

Circular No. 17, issued by the Seismological Committee, Professor H. H. TURNER, 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 sixteen 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; Assistants, MESSRS. HIROTA, BURGESS AND O'NEILL.

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 20 seconds. 1° turn = 4 mm.
- B. Period 20 seconds. 1° turn = 10 mm.
- C. Period 17 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

P_r = Preliminary tremors. p = maximum period. d = duration.
a = amplitude. A_{ts} = Air tremors.

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1907.						
1408	July 1	H. M.	H. M.	MM.	H. M.	A.
		13 21.9	13 52.4	6.5	4 0	B.
		13 23.3	13 56.4	1.0	3 0	C.
1409	,, 4	13 25.6	13 53.3	1.5	>3 0	C.
		0 49.4	1 4.9	0.2	1 0	A.
		0 53.8	1 9.1	0.7	0 25	C. B slight thickenings.
1410	,, 4	9 6.4	9 49.9	0.5	—	A.
		9 9.1	9 51.7	0.3	>1 30	B.
		9 15.3	9 49.1	0.7	1 0	C.
1411	,, 4	22 20.9	22 42.9	0.5	0 40	A.
		22 20.5	22 43.0	0.5	0 30	B.
						C slight thickenings.
1412	,, 5	16 8.8	16 39.3	0.7	1 0	A.
		16 9.0	16 31.6	0.7	>1 0	B.
		16 9.0	16 30.6	0.7	0 30	C.

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

No.	Date	Commence-ment		Max.		Max. Ampli-tude	Dura-tion	Remarks
		H. M.	M. P.	H. M.	M. P.			
1414	July 9	—	—	20	0.2	—	2 15	A. Commence-ment lost.
		19 25.7	—	19 51.2	—	2.0	—	B.
1415	,, 12	19 25.7	—	19 57.2	—	2.5	1 55	C.
		2 42.1	—	20 0.2	—	—	—	A. Slight tremor
1418	,, 17	20 35.5	—	—	—	—	—	A.
1419	,, 20	13 47.7	—	14 46.3	—	1.5	2 0	A.
		13 55.2	—	14 49.7	—	1.0	1 33	C.
1420	,, 21	14 0.3	—	14 47.6	—	1.7	2 17	B.
		13 30.0	—	—	—	—	0 40	A. Slight tremors
1421	,, 23	18 43.4	—	—	—	—	—	A.
		19 48.2	—	—	—	—	—	A. " "
1422	,, 29	1 1.4	—	1 50.6	—	1.0	2 0	A.
		1 2.5	—	1 53.8	—	0.8	2 0	C.
1423	,, 29	1 3.5	—	1 51.7	—	0.5	—	B.
		7 21.4	—	7 49.4	—	0.7	—	A.
1424	,, 29	7 16.9	—	—	—	—	—	B. Slight thick-ening. Also on C.
		18 34.9	—	19 9.4	—	0.2	1 0	A. Slight thick-ening on B and C.
1425	,, 29	19 40.4	—	20 37.4	—	1.0	2 0	A.
		19 53.3	—	20 40.6	—	0.7	1 30	B.
1426	Aug. 1	19 57.4	—	20 46.0	—	0.7	—	C.
		10 11.4	—	—	—	0.5	—	A. tremor. Also on B and C.
1427	,, 5	2 18.7	—	2 47.6	—	0.5	>2 0	A.
		—	—	2 48.9	—	0.5	0 15	C. Commence-ment lost in N.T's.
1428	,, 5	—	—	2 50.9	—	0.5	0 10	B. Commence-ment lost in N.T's.
		7 2.1	—	7 7.6	—	0.7	0 30	A. Period = 9" (about).
1429	,, 7	7 1.7	—	7 30.4	—	0.7	0 40	C. N.T's present
		7 1.2	—	7 38.1	—	0.7	0 45	B.
1430	,, 8	8 26.2	—	—	—	—	0 15	A. Very slight tremor. Also on B and C.
		9 15.3	—	9 54.8	—	0.5	2 0	A.
1431	,, 9	9 15.0	—	9 48.6	—	0.5	2 0	C.
		9 15.5	—	9 56.6	—	0.7	2 30	B.
1432	,, 11	19 14.7	—	19 51.2	—	1.0	2 30	A.
		19 19.0	—	19 52.1	—	0.7	1 45	B.
1433	,, 17	19 31.2	—	19 55.6	—	1.0	1 30	C.
		12 30.7	—	13 3.7	—	0.5	2 0	A.
1433	,, 17	12 34.6	—	13 3.8	—	0.5	1 10	B.
		12 35.7	—	13 4.4	—	0.4	1 5	C.
1433	,, 17	17 34.4	—	17 59.4 (?)	—	1.5	2 3	A.
		17 36.4	—	18 18.4	—	—	—	—
1433	,, 17	17 36.9	—	18 1.4	—	0.7	1 47	C.
		18 1.8	—	18 20.0	—	1.0	—	B.

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

No.	Date	Commence-ment		Max.		Max. Ampli-tude	Dura-tion	Remarks
		H. M.	M. P.	H. M.	M. P.			
1434	Aug. 21	4 29.9	—	—	—	—	—	A. tremor. Be-ginning lost in N.T's.
1435	,, 22	22 44.3	—	23 15.8	—	0.5	1 16	A.
		22 46.5	—	22 58.3	—	0.4	0 35	C.
1436	,, 26	22 46.5	—	23 11.1	—	0.4	0 42	B.
		12 12.7	—	—	—	—	—	—
1437	,, 29	14 18.7	—	—	—	—	—	A. Slight tremors
		20 5.2	—	—	—	—	—	—
1438	,, 30	1 18.0	—	—	—	0.4	—	B. C slight thick-ening.
1439	Sept. 2	15 46.6	—	—	—	—	—	A. Slight tremor.
		16 13.5	—	17 0.5	—	5.0	>3 0	A.
1440	,, 3	16 13.3	—	17 1.5	—	6.5	4 20	C.
		16 16.4	—	17 9.7	—	5.5	—	—
1442	,, 5	16 16.9	—	16 58.0	—	7.2	—	B.
		7 16.9	—	—	—	0.5	—	A. Not on C. A not recording.
1445	,, 15	9 44.4	—	—	—	—	—	A. Slight trace.
		9 59.4	—	—	—	—	—	—
1446	,, 15	9 44.1	—	—	—	—	—	B. Not on C.
		9 55.2	—	18 14.1	—	0.7	>1 0	A. Commence-ment lost in changing film.
1448	,, 22	18 8.3	—	18 18.5	—	0.7	0 38	C.
		18 8.3	—	18 21.6	—	0.4	0 30	B.
1449	,, 22	19 35.0	—	19 46.0	—	0.2	0 39	A. Also on B and C.
		12 31.7	—	13 7.2	—	0.5	1 18	A.
1450	,, 23	12 53.5	—	13 5.3	—	0.5	0 33	C.
		12 57.6	—	13 8.9	—	0.5	0 39	B.
1452	,, 27	14 1.7	—	—	—	—	0 13	A. Also on B. Not on C.
		—	—	22 28.7	—	1.0	—	A. Commence-ment and end lost in N.T's.
1454	Oct. 4	22 15.1	—	22 30.0	—	1.2	0 33	B.
		22 16.1	—	22 25.9	—	1.0	0 45	C.
1455	,, 4	8 58.5	—	9 18.5	—	—	—	A. Very slight tremor.
		11 29.1	—	11 58.1	—	0.2	1 54	A.
1457	,, 6	11 28.9	—	11 44.2	—	0.7	0 34	B.
		11 25.3	—	11 33.9	—	0.6	0 35	C.
1458	,, 10	21 4.6	—	21 23.1	—	0.2	0 42	A. Also on B and C.
		1 9.0	—	1 32.0	—	0.2	0 50	A. Also on B and C.
1458	,, 10	22 22.2	—	23 6.2	—	0.2	1 51	A.
		22 53.0	—	23 6.8	—	0.2	1 10	C.
1458	,, 10	22 55.0	—	23 41.2	—	0.3	—	—
		23 8.4	—	23 46.3	—	0.4	1 11	B.

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
1460	Oct. 11	H. M.	H. M.	MM.	H. M.	
		14 42.2	15 53.2	1.8	2 40	A.
		14 47.6	15 53.8	1.7	2 17	B.
		14 53.0	{ 15 46.6 16 28.3 17 1.2 }	1.2	2 15	C.
1463	,, 16	14 14.5	14 45.0	11.0	>3 0	A.
		14 14.6	14 45.6	12.0	—	B. } Duration
		14 15.3	14 46.1	14.0	—	C. } obscured
1464	,, 17	11 43.6	12 4.6	0.5	2 20	A.
		11 44.7	12 4.7	0.5	0 58	B.
		11 45.2	12 17.0	0.4	0 57	C.
1465	,, 18	12 20.7	12 28.7	0.5	0 34	A.
		12 22.0	12 28.6	0.7	0 27	B. C slight thickenings.
1468	,, 21	4 33.6	{ 4 45.1 4 58.1 5 18.6 4 44.2 4 53.4 5 5.1 5 19.0 4 54.9 4 57.5 5 15.4 }	{ 10.0 9.7 7.0 8.0 11.5 7.0 7.0 11.5 11.0 9.0 }	{ 5 30 — — — — — — — — — — }	A.
		4 32.9				B.
		4 33.9				C.
		—	20 40.2 ?	1.0	—	A. Trace obscured by tremors.
		20 34.0	20 40.2	0.5	—	B. } Duration
		20 36.1	20 40.2	0.7	—	C. } obscured by tremors.
		7 50.3	—	—	—	A. Slight tremor.
		5 24.7	5 52.3	1.5	1 50	A.
		5 27.9	5 47.3	0.8	1 10	C.
		5 28.9	5 51.8	1.0	1 7	B.
1477	,, 29	8 14.8	—	—	0 35	A. Also on B.
		9 39.8	—	—	0 15	" " "
1479	Nov. 1	6 11.7	—	—	—	A. Slight tremors.
		14 45.0	—	—	—	
		15 24.7	—	—	—	
		7 58.6	—	—	0 21	A.
1480	,, 2	11 44.6	—	—	0 15	A.
		22 31.1	22 46.1	0.2	0 34	A.
1481	,, 3	20 43.6	21 21.6	0.5	1 50	A.
1487	,, 13	15 34.5	—	—	—	—
1489	,, 16	22 32.3	23 15.3	0.7	0 52	A.
		22 37.9	23 18.4	0.5	—	B.
		22 38.4	23 9.7	0.7	0 63	C.
		13 15.3	13 24.0	2.5	0 55	B.
1491	,, 19	13 16.9	13 25.5	0.2	0 56	C. A very slight tremor.
		22 34.6	—	—	0 21	A. Also on B and C. Calabria?

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
1494	Nov. 21	H. M.	H. M.	MM.	H. M.	
		8 54.0	—	—	—	—
		9 37.0	—	—	—	—
		10 5.0	—	—	—	—
		10 19.5	—	—	—	—
		12 44.0	—	—	—	—
		15 45.0	—	—	—	—
		15 56.5	—	—	—	—
		20 16.8	21 11.6	1.2	2 44	A.
		20 23.6	21 11.7	0.7	2 8	B.
1495	,, 21	20 23.6	21 0.6	1.0	2 14	C.
		14 19.5	15 2.3	0.7	2 24	A.
1496	,, 24	14 28.8	15 0.6	0.7	1 15	B.
		14 33.9	14 59.0	1.0	1 5	C.
1497	,, 25	4 40.0	—	—	0 20	A. B also.
1498	,, 26	3 34.0	—	—	—	Tremor. Also on B. Not on C.
		4 2.6	4 34.1	0.2	1 11	A.
1499	,, 26	4 18.2	4 26.3	0.2	0 43	C. Also on B.
		2 25.5	—	—	—	A.
1500	,, 27	13 39.0	—	—	—	—
1501	,, 28	19 50.2	20 23.5	0.2	0 50	A. Not on B or C.
1502	,, 29	3 22.0	3 36.2	0.5	0 53	A.
		3 22.4	3 37.8	0.5	0 33	B. Also on C.
1503	Dec. 2	10 4.0	—	—	—	A. On B also. Not on C.
1505	,, 5	13 8.6	13 48.1	0.5	2 1	A.
		13 27.8	13 49.3	0.2	0 47	B. Not on C.
1506	,, 6	20 55.6	21 25.1	0.2	1 5	A. On B. Not on C.
1507	,, 6	23 16.0	—	—	—	A.
1509	,, 15	17 57.6	18 51.6	2.7	2 30 ?	A. Beginning and end obscured by A.T's.
1510	,, 23	18 1.6	18 54.4	1.7	2 16 ?	B. End lost in tremor.
		18 1.6	18 44.2 18 54.4	0.7	1 54	C.
		1 23.6	2 7.3	0.5	1 56	A.
1511	,, 24	1 35.6	2 6.7	0.5	0 58	B.
		1 36.1	2 4.6	0.2	0 45	C.
		9 21.0	—	—	—	Tremor, A.
1512	,, 24	13 13.3	13 50.6	0.6	1 43	A.
1513	,, 25	13 40 ?	13 51.3	0.7	—	B. } Beginning
		—	13 47.2	0.4	—	C. } and end obscured by tremors.
		22 40.6	23 15.1	0.2	0 59	A only.
1514	,, 28	3 35.0	—	—	—	A. Slight tremor
1515	,, 30	5 39.0	6 14.0	9.5	3 34	A.
		5 39.1	6 14.2	9.0	3 12	B.
		5 44.6	6 18.8 6 23.9	5.0	2 52	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
1907.						
784	July 4	H. M. 9 14.5	—	MM. 0.3	H. M. 0 5	Again at 9h. 46 m. and 10h.0m.
785	" 4	23 7.5	—	0.5	0 5	—
786	" 9	19 37.0	19 52.4	1.0	1 35	Movements very small after 20h.
787	" 17	20 36.1	—	0.3	0 4	Slight thickening of line.
788	" 20	14 13.2	14 46.7	0.8	0 55	—
789	" 29	1 48.4	1 57.5	0.4	0 21	Ill-defined.
790	Aug. 5	2 48.2	—	0.3	0 16	Very slight tremor.
791	" 5	7 2.0	7 39.0	0.7	0 53	—
792	" 9	19 52.8	20 6.5	0.6	0 29	—
793	" 17	17 48.0	17 50.5	1.0	1 2	Times somewhat approximate.
794	" 22	22 45.0	—	0.3	0 4	Very slight tremor.
795	" 26	13 20.2	—	0.3	0 8	} Very slight tremor.
		13 59.0	—	0.5	0 5	
796	Sept. 2	16 19.8	16 54.2	4.5	3 25	—
797	" 3	7 4.4	—	0.3	0 7	Slight thickening
798	" 5	9 31.2	—	0.3	0 8	—
799	" 6	11 55.0	—	0.5	0 8	—
800	" 15	7 1.2	7 5.0	0.5	0 11	—
801	" 15	18 8.5	18 15.5	0.6	0 13	—
802	" 15	19 43.3	—	0.3	0 5	Slight thickening
803	" 22	13 3.4	—	0.5	0 24	—
804	" 23	23 18.0	23 23.7	1.0	0 34	—
805	Oct. 11	15 0.0	—	0.5	1 0	Masked by A.T's.
806	" 23	12 18.5	12 20.2	1.0	0 10	Seismic character doubtful.
807	" 23	20 40.0	20 41.8	1.1	0 20	—
808	" 25	7 11.2	—	0.3	0 7	Slight thickening
810	Nov. 21	20 50.0	21 3.8	0.8	0 55	—
811	" 24	14 41.2	15 5.0	0.5	0 38	—
812	Dec. 15	18 4.9	18 54.8	1.0	1 35	—
813	" 18	18 39.2	19 9.3	0.7	0 46	Seismic character doubtful.
814	" 23	1 59.0	—	0.3	0 12	Slight thickening
815	" 30	5 38.9	6 19.3	5.0	2 18	—

July 1, clock stopped.
 October 16-21, room repaired and painted, instrument dismantled and clock cleaned, etc.
 October 27, paper jammed.

Scale—June 28. 1mm. displacement of boom = 0".56 of arc.
 October 15. " " " " = 0".55 " "
 November 19. " " " " = 0".56 " "

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

No.	Date	Commencement	L.W. Commencement	Max.	End	Max. Amplitude	Duration	Remarks
1907								
987	July 1	H. M. —	H. M. 13 20.8	H. M. 13 52.4	H. M. 15 11.6	MM. 2.6	H. M. 1 51	—
988	" 1	—	13 50.4	15 54.0	16 8.2	—	0 18	—
989	" 4	—	1 0.8	1 10.6	1 23.0	0.3	0 22	—
990	" 4	—	9 44.8	9 53.5	10 11.7	0.4	0 27	—
991	" 4	—	22 37.2	22 41.7	22 52.0	0.2	0 15	—
992	" 5	—	16 2.8	16 35.7	17 1.9	0.3	0 59	—
993	" 9	19 38.9	19 48.0	19 58.4	20 27.0	1.8	0 48	—
994	" 14	—	17 10.8	17 14.0	17 21.0	—	0 10	Small.
995	" 19	—	1 58.0	—	2 8.0	—	0 10	Distinct.
996	" 20	14 2.3	14 26.3	14 43.8	15 27.0	1.7	1 25	—
997	" 29	—	15 0.0	16 4.3	16 13.8	0.2	0 14	—
998	" 29	1 16.2	1 31.9	1 53.0	2 26.1	0.4	1 10	—
999	" 29	—	19 10.5	19 15.4	19 26.0	—	0 16	Much disturbance for 2hrs.
1000	Aug. 1	—	10 8.4	10 17.2	10 30.9	0.2	0 22	—
1001	" 5	—	2 43.7	2 49.0	2 56.9	0.2	0 13	—
1002	" 3	—	7 0.8	7 13.2	8 0.4	0.3	1 0	Possibly A.T.
1003	" 9	—	9 36.2	9 47.0	10 19.7	0.2	0 85	—
1004	" 9	—	19 39.4	19 55.1	20 26.7	0.7	0 47	—
1005	" 11	—	12 49.4	—	13 8.6	—	0 19	Irregular disturbance.
1006	" 13	—	22 26.0	22 31.3	23 17.0	0.3	0 51	—
1007	" 17	—	13 11.2	13 17.0	13 37.8	0.2	0 27	—
1008	" 17	17 43.8	17 48.2	17 50.8	19 0.0	1.0	1 16	—
1009	" 21	—	5 42.0	—	5 50.0	—	0 8	Doubtful.
1010	" 22	—	22 44.2	22 48.7	23 18.0	0.2	0 34	—
1011	" 23	—	12 54.0	13 11.2	14 4.7	—	1 11	Small.
1012	" 27	—	11 19.1	11 24.8	11 50.6	—	0 31	—
1013	" 28	—	20 28.4	20 36.0	20 43.1	—	0 15	—
1014	" 29	—	12 0.8	12 6.1	12 25.0	0.2	0 24	—
1015	Sept. 2	16 22.3	16 23.8	17 0.9	20 22.4	4.0	4 0	—
1016	" 9	—	12 32.8	12 37.0	—	—	—	End uncertain.
1017	" 14	—	6 32.6	7 1.7	7 28.2	0.2	0 36	—
1018	" 15	—	18 3.0	18 7.4	18 34.8	0.2	0 23	—
1019	" 15	—	19 45.1	19 50.2	20 8.0	—	0 32	Small.
1020	" 22	—	12 57.2	13 1.8	13 26.7	0.4	0 29	—
1021	" 27	—	9 10.0	9 16.4	9 30.0	0.2	0 20	—
1022	" 2	—	13 43.8	13 50.4	14 3.0	0.2	0 18	—
1023	" 4	10 57.2	11 27.0	11 37.8	12 13.1	0.4	1 16	—
1024	" 5	—	4 29.2	4 32.6	4 42.0	0.2	0 13	—
1025	" 6	—	1 8.7	1 13.0	1 32.2	—	0 24	—
1026	" 10	—	22 56.2	23 7.0	0 2.1	—	1 6	Perhaps two earthquakes.
1027	" 11	15 10.0	15 32.1	15 52.7	16 22.0	0.5	1 12	—
1028	" 16	—	14 18.4	14 46.6	15 7.2	5.3	1 49	—
1029	" 17	—	11 47.5	12 8.3	12 27.0	0.6	0 40	—
1030	" 18	—	12 18.2	12 28.4	12 39.5	—	0 21	—
1031	" 18	—	19 31.7	—	19 43.0	—	0 11	Doubtful disturbance.
1032	" 21	—	4 32.2	4 42.0	5 55.0	2.9	1 23	—
1033	" 23	—	8 2.0	—	8 18.0	—	0 16	—
1034	" 23	—	20 37.4	20 43.0	20 57.1	0.6	0 20	—
1035	" 27	—	12 38.0	—	12 51.0	—	0 13	Perhaps A.T.
1036	Nov. 3	—	20 42.0	—	21 1.0	—	0 19	Small.
1038	" 16	—	22 51.0	23 5.1	23 6.7	0.6	0 16	—
1039	" 24	—	14 46.0	14 54.0	—	—	1.5	Lamp failed.
1040	" 29	—	3 28.0	3 36.4	3 50.8	—	1.0	—
1042	Dec. 15	18 6.2	18 40.0	18 54.3	20 12.0	1.3	2 3	Small disturbance.
1043	" 16	—	—	21 30.9	—	—	—	—
1044	" 23	—	1 58.2	2 4.8	2 16.9	0.3	0 19	—
1045	" 24	—	13 46.2	13 49.8	14 3.7	0.2	0 17	—
1046	" 25	—	22 35.0	—	23 9.0	—	0 34	Small.
1047	" 30	—	—	6 14.0	—	5.0	—	Lamp failed.

Instrument was dismantled and cleaned between November 3 and 15.

Previous to November 3, 1mm. displacement = 0".56 of arc.
 After November 11, 1mm. displacement = 0".53 of arc.

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1907								
July	1	H. M. 13 21.0	H. M. 13 46.0	H. M. 13 59.2	H. M. 14 33.0	MM. 1.0	H. M. 1 12.0	—
"	9	19 39.0	19 50.0	19 52.5	20 24.0	1.2	0 44.5	—
"	12	18 3.5	—	—	18 6.5	0.2	0 3.0	Single tremor, per- haps A.T.
"	20	14 2.0	—	14 38.5	15 5.0	0.4	1 3.0	—
"	29	1 39.5	—	1 53.0	2 28.5	0.2	0 49.0	—
Aug.	5	7 2.5	—	7 37.0	7 57.5	0.4	0 55.0	Begins abruptly.
"	8	9 48.0	—	9 51.0	9 53.5	0.2	0 4.5	—
"	9	19 50.5	—	20 5.0	20 20.0	0.7	0 29.5	—
"	17	17 48.5	17 49.8	18 0.2	18 47.5	0.8	0 59.0	—
Sept.	2	16 21.5	16 54.0	16 56.0	19 35.0	4.5	3 13.5	—
"	22	12 58.0	—	13 1.0	13 16.0	0.4	0 18.0	—
"	23	22 22.0	—	22 25.8	22 48.0	0.6	0 26.0	—
Oct.	4	11 24.5	—	11 36.5	11 53.5	0.4	0 29.0	—
"	11	15 10.0	—	15 40.5	17 2.0	0.2	1 52.0	Small tremors, mostly zigzag.
"	16	14 29.0	14 39.5	14 44.5	16 7.5	4.6	1 38.5	—
"	17	12 8.5	—	—	12 27.0	—	0 18.5	Small tremors.
"	18	12 25.0	—	12 26.0	12 31.5	0.7	0 6.5	—
"	21	4 32.5	—	4 44.0	6 49.0	11.0	2 16.5	—
"	23	20 41.5	—	20 44.0	20 49.0	0.4	0 7.5	—
"	27	5 31.5	5 35.5	5 51.0	6 0.5	1.3	0 29.0	—
Nov.	13	15 32.0	—	15 59.0	15 55.0	0.3	0 3.0	—
"	16	22 57.0	—	23 5.5	23 21.5	0.5	0 24.5	—
"	21	20 47.5	21 2.5	21 5.5	21 45.0	1.0	0 57.5	—
"	24	14 48.0	—	14 55.5	15 9.0	0.4	0 21.0	—
"	29	3 33.5	—	3 35.5	3 38.0	0.3	0 4.5	—
Dec.	15	18 5.0	18 37.0	18 50.5	20 12.5	0.8	2 7.5	—
"	30	5 39.0	6 13.5	6 19.5	7 29.0	3.2	1 50.0	—

1907, July 3. 1° of footscrew = 3.8mm.
Aug. 14. " = 3.5mm.
Nov. 10. " = 3.1mm.

Mean = 3.27mm.

1mm. displacement at end of boom = 0°.584 tilt of pillar.

Register from The Coats Observatory, Paisley.
Directors, THE OBSERVATORY COMMITTEE.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1907								
390	July	4	H. M. 7 25.0	H. M. 7 25.0	H. M. 7 39.5	MM. 0.2	H. M. 0 15.0	?
391	"	9	19 43.0	19 50.0	20 5.5	20 35.0	0.6	0 52.0
392	Aug.	1	—	—	10 0.0	—	—	?
393	"	8	—	—	9 52.0	—	—	Thickening.
394	"	9	—	—	20 0.0	—	0.5	Tremors.
396	"	17	17 48.5	—	17 50.0	18 40.0	0.8	0 51.0
397	"	22	22 45.0	—	—	23 5.0	—	Thickening.
398	Sept.	2	16 21.?	16 31.5	17 0.8	?	3.5	?
399	"	22	—	—	13 0.0	—	0.4	—
400	"	23	—	—	22 29.5	—	0.5	—
401	Oct.	16	14 19.5	—	14 48.0	15 16.0	1.0	0 56.0
402	"	18	—	—	12 27.0	—	—	Thickening.
403	"	21	4 32.8	—	—	6 56.0	—	2 24.0
404	"	23	—	—	19 45.0	—	—	Thickening.

August 11, Thickenings from 12 45 to 14 15.
October 21, Boom held for 5 min. by watch hand. Three maxima: 4 43; 4 57; 5 18.
October 31, Instrument sent to London for repair.

Register from Frensham Hall, Haslemere, Surrey, England.
Observer, SAML. KEVAN.

No.	Date	Com- mence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1907						
145	July	1	H. M. 13 30.26	H. M. 14 0.0	MM. 3.5	H. M. 1 2.2
154	August	5	7 4.40	7 33.0	1.4	0 43.10
156	"	11	11 4.48	—	1.7	1 16.4
157	"	17	17 49.0	17 57.35	1.7	1 10.5
159	"	23	13 12.20	—	0.2	0 5.16
161	Sept.	2	16 1.0	17 8.24	8.0	4 29.25
164	"	15	6 47.19	7 12.0	0.6	1 1.0
166	"	23	10 14.50 P	10 27.0	1.3	0 49.12
169	Oct.	4	11 23.38	11 38.12	1.2	0 40.24
170	"	6	0 18.25	—	0.2	0 16.2
171	"	11	14 44.0	{ 3 59.0 } { 4 25.12 }	—	2 18.30
172	"	16	14 4.0	{ 14 47.12 } { 14 40.0 } { 14 52.30 }	12.8 9.0 7.5	5 16.0
173	"	18	12 6.36	12 31.0	1.1	0 54.0
"	"	21	4 34.13	{ 4 55.24 } { 4 58.18 } { 5 0.20 } { 5 19.48 }	8.0 10.0 11.3 11.0	4 5.0
174	"	23	8 34.10	8 44.20	2.0	0 31.0
175	"	27	5 33.0	5 50.36	1.3	1 6.24
181	Nov.	21	20 50.21	21 8.0	1.8	1 4.10
183	"	29	3 34.40	3 36.24	1.5	0 8.11
187	Dec.	15	18 5.30	18 55.24	2.0	2 5.30

Boom period = 18 sec.

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
1907								
745	July 1	H. M. 3 29.0	H. M. 13 42.4	H. M. 13 50.3	H. M. 14 7.0	H. M. 6 40.8	MM. 6.40	Tremors.
746	" 1	13 16.9	13 42.4	13 50.3	14 7.0	2 39.8	6.40	
750	" 4	9 49.3	—	—	—	0 4.8	0.35	Small movements.
751	" 5	16 36.5	16 36.5	16 41.9	16 46.7	0 21.9	1.10	
754	" 9	19 48.1	19 56.2	19 58.8	20 6.4	0 48.7	1.15	
				20 2.3			1.30	
				20 4.4			1.60	
755	" 20	2 12.7	2 54.3	2 57.5	3 6.7	1 48.9	1.50	
757	" 29	1 1.1	1 32.0	1 37.1	1 40.7	1 46.5	0.50	
758	" 29	20 33.3	20 42.2	20 44.4	20 56.1	0 35.5	0.50	
759	Aug. 5	10 16.8	—	10 18.7	—	0 6.0	—	Small movements.
760	" 5	6 52.9	7 8.0	7 9.3	7 36.1	1 30.1	0.75	
				7 34.8			0.70	
761	" 6	17 54.5	—	17 56.0	—	0 4.0	—	Small movements.
763	" 8	8 46.9	—	8 52.1	—	0 23.9	—	" "
				8 58.6			—	" "
765	" 11	13 1.2	—	—	—	0 17.1	—	" "
766	" 13	22 15.3	—	—	—	1 25.0	—	" "
767	" 17	17 42.3	17 52.6	17 54.2	18 35.1	1 28.3	1.20	" "
				18 23.1			1.10	
769	" 22	22 40.9	—	23 2.4	—	2 54.4	—	Small movements.
773	Sept. 2	16 26.2	16 39.2	17 5.2	17 16.7	3 9.0	4.25	
				17 7.7			5.25	
				17 13.0			4.00	
782	" 15	6 47.2	6 50.4	6 52.9	6 53.9	0 38.6	0.50	Small movements.
783	" 15	18 19.9	—	—	—	0 3.0	0.40	
791	" 22	13 6.9	—	13 11.5	—	0 7.8	0.30	" "
794	Oct. 2	13 41.3	—	13 44.5	—	0 8.7	0.40	" "
797	" 11	15 36.9	—	15 57.9	—	0 57.0	0.50	
800	" 16	14 20.7	14 39.1	14 48.8	14 57.7	2 30.0	4.55	
801	" 21	4 33.3	4 44.8	5 1.3	5 26.8	2 19.5	3.90	
802	" 23	20 35.7	—	20 37.2	—	0 16.0	—	Small movements.
808	Nov. 3	20 10.0	20 19.5	20 22.0	20 26.0	0 55.1	0.50	
811	" 12	7 47.5	8 29.5	8 36.0	8 50.0	1 17.5	0.40	
				8 47.5			0.40	
812	" 15	21 29.0	—	—	—	0 11.0	—	Small movements.
813	" 16	22 51.1	23 10.1	23 13.6	23 19.1	0 51.0	1.30	
815	" 21	20 28.0	20 58.6	21 3.3	21 25.0	2 12.0	0.90	
				21 5.6			0.75	
817	" 24	14 33.1	15 0.6	15 3.1	15 10.7	1 5.5	1.25	
819	" 26	3 43.1	4 25.1	4 28.3	4 47.1	1 17.0	0.45	Tremors till 8h. 35m.
820	" 29	3 30.1	3 36.5	3 38.1	3 40.1	0 17.0	0.50	
822	Dec. 15	17 58.6	18 48.6	18 55.6	19 3.1	2 21.0	1.50	
823	" 23	1 37.0	2 4.0	2 6.0	2 17.0	1 22.5	1.00	
				2 9.5			0.90	
824	" 24	8 32.0	8 41.9	8 44.9	8 50.9	0 26.6	0.60	
825	" 30	5 40.5	6 3.9	6 14.5	6 29.9	2 36.4	3.00	
				6 19.5			2.90	
				6 22.9			3.25	

1mm. = 0".25. Period = 20s.
No records July 8 and 15, September 9, 17 and 23, and December 23.

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	L.W. End	End	Duration	Ampli- tude	Remarks
1907									
63	July 1	H. M. 13 22.0	H. M. 13 45.0	H. M. 14 5.5	H. M. 14 20.7	H. M. 15 48.0	H. M. 2 26.0	2.0	Distinct.
64	" 5	—	—	15 38.0	—	15 41.0	0 36.0	1.0	
65	" 9	18 48.0	—	18 57.0	—	19 2.0	0 14.0	0.5	
66	" 20	1 10.0	—	1 54.0	—	—	—	0.5	
67	Aug. 5	5 56.5	—	6 15.0	—	6 20.0	0 24.5	0.5	
68	" 17	—	—	16 58.0	—	17 22.0	—	0.75	Frequent tremors.
69	Sept. 23	—	—	14 50.5	—	—	—	0.5	
	" 23	22 33.7	—	22 45.0	—	22 48.0	0 15.5	0.3	" "
	Oct. 4	9 52.2	—	10 27.2	—	11 8.0	1 14.5	0.5	
72	" 10	23 34.5	—	23 50.0	—	6 5.0	0 35.5	0.2	
73	" 11	14 52.0	—	15 13.5	—	—	—	0.5	
74	" 14	3 51.0	—	4 6.5	—	4 45.0	0 57.0	0.3	Tremors.
75	" 15	8 15.0	—	8 28.0	—	8 37.0	0 22.0	1.5	Distinct.
76	" 16	13 46.0	—	13 50.0	—	14 1.0	0 15.0	0.5	
77	" 20	10 17.0	—	10 21.0	—	10 49.0	0 32.0	1.0	Distinct.
78	" 21	4 16.0	—	4 32.0	—	5 34.5	1 33.5	2.0	
79	" 23	8 28.5	—	8 50.5	—	8 35.2	0 19.0	2.5	Calabria.
80	" 24	10 28.5	—	—	—	10 31.5	3 0.0	0.2	Slight.
81	Nov. 13	19 48.0	—	—	—	15 3.0	19 25.0	—	Tremors.
82	" 15	21 21.5	—	21 32.5	—	21 48.0	0 26.5	0.5	
83	" 19	—	—	13 20.5	—	13 40.0	—	0.5	Distinct.
84	" 21	20 26.0	20 49.0	20 50.5	20 53.5	21 41.0	1 15.0	2.0	
85	" 25	4 41.0	—	4 55.0	—	4 58.0	0 17.0	0.5	" "
86	Dec. 6	—	—	—	—	—	—	—	
87	" 15	8 21.0	—	19 51.0	—	—	—	0.5	Continuous tremors.
88	" 30	5 51.5	6 13.5	6 16.5	6 37.5	7 39.5	1 48.0	4.0	Distinct.

Period = 20secs. 1° = 6mm. 1mm. = 0".32.

Register from the Royal Observatory, Cape of Good Hope, South Africa.
Director, S. S. HOUGH, M.A., F.R.S.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1907								
431	July 1	H. M. 13 37.0	H. M. 14 11.0	H. M. 14 12.0	H. M. 14 39.0	MM. 1.3	H. M. 1 22.0	
432	" 2	—	—	6 36.0	—	—	—	Slight change of level; shock reported locally.
433	" 4	9 56.0	—	10 2.5	10 10.0	0.3	0 14.0	
434	" 9	19 54.0	—	—	20 5.0	—	0 11.0	Vibrations.
435	" 17	—	—	9 8.0	—	—	—	Change of level.
436	" 20	14 6.0	—	14 42.0	15 5.0	0.5	0 59.0	
437	" 29	0 54.2	—	0 55.0	1 34.0	1.2	0 39.8	
438	" 29	20 22.0	—	—	20 36.0	—	0 14.0	Thickening.
439	" 31	21 0.0	—	—	—	—	—	
440	Aug. 5	7 0.5	—	—	7 40.0	—	6 39.5	Vibrations.
441	" 9	19 15.0	—	—	19 36.5	—	0 35.0	
442	" 19	—	—	10 38.5	—	—	—	Slight change of level.
443	Sept. 2	10 33.0	17 25.5	17 53.5	19 33.5	3.0	3 0.5	

Register from the Royal Observatory, Cape of Good Hope, South Africa—continued.

No.	Date	Commencement		Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.					
444	Sept. 19	—	—	H. M. 16 5·0	—	—	—	Slight change of level.
445	Oct. 2	—	13 7·2	13 8·2	13 20·0	0·6	0 12·8	—
446	" 4	—	11 10·0	—	11 32·0	—	0 22·0	Thickening.
447	" 10	—	22 45·0	—	22 58·0	—	0 12·0	"
448	" 11	15 5·8	15 32·0	15 37·0	15 53·0	1·3	0 47·2	Followed by tremors.
449	" 16	14 33·0	15 18·0	15 22·0	16 21·0	1·6	1 48·0	—
450	" 17	—	—	3 0·0	—	—	—	Thickening—middle time given.
451	" 21	4 37·0	5 7·0	5 34·5	7 48·0	3·0	3 11·0	—
452	" 27	6 3·0	—	6 12·5	6 19·0	0·5	0 16·0	—
453	Nov. 3	20 59·0	—	—	21 21·0	—	0 22·0	Vibrations.
454	" 16	—	—	23 10·0	—	—	—	Thickening—middle time.
455	" 19	—	—	12 52·0	—	—	—	Thickening—middle time.
456	" 21	20 41·0	20 48·0	20 51·0	21 21·0	0·9	0 40·0	Times approx. Watch failed.
457	" 24	15 2·0	—	—	15 14·0	—	0 12·0	Slight thickening.
458	Dec. 15	18 5·0	—	18 42·5	20 3·0	0·7	2 0·0	—
459	" 24	—	—	14 4·0	—	—	—	Thickening.
460	" 28	—	—	3 5·0	—	—	—	Slight thickening.
461	" 30	5 52·0	6 31·3	6 32·3	7 47·3	1·3	1 55·3	—

July 6	1mm. boom motion = 0°·37.	Boom period 20 secs.
" 20	" " = 0°·36.	" 20 "
Aug. 3	" " = 0°·36.	" 20 "
" 24	" " = 0°·40.	" 19·5 "
Sept. 7	" " = 0°·35.	" 20·5 "
" 23	" " = 0°·26.	" 23 "
Oct. 12	" " = 0°·39.	" 20 "
" 26	" " = 0°·41.	" 20 "
Nov. 16	" " = 0°·38.	" 20 "
" 30	" " = 0°·38.	" 20 "
Dec. 14	" " = 0°·36.	" 20 "
" 28	" " = 0°·39.	" 19·6 "

August 10, 10h.36m. to August 11, 7h.30m., boom displaced.
November 10, 10h.6m. to November 11, 8h.30m., lamp failed.

Register from Ponta Delgada, St. Miguel, Azores.
Director, Lieutenant-Colonel F. A. CHAVES.

No.	Date	Commencement		Max. Amplitude	Duration	Remarks
		H. M.	H. M.			
1907						
242	Aug. 5	H. M. 6 56·8	H. M. 6 58·4	MM. 1·0	H. M. 0 29·0	I. of Mercalli's scale. Thickening of line.
243	" 6	17 48·0	—	—	0 2·3	I. idem idem
244	" 13	22 12·5	—	—	0 23·6	I. idem idem
245	" 21	11 25·2	11 27·0	0·8	0 4·4	I. idem idem
246	Sept. 2	16 18·8	16 34·8	3·6	1 23·6	I. idem idem
249	" 22	22 39·5	22 40·0	1·4	0 3·5	I. idem idem
253	Oct. 16	14 9·5	14 39·5	2·8	1 32·0	I. idem idem
253	" 21	4 36·0	4 46·0	3·6	1 37·0	I. idem idem
259	Nov. 29	3 30·5	3 31·5	0·8	0 26·0	I. idem idem
261	Dec. 15	17 55·2	—	—	0 36·8	I. idem idem
262	" 21	20 5·0	20 5·5	1·6	0 5·5	I. idem
263	" 24	13 31·5	13 38·0	1·2	0 24·5	I. idem
263	" 30	5 35·5	6 4·0	2·0	0 16·0	I. idem

Register lost—from 10h.41m. on July 1 to 20h.2m. on July 2.
from 10h.19m. on July 14 to 9h.34m. on July 15.
from 0h.40m. to 14h.50m. on July 27.
on August 5 from 14h.17m. to 17h.50m.
on August 12 from 14h.57m. to 16h.30m.
on October 1 from 9h.43m. to 23h.7m.
on October 28 from 2h.30m. to 17h.17m.
from 22h.30m. on November 1 to 14h.30m. on November 2, and
on November 3 from 4h. to 19h.30m.

Mean scale value, 1mm. = 0°·47.
Amplitude refers to full range of motion.

Register from Alipore Observatory, Calcutta.
Director, GILBERT T. WALKER, M.A., F.R.S.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1907								
521	July	4	H. M. 9 36.5	H. M. 9 38.1	H. M. 9 42.1	H. M. 9 50.8	0.75	0 14.3
522	"	5	16 2.9	—	—	16 34.4	—	0 31.5
523	"	9	19 2.9	19 10.6	19 22.8	20 19.3	3.00	1 16.4
524	"	11	11 50.6	—	11 52.6	12 3.8	6.50 ?	0 13.2
525	"	12	17 20.1	17 29.8	17 31.3	17 44.1	1.25	0 24.0
526	"	20	13 45.4	—	14 3.7	14 22.6	2.00	0 37.2
527	"	27	12 38.8	—	12 46.5	13 2.6	0.50	0 23.8
528	"	29	10 37.9	19 55.7	20 9.5	20 35.4	0.75	0 57.5
529	Aug.	13	22 6.2	—	22 11.8	22 38.7	0.50	0 32.5
530	"	17	12 41.4	—	12 42.9	12 52.7	1.25	0 11.2
531	"	17	17 38.6	—	17 45.9	18 33.7	0.50	0 55.4
532	Sept.	2	16 15.4	16 25.6	16 48.0	19 24.4	2.25	3 9.0
533	"	15	17 54.6	17 59.2	17 59.7	18 17.5	1.25	0 22.9
534	"	15	19 22.1	19 26.1	19 27.1	19 42.9	0.75	0 20.8
535	"	22	12 17.3	12 20.7	12 31.0	13 4.0	1.50	0 46.7
536	Oct.	4	10 38.1	10 50.8	11 2.5	11 40.8	1.75	1 2.7
537	"	11	14 40.0	14 49.2	14 50.7	15 59.9	0.75	1 19.9
538	"	21	4 30.0	—	—	6 59.4	*	2 29.4
539	"	27	5 21.8	5 26.3	5 31.4	6 21.8	3.00	1 0.0
540	Nov.	2	22 27.3	—	22 28.4	22 35.5	0.50	0 8.2
541	"	16	15 37.9	—	—	15 56.7	—	0 18.8
542	"	16	22 18.5	—	22 39.3	22 49.5	0.50	0 31.0
543	"	21	20 10.1	—	20 17.7	21 29.9	? †	1 19.8
544	"	21	22 16.7	—	—	22 23.8	—	0 7.1
545	"	21	23 9.5	23 14.6	23 16.7	23 21.8	0.50	0 12.3
546	"	22	0 10.7	—	0 14.7	0 33.0	1.00	0 22.3
547	"	22	6 13.8	6 19.9	6 22.0	6 50.4	4.50	0 36.6
548	"	24	14 10.7	14 19.3	14 21.9	15 10.1	3.75	0 59.4
549	"	30	12 3.2	12 7.3	12 8.3	12 18.5	1.00	0 15.3
550	Dec.	5	12 49.0	12 58.1	13 1.2	13 20.5	1.50	0 31.5
551	"	5	20 26.7	20 35.9	20 36.9	20 54.8	0.50	0 27.6
552	"	15	17 44.8	17 53.0	18 8.7	19 37.1	1.50	1 52.3
553	"	17	23 36.0	—	23 36.5	23 41.6	0.60	0 5.6
554	"	25	22 40.3	22 43.8	22 44.3	22 53.5	0.50	0 13.2

* Times of maximum and maximum displacement on trace from mean position (mm.) cannot be determined, as the boom moved throughout the trace several times.
† Maximum displacement on the trace from mean position (mm.) cannot be given, as the boom moved throughout the trace.
No trace from August 1 to August 11, as the driving clock was under repair.

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

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

No.	Date	Com- mence- ment	Max.	Max. Ampli- tude	Duration	Remarks
1907						
404	July	9	H. M. 19 11.8	H. M. 19 33.5	H. M. 0 8	0 50.0
407	"	12	17 22.0	17 24.0	1.0	0 14.5
423	"	26	15 54.9	14 16.1	2.0	0 39.3
449	"	29	19 47.0	20 3.1	0.4	0 37.4
470	Aug.	5	7 59.9	8 1.6	0.5	0 24.5
499	"	17	17 43.6	18 16.5	0.5	1 3.0
533	Sept.	2	16 24.8	16 48.1	7.3	—
534	"	2	—	18 34.5	1.5	—
584	Oct.	4	10 41.1	10 51.7	2.1	0 54.4
597	"	11	14 52.1	15 23.4	0.9	—
604	"	16	14 58.8	—	—	1 15.7
611	"	21	4 22.6	—	—	2 35.7
621	"	27	5 24.8	5 30.2	3.1	0 34.4
641	Nov.	16	22 23.8	22 35.1	0.4	0 21.5
648	"	21	20 8.8	20 18.7	6.8	1 3.4
619	"	22	6 19.4	6 22.3	0.5	0 14.0
650	"	24	14 16.4	14 29.2	0.4	0 42.9
666	Dec.	5	12 53.5	12 59.8	0.3	0 25.8
689	"	30	6 49.1	7 0.3	2.2	0 59.2

End cannot be determined.
Beginning cannot be determined.
End lost in shifting time.
Maximum lost in shifting time.
As the traces overlap maximum amplitude cannot be determined.

Between July 1 and December 31, 1907, 1.0mm. of amplitude = 0°.42.

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

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1907								
16	Sept.	2	H. M. 16 14.7	H. M. 16 17.5	H. M. 16 18.1	H. M. 18 7.0	0.5=0.3	1 52
17	Oct.	4	10 39.2	10 43.3	10 43.3	11 16.0	2.4 0.9	0 37
18	"	21	4 34.0	4 36.0	—	6 37.0	—	2 3
19	"	27	5 28.7	5 32.0	5 32.8	5 47.0	2.2 0.9	0 19
20	Nov.	21	20 9.0	20 13.0	20 15.0	21 20.0	4.5 2.2	1 11
21	"	22	No P.T's	6 17.0	6 19.0	6 32.0	0.8 0.4	0 15
22	Dec.	5	12 48.0	12 53.2	12 57.8	13 16.0	0.5 0.2	0 28
23	"	15	No P.T's	17 54.8	17 55.9	18 54.0	0.4 0.2	0 59
24	"	30	5 57.2	6 6.0	6 8.0 7 13.0	7 38.0	0.5 0.2	1 41

September 5, small tremors 23h.3m. and 23h.29m., ending at 23h.40m.
October 5, small tremors from 3h.56m. to 4h.1m.
October 11, small tremors from 15h.15m. to 15h.32m.
November 12, small tremors from 8h.6m. to 8h.16m.
November 16, small tremors from 22h.20m. to 22h.41m.

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

No.	Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1906								
1251	Oct. 2	H. M. < 2 28.3	H. M. —	H. M. 2 24.7	H. M. 5 27	MM. 5.0	H. M. > 2 50	—
1252	" 2	14 47.2	—	15 57.5	16 51	0.3	2 4	—
1254	" 6	13 1.7	13 11.6	13 13.5	13 42	0.5	0 40	—
1256	" 8	5 1.0	—	5 29	5 29	0.3	0 28	—
1257	" 10	7 38.7	—	7 53.3	8 22	0.3	0 43	—
1258	" 10	13 5.5	—	13 11.9	14 18	3.8	1 12	—
1259	" 10	23 18.7	23 55.3	24 6.3	24 52	0.5	1 33	—
1260	" 11	5 25.6	5 42.1	5 43.0	6 49	0.4	1 23	—
1261	" 12	1 5.6	—	1 12.6	1 28	0.2	0 22	—
1263	" 17	9 47.8	9 54.1	10 7.7	11 47	5.0	1 59	—
1264	" 23	3 30.7	—	3 31.6	3 39	0.5	0 8	—
1265	" 24	14 49.8	14 53.7	15 4.6	?	3.5	—	—
1266	" 27	4 1.5	—	4 29	4 29	—	0 27	—
1267	" 28	16 4.0	—	16 5.0	16 41	0.3	0 37	—
1268	" 29	1 34.7	—	1 40.7	2 17	0.2	0 42	—
1269	" 31	1 53.1	1 56.4	1 59.9	2 18	1.6	0 25	—
1272	Nov. 5	20 9.8	20 11.0	20 33.9	21 22	0.5	1 12	—
1273	" 5	23 18.3	—	23 41.4	24 19	0.3	1 1	—
1274	" 6	0 49.8	—	1 7	1 7	—	0 17	—
1275	" 8	0 51.9	0 58.6	1 1.5	1 47	0.6	0 55	—
1278	" 12	17 40.6	17 44.0	17 45.4	18 26	1.4	0 45	—
1282	" 18	22 54.9	—	22 57.3	23 16	0.3	0 21	—
1283	" 19	7 36.8	7 38.9	8 5.0	10 59	9.8	3 22	—
1284	" 25	11 23.5	11 32.2	11 33.4	12 13	0.3	0 44	—
1285	" 28	9 43.0	—	9 46.2	11 17	0.2	1 34	—
1286	Dec. 3	23 21.6	—	23 59.4	24 42	0.2	1 17	—
1287	" 8	14 21.2	—	14 23.2	14 30	0.2	0 9	—
1288	" 12	4 23.9	4 30.5	4 31.3	4 45	0.4	0 21	—
1289	" 17	11 3.2	—	11 3.8	11 32	0.3	0 29	—
1290	" 18	21 23.9	21 55.6	22 4.4	22 36	0.6	1 12	—
1291	" 19	1 32.1	1 39.1	2 19.1	4 30	2.5	2 58	—
1292	" 19	7 36.8	7 37.5	7 38.2	7 47	0.5	0 19	—
1293	" 20	18 1.9	—	18 3.7	18 15	0.3	0 13	—
1294	" 22	18 24.2	—	18 24.2	22 18	>17.0	3 54	—
1295	" 23	7 16.8	7 27.1	7 35.3	8 41	1.3	1 24	—
1296	" 23	13 12.5	—	13 24	13 24	—	0 11	—
1297	" 23	17 30.7	17 30.9	17 57.4	20 46	9.6	3 15	—
1298	" 26	6 14.0	6 35.0	6 36.2	8 9	0.8	1 55	—
1299	" 26	18 17.0	—	18 21.3	18 42	0.4	0 25	—
1300	" 27	8 41.1	—	8 42.4	8 50	0.3	0 9	—

Register from the Royal Magnetical and Meteorological Observatory, Batavia.
Director, W. VAN BEMMELN.

No.	Date	Com- mence- ment	L. W. Commence	Max. Ampli- tude Double	Duration	Remarks
1907						
1020	July 1	H. M. 6 1.0	H. M. —	MM. 0.5	H. M. 0 32	Thickening.
1021	" 1	13 38.9	—	0.6	0 37	—
1022	" 5	16 4.7	—	0.6	0 25	—
1023	" 6	3 14.1	—	0.8	0 24	Thickening.
1024	" 9	7 2.9	—	1.0	0 26	—
1025	" 9	18 59.4	19 4.5	4.5	1 14	—
1026	" 19	1 8.1	—	0.6	1 15	Thickening.
1027	" 20	8 2.1	—	0.5	0 3	"
1028	" 20	14 43.7	14 47.9	10.8	1 2	—
1029	" 21	12 20.2	—	0.5	0 8	Thickening.
1030	" 27	12 34.2	—	0.4	0 13	"
1031	" 28	19 31.8	—	—	—	—
1032	Aug. 2	19 35.1	19 37.1	14.5	1 0	—
1033	" 5	7 5.9	—	0.5	0 9	—
1034	" 5	6 59.1	—	0.9	0 55	—
1034	" 13	7 2.7	—	0.6	0 5	—
1035	" 13	21 59.4	22 7.9	1.5	1 2	—
1036	" 13	23 29.1	—	0.7	0 24	—
1037	" 16	7 46.9	—	0.7	0 7	—
1038	" 17	17 48.4	—	2.3	0 16	—
1039	" 22	22 46.7	—	0.7	0 10	—
1040	" 26	18 58.7	—	1.0	0 33	—
1041	Sept. 2	11 2.0	—	2.4	0 54	—
1042	" 2	16 13.2	16 23.0	2.4	2 11	—
1043	" 3	12 42.2	10 42.5	3.7	0 5	Amplitude measured from baseline.
1044	" 6	7 1.9	—	0.5	0 4	Thickening?
1045a	" 6	11 51.9	—	—	—	—
1045b	" 6	12 19.9	—	—	—	—
1045c	" 6	12 31.7	12 35.7	1.0	—	—
1045d	" 6	12 59.9	—	—	1 11	—
1046	" 6	21 57.6	—	0.8	0 6	—
1047	" 7	18 0.0	—	0.9	0 11	—
1048	" 9	5 13.7	—	0.5	0 9	Thickening.
1049	" 13	8 1.7	—	0.9	0 9	—
1050	" 15	5 43.1	—	0.5	0 12	Thickening.
1051	" 22	12 17.5	—	1.0	0 41	—
1052	" 24	6 8.2	—	0.7	0 9	—
1053	" 25	13 13.3	—	—	—	—
1054	" 26	13 16.7	13 20.5	3.8	0 31	—
1055	" 26	6 5.2	—	0.6	0 2	Thickening.
1056	" 26	12 9.0	—	1.0	0 20	—
1056	" 30	11 4.1	—	0.6	0 2	—
1057	Oct. 4	10 28.7	>34	1 30	1 30	Sudden beginning; clocks stopped.
1058	" 4	16 40.7	—	2.2	0 14	Same origin as No. 1057?
1059	" 5	3 38.2	—	1.0	0 30	—
1060	" 8	22 23.7	—	0.6	0 8	—
1061	" 10	21 52.3	—	1.0	1 0	—
1062	" 11	14 36.7	—	1.2	1 51	—
1063	" 16	14 30	—	0.7	± 1 35	—
1064	" 21	4 33.7	4 42.0 ± 3	± 3	1 40	Bokhara earthquake. Amplitude measured from baseline.
1065	" 23	7 27.5	—	0.5	0 3	—
1065	Nov. 13	15 56.9	—	0.7	0 6	—
1066	" 16	15 40.5	—	0.4	0 3	—
1068	" 16	22 15.1	—	1.4	0 42	—
1069a	" 21	20 7.5	—	—	—	—
1069b	" 21	20 11.5	20 13.3	22	1 38	Amplitude measured from baseline.
1069c	" 21	22 13.4	—	0.8	—	—
1069d	" 21	23 11.4	—	0.7	—	—
1070	" 22	0 9.7	—	1.2	—	End lost by changing film at 0h.21m.
1071	" 22	6 15.7	—	0.9	0 22	—
1072	" 24	14 4.8	14 8.6	2.2	0 38	Amplitude measured from baseline.
1072	" 28	17 43.1	—	1.6	0 9	—
1073	Dec. 5	12 37.9	—	1.7	0 46	" " "
1074	" 5	20 15.0	—	8.8	0 40	" " "
1075	" 6	20 26.0	—	0.5	0 2	" " "
1076	" 7	4 41.6	—	1.0	0 5	—
1077	" 11	20 37.7	—	0.8	0 4	—
1078	" 15	14 42.4	—	1.1	0 8	—

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

No.	Date	Comme- ment	L.W. Com- mence		Max. Ampli- tude Double	Dura- tion		Remarks
			H. M.	MM.		H. M.	MM.	
1079	Dec. 15	H. M. 17 41.9 17 43.3	H. M. 17 48	MM. 3 0	H. M. 1 40	MM. 0 3		
1080	" 18	8 3.5	—	0.0	0 3	—		
1081	" 23	1 31.3	—	0.0	0 31	—		
1082	" 25	9 28.7	—	0.6	0 23	—		
1083	" 27	5 39.4	—	1.1	0 15	—		
1084	" 30	5 46.7 5 51.0	—	—	—	—		
1907—January 1 to February 24 Imm. = 0°36. February 25 to March 31 " 0°50. April 1 to June 30 " 0°54. July 1 to August 4 " 0°49. August 5 to September 30 " 0°81. October 1 to November 11 " 0°81. November 11 to November 30 " 0°46. December 1 to December 6 " 0°55. December 6 to December 31 " 0°55.								

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

No.	Date	Comme- ment	L.W. Com- mence		Max.	End	Max. Ampli- tude	Dura- tion	Remarks
			H. M.	MM.					
1907									
331	May 7	H. M. 10 32.2	H. M.	MM.	H. M.	MM.	H. M.		A. End lost. B not working.
332	" 8	10 2	—	—	11 8	—	1 6		A. Small tremor. B not working.
333	" 10	7 2	—	—	7 49	—	0 47		A. Small tremor. B. "
334	" 12	9 14	—	—	7 44	—	0 44		A. " Not B.
335	" 13	21 21	—	—	24 6	—	2 45		A. Small tremor. B. "
336	" 16	21 21 22 28	—	—	23 43 23 23	—	2 24 0 55		A. " A not working. B. "
337	" 20	8 11.7 8 9	—	—	9 20 9 14	—	1 8 1 5		A. Small tremor. B. "
338	" 20	10 36 10 37	—	—	11 31 11 28	—	0 55 0 51		A. " B. "
339	" 25	12 3 12 13.7	—	—	14 0 13 42	—	1 57 0 3		A. " B. "
340	" 25	14 13.3 14 13	—	—	17 17 17 15	—	0 8 1 5		A. " B. "
341	" 31	13 3.3 13 2.8	14 18.8	14 22.3	15 34 15 26	—	3 2 2 51		A. Small tremor. B. "
342	June 1	4 8	—	—	4 15	—	0 7		A. Only. "
343	" 1	8 52.7 8 59.3	—	—	12 14 11 52	—	1 5 0 6		A. " B. "
344	" 1	23 25 23 27	—	—	23 52 23 44	—	0 27 0 17		A. Very small tremor. B. Very small tremor.
345	" 3	6 47.7 6 46.4	6 53.5	6 55.2	7 12 7 10	—	0 2 0 2		A. " B. "

Register from Helwan Observatory, Cairo, Egypt—continued.

No.	Date	Comme- ment	L.W. Com- mence		Max.	End	Max. Ampli- tude	Dura- tion	Remarks
			H. M.	MM.					
346	June 5	H. M. 3 40	H. M.	MM.	H. M.	MM.	H. M.		A. " B. "
347	" 6	17 2 16 51	—	—	18 10	—	1 19		A. Very small tremor. B. Very small tremor.
348	" 10	20 28	—	—	—	—	—		B not working.
349	" 13	9 36.5 9 35	9 47.5 9 45.6	10 37.7 10 35.2	12 10 12 12	1.5 0.6	2 34 2 37		A. " B. "
350	" 14	21 4	—	—	21 29	—	0 25		A. Very small tremor. B. "
351	" 15	21 10 0 53	—	—	21 21 1 16	—	0 11 0 23		A. " B. "
352	" 20	12 31 12 33	—	—	13 32 13 28	—	1 1 0 55		A. " B. "
353	" 23	10 22 10 25.4	—	—	10 29.4 10 31.6	—	0 7 0 6		A. " B. "
354	" 24	11 15.3 11 16.7	11 17.4 11 18.6	11 18.0 11 19.3	12 3 11 55.8	— 0.6	0 48 0 39		A. " B. "
355	" 24	18 44 18 48	—	—	18 55 18 57	—	0 11 0 9		A. Small tremor. B. "
356	" 24	22 12.6 22 10.4	—	—	22 26 22 28	—	0 13 0 18		A. " B. "
357	" 24	0 32.6 0 36.6	0 42.5 0 40.5	—	1 54.7 2 22	0.5 0.6	1 22 1 45		A. " B. "
358	July 1	13 29	—	—	16 11.5	—	2 42		A. Continuous tremors with some waves of 30 secs.
359	" 4	13 28.5 9 24 9 25	—	—	16 14.8 19 17 9 33.7	— 1.5 1.0	2 46 0 53 0 58		B. " A. " B. "
360	" 9	19 13.1 19 14	19 17.8	—	19 19.5 21 40	—	0.5 2 26		A. Well marked tremors. B. Well marked tremors.
361	" 12	17 42 17 34	—	—	18 20 18 11	—	0 38 0 37		A. " B. "
362	" 20	13 52.2 13 55	13 58.1	—	14 5.7 14 34	0.6 0.5	2 51 3 10		A. " B. "
364	" 29	0 57 0 57	—	—	2 7 2 8	0.5 0.5	2 27 2 3		A. " B. "
365	" 29	19 46 19 55	19 55	—	21 25	—	2 3		A. Times uncertain to 2 mins.
366	Aug. 5	19 38 6 58.8 6 57.9	19 52.4 7 3.7 7 7.0	—	21 16 7 51.0 7 49.2	— 1.5 1.0	1 38 2 36 2 33		A. " B. "
367	" 9	19 25	—	—	20 13.8	—	0 7		B. A not working.
368	" 17	17 39	—	—	17 52	—	0 4		B. Not A.
370	Sept. 2	16 14.9 16 14.2	16 25.0 16 24.2	—	17 10.2 17 6.8	—	4 56 4 52		A. " B. "
371	" 15	6 31	—	—	7 46 7 53	—	1 15		A. Small tremor. B. "
372	" 15	17 59.0 17 58.5	—	—	18 11.7 18 8.6	—	0 32 0 45		A. " B. "
373	" 19	19 19	—	—	20 46	—	1 27		B. Small tremor. Not A.
374	" 23	10 2	—	—	10 24	—	0 38		A. Small tremor. B. "
375	" 23	10 0 22 20	—	—	11 3 24 40	— 0.2	1 3 2 20		A. " B. "
376	Oct. 2	13 18.8 13 18.9	13 39.4 13 41.0	—	14 32 14 50	0.4 0.3	2 11 1 31		A. " B. "
377	" 4	10 44.9 10 49.1	10 55.3	—	11 23.5 11 17.2	—	2 49 2 11		A. " B. "
378	" 6	1 18	—	—	2 8	—	0 50		A. Small tremor.
379	" 10	22 5 22 54	—	—	24 53 24 16	—	2 28 1 22		A. " B. "
380	" 11	14 45.4 14 56	—	—	16 15.4 17 32	0.7 0.3	2 53 2 36		A. " B. "
381	" 16	14 34.8 14 56	—	—	16 39.8 17 47	—	1 8 3 18		A. " B. "
382	" 21	4 30.4 4 29.8	4 35.6 4 34.8	—	5 6 5 6	—	12.5 4 36		A. " B. "

Register from Helwan Observatory, Cairo, Egypt—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
383	Oct. 23	H. M. 7 44	H. M. —	H. M. 8 3.5	H. M. 8 41	MM. —	H. M. 0 57	A. Small tremor.
384	" 23	7 52.5	—	8 3	8 44.5	—	0 52	B. "
		20 37	—	20 47	20 58	—	0 21	A. "
		20 34	—	20 42	21 18	—	0 44	B. "
386	" 27	5 22.6	5 28.1	5 38.8	?	1.5	?	A. "
		5 21.4	5 26.6	5 37.0	?	2.0	?	B. "
389	Nov. 2	6 22	—	after 6 38	?	?	?	A. not working 6h. 38m. to 13h.
390	" 2	6 23	—	—	9 53	0.1	3 31	B.
391	" 2	11 32	—	—	12 50	0.1	0 58	B.
		22 24	—	22 33.8	23 0	0.3	0 36	A.
		22 24.7	—	22 32.4	23 6.1	0.4	0 41	B.
394	" 3	7 16	—	—	7 33	0.1	0 17	A.
		7 15	—	—	7 33	0.1	0 18	B.
395	" 3	20 22	—	—	23 8	0.1	2 46	A.
		20 36	—	—	23 14	0.2	2 38	B.
397	" 4	13 49	—	—	14 7	0.1	0 18	B.
403	" 8	13 0	—	—	13 33	0.1	0 33	A.
		13 6	—	—	13 31	0.1	0 25	B.
404	" 8	22 4	—	—	27 50	0.1	5 46	A. only.
410	" 12	6 20	—	—	9 27	0.1	3 7	A.
		6 20	—	—	9 36	0.1	3 16	B.
411	" 13	4 56	—	—	5 20	0.1	0 54	A.
		4 52	—	—	5 48	0.1	0 56	B.
414	" 15	15 51	—	—	16 3	0.1	0 12	D. only.
415	" 15	21 11.7	21 13.5	21 15.0	21 51.5	0.3	0 40	A.
		21 10.3	21 13.5	21 13.5	21 51.0	0.6	0 40	B.
416	" 16	10 32	—	—	11 50	0.1	1 18	A.
		10 40	—	—	11 44	0.1	1 4	B.
419	" 16	22 32	—	—	24 5	0.1	1 33	A.
		22 28	—	—	24 5	0.2	1 37	B.
421	" 19	6 1	—	—	7 5	0.1	1 4	A.
		5 42	—	—	7 20	0.2	1 38	B.
422	" 19	13 36	—	—	14 33	0.2	1 57	A.
		13 9	—	—	14 18	0.2	1 9	B.
426	" 21	20 14.5	20 22.6	20 45.3	23 17	2.5	3 3	A.
		20 21.2	—	20 43.2	23 52.5	2.3	3 31	B.
427	" 22	0 38	—	—	0 55	0.2	0 17	A.
		0 26	—	—	1 0	0.2	0 34	B.
428	" 22	6 25.2	—	6 50.4	7 46	0.2	1 21	A.
		6 26	—	6 48.8	7 50	0.4	1 24	B.
429	" 24	14 12	—	—	16 38	0.3	2 26	A.
		14 20	—	—	16 48	0.3	2 28	B.
430	" 25	4 47	—	—	5 35	0.2	0 48	A.
		4 41	—	—	5 34	0.2	0 53	B.
435	Dec. 3	5 15.4	—	—	4 49	0.1	1 34	A. only.
437	" 5	12 57.7	—	13 26.7	14 22	0.6	1 24	A.
		12 57.9	—	13 21.6	14 24	0.4	1 26	B.
438	" 5	20 45.4	—	—	21 28	0.2	0 43	A.
		20 33.8	—	—	21 24	0.2	0 50	B.
442	" 13	5 32.8	—	—	5 46	0.1	0 13	A. only.
443	" 15	17 34.1	—	18 48.0	21 18	0.5	3 24	A.
		17 34.6	—	—	21 24	0.4	3 29	B.
445	" 18	2 57	—	—	8 0	0.2	5 3	A.
		5 0	—	—	8 0	0.1	1 0	B.
446	" 19	23 40	—	Dec. 19	13 24	0.1	14 4	A. Continuous tremors.
447	" 19	5 57.4	—	7 27.9	12 55	0.4	6 58	B.
		17 31.4	—	Dec. 20	12 10	0.2	18 39	B. Continuous tremors. A not working.
448	" 23	1 27	—	—	3 22	0.1	1 55	A.
		1 26.6	—	—	3 22	0.1	1 53	B.
449	" 23	14 32	—	—	14 45	0.1	1 13	A.
		14 32	—	—	14 36	0.1	1 4	B.
450	" 24	6 3	—	—	6 13	0.1	0 10	B. only.
451	" 24	13 45	—	14 13	15 14	0.4	1 29	A.
		13 34	—	14 10	15 11	0.4	1 37	B.
452	" 25	9 31	—	—	10 23	0.1	0 32	A.
		9 46	—	—	10 19	0.1	0 35	B.
453	" 25	22 41	—	—	23 15	0.2	0 34	A.
		22 42	—	—	23 29	0.2	0 47	B.
454	" 26	3 12.4	—	—	4 20	0.1	1 8	A.
		3 14.8	—	—	4 0	0.2	0 45	B.

Register from Helwan Observatory, Cairo, Egypt—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
455	Dec. 30	H. M. 5 40.8 5 45	H. M. 5 51.8	H. M. doubtful 6 46	H. M. 10 0 10 25	MM. 0.9 1.8	H. M. 4 19 4 40	A. B.

NOTE.—Times have an uncertainty of one minute from December 17 to December 25 for Seismograph A, and from December 24 to December 25 for Seismograph B.

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1907								
253	Jan. 1	H. M. 1 18	H. M. —	H. M. 1 25	H. M. 1 59	MM. 0.3	H. M. 0 41	—
254	" 2	12 16	13 23	13 29.5	16 14	2.5	3 58	—
255	" 4	5 22	5 33	—	5 51	8.5	3 33	—
256	" 4	10 18	—	10 21	10 28	0.3	0 10	—
257	" 6	23 53	—	23 57	0 10	0.3	0 17	—
258	" 7	3 7	—	—	3 38	—	0 31	Thickening.
259	" 8	6 6	—	6 20	7 16	1.6	1 10	—
260	" 12	8 48	—	—	9 9	—	0 21	Thickening.
261	" 15	21 33.5	—	—	21 55.5	—	0 20	—
262	" 18	9 36.5	—	—	9 40.5	—	0 4	—
263	" 25	17 27	—	—	17 30	—	0 3	—
264	" 31	8 42.5	—	—	9 19.5	—	0 37	—
265	" 31	12 44.5	—	—	12 54.5	—	0 10	—
266	Feb. 2	9 17.5	—	—	9 23.5	—	0 6	—
267	" 3	19 53.5	—	—	20 53.5	0.3	1 0	—
268	" 3	1 4	—	—	1 30	0.6	0 26	—
269	Mar. 27	1 4	—	—	21 25.5	22 6	0.8	1 10
270	" 31	20 17.5	—	—	20 40.5	0.8	1 51	—
271	April 6	20 35.5	—	—	20 47.5	—	0 12	Thickening.
272	" 10	9 46	—	—	9 47.5	1.0	0 9.5	—
273	" 15	6 7.5	6 35.5	—	6 37.5	3.5	3 38	—
					7 26.5	3.2		
274	" 18	21 21.5	—	—	21 43.5	22 39.5	1.1	1 18
275	" 19	0 7.5	—	—	0 44.5	1 36.5	0.9	1 29
276	June 1	9 11	—	—	9 15.5	11 29	0.9	2 18
277	" 8	6 49.5	—	—	6 50	6 54	0.5	0 4.5
278	" 13	9 32	—	—	10 51.5	11 19	0.3	1 47
279	" 24	16 18.5	—	—	16 21.5	16 46.5	0.7	0 28
280	" 25	18 0.5	—	—	18 13	19 13.5	2.2	1 13
281	" 27-28	23 45.5	—	—	0 35.5	—	0 50	Thickening.
282	July 1	13 34	—	—	14 26	15 30	0.4	1 56
283	" 4	10 27	—	—	10 36.5	10 52	0.8	0 25
284	" 20	2 0	—	—	2 40.5	3 7	0.4	1 7
285	" 29	1 31	—	—	1 54	2 24	0.4	0 53
286	" 29	19 52.5	—	—	—	20 39	—	0 46.5
287	Aug. 5	6 58	—	—	7 9.5	8 13	0.4	1 15
288	" 9	1 18	—	—	2 29	2 57	0.5	1 39
289	" 9	20 5	—	—	20 10	20 30	0.5	0 25
290	" 13	22 18	—	—	22 42	—	0 24	Thickening.
291	" 17	18 15	—	—	19 10	—	0 55	—
292	Sept. 2	16 19	—	—	16 48	19 35	2.5 +	3 16
293	Oct. 2	13 50	—	—	14 13	—	0 23	Thickening.
294	" 4	10 49.5	—	—	11 25	11 45	0.9	0 55.5

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
295	Oct. 11	H. M. 14 58	H. M. —	H. M. —	H. M. 16 6	MM. —	H. M. 1 9	Thickening.
296	" 16	14 32.5	—	15 5	16 37.5	1.2	2 5	—
297	" 21	4 29	—	4 34.5	6 30	20 +	2 1	Karadagh.
298	" 27	5 22	—	5 28	5 56	1.0	0 34	—
299	Nov. 4	13 46	—	—	13 52	—	0 6	Thickening.
300	" 15	21 15	—	—	21 20	—	0 5	—
301	Dec. 23	14 32	—	—	14 34	—	0 2	"

Period of pendulum 16 seconds. 1mm. = 0°45.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1907								
412	Oct. 16	H. M. 15 5	H. M. 15 18	H. M. 15 39	H. M. 16 38	MM. 2	H. M. 1 33	—
413	" 21	4 52	?	5 2	5 30	—	0 38	Thickening of line
414	Nov. 16	10 26	?	10 28	10 39	1	0 13	—
415	" 19	12 44	—	12 46	12 54	1	0 10	—
416	Dec. 30	5 35	5 36	5 56	6 34	6	0 59	Verged in tremors, 6 hours.

Register from Cordoba, Argentina.
Director, W. G. DAVIS.

No.	Date	Commencement	Max.	Amplitude	Duration	Remarks
1904						
980	Jan. 3	H. M. 19 11.5	H. M. 19 12.2	MM. 0.5	H. M. 0 5.8	True E.Q.
982	" 7	14 17	—	—	3 0.0	Erratic movements with dislocations.
984	" 17	13 30.5	13 32.3	2.5	0 12.5	True E.Q. Beginning somewhat abrupt.
985	" 20	15 1.8	{ 15 18.8 15 26.2	2.0	2 26.0	True E.Q. Beginning uncertain.
991	Feb. 4	20 53.9	21 0.0	1.0	1 45.7	True E.Q. Beadlike.
998	March 2	2 38.1	—	0.2	0 0.5	Slight, beadlike; true E.Q.

Register from Cordoba, Argentina—continued.

No.	Date	Commencement	Max.	Amplitude	Duration	Remarks
1000	March 19	H. M. —	H. M. —	MM. 17.0	H. M. —	Strong E.Q. shortly after 4h.; time lost.
1010	April 18	18 36.6	{ 18 40.2 18 51.4	0.5	0 43.2	True E.Q. slight.
1017	May 2	10 22.8	—	1.5	0 8.0	>
1020	June 5	23 56	23 58	1.0	0 7.1	True E.Q.
1022	" 6	22 9.2	—	0.2	0 0.5	Small dot; a very sensible movement was felt in Casquin, 25 miles west of Cordoba.
1023	" 7	20 17	20 17.3	0.2	0 5.0	Two slight thickenings of line.
1029	" 18	6 13.2	6 22.9	1.0	0 28.5	True E.Q.
1034	" 25	16 13.3	16 57.8	0.5	1 23.5	Well-defined E.Q., beadlike.
1035	" 25	21 24.8	21 46.3	0.6	2 17.0	Well-defined E.Q., beadlike.
1036	" 27	0 33.3	1 22.8	0.6	2 4.5	True E.Q.
1037	" 30	2 53.6	3 35.3	0.2	1 0.0	Minute thickenings.
1038	" 30	9 10.8	10 5.9	0.5	1 10.0	Apparently true E.Q.

Register uncertain from 14h. on January 7 to 14h. on January 14.

Record lost from 19h. to 20h.30m. on January 27.

Register lost from 10h.45m. on March 15 to 14h.15m. on March 16.

Register lost from 4h. to 14h.15m. on June 1.

Record lost from 14h.17m. on June 23 to 14h.17m. on June 25.

Sensibility of instrument 0°95. 4° of test screw = 8 divisions of boom.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1907								
487	Jan. 2	H. M. 12 45.0	H. M. —	H. M. 12 56.5	H. M. 15 45.0	MM. 2.0	H. M. 3 0.0	True Eqle. movt.
488	" 4	5 41.6	—	6 12.9	8 45.0	1.5	3 3.4	" "
492	" 14	21 15.0	—	54.9	—	2.0	0 42.0	True Eqle. movt. Kingston.
496	" 19	8 48.1	—	8 52.2	9 5.1	1.0	0 17.0	True Eqle. movt.

Register from Geographical Society, Lima—continued.

Date	Commencement	Maximum	Max. Amplitude	Duration	Remarks
Oct. 21	H. M. 4 45	H. M. 6 18	MM. 0.5	H. M. 2 15	—
" 22	6 53	—	—	—	Lima, No. 4 Rossi-Forrel. Local.
" 23	21 3	—	—	—	—
" 23	22 17	11 18	0.2	0 33	—
Nov. 16	10 22	10 22	1.0	0 17	Entire Peru, from Nos. 3 to 5 Rossi-Forrel.
" 19	12 27	12 32	0.25	0 22	—
" 24	9 13	—	0.25	—	Sudden change of level.
" 28	22 5	22 6	0.5	0 5	—
Dec. 2	2 50	—	0.1	—	Sudden change of level.
" 10	14 47	—	0.1	—	" "
" 12	11 3	11 4	0.25	0 3	—
" 15	18 48	18 59	0.5	0 47	—
" 18	15 50	—	—	0 3	—
" 19	17 26	—	0.25	—	—
" 21	16 25	16 25	0.8	—	—
" 21	21 23	—	0.1	—	Sudden change of level.
" 24	13 50	13 51	0.3	0 3	—
" 30	5 31	5 37	3.0	1 42	Heavy surf on subsequent days.

Note.—Times given are Greenwich mean time, but approximate only, as there is no observatory in Lima. The Government are now arranging to receive time signals from Washington, in which case Peru will use the 75 degree as Standard for the whole country. Average of three tests for sensibility:—1 degree on calibrating screw gave 4mm. on photographic film.

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

No.	Date	Commencement	L.W. Commence	Max.	End	MAX. Amplitude	Period of Pendulum	Remarks
1907								
1	Jan. 1	H. M. 1 37.5	H. M. —	H. M. —	H. M. 1 56.0	MM. —	SECS. 0.3	Two swellings about 5m. each. E. Q. 1. P. 55m. See footnote *.
2	" 2	12 21.4	12 49.6	12 58.7	15 46.0	—	3.7	Beads. P.P. for 20m. Beg. at 6.13.
3	" 4	5 41.8	—	5 48.6	6 50.0	—	4.0	Swelling beads.
4	" 8	5 45.0	—	—	7 33.0	—	0.6	E. Q. Sharp beginning. Beg. is probably L.W. Kingston E. Q.
6	" 12	8 7.0	—	—	9 2.0	—	0.5	Swelling of line.
7	" 14	20 46.8	20 48.7	20 50.4	21 41.0	—	2.2	—
11	" 19	13 53.0	—	14 2.0	15 0.0	—	0.5	—

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Period of Pendulum	Remarks
12	Jan. 20	H. M. 8 30.0	H. M. —	H. M. —	H. M. 10 20.0	MM. —	SECS. 0.2	Series of swellings.
35	April 15	6 14.2	—	6 29.0	9 45.0	—	15.5	Great Mexican E. Q.
36	June 1	8 49.5	—	9 40.3	10 30.0	—	1.4	E. Q.
37	" 5	3 30.5	3 41.1	—	5 20.0	14.03	1.0	E. Q.
38	" 25	18 20.7	—	18 21.0	18 22.5	—	0.2	—
39	July 1	13 16.19	13 25.17 to 13 29.0	—	14 10.0	—	3.5	—

* E. Q. Fairly strong for 2h. Very strong for 25m. Beginning of L.W. not definite, perhaps at 6h.0m. Many sudden shiftings of beam 1 or 2mm. to the S.E., and gradually recovering on the second halves of the following days:—2, 3, 4, 5, 7.

No records—March 21, 15h. to 20h. April 26, 16h. to April 29, 14.9h. May 13, 18.4h. to 21.4h. May 14, 0h. to 9.1h. May 20, 18.5h. to 20.9h. June 9, 20h., to June 10, 21.5h. June 12, 15h., to June 13, 2h. June 20, 17.5h., to June 22, 17.6h. June 24, 19.6h. to 21.8h. June 26, 21h., to June 29, 17.8h. July 1, 23h., to July 2, 1.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
1907								
759	July 1	H. M. 13 16.3	H. M. —	H. M. 13 38.8	H. M. 14 38.0	MM. 2.3	H. M. 1 21.7	Fairly large and very active.
760	" 8	13 58.6	—	—	14 0.0	0.1	0 1.4	Very slight thickening.
761	Aug. 5	No P.T.'s	6 59.0	6 59.1	7 35.5	1.0	0 36.5	Began abruptly. Max. at beginning.
762	" 7	17 2.0	—	—	17 3.0	0.05	0 1.0	Mere thickening.
763	" 8	No P.T.'s	9 22.4	—	9 42.4	0.7	0 20.0	Small. Began suddenly.
764	" 11	12 41.2	—	—	12 41.5	0.05	0 0.3	Barely noticeable.
765	" 13	22 17.5	—	—	22 23.5	0.1	0 6.0	—
766	" 17	Lost. Attending in-strument.	17 Attending in-strument.	—	18 45.0	0.6	Lost	Small.
767	" 22	23 57.1	—	—	23 29.0	0.1	0 31.9	Slight thickening.
768	Sept. 2	16 14.3	16 33.5	16 43.4	19 27.3	13.8	3 13.0	Large.
769	" 23	21 52.3	21 58.7	21 59.3	22 55.0	1.6	1 2.7	Moderate (Guatemala).
770	Oct. 6	1 2.0	—	—	1 10.0	0.1	0 8.0	Very small.
771	" 16	14 4.8	14 13.3	14 18.5	16 4.5	Over 20	1 59.7	Very large. Off the paper.
772	" 17	11 36.1	—	11 42.0	11 59.2	1.0	0 23.1	Small. Marked tremors.

Register from Toronto, Ont., Canada—continued.

No.	Date	Com-mence-ment	L.W. Commence	Max.	End	Max. Ampli-tude	Duration	Remarks
773	Oct. 21	H. M. Air c. 4 47-0	H. M. 5 25-0	H. M. 5 27-6	H. M. Air c.	MM. 1-7	H. M. Air c.	Medium and marked. Air c. going on.
774	Nov. 2	6 33-9	—	—	6 36-9	0-1	0 3-0	—
775	" 16	10 33-7	—	—	10 59-7	0-1	0 17-0	Marked thickening
776	" 18	19 56-0	—	—	19 59-0	0-05	0 3-0	—
777	" 21	21 24-0	—	—	21 39-0	0-15	0 15-0	—
778	" 29	3 47-7	—	—	3 52-8	0-15	0 5-1	—
779	Dec. 15	17 37-5	—	—	17 39-5	0-95	0 2-0	—
780	" 15	18 36-9	—	—	18 39-5	0-1	0 23-5	—
781	" 30	5 34-1	5 41-5 5 46-7	5 49-5	8 15-0	7-9	2 40-9	Large.

Vibration of boom, 14.6 seconds. Angular value, 0°66.

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

No.	Date	Com-mence-ment	L.W. Commence	Max.	End	Max. Ampli-tude	Duration	Remarks
784	Nov. 21	H. M. 21 11-5	H. M. —	H. M. —	H. M. 21 43-5	MM. 0-15	H. M. 0 32-0	—
785	Dec. 15	18 0-0	—	—	19 10-0	0-2	1 10-0	Thickening. Sus- picion of air c.
786	" 30	5 35-6	6 1-8	6 2-3	7 56-8	5-0	2 21-2	Fairly large.

July 28, 2 a.m. to 3 a.m., Victoria time (120th meridian) well-defined quake, felt in Victoria and vicinity at 2.20 a.m. Duration 4.5 seconds. N.-S. movement. Preceded by a rumbling noise, many people awakened and alarmed. (Nothing on trace.)

On September 1 at 13.25 (Victoria time) a distinct earthquake from N.-S. Felt in various places in Victoria, and on islands and mainland. Apparently a very slight disturbance on the seis. trace.

Vibration of boom, 15 seconds. Angular value, 0°76.

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

No.	Date	Com-mence-ment	L.W. Commence	Max.	End	Max. Ampli-tude	Duration	Remarks
1907								
760	July 1	H. M. 13 13-5	H. M. —	H. M. 13 32-0	H. M. 14 44-0	MM. 1-0	H. M. 1 29-5	Medium.
761	" 3	18 17-1	—	—	18 21-8	0-1	0 4-7	—
762	" 4	0 28-8	—	—	0 46-3	0-2	0 17-5	—
763	" 10	4 12-7	—	—	4 16-7	0-1	0 4-0	—
764	" 20	14 4-8	—	—	14 29-8	0-15	0 25-0	—
765	Aug. 5	6 51-7	—	—	7 43-7	0-3	0 52-0	—
766	" 8	9 26-4	—	—	9 28-4	0-1	0 6-4	—
767	" 11	12 22-7	—	—	12 30-5	0-4	0 7-8	Small and well- defined.
768	" 13	22 10-9	—	—	22 22-0	0-15	0 11-1	—
769	" 17	17 37-5	—	—	18 33-2	0-8	0 55-7	Small and well- defined.
770	" 22	22 44-3	—	—	22 53-3	0-15	0 9-0	—
771	" 29	0 49-9	—	—	0 56-3	0-15	0 6-4	—
772	Sept. 1	21 23-5	—	—	13 23-7	0-05	0 0-2	—
773	" 2	16 10-1	16 18-2	16 29-3	18 53-4	13-2	2 43-3	Very large.
774	" 23	21 49-5	21 54-4	22 56-0	22 56-0	2-2	1 6-5	Small but well- defined. Guate- mala.
775	" 24	11 48-9	—	—	11 54-9	0-1	0 6-0	—
776	" 24	13 29-9	—	—	13 42-4	0-3	0 12-5	—
777	Oct. 11	14 53-7	—	—	15 48-7	0-2	0 55-0	—
778	" 16	14 2-2	14 8-5	14 11-3	16 39-5	over 18	2 37-3	Very large. Ex- ceeded width of paper.
779	" 17	11 51-3	—	—	12 7-3	0-15	0 16-0	—
780	" 21	4 48-9	—	5 20-3	6 49-1	1-1	2 0-2	Medium. Well- defined.
781	Nov. 2	6 16-0	—	—	6 21-0	0-9	0 5-0	—
782	" 16	10 38-5	—	—	10 44-7	0-1	0 6-2	—
783	" 18	19 23-7	—	—	19 31-2	0-2	0 7-5	—

Register from Honolulu, T.H.
Observer, W. F. WALLIS. Compiler, J. W. GREEN.

No.	Date	Com-mence-ment	L.W. Commence	Max.	End	Max. Ampli-tude	Duration	Remarks
1907								
289	Jan. 1	H. M. 0 36-9	H. M. 0 57-3	H. M. 1 1-3	H. M. 2 38-3	MM. 0-6	H. M. 1 1-1	—
290	" 1	22 51-3	23 0-3	23 3-9	23 12-3	0-6	0 21	—
291	" 2	12 4-3	12 14-5	12 21-6	—	4-1	—	—
292	" 2	14 14-0	14 18-5	14 19-9	16 12-3	1-3	1 57	—
293	" 4	5 34-1	5 44-5	6 19-4	9 35-0	5-1	4 1	—
294	" 6	23 24-3	—	—	23 29-7	—	0 6	Tremor only.
295	" 7	14 15-2	—	14 42-2	15 25-0	0-3	1 10	—
296	" 8	1 27-0	—	—	1 55-0	—	0 8	Very slight.
297	" 8	5 36-0	6 23-0	6 28-0	7 54-0	0-5	2 18	—
298	" 11	0 1-4	—	0 3-3	0 19-3	0-9	0 9	Probably local.
299	" 12	8 0-5	8 2-3	8 7-3	9 1-0	0-9	1 9	—
300	" 14	9 28-1	9 36-9	9 37-5	10 11-6	0-5	0 44	Probably local.
301	" 14	21 0-4	—	21 26-0	21 44-3	0-2	0 44	Slight tremors.
302	" 15	12 20-3	—	12 21-3	12 23-6	0-3	0 3	—
303	" 18	23 15-8	—	—	23 18-8	0-3	0 3	—
304	Feb. 3	6 52-8	—	6 57-8	7 10-0	0-4	0 17	—
305	" 3	19 46-0	20 0-5	20 12-3	20 55-0	2-5	1 9	—
306	" 16	21 30-5	21 38-5	21 42-7	22 8-3	1-7	0 38	—
307	" 17	—	7 49-9	7 52-5	—	0-8	—	Slight tremor.
308	Mar. 3	1 41-0	—	—	1 49-0	—	0 8	—
309	" 8	0 45-2	—	—	0 48-4	0-2	0 3	—
310	" 13	1 1-3	1 11-3	1 13-7	1 22-0	0-3	0 21	—
311	" 19	22 38-3	—	22 46-6	22 52-0	0-5	0 14	—
312	" 22	7 32-8	—	7 37-3	7 46-5	0-2	0 14	—
313	" 29	20 58-2	21 9-3	21 36-0	22 12-0	0-8	1 14	—
314	" 31	22 8-0	22 14-2	22 14-4	23 52-0	2-7	1 44	—
315	April 7	10 8-3	—	—	10 19-0	0-4	0 11	Slight tremor.
316	" 15	6 17-8	6 26-2	6 37-2	9 57-0	11-0	3 39	—
317	" 18	21 12-0	21 32-2	21 42-8	—	6-2	—	—
318	" 19	0 11-1	0 19-0	0 38-3	2 43-0	3-2	2 32	—
319	" 24	23 46-2	23 59-0	24 5-3	24 46-0	0-5	1 0	—
320	May 3	21 12-0	—	21 17-6	21 38-0	0-2	0 21	Tremor.
321	" 4	6 0-6	6 13-0	6 21-4	7 39-0	2-0	1 38	—

Register from Honolulu, T.H.—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks	
322	May 4	H. M. 8 46.4	H. M. 9 1.6	H. M. 9 9.8	H. M. 10 48.0	MM. 2.8	H. M. 2 2	—	
323	" 12	7 52.8	7 56.4	8 1.7	8 51.0	0.5	0 58	Slight tremor.	
324	" 13	21 19.8	21 27.5	21 34.8	22 58.0	2.5	1 47	—	
325	" 14	4 3.3	—	4 9.0	4 32.0	0.4	0 49	Slight tremor.	
326	" 25	—	14 17.2	14 17.5	—	1.6	—	Beginning and end obscured.	
327	" 26	11 23.3	—	11 29.8	11 52.0	0.4	0 29	Slight tremors.	
328	" 27	5 24.3	—	5 29.8	5 57.0	0.2	0 32	" "	
329	" 27	11 54.8	—	11 57.7	12 0.8	0.2	0 6	" "	
330	" 31	12 51.8	—	12 57.6	13 2.3	14 13.0	3.1	1 21	" "
331	June 1	9 2.5	9 17.4	9 21.8	12 0.0	1.5	2 58	—	
332	" 5	3 44.0	3 58.4	4 2.3	6 13.4	3.2	2 29	—	
333	" 13	—	10 4.0	10 5.8	—	0.6	—	Other phases obscured.	
334	" 20	12 14.4	—	12 18.0	12 21.6	0.2	0 7	Slight tremors.	
335	" 24	3 58.8	—	4 25.0	4 40.0	0.2	0 41	" "	
336	" 25	3 4.4	3 15.0	3 19.4	3 46.9	1.5	0 43	" "	
337	" 25	—	18 15.6	18 38.0	20 37.4	2.8	—	Beginning uncertain.	
338	" 25	23 1.5	—	23 3.3	23 9.5	0.2	0 8	Slight tremor.	
339	" 26	1 41.6	—	1 45.4	1 45.4	0.1	0 4	Intermittent tremors.	
340	" 26	5 13.2	—	5 27.8	5 52.8	0.6	0 39	Doubtful.	
341	" 26	14 28.0	—	14 54.0	—	0.3	0 26	—	
342	" 26	—	17 45.2	17 50.4	18 20.6	2.0	—	Slight tremors.	
343	" 27	1 32.4	—	1 38.0	0.1	—	0 6	—	
344	" 27	22 42.3	22 50.3	22 53.5	23 43.0	2.2	1 1	—	
345	" 29	9 56.6	—	—	10 3.0	0.2	0 6	Slight tremor.	

Notes.—January 1 to June 30, 1907.

Period of pendulum nearly constant at 19.4s. to 19.8s. Sensitiveness of instrument:—imm. on the trace corresponds to a tilt of 0°40.

No record.—April 21, 12h.43m. to 15h.51m., clock stopped; May 5, 3h.51m. to 8h.32m., clock stopped.

Very frequently there was an irregular disturbance ascribed to the effect of air currents, usually beginning about midnight and continuing until about nine o'clock in the morning (10h.30m. to 19h.30m. G.M.T.).

346	July 1	13 20.3	13 29.1	13 44.6	—	1.3	1 0	—
347	" 4	0 31.6	—	0 33.6	1 2.0	0.4	0 30	Tremors.
348	" 5	—	16 11.4	16 13.7	—	0.8	0 20	Beginning and end obscured.
349	" 7	13 42.8	—	—	13 51.0	0.2	0 8	Doubtful.
350	" 9	19 16.1	19 29.9	19 40.6	21 16.0	1.4	2 0	—
351	" 12	2 14.8	—	2 18.0	2 21.4	0.2	0 7	Tremor.
352	" 12	17 37.4	—	17 41.8	18 14.4	0.2	0 37	—
353	" 16	14 38.4	—	14 40.3	14 42.5	0.4	0 4	Doubtful.
354	" 20	13 50.3	14 12.6	14 22.4	—	1.4	0 34	—
355	" 29	1 5.3	—	1 12.6	2 31.0	0.2	1 26	Tremors.
356	" 29	19 52.5	20 9.9	20 15.7	20 49.3	0.6	0 57	—
357	Aug. 5	6 56.8	7 27.2	7 29.0	8 38.0	0.9	1 41	Tremor.
358	" 8	9 26.5	—	9 29.6	9 36.4	0.2	0 10	—
359	" 9	19 28.0	19 39.2	19 43.3	20 46.0	0.6	1 19	Tremors.
360	" 13	20 52.2	—	21 1.4	21 11.8	0.2	0 20	—
361	" 13	22 3.1	22 4.2	22 8.0	23 1.0	0.6	0 59	Tremor.
362	" 15	20 55.0	—	20 59.8	21 3.3	0.2	0 8	—
363	" 16	7 45.3	—	7 50.0	7 53.3	0.2	0 8	—
364	" 17	—	17 42.8	17 55.9	—	1.9	—	Other phases obscured.
365	" 23	22 35.2	22 37.3	22 37.5	23 0.0	0.9	0 25	Doubtful.
366	" 27	2 38.0	—	2 40.0	2 54.3	0.1	0 16	May be air tremors.
367	" 29	0 42.8	0 50.3	0 53.2	1 57.0	0.6	1 14	—
368	Sept. 2	—	16 17.6	16 18.6	20 16.0	2.6	4 0	—
369	" 6	5 25.0	—	—	5 29.0	0.1	0 4	Tremor.
370	" 6	22 15.0	—	—	22 16.5	0.1	0 2	Doubtful.
371	" 6	23 18.5	—	—	23 21.6	0.1	0 3	Tremor.
372	" 15	6 7.3	—	6 13.0	6 26.6	0.2	0 19	—
373	" 17	19 51.0	—	—	19 55.0	0.2	0 4	" "
374	" 17	20 14.8	—	—	20 29.8	0.2	0 15	" "
375	" 22	12 47.2	—	—	12 48.5	0.6	0 14	" "
376	" 23	21 53.4	21 59.4	22 2.8	23 22.0	1.9	1 29	—
377	" 24	6 6.2	—	6 12.0	6 24.0	0.2	0 18	Tremors.
378	" 28	3 28.4	—	—	3 38.0	0.1	0 10	Very small tremor.

Register from Honolulu, T.H.—continued.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
379	Oct. 2	H. M. 1 42.0	H. M. 1 45.4	H. M. 2 15.0	H. M. 2 47.0	MM. 1.0	H. M. 1 4	—
380	" 4	20 9.8	—	—	21 13.0	0.1	0 58	Slight tremors.
381	" 5	4 9.0	—	—	4 24.4	0.1	0 15	" "
382	" 10	22 1.0	22 12.0	22 17.0	22 59.0	1.5	0 58	" "
383	" 11	—	15 1.0	15 3.8	—	—	—	Other phases obscured.
384	" 16	14 5.0	14 15.2	14 19.0	—	5.9	0 25	—
385	" 17	3 42.6	—	4 28.4	4 53.6	0.5	0 11	Slight tremor.
386	" 21	4 42.4	5 15.2	5 39.1	8 3.6	1.5	3 26	—
387	" 27	0 22.5	—	0 26.4	0 31.6	0.2	0 9	Slight tremor.
388	" 30	1 35.6	—	1 39.6	1 43.0	0.2	0 7	" "
389	" 31	19 48.0	—	19 54.4	19 58.8	0.2	0 11	" "
390	Nov. 1	1 30.0	—	1 32.1	1 36.5	0.1	0 6	" "
391	" 2	6 28.4	—	6 30.6	6 35.8	0.2	0 5	" "
392	" 3	20 1.2	20 10.8	20 17.6	21 5.0	1.3	1 4	" "
393	" 13	3 34.2	—	3 35.6	3 39.8	0.2	0 6	Slight tremor.
394	" 15	14 32.1	—	14 34.7	14 39.6	0.5	0 8	" "
395	" 16	10 41.4	—	10 42.6	11 2.7	0.8	0 21	" "
396	" 16	22 30.4	22 50.7	22 52.1	23 7.5	0.5	0 37	" "
397	" 19	5 32.2	—	5 10.2	5 22.3	0.1	0 13	Slight tremor.
398	" 19	22 2.6	—	22 5.1	22 17.6	0.2	0 15	" "
399	" 21	20 26.3	20 53.4	21 4.4	22 31.0	0.5	1 5	" "
400	" 24	14 20.0	14 34.4	14 46.5	15 4.0	0.9	0 44	—
401	" 26	3 12.4	—	3 25.4	3 52.0	1.4	0 40	—
402	" 27	2 12.2	—	2 16.1	2 24.5	0.5	0 12	Slight.
403	" 28	19 32.1	—	19 36.1	19 44.1	0.2	0 12	" "
404	Dec. 14	17 0.0	—	17 1.2	17 8.6	0.1	0 4	Very slight.
405	" 15	—	18 8.2	18 10.8	—	3.0	—	Beginning and end obscured.
406	" 20	7 22.8	—	7 23.4	7 33.6	2.0	0 10	Local shock.
407	" 23	1 25.0	1 37.8	1 41.8	2 0.5	1.0	0 38	Tremors.
408	" 25	9 26.1	9 31.2	9 35.0	9 45.2	0.5	0 19	—
409	" 30	5 37.7	5 58.4	6 6.3	6 32.0	2.2	0 54	—

Notes.—July 1 to December 31, 1907.

Period of pendulum nearly constant at 19.1s. to 19.4s. Sensitiveness of instrument:—imm. on the trace corresponds to a tilt of 0°40.

No record.—November 4, 2h. to 19h., lamp extinguished; November 7, 17h., to November 8, 19h., lamp extinguished.

Very frequently there was an irregular disturbance ascribed to air currents, usually beginning about midnight and continuing until about nine o'clock in the morning (10h.30m. to 19h.30m. G.M.T.).

Register from Perth Observatory, Western Australia.

Director, W. E. COOKE, M.A., F.R.A.S., &c.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Remarks
1907							
43	July 9	H. M. 19 11.5	H. M. 19 15.5	H. M. 19 19.3	H. M. 20 10.5	MM. 0.7	—
44	" 20	1 47.9	1 50.9	2 11.3	2 39.9	1.3	—
45	" 23	1 4.5	1 7.5	1 9.5	1 3.5	0.5	—
46	" 29	1 15.0	1 25.0	1 29.0	1 48.0	—	—
47	" 29	7 40.3	7 46.0	7 49.5	8 33.0	—	—

Register from Perth Observatory, Western Australia—continued.

No.	Date	Comme- ment		L.W. Comme- ment	Max.	End	Max. Ampli- tude	Remarks
		H. M.	H. M.					
48	Aug. 13	21 57.5	22 5.5	22 12.5	23 7.0	3.75	—	
49	" 23	1 37.6	1 38.1	1 43.1	2 0.1	0.5	—	
50	" 26	7 8.5	7 9.5	7 19.0	7 22.5	0.5	—	
51	Sept. 2	4 25.1	4 32.1	4 55.6	7 30.1	2.0	—	
52	" 15	5 36.5	5 41.0	5 44.0	5 50.5	0.5	—	
53	" 23	7 13.3	7 19.3	7 26.8	7 29.3	0.75	—	
54	" 25	1 23.2	1 27.2	1 31.2	1 46.2	1.25	—	
55	Oct. 2	1 42.0	1 45.0	1 47.0	1 53.0	0.75	—	
57	" 4	10 38.3	10 39.3	10 46.3	11 4.3	1.75	—	
				10 53.3	—	1.75	—	
58	" 10	21 53.0	21 59.0	22 6.0	23 9.0	1.75	—	
				22 8.5	—	3.0	—	
59	" 11	14 37.4	14 49.2	15 1.4	16 6.9	7.0	—	
60	" 11	20 38.9	20 45.9	20 49.9	21 24.9	1.75	—	
61	" 16	15 3.5	15 10.0	15 45.5	16 49.5	0.75	—	
62	" 17	4 4.5	4 16.5	4 19.5	4 35.5	0.5	—	
63	" 21	4 37.0	4 47.0	5 26.0	6 35.5	3.75	—	
64	Nov. 3	20 8.5	20 13.0	20 24.5	21 25.5	3.5	—	
65	" 12	7 20.5	7 35.8	7 42.5	8 8.0	0.75	—	
	" 13	3 59.9	Small tremors	4 12.8	—	—	—	
66	" 19	21 48.4	21 50.8	21 52.4	22 23.4	1.0	—	
67	" 21	20 19.5	20 22.0	20 37.4	21 27.5	2.25	—	
68	Dec. 15	17 48.5	17 53.0	17 57.3	19 45.5	6.25	—	
				18 0.5	—	6.5	—	
				18 4.5	—	7.0	—	
60	" 25	9 23.9	9 37.9	9 39.4	9 55.4	0.5	—	

Register from Sydney Astronomical Observatory, New South Wales.
Director, H. A. LENEHAN. Observer, W. C. GRAHAM.

No.	Date	Comme- ment		L.W. Comme- ment	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.						
1907									
101	July 1	13 29.7	13 40.1	13 40.9	13 47.5	0.3	0 17.8	—	—
102	" 9	19 9.5	19 14.2	19 30.5	20 2.6	0.5	0 53.1	—	—
103	" 12	17 30.8	17 53.4	17 55.2	22 18.2	0.35	4 47.4	—	—
104	" 13	14 17.8	14 44.5	14 47.6	15 44.8	0.25	1 27.0	—	—
105	" 13	16 15.5	16 34.5	17 15.8	18 59.4	0.4	2 43.9	—	—
106	" 20	5 42.9	—	5 43.9	5 49.2	0.45	0 6.3	—	Short tremor.
107	" 20	13 47.0	13 53.5	13 57.0	14 42.1	2.0	0 65.1	—	—
108	" 23	17 58.7	18 10.4	18 17.3	21 29.4	0.35	3 30.7	—	—
109	" 29	19 43.1	19 54.6	19 49.1	20 30.0	1.1	0 46.9	—	—
110	" 30	15 29.7	15 47.5	15 51.3	18 1.9	0.7	2 32.2	—	—
111	" 30	19 59.0	20 13.3	20 23.3	21 55.9	0.4	1 56.0	—	—
112	Aug. 7	2 30.7	2 31.7	2 32.5	2 50.4	0.3	0 19.7	—	—
113	" 7	3 10.1	3 16.1	3 29.6	4 12.6	0.43	1 2.5	—	—
114	" 7	6 17.6	6 25.8	6 27.6	7 11.1	0.25	0 53.5	—	—

Register from Sydney Astronomical Observatory, New South Wales—continued.

No.	Date	Comme- ment		L.W. Comme- ment	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.						
115	Aug. 13	2 19.9	2 36.7	2 38.1	3 6.4	0.5	0 46.5	—	—
116	" 13	4 1.5	4 20.1	4 27.0	7 9.4	0.35	3 7.9	—	—
117	" 13	21 54.4	21 58.5	22 0.8	22 54.9	2.5	1 0.5	—	—
118	" 18	17 32.9	18 4.4	18 7.9	18 23.9	0.3	0 51.0	—	—
119	" 18	20 20.5	20 29.5	20 37.0	20 58.7	0.5	0 38.2	—	—
120	" 23	13 30.9	13 32.2	13 36.9	13 42.9	0.8	0 12.0	—	—
121	" 26	19 14.8	19 17.7	19 19.4	19 46.3	0.35	0 31.5	—	—
122	Sept. 4	20 8.0	20 41.0	20 33.9	21 41.5	0.45	1 33.5	—	—
123	" 6	0 43.8	1 18.6	1 23.6	1 30.0	0.35	0 46.2	—	—
124	" 9	10 10.9	10 27.9	10 39.5	11 9.2	0.5	0 58.3	—	—
125	" 9	22 57.1	23 34.1	23 40.1	—	0.7	5 47.6	—	—
	" 10	—	—	—	4 44.7	—	—	—	—
126	" 11	3 4.0	4 17.6	5 51.7	18 25.2	0.5	5 21.2	—	—
127	" 24	0 29.3	0 50.1	0 58.7	4 13.3	0.3	3 44.0	—	—
128	" 24	5 59.6	6 4.6	6 7.0	8 48.6	0.4	2 49.0	—	—
129	" 25	—	13 27.9	13 31.6	13 42.9	0.6	0 15.0	—	—
130	" 30	23 45.9	—	—	—	—	—	—	—
	Oct. 1	—	0 42.9	0 44.5	7 20.9	0.5	7 35.0	—	—
131	" 2	1 28.0	1 29.2	1 33.1	1 40.5	1.9	0 12.5	—	—
132	" 2	1 50.9	1 51.9	1 58.5	2 28.4	2.7	0 37.5	—	—
133	" 4	10 47.8	10 59.2	11 1.5	11 36.5	0.5	0 48.7	—	—
134	" 8	9 34.0	6 41.0	6 51.0	7 11.8	0.5	0 37.8	—	—
135	" 9	15 4.2	15 11.4	15 12.9	16 19.2	0.4	1 15.0	—	—
136	" 10	21 52.4	21 55.7	21 57.6	22 59.9	5.0	1 7.5	—	—
137	" 11	13 35.0	14 36.7	14 46.3	16 3.2	7.8	1 30.2	—	—
138	" 11	20 37.8	20 39.4	20 40.3	21 19.5	0.9	0 41.7	—	—
139	" 17	4 5.5	4 8.7	4 19.3	4 16.1	1.0	0 19.6	—	—
140	" 17	19 5.4	19 10.6	19 11.9	19 20.4	0.7	0 15.0	—	—
141	" 21	3 42.0	4 48.3	5 10.0	6 32.0	0.9	1 50.0	—	—
142	" 28	0 22.4	0 22.7	0 22.8	0 27.2	0.75	0 4.8	—	—
143	Nov. 3	19 47.6	19 58.1	20 19.1	21 45.7	1.9	1 26.6	—	—
144	" 12	7 8.8	7 16.3	7 20.1	7 49.3	0.65	0 40.5	—	—
145	" 19	5 2.0	5 10.3	5 12.0	5 18.4	0.6	0 16.4	—	—
146	" 19	21 46.6	21 48.1	21 53.8	22 0.9	1.25	0 14.3	—	—
147	" 21	9 12.5	9 15.5	9 19.8	9 26.6	0.4	0 14.1	—	—
148	" 21	20 23.7	20 39.2	20 50.2	21 28.7	0.9	1 5.0	—	—
149	" 24	14 15.7	14 26.5	14 29.9	14 39.7	0.6	0 44.0	—	—
150	" 26	3 2.6	3 5.9	3 6.6	3 51.6	0.7	0 49.0	—	—
151	" 28	19 14.7	19 17.5	19 20.9	19 35.2	0.7	0 20.5	—	—
152	Dec. 18	17 42.6	17 51.5	17 52.4	19 23.7	15.6	1 41.1	—	—
153	" 30	5 37.4	5 44.2	5 47.4	7 21.3	0.6	1 43.9	—	—

1906

Aug. 17 0 36.2 1 31.2 1 52.9 4 37.0 7.3 4 1.0 Valparaiso.

1907—Thickening of line from 21h.53m. on July 5 to 5h.53m. on July 6.

" " on July 7 from 19h.18m. to 21h.4m.

" " on July 8 from 15h.30m. to 21h.53m.

" " on July 10 from 0h.41m. to 8h.24m.

" " on July 13 from 20h.54.2m. to 22h.53.5m.

" " on August 17 from 17h.45.5m. to 22h.1.9m.

Clock stopped on 14h.10m. on September 1 to 23h.48m. on September 2.

Lamp failed between 3h.20m. and 23h.30m. on September 22.

Thickening of line on October 3 from 7h.44.8m. to 16h.53.5m.

" " on December 27 from 3h.16m. to 15h.19m.

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

Date	P.T.	B.	Max.	Amp.	E.	Duration	Remarks
1907							
July 18	H. M. 0 43.1	H. M. —	H. M. 0 51.2	MM. 0.23	H. M. —	H. M. 0 19.6	—
" 18	5 6.7	—	5 10.8	0.8	—	0 37.9	—
" 20	—	—	14 21.5	0.8	—	—	In middle of night tremors.
" 29	0 55.7	—	1 27.3	0.6	—	1 24.9	—
" 29	19 51.4	—	20 11.0	0.4	—	0 52.7	—
Aug. 4	6 39.1	—	6 44.8	0.3	—	0 59.5	—
" 5	7 2.7	—	7 4.7	0.3	—	1 10.2	—
" 18	21 54.4	22 5.7	22 6.8	2.4	22 11.9	1 17.5	Small, sudden. Swelling.
" 16	3 57.7	—	6 21.7	—	—	0 14.5	Very small.
" 18	6 17.9	—	6 16.8	—	—	0 20.7	"
" 19	6 9.5	—	7 13.1	—	—	0 28.0	"
" 23	7 10.0	—	13 47.3	0.1	—	0 22.7	"
" 23	13 38.0	—	19 23.9	0.3	—	0 49.6	"
" 28	19 29.8	—	8 43.9	0.3	—	0 15.5	"
Sept. 31	8 43.8	—	8 43.9	0.3	—	—	A.T. continued for 2h. ±.
" 2	16 28.3	16 54.2	16 35.7	1.5	17 1.4	—	—
" 15	5 28.3	5 32.9	5 36.6	2.2	5 40.2	1 30.0	Thickening of line.
" 24	6 0.7	—	—	—	—	0 32.1	Swelling.
" 24	16 58.6	—	17 3.8	1.4	—	0 34.1	—
" 29	5 3.8	—	—	—	—	0 8.3	Swelling.
Oct. 2	1 35.0	—	2 5.8	1.9	—	1 49.3	—
" 10	Indefinite	22 5.1	and 2 7.7 22 5.8	3.5	22 9.2	Indefinite	In middle of continuous tremors.
" 11	Indefinite	Indefinite	14 54.9	5.9	Indefinite	Indefinite	In middle of night tremors.
" 17	4 15.6	—	4 18.1	0.2	—	0 18.4	—
" 17	9 0.2	—	9 2.3	0.4	—	0 10.2	—
Nov. 3	Indefinite	18 6.3	18 10.9	2.5	18 45.1	Indefinite	Followed by continuous tremors.
" 8	12 37.9	—	12 43.1	0.4	—	—	—
" 8	21 49.3	—	21 59.7	0.3	—	0 22.8	—
" 12	7 10.0	—	7 14.2	0.9	—	1 12.4	Followed by continuous tremors.
" 13	3 26.7	—	3 34.9	0.8	—	1 3.1	—
" 19	4 54.6	—	4 59.8	0.9	—	0 43.4	—
" 19	21 49.4	—	and 5 11.7 22 6.5	0.45	—	0 44.5	—
" 21	9 4.9	—	9 14.8	0.45	—	0 48.7	—
" 21	20 48.4	—	21 12.2	0.6	—	0 48.6	—
" 25	0 23.7	—	0 33.8	0.3	—	0 33.1	—
" 26	3 5.8	—	3 14.0	0.8	—	0 45.5	—
" 27	2 6.7	—	2 9.8	0.35	—	0 3.3	—
" 28	3 41.9	—	3 55.3	0.2	—	0 26.9	—
Dec. 11	1 9.0	—	1 27.3	0.6	—	0 52.8	—
" 12	22 13.9	—	22 18.0	0.1	—	0 6.2	—
" 15	Indefinite	17 55.3	18 7.8	4.8	18 50.1	Indefinite	P.T. and A.T. obscured by N.T.'s.
" 18	1 41.3	—	1 46.5	0.15	—	0 9.3	—
" 23	1 36.6	—	—	—	—	0 29.0	Thickening of line.
" 30	6 45.3	7 27.8	7 35.5	1.9	7 52.6	2 21.7	—

P.T. = Preliminary tremors less than 2mm. complete range.
B.E. = Beginning and end of vibrations not less than 2mm.
A.T. = After tremors less than 2mm. complete range.
Amplitude = half range in millimetres.