

British Association for the Advancement of Science.

Circular No. 12, 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).

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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 eleven 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.
Observer, JOHN MILNE; Assistant, SHINOBU 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.

No.	Date	P.T. Commence		Max.		Max. Amplitude	Duration	Remarks
1905.								
946	Jan. 3	H.	M.	H.	M.	MM.	H. M.	B and C. Not on A.
		8	6.0	—	—	0.2	0 4	
947	" 3	9	23.6	—	—	0.2	0 4	B. Not on A.
		9	19.3	—	—	0.2	0 2	C.
948	" 9	6	37.6	—	—	0.4	0 6	B. Tremors present.
		6	38.6	—	—	0.5	0 7	C. Not on A.
949	" 13	14	15.5	14	35.2	3.0	1 5	B. Tremors present.
		14	15.5	14	39.3	3.0	1 20	C. Tremors present. Not on A.
950	" 13	19	16.6	—	—	0.5	0 15	B. Tremors present.
		19	18.7	—	—	0.4	0 25	C. Tremors present. Not on A.
951	" 17	9	1.7	—	—	0.2	0 4	B.
		9	3.7	—	—	0.2	0 4	C. Not on A.

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

No.	Date	P.T. Commence		Max.		Max. Amplitude	Dura- tion	Remarks
		H.	M.	H.	M.	MM.	H.	
952	Jan. 20	2	41.1	2	45.0	1.0	0 10	A. Tremors present.
				2	48.0	0.1	0 6	B. Tremors present.
				2	44.9	0.7	0 10	C. Tremors present.
953	,, 20	18	19.0	18	46.0	0.5	0 46	A.
		18	27.3	18	31.5	0.4	0 30	B.
		18	28.3	18	37.6	0.4	0 25	C.
954	,, 20	23	37.0	—	—	0.2	0 17	A.
		23	32.5	—	—	0.3	0 10	B.
		23	32.5	—	—	0.2	0 10	C.
955	,, 22	3	4.3	3	53.0	4.0	2 10	B. A not working.
		3	9.5	3	50.9	4.0	2 10	C.
956	,, 29	12	45.1	—	—	0.7	0 8	B. Not on A.
		12	44.1	12	46.2	1.0	0 13	C.
957	,, 31	9	49.6	—	—	0.2	0 12	A. Not on B and C.
958	Feb. 5	7	46.3	—	—	0.2	0 5	A. Not on B and C.
959	,, 7	20	56.0	20	59.0	0.5	0 12	A. Not on B and C.
960	,, 13	6	8.1	6	39.1	1.2	?	B. A not working.
961	,, 14	6	8.1	6	45.3	1.8	1 45	C.
		8	47.3	9	35.9	4.0	?	B. A not working.
962	,, 15	8	48.3	9	40.1	4.0	?	C.
		7	41.5	—	—	0.2	0 32	B. Not on A.
963	,, 17	7	54.5	—	—	0.2	0 3	C.
		?	?	12	26.8	2.0	?	B. Not on A.
964	,, 19	12	11.1	12	26.8	4.0	1 12	C.
		4	59.4	6	1.5	0.7	3 10	B. Tremors present.
		4	39.8	6	5.6	1.5	3 26	C. Tremors present. Tremors on A.
				6	12.9	—	—	—
965	,, 26	3	46.4	—	—	0.2	0 7	B. Not on A.
		3	49.5	—	—	0.2	0 4	C.
966	,, 27	18	8.9	18	51.0	0.7	>1 30	B. Not on A.
		18	2.8	18	50.0	0.5	>1 30	C.
967	March 4	16	33.2	17	17.3	1.0	1 28	B. Not on A.
		16	41.4	17	20.4	2.0	1 25	C.
968	,, 4	19	20.9	19	50.7	0.7	1 10	B. Not on A.
		19	28.1	19	51.7	1.0	1 10	C.
969	,, 4	23	46.0	24	34.6	2.0	2 12	B. Not on A.
		23	47.0	24	38.7	5.0	2 20	C.
970	,, 6	2	13.6	—	—	0.2	0 8	B. Not on A.
		2	13.6	—	—	0.2	0 6	C.
971	,, 6	16	5.5	—	—	0.2	0 4	B and C. Not on A.
972	,, 7	7	32.3	—	—	0.2	0 13	B. Not on A and C.
973	,, 14	10	57.3	11	17.8	0.5	22 or 4	B. A not working.
		or 11	16.3	—	—	—	—	—

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

No.	Date	P.T. Commence		Max.		Max. Amplitude	Dura- tion	Remarks.
		H.	M.	H.	M.	MM.	H.	
974	Mar. 16	11	12.2	11	14.2	0.2	0 4	C.
		12	46.9	—	—	0.2	0 2	A.
		12	15.1	12	29.6	0.3	0 22	B.
975	,, 16	12	15.9	—	—	0.2	0 19	C.
		13	54.7	—	—	0.2	0 3	A.
		14	9.7	—	—	0.2	0 3	A.
976	,, 18	14	42.6	14	48.0	0.2	0 12	B.
		14	39.1	14	51.4	0.2	0 17	C.
		14	39.1	14	47.3	0.2	0 13	A.
977	,, 19	10	40.3	—	—	0.2	0 3	A.
		13	47.0	—	—	0.2	0 25	A.
		0	17.2	1	40.2	2.5	6 0 abt.	A.
978	,, 21	0	17.6	1	25.8	1.5	3 0	B. Tremors at end.
				1	51.5	2.0		C. Tremors at end.
		0	17.6	1	20.7	3.0	3 0	B and C, but with amp. for C, 0.1. Not on A.
979	,, 22	16	4.1	—	—	0.2	0 3	B.
		12	11.4	—	—	0.2	0 3	C.
980	,, 22	12	12.4	—	—	0.1	0 3	C.
		15	50.7	16	35.2	1.5	4 0 abt.	B. Second max. 2h.30m. later.
		15	42.4	16	34.2	2.0	4 0 abt.	C. Second max. 2h.15m. later. Tremors on A, B, and C.
				16	38.3	—	—	—
981	,, 30	11	25.7	—	—	0.2	0 9	B. Second max. 1h.54m. later.
982	April 4	1	1.0	1	30.0	15.0	3 55	C. Second max. 2h.9m. and 2h.14m. later.
		1	6.2	1	22.7	13.0	3 45	B. Second max. 1h.54m. later.
983	,, 4	10	9.4	10	35.2	0.4	1 20	B.
984	,, 10	10	13.5	10	34.2	0.5	0 55	C.
		12	54.6	13	30.0	0.5	0 29	A.
985	,, 18	12	53.0	—	—	0.2	0 16	B.
		12	53.5	—	—	0.3	0 20	C.
986	,, 19	16	41.5	—	—	0.2	0 4	B and C. Not on A.
987	,, 19	12	57.0	13	52.9	1.0	?	B. Not on A.
		12	57.0	13	49.8	2.0	2 42	C.
988	,, 22	17	31.2	—	—	0.2	0 3	B and C.
989	,, 24	9	2.3	—	—	0.2	0 15	B.
		8	58.6	—	—	0.3	0 20	C.
990	,, 25	10	36.3	10	45.5	0.3	0 45	B and C, with amp. for B, 0.2.
991	,, 26	22	4.8	22	35.1	1.0	0 48	A.
		22	6.4	22	36.1	1.5	1 10	B.
992	,, 27	22	6.4	22	30.0	0.5	1 10	C.
		10	11.7	—	—	0.2	0 2	A only.
993	,, 28	17	48.9	—	—	0.2	0 3	C only.
994	,, 29	1	50.8	1	51.6	1.0	0 7	A.
		1	51.0	—	—	0.7	0 55	B.

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

No.	Date	P.T. Commence		Max.	Max. Amplitude.	Duration.	Remarks.
		H. M.	H. M.				
994	April 30	1 51.0	—	—	0.7	0 12	C.
		16 19.3	16 25.3	—	0.5	0 17	A.
		16 20.0	16 25.2	—	1.0	0 27	B and C. Tremors on B.
995	May 9	7 17.3	—	—	0.2	0 22	A.
		7 24.5	—	—	2.0	0 45	B. Tremors.
		7 25.5	—	—	1.0	0 45	C. Tremors.
996	„ 11	17 42.0	18 5.9	—	1.0	0 54	B and C. Not on A.
997	„ 12	3 32.8	3 36.0	—	0.5	0 8	B. Not on A.
		3 32.8	—	—	0.2	0 5	C.
998	„ 12	16 18.2	—	—	0.2	0 7	B. Not on A.
		16 15.2	—	—	0.2	0 7	C.
999	„ 12	17 51.4	—	—	0.2	0 10	B and C. Not on A.
1000	„ 17	14 18.4	—	—	0.2	0 5	B and C.
		13 58.9	15 5.0	—	0.7	2 36	A.
1001	„ 18	13 43.2	14 50.4	—	1.5	2 5	B.
		14 55.5	—	—	—	—	—
		15 1.8	—	—	3.0	2 5	C.
1002	„ 18	17 38.0	—	—	0.2	0 3	B and C.
1003	„ 20	5 55.9	—	—	0.2	1 25	A.
1004	„ 20	11 23.5	—	—	0.2	0 12	A.
		11 23.6	—	—	0.5	0 35	B.
		11 23.6	—	—	0.3	0 10	C.
1005	„ 27	14 55.7	—	—	0.2	0 30	B.
		15 17.5	—	—	0.2	0 4	C.
1006	„ 29	8 32.0	—	—	0.2	0 10	B and C.
1007	„ 30	14 48.6	15 29.9	—	0.4	0 55	B.
		15 21.7	15 50.8	—	0.2	0 35	C.
		18 59.0	19 15.5	—	0.5	0 35	B.
1008	„ 31	19 7.2	19 16.3	—	1.0	0 32	C.
		4 51.7	4 51.7	—	1.0	0 40	B. With tremors.
1009	June 1	4 45.5	4 51.7	—	1.5	0 40	C. With tremors.
1010	„ 2	6 3.1	6 37.2	—	1.0	?	B. With tremors.
1011	„ 2	6 3.1	6 37.2	—	2.0	1 30	—
		13 8.8	—	—	0.2	0 3	A.
1012	„ 2	14 46.8	—	—	0.2	0 3	A.
1013	„ 2	18 51.0	—	—	0.3	0 32	A.
		19 1.1	—	—	0.2	0 5	B and C.
1014	„ 3	4 47.1	5 22.2	—	0.5	> 1 0	A.
		5 17.7	5 21.8	—	0.5	0 20	B and C.
1015	„ 4	7 58.0	—	—	0.2	0 3	B and C.
		8 19.7	—	—	—	—	—
1016	„ 7	20 44.6	—	—	0.2	0 3	B and C.
1017	„ 8	12 42.6	—	—	0.3	0 3	B.
		12 44.6	—	—	0.2	0 3	C.
1018	„ 9	11 59.2	—	—	—	—	—
		and	—	—	—	—	—
		12 51.6	13 46.0	—	0.2	> 1 0	A.
1019	„ 11	13 7.5	13 36.5	—	0.7	1 30	B.
		13 7.5	13 43.8	—	0.5	1 26	C.
		8 28.3	8 31.0	—	0.3	0 13	A.
		—	—	—	—	—	—

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

No.	Date	P.T. Commence		Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.				
1020	June 12	5 27.3	6 53.0	—	0.5	2 15	A.
		5 28.3	6 10.0	—	0.4	1 50	B and C. amp. for B, Oh. 3m.
		—	6 46.5	—	—	—	—
1021	„ 14	10 53.2	13 24.0	—	1.5	3 53	A.
		12 4.5	13 8.0	—	1.0	1 50	B.
		12 4.5	13 0.8	—	2.0	1 50	C.
1022	„ 23	13 39.1	—	—	0.2	0 4	B and C.
1023	„ 23	16 3.6	—	—	0.2	0 3	C only.
1024	„ 26	23 54.8	—	—	0.2	0 2	B.
		23 56.9	—	—	0.2	0 2	C.
1025	„ 30	18 31.0	—	—	0.2	0 45	A.
		17 26.0	18 29.2	—	1.0	2 5	B.
		—	and	—	—	—	—
1026	„ 30	17 26.0	18 53.3	—	2.0	2 22	C.
		—	18 31.2	—	—	—	—
		—	and	—	—	—	—
1026	„ 30	20 46.9	—	—	0.2	0 17	A.
		20 33.3	20 49.0	—	2.0	0 40	B and C.
		—	—	—	—	—	—

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks.
1905.						
583	Jan. 3	9 26.2	—	0.25	0 3	—
584	„ 9	6 41.8	—	0.25	0 7	—
585	„ 12	9 7.5	—	0.25	0 4	—
		9 41.2	—	0.4	0 3	—
586	„ 13	19 23.0	—	0.25	0 9	Ill defined.
587	„ 20	2 43.7	2 46.3	0.6	0 7	—
588	„ 20	18 43.2	18 49.5	0.4	0 15	A.T. present.
589	„ 20	23 35.5	—	0.25	0 7	—
590	„ 22	3 8.9	3 59.3	1.5	1 32	—
591	„ 23	14 49.2	14 51.7	0.4	0 6	Seismic character doubtful.
592	„ 29	12 47.0	12 48.1	0.8	0 10	—
593	Feb. 13	6 40.7	6 57.2	0.7	0 53	—
		8 45.0	—	0.25	0 7	—
594	„ 14	9 10.5	9 40.6	7.3	1 56	—
		12 11.7	12 30.2	2.0	0 55	—
596	„ 27	18 8.3	—	0.25	0 9	—
597	„ 27	18 50.2	18 54.0	0.5	0 18	—
598	March 4	Two separate disturbances shown, with a max. amplitude of 0.9 mm., but the times cannot be given, as paper jammed frequently in rollers.				

Register from National Physical Laboratory, Kew Observatory—continued.

No.	Date	Commencement	Max.	Max. Amplitude.	Duration	Remarks.
599	Mar. 17	H. M. 22 28.5	H. M. 22 34.0	MM. 0.7	H. M. 0 17	—
600	" 19	0 21.1	{ 1 35.2 1 59.7 }	1.5	2 28	P.T. amp. small.
601	" 22	3 59.2	4 34.3	1.6	2 36	Movements after 5h. very small.
602	" 22	16 55.3	—	0.25	0 8	—
603	April 4	1 0.2	1 29.2	15.3	3 48	(Indian earth- quake.)
604	" 4	10 30.0?	—	—	0 10?	Record masked by changing of paper.
605	" 10	12 55.0	—	0.25	0 8	—
606	" 19	13 17.5	14 9.5	0.7	1 22	P.T. amp. small.
607	" 24	9 3.2	9 10.0	0.25	0 15	Ill defined.
608	" 25	10 44.5	—	0.25	0 15	Ill defined.
609	" 26	22 6.2	22 41.1	0.6	0 47	—
610	" 29	1 51.1	1 51.9	0.9	0 5	Practically no P.T.
611	" 30	16 18.8	—	0.4	0 15	—
612	May 9	7 12.6	7 27.9	0.8	0 42	—
613	" 11	17 42.5	18 19.0	0.5	0 50	Commencement ill defined.
614	" 12	3 38.0	—	0.25	0 8	—
615	" 18	14 3.3	15 12.2	0.7	2 12	A long series of small move- ments.
616	" 31	19 15.4	19 20.5	1.0	0 19	P.T. very short.
617	June 1	4 51.9	4 53.7	1.1	0 23	—
618	" 2	6 2.2	6 30.3	1.3	1 0	P.T. amp. small.
619	" 3	5 22.3	—	0.4	0 5	—
620	" 9	13 37.0	—	0.2	0 15	A slight broad- ening of the line.
621	" 12	6 36.7	—	0.3	0 32	—
622	" 14	12 13.8	13 6.2	1.0	1 43	—
623	" 30	18 4.0	19 8.4	1.4	1 38	Commencement ill defined.
624	" 30	20 47.4	20 54.0	1.0	0 27	—

Mean scale value 1mm. = 0".55 throughout.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1905								
599	Jan. 8	H. M. 12 3.7	H. M. 12 3.7	H. M. 12 3.7	H. M. 12 9.0	MM. —	H. M. 0 5	Small
600	" 9	—	6 35.4	6 43.7	7 1.0	0.2	0 26	End uncertain
601	" 13	13 57.7	14 27.7	14 38.1	15 47.3	0.7	1 50	—
602	" 13	—	19 19.8	19 27.7	19 46.9	0.5	0 27	—
603	" 17	—	11 26	—	11 44	—	0 18	Small; possibly A.T.
604	" 20	—	2 58.6	2 48.7	3 20.0	0.4	0 41	! Cornwall, Redruth
605	" 20	—	18 28.6	18 42.0	10 26.3	0.6	0 55	—
606	" 22	—	3 1.1	3 44.9	5 23.0	2.1	2 22	—
607	" 28	—	10 40.0	10 43.6	10 54.2	—	0 14	Small
608	" 29	—	11 42.0	11 45.4	11 59.0	0.8	0 17	—
609	" 31	—	10 46.2	10 50.9	10 56.8	0.4	0 11	—
610	Feb. 2	—	21 56.8	22 1.4	22 13.0	—	0 16	Small
611	" 4	—	7 32.0	7 38.5	7 45.6	0.1	0 14	—
612	" 6	—	22 55.0	22 58.3	23 5.0	0.2	0 12	—
613	" 9	—	—	13 32.0	—	—	—	Possibly insect.
614	" 13	—	6 29.3	6 45.0	7 35.2	0.6	1 6	Probably two dis- turbances.
615	" 14	—	0 27.0	0 37.2	0 48.3	0.3	0 21	—
616	" 14	—	9 7.7	9 41.5	12 5.3	3.6	2 28	—
617	" 14	—	12 49.2	12 55.7	13 6.9	0.2	0 18	Perhaps part of pre- vious shock.
618	" 15	—	2 59.3	—	3 16.2	—	0 17	Small
619	" 16	—	8 54.9	—	9 1.8	0.2	0 7	—
620	" 17	—	12 5.7	12 29.2	13 50.4	0.9	1 46	—
621	" 18	—	13 54.9	19 10.0	19 28.6	0.3	0 33	—
622	" 26	—	3 48.0	3 55.5	4 27.7	0.2	0 40	Possibly A.T.
623	" 27	—	18 6.1	18 9.3	19 36.0	0.7	1 30	Possibly A.T.
624	Mar. 4	—	17 4.7	17 14.2	18 12.2	0.6	1 8	—
625	" 5	23 40.2	0 23.3	0 33.9	2 8.3	1.1	2 48	—
626	" 6	—	2 9.4	2 17.3	2 42.0	0.5	0 33	—
627	" 11	—	10 57.2	—	11 6.1	—	0 9	Small
628	" 14	—	11 4.9	11 21.3	11 35.0	0.2	0 30	—
629	" 17	—	22 18.3	22 31.7	22 54.8	0.6	0 37	—
630	" 19	0 22.2	1 8.0	1 37.7	3 27.5	2.2	3 5	—
631	" 22	—	4 0.5	4 35.2	5 49.3	1.5	1 49	Perhaps one dis- turbance.
632	" 22	—	6 7.8	6 21.0	6 56.9	0.9	0 40	—
633	" 24	—	9 45.0	9 51.4	10 0.9	0.3	0 16	—
634	Apr. 4	—	0 58.8	1 30.6	5 21.0	11.6	4 22	—
635	" 4	—	10 31.7	10 36.3	10 45.4	—	0 14	Small
636	" 7	—	5 22.8	—	5 28.0	—	0 5	Small
637	" 10	—	12 52.2	12 55.3	13 8.2	0.4	0 16	—
638	" 14	—	1 0.7	—	1 8.0	—	0 7	Small
639	" 19	13 10.3	13 53.0	14 3.3	14 55.0	1.1	1 45	—
640	" 24	—	8 52.2	9 3.0	9 17.3	0.3	0 25	—
641	" 25	—	10 42.0	10 49.1	11 3.3	0.2	0 21	—
642	" 28	—	22 1.4	22 30.7	23 11.8	0.6	0 10	—
643	" 30	—	16 13.9	16 21.2	16 38.7	0.4	0 25	—
644	May 2	—	17 51.8	17 58.7	18 9.0	—	0 17	Small
645	" 5	—	7 11.8	7 33.2	7 58.6	0.6	0 47	—
646	" 11	—	17 32.0	17 41.1	18 36.5	0.5	1 4	—
647	" 12	—	3 31.9	3 36.1	3 50.4	0.2	0 19	—
648	" 12	—	16 19.8	16 24.4	16 32.9	0.3	0 13	—
649	" 18	14 9.0	14 45.1	15 6.0	16 18.3	1.4	2 9	—
650	" 25	—	4 31.9	—	4 39.9	—	0 9	Small
651	June 1	—	4 45.8	—	5 15.6	0.8	0 30	—
652	" 2	—	6 2.7	6 35.9	7 5.3	1.0	1 3	—
653	" 3	—	5 19.2	5 26.0	5 40.1	0.4	0 21	—
654	" 6	—	2 6.0	—	2 13.3	—	0 7	Possibly insect.
655	" 7	—	6 28.5	6 34.3	6 43.3	0.3	0 15	—
656	" 9	—	13 11.0	13 43.6	14 23.2	0.3	1 12	—
657	" 12	—	6 30.7	6 50.5	7 24.1	0.2	0 53	—
658	" 14	12 14.0	12 51.9	13 0.7	13 57.2	0.7	1 43	—
659	" 19	—	1 53.8	1 58.0	2 16.3	0.2	0 23	—
660	" 26	—	23 32.3	23 57.0	0 4.3	0.2	0 12	—
661	" 30	17 27.0	18 4.3	18 36.0	19 56.7	1.0	2 30	—
662	" 30	—	20 46.2	20 52.2	21 19.0	0.8	0 32	—

Register from Royal Observatory, Edinburgh.
Director, Dr. R. COPELAND. Observer, THOMAS HEATH.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
1905								
312	Jan 6-11	H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	A.T.s, very frequent.
313	" 13	14 25.0	—	14 47.0	15 13.0	0.2	0 48.0	—
314	" 16-18	—	—	—	—	—	—	A.T.s, frequent and strong.
315	" 20	2 41.0	2 46.5	2 49.5	2 58.0	0.5	0 17.0	Many A.T.s.
316	" 20-21	—	—	—	—	—	—	—
317	" 22	3 2.5	3 42.0	3 43.5	4 35.0	0.9	1 32.5	Slight tremor.
318	" 27	11 27.5	—	—	11 29.5	—	0 2.0	—
319	" 29	12 42.0	—	—	12 43.5	0.9	0 11.0	—
320	" 31	—	—	—	—	—	—	A.T.s.
321	Feb. 14	9 6.5	9 29.0	9 42.0	10 57.0	4.0	1 50.5	—
322	" 17	12 11.5	12 24.0	12 35.0	13 21.5	1.0	1 10.0	—
323	" 19-20	—	—	—	—	—	—	Frequent A.T.s.
324	" 19	5 30.0	—	7 2.5	8 18.0	0.4	2 48.0	Perhaps A.T.s.
325	" 26	—	—	—	—	—	—	Occasional A.T.s.
326	" 27	18 39.0	—	19 3.5	19 22.0	0.2	0 43.0	—
327	March 4	17 5.5	—	17 18.0	17 36.0	0.2	0 30.5	—
328	" 4	19 45.0	—	19 52.5	20 4.0	0.2	0 19.0	—
329	" 4-5	23 50.0	1 35.0	1 41.5	2 59.5	0.5	3 9.5	—
330	" 6	2 13.0	2 18.0	2 21.0	2 34.5	0.3	0 21.5	—
331	" 12	—	—	—	—	—	—	Small A.T.s
332	" 17	22 25.5	—	22 26.0	22 36.0	0.2	0 10.5	—
333	" 19	0 21.5	1 27.5	1 45.0	2 50.0	0.7	2 28.5	—
334	" 22	3 59.5	4 32.0	4 35.5	5 5.0	2.0	1 5.5	Perhaps A.T.
335	" 28	0 5.0	—	0 6.5	0 8.5	0.2	0 3.5	—
336	April 4	1 0.0	1 8.0	1 31.5	4 43.0	16.0	3 43.0	—
337	" 10	12 51.3	—	13 0.5	13 10.0	0.4	0 18.7	—
338	" 14	1 0.2	1 1.0	1 1.7	1 6.0	0.5	0 5.8	—
339	" 19	13 24.0	—	14 2.5	14 52.0	0.2	1 28.0	Zigzag line.
340	" 26	22 6.0	22 8.8	22 9.2	23 8.5	0.3	1 2.5	Second max. 22h. 23.0m.
341	" 29	1 53.0	—	1 55.0	1 58.5	0.5	0 5.5	—
342	" 30	16 20.0	16 25.0	16 29.0	16 35.0	0.5	0 15.0	—
343	May 9	7 18.5	—	7 29.0	7 48.0	0.3	0 29.5	—
344	" 18	14 17.5	—	15 7.0	16 8.0	0.5	1 50.5	—
345	" 20-21	18 32.0	—	—	11 57.0	—	17 25.0	Trace notched irregularly.
346	" 31	19 12.7	19 16.0	19 24.0	19 40.0	0.7	0 27.3	—
347	June 1	4 32.0	4 34.0	4 57.5	5 18.5	0.8	0 26.5	—
348	" 2	6 21.0	—	6 35.0	6 59.5	0.3	0 38.5	—
349	" 3	5 20.0	—	5 20.5	5 38.0	0.3	0 18.0	—
350	" 6	2 9.0	—	—	2 11.0	0.25	0 2.0	—
351	" 7	3 35.0	—	—	9 30.0	—	5 55.0	Wavy line.
352	" 14	12 8.5	—	13 29.5	13 58.0	0.5	1 49.5	—
353	" 23	13 41.0	—	13 42.5	13 44.0	0.3	0 3.0	—
354	" 30	17 56.5	—	19 10.0	19 47.0	0.5	1 50.5	—
355	" 30	20 46.5	—	20 50.5	21 11.5	0.6	0 25.0	—

1904, Dec. 30. 1° of footscrew = 3.55 mm. at end of boom.
1905, April 7. 1° of footscrew = 3.21 mm. at end of boom.
" May 31. 1° of footscrew = 3.42 mm. at end of boom.

Mean = 3.39 mm.

∴ 1 mm. displacement at end of boom = 0°.56 tilt of pillar.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
1905								
195	Jan. 20	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	—
196	" 29	2 42	2 47.5	2 54	3 5	0.5	0 23	—
197	Feb. 14	12 42.5	12 43.2	12 44	12 50.5	1.4	0 8	—
198	" 17	9 5	—	9 48	11 34	2.4	2 29	—
199	" 27	12 3.5	—	12 30.6	14 0	2.0	1 56	—
200	March 5	0 20.5	—	0 37.8	1 50	0.4	1 30	Doubtful. Commencement doubtful.
201	" 17	22 19.5	22 25.8	—	22 30.5	—	?	—
202	" 22	3 57.5	—	4 35.5	5 45	1.2	1 48	—
203	April 4	1 0.4	1 8.6	1 30.7	4 40	>14.0	3 40	—
204	" 6	—	—	19 52	—	—	—	Doubtful.
205	" 10	12 54.5	—	13 1	13 5	0.2	0 11	—
206	" 14	—	—	1 1.8	—	—	—	—
207	" 23	—	—	11 41.9	—	—	—	Thickening.
208	" 26	22 7	—	22 10	22 55	6.3	0 48	P.T. may be earlier.
209	" 29	—	—	1 55	—	0.5	—	—
210	" 30	16 21	16 26	—	16 42	0.3	0 21	—
211	May 9	7 24	—	—	7 42	—	0 18	Thickening.
212	" 11	17 38	—	18 18	—	—	—	Thickening.
213	" 12	—	—	16 29	—	—	—	Thickening.
214	" 18	14 12	—	—	16 24	—	—	Thickening.
215	" 31	19 7.8	19 8.4	—	19 25	19 45	1.0	0 37
216	June 1	4 51.5	4 54.5	4 58.2	5 20	0.6	0 28	—
217	" 2	6 2	6 27.5	6 32	6 52	0.2	0 50	Faint at 3.58.
218	" 3	5 20	5 29	5 30	5 50	0.4	0 30	—
219	" 14	12 13.2	—	—	14 0	—	1 46	Thickening.
220	" 18	0 1	—	—	0 20	—	0 19	Thickening.
221	" 23	—	—	—	—	—	—	Thickening.
222	" 23	—	—	—	—	—	—	—
223	" 23	—	—	—	16 6.5	—	—	Thickening.
224	" 30	—	—	—	19 0	—	—	Doubtful; masked by tremors.

Tremors are still frequent, summer and winter.
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	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
1905								
347	Jan. 1	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	Very small movements.
348	" 2	2 50.0	6 32.0	8 22.5	9 13.0	1.0	8 53.0	—
349	" 2	21 40.6	—	—	—	—	12 24.0	Very small movements.
350	" 4	1 8.6	—	—	—	—	9 16.0	Very small movements.
351	" 7	4 9.5	—	—	—	—	6 15.0	Tremors.
352	" 8	5 24.5	—	—	—	—	3 0.0	Tremors.
353	" 9	—	6 39.5	6 41.5	6 43.0	0.6	0 3.5	—
354	" 9	14 35.5	15 7.5	15 9.5	15 12.5	2.0	1 10.0	—
355	" 10	4 34.5	—	—	—	—	3 21.0	Tremors.
356	" 11	0 45.5	—	—	—	—	8 46.0	Tremors.
357	" 12	8 24.5	—	—	—	—	1 40.0	Very small movements.

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

No.	Date	P.T. Commence		Max.	End	Max. Amplitude		Duration	Remarks
		H. M.	H. M.			MM.	H. M.		
358	Jan. 13	13 54.4	14 35.4	14 39.4	14 52.9	2.0	1 33.0	—	—
359	" 13	19 13.4	19 26.4	19 29.4	19 35.4	0.7	0 32.5	—	—
360	" 17	17 9.3	—	—	—	—	16 30.0	Tremors.	—
361	" 19	4 9.2	—	—	—	—	3 51.0	Tremors.	—
362	" 20	22 42.5	—	—	—	—	—	—	—
		12 42.3	2 46.8	2 48.3	2 48.3	0.5	11 22.0	—	—
		8 30.3	8 43.3	8 59.3	—	0.6	—	—	—
363	" 20	18 19.7	18 35.2	18 38.2	18 40.7	1.3	0 46.5	—	—
364	" 22	1 51.2	3 30.2	3 56.2	4 23.2	5.0	3 38.0	—	—
365	" 28	7 33.0	—	—	—	—	1 13.0	Very small movements.	—
366	" 28	23 43.0	—	—	—	—	7 3.0	Very small movements.	—
367	" 29	11 56.0	12 46.5	12 51.0	12 52.0	0.5	1 32.0	—	—
368	" 30	5 51.0	—	—	—	—	3 42.0	Very small movements.	—
369	" 31	4 19.0	—	—	—	—	3 20.0	Air tremors.	—
370	Feb. 4	7 6.8	—	—	—	—	2 41.0	Very small movements.	—
371	" 6	5 33.8	—	—	—	—	3 35.0	Very small movements.	—
372	" 11	1 11.7	—	—	—	—	8 32.0	Very small movements.	—
373	" 12	0 52.7	—	—	—	—	8 58.0	Tremors.	—
374	" 13	0 42.7	6 45.7	6 49.7	7 10.7	2.0	8 45.0	—	—
375	" 14	9 9.6	9 26.6	9 43.1	10 7.6	7.2	2 28.0	—	—
376	" 15	2 18.6	—	—	—	0.5	7 5.0	Small movements.	—
377	" 16	2 4.6	—	—	—	—	8 4.0	Tremors.	—
378	" 17	1 46.6	—	—	—	—	8 6.0	Very small movements.	—
379	" 17	11 51.6	12 29.6	12 32.1	12 34.6	2.25	2 53.0	—	—
380	" 18	1 3.6	—	—	—	0.5	9 5.0	Small movements.	—
381	" 18	15 35.5	—	—	—	—	0 11.0	Very small movements.	—
382	" 19	3 58.5	5 58.5	6 8.5 6 20.5 6 25.5	6 37.5	1.8 1.2 1.7	4 28.0	—	—
383	" 12	3 10.5	—	—	—	0.7	7 17.0	Small movements.	—
384	" 22	1 13.5	—	—	—	—	9 10.0	Air tremors.	—
385	" 23	1 58.5	—	—	—	0.5	8 23.0	Small movements.	—
386	" 26	3 50.4	—	—	—	—	0 31.0	Very small movements.	—
387	" 27	17 50.4	18 45.4	19 7.9	19 16.4	1.8	1 35.0	—	—
388	March 2	0 23.3	—	—	—	—	10 9.0	Tremors.	—
389	" 3	0 23.3	—	—	—	—	10 9.0	Tremors.	—
390	" 4	0 23.3	—	—	—	—	10 9.0	Tremors.	—
391	" 4	16 46.3	17 15.3	17 19.3 17 26.3	17 34.3	1.0 0.7	1 11.0	—	—
392	" 4	19 42.3	—	—	—	0.5	0 51.0	Small movements.	—
393	" 4	23 49.3	24 28.3	24 32.8 24 38.3	24 54.3	2.25 1.50	1 36.0	—	—
394	" 5	5 3.3	—	—	—	—	3 20.0	Tremors.	—
395	" 7	4 23.3	—	—	—	—	5 50.0	Tremors.	—
396	" 8	3 23.3	—	—	—	—	6 0.0	Tremors.	—
397	" 11	1 23.3	—	—	—	—	8 0.0	Tremors.	—
398	" 17	22 17.2	22 17.2	22 23.7	22 27.2	0.7	0 13.0	—	—
399	" 18	2 40.2	—	—	—	—	2 21.0	Very small movements.	—
400	" 19	0 28.2	1 21.2	1 25.7 1 42.1 1 45.5	2 3.2	3.0 3.0 3.0	8 40.0	—	—
401	" 20	22 23.1	—	—	—	0.5	11 45.0	Small movements.	—
402	" 22	1 23.1	4 27.1 5 59.1	4 43.1 6 4.6	5 4.1 6 13.1	2.5 1.0	8 0.0	—	—
403	" 29	1 38.0	—	—	—	—	6 45.0	Very small movements.	—
404	April 2	3 6.0	—	—	—	—	4 17.0	Tremors.	—
405	" 4	1 2.5	—	—	—	—	3 45.5	India earthquake.	—
406	" 12	3 23.0	1 11.0	1 34.0	3 50.0	8.75	4 49.0	Tremors.	—
407	" 15	1 13.0	—	—	—	—	7 40.0	Very small movements.	—
408	" 17	0 55.0	—	—	—	—	7 28.0	Tremors.	—
409	" 19	1 41.0	—	—	—	—	8 21.0	Very small movements.	—

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

No.	Date	P.T. Commence		Max.	End	Max. Amplitude		Duration	Remarks
		H. M.	H. M.			MM.	H. M.		
410	April 19	13 11.5	13 51.0	14 14.0 14 17.5	14 19.5	1.5 1.5	1 27.0	—	—
411	" 19	23 9.0	—	—	—	—	11 14.0	Very small movements.	—
412	" 20	23 56.0	—	—	—	—	9 37.0	Very small movements.	—
413	" 23	3 23.0	—	—	—	—	6 15.5	Tremors.	—
414	" 21	9 7.5	9 7.5	9 8.5	9 10.0	0.4	0 2.5	—	—
415	" 25	9 45.0	—	—	—	—	0 27.0	Very small movements.	—
416	" 26	22 5.0	22 26.0	22 31.0	22 33.0	1.25	1 1.0	—	—
417	" 28	20 4.5	—	—	—	—	0 2.5	Very small movements.	—
418	" 29	—	1 53.5	1 55.0	1 57.5	0.75	0 12.5	—	—
419	" 29	5 14.0	—	—	—	—	2 54.0	Tremors.	—
420	" 30	1 18.0	—	—	—	—	6 15.0	Tremors.	—
421	May 1	1 52.0	—	—	—	—	4 47.0	Tremors.	—
422	" 5	2 11.0	—	—	—	—	5 22.0	Tremors.	—
423	" 6	1 11.0	—	—	—	—	7 9.0	Tremors.	—
424	" 7	0 23.0	—	—	—	—	8 21.0	Tremors.	—
425	" 8	2 28.1	—	—	—	—	5 47.0	Tremors.	—
426	" 9	2 3.1	7 25.6	7 28.6	7 32.1	0.5	6 2.0	—	—
427	" 11	3 11.1	—	—	—	—	3 22.0	Tremors.	—
428	" 11	17 38.1	18 24.1	18 25.1	18 25.6	0.4	1 15.0	—	—
429	" 14	2 11.1	—	—	—	—	5 34.0	Tremors.	—
430	" 15	3 39.1	—	—	—	—	2 59.0	Tremors.	—
431	" 18	4 13.2	—	—	—	—	6 10.0	Tremors.	—
432	" 18	13 55.2	15 2.2	15 10.7	15 48.2	2.1	2 22.5	—	—
433	" 19	2 41.2	—	—	—	—	5 42.0	Tremors.	—
434	" 23	4 23.2	—	—	—	—	3 20.0	Small movements.	—
435	June 2	5 45.3	6 32.8	6 35.3	6 52.8	1.75	1 20.5	—	—
436	" 9	13 32.5	13 42.5	13 45.0	13 45.5	0.50	9 31.5	—	—
437	" 14	12 5.5	12 57.5	13 16.0	13 17.5	1.40	1 33.0	—	—
438	" 30	0 40.7	—	—	—	—	6 43.0	Tremors.	—
439	" 30	18 37.7	18 53.2	18 58.7	19 9.7	1.75	0 40.0	—	—
440	" 30	20 48.7	20 53.7	20 55.2	20 55.7	0.50	0 10.0	Tremors till 24h.	—

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

No.	Date	Commence-ment	Max.	Semi-Ampli-tude	Duration	Remarks
110	Jan. 19	18 0.0	—	—	6 2.0	I. of the Mercalli's scale
	" 20	0 7.0	—	—	23 40.0	Thickening of line.
	" 21	7 4.0	—	—	17 5.0	Idem—Idem.
	" 22	3 0.5	3 22.0	0.5	0 49.0	Idem—Idem.
111	" 29	12 48.0	12 49.0	1.5	0 14.0	Idem.
113	Feb. 7	3 9.2	3 10.7	0.4	0 2.0	Idem.
114	" 14	9 5.0	9 15.2	0.5	1 23.0	Idem.
	" 17	12 1.5	—	—	1 16.5	Idem—Thickening of line
116	" 26	23 21.7	23 22.0	0.6	0 5.8	Idem.
	" 27	17 45.5	18 3.0	0.4	0 32.0	Idem.
	Mar. 4-5	23 12.0	—	—	1 1.0	Idem—Thickening of line
118	" 17	22 15.0	22 18.0	2.2	0 18.0	Idem.
	" 18	13 37.0	13 38.5	0.5	0 3.0	Idem.
	" 19	0 20.5	0 34.0	0.8	1 1.0	Idem.

Register from Ponta Delgada, St. Miguel, Azores—continued

No.	Date	Commence-ment	Max.	Semi-Ampli-tude	Dura-tion	Remarks.
121	Apr. 4	H. M. 1 1:0	H. M. 1 54:5	MM. 2:3	2 32:5	Idem.
124	" 26	22 5:0	22 7:2	0:8	0 35:5	Idem.
125	May 8	8 28:0	8 28:5	0:4	0 10:0	Idem.
126	" 9	17 1:5	17 4:0	0:5	0 8:5	Idem.
	" 10	2 13:0	—	—	0 44:5	Idem—Thickening of line
127	" 18	14 5:0	14 10:5	0:9	0 52:5	Idem.
	" 21	23 41:0	23 43:0	0:4	0 10:0	Idem.
130	June 6	18 31:5	18 32:0	0:3	0 4:0	Idem.
131	" 14	11 50:0	—	—	0 49:0	Idem—Thickening of line
132	" 21	23 41:0	23 43:0	0:4	0 10:0	Idem.
	" 23	12 19:0	12 20:0	0:8	0 27:0	Idem.
	" 23	13 29:0	13 31:0	1:6	0 31:5	Idem.
133	" 26-27	23 47:5	23 49:0	1:7	1 16:0	Idem.

Mean scale value 1mm. = 0".47.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Semi-Max. Ampli-tude	Duration	Remarks.
1905								
314	Jan. 1	H. M. —	H. M. —	H. M. —	H. M. 18 44:0	MM. —	H. M. —	Change of Level
315	" 28	—	—	—	17 7:5	17 11:0	0:9	Sudden disturbance
	Feb. 18	11 40:0	—	—	—	—	—	Boom displaced
316	Mar. 16	—	—	—	10 22:0	—	—	Slight change of level
317	" 19	0 19:0	—	0 32:0	1 30:0	0:4	1 11:0	Series of slight vibrations
318	" 25	3 40:0	—	—	3 42:0	0:4	0 2:0	Sudden disturbance
319	Apr. 4	1 2:0	1 12:0	1 46:0	3 12:0	3:0	2 10:0	Indian earthquake
320	" 6	10 17:0	—	—	—	—	—	Boom displaced
321	" 25	10 55:0	—	10 56:0	11 7:0	0:4	0 12:0	—
321	" 26	22 2:0	—	—	22 27:0	—	0 25:0	Thickening of true
322	May 10	0 41:0	—	—	2 23:0	—	1 42:0	Air tremors
323	" 12	3 40:0	—	—	4 0:0	—	0 20:0	Slight thickening
324	" 18	—	14 5:0	14 15:0	15 26:0	0:5	1 21:0	—
325	" 21	1 3:0	—	—	4 0:0	—	2 57:0	Tremors
326	" 23	6 34:0	—	—	7 5:0	—	0 31:0	Slight vibrations
327	" 28	10 45:0	—	—	11 40:0	—	0 55:0	Tremors
328	June 3	—	—	—	2 51:0	—	—	Change of level
329	" 14	12 4:0	—	—	12 40:0	—	0 36:0	Slight vibrations
330	" 30	17 49:0	—	—	19 16:0	—	1 27:0	Series of slight vibrations

Feb. 25. Imm. of boom motion = 0".20. Boom period = 25 seconds.
 Mar. 18. " " " = 0".15. " " = 25 "
 April 8. " " " = 0".18. " " = 25 "
 May 20. " " " = 0".17. " " = 25 "
 June 24. " " " = 0".17. " " = 25 "

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Ampli-tude.	Duration	Remarks
1905								
319	Jan. 8	H. M. 19 57:7	H. M. 19 58:8	H. M. 20 4:0	H. M. 20 13:0	MM. 0:50	H. M. 0 15:3	Sensibility 1 mm. = 0".38 of tilt.
320	" 9	0 57:7	1 1:8	1 27:2	3 26:2	1:50	2 28:5	Doubtful.
321	" 10	6 6:4	—	6 6:9	6 10:4	2:00	0 4:0	Doubtful.
322	" 13	13 41:1	13 51:8	14 3:5	14 49:3	1:25	1 8:2	—
323	" 20	22 43:1	22 53:1	22 56:1	23 7:3	0:75	0 23:0	—
324	" 22	2 51:4	2 52:9	3 12:7	4 28:0	(a) 14:00	1 36:6	(a) Measured from the base line.
325	Feb. 2	21 12:1	21 17:2	21 19:3	21 38:6	2:75	0 26:5	—
326	" 4	6 34:2	6 39:2	6 41:3	6 53:5	2:00	0 19:3	—
327	" 14	8 58:6	9 7:7	9 34:2	11 32:1	(b) 15:00	2 35:5	(b) Measured from the base line.
328	" 17	11 43:5	11 45:6	11 48:6	12 50:6	17:00	1 7:1	(c) Measured from the base line.
329	" 17	13 42:5	—	13 43:0	14 33:3	0:50	0 50:8	Doubtful.
330	" 18	15 25:5	—	—	15 34:7	—	0 9:2	Thickening of line.
331	" 27	17 49:1	18 21:4	18 35:6	18 53:0	0:75	1 5:0	—
332	Mar. 4	16 21:0	16 37:2	16 38:2	17 13:8	1:00	0 51:9	—
333	" 4	18 51:5	19 3:7	19 9:8	19 34:2	0:50	0 42:7	—
334	" 4	23 38:3	23 45:9	23 56:6	24 46:5	2:25	1 8:2	—
335	" 14	10 58:0	—	10 58:5	11 3:6	0:50	0 7:6	—
336	" 16	14 8:0	—	—	14 11:8	—	0 3:5	Thickening of line.
337	" 19	0 19:8	0 21:5	1 0:7	2 39:3	2:75	2 28:5	—
338	" 22	3 50:6	4 10:6	4 25:2	5 53:1	5:25	2 2:5	—
339	" 22	6 4:8	—	6 14:0	6 49:6	0:50	0 41:8	—
340	Apr. 4	0 52:0	0 56:1	?	4 30:7	?	3 38:7	—
341	" 12	17 16:6	17 21:2	17 21:7	17 27:8	1:00	0 11:2	—
342	" 19	12 55:2	13 28:7	13 32:8	14 0:3	0:75	1 5:1	—
343	" 22	5 44:3	6 17:8	6 22:0	7 19:0	1:00	1 35:6	—
344	" 22	10 44:3	10 53:4	11 9:7	12 45:3	0:75	1 1:0	—
345	" 26	22 15:3	22 27:5	22 30:5	22 49:9	1:00	0 34:6	—
346	May 3	12 13:3	—	12 18:3	12 35:6	0:50	0 22:3	Doubtful.
347	" 5	—	—	—	—	—	—	One displacement after 5:37, lasted for a few minutes; beginning and end could not be ascertained.
348	" 11	17 25:5	17 37:1	17 38:2	17 56:0	1:50	0 30:5	—
349	" 23	7 20:3	—	7 22:3	7 46:8	1:50	0 26:5	—
350	" 18	18 35:0	18 42:6	18 43:1	19 8:5	2:50	0 32:5	—
351	June 2	5 48:1	6 2:3	6 6:4	6 31:8	3:00	0 43:7	—
352	" 7	6 7:4	—	6 11:0	6 17:1	0:50	0 9:7	—
353	" 9	12 40:1	—	—	13 24:1	—	0 43:7	Thickening of line.
354	" 12	5 41:4	—	—	5 50:5	—	0 9:1	Thickening of line.
355	" 14	11 54:5	12 34:1	12 41:3	14 2:6	1:00	2 8:1	—
356	" 19	1 24:1	1 41:3	1 42:3	1 50:4	0:75	0 16:3	—
357	" 30	17 26:3	18 0:0	18 13:2	19 43:7	1:50	2 23:4	Sensibility 1 mm. = 0".38 of tilt.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Duration	Remarks
1905								
36	Jan. 22	H. M. 2 52.9	H. M. —	H. M. 3 21.2	H. M. 4 18.7	MM. 5.0	H. M. 1 25.8	—
54	Feb. 2	21 19.1	—	21 24.6	21 32.5	0.6	0 18.4	—
55	" 4	6 35.3	—	6 46.3	6 52.8	0.4	0 17.5	—
65	" 14	9 7.3	—	9 49.7	11 35.0	3.6	2 28.7	—
68	" 17	11 89.6	—	11 59.2	13 10.0	3.4	1 30.4	—
72	" 19	5 4.3	—	5 48.7	6 18.8	1.4	1 14.5	—
79	" 27	17 54.7	—	18 41.8	19 22.6	0.7	1 27.9	—
87	Mar. 4-5	23 39.8	—	0 18.1	0 57.9	0.9	1 18.1	—
97	" 19	0 13.1	—	1 5.1	2 40.2	3.1	2 27.1	—
101	" 22	3 51.9	4 21.9	4 31.6	6 37.1	3.9	2 45.2	—
110	April 4	0 52.9	0 36.3	—	5 12.5	—	4 19.6	As the traces overlapped max amplitude cannot be found.
111	" 7	4 23.0	—	4 38.0	4 48.2	0.6	0 23.2	—
132	May 23	7 12.7	—	7 18.8	7 31.4	0.6	0 38.7	—
139	" 31	18 38.0	—	18 53.3	20 10.5	0.6	1 32.5	—
143	June 2	5 36.9	—	6 20.1	6 29.8	0.6	0 32.9	—
154	" 14	12 29.4	—	12 43.3	13 20.7	0.9	0 31.3	—

Between 1st January and 18th May 1.0 mm. of amplitude = 0°41, and between 19th May and 30th June 1.0 mm. of amplitude = 0°43.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Duration	Remarks
1905								
1	Jan. 22	H. M. 2 51.9	H. M. 2 57.5	H. M. 3 1.7	H. M. 4 21	MM. 1.5 = 0.7	H. M. 1 28	—
2	Feb. 2	21 13.4	21 14.9	21 16.9	21 31	0.3 0.2	0 18	—
3	" 4	6 32.3	6 36.3	6 37.6	6 39	0.3 0.2	0 07	Widening of line.
4	" 13	5 47.3	—	—	—	—	0 02	—
5	" 14	9 10.5	9 32.8	9 40.5	—	2.0 1.0	—	—
				0 48.3	—	2.5 1.3	—	—
				0 52.4	10 39	2.0 1.0	1 20	—
6	" 17	11 46.2	11 51.1	11 52.4	—	1.0 0.5	—	—
				0 59.6	—	1.5 0.7	—	—
				12 01.8	—	1.5 0.7	—	—
				0 55.8	13 10	1.1 0.6	—	—
7	" 19	4 58.6	—	—	—	—	1 24	Many small maxima
8	" 27	17 47.3	—	17 52.4	18 44	—	0 57	Small but well marked.
9	Mar. 4-5	23 28.9	23 38.0	23 47.2	—	0.4 0.2	—	—
				0 14.9	0 34	0.5 0.3	1 05	—
10	" 19	0 10.8	0 22.1	0 24.1	—	1.0 0.5	—	—
				0 52.8	—	1.0 0.5	—	—
				1 23.6	2 28	1.0 0.5	2 17	—
11	" 22	4 02.7	4 32.6	4 33.5	—	0.6 0.3	—	—
				0 38.7	5 32	0.8 0.4	1 29	—
12	April 2	3 28.4	—	—	—	0.6 0.3	0 03	Felt in Madras and North of it.
13	" 4	0 55.6	1 00.8	lost	4 32	>22 > 12	3 36	Boom driven off scale and caught.
14	" 4	12 43.6	—	—	—	—	0 04	—
15	" 7	4 29.7	4 32.8	4 33.3	4 55	2.0 0.9	0 25	—
16	" 19	10 03.8	—	—	10 07	0.6 0.3	0 03	—

Register from the Solar Physics Observatory, Kodaikānal, Madras—continued.

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Duration	Remarks
17	April 19	H. M. 12 56.6	H. M. —	H. M. 13 55	H. M. 13 55	MM. 0.5	H. M. 0 58	Widening of line.
18	" 23	2 36.0	2 37.1	—	2 42	—	0 46	—
19	May 11	17 22.2	—	—	18 19	—	0 48	Widening of line.
20	" 18	13 48.3	—	—	13 52	0.6 0.3	0 01	Widening of line.
21	" 23	7 10.3	7 25.2	7 26.2	—	0.3 0.2	—	—
				0 35.4	8 16	0.4 0.2	1 06	—
22	" 31	18 41.6	18 49.3	18 53.4	19 13	0.9 0.5	0 31	—
23	June 2	5 52.4	lost	lost	6 31	lost	0 38	Sheet changed Ch. 02m. to Ch. 14m.
24	" 12	5 41.1	—	—	6 36	—	0 55	Slight.
25	" 14	11 54.3	11 57.4	11 58.5	13 19	0.5 0.2	1 25	—
26	" 19	1 42.0	—	—	1 49	—	0 07	Widening of line.
27	" 30	17 31.3	18 03.3	18 08.7	—	1.5 0.7	—	—
				0 19.0	19 48	1.1 0.5	2 17	—

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

No.	Date	Commence-	Duration of P.T.'s	Max.	Amplitude Double	Total Duration	Remarks
1905.							
651	Jan. 8	H. M. 23 40.6	M. —	H. M. 23 40.6	MM. 1.6 = 0.5	M. 12	—
652	" 8	19 33.8	—	19 39.1	2.0 0.7	30	—
653	" 13	13 28.4	—	13 55.3	1.8 0.5	60	—
654	" 14	20 7.5	—	20 7.9	1.2 0.4	3	—
655	" 21	22 28.5	—	22 38.7	2.6 0.8	40	—
656	" 26	14 22.2	—	14 24.1	1.0 0.3	4	—
657	" 27	12 58.7	—	13 9.2	0.7 0.2	25	—
658	Feb. 2	21 9.9	—	21 12.4	0.2 0.0	30	—
659	" 4	6 17.2	—	6 34.5	3.6 1.1	50	—
660	" 5	16 35.1	—	16 36.6	22.0 7.0	14	—
661	" 7	3 6.8	—	3 9.1	2.0 0.6	10	—
662	" 13	5 33.1	—	5 58.6	1.6 0.5	90	—
663	" 13-14	23 47.1	—	0 0.7	1.0 0.3	40	—
664	" 14	9 1.5	—	9 48.6	5.4 1.7	160	—
665	" 15	2 47.6	—	2 51.2	1.0 0.3	10	—
666	" 17	11 49.3	4.2	12 0.8	14.0 4.3	85	—
				12 3.3	18.0 5.6	—	—
667	" 19	4 44.7	11.9	5 16.2	3.2 1.0	120	—
668	" 20	14 27.2	—	14 33.4	0.6 0.2	20	—
669	" 26	2 36.2	—	3 5.7	1.3 0.4	60	—
670	" 27	17 35.8	9.0	18 12.6	6.0 1.9	90	—
671	March 4	15 7.2	—	15 19.4	0.7 0.2	20	—
672	" 4	16 7.3	—	16 36.0	2.0 0.6	100	—
673	" 4	18 40.6	—	18 53.5	1.1 0.3	70	—
674	" 4	23 24.7	—	23 41.1	3.0 1.0	140	—
675	" 8	0 24.1	—	0 25.2	1.0 0.3	3	—
676	" 19	0 6.7	—	0 38.7	19.0 8.2	170	—
677	" 22	3 51.1	10.1	4 33.2	2.1 0.7	200	—
678	" 24	8 57.2	—	9 2.7	1.0 0.3	10	—
679	April 4	0 58.6	—	1 1.9	7.0 2.2	180	Seismogram not fit for copy.
680	" 7	4 32.2	—	4 46.7	2.0 0.6	30	—
681	" 20	12 47.7	—	13 29.7	2.0 0.6	75	—
682	May 11	17 15.2	6.0	17 25.2	1.0 0.3	47	—
683	" 18	13 48.7	5.9	14 17.2	5.9 1.6	89	—
684	" 23	7 2.2	7.5	7 17.2	1.2 0.4	35	—
685	" 25	4 8.7	—	4 22.2	0.7 0.2	29	—
686	" 26	18 40.2	—	18 42.7	3.0 0.9	25	—
687	" 31	18 29.2	5.0	18 38.7	2.5 0.8	42	—
688	June 2	5 53.8	—	6 11.3	1.7 0.5	34	—
689	" 9	12 37.7	—	12 54.7	1.5 0.5	41	—
690	" 10	3 9.7	4.5	3 16.7	0.7 0.2	20	—
691	" 12	5 32.7	—	5 43.7	1.0 0.3	68	—
692	" 14	11 39.7	—	12 24.7	2.7 0.8	79	—
693	" 16	12 29.2	—	?	?	?	—
694	" 30	17 16.9	—	17 33.9	7.0 2.2	169	—

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

No.	Date.	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude.	Duration.	Remarks
1905.								
234	Jan. 19	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	Preliminary tremors in operable in trace. Seems to have begun during change of spool. Time of commencement approx. to 10 min. After the time marked as end there were still some very slight thickenings for about 1hr. afterwards.
235	" 20	—	13 29	13 29	13 32	0.5	0 3	
236	" 22	—	2 45	2 47	2 51	0.4	0 6	
237	Feb. 2	—	3 8	3 46	4 43	1.2	1 35	
238	" 7	—	8 40	9 23	10 30	0.9	1 50	Slightly tremulous, nearly continuous for 2h. 40m. max. as given.
239	" 7-8	—	18 50	20 46	21 38	0.6	2 48	
		—	23 17	6 16	8 30	0.7	9 13	
		—	—	7 31	—	0.9	—	
		—	—	8 0	—	1.0	—	Trace tremulous for 9h. 15m. with numerous maxima, of which the three principal are given.
240	" 14	—	unknown	10 19	—	2.2	unknown	
		—	—	—	—	—	—	
		—	—	—	—	—	—	
241	" 17	12 6	12 19	12 25	12 42	1.1	0 36	Doubtful. Record just after changing spool shows vibrations different to those usually caused by the changing. Trace tremulous or thickened for over an hour afterwards, with max. as given.
242	" 19	—	6 18	—	6 31	0.4	0 13	
243	Mar. 4-5	23 50	—	0 4	0 7	—	0 17	
244	April 25	—	—	10 30	—	—	—	
245	May 12	—	—	4 1	—	—	—	Distinct tremors. Max. indeterminate.
246	" 12	—	—	16 46	—	—	—	
247	" 18	14 16	—	—	16 8	—	1 52	
248	" 20	—	—	11 20	—	—	—	
249	" 21	—	—	11 32	—	—	—	Minute tremors. Well defined tremor.
250	" 23	7 14	—	7 43	8 3	—	0 49	
251	" 31	—	—	19 26	—	—	—	
252	June 2	4 52	—	5 2	5 9	1.0	0 17	
253	" 14	—	—	12 3	—	—	—	Slightly tremulous Well defined small earthquake.
	" 14	13 1	13 7	13 20	—	—	0 43	
	" 19	—	—	13 30	—	1.1	—	
254	" 19	—	—	1 43	—	—	—	
255	" 30	17 43	—	—	—	—	1 42	Slightly tremulous Tremors ending 2h. 25m.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude.	Duration.	Remarks
1905.								
1	Jan. 4	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	A.C.
2	" 5	—	—	—	—	—	—	
3	" 8	—	—	—	—	—	—	
4	" 10	—	—	—	—	—	—	
5	" 11	—	—	—	—	—	—	
6	" 12	—	—	—	—	—	—	
7	" 14	—	—	—	—	—	—	
8	" 15	—	—	—	—	—	—	
9	" 19	—	—	—	—	—	—	
10	" 19	—	—	—	—	—	—	
11	" 20	18 10.4	—	—	18 26	0.5	—	Slow waves for 10m.; periods 86s.; possibly artificial. E.Q. Several swellings.
12	" 21	5 0	—	—	9 0	0.2	—	A.C.
13	" 22	3 0	—	—	23 0	0.2	—	
14	" 23	1 0	—	—	7 0	0.1	—	
15	" 25	4 10	—	—	8 0	0.1	—	
16	" 25	13 57	—	—	14 4	0.1	—	A.C.
17	" 25	21 16	—	—	21 20	0.2	—	
18	" 26	2 0	—	—	8 0	0.4	—	
19	" 29	12 0	—	—	23 0	0.3	—	
20	" 31	3 2	—	—	5 0	0.1	—	A.C.
21	Feb. 2	4 0	—	—	7 30	0.1	—	
22	" 3	15 3	—	—	15 6	0.1	—	
23	" 4	3 2	—	—	7 0	0.1	—	
24	" 5	12 0	—	—	23 0	0.3	—	A.C.
		—	—	—	—	—	—	
		—	—	—	—	—	—	
		—	—	—	—	—	—	
25	" 14	7 58.5	8 23*	—	10 15	2.0	—	No record Feb. 5d. 20-3h. to 13-21h. *Beginning of more rapid vibrations. Several approx. equal maxima.
26	" 15	3 0	—	—	7 0	0.1	—	A.C.
27	" 17	4 30	—	—	7 0	0.1	—	
28	" 17	11 35	—	—	12 28.5	0.5	—	
29	" 19	4 0	—	—	20 0	0.3	—	
30	Mar. 2	4 5	—	—	8 30	0.3	—	A series of swellings.
31	" 3	4 1	—	—	8 0	0.1	—	
32	" 5	0 0	—	—	1 30	0.2	—	
33	" 5	3 8	—	—	18 0	0.3	—	
34	" 6	1 43.7	—	1 53.2	2 09.7	0.3	—	A series of swellings. E.Q. A close series of beads for 1 hour.
35	" 16	7 5	—	—	9 5	0.2	—	
36	" 19	0 24.8	—	—	3 0	0.7	—	
37	" 22	3 54	4 17	4 26	6 30	3.0	—	
38	Apr. 4	1 15	1 52	2 19	4 50	3.0	—	E.Q. Indian Earthquake.
		—	—	—	—	—	—	No record April 5d. 22h. to 10d. 23-6h. No record May 17d. 15h. to 21-5h. No record May 26d. 22-2h. to 27d. 2-2h. No record May 27d. 14-2h. to 20-7h.
		—	—	—	—	—	—	
		—	—	—	—	—	—	

Period of pendulum 16 seconds. A.C. = Air Currents.

Register from the Observatory (Syrian Protestant College), Beirut, Syria.
Observers, G. MAIER, M.S., and ALFRED H. JOY, M.A.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1905.								
67	Dec. 31 '04	H. M. 10 13	H. M. —	H. M. 10 14.5	H. M. —	MM. —	H. M. —	Thickening.
68	Jan. 9	6 22.5	—	6 24.5	6 45	3.3	0 22.5	—
69	" 11	17 38	—	17 39.5	17 42.5	0.5	0 4.5	—
70	" 13	13 54	—	—	13 55.5	—	0 1.5	Thickening.
71	" 18	19 27	—	—	19 30	—	0 7.0	Thickening.
72	" 14-15	23 37.5	—	—	9 4.5	—	0 6.5	Thickening.
73	" 20	2 36.5	—	2 37.5	2 43	1.25	0 3.0	Thickening.
74	" 20	22 49	—	—	22 52	—	0 4.0	Thickening.
75	" 20	23 21	—	—	23 25	—	0 1.5	Thickening.
76	" 22	2 57	3 26.5	3 41	5 14.5	1.75	2 17.5	Thickening.
77	" 29	1 36	—	—	1 41	—	0 5.0	Thickening.
78	Feb. 2	21 36.5	—	21 39.5	21 46	0.2	0 9.0	—
79	" 4	6 59	—	7 3	7 11.5	0.5	0 12.5	—
80	" 12	6 46.5	—	—	6 48	—	0 1.5	Thickening.
81	" 13	6 26.5	—	7 26.5	7 32.5	0.2	1 6.0	—
82	" 14	0 36	—	—	1 4	—	0 28.0	Thickening.
83	" 14	9 8.5	9 41.5	9 48.5	12 16.5	8.2	3 8.0	Thickening.
84	" 17	4 20	—	—	5 35.5	—	1 15.5	Thickening.
85	" 17	11 58	—	12 18.5	13 18	1.0	1 20.0	—
86	" 18	15 43	—	15 45	15 51	0.2	0 3.0	—
87	" 19	4 57.5	—	6 39.5	7 3	0.3	2 10.5	—
88	" 24	2 23	—	4 33	6 33.5	0.3	4 10.5	Air currents. (?)
89	" 27	17 55	—	18 59	19 39	0.5	1 44.0	—
90	March 4	16 30	—	17 25.5	17 56.5	0.2	1 26.5	—
91	" 4-5	23 38	—	0 33.5	2 0.5	0.6	2 22.5	—
92	" 14	10 57	—	—	11 12.5	—	0 15.5	Thickening.
93	" 17	22 45	—	22 48	22 58	0.2	0 13.0	—
94	" 18-19	23 19	0 18	0 27	1 54.5	1.2	2 35.5	—
95	" 22	3 55	4 30	4 32	6 36	2.2	2 41.0	—
96	April 4	0 58	1 14	1 24.5	4 57	18.5	3 59.0	Thickening.
97	" 4	10 34	—	—	10 36.5	—	0 2.5	Thickening.
98	" 15	4 44.5	—	—	4 46.5	—	0 2.0	Thickening.
99	" 19	13 6	—	14 6.5	14 51	0.5	1 45.0	—
100	" 26	22 5	—	22 8.5	23 16.5	0.4	1 10.5	—
101	May 1	12 50	—	—	12 53.5	—	0 3.5	Thickening.
102	" 1	17 18	—	—	17 21	—	0 3.0	Thickening.
103	" 9	7 50.5	—	—	7 56.5	—	0 6.0	Thickening.
104	" 11	17 35.5	—	17 44.5	18 18	0.3	0 42.5	—
105	" 18	14 6	—	15 57.5	16 30.5	0.4	2 24.3	—
106	" 20	11 9.5	—	11 10.5	11 27	1.5	0 17.5	—
107	" 23	7 6.5	—	7 18.5	8 9	0.5	1 2.5	—
108	" 31	18 54.5	—	19 11.5	19 28.5	0.2	0 34.0	—
109	June 1	4 48	—	4 51.5	5 18.5	1.1	0 30.5	—
110	" 2	6 2	—	6 31.5	6 50	0.5	0 48.0	—
111	" 9	13 0	—	13 20	—	—	0 20.0	Thickening.
112	" 12	5 39.5	—	6 50	7 23	0.25	1 43.5	—
113	" 14	11 33	—	13 18	14 2.5	0.6	2 9.5	—
114	" 19	1 32.5	—	1 38.5	1 55	0.3	0 22.5	—
115	" 30	17 28.5	—	18 38.5	—	1.2	—	—

* End interrupted and lost in changing film after 19h. 13m.

Dec. 31—Jan. 22. Pendulum period 15 sec. Imm. = 0^h 54 sec. of arc.
Jan. 22—Feb. 9. " " 20 " " 0^h 35 " "
Feb. 9—June 30. " " 18 " " 0^h 41 " "

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1905.								
205	July 12	H. M. 1 54.5	H. M. —	H. M. 2 01.7	H. M. —	MM. 0.3	H. M. 0 18.5	—
209	" 22	0 49.3	1 02.6	1 07.2	1 14.1	4.0	1 31.7	—
210	" 22	15 23.5	—	15 35.8	—	0.5	0 48.7	—
211	" 27	Indefinite	15 58.5	16 00.1	16 05.1	2.2	Indefinite	P.T. and A.T. obscured by night tremors.
212	Aug. 8	—	—	—	23 03.4	—	Till 24 43.7	Severe shocks at Wellington.
213	" 14	2 56.1	2 59.7	3 01.3	3 10.0	5.7	0 48.7	Light out at commencement of quake.
214	" 16	22 20.3	—	—	—	—	0 4.3	Very slight and sudden.
215	" 18	Indefinite	5 18.4	5 21.8	5 27.0	3.5	Till 5 52.8	P.T. obscured by night tremors.
216	" 19	2 31.7	—	2 34.8	—	—	0 08.4	Very slight swelling.
217	" 22	1 37.4	—	Max. at start.	—	0.5	0 06.2	Very slight and sudden.
218	" 24	Indefinite	21 32.6	21 40.3	22 05.3	2.05	Indefinite	P.T. and A.T. obscured by night tremors.
219	Sept. 6	2 05.2	—	2 08.5	—	0.55	0 08.3	—
220	" 9	1 23.9	—	1 33.2	—	1.0	0 44.4	—
221	" 9	Indefinite	20 42.1	20 48.8	20 53.4	2.4	Indefinite	P.T. and A.T. obscured by night tremors.
222	" 13	6 35.8	—	6 42.5	—	0.5	0 34.6	—
223	" 13	Indefinite	17 18.2	17 25.4	17 37.9	5.20	Indefinite	P.T. and A.T. obscured by night tremors.
224	" 17	Indefinite	20 11.3	20 11.8	20 13.9	1.2	Indefinite	P.T. and A.T. obscured by night tremors.
225	" 17	Indefinite	—	23 47.0	—	0.4	Indefinite	P.T. and A.T. obscured by night tremors.
226	" 19	4 59.1	5 04.0	5 12.7	5 38.3	5.1	2 20.8	Very slight waves until second maximum is reached.
227	" 20	3 16.3	—	3 18.8	—	0.4	0 32.3	—
228	" 24	Indefinite	15 11.6	15 14.7	15 45.0	17 +	Indefinite	P.T. and A.T. obscured by night tremors.
229	" 27	2 23.4	—	2 26.0	—	0.25	0 15.0	—
230	Oct. 3	3 54.4	—	4 31.0	—	0.65	2 10.5	—
231	" 4	0 06.8	0 09.9	0 10.4	0 10.9	2.05	0 43.1	—
232	" 9	12 58.9	—	13 09.5	—	0.3	0 08.3	—
233	" 9	14 00.3	—	14 05.5	—	1.4	0 25.3	—
234	" 11	9 57.3	—	10 01.2	—	0.8	0 10.9	—
235	" 16	5 41.1	—	5 46.0	—	0.4	0 50.7	(?) Night tremors.
236	" 19	3 14.2	—	3 17.8	—	0.45	0 28.4	—
237	" 28	5 01.9	—	—	—	—	0 11.3	Thickening merely.
238	" 28	Indefinite	14 28.2	14 29.3	14 30.0	1.6	Indefinite	P.T. and A.T. obscured by night tremors.
239	" 31	1 31.1	—	1 33.4	—	0.25	0 10.9	—
240	Nov. 3	3 49.0	—	4 00.9	—	0.8	0 32.6	—
241	" 8	7 01.0	—	7 08.2	—	0.25	0 17.6	—
242	" 21	3 13.7	3 21.0	3 25.6	3 50.4	6.0	1 54.3	—
243	" 22	1 21.2	—	1 38.7	—	0.55	1 38.0	—
244	Dec. 2	1 57.6	3 20.8	3 23.7	3 28.1	2.25	2 27.4	—
245	" 9	—	—	6 30.2	—	1.4	—	Sudden displacement.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Duration.	Remarks
246	Dec. 9	H. M. —	H. M. —	H. M. 21 08.2	H. M. —	MM. 0.55	H. M. —	Sudden displacement.
247	" 19	Indefinite	—	17 55.7	—	14.0	Indefinite	Obscured by night tremors.
248	" 20	5 50.8	6 35.3	6 39.1	6 58.8	3.4	2 39.3	—
249	" 21	2 19.7	—	2 36.6	—	0.55	0 43.0	—
250	" 31	22 17.0	—	22 17.5	—	0.4	0 09.7	—

Register from St. Clair Experimental Station, Botanical Dept., Trinidad, B. W. I.
WILLIAM LESLIE, Superintendent.

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Duration.	Remarks
1905.								
250	Mar. 17	H. M. 22 10	H. M. —	H. M. 22 29	H. M. —	MM. 0 19	H. M. —	Thickening of line
251	" 23	15 10	—	16 20	—	1 5	1 16	—
252	April 11	11 14	—	11 17	—	1.5	0 3	Thickening of line
253	" 11	11 46	—	11 49	—	0 3	0 4	—
254	" 17	17 38	—	17 38	—	1	0 4	Thickening of line
255	" 19	13 7	—	13 9	—	0 2	0 2	—
256	" 19	13 37	13 39	14 3	—	1	0 24	—
257	" 26	21 56	—	22 6	—	2	0 30	—
258	" 30	12 46	—	12 49	—	0 3	0 3	Thickening of line
259	May 3	11 52	—	12 4	—	1	0 19	—
260	" 12	2 58	3 4	3 8	—	1	0 18	—
261	" 12	15 46	15 48	15 51	—	1	0 30	—
262	" 18	14 13	—	14 50	—	0 37	—	Thickening of line
263	" 23	—	—	6 59	—	1	—	—
264	" 23	19 36	—	22 6	—	A series of line	—	thickenings.
265	" 30	12 29	—	12 35	—	0 6	—	Thickening of line
266	" 30	12 53	—	12 55	—	3	0 2	—
267	June 10	7 51	—	7 51	—	3	0 3	Shock felt in vicinity.
268	" 10	14 36	—	14 40	—	1	0 7	—
269	" 21	8 4	—	8 5	—	2	0 1	Shock felt in vicinity.
270	" 24	16 9	—	16 12	—	0 3	—	Thickening of line
271	" 25	12 43	12 44	12 44	—	full swing	0 15	—

Register from Perth Observatory, Western Australia.
Director, W. E. COOKE, M.A., F.R.A.S., &c.

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Remarks
1905.							
1	Jan. 8	H. M. 19 44.4	H. M. 19 49.6	H. M. 19 50.8	H. M. 20 13.4	MM. 0.65	—
2	" 13	13 28.1	13 34.4	13 45.0	14 40.9	1.5	—
3	" 20	22 30.1	22 33.8	22 42.1	23 4.3	1.0	—
4	" 22	2 50.4	2 55.3	2 59.1	4 23.3	3.2	—
				3 3.8		2.9	
				3 6.3		3.0	

Register from Perth Observatory, Western Australia.—continued.

No.	Date	P.T. Commence	L.W. Commence	Max.	End.	Max. Amplitude.	Remarks.
		H. M.	H. M.	H. M.	H. M.	MM.	
5	Feb. 2	21 19.5	21 31.6	21 33.0	21 55.0	0.3	—
6	" 4	6 52.7	6 55.7	7 9.9	7 17.7	0.3	—
7	" 13	5 30.0	5 38.5	5 48.2	6 39.6	2.05	—
8	" 13	23 39.0	23 40.7	23 41.2	0 37.2	2.1	—
9	" 14	9 6.6	9 19.4	9 26.4	10 57.1	1.4	—
10	" 17	11 59.9	12 16.9	12 22.0	12 58.2	0.55	—
11	" 19	4 47.1	4 59.1	5 13.3	6 50.1	2.1	—
12	" 20	14 35.7	14 38.5	14 42.0	14 48.8	1.0	—
13	" 26	2 42.6	2 55.4	2 59.4	3 36.8	4.9	—
14	" 27	17 34.0	17 42.5	18 3.8	19 3.8	1.25	—
15	Mar. 4	16 8.5	16 13.3	16 23.8	17 40.5	2.0	—
16	" 4	18 39.1	18 45.8	19 0.1	20 0.8	4.3	—
17	" 4	23 24.3	23 31.3	23 42.6	1 40.8	3.05	—
18	" 6	10 48.9	10 53.1	10 54.9	10 59.9	7.4	—
19	" 18	12 30.3	12 42.5	12 50.3	13 21.5	0.6	—
20	" 19	none	0 8.8	0 28.4	3 21.8	0.9	—
21	" 19	20 3.1	20 5.3	20 6.8	20 14.6	16.5	—
22	" 22	4 3.4	4 58.8	5 14.6	6 27.6	0.45	—
23	" 24	8 48.4	8 54.9	8 58.8	9 23.2	0.5	—
24	" 27	5 8.2	5 8.9	5 14.2	5 19.9	1.05	—
Owing to instrument being out of repair no records were registered from April 2nd, 0.30, to April 7th, 3.30, during which time the Indian Earthquake occurred.							
25	April 7	—	—	—	5 10.9	—	Watch wound. P.T. and Max. lost.
26	" 10	20 51.3	20 57.1	20 57.4	21 9.3	0.5	—
27	" 19	12 41.7	13 3.1	13 12.0	14 15.7	3.8	—
28	" 25	9 32.8	9 51.3	9 58.5	10 26.8	1.2	—
29	" 25	17 5.1	17 9.8	17 12.1	17 25.2	0.3	—
30	" 28	16 24.0	16 25.8	16 30.6	16 52.2	0.5	—
31	May 11	17 23.7	17 33.0	17 46.1	18 30.5	1.3	—
32	" 17	23 40.0	23 43.0	23 45.8	0 3.2	0.5	—
33	" 18	13 53.7	13 55.6	14 15.7	15 33.4	5.9	—
34	" 23	6 57.6	7 3.2	7 3.9	7 53.9	0.9	—
35	" 24	2 0.0	—	—	7 0.0	—	Small tremors.
36	" 24	13 45.0	—	—	19 0.0	—	Small tremors.
37	" 25	4 0.0	—	—	7 45.0	—	Small tremors.
38	" 26	2 30.0	—	—	24 0.0	—	Small tremors.
39	" 27	0 0.0	—	—	24 0.0	—	Small tremors.
40	" 31	18 38.3	18 46.8	19 0.3	19 36.0	0.4	—
41	June 2	5 56.6	5 58.9	6 0.4	6 20.6	0.4	—
42	" 2	17 54.4	18 9.6	18 10.9	18 48.6	0.5	—
43	" 2	6 30.0	—	—	24 0.0	—	Small tremors.
44	" 3	0 0.0	—	—	24 0.0	—	Small tremors frequent.
45	" 4	0 0.0	—	—	24 0.0	—	Small tremors.
46	" 5	0 0.0	—	—	24 0.0	—	Very small tremors.
47	" 5	22 2.1	22 8.3	22 10.7	22 37.3	1.0	—
48	" 6	2 40.2	2 55.5	2 57.7	3 12.0	0.95	—

Register from Perth Observatory, Western Australia—continued..

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Remarks
49	June 7	H. M. 4 45.0	H. M. —	H. M. —	H. M. 8 40.0	MM. —	Large and frequent tremors.
50	" 8	2 0.0	—	—	3 45.0	—	
51	" 9	12 38.3	12 44.7	12 57.5	13 45.7	2:35	—
52	" 12	5 25.3	5 45.8	5 50.5	6 44.8	2:7	—
53	" 14	11 38.6	12 2.4	{ 12 9.4 12 13.4 }	13 17.9	{ 4.1 4.1 }	—
54	" 30	0 0.0	—	—	24 0.0	—	Small tremors.
55	" 30	17 16.6	17 23.4	17 38.6	19 17.4	13.0	—

1905—Feb. 9 Imm. = 0°.64.
April 25 Imm. = 0°.60.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1905.								
552	Jan. 20	H. M. 18 12.0	H. M. —	H. M. —	H. M. 18 38.0	MM. 0.4	H. M. —	—
553	" 22	3 5.0	—	—	4 38.0	0.2	—	—
554	" 29	12 58.0	—	—	13 1.0	0.1	—	—
555	" 31	9 31.5	—	—	9 38.0	0.1	—	—
556	Feb. 13	6 25.0	—	—	6 47.0	0.1	—	—
557	" 14	9 5.0	—	9 49.0	10 45.0	2.5	—	—
558	" 17	12 35.0	—	—	13 18.0	0.3	—	—
559	" 19	5 14.0	—	—	6 31.0	0.1	—	—
560	" 27	18 0.0	—	19 41.0	20 7.0	0.4	—	—
561	March 4	16 42.9	—	—	17 38.2	0.05	—	—
562	" 4	23 41.0	—	24 30.0	25 20.0	0.3	—	—
563	" 6	1 44.0	—	—	2 7.0	0.15	—	—
564	" 17	22 0.0	—	—	—	—	—	Uncertain.
565	" 17	22 0.0	—	—	—	—	—	Uncertain.
566	" 19	0 22.0	—	1 22.5	2 43.0	1.1	2 21.0	—
567	" 22	3 52.0	4 17.0	4 19.0	5 56.0	2.6	2 4.0	—
568	" 22	11 47.5	—	—	12 6.0	0.1	0 18.5	—
569	April 4	1 14.2	1 50.2	1 54.3	4 40.0	4.0	3 25.8	India.
570	" 12	3 18.0	—	—	3 22.0	0.05	0 4.0	—
571	" 16	17 32.0	—	—	17 39.0	0.1	0 7.0	—
572	" 19	13 0.0	—	—	14 20.0	0.15	1 20.0	—
573	" 25	17 49.5	—	—	17 57.1	0.1	0 7.8	Persia.
574	" 26	3 51.1	—	—	3 55.1	0.1	0 7.0	Persia.
575	" 26	22 2.3	—	—	22 48.0	0.25	0 45.7	Abrupt beginning.
576	" 28	17 9.5	—	—	17 32.7	0.15	0 23.2	—
577	May 9	6 53.2	—	6 58.3	7 47.3	0.90	0 54.1	Southern Mexico.
578	" 11	17 35.5	—	—	18 29.3	0.05	0 44.8	—
579	" 12	3 13.8	—	—	3 19.8	0.05	0 6.0	—
580	" 16	14 19.5	—	—	16 9.2	0.2	1 49.7	Active.
581	June —	13 27.0	—	—	13 34.0	0.15	0 7.0	—
582	" 13	5 48.5	—	—	6 38.5	0.1	1 10.0	—
583	" 14	11 47.5	—	—	13 32.0	0.1	1 44.5	—
584	" 30	17 37.0	—	18 31.2	19 34.0	0.5	1 57.0	—
585	" 30	20 18.4	20 23.0	20 26.5	21 9.0	2.0	0 50.6	Well defined.

Imm. displacement = 0°.67.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1905.								
562	Jan. 10	H. M. 7.0 14.1	H. M. —	H. M. —	H. M. 0 15.0	MM. 0.05	H. M. —	Doubtful.
563	" 10	7.0 52.0	—	—	0 53.0	0.05	—	Doubtful.
564	" 20	18 8.5	—	—	18 48.5	0.05	—	—
565	" 22	3 2.1	—	3 13.2	4 33.0	0.6	—	—
566	" 29	13 03.7	—	—	13 22.0	0.25	—	—
567	" 31	9 12.0	—	9 15.2	9 21.1	0.5	—	—
568	Feb. 3	5 47.5	—	—	10 54.5	0.15	—	—
569	" 14	8 53.4	—	9 17.4	11 9.0	4.0	—	—
570	" 15	5 54.0	—	—	6 0.5	0.1	—	—
571	" 17	12 6.5	—	12 42.5	13 18.5	0.5	—	—
572	" 18	15 9.5	—	—	15 19.0	0.1	—	—
573	" 19	1.5 2.5	—	—	7 14.0	0.15	—	—
574	" 27	17 37.0	—	—	19 0.0	0.1	—	—
575	March 4	16 24.0	—	—	17 32.5	0.1	—	—
576	" 4	19 17.5	—	—	20 03.0	0.1	—	—
577	" 4	23 36.5	—	24 17.5	26 14.0	0.85	—	—
578	" 6	1 49.5	1 53.0	1 53.6	2 34.0	1.0	—	—
579	" 17	22 24.0	—	—	22 25.0	0.05	—	—
580	" 17	22 49.0	—	—	22 54.0	0.1	—	—
581	" 19	0 10.8	—	0 47.0	3 11.0	1.0	3 0.2	—
582	" 22	3 46.9	—	4 3.3	6 50.0	2.5	3 3.1	—
583	" 22	11 31.0	—	—	11 58.7	0.1	0 27.7	—
584	April 4	1 14.0	1 50.3	1 57.1	4 40.3	6.3	3 26.3	Abrupt beginning. India.
585	" 12	3 3.0	—	—	3 9.0	0.1	0 6.0	—
586	" 16	17 30.8	—	—	17 40.3	0.1	0 10.0	—
587	" 19	12 44.8	—	12 56.0	14 19.5	0.15	1 25.9	Quiet intervals.
588	" 23	23 22.6	—	—	23 32.0	0.15	0 9.4	—
589	" 24	7.0 45.3	—	—	0 52.3	0.10	0 6.0	—
590	" 25	13 0.4	—	13 9.4	13 18.4	0.4	0 18.0	—
591	" 26	2.6 4.4	—	—	2.6 8.4	0.1	2.0 4.0	Barely noticeable. Brief thickenings at intervals.
592	" 26	21 55.0	—	—	23 40.0	0.1	1 45.0	—
593	May 9	6 58.6	—	7 2.6	7 42.6	0.55	0 44.0	Mexico.
594	" 11	17 23.1	—	—	18 28.4	0.1	1 5.0	—
595	" 18	13 58.0	—	—	15 35.5	0.2	1 37.5	Active.
596	" 23	7 26.0	—	—	7 38.0	0.1	0 10.0	—
597	June 9	12 54.0	—	—	13 59.0	0.1	1 5.0	—
598	" 12	5 40.0	—	—	5 49.5	0.15	0 9.5	—
599	" 14	11 55.2	—	—	13 51.0	0.15	1 37.8	—
600	" 30	20 15.5	22 0.7	20 26.7	21 11.0	0.6	0 55.5	—

Imm. displacement = 0°.76.

Register from Royal Alfred Observatory, Mauritius.
 Director, T. F. CLAXTON, F.R.A.S. Assistant Director, A. WALTER.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1902.								
278	Jan. 1	H. M. 6 40-0	H. M. 6 40-0	H. M. 6 42-1	H. M. 8 30	MM. 0-60	H. M. ?	Thickening of trace
279	" 6	—	—	1 31-1	—	—	—	—
280	" 9	0 14-1	0 57-8	0 58-9	1 30	0-40	1 25-9	—
281	" 11	19 32-4	19 38-5	19 42-0	19 50-7	0-47	0 18-3	—
282	" 13-14	22 40-4	22 57-0	23 0-8	0 4-5	1-00	1 24-1	—
283	" 18-19	23 54-0	—	0 2-5	1 11	—	1 17-0	Thickening of trace
284	" 21	10 29-0	—	11 7-0	11 17	—	0 48-0	Several slight thickenings of the trace
285	" 22-23	22 0-0	—	—	2 30	—	4 30-0	Several slight thickenings of the trace
286	" 24	4 15-0	—	5 11-0	5 45	—	1 30-0	A.T.'s. Very slight thickenings.
287	" 24	23 41-6	23 53-3	0 26-0	?	2-60	?	Movements decreased till 25h. 1h. 38m. and then recommenced for No. 288.
288	" 25	—	1 54-4	2 2-7	6 0	1-50	—	—
289	" 27	—	—	0 13-2	—	—	—	—
290	" 28	19 53-0	—	20 9-0	20 41	—	1 6-0	Very slight.
291	" 29	2 8-0	—	2 19-0	?	—	—	Slight tremors till 5h.
292	" 30	13 46-4	14 57-0	15 4-9	17 30	1-10	—	Commenced abruptly, end faint.
293	Feb. 3-4	23 40-6	0 2-4	0 10-1	0 49	0-32	1 8-0	—
The instrument was dismounted between February 8th and 26th for alterations.								
294	Mar. 3	11 34-8	—	11 37-8	11 42-0	—	0 7-2	Thickening of trace
295	" 10	4 32-4	—	4 34-4	5 18-6	1-05	0 46-2	—
296	" 12	15 28-0	—	—	16 19	—	0 51-0	Frequent slight thickenings of the trace.
297	" 22-23	23 56-0	—	—	0 36	—	0 40-0	—
298	" 28	14 55-1	15 3-6	15 4-2	17 42	1-0	2 47-0	Active A.T.'s 2h. 15m. to 5h. Seismic origin doubtful.
299*	April 17*	—	—	2 54-0	—	—	—	—
		—	—	3 25-0	—	—	—	—
300	" 19	2 43-6	2 53-2	3 0-0	—	1-8	—	Max. in N.S. = 3h. 6-2m. (4-0 mm.)
301	" 19	—	3 37-6	3 43-4	5 30	1-1	—	Max. in N.S. = 3h. 49-2m. (4-0 mm.)
302	" 19	10 50-3	—	10 51-4	11 13-8	0-25	0 23-5	Max. in N.S. = 10h. 52m. (0-45 mm.)
		—	—	10 54-7	—	0-25	—	—
303	" 21	17 37-0	—	17 39-0	—	—	—	Probably insect.
304	" 25-26	23 53-0	—	—	0 39	—	0 46-0	Frequent slight thickenings of trace.
305	" 26	2 30-0	—	3 56-1	5 15	—	2 45-0	Numerous thickenings of trace.
306	May 12	2 30-0	—	3 6-0	—	0-65	—	—
		—	—	3 15-6	—	1-00	—	—
		—	—	0 20-6	—	—	—	—
307	" 19	—	—	2 41-0	—	—	—	Seismic origin doubtful.
		—	—	3 52-8	—	—	—	—
308	" 24	6 44-6	—	6 46-7	6 48-5	—	0 3-9	Isolated thickenings. Times uncertain.
		6 52-4	—	6 54-6	6 55-6	—	0 3-2	—
309	" 25	17 45-0	—	—	18 25	—	0 30-0	Very slight thickenings of the trace.
310	June 2	0 30-0	—	1 51-0	3 30	—	3 0-0	Frequent slight thickenings of the trace.

Register from Royal Alfred Observatory, Mauritius—continued.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
311	June 2	H. M. 13 58-7	H. M. —	H. M. 13 59-5	H. M. —	MM. —	H. M. —	Slight movements (probably A.T.'s) from 2d. 6h. 30m. to 19h. 13m., and 2d. 21h. to 3d. 5h. 30m.
312	" 3	17 4-0	—	17 15-5	17 16-2	—	0 12-2	Frequent slight movements (probably A.T.'s) from 3d. 16h. to 4d. 5h. 30m.
312	" 4	20 49-0	—	—	21 52	—	1 3-0	Some movements between these times appear to be seismic.
314	" 19	—	—	4 7-3	—	—	—	Seismic origin. Frequent slight thickenings of the trace.
315	" 20	—	—	3 37-9	—	—	—	
316	" 21	1 49-0	—	2 25-7	7 44	—	5 55-0	
317	" 22	6 0-0	—	—	13 30	—	7 30-0	
318	" 26	3 30-0	—	4 20-6	5 30	—	2 0-0	Thickening of trace
319	July 3	6 0-0	—	7 9-7	11 0	—	5 0-0	Seismic origin doubtful.
		—	—	7 30-8	—	—	—	—
320	" 6	13 30-0	—	14 7-9	14 45	—	1 15-0	Frequent slight thickenings of trace.
		—	—	14 15-6	—	—	—	—
		—	—	14 25-1	—	—	—	—
		—	—	14 43-7	—	—	—	—
321	" 9	3 58-7	—	4 3-1	4 13-2	—	0 14-5	Thickenings of the trace. Series of regular pulsations (*). An apparently seismic movement among a series of regular pulsations (**), with gradually increasing period lasting from 17h. 45m. to 23h. 45m.
322	" 19	17 30-0	—	17 32-6	17 36-5	—	0 6-5	
323	" 20	9 43-0	—	9 50-0	9 55	—	0 13-0	
324	" 26	—	—	—	3 30	—	3 30-0	
325	" 26	19 29-2	—	20 2-6	—	—	—	Isolated thickening.
326	Aug. 2	10 15-2	—	—	10 20-6	—	0 5-4	Frequent slight thickenings.
327	" 2	11 26-6	—	—	11 39-4	—	0 12-8	—
328	" 2	14 45-1	15 5-1	15 12-4	15 34-3	0-09	0 49-2	—
		—	—	15 16-1	—	—	—	—
329	" 2	23 9-9	—	—	23 12-9	—	0 3-0	—
330	" 2	23 23-7	23 34-5	23 39-3	23 53-7	0-55	0 30-0	—
331	" 3	2 29-0	—	—	3 47	—	1 18-0	Series of pulsations with tremors superposed at intervals.
332	" 7	12 4-2	12 11-6	12 15-0	12 26-0	0-45	0 21-8	Regular pulsations (vide Nos. 324 and 325).
333	" 8	21 0-0	—	—	21 45	—	0 45-0	Irregular tremors 8d. 2h. to 9d. 5h. 45m.
334	" 8	23 46-5	—	23 48-5	23 56-8	—	0 10-3	—
		—	—	23 52-6	—	—	—	—
335	" 9	15 2-5	—	—	15 12-6	—	0 10-1	Frequent slight thickenings.
336	" 11-12	13 0-0	—	—	6 0	—	12 0-0	Continuous tremors, unusually active for A.T.'s. Some movements may be seismic.
337	" 16	8 28-4	—	8 31-8	8 37-9	—	0 9-5	Small tremors till commencement of No. 348.

