

British Association for the Advancement of Science.

Circular No. 15, issued by the Seismological Committee, Professor J. W. JUDD, C.B., F.R.S. (Chairman), Mr. JOHN MILNE, F.R.S., Shide, Isle of Wight (Secretary).

CONTENTS.

	PAGE
I. <i>General Notes on Registers from Similar Horizontal Pendulums (Milne type)</i>	105
II. <i>Registers from:—</i>	
<i>Shide, Isle of Wight, England (July 4 to December 26, 1906, Nos. 1214 to 1323)</i>	106
<i>Kew, England (July 8 to December 26, 1906, Nos. 704 to 752)</i>	110
<i>Bidston, England (July 4 to December 26, 1906, Nos. 831 to 913)</i>	112
<i>Edinburgh, Scotland (July 10 to December 26, 1906)</i>	113
<i>Paisley, Scotland (July 8 to December 23, 1906, Nos. 340 to 374)</i>	114
<i>San Fernando, Spain (July 20 to December 29, 1906, Nos. 552 to 689)</i>	115
<i>Valetta, Malta (July 7 to December 22, 1906, Nos. 1 to 35)</i>	117
<i>Cape of Good Hope (July 6 to December 26, 1906, Nos. 352 to 400)</i>	119
<i>St. Miguel, Azores (July 13 to December 26, 1906, Nos. 187 to 211)</i>	120
<i>Alipore, Calcutta (July 10 to December 23, 1906, Nos. 437 to 478)</i>	121
<i>Bombay (July 14 to December 26, 1906, Nos. 571 to 1065)</i>	122
<i>Kodakānal, Madras (July 10 to December 26, 1906, Nos. 41 to 73)</i>	123
<i>Batavia, Java (July 1 to December 27, 1906, Nos. 858 to 975)</i>	124
<i>Cairo, Egypt (July 14 to December 27, 1906, Nos. 292 to 314)</i>	127
<i>Pilar, Cordoba (January 2 to December 25, 1906, Nos. 193 to 483)</i>	128
<i>Beirut, Syria (July 6 to December 26, 1906, Nos. 196 to 252)</i>	134
<i>Baltimore, Md., U.S.A. (May 17 to December 26, 1906, Nos. 80 to 148)</i>	135
<i>Irkutsk (July 6, 1905, to September 29, 1906, Nos. 871 to 1250)</i>	136
<i>Trinidad (August 6 to December 26, 1906, Nos. 337 to 393)</i>	139
<i>Honolulu (July 3, 1905, to December 26, 1906, Nos. 135 to 322)</i>	140
<i>Tokyo, Japan (January 13, 1905, to December 12, 1906, Nos. 443 to 668)</i>	144
<i>Perth, W. Australia (July 2 to December 26, 1906, Nos. 1 to 57)</i>	147
<i>Christchurch, New Zealand (January 3 to June 30, 1906)</i>	151
I. <i>General Notes on Registers from Similar Horizontal Pendulums (Milne Type).</i>	

The following registers are continuous with those published by the Seismological Investigation Committee in their first fourteen circulars and in the Reports of the Association, 1896 to 1899.

If observers at these and other places will kindly send a copy of their register, together with copies of their more important seismograms, to the Secretary of the Seismological Investigation Committee, British Association, Burlington House, London, W., as early as possible after June 30, and again after December 31 of each year, the interval of time which must elapse before they receive copies of the registers of co-workers in various parts of the world will be considerably reduced.

The time employed is Greenwich mean time (civil), expressed in hours, minutes, and in decimals of minutes. 24 or 0 hours = midnight.

Amplitude indicates half of the complete range of the maximum motion, and is expressed in millimetres. Values less than 1 millimetre refer to the thickening of the line and indicate half its width.

As 1° turn of the calibrating screw in the bed-plate of the instrument causes a tilt of 1".9, and as this is accompanied by a measurable displacement of the outer end of the boom, it is easy to determine the angular value corresponding to a 1 millimetre displacement. This quantity should be stated at the end of each register.

II. Registers.

*The Register from Shide, Newport, Isle of Wight, England.
Director, JOHN MILNE; Assistant, J. HOWARD BURGESS.*

The following entries refer to records obtained from three pendulums, A, B, and C. The periods and "sensibilities" or deflections for 1° turn of the calibrating screw were as follows:—

A. Period 18 seconds. 1° turn = 4 mm.
B. Period 14 seconds. 1° turn = 9 mm.

C. Period 18 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

P₁ = Preliminary tremors. p. = maximum period. d. = duration.
a = amplitude. Ats. = Air tremors.

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1906.						
1214	July 4	H. M. 7 33.0	H. M. —	MM. 0.1	H. M. 0 27	A.
1215	" 4	9 10.3	—	0.2	0 19	A.
1216	" 6	1 6.0	—	0.2	0 9	A.
		1 15.7	—	0.1	0 5	B.
		1 15.7	—	0.2	0 10	C.
1217	" 7	9 6.0	—	0.2	0 5	A also 9.40. d. = 28, a. = .2.
		9 44.4	—	—	—	B.
		9 6.5	—	0.1	0 5	C.
1218	" 8	23 6.7	23 29.0	0.4	1 10	A.
		23 15.7	23 21.8	0.2	0 20	B.
		23 8.5	23 29.0	0.5	0 47	C.
1219	" 9	12 28.0	—	0.2	0 10	A.
		12 29.2	—	0.1	0 3	B and C.
1220	" 13 & 14	23 50.0	0 15.0	2.0	1 57	A. p. 20s.
		0 0.2	0 12.5	0.7	1 20	B. For C d. = 1.30, a. = 1.5.

The Register from Shide, Newport, Isle of Wight, England—continued.

No.	Date	Commencement		Max.		Max. Amplitude	Duration	Remarks
		H.	M.	H.	M.	MM.	H.	
1221	July 15	17	23.0	—	—	0.2	0 29	A.
1222	" 16	21	45.0	22	6.0	0.4	0 50	A.
		22	4.2	—	—	0.2	0 10	B.
		22	0.2	—	—	0.3	0 11	C.
1223	" 17	8	6.0	—	—	0.1	0 4	A.
		8	37.8	—	—	0.1	0 3	B. Not on C.
1224	" 18	7	27.0	—	—	0.1	0 21	A.
		7	46.3	—	—	0.1	0 3	B. Not on C.
1225	" 20	11	29.7	11	55.0	1.0	1 55	A.
		11	36.1	11	41.2	0.5	0 50	B.
		11	36.1	11	51.5	2.0	0 40	C.
1226	" 22	19	35.3	—	—	0.2	0 8	B.
		19	23.9	—	—	0.5	0 20	C.
1227	" 23	7	6.0	—	—	0.1	0 28	A also at 7 57 and 8 35.
1228	" 24	7	26.0	—	—	0.1	0 21	A.
1229	" 25	23	10.0	—	—	0.1	0 20	A.
1230	" 26	11	2.0	—	—	0.1	0 32	A also at 14 53.
1231	" 27	7	30.0	—	—	0.2	0 20	A.
1232	Aug. 1-2	23	28.1	0	4.0	0.5	1 20	A.
	" 2	0	0.1	0	11.4	0.6	0 42	B.
		0	0.1	0	9.3	0.5	0 40	C.
1233	" 3	7	39.0	—	—	0.2	0 19	A.
		7	40.1	—	—	0.1	0 3	B. Not on C.
1234	" 5	3	1.1	—	—	0.1	0 32	A.
1235	" 7	15	56.9	—	—	0.1	0 3	B and C.
1236	" 8	11	17.0	—	—	0.1	0 3	A.
		11	16.5	—	—	0.1	0 3	C. Not on B.
1237	" 9	0	1.0	—	—	0.2	0 27	A.
1238	" 13	19	18.5	—	—	0.4	0 5	B.
		19	15.5	—	—	0.3	0 5	C.
1239	" 15	8	53.8	—	—	0.1	0 3	B only.
1240	" 15	22	42.2	—	—	0.5	0 5	" "
1241	" 16	8	39.3	—	—	0.1	0 3	" "
1242	" 17	0	31.8	1	49.8	1.0	2 40	A. Boom not entirely free.
		0	30.8	1	17.3	7.0	4 30	B.
		0	24.5	1	45.2	16.0	5 0	C.
		0	24.5	1	5.9	16.0	5 0	C.
		0	24.5	1	49.4	16.0	5 0	C.
1243	" 17	6	59.7	—	—	0.1	0 10	B.
		6	56.6	—	—	0.2	0 58	C.
1244	" 17	10	1.8	—	—	0.1	0 15	B.
		9	57.6	—	—	0.5	0 20	C.
1245	" 17	21	10.0	—	—	0.2	0 42	A.
		21	24.5	—	—	0.2	0 15	C only.
1246	" 18	1	38.0	—	—	0.3	0 38	A.
		1	46.9	—	—	0.2	0 14	C only.
1247	" 18	16	14.0	—	—	0.2	0 32	A.
1248	" 19	9	57.7	10	39.0	0.4	1 25	B.
		10	2.8	10	38.0	0.6	1 21	C.
1249	" 20	3	40.0	—	—	0.2	1 53	A.
1250	" 20	15	42.0	—	—	0.1	0 2	A also at 15 58.
1251	" 21	6	46.3	—	—	0.2	0 25	B. On C Ats.
1252	" 21	12	33.5	—	—	0.1	0 4	B.
		12	21.2	—	—	0.2	0 15	C.

The Register from Shide, Newport, Isle of Wight, England—continued.

No.	Date	Commencement		Max.		Max. Amplitude	Duration	Remarks
		H.	M.	H.	M.	MM.	H.	
1253	Aug. 21	20	46.2	20	54.4	0.6	0 22	B.
		20	50.3	—	—	0.5	0 10	C.
1254	" 22	21	25.2	—	—	0.4	0 10	C. Not on B.
1255	" 24	2	28.8	—	—	0.2	0 37	A.
		2	43.7	—	—	0.4	0 10	C. Not on B.
1256	" 25	12	25.5	12	29.6	0.3	0 30	B.
		12	18.4	12	33.9	0.3	0 38	C.
1257	" 25	13	58.8	14	24.8	1.2	2 10	A. p. 20s.
		14	6.9	14	23.4	1.5	3 28	B.
		14	6.9	14	25.5	1.5	2 55	C.
1258	" 26	6	24.6	7	23.5	0.5	2 20	B.
		6	31.8	7	23.5	1.5	2 20	C.
1259	" 26	9	51.1	—	—	0.2	0 9	B.
		9	55.2	—	—	0.2	0 3	C.
1260	" 27	19	29.0	—	—	0.2	0 6	A.
1261	" 28	6	0.0	6	10.3	0.6	0 30	B.
		5	52.7	6	8.2	0.7	1 55	C. A not working.
1262	" 28	16	55.4	—	—	0.2	0 10	C. Not on B.
1263	" 30	2	57.0	3	32.0	1.5	2 47	C. For B a. = 0.5 and d. 1.55.
1264	" 31	15	29.0	15	48.0	0.5	1 0	A.
		15	41.3	—	—	0.2	0 10	B.
		15	35.2	—	—	0.2	0 15	C.
1265	Sept. 1	17	44.0	—	—	0.2	0 6	A.
1266	" 7	19	7.0	19	54.0	4.0	3 47	A. p. 20s.
		19	10.3	19	55.5	2.0	2 30	B.
		19	17.4	19	46.2	4.0	2 30	C.
1267	" 8	8	7.1	—	—	0.2	0 17	B.
		8	2.0	—	—	0.2	0 20	C.
		8	11.5	—	—	0.2	0 9	A with Ats.
1268	" 13	8	59.7	—	—	0.2	0 6	B.
		8	55.7	—	—	0.2	0 10	C.
1269	" 13	10	17.0	—	—	0.2	0 5	B.
		10	37.3	—	—	0.2	0 3	C.
1270	" 13	15	14.0	—	—	0.2	0 12	A.
1271	" 14	13	23.0	14	10.0	0.8	1 50	A.
		13	47.3	—	—	0.2	0 30	B.
		13	23.5	—	—	1.0	1 50	C.
1272	" 14	16	26.7	17	29.0	6.5	4 0	A. p. for P ₂ 40s. for P ₃ 20s.
		16	28.6	—	—	1.5	2 40	B.
		16	28.6	17	38.3	5.0	3 25	C. p. 40s.
1273	" 15	7	19.0	7	33.0	0.2	1 35	A.
1274	" 17	5	3.6	5	10.8	0.5	0 30	B.
		5	3.6	5	13.8	0.5	0 42	C.
1275	" 17	9	31.0	10	3.0	0.6	2 0	A.
		9	28.4	9	38.5	0.2	0 33	B. On C d. 1.30 and a. 0.6.
1276	" 18	20	17.0	—	—	0.2	0 4	A.
1277	" 20	18	2.7	18	33.0	1.0	2 9	A. p. 20s.
		18	19.1	18	30.3	0.3	0 50	B.
		18	5.7	18	33.4	0.5	1 25	C.

The Register from Shide, Newport, Isle of Wight, England—continued.

No.	Date	Commence-ment		Max.	Max. Ampli-tude	Dura-tion	Remarks.
		H. M.	H. M.				
1278	Sept. 21	18 26.0	16 45.0	0.2	0 52	A.	
1279	" 23	6 29.5	—	0.2	2 25	B.	Intermit- tremors.
1280	" 24	7 41.0	8 00.0	0.2	0 35	A.	
1281	" 28	15 16.0	—	0.2	0 13	A.	
		15 38.0	16 10.0	2.0	1 25	A.	P ₁ 10.3m., p. 20s.
		15 46.0	15 49.0	1.2	1 25	B.	
		15 48.0	16 4.0	0.6	0 58	C.	
1282	" 29	0 16.0	0 28.0	0.2	0 21	A.	
1283	" 29	2 42.6	—	0.2	0 50	B.	
		2 42.6	—	0.2	0 20	C.	
1284	Oct. 2	2 13.2	3 17.0	4.0	3 45	A.	p. 20s.
		2 14.4	3 1.1	2.5	2 52	C.	
		2 14.4	2 55.0	0.5	2 40	B.	
1285	" 2	13 10.0	13 25.0	0.3	0 50	A.	
		14 54.8	—	0.3	1 10	B.	
		14 54.8	—	0.2	0 50	C.	
1286	" 6	13 43.0	—	0.2	0 25	A.	
		13 49.2	—	0.2	0 8	B.	only.
1287	" 8	5 13.7	—	0.2	0 36	A.	
1288	" 10	2 23.2	—	0.2	0 5	B.	
1289	" 10	8 33.4	—	0.2	0 5	B.	
1290	" 10	13 17.0	14 9.3	0.3	1 30	B.	
1291	" 10	23 18.2	—	0.5	1 15	B.	
		23 28.5	—	0.2	0 36	C.	
1292	" 12	11 36.3	—	0.4	0 15	B.	
		11 31.9	—	0.3	0 13	C.	
1293	" 24	14 51.2	15 17.5	4.0	2 13	A.	D. of P ₁ = 11m. p. 20s.
		14 54.8	15 17.5	2.0	1 35	B.	D. of P ₁ = 9m.
		14 54.8	15 15.5	5.0	1 52	C.	
1294	" 29	—	2 10.5	0.5	—	A.	Eqke. ? Ats.
1295	" 30	12 58.5	—	0.2	0 5	B.	only.
1296	" 31	2 16.1	2 34.7	0.4	2 5	B.	On C a. = 0.5. Ats.
1297	Nov. 5	20 22.2	—	0.2	0 3	B.	A not work- ing.
		20 42.7	—	0.2	0 40	C.	
1298	" 6	0 5.8	—	0.2	0 50	B.	A not work- ing.
		0 2.7	—	0.3	0 30	C.	
1299	" 7	1 35.5	—	0.2	0 16	B.	A not work- ing.
		1 30.4	—	0.3	0 30	C.	
1300	" 12	17 58.5	18 16.7	0.6	0 25	B.	A not work- ing.
		17 58.5	18 3.6	0.5	0 32	C.	
1301	" 14	18 18.5	19 15.0	1.5	2 25	A.	p. 18s.
		18 38.1	19 22.8	0.5	1 15	B.	
		18 38.1	19 19.7	0.7	1 30	C.	
1302	" 15	3 57.0	—	0.2	0 25	A.	
1303	" 19	7 40.0	7 50.0	0.5	—	A.	Ats.
		7 43.1	8 31.3	1.0	3 30	B.	
		7 46.1	8 44.6	1.2	3 0	C.	
1304	" 22	0 0.3	—	0.1	0 4	C.	B just visible.

The Register from Shide, Newport, Isle of Wight, England—continued.

No.	Date	Commence-ment		Max.	Max. Ampli-tude	Dura-tion	Remarks
		H. M.	H. M.				
1305	Nov. 28	9 24.9	10 4.0	0.5	1 39	A.	
		9 24.5	—	0.3	0 55	B.	For C d. = 50m.
1306	Dec. 2	—	0 25.5	—	—	A.	Ats.
1307	" 3	23 1.6	23 33.1	1.0	1 23	A.	
		23 10.6	23 31.1	0.5	1 20	B.	
		23 15.8	23 26.1	0.5	1 10	C.	
1308	" 4	1 33.2	—	0.2	0 5	B.	and C.
1309	" 8	18 55.0	—	0.2	0 5	C.	
1310	" 8	21 49.0	22 8.0	0.4	0 42	A.	Eqke.?
1311	" 15	23 30.3	—	0.4	0 8	B.	
1312	" 16	3 44.4	—	0.2	0 3	B.	
1313	" 17	9 37.6	—	0.2	0 13	A.	Eqke.?
1314	" 17	7 42.3	—	0.2	0 5	B.	and C. Eqke.?
1315	" 17	18 3.6	—	0.2	0 25	A.	Eqke.?
1316	" 17	23 2.6	—	0.2	0 7	A.	
1317	" 18	13 17.6	—	0.2	0 4	A.	Also at 13.36 and 13.56.
1318	" 18	21 35.6	22 25.6	0.6	1 45	A.	
		22 29.1	—	0.2	1 15	C.	
		22 51.5	—	0.2	0 5	B.	
1319	" 19	1 24.6	2 45.6	3.5	3 0	A.	
		1 34.1	2 9.0	0.75	2 35	B.	
		1 34.1	2 47.7	2.0	2 50	C.	
1320	" 22	18 16.9	18 57.6	>15.0	>2.40	A.	D. of P ₁ Sm.
		18 20.0	18 57.6	>15.0	2.40	B.	" "
		18 31.2	18 53.5	>15.0	2.25	C.	" "
		—	7 54.0	1.0	—	A.	Ats. pre- sent.
1321	" 23	7 44.0	8 3.0	0.4	0 38	C.	B Ats.
1322	" 23	17 35.0	18 8.0	1.5	>1.54	A.	
		17 38.0	18 7.0	1.5	3 0	B.	
		17 32.0	18 8.0	6.0	3 0	C.	
1323	" 26	6 6.0	6 45.0	2.0	2 15	A.	p. 20s.
		6 12.0	6 19.0	2.0	1 40	B.	
		6 15.0	6 22.0	0.7	1 10	C.	

Register from National Physical Laboratory, Kew Observatory. Director, R. T. GLAZEBROOK, D.Sc., F.R.S.; Superintendent, C. CHREE, LL.D., F.R.S.; Observer, E. G. CONSTABLE.

No.	Date	Commence-ment		Max.	Max. Ampli-tude	Dura-tion	Remarks
		H. M.	H. M.				
1906.							
704	July 8	23 23.4	23 29.0	0.2	0 14	—	
705	" 14	0 0.4	0 17.7	2.5	0 49	—	
706	" 16	21 57.0	22 5.5	0.4	0 16	—	
707	" 18	7 32.0	—	0.2	0 3	—	

Register from National Physical Laboratory, Kew Observatory—continued.

No.	Date	Commencement		Max.		Max. Amplitude.	Duration	Remarks.
		H.	M.	H.	M.			
708	July 20	11	36.2	11	53.7	0.9	0 46	—
709	Aug. 2	0	3.2	0	7.0	0.4	0 31	—
710	" 17	0	33.3	{ 1 5.2 1 50.4	{ 13.1 16.0	0.2	0 36	Chilian eqke.
711	" 17	21	11.3	—	—	0.2	0 14	—
712	" 19	10	26.4	?	—	0.4	0 56	Disturbed by changing of paper.
713	" 21	12	26.0	—	—	0.2	0 5	—
714	" 21	20	47.7	20	52.0	0.8	0 53	Times somewhat approximate.
715	" 24	2	46.0	2	51.5	0.4	0 15	—
716	" 25	12	22.7	12	27.7	0.5	0 21	—
717	" 25	14	9.0	14	20.2	0.8	1 45	—
718	" 26	6	32.7	7	24.0	0.6	2 2	—
719	" 28	6	2.8	6	7.5	0.8	0 14	—
720	" 30	3	3.3	3	31.2	0.7	1 28	—
721	" 31	15	45.7	—	—	0.2	0 5	—
722	Sept. 7	19	22.5	19	47.9	3.3	1 47	—
723	" 13	10	39.3	—	—	0.2	0 6	—
724	" 14	14	8.0	14	23.7	0.4	0 31	—
725	" 14	16	27.7	17	16.7	3.0	2 45	"Repetition" of max. at 17h. 27m.
726	" 15	7	28.0	—	—	0.2	0 20	—
727	" 16	10	26.2	—	—	0.2	0 9	—
728	" 17	5	5.8	5	15.5	0.3	0 19	—
729	" 17	9	34.3	10	1.0	0.4	0 27	—
730	" 20	18	27.9	18	37.7	0.7	0 45	—
731	" 28	15	27.0	15	48.0	1.5	1 20	Masked by A.T.
732	Oct. 2	2	13.7	2	59.8	1.2	2 41	"Repetition" of max. at 3h. 11m.
733	" 6	13	48.5	—	—	0.2	0 4	—
734	" 10	13	53.2	14	6.8	0.3	0 32	—
735	" 10	23	18.0	23	26.5	0.9	0 48	—
736	" 12	11	37.2	—	—	0.2	0 4	—
737	" 17	10	4.0	10	46.5	1.0	1 21	A.T. at times.
738	" 29	2	4.5	2	9.5	0.3	0 34	—
739	" 31	2	27.8	2	30.5	0.3	0 24	—
740	Nov. 12	18	5.7	—	—	0.2	0 5	—
741	" 14	18	38.2	19	12.0	0.6	1 17	—
742	" 19	7	38.5	8	32.3	1.3	2 25	—
743	" 21	23	59.4	—	—	0.2	0 4	—
744	" 28	9	27.7	—	—	0.3	0 50	—
745	Dec. 3	22	59.0	—	—	0.2	1 3	Ill-defined throughout.
746	" 9	22	3.5	—	—	0.2	0 13	—
747	" 18	22	13.8	22	32.0	0.4	0 59	—
748	" 19	1	54.3	2	48.6	2.2	2 16	—
749	" 22	18	20.3	18	55.0	11.4	2 31	—
750	" 23	7	58.0	7	57.0	0.5	0 25	—
751	" 23	17	36.6	18	6.8	3.2	1 40	—
752	" 26	6	16.5	6	32.6	0.8	1 3	—

1906, June 22. Imm. displacement = 0".55.
 August 2. " " = 0".54. } mean = 0".55.
 November 9. " " = 0".56.

Register from Liverpool Observatory, Bidston. Director, W. E. PLUMMER.

No.	Date	Commencement		L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H.	M.						
1906									
831	July 4	—	—	—	—	—	—	—	—
832	" 6	—	—	16 23.0	—	—	—	—	Small.
833	" 8	—	1 15.7	1 18.4	1 33.8	0.2	0 12	—	—
834	" 10	—	23 25.4	23 39.6	23 54.0	—	0 29	—	Small.
835	" 11	—	20 37.0	20 46.7	20 57.0	—	0 20	—	—
836	" 11	—	—	20 12.7	—	—	—	—	—
837	" 14	0 0.3	0 4.6	0 12.8	0 53.6	3.0	0 53	—	—
837	" 16	—	21 56.2	22 2.0	22 11.9	0.4	0 16	—	—
838	" 20	—	11 36.8	11 49.4	12 14.2	1.5	0 38	—	—
839	" 22	—	19 34.4	19 43.0	19 53.8	—	0 19	—	Small.
840	" 24	—	—	21 10.0	—	—	—	—	Disturbance; perhaps A.T.
841	Aug. 1	—	23 5.9	23 8.4	23 27.5	0.3	0 22	—	—
842	" 6	—	—	3 55.0	—	—	—	—	Slight disturbance.
843	" 12	—	12 58.6	13 5.9	13 17.7	—	0 18	—	—
844	" 13	—	13 13.0	13 18.6	13 22.3	—	0 9	—	Slight.
845	" 15	—	22 36.2	22 39.5	22 53.7	—	0 17	—	—
846	" 17	0 35.0	1 2.0	1 50.0	4 30.0	—	3 55	Exceeded width of paper.	Valparaiso.
847	" 17	—	9 54.2	9 59.4	10 16.5	1.0	0 22	—	—
848	" 17	—	11 35.0	—	11 46.0	—	0 11	—	—
849	" 17	—	13 47.9	13 52.1	14 14.0	0.4	0 26	—	—
850	" 17	—	21 15.8	21 18.4	22 1.3	0.3	0 45	—	—
851	" 18	—	1 46.0	1 49.0	1 57.8	—	0 12	—	—
852	" 18	—	8 21.2	8 28.0	8 41.0	—	0 20	—	End doubtful; clock wound.
853	" 19	—	10 22.0	10 33.1	11 5.9	1.5	0 44	—	—
854	" 19	—	16 30.7	16 39.2	17 1.5	0.6	0 31	—	—
855	" 21	—	12 18.3	12 24.0	12 40.0	0.3	0 22	—	—
856	" 21	—	20 46.2	20 51.4	21 23.0	0.9	0 37	—	—
857	" 22	—	21 20.6	21 25.0	21 36.9	0.3	0 16	—	—
858	" 24	—	2 33.7	2 42.2	2 57.0	0.4	0 23	—	—
859	" 25	—	12 23.4	12 27.9	13 0.0	0.5	0 37	—	—
860	" 25	14 6.0	14 14.6	14 23.2	15 21.7	1.2	1 16	—	—
861	" 26	6 30.8	6 58.9	7 17.3	8 5.8	1.7	1 35	—	—
862	" 28	—	5 57.5	6 6.2	6 48.0	0.6	0 50	—	—
863	" 28	—	16 48.0	—	16 57.0	—	0 9	—	Slight.
864	" 30	3 3.1	3 12.5	3 31.7	4 47.2	0.9	1 44	—	—
865	" 31	—	15 41.2	15 48.0	16 12.0	0.4	0 31	—	—
866	Sept. 6	—	19 35.0	19 42.2	19 53.4	0.5	0 18	—	—
867	" 7	—	—	19 45.0	—	—	2.0	—	Light bad and trace faint.
868	" 13	—	8 50.3	8 57.9	9 15.2	0.3	0 25	—	—
869	" 14	—	14 4.9	14 12.0	14 40.8	0.3	0 36	—	—
870	" 14	16 28.0	16 42.0	17 23.1	20 32.0	4.9	4 4	—	—
871	" 20	—	17 57.5	18 1.9	19 3.6	0.5	1 6	—	—
872	" 21	—	2 26.5	2 34.8	3 2.0	0.4	0 35	—	—
873	" 25	—	10 37.0	10 38.7	10 43.3	0.6	0 8	—	—
874	" 25	—	15 48.0	16 6.8	17 6.2	1.0	1 18	—	—
875	" 28	—	4 16.0	4 19.7	4 25.9	—	0 10	—	Small.
876	Oct. 1	—	12 46.2	12 52.4	13 3.7	—	0 18	—	—
877	" 2	—	2 18.0	3 7.8	5 3.0	2.0	2 45	—	—
878	" 2	—	14 57.2	15 35.0	16 23.6	0.4	1 27	—	—
879	" 7	—	11 0.0	—	11 12.0	—	—	—	—
880	" 10	—	8 22.4	8 30.6	8 53.1	—	0 31	—	—
881	" 10	—	13 50.5	14 3.0	14 18.5	0.5	0 28	—	—
882	" 10	—	23 18.3	23 34.2	0 40.2	0.7	1 22	—	—
883	" 11	—	6 19.5	6 17.7	7 2.0	0.5	0 52	—	—
884	" 12	—	11 37.2	11 42.0	11 56.2	0.3	0 19	—	—
885	" 15	—	14 40.8	14 53.0	15 29.1	—	0 48	—	Small.
886	" 17	10 17.0	10 21.3	10 38.8	11 16.3	2.7	0 59	—	—
887	" 24	14 58.1	15 3.0	15 17.9	16 36.0	3.8	1 38	—	—
888	" 29	—	1 34.7	1 48.3	—	0.6	—	—	End uncertain. A.T.
889	" 30	—	—	2 41.0	—	—	—	—	Slight disturbance. A.T.?
890	" 31	—	2 36.2	2 31.7	3 7.8	0.4	0 42	—	—
891	Nov. 5	20 22.0	20 42.7	21 0.0	21 31.5	0.3	1 9	—	—
892	" 6	—	0 2.1	0 27.0	0 32.4	—	0 30	—	Small.
893	" 8	—	1 26.8	1 36.7	2 10.9	0.3	0 44	—	—
894	" 9	—	2 20.0	—	2 25.4	—	0 5	—	Well marked.
895	" 10	—	6 28.9	6 36.8	6 59.7	0.3	0 31	—	—

Register from Liverpool Observatory, Bidston—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
886	Nov. 12	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
887	" 14	—	18 5'7	18 9'0	18 39'3	0'1	0 34	
			18 36'8	18 11'2	20 17'0	1'6	1 41	Small disturbance 18h. 15m.
888	" 16	—	—	16 30'0	—	—	—	Perhaps A.T.
889	" 19	—	7 38'5	7 49'7	8 7'3	1'4	0 28	
900	" 19	—	8 13'0	8 34'7	10 3'2	3'2	1 50	
901	" 22	—	0 25'0	0 28'6	0 38'0	—	0 13	Small.
902	" 25	—	—	—	11 52'0	—	0 18	
903	" 28	—	9 24'0	9 27'8	10 1'7	0'6	0 53	
904	Dec. 3	—	23 16'3	23 26'0	0 7'8	0'6	0 52	
905	" 6	—	12 31'0	—	12 47'0	—	0 16	Perhaps A.T.
906	" 13	—	—	17 39'2	18 24'0	—	0 45	Small.
907	" 15	—	19 32'6	19 38'1	19 43'0	0'3	0 10	
908	" 18	—	22 17'3	22 27'7	22 47'2	0'6	0 30	
909	" 19	1 49'0	2 15'7	2 29'8	3 43'0	4'0	1 54	Light faint.
910	" 22	18 31'5	18 38'3	18 56'8	21 22'7	Exceed- ed width paper.	2 51	
911	" 23	—	7 31'8	7 49'5	8 14'0	—	0 42	
912	" 23	17 39'2	17 42'0	18 5'5	19 24'0	5'3	1 45	
913	" 26	—	6 16'0	6 18'7	7 32'0	2'1	1 16	

Register from Royal Observatory, Edinburgh.
Director, F. W. DYSON, M.A., F.R.S.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906								
July 10		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
" 14	0 1'0	0 8'5	0 9'3	1 0'0	1 2	0 59'0		Begins abruptly.
" 16	22 3'0	—	22 6'0	22 20'0	0'4	0 17'0		
" 20	11 42'0	11 44'0	11 44'5	12 11'0	0'3	0 29'0		
Aug. 1-2	23 59'0	—	0 11'0	0 50'0	0'2	0 51'0		
" 17	0 31'0	1 4'5	1 56'5	4 51'0	9'5	4 20'0		
" 17	7 2'0	—	8 6'5	—	—	1 4'5		Slight tremors.
" 17	9 58'0	—	—	10 17'5	—	0 19'5		" "
" 17	13 51'5	—	—	14 13'5	—	0 22'0		" "
" 17	21 31'5	—	—	21 36'0	—	0 4'5		Very slight tremors.
" 18	1 46'0	—	—	1 59'0	—	0 13'0		" "
" 19	10 25'5	—	10 36'0	11 24'5	0'7	0 59'0		" "
" 19	16 39'0	—	—	17 0'0	—	0 21'0		Very slight tremor.
" 20	11 12'5	—	—	11 19'0	—	0 6'5		" "
" 21	12 20'0	—	—	12 36'0	—	0 16'0		" "
" 21	20 49'5	—	20 51'5	20 55'5	0'6	0 6'0		Slight tremor.
" 24	2 42'0	—	—	2 54'5	—	0 12'5		
" 25	12 28'0	—	12 30'0	12 58'5	0'3	0 30'5		
" 25	14 6'0	14 21'0	14 24'0	15 57'0	1'2	1 51'0		
" 26	6 30'0	—	7 24'0	8 36'5	0'7	2 6'5		
" 28	6 9'5	—	6 6'5	6 17'5	0'5	0 17'0		
" 30	3 5'0	3 29'0	3 25'5	4 33'0	1'2	1 28'0		
Sept. 7	19 16'5	19 41'5	19 49'0	21 40'0	1'9	2 23'5		
" 14	14 9'0	—	14 27'5	14 51'5	0'25	0 42'5		
" 14	16 33'0	—	17 17'0	17 26'5	2'0	2 59'5		
" 17	5 7'0	—	—	5 30'0	—	0 23'0		Very slight tremors.
" 17	9 40'0	—	—	11 10'0	—	1 30'0		Very slight tremors some zigzag.
" 19	5 45'0	—	—	5 48'5	—	0 3'5		Slight tremors.

Register from Royal Observatory, Edinburgh—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
	Sept. 20	—	—	19 29'0	19 33'5	19 49'5	0'3	0 20'5
	" 21	—	—	2 37'0	—	3 20'0	—	0 43'0
	" 28	—	15 47'0	15 48'5	16 50'5	1'1	1 3'5	Slight tremors. Begins abruptly. No. P.T's.
	" 29	4 21'5	—	—	4 24'5	—	0 3'0	Slight tremor.
	Oct. 2	2 13'5	3 7'0	3 14'5	4 53'5	1'0	2 35'0	
	" 2	14 56'0	—	15 33'5	16 6'5	0'2	1 10'5	
	" 8	—	—	4 53'0	5 7'0	0'7	0 14'0	Begins abruptly.
	" 9	13 37'0	—	13 58'0	14 25'5	0'25	0 48'5	
	" 10-11	23 20'0	—	23 35'5	0 23'0	0'3	1 3'0	
	" 11	6 22'0	—	—	6 49'0	—	0 27'0	Very slight tremors.
	" 13-14	22 19'0	—	6 26'0	10 50'0	0'3	12 31'0	Slight tremors, mostly of the zigzag type.
	" 17	10 13'0	10 38'0	10 43'5	11 16'0	1'8	1 3'0	
	" 24	14 54'5	15 3'0	15 18'0	16 15'5	2'6	1 21'0	
	" 29	2 5'5	2 9'5	2 12'0	2 19'0	1'2	0 13'5	
	" 31	2 23'5	—	2 34'5	3 6'0	0'25	0 40'5	
	Nov. 12	18 1'5	—	18 6'5	18 15'0	0'3	0 13'5	
	" 14	18 18'5	—	19 19'0	20 2'0	0'4	1 43'5	
	" 19	7 39'0	7 48'5	8 37'5	10 9'5	1'1	2 30'5	
	" 21-22	23 57'0	—	23 58'5	0 1'0	0'3	0 4'0	Single tremor. Another smaller.
	" 22	—	—	0 28'0	—	—	—	
	" 26	0 26'0	—	9 59'5	10 23'5	0'5	0 57'5	
	Dec. 4-5	23 7'5	—	23 32'0	0 6'0	0'4	0 58'5	
	" 15	19 35'5	—	—	19 38'0	—	0 2'5	Single small tremor.
	" 18	22 27'5	—	—	22 39'0	0'25	0 11'5	
	" 19	1 52'0	2 40'5	2 50'5	4 10'0	1'4	2 18'0	
	" 22	18 30'0	18 47'5	18 52'5	20 37'0	6'5	2 7'0	
	" 23	7 20'5	—	7 45'0	8 16'5	0'2	0 47'0	
	" 23	17 35'5	17 57'0	18 3'0	19 19'5	2'6	1 44'0	
	" 26	6 7'5	6 17'0	6 36'0	7 26'5	0'5	1 19'0	

1906, Nov. 9. 1° of footscrew = 3.50mm. on photographic roll.
Dec. 26. " = 3.55mm. "

Mean = 3.52 mm.

∴ 1 mm. amplitude = 0°54.3 tilt of pillar.

Register from the Coats Observatory, Paisley.
Superintendent, DAVID CRILLEY.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906								
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
340	July 8	—	—	—	—	—	—	Disturbed tremors.
341	" 14	0 1'5	—	0 1'5	—	—	—	Tremors.
	" 14	0 7'5	—	—	—	—	—	
342	" 20	11 36'2	11 43'5	—	12 30'0	—	0 53'5	Faint.
343	" 21	—	—	8 22'0	—	—	—	" ?
344	" 30	—	—	14 20'0	—	—	—	Doubtful.
345	Aug. 1	—	—	19 43'0	—	—	—	Very doubtful.
346	" 2	—	—	0 10'0	—	—	—	"
347	" 2	—	—	2 3'0	—	—	—	"
348	" 17	0 32'2	0 45'0	1 55'0	4 40'0	8'0	4 7'8	"
349	" 17	Further faint movements at 6-5, 7-2.5, 7-54, 9-46 onwards.						

Register from the Coats Observatory, Paisley—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
350	Aug. 19	H. M. 10 24.0	H. M. —	H. M. 10 37.0	H. M. 11 23.0	MM. 0.6	H. M. 0 53.0	—
351	" 19	—	—	16 45.0	—	—	—	Very faint.
352	" 21	—	—	20 13.0	—	—	—	Thickening.
353	" 21	20 14.0	—	20 49.5	21 5.0	0.6	0 21.0	Thickening.
354	" 25	—	—	12 31.0	—	—	—	—
355	" 25	14 6.0	—	14 24.5	15 27.0	1.0	1 21.0	Faint.
356	" 25	—	—	17 32.0	—	—	—	—
357	" 26	6 30.0	—	7 35.0	—	—	1 5.0	—
358	" 28	2 1.0	—	2 28.0	—	—	0 27.0	—
359	" 28	5 58.5	—	6 22.0	—	0.5	0 23.5	—
360	Sept. 7	—	—	19 53.5	—	—	2.0	Tremors.
361	" 14	16 45.0	—	17 27.0	—	—	1.0	Odd-tremors.
362	Oct. 17	19h. to 29d. Boom ressing on	d. 19h. 21m. friction on scale. Adj.	10 44.3	roller not adjusted at 6 p.m.	—	1.0	Instrument disturbed.
363	" 24	—	15 4.5	15 21.0	—	—	4.0	—
364	" 29	—	—	2 11.0	—	—	1.3	A.T.
365	" 31	1 28.5	—	1 51.6	—	—	—	—
366	Nov. 12	—	and	2 34.0	3 18.0	0.3	—	—
367	" 19	7 48.5	—	18 7.5	After 9h.	0.4	—	—
368	Dec. 3	—	—	7 50.5	—	—	0.7	—
369	" 5	—	—	11 30.0	—	—	—	Doubtful.
370	" 7	—	—	0 25.0	—	—	—	—
371	" 7	—	—	4 20.9	—	—	—	—
372	" 10	—	—	11 19.0	—	—	—	—
373	" 19	2 34.0	—	3 13.0	3 57.0	0.8	1 23.0	A.T.
374	" 22	18 31.7	18 39.4	18 56.7	20 39.0	14.0	2 7.3	—
374	" 23	17 41.0	17 48.3	18 4.0	19 33.0	2.3	1 52.0	—

Register from the Observatorio de Marina de San Fernando, Spain.
Director, Capitán de Fragata TOMÁS DE AZCÁRATE.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Total Duration	Max. Ampli- tude	Remarks
1906								
552	July 20	H. M. 11 24.1	H. M. 11 37.3	H. M. 11 43.9	H. M. 11 55.6	MM. 0 31.5	MM. 0.60	—
553	" 22	18 56.6	19 23.0	19 25.1	19 44.9	0 48.3	0.70	—
554	" 28	5 13.1	—	—	7 25.3	2 12.2	—	Tremors.
555	" 28	23 41.6	—	—	—	4 58.0	—	Tremors.
556	" 29	—	—	—	4 40.5	—	—	Tremors.
557	" 31	4 6.0	—	—	7 11.1	3 5.1	—	Tremors.
557	Aug. 1	23 40.6	—	—	—	0 50.9	0.70	—
558	" 4	2 6.2	0 11.1	0 12.2	0 31.5	—	—	Tremors.
559	" 8	1 25.6	—	—	10 14.3	8 8.1	—	Tremors.
560	" 9	1 19.6	—	—	5 29.6	4 0.0	—	Tremors.
561	" 11	0 25.7	—	—	8 27.4	8 27.4	—	Tremors.
562	" 17	0 28.4	0 35.5	1 10.1	1 14.7	1 16.4	1 17.8	Valparaiso earth- quakes.
				1 22.3	1 22.3	1 22.3	1 22.3	
				1 35.7	1 35.7	1 35.7	1 35.7	
				1 39.1	1 39.1	1 39.1	1 39.1	
				1 44.2	1 44.2	1 44.2	1 44.2	
563	" 17	9 50.3	9 50.3	9 53.3	10 10.6	0 20.3	0.55	—
564	" 17	13 41.1	13 41.1	13 48.8	14 0.6	0 25.5	0.70	—
565	" 18	1 37.1	8 18.8	8 36.1	8 54.4	7 17.3	0.50	—

Register from the Observatorio de Marina de San Fernando, Spain—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Total Duration	Max. Ampli- tude	Remarks
566	Aug. 19	H. M. 9 51.8	M. H. 10 22.8	M. H. 10 26.9	H. M. 11 10.6	H. M. 1 18.8	MM. 1.75	—
567	" 19	19 27.9	16 32.5	16 35.6	16 52.3	0 24.4	0.50	—
568	" 21	—	—	—	6 38.2	8 58.0	—	Tremors.
569	" 21	20 46.3	20 49.4	20 50.9	21 22.9	0 36.6	1.50	Small movements.
570	" 22	20 13.8	—	—	20 44.3	0 30.5	—	Tremors.
571	" 24	0 11.8	—	—	3 2.6	2 50.8	—	—
572	" 25	11 59.6	12 20.9	12 26.5	17 36.2	5 36.6	1.00	—
			14 3.1	14 16.3	—	4.70	—	
			—	14 20.4	—	5.00	—	
573	" 26	5 25.1	7 9.8	7 17.5	9 58.6	4 33.5	1.50	—
574	" 28	5 55.6	6 7.3	6 8.8	6 28.6	0 33.0	0.60	—
575	" 28	16 46.4	—	—	17 23.1	0 38.7	—	Very small move- ments.
576	" 30	2 50.6	3 22.1	3 26.7	5 18.1	2 27.5	1.60	—
			—	3 30.8	—	2.00	—	
577	" 31	15 35.4	—	—	16 5.9	0 30.5	—	Small movements.
578	Sept. 3	0 25.2	—	—	3 2.8	2 37.6	—	Tremors.
579	" 5	0 49.6	—	—	9 1.0	8 21.4	—	—
580	" 6	2 3.1	—	—	8 31.8	6 28.5	—	—
581	" 7	19 20.4	19 47.9	19 52.4	21 25.5	2 5.1	2.00	—
			—	20 6.2	—	0.50	—	
582	" 13	8 37.4	8 46.0	8 47.5	8 58.2	0 20.8	2.30	—
583	" 14	13 33.8	13 59.2	14 1.8	15 9.4	1 35.6	1.00	—
584	" 14	16 16.5	17 8.4	17 24.1	19 36.9	3 20.4	8.60	—
585	" 16	1 25.8	—	—	9 25.8	8 0.0	—	Tremors.
586	" 17	9 53.0	9 51.2	10 24.3	10 59.9	1 21.9	0.75	—
587	" 20	12 6.5	—	—	13 3.4	0 56.9	—	Very small move- ments.
588	" 20	17 56.3	18 23.2	18 24.3	18 52.2	0 55.0	0.50	—
589	" 21	1 46.1	—	—	3 25.8	1 39.7	0.40	Small movements.
590	" 21	16 9.0	—	—	16 47.2	0 38.2	0.40	—
591	" 24	17 19.7	17 10.7	17 11.2	17 13.8	0 3.1	0.40	—
592	" 25	1 36.2	—	—	6 51.4	5 15.2	—	Tremors.
593	" 26	1 26.0	—	—	7 1.6	5 35.6	—	—
594	" 28	15 31.7	15 43.9	15 45.4	19 46.4	4 14.7	1.10	—
595	Oct. 2	2 12.9	3 0.7	3 43.9	4 21.0	2 8.1	1.60	—
596	" 2	14 46.9	14 53.0	15 25.1	16 6.8	1 19.9	0.80	—
597	" 4	1 9.8	—	—	7 15.9	6 6.1	—	Tremors.
598	" 10	13 43.5	—	—	14 32.3	0 48.8	0.50	Small movements.
599	" 11	21 50.6	—	—	—	—	—	Air tremors.
600	" 11	—	—	—	9 25.2	11 34.6	—	—
601	" 12	11 33.8	11 35.4	11 36.4	11 43.5	0 9.7	0.50	—
602	" 15	14 11.1	15 8.2	15 9.3	16 25.4	2 14.3	0.50	—
603	" 16	20 40.4	—	—	—	4 32.6	—	Air tremors.
604	" 17	10 25.2	10 44.0	10 45.5	11 7.4	0 42.2	0.80	—
605	" 24	14 58.8	15 17.1	15 23.2	16 41.6	1 42.8	2.75	—
606	" 29	2 1.9	—	—	7 59.9	5 58.0	0.55	Small movements.
607	" 30	3 1.9	—	—	9 54.8	9 52.4	—	Tremors.
608	Nov. 31	2 32.9	2 35.5	2 37.5	3 33.2	0 50.3	0.75	—
609	" 6	20 30.3	—	—	22 4.8	1 34.5	0.50	Small movements.
610	" 7	0 9.9	—	—	9 40.4	0 39.5	0.30	—
611	" 9	7 0.19.0	—	—	9 35.4	9 16.4	0.60	—
612	" 9	16 22.1	—	—	16 57.2	0 35.1	—	Very small move- ments.
613	" 14	18 9.9	19 6.4	19 12.0	19 57.2	1 47.3	2.60	—
614	" 16	2 56.4	—	—	9 51.6	7 15.2	—	Very small move- ments.
615	" 17	2 37.4	—	—	9 35.4	6 58.0	—	Very small move- ments.
616	" 19	7 40.4	8 28.2	8 32.3	9 58.7	2 18.3	3.50	—
617	" 20	5 42.6	—	—	9 36.5	3 55.9	—	Very small move- ments.
618	" 22	0 0.0	0 0.9	0 2.4	0 4.9	0 4.9	0.50	—
619	" 22	0 31.4	0 31.4	0 33.4	0 34.4	0 3.0	0.30	—
620	" 25	1 30.4	—	—	9 40.5	8 10.1	—	Tremors.
621	" 27	0 12.8	—	—	0 43.5	0 30.7	0.30	Very small move- ments.
622	Dec. 1	4 22.2	9 25.3	9 30.4	10 37.5	6 15.3	6.60	—
	" 2	23 43.5	—	—	—	—	—	—
	" 2	7 20.9	7 20.9	7 48.6	11 16.8	11 33.3	0.50	—

Register from the Observatorio de Marina de San Fernando, Spain—continued.

No.	Date	Commencement	L.W. Commence		Max.	End	Total Duration	Max. Amplitude	Remarks
			H. M.	H. M.					
623	Dec. 3	—	23 9·8	23 23·9	—	—	—	—	—
624	" 4	—	—	—	—	—	1 14·1	—	—
624	" 7	1 35·4	—	—	6 12·9	—	8 50·9	—	Very small movements.
625	" 8	22 8·2	22 8·2	—	22 11·3	0 3·1	0·25	—	Small movements.
626	" 16	3 42·8	—	—	5 43·8	2 1·0	—	—	Very small movements.
627	" 17	4 6·3	—	—	10 6·8	6 0·5	—	—	Very small movements.
628	" 18	0 44·7	—	—	7 25·5	6 40·6	—	—	Tremors.
629	" 18	21 49·3	22 23·8	22 28·1	23 13·0	1 23·7	1·00	—	—
630	" 19	1 33·9	2 35·2	2 41·7	3 37·6	2 23·7	9·60	—	Tremors till 10h.
631	" 21	2 18·5	—	—	8 55·2	6 36·7	—	—	Tremors.
632	" 22	4 25·6	—	—	9 25·8	5 0·2	—	—	Tremors.
633	" 22	18 31·7	18 48·8	18 59·3	22 18·6	3 46·9	8·90	—	—
634	" 23	7 25·6	7 57·2	7 59·7	9 40·4	2 14·8	1·10	—	—
635	" 23	17 40·4	18 1·8	18 7·4	20 20·0	2 39·6	6·25	—	—
636	" 24	2 59·8	—	—	10 30·4	7 30·6	—	—	Tremors.
637	" 26	6 4·2	6 14·6	6 15·6	7 9·0	1 4·8	1·50	—	—
638	" 27	23 33·0	—	—	—	—	—	—	Tremors.
639	" 28	—	—	—	2 18·6	—	—	—	—
639	" 28	21 25·5	—	—	—	—	—	—	Tremors.
639	" 29	—	—	—	10 28·2	13 2·7	—	—	—

Imm. = 0"25. Period = 20s.

Register from the University, Valetta, Malta.
Officer in charge, C. LEACH.

The Seismological Station,
The University,
Valetta, Malta.

Lat. 35-53-48. Lon. 14-30-50. Altitude 121·2ft.

Foundation is on Limestone rock. The pier is a column of the same material left standing when the rest of the room was cut out from the solid rock.

Topographical Situation.—In a room under the University buildings which are situated on the promontory of Valetta and between the Grand and the Quarantine Harbours, the distance from the Grand Harbour being 250yds. and from the Quarantine Harbour 550yds.

The Station is a Meteorological Observatory.

Geological Structure.—Valetta is on Globigerina Limestone, and the Station is on the higher part of the ridge which runs N.E. & S.W.

Time-keeping.—Time is kept by the clock working the time-shutter electrically. It is corrected from gun-fire at 12 a.m. daily.

The clock keeps excellent time.

C. LEACH,
Officer in charge.

Register from the University, Valetta, Malta—continued.

No.	Date	Commencement	Max.	Duration	Amplitude	Remarks
1906.						
1	July	7	11 35·7	12 22·0	3 12·0	0·5
2	"	20	5 52·0	6 48·2	2 8·0	1·5
3	"	16	5 52·0	6 38·5	?	0·5
4	Aug.	8	—	1 31·5	?	1·0
5	"	19	—	11 31·2	—	2·5
6	"	19	—	17 42·3	—	1·0
7	"	25	1 55·2	2 12·5	0 41·40	7·5
8	"	30	—	3 40·3	—	4·0
9	Sept.	5	19 6·3	19 52·0	1 3·30	2·0
10	"	12	—	9 44·5	0 44·0	2·5
11	"	14	3 27·7	4 41·5	0 42·50	2·0
12	"	20	6 5·5	6 37·7	0 40·0	1·25
13	"	27	—	12 16·5	1 4·0	0·5
14	Oct.	2	2 4·7	3 25·3	2 3·0	2·0
15	"	2	14 48·5	15 8·0	1 53·55	0·5
16	"	3	1 48·5	2 20·0	1 52·0	0·3
17	"	10	2 7·0	2 38·0	0 31·50	0·2
18	"	17	10 4·0	10 42·0	1 18·0	0·3
19	"	19	9 9·0	9 52·0	0 44·0	0·5
20	"	20	16 33·0	16 54·5	0 2·0	0·2
21	"	24	2 50·0	3 19·0	1 45·0	2·0
22	Nov.	5	20 24·5	20 27·7	0 18·0	0·3
23	"	11	6 21·7	6 47·7	0 26·0	7·0
24	"	11	7 42·5	7 55·2	0 12·5	9·5
25	"	12	1 44·2	1 58·7	0 18·30	2·0
26	"	14	6 18·0	7 24·3	1 21·0	1·5
27	"	19	7 2·0	7 55·0	3 0·0	3·0
28	"	21	14 22·0	23 46·0	—	1·0
29	"	22	—	8 18·0	—	2·5
30	"	25	11 30·0	11 42·0	1 22·0	0·2
31	"	28	9 28·5	10 5·0	0 30·0	0·5
32	Dec.	4	23 12·0	23 44·0	0 44·0	0·3
33	"	5	—	—	—	—
34	"	15	19 27·0	19 32·0	0 27·0	0·3
35	"	22	—	—	—	—

Period equals 20 seconds.

1° = 5mm.

Imm. = 0"38.

Continuous to
22nd.

Continuous tremors to Dec.
15.

Shutter over slit.

Register from the Royal Observatory, Cape of Good Hope, South Africa.
Director, Sir DAVID GILL, K.C.B., F.R.S.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End.	Max. Ampli- tude	Duration	Remarks.
1906								
352	July 6	H. M. 1 35.5	H. M. —	H. M. —	H. M. 1 34.0	MM. 0.4	H. M. 0 2.5	—
353	" 11	0 55.0	—	—	1 0.0	0.2	0 5.0	—
354	" 13	16 40.0	—	—	23 30.0	—	6 50.0	Tremors.
355	" 14	0 5.0	0 24.5	0 29.0	1 8.0	0.6	1 3.0	—
356	" 14	12 10.0	—	14 4.0	15 20.0	0.2	3 10.0	—
357	" 15	16 30.0	July 16th.	—	4 0.0	—	11 30.0	Long series of well-defined tremors.
358	" 17	20 30.0	" 18th.	7 30.0	—	—	11 0.0	Long series of well-defined tremors.
359	" 19	20 0.0	" 20th.	6 0.0	—	—	10 0.0	Tremors.
360	" 20	11 40.0	—	11 55.0	12 5.0	0.6	0 25.0	—
361	" 22	13 48.0	18 56.5	13 58.0	13 18.0	1.5	0 30.0	—
362	Aug. 17	0 41.5	1 2.0	1 37.5	3 59.0	9.5	3 17.5	Amp. measured from base line.
363	" 17	6 40.0	—	7 11.0	—	—	0 31.0	Slight thickening.
364	" 17	9 44.0	—	10 15.0	—	—	0 31.0	—
365	" 17	13 50.0	—	13 43.5	14 6.0	0.4	0 36.0	Slight vibrations.
366	" 19	0 51.0	—	10 18.0	10 26.0	1.0	0 59.0	—
367	" 19	16 19.0	—	16 31.0	17 0.0	0.3	0 41.0	—
368	" 21	12 6.0	—	12 16.0	—	—	0 10.0	Thickening.
369	" 25	12 12.0	—	12 17.0	12 33.0	1.1	0 26.0	—
370	" 25	14 3.0	14 11.0	14 12.0	15 35.0	4.5	1 32.0	—
371	" 26	6 28.0	—	7 14.0	9 51.1	0.9	3 23.0	Series of vibrations reaching max. at time noted.
372	" 30	2 50.0	—	3 23.0	4 35.0	1.0	1 45.0	—
373	Sept. 7	19 14.0	—	20 17.8	21 23.0	0.6	2 9.0	—
374	" 13	10 7.0	—	—	10 27.0	—	0 20.0	Tremors.
375	" 14	13 21.0	—	13 33.5	13 45.0	1.2	0 24.0	—
376	" 14	13 21.5	—	—	—	—	—	Sudden slight change of level.
377	" 14	16 24.5	17 7.0	17 10.0	19 13.0	8.0	2 48.5	—
378	" 17	9 24.0	—	9 43.5	10 54.0	0.9	1 30.0	—
379	" 21	16 9.0	—	16 20.0	16 20.0	0.4	0 11.0	—
380	" 28	13 49.2	—	16 23.9	16 56.0	0.6	1 6.8	—
381	Oct. 2	2 13.5	3 2.5	3 5.0	4 50.0	3.0	2 31.5	—
382	" 2	14 42.0	—	14 45.5	15 21.5	1.5	0 39.5	—
383	" 10	2 34.0	—	—	—	—	—	Thickening of trace
384	" 17	10 46.0	—	11 32.0	—	—	0 46.0	Tremors.
385	" 20	14 50.0	—	—	—	—	—	Change of level.
386	" 24	15 5.5	15 30.0	15 37.2	16 18.0	2.0	1 12.5	Thickening.
387	" 28	16 13.5	—	—	16 19.5	—	0 6.0	—
388	" 29	2 38.0	—	—	—	—	—	—
389	" 31	3 0.0	—	3 17.0	—	—	0 17.0	Slight vibrations.
390	Nov. 14	18 15.0	—	18 57.4	20 17.0	0.5	2 2.0	—
391	" 19	7 31.0	—	8 2.0	10 10.0	4.3	2 39.0	? times. Instrument disturbed during eq. during eq. tremors.
392	" 28	9 20.0	—	10 5.0	—	—	0 45.0	—
393	Dec. 3	23 22.0	—	23 42.0	—	—	0 30.0	Slight vibrations.
394	" 12	23 28.0	—	23 33.0	—	—	0 5.0	Slight thickening.
395	" 18	22 9.0	—	22 22.0	—	—	0 23.0	Thickening.
396	" 19	1 54.0	2 23.0	2 23.0	4 10.0	1.6	2 16.0	—
397	" 22	18 47.0	19 17.0	19 19.0	20 56.0	3.8	2 9.0	—
398	" 23	3 32.0	—	—	3 55.0	—	0 23.0	Vibrations.
399	" 23	17 59.0	—	18 59.0	19 38.0	1.2	1 59.0	—
400	" 20	6 15.5	—	6 21.5	7 18.5	0.9	1 3.0	—

July 14, 1mm. of boom motion = 0".14. Boom period = 20 secs.

Aug. 18, " " " " 0".15. " " " " 19 "

Sept. 8, " " " " 0".14. " " " " 20 "

Oct. 6, " " " " 0".14. " " " " 20 "

Nov. 17, " " " " 0".13. " " " " 21 "

Dec. 15, " " " " 0".14. " " " " 20 "

h. m. h. m. h. m. h. m.
Sept. 5, 9 30 to Sept. 6, 9 7, lamp failed. Sept. 18, 9 30 to Sept. 19, 8 45, boom displaced.
Oct. 7, 9 6 to Oct. 8, 8 50, boom displaced. Oct. 19, 8 44 to Oct. 11, 8 40, " "
Nov. 23, 9 0 to Nov. 24, 8 30, lamp failed. Nov. 26, 10 48 to Nov. 27, 8 30, " "

Register from Ponta Delgada, St. Miguel, Azores.
Director, Major F. A. CHAVES.

No.	Date	Commence- ment	Max.	Semi- Ampli- tude	Duration	Remarks
1906						
187	July 13 and 14	H. M. 23 50.0	H. M. 23 57.6	MM. 5.0	H. M. 2 2.2	I. of the Mercalli's scale
188	July 20	11 26.7	11 34.3	5.2	1 11.9	Idem.
191	Register lost from Aug. 17	0 26.3	18h. 15m. on Aug. 17.7	2.3	3 30.4	I. of the Mercalli's scale
192	" 19	10 15.0	—	—	0 7.5	Idem—Thickening of line.
193	" 21	20 44.6	20 45.7	1.1	0 36.9	Idem.
194	" 30	2 37.6	—	—	1 22.0	Idem—Thickening of line.
195	Sept. 10	9 9.1	9 11.5	1.1	0 9.5	Idem.
196	" 14	16 26.2	16 46.2	0.9	2 31.8	Idem.
197	Register lost from Sept. 28	15 34.8	14h. 22m. to 15h. 15.3	1.3	1 42.8	I. of the Mercalli's scale
198	" 29	4 11.0	15 44.6	—	0 31.0	Idem—Thickening of line.
199	Oct. 2	2 13.7	—	—	1 4.8	Idem—Idem.
200	" 10 and 11	23 12.8	—	—	1 51.4	Idem—Idem.
202	Oct. 12	11 28.7	11 30.0	5.5	0 48.7	Idem.
" 24	15 2.8	—	—	—	1 19.6	Idem—Thickening of line.
" 28	3 49.0	—	—	—	0 3.4	Idem—Idem.
" 29	1 51.3	2 2.0	—	2.3	1 30.5	Idem.
" 29	12 4.3	—	—	—	0 18.5	Idem—Thickening of line.
205	Nov. 19	7 38.0	7 42.2	1.0	1 49.0	Idem.
207	" 28	9 22.7	—	—	0 30.9	Idem—Thickening of line.
208	Dec. 3 and 4	23 6.1	23 12.3	0.65	1 4.7	Idem.
210	Dec. 19	1 33.8	—	—	2 33.9	Idem—Thickening of line.
" 22	18 33.8	19 11.9	—	1.4	1 38.1	Idem.
" 23	17 33.0	—	—	—	1 26.0	Idem—Thickening of line.
211	" 26	6 3.3	6 12.7	1.1	1 34.5	Idem.

Mean scale value 1mm. = 0".46.

Register from Alipore Observatory, Calcutta.
G. W. KÜCHLER, Assistant Meteorological Reporter.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude.	Duration	Remarks
1906								
437	July 10	H. M. 19 55.0	H. M. 20 0.1	H. M. 20 14.3	H. M. 20 29.6	MM. 0.50	H. M. 0 34.6	—
438	" 21	5 41.8	5 53.0	5 59.1	6 43.8	1.00	1 2.0	Doubtful.
439	" 28	13 9.3	—	13 11.3	13 18.4	0.75	0 9.1	—
440	Aug. 1	23 55.0	23 56.0	23 57.0	?	1.00	—	End cannot be as- certained as it has terminated with the morning air- tremors.
441	" 15	22 18.4	—	22 18.9	22 23.5	0.75	0 5.1	—
442	" 16	23 53.0	17/8/06 0 29.6	0 52.0 2 9.2 2 13.3	5 19.4	18.00 (a)	5 26.4	(a) Measured from the base line, as the boom moved throughout the whole breadth of the trace three times; three dif- ferent times of the max. displace- ments have been noted; the max. amplitude cannot be accurately de- termined.
443	" 20	10 54.0	10 57.7	11 3.1	11 23.5	1.00	0 29.5	—
444	" 25	12 10.3	—	12 24.5	12 39.8	0.75	0 29.5	—
445	" 25	14 3.1	—	14 17.4	15 17.4	5.00	1 14.3	—
446	" 26	6 11.3	6 19.4	6 33.6	7 41.8	1.25	1 30.5	—
447	" 30	3 2.1	4 2.1	4 11.3	4 59.1	1.75	1 57.0	—
448	" 31	6 5.7	—	6 9.2	6 22.5	0.50	0 18.3	—
449	" 31	14 59.6	—	15 2.1	15 36.2	9.00 (a)	0 36.6	(a) Measured from the base line.
450	Sept. 2	0 1.1	—	0 3.1	0 16.4	0.75	0 15.3	—
451	" 7	19 2.1	19 11.3	19 25.5	22 15.3	6.00	3 13.2	—
452	" 14	14 12.3	—	14 22.5	15 14.3	0.50	1 2.0	—
453	" 14	16 13.4	16 24.5	16 44.8	19 42.6	1.50	3 27.4	—
454	" 15	10 49.9	—	10 48.4	10 59.0	0.50	0 3.9	—
455	" 17	4 43.8	—	4 46.9	5 2.1	1.25	0 18.3	—
456	" 17	8 57.0	—	—	10 2.1	—	1 5.1	Thickening of line.
457	" 28	15 56.5	—	17 10.3	17 32.1	0.50	1 35.6	—
458	" 29	5 8.7	—	5 8.7	5 9.2	?	0 0.5	(b) As the boom moved through the whole breadth of the trace the max. amplitude cannot be ascer- tained.
459	Oct. 2	14 54.0	15 31.6	15 46.9	16 22.5	0.75	1 23.5	—
460	" 6	12 32.0	13 2.1	13 7.3	13 22.5	1.00	0 30.6	—
461	" 10	1 36.7	1 42.8	1 44.8	2 10.3	3.00	0 33.6	—
462	" 10	12 59.1	13 5.2	13 23.5	13 54.0	0.75	0 54.9	—
463	" 17	9 46.9	9 55.5	10 6.2	10 59.1	1.50	1 12.2	—
464	" 24	14 48.9	14 53.0	14 54.0	16 28.0	5.00	1 39.1	—
465	" 23	16 1.1	—	16 5.2	16 39.7	1.00	0 38.6	—
466	" 31	2 62.9	—	2 15.3	2 31.9	1.75	0 45.7	—
467	Nov. 5	20 6.2	20 11.3	20 12.8	26 43.8	0.75	0 37.6	—
468	" 12	17 39.8	17 44.8	17 46.4	18 2.1	1.25	0 22.3	—
469	" 14	18 1.6	18 22.5	18 23.5	19 21.4	0.50	1 19.8	—
470	" 19	7 25.5	7 32.6	7 58.6	11 2.1	5.75	3 36.6	—
471	" 28	10 31.6	—	10 47.9	11 3.1	0.50	0 31.5	—
472	Dec. 6	12 9.3	—	—	12 9.8	—	0 0.5	—
473	" 6	12 14.8	—	12 14.8	12 15.4	6.00 (c)	0 0.6	(c) Measured from the base line.
474	" 9	19 6.7	—	19 9.3	19 16.4	0.50	0 9.7	—
475	" 13	13 10.3	—	13 12.3	13 20.4	0.50	0 10.1	—
476	" 19	8 52.0	—	—	8 55.0	—	0 3.0	Thickening of line.

Register from Alipore Observatory, Calcutta—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
477	Dec. 22	H. M. 17 49.8	H. M. —	H. M. 17 49.9	H. M. 20 14.3	MM. 14.00 (c)	H. M. 2 33.5	(c) Measured from the base line as the watch which marks the time is under repair the approx. times of commencement max. and end as far as can be deter- mined are given.
478	" 23	17 31.1	18 2.1	18 12.3	20 17.9	5.50	2 46.8	—

Sensibility throughout 1mm. = 0°38 of tilt.

Register from the Government Observatory, Bombay.
Director, N. A. F. MOOS.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906								
577	July 14	H. M. 0 43.4	H. M. —	H. M. 0 55.1	H. M. 1 16.1	MM. 0.8	H. M. 0 32.7	—
620	Aug. 1-2	23 59.6	—	0 6.4	0 22.5	0.5	0 22.9	—
657	" 17	0 27.1	—	—	4 34.3	—	4 7.2	As the traces over- lap max. ampli- tude cannot be found out.
655	" 25	12 6.6	—	12 15.5	12 28.6	0.9	0 22.0	—
687	" 25	14 0.2	—	14 9.3	15 4.2	5.0	1 4.9	—
715	" 30	3 46.3	—	4 6.8	4 48.7	1.3	1 2.4	—
721	" 31	15 2.9	—	15 6.4	15 21.2	0.9	0 18.3	—
752	Sept. 7	19 16.8	—	19 37.1	20 36.0	2.1	1 25.2	—
776	" 14	14 9.8	—	14 12.1	14 38.9	0.7	0 35.0	—
777	" 14	16 9.3	—	17 2.4	19 21.0	2.4	3 4.7	—
806	" 20	18 46.9	—	18 54.9	19 7.9	0.7	0 21.0	—
841	Oct. 2	2 12.9	—	2 51.2	4 48.9	1.7	2 36.0	—
856	" 6	12 55.4	—	13 3.7	13 27.1	0.4	0 31.7	—
867	" 10	13 9.3	—	13 31.3	13 56.1	0.8	0 46.8	—
868	" 10-11	23 25.6	—	23 38.7	0 9.2	0.9	0 43.6	—
881	" 17	9 54.4	—	10 14.4	11 1.6	1.6	1 7.2	—
895	" 24	14 56.1	—	—	15.4	—	—	End lost in shifting time.
903	" 31	2 19.2	—	2 21.0	2 57.4	0.7	0 38.2	—
946	Nov. 14	18 9.5	—	18 37.9	19 20.7	0.6	1 11.2	—
937	" 19	7 27.9	—	7 52.4	9 42.0	8.7	2 14.1	—
978	" 28	10 10.6	—	10 27.6	10 55.5	0.6	0 44.9	—
1037	Dec. 19	1 44.3	—	2 36.2	4 3.7	1.9	2 24.4	—
1047	" 22	18 26.9	—	18 39.1	20 57.0	9.0	2 30.1	—
1051	" 23	7 40.6	—	8 0.6	8 43.2	0.6	1 2.6	—
1052	" 23	17 45.2	—	18 22.7	20 14.8	4.0	2 29.6	—
1065	" 26	6 13.6	—	7 18.8	7 57.7	1.0	1 44.1	—

Between 1st July and 30th July, 1906, 1.0mm of amplitude = 0°47 and between 31st July and 31st December, 1906, 1.0mm of amplitude = 0°37.

Where no distinction of P.T. or L.W. can be made, the commencement of disturbance is entered in the column of "P.T. commence."

Register from the Solar Physics Observatory, Kodaikānal, Madras.
Director, C. MICHE SMITH.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude.	Dura- tion.	Remarks
1906								
41	July 10	H. M. 20 00.8	H. M. —	H. M. —	H. M. 20 14	MM. —	H. M. 0 13	Widening of line.
42	" 14	0 45.2	0 52.6	0 53.7	—	0.5 0.2	—	"
43	Aug. 10	4 07.6	4 10.1	4 10.8	4 14	0.5 0.2	0 06	Widening of line.
44	" 15	22 26.5	—	—	22 33	—	—	No first P.T's.
45	" 17	0 25.6	0 39.9	1 03.0	—	12 5.1	—	Valparaiso E.Q.
				08.1	—	11 4.7	—	
				13.3	—	9 3.8	—	
				2 02.4	—	21 6.9	—	
				07.9	—	8 3.4	—	
				10.2	4 46	7 3.0	4 20	Widening of line.
46	" 17	7 14.8	—	—	7 30	—	0 15	"
47	" 17	10 19.8	—	—	10 36	—	0 16	"
48	" 17	14 04.6	—	—	14 23	—	0 18	"
49	" 18	7 15.4	7 53.4	8 01.5	8 24	0.6 0.2	1 09	Beginning and end
50	" 19	10 18.3	10 48.3	10 58.2	11 27	0.6 0.2	1 09	faint and doubt- ful.
50a	" 25	12 08.1	—	—	12 46	—	0 38	Widening of line.
51	" 25	14 01.5	14 08.6	14 10.7	—	2.4 1.1	—	"
				12.7	—	1.5 0.7	—	"
				14.2	—	1.5 0.7	—	"
				17.8	15 50	1.1 0.5	1 48	Widening of line.
52	" 26	6 09.0	—	—	7 43	—	1 34	Tacna and Arica.
53	" 30	2 57.6	4 03.7	4 09.3	4 54	0.5 0.2	1 56	"
54	" 31	15 02.8	15 06.9	15 06.9	15 37	0.6 0.3	0 34	Widening of line.
55	Sept. 6	19 27.5	—	—	—	—	0 02	"
56	" 7	19 01.1	19 33.0	19 35.1	—	0.6 0.3	—	"
				40.4	—	0.5 0.2	—	"
				42.3	20 43	0.7 0.3	1 42	"
				46.3	—	1.5 0.7	—	"
57	" 14	16 16.6	16 25.9	16 44.5	—	1.6 0.8	—	"
				57.4	—	1.6 0.8	—	"
				17 02.6	18 57	1.9 0.7	2 40	Widening of line.
58	" 17	8 59.9	—	—	9 54	—	0 54	Transecucasia.
59	" 28	15 55.4	16 07.6	16 08.7	16 25	0.4 0.2	0 30	"
60	Oct. 2	2 05.0	2 41.8	3 11.2	4 59	2.3 1.1	2 54	"
61	" 2	14 53.4	15 23.3	15 34.1	16 25	0.4 0.2	1 32	"
62	" 6	12 49.0	12 51.5	12 52.6	13 29	0.6 0.3	0 40	"
63	" 10	1 47.6	1 51.7	1 52.6	2 03	0.5 0.3	0 15	"
64	" 10	13 04.1	13 23.8	13 25.3	—	0.6 0.4	—	"
				28.9	14 04	0.5 0.3	1 00	"
65	" 10-11	23 27.2	23 38.2	23 41.0	—	0.6 0.4	—	"
				46.5	0 13	0.5 0.3	0 45	"
66	" 17	9 56.8	—	10 39.5	10 48	0.6 0.4	0 51	"
67	" 24	14 53.1	14 57.4	15 01.6	16 05	21 10.1	1 12	"
68	Nov. 12	17 45.6	—	—	17 59	—	0 13	Widening of line.
69	" 19	7 25.1	7 32.6	7 44.0	9 33	4.2 2.6	2 08	"
70	Dec. 19	1 40.2	—	1 44.3	—	0.5 0.3	—	"
				2 23.1	2 46	0.6 0.3	1 06	Kopal E.Q.
71	" 22	18 27.0	18 37.1	18 42.2	20 15	5.0 2.7	1 48	"
72	" 23	17 45.2	18 19.8	18 24.4	18 48	1.4 0.8	1 03	"
73	" 26	6 12.7	—	—	6 58	—	0 45	Widening of line.

Register from the Royal Magnetical and Meteorological Observatory, Batavia.
Director, DR. S. FIGEE.

No.	Date	Com- mence- ment.	Duration of P.T's	Max.	Ampli- tude Double	Total Dura- tion	Remarks
1906.							
858	July	H. M. 7 56.9	M. —	H. M. —	MM. 0.5-0.2	H. M. 1 6	A series of thickenings.
859	" 3	—	—	—	0 52.3	0.5 0.2	Thickening.
860	" 3	—	—	—	4 6.5	0.5 0.2	Thickenings.
861	" 3	—	—	—	4 30.6	0.5 0.2	Thickening.
862	" 4	9 18.9	—	10 10.9	0.5 0.2	0 5	Seismic origin doubtful.
863	" 4	2 7.5	—	0 19.4	0.5 0.2	1 5	Several thickenings.
864	" 5	8 15.0	—	8 15.7	0.5 0.2	—	Two thickenings.
865	" 6	3 33.0	—	9 22.5	0.5 0.2	0 3	—
866a	" 7	7 33.8	—	7 35.1	0.6 0.2	0 5	Seismic origin doubtful.
866b	" 7	—	—	8 32.7	0.5 0.2	—	—
867	" 8	17 39.7	—	17 41.6	0.9 0.3	0 12	—
868	" 9	1 59.7	—	2 3.7	0.5 0.2	0 10	—
869a	" 9	7 56.1	—	7 56.9	0.8 0.2	0 2	Two thickenings.
869b	" 9	—	—	8 32.6	0.6 0.2	—	—
870	" 10	6 44.1	—	6 44.7	0.4 0.1	—	Thickenings only.
				7 56.1	0.5 0.2	—	—
				8 36.8	0.5 0.2	—	—
				9 31.6	0.4 0.1	—	—
				19 55.9	2.6 0.9	0 38	—
871	" 10	19 50.9	—	20 4.2	1.8 0.6	—	Thickening.
872	" 11	3 56.9	—	3 37.6	0.6 0.2	0 2	Two thickenings.
873	" 12	3 26.9	—	3 27.8	0.5 0.2	—	—
				3 51.3	0.5 0.2	—	Two thickenings.
874	" 12	7 29.5	—	7 29.9	0.4 0.1	—	Two thickenings.
				7 39.7	0.4 0.1	—	—
875a	" 13	1 33.2	—	—	0.5 0.2	2 48	A series of thickenings.
875b	" 13	5 9.9	—	5 13.4	0.6 0.2	0 4	Thickening.
876	" 14	0 52.7	—	1 13.6	1.1 0.4	0 45	Thickenings.
877	" 14	4 30.4	—	—	0.5 0.2	0 20	Thickenings.
878	" 15	8 8.4	—	—	0.5 0.2	2 0	A series of thickenings.
879	" 17	2 55.5	—	2 55.9	0.8 0.2	0 1	Thickening.
880	" 17	7 3.4	—	7 2.7	0.6 0.2	0 1	"
881	" 17	15 18.7	—	15 30.1	1.2 0.4	0 27	Several thickenings.
882	" 19	7 8.5	—	—	—	0 57	"
883	" 20	7 43.4	—	—	—	1 42	"
884	" 21	7 27.4	—	7 28.1	0.5 0.2	—	Thickenings.
885	" 21	15 14.1	—	15 16.0	1.2 0.4	0 24	Thickening.
886	" 22	0 45.9	—	0 44.8	0.5 0.2	0 2	Thickening.
887	" 23	6 19.1	—	6 19.7	0.5 0.2	0 10	Thickening.
888	" 23	7 59.6	—	6 22.5	0.5 0.2	0 52	A series of thickenings.
889	" 23	23 19.0	—	—	—	0 1	Thickening.
890	" 24	9 44.0	—	—	—	0 1	"
891	" 24	19 19.0	—	—	—	0 1	Several thickenings.
892	" 25	2 7.1	—	—	—	0 18	Amplitude measured from baseline.
893	" 25	22 4.3	—	22 29.2	2.1 7.1	0 35	Thickenings.
894	" 26	2 77.7	—	2 28.2	0.5 0.2	0 24	Thickenings.
895	" 27	27 32.5	—	2 45.5	0.6 0.2	0 2	Thickening.
896	" 27	23 26.1	—	5 38.0	0.5 0.2	0 4	Thickenings.
897	" 28	5 59.4	—	23 28.5	0.5 0.2	0 8	Thickenings.
898	" 28	9 51.7	—	5 50.1	0.7 0.2	0 2	Thickening.
899	" 28	12 58.4	—	9 52.2	0.5 0.2	0 8	Thickenings.
900a	" 29	2 52.6	—	13 2.0	0.7 0.2	0 2	Thickenings.
900b	" 29	—	—	2 54.1	0.5 0.2	0 2	Thickenings.
				3 3.9	0.4 0.1	—	—
				11 39.9	0.8 0.3	0 36	Thickening.
901	" 30	11 34.4	—	11 31.7	0.8 0.3	0 1	Thickening.
902	" 31	2 33.9	—	2 34.2	0.6 0.2	0 24	Several thickenings.
903	" 31	10 7.7	—	—	—	0 10	Thickening.
904	Aug. 1	2 52.4	—	2 53.4	1.0 0.4	0 10	Several thickenings.
905	" 8	11 42.7	—	—	—	0 7	Thickening.
906	" 9	11 7.7	—	11 9.9	0.8 0.3	0 25	Several thickenings.
907	" 9	12 27.7	—	—	—	0 2	Thickening.
908	" 11	4 9.9	—	4 10.4	0.6 0.2	0 2	Thickenings.
909	" 12	2 3.0	—	—	—	1 35	Several thickenings.
910	" 15	22 34.8	—	22 35.8	0.8 0.3	0 5	Thickening.

Register from the Royal Magnetical and Meteorological Observatory, Batavia—continued.

No.	Date	Com- mence- ment		Duration of P.T.'s		Max.		Ampli- tude Double		Total Dura- tion		Remarks
		H.	M.	H.	M.	H.	M.	MM.	"	H.	M.	
911	Aug. 17	0	23.8	± 9	2	12.1	± 16	± 5.6	3	43		P.T. lost by rolling up sheet from 9h. 31.8m. to 9h. 33.4m. Amplitude measured from baseline. Volcanic earthquake.
912	" 18	7	28.5	—	7	42.8	0.9	0.3	0	30		
913	" 19	10	23.8	—	11	12.8	0.6	0.2	1	22		Several thickenings.
914	" 20	6	27.3	—	6	28.0	0.4	0.1	0	5		
915	" 20	13	6.4	—	—	—	—	—	2	0		Several thickenings.
916	" 21	13	16.2	—	7	32.7	0.9	0.3	0	32		
917	" 21	13	9.7	—	—	—	—	—	2	43		A series of thickenings.
918	" 25	19	53.2	—	10	53.2	1.7	0.6	0	10		
919	" 25	12	22.1	—	12	34.2	1.0	0.4	0	20		
920	" 25	14	7.8	—	14	16.2	1.6	0.6	1	0		2nd amplitude measured from baseline.
921	" 26	6	7.8	—	14	27.8	0.2	2.2	1	26		Amplitude measured from baseline.
922	" 29	11	59.6	—	13	12.8	0.8	0.3	1	40		A series of thickenings.
923	" 30	3	37.3	—	4	37.2	0.8	0.3	1	9		
924	" 31	5	52.2	—	6	5.3	0.6	0.2	0	20		
925	" 31	12	32.8	—	—	—	—	—	2	34		A series of thickenings.
926	" 31	15	7.1	—	15	14.0	1.3	0.5	0	35		
No record Sept. 6th, 6h.17m., to Sept. 7th, 8h.30m.												
927	Sept. 7	19	7.4	—	19	42.3	1.4	0.6	1	2		Amplitude measured from baseline.
928	" 13	16	31.4	—	16	33.1	1.0	0.4	0	8		
929	" 14	16	12.6	—	16	25.8	11.0	4.6	2	12		Amplitude measured from baseline.
930	" 15	12	56.9	—	8	59.4	1.3	0.5	0	41		A series of thickenings.
931	" 17	8	46.1	—	9	10.9	1.3	0.5	0	24		
932	" 17	12	59.7	—	—	—	—	—	2	24		A series of thickenings.
933	" 18	7	53.6	—	7	56.1	± 2	± 0.8	0	10		
934	" 28	10	0.2	—	16	12.3	1.1	0.5	0	36		
935	Oct. 2	1	59.4	—	2	22.4	8.4	3.2	1	47		
936	" 2	11	51.4	—	2	26.2	8.8	3.3	3	47		A series of thickenings.
937	" 6	12	37.0	—	12	39.8	8.2	3.1	1	7		
938	" 8	11	27.8	—	12	57.8	0.8	0.3	1	22		A series of thickenings.
939	" 10	7	30.2	—	7	39.5	1.0	0.4	0	26		
940	" 10	12	57.3	—	7	48.1	1.0	0.4	0	26		
941	" 11	5	26.2	—	13	7.4	3.7	1.4	0	51		
942	" 15	14	0.4	—	13	13.1	4.2	1.6	0	30		
943	" 15	14	0.4	—	5	37.7	0.8	0.3	0	13		
944	" 17	9	46.8	5.0	14	6.5	1.3	0.5	0	13		
945	" 24	14	59.2	13.8	10	1.4	3.0	1.1	1	16		
946	" 26	12	25.2	—	10	4.6	2.8	1.1	1	16		
947	" 27	3	31.6	—	15	21.8	3.5	1.3	1	40		
948	" 28	15	52.6	1.0	15	25.8	4.0	1.5	0	16		
949	" 29	1	20.5	4.4	12	28.9	1.1	0.1	0	16		
950	" 31	2	9.5	—	4	4.8	0.7	0.3	0	24		
951	Nov. 2	5	42.0	—	15	53.7	± 21	± 8.0	0	33		Amplitude measured from baseline.
952	" 5	19	57.1	4.3	1	26.3	5.9	1.9	0	36		
953	" 5	23	5.3	—	2	28.8	1.2	0.3	0	30		Thickening.
954	" 10	5	19.6	—	3	48.5	0.7	0.3	0	3		
955	" 11	17	57.3	—	20	9.8	3.0	1.3	0	24		
956	" 12	18	4.1	—	23	11.5	2.5	1.1	0	56		Thickening.
957	" 14	11	4.1	—	17	59.1	5.8	2.6	0	8		Amplitude measured from baseline. Abrupt beginning.
958	" 14	17	48.1	9.8	—	—	—	—	—	—		The electric clock was stopped; direction of pendulum N.-S.; another clock—direction of pendulum E.-W.—was stopped too.
959	" 15	8	4.6	—	18	12.0	1.5	0.7	1	39		Thickening.
960	" 15	23	31.1	—	3	15.6	0.9	0.4	0	25		
961	" 18	12	39.4	—	—	—	—	—	0	5		Thickening.

Register from the Royal Magnetical and Meteorological Observatory, Batavia—continued.

No.	Date	Com- mence- ment		Duration of P.T.'s		Max.		Ampli- tude Double		Total Dura- tion		Remarks
		H.	M.	H.	M.	H.	M.	MM.	"	H.	M.	
961	Nov. 19	7	2.22	—	—	—	H. M. after 7 26.1 before 7 29.9	MM. " =	>34>15.0	2	25	Abrupt beginning.
962	" 23	0	47.1	—	—	—	—	—	—	0	5	Thickening.
963	" 27	5	36.3	—	—	5	42.1	0.8	0.5	0	16	
964	" 28	9	45.1	—	—	—	—	—	—	0	6	Thickening.
No record Dec. 2nd, 19h.4m., to Dec. 3rd, 0h.33m.												
965	Dec. 3	23	22.6	—	—	—	—	—	—	0	33	Several thickenings.
966	" 9	19	5.0	—	—	19	5.7	0.9	0.4	0	7	
967	" 13	13	2.2	—	—	13	3.8	1.0	0.5	0	10	
No record Dec. 15th, 7h.7m., to Dec. 16th, 0h.33m.												
968	" 18	21	20.5	—	—	21	50.7	1.6	0.7	1	3	
969	" 19	1	26.4	10.2	—	2	6.2	8.0	3.7	2	57	Amplitude measured from baseline.
970	" 19	18	35.2	—	—	—	—	—	—	0	13	Thickening.
971	" 19	21	32.7	—	—	—	—	—	—	0	24	Thickening.
972	" 22	18	30.9	—	—	18	55.6	5.8	2.7	1	36	Amplitude measured from baseline.
973	" 23	17	52.4	—	—	18	34.7	1.0	0.5	1	0	
974	" 26	6	17.8	—	—	6	38.4	1.8	0.8	0	46	
975	" 27	23	53.2	—	—	—	—	—	—	0	9	Thickening.
No record Dec. 29th, 22h.53m., to Dec. 31st, 2h.23m.												

Scale value: July 1906. 1mm. = 0".34.
 Aug. 1—Sept. 6, " = 0".35.
 Sept. 7—30, " = 0".42.
 October " = 0".38.
 November " = 0".44.
 December " = 0".46.

Register from Helwan Observatory, Cairo, Egypt.
Superintendent, B. F. E. KEELING.

No.	Date.	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude.	Duration.	Remarks
1906.								
292	July 14	H. M. 0 3'30	H. M. 0 10'30	H. M. 0 35	H. M. 1 11'30	MM. 2.5	H. M. 1 8	—
293	" 20	11 55	12 5	12 9'30	12 14	0.7	0 19	District tremor.
294	" 22	18 58	19 9	19 14	19 35	0.3	0 37	" " "
295	Aug. 17	0 29'30	?	1 56	4 26	off scale	3 57	Valparaiso. "
296	" 17	12 6'30	12 9	14 12	12 39'30	8	0 53	—
297	" 17	21 34	—	21 37'30	21 48	1	0 14	—
298	" 19	10 32	10 39	10 43	11 20	3.5	0 48	—
299	" 19	16 16	16 18'30	16 22	17 21	1.5	1 5	—
300	" 21	12 29'30	12 32'30	?	12 45	0.7	0 15'30	Shocks felt at Adis Abeba.
	" 25	12 4	12 6	12 7	12 53	5.0	0 49	Separate shock.
		13 7'30	13 9'30	14 1	—	11	1 54	—
		17 8	17 8'30	15 9	—	2.5	0 15	—
301	" 30	3 34'30	3 40'30	3 45'30	4 37	5.0	1 2'30	—
	Sept. 14	14 02	—	—	—	—	1 00	Distinct tremors reaching a max. of 3mm. frequently between 17'30 and 18'30.
	" 14	16 25	—	—	—	—	3 11	—
	" 20	18 33'30	—	—	—	—	0 51	Distinct tremors.
	" 21	2 38'30	—	2 52	3 3	0.7	0 24'30	" "
	" 28	15 49	—	—	—	—	1 23'30	" "
	Oct. 2	14 53	—	—	—	—	1 03	Distinct tremor.
	" 6	13 22	—	—	—	—	0 15'30	Doubtful tremors.
303	" 10	23 09	23 18	23 32'30	24 8'30	2.0	0 59'30	—
304	" 24	14 48'30	14 54'30	15 4'30	16 31'30	9.0	1 43	Preliminary tremor very small.
		2 34'30	—	—	—	—	0 10	Doubtful tremor.
305	Nov. 14	19 3'30	?	19 51'30	20 15'30	0.4	1 12	—
306	" 19	7 30'30	7 39'30	8 13'30	10 29	2.0	2 58'30	—
		11 44'30	—	8 30'30	—	2.0	0 1	—
	" 28	9 27'30	—	10 12'30	10 30	0.9	1 2'30	Partly lost lamp being cleaned.
308	Dec. 19	22 36	?	23 6'30	23 31	0.5	0 55	—
309	" 19	1 39'30	—	3 21	4 14	2.0	2 34'30	Apparently short period vibrations throughout.
310	" 23	18 29'30	18 35	18 39'30	21 54	2.2	3 25'30	—
311	" 23	17 45'30	?	18 33'30	20 27	1.3	2 41'30	—
312	" 26	6 13	6 18	7 01	—	2.2	—	End lost in changing spool.
313	" 26	13 43	13 43	13 43'30	13 47'30	0.5	0 4'30	Felt at Nag-Ilanadi, Luxor, Assiut, Minieh, &c.
Slight shock felt by man lying on sofa in Cairo before 2 o'clock.								
314	" 27	6 51	6 51	6 53'30	6 54	—	0 3	Thickening.

Note.—On the 26th at about 6.50 G.M.T. a shock was felt at Luxor, Sohag, and other places in the neighbourhood. Seismogram masked by the distant earthquake at the same time.

Register from Magnetic Observatory, Pilar, Cordoba.
Director, W. G. DAVIS. Observer, A. DE ROTHE.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906.								
193	Jan. 2	H. M. 19 52.4	H. M.	H. M. 19 56.1	H. M. 20 15.4	MM. 0.2	H. M. 0 23.0	App. true Eqke. movement, very slight.
194	" 7	2 14.9	—	2 15.9	—	0.1	0 2.5	> very slight, time uncertain.
195	" 7	—	—	2 52.9	—	0.6	0 2.0	>
198	" 15	3 48.4	—	—	—	—	0 2.5	Slight D. of 0.2mm. to E.
202	" 21	12 51.2	—	12 52.5	12 58.7	0.4	0 7.5	Small shock, the max. >
203	" 21	14 08.8	—	14 15.4	16 33.8	0.4	2 25.0	True Eqke. movt., well defined.
204	" 23	—	—	23 14.9	—	0.2	0 0.3	Very slight bead-like shock.
205	" 24	7 45.0	—	—	8 45.0	—	1 00.0	T. with thickenings, very slight.
206	" 25	1 15.4	1 25.6	1 34.7	2 25.6	0.2	1 10.2	True Eqke. movt., very slight.
207	" 27	10 38.9	10 53.0	11 02.2	12 00.2	0.2	1 21.8	True Eqke. movt., very slight.
208	" 29	16 32.7	16 46.5	—	—	—	—	2 slight thickenings.
209	" 29	19 55.6	—	19 55.6	—	1.0	0 2.9	> doubtful.
210	" 30	22 18.4	—	—	22 20.5	0.2	0 2.1	Small D. to E. of 0.2mm. during 2 in.
211	" 30	22 49.5	—	—	—	0.2	0 4.0	> slight.
212	" 31	14 26.1	—	14 36.3	15 08.3	0.4	0 4	True Eqke. movt., well defined.
213	" 31	—	19 43.1	39.4	20 21.3	0.6	4 18.4	True Eqke. movt., amplitude larger than paper.
214	" 31	21 34.8	21 45.4	21 48.4	22 08.5	0.9	33.7	(Columbia.) True Eqke. movt.
215	Feb. 1	2 40.9	2 50.5	2 51.5	3 51.5	0.5	1 10.5	True Eqke. movt., max. followed by series of slight cigar-shaped shocks.
216	" 1	6 51.5	—	6 55.6	7 30.9	0.2	0 48.4	True Eqke. movt., very slight.
217	" 1	9 24.5	—	9 42.9	10 01.3	0.1	0 36.8	True Eqke. movt., very slight.
218	" 1	23 33.7	—	23 49.5	24 30.9	0.7	1 06.2	True Eqke. movt.
219	" 2	17 06.9	—	18 18.5	18 46.4	0.5	1 30.5	True Eqke. movt., well defined.
220	" 2	19 15.4	—	19 19.5	19 45.4	0.5	30.0	True Eqke. movt., well defined.
221	" 3	0 51.2	—	—	1 04.3	0.2	0 33.1	App. true Eqke. movt., series of small shocks.
222	" 3	4 11.9	—	—	4 31.7	0.1	0 19.8	App. true Eqke. movement, mere thickening.
223	" 3	21 07.8	21 09.9	21 13.5	21 43.0	0.2	0 35.2	App. true Eqke. movement, very slight.
225	" 5	5 24.6	5 30.7	6 46.4	—	0.1	—	3 small thickenings.
226	" 6	1 54.6	—	1 38.7	2 28.6	0.5	0 34.0	App. true Eqke. movt., slight.
227	" 7	—	—	13 57.0	14 24.6	2.5	0 27.0	>
232	" 16	17 52.0	—	18 12.0	18 52.3	0.2	1 00.3	True Eqke. movt., very slight.
233	" 19	2 20.5	—	2 50.7	4 47.1	0.4	2 26.0	True Eqke. movement, well defined (West Indies).
236	Mar. 3	8 50.6	—	9 03.8	10 10.5	0.5	1 11.9	True Eqke. movt., photo indistinct.

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
237	Mar. 3	H. M. 18 09.9	H. M. 18 12.7	H. M. 18 13.7	H. M. 18 25.6	MM. 0.2	H. M. 0 10.7	True Eqke. movt., very slight.
240	" 9	20 14.4	20 27.6	—	—	0.1	—	2 thickenings of duration 1.30 to 6.30m.
242	" 10	13 30.2	—	—	—	0.1	0 2.1	App. true Eqke. movement, very slight.
243	" 10	17 25.1	—	—	18 21.0	0.2	0 55.9	Series of small cigar shaped movts., 7h. 5m.
244	" 11	3 39.9	—	—	4 15.4	0.2	0 35.5	Series of small cigar shaped movts., 7h. 5m.
249	" 27	7 35.3	—	5 13.5 23.5	6 37.3	0.5	2 02.0	True Eqke. movt., well defined.
251	" 28	19 06.0	—	19 12.8 28.7	20 15.0	0.2	1 09.0	Small cigar shaped shocks, end un- certain.
253	" 29	21 54.5	21 57.1	22 10.6 19.4	22 56.1	1.0	1 01.6	True Eqke. movt., —
256	" 31	15 55.6	—	15 37.1	16 00.6	0.6	0 5.9	App. true Eqke. movement.
258	Apr. 2	15 59.6	—	16 14.9	16 33.7	0.5	0 37.1	App. true Eqke. movt., slight.
259	" 3	12 18.4	—	—	—	0.4	0 3.0	>
260	" 3	15 31.0	—	—	—	0.1	0 1.0	> Very slight.
261	" 4	10 40.8	—	—	—	0.2	0 3.0	>
262	" 5	21 12.8	—	21 26.6	22 13.9	0.4	1 01.1	App. true Eqke. movt.
266	" 10	21 12.5	—	21 43.9 22 07.2	23 00.6	0.3	1 48.1	True Eqke. movt.
268	" 14	1 49.4	—	1 51.0 55.7	—	0.2	—	2 small cigar-shaped movts., app. 3m. dur. each.
269	" 14	4 21.5	—	4 27.8 35.8	5 34.7	0.2	1 13.2	Series of cigar-shaped movts., app. 3m. dur. each.
270	" 14	14 31.4	—	—	—	0.5	0 6.0	>
272	" 18	13 25.6	—	13 36.8	14 45.0	0.2	1 19.4	True Eqke. movt., slight, San Fran- cisco.
274	" 23	9 15.0	—	—	13 15.0	—	4 0.0	T. & C.I.M.
275	" 23	15 15.0	—	—	15 15.0	—	3 0.0	Series of thicken- ings of line.
278	" 29	16 15.0	—	—	21 00.0	0.1	4 0.0	Series of slight shocks, mere thickening.
279	May 2	—	—	11 48.6	—	0.2	0 3.0	>
287	" 16	12 15.0	—	—	15 45.0	—	3 30.0	Slight C.I.M.
290	" 21	13 15.0	—	—	19 45.0	—	6 30.0	Slight thickening, doubtful.
295	June 1	4 55.2	5 49.1	6 02.7 06.8	7 15.0	0.8	2 20.2	True Eqke. movt., time uncertain.
301	" 18	11 45.0	—	11 47.6	—	1.5	0 12.0	App. true Eqke. movt., photo in- distinct.
302	" 19	11 48.3	—	—	—	0.6	0 5.0	>
303	" 20	2 41.4	—	—	3 40.8	0.1	0 59.4	App. true Eqke. movement, very slight.
306	" 20	18 03.8	—	—	—	0.1	0 3.0	Thickening
307	" 21	11 59.6	—	—	—	0.5	0 1.0	Small shock, doubt- ful.
308	" 22	3 36.3	—	—	—	0.1	0 6.0	Very slight but app. true Eqke. movt.
309	" 22	8 02.7	—	8 10.4	8 27.1	0.2	0 24.4	Very slight but app. true Eqke. movt.

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
310	June 22	H. M. 21 45.4	H. M. —	H. M. 23 15.4	H. M. 23 32.2	MM. 0.2	H. M. 1 40.8	T. with thicken- ing and slight shocks.
311	" 23	16 15.0	—	—	18 45.0	—	2 30.0	T. with thicken- ing and slight shocks.
312	" 24	7 16.4	—	7 27.6 35.7	7 56.2	0.2	0 39.8	Series of small beadlike shocks, true Earthquake movement.
314	" 28	19 28.6	—	—	—	0.1	0 1.0	Very slight bead- like shock.
315	" 30	16 41.8	—	16 42.8	16 54.4	2.0	0 12.6	>
317	July 6	3 15.0	—	3 15.0	3 45.0	0.1	2 30.0	Series of thicken- ings, very slight.
318	" 8	—	—	22 02.7	—	0.1	0 1.0	Small beadlike shock.
322	" 13	23 58.6	0 08.8	0 12.3 19.4	0 59.6	1.2	0 01.0	True Eqke. movt.
325	" 20	11 42.4	11 43.0	11 47.9	12 33.7	2.0	0 51.3	True Eqke. movt., beginning un- certain.
331	Aug. 1	13 15.0	—	—	0 45.0	—	11 30.0	Long series of thicken- ing, strong, at 11h. — 12h. — and 16h. — 20h. movt. felt Mendoza.
337	" 15	19 38.3	—	19 46.4 50.0	20 11.8	0.2	0 26.5	True Eqke. movt., small cigar shaped shocks.
338	" 17	9 31.7	—	0 41.9 1 49.7 3 06.4	—	—	—	True Eqke. movt., Chile, destruc- tion Valparaiso, at 1st. max. D. to W. 6mm.
339	" 17	5 58.3	6 00.3	6 01.3 16.9	—	8	—	2
340	" 17	6 49.3	6 51.1	6 53.0	—	6.0	—	True Earthquake movement.
341	" 17	8 50.7	8 32.5	8 38.8	—	1.5	—	True Eqke. movt.
342	" 17	8 59.3	9 01.3	9 02.4	—	9.0	—	The instrument has hardly been at complete rest since the 14th.
343	" 17	11 43.5	11 45.0	11 46.0	—	2.0	—	—
344	" 17	12 52.5	12 54.6	12 55.1	—	12.0	—	—
345	" 17	17 03.8	17 04.8	17 06.6	—	0.5	0 8.0	All these shocks follow on, so that it is diffi- cult to separate the movements.
346	" 17	20 18.9	—	20 21.5 28.6	21 00.0	5.0	—	3.0
347	" 17	21 30.7	—	21 31.2	—	0.5	0 2.0	>
348	" 17	21 52.0	—	21 53.0	23 00.0	1.5	0 5.0	>
349	" 18	0 47.5	—	0 49.6	—	5.0	0 2.0	Abrupt.
350	" 18	2 07.5	—	2 09.9	—	1.8	0 1.4	"
351	" 18	3 39.3	—	—	—	0.1	0 3.0	Thickening.
352	" 18	3 58.3	—	—	—	0.2	0 3.0	Carrot-shaped.
353	" 18	4 25.6	—	—	—	0.2	0 5.0	"
354	" 18	14 28.4	—	—	—	0.2	0 5.0	"
355	" 18	15 18.4	—	14 29.7	—	0.5	0 6.0	Abrupt.
356	" 18	17 56.8	—	17 38.1	—	0.6	0 9.0	"
357	" 18	20 33.2	—	—	—	0.1	0 4.0	Cigar-shaped.
358	" 19	6 39.9	—	6 40.9	—	0.6	0 11.0	>
359	" 19	8 58.9	—	—	—	0.1	0 4.0	Thickening.
360	" 19	9 39.7	—	9 33.3	12 45.0	—	3 14.3	True Earthquake movement, fin- ishing with thicken- ing from 11h. 12h. 45m.
361	" 19	14 43.0	—	14 45.0	—	0.4	0 7.0	True Earthquake movement, fin- ishing with thicken- ing from 11h. 12h. 45m.

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
362	Aug. 19	15 33.6	—	15 41.9	17 9 2.0	8.5	—	True Eqke. movt., finishing with thickening from 11h.—12h.45m.
363	" 19	17 36.8	—	16 22.0	17 37.9	0.5 2.0 0.7	0 8.0	True Eqke. movt., finishing with thickening from 11h.—12h.45m.
364	" 19	21 42.9	—	21 44.0	—	0.4	0 7.0	True Eqke. movt., finishing with thickening from 11h.—12h.45m.
365	" 19	22 28.1	—	—	—	0.1	0 7.0	Thickening, very slight.
366	" 20	11 18.4	—	11 20.0	—	0.2	0 6.0	At 8 o'clock com. series of thickenings finishing with ind. shocks.
367	" 20	—	—	19 39.9	—	0.2	0 1.0	Small beadlike shock.
368	" 21	5 41.7	—	—	—	0.1	0 4.0	Mere thickening of line.
369	" 21	11 23.0	11 24.6	11 25.6	14 00.0	5.0	2 38.0	True Eqke. movt.
370	" 21	14 25.6	—	14 26.7	—	0.4	0 7.0	True Eqke. movt.
371	" 21	—	—	14 37.8	—	0.5	0 5.0	Between these separate shocks a series of thickenings up to 21h. 45m., when movt. changed to C.I.M. up to 9h.45m. on 22nd.
372	" 21	20 22.4	20 25.6	20 35.1	20 52.1	5.0	0 29.7	Thickening with small beadlike shock, dur. 1m.
373	" 22	10 45.4	—	11 10.3	11 46.4	0.2	1 01.9	Slight thickening with mere ind.
374	" 22	13 10.4	—	—	15 15.0	—	2 04.6	Slight thickening with mere ind.
375	" 22	19 15.0	—	20 44.0	20 51.1	0.5	1 06.1	Slight thickening with mere ind.
376	" 23	—	—	7 13.4	—	0.2	0 6.0	Very slight.
377	" 23	15 04.9	—	15 06.4	—	0.5	0 10.0	Max. abrupt.
378	" 23	15 32.5	—	—	—	0.2	0 1.0	Small beadlike.
379	" 23	15 51.1	—	—	—	0.5	0 7.0	Max. abrupt.
380	" 23	22 20.2	—	—	—	0.1	0 3.5	Mere thickening.
381	" 24	2 12.4	—	2 20.7	2 35.0	0.1	0 22.6	Thickening with small beadlike shock, dur. 1m.
382	" 24	3 07.2	—	3 10.3	—	1.0	0 8.0	True Eqke. movt.
383	" 24	5 43.0	—	5 45.0	—	0.2	0 8.0	Small carrot-shaped.
384	" 25	12 47.9	—	—	13 15.0	0.1	0 27.1	Series of small thickenings.
385	" 25	14 10.8	14 42.2	14 53.4	16 18.4	0.7	2 07.6	True Eqke. movt.
386	" 26	6 24.6	7 13.4	7 26.2	9 15.0	0.5	2 50.4	True Eqke. movt., com. with thickening of line.
387	" 26	20 16.4	—	20 23.4	20 46.0	0.2	0 29.6	True Eqke. movt., slight.
388	" 27	18 29.7	—	18 32.8	18 43.5	1.0	0 13.8	True Eqke. movt., abrupt.
389	" 28	16 01.7	—	—	17 15.0	0.1	1 13.7	Series of thickenings.
390	" 30	2 41.8	2 44.4	2 46.0	5 00.0	—	2 18.2	True Eqke. movt. (Tacna & Arica)
391	" 30	6 46.0	—	51.6	—	4.5	0 7.2	Thickening.
392	" 30	15 15.0	—	—	6 53.2	0.1	18 45.0	C.I.M. slight, telegraph interrupted, San Juan.
393	Sept. 1	17 01.8	—	—	—	0.2	0 6.0	> very slight.
394	" 2	2 43.0	—	—	—	0.3	0 5.0	> " "

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
396	Sept. 4	11 22.5	—	—	—	0.1	0 4.0	Cigarshaped slight
398	" 6	4 26.6	—	4 28.2	—	0.3	0 5.0	App. true Eqke. movt.
399	" 6	7 00.0	—	—	—	—	—	Commences bending of line to W. changing E. at 9h.45m. with max. bending E. of 4mm. at 14h. Line settle down with change of paper at 16h.; no tremors.
400	" 6	18 00.0	—	—	—	4 00.0	4 00.0	Series of thickenings.
401	" 7	9 23.6	—	9 24.6	—	0.3	0 6.0	App. true Eqke. movt.
402	" 7	—	—	11 05.9	—	0.1	0 4.0	> very slight.
403	" 7	19 15.0	19 39.9	19 41.4	22 00.0	12.0	2 00.0	True Eqke. movt.
404	" 8	16 00.0	—	—	—	2.3	13 00.0	Bending of line W., returning at 5h., max. deviation 3mm. at 12h.
405	" 9	—	—	3 32.7	—	0.6	0 5.0	>.
407	" 11	1 05.1	—	1 07.5	—	0.5	0 6.0	True Eqke. movt.
408	" 11	18 41.9	—	—	—	0.2	0 6.0	True Eqke. movt., carrotshaped very slight.
409	" 13	8 05.4	8 08.3	8 16.4	9 00.0	0.6	0 54.6	True Eqke. movt.
410	" 13	10 02.1	—	10 03.1	10 45.0	1.6	0 42.6	True Eqke. movt., felt at Rioja, Chicoteo, Timogasta, Cordillera
411	" 14	—	18 56.0	—	20 00.0	0.2	1 04.0	Heavy thick, beginning lost setting paper.
412	" 15	16 16.9	—	16 17.7	—	0.7	0 5.0	True Eqke. movt.
414	" 17	9 06.0	—	—	10 58.0	0.2	1 58.0	True Eqke. movt., mere thickening.
415	" 20	17 32.9	17 33.8	17 34.5	19 45.0	6.0	2 13.0	True Eqke. movt.
417	" 21	1 33.5	1 38.9	1 40.9	16 50.0	0.9	15 16.5	True Eqke. movt. followed by thickening.
418	" 21	11 15.0	—	16 21.0	21 15.0	0.2	9 30.0	Long series of thickenings with two heavy inds. as max., duration 2 and 3m.
419	" 23	—	—	6 01.2	—	0.2	0 1.0	Small beadlike, felt Rio IV., San Luis.
420	" 23	—	—	8 08.4	—	0.2	0 1.0	Small beadlike.
423	" 28	15 29.7	15 33.8	15 39.4	18 45.00	1.0	3 15.3	True Eqke. movt., Peru
427	" 30	11 52.3	11 55.9	11 57.6	12 45.0	0.8	0 52.5	True Eqke. movt.
428	Oct. 2	2 13.9	3 00.6	3 12.9	5 00.0	1.0	2 46.1	True Eqke. movt., preceded and followed by T.
429	" 2	14 35.9	14 37.9	14 48.6	21 00.0	2.3	6 24.1	True Eqke. movt., preceded and followed by T.
430	" 2	—	—	21 18.4	—	0.1	0 1.0	Small beadlike shock, Higuoras, San Carlow.
431	" 3	0 11.3	0 17.9	0 20.9	1 01.4	0.2	0 51.1	True Eqke. movt.
434	" 10	13 45.0	—	—	20 00.0	—	6 15.0	Thickening, sinks in line.
435	" 10	22 51.0	22 57.6	23 04.3	24 00.0	0.2	1 09.0	True Eqke. movt., slight.
436	" 13	16 00.0	—	2 46.0	4 00.0	0.2	12 00.0	Thickening, kinks, the max. carrot-shaped, dur. 6m. Heavy thickenings strong given as max.
438	" 15	14 16.4	—	14 25.1	15 45.0	0.4	1 29.0	

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Com- mence- ment	L.W. Com- mence-	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
436	Oct. 17	H. M. 18 08-0	H. M. —	H. M. 11 08-0	H. M. 11 08-0	MM. 0-0	0 19-4	Series of thicken- ings.
441	" 18	11 43-0	—	—	11 08-0	—	10 33-9	Series of thicken- ings.
442	" 22	9 54-0	—	8 53-9	10 08-7	0-1	8 0-0	True Eqke. movt., slight.
443	" 24	10 54-7	—	18 30-8	10 33-4	0-4	8 5-1	True Eqke. movt., line uncertain.
444	" 26	15 33-9	10 57-1	16 04-0	17 31-7	0-5	2 12-0	True Eqke. movt., Bolivia (Cochi- bambas.)
445	" 26	—	—	13 31-4	—	0-1	3 1-0	Cerebellated very slight.
446	" 24	23 40-0	—	—	3 45-0	—	3 04-1	Series of thicken- ings.
448	" 26	13 40-0	—	—	14 04-4	—	0 18-4	D. to East 8 lines.
449	" 28	16 27-1	—	—	22 00-0	0-0	5 52-0	Slight D. and series of thicken- ings.
450	" 29	—	2 30-4	2 18-4	2 10-0	0-3	1 08-0	True Eqke. movt., line uncertain.
451	Nov. 2	8 30-6	8 30-0	0 37-0	8 30-8	0-0	3 11-2	True Eqke. movt., heavy thickening.
452	" 4	8 17-0	8 30-0	8 45-0	8 45-0	0-2	39 08-0	Thickening and slight irregular- ities.
453	" 18	13 15-0	—	—	23 15-0	—	—	—
454	" 15	18 42-0	—	—	—	—	28 08-4	Oscillations with slight thicken- ings, dragged between 11h. Day on 14th and thickening with slight thinning.
455	" 14	—	18 31-7	18 42-9	28 42-0	0-5	0-0	True Eqke. movt., slight cerebellated slight.
456	" 16	—	—	11 23-8	—	0-2	0 5-0	—
457	" 17	—	—	10 22-8	—	0-4	0 5-0	—
458	" 17	17 41-8	17 42-8	17 43-7	17 53-0	1-0	6 11-2	True Eqke. movt., bending of line to E. commencing 12h. Rem. so slight at 9h. max. day 1-line fall at 10h. Sable, Santiago.
459	" 19	7 38-0	—	8 22-2	11 13-8	0-3	2 30-1	True Eqke. movt., beginning un- certain.
461	" 20	—	—	10 03-8	—	0-0	0 7-0	—
462	" 21	—	—	10 15-0	—	0-4	0 0-0	—
463	" 20	9 01-8	9 06-8	9 08-8	11 08-2	2-0	2 00-4	True Eqke. movt.
465	Dec. 2	13 08-0	23 18-4	23 20-0	24 43-8	0-7	1 30-7	True Eqke. movt., line uncertain. Hingston.
467	" 7	—	8 42-7	—	25-8	0-6	0 5-0	—
468	" 7	10 13-4	—	—	21 43-8	—	2 38-0	Slight bending of line.
470	" 18	—	10 08-8	—	—	0-0	0 8-0	—
475	" 18	20 53-8	20 58-7	20 00-8	21 43-8	0-4	1 53-4	App. true Eqke. movt.
476	" 17	—	35 53-6	—	—	0-3	0 8-0	—
477	" 18	21 18-3	—	21 30-7	22 23-6	0-9	1 07-1	True Eqke. movt.
478	" 19	1 52-2	1 38-9	1 00-8	4 50-3	2-9	2 03-0	True Eqke. movt.
479	" 20	0 53-8	—	8 30-8	—	2-8	0 8-0	True Eqke. movt., very slight.
480	" 22	10 23-4	10 44-0	18 54-0	21 35-0	0-3	1 28-6	True Eqke. movt., Turkistan

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Com- mence- ment	L.W. Com- mence-	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
481	Dec. 23	H. M. 17 18-9	H. M. 17 21-5	H. M. 18 30-3	H. M. 20 00-0	MM. 0-8	H. M. 2 41-1	True Eqke. movt.
482	" 24	0 33-8	0 34-8	53-8	—	0-0	0 16-0	True Eqke. movt.
483	" 25	20 35-8	—	20 51-7	21 39-9	0-2	1 04-1	True Eqke. movt., very slight.

Period of oscillations = 17 seconds.
Sensibility: 1mm. deflection of the boom = 0°56 of arc.

Register from the Observatory (Syrian Protestant College), Beirut, Syria.
Observer, ALFRED H. JOY, M.A.

No.	Date	Com- mence- ment	L.W. Com- mence-	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
1906.								
196	July 6	H. M. 0 51-0	H. M. —	H. M. 0 56-5	H. M. 1 7-0	MM. 0-7	H. M. 0 16-0	—
197	" 14	0 35-5	—	0 32-5	1 24-5	0-6	1 19-0	—
198	" 20	11 40-5	—	12 5-5	12 25-5	0-2	0 45-0	—
199	" 22	18 52-5	—	19 13-5	19 34-5	0-0	0 42-0	—
200	Aug. 1-2	23 55-0	—	0 8-0	0 23-0	0-5	0 28-0	—
201	" 17	0 29-5	1 0-5	1 7-0	4 27-5	11-0	3 58-0	Valparaiso.
202	" 17	10 18-0	—	—	10 37-0	—	0 19-0	Thickening.
203	" 17	14 3-5	—	—	14 41-5	—	0 38-0	—
204	" 18	8 18-5	—	—	8 15-9	—	0 27-0	—
205	" 19	10 88-0	—	10 45-5	11 22-5	0-6	0 44-5	—
206	" 25	12 2-5	—	12 7-5	12 43-5	1-0	0 41-0	—
207	" 25	13 51-5	—	14 1-0	15 1-5	2-6	1 10-0	—
208	" 25	15 7-0	—	15 9-0	16 0-0	1-6	0 53-0	—
209	" 25	17 7-0	—	17 8-0	17 23-5	0-5	0 16-5	—
210	" 25	6 19-5	—	6 30-0	8 27-5	1-0	2 8-0	—
211	" 26	9 28-5	—	9 29-5	9 58-5	0-4	0 25-0	—
212	" 28	6 27-5	—	—	6 37-5	—	0 10-0	Thickening.
213	" 30	2 59-5	—	3 51-5	5 18-5	1-8	2 19-0	—
214	" 31	15 12-5	—	15 24-0	15 41-5	0-3	0 29-0	—
215	Sept. 7	19 8-5	—	19 44-0	21 51-0	0-7	2 42-5	—
216	" 13	8 47-5	—	8 56-0	9 20-0	0-5	0 32-5	—
217	" 14	14 6-0	—	14 20-0	15 7-5	0-7	1 1-8	—
218	" 14	16 24-5	—	17 46-0	19 24-0	1-6	3 9-5	Disturbed by entry
219	" 17	5 22-0	—	—	5 35-0	—	0 13-0	Thickening.
220	" 17	10 32-0	—	—	11 6-0	—	0 34-0	—
221	" 20	18 41-0	—	18 56-0	19 34-0	0-4	0 53-0	—
222	" 21	2 24-0	—	2 43-0	3 18-0	0-3	0 44-0	—
223	" 21	16 40-5	—	—	16 53-0	—	0 12-5	Thickening.
224	" 28	7 35-0	—	—	7 40-0	—	0 5-0	—
225	" 28	15 48-5	—	15 43-5	17 11-0	0-5	1 22-5	—
226	Oct. 1	2 19-0	—	—	2 30-0	—	0 11-0	Thickening.
227	" 2	2 12-0	—	3 15-5	4 58-0	0-6	2 46-0	—
228	" 3	14 53-5	—	15 5-0	15 57-0	1-6	1 3-5	—
229	" 6	13 19-0	—	—	13 44-0	—	0 25-0	Thickening.
230	" 10-11	23 6-0	—	22 35-0	0 6-0	1-5	1 0-0	—
231	" 17	9 50-0	—	10 32-0	11 12-5	0-3	1 13-5	—
232	" 20	16 15-0	—	16 15-5	16 22-0	0-8	0 7-0	—
233	" 24	14 47-5	14 53-0	15 2-5	16 32-0	5-3	1 44-5	Thickening.
234	" 29	1 29-5	—	—	1 44-5	—	0 5-0	—
235	" 31	2 37-0	—	2 33-0	2 33-0	0-4	0 26-0	—
236	Nov. 4	18 33-5	—	—	18 37-5	—	0 4-0	Thickening.
237	" 7	1 2-5	—	—	1 8-0	—	0 5-0	—
238	" 7	2 29-0	—	—	2 37-5	—	0 8-5	—

Register from the Observatory (Syrian Protestant College), Beirut, Syria—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
233	Nov. 12	17 57.0	---	17 58.5	18 4.5	0.3	0 7.5	---
240	" 14	16 18.0	---	19 7.5	20 0.0	0.3	3 42.0	---
241	" 19	7 34.0	7 44.0	8 12.5	10 20.0	2.7	2 52.0	Thickening.
242	" 23	9 32.0	---	---	19 38.5	---	1 6.5	---
243	Dec. 5	23 24.0	---	---	23 53.5	---	0 29.5	---
244	" 15	19 28.5	---	---	19 32.0	---	0 3.5	---
245	" 18	21 34.0	---	---	21 35.5	---	0 1.5	---
246	" 18	22 50.5	---	---	23 20.5	---	0 30.0	---
247	" 19	1 34.5	---	3 27.0	4 23.0	0.8	2 48.5	---
248	" 22	18 23.0	18 38.5	18 48.5	29 40.0	2.5	2 11.0	---
249	" 23	8 0.0	---	---	8 20.0	---	0 20.0	---
250	" 23	17 36.5	---	18 21.0	20 33.0	1.2	2 56.5	---
251	" 26	6 11.0	---	7 7.5	7 49.5	0.5	1 35.5	---
252	" 26	13 47.5	---	13 48.5	13 52.0	0.4	0 4.5	---

Period of pendulum 18 seconds. 1mm. = 0°38.

Register from Baltimore, Md., U.S.A.
Director, HARRY FIELDING REID.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
80	May 17	13 11.1	---	13 22.4	13 41.0	0.4	---	Beginning sharp.
84	June 1	4 33.1	5 35.8	5 43.9	8 01.0	3.0	---	E.Q. well marked.
85	" 2	14 24.1	---	---	14 38.5	0.1	---	Swelling.
86	" 3	15 32.6	---	---	15 40.4	0.7	---	---
88	" 7	3 3.7	---	3 5.0	3 26.0	0.2	---	Swelling.
89	" 26	12 29.1	12 31.8	12 34.2	12 48.0	0.8	---	Earthquake.
90	July 8	23 10.0	---	23 16.0	23 41.0	0.5	---	Beads.
91	" 11	0 17.6	---	---	0 27.0	0.1	---	Swelling.
92	" 13-14	23 58.0	---	0 8.0	0 27.0	0.6	---	---
93	" 20	11 34.3	---	11 44.4	12 01.0	0.4	---	Beads.
94	" 22	19 40.7	---	---	20 11.0	0.2	---	Swelling.
95	Aug. 1	0 16.4	---	---	17 4.0	0.2	---	Probably artificial
96	" 1-2	23 57.0	0 2.3	0 8.0	0 16.3	0.3	---	Swelling E.Q.
98	" 9	12 7.2	---	---	12 17.0	0.1	---	---
103	" 24	2 12.3	2 14.5	2 17.4	2 34.0	0.2	---	E.Q.
104	" 25	14 10.6	---	14 53.0	15 38.0	0.6	---	" Beads.
105	" 26	6 40.2	7 8.0	7 19.3	8 26.0	1.0	---	" Swelling P.P.
106	" 28	5 27.8	5 34.2	5 35.0	6 4.0	1.8	---	E.Q.
107	" 30	2 48.3	---	3 15.4	4 43.0	1.5	---	---
108	Sept. 7	19 23.4	(?) 19 47.3	20 22.0	21 18.0	1.6	---	---
109	" 11	14 2.0	---	14 4.0	14 9.0	0.3	---	Simple swelling.
110	" 14	16 27.3	---	17 21.0	20 1.0	4.9	---	Strong E.Q.
111	" 20	15 11.0	---	---	18 25.0	0.2	---	Small swellings.
112	" 21	2 8.0	---	---	2 13.0	0.3	---	Swelling.
113	" 28	15 39.0	15 45.8	15 46.8	16 25.0	2.4	---	Earthquake.
114	Oct. 2	2 14.2	---	2 16.7	2 18.7	0.4	---	Swelling.
115	" 2	2 24.1	3 04.0	3 16.0	4 43.0	1.7	---	Earthquake.
116	" 10	7 0.0	---	---	8 0.0	0.2	---	Beads, time inac- curate.
117	" 10	14 9.5	---	---	14 29.5	0.2	---	Swelling.
118	" 11	6 06.0	---	6 20.8	6 52.0	0.6	---	---

Register from Baltimore, Md., U.S.A.—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
121	Oct. 29	20 32.5	---	---	20 37.5	0.3	---	Swelling.
122	" 31	2 36.3	---	---	2 56.0	0.5	---	Beads.
124	Nov. 14	---	---	18 44.5	---	1.7	---	Earthquake.
125	" 25	11 44.5	---	---	11 55.0	0.3	---	---
129	" 28	9 21.0	---	---	9 55.0	0.5	---	Beads.
131	Dec. 2	6 0.0	---	3d. 6h.	---	0.5	---	---
132	" 3	23 4.0	23 8.0	23 11.0	24 5.0	2.0	---	Earthquake.
139	" 18	21 53.3	21 58.5	22 01.5	22 49.0	0.6	---	Earthquake.
140	" 19	1 40.8	2 07.0	2 13.0	---	3.0	---	Followed by air current.
142	" 21	17 16.3	---	---	17 31.0	0.2	---	Beads.
143	" 22	18 45.5	19 16.3	19 24.3	21 9.0	6.5	---	E.Q. in Russian Turkistan.
144	" 23	4 0.4	---	---	---	---	---	A.C. or other dis- turbances.
145	" 24	---	---	---	12 0.0	0.5	---	---
145	" 23	0 7.5	---	---	8 3.0	1.0	---	Beads.
146	" 23	16 53.4	---	17 53.0	---	9.0	---	Earthquake.
148	" 26	6 11.0	---	---	7 0.0	1.5	---	Prob. Earthquake.

No records.—May 3rd, 6h. to 7th, 21.7h.
May 14th, 20.8h. to 22.2h.
May 19th, 20.4h. to 21st, 21.6h.
May 30th, 18.3h. to 31st, 2.1h.
May 31st, 17.6h. to 20.0h.
June 4th, 21.4h. to 5th, 2.2h.
June 5th, 15.6h. to 18.1h.
June 6th, 0h. to 16.2h.
June 8th, 0.2h. to 14.3h.
June 8th, 22.3h. to 9th, 15.3h.
June 11th, 6h. to 13h.

June 11th, 19.7h. to 12th, 18h.
June 15th, 0h. to 25th, 2.6h.
June 27th, 17h. to July 2nd, 21.4h.
August 13th, 20.8h. to 20th, 20.6h.
September 24th, 19h. to 21.5h.
October 7th, 12h. to 8th, 21.7h.
October 15th, 1.6h. to 14.2h.
October 23rd, 16h. to 27th, 11h.
November 17th, 8h. to 19th, 20.8h.
December 27th, 14.6h. to 20.5h.

Register from Irkutsk Magnetical and Meteorological Observatory.
Director, A. V. VOZNESENSKY.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
871	July 6	16 27.3	16 27.5	16 40.1	19 57	>17.0	---	---
872	" 6	22 36.8	---	22 40.4	23 10	0.5	0 33	---
874	" 8	22 28.4	---	21 31.8	22 40	0.2	0 12	---
875	" 9	9 41.6	9 42.2	9 42.3	---	>17.0	1 18	---
876	" 9	---	10 50.6	11 01.4	11 03	4.8	0 03	---
877	" 9	---	11 22.7	11 22.8	11 28	4.8	0 05	---
878	" 9	11 32.0	---	---	---	---	0 05	---
879	" 9	---	---	11 37.4	11 39	1.0	0 02	---
881	" 9	13 01.3	---	13 03.0	14 09	0.6	1 08	---
886	" 9	15 12.4	---	15 12.5	15 23	0.5	0 11	---
887	" 9	16 37.0	---	16 33.0	16 44	0.1	0 07	---
888	" 9	17 20.7	---	17 20.9	17 27	0.1	0 06	---
889	" 9	17 40.7	---	17 40.9	17 48	0.2	0 07	---
892	" 9	19 41.9	---	19 42.5	19 56	0.1	0 14	---
900	" 10	8 24.1	---	---	3 33	---	0 09	---
903	" 10	12 28.6	---	12 29.5	12 37	0.4	0 08	---
907	" 10	21 29.4	21 37.6	21 38.1	21 57	0.4	0 28	---
911	" 11	8 40.8	8 42.1	8 42.3	10 11	16.7	1 30	---

Register from Irkutsk Magnetical and Meteorological Observatory—continued.

No.	Date	Com-mence-ment		Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.					
914	July 11	11 15.0	—	11 44	—	0 29	—	—
915	" 11	15 45.0	15 51.1	15 55.1	16 44	1 7	—	—
918	" 12	11 31.3	11 31.4	11 31.3	11 37	0 6	—	—
919	" 12	12 32.0	—	12 32.3	12 36	0 2	—	—
921	" 13	5 55.9	—	5 54.5	6 00	0 3	—	—
922	" 13	7 09.3	—	—	7 16	—	—	—
925	" 13	23 06.0	—	23 06.7	23 18	0 2	—	—
926	" 14	9 07.1	9 10.8	9 27.9	10 53	2 0	—	—
927	" 14	19 45.6	—	19 50.7	20 11	0 2	—	—
928	" 14	22 08.1	22 03.5	22 05.0	23 23	4 3	—	—
929	" 15	7 30.8	—	7 36.5	7 48	0 1	—	—
930	" 15	10 50.0	—	10 50.8	11 00	0 2	—	—
931	" 15	12 55.0	—	—	13 11	—	—	—
933	" 16	7 26.7	—	—	7 39	—	—	—
935	" 16	19 03.5	19 17.0	19 18.7	20 02	0 4	—	—
936	" 17	0 40.5	—	1 15.7	2 27	0 4	—	—
940	" 19	4 51.1	—	—	5 01	—	—	—
942	" 21	17 28.4	—	—	17 34	—	—	—
943	" 21	19 51.6	—	19 51.7	20 01	0 2	—	—
944	" 22	3 30.6	—	3 31.2	3 42	0 3	—	—
945	" 23	2 47.5	2 47.6	2 47.7	4 20	>17.0	—	—
946	" 23	—	—	4 20.5	7 41	3 0	—	—
947	" 23	8 24.7	—	8 24.7	8 24	0 7	—	—
949	" 23	9 16.4	—	9 16.9	10 31	1 0	—	—
950	" 23	10 06.6	—	10 06.7	10 18	0 8	—	—
952	" 23	11 30.7	—	11 31.8	11 39	0 2	—	—
954	" 23	12 13.7	—	13 22	—	1 08	—	—
955	" 23	20 39.3	—	20 52	20 52	1 3	—	—
956	" 24	16 21.2	—	16 27	—	0 6	—	—
958	" 24	23 18.7	—	23 19.1	23 30	1 3	—	—
959	" 25	0 26.2	—	0 33	—	0 7	—	—
972	" 25	22 31.0	—	22 31.5	22 37	0 1	—	—
979	" 27	22 36.7	22 41.4	22 36.7	23 18	0 5	—	—
982	" 30	12 18.7	—	12 18.9	12 25	0 6	—	—
985	" 31	12 14.4	—	12 15.7	12 23	0 3	—	—
987	" 31	19 08.1	—	—	19 14	—	—	—
991	Aug. 4	5 29.8	5 44.0	5 44.5	6 56	0 6	—	—
993	" 4	16 48.2	—	16 54	—	0 6	—	—
994	" 8	13 34.7	—	14 22.7	15 59	0 4	—	—
995	" 9	4 26.3	—	4 35.2	5 08	0 4	—	—
996	" 9	9 35.8	4 34.1	—	9 44	—	—	—
997	" 11	3 31.8	—	—	3 56	—	—	—
998	" 12	18 38.4	—	—	18 43	—	—	—
999	" 12	23 28.3	—	—	23 32	—	—	—
1000	" 13	14 13.6	—	14 14.6	14 29	0 2	—	—
1001	" 15	18 36.5	—	—	18 49	0 3	—	—
1002	" 15	9 35.3	—	—	9 40	—	—	—
1009	" 25	9 50.7	—	10 01.5	10 26	0 4	—	—
1010	" 26	16 20.4	—	16 21.2	16 29	0 1	—	—
1013	" 28	4 37.4	—	4 39.8	4 54	0 2	—	—
1014	" 29	12 41.4	—	12 54	—	0 13	—	—
1016	" 30	23 36.1	—	23 37.3	23 52	0 6	—	—
1018	" 31	15 37.6	—	—	16 19	—	—	—
1019	Sept. 1	3 16.7	3 17.1	3 17.3	3 36	0 4	—	—
1020	" 1	20 38.1	—	20 39.3	20 49	0 2	—	—
1022	" 8	1 52.4	2 04.6	2 22.7	3 43	0 6	—	—
1024	" 14	19 50.6	19 57.1	20 07.2	21 41	3 8	—	—
1025	" 15	6 10.8	6 17.5	6 25.8	10 16	>17.5	—	—
1026	" 15	12 01.2	—	—	12 17	—	—	—
1027	" 15	13 03.7	13 33.0	13 38.6	14 19	0 4	—	—
1029	" 15	23 01.2	—	23 02.4	23 30	0 3	—	—
1030	" 16	7 20.0	7 26.6	7 28.0	7 55	0 2	—	—
1031	" 16	9 34.6	—	—	9 38	—	—	—
1034	" 26	3 49.7	—	—	4 01	—	—	—
1035	" 29	12 01.9	12 09.9	12 10.9	13 43	1 0	—	—
1036	" 29	14 33.6	—	14 49.7	15 39	0 3	—	—
1037	" 30	21 36.1	—	21 41.7	22 04	0 3	—	—

1906.

1122	Jan. 6	21 39.9	21 44.1	21 53.2	22 56	1 2	0 16	—
1123	" 7	16 08.9	16 09.5	16 09.6	16 20	0 3	0 11	—
1126	" 10	13 46.8	13 51.1	13 51.9	14 16	0 8	0 29	—
1129	" 15	19 54.6	19 55.9	20 00.4	20 16	0 5	0 21	—

Register from Irkutsk Magnetical and Meteorological Observatory—continued.

No.	Date	Com-mence-ment		Max.	End.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.					
1133	Jan. 21	13 54.7	13 36.0	14 08.5	16 04	5 3	2 09	—
1136	" 24	7 03.6	7 12.1	7 23.8	8 34	0 6	1 30	—
1137	" 24	22 05.4	—	22 15.4	22 40	0 3	0 44	—
1138	" 27	9 49.4	9 57.1	10 02.4	12 07	0 6	2 18	—
1139	" 28	14 52.0	—	15 01.2	15 34	0 3	0 42	—
1140	" 31	15 38.0	—	16 04.5	16 53.4	—	6 53	—
1141	Feb. 1	2 47.5	—	2 51.7	3 55	0 5	1 07	—
1144	" 4	6 34.4	6 41.6	6 42.4	6 59	0 9	0 25	—
1152	" 19	2 29.7	—	2 47.3	5 34	1 1	> 3 04	—
1153	" 23	9 58.0	—	10 09.0	10 24	0 2	0 26	—
1154	" 23	14 48.0	—	14 53.9	15 28	0 3	0 38	—
1155	" 23	15 28.7	15 37.1	15 38.3	16 48	2 1	1 19	—
1156	" 24	9 19.0	9 27.0	9 33.6	1 03	—	0 49	—
1157	" 26	22 59.4	23 07.2	23 08.6	23 45	1 0	0 46	—
1158	" 27	19 47.2	19 52.2	19 59.5	20 10	5 5	0 23	—
1160	Mar. 2	6 18.4	6 22.2	6 25.7	7 22	7 4	1 04	—
1161	" 3	9 11.7	9 16.6	9 43.5	11 01	1 1	1 49	—
1163	" 8	18 19.4	—	18 28.9	18 54	0 3	0 35	—
1164	" 9	20 39.3	—	20 39.5	20 49	0 3	0 23	—
1165	" 10	6 59.3	—	7 32.0	8 45	0 4	1 01	—
1166	" 10	12 35.1	—	—	13 02	—	0 27	—
1167	" 10	16 45.9	—	17 38.1	18 25	0 4	1 39	—
1168	" 13	13 33.0	13 37.4	13 45.7	14 15	1 8	0 42	—
1169	" 16	19 03.1	—	—	19 06	—	0 03	—
1170	" 16	20 01.6	20 02.9	20 03.0	20 25	0 8	0 23	—
1171	" 16	22 51.8	22 58.3	22 59.0	24 40	11 0	1 48	—
1172	" 18	13 05.3	—	13 05.2	13 16	—	0 32	—
1173	" 19	8 06.3	8 16.4	8 24.5	9 29	1 2	1 23	—
1175	" 20	4 19.7	4 24.8	4 25.5	4 56	0 4	0 36	—
1176	" 22	0 05.0	0 14.4	0 20.4	0 49	0 7	0 43	—
1177	" 24	1 09.5	—	1 18.1	1 40	0 3	0 30	—
1178	" 26	3 44.6	3 46.1	3 47.1	4 17	0 4	0 32	—
1179	" 27	5 44.0	—	6 28.1	7 26	0 4	1 42	—
1180	" 27	23 08.8	23 12.0	23 12.6	24 26	1 3	0 51	—
1181	" 28	17 16.2	17 18.3	17 23.4	17 54	0 4	0 38	—
1182	" 28	18 47.2	—	19 18.0	19 47	0 4	1 00	—
1183	" 28	20 28.3	20 30.8	20 31.6	20 51	1 0	0 23	—
1184	Apr. 2	3 42.3	—	3 45.5	3 56	0 2	0 14	—
1186	" 5	15 03.0	—	—	15 06	—	0 03	—
1187	" 5	19 10.0	—	19 10.0	19 26	0 3	0 10	—
1188	" 5	22 37.1	—	23 03.3	23 41	0 3	1 04	—
1189	" 7	5 09.4	5 09.9	5 10.0	5 32	0 8	0 23	—
1190	" 7	22 54.9	22 55.9	22 56.8	23 16	0 8	0 21	—
1191	" 8	17 45.5	17 54.8	17 57.7	18 52	1 4	1 03	—
1193	" 10	21 47.0	22 21.6	22 26.8	24 03	1 3	2 16	—
1194	" 13	19 28.6	19 34.5	19 35.0	21 03	0 9	1 34	—
1195	" 14	0 03.4	0 09.1	0 09.9	1 03	3 4	1 00	—
1196	" 14	4 14.0	—	4 54.1	5 48	0 4	1 34	—
1197	" 15	13 23.4	13 34.3	14 05.3	17 59	>	1 27	—
1198	" 19	7 16.8	7 45.1	7 53.0	8 44	0 4	1 36	—
1200	" 29	16 52.9	17 13.6	17 14.3	18 24	0 5	1 31	—
1201	May 2	1 24.3	1 30.5	1 34.0	2 10	0 8	0 46	—
1202	" 4	21 00.1	21 07.9	21 08.8	21 19	0 6	0 19	—
1203	" 4	23 21.9	23 28.3	23 28.9	23 44	0 5	0 22	—
1204	" 5	0 58.1	—	1 04.2	2 25	0 2	1 27	—
1205	" 12	6 03.0	6 04.3	6 04.3	6 53	1 5	0 43	—
1206	" 12	10 48.2	10 52.6	11 01.1	11 39	2 0	0 51	—
1207	" 15	21 04.6	21 08.3	21 08.4	21 29	1 2	0 23	—
1208	" 20	11 20.3	—	11 21.0	11 32	0 3	0 12	—
1209	" 20	16 14.8	—	16 16.4	16 35	0 4	0 20	—
1210	June 1	4 41.1	4 49.8	5 08.6	7 49	0 8	3 08	—
1211	" 2	14 42.5	—	15 03.3	15 32	0 2	0 49	—
1212	" 10	21 04.0	21 16.1	21 18.0	21 55	0 6	1 14	—
1213	" 19	11 30.3	11 31.9	11 43.0	12 59	6 0	1 29	—
1214	" 19	17 36.5	17 40.0	17 40.9	18 06	0 5	0 38	—
1215	" 20	3 15.4	3 31.7	3 37.8	3 53	0 4	0 29	—
1216	" 24	8 10.8	—	—	8 26	—	0 15	—
1217	" 24	11 30.5	21 38.1	11 39.7	12 53	3 4	1 22	—
1218	" 24	16 59.3	—	—	16 40	—	0 01	—
1219	July 5	7 37.8	—	7 38.3	7 47	0 3	0 18	—
1220	" 6	1 09.5	—	1 12.2				

Register from Irkutsk Magnetical and Meteorological Observatory—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks.
1223	July 10	H. M. 20 01.3	H. M. 20 11.9	H. M. 20 15.2	H. M. 20 58	MM. 0.3	H. M. 0 57	—
1224	" 12	10 37.0	—	—	10 55	—	0 18	—
1225	" 14	0 13.4	0 52.0	0 54.9	1 32	0.7	1 19	—
1226	" 20	12 02.8	—	12 34.5	13 05	0.3	1 02	—
1227	" 20	20 42.2	—	—	21 08	—	0 24	—
1230	Aug. 2	10 45.3	—	—	10 46	—	0 01	—
1221	" 15	22 06.4	22 08.5	22 09.3	22 33	0.6	0 27	—
1232	" 17	0 19.1	0 24.3	0 35.2	5 09	>17.0	4 50	—
1233	" 17	14 23.9	—	14 32.4	14 57	0.2	0 33	—
1234	" 18	7 18.1	—	7 53.2	8 23	0.3	1 05	—
1235	" 19	10 14.9	10 11.7	10 18.9	10 28	0.4	0 13	—
1236	" 19	10 43.8	11 06.2	11 12.4	11 52	0.5	1 08	—
1237	" 25	12 20.9	12 36.1	12 40.1	13 04	0.5	0 43	—
1238	" 25	14 07.7	14 31.8	14 33.5	16 42	2.0	2 24	—
1239	" 25	17 38.5	—	—	17 48	—	0 09	—
1240	" 26	6 17.9	6 20.0	6 36.1	9 16	2.5	2 58	—
1241	" 30	3 02.5	3 20.8	4 28.8	5 05	0.8	2 02	—
1242	" 31	13 08.1	13 09.4	13 14.2	13 44	1.0	0 36	—
1243	Sept. 6	19 22.2	—	19 27.5	20 24	0.2	1 02	—
1244	" 7	18 58.4	19 04.2	19 14.0	22 16	8.4	3 18	—
1245	" 14	13 42.6	—	14 44.9	15 25	0.3	1 42	—
1246	" 14	16 16.1	16 25.3	16 45.1	20 09	5.2	3 53	—
1247	" 17	4 28.1	—	4 39.2	5 08	0.3	0 40	—
1248	" 17	8 58.5	9 12.5	9 14.2	10 24	0.5	5 58	—
1249	" 28	13 47.6	—	16 32.3	17 32	0.3	2 08	—
1250	" 29	13 10.7	—	—	13 36	—	0 25	—

Register from Experiment Station, St. Clair, Trinidad, B.W.I.
J. H. HART, F.L.S., Superintendent.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906								
337	Aug. 6	H. M. 16 28	H. M. —	H. M. —	H. M. 16 30	MM. —	H. M. 0 2	Thickening of line
338	" 13	14 41	—	—	14 45	1	0 4	—
339	" 13	16 18	—	—	16 15	—	0 2	Thickening of line
340	" 13	20 28	—	—	20 32	1	0 4	—
341	" 13	21 7	—	—	21 11	—	0 4	Thickening of line
342	" 14	0 19	—	—	0 23	1	0 4	—
343	" 14	20 0	—	—	20 2	—	0 2	Thickening of line
344	" 15	12 5	—	12 7	12 30	1	0 25	—
345	" 17	0 49	1 14	1 31	?	full swing	?	Merged in tremors
346	" 17	13 29	—	13 36	13 55	1	0 26	—
347	" 17	20 56	—	20 58	21 28	1	0 32	—
348	" 18	1 26	—	—	1 41	—	0 15	Thickening of line
349	" 19	9 55	—	10 14	10 46	2.3	0 51	Merged in tremors
350	" 19	16 18	—	—	16 28	—	0 19	Thickening of line
351	" 21	14 40	—	11 53	12 11	1	0 22	—
352	" 21	20 49	—	20 54	21 0	1	0 11	—
353	" 24	2 7	—	—	2 31	—	0 24	Thickening of line
354	" 25	14 13	—	—	14 21	—	0 8	" " "
355	" 25	14 41	—	—	15 31	—	0 50	" " "
356	" 26	20 39	—	—	20 46	—	0 7	" " "
357	" 30	2 53	—	3 2	4 10	7	1 17	" " "
358	" 30	13 43	—	—	13 45	—	0 2	Thickening of line
359	Sept. 4	15 37	—	—	15 42	—	0 5	" " "
360	" 5	8 26	—	—	8 28	—	0 2	" " "
361	" 6	15 13	—	—	15 36	—	0 23	" " "
362	" 7	13 25	—	13 26	13 31	1	0 4	" " "

Register from Experiment Station, St. Clair, Trinidad, B.W.I.—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
363	Sept. 7	H. M. 16 13	H. M. 16 13	H. M. 16 17	MM. 1	H. M. 0 4	—	—
364	" 7	19 56	—	20 8	20 29	2	0 33	—
365	" 8	15 50	—	—	18 58	—	0 8	Series of small movements.
366	" 11	16 36	—	—	14 56	—	4 0	Boom moved to East and returned to position on several successive days.
367	" 11	11 42	—	11 41	11 49	1	0 7	—
368	" 14	13 48	—	13 54	14 16	1	0 28	—
369	" 14	16 31	—	—	18 46	—	2 15	Long series of thickenings.
370	" 20	17 51	—	18 6	18 30	1	0 48	—
371	" 21	2 2	—	2 26	2 26	—	0 24	Thickening of line
372	" 28	15 38	—	15 42	16 8	4	0 30	Thickening of line
373	Nov. 5	14 14	—	—	14 19	—	0 5	Series of thickenings.
374	" 7	19 26	—	—	20 13	—	0 47	Thickening of line
375	" 16	14 25	—	—	14 29	—	0 6	" " "
376	" 16	15 15	—	—	15 27	—	0 12	" " "
377	" 19	13 43	—	—	15 10	—	0 27	" " "
378	" 19	16 59	—	—	17 8	—	0 9	" " "
379	" 11	2 18	—	—	2 32	—	0 14	" " "
380	" 13	14 46	—	—	14 50	—	0 4	" " "
381	" 14	18 26	—	—	19 16	—	0 50	Several thickenings.
382	" 22	23 36	—	—	23 30	1.5	0 3	Thickening of line
383	" 24	15 16	—	—	15 26	—	0 10	—
384	" 25	2 0	—	—	2 3	2	0 3	—
385	" 26	5 32	—	—	5 35	—	0 3	Thickening of line
386	" 26	9 34	—	—	9 39	—	0 5	—
387	" 28	9 21	—	—	9 48	1	0 27	—
388	Dec. 3	14 58	—	15 1	15 16	3	0 18	—
389	" 3	23 10	—	23 12	23 58	14	0 48	Shock felt.
390	" 19	0 45	—	—	2 36	0.5	1 51	Several maxima.
391	" 23	17 47	—	18 24	19 4	1.5	1 17	—
392	" 24	1 3	—	—	1 10	—	0 7	Thickening of line
393	" 26	6 8	—	6 16	6 51	3	0 48	—

Register from U. and G.S. Magnetic Observatory, near Honolulu, T.H.
Observers, S. A. DEEL and W. F. WALLIS. Compiler, J. W. GREEN.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1905								
135	July 3	H. M. 0 03.6	H. M. 0 12.2	H. M. 0 15.1	H. M. 0 48.4	MM. 0.7	H. M. 0 45	Very small.
136	" 4	0 02.5	—	0 05.4	0 22.2	0.1	0 20	* End of trace.
137	" 6	16 21.0	16 38.8	15 49.0	19 22.0	3.4	3 01	—
138	" 6	22 39.9	22 51.0	22 56.0	23 16.0	0.4	0 42	—
139	" 11	9 15.4	9 25.4	9 31.4	9 58.0	0.4	0 43	—
140	" 11	11 23.0	—	11 27.9	11 44.5	0.3	0 21	—
141	" 11	14 37.8	15 53.8	15 54.3	17 50.0	0.6	2 52	—
142	" 14	9 09.0	9 07.0	9 16.2	10 06.0	2.2	1 06	* End doubtful
143	" 14	22 32.4	—	22 49.8	23 19.2	0.2	0 38	—
144	" 16	19 53.3	—	19 48.8	20 15.7	0.3	0 49	—
145	" 17	0 22.0	0 49.5	0 33.3	2 34.5	6.0	2 12	—
146	" 23	2 58.8	3 04.8	3 27.0	7 53.4	29.0	4 55	—
147	" 27	22 44.3	—	23 04.5	23 17.3	0.3	0 33	—
148	Aug. 6	19 13.5	19 17.5	—	—	0.6	—	Doubtful.

Register from C. and G.S. Magnetic Observatory, near Honolulu, T.H.—continued.

No.	Date	Com- mence- ment	L.W. Commence		Max.	End	Max. Ampli- tude	Duration	Remarks
			H. M.	M. M.					
149	Aug. 8	H. M. 13 26.8	H. M. 13 32.2	H. M. 13 38.7	H. M. 14 33.0	MM. 1.2	1 06	—	
150	Sept. 1	3 02.6	3 09.4	3 19.6	3 38.6	0.4	0 36	—	
151	" 8	2 05.1	2 54.1	2 56.1	4 40.0	1.0	2 35	—	
152	" 14	—	19 56.2	20 05.6	21 44.0	0.6	—	Began while light was cut off.	
153	" 15	6 10.3	6 16.3	6 25.1	9 47.0	12.5	3 37	—	
154	" 15	22 42.2	22 54.0	2 54.8	23 30.4	0.5	0 48	Doubtful.	
155	" 26	2 13.6	2 31.2	2 37.2	3 43.4	0.5	1 30	—	
156	" 29	12 04.1	12 31.6	12 33.7	—	1.3	—	Beginning and end uncertain.	
157	Oct. 17	—	11 24.2	11 27.9	—	—	0.6	Beginning and end uncertain.	
158	" 21	—	—	18 45.9	19 58.0	1.1	—	Began while light was cut off.	
159	" 21	3 56.0	4 15.0	4 18.0	—	0.4	—	—	
160	" 24	17 46.7	18 02.2	18 06.2	—	2.8	—	Beginning and end uncertain.	
161	Nov. 1	10 24.0	10 58.9	11 00.2	11 52.0	0.3	1 28	—	
162	" 3	—	18 49.9	18 53.5	—	0.6	—	Beginning and end uncertain.	
163	" 6	—	17 23.7	17 26.8	18 20.0	1.0	—	Beginning and end uncertain.	
164	" 8	22 42.6	23 14.9	23 22.8	24 48.4	1.2	2 06	—	
165	" 21	22 07.5	22 17.4	22 21.5	25 28.0	0.5	3 20	Series of tremors.	
166	" 23	6 58.8	—	7 03.4	7 12.0	—	0 13	Single tremor.	
167	Dec. 9	14 13.1	—	14 18.0	14 35.6	0.4	0 22	—	
168	" 10	—	12 47.0	12 49.7	14 00.0	3.8	—	Beginning uncertain.	
169	" 10	—	18 45.0	18 53.1	20 52.0	1.9	—	Beginning uncertain.	
170	" 17	5 39.0	5 50.8	5 53.7	8 24.0	3.2	2 45	—	
171	" 17	9 55.0	9 56.6	9 59.0	11 02.0	1.6	1 07	—	
172	" 17	11 40.0	—	11 43.0	11 46.0	0.5	0 06	Single tremor.	
173	" 18	6 26.2	—	6 28.2	6 31.0	—	0 05	" "	
1906.									
174	Jan. 5	2 02.2	2 16.4	2 20.9	3 27.0	0.8	1 25	—	
175	" 4	4 31.8	—	4 36.8	4 44.0	0.4	0 12	Single tremor.	
176	" 6	21 46.9	21 53.8	21 58.7	22 53.0	0.6	1 06	—	
177	" 10	—	13 25.6	13 29.3	—	2.0	—	Beginning and end uncertain.	
178	" 18	22 17.6	22 29.2	22 33.8	22 45.3	1.0	0 28	—	
179	" 21	13 50.0	14 14.0	14 24.0	16 40.0	2.1	2 41	—	
180	" 22	4 21.5	4 30.3	4 32.8	5 18.0	0.6	0 56	—	
181	" 24	6 51.9	6 57.7	6 53.9	8 12.0	2.6	1 29	—	
182	" 24	20 33.4	—	—	—	1.0	—	Trace light-struck	
183	" 25	20 53.3	—	20 56.8	21 00.8	0.5	0 08	Single tremor.	
184	" 27	9 56.0	9 59.3	10 00.5	11 20.0	3.8	1 24	—	
185	" 28	14 55.0	15 05.0	15 07.0	15 26.0	0.5	0 21	Single tremor.	
186	" 31	15 49.3	15 59.7	16 18.7	23 02.0	35.40	7 13	—	
187	Feb. 1	23 32.8	2 39.9	2 43.4	3 46.0	1.5	1 13	—	
188	" 2	23 47.5	—	24 03.2	24 23.8	0.2	0 38	—	
189	" 2	17 32.1	—	17 33.2	17 40.0	1.2	0 08	—	
190	" 3	4 31.5	—	4 35.2	4 29.7	0.3	0 08	Single tremor.	
191	" 3	21 22.8	—	21 23.8	21 32.0	0.1	0 09	" "	
192	" 4	6 39.7	—	6 53.8	7 02.3	0.1	0 23	" "	
193	" 5	4 30.6	4 46.7	4 50.2	5 45.5	0.9	1 15	—	
194	" 6	1 48.9	—	—	2 25.4	0.1	0 07	Tremors.	
195	" 8	0 19.7	0 22.7	0 23.7	1 12.0	0.8	0 52	—	
196	" 10	14 25.5	—	14 30.1	14 33.8	0.2	0 08	Single tremor.	
197	" 17	0 39.6	—	0 55.6	1 32.0	0.2	0 52	Tremors.	
198	" 19	2 08.9	2 23.4	2 28.2	5 56.0	11.7	3 47	Typical.	
199	" 20	6 09.0	—	6 15.7	6 24.9	0.2	0 15	Single tremor.	
200	" 20	19 53.8	—	19 57.6	11 00.6	5.1	0 07	—	
201	" 21	1 31.2	—	2 05.2	2 11.3	0.2	0 20	" "	
202	" 23	15 38.0	15 40.3	15 43.4	15 37.8	0.0	0 20	" "	
203	" 24	0 31.9	—	0 44.7	1 05.7	0.3	0 34	Tremors.	
204	" 26	23 03.7	23 10.9	23 15.2	23 39.0	0.7	0 35	—	
205	" 27	20 05.3	20 41.0	20 43.6	21 25.8	0.3	1 20	—	
206	" 28	13 32.1	—	13 44.2	13 58.6	0.2	0 36	Tremors.	
207	Mar. 2	7 06.6	—	7 11.2	7 23.3	0.2	0 17	Beginning uncertain.	
208	" 3	1 12.0	—	1 14.5	1 18.4	0.2	0 06	Tremor.	

Register from C. and G.S. Magnetic Observatory, near Honolulu, T.H.—continued.

No.	Date	Com- mence- ment	L.W. Commence		Max.	End	Max. Ampli- tude	Duration	Remarks
			H. M.	M. M.					
209	Mar. 3	H. M. 8 52.7	H. M. 9 13.7	H. M. 9 19.8	H. M. 11 35.0	MM. 1.9	2 42	—	
210	" 5	8 41.7	—	8 55.8	9 05.7	0.2	0 24	Tremor.	
211	" 10	4 53.4	—	4 57.7	5 04.3	0.2	0 11	" "	
212	" 10	6 43.0	6 58.2	7 06.0	7 49.0	2.0	1 04	—	
213	" 10	16 44.4	16 44.4	16 52.7	17 35.0	—	—	Phases obscured.	
214	" 11	8 58.9	—	9 07.3	9 08.0	0.2	0 10	Tremor.	
215	" 14	20 13.0	20 31.3	20 35.6	21 14.0	0.5	1 01	—	
216	" 16	23 04.0	23 18.0	23 22.0	24 04.0	0.2	1 00	—	
217	" 20	2 15.0	2 27.3	2 32.4	2 58.0	0.6	0 42	—	
218	" 27	5 17.6	6 02.2	6 06.6	7 18.0	0.3	2 06	—	
219	" 27	23 35.1	—	23 39.7	23 43.4	0.2	0 10	Tremor.	
220	" 28	—	18 31.3	18 34.2	—	—	1.2	Beginning and end uncertain.	
221	" 29	22 07.7	22 23.0	22 27.7	22 46.5	0.3	0 39	—	
222	Apr. 5	22 36.1	22 51.1	23 01.6	23 54.0	1.9	1 18	—	
223	" 10	21 31.0	21 43.0	21 46.2	24 31.0	6.5	3 00	Disturbed by insect.	
224	" 13	19 39.6	19 54.8	19 59.4	22 00.0	1.2	2 20	—	
225	" 14	0 04.1	0 29.2	0 31.9	0 51.0	0.3	0 47	—	
226	" 14	1 44.4	—	1 50.8	1 59.4	0.2	0 15	Tremor.	
227	" 14	4 07.2	4 14.2	4 20.3	5 45.0	2.5	1 38	—	
228	" 16	11 42.1	—	11 46.2	11 50.7	0.3	0 19	Tremor.	
229	" 18	13 19.5	13 26.5	13 28.7	16 51.0	—	3 32	San Francisco earthquake.	
230	" 19	0 45.8	—	0 49.5	1 49.5	1.0	1 04	—	
231	" 19	6 22.0	—	6 34.0	6 58.0	0.2	0 36	Tremor.	
232	" 19	7 01.2	7 18.6	7 22.2	8 26.0	3.9	1 25	—	
233	" 23	9 17.2	9 24.4	9 25.7	9 43.5	0.5	0 26	—	
234	" 25	1 46.9	1 55.9	1 56.9	2 46.0	0.3	0 59	—	
235	" 25	10 36.0	—	10 40.7	10 46.4	0.2	0 10	Tremor.	
236	" 25	—	12 31.7	12 32.8	12 45.0	2.3	—	Beginning and end uncertain.	
237	" 30	3 01.6	—	3 08.9	3 14.8	0.3	0 13	Tremor.	
238	May 2	1 34.5	1 48.8	1 56.1	2 16.6	0.6	0 42	—	
239	" 2	7 23.0	—	7 31.8	7 38.8	0.4	0 16	Tremor.	
240	" 5	0 55.5	1 06.7	1 11.2	2 19.4	0.5	1 44	—	
241	" 12	10 55.2	11 01.7	11 06.4	11 50.0	1.0	0 55	—	
242	" 17	18 03.0	18 22.0	18 23.0	—	0.6	—	End uncertain.	
243	" 21	—	13 12.0	13 15.0	—	—	—	Beginning and end uncertain.	
244	June 1	4 41.7	4 50.3	5 06.3	8 21.0	3.9	3 39	—	
245	" 2	14 15.4	14 53.9	14 56.3	—	1.1	—	End uncertain.	
246	" 7	2 18.0	2 48.5	2 49.4	3 57.0	0.2	1 39	—	
247	" 18	12 28.2	—	12 32.6	12 37.0	0.2	0 09	Tremor.	
248	" 19	11 38.4	11 59.0	12 02.5	14 04.0	1.4	2 26	—	
249	" 20	2 46.0	2 57.3	3 06.8	3 55.0	0.4	1 00	—	
250	" 24	11 40.6	12 05.5	12 15.6	—	0.5	—	End uncertain.	
251	July 5	7 38.5	—	7 49.3	7 49.4	0.3	0 11	Tremor.	
252	" 8	22 19.7	22 49.2	22 53.2	23 49.4	1.0	1 30	Tremors 21h. 50m. to 22h. 05m.	
253	" 10	19 57.9	20 20.8	20 29.6	20 58.0	0.4	1 00	—	
254	" 12	10 24.0	10 34.0	10 38.3	11 13.4	0.4	0 49	Tremors.	
255	" 15	15 54.2	16 23.0	16 27.9	16 58.7	0.9	1 04	—	
256	Aug. 1	23 26.1	23 41.2	23 45.2	24 33.5	0.3	1 07	—	
257	" 8	2 29.8	2 37.7	2 41.1	2 53.4	0.5	0 21	Faint tremors at 0h. 30m. and 1h. 20m.	
258	" 9	11 21.5	11 26.0	11 30.1	11 51.0	0.6	0 30	Tremor.	
259	" 13	21 48.4	—	21 51.1	21 54.9	0.2	0 06	" "	
260	" 16	22 15.8	—	22 18.8	22 25.2	0.2	0 06	" "	
261	" 17	0 17.4	0 22.9	0 22.9	1 59.0	10.6	4 35	—	
262	" 17	13 36.9	—	13 41.5	13 47.0	0.3	—	Tremor.	
263	" 18	1 31.9	—	1 36.0	1 39.0	0.2	0 07	" "	
264	" 18	7 17.7	—	7 20.9	8 17.0	0.2	0 59	Series of tremors.	
265	" 19	0 54.2	10 16.2	10 20.6	11 34.0	0.9	1 40	—	
266	" 20	16 49.8	—	16 52.2	16 55.5	0.2	0 06	Tremor.	
267	" 23	20 20.2	—	20 23.7	20 30.6	0.2	0 10	—	
268	"								

Register from C. and G.S. Magnetic Observatory, near Honolulu, T.H.—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks.
274	Sept. 7	H. M. 19 02.3	H. M. 19 19.5	H. M. 19 24.8	H. M. 22 40.0	M.M. 8.5	H. M. 3 38	—
275	" 14	16 14.6	16 23.1	16 38.2	20 33.0	29.0	4 18	Beginning uncer- tain.
276	" 17	4 33.6	—	4 48.2	5 19.0	0.6	0 45	—
277	" 17	8 48.0	9 06.7	9 11.9	11 34.9	3.3	2 47	—
278	" 20	18 17.1	—	18 21.4	19 25.0	0.6	1 08	Tremors.
279	" 21	1 36.7	—	1 57.6	2 50.7	0.4	1 14	—
280	" 28	15 47.7	16 04.5	16 07.1	—	1.9	—	Beginning and end uncertain.
281	" 29	13 07.4	—	13 17.2	13 36.0	0.4	0 29	Tremors.
282	Oct. 2	0 13.3	—	0 17.8	0 26.5	0.2	0 13	Tremor.
283	" 2	2 01.6	2 19.0	2 25.8	6 43.0	14.9	4 41	—
284	" 3	0 17.6	0 29.0	0 32.4	1 37.4	0.8	1 20	—
285	" 8	6 30.8	—	6 36.6	6 41.0	0.1	0 10	Tremors.
286	" 9	15 21.0	—	15 28.2	15 32.2	0.5	0 11	Doubtful.
287	" 9	16 34.2	—	16 40.0	17 07.4	0.6	0 33	Tremors.
288	" 10	7 42.2	—	8 05.2	8 19.8	0.2	0 38	Obscured by air tremors.
289	" 10	13 38.2	—	13 42.7	14 02.0	0.5	0 34	Tremors.
290	" 10	20 50.1	—	24 32.0	25 06.2	0.2	1 16	—
291	" 11	5 15.2	5 32.0	5 38.0	6 22.2	1.1	1 07	—
292	" 15	6 32.2	—	6 35.6	6 39.4	0.2	0 07	Tremor.
293	" 17	10 03.0	10 19.3	10 26.3	10 49.0	3.7	0 46	Obscured by air tremors.
294	" 18	3 14.3	—	3 20.3	3 24.4	0.2	0 10	Tremor.
295	" 24	15 32.2	15 43.7	15 44.9	16 10.0	0.8	0 38	Obscured by air tremors.
296	" 27	3 55.3	4 02.1	4 11.0	4 42.4	0.4	0 47	—
297	" 29	1 36.6	1 50.4	1 56.9	2 42.3	0.2	1 06	—
298	" 31	1 54.0	—	2 21.6	2 51.0	0.2	0 57	Tremors.
299	Nov. 5	20 12.7	—	20 31.8	21 07.0	0.4	0 54	—
300	" 5	23 21.2	23 42.3	28 47.0	24 14.0	0.4	0 53	—
301	" 8	0 56.9	1 08.0	1 11.8	2 31.8	1.6	1 35	—
302	" 8	20 04.5	20 14.7	20 19.1	20 32.0	0.8	0 28	Tremor.
303	" 10	5 19.1	5 27.0	5 34.1	6 18.0	1.0	0 59	—
304	" 14	17 53.7	17 57.2	18 04.3	21 32.0	9.3	3 38	—
305	" 15	3 28.6	—	3 35.5	3 55.0	0.3	0 26	Tremors.
306	" 15	23 39.4	—	23 55.7	24 12.0	0.2	0 33	—
307	" 16	16 10.4	—	16 15.9	16 19.4	0.2	0 09	Tremor doubtful.
308	" 19	7 32.1	8 00.0	8 16.5	10 06.0	3.5	2 28	End uncertain.
309	" 19	22 35.5	—	22 45.6	22 56.3	0.2	0 15	Tremor.
310	" 25	11 26.6	—	11 27.2	11 31.6	0.8	0 05	Doubtful.
311	" 28	9 26.5	9 49.0	9 53.2	10 55.0	0.4	1 28	Tremors.
312	Dec. 3	23 23.2	—	23 23.8	24 52.0	0.6	1 29	—
313	" 8	21 38.0	—	21 42.3	22 00.0	0.3	0 22	Tremor.
314	" 12	4 27.4	4 37.0	4 41.6	5 02.0	0.6	0 35	—
315	" 13	10 39.8	—	10 43.3	10 45.3	0.2	0 06	Tremor.
316	" 17	22 00.2	—	22 01.8	22 10.8	0.3	0 11	—
317	" 18	21 14.9	—	21 24.3	22 10.4	0.5	0 56	Trace blurred.
318	" 19	1 22.7	1 32.5	1 38.6	5 01.0	3.5	3 38	—
319	" 22	—	19 05.0	19 18.2	21 37.0	6.5	—	Beginning uncer- tain.
320	" 23	7 13.2	—	7 20.2	7 28.0	0.9	0 15	—
321	" 23	—	17 33.4	17 36.5	21 07.0	3.0	—	Beginning uncer- tain.
322	" 26	6 07.1	6 17.4	6 20.6	7 40.0	0.8	1 33	—

The Seismological Institute, Tokyo, Japan.
Observer, A. IMAMURA, D.Sc.

No.	Date	Com- mence- ment	Max.	Max. Ampli- tude	Duration	Remarks.
1905						
443	Jan. 13	H. M. 13 29.0	H. M. 13 39.0	M.M. 1.2	H. M. 1 0	—
444	" 13	18 40.1	11 43.3	1.7	1 20	—
445	" 16	3 34.5	3 35.0	0.3	1 15	—
446	" 22	2 48.2	3 1.0	4.0	2 10	—
447	" 27	11 54.1	11 59.1	0.6	17	—
448	Feb. 3	15 54.6	15 54.8	0.6	0.8	Origin near Tokyo.
449	" 5	18 42.3	18 43.4	0.4	2.3	Origin near Kyoto.
450	" 13	5 39.5	5 41.2	0.5	40	—
451	" 14	8 53.5	9 12.5	3.0	3 0	—
452	" 15	4 9.0	9 15.3	0.4	30	—
453	" 17	11 49.1	12 8.5	3.8	1 20	—
454	" 21	5 27.5	5 28.7	0.4	15	Origin off S. coast of Hokkaido.
455	Mar. 4	12 17.9	12 18.5	2.1	6	Origin near Tokyo.
456	" 4	23 25.1	23 36.0	0.8	2 15	—
457	" 8	18 31.8	18 33.2	0.3	11	Origin near Tokyo.
458	" 15	19 2.1	19 12.1	0.3	1 0	—
459	" 17	19 40.1	19 41.0	0.3	11	Origin near Noto.
460	" 19	0 7.8	0 19.9	1.7	1 50	—
461	" 22	3 44.6	3 58.6	2.8	2 30	—
462	" 22	11 29.7	11 33.5	0.4	25	Probably not earthquake.
463	" 24	8 55.2	8 55.8	0.4	22	—
464	" 27	14 29.4	14 31.3	0.5	13	—
465	" 27	19 9.0	19 11.0	0.7	12	—
466	" 30	17 10.9	17 16.1	2.0	35	Origin probably in Bonin Curve.
467	Apr. 4	0 59.0	uncertain	—	2 40	* From Onori's instrument.
468	" 6	1 1.6	1 1.8	0.1	2.5	—
469	" 6	12 29.6	12 30.0	0.8	2.5	Origin near Tokyo.
470	" 13	0 1.3	9 1.3	0.4	7.5	—
471	" 19	13 30.7	13 46.5	0.5	1 0	—
472	" 23	20 14.2	20 14.9	0.7	4	Origin near Tokyo.
473	May 1	14 1.0	14 1.5	1.4	2.7	—
474	" 2	1 22.1	1 22.1	0.2	2.5	—
475	" 2	2 32.0	2 32.3	0.3	1	—
476	" 2	2 33.6	2 33.6	0.3	1	—
477	" 2	13 55.2	13 55.2	0.4	2.5	—
478	" 8	10 45.5	10 45.5	0.3	2.3	—
479	" 8	17 54.2	17 58.5	1.4	15	Origin off the coast of Hitachi.
480	" 8	18 35.4	18 36.4	0.3	25	—
481	" 9	4 30.3	4 53.8	0.3	50	—
482	" 9	17 51.3	17 51.3	0.3	6.5	Origin off the coast of Hitachi.
483	" 11	17 12.7	17 17.2	1.9	1 30	* From Onori's instrument.
484	" 18	13 55.5	14 5.5	0.6	31	—
485	" 22	19 0.5	19 0.9	0.5	1.5	—
486	June 2	5 41.3	5 43.5	12.0	52	Origin Setouchi.
487	" 2	10 58.3	10 59.5	0.3	5.5	—
488	" 5	15 39.5	15 44.0	2.2	17	Origin near Oshima, Izu.
489	" 5	16 11.7	16 13.9	2.2	13	—
490	" 5	16 49.1	16 51.5	2.8	13	—
491	" 5	17 3.8	17 6.0	2.3	10	—
492	" 5	17 20.9	17 23.4	3.2	17	—
493	" 5	20 14.5	20 17.0	3.3	14	—
494	" 6	0 24.6	0 26.0	1.2	5	—
495	" 6	2 33.9	2 33.9	0.2	1.8	—
496	" 6	2 38.1	2 39.1	0.7	8	—
497	" 6	2 48.6	2 59.4	1.3	3	—
498	" 6	12 29.4	12 29.8	0.4	1.5	—
499	" 6	19 6.0	19 4.3	0.3	1.3	—
500	" 6	22 18.1	22 18.7	0.7	5	—
501	" 7	1 15.4	1 15.4	0.3	1	—
502	" 7	1 17.1	1 17.1	0.6	1	—
503	" 7	1 27.5	1 27.5	0.8	2	—
504	" 7	5 37.5	5 41.5	> 18.0	50	Origin near Oshima.
505	" 7	6 28.7	6 29.7	0.6	4	—
506	" 7	6 41.8	6 42.7	1.3	3	—
507	" 7	6 44.8	6 45.4	3.2	> 10	Tail masked by No. 507.
508	" 7	6 44.8	6 56.5	0.4	3.5	—
509	" 7	7 11.7	7 12.3	1.2	3.5	—
510	" 7	7 33.7	7 33.7	0.2	1.2	—
511	" 7	7 37.6	7 37.6	0.3	1.2	—

Register from the Seismological Institute, Tokyo, Japan—continued.

No.	Date	Com- mence- ment	Max.	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
512	June 7	13 4.8	13 6.4	1.6	4.5	—
513	" 9	5 38.4	5 42.9	0.4	4.5	—
514	" 12	1 1.5	1 1.5	0.6	2.5	—
515	" 12	1 15.9	1 13.3	1.8	2.0	—
516	" 12	21 19.9	21 23.1	0.3	1.4	—
517	" 24	12 23.3	12 27.7	1.1	2.5	—
518	July 6	16 21.9	—	—	—	Suboceanic origin near N.E. Japan.
519	" 8	22 13.4	—	—	—	Ditto.
520	Sept. 2	6 49.0	6 51.0	1.9	4.0	Nature doubtful.
521	" 16	4 56.1	4 58.3	0.7	8	—
522	" 16	14 8.2	14 9.8	0.4	7	—
523	" 17	1 27.3	1 27.9	0.3	1.5	—
524	" 17	1 39.9	1 39.9	0.4	2.5	—
525	" 18	13 23.1	13 24.0	0.8	4.5	—
526	" 18	22 52.6	22 53.4	1.4	4.5	—
527	" 20	19 6.0	19 6.6	0.6	4.5	—
528	" 21	13 0.2	13 0.5	4.0	6	Origin near Tokyo.
529	" 22	0 43.2	0 43.6	3.7	6	—
530	" 23	3 31.6	3 31.6	0.4	1.4	—
531	" 23	3 34.7	3 34.7	0.7	2.8	—
532	" 25	7 2.6	7 2.6	0.5	2	—
533	" 29	1 16.3	1 16.9	0.5	3.5	—
534	" 29	11 48.2	12 11.5	1.6	1 10	Origin near Tokyo.
535	Oct. 2	1 53.6	1 54.0	2.7	11	Origin N.E. Japan.
536	" 3	23 15.9	23 19.1	1.5	10	—
537	" 6	4 17.2	4 17.6	0.9	1.5	—
538	" 9	17 27.0	17 27.5	0.7	1.8	—
539	" 10	1 33.0	1 53.7	7.0	18	Origin near Tokyo.
540	" 10	4 49.5	4 51.9	0.5	15	—
541	" 10	5 20.2	5 21.9	0.9	12	—
542	" 10	5 29.6	5 31.2	0.4	15	—
543	" 10	6 15.0	6 15.0	1.1	1.5	—
544	" 10	14 0.0	14 1.4	0.5	12	—
545	" 13	4 50.0	4 50.0	0.4	2.5	—
546	" 14	2 52.8	2 52.8	3.2	2.5	Origin near Tokyo.
547	" 19	0 9.4	0 9.4	1.4	3	Ditto.
548	" 23	0 47.5	0 47.5	0.6	2	—
549	" 24	3 47.2	3 47.8	2.3	15	Origin near Izu.
550	" 24	4 31.9	4 31.9	0.3	2	—
551	" 25	21 2.5	21 3.7	0.4	4.5	Suboceanic origin near N.E. Japan.
552	Nov. 1	5 0.3	5 1.1	1.5	11	Local shock.
553	" 2	2 21.9	2 22.3	0.9	9	—
554	Dec. 3	4 47.1	4 48.6	0.4	8	Origin near N.E. Japan.
555	" 23	2 37.9	2 39.3	0.3	10	Ditto.
556	" 26	3 11.9	3 12.2	3.5	7	Origin off the coast of Iwaki.
1906						
557	Jan. 8	14 0.0	—	—	—	Boom shifted; Origin near Tokyo.
558	" 9	5 13.6	5 13.6	0.4	3.2	—
559	" 9	9 52.6	9 53.0	3.3	6.5	Origin near Tokyo.
560	" 13	5 7.2	5 7.5	0.4	4.5	—
561	" 15	23 32.3	23 32.7	0.4	2.5	—
562	" 18	12 21.0	12 21.0	0.5	2.5	Origin Mino.
563	" 21	13 50.2	13 51.3	15.0	2 0	Origin east of Bo-So peninsula.
564	" 27	9 47.7	11 2.2	2.7	1 30	—
565	" 28	14 41.6	14 42.4	2.5	10	Origin near Tokyo.
566	" 31	15 59.1	17 3.8	3.5	3 0	—
567	Feb. 1	2 49.8	2 52.0	0.7	7	—
568	" 6	4 41.8	4 42.1	0.9	3.5	Origin near Tokyo.
569	" 7	22 50.0	22 50.0	0.3	1.8	Ditto.
570	" 8	1 13.8	1 15.0	0.7	5	—
571	" 12	23 43.9	23 43.9	2.0	16	Origin near Tokyo.
572	" 16	21 43.2	21 43.7	2.7	10	Origin east of Bo-So peninsula.
573	" 18	5 15.8	5 15.8	2.3	7	Tail masked by air tremor.
574	" 19	3 12.6	3 24.6	5.7	1 50	Origin east of Bo-So peninsula.
575	" 23	9 50.5	9 51.1	>10.0	20	Boom shifted. Origin S.E. of Bo-So peninsula.
576	" 24	0 13.4	0 14.0	—	—	—
577	" 24	9 52.0	9 52.0	0.5	4	—
578	Mar. 2	6 39.8	6 41.3	0.7	17	—
579	" 7	2 17.1	2 18.9	1.0	7	Origin off the coast of Iwaki.
580	" 10	7 59.2	8 10.2	0.6	50	—

Register from the Seismological Institute, Tokyo, Japan—continued.

No.	Date	Com- mence- ment	Max.	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
581	Mar. 13	13 20.0	13 23.0	2.5	27	—
582	" 17	7 47.3	—	—	—	Formosa earthquake. * From Omori's instrument.
583	" 29	17 20.2	17 21.4	1.0	10	—
584	Apr. 5	2 50.0	2 50.0	0.6	15	Origin off the coast of Iwaki.
585	" 6	3 13.2	3 13.6	1.1	7	—
586	" 6	4 8.7	4 9.0	0.9	7	—
587	" 8	6 42.6	6 43.0	0.7	5.5	—
588	" 8	7 0.7	7 0.7	0.9	3	—
589	" 10	17 39.4	17 40.3	>13.0	45	Origin off the coast of Iwaki.
590	" 10	21 45.9	20 50.6	0.9	14	Probably P.T. of No. 591.
591	" 10	22 2.9	22 6.8	1.8	1 10	—
592	" 11	10 8.4	10 9.2	0.6	5	—
593	" 13	19 28.6	19 36.5	1.8	1 10	Formosa earthquake.
594	" 14	0 3.9	0 13.4	1.3	50	—
595	" 14	4 8.2	4 20.5	0.8	30	—
596	" 14	7 31.3	7 32.5	1.0	15	—
597	" 15	20 15.7	20 17.0	0.5	15	—
598	" 18	13 24.7	13 26.4	4.5	2 30	Instrument not sensitive.
599	" 20	19 38.7	19 40.4	1.4	13	Origin Hida.
600	May 5	0 13.0	0 12.5	4.7	30	—
601	" 5	4 13.0	4 13.0	0.3	4	—
602	" 8	15 11.5	15 11.5	0.7	2.5	—
603	" 8	15 15.3	15 15.3	0.4	2	—
604	" 10	5 33.0	5 33.5	2.4	3	Origin near Tokyo.
605	" 12	10 46.6	10 48.1	0.6	10	—
606	" 15	9 9.9	9 9.9	0.5	2	—
607	" 16	10 10.2	10 12.1	2.7	19	Origin off the coast of Hitachi.
608	" 18	16 31.3	16 31.5	8.8	18	Ditto.
609	" 21	5 21.5	5 21.5	0.6	1	Origin near Tokyo.
610	" 21	6 56.9	—	—	—	Boom shifted. Origin Stamosa.
611	" 25	9 14.0	9 14.0	0.3	7	—
612	" 27	21 50.0	22 0.3	1.5	10	Origin off the coast of Kazusa.
613	" 29	14 21.1	14 21.8	2.1	18	Origin near Tokyo.
614	" 30	12 27.7	12 27.7	1.0	7	Ditto.
615	June 1	3 49.5	4 3.0	3.2	2 9	—
616	" 2	4 0.9	4 3.1	0.3	5	—
617	" 2	4 15.8	4 17.4	0.4	11	—
618	" 2	14 41.7	14 46.6	0.5	35	—
619	" 3	1 30.4	1 30.4	0.4	15	—
620	" 3	7 7.3	7 8.0	0.4	17	—
621	" 4	22 53.4	23 6.6	0.5	10	Nature doubtful.
622	" 5	2 8.0	2 9.5	0.4	6	Ditto.
623	" 5	4 48.8	4 49.5	0.4	9	Ditto.
624	" 10	19 8.3	19 12.2	0.4	11	Origin near Bo-So peninsula.
625	" 10	21 15.4	21 21.4	0.5	16	—
626	" 19	11 24.1	11 27.5	1.8	1 18	—
627	" 19	16 27.8	16 30.2	0.3	1 18	—
628	" 24	11 38.0	11 53.0	1.9	1 0	Local shock.
629	July 12	7 39.7	7 39.7	0.4	2.5	Origin near Tokyo.
630	" 23	4 15.8	4 16.3	1.8	12	—
631	" 30	21 38.7	21 39.7	0.3	2	—
632	Aug. 1	23 27.0	23 34.4	1.7	2 0	—
633	" 17	0 17.5	0 22.8	1.2	—	Origin near Aleutian Is.
634	" 17	1 1.7	1 20.0	0.7	1 20	Valparaiso earthquake. Instrument not sensitive.
635	Sept. 5	4 53.2	4 53.8	0.5	1.5	—
636	" 7	18 53.2	18 55.7	>13.0	>1 10	Origin off the coast of Bo-So peninsula.
637	" 7	20 6.1	20 7.3	3.7	1 10	Probably after shock of No. 636.
638	" 7	23 55.3	23 56.6	0.4	3.5	—
639	" 8	9 43.1	9 45.5	1.4	20	—
640	" 9	12 26.6	12 30.6	0.9	15	—
641	" 13	16 13.6	16 26.1	14.9	2 30	—
642	" 17	4 16.8	4 15.4	15.5	1 30	Origin near Tokyo.
643	" 17	8 26.8	8 27.1	0.7	3	—
644	" 18	0 58.3	0 59.2	0.4	2.5	—
645	Oct. 2	2 1.8	2 13.8	3.2	2 0	—
646	" 6	6 13.0	6 13.0	0.4	1.5	—
647	" 6	6 41.2	6 41.2	0.3	1	—
648	" 6	7 0.9	7 0.9	0.3	1	—
649	" 6	7 15.7	7 15.7	0.4	1.5	—
650	" 6	9 37.4	9 37.9	0.6	7	—
651	" 6	11 53.9	11 53.9	0.3	3	—
652	" 10	12 52.3	12 52.6	0.3	2.5	—

Register from the Seismological Institute, Tokyo, Japan—continued.

No.	Date	Com- mence- ment	Max.	Max. Ampli- tude.	Duration	Remarks
653	Oct. 10	H. M. 13 0'8	H. M. 13 8'4	MM. 1'2	H. M. 1 0	Origin N.E. Japan.
654	" 12	0 58'0	0 58'8	1'6	25	
655	" 14	3 47'2	3 49'5	0'8	7	Origin near Tokyo.
656	" 24	15 2'6	15 20'6	1'8	1 20	
657	Nov. 8	0 42'1	0 42'6	7'0	50	
658	" 8	17 50'5	17 51'9	1'6	25	
659	" 14	17 55'9	18 7'9	2'6	1 10	
660	" 16	15 45'8	15 47'8	0'5	15	
661	" 19	7 29'4	7 41'4	1'2	2 10	
662	" 23	6 32'6	6 32'9	1'6	8	
663	" 25	7 35'9	7 39'9	1'1	1 0	
664	" 29	5 9'7	5 9'7	0'4	6	
665	Dec. 1	2 23'2	2 23'2	0'3	3	---
666	" 1	3 13'4	3 13'4	0'4	3'5	
667	" 1	4 21'4	4 21'4	0'5	4	
668	" 12	4 13'2	4 15'2	1'5	2'5	

Mean scale value 1mm. = 0".59 of arc.
1mm. amplitude = 0".59.Register from Perth Observatory, Western Australia.
Director, W. E. COOKE, M.A., F.R.A.S., &c.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Remarks.
1906.							
	July 2	H. M. 12 15'0	H. M. —	H. M. —	H. M. 13 45'0	MM. —	Displacement of boom.
1	" 10	19 59'3	20 2'0	20 8'4	20 24'6	0'6	---
2	" 12	10 29'0	10 31'8	10 33'0	10 45'2	0'5	---
	" 14	1 25'0	---	---	5 15'0	---	Several small tremors.
	" 15	0 30'0	---	---	16 20'0	---	Frequent small tremors.
3	" 15	16 24'5	16 28'3	16 31'3	16 49'3	0'7	---
	" 15	16 55'0	---	---	0 0'0	---	Frequent small tremors.
	" 16	0 0'0	---	---	0 0'0	---	" "
4	" 17	15 26'5	15 29'5	15 30'3	15 52'8	0'8	---
5	" 18	19 56'1	19 56'8	19 59'1	20 17'9	0'8	---
6	" 19	7 59'4	8 6'5	8 8'5	8 21'2	0'6	---
7	" 23	6 15'9	6 27'4	6 30'9	6 54'9	1'5	---
	" 24	1 0'0	---	---	3 30'0	---	Several small tremors.
	" 25	16 30'0	---	---	0 0'0	---	Frequent small tremors.
	" 26	0 0'0	---	---	0 0'0	---	Very frequent small tremors.
	" 27	0 0'0	---	---	0 0'0	---	" "
	" 28	0 0'0	---	---	11 30'0	---	" "
	" 28	11 30'0	---	---	0 0'0	---	Very small tremors

Register from Perth Observatory, Western Australia—continued.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Remarks
8	July 29	H. M. none	H. M. 22 12'0	H. M. 22 17'0	H. M. 23 38'0	MM. 0'5	Displacement of boom.
	Aug. 1	12 35'0	---	---	13 45'0	---	
9	" 3	1 0'0	---	---	5 30'0	---	Very small tremors.
10	" 4	7 19'9	8 43'9	8 46'9	9 31'0	0'4	---
	" 5	1 49'6	---	2 4'9	2 14'3	0'2	---
No record Aug. 5, 1906, 21h. 0m., to Aug. 6, 1h. 25m.							
	" 6	1 30'0	---	---	0 0'0	---	Small tremors at intervals.
11	" 8	4 4'5	4 19'6	4 20'3	5 2'3	0'6	---
12	" 8	5 7'8	---	7 34'2	7 56'3	0'4	---
13	" 9	11 19'5	11 26'2	11 29'5	11 43'9	0'6	---
14	" 12	6 37'2	6 44'5	6 46'7	7 13'5	0'55	---
15	" 16	10 20'2	10 26'0	10 27'2	10 46'7	0'4	---
16	" 17	0 31'4	1 46'3	2 1'4	5 32'0	7'5	Chilian earthquake.
	" 18	0 30'0	---	---	4 35'0	---	Small tremors.
17	" 18	5 7'0	7 26'9	7 31'4	8 12'2	0'8	---
	" 19	4 30'0	---	---	6 15'0	---	Constant small tremors.
	" 19	10 35'0	---	---	10 45'0	---	Small tremors.
	" 22	16 30'0	---	---	0 0'0	---	Few very small tremors.
	" 23	0 0'0	---	---	16 30'0	---	Frequent very small tremors.
18	" 23	16 39'6	16 45'6	16 46'6	17 14'1	0'7	---
	" 23	17 17'0	---	---	0 0'0	---	Frequent very small tremors.
	" 24	0 0'0	---	---	0 0'0	---	Frequent small tremors.
	" 25	0 0'0	---	---	14 0'0	---	" "
19	" 25	14 9'9	14 31'6	14 38'0	15 22'3	1'0	---
20	" 26	6 8'1	6 14'2	6 25'4	8 25'6	8'25	---
	" 26	23 30'0	---	---	0 0'0	---	Constant small tremors.
	" 27	0 0'0	---	---	0 0'0	---	" "
	" 28	0 0'0	---	---	0 0'0	---	" "
	" 29	0 0'0	---	---	4 30'0	---	" "
	" 30	0 40'0	---	---	3 50'0	---	" "
21	" 30	3 51'8	3 56'8	3 58'0	4 51'0	0'5	---
No record from Aug. 31, 1906, 17h. 30m., to Sept. 3, 1h. 25m.							
	Sept. 5	0 30'0	---	---	1 33'0	---	Constant very small tremors.
22	" 6	19 12'1	---	19 38'0	20 1'6	0'5	---
23	" 7	none	19 13'0	19 50'5	21 4'9	0'7	---
No record from Sept. 14, 1906, 7h. 15m., to Sept. 15, 2h. 0m.							
	" 15	2 0'0	---	---	7 0'0	---	Frequent small tremors.
24	" 15	12 28'2	12 33'7	12 34'5	12 49'7	0'5	---
25	" 16	---	4 21'0	4 23'0	4 41'0	0'5	---

Register from Perth Observatory Western Australia—continued.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Remarks.
		H. M.	H. M.	H. M.	H. M.	M.M.	
	Nov. 29	1 45.0	—	—	4 0.0	—	Few very small tremors.
	" 29	20 25.0	—	—	21 40.0	—	Small tremors.
	" 30	18 45.0	—	—	0 0.0	—	Few very small tremors.
	Dec. 1	0 0.0	—	—	0 0.0	—	Occasional very small tremors.
	" 10	7 13.8	—	—	7 18.7	—	Small tremors.
	" 16	21 0.0	—	—	0 0.0	—	Very small tremors.
	" 17	0 0.0	—	—	0 0.0	—	Frequent tremors all day.
54	" 18	0 0.0	—	—	6 0.0	—	" "
	" 18	21 10.3	21 38.5	21 40.3	22 57.8	1.8	" "
	" 18	23 3.0	—	—	0 0.0	—	Small tremors.
	" 19	0 0.0	—	—	1 25.0	—	" "
55	" 19	1 25.2	1 50.2	1 55.3	3 35.0	5.5	" "
56	" 22	18 33.2	18 43.5	19 12.8	21 1.8	1.0	" "
	" 23	17 0.0	—	—	0 0.0	—	Constant tremors.
	" 24	0 0.0	—	—	5 0.0	—	Constant very small tremors.
57	" 26	7 23.3	7 31.8	7 33.8	9 5.3	0.3	" "

Register from the Magnetic Observatory, Christchurch, New Zealand.
Observer, HENRY F. SKEY, B.Sc.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906.								
		H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
	Jun. 3	2 03.7	—	2 09.9	—	0.4	1 10.4	—
	" 4	4 08.7	—	4 33.5	—	0.3	0 50.7	—
	" 18	1 35.3	—	—	—	—	0 27.9	Thickening of line.
	" 22	4 16.9	—	4 23.1	—	1.5	0 45.5	—
	" 24	7 46.2	—	—	—	—	0 40.1	Thickening of line.
	" 24	22 01.2	—	22 04.3	—	0.4	Indefinite	Ended between 22h. 00.4m. and 22h. 13.6m. while attending to instrument.
	" 25	1 53.9	—	—	—	—	0 15.5	Slight thickening.
	" 30	—	—	23 00.5	—	—	—	Slight swelling.
	" 31	Indefinite	16 03.0	16 42.0	18 32.0	15.5	Indefinite	P.T.'s and A.T.'s obscured by night tremors.
	Feb. 1	2 30.9	2 36.1	2 39.2	2 49.5	2.95	1 08.3	—
				to	2 42.3			
	" 2	6 21.6	—	—	—	—	0 18.6	Thickening of line.
	" 3	4 29.1	4 33.2	4 34.3	4 37.4	3.45	1 11.9	—
	" 8	0 20.7	—	—	—	—	0 51.7	Thickening of line.
	" 10	9 16.3	—	9 29.7	—	—	0.4	—
	" 12	6 46.2	6 49.3	6 53.4	6 54.4	1.5	0 51.7	—
	" 14	0 40.7	—	0 45.9	—	—	1.0	—
	" 16	23 28.7	23 32.8	23 38.0	23 41.1	1.4	0 55.8	—

Register from the Magnetic Observatory, Christchurch, New Zealand—continued.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude.	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
	Feb. 19	2 07.2	2 12.4	(a) 2 22.7 to 2 26.7 (b) 2 24.1 to 2 25.3	3 18.6	17.0 +	2 54.3	—
	" 20	6 07.2	—	—	—	0.2	0 14.6	—
	Mar. 3	Indefinite	—	—	—	0.7	Indefinite	P.T.'s and A.T.'s obscured by N.T.'s.
	" 8	21 27.5	—	21 32.7	—	0.5	0 09.3	—
	" 9	Indefinite	—	19 32.6	—	5.4	Indefinite	P.T.'s and A.T.'s obscured by N.T.'s.
	" 10	6 49.8	6 48.1	6 51.2	7 08.7	5.3	Indefinite	A.T.'s obscured by N.T.'s.
	" 10	Indefinite	16 33.6	16 35.7	17 06.7	8.5	Indefinite	P.T.'s and A.T.'s obscured by N.T.'s.
	" 11	3 35.7	—	3 38.8	—	0.83	0 36.1	—
	" 11	8 49.1	—	8 52.2	—	0.9	0 20.0	—
	" 11	Indefinite	—	21 52.4	—	0.5	Indefinite	P.T.'s and A.T.'s obscured by N.T.'s.
	" 20	2 24.8	—	2 34.1	—	0.45	Indefinite	—
	" 20	3 31.0	—	3 32.5	—	0.73	0 56.2	—
				to				
	" 22	1 17.5	—	1 18.5	—	1.6	0 06.2	Sharp, sudden.
	" 27	5 41.0	—	5 47.2	—	0.5	0 10.3	—
	" 28	Indefinite	18 13.9	18 18.0	18 40.8	4.8	Indefinite	P.T.'s and A.T.'s obscured by continuous tremors.
	Apr. 14	4 02.9	4 07.5	4 11.1 to 4 11.6	4 34.4	17.0 +	1 56.3	Origin New Hebrides.
	" 18	13 33.6	14 01.0	14 30.0	15 05.2	6.8	3 21.2	San Francisco quake. Subsequent tremors at 17h. 17.6m., 13h. 10.7m. and 19h. 20.7m.
	" 19	6 15.4	6 21.6	7 10.3	7 25.7	7.0	4 09.2	—
	" 29	6 44.9	—	6 47.0	—	0.4	0 38.5	—
	May 2	13 18.1	—	13 24.8	—	1.4	0 41.4	—
	" 12	8 11.5	—	8 18.1	—	0.45	0 20.7	—
	" 13	—	—	12 01.3	—	0.55	—	Small and in middle of N.T.'s.
	" 15	—	—	13 23.2	—	0.5	—	" "
	" 17	5 28.4	—	5 34.6	—	1.2	0 42.4	—
	" 18	23 41.9	—	23 43.9	—	0.9	0 27.9	—
	" 19	0 41.9	—	0 43.9	—	0.45	0 21.7	—
	" 19	2 31.5	—	2 32.6	—	0.4	0 25.9	—
	" 19	—	—	11 38.8	—	0.8	—	In middle of continuous T's.
	" 21	12 58.8	—	13 16.9	—	1.0	0 45.5	—
	June 1	4 40.2	5 01.4	5 02.9 to 5 19.5	5 44.3	3.5	3 03.1	—
	" 2	4 29.8	—	4 34.6	—	0.5	0 55.9	—
	" 2	6 28.8	—	—	—	—	0 17.6	Thickening of line.
	" 2	14 43.2	—	14 48.4	—	0.9	Indefinite	A.T.'s obscured by N.T.'s.
	" 3	0 28.0	—	0 32.2	—	0.5	0 45.6	—
	" 6	0 00.1	—	—	—	—	0 40.0	Very slight.
	" 9	23 18.6	—	—	—	—	0 04.3	Very slight thickening.
	" 22	—	—	12 35.2	—	0.4	Indefinite	In middle of N.T.'s.
	" 24	7 38.1	—	7 49.5	—	0.35	0 24.9	—
	" 30	10 21.5	—	—	—	—	0 05.2	Thickening merely.