

## British Association for the Advancement of Science.

Circular No. 14, 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>	61
II. <i>Registers from:—</i>	
<i>Shide, Isle of Wight, England (January 2 to June 27, 1906, Nos. 1105 to 1213)</i>	62
<i>Kew, England (January 21 to June 27, 1906, Nos. 661 to 703)</i>	67
<i>Bidston, England (January 2 to June 27, 1906, Nos. 733 to 830)</i>	69
<i>Edinburgh, Scotland (January 1 to June 26, 1906, Nos. 398 to 436)</i>	70
<i>Paisley, Scotland (January 2 to June 24, 1906, Nos. 293 to 339)</i>	71
<i>San Fernando, Spain (January 6 to June 30, 1906, Nos. 474 to 551)</i>	73
<i>Cape of Good Hope (January 21 to June 24, 1906, Nos. 339 to 351)</i>	74
<i>Ponta Delgada, Azores (January 21 to June 29, 1906, Nos. 162 to 185)</i>	75
<i>Toronto, Canada (January 6 to June 30, 1906, Nos. 620 to 687)</i>	76
<i>Victoria, B.C., Canada (January 6 to June 24, 1906, Nos. 639 to 697)</i>	77
<i>Alipore, Calcutta (January 6 to June 29, 1906, Nos. 394 to 436)</i>	79
<i>Bombay (January 6 to June 24, 1906, Nos. 18 to 527)</i>	80
<i>Kodaikāni, Madras (January 6 to June 24, 1906, Nos. 1 to 40)</i>	81
<i>Batavia, Java (January 15 to June 30, 1906, Nos. 758 to 857)</i>	82
<i>Cairo, Egypt (January 21 to June 24, 1906, Nos. 276 to 291)</i>	84
<i>Cordoba, Argentina (July 1, 1904, to January 19, 1905, Nos. 1039 to 1122)</i>	85
<i>Pilar, Cordoba (March 2 to December 29, 1905, Nos. 4 to 192)</i>	86
<i>Beirut, Syria (January 6 to June 29, 1906, Nos. 153 to 195)</i>	89
<i>Baltimore, Md., U.S.A. (January 3 to February 19, 1906)</i>	90
<i>Trinidad (January 25 to June 30, 1906, Nos. 292 to 336)</i>	90
<i>Honolulu (April 3, 1903, to June 27, 1904, Nos. 1 to 66)</i>	91
<i>Perth, W. Australia (January 3 to June 28, 1906, Nos. 1 to 53)</i>	95
<i>Christchurch, New Zealand (July 1 to December 28, 1905)</i>	98
<i>Mauritius (October 1, 1903, to December 19, 1905, Nos. 410 to 553)</i>	99

### I. *General Notes on Registers from Similar Horizontal Pendulums (Milne Type).*

The following registers are continuous with those published by the Seismological Investigation Committee in their first thirteen 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, SHINBU HIROTA.

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 17 seconds. 1° turn = 4 mm.

B. Period 25 seconds. 1° turn = 9 mm.

C. Period 20 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

P<sub>1</sub> = Preliminary tremors. p. = maximum period. d. = duration.  
a = amplitude. A<sub>ts.</sub> = Air tremors.

No.	Date	Commence- ment		Max.	Max. Ampli- tude	Dura- tion	Remarks	
		H.	M.					
<b>1906.</b>								
1105	Jan. 2	H.	M.	H.	M.	H.	M.	
		4	33.7	—	—	0.2	0 3	B.
1106	" 2	"	"	—	—	0.5	0 5	C. Not on A.
		13	49.9	—	—	0.2	0 10	B. " " "
1107	" 3	"	"	—	—	0.2	0 3	C.
		3	12.9	—	—	0.3	0 18	C only.
1108	" 4	3	47.4	—	—	0.2	0 5	B. "
1109	" 4	5	31.4	—	—	0.3	0 7	C. "
1110	" 10	"	"	—	—	0.2	0 53	A.
		13	46.8	13	57.1	0.5	0 23	B and C.
1111	" 21	"	"	—	—	1.4	11.7	A. P <sub>1</sub> = 9.3m.
		14	2.7	14	38.6	2.0	1 32	B. P <sub>1</sub> = 8.5m.
1112	" 24	"	"	—	—	2.0	1 35	C. P <sub>1</sub> = 9m.
		21	58.7	"	"	0.3	0 29	A.
		22	13.9	22	24.2	0.5	0 20	B.
		22	17.0	22	21.1	0.5	0 15	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.			
1113	Jan. 25	2	0·0	—	—	0·2	0 1	A.
		2	0·9	2	6·1	0·5	0 10	C. B slight tremors.
1114	" 26	0	26·0	—	—	0·2	0 31	A. 3 groups 6m. apart.
		0	27·3	—	—	0·1	0 5	B. For C a. = 0·2.
1115	" 27	10	19·3	10	45·0	1·0	2 30	A. P <sub>1</sub> = 6m. 20s. p. = 16s.
1116	" 28	15	19·6	—	—	0·2	0 49	A.
		15	27·2	—	—	0·1	0 5	B.
		15	29·3	—	—	0·2	0 16	C.
1117	" 31	14	59·7	—	—	0·2	0 5	B and C.
1118	" 31	15	48·8	16	28·4	>20·0	5 5	A.
		15	47·3	16	11·1	>17·0	4 20	B and C.
				16	20·0			
1119	" 31	22	14·2	—	—	0·2	0 5	B and C.
1120	Feb. 1	2	51·9	3	6·6	0·5	1 45	A.
				3	2·7	0·5	1 30	B.
		2	51·3	"	"	"	0 57	C.
1121	" 2	0	2·0	—	—	0·2	0 5	A. Not on C.
		0	3·1	—	—	0·1	0 5	B.
1122	" 2	17	8·0	—	—	0·2	1 48	A.
		17	21·0	17	34·3	0·5	0 35	B.
				17	34·2	0·3	0 20	C.
1123	" 3	23	0·0 abt.	—	—	4·0	—	B and C. Ats.
1124	" 5	—	—	5	51·6	—	0 50	a. for B 0·3, for C 0·5. Ats. A not working.
1125	" 12	14	35·2	—	—	0·1	0 5	B. Not on A or C.
1126	" 16	16	56·8	17	59·0	0·4	2 0	B.
		18	3·4	—	—	0·2	0 20	C. A not working.
1127	" 17	—	—	1	33·2	—	—	B. Ats.
		1	44·4	—	—	0·3	0 32	C. A not working.
1128	" 19	2	22·6	—	—	0·2	2 13	A.
		2	21·9	3	8·1	2·5	2 0	B.
		2	21·9	3	19·3	2·0	2 40	C.
				4	0·3	—	—	
1129	" 23	7	50·6	—	—	0·2	0 5	C. Not on B. A not working.
1130	" 24	1	14·6	—	—	0·2	0 5	B. Slight Ats.
		1	2·6	1	9·6	0·2	0 5	C. " " A has Ats. " A
1131	" 26	14	4·4	—	—	0·1	0 3	B and C. A not working.
1132	" 26	23	33·1	23	40·0	0·5	0 12	C. B just visible. A not working.
1133	" 27	20	4·0	20	17·0	0·5	0 30	B.
		20	0·3	20	16·7	1·0	0 45	C. A not working.
1134	" 28	13	49·4	—	—	0·3	0 44	A.
		13	54·1	—	—	0·2	—	B. Ats.
		13	54·1	—	—	0·3	0 8	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.			
1135	March 2	6	24·5	6	50·5	2·0	1 24	A.
		6	34·4	6	44·0	1·0	0 25	B.
		6	32·0	6	42·0	2·0	0 30	C.
1136	" 8	17	36·5	17	56·2	1·5	1 8	B.
		17	52·1	17	53·5	1·0	0 38	C. A not working.
1137	" 9	20	43·7	—	—	0·5	0 40	C. For B a. = 0·2. A not working.
1138	" 10	—	—	8	6·5	1·5	0 35	C. B invisible. A not working.
1139	" 10	16	55·2	—	—	0·2	0 58	B. " " "
1140	" 11	17	5·5	17	52·1	0·5	1 25	C. " " "
		3	34·5	3	38·6	0·2	0 18	B. " " "
		3	26·2	3	41·7	0·3	0 24	C. " " "
1141	" 11	10	46·4	—	—	0·2	0 5	B. " " "
		10	4·0	—	—	0·2	0 5	C. " " "
1142	" 13	13	14·7	—	—	0·2	0 3	C only. "
1143	" 13	13	32·1	13	36·2	0·5	0 10	B. " " "
		13	23·9	13	28·1	0·7	0 45	C. " " "
1144	" 16	20	36·9	—	—	0·2	0 13	A.
		20	36·4	—	—	—	—	C. B with Ats.
1145	" 16	23	4·5	23	40·7	2·0	1 14	A.
		23	3·7	23	32·8	2·0	1 20	B with Ats.
		23	3·7	23	40·6	2·6	1 21	C.
1146	" 19	8	10·4	—	—	1·5	—	B with Ats.
		8	12·7	—	—	1·6	—	C. " " " A not working.
1147	" 20	—	—	4	10·5	—	—	B with Ats. A not working.
1148	" 20	4	10·5	4	16·6	0·5	0 30	C with Ats.
		15	10·5	15	36·7	0·2	0 5	B and C. A not working. On B thickenings to 16h. 16m.
1149	" 24	1	46·4	—	—	0·2	0 3	B. A not working.
1150	" 26	1	56·6	—	—	0·2	0 3	C.
		4	5·9	4	28·0	0·3	0 54	A.
		4	22·8	—	—	0·2	0 5	C. On B Ats.
1151	" 26	10	56·6	—	—	0·2	0 5	C. " " " A not working.
1152	" 27	5	50·0	—	—	0·2	0 30	A.
		5	22·8	5	56·6	1·0	1 25	C. On B Ats.
1153	" 27	23	45·6	—	—	0·2	0 9	A.
		23	43·2	—	—	0·2	0 5	B and C. Ats. on B.
1154	" 28	19	17·0	—	—	0·2	—	A.
		19	41·0	—	—	—	—	
1155	" 28	19	18·6	—	—	0·3	0 25	B. Not on C.
		21	7·2	—	—	0·2	0 10	A.
		21	5·2	—	—	0·2	0 6	B.
		21	7·3	—	—	0·2	0 6	C.
1156	" 29	21	7·0	—	—	0·3	0 37	A.
		22	36·8	—	—	0·3	0 5	B. Not on C.
1157	April 2	6	10·0	—	—	0·2	1 47	A. Intermittent tremors.

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

No.	Date	Commencement		Max.	Max. Amplitude		Duration	Remarks.
		H. M.	H. M.		MM.	H. M.		
1158	April 4	15	5.0	—	0.2	0 31	A.	
1159	" 5	3	48.0	—	0.2	0 4	A.	
		3	32.8	—	0.2	0 15	B.	
		3	38.0	—	0.3	0 14	C.	
1160	" 5	23	35.0	—	0.2	0 20	A.	
		23	40.0	—	0.3	0 6	B.	
		23	34.7	—	0.3	0 25	C.	
1161	" 6	17	8.0	—	0.2	0 34	A.	
		17	3.1	—	0.2	0 27	B.	
		16	6.1	—	0.2	0 15	C.	
1162	" 7	23	32.0	—	0.2	0 19	A.	
		23	30.7	—	0.2	0 10	B.	
		23	32.8	—	0.2	0 6	C.	
1163	" 8	18	16.0	—	0.2	0 40	A.	
		18	22.5	—	0.7	0 40	B.	
		18	24.6	—	0.7	0 38	C.	
1164	" 10	21	38.1	22 11.4	9.0	2 54	A.	
		21	45.0	22 2.4	7.0	1 42	B.	
		21	45.0	22 10.7	6.0	1 42	C.	
1165	" 12	15	59.0	17 11.0	0.5	2 2	A. Eqke.?	
1166	" 13	19	42.2	20 18.1	2.0	0 53	B.	
		19	42.2	20 9.9	2.5	0 53	C.	
1167	" 14	0	42.2	0 44.2	1.0	0 25	B.	
		0	35.0	0 44.2	1.5	0 30	C.	
1168	" 14	4	27.8	—	0.5	—	B with Ats.	
		4	20.6	5 52.2	1.5	—	C " "	
1169	" 16	16	52.6	—	0.2	0 14	B only.	
1170	" 18	13	23.7	13 58.2	20.0	4 23	A. p. 20s. B and C lost.	
		13	25.0	13 58.0	70.0	2 30	N.S. component on smoked paper.	
1171	" 19	—	—	1 15.0	0.5	—	A with Ats.	
1172	" 23	1	14.6	—	0.2	0 10	B and C.	
		9	30.9	9 57.1	1.7	2 22	A.	
		9	46.3	9 56.6	1.0	0 25	B. For C d. = 22m., a. = 0.5	
1173	" 23	17	25.0	—	0.2	0 3	A only.	
1174	" 24	9	14.0	—	0.3	0 6	" "	
1175	" 25	2	7.0	—	0.5	1 0	A.	
1176	" 25	2	33.0	2 45.2	0.3	0 20	B. Not on C.	
1177	" 25	9	5.0	—	0.2	0 30	A. Eqke.?	
1178	" 26	11	3.0	11 18.0	0.5	0 28	A.	
1179	" 27	11	11.4	—	0.2	0 5	B only. Eqke.?	
1180	" 27	9	49.0	—	0.2	0 6	A.	
		9	49.3	—	0.2	0 5	B and C.	
		15	10.0	—	0.2	0 3	A.	
1181	" 29	15	11.4	—	0.2	0 5	B and C.	
		16	53.0	—	0.2	1 6	A.	
		16	56.5	17 30.3	0.5	9 45	B.	
1182	May 2	16	56.5	17 27.3	1.0	0 52	C.	
		1	51.0	2 14.0	1.0	0 55	A.	
		2	4.1	2 13.3	1.0	0 24	B.	
1183	" 5	1	57.5	2 12.9	1.0	0 28	C.	
1184	" 12	0	45.1	—	0.2	0 5	C. On B Ats.	
		6	26.7	6 30.8	0.5	0 15	B.	
		6	26.7	6 31.8	1.0	0 25	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. M.		
1185	May 12	10	51.0	11 36.0	0.7	1 20	A.	
		11	20.5	11 32.8	0.7	0 35	B and C.	
1186	" 14	14	17.0	—	0.2	0 18	A.	
		14	0 to 15 30	—	—	—	Thickenings on B. Not on C.	
1187	" 18	15	34.0	—	0.2	0 6	A.	
1188	" 25	15	36.2	—	0.2	0 3	B. Not on C.	
		14	13.0	—	—	0 30	A. Intermit. tremors.	
1189	" 26	14	38.9	—	0.2	0 5	B.	
		2	43.1	—	0.2	0 3	B only.	
On A only slight tremors, each group with d. = 5min. and a. = 0.2mm., are shown at the following times 23d. 20.27--24d. 7.21, 9.2, 11.46 and 15.52--25d. 7.35 and 14.40--26d. 11.24--28d. 9.34.								
1190	June 1	4	37.0	5 54.0	3.0	> 2 30	A with Ats.	
1191	" 2	4	51.7	5 54.0	0.5	> 1 50	B.	
		4	39.3	5 39.3	4.0	> 2 30	C " "	
		15	33.0	15 45.0	0.2	0 30	A " "	
1192	" 6	15	6.2	15 37.2	0.3	0 60	C. Not on B.	
1193	" 7	4	4.1	—	0.2	0 3	B. Ats. on A.	
		3	3.0	—	0.2	0 38	A.	
		3	6.2	—	0.1	0 3	B. On C d. = 12, a. = 0.5.	
1194	" 8	7	32.5	—	0.1	0 4	A.	
1195	" 10	21	11.9	21 48.9	0.2	1 10	A. Eqke.?	
1196	" 11	7	12 to 11 42	—	—	—	A. Intermit. tremors.	
		14	21 to 14 29	—	—	—	A. " "	
		7	15 to 8 0	—	—	—	A. " "	
		7	14 to 8 0	—	—	—	A. " "	
		12	43 to 12 55	—	—	—	A. " "	
		15	9 to 16 33	—	—	—	A. " "	
1197	" 19	11	5.7	—	0.2	0 7	A.	
1198	" 19	11	25.7	—	0.2	0 11	A.	
1199	" 19	11	47.7	12 20.0	1.5	2 10	A.	
		11	51.9	12 20.6	1.0	1 0	B. On C d. = 1h.15m., a. = 2.0.	
1200	" 19	15	41.0	—	—	0 8	A.	
1201	" 19	17	22.2	—	0.1	0 3	B only.	
1202	" 19	18	14.7	—	0.2	0 19	A.	
		18	21.1	—	0.2	0 7	B.	
		18	14.0	—	0.2	0 19	C.	
1203	" 20	2	45.5	3 18.5	0.5	1 13	A.	
		2	49.6	3 15.3	0.4	0 54	B. For C d. = 50m.	
1204	" 21	7	15.0	—	0.2	0 36	A. Also at 8.21 and 12.35.	
1205	" 22	3	58.0	—	0.2	0 25	A.	

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

No.	Date	Commence-ment		Max.		Max. Ampli-tude	Dura-tion	Remarks.
		H. M.	M. M.	H. M.	M. M.			
1206	June 22	7	1-0	—	—	0-2	1 30	A. Also 10-56 to 12-10.
		7	48-0	—	—	0-2	0 5	B. Not on C.
1207	" 24	7	46-3	—	—	9-2	0 40	A.
		8	14-8	—	—	0-2	0 5	B. Not on C.
1208	" 24	11	31-3	12	14-0	2-4	2 38	A. p. = 20s.
		11	32-6	12	15-0	1-5	1 30	B.
		11	42-5	12	4-5	0-3	0 55	C.
1209	" 25	9	46-5	—	—	0-2	0 12	A. Also at 14-2. Slight.
1210	" 26	7	39-6	—	—	0-2	0 13	A. Also at 12-52. Slight.
1211	" 26	12	56-4	—	—	0-2	0 14	C. Also 13-35. Slight.
1212	" 26	14	6-7	—	—	0-2	0 3	C.
		14	4-6	—	—	0-2	0 3	B.
1213	" 27	9	45-0	—	—	0-2	0 3	B and C. Origin South Wales. Slight shocks 11 5-9-12 20-3 and 14 5-9.

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.	M. M.	H. M.	M. M.			
<b>1906.</b>								
661	Jan. 21	14	3-7	14	39-8	1-6	1 5	"Repetition" of max. at 14h. 48-5m.
662	" 24	22	14-7	22	16-9	0-5	0 17	—
663	" 27	10	21-4	10	45-4	1-0	0 56	Commencement indefinite.
664	" 28	15	31-0	—	—	0-2	0 5	Ill-defined.
665	" 31	15	48-9	16	25-0	>17-0	3 58	Colombian eqke.
				16	26-5			
				16	29-0			
666	Feb. 1	3	18-5	—	—	0-4	0 9	—
667	" 2	17	41-5	—	—	0-2	0 5	Ill-defined.
668	" 16	18	8-8	—	—	0-2	0 8	"
669	" 19	2	21-5	3	48-3	2-0	2 16	—
670	" 26	14	30-7	—	—	0-2	0 4	Ill-defined.
671	" 26	23	41-0	—	—	0-2	0 8	"

Register from National Physical Laboratory, Kew Observatory—continued.

No.	Date	Commence-ment		Max.		Max. Ampli-tude.	Dura-tion	Remarks.
		H. M.	M. M.	H. M.	M. M.			
672	Feb. 27	20	13-0	20	20-5	0-6	0 20	—
673	" 28	14	2-7	14	6-0	0-4	0 9	—
674	March 2	6	36-6	6	48-7	1-1	0 20	—
675	" 3	9	2-8	9	30-1	1-6	1 1	Movements small after 9h. 36m.
676	" 8	17	53-3	17	54-3	1-0	0 8	—
677	" 10	7	59-2	8	14-3	1-0	0 42	—
678	" 10	17	53-8	—	—	0-4	0 11	—
679	" 11	3	36-0	—	—	0-4	0 12	—
On March 12 and 13 the instrument was affected by a very high tide, flood water lying near the Observatory from W. to ESE. Boom deflected 11mm.								
680	" 16	23	7-0	23	35-7	2-5	1 0	—
681	" 19	8	3-0	8	5-2	1-5	0 25	—
682	" 27	5	54-8	6	1-0	0-5	0 34	—
683	" 27	23	44-3	—	—	0-2	0 6	—
684	April 8	18	26-5	18	32-3	0-9	0 14	—
685	" 10	21	45-8	22	10-8	8-9	2 3	—
686	" 13	20	7-2	20	11-1	1-1	0 50	—
687	" 14	0	42-2	0	45-0	0-5	0 25	—
688	" 14	4	46-0	—	—	0-2	1 19	Series of small movements.
689	" 18	13	25-7	13	57 to 14 2	>17-0	3 46	Californian eqke.
690	" 23	9	31-5	9	56-3	0-8	0 33	—
691	" 23	16	52-8	—	—	0-4	0 4	Seismic character doubtful.
692	" 29	17	25-2	—	—	0-4	0 27	Ill-defined.
693	May 2	2	6-2	2	12-7	0-6	0 15	—
694	" 5	0	45-0	—	—	0-4	0 43	Series of very small movements
695	" 12	6	30-3	6	32-7	0-5	0 20	—
696	June 1	5	3-2	5	46-8	2-0	2 19	—
697	" 7	3	17-7	—	—	0-3	0 7	Ill-defined.
698	" 19	12	3-5	12	25-4	1-5	0 59	—
699	" 20	3	6-5	3	13-5	0-5	0 19	—
700	" 24	7	59-0	—	—	0-2	0 16	Ill-defined.
701	" 24	11	42-3	12	14-2	1-3	1 0	—
702	" 26	12	58-2	—	—	0-2	0 6	—
703	" 27	14	20-8	—	—	0-2	0 5	—

Scale may be taken as 1mm. = 0-55 throughout.

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
<b>1906</b>								
733	Jan. 2	H. M. —	H. M. 4 33.2	H. M. —	H. M. 4 39.0	MM. —	H. M. 0 6	Small.
734	" 6	22 8.0	22 18.3	22 35.5	22 56.0	0.3	0.48	—
735	" 8	—	16 17.8	16 21.2	16 39.7	0.4	0.22	—
736	" 9	—	23 7.7	23 16.2	23 38.7	—	0.31	Small. A.T.preva- lent.
737	" 10	—	13 35.8	13 40.5	14 16.0	—	0.40	—
738	" 18	—	7 36.4	—	7 45.0	—	0.9	—
739	" 18	—	22 42.2	23 0.0	23 17.4	—	0.35	—
740	" 21	14 5.5	14 11.7	14 42.3	15 26.0	1.5	1.21	—
741	" 21	—	16 18.1	—	16 31.0	—	0.13	—
742	" 22	—	—	3 30.0	—	—	—	Doubtful.
743	" 24	—	7 3.8	7 13.3	7 50.0	1.0	0.42	—
744	" 24	—	7 54.2	7 58.8	8 27.1	1.4	0.33	—
745	" 24	—	10 32.0	—	10 37.0	—	0.5	—
746	" 24	—	22 8.3	22 14.8	22 35.3	0.7	0.27	—
747	" 25	—	21 9.0	21 16.4	21 38.3	—	0.29	—
748	" 26	—	0 12.0	—	0 42.0	—	0.80	—
749	" 27	—	10 2.0	10 32.4	1 41.7	0.9	1.40	—
750	" 28	—	15 33.8	15 41.7	15 55.7	0.4	0.22	—
751	" 31	—	14 52.0	15 4.8	15 19.1	0.3	0.27	—
752	" 31	15 46.6	15 50.4	15 23.0	—	—	—	Exceeded width of paper. Boom held under watch hand A.T. noticeable.
753	Feb. 1	—	23 48.0	0 9.7	1 10.0	—	1.22	—
754	" 2	—	16 28.0	16 38.0	17 25.7	0.5	0.56	—
755	" 3	—	4 33.0	—	4 44.0	—	0.11	—
756	" 4	—	7 10.0	7 17.2	7 28.0	0.2	0.16	—
757	" 7	—	14 43.4	—	14 58.2	—	0.13	—
758	" 8	—	0 41.1	0 48.0	1 0.9	—	0.20	—
759	" 16	—	18 3.4	18 10.5	18 47.2	0.6	0.44	—
760	" 19	2 21.7	2 31.9	3 20.5	5 16.0	1.5	2.54	—
761	" 23	—	15 35.3	16 8.1	16 40.2	0.5	0.45	—
762	" 24	—	0 33.3	0 38.9	1 22.7	0.8	0.49	Perhaps two near- ly coincided.
763	" 26	—	23 34.0	23 39.5	23 54.3	0.2	0.20	—
764	" 27	—	20 10.2	20 21.3	21 8.0	0.4	0.58	—
765	" 28	—	6 53.8	7 4.2	7 23.3	0.2	0.30	—
766	March 2	—	13 56.3	14 3.7	14 27.6	0.2	0.31	—
767	" 2	—	8 37.2	8 45.8	7 22.0	1.0	0.45	—
768	" 3	—	8 1.7	8 28.3	9 35.0	1.2	1.33	—
769	" 5	—	9 25.0	—	9 34.2	—	0.9	Small.
770	" 8	—	17 52.5	17 55.8	18 33.0	1.7	0.41	End uncertain.A.T.
771	" 10	—	13 18.8	—	13 28.0	—	0.9	Slight disturbance.
772	" 10	17 41.7	17 46.0	17 55.3	18 39.0	0.7	0.57	—
773	" 11	—	3 35.1	3 41.4	4 5.5	0.3	0.30	—
774	" 13	—	14 10.2	14 19.3	15 13.0	0.5	1.3	—
775	" 16	—	9 59.0	10 1.8	10 8.7	—	0.10	Small.
776	" 16	—	20 32.9	20 39.7	21 4.0	0.2	0.31	—
777	" 19	—	8 0.2	8 6.5	9 28.6	2.0	1.26	—
778	" 20	—	4 6.7	4 13.4	4 56.8	0.3	0.50	—
779	" 22	—	0 46.3	0 55.0	1 14.0	0.2	0.28	—
780	" 24	—	1 43.3	—	2 3.0	—	0.20	—
781	" 26	—	4 14.9	4 18.8	4 31.2	0.3	0.16	—
782	" 27	—	5 49.5	5 58.0	6 34.5	0.4	0.45	—
783	" 27	—	23 42.9	23 50.5	0 13.0	0.2	0.29	—
784	" 28	—	17 46.8	17 54.2	18 20.5	0.2	0.34	Some disturbance continued till 20h. 25m.
785	April 5	—	3 43.3	3 48.8	4 1.2	0.2	0.18	—
786	" 5	—	21 50.0	—	22 4.0	—	0.8	Doubtful. A.T.?
787	" 7	—	5 40.7	5 52.3	—	—	—	End uncertain.
788	" 7	—	23 27.0	23 32.4	23 50.5	0.3	0.24	—
789	" 8	—	18 22.2	18 30.0	19 2.0	0.4	0.40	—
790	" 10	21 45.2	21 55.5	22 5.9	23 35.0	5.4	1.50	—
791	" 10	—	23 50.2	23 54.0	0 13.5	0.3	0.23	—
792	" 13	—	18 11.5	—	18 19.0	—	0.7	—
793	" 13	19 47.2	20 0.0	20 8.2	22 33.5	2.0	2.46	—
794	" 14	—	0 37.8	0 42.3	1 14.0	1.0	0.36	Disturbance at 2h. 8m.
795	" 18	1 23.7	1 34.4	1 58.0	5 30.0	—	4 6	Exceeded width of paper.

Register from Liverpool Observatory, Bidston—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
796	April 18	H. M. —	H. M. 6 47.5	H. M. —	H. M. 6 56.0	MM. —	H. M. 0 8	Repetitions.
797	" 18	—	8 19.0	—	8 24.0	—	0 5	
798	" 19	—	7 13.8	—	7 26.5	—	0 13	
799	" 19	—	8 13.0	8 29.4	9 7.0	0.2	0 55	
800	" 23	—	9 29.1	9 52.3	10 18.0	0.8	0 49	
801	" 25	—	2 30.0	2 38.6	2 58.0	0.2	0 28	
802	" 29	—	3 58.9	—	4 18.3	—	0 19	
803	" 29	—	17 22.5	17 33.1	17 59.5	0.1	0 37	
804	May 2	—	2 3.3	2 11.8	2 34.0	0.2	0 31	
805	" 5	—	0 8.0	0 44.2	1 4.0	0.3	0 57	
806	" 5	—	1 6.5	1 14.7	2 33.0	0.4	1 20	
807	" 6	—	18 16.7	18 29.5	18 28.0	—	0 11	
808	" 12	—	6 29.8	6 29.0	7 5.7	0.3	0 36	
809	" 12	—	11 21.0	11 31.1	12 0.9	0.4	0 40	
810	" 18	—	21 55.4	21 39.2	21 47.5	0.2	0 12	
811	" 19	—	—	19 58.7	—	—	—	Minute.
812	" 21	—	13 52.0	—	14 6.0	—	0 14	
813	June 1	—	4 57.0	5 48.5	7 14.9	2.8	2 17	
814	" 1	—	13 36.7	13 43.8	16 3.8	0.2	0 29	
815	" 2	—	3 19.2	3 18.1	3 37.0	0.3	0 24	
816	" 9	—	12 38.2	—	13 0.0	—	0 22	
817	" 10	—	21 39.1	21 49.3	22 13.7	0.2	0 35	
818	" 15	—	14 33.9	14 40.6	15 0.9	—	0 26	
819	" 16	—	7 43.2	—	7 51.1	—	0 8	
820	" 18	—	12 41.0	12 45.7	13 56.8	0.2	0 16	
821	" 19	11 54.5	12 7.0	12 17.3	13 9.0	2.1	1 15	
822	" 19	—	18 2.8	18 5.4	18 31.7	0.3	0 29	
823	" 20	—	2 47.0	3 14.3	3 41.2	0.4	0 57	
824	" 21	—	10 52.8	10 56.5	11 5.3	0.2	0 12	
825	" 22	—	9 53.9	9 59.0	10 37.8	0.3	0 34	
826	" 23	—	7 57.3	8 1.1	8 14.4	0.2	0 17	
827	" 24	—	8 1.0	—	8 8.0	—	0 7	
828	" 24	—	11 31.3	12 14.9	13 3.8	1.6	1 32	
829	" 24	—	13 48.3	13 51.5	14 7.0	0.4	0 19	
830	" 27	—	9 45.0	—	9 51.8	0.5	0 7	

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
<b>1906</b>								
398	Jan. 1	H. M. —	H. M. 1 15.0	H. M. —	H. M. 2 35.0	MM. —	H. M. 1 29.0	Small zigzags.
399	" 8	—	16 17.0	16 18.5	16 29.0	0.8	0 6.5	
400	" 21	—	14 3.0	—	14 11.5	1.6	1 33.0	
401	" 24	—	7 10.0	—	7 23.0	1.0	1 14.5	
402	" 24	—	22 9.0	—	22 18.0	0.5	0 20.5	
403	" 27	—	9 59.5	—	10 31.5	0.7	1 15.5	
404	" 31	—	15 48.5	16 19.5	16 39.0	0.5	1 7.0	
405	Feb. 1	—	3 0.0	—	3 3.5	0.3	0 32.0	
406	" 19	—	2 31.0	—	3 55.5	1.1	2 17.0	
407	" 23	—	16 0.5	—	16 10.5	0.3	0 34.0	
408	" 27	—	20 6.5	20 15.0	20 22.0	0.8	0 37.5	
409	March 2	—	6 35.5	6 43.5	6 45.0	1.5	1 2.0	
410	" 3	—	9 1.5	9 25.0	9 29.0	1.0	1 7.5	
411	" 8	—	17 54.0	17 53.5	18 5.0	1.6	0 11.0	

## Register from Royal Observatory, Edinburgh—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude.	Duration	Remarks
412	Mar. 16-17	H. M. 23 21-0	H. M. —	H. M. 23 38-5	H. M. 0 11-5	MM. 3-2	U. M. 0 47-5	—
413	" 19	8 1-0	—	8 6-0	8 45-5	2-5	0 43-5	—
414	" 20	4 13-0	—	4 15-0	4 25-0	0-2	0 14-0	—
415	" 26	4 16-5	—	4 23-0	4 28-5	0-2	0 12-0	—
416	" 27	5 58-0	—	6 6-0	6 32-0	0-2	0 34-0	—
417	" 27	10 0-0	—	10 0-5	10 5-0	1-1	0 5-0	Single tremor, probably accidental.
418	" 28	21 4-0	—	21 10-5	21 17-5	0-3	0 13-5	—
419	April 8	18 21-5	—	18 26-0	18 55-0	0-23	0 33-5	—
420	" 10	21 54-0	22 7-0	22 0-5	23 14-0	4-0	1 20-0	—
421	" 13	20 0-5	20 14-0	20 15-5	20 46-0	1-7	0 45-5	—
422	" 14	0 36-5	—	0 49-0	1 3-0	0-8	0 26-5	—
423	" 14	4 33-0	—	4 41-0	6 19-0	0-2	1 46-0	Series of small tremors.
424	" 18	13 23-5	13 50-0	13 55-5	17 8-0	>17-0	3 44-5	Slight tremor 18h. 46m. to 18h. 56m.
425	" 19	1 10-5	—	1 15-0	1 29-5	0-5	0 19-0	—
426	" 19	8 27-0	—	—	8 50-5	—	0 23-5	Very slight tremors.
427	" 23	9 48-0	—	9 52-0	10 8-0	0-5	0 18-0	—
428	May 2	2 40-0	—	2 12-0	2 20-5	0-5	0 14-5	—
429	" 3	0 45-0	—	1 17-0	1 33-0	0-3	0 48-0	—
430	" 12	6 23-5	—	6 38-5	6 44-5	0-2	0 15-0	—
431	June 1	1 59-5	5 40-0	5 45-5	7 16-5	2-6	2 17-0	—
432	" 7	5 16-0	—	5 17-0	5 19-5	0-2	0 3-5	Perhaps A.T.S.
433	" 19	12 0-5	12 15-5	12 17-5	12 56-0	1-5	0 55-5	—
434	" 20	3 3-0	—	3 15-5	4 37-0	0-3	1 34-0	—
435	" 24	11 38-0	12 14-0	12 20-5	13 0-5	0-7	1 22-5	Another max. = 0-7mm. at 12h. 23-5m.
436	" 26	12 48-5	—	12 52-5	12 57-0	1-7	0 8-5	Two tremors of unusual type.

1906, Jan. 23. 1° of footscrew = 3-67mm. at end of boom.

Feb. 5. " = 3-57mm. "

May 29. " = 3-55mm. "

May 31. " = 3-30mm. "

Mean = 3-04 mm.

∴ 1 mm. displacement at end of boom = 0°54 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
<b>1906</b>								
293	Jan. 2	H. M. —	H. M. —	H. M. 4 36	H. M. —	MM. —	H. M. —	Thickening.
294	" 2	11 24	—	—	12 31	—	1 7	"
295	" 5	20 12	—	20 28	21 23	—	1 11	"
296	" 8	—	—	16 17-5	—	2-0	—	Record spoiled.

Jan. 11 to Jan. 21—almost continuous tremors.

## Register from the Coats Observatory, Paisley—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
297	Jan. 21	H. M. 14 1-5	H. M. 14 4-5	H. M. 14 10-5	H. M. 15 44	MM. 1-6	H. M. 1 43	Two abrupt shocks. Wavy movement before 6h. Continued after shocks.
298	" 24	—	—	7 21	—	0-8	—	Thickening.
299	" 24	—	—	7 58-7	—	0-6	—	
300	" 26	—	—	22 15	—	0-5	—	Thickening.
301	" 26	—	—	0 25	—	—	—	
302	" 27	10 1	10 18-5	—	11 50	0-5	1 49	Thickenings continued for hours.
303	Feb. 1	—	15 48-5	—	16 28-6	>17-0	?	
304	" 1	—	—	0 3	—	—	—	Fainter.
305	" 1	—	—	1 42	—	—	—	
306	" 2	11 5	—	6 22	—	—	—	Very faint—continuous waves.
307	" 3	—	—	7 12	—	—	—	
308	" 6	—	—	22 20	—	—	—	Faint. At intervals to 16h. 20m.
309	" 16	—	—	12 0	—	—	—	
310	" 19	—	—	4 25	—	—	—	Faint. Beginning and end doubtful.
311	" 23	16 5	16 9	21 20	—	0-5	—	
312	" 25	—	—	4 1	—	0-6	—	Thickening. Before and after.
313	" 27	—	—	2 20	—	—	—	
314	March 2	—	—	20 16-5	—	—	—	Obscured by tremors.
315	" 3	8 53-5	—	6 50	—	1-2	—	
316	" 8	16 53(?)	—	9 32	10 29	0-7	1 36	Film cut before end
317	" 10	17 55	—	17 56	—	3-8	—	
318	" 10	—	—	18 7	18 52	—	0 57	—
319	" 11	—	—	22 2	—	—	—	
320	" 13	—	—	3 41	—	—	—	—
321	" 15	10 18	—	14 22	—	—	—	
322	" 16	23 26	—	—	12 0	—	1 42	Several movements continued to 17d. 6h.
323	" 18	—	—	—	24 21	1-5	0 55	
324	" 19	8 0-8	8 4-2	22 52-5	—	—	—	Doubtful Tremors.
325	" 20	—	—	8 7-3	—	2-6	0 54	
326	Mar. 29	—	—	4 18	—	0-3	—	Tremors large and frequent from 23rd to 29th.
327	April 2	—	—	21 (?)	—	—	—	
328	" 5	21 (?)	—	4 45	—	—	—	Obscured by tremors.
329	" 8	18 24	—	18 29-5	18 52	0-4	2 (?)	
330	" 10	—	—	22 6-5	—	4-0	0 28	Obscured.
331	" 13	—	—	20 (?)	—	1-0	—	
332	" 18	13 28-2	13 33	13 54	17 27	>17-0	4 4	"
Instrument out of adjustment.								
333	" 23	—	—	9 52	—	—	—	Thickening.
334	" 29	17 29	—	17 36-5	18 15	0-3	0 46	
335	May 12	6 31	—	—	6 47	—	—	Beads. Doubtful.
336	" 12	—	—	11 35	—	—	—	
337	June 1	5 33(?)	—	5 46-5	6 22	1-0	0 49	—
338	" 19	12 8-5	—	12 21-7	12 43	0-6	0 35	
339	" 24	11 41	12 10-5	12 21	13 2-5	1-0	1 21	—

A 4° turn of calibrating screw = 14 mm. displacement of boom. 1 mm. = 0°55.

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.
<b>1906</b>								
474	Jan. 6	H. M. 21 9.7	H. M. 21 23.2	H. M. 21 26.2	H. M. 21 34.7	H. M. 0 39.5	MM. 1.00	
475	" 8	—	16 21.2	16 23.2	16 24.7	0 3.5	1.00	
476	" 10	13 44.2	13 55.2	13 56.7	13 58.7	0 24.5	0.50	
477	" 11	1 44.6	—	—	—	9 19.0	—	Tremors.
478	" 11	20 24.6	—	—	—	12 35.4	—	Tremors.
479	" 12	—	—	—	—	1 18.0	—	Small movements.
480	" 18	3 58.6	—	—	—	0 40.0	—	" "
481	" 20	1 1.0	2 6.9	6 11.5	9 58.5	9 23.5	1.70	
482	" 21	13 13.5	13 19.3	14 2.0	14 6.0	1 18.0	1.50	
483	" 23	—	—	—	—	10 0.0	—	Small movements.
484	" 24	2 24.5	5 49.5	7 19.5	8 24.5	9 0.0	0.85	
485	" 25	—	21 15.5	21 17.5	21 19.5	0 4.0	0.50	
486	" 27	10 19.5	10 21.5	10 30.0	10 52.5	1 50.0	1.50	
487	" 31	15 37.9	15 45.9	16 16.8	18 52.8	4 32.3	17.50	Columbia Eqke.
488	Feb. 1	—	3 5.6	3 10.7	3 20.6	1 10.5	1.00	
489	" 2	17 16.1	—	17 40.1	—	0 27.5	0.50	
490	" 5	1 49.0	5 45.0	5 49.0	5 56.2	9 16.4	0.75	
491	" 6	0 50.2	—	—	—	10 9.1	—	Tremors.
492	" 7	0 29.7	—	—	—	8 0.0	—	" "
493	" 15	2 1.4	—	—	—	7 43.4	—	" "
494	" 19	2 20.2	3 52.7	3 55.8	4 9.0	3 11.7	3.00	
495	" 23	16 8.5	16 13.6	16 20.2	16 21.8	0 31.5	0.80	
496	" 27	20 10.6	20 25.3	20 26.8	20 26.8	1 3.0	0.60	
497	March 1	0 24.8	—	—	—	10 0.0	—	Tremors.
498	" 2	6 24.8	6 53.2	6 54.3	6 54.8	1 0.0	1.30	
499	" 3	9 0.4	9 12.6	9 15.1	9 25.8	1 35.6	0.80	
500	" 5	17 43.1	17 47.2	17 49.2	17 57.3	0 27.6	6.00	
501	" 9	20 43.1	—	—	—	0 35.0	2.00	Small movements.
502	" 10	7 12.6	8 2.9	8 10.6	8 12.6	1 32.5	2.25	
503	" 10	17 9.5	17 49.7	18 10.6	18 13.1	1 19.9	1.25	
504	" 11	3 21.7	3 28.3	3 29.9	3 32.4	0 20.1	0.70	
505	" 13	4 24.8	—	—	—	6 14.2	—	Tremors.
506	" 13	14 17.7	14 21.7	14 23.7	14 35.0	0 22.4	1.00	
507	" 15	2 17.7	—	—	—	6 19.3	—	Tremors.
508	" 16	9 49.2	—	—	—	0 14.2	—	Small movements.
509	" 16	23 10.5	23 39.0	23 41.1	23 57.8	1 15.3	2.25	
510	" 19	8 4.4	8 25.8	8 26.8	8 32.9	0 42.8	0.75	
511	" 20	3 38.3	4 8.5	4 11.1	4 13.6	0 34.0	2.00	
512	" 24	1 56.3	—	—	—	0 8.7	—	Very small move- ments.
513	" 26	4 25.0	—	—	—	0 16.3	—	" "
514	" 27	1 25.0	5 45.3	5 47.9	5 49.4	6 40.7	1.50	
515	" 27	23 45.3	23 50.9	23 53.5	23 56.5	0 21.4	0.50	
516	" 29	22 5.7	—	—	—	0 44.7	—	Small movements.
517	April 8	18 16.0	18 34.1	18 37.2	18 38.7	0 40.5	1.25	
518	" 9	0 48.4	—	—	—	6 30.5	—	Tremors.
519	" 10	1 30.1	—	—	—	6 10.1	—	Tremors.
520	" 10	21 47.4	22 5.2	22 8.2	22 19.4	2 20.3	9.00	
521	" 13	1 31.1	—	—	—	7 54.0	—	Tremors.
522	" 13	19 56.6	20 15.9	20 18.5	20 30.2	0 49.8	1.50	
523	" 14	0 42.4	0 48.5	0 51.5	0 56.6	0 26.9	1.00	
524	" 14	1 56.6	2 3.2	2 4.2	2 6.8	0 16.3	0.50	
525	" 14	3 35.3	4 42.4	4 42.4	5 50.5	3 6.1	1.50	
526	" 18	13 25.1	13 35.3	14 4.2	16 10.9	4 35.6	17.50	California Eqke.
527	" 18	23 27.6	—	—	—	4 50.0	4.50	
528	" 19	—	1 8.8	1 13.4	1 15.9	11 7.7	1.20	
529	" 21	2 8.6	8 24.1	8 28.1	8 29.2	—	1.00	
529	" 22	4 25.1	—	—	—	6 34.7	—	Tremors.
529	" 22	4 25.1	—	—	—	2 21.4	—	Small movements.

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
530	April 23	H. M. 5 16.4	H. M. —	H. M. —	H. M. —	H. M. —	MM. —	Tremors.
531	" 23	9 46.5	9 53.1	9 55.6	10 0.7	0 36.5	2.00	
532	" 24	3 25.1	—	—	—	4 49.8	—	Tremors.
533	" 26	1 25.2	—	—	—	5 0.0	—	" "
534	" 27	2 34.9	—	—	—	5 30.3	—	" "
535	" 29	4 7.9	—	—	—	5 37.6	—	" "
536	" 29	16 53.7	17 22.1	17 25.2	17 33.3	1 3.0	1.75	
537	" 30	23 15.9	—	—	—	10 2.1	—	Tremors.
538	May 1	2 1 32.7	2 10.8	2 13.9	2 20.0	6 22.9	0.70	
539	" 2	0 3.3	0 43.5	1 9.5	1 18.1	1 31.0	0.70	2h.31m. to 6h.37m.
540	" 5	6 19.6	6 34.9	6 44.0	6 46.0	0 12.2	0.75	
541	" 12	11 19.6	11 33.8	11 38.4	11 46.5	0 46.5	0.80	
542	June 1	4 53.6	5 43.8	5 48.6	6 35.7	2 29.6	4.60	
543	" 7	3 15.4	3 19.5	3 21.0	3 24.5	0 17.8	0.50	
544	" 8	1 39.9	—	—	—	3 50.9	—	Tremors.
545	" 10	2 17.1	—	—	—	6 5.4	—	" "
546	" 10	21 41.8	—	—	—	0 47.8	—	Small movements.
547	" 11	3 19.5	—	—	—	2 46.5	—	Tremors.
548	" 19	11 48.2	12 21.2	12 26.8	12 38.0	1 53.9	2.25	
549	" 20	2 15.7	3 2.0	3 6.1	3 16.2	0 46.3	1.85	
550	" 24	11 42.8	12 11.8	12 18.4	12 31.6	2 12.2	1.10	
551	" 30	4 37.2	—	—	—	3 8.3	—	Tremors.

Between 1st January and 19th February Imm. = 0°-20. Period = 21s.  
 " 20th February and 16th March " 0°-64. " 15  
 " 7th March and 15th March " 0°-25. " 20  
 " 16th March and 17th April " 0°-41. " 18  
 " 8th April and 17th April " 0°-34. " 19  
 " 18th April and 30th June " 0°-25. " 20

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.
<b>1906</b>								
339	Jan. 21	H. M. 14 10.3	H. M. —	H. M. —	H. M. —	MM. —	H. M. —	Slight vibrations.
340	" 31	15 36.9	16 27.0	16 34.0	18 20.0	5.0	2 24.0	
341	Mar. 20	3 38.0	—	4 0.0	4 1.0	0.4	0 6.0	Times approx. Watch stopped.
342	Apr. 6	9 30.0	—	—	21 13.0	—	11 45.0	Slight vibrations. Thickening of trace
343	" 11	20 33.0	—	—	—	—	—	
344	" 18	13 32.0	—	14 35.0	15 13.0	0.25	1 41.0	
345	" 27	9 30.0	—	—	—	—	1 0.0	Slight vibrations.
346	" 29	16 38.0	16 48.5	16 51.0	17 36.0	0.7	0 58.0	
347	May 2	32 20.0	—	—	—	4 39.0	6 19.0	Series of slight vi- brations.
348	" 7	9 36.0	—	—	—	—	—	Change of level.
349	June 1	5 0.0	—	—	5 45.0	—	0 45.0	Vibrations.
350	" 22	8 36.0	—	—	8 39.0	0.2	0 3.0	
351	" 24	12 5.5	—	12 19.0	12 47.0	0.6	0 41.5	

Jan. 6, Imm. of boom motion = 0°-20. Boom period = 15 secs.  
 Feb. 3, " " " " " 0°-20. " " " 10 "  
 Mar. 24, " " " " " 0°-21. " " " 10 "  
 Apr. 14, " " " " " 0°-21. " " " 10 "  
 Apr. 28, " " " " " 0°-20. " " " 12 "  
 May 19, " " " " " 0°-18. " " " 13 "  
 June 16, " " " " " 0°-14. " " " 18.5 "  
 June 30, " " " " " 0°-15. " " " 20 "

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

No.	Date	Commence- ment	Max.	Semi- Ampli- tude	Dura- tion	Remarks
<b>1906</b>						
		H. M.	H. M.	MM.	H. M.	
162	Jan. 21	13 53.5	—	—	1 34.3	I. of the Mercalli's scale
163	" 24	7 04.5	—	—	1 24.0	Thickening of line.
	" 27	9 53.7	—	—	1 11.5	Idem—Idem.
164	" 31	15 47.0	15 59.2	8.1	3 27.8	Idem—Idem.
166	Feb. 16	17 47.7	—	—	0 28.7	Idem—Thickening of line.
	" 19	2 24.0	2 31.8	0.7	2 04.6	Idem—Idem.
168	" 27	20 05.0	—	—	0 30.1	Idem—Thickening of line.
	Mar. 2	6 35.3	—	—	0 46.5	Idem—Idem.
	" 3	8 49.9	9 14.0	0.7	1 06.1	Idem.
169	" 8	17 47.3	17 49.6	3.5	1 08.7	Idem.
	" 10	6 56.0	—	—	0 32.0	Idem—Thickening of line.
	" 10	16 49.5	—	—	0 43.6	Idem—Idem.
	" 11	3 28.0	—	—	0 03.0	Idem—Idem.
170	" 19	8 06.4	8 21.2	0.6	0 46.4	Idem.
174	Apr. 10	21 40.7	22 01.2	1.4	1 16.9	Idem.
	" 13	18 05.0	—	—	0 15.7	Idem—Thickening of line.
175	" 18	13 23.6	13 54.6	7.3	3 29.4	Idem.
	" 19	1 05.6	—	—	0 09.9	Idem—Thickening of line.
177	May 5	0 36.2	—	—	0 33.3	Idem—Idem.
179	" 14	22 11.6	—	—	0 12.8	Idem—Idem.
	" 15	0 52.0	—	—	0 02.0	Idem—Idem.
181	June 1	4 49.5	—	—	0 50.5	Idem—Idem.
184	" 22	3 29.0	—	—	0 10.2	Idem—Idem.
184	" 23	14 28.0	14 32.0	0.6	0 12.8	I. of the Mercalli's scale.
185	" 29	16 46.2	—	—	0 03.3	Idem—Thickening of line.

Mean scale value 1mm. = 0".49.

Register from Toronto, Ont., Canada.  
Director, R. F. STUPART, F.R.S.C.

No.	Date	Commence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
<b>1906.</b>								
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
620	Jan. 6	22 17.7	—	—	22 21.4	0.05	0 3.7	Slight thickening.
621	" 10	12 49.2	—	—	12 50.2	0.05	0 1.0	—
622	" 10	13 31.7	—	—	14 22.7	0.30	0 51.0	Very small.
623	" 16	20 27.5	—	—	20 38.0	0.35	0 10.5	Thickening.
624	" 18	7 4.5	—	—	7 13.5	0.10	0 11.0	—
625	" 21	14 14.2	—	14 16.5	16 15.4	1.0	2 1.2	Very small but extended.
		No P.T.,						
		sudden.						
626	" 24	6 59.0	—	7 5.5	8 49.5	2.0	1 50.5	Small. Double disturbance.
627	" 24	10 18.0	—	7 42.0	10 34.5	0.15	0 16.5	Slight thickening.
628	" 24	21 56.8	—	21 59.5	22 53.7	1.60	0 56.9	Small and well defined.
629	" 25	20 Air currents.	—	20 49.3	21 15.0?	0.85	?	Very small.
630	" 27	10 5.8	10 20.3	10 23.8	11 20.3	2.50	1 14.5	Medium.
631	" 31	14 28.2	—	—	14 52.2	0.10	0 24.0	Marked thickening.
632	" 31	15 44.8	15 49.8	16 6.0	20 0.0	20 +	4 15.2	Very large, off the paper (Equator).
633	" 31	20 55.2	—	—	20 55.9	0.05	0 0.7	Thickening.
634	" 31	21 40.3	—	—	21 59.8	0.10	0 18.5	—
635	Feb. 1	2 49.2	—	—	4 0.2	0.30	1 11.0	Very small.
636	" 1	6 53.5	—	—	7 3.5	0.15	0 8.0	Marked thickening.
637	" 1	23 38.5	—	23 49.5	24 7.5	0.20	0 29.0	Very small. Three distinct vibrations.
638	" 2	17 9.3	—	—	18 25.0?	0.15	1 15.5	Marked thickening.
639	" 3	1 8.0	—	—	4 21.0	0.05	0 13.0	Slight thickening.
640	" 3	Lost.	Visitors.	—	21 23.0	—	—	—
641	" 8	1 15.0	—	—	1 35.5	0.05	0 20.5	Thickening.
642	" 10	15 11.3	—	—	15 29.5	0.10	0 18.5	—
643	" 11	3 16.0	—	—	3 19.0	0.07	0 3.0	Brief thickening.
644	" 13	13 17.0	—	—	13 25.0	0.05	0 8.0	Slight thickening.
645	" 13	15 53.0	—	—	15 58.0	0.10	0 3.0	—
646	" 16	17 53.0	Attending inst.	—	18 27.0	—	0 34.0	West Indies.
647	" 19	2 20.8	—	3 37.3	5 10.3	2.0	2 49.5	Medium, extended.
648	" 23	15 59.5?	—	—	16 23.5	0.3	0 24.0	Extended thickening.
649	" 26	Air current.	—	—	21 35.5	0.1	0 53.2	Thickening.
650	" 27	20 42.3	—	—	6 57.0	0.05	0 29.0	—
651	" 28	6 28.0?	—	13 35.0	—	0.10	—	—
652	March 2	Air current.	—	—	7 32.3	0.10	0 17.0	—
653	" 3	8 53.7	8 55.5	8 57.0	10 35.0	18 +	1 42.3	Very large, over scale limit.
654	" 3	20 40.1	—	—	20 43.0	0.10	0 2.9	Thickening.
655	" 10	4 51.0	—	—	4 59.0	0.05	0 8.0	—
656	" 10	7 8.2	—	8 3.2	8 37.2	0.30	1 29.0	Extended oscillations (India).
657	" 10	16 38.2	—	—	18 34.0?	0.05	1 44.0	May be air current.
658	" 16	23 44.0?	—	—	24 5.0	0.10	0 21.0	Thickening.
659	" 17	12 6.5	—	—	12 30.5	0.10	0 24.0	—
660	" 19	8 12.2	—	8 24.0	9 5.7	0.60	0 53.5	Very small and well defined.
661	" 22	19 2.5	—	—	19 14.0	0.15	0 11.2	May be air current.
662	" 29	21 59.0	—	—	22 25.2	0.4	0 25.6	Very small and well defined.
663	April 5	19 24.0	—	—	19 29.0	0.05	0 5.0	Slight thickening.
664	" 10	21 29.4	21 39.4	21 41.0	23 3.0	18 +	1 33.6	Very large.
665	" 11	21 41.5	—	21 42.3	—	0.05	0 2.0	May be air current.
666	" 13	20 19.0	—	—	20 42.0	0.20	0 23.0	Very small. Well defined.
667	" 14	4 19.0	—	—	5 33.0	0.05	1 14.0	Thickenings and sudden oscillations
668	" 18	13 19.3	13 25.0	13 33.3	17 10.0	over 20+	3 50.7	Very large (California).
669	" 18	18 25.0	—	—	18 32.0	0.20	0 7.0	Marked thickening.
670	" 18	19 56.0	—	—	19 57.0	0.10	0 1.0	Monetary thickening.



## Register from Toronto, Ont., Canada—continued.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Duration	Remarks
671	April 19	H. M. 0 45.5	H. M. —	H. M. —	H. M. 1 15.0	MM. 0.40	H. M. 0 29.5	Very small, but several rapid oscillations.
672	" 19	7 54.0	—	—	8 56.0	0.20	1 4.0	Prolonged thickenings.
673	" 20	18 25.0	—	—	18 32.0	0.05	0 7.0	Thickening.
674	" 23	9 21.0	—	9 31.6	10 11.3	1.0	0 50.3	Small and well defined (Oregon).
675	May 5	0 39.8	—	—	1 14.0	0.80	0 34.2	Sudden vibration, gradually tapered down.
676	June 1	4 53.0	—	—	7 6.0	0.30	2 13.0	Very small and extended.
677	" 2	5 35.2	—	—	5 48.2	0.05	0 13.0	Thickening.
678	" 6	13 18.2	—	—	15 25.5	0.10	0 7.3	—
679	" 7	3 0.7	—	—	3 19.0	0.15	0 18.3	—
680	" 20	2 38.0	—	—	3 19.0	0.50	0 32.0	—
681	" 22	3 26.2	—	—	3 50.2	0.20	0 24.0	—
682	" 22	7 2.0	—	—	7 16.0	0.25	0 14.0	—
683	" 22	7 32.0	—	—	7 37.0	0.10	0 5.0	—
684	" 22	7 57.2	—	—	8 9.2	0.15	0 12.0	—
685	" 24	12 27.6	—	—	12 38.4	0.20	0 30.8	—
686	" 26	12 33.0	12 35.0	12 36.2	12 37.0	0.60	0 24.0	—
687	" 30	16 44.0	—	—	16 48.0	0.15	0 1.0	—

One millimetre displacement = 0°65.

Register from Victoria, B.C., Canada.  
Superintendent, E. BAYNES REEL.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Duration	Remarks
<b>1906.</b>								
639	Jan. 6	H. M. 21 50.5	H. M. —	H. M. —	H. M. 21 55.5	MM. 0.05	H. M. 0 5.0	Slight thickening.
640	" 10	12 30.2	—	—	12 35.2	0.10	0 5.0	—
641	" 10	13 14.0	—	13 16.0	14 16.0	1.30	1 9.0	Small and well defined.
642	" 16	20 21.2	—	—	20 26.7	0.5	0 5.5	Very small.
643	" 18	7 8.9	—	—	7 9.7	0.2	0 5.8	Brief thickening.
644	" 21	13 59.5	14 8.5	14 8.5	16 0.0	1.0	2 0.5	Small and prolonged.
645	" 24	6 43.5	6 44.7	6 49.9	8 43.5	8.0	2 0.0	Large double quake.
646	" 24	9 55.7	—	—	10 9.5	0.15	0 12.8	Marked thickening.
647	" 24	21 38.5	21 39.5	21 41.4	22 48.5	4.0	1 19.0	Medium.
648	" 25	20 40.9	—	—	20 52.9	0.2	0 12.9	Thickening.
649	" 27	9 52.4	—	10 8.5	11 33.4	1.9	1 41.0	Medium and extended.
650	" 31	14 49.3	—	—	15 13.0	0.07	0 23.7	Thickening.
651	" 31	15 45.4	15 53.7	16 27.2	19 51.2	16.0	3 5.8	Very large. Began gradually. (Columbian.)
652	" 31	21 59.0	—	—	22 8.0	0.03	0 9.0	Minute thickening.
653	Feb. 1	2 48.0	—	—	3 40.0	0.5	0 52.0	Very small.
654	" 1	7 6.0	—	—	7 7.0	0.03	0 1.0	Barely noticeable.
655	" 2	0 1.0	—	—	0 13.5	0.05	0 17.5	Thickenings.
656	" 2	17 13.0	—	—	17 35.0	0.2	0 42.0	Very small.
657	" 3	21 22.5	—	—	21 30.0	0.05	0 7.5	Very slight thickening.
658	" 8	0 27.5	—	—	0 38.0	0.05	0 10.5	Brief thickening.

## Register from Victoria, B.C., Canada—continued.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Duration	Remarks
659	" 10	H. M. 15 20.9	H. M. —	H. M. —	H. M. 15 31.9	MM. 0.40	H. M. 0 11.0	Began and ended gradually.
660	" 11	2 55.9	—	2 57.9	3 5.9	1.0	0 10.0	Small.
661	" 16	18 11.6	—	18 46.6	0.15	0 35.0	Thickenings.	
662	" 19	2 12.5	2 22.8	2 52.5	5 19.5	1.80	3 7.0	Medium and extended.
663	" 23	15 51.5	—	—	16 2.5	0.2	0 24.0	Slight thickenings.
664	" 26	15 55.2	—	—	16 2.2	0.1	0 17.0	Very small.
665	" 27	Attending inst.	inst.	20 49.0	20 57.0	0.2	—	Slight thickenings.
666	" 28	6 42.2	—	6 46.3	6 54.4	0.4	0 12.2	Marked disturbances.
667	" 28	13 34.6	—	—	13 49.6	0.5	0 14.8	Well defined.
668	March 2	6 59.1	—	—	7 24.1	0.1	0 25.0	Unpronounced thickening.
669	" 3	8 50.8	—	9 12.0	10 32.0	1.0	1 41.2	Small and extended.
670	" 3	20 39.2	—	—	20 32.7	0.3	0 7.0	Three very small oscillations.
671	" 10	5 5.5	—	—	5 9.5	0.10	0 4.0	Barely noticeable.
672	" 10	7 26.8	—	—	8 12.0	0.15	0 45.2	Undulatory. (India.)
673	" 10	16 49.0	—	—	18 22.0	0.1	1 33.0	May be air c.
674	" 16	9 29.4	—	9 32.8	9 41.0	0.5	0 11.6	Ended gradually.
675	" 17	12 1.7	—	—	12 5.2	0.15	0 3.5	Very small vibrations.
676	" 19	8 13.6	—	8 28.4	8 50.0	1.1	0 36.4	Small.
677	" 29	22 4.0	—	—	22 35.5	0.1	0 29.5	Thickening.
678	April 10	21 28.0	21 36.1	21 38.7	23 39.0	7.0	2 11.0	Large. Double max.
679	" 13	20 10.0	—	—	20 47.0	0.20	0 37.0	Very small.
680	" 14	0 43.7	—	—	1 0.1	0.05	0 17.4	Thickenings at intervals.
681	" 14	4 15.1	—	—	5 34.1	0.10	1 19.0	Very large; across paper a number of times.
682	" 18	13 14.2	13 14.7	13 17.1	17 15.0	20 +	4 0.8	Very large; across paper a number of times.
683	" 18	18 8.7	—	18 12.0	18 20.4	0.8	0 11.7	Very small, but well defined.
684	" 18	19 40.9	—	—	19 50.4	0.2	0 9.5	Thickening.
685	" 19	0 35.9	0 37.9	0 38.9	1 37.9	4.0	1 2.0	Moderate, tapered off gradually.
686	" 19	7 42.9	—	—	8 50.9	0.05	1 8.0	Extended thickening.
687	" 23	9 12.0	9 12.9	9 14.6	10 7.7	7.2	0 55.7	Medium. (Oregon.)
688	" 25	1 58.8	—	—	2 8.8	0.05	0 10.0	Gradual thickening.
689	May 3	2 0.1	—	—	—	—	—	Minute thickening.
690	" 3	4 27.7	—	—	4 40.7	0.10	0 13.0	Marked thickening.
691	" 5	0 42.7	—	0 43.7	1 19.7	0.30	0 37.0	Very small but decided.
692	June 1	4 53.0	—	—	7 3.0	0.25	2 10.0	Very small and extended.
693	" 8	0 20.0	—	—	0 28.0	0.40	0 8.0	—
694	" 20	2 41.0	—	—	3 5.0	0.20	0 24.0	—
695	" 22	3 1.1	—	—	—	—	—	—
696	" 22	7 1.1	—	—	—	—	—	—
697	" 24	12 18.0	—	—	12 46.0	0.15	0 28.0	—

One millimetre displacement = 0°76.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude.	Duration	Remarks
<b>1906</b>								
394	Jan. 6	H. M. 21 44.5	H. M. 22 10.0	H. M. 22 12.0	H. M. 22 21.2	MM. 1.25	H. M. 0 36.7	—
395	" 7	16 6.9	—	16 7.9	16 21.2	0.75	0 14.3	—
396	" 15	19 38.3	19 42.4	19 44.4	19 57.6	1.00	0 21.3	—
397	" 21	13 56.6	14 0.7	14 09.5	15 11.9	5.59	1 15.3	—
398	" 24	7 34.1	7 38.1	7 49.2	8 31.0	0.75	0 56.9	—
399	" 24	22 31.8	22 32.9	22 34.9	2 45.1	0.50	0 13.3	—
400	" 27	9 59.9	10 9.1	10 18.2	11 15.2	5.00	1 15.3	—
401	" 28	15 3.8	15 6.8	15 9.9	15 23.1	0.50	0 19.3	—
402	" 31	15 54.8	—	—	20 44.4	—	4 49.6	As the boom moved out of range the times of the max. displacement and its max. amplitude cannot be determined.
403	Feb. 2	18 27.4	18 36.0	18 37.6	18 51.8	0.50	0 24.0	—
404	" 10	9 2.6	9 18.6	9 20.6	9 30.9	0.50	0 28.3	—
405	" 23	15 48.8	—	15 49.8	16 14.8	0.75	0 26.0	—
406	" 27	19 45.8	—	19 49.9	20 57.0	14.0 (a)	1 11.2	(a) Measured from the base line.
407	March 2	6 19.8	6 23.8	6 28.9	7 27.9	3.25	1 8.1	—
408	" 2	13 8.6	—	—	13 14.7	—	0 6.1	Thickening of the line.
409	" 3	9 22.5	9 56.1	10 2.2	10 56.1	1.00	1 33.6	—
410	" 10	6 56.0	7 28.6	7 34.7	7 58.1	0.50	1 2.1	—
411	" 10	17 3.1	—	17 22.5	17 44.8	0.50	0 41.7	—
412	" 13	13 38.7	13 50.9	13 55.0	14 19.4	1.25	0 40.7	—
413	" 16	20 15.9	—	20 16.9	20 25.5	1.00	0 9.6	—
414	" 16	22 44.8	22 53.0	23 1.1	23 52.0	12.00 (a)	1 7.2	(a) Measured from the base line.
415	" 17	19 4.2	—	—	19 12.3	—	0 8.1	Thickening of the line.
416	" 19	8 18.4	8 35.7	8 41.8	9 12.3	1.00	0 53.9	—
417	" 20	4 7.2	—	4 9.3	4 32.6	0.75	0 25.4	—
418	" 21	23 42.8	0 2.1	0 6.7	0 36.7	1.50	0 53.9	—
419	" 27	5 47.9	5 56.0	6 0.1	6 27.5	1.00	0 39.6	—
420	" 27	23 9.3	23 11.8	23 13.3	23 28.6	1.50	0 19.3	—
421	" 28	18 29.1	18 59.6	19 5.2	19 29.6	0.50	1 0.5	—
422	" 28	20 32.6	—	—	20 46.9	—	0 14.3	Thickening of the line.
423	April 8	17 52.0	18 4.2	18 7.2	18 27.5	1.50	0 35.5	—
424	" 13	18 25.5	18 30.6	18 37.7	19 32.6	3.50	1 7.1	—
425	" 13	23 1.1	23 10.3	23 11.3	—	2.00	(a)	(a) Doubtful. The time of the termination of the displacement cannot be determined as the usual morning air tremor commenced before it ended.
426	" 18	13 19.9	13 40.8	14 18.9	17 24.5	17.0 (a)	4 1.6	(a) Measured from the base line.
427	" 19	6 4.2	—	—	8 22.5	—	2 18.3	Thickening of the line.
428	" 29	16 47.9	16 57.0	16 58.1	17 32.6	1.00	4 44.7	—
429	May 12	5 37.7	5 53.5	5 54.0	6 34.7	10.50 (a)	0 57.0	(a) Measured from the base line.
430	" 17	9 53.5	10 22.6	10 45.9	11 50.9	2.50	1 57.4	—
431	" 18	21 1.1	—	21 8.2	21 12.3	1.00	0 11.2	—
432	" 20	10 7.2	10 20.4	10 23.0	10 28.6	0.50	0 21.4	Doubtful.
433	June 1	4 33.8	4 47.9	5 10.3	6 37.0	6.00	2 17.2	—
434	" 10	26 56.0	20 59.1	21 3.1	21 30.6	4.00	0 34.6	—

## Register from Alipore Observatory, Calcutta—continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
435	" 24	H. M. 11 22.3	H. M. 11 25.5	H. M. 11 51.6	H. M. 12 24.5	MM. 16.0 (a)	H. M. 1 2.0	(a) Measured from the base line but as the boom moved through nearly the whole breadth of the trace the max. amplitude cannot be accurately determined.
436	" 29	20 59.1	21 1.1	21 4.7	21 15.3	0.50	0 16.2	—

Sensibility throughout 1mm. = 0.38 of tilt.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude.	Duration	Remarks
<b>1906</b>								
18	Jan. 6	H. M. 22 9.9	H. M. 22 13.3	H. M. 22 34.2	MM. 0.4	H. M. 0 24.3	—	—
34	" 15	13 44.3	—	13 46.0	20 6.0	0.7	0 21.7	—
43	" 21	13 58.8	—	14 8.2	—	1.5	—	End lost in shifting time.
62	" 27	10 17.1	—	10 28.0	11 33.7	2.3	1 16.6	—
78	" 31	15 56.3	—	17 18.5	20 5.1	15.2	4 8.8	—
79	Feb. 1	2 49.0	—	2 54.0	3 46.3	0.6	0 57.5	—
137	" 19	2 23.6	—	3 12.9	4 53.9	1.5	2 30.3	—
149	" 23	15 53.7	—	15 57.8	16 18.5	1.0	0 34.8	—
155	" 24	9 24.4	—	9 25.4	9 32.8	0.7	0 8.2	—
167	" 26	10 41.6	—	10 42.2	10 49.8	0.5	0 8.2	—
175	" 27	19 44.2	19 47.2	19 49.4	21 5.0	8.4	1 20.8	—
188	March 2	6 25.0	—	6 30.1	7 18.5	2.6	0 53.3	—
192	" 3	9 59.7	—	10 7.1	10 59.5	0.6	0 59.8	—
217	" 10	17 24.1	—	17 30.5	17 46.9	0.6	0 21.9	—
227	" 13	14 1.4	—	14 6.3	14 32.0	0.5	0 20.6	—
236	" 16-17	22 57.2	—	23 10.4	0 46.1	2.5	1 48.9	—
246	" 20	3 58.5	—	4 2.5	4 30.2	1.0	0 31.7	—
262	" 26	1 48.4	—	1 48.7	1 51.6	1.1	0 3.2	—
267	" 27	5 48.3	—	6 3.4	6 51.4	0.8	1 3.1	—
272	" 28	19 1.3	—	19 16.1	19 43.2	0.7	0 41.9	—
315	April 10	22 39.1	—	22 51.5	23 40.0	1.0	1 0.9	—
317	" 11	11 23.4	—	11 38.7	12 50.9	1.0	1 27.5	—
326	" 13	19 32.8	—	19 46.0	20 21.7	1.1	0 48.9	—
345	" 18	13 40.8	—	14 34.1	17 4.8	6.3	3 23.5	—
351	" 19	7 32.8	—	8 1.8	8 24.7	0.3	0 31.9	—
353	" 29	16 21.5	—	16 34.9	17 29.3	1.9	1 7.8	—
396	May 2	1 42.7	—	1 47.2	1 57.4	0.3	0 14.7	—
420	" 12	5 53.5	—	6 1.4	6 21.1	1.9	0 27.6	—
425	" 12	11 16.8	—	11 24.4	11 38.1	0.8	0 21.5	—
464	June 1	4 41.9	—	5 22.2	6 35.1	2.0	1 53.2	—
481	" 10	20 51.6	—	21 3.3	21 33.6	1.0	0 42.0	—
506	" 19	11 24.4	—	11 36.8	12 36.9	0.9	1 12.5	—
527	" 24	11 35.2	—	11 34.9	13 6.3	7.0	1 43.1	—

Between 1st January and 30th June, 1906, 1.0 mm. of amplitude = 0.47.  
Where no distinction of P.T. or L.W. can be made, the commencement of disturbance is entered in the column of "Commencement."

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude.	Dura- tion.	Remarks
<b>1906</b>								
1	Jan. 6	H. M. 22 15.8	M. H. 19 41.2	M. H. 19 42.4	H. M. 19 54	MM. 0.8	H. M. 0.4	0 20 Widening of line.
2	" 15	19 32.0	19 41.2	19 42.4	19 54	0.8	0.4	0 22
3	" 21	13 58.7	14 06.9	14 08.0	15 09	2.0	1.1	1 10
4	" 27	10 05.0	10 25.6	10 28.7	11 18	1.1	0.5	1 13
5	" 31	15 56.7	16 57.7	17 11.0		>22	>10	Colombia E.Q. Boorn went be- yond scale.
6	Feb. 1	2 48.3	2 48.3	2 48.3	19 20	15 7.2	3 23	
7	" 10	9 13.3		30.7	19 20	15 7.2	3 23	
8	" 18	2 25.6		25.4	19 20	15 7.2	3 23	
9	" 19	2 22.9	3 01.5	3 02.5	9 28		0 15	Widening of line.
10	" 27	19 50.1	19 52.6	19 52.6	20 47	3.6	1.5	0 57
11	March 2	6 28.0	6 35.3	6 37.2	7 08	1.4	0.8	0 40
12	" 3	9 21.3			10 25		1 04	Widening of line.
13	" 10	6 59.7			7 40		0 40	
14	" 10	16 39.2			17 44		1 05	" " "
15	" 13	14 02.0	14 06.2	14 07.0	14 21	0.4	0.2	0 19
16	" 16	22 56.7	23 10.0	23 12.1	23 38	1.5	0.8	0 41
17	" 19	8 16.0			9 01		0 45	Formosa E.Q. Widening of line.
18	" 20	3 53.6	4 06.0	4 06.8	4 21	0.5	0.3	0 27
19	" 21-22	23 57.7			0 13		0 15	Widening of line.
20	" 28	18 50.6	18 54.7	18 59.9		0.4	0.2	
21	" 28	18 50.6	18 54.7	18 59.9	19 41	0.4	0.2	0 50
22	April 5	22 38.2	22 48.5	22 49.3	23 03	0.4	0.2	0 25
23	" 3	18 15.8			18 30		0 23	Widening of line.
24	" 13	19 34.9	19 38.2	19 40.3		0.5	0.2	0 38
25	" 14	0 09.1	0 19.7	0 24.3	20 13	0.5	0.2	0 38
26	" 14		4 21.5	4 23.0	0 48	0.6	0.3	0 39
27	" 18	13 31.6	14 24.6	14 28.8	4 33	0.5	0.2	
28	" 19	7 17.4			16 02	2.5	1.4	2 30
29	" 25		1 50.7	1 50.9	2 10	0.4	0.3	1 02
30	" 29	16 44.0*	16 49.5	16 50.3	17 46	1.9	1.0	1 02
31	May 2	1 44.6			1 48		0 03	Widening of line.
32	" 3	8 31.5	8 32.1	8 34.1	8 42	0.5	0.2	0 10
33	" 12	5 53.4	6 02.5	6 02.5	6 24	0.8	0.4	0 31
34	" 19	23 20.9			23 38			0 17
35	" 27	6 11.0			6 28			0 17
36	June 1	5 21.3	lost.	lost.	7 35	1.4	0.7	2 14
37	" 10	20 51.5	20 59.0	21 00.8		1.1	0.5	
38	" 19	11 31.5	11 56.7	11 57.7	12 52	0.6	0.3	1 20
39	" 21	11 22.3	11 30.0	11 32.0		3.0	1.6	
40	" 24				12 52	2.0	1.1	1 30

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
<b>1906.</b>							
758	Jan. 15	H. M. 19 34.5		H. M. 19 37.7	M. H. 2.5	1.1	0 13
759	" 18	22 4.5		22 23.0	0.4	0.2	0 24
760	" 20	4 11.9		4 13.0	0.4	0.2	0 3
761	" 21	13 57.8	0.9	14 4.8	±11	±5.3	1 27
762	" 22	4 8.3		4 12.1	0.5	0.3	0 41
763	" 24	2 37.3	4.1	2 48.3	1.0	0.5	0 23
764a	" 27	9 3.9					Dubious.
764b	" 27	9 39.0					"
764c	" 27	9 48.3					"
764d	" 27	10 3.0		10 37.9	±2.9	±1.2	1.0
765	" 30	10 20.2		10 41.1	0.5	0.2	0 3
766	" 30	22 35.0		22 36.9	0.4	0.2	0 5
767	" 31	15 57.2		16 29.4	±1.6	±7.7	1.3
768	Feb. 1	2 34.8		2 48.2	1.9	0.9	1 4
769	" 10	8 48.4		9 0.9	4.3	2.1	0 34
770	" 15	22 51.5		22 52.5	0.8	0.4	0 5
771	" 19	2 16.2	7.7	2 40.3	5.0	2.4	2 18
772	" 24	9 30.2		9 41.5	0.5	0.2	0 14
773	" 25	5 13.9		5 28.0	0.6	0.3	0 27
774	" 27	1 52.6		1 57.7	0.4	0.2	0 13
775	" 27	19 56.2		20 19.1	1.8	0.9	1 16
776	March 2	6 5.2		6 29.6	1.3	0.6	1 20
777	" 3	6 54.2		7 10.6	0.4	0.2	0 36
778	" 3	9 15.0		9 42.6	0.4	0.2	1 23
March 14h, 8h., to 5th, 9h., small continuous tremors.							
779	" 6	13 45.0		14 4.1	0.6	0.3	1 0
780	" 9	19 46.2		20 12.0	0.8	0.3	0 45
781	" 10	6 46.5		7 15.5	1.2	0.5	1 27
782	" 10	16 34.2		17 16.3	1.5	0.6	1 36
783	" 13	13 41.2		14 7.9	0.8	0.3	0 35
784	" 14	23 11.4		23 11.8	0.8	0.3	0 3
785	" 16	22 50.1	9.2	23 5.0	4.7	2.0	1 0
786	" 17	10 12.0		10 13.0	0.4	0.2	0 8
787	" 18	21 26.8		21 38.7	±3.0	±1.3	0 25
788a	" 19	7 54.1		7 54.7	0.4	0.2	0 2
788b	" 19	9 0.5		9 11.6	0.6	0.3	0 25
789	" 20	2 4.7	5.0	2 19.9	1.2	0.5	0 44
790	" 20	4 27.1		4 28.2	0.4	0.2	0 13
791	" 21	23 42.9					
Boorn went off at 23h.43m.; a shock from S.E. to N.W.; all the clocks at the observatory were stopped, save the electric one, the astronomical clock Hohwa No. 16 was stopped at 23h.43m.							
792	" 23	5 37.0		5 53.5	1.1	0.5	0 31
793	" 23	8 0.3		8 18.8	0.5	0.2	0 24
794	" 23	3 35.7		3 42.4	0.5	0.2	0 24
795	" 25	11 44.2		11 45.9	0.5	0.2	0 3
796	" 26	22 44.2		22 47.3	0.7	0.3	0 11
797	" 27	5 16.5		5 21.0	0.5	0.2	0 31
798	" 27	23 14.9		23 23.1	0.7	0.3	0 24
799	" 28	16 58.3		17 4.6	1.2	0.5	0 24
800	" 28	18 18.5		18 44.2	2.3	1.0	1 26
801	" 28	26 49.2		29 41.9	0.6	0.3	0 16
802	April 5	10 40.6		10 41.6	0.5	0.2	0 3
803	" 5	18 25.6		18 27.5	0.5	0.2	0 14
804	" 5	23 35.2		22 45.0	0.6	0.3	0 30
805	" 7	5 15.3		5 20.5	0.7	0.3	0 12
806	" 8	17 34.7		18 17.4	0.8	0.3	0 23
807	" 9	10 11.3		10 12.6	1.4	0.6	0 12
808	" 10	22 28.6		23 2.3	0.7	0.3	1 0
809	" 13	5 27.2		5 38.0	0.8	0.3	0 20
810	" 13	19 23.6	5.7	19 40.6	1.8	0.8	1 0
811	" 14	0 3.6	14.0	0 23.0	1.3	0.6	6 42

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 Duration	Remarks
		H.	M.	M.	H.	M.	MM.	H.	M.		
812	April 14	4	7.6	8.8	4	16.5	2.7	1.2	1	40	—
No record April 16th, 9h., to 17th, 8h.											
813	" 18	13	33.0	—	11	43.3	2.9	1.2	3	0	San Francisco earthquake.
814	" 19	6	40.3	26.7	7	12.8	1.1	0.5	2	15	—
815	" 24	13	1.7	—	13	2.3	0.4	0.2	0	8	Thickening.
816	" 25	1	39.7	—	1	45.1	5.3	2.3	2	40	—
817	" 26	22	11.6	—	22	13.7	0.7	0.3	0	5	—
818	" 29	16	38.1	7.0	16	45.9	1.9	0.4	1	0	—
819	" 30	2	12.8	—	2	17.2	0.7	0.3	0	35	—
820	May 2	1	21.9	—	1	41.3	0.7	0.4	0	21	Several thickenings.
No record May 2nd, 9h.41m., to May 3rd, 9h.58m.											
821	" 3	8	39.4	—	8	41.0	0.7	0.4	0	4	—
822a	" 5	1	4.8	—	1	5.1	0.5	0.3	0	2	—
822b	" 5	1	21.0	—	1	21.3	0.4	0.2	0	2	—
823	" 8	18	47.4	—	18	47.4	10.6	5.4	1	11	Amplitudes measured from baseline; seismic origin doubtful; possibly insect!
823	" 8	18	53.8	—	18	53.8	4.8	2.4	0	11	—
824	" 12	5	56.9	12.6	6	13.0	1.3	0.7	0	42	—
825	" 13	4	16.2	—	4	18.0	0.7	0.4	0	8	—
826	" 15	4	44.3	—	4	45.3	0.5	0.3	0	2	—
827	" 15	8	19.2	—	8	19.8	0.5	0.3	0	2	—
828	" 16	1	21.4	—	1	22.4	0.6	0.3	0	11	—
829	" 16	3	24.2	—	3	24.8	0.7	0.4	0	4	—
830	" 18	2	42.7	—	2	43.5	0.4	0.2	0	2	Thickening.
831	" 18	21	19.2	9.8	21	21.5	1.2	0.6	0	11	—
832	" 19	3	39.3	—	3	39.7	0.5	0.3	0	1	Thickening.
833	" 20	5	17.0	—	5	17.7	0.4	0.2	0	1	—
834	" 21	13	1.5	—	13	14.7	0.5	0.3	0	25	Several thickenings of line.
835	" 22	5	2.8	—	5	3.5	0.4	0.2	0	1	Thickening only.
836	" 23	4	58.9	—	4	59.5	0.4	0.2	0	2	Thickening.
837	" 28	2	45.5	—	2	43.9	1.3	0.7	0	6	Abrupt beginning.
838	" 30	3	53.4	—	3	53.6	0.5	0.3	0	1	Thickening only.
839	" 30	12	3.6	0.6	12	5.3	2.3	1.2	0	0	—
840	June 1	4	37.1	2.0 or 5.8	4	53.0	7.2	2.7	2	23	—
841	" 1	23	18.5	—	23	19.0	0.5	0.2	0	2	Thickening only.
842	" 2	8	53.9	—	8	51.4	0.5	0.2	0	1	—
843	" 2	14	42.9	—	14	56.7	1.9	0.4	0	17	—
844	" 5	7	6.3	—	7	6.7	0.6	0.2	0	1	Thickening.
June 6th, from 0h. to 5h., several thickenings of line.											
No record June 9th, 3h.44m. to 5h.19m., and 5h.45m. to 6h.15m.											
845	" 10	20	53.8	6.0	21	4.0	5.2	2.0	0	49	—
846	" 11	7	48.5	—	7	49.2	0.6	0.2	0	2	Thickening only.
847	" 11	11	40.1	—	11	48.0	1.0	0.4	0	18	—
848	" 12	12	1.9	—	12	2.8	0.8	0.3	0	3	Thickening.
849	" 13	8	7.6	—	8	8.0	0.7	0.3	0	2	—
850	" 13	9	30.8	—	9	32.4	1.4	0.4	0	6	—
851	" 15	15	49.2	—	15	50.2	0.8	0.3	0	2	Thickening only.
No record June 17th, 9h.3m., to June 18th, 0h.33m.											
852	" 19	0	11.9	—	0	12.4	0.6	0.2	0	1	Thickening.
853	" 19	11	24.0	5.9	11	35.7	2.6	1.0	0	52	—
854	" 24	11	22.7	4.3	11	31.9	27.5	10.5	1	45	Amplitude measured from baseline.
No record June 27th, 21h.3m., to June 28th, 0h.48.											
855	" 29	19	12.2	—	19	13.4	0.6	0.2	0	6	—
856	" 29	20	51.6	—	20	53.4	1.0	0.4	0	27	—
857	" 30	2	10.2	—	8	10.9	0.5	0.2	0	2	Thickening.

Register from Helwan Observatory, Cairo, Egypt.  
Superintendent, B. H. WADE.

No.	Date.	Com- mence- ment		L.W. Commence	Max.	End	Max. Ampli- tude.	Dura- tion.	Remarks				
		H.	M.										
<b>1906.</b>													
276	Jan. 21	H. M.	H. M.	H. M.	H. M.	MM.	H. M.						
		14	02	14	11	14	12	15	18	2	1 16	Sharp rise after preliminary tremor.	
277	" 27	10	05	10	34	10	41	11	26	1	1 21	Thickening. Seismic origin doubtful.	
	" 28	21	33	—	—	—	—	—	—	—	0 16	By black side photo.	
	" 31	15	27	15	55	16	41	—	—	16	—	By black side photo.	
				16	47 Off	the scale.	—	—	—	17	—	4 44	—
				16	54	—	—	—	—	—	—	0 19	Slight thickening.
277	Feb. 1	23	34	—	—	—	—	—	—	—	1 15	For the most part slight thickening.	
	" 2	0	35	—	—	—	—	—	—	—	0 18	Thickening only.	
278	" 2	0	35	—	—	0	36	—	—	—	—	—	—
				—	—	0	50	—	—	—	—	—	—
279	" 2	18	4	—	—	18	05	—	—	0.4	9 38	—	
	" 3	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
280	" 19	2	23.5	3	22.5	3	48.5	6	10	0.9	3 46.5	Frequent slight thickening, apparently seismic, from about 1.30 to 7.30.	
				4	03	—	—	—	—	0.9	—	—	—
				4	13	—	—	—	—	0.9	—	—	—
	" 22	1	30	—	—	—	—	—	—	—	1 01	Thickening.	
281	" 23	7	39	—	—	7	41	—	—	0.6	0 4	—	
282	" 27	19	54.5	20	6.5	20	11.5	20	33	1.7	0 38.5	—	
283	March 3	8	39.5	8	51.25	8	56.5	9	37	0.5	0 57.5	—	
	" 6	19	17	—	—	—	—	—	—	—	14 0	Continuous slight tremors.	
	" 8	18	11.5	—	—	—	—	—	—	—	0 10	Thickening.	
284	" 16	23	14	23	33	23	36	23	56	0.9	0 42	—	
285	" 20	3	48	3	51	3	52	4	31	2.0	0 43	—	
286	" 27	5	36.5	5	49	5	57	6	49.5	1.5	1 13	—	
287	April 10	21	56.5	22	6.5	22	48	23	19.5	0.6	1 23	Distinct earth tremor.	
	" 13	20	10	—	—	—	—	—	—	—	0 16	Thickening. Origin doubtful.	
	" 14	4	20	—	—	—	—	—	—	—	2 0	Thickening. Origin doubtful.	
288	" 18	13	31	13	39	14	34	17	00	4.5	3 29	—	
	May 5	1	25	—	—	—	—	—	—	—	0 18	Slight tremors.	
289	" 12	6	12	—	—	6	27	—	—	1	0 22	Distinct tremor.	
	June 1	4	59	—	—	—	—	—	—	—	2 17	Slight tremors.	
290	" 10	21	28	—	—	21	32	—	—	1.2	0 12	Distinct tremor.	
	" 18	12	48	—	—	—	—	—	—	—	0 16	Slight thickening.	
	" 19	12	03	—	—	—	—	—	—	—	0 22	Slight tremors.	
	" 24	7	44	—	—	—	—	—	—	—	0 21	Distinct tremor.	
291	" 24	11	32	11	58	12	01	12	49	2.0	1 17	Small earthquake.	
				12	03	—	—	—	—	—	—	—	—
17-6-06. 21h. 10m.—22h. 03m. Lamp out.													
28-6-06. 5h. 23m.—5h. 53m. " "													

Register from Cordoba, Argentina.  
Director, W. G. DAVIS. Observer, A. DE ROTHE.

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
<b>1902.</b>						
1039	July 1	H. M. 4 15	H. M. —	MM. —	H. M. 10 0	T. and C.I.M.
1044	" 17	4 15	—	—	10 0	" " " slight.
1045	" 18	4 30	—	—	10 45	" " " "
1047	" 23	1 49	2 12.3	0.3	0 33	Series of slight thickenings.
1048	" 23	15 33.1	15 42.7	0.5	0 33	Elongated beads; well defined.
1058	Aug. 15	8 41	—	—	1 35	Minute thicken- ings, doubtful.
1059	" 20	19 58.5	20 0.8	11.0 ?	0 15	Beginning abrupt strong E.Q., exceeding the limits of paper.
1061	" 24	1 15	—	—	4 30	C.I.M.
1062	" 24	21 18.8	21 36.8	0.7	1 59	Well defined beads; last half minute thickenings.
1065	" 27	22 20.8	23 7.8	2.0	2 2	Bead like; well defined.
1074	Sept. 27	—	—	0.6 ?	—	True E.Q. Com- menced be- tween 10h. and 10.28 while chang- ing paper; end 11h.40m.
1077	Oct. 3	4 24	—	—	0 11	Several thicken- ings, followed by T.
1090	" 25	9 42.6	9 49.8 9 52.4 9 56.5	1.6	1 11	Well defined; Last part bead like.
1103	Nov. 19	9 22.8	9 32.6	2.9	0 32	Not beadlike; No P.T.
1104	" 19	13 49.1	13 53.4	1.1	0 12	Very similar to No. 1103 in form.
1111	Dec. 11	17 6.5	17 8.8	1.7	0 28	Well defined; beadlike.
1114	" 20	5 52.3	6 1.5	0.5	0 52	" " "
1115	" 22	15 43.3	15 52.3	—	0 18	Violent and ir- regular swing to W. Max. deviation 10mm.
<b>1905.</b>						
1118	Jan. 10	6 42.3	—	—	0 3	Slight thicken- ing; doubtful.
1122	" 19	20 38.3	—	0.5	0 3	Carrot shaped.

Instrument removed on January 20th; stopped at 9h.22m.

Notes to Register from Cordoba, Argentina.

Sensibility of instrument 1mm. of amplitude = 0° 955.  
T. = Tremors. C.I.M. = Continuous irregular movements.  
D. = Dislocation or sudden displacement.

From the 20th of November until the instrument was removed to Pilar there were many erratic movements at intervals but usually not of such a character as to mask completely any important seismic disturbance.

For the sake of brevity all these have been omitted from the register.  
Movements which commenced suddenly are marked >.

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

No.	Date	Commence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
<b>1905.</b>								
4	March 2	H. M. 3 38.8	H. M. 4 56.6	H. M. —	H. M. —	MM. 0.1	CG. M. —	2 small beadlike shocks. Dur. 1m.
7	" 5	—	16 17.4	—	—	0.2	0 3.0	Small carrot-shaped
11	" 9	22 47.4	—	23 02.2	23 17.9	0.2	0 30.5	Ap. true Eqke. movt., slight.
12	" 10	2 39.8	—	2 43.8	2 44.9	0.1	0 5.1	Same, very slight.
13	" 11	4 33.5	—	5 18.4	5 23.4	0.5	0 32.9	Same.
14	" 10	6 59.6	—	—	—	0.1	0 9.5	Same, beadlike, very slight.
24	" 17	2 55.6	—	—	4 29.6	0.4	1 34.0	Dur. of first movt. 3m., followed by T. and small T. and small T.
26	" 17	22 19.4	22 25.0	22 30.4	22 47.4	1.0	0 28.0	Well defined Eqke. movt.
28	" 19	0 22.0	—	0 33.7	2 08.8	0.5	1 46.8	True Eqke. movt., followed by T. whole morning, during which a possible shock; time lost.
29	" 19	—	13 20.5 21.5	—	—	0.1	0 3.0	>> slight.
30	" 19	13 46.9	—	14 30.6 31.6	14 40.8	0.6 0.6	0 53.9	True Eqke. movt., commencing with >; first max. beadlike, second >
42	" 20	11 03.7	—	11 12.9	11 28.6	0.6	0 24.9	Ap. true Eqke. movt., max. ind. >
44	" 20	14 35.7	—	14 44.9	15 06.2	1.0	0 30.5	Ap. true Eqke. movt., max. >
48	" 21	19 08.3	—	19 18.4	19 23.5	1.5	0 13.2	Ap. true Eqke. movt., max. >
50	" 22	2 15.1	—	4 01.7	—	0.2	0 5.0	Two slight > D., followed by T. and bending of line, between which a slight beadlike shock, ind. as max. dur. 1m., ampl. 0.2.
51	" 22	6 45.3	—	—	—	0.2	0 2.0	>
53	" 22	11 39.8	11 47.4	14 48.1 51.5	14 55.9	0.5 0.3	0 16.1	Ap. true Eqke. movt., second max. >
54	" 22	16 42.8	—	—	—	0.5	0 2.0	> slight.
55	" 22	16 53.5	17 09.8	—	—	0.2	each 2.0	Two > D., first to W., second bring- ing line back.

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
61	April 13	H. M. 16 25.6	H. M. —	H. M. 16 26.6	H. M. —	MM. 0-1	H. M. 0 3.0	Slight but true Eqke. movt.
64	" 17	0 13.4	—	—	—	—	6 30.0	T and slight bending of line.
71	" 23	16 24.3	—	—	—	0.4	0 3.0	>
72	" 26	16 14.3	—	—	—	0.1	0 2.0	> very slight.
73	" 26	21 47.9	—	21 48.9	22 50.0	3.0	1 2.1	Well defined Eqke. movt.
75	" 28	17 13	Movt. commences again with strong bending to E. bet. 18 and 21h. (max. at 19h.), and C.I.M. from 19h.45m. to finish at 5h.55m. on 29h. during new bend of line to W. betw. 1h. and 10h. (max. 4mm. at 6h.) when movt. finishes. T. commences again at 19h. and C.I.M. resembling true Eqke. movt. at 19h.45m. under strong bending of line to E. 9mm. at 19h.45m., begin 18h.45m. Movt. finishes with strong T. at 5h.45m. on 30h.					
76	April 30	14 30.6	—	14 32.7	—	0.7	0 8.0	>> doubtful.
81	May 5	16 14.8	16 18.9	—	16 21.0	0.2	0 6.8	Ap. true Eqke. movt., very slight.
85	" 9	6 57.6	—	—	—	—	0 38.1	True Eqke. movt., slight.
87	" 11	13 45.4	21 19.5	3 07.8	4 15.4	0.6	14 30.0	True Eqke. movt., 2 curves to E. at 18h.20m. and 20h.45m.
89	" 12	14 05.2	15 36.7	15 44.9	16 41.8	0.6	2 36.6	True Eqke. movt., with bend 1mm. E.
98	" 18	—	14 07.8	14 09.3	15 43.5	0.6	1 35.3	True Eqke. movt.
100	" 20	10 15.4	—	10 20.9	10 27.0	0.2	0 11.6	True Eqke. movt., slight.
101	" 23	6 21.5	6 24.0	6 29.1	7 39.8	3.0	1 18.3	Well-defined Eqke. movt.
108	" 25	3 27.6	3 35.2	3 36.2	3 58.6	0.6	0 31.0	Well-defined Eqke. movt.
110	June 2	7 14.3	—	—	—	—	0 6.0	Small thickening of line.
111	" 2	16 21.0	—	—	—	0.5	0 3.0	>
112	" 3	—	8 16.4	—	—	0.2	0 3.0	Carrot-shaped, very slight.
114	" 6	2 06.8	—	—	—	0.2	0 2.0	> slight.
117	" 12	5 46.4	—	5 47.4	—	0.3	0 8.0	2 slight thickenings of line.
118	" 12	6 20.5	6 23.5	6 34.7	—	—	—	5 thickenings, very slight.
119	" 12	8 29.6	9 02.2	9 48.9	—	—	—	1 thickenings, very slight.
124	" 14	11 52.0	—	12 15.9	—	0.4	—	True Eqke. movt., end uncertain.
131	" 21	23 50.5	—	23 35.5	24 05.8	0.2	0 15.3	True Eqke. movt., cigar-shaped.
133	July 9	10 01.7	—	10 26.4	11 47.4	0.2	1 45.7	Slight movt. at 10h.42.3m., changing to strong T., max. at 11h.14.4m.
135	" 12	—	—	6 34.7	—	0.1	0 1.0	Slight > doubtful.
136	" 14	9 21.9	—	10 26.0	—	—	1 4.1	Thickening of line.
139	" 23	3 05.6	3 00.6	3 35.7	5 45.1	0.6	2 39.5	True Eqke. movt., well defined.
142	Aug. 12	15 16.4	—	—	15 23.4	—	0 7.1	Thickening of line.
147	" 31	14 27.6	—	14 34.3	14 54.4	0.7	0 26.8	True Eqke. movt.
157	Sept. 8	2 69.9	2 37.7	2 46.4	3 04.5	0.4	0 51.6	True Eqke. movt., begin with several thickenings of line. Calabria?
162	" 15	—	6 25.6	6 34.2	8 33.2	0.4	2 7.6	True Eqke. movt., slight. Calabria?
163	" 18	—	—	12 20.5	—	0.6	0 8.0	> Belen, Chambecha, Rioja.
168	" 30	—	20 25.6	20 33.4	20 50.4	0.3	0 32.8	True Eqke. movt., very slight; a long series of small undulations from 14h. to 24h.

Register from Magnetic Observatory, Pilar, Cordoba—continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
171	Oct. 15	H. M. 21 56.3	H. M. —	H. M. 22 02.0	H. M. 22 41.8	MM. 0-2	H. M. 49.5	True Eqke. movt., very slight.
172	" 17	7 16.4	—	9 30.6	10 15	0.3	—	At 7h.15m. commences strong bending of line to E., coming back to level at 12 o'clock. Apparently true Eqke. movt., very slight.
173	Nov. 4	14 48.7	—	15 01.8	15 22.5	0.2	33.8	Ap. true Eqke. movt., very slight, followed by thickenings to 22h.15m.
175	" 8	21 42.8	22 03.2	22 15.4	23 02.4	0.2	1 19.6	True Eqke. movt., well defined.
176	" 10	21 45.4	—	21 47.4	22 03.7	1.2	18.3	" " " "
177	" 24	5 28.6	—	5 32.7	5 45.4	0.2	16.8	Two slight cigar-shaped shocks.
182	" 25	—	—	15 23.6	17 45.1	0.4	2 21.5	All >. At 15h. 47.4m. and 15h. 59.6m. two small cigar-shaped shocks of 0.4 amp. and 3.5m. duration.
185	Dec. 4	8 13.8	—	8 27.6	8 56.1	0.4	42.3	True Eqke. movt., well defined.
187	" 10	14 31.7	—	14 42.9	15 26.6	—	54.9	Series of small shocks. Ap. true Eqke. movt. Time uncertain.
189	" 17	5 45.0	—	—	7 45.0	0.2	2 0.0	Slight but ap. true Eqke. movt. Thirteen thickenings. Kingston, Trinidad?
192	" 29	10 50.5	—	—	12 45.0	0.1	1 54.5	" " " "

February to June 22, Boom period = 17sec. Sensibility 1mm. = 0°64.  
 June 22 to November 2, " " = 15 " " " = 0°56.  
 November 2, " " = 16 " " " = 0°50.

With Eqke. number 87 the magnetograph shows a disturbance for horizontal intensity but not for declination.

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
<b>1906.</b>								
153	Jan. 6	H. M. 22 20	H. M. —	H. M. 22 23.5	H. M. 22 41	MM. 0.3	H. M. 0 21.0	—
154	" 21	14 00.5	14 11	14 11.5	15 21.5	1.2	1 21.0	—
155	" 24	7 41.5	—	7 47	8 28	0.4	0 46.5	Thickening.
156	" 24	22 38.5	—	—	22 43	—	0 4.5	"
157	" 25	1 57.5	—	1 59	2 13	—	0 13.5	"
158	" 25	13 49	—	—	13 51	—	0 2.0	"
159	" 27	10 4	10 30.5	10 31	12 34	1.1	2 30.0	"
160	" 30	2 53.5	—	—	2 55.5	—	0 2.0	Slight thickening.
161	" 31	15 51	16 1.5	16 52	20 8.5	10.0	4 17.5	"
162	Feb. 1	2 45.5	—	3 15	3 13.5	2.5	1 28.0	"
163	" 5	5 48.5	—	—	6 23	—	0 34.5	Thickening.
164	" 10	9 48	—	—	9 50.5	—	0 2.5	"
165	" 23	7 32.5	—	7 34	7 47.5	7.5	0 15.0	"
166	" 23	16 5	—	16 10	16 34	0.3	0 29.0	"
167	" 24	0 36	—	—	1 7.5	—	0 31.5	Thickening.
168	" 27	19 50.5	20 4	20 5.5	20 55.5	1.5	1 5.0	"
169	March 2	6 22.5	—	6 39	7 2	0.6	0 39.5	"
170	" 3	9 7	—	9 50	10 40	0.3	1 33.0	"
171	" 6	15 40.5	—	—	15 44.5	—	0 4.0	Thickening.
172	" 8	18 15	—	—	18 17.5	—	0 2.5	Slight thickening.
173	" 9	20 44.5	—	—	20 53.5	—	0 9.0	"
174	" 10	7 56.5	—	8 5.5	8 38.5	—	0 42.0	"
175	" 10	17 37.5	—	17 59.5	18 25.5	—	0 48.0	"
176	" 13	14 16.5	—	—	14 26.5	—	0 10.0	Thickening.
177	" 16	23 3	—	23 33	23 59	1.3	0 56.0	"
178	" 19	8 7	—	8 23	8 41	1.0	0 34.0	"
179	" 20	3 36.5	—	3 52	4 11	1.5	0 34.5	"
180	" 22	0 23.5	—	—	0 40	—	0 16.5	Thickening.
181	" 27	5 49.5	—	5 58	6 18	0.7	0 28.5	"
182	" 28	19 18	—	19 37.5	20 17	0.6	0 59.0	"
183	April 5	22 53	—	—	23 5	—	0 10.0	Thickening.
184	" 10-11	21 57.5	22 30.5	22 32.5	0 5	2.0	2 7.5	"
185	" 12	9 26	—	—	9 28	—	0 2.0	Slight thickening.
186	" 13	19 47	—	19 47.5	20 42.5	0.3	0 53.5	"
187	" 14	4 18.5	—	4 31	6 13	0.3	1 54.5	"
188	" 14	0 21	—	—	0 23	—	0 2.0	Slight thickening.
189	" 19	8 16	—	8 19	8 54.5	0.2	0 38.5	"
190	June 1	4 53	—	6 40	6 47	0.8	1 54.0	"
191	" 10	21 11	—	—	21 29	—	0 18.0	Thickening.
192	" 19	11 48.5	—	12 12	12 39	0.4	1 0.5	"
193	" 24	7 42	—	7 47.5	8 16	0.3	0 34.0	"
194	" 24	11 28	—	12 5	12 40.5	0.7	1 12.5	"
195	" 29	21 22	—	—	21 28	—	0 6.0	Thickening.

Film from Feb. 13-20 spoiled in development.

Jan. 2 0 30 -21 46 }  
 " 4 1 10 -22 10 } Lamp out.  
 Ap. 18 12 35 -20 06 }

Period = 15 sec. Imm. = 6"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
<b>1906.</b>								
	Jan. 3	H. M. 2 56.3	H. M. 3 04.0	H. M. 3 09.5	H. M. 3 19.0	MM. 1.0	H. M. —	E.Q.
	" 16	—	20 27.0	—	20 31.1	0.3	—	Swelling of line.
	" 18	23 0.4	—	—	23 15	0.4	—	" " "
	" 21	14 14	—	14 58	15 33	0.5	—	" " "
	" 24	6 56.7	7 06.2	7 7.5	7 28.0	—	3.2	Three P.P. with
				7 45.0	—	1.0	—	quieter inter-
				7 45.0	—	1.5	—	vals.
	" 24	21 58	22 1.4	22 1.6	22 45.0	2.2	—	Several equal
	" 27	9 50	10 22.0	10 24.6	11 51.0	2.0	—	maxima.
	" 27	16 17.5	—	—	17 16.0	0.2	—	Beads.
	" 31	14 27.0	—	—	15 3.0	0.2	—	—
	" 31	15 43.4	15 49.3	16 2.0	20 30.0	16 +	—	Columbian E.Q.
								Amp. more than
								16mm. off and on
								for 35m. Largest
								E.Q. so far record-
								ed at Baltimore.
	" 31	21 35.5	—	21 50.0	22 9.0	0.5	—	Apparently an
								after shock.
	Feb. 1	2 53.8	—	—	23 45.5	23 54.0	0.2	Beads. fort 12m.
	" 1	23 39.0	—	—	17 16.5	18 18.0	0.3	Beads.
	" 2	17 06.4	—	—	—	—	0.5	inaccurate. Times
	" 8	—	1 06.0	—	1 13.0	0.3	—	Swelling.
	" 10	6 30.0	—	—	12 00.0	0.2	—	Swelling. Perhaps
	" 16	15 50	—	15 57.6	—	2.0	—	A.C.
	" 19	2 20.7	3 01.2	3 14.1	4 53.0	5.7	—	E.Q.

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
<b>1906.</b>								
292	Jan. 23	H. M. 1 50	H. M. —	H. M. 1 56	H. M. —	MM. 0.6	H. M. —	Thickening of line
293	" 25	15 41	—	—	15 43	—	0.2	"
294	" 31	14 15	—	14 25	14 42	1	0.2	Copy sent. Full
295	" 31	15 39	—	15 41	19 46	?	4.7	swing for 39
296	" 31	20 16	In one diagram	—	20 26	—	0.10	minutes, slight
297	" 31	21 25	—	21 37	22 1	2	0.35	thickening.
298	Feb. 1	15 24	—	—	15 33	—	0.9	Thickening of line
299	" 1	23 24	—	23 35	24 1	2.5	0.37	—
300	" 2	16 55	—	17 5	17 26	3	0.31	—
301	" 3	19 1	—	19 7	19 31	2	0.39	—
302	" 3	3 43	—	—	4 10	1.5	0.46	—
303	" 6	1 43	—	1 47	2 1	2	0.18	—
304	" 7	14 11	—	—	14 20	—	0.9	—
305	" 12	0 49	—	—	0 52	—	0.3	Thickening of line
306	" 15	13 8	—	—	13 14	—	0.5	—
307	" 14	17 39	—	17 45	18 12	3	0.33	—

Register from Experiment Station, St. Clair, Trinidad, B.W.L.—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.		
308	Feb. 19	2 21	—	—	4 21	—	2 0	Series of thicken- ings.	
309	March 3	8 43	8 54	8 58	9 17	4	0 34	Merged in tremors	
310	" 3	18 24	—	—	18 34	—	0 10	Thickening of line	
311	" 9	17 4	—	—	17 7	—	0 3	" " "	
312	" 13	20 42	—	—	20 45	—	0 3	" " "	
313	" 15	11 55	—	—	12 2	1.5	0 7	" " "	
314	" 21	16 27	—	—	16 28	—	0 1	Thickening of line	
315	" 29	21 48	21 56	21 58	22 23	3	0 35	" " "	
316	April 2	16 4	—	—	16 18	16 18	1	0 14	" " "
317	" 10	21 27	—	—	21 58	22 46	2	1 19	" " "
318	" 17	12 39	—	—	12 49	12 47	4	0 8	Shock felt.
319	" 18	13 11	13 42	13 53	16 27	10	3 16	Thickening of line	
320	" 20	14 39	—	—	14 36	—	0 6	" " "	
321	" 21	18 55	—	—	18 59	—	0 4	" " "	
322	" 26	20 2	—	—	20 5	—	0 3	" " "	
323	" 27	17 39	—	—	17 34	—	0 4	" " "	
324	" 28	8 3	—	8 6	8 13	1.5	0 10	" " "	
325	" 30	19 46	—	19 48	19 57	17	0 11	" " "	
326	May 3	22 46	—	22 52	23 21	2	0 35	" " "	
327	" 4	10 26	—	10 33	10 36	1	0 10	" " "	
328	" 5	14 45	—	14 45	14 49	1	0 4	" " "	
329	" 28	17 0	—	17 4	17 13	1	0 13	" " "	
330	" 30	16 33	—	—	16 37	—	0 4	Thickening of line	
331	June 3	19 27	—	19 31	19 34	1.5	0 7	" " "	
332	" 4	13 9	—	—	13 12	—	0 3	Thickening of line	
333	" 14	19 25	—	19 26	19 34	7	0 9	Full swing.	
334	" 20	2 39	—	2 41	3 1	0.5	0 22	" " "	
335	" 22	7 55	—	7 59	8 3	1.5	0 8	" " "	
336	" 30	17 3	—	—	17 6	—	0 3	Thickening of line	

Period of boom = 18 seconds.  
1<sup>st</sup> turn of screw = 4mm. deflection.

Register from C. and G. S. Magnetic Observatory, near Honolulu, T.H.  
Observers, W. WEINRICH, JUN., and S. A. DEEL.

The period of the pendulum has been kept between 18 and 20 seconds, except during one or two short intervals. The sensitiveness has not been changed since September 23, 1903, when the instrument was readjusted. At the time the period was 20 seconds and a turn of one degree of the lever on the base screw produced a displacement in the end of the pendulum of 5.15mm., hence 1mm. displacement in the end of the pendulum corresponds to a tilt of 0°37'; this was redetermined on April 14, 1904, and was found to be practically the same. Since September 23 the period has varied only between 18 and 20 seconds, being 19 seconds in most cases.

The records of the instrument in its present location begin April 1, 1903, and the following table contains all earthquakes recorded up to June 30, 1904. All times given are Greenwich Mean Civil Time. The data are tabulated in essentially the same way as in Milne's circulars. As far as possible the following phases were identified and recorded, namely: the first preliminary tremor; second preliminary tremor; the beginning of large waves, or principal portion; the maximum; and of principal portion and the end of the earthquake.

The following abbreviations are used to indicate doubtful cases: D. doubtful; S.D. somewhat doubtful; V.D. very doubtful; Sw. mere swelling of the trace; D.M. diagrammatic maximum. Professor A. Inamura, in No. 16 of Publications of the Earthquake Investigation Committee in Foreign Languages, has called attention to the fact that the Milne pendulum often records a maximum when waves of approximately its own period and small amplitude reach the pendulum; this artificial maximum is called "diagrammatic."

On page 94 will be found noted the times for which there is no record from the instrument.

The normal width of the trace is 0.3mm.

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

A disturbance which occurs almost every day, beginning about midnight and lasting until 7 or 8 a.m., L.M.T., or in G.M.T. from 10h.30m. to 18h.30m., is an effect ascribed to air tremors. The times of beginning and end vary on different days, and on some days the effect is wholly lacking. According to Professor Milne this effect is associated with a falling temperature.

These air tremors often begin or end with a few (3-12) long waves of small amplitude and a period varying in different cases from 50 to 240 seconds.

The following list contains the most marked cases:—

Date	Time	Remarks
1903, April 24	10 19.1-10 29.1	Twelve waves, 50sec. period.
" "	24 10 33.6-10 43.6	Eleven waves of 55sec. period.
May 7	10 07.3-10 13.0	Eight waves, 58sec. period.
July 1	About 12 00	Five waves, 73sec. period, followed for about an hour by waves 19-55sec. period, superposed on similar long-period waves.
Oct. 1	About 18 30	Eight waves, 90sec. period.
" "	28 13 02 -18 02	Frequent waves, about 210sec. period.
Dec. 16	16 02.3-17 01	Waves, 240sec. period.
" "	16 18 23 -19 12	Waves, 188sec. period.
1904, Jan. 20	About 10 15	Five waves, 180sec. period, about 5hrs. previous to earthquake of Jan. 20
" "	22 " 20 00	Waves 120sec. period.
Mar. 15	" 8 16	Four waves, 75sec. period.
" "	15 " 20 25	Ten waves, 84sec. period.
" "	17 15 12.6-15 24	Seven waves, 98.6sec. period.

It is interesting to note that these waves occur at the beginning or ending of air tremors, except in the case of March 9, 1904.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
<b>1903</b>								
1	April 3	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	Probably distant earthquake.
	" 12	3 18.6	3 26.2	3 33.8	—	1.5	—	Typical small earthquake. D.M.
3	" 21	9 24.1	—	9 36.8	5 44.4	1.35	—	D.M. Sw.
4	" 29	0 16.8	—	0 43.9	1 41.4	0.4	—	Sw.
5	" 29	4 18.4	4 31.4	4 34.3	—	0.55	—	Three distinct maxima.
	" "	" "	" "	4 39.4	—	0.5	—	" " "
6	May 8	4 12.6	4 21.9	4 24.4	6 24.9	0.6	—	D.M.
7	" 13	6 44.5	6 59.3	7 10.8	9 23.3	2.2	—	" " "
8	" 15	11 57.3	12 04.1	12 04.7	12 58.1	1.1	—	Small true maximum.
*9	" 16	—	2 57.5	—	3 06.7	—	—	S.D. Sw.
10	" 23	22 21.9	22 30.6	22 31.4	23 37.7	0.65	—	True max.
11	June 2	13 25.8	13 31.3	13 32.3	—	1.9	—	Typical large earthquake. Rapid period waves
	" "	" "	" "	13 36.8	15 12.3	4.4	—	" " "
12	" 7	9 12.5	9 39.7	9 48.0	10 34.5	1.2	—	" " "
13	" 8	7 20.4	—	—	7 42.4	—	—	Sw. D.M.
*14	" 10	16 59.7	—	17 09.1	17 38.9	0.8	—	Taking time during P.T.
*15	July 2	21 23.4	21 35.9	21 37.3	—	1.1	—	Trace spoiled after 2h.37.3m.
16	Aug. 21	8 02.9	—	8 06.2	—	0.6	—	S.D.
	" "	" "	" "	8 11.9	8 18.2	0.8	—	" " "
17	Sept. 7	7 21.1	—	—	8 10.1	—	—	Trace poorly developed.
*18	" 10	10 55.5	—	—	11 04.0	—	—	S.D.
19	" 10	14 07.0	—	—	14 27.7	—	—	Sw.
20	Oct. 4	5 06.0	5 10.2	5 17.6	6 04.2	0.5	—	Max. doubtful. Very small.
21	" 17	—	1 46.3	1 51.8	2 16.8	0.5	—	Slight dist. 2h. 35.3m-2h.41.8m. D.M.
22	" 20	2 59.0	3 12.0	3 17.5	4 07.5	0.6	—	Max. definite.
23	" 29	14 29.2	14 42.0	14 49.8	—	2.25	—	D.M.
	" "	" "	" "	14 53.1	16 08.5	1.5	—	" " "
24	" 30	4 05.3	4 13.0	4 25.8	5 13.6	2.5	—	Slight dist. 3h. 49.3m-3h.53.3m, 6h. 35.5m-6h. 44.0m.



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

No.	Date	Com-mence-ment		L. W. Commence		Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.					
25	Nov. 10	21 05.7	21 10.5	21 17.4	22 04.5			1.5		D.M. Maximum doubtful.
26	" 17	20 37.3	20 55.3	21 01.3	21 30.7			0.5		
*27	" 24	14 09.5	14 15.9	14 17.9				0.6		D.M.
28	Dec. 1	6 58.4	6 59.9	7 05.9	14 47.4			0.9		D.M.
29	" 5	21 24.2	21 35.0		8 08.2					
30	" 7		15 28.8	16 33.3				2.8		D.M. Beginning and end obscured by air tremors. Time break 18h. 34.7m—18h. 28.7m. Max. very distinct. No distinct maximum.
31	" 10				19 29.3					Sw.
32	" 23	1 11.0	1 17.3	1 22.5	3 00.7			3.0		
33	" 23	23 41.3	23 46.3		23 57.5					
34	" 24	21 31.3			22 10.7					
35	" 28	3 08.3	3 29.1	3 38.5	4 30.1					
<b>1904</b>										
36	Jan. 3		21 49.4	21 52.6	21 56.7			0.5		D.M. Sw. Dist. 21h. 40.6m.—21h. 43.7m.
37	" 10	2 55.5	3 13.5	3 19.5	4 01.5			3.0		D.M.
38	" 20	15 04.2	15 14.1	15 16.7				1.65		Typical earthquake.
39	" 29	0 19.0	0 41.3	0 44.8	1 25.0			0.7		
40	Feb. 4		21 23.8	21 26.9						Air tremors at beginning and end.
41	" 8	10 17.2			10 25.4					S.D. Sw.
42	" 18	6 15.2		6 19.8	6 25.5			0.5		Sw.
43	March 1	15 19.7	15 27.7	15 30.1				0.65		Air tremors at end.
44	" 1	16 23.4	16 31.1	16 36.5	17 00.3			4.0		V.D. Sw.
45	" 4	0 11.2			0 32.7					
*46	" 4	10 46.1	11 03.1	11 08.0	11 24.0			0.5		Distinct long period waves from 13h. 31m. to 14h. 05.2m.
	" 9									
47	" 16		7 52.8	7 55.3				0.75		First max. instantaneous, second is D.M. No P.T. Air tremors at end.
				7 57.3				1.0		
48	" 16		22 08.8	22 10.3				0.55		S.D.
				22 12.8	22 35.3			0.55		
49	" 18	14 00.2	14 10.0	14 12.2	14 34.0			0.5		Sw. D.M.
50	" 19	6 47.9	7 14.9	7 18.2	9 11.8			3.85		Typical earthquake. D.M.
51	" 21	7 09.4	7 10.4	7 14.1	7 50.4			0.5		Sw. P.T. indistinct.
52	" 31		3 02.4	3 10.9	3 39.7			0.55		
53	April 4	10 39.3	11 04.5	11 32.0						
	" 4			11 44.4	12 52.8			1.6		Local earthquake at about 18h. 05.3m. Trace interrupted from 17h. 59.3m. to 18h. 15.3m.
54	" 5	11 00.6	11 04.6	11 15.6	11 47.9			0.25		
55	" 12	18 59.6	19 04.4	19 07.4	20 42.6			2.3		Trace interrupted 19h. 17.6m.—19h. 25.6m.
*56	" 14	1 32.2	1 34.7	1 40.3	2 20.5			0.85		
57	May 1		16 05.4	16 09.6				3.0		Trace poorly developed.
58	" 1	23 42.8	23 55.1	24 00.1	24 29.9			0.8		
*59	" 14		14 08.1	14 14.4				1.6		Air tremors at beginning and end.

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

No.	Date	Com-mence-ment		L. W. Commence		Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.					
60	June 4			22 58.5	22 59.0					Local earthquake, felt in Honolulu. Pendulum held by spider's web; record imperfect.
G1	" 18	6 17.7	6 28.4	6 32.6	7 41.6			0.6		
62	" 24	1 20.4	1 28.4	1 33.9	2 25.4			2.0		D.M. Trace poorly developed.
*63	" 25	2 41.9		2 50.5	2 57.7			0.3		Sw.
64	" 25	21 08.8	21 15.4	21 15.8				2.6		Distinct shocks at 21h. 15m., 21h. 18.9m., 21h. 21.9m., 21h. 22.8m., 5th and 6th maxima. D.M. Slight disturbance from 20h. 12.6m. to 20h. 24.5m.
				21 21.9				2.0		
				21 22.8				2.5		
				21 27.8				11.4		
				21 32.0	25 03.3			5.9		
*65	" 26	10 48.0	10 58.0	11 08.5	12 24.1			2.5		D.M.
66	" 27	0 09.8	0 23.1	0 24.7				2.0		First four maxima due to distinct shocks, fifth somewhat di-
				0 29.1				3.0		
				0 30.4				4.9		
				0 31.0				10.1		
				0 37.4	4 00.0			14.05		grammatic.

Periods for which there is no record:—

From	To	Cause
1903	1903	
April 13	April 13	24 00
" 15	" 15	3 59
May 18	May 19	4 26
June 15	June 16	17 07
" 18	" 19	1 32
" 19	" 20	9 00
" 20	" 20	22 00
July 1	July 1	8 40
" 1	" 1	18 50
" 17	" 17	13 57
" 18	" 18	19 02
" 18	" 19	18 06
" 28	" 28	18 12
" 29	" 29	18 02
" 30	" 30	17 12
Aug. 2	Aug. 11	No trace.
Sept. 17	Sept. 23	23 49
Nov. 30	Nov. 30	18 44
1904	1904	
April 16	April 22	23 14
" 22	" 24	19 25
May 22	May 23	3 06
June 2	June 2	19 06
" 6	" 7	18 51
" 25	" 25	18 56
" 26	" 26	20 32

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.
<b>1906.</b>							
1	Jan. 3	H. M. 2 8.2	H. M. 2 22.6	H. M. 2 25.9	H. M. 3 3.0	M.M. 1.9	—
2	" 18	22 4.6	22 7.7	22 8.4	22 34.5	0.85	—
	" 19	4 0.0	—	—	8 0.0	—	Small tremors.
	" 19	13 0.0	—	—	0 0.0	—	" "
	" 20	0 0.0	—	—	6 0.0	—	Very small tremors.
3	" 21	12 3.3	14 8.8	14 23.6	15 44.0	1.5	—
	" 22	0 0.0	—	—	4 22.0	—	Small tremors.
4	" 22	4 21.8	4 34.2	4 37.0	5 16.0	1.5	—
	" 22	5 30.0	—	—	0 0.0	—	Small tremors.
	" 23	0 0.0	—	—	17 26.0	—	" "
5	" 23	17 26.0	17 41.6	17 45.4	18 22.5	0.5	—
6	" 24	2 43.4	2 48.9	2 52.0	3 2.9	0.7	—
7	" 27	10 13.9	—	11 19.9	11 26.7	0.4	—
No record from 1906, Jan. 31, 15h., to Feb. 1, 1h. 30m.							
8	Feb. 1	2 34.2	2 48.3	2 48.7	3 41.9	2.1	—
9	" 5	4 37.7	4 48.2	5 3.9	5 27.4	0.8	—
10	" 8	0 25.3	0 45.4	0 46.9	1 8.6	0.5	—
11	" 10	8 56.9	9 2.2	9 6.0	9 29.7	0.85	—
12	" 12	6 56.8	7 18.0	7 27.8	7 50.8	0.3	—
13	" 13	—	5 39.5	5 40.1	5 47.0	0.5	—
14	" 15	14 39.6	—	14 46.6	14 50.1	0.3	—
15	" 17	0 53.3	0 54.9	0 58.1	1 30.1	0.4	—
16	" 19	4 8.3	4 15.4	4 29.9	5 18.7	14.9	—
17	" 20	5 55.1	6 4.7	6 7.8	6 11.5	0.3	—
	" 20	Small tremors	at 10 55	and 11 22.	—	—	—
					6 29.6	0.8	—
					8 4.3	0.9	—
18	" 21	3 38.2	—	8 31.9	12 8.0	0.9	—
				9 2.4	—	1.1	—
	" 22	0 0.0	—	—	24 0.0	—	Very small tremors at intervals.
	" 23	0 30.0	—	—	17 30.0	—	" " "
No record from 1906, Feb. 23, 22h. 45m., to Feb. 24, 1h. 30m.							
" " " " Feb. 25, 14h. 30m., to Feb. 26, 1h. 35m.							
19	" 27	20 2.3	20 31.5	20 49.3	21 8.8	0.5	—
	Mar. 1	12 10.0	—	—	14 45.0	—	Small tremors.
	" 3	9 15.0	—	—	11 0.0	—	" "
	" 5	12 30.0	—	—	14 15.0	—	" "
	" 6	1 30.0	—	—	2 0.0	—	" "
20	" 9	19 27.9	19 48.2	19 50.4	20 48.4	1.5	—
21	" 10	6 51.9	7 5.8	7 20.6	8 6.8	2.5	—
22	" 10	16 32.7	16 53.6	16 56.7	16 27.4	5.6	—
	" 11	0 0.0	—	—	4 0.0	—	Small tremors.
	" 11	9 0.0	—	—	9 30.0	—	" "
	" 11	21 0.0	—	—	21 30.0	—	" "
	" 13	12 0.0	—	—	14 0.0	—	" "
23	" 14	2 31.4	2 34.8	2 35.1	2 44.1	0.5	—
				2 36.3	—	0.5	—

Register from Perth Observatory, Western Australia—continued.

No.	Date	Com- mence- ment	L.W. Com- mence	Max.	End	Max. Ampli- tude	Remarks
24	Mar. 16	H. M. 22 59.6	H. M. 23 9.1	H. M. 23 24.0	H. M. 23 43.3	M.M. 0.5	—
	" 18	21 45.0	—	—	22 15.0	—	Small tremors.
	" 20	0 0.0	—	—	2 0.0	—	Very small tremors
25	" 20	2 0.7	2 12.9	2 16.7	2 50.0	4.6	—
	" 20	7 10.0	—	—	7 30.0	—	Small tremors.
26	" 21	None.	23 52.7	—	—	—	—
	" 22	—	—	0 10.5	0 34.0	0.9	—
	" 22	12 30.0	—	—	0 0.0	—	Very small tremors at intervals.
	" 23	0 0.0	—	—	7 15.0	—	Frequent small tremors.
	" 23	7 30.0	—	—	0 0.0	—	Very small tremors at intervals.
	" 24	0 0.0	—	—	4 30.0	—	Frequent " "
	" 24	4 30.0	—	—	10 30.0	—	" " at intervals.
	" 26	14 30.0	—	—	0 0.0	—	Frequent " "
	" 27	0 0.0	—	—	1 30.0	—	" "
	" 27	5 0.0	—	—	12 0.0	—	" "
27	" 28	—	6 7.2	6 7.8	6 16.9	0.4	—
				17 6.1	17 39.4	0.9	—
28	" 28	17 0.1	17 4.9	17 8.9	17 39.4	1.2	—
29	" 28	18 23.3	18 31.2	18 46.8	19 46.0	5.0	—
	" 29	12 55.0	—	—	13 45.0	—	Displacement of pendulum.
	" 30	3 0.0	—	—	14 0.0	—	Small tremors at intervals.
30	" 31	2 11.5	2 17.1	2 18.3	2 24.1	0.5	—
	" 31	10 45.0	—	—	13 45.0	—	Frequent small displacements of pendulum.
	Apr. 2	12 0.0	—	—	14 15.0	—	" " "
	" 3	11 30.0	—	—	13 30.0	—	" " "
	" 4	11 20.0	—	—	13 45.0	—	" " "
				22 45.3	23 0.4	1.2	—
31	" 5	22 35.1	22 41.3	53.1	57.7	1.4	—
				1.0	—	—	—
32	" 6	16 19.6	16 24.8	16 27.8	16 38.6	0.25	—
33	" 8	1 12.6	1 13.6	1 14.2	1 26.5	1.0	—
34	" 10	21 55.5	22 28.0	22 44.9	23 47.5	0.4	—
				22 48.0	—	0.3	—
35	" 13	5 29.1	5 32.4	6 4.9	6 48.6	0.3	—
36	" 13	19 40.6	19 43.9	—	20 56.1	—	No definite max.
37	" 14	0 27.7	0 58.2	1 4.0	1 22.5	0.5	—
				4 26.5	2.0	—	—
38	" 14	4 6.3	4 14.3	4 38.5	5 39.5	1.8	—
No record from 1906, April 14, 8h. 0m., to April 17, 1h. 30m.							
39	" 18	13 35.2	14 15.9	14 26.7	16 37.9	2.75	—
				37.7	—	2.55	San Francisco earthquake.
				42.8	—	2.6	—
				51.7	—	2.4	—
				15 3.1	—	2.3	—
40	" 19	6 24.7	7 22.9	7 27.2	8 40.4	4.0	—
41	" 25	1 38.2	—	—	2 17.9	—	Film changed during quake.

Register from Perth Observatory, Western Australia—continued.

No.	Date	Com- mence- ment	L. W. Com- mence	Max.	End	Max. Ampli- tude	Remarks
	Apr. 25	H. M. 10 40.0	H. M. —	H. M. —	H. M. 10 55.0	MM. —	Small tremors.
42	" 29	6 56.0	—	—	6 59.0	—	" "
"	" 29	None.	16 45.2	16 46.2	17 34.1	0.5	" "
43	" 30	2 6.9	—	—	2 31.9	—	Too small to meas- ure max.
	May 1	12 5.0	—	—	13 45.0	—	Displacement of boom.
44	" 2	7 16.9	7 27.9	7 32.3	7 56.8	1.0	—
"	" 2	12 10.0	—	—	13 40.0	—	Displacement of boom.
"	" 20	0 0.0	—	—	6 0.0	—	Frequent small tremors.
45	" 20	17 41.5	—	—	17 44.8	—	Too small to meas- ure max.
46	" 21	13 1.1	13 7.5	13 11.7	13 47.4	1.35	—
"	" 22	15 55.9	—	—	16 7.2	—	Several small tremors.
"	" 31	12 0.0	—	—	14 0.0	—	Displacement of boom.
47	June 1	4 35.8	4 45.6	4 56.0	6 30.1	14.8	—
48	" 1	6 37.3	6 52.3	6 55.9	7 34.9	1.0	—
No record from 1906, June 1, 22h. 30m., to 1906, June 2, 1h. 40m.							
"	" 2	5 0.0	—	—	10 15.0	—	Several small tremors.
49	" 2	14 35.3	14 44.3	14 48.1	15 18.8	1.0	—
"	" 4	1 0.0	—	—	8 30.0	—	Several small tremors.
"	" 6	12 0.0	—	—	12 30.0	—	" " "
"	" 7	2 15.0	—	—	5 0.0	—	Frequent " " "
"	" 8	3 35.0	—	—	24 0.0	—	" " "
50	" 10	21 9.1	21 14.7	21 15.9	21 43.1	0.4	—
51	" 11	11 47.5	11 52.2	11 53.2	11 58.9	0.7	—
"	" 14	0 0.0	—	—	24 0.0	—	Very small tremors all day.
No record from 1906, June 16, 2h. 0m., to 1906, June 23, 1h. 40m.							
"	" 23	4 30.0	—	—	9 25.0	—	Frequent very small tremors.
52	" 23	9 26.1	9 30.3	9 31.4	9 45.6	0.5	—
"	" 23	16 30.0	—	—	0 0.0	—	Frequent small tremors.
"	" 24	0 0.0	—	—	11 0.0	—	" " "
53	" 24	11 34.0	11 37.5	11 52.2	12 44.7	1.6	—
"	" 27	8 10.0	—	8 11.5	8 13.5	0.5	—
"	" 28	12 0.0	—	—	13 15.0	—	Slight displacement of boom.

1906, Jan. 17. Imm. = 0".60.  
 March 6. Imm. = 0".60.  
 April 25. Imm. = 0".68.

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	Dura- tion	Remarks
<b>1905.</b>								
July	1	H. M. 1 01.8	H. M. 1 22.4	H. M. 1 24.4	H. M. 1 26.5	MM. 2.1	H. M. 1 05.2	—
"	9	Indefinite	10 30.2	11 20.4	11 32.5	2.85	Indefinite	P.T.'s and A.T.'s observed by N.T.'s
"	11	15 57.2	—	16 08.6	—	0.35	0 59.7	Swellings merely.
"	17	0 29.4	0 36.7	0 38.2	0 39.3	1.5	1 37.3	—
"	23	3 06.8	3 17.2	4 19.3	5 28.6	5.8	4 12.5	—
"	27	—	—	23 23.0	—	—	—	V. slight swelling.
"	31	—	—	9 03.5	—	—	—	" " "
Aug.	4	—	—	7 31.7	—	—	—	" " "
"	8	Indefinite	13 21.6	13 23.2	13 38.6	10.3	Indefinite	P.T.'s and A.T.'s obsd. by N.T.'s
"	11	—	—	—	—	—	—	Small tremor storm between 2h. 57.3m. and 2h. 57.3m.
"	12	13 20.6	—	13 22.9	—	—	Indefinite	A.T.'s obsd. by N.T.'s
"	15	—	—	4 42.1	—	—	—	Very slight.
"	15	Indefinite	—	8 12.1	—	0.8	Indefinite	P.T.'s and A.T.'s obsd. by con- tinuous tremors.
"	29	4 11.3	—	4 12.4	—	1.0	0 07.8	—
Sept.	4	4 41.9	—	—	—	—	0 08.2	Slight swelling.
"	4	5 39.8	—	—	—	—	0 06.2	" "
"	6	4 42.4	—	4 46.0	—	0.5	0 27.4	" "
"	8	2 07.8	—	3 51.9	—	0.3	1 05.5	/ Origin India.
"	12	—	—	21 59.8	—	—	—	Very slight.
"	15	6 22.8	6 52.8	6 55.9	7 13.5	2.2	3 20.7	—
"	15	22 43.5	—	22 51.3	—	0.6	0 49.3	Thickening of line.
"	16	—	—	6 24.9	—	—	—	" "
"	18	—	—	9 07.0	—	—	—	" "
"	29	Indefinite	12 09.4	12 30.1	12 49.7	7.55	Indefinite	P.T.'s and A.T.'s obsd. by N.T.'s
Oct.	8	6 22.9	—	12 33.2	—	—	0 05.1	Very slight.
"	10	Indefinite	18 09.0	18 11.0	18 16.7	3.2	Indefinite	P.T.'s and A.T.'s obsd. by N.T.'s
"	13	Indefinite	—	5 29.9	—	0.6	Indefinite	—
"	21	Indefinite	18 43.7	18 45.8	18 48.4	1.4	Indefinite	P.T.'s and A.T.'s obsd. by N.T.'s
"	22	8 28.5	—	18 47.9	—	0.5	1 11.3	—
Nov.	1	10 49.7	—	9 11.9	—	2.35	1 32.0	—
"	2	4 13.2	10 54.3	10 57.9	11 00.0	—	0 12.4	Very slight.
"	2	9 09.1	—	4 14.3	—	—	0 26.9	—
"	9	19 47.9	—	9 12.7	—	0.85	0 23.7	Slight.
"	24	5 30.5	—	19 51.0	—	—	0 36.2	—
Dec.	4	23 08.0	—	5 40.8	—	0.25	0 27.9	—
"	17	6 17.3	—	23 11.1	—	0.3	1 18.6	—
"	21	4 44.2	—	6 39.0	—	0.9	0 20.7	Slight.
"	28	23 19.2	23 20.8	23 21.3	23 27.5	2.65	1 09.3	—

Register from the Royal Alfred Observatory, Mauritius,  
Director, T. P. CLAXTON.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Ampli- tude	Remarks
<b>1903</b>							
410	Oct. 1	H. M. 22 55-0	H. M. 8 6-9	H. M. 5 27-0	H. M. 23 2-0	MM.	—
411	" 4	17 19-8	—	—	17 27-0	—	—
412	" 14	6 58-1	7 5-1	7 7-4	—	0-5	D. of P <sub>1</sub> = 5-5m.
413	" 19	—	3 31-5	3 35-8	—	0-5	—
414	" 20	3 32-5	3 47-2	3 48-0	—	0-25	D. of P <sub>1</sub> = 10-9m.
415	" 21	0 24-0	—	—	0 28-0	—	—
416	" 21	—	10 2-2	—	11 10-0	—	E.-W. boom disturbed by insects. Max. in N.-S. 10h.6m., ampl. 6-3mm.
417	" 21	17 36-0	—	—	17 41-0	—	—
418	" 24	—	1 24-7	1 25-0	1 40-0	1-5	—
419	" 25	—	—	1 41-0	—	0-6	An apparently seismic movement among frequent A.T's.
420	" 29	14 44-2	15 12-2	15 20-0	15 40-0	1-0	—
421	" 30	3 50-4	4 50-4	4 53-9	—	2-0	—
422	Nov. 10	17 42-4	—	—	17 56-7	1-7	Frequent thickenings of trace.
423	" 10	18 1-9	18 9-7	18 16-9	18 37-7	0-6	D. of P <sub>1</sub> = 6-5m.
424	" 10	21 44-2	21 50-0	21 51-5	—	0-5	P <sub>1</sub> not shown.
425	Dec. 9	—	6 9-0	6 11-0	6 16-0	1-0	Seismic origin doubtful. Register faint.
426	" 10	—	17 16-0	17 23-6	—	—	—
427	" 13	19 44-4	—	20 47-3	20 59-1	—	Slight thickening of trace. Seismic origin doubtful. D. of P <sub>1</sub> = 3m.
428	" 18	14 1-4	14 6-8	14 6-9	14 12-0	0-5	—
<b>1904</b>							
429	Jan. 10	3 13-0	3 47-1	3 48-6	3 56-6	—	Thickening of trace.
430	" 20	15 15-4	16 9-4	16 16-4	17 20-0	0-85	—
431	" 29	0 32-8	—	0 33-3	1 5-0	0-25	—
432	" 29	3 45-0	—	5 49-0	6 15-0	—	Frequent irregular thickenings of trace.
433	Feb. 4	21 10-0	—	21 11-7	21 13-7	—	Isolated; followed by occasional thickenings of trace. P <sub>1</sub> not shown.
434	" 4	21 57-7	22 3-7	22 14-7	23 4-7	0-4	—
435	Mar. 31	2 38-7	2 45-7	2 48-2	3 31-7	0-5	D. of P <sub>1</sub> = 2m.
436	" 31	6 9-7	6 18-7	6 18-7	6 31-7	0-4	—
437	April 4	10 24-3	10 58-8	11 12-3	—	1-0	Register faint. D. of P <sub>1</sub> = 12m.
438	" 5	10 36-9	11 0-9	11 3-4	11 27-0	0-3	—
439	" 11	14 42-8	14 50-8	14 53-3	15 15-8	0-3	—
440	" 24	7 12-3	7 22-8	7 25-8	—	0-4	—
441	" 26	10 11-9	—	—	10 22-9	—	Frequent irregular thickenings of trace.
442	May 1	7 21-4	7 28-4	7 29-4	8 3-4	—	—
443	" 1	15 50-4	16 5-4	16 16-9	16 51-4	1-0	—
444	" 2	0 8-8	—	0 15-8	—	—	Several slight thickenings of trace.
445	" 2	10 58-8	11 1-8	11 3-8	11 15-3	0-6	—
446	" 15	22 15-0	—	22 16-3	22 20-0	—	Isolated thickening of trace.
447	" 19	16 27-9	—	16 30-9	16 35-9	—	—
448	" 21	11 13-1	—	—	11 17-4	—	Very slight thickening of trace.
449	" 26	4 2-1	—	4 7-1	4 13-1	0-3	Possibly air tremors.
450	" 29	0 7-7	0 14-7	0 19-7	0 30-2	0-3	Tremors for several hours afterwards.
451	" 31	3 41-2	—	3 47-7	4 0-2	0-3	Isolated thickening of trace.
452	June 25	15 12-5	—	15 16-0	15 20-5	—	Isolated; followed by occasional thickenings of trace. P <sub>1</sub> not shown.
453	" 25	15 35-5	15 46-0	15 54-5	17 35-5	2-0	—
454	" 25	21 21-1	22 0-1	22 9-6	23 41-1	—	—
454	" 26	2 15-0	—	—	3 15-0	—	Occasional thickenings of trace.
455	" 27	0 28-2	1 11-7	1 38-2	4 5-2	0-7	—
456	July 23	0 56-1	1 16-1	1 19-6	1 39-6	—	—
457	" 23	—	—	16 9-1	—	—	Register faint.
458	" 25	1 58-6	—	2 1-1	2 5-1	0-5	Active air tremors commence at 2h.30m.

Register from the Royal Alfred Observatory, Mauritius—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Ampli- tude	Remarks
459	July 27	H. M. 5 57-6	M. H. —	M. H. —	H. M. 6 3-6	H. M. —	Very slight thickening of trace.
460	" 27	16 44-6	—	16 49-6	17 7-0	—	—
461	Aug. 3	11 12	—	11 13-3	11 29-8	—	Irregular tremors. Clock error uncertain.
462	" 3	12 37	—	12 45-3	13 3-8	—	—
463	" 5-9	23 22-4	—	23 32-9	0 4-9	—	Frequent thickenings of trace.
464	" 11	6 43-3	—	—	7 26-3	—	—
465	" 14	0 25-9	—	3 21-9	5 15-9	—	Active air tremors; some movements look seismic.
466	" 18	2 30	—	—	5 30	—	—
467	" 18-19	22 20	—	—	5 10	—	—
468	" 23	13 20-5	—	—	13 25-5	—	Irregular thickenings of trace.
469	" 24	20 36-3	21 45-3	23 0-8	23 25-3	0-9	—
470	" 25	0 0	—	—	6 0	—	Active air tremors.
471	" 27-28	22 0	—	—	5 9	—	—
472	" 30	12 2-5	12 16-5	12 23-5	12 51-5	0-8	D. of P <sub>1</sub> = 11m.
473	Sept. 11	4 7-8	—	5 13-8	5 27-8	0-4	—
474	" 11	6 15-8	6 21-8	6 24-8	6 53-8	0-4	D. of P <sub>1</sub> = 3m.
475	" 13	18 3-1	—	18 12-1	18 16-1	—	Isolated thickening of trace.
476	" 16	13 29-8	—	13 44-8	13 46-8	—	—
477	" 19	5 50-0	—	6 1-0	6 31-6	—	Frequent thickenings of trace.
477	" 19	6 54-1	—	7 18-6	7 37-6	—	—
477	" 25	15 30	—	—	16 0	—	Frequent slight thickenings of trace.
478	" 27	1 0	—	—	4 0	—	—
479	Oct. 2	2 52	—	—	3 42	—	—
480	" 3	3 15-2	3 16-7	3 19-7	5 1-7	2-0	Register faint. P <sub>1</sub> not shown.
481	" 4	2 43-8	3 15-8	3 17-8	4 19-8	—	D. of P <sub>1</sub> = 7-3m.
482	" 5	17 1-1	—	17 4-1	17 7-1	—	—
483	" 11	6 23-9	—	—	7 4-9	—	Frequent slight thickenings of trace.
484	" 16	1 15-5	—	—	1 23-5	—	—
485	" 25	10 42-3	—	—	11 1-3	—	—
486	" 28	14 7-8	14 16-8	14 19-8	14 48-3	2-2	Beginning of disturbance abrupt.
487	" 31	21 0-8	—	—	21 6-3	—	Frequent slight thickening of trace.
488	Nov. 3	8 15	—	10 1-8	12 15	—	Frequent air tremors; movement at time of max. looks seismic.
489	" 5	7 57	—	—	8 7	—	Frequent very slight thickenings of trace.
490	" 6	0 10	—	—	2 10	—	Moderate A.T's possibly masked seismic.
490	" 6	0 45	—	—	8 15	—	Active A.T's } masked seismic movts.
491	" 8	6 15	—	7 33-2	9 15	—	Frequent thickenings of trace.
492	" 20	30 15	—	—	3 45	—	Active air tremors.
493	" 21	4 0-8	4 3-8	4 10-3	4 36-3	1-0	—
493	" 23	16 49-8	16 51-8	16 54-8	17 6-8	1-0	—
494	Dec. 1	20 15	—	—	3 45	—	Active air tremors.
494	" 4	3 55-5	3 44-0	3 46-5	3 58-5	0-7	—
495	" 4	3 51-6	—	3 54-1	3 59-1	0-4	—
495	" 4	4 40	—	4 44-1	4 48-1	0-6	In North-South only; barely perceptible in East-West.
495	" 4	10 36-6	10 39-1	10 40-6	10 44-6	0-5	—
496	" 19	5 43-8	—	5 46-8	5 48-8	0-7	Masked by air tremors.
497	" 20	5 43-8	—	5 46-8	5 48-8	—	Isolated thickening of trace.
497	" 20	6 3-8	6 22-8	6 24-8	—	0-5	D. of P <sub>1</sub> = 14-5m.
498	" 20	6 48-8	6 56-8	7 0-8	—	2-5	P <sub>1</sub> not shown.
498	" 23	15 40-8	—	—	16 12-3	—	Frequent thickenings of trace.
499	" 25	18	—	—	19 45	—	—
500	" 28	17	—	—	19 45	—	—
<b>1905.</b>							
501	JAN. 8	—	19 59	20 2-5	20 9	—	Mere thickening of the trace.
502	" 9	—	6 43-5	6 47-5	6 49	—	—
503	" 10	—	23 2	23 3-5	23 6	—	—
504	" 18	13 42-5	13 46-5	13 47-5	13 52-5	1-0	D. of P <sub>1</sub> = 2m.
505	" 18	13 58-5	14 9-5	14 12-5	14 39-5	1-2	" " " " = 7m.

Register from the Royal Alfred Observatory, Mauritius—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Ampli- tude	Remarks
506	Jan. 13	H. M. 15 38.5	H. M. 15 46.5	H. M. 13 49	H. M. 15 56	H. M. 0.8	D. of P. = 5m.
506	" 23	" 3.5	" 22 17.5	" 22 20.2	" 4 4.5	" 2.5	P. not shown.
509	Feb. 13	" 5 48.5	" 6 15.5	" 6 21	" 7 5.5	"	Register faint.
510	" 13	" 7 36.5	"	"	"	"	Several thickenings of the trace.
511	" 13	" 18 18.5	"	"	"	"	In E.-W. slight thickening. In N.-S. thin. In N.-S. with P. not shown.
512	" 14	" 6 0.5	"	"	"	"	Two minutes earlier in N.-S. Thickenings of trace. D. of P. = 7m.
513	" 17	" 12 1	" 12 15.5	" 12 18	" 12 4.8	"	Register in N.-S. lost in P. = 7m.
515	" 18	" 5 3	" 5 25	" 5 33	" 5 45	"	Register in N.-S. lost in P. = 7m.
516	" 27	" 18 50	" 19 16	" 19 18.5	" 19 30.5	" 0.7	In N.-S.
517	March 4	" 16 23	" 16 56.5	" 17 1	" 17 25	"	In E.-W. Thickenings of the trace.
518	" 5	" 0 17	"	" 0 19.5	"	"	Registered in N.-S.; lost in P. = 7m.
519	" 18	" 13 10.5	" 0 51	" 13 16	" 13 28	"	Thickenings of the trace.
520	" 19	" 0 23.5	" 4 38	" 4 43.5	" 4 20.5	" 4.0	Thickenings of the trace. A.I.'s present. P. not shown.
521	" 22	" 3 43.5	" 4 0.5	" 4 1.5	" 4 20.5	" 1.0	Thickenings of the trace. Register in N.-S. lost in P. = 7m.
522	April 4	" 1 0	" 1 8	" 1 22.5	"	"	Thickenings of the trace. Register in N.-S. lost in P. = 7m.
523	" 10	" 17 19	" 17 27	" 17 34	" 17 46	"	Thickenings of the trace. Register faint.
524	" 12	" 8 14	"	" 8 14	" 8 4	"	Successive series of active irregular movements, which in the latter part of the series appear to be of irregular thickening of the trace.
525	" 20	" 9 42	" 9 46.5	" 9 48	" 9 57	" 0.5	Successive series of active irregular movements, which in the latter part of the series appear to be of irregular thickening of the trace.
526	May 6-9	" 20 20	"	"	"	"	Successive series of active irregular movements, which in the latter part of the series appear to be of irregular thickening of the trace.
527	" 9	" 0 12	"	"	"	"	Successive series of active irregular movements, which in the latter part of the series appear to be of irregular thickening of the trace.
528	" 9	" 2 18	"	"	"	"	Successive series of active irregular movements, which in the latter part of the series appear to be of irregular thickening of the trace.
528	" 17	" 10 22	" 10 36.5	" 10 36.5	" 11 6	"	Irregular thickening of the trace.
529	" 18	" 13 50	" 14 33	" 14 38	" 15 25.5	" 1.2	D. of P. = 11m.
530	June 2	" 0 54.5	" 6 4.5	" 6 7.5	" 6 55.5	"	Thickenings of the trace.
531	" 3	" 7 48.5	" 7 48.5	" 7 51.5	" 7 54	"	"
532	" 5	" 12 47.5	" 12 55	" 12 57.5	" 13 16	" 0.4	D. of P. = 7m.
534	" 9	" 12 47.5	" 13 25	" 13 26.5	" 13 47	" 1.1	D. of P. = 7m.
535	" 12	" 6 1.9	" 12 38	" 12 40.5	" 13 36	" 1.0	Thickenings of the trace.
536	" 14	" 12 22	" 17 36	" 17 37.5	"	"	Thickenings of the trace.
537	" 30	" 16 32.6	" 17 36	" 17 42	"	"	Thickenings of the trace.
538	July 11	" 2 43.5	" 18 0	" 18 3.5	" 9 38.5	" 2.5	Thickenings of the trace.
539	" 16	" 3 23.5	" 10 1.5	" 10 3.5	" 10 35	" 1.0	"
540	" 18	" 10 12	" 3 24	" 3 24	" 10 35	" 1.0	P. not shown.
541	" 23	" 8 9.5	"	"	"	"	Register faint.
542	Aug. 3	"	"	"	"	"	"
543	" 8	"	"	"	"	"	Thickenings of the trace.

Instrument mounted in N.-E. corner of Magnetic Basement, on August 27, on a concrete pillar the base of which is 22½ feet below the level of the ground.

544 Sept. 8 2 3.5 2 4 2 18  
 545 " 14 " 7 11 " 13 3  
 546 " 15 " 1 55 " 1 59 2 12.5  
 547 " 26 " 1 43 " 1 53 2 7 0.5  
 548 " 26 " 1 43 " 1 53 2 7 0.5  
 " 29 " 12 12.5 12 14 12 48

Register from the Royal Alfred Observatory, Mauritius—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Ampli- tude	Remarks
540	Oct. 19	"	"	"	"	"	"
550	Nov. 8	" 22 35	" 22 46	" 22 54	" 23 23	"	Felt at six Islands. Register faint.
551	Dec. 4	" 7 36.5	" 7 39	" 7 40.5	" 8 4.5	"	"
552	" 17	" 7 3.5	"	" 7 18.5	" 7 37	"	"
553	" 19	"	"	" 13 28.5	"	"	Thickenings of the trace

Oct. 1, 1903, to July 27, 1904 1mm. = 0.3 approx.  
 Aug. 3, 1904, to Dec. 28, 1904 1mm. = 0.26 approx.  
 Jan. 8 to Dec. 19, 1905 1mm. = 0.28 approx.

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\*\*NOTE: It appears that Page 103 and 104 are blank pages \*\*