p.m.	0. 48	—	—	9. 28	10. 40
24	" 5	7. 20. 19 p.m.	1. 09	—	—	3. 52	18. 10
30	" 13	3. 38. 17 p.m.	2. 17	—	—	5. 16	19. 10
35	" 14	6. 31. 43 p.m.	1. 18	—	—	—	—
44	" 26	7. 19. 30 a.m.	0. 34	—	—	1. 32	9. 00
52	March 4	3. 43. 43 p.m.	0. 14	—	—	—	—
56	" 9	11. 29. 17 a.m.	2. 04	8. 00	7. 16	15. 16	15. 40
63	" 14	5. 24. 41 p.m.	2. 00	—	—	—	—
73	" 28	8. 3. 36 p.m.	0. 12	—	—	—	—
74	" 29	2. 6. 15 p.m.	0. 45	—	—	—	20. 40
76	April 1	3. 51. 37 p.m.	0. 47	—	—	—	—
92	" 27	4. 2. 59 p.m.	0. 11	—	—	—	5. 00
97	May 1	4. 47. 41 a.m.	0. 27	—	—	8. 44	—
98	" 3	11. 36. 20 a.m.	0. 21	—	—	—	—
109	" 18	1. 5. 37 p.m.	1. 14	—	—	5. 04	16. 05
110	" 19	11. 48. 57 p.m.	0. 23	—	—	8. 00	6. 26
114	" 24	5. 16. 53 p.m.	0. 30	—	—	7. 30	—
116	" 27	10. 19. 35 a.m.	0. 14	—	—	—	2. 15
117	" 30	1. 49. 57 p.m.	0. 10	—	—	—	—

EARTHQUAKES. (Group I.)

Average period in								Maximum range of motion in				
1st. P. T.		2nd P. T.		P. P.			E. P.	1st. P. T.	2nd P. T.	P. P.		
Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.	3rd phase.				1st phase.	2nd phase.	3rd phase.
s	s	s	s	s	s	s	s	mm	mm	mm	mm	mm
—	—	—	—	—	27,5	14,2	—	—	—	—	—	—
7,2	—	13,0	7,1	34,8	—	13,4	10,9	0,04	0,11	0,4	0,2	0,44
15,9	—	—	—	40,0	—	14,0(?)	—	0,26	—	1,5	—	1,2
12,0(?)	—	—	—	—	14,2	10,7	—	—	—	—	0,04	0,05
—	—	11,8	—	—	19,0	13,2	—	Small	0,05	—	0,05	Small
—	—	—	—	—	—	—	—	—	—	—	—	—
14,1	5,3	15,3	7,3	32,7	21,0	15,5	15,7	0,06	0,08	0,13	0,13	0,25
10,2	4,9	—	—	—	17,2	13,4	9,7	0,05	—	—	0,19	—
21,0	—	—	—	—	—	16,7	—	Small	—	—	—	0,10
15,8	0,94	—	—	—	17,2	{ 13,6	—	”	—	—	0,04	—
16,6	—	—	—	—	24,2	{ 5,4	14,2	”	—	—	Small	0,08
—	—	—	—	—	—	17,8	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
14,5	—	—	—	—	26,1	16,8	—	0,06	—	—	—	0,09
10,3	4,1	—	—	—	25,8	10,0	10,0	Small	—	—	0,13	2,10
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	13,1	9,3	9,1	Small	—	—	0,20	2,40
—	—	—	—	—	29,0	—	—	”	—	—	Small	—
—	—	—	—	—	—	—	—	—	—	—	—	—
7,6	4,1	13,4	7,4	—	23,2	12,3	12,3	0,04	1,30	—	0,09	2,10
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	14,7	—	—	—	—	0,06	—
—	—	—	—	21,8	13,9	9,3	—	—	—	—	0,10	0,10
—	—	—	—	—	—	8,7	—	—	—	—	0,04	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	9,5	—	—	—	—	—	0,05
4,8	—	—	—	—	—	7,2	—	0,03	—	—	—	0,05
—	—	—	—	—	—	11,1	—	—	—	—	—	0,08
—	—	—	—	27,2	17,2	12,2	—	—	—	—	—	0,05
3,9	0,88	—	—	—	—	6,2	4,8	0,01	—	—	—	0,13
—	—	—	—	—	—	—	—	—	—	—	—	—
7,8	4,0	—	—	—	—	10,6	—	—	—	—	—	Small
—	—	—	—	—	—	9,7	—	—	—	—	—	0,04
—	—	—	—	—	—	12,4	—	—	—	—	—	0,05

TABLE II.

No.	Date. 1900.	Time of occurrence. (1st N. J. T.)	Duration of				
			Total. eqke.	1st. P. T.	2nd P. T.	Total P. T.	P. P.
		h m s	h m	m s	m s	m s	m s
122	June 3	6. 33. 53 a.m.	2. 00	—	—	16. 50	42. 20
127	" 10	4. 24. 44 p.m.	0. 16	—	—	—	—
129	" "	7. 52. 02 p.m.	0. 48	—	—	15. 02	—
130	" 13	5. 58. 36 a.m.	2. 10	—	—	—	24. 30
136	" 22	6. 11. 09 a.m.	12. 00	14. 50	18. 40	33. 30	29. 30
137	" 23	4. 38. 51 p.m.	1. 36	—	—	9. 30	14. 00
159	" 26	2. 44. 38 p.m.	1. 30	—	—	6. 16	9. 45
169	" 28	6. 04. 15 a.m.	0. 12	—	—	—	—
171	July 2	10. 47. 33 a.m.	0. 24	—	—	6. 13	—
189	" 14	—	0. 08	—	—	0. 55	2. 49
201	" 15	11. 09. 39 a.m.	0. 12	—	—	—	—
209	" 21	3. 52. 07 p.m.	2. 05	7. 40	7. 03	14. 43	23. 50
213	" 24	10. 01. 45 p.m.	0. 25	0. 41	0. 41	1. 22	6. 35
214	" 25	2. 07. 06 a.m.	0. 36	0. 18	0. 19	0. 37	8. 50
218	" 29	4. 08. 42 p.m.	4. 00	7. 39	4. 43	12. 22	29. 20
219	Aug. 1	8. 54. 41 a.m.	0. 19	—	—	2. 14	6. 20
220	" "	3. 11. 35 p.m.	0. 56	—	—	10. 13	9. 30
221	" "	5. 11. 12 p.m.	1. 30	—	—	15. 10	—
222	" 2	1. 33. 21 p.m.	0. 27	—	—	3. 57	6. 40
224	" "	3. 59. 25 p.m.	0. 11	—	—	—	—
225	" "	6. 34. 23 p.m.	0. 24	—	—	—	10. 00
227	" 3	2. 31. 13 p.m.	2. 45	—	—	13. 00	20. 40
236	" 13	2. 36. 12 p.m.	0. 41	—	—	—	6. 00
237	" 14	5. 19. 39 a.m.	3. 00	—	—	4. 50	12. 04
238	" "	8. 00. 23 a.m.	0. 37	—	—	—	—

(Continued.)

Average period in								Maximum range of motion in				
1st. P. T.		2nd P. T.		P. P.			E. P.	1st P. T.	2nd P. T.	P. P.		
Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.	3rd phase.				1st phase.	2nd phase.	3rd phase.
s	s	s	s	s	s	s	s	mm	mm	mm	mm	mm
—	—	14,4	—	—	—	13,4	10,7	—	Small	—	—	0,01
—	—	—	—	—	—	—	—	—	—	—	—	—
—	5,4	—	—	28,3	—	12,7	—	Small	—	—	—	—
—	—	—	—	—	{ 23,7 9,6	11,6	10,9	—	—	—	0,14	0,06
—	5,8	20,0	{ 16,0 8,9	28,0	21,9	19,3	14,7	Small	0,10	0,06	0,08	0,38
—	5,9	—	—	—	18,5	18,5	10,6	—	—	—	Small	0,06
{ 1,7 5,2	9,2	—	—	—	14,4	11,4	11,0	0,06	—	—	0,13	0,09
—	—	—	—	—	—	10,4	—	—	—	—	—	0,07
10,0	—	—	—	—	—	8,4	—	—	—	—	—	0,02
—	—	—	—	—	—	10,0	9,6	—	—	—	—	0,07
—	—	—	—	—	—	17,0	—	—	—	—	—	0,06
8,1	—	—	9,4	—	25,6	17,4	17,0	0,03	0,06	—	—	0,06
—	—	4,6	1,1	—	{ 8,2 1,1	{ 4,8 8,4	8,4	—	0,03	—	0,10	—
7,2	0,06	9,4	0,96	—	{ 6,3 0,94	8,8	7,4	0,06	0,15	—	0,63	1,4
{ 10,4 20,5	{ 4,8 1,3	26,8	10,0	{ 43,8 29,2	22,9	14,3	{ 9,8 14,5	0,3	1,13	3,3	4,25	—
—	—	—	—	—	13,3	7,9	—	—	—	—	Small	0,05
—	—	—	—	—	16,5	13,4	11,1	—	—	—	—	0,06
8,8	4,5	—	—	—	18,6	10,4	—	0,6	—	—	0,04	0,08
—	1,1	—	—	—	—	9,4	—	—	—	—	—	0,03
—	—	—	—	—	—	12,0	—	—	—	—	—	Small
—	—	—	—	—	—	8,4	—	—	—	—	—	0,06
—	4,7	8,3	—	—	14,0	10,8	9,9	—	—	—	0,06	0,04
—	—	—	—	—	—	9,4	—	—	—	—	—	0,03
8,3	3,8	—	—	26,6	15,8	8,8	9,4	0,06	—	0,14	0,23	0,49
—	—	—	—	—	14,9	—	—	—	—	—	—	—

TABLE II.

No.	Date. 1900.	Time of occurrence. (1st. N. J. T.)	Duration. of				
			Total. eqke.	1st. P. T.	2nd. P. T.	Total. P. T.	P. P.
		h m s	h m	m s	m s	m s	m s
241	Aug. 21	3. 16. 12 a.m.	—	—	—	—	—
250	" 29	3. 14. 09 p.m.	2. 0	—	—	3. 29	10. 10
255	Sept. 10	9. 29. 23 p.m.	0. 14	—	—	1. 21	3. 23
258	" 15	8. 51. 27 p.m.	—	—	—	—	—
259	" 18	7. 01. 41 a.m.	2. 30	—	—	9. 04	33. 00
230	" "	9. 48. 41 a.m.	0. 14	—	—	—	—
232	" 20	4. 11. 00 a.m.	1. 20	—	—	8. 40	8. 00
236	" 29	11. 16. 32 p.m.	0. 20	—	—	4. 00	—
269	Oct. 2	9. 03. 04 p.m.	1. 00	—	—	11. 06	8. 54
272	" 8	6. 06. 44 a.m.	{ Greater than 2. 00	5. 55	5. 00	10. 55	8. 55
273	" "	6. 02. 16 p.m.	3. 00	8. 18	6. 45	15. 03	52. 00
274	" "	10. 09. 35 p.m.	—	—	—	—	—
277	" 9	9. 37. 14 p.m.	4. 00	7. 22	5. 05	12. 27	30. 20
278	" 10	0. 35. 45 p.m.	1. 00	—	—	20. 40	15. 00
286	" 17	8. 23. 40 p.m.	0. 47	—	—	6. 17	23. 20
288	" 21	3. 35. 11 a.m.	1. 04	9. 56	11. 00	20. 56	11. 10
291	" 29	6. 31. 52 p.m.	3. 15	16. 55	15. 33	32. 31	21. 54
333	Nov. 10	2. 20. 59 a.m.	1. 30	—	—	—	11. 00
341	" 12	10. 14. 55 a.m.	1. 23	—	—	10. 10	16. 33
342	" 13	3. 44. 34 a.m.	0. 20	—	—	1. 03(?)	—
345	" "	6. 18. 03 a.m.	0. 15	—	—	—	5. 10
346	" "	6. 32. 14 a.m.	0. 21	—	—	—	4. 30
348	" 14	4. 43. 07 a.m.	0. 15	—	—	—	—
365	" 24	4. 49. 13 p.m.	3. 40	—	—	3. 09	8. 38
371	Dec. 2	7. 59. 56 a.m.	0. 38	—	—	1. 18	9. 00

(Continued.)

Average period in								Maximum range of motion in				
1st. P. T.		2nd P. T.		P. P.			E. P.	1st P. T.	2nd P. T.	P. P.		
Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.	3rd phase.				1st phase.	2nd phase.	3rd phase.
s	s	s	s	s	s	s	s	mm	mm	mm	mm	mm
4,2	1,0	—	—	—	17,8	10,0	10,0	—	—	—	0,13	0,08
—	0,93	—	—	—	—	14,3	7,0	—	—	—	—	0,15
—	—	—	—	—	—	2,3	—	—	—	—	—	—
—	—	—	—	—	—	0,92	—	—	—	—	—	—
—	—	—	—	—	—	20,5(?)	—	—	—	—	—	—
15,2	{ 8,0 3,8	—	—	35,1	23,7	22,4	9,7	0,28	—	0,5	1,0	2,2
—	—	—	—	—	—	19,2	—	—	—	—	—	0,4
—	5,1	9,3	5,5	21,0	{ 17,9 9,0	18,0	9,3	—	0,15	0,28	0,1	0,11
—	5,4	—	—	—	—	7,0	9,1	0,3	—	—	—	0,44
—	4,7	—	—	—	24,6	{ 7,9 20,0	—	—	—	—	0,5	—
9,6	{ 4,9 2,7	25,	9,9	24(?)	17,1	15,9	16,1	0,12	0,4	—	2,85	1,6
5,1	{ 3,5 1,1	21,2	8,6	—	25,2	18,6	17,1	0,05	0,15	—	0,13	0,19
—	—	—	—	—	25,5	—	—	—	—	—	—	—
14,2	{ 4,8 1,5	{ 19,6 24,8	7,8	{ 7,5 44,7	35,7	21,4	{ 22,0 9,2	0,56	1,8	1,5	4,3	1,5
10,2	—	—	—	—	—	16,6	11,2	—	—	—	—	0,06
9,0	—	—	—	—	22,3	18,4	—	0,06	—	—	0,06	0,06
—	—	14,6	8,1	—	22,5	{ 8,6 16,8	{ 9,3 17,2	—	0,11	—	0,07	0,03
14,0	7,4	32,6	{ 7,8 15,6	{ 2,9 10,0 56,0	{ 10,3 45,4	25,8	17,5	0,11	0,38	0,25	0,43	0,44
—	0,88	—	—	—	—	8,3	—	0,05	—	—	—	0,24
9,6	—	—	—	41,5	23,	17,0	{ 10,8 17,4	0,23	—	0,45	0,33	1,11
—	—	—	—	23,1	—	{ 15,0 1,1	11,8	—	—	0,04	—	—
—	—	—	—	—	{ 0,84 4,6 12,6	5,9	6,9	—	—	—	0,65	0,43
—	—	—	—	{ 3,1 24,6	12,1	8,0	9,1	—	—	0,35	0,46	0,52
—	—	—	—	—	—	—	—	—	—	—	—	—
{ 8,1 38,0	{ 0,84 3,7	—	—	{ 3,8 7,6 34,6	—	{ 6,2 13,5	{ 9,4 17,8	0,36	—	1,5	—	1,7
7,7	0,98	—	—	—	14,2	9,1	7,8	0,11	—	—	0,4	—

TABLE II.

No.	Date. 1900.	Time of occurrence. (1st. N. J. T.)	Duration of				
			Total eqke.	1st P. T.	2nd P. T.	Total P. T.	P. P.
		h m s	h m	m s	m s	m s	m s
372	Dec. 3	11. 07. 02 p.m.	2. 00	—	—	0. 40	13. 04
373	" 4	0. 16. 23 a.m.	0. 13	—	—	2. 15	—
376	" 7	4. 13. 05 p.m.	2. 00	—	—	2. 13	12. 13
379	" 17	5. 07. 57 p.m.	0. 30	—	—	9. 30	9. 23
380	" 19	7. 31. 49 a.m.	1. 35	—	—	8. 38	9. 41
383	" 25	2. 7. 44 p.m.	3. 30	—	—	2. 30.	0. 26

TABLE III. EARTHQUAKES WHICH
COAST OF HOKKAIDO.

No.	Date. 1900.	Time of occurrence. (1st. N. J. T.)	Duration of					Average			
			Total eqke.	1st P. T.	2nd P. T.	Total P. T.	P. P.	1st P. T.		2nd P. T.	
								Slow waves.	Quick waves.	Quick waves.	Quick waves.
		h m s	h m	m s	m s	m s	s	s	s	s	
12	Jan. 18	4. 44. 44 p.m.	1. 00	—	—	2. 00	6. 00	4,0	—	—	—
20	Feb. 1	4. 21. 07 a.m.	1. 30	1. 00	1. 18	2. 18	8. 35	7,2	0,92	{ 7,2 19,2	{ 1,1 2,6
23	" 13	1. 27. 40 p.m.	1. 26	1. 03	0. 49	1. 52	6. 30	12,7	1,23	9,8	0,96
43	" 24	9. 20. 07 p.m.	0. 43	0. 51	0. 51	1. 42	7. 07	—	1,15	3,2	1,17
61	March 12	7. 55. 53 p.m.	0. 12	—	—	1. 20	1. 56	—	1,22	—	—
124	June 8	5. 26. 58 p.m.	0. 10	—	—	1. 10	—	—	1,18	—	—
249	Aug. 2	11. 31. 20 a.m.	2. 48	—	—	1. 35	1. 25	11,5	{ 0,95 3,6	—	—
293	Nov. 2	3. 3. 59 p.m.	0. 15	—	—	1. 18	—	—	1,05	—	—

(Continued.)

Average period in								Maximum range of motion in				
1st P. T.		2nd P. T.		P. P.			E. P.	1st P. T.	2nd P. T.	P. P.		
Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st. phase.	2nd phase.	3rd phase.				1st phase.	2nd phase.	3rd phase.
s	s	s	s	s	s	s	s	mm	mm	mm	mm	mm
9,9	—	—	—	—	{ 8,2 21,7	13,5	8,2	—	—	—	0,31	1,08
—	—	—	—	—	—	8,5	—	—	—	—	—	0,05
—	1,0	—	—	26,2	19,1	—	10,4	—	—	0,1	0,25	—
9,5	—	—	—	—	21,8	13,8	10,6	—	—	—	—	0,06
5,1	—	10,0	6,9	—	19,5	16,6	—	0,03	0,05	—	—	0,06
27,4	{ 1,1 3,7	—	—	—	{ 3,6 32,8	{ 9,0 14,1	10,2	2,7	—	—	10,9	6,0

ORIGINATED OFF THE SOUTH-EASTERN
(Group II.)

period in				Maximum range of motion in									
P. P.			E. P.	1st P. T.		2nd P. T.		P. P.					
1st phase.	2nd phase.	3rd phase.		(Slow vibr.) mm	(Quick vibr.) mm	(Slow vibr.) mm	(Quick vibr.) mm	(Slow vibr.) mm	(Quick vibr.) mm	(Slow vibr.) mm	(Quick vibr.) mm	(Slow vibr.) mm	(Quick vibr.) mm
{ 2,4 28,0	s	{ 5,0 12,7	s	—	—	—	—	0,19	—	—	—	0,18	—
—	17,8	{ 1,4 2,3 6,9	8,0	0,05	0,03	0,05	0,03	—	—	—	—	1,7	0,38
19,5	{ 2,5 12,7	8,2	8,6	—	0,05	0,34	0,19	0,50	—	—	—	0,3	—
16,8	12,0	{ 1,16 3,7 7,9	{ 4,6 9,8	—	—	—	0,14	0,31	—	—	—	0,28	—
—	—	1,02	{ 2,2 8,3	—	—	—	—	—	—	—	—	—	0,11
—	—	1,00	—	—	—	—	—	—	—	—	—	0,06	—
{ 0,95 4,9 31,8 1,00	—	{ 3,3 7,3 5,7 12,3	10,0	0,81	0,31	—	—	2,6	1,1	—	—	{ 4,6 4,0	—
—	—	6,5	—	—	—	—	—	—	—	—	—	0,04	—

**TABLE IV. EARTHQUAKES WHICH
COAST OF HONSHŪ.**

No.	Date. 1900.	Time of occurrence. (1st N. J. T.)	Duration of				
			Total eqke.	1st P. T.	2nd P. T.	Total P. T.	P. P.
8	Jan. 17	h m s 5. 31. 45 a.m.	m s 13. 00	m s —	m s —	m s 0. 50	m s 5. 00
45	Feb. 26	11. 34. 16 a.m.	8. 20	—	—	0. 13	1. 14
59	March 12	10. 35. 01 a.m.	79. 20	0. 23	0. 23	0. 46	16. 00
62	„ 13	1. 09. 38 a.m.	10. 10	—	—	0. 11(?)	4. 05
67	„ 17	1. 37. 45 p.m.	18. 40	0. 35	0. 35	1. 10	2. 42
78	April 16	7. 13. 35 p.m.	8. 04	—	—	0. 52	—
101	May 12	3. 23. 18 a.m.	120. 00	—	—	0. 40	15. 00
103	„ „	11. 44. 36 a.m.	8. 20	—	—	0. 34(?)	1. 55
105	„ 14	4. 49. 44 a.m.	4. 05	—	—	0. 42	0. 49
118	„ 31	1. 20. 7 a.m.	17. 40	0. 34	0. 26	1. 00	5. 20
121	June 2	9. 07. 29 a.m.	24. 50	0. 45	0. 38	1. 23	5. 40
170	„ 30	2. 51. 25 p.m.	5. 40	—	—	0. 40	0. 55
230	Aug. 5	1. 21. 17 p.m.	225. 00	—	—	0. 39	17. 00
252	Sept. 5	6. 02. 29 p.m.	4. 20	—	—	0. 23	1. 13
253	„ 6	2. 20. 15 a.m.	2. 40	—	—	0. 17	1. 08
243	„ 24	0. 35. 22 p.m.	13. 50	0. 19(?)	0. 33	0. 55(?)	5. 30
271	Oct. 3	3. 50. 56 a.m.	7. 35	0. 37	0. 35	1. 12	1. 02
284	„ 16	0. 27. 27 p.m.	5. 35	—	—	0. 30	1. 27
332	Nov. 9	11. 41. 36 p.m.	1. 33	—	—	—	—
347	„ 13	7. 36. 11 a.m.	74. 00	—	—	0. 54	12. 07
355	„ 15	6. 37. 30 a.m.	34. 10	—	—	0. 46	6. 21
369	Dec. 2	1. 33. 41 a.m.	2. 47	—	—	0. 10	—
375	„ 6	2. 01. 21 p.m.	10. 42	—	—	0. 34	3. 32

ORIGINATED OFF THE NORTH-EASTERN
(Group III.)

Average period in							Max. range of motion in					
1st P. T.		2nd P. T.		P. P.		E. P.	1st P. T.		2nd P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.		Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.
s	s	s	s	s	s	s	mm	mm	mm	mm	mm	mm
—	—	—	—	7,2	—	—	—	—	—	—	—	—
—	1,0	—	—	21,2	0,87	{ 0,99 2,6 4,3	—	—	—	—	—	0,45
{ 8,3 1,8(?)	0,83	8,3	0,93	7,0	0,91	9,7	—	0,08	—	0,31	3,1	1,8
2,4	—	—	—	4,1 (also 2,7 and 15,4)	0,89	—	—	—	—	—	0,06	0,04
—	1,16	—	1,03	{ 6,7 4,4	1,03	6,1	—	—	—	—	0,09	0,04
—	0,94	—	—	{ 3,5 7,6	1,03	—	—	—	—	—	0,05	—
—	—	12,8	—	{ 20,0 4,2	1,9	8,4	—	0,19	2,4	—	{ 10,9 9,1	7,0
—	1,12	—	—	2,9	0,93	4,2	—	—	—	—	0,03	—
—	0,81	—	—	—	0,78	0,88	—	—	—	—	—	0,04
—	—	—	0,61	{ 3,2 8,0	0,84	—	—	—	—	—	0,04	0,04
—	—	—	1,14	5,9	1,0	{ 9,9 4,1	—	—	—	—	0,11	—
—	1,08	—	—	—	0,89	3,07	—	—	—	—	—	0,03
3,0	0,67	24,0	1,6	{ 6,2 15,2	{ 3,8 2,1	8,8	—	—	2,1	0,9	{ 5,4 5,9	{ 3,9 2,9
—	—	—	0,94	—	0,94	0,99	—	—	—	—	—	—
—	—	—	—	—	0,96	—	—	—	—	—	—	—
—	0,78	3,8	0,87	{ 6,7 3,6	0,91	5,0	—	—	0,04	0,03	{ 0,11 0,21	0,30
—	0,87	—	0,94	—	0,94	—	—	—	—	—	—	—
—	—	—	—	—	0,86	0,92	—	—	—	—	—	0,08
—	—	—	—	—	—	—	—	—	—	—	—	—
—	0,92	—	—	{ 21,0 16,1	—	10,9	—	—	—	—	{ 0,08 0,15	—
—	—	10,3	—	{ 9,3 25,7(?)	0,94	7,2	—	—	0,13	—	{ 1,1 10,4	—
—	—	—	—	10,4	—	—	—	—	—	—	—	—
—	0,95	—	—	4,1	0,97	—	—	—	—	—	0,06	0,09

**TABLE V. EARTHQUAKES WHICH
OF THE KAZUSA-AWA**

No.	Date. 1900.	Time of occurrence. (1st N. J. T.)	Duration of				
			Total eqke.	1st P. T.	2nd P. T.	Total P. T.	P. P.
		h m s	m s	m s	m s	m s	m s
18	Jan. 31	2. 37. 51 a.m.	6. 00	0. 15	0. 18	0. 33	1. 50
37	Feb. 16	10. 50. 27 a.m.	6. 20	0. 11	0. 11	0. 22	1. 26
53	March 4	4. 45. 32 p.m.	6. 20	—	—	0. 19	0. 26
54	" 7	7. 15. 53 p.m.	3. 06	—	—	0. 20	0. 57
60	" 12	1. 41. 15 p.m.	10. 00	—	—	0. 17(?)	1. 31
64	" 14	11. 56. 04 p.m.	7. 35	—	—	0. 15	1. 46
79	April 18	2. 14. 30 p.m.	2. 24	—	—	0. 17	—
112	May 21	10. 47. 53 p.m.	6. 35	—	—	0. 22(?)	1. 20
138	June 24	3. 59. 40 p.m.	5. 24	—	—	0. 18	1. 07
152	" 25	9. 12. 08 a.m.	Short	—	—	—	—
153	" "	10. 31. 11 a.m.	3. 06	—	—	0. 08	0. 55
154	" "	10. 28. 42 p.m.	Short	—	—	—	—
155	" 26	5. 09. 45 a.m.	"	—	—	—	—
160	" "	6. 57. 53 p.m.	21. 20	0. 06	0. 03	0. 12	2. 22
161	" "	9. 17. 46 p.m.	2. 10	—	—	—	—
229	Aug. 4	1. 33. 40 p.m.	70. 00	—	—	1. 51	7. 48
240	" 17	5. 26. 58 p.m.	5. 16	0. 17	0. 13	0. 30	1. 10
270	Oct. 3	3. 21. 09 a.m.	9. 42	—	—	0. 29	1. 41
279	" 10	2. 00. 56 p.m.	5. 33	—	—	0. 16(?)	1. 59

ORIGINATED OFF THE EASTERN COAST
PENINSULA. (Group IV.)

Average period in							Maximum range of motion in					
1st P. T.		2nd P. T.		P. P.		E. P.	1st P. T.		2nd P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.		Slow waves.	Quick waves.	Slow waves.	Quick waves.	1st phase.	2nd phase.
s	s	s	s	s	s	s	mm	mm	mm	mm	mm	mm
—	0,93	3,0	0,90	—	0,85	{0,95 3,6	—	0,01	—	0,01	—	0,31
—	1,01	—	0,96	{3,3 20,7	0,86	{1,08 3,6	—	—	—	0,04	—	0,44
—	1,12	—	—	—	0,85	{0,86 3,8	—	—	—	—	—	0,35
—	1,05	—	—	—	0,88	—	—	—	—	—	—	0,04
—	—	3,0	1,3	3,1	1,22	{2,1 4,2	—	—	—	—	—	0,33
—	0,80	—	—	{2,9 11,6	—	—	—	—	—	—	—	0,15
—	—	—	—	—	0,85	—	—	—	—	—	—	—
—	0,91	—	—	—	1,04	1,23	—	—	—	—	—	0,03
—	—	—	—	—	0,95	1,02	—	—	—	—	—	0,06
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	0,64	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	0,84	2,0	0,84	{2,5 5,2	0,98	{3,2 6,7 4,6	—	—	—	0,1	0,56	0,66
—	—	—	—	—	—	—	—	—	—	—	—	—
2,1	0,90	2,4	—	5,2	0,85	8,9	—	0,31	—	—	0,31	0,7
—	0,94	—	1,10	—	0,94	0,98	—	—	—	—	—	0,05
—	—	—	—	—	0,99	{1,03 2,8	—	0,08	—	—	—	2,1
—	—	—	0,81	9,5	{1,45 0,72	4,2	—	—	—	—	—	0,04

**TABLE VI. EARTHQUAKES WHICH
OCCURRED IN THE IZU ISLANDS.**

No.	Date. 1900.	Time of occurrence (1st N. J. T.)	Duration of				
			Total eqke.	1st P. T.	2nd P. T.	Total P. T.	P. P.
		h m s	m s	m s	m s	m s	m s
11	Jan. 18	4. 23. 28 p.m.	2. 35	—	—	0. 16	—
208	July 21	7. 29. 5 a.m.	12. 10	—	—	1. 12	1. 21
292	Nov. 1	9. 50. 15 a.m.	24. 00	—	—	0. 13(?)	0. 50
294	" 5	9. 16. a.m.	13. 00	—	—	—	—
295	" "	— a.m.	—	—	—	—	—
296	" "	2. 10. 41 p.m.	34. 10	—	—	0. 25	2. 10
297	" "	2. 47. 57 p.m.	5. 38	—	—	0. 20	—
298	" "	2. 53. 44 p.m.	1. 34	—	—	—	—
299	" "	3. 7. 29 p.m.	3. 53	—	—	—	—
300	" "	4. 14. 58 p.m.	1. 35	—	—	—	—
301	" "	4. 41. 42 p.m.	(^{more} than 4h)	0. 17(?)	0. 10(?)	0. 27	13. 22
302	" "	5. 05. 32 p.m.	10. 50	—	—	0. 25	1. 23
303	" "	5. 19. 34 p.m.	30. 00	—	—	0. 24	10. 38
304	" "	6. 39. 22 p.m.	1. 34	—	—	—	—
305	" "	7. 11. 40 p.m.	3. 39	—	—	—	—
306	" "	7. 15. 02 p.m.	2. 08	—	—	—	—
307	" "	7. 17. 26 p.m.	4. 20	—	—	—	—
308	" "	7. 26. 49 p.m.	1. 35	—	—	—	—
309	" "	7. 38. 36 p.m.	15. 50	—	—	0. 19	2. 35
310	" "	7. 55. 18 p.m.	2. 02	—	—	—	—
311	" "	8. 12. 48 p.m.	1. 54	—	—	—	—
312	" "	8. 24. 44 p.m.	2. 43	—	—	—	—
313	" "	8. 52. 57 p.m.	3. 36	—	—	—	—
314	" "	8. 58. 49 p.m.	0. 39	—	—	—	—
315	" "	9. 17. 56 p.m.	13. 50	—	—	0. 19	2. 30
316	" "	9. 35. 46 p.m.	10. 5	—	—	0. 20	3. 15
317	" "	9. 45. 27 p.m.	20. 00	—	—	0. 21	4. 54
318	" 6	0. 42. 19 a.m.	8. 35	0. 11	0. 09	0. 20	1. 54
319	" "	3. 48. 41 a.m.	1. 33	—	—	0. 14	—

TABLE VI.

No.	Date. 1900.	Time of occurrence. (1st N. J. T.)	Duration of				
			Total eq. e.	1st P. T.	2nd P. T.	Total P. T.	P. P.
320	Nov. 6	h m s 1. 49. 59 p.m.	m s 5. 35	m s —	m s —	m s 0. 27	m s 2. 49
321	" "	3. 50. 14 p.m.	4. 50	—	—	0. 15 (?)	—
322	" "	3. 58. 38 p.m.	0. 54	—	—	—	—
323	" "	6. 13. 54 p.m.	53. 00	—	—	0. 24	12. 8
324	" 8	2. 57. 47 a.m.	5. 19	—	—	0. 14	—
325	" "	6. 49. 02 p.m.	5. 00	—	—	—	—
326	" 9	1. 41. 19 a.m.	10. 51	—	—	1. 8	3. 35
327	" "	1. 52. 19 a.m.	6. 4	—	—	0. 47	—
328	" "	2. 55. 03 a.m.	(more than 2 hs)	0. 56	0. 43	1. 39	14. 35
329	" "	5. 45. 20 a.m.	10. 30	—	—	0. 16	1. 31
330	" "	11. 29. 59 a.m.	20. 20	—	—	1. 05	3. 10
334	" 10	5. 27. 07 a.m.	12. 00	—	—	—	—
335	" "	7. 12. 31 a.m.	11. 30	—	—	0. 39	2. 31
337	" "	8. 1. 35 p.m.	2. 42	—	—	—	—
339	" 11	3. 46. 29 p.m.	2. 44	—	—	0. 14	1. 26
340	" "	3. 23. 00 a.m.	2. 42	—	0. 8 (?)	—	1. 08
363	" 19	10. 58. 29 p.m.	19. 40	0. 12	0. 13	0. 25	2. 47
338	Dec. 1	0. 33. 14 p.m.	16. 30	—	—	0. 25	2. 04

(Continued.)

Average period in							Max. range of motion in					
1st P. T.		2nd P. T.		P. P.		E. P.	1st P. T.		2nd P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	s	s	mm	mm	mm	mm	mm	mm
—	—	—	—	4,5	1,02	—	—	—	—	—	0,05	0,02
—	—	—	—	—	1,11	—	—	—	—	—	—	0,19
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	1,02	{ 17,2 11,4	{ 1,7 1,2	{ 6,4 11,0	—	—	—	0,18	{ 2,4 1,8	{ 0,7 —
—	—	—	—	6,8	1,0	6,8	—	—	—	—	0,02	—
—	—	—	—	7,5	0,99	—	—	—	—	—	0,04	—
—	1,07	—	—	8,0	—	—	—	—	—	—	0,05	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	0,81	{ 3,1 9,3	—	{ 27,6 12,9 9,9 7,8	—	{ 7,8 9,3	—	0,04	{ — —	0,33	{ 15,5 22,0 21,1 21,9	—
—	0,76	—	—	—	0,85	3,1	—	—	—	—	0,13	—
—	0,98	—	—	{ 11,8 8,3	1,06	{ 9,1 3,9	—	—	—	—	{ 0,24 0,19	0,18
—	—	—	—	7,1	—	—	—	—	—	—	0,05	—
—	0,89	—	—	7,8	—	—	—	—	—	—	0,11	—
—	—	—	—	—	1,00	—	—	—	—	—	—	—
—	—	—	—	—	1,01	—	—	—	—	—	—	—
—	—	—	—	—	0,89	—	—	—	—	—	—	0,04
—	—	—	0,91	10,4	0,97	{ 9,3 3,4	—	—	—	0,08	0,5	0,44
—	—	—	0,95	{ 4,2 11,8	0,94	—	—	—	—	—	{ 0,13 0,18	0,14

**TABLE VII. EARTHQUAKES WHICH
JAPAN.**

No.	Date. 1900.	Time of occurrence. (1st N. J. T.)	Duration of				
			Total eqke.	1st P. T.	2nd P. T.	Total P. T.	P. P.
121	Feb. 2	h m s 5. 04. 26 p.m.	h m 0. 55	m s —	m s —	m s 2. 44	m s 6. 22
126	June 9	9. 12. 45 p.m.	1. 17	2. 15.	2. 00.	4. 15	7. 10
257	Sept. 15	1. 23. 27 p.m.	0. 24	—	—	1. 19	5. 17

**TABLE VIII. EARTHQUAKES WHICH
JAPAN.**

7	Jan. 17	h m s 0. 13. 36 a.m.	m s 14. 00	m s —	m s —	m s 0. 15	m s 2. 15
69	March 22	0. 56. 07 a.m.	17. 50	—	—	0. 43	1. 47
120	May 31	5. 45. 17 p.m.	8. 25	—	—	0. 36	1. 48
268	Oct. 2	3. 37. 51 a.m.	18. 40	—	—	0. 11	0. 54
366	Nov. 27	9. 16. 01 p.m.	4. 13	—	—	0. 51	—

TABLE XI. EARTHQUAKES OF

4	Jan. 13	h m s 1. 20. 23 a.m.	m s 11. 00	m s —	m s —	m s 1. 29	m s 3. 00
75	March 29	4. 38. 52 p.m.	4. 21	—	—	0. 28	—
85	April 25	8. 18. 52 a.m.	(the two eqkes lasted together 2h 22m)	0. 19	0. 19	0. 38	1. 20
83	" "	8. 23. 02 a.m.		—	—	0. 48	16. 52
113	May 24	0. 11. 17 a.m.	19. 20	—	—	1. 33	5. 50

ORIGINATED IN WESTERN

(Group VI.)

Average period in							Maximum range of motion in					
1st P. T.		2nd P. T.		P. P.		E. P.	1st P. T.		2nd P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	s	s	mm	mm	mm	mm	mm	mm
—	—	—	—	25,4	22,2	7,7	—	—	—	—	0,09	—
8,4	1,1	9,7	—	—	{ 17,2 5,2	8,5	0,04	—	0,06	—	0,44	—
—	0,98	—	—	—	{ 10,4 2,4 1,4	7,3	—	—	—	—	0,13	0,17

ORIGINATED IN CENTRAL

(Group VII.)

s	s	s	s	s	s	s	mm	mm	mm	mm	mm	mm
—	—	—	—	7,9	0,87	—	—	0,13	—	—	1,0	0,68
—	—	4,8	1,24	{ 2,8 7,7	1,05	{ 3,7 7,4	—	—	0,08	0,06	0,43	0,4
—	0,99	—	—	30,6	0,93	—	—	—	—	—	0,08	0,06
—	—	—	—	3,4	0,97	0,99	—	—	—	—	—	0,03
—	0,94	—	—	7,5	1,07	—	—	—	—	—	0,08	0,03

MISCELLANEOUS ORIGINS. (Group IX.)

s	s	s	s	s	s	s	mm	mm	mm	mm	mm	mm
—	—	—	—	{ 7,5 15,0	—	—	0,13	—	—	—	0,5	—
—	—	—	1,1	9,6	1,08	—	—	—	—	—	—	—
—	0,78	2,2	0,76	4,1	0,82	{ 4,5 8,2	—	—	—	0,06	0,23	0,48
{ 2,9 18,1	0,93	—	—	{ 7,4 17,3	1,68	8,8	0,45	0,44	—	—	1,14	0,25
—	1,03	—	—	{ 3,8 7,6	1,06	4,5	—	—	—	—	0,13	0,16

TABLE IX. LOCAL EARTHQUAKES
(Group VIII, A)

No.	Date.		Time of occurrence.			Duration of			
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.	
			h	m	s	m	s	m	s
6*	Jan.	15	0.	33.	07 p.m.	5.	30	—	—
14	"	21	6.	27.	14 p.m.	3.	56	0.	44
23*	Feb.	3	7.	9.	55 p.m.	4.	50	0.	34
25	"	9	6.	38.	48 a.m.	3.	23	0.	21
38†	"	16	4.	35.	00 p.m.	2.	24	0.	—
39	"	17	0.	52.	32 p.m.	3.	40	0.	04
40	"	18	2.	46.	54 a.m.	2.	38	0.	—
41	"	18	8.	03.	43 a.m.	3.	02	0.	14
42†	"	20	11.	50.	42 p.m.	2.	55	0.	30
46	March	1	7.	32.	14 a.m.	2.	28	0.	—
47	"	"	10.	08.	11 p.m.	3.	10	1.P.T.:— 0. 07 2.P.T.:— 0. 07	2. 05
50	"	4	11.	58.	09 a.m.	12.	00	1.P.T.:— 0. 06 2.P.T.:— 0. 03	1. 48
57	"	9	6.	01.	11 p.m.	5.	50	0.	59
65	"	15	6.	23.	40 p.m.	4.	13	0.	41
66	"	16	10.	02.	22 p.m.	8.	30	0.	49
70	"	23	5.	32.	34 p.m.	17.	40	0.	22
71	"	"	8.	54.	33 p.m.	9.	40	0.	09
77	April	15	7.	51.	27 a.m.	14.	20	0.	11
80	"	20	9.	08.	05 p.m.	3.	14	0.	11
87*	"	25	0.	19.	28 p.m.	2.	33	0.	29
99	May	5	9.	16.	10 a.m.	3.	42	0.	15
106	"	15	7.	12.	50 a.m.	13.	00	0.	13
107	"	"	9.	04.	00 p.m.	4.	10	0.	06
111*	"	21	8.	27.	23 a.m.	5.	30	0.	09
119	"	31	5.	39.	58 a.m.	10.	10	1.P.T.:— 0. 11 2.P.T.:— 0. 11	3. 18
125	June	8	8.	30.	56 p.m.	4.	00	0.	06
128	"	10	7.	29.	19 p.m.	3.	20	0.	14
131*	"	13	1.	42.	51 p.m.	0.	15	0.	03

TABLE IX.

No.	Date.		Time of occurrence.			Duration of			
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.	
			h	m	s	m	s	m	s
135*	June	20	4.	31.	30 p.m.	2.	30	—	—
163	"	26	9.	48.	35 p.m.	4.	45	{ 1. P. T.:— 0. 06	—
164†	"	"	10.	15.	09 p.m.	2.	39	{ 2. P. T.:— 0. 06	—
165	"	"	10.	19.	43 p.m.	3.	12	{ 0. 08 1. P. T.:—	1. 46
166	"	27	0.	53.	30 a.m.	1.	49	{ 2. P. T.:— 0. 08	0. 34
172	July	2	5.	38.	27 p.m.	12.	55	0. 11	1. 44
177	"	8	11.	47.	38 a.m.	19.	10	{ 1. P. T.:— 0. 07	4. 15
180	"	10	11.	45.	25 p.m.	9.	10	{ 2. P. T.:— 0. 07	1. 51
184	"	13	7.	19.	53 p.m.	3.	44	0. 04	1. 02
187	"	"	10.	21.	23 p.m.	2.	21	0. 07	0. 14
188	"	14	7.	19.	05 a.m.	2.	19	—	0. 15
190	"	"	8.	11.	37 a.m.	4.	00	0. 06	0. 74
191	"	"	8.	21.	17 a.m.	4.	33	{ 1. P. T.:— 0. 06	0. 56
204	"	16	5.	32.	37 p.m.	6.	47	{ 2. P. T.:— 0. 05	1. 39
207†	"	20	4.	34.	35 p.m.	4.	15	{ 0. 16 1. P. T.:— ?	1. 10
212*	"	24	9.	52.	27 p.m.	3.	49	{ 2. P. T.:— 0. 04	—
223*	Aug.	2	3.	42.	41 p.m.	1.	60	0. 05	1. 26
227*	"	"	7.	17.	20 p.m.	Short	—	—	—
231	"	8	7.	15.	04 p.m.	3.	64	—	—
232*	"	13	1.	19.	07 a.m.	5.	14	0. 10	0. 52
233*	"	"	1.	45.	01 a.m.	1.	30	0. 07	1. 12
239	"	17	6.	56.	24 a.m.	2.	34	—	—
244*	"	27	2.	15.	49 a.m.	2.	55	0. 03	0. 26
245	"	"	2.	59.	52 p.m.	8.	53	0. 08	0. 32
246	"	"	4.	27.	35 p.m.	4.	25	{ 0. 04 1. P. T.:— 0. 12	1. 32
								{ 2. P. T.:— 0. 07	0. 45

(Continued).

Average period in					Maximum range of motion in			
P. T.		P. P.		E. P.	P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	mm	mm	mm	mm
—	—	—	—	—	—	—	—	0,08
—	0,89	—	1,4	{ 0,91 3,4	—	—	—	0,4
—	0,89	—	0,94	—	—	—	—	—
—	0,84	—	0,88	2,9	—	—	—	0,05
—	—	—	0,84	0,97	—	—	—	0,03
—	0,87	7,3	0,86	3,4	—	—	0,13	0,16
—	0,95	3,5	0,89	3,7	—	0,06	0,8	1,03
—	0,83	—	0,84	3,2	—	0,04	—	1,5
—	0,83	—	0,97	1,01	—	—	—	0,04
—	—	—	0,69	1,00	—	—	—	—
—	—	—	0,76	0,80	—	—	—	—
—	0,67	—	0,77	0,98	—	—	—	0,1
—	—	—	0,86	0,86	—	—	—	0,09
—	0,84	—	0,80	3,7	—	—	—	0,19
—	—	—	0,88	0,95	—	—	—	—
—	0,77	—	0,81	10,6	—	—	—	0,08
—	—	—	—	—	—	—	—	—
—	0,68	—	0,75	—	—	—	—	0,03
—	—	—	0,66	2,4	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,85	—	0,64	0,80	—	—	—	0,04
—	—	—	0,87	—	—	—	—	0,04
—	0,68	—	0,79	{ 0,94 2,3	—	0,24	—	2,05
—	1,05	2,7	0,93	{ 0,95 1,9	—	0,04	—	0,12

TABLE IX.

No.	Date.		Time of occurrence.			Duration of			
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.	
			h	m	s	m	s	m	s
247	Aug.	27	4.	32.	35 p.m.	3.	20	0.	08
256	Sept.	10	9.	39.	50 p.m.	2.	04	0.	—
276*	Oct.	9	1.	40.	03 a.m.	2.	08	0.	49
280*	"	11	4.	03.	44 a.m.	4.	48	0.	10
331*	Nov.	9	10.	32.	21 p.m.	3.	05	—	—
336*	"	10	2.	15.	18 p.m.	1.	59	—	—
338*	"	11	1.	10.	10 a.m.	3.	01	0.	08
344	"	13	6.	15.	27 a.m.	2.	49	0.	12
351*	"	14	7.	18.	31 p.m.	4.	12	0.	51
352*	"	15	3.	13.	25 a.m.	Short	—	—	—
353*	"	"	3.	16.	56 a.m.	4.	23	0.	18
356	"	"	8.	05.	33 a.m.	5.	28	0.	12(?)
358	"	"	10.	53.	35 p.m.	3.	41	0.	11
362	"	19	4.	55.	33 p.m.	1.	00	—	—
367†	"	28	2.	43.	12 a.m.	—	—	—	—
370†	Dec.	2	5.	27.	37 a.m.	2.	28	0.	15
377*	"	17	0.	59.	35 a.m.	1.	23	—	0.
378†	"	"	9.	28.	02 a.m.	2.	09	0.	06
382†	"	19	9.	23.	50 p.m.	3.	50	0.	13
384*	"	29	3.	32.	51 p.m.	4.	20	—	—

**TABLE X. LOCAL UNFELT EARTHQUAKES,
SEISMOGRAPHS.**

No.	Date.		Time of occurrence			Duration of					
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.			
			h	m	s	m	s	m	s		
5	Jan.	15	10.	32.	12 a.m.	9.	00	1.	18	2.	00
16	"	27	0.	6.	4 a.m.	1.	38	0.	7	—	—
26	Feb.	9	3.	13.	59 p.m.	1.	9	1. P. T.:— 0. 8 2. P. T.:— 0. 8	—	0.	16
27	"	12	7.	37.	43 a.m.	2.	45	0.	5	0.	8
29	"	13	2.	26.	16 p.m.	0.	53	—	—	—	—
31	"	"	6.	16.	31 p.m.	0.	57	—	—	—	—
32	"	"	7.	53.	36 p.m.	1.	22	—	—	—	—
33	"	"	9.	46.	42 p.m.	1.	35	—	—	—	—
34	"	14	10.	44.	20 a.m.	0.	54	0.	10	—	—
36	"	"	9.	34.	14 p.m.	0.	34	—	—	—	—
48	March	3	1.	47.	58 p.m.	1.	18	—	—	—	—
49	"	"	4.	27.	33 p.m.	2.	50	—	—	—	—
51	"	4	3.	18.	5 p.m.	1.	30	0.	25	—	—
55	"	9	10.	57.	52 a.m.	3.	38	0.	21	0.	7
58	"	12	9.	51.	58 a.m.	4.	10	0.	25	—	—
68	"	18	6.	17.	32 p.m.	5.	20	—	—	—	—
72	"	23	9.	40.	5 p.m.	2.	52	0.	9	0.	10
81	April	22	11.	36.	45 a.m.	2.	51	0.	12	—	—
82	"	"	0.	52.	49 p.m.	1.	21	—	—	—	—
83	"	"	2.	13.	39 p.m.	2.	30	—	—	—	—
84	"	"	5.	43.	48 p.m.	0.	47	—	—	—	—
88	"	27	8.	12.	46 a.m.	2.	3	—	—	—	—
89	"	"	9.	23.	22 a.m.	0.	22	—	—	—	—
90	"	"	11.	18.	42 a.m.	1.	47	—	—	—	—
91	"	"	0.	10.	16 p.m.	3.	35	0.	12	1.	12

NOWHERE RECORDED BY GRAY-MILNE TYPE
(Group VIII, B.)

Average period in					Max. range of motion in			
P. T.		P. P.		E. P.	P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	mm	s	mm	mm
—	—	6,1	—	—	—	—	0,16	—
—	—	—	0,78	—	—	—	—	—
—	{ 0,62 1,17	—	{ 0,65 1,18	—	—	—	—	—
—	—	—	—	—	—	—	—	0,07
—	—	—	0,41	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,36	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,39	—	0,33	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,97	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	1,00	—	1,14	1,00	—	—	—	0,04
—	—	—	0,99	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,96	—	—	—	—	—
—	—	—	0,90	0,95	—	—	—	0,11
—	—	—	1,04	—	—	—	—	0,05
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,67	—	0,86	—	—	—	—	0,01

TABLE X.

No.	Date.		Time of occurrence.			Duration of				
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.		
			h	m	s	m	s	m	s	
93	April	28	2.	12.	8 p.m.	0.	32	0.	2(?)	—
94	"	"	3.	16.	39 p.m.	0.	28	0.	2 ⁴ / ₁₆	—
95	"	"	6.	24.	12 p.m.	—	—	—	—	—
96	"	"	7.	7.	26 p.m.	0.	48	0.	4	—
100	May	5	11.	45.	16 p.m.	6.	20	1. P. T.:— 0. 29 2. P. T.:— 0. 29	1. 12	—
102	"	12	9.	47.	50 a.m.	1.	43	—	—	—
103	"	"	5.	37.	47 p.m.	1.	4	—	—	—
108	"	16	10.	43.	42 p.m.	—	—	—	—	—
115	"	27	1.	59.	50 a.m.	5.	00	0.	17	—
123	June	7	1.	50.	43 a.m.	1.	30	0.	16	—
132	"	13	1.	56.	9 p.m.	—	—	—	—	—
133	"	"	3.	5.	20 p.m.	0.	27	—	—	—
134	"	"	4.	42.	59 p.m.	1.	00	—	—	—
139	"	25	7.	55.	26 a.m.	7.	5	1. P. T.:— 0. 12 2. P. T.:— 0. 12	1. 6	—
140	"	"	9.	24.	3 a.m.	11.	20	0.	15	1. 17
141	"	"	9.	44.	33 a.m.	2.	41	0.	8	—
142	"	"	10.	14.	49 a.m.	0.	24	—	—	—
143	"	"	10.	20.	33 a.m.	0.	55	—	—	—
144	"	"	11.	56.	9 a.m.	13.	5	1. P. T.:— 0. 7 2. P. T.:— 0. 8	1. 7	—
145	"	"	3.	47.	4 p.m.	9.	10	0.	37	1. 43
146	"	"	4.	9.	2 p.m.	1.	7	—	—	—
147	"	"	4.	53.	37 p.m.	1.	26	—	—	—
148	"	"	4.	54.	29 p.m.	5.	40	—	—	0. 45
149	"	"	5.	25.	31 p.m.	2.	37	0.	6	—
150	"	"	5.	46.	43 p.m.	0.	18	—	—	—

TABLE X.

No.	Date 1900.		Time of occurrence. (1st N. J. T.)			Duration of			
						Total eqke.	P. T.	P. P.	
			h	m	s	m	s	m	s
151	June	25	6.	9.	27 p.m.	1.	30	—	—
156	"	26	5.	24.	3 a.m.	—	—	—	—
157	"	"	6.	25.	53 a.m.	—	—	—	—
158	"	"	10.	56.	27 a.m.	6.	00	—	—
162	"	"	9.	21.	31 p.m.	0.	27	—	—
167	"	27	0.	40.	33 p.m.	2.	56	0.	5(?)
168	"	"	2.	—	p.m.	2.	27	0.	10(?)
173	July	3	6.	16.	48 a.m.	4.	56	—	—
174	"	5	3.	19.	33 p.m.	3.	20	—	—
175	"	"	4.	25.	21 p.m.	1.	47	—	—
176	"	8	—	—	a.m.	1.	27	—	—
178	"	10	9.	39.	41 a.m.	0.	50	—	—
179	"	"	10.	57.	51 p.m.	2.	54	—	0. 23
181	"	13	4.	2.	7 p.m.	3.	14	0.	13
182	"	"	5.	39.	24 p.m.	3.	23	0.	10
183	"	"	6.	41.	2 p.m.	1.	37	—	—
185	"	"	7.	23.	23 p.m.	3.	5	0.	5(?)
186	"	"	7.	38.	8 p.m.	1.	50	—	—
192	"	14	8.	40.	23 a.m.	2.	5	—	—
193	"	"	1.	58.	5 p.m.	1.	42	—	—
194	"	"	2.	44.	50 p.m.	1.	9	—	—
195	"	"	3.	4.	35 p.m.	2.	19	—	—
193	"	"	3.	51.	10 p.m.	0.	55	—	—
197	"	"	5.	24.	50 p.m.	1.	19	—	—
198	"	"	5.	27.	6 p.m.	1.	44	—	—
199	"	"	10.	23.	28 p.m.	1.	00	—	—
200	"	15	2.	13.	13 a.m.	5.	30	0.	22
202	"	16	9.	27.	54 a.m.	Short	—	—	—
203	"	"	9.	41.	15 a.m.	"	—	—	—
205	"	17	0.	49.	59 p.m.	10.	00	1. P.T.:	—
								0. 5	1. 10
								2. P.T.:	—
								0. 6	—

(Continued.)

Average period in					Max. range of motion in			
P. T.		P. P.		E. P.	P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	mm	mm	mm	mm
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,98	—	—	—	—	—
—	—	—	0,86	—	—	—	—	0,04
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,96	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,83	0,91	—	—	—	0,02
—	0,65	—	0,83	0,97	—	—	—	0,03
—	0,78	—	0,88	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,88	1,05	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	1,05	5,9	1,17	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,87	3,3	0,93	{ 3,8 6,6	—	—	0,11	—

TABLE X.

No.	Date.		Time of occurrence.			Duration of			
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.	
			h	m	s	m	s	m	s
206	July	17	3.	30.	56 p.m.	2.	20	—	—
210	"	24	1.	33.	10 p.m.	0.	58	—	—
211	"	"	9.	32.	24 p.m.	0.	58	—	—
215	"	25	9.	00.	44 a.m.	Short	—	—	—
216	"	"	10.	00.	31 a.m.	"	—	—	—
217	"	23	7.	34.	26 a.m.	9.	20	0.	18
228	August	4	5.	55.	15 a.m.	—	—	—	—
234	"	13	2.	16.	40 a.m.	1.	45	—	—
235	"	"	2.	42.	19 a.m.	1.	30	—	—
242	"	25	11.	38.	52 p.m.	2.	38	0.	14
243	"	26	9.	7.	34 p.m.	—	—	—	—
248	"	28	7.	3.	6 p.m.	1.	15	—	—
251	Sept.	1	11.	16.	18 a.m.	3.	30	0.	16
254	"	10	4.	45.	33 p.m.	3.	30	0.	16
261	"	19	4.	—	p.m.	2.	23	0.	14
264	"	26	5.	52.	27 p.m.	1.	31	—	—
265	"	29	2.	38.	14 p.m.	2.	4	0.	12
267	Oct.	2	2.	14.	29 a.m.	1.	53	0.	12
275	"	8	11.	42.	49 p.m.	2.	7	0.	9
281	"	11	6.	26.	43 p.m.	2.	6	—	—
282	"	12	4.	3.	47 a.m.	5.	00	0.	6
283	"	13	8.	1.	38 a.m.	17.	20	0.	33
285	"	16	8.	38.	29 p.m.	2.	1	0.	18
287	"	19	11.	48.	31 a.m.	2.	30	—	—
289	"	26	0.	28.	32 p.m.	9.	34	0.	11(?)
290	"	27	2.	58.	45 a.m.	6.	37	0.	22
343	Nov.	13	6.	12.	49 a.m.	1.	45	—	—
349	"	14	2.	0.	4 p.m.	11.	40	—	—
350	"	"	3.	33.	43 p.m.	0.	57	—	—
357	"	15	7.	40.	18 p.m.	4.	17	0.	5

(Continued.)

Average period in					Maximum range of motion in			
P. T.		P. P.		E. P.	P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	mm	mm	mm	mm
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,89	9,9	0,91	{ 2,9	—	—	0,09	—
—	—	10,3	—	{ 5,4	—	—	0,02	—
—	—	6,0	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,78	{ Init. vib.	0,43	0,85	—	—	0,12	0,09
—	—	1,02	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,68	—	0,81	0,85	—	—	—	0,04
—	—	—	1,00	—	—	—	—	—
—	—	—	0,83	—	—	—	—	0,06
—	—	—	0,93	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	0,77	13,7	1,03	1,09	—	—	—	0,14
—	—	—	0,93	—	—	—	0,09	—
—	—	—	0,97	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	{ 2,0	0,81	—	—	—	—	—
—	—	5,6	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	0,88	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	8,3	1,00	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	10,3	0,92	—	—	—	—	—

TABLE X.

No.	Date.		Time of occurrence.			Duration of				
	1900.		(1st N. J. T.)			Total eqke.	P. T.	P. P.		
			h	m	s	m	s	m	s	
• 354	Nov.	15	3.	24.	33 a.m.	2.	40	—	—	
359	„	16	9.	18.	15 a.m.	4.	23	0.	21	
360	„	„	9.	32.	53 a.m.	3.	18	—	3.	18
361	„	17	6.	56.	35 a.m.	7.	00	—	—	
364	„	20	9.	24.	34 p.m.	5.	00	—	—	
374	Dec.	4	1.	12.	20 a.m.	3.	56	0.	19	
381	„	19	8.	53.	10 a.m.	5.	51	0.	28	
385	„	30	0.	26.	26 a.m.	1.	24	—	0.	17

(Continued.)

Average period in					Maximum range of motion in			
P. T.		P. P.		E. P.	P. T.		P. P.	
Slow waves.	Quick waves.	Slow waves.	Quick waves.		Slow waves.	Quick waves.	Slow waves.	Quick waves.
s	s	s	s	s	mm	mm	mm	mm
—	—	—	—	—	—	—	—	—
—	—	26,8	0,89	—	—	—	0,03	—
—	—	9,4	0,93	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	1,03	—	—	—	—	—
—	0,79	—	0,76	—	—	—	—	—
—	—	—	0,70	—	—	—	—	—

TABLE XII.

LIST OF THE EARTHQUAKES OBSERVED BY THE GRAY-MILNE
SEISMOGRAPH AT THE CENTRAL METEOROLOGICAL
OBSERVATORY.* 1900, TŌKYŌ.

{ 2a = Range of motion (Double amplitude)
{ T = Complete period of vibration.

Month.	Day.	Time of occurrence.	Duration.	Direction.	Max. Hor. Mot.		Max. Vert. Mot.		Intensity.	Remarks.	
					T.	2a	T.	2a			
I.	15	0. 33. 5 p.m.	m. s.	—	—	—	—	—	Slight.*		
	17	0. 14. 12 a.m.	2. 25	{ ENE WSW.	0.5	0.7	0.7	0.2	"	The max. horizontal and the vertical movements took place respectively 11 and 15 sec. after the commencement. The duration of the vertical motion was 98 sec.	
	18	4. 26. 24 p.m.	—	—	—	—	—	—	"		
	"	4. 46. 2 "	—	—	—	—	—	—	"*		
	21	6. 29. 10 "	1. 30	{ WNW ESE.	0.3	0.8	—	—	Weak.	The vertical motion lasted about 12 sec.	
	27	0. 16. 13 a.m.	—	—	—	—	—	—	Slight.*		
	31	2. 37. 45 "	—	—	—	—	—	—	"		
	II.	1	4. 24. 10 "	—	—	—	—	—	—	"	The motion was gentle.
		7	9. 54. 41 "	—	—	—	—	—	—	"*	
		"	10. 10. 12 "	—	—	—	—	—	—	"*	
9		6. 39. 60 "	—	—	—	—	—	—	"*		
12		7. 37. 41 "	—	—	—	—	—	—	"*		
13		1. 28. 19 p.m.	—	—	—	—	—	—	"*		
15		8. 30. 36 "	—	—	—	—	—	—	"*		
16		9. 10. 28 a.m.	—	—	—	—	—	—	"*		
"	10. 53. 2 "	—	—	—	—	—	—	"*			
"	4. 35. 4 p.m.	—	—	—	—	—	—	"*			
17	0. 54. 48 "	1. 12	{ WSW ENE.	0.2	0.3	0.1	0.1	"	The horizontal motion was active for about 10 sec. The vertical motion lasted about 1m 10s.		
18	2. 47. 2 a.m.	—	—	—	—	—	—	"*			
"	8. 4. 30 "	—	—	—	—	—	—	"*			

* Those marked with *asterisks* are slight *unfelt* earthquakes.

