British Association for the Advancement of Science.

Circular No. 18, *issued by the Seismological Committee*, Professor H. H. Turner, *F.R.S.* (*Chairman*), Mr. John Milne, *F.R.S.*, *Shide, Isle of Wight* (*Secretary*).

Contents.

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 seventeen circulars and in the Reports of the Association, 1896 to 1899.

If observers 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 follow:—

A. Period 13 seconds. 1° turn = 2 mm.
B. Period 18 seconds. 1° turn = 6 mm.
C. Period 17 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

Ats. = Air tremors.

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
			1908			
		H. M.	H. M.	MM.	H. M.	
1516	Jan. 1	12 59·4	13 59·4	—	3 0	A. Not on B and C.
1517	,, 4	22 53·8	23 10·3	0·2	0 48	A. Not on B and C.
1518	,, 5	2 59·3	3 12·8	0·4	0 47·5	A. Not on B.
1519	,, 6	15 42·6	—	—	—	Tremor, B. Not on C.
1520	,, 7	8 31·0	—	—	—	B. Not on C. A not working.
1521	,, 8	9 21·2	—	—	—	A only.
1522	,, 11	3 45·6	4 29·3	5·2	2 57	A.
			4 34·5	6·2	—	—
		3 45·6	4 28·4	5·0	—	B. End lost in A.T's.
			4 33·4	7·0	—	—
		3 45·6	4 32·5	3·0	—	C.

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
1523	Jan. 12	10 22·5	—	—	1 8·2	A only.
1524	,, 13	7 56·7	—	—	0 26·8	,,
1525	,, 15	12 8·9	—	—	—	A and B.
1526	,, 15	13 9·9	13 53·9	1·5	2 52·5	A.
		13 19·1	13 52·6	2·0	1 43·7	B.
		13 20·1	13 52·6	1·5	1 42·7	C.
1527	,, 16	9 29·2	9 58·7	0·5	1 29	A.
		9 55·7	10 3·8	0·5	1 3	B.
		9 53·6	9 54·7	0·2	1 6	C.
1528	,, 19	8 11·0	8 24·3	0·2	0 36	A. Not on C.
1529	,, 24	23 52·7	23 59·6	0·5	0 29	A.
		23 52·3	23 58·0	0·5	0 26	B. Also on C.
1530	,, 25	20 29·2	—	—	0 14	A only. Slight tremor.
1531	,, 31	5 2·2	5 21·0	0·5	0 53	A. B and C not working.
1532	Feb. 1	23 24·0	23 57·0	2·0	2 42	A.
		23 24·0	0 4·0	1·0	2 59	B.
		23 31·0	23 50·0	0·75	2 36	C.
1533	,, 2	14 56·0	15 35·0	0·2	1 34	A.
		14 56·0	15 42·0	0·2	1 36	B.
		14 53·0	15 32·0	0·3	1 39	C.
1534	,, 4	7 33·0	—	—	0 48	B, tremor. Also on A and C.
1535	,, 5	12 41·4	13 2·4	0·2	0 48	A.
		12 45·1	13 1·9	0·1	0 35	B.
		12 46·1	13 1·1	0·2	0 37	C.
1536	,, 5	22 47·9	23 4·9	0·4	1 5	A.
		22 44·4	23 4·4	0·6	1 8	B.
		22 44·4	23 4·4	0·4	1 8	C.
1537	,, 6	1 50·4	—	—	1 17	C. Also A and B.
1538	,, 9	3 46·8	4 6·8	0·2	1 13	A.
		3 46·8	4 6·3	0·4	1 48	B.
		3 41·1	4 9·8	0·7	2 19	C.
1539	,, 9	9 33·0	9 59·0	0·2	0 47	A.
		9 30·8	9 58·0	0·2	1 3	B.
		9 28·5	9 57·3	0·2	1 6	C.
1540	,, 9	18 31·9	19 3·8	2·0	1 56	A.
		18 31·2	19 5·8	2·0	2 19	B.
		18 32·8	18 57·8	2·5	1 54	C.
1541	,, 10	7 55·8	—	—	—	A, B, and C.
		10 55·8	—	—	—	
		13 7·8	—	—	—	
		15 20·4	—	—	—	
1542	,, 11	9 0·0	—	—	—	A, B, and C.
		11 35·0				
1543	,, 11	13 18·7	13 45·7	0·2	1 9	A.
		13 17·2	13 47·7	0·5	1 28	B.
		13 17·2	13 44·7	0·4	1 28	C.
1544	,, 14	8 53·7	9 16·9	1·2	1 51	A.
		8 53·0	9 17·2	1·0	2 0	B.
		8 52·7	9 29·7	0·5	2 0	C.
1545	Mar. 1	20 48·0	21 6·2	0·2	0 54	A.
		20 44·0	21 3·5	0·2	0 58	B.
		20 48·2	21 6·5	0·3	0 56·5	C.

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
1546	Mar. 2	21 21·0	21 27·0	—	0 18·3	A. Very slight tremor.
		21 1·5	21 27·0	0·2	0 57·5	B.
		21 6·0	21 22·5	0·3	0 51	C.
1548	,, 3	23 54·0	24 11·5	0·4	0 57	B. Not on A.
		23 54·5	24 14·7	0·2	0 56	C.
1549	,, 5	2 31·5	3 26·0	1·5	3 0	A.
		2 31·7	3 26·3	6·0	3 0	B.
		2 31·2	3 25·5	4·0	3 30	C.
1550	,, 13	6 50·0	7 9·0	0·5	0 56	A. Not on B and C.
1551	,, 13	18 13·5	18 41·0	0·25	1 38	A.
		18 3·75	18 35·5	0·22	1 49	B.
			18 44·0			
		18 4·0	18 43·75	0·25	1 51	C.
1552	,, 14	19 34·9	—	0·2	0 8	A.
		19 37·9	19 46·9	—	0 20	B.
1553	,, 15	9 36·0	9 48·0	—	—	A.
			10 8·0			
		9 20 ?	9 55·0	—	—	B.
		9 20 ?	9 40·0	—	—	C.
1554	,, 15	10 20·1	10 43·1	0·5	2 27	A.
		?	10 55·1	0·5	?	B.
		—	10 46·0	0·5	—	C.
1555	,, 17	1 40·1	—	0·2	0 6	A.
		1 42·1	—	0·3	0 10	B.
		7 33·1	—	0·3	0 17	
		1 40·1	—	0·3	0 12	C.
1556	,, 17	15 22·1	—	0·2	0 8	A.
		15 21·1	15 31·0	0·2	0 51	B.
		15 21·1	—	0·2	0 15	C.
1557	,, 20	21 34·1	21 42·1	0·2	0 31	A.
		21 30·1	21 40·1	0·2	0 45	B.
		21 28·1	21 38·1	0·2	0 45	C.
1558	,, 21	4 20·1	5 7·1	0·5	2 30	A.
		4 20·1	5 5·1	0·3	2 0	B and C.
			5 25·1			
1559	,, 23	11 27·1	11 40·1	0·3	—	B and C.
1560	,, 23	12 20·1	12 56·1	—	1 55	A.
			13 15·1			
			13 38·1			
		12 19·1	12 55·1	1·0	—	C.
			13 37·1			
1561	,, 24	22 37·1	22 42·1	0·5	0 23	A and B.
		23 39·1	—	—	—	C.
1562	,, 25	18 46·1	19 41·1	—	—	A and B.
		18 45·1	19 46·6	—	—	C.
1563	,, 26	23 16·3	23 52·6	12·5	4 36	A.
		23 15·3	23 51·6	12·5	4 28	B.
		23 15·8	23 50·1	7·0	4 31	C.
1564	,, 27	4 0·1	4 40·1	5·0	—	A.
		4 0·1	4 42·6	5·0	3 0	B.
		4 0·1	4 42·1	2·5	3 0	C.
1565	,, 27	19 6·1	19 52·6	0·25	1 59	B. A, time not marked.
		19 11·1	19 47·6	0·25	1 54	C.

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
1566	Mar. 29	6 42·1		—	—	B.
		6 46·6	—	—	—	C.
1567	April 1	18 54·6	—	—	0 20	A, tremor.
		18 55·1	—	—	0 23	B and C.
1568	,, 2	6 8·1	6 24·6	1·0	3 7	A.
		6 8·1	6 24·6	1·5	3 7	B.
		6 8·1	6 27·5	1·0	3 7	C.
1569	,, 4	6 35·6	7 11·6	0·5	1 35	A.
		6 33·1	7 11·1	—	2 16	B.
		6 28·0	7 4·1	—	2 16	C.
1570	,,9-10	0 4·7	0 18·2	0·2	2 31	B.
		0 16·7	0 49·7	0·75	2 19	C.
1571	,, 16	17 46·2	—	—	0 7	A.
1572	,, 19	8 19·3	—	0·2	0 40	A.
		8 18·8	—	—	—	B.
1573	,, 20	18 50·8	—	—	0 24	B.
		18 52·8	—	—	0 27	C.
1574	,, 21	15 25·3	16 5·8	0·2	1 54	B.
		15 46·8	16 6·8	0·2	1 33	C.
1575	,,22-23	0 6·0	0 43·3	0·1	2 55	A.
		0 2·3	0 43·8 2 17·3	2·5	3 44	B.
		0 2·3	0 49·8 2 14·3	2·0	3 44	C.
1576	,, 30	5 5·8	5 46·8	0·1	—	A. Extremely slight tremor, 7h.35m.
		5 5·8	5 47·3 7 35·0	0·2	—	B. A.T's present. End obscured.
		5 5·0	5 37·5 7 35·0	0·1	—	C. A.T's present. End obscured.
1577	May 3	0 58·8	1 49·9	0·75	2 42	A.
		0 58·6	1 49·5	0·75	3 2	B.
		0 58·9	1 44·8	1·0	3 2	C.
1578	,, 5	6 37·3	6 47·3	1·0	2 23	A.
			7 5·3	0·5	—	—
			7 31·8	1·0	—	—
		6 37·3	6 46·8	0·5	2 31	B.
			7 6·3	0·4	—	—
			7 32·3	0·75	—	—
			7 7·3	1·0	—	C. Tremors present.
			7 24·8	2·2	—	—
1579	,, 5	11 54·3	12 17·3	0·2	1 6	A.
		11 53·3	12 18·3	0·5	1 7	B.
		11 50·3	12 17·3	0·5	1 10	C.
1580	,, 10	7 52·4	—	—	—	B. Tremor.
		7 52·9	—	—	—	C. Tremor.
1581	,, 11	14 12·9	14 55·1	0·1	3 25	A.
		14 13·1	14 50·6	0·2	3 23	B.
		14 14·6	14 51·4	0·3	3 22	C.
1582	,, 12	21 2·4	21 22·9	0·5	0 58	A.
		20 58·4	21 15·4	0·2	1 11	B.
		20 58·4	21 15·4	0·5	1 15	C.
1583	,, 14	14 23·5	14 26·5	0·1	0 12	A.
1584	,, 14	16 22·5	—	—	—	B. Jamaica?
		16 22·0	—	—	0 18	C.

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
1585	May 15	8 45·2	9 11·7	1·2	?	A.
		8 41·0	9 12·0	4·0	4 20	B.
		8 40·0	9 12·5	5·5	4 21	C.
1586	,, 15	14 54·5	—	—	—	B.
		14 53·0	—	—	—	C.
1587	,, 17	12 36·2	12 46·5	0·5	1 25	A.
		12 29·2	12 46·2	0·6	1 37	B.
		12 36·0	12 46·7	0·7	1 25	C.
1588	,, 17	—	16 42·5	—	—	B. A.T's.
			16 45·5	—	—	C.
1589	,, 20	7 45·8	8 13·6	0·2	—	A.
			9 5·8	0·3	—	—
		7 46·1	8 11·6	0·2	3 15	B.
			8 55·1	0·5	—	—
			9 9·6	0·4	—	—
		7 46·6	8 14·3	0·1	3 14	C.
			9 8·1	0·5	—	—
1590	,, 28	9 43·1	—	—	0 17	B, tremor.
		9 45·1	—	—	0 15	C.
1591	June 3	15 51·1	16 38·1	1·0	2 10	A.
		15 50·8	16 35·0	1·0	2 10	B.
		15 50·8	16 31·3	1·2	2 10	C.
1592	,, 4	2 12·5	2 37·6	0·1	1 0	A.
		2 10·6	2 36·1	0·2	1 6	B.
		2 12·1	2 28·1	0·2	1 0	C.
1593	,, 9	3 40·8	3 55·8	—	0 46	A.
		3 24·8	3 53·8	—	1 10	B.
		3 27·8	3 49·8	—	0 58	C.
1594	,, 18	11 2·1	11 38·3	0·2	1 18	A.
		11 2·1	11 30·6	0·2	1 20	B.
		11 2·1	11 30·6	0·2	0 24	C.
1595	,, 27	14 45·0	15 24·2	0·4	1 17	A.
		14 39·2	15 20·0	0·3	2 20	B.
		14 40·0	15 13·2	0·5	2 20	C.
			15 20·5	0·5	—	

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
			1908			
		H. M.	H. M.	MM.	H. M.	
816	Jan. 13	13 39·0	13 58·5	0·9	0 42	—
817	,, 16	9 32·2	—	0·5	0 35	—
818	,, 24	23 59·4	—	0·2	0 8	Ill-defined.
819	,, 27	16 36·5	16 40·8	0·5	0 20	—
820	,, 31	5 19·7	—	0·2	0 3	—
821	Feb. 5	23 2·5	23 6·0	0·4	0 15	—
822	,, 9	9 42·7	9 57·0	0·5	0 18	—
823	,, 9	18 32·2	19 3·7	1·2	1 10	—
824	,, 11	9 7·0	—	0·2	0 20	Ill-defined.
825	,, 11	13 42·5	13 48·5	0·4	0 12	—
826	,, 14	9 14·3	9 17·5	0·6	0 42	—
827	Mar. 2	21 4·5	—	0·2	0 7	Ill-defined.
828	,, 5	2 42·2	3 28·3	1·5	1 42	—
829	,, 13	7 9·5	—	0·2	0 5	Ill-defined.
830	,, 13	18 39·5	19 8·7	0·4	0 42	—
831	,, 14	11 31·8	11 36·4	0·5	0 16	Seismic character doubtful.
832	,, 23	12 53·2	12 56·8	0·7	0 57	—
833	,, 24	22 31·0	—	0·2	0 10	Ill-defined.
834	,, 25	19 32·6	19 45·4	1·0	0 32	—
835	,, 26	23 15·0	23 55·4	12·3	3 0	—
836	,, 27	4 0·0	4 40·3	3·9	2 24	—
837	April 2	6 17·5	6 25·2	0·6	1 18	—
838	,, 19	8 15·5	—	0·2	0 40	Ill-defined.
839	,, 23	0 14·8	0 41·5	1·5	2 18	—
840	May 3	1 34·5	—	0·2	0 18	—
841	,, 5	6 45·0	7 20·7 7 31·2	1·0	1 12	—
842	,, 15	8 49·4	9 9·7	2·3	1 37	—
843	,, 17	12 40·5	12 47·3	1·0	0 23	—
844	June 27	15 9·5	15 17·6	0·4	0 15	—

February 1, clock stopped.
June 3, clock stopped.

Scale—January 23. 1mm. displacement of boom = 0″·56 of arc.
April 13. ,, ,, ,, ,, = 0″·56 ,, ,,
July 1. ,, ,, ,, ,, = 0″·55 ,, ,,

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
1048	Jan. 4	—	23 6·2	23 13·0	23 19·2	0·2	0 13	—
1049	,, 8	—	12 34·0	—	12 46·0	—	0 12	Doubtful.
1050	,, 11	3 54·0	3 59·2	4 26·7	6 28·9	4·6	2 34	—
1051	,, 14		—	16 50·0	—	—	—	Short but decided disturbance.
1052	,, 15		13 20·8	13 54·5	15 15·0	2·1	1 54	—
1053	,, 16	—	9 46·7	9 55·0	10 10·1	0·3	0 23	—
1054	,, 23	—	0 1·0	0 8·3	0 20·8	0·2	0 20	—
1055	,, 27	—	16 26·0	16 39·9	—	1·0	—	End uncertain.
1056	,, 31	—	4 41·2	4 48·4	5 8·3	—	0 27	Small.
1057	Feb. 1	23 37·0	23 55·9	0 0·7	1 5·4	1·3	1 28	—
1058	,, 5	—	22 57·8	23 5·4	23 10·2	0·3	0 42	—
1059	,, 9	—	3 56·2	4 12·0	4 40·0	0·9	0 44	—
1060	,, 9	—	9 47·3	9 56·0	10 20·7	0·6	0 33	—
1061	,, 9	—	18 37·4	19 10·5	20 10·0	1·3	1 33	—
1062	,, 11	—	13 37·2	13 43·5	14 12·0	0·3	0 35	—
1063	,, 14	—	9 5·0	9 16·7	10 18·8	1·1	1 14	—
1064	,, 21	—	19 42·0	—	20 1·0	—	0 19	Irregular disturbance.
1065	Mar. 1	—	20 57·2	21 3·8	21 29·0	—	0 32	Small.
1066	,, 4	—	0 5·8	0 9·7	0 21·2	0·3	0 15	—
1067	,, 5	—	2 34·5	3 27·2	4 24·1	1·6	1 50	—
1068	,, 12	—	19 46·0	20 3·3	20 17·8	0·2	0 32	—
1069	,, 13	—	6 53·3	7 13·2	7 34·0	—	0 41	Small.
1070	,, 13	—	18 45·7	18 52·2	19 9·6	0·2	0 24	—
1071	,, 14	—	19 41·0	19 49·0	19 58·2	—	0 17	—
1072	,, 15	—	7 57·2	8 11·8	8 34·0	0·2	0 37	—
1073	,, 15	—	9 46·2	9 53·0	10 9·8	0·2	0 24	—
1074	,, 15	—	10 32·6	11 4·5	11 51·1	0·1	1 19	—
1075	,, 17	—	1 31·0	—	2 4·0	—	0 33	Evident disturbance.
1076	,, 23	—	12 39·0	13 2·6	15 5·0	0·7	2 26	—
1077	,, 25	—	19 27·0	19 40·2	20 16·3	0·6	0 49	—
1078	,, 26	—	23 15·0	23 58·4	2 23·2	12·0	3 8	—
1079	,, 27	—	3 59·3	4 38·2	6 44·3	4·8	2 45	—
1080	,, 27	—	19 56·2	20 6·7	20 20·2	—	0 22	—
1081	April 2	—	6 6·2	6 25·0	7 34·5	1·7	1 28	—
1082	,, 4	—	—	5 35·0	—	—	—	—
1083	,, 10	—	0 53·1	1 4·0	1 28·9	—	0 36	—
1084	,, 12	—	—	19 12·0	—	—	—	—
1085	,, 16	—	16 59·6	17 3·5	17 21·3	0·2	0 22	—
1086	,, 21	—	16 1·2	16 9·4	16 26·5	0·2	0 25	—
1087	,, 23	0 19·6	0 27·7	0 32·5	1 47·2	1·0	1 28	—
1088	,, 23	—	1 59·1	2 3·6	2 34·0	0·6	0 35	—
1089	,, 26	—	18 27·2	18 37·0	18 47·7	0·4	0 20	—
1090	,, 30	—	5 34·5	5 43·2	6 6·1	—	0 32	—
1091	May 2	—	18 18·8	18 22·5	18 37·0	0·3	0 19	—
1092	,, 3	—	1 35·7	1 43·3	2 18·0	0·5	0 42	—
1093	,, 5	6 34·7	6 46·2	7 20·7	8 36·3	1·6	2 2	—
1094	,, 5	—	8 41·3	8 52·5	9 14·8	0·4	0 34	—
1095	,, 5	—	11 44·4	12 16·3	12 53·6	0·5	1 9	—
1096	,, 11	—	14 48·2	14 57·9	15 15·7	—	0 31	—
1097	,, 12	—	21 9·0	21 20·7	21 52·8	0·2	0 44	—
1098	,, 15	—	8 56·6	9 11·9	19 43·2	3·3	1 52	—
1099	,, 15	—	11 15·0	11 23·1	11 47·0	0·3	0 32	—
1100	,, 17	—	12 41·6	12 50·2	13 12·6	0·6	0 31	—
1101	,, 17	—	16 41·3	—	16 49·0	0·4	0 8	—
1102	,, 20	—	8 45·8	8 56·9	9 14·0	0·2	0 28	—
1103	,, 30	—	—	14 35·0	—	—	—	Slight disturbance.
1104	June 1	—	9 18·1	9 25·8	9 44·0	—	0 26	—
1105	,, 3	—	16 13·8	16 34·2	17 20·0	0·6	1 6	—
1106	,, 4	—	2 28·0	2 37·3	2 49·2	0·1	0 21	—
1107	,, 9	—	3 48·2	3 52·0	3 58·7	—	0 11	Small.
1108	,, 9	—	19 41·8	19 45·7	19 53·0	0·2	0 12	—
1109	,, 13	—	—	—	—	—	—	22h.-23h. disturbance, perhaps A.T.
1110	,, 18	—	11 27·2	11 31·0	11 39·0	—	0 12	—
1111	,, 23	—	11 44·6	11 50·5	11 54·6	0·2	0 9	Of doubtful origin.
1112	,, 27	—	15 10·6	15 19·7	15 41·0	0·5	0 33	—
1113	,, 28	—	17 43·9	17 48·0	17 56·2	0·3	0 12	—

Determinations of scale value were made on April 30 and May 3. The mean gives 1mm. displacement = 0″·53.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
	Jan. 8	10 31·5	—	10 59·5	12 24·0	0·15	1 52·5	—
	,, 11	4 19·5	—	4 31·0	4 41·5	0·7	0 22·0	—
	,, 15	13 50·0	—	13 58·5	14 24·0	0·15	0 34·0	Slight tremors.
	Mar. 5	3 6·5	—	—	3 55·0	—	0 48·5	Zigzag line.
	,,25-27	23 11·0	—	23 23·0	0 17·5	1·3	1 6·5	—
	,, 27	4 9·5	—	4 10·0	4 13·5	0·5	0 4·0	—
	April 19	8 18·5	—	8 19·0	8 23·5	0·3	0 5·0	—
	,, 30	5 43·0	—	5 45·0	5 48·0	0·2	0 5·0	Perhaps air tremors.
	May 3	1 33·0	—	1 57·0	2 6·0	0·4	0 33·0	—
	,, 5	6 47·5	7 18·0	7 33·0	7 57·0	0·8	1 9·5	—
	,, 5	12 14·0	—	12 18·0	12 21·5	0·5	0 7·5	—
	,, 15	8 45·0	9 7·5	9 10·0	10 21·0	2·9	1 36·0	—
	,, 17	12 42·5	12 50·0	12 51·5	13 3·0	0·7	0 20·5	—
	June 3	16 28·0	16 34·0	16 38·5	16 44·8	0·6	0 16·8	—
	,, 27	15 9·0	—	15 15·5	15 37·0	0·2	0 28·0	—

1908, April 29. 1° of footscrew = 3·2mm.
June 1. ,, = 3·7mm.
June 26. ,, = 3·6mm.

Mean = 3·5mm.

0°·546 = tilt of pillar corresponding to 1mm. at end of boom.

Register from the Coats Observatory, Paisley.
Directors, The Observatory Committee.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
405	Jan. 1	—	—	12 42·0	—	—	—	Thickening.
406	,, 5	—	—	1 13·0	—	—	—	,,
407	,, 10	0 21·5	—	0 29·2	—	0·6	—	Tremors.
408	,, 11	1 1·4	—	—	1 23·0	—	0 28·0	,,
409	,, 11	—	—	2 29·5	—	—	—	,,
410	,, 11	3 19(?)	—	4 32·0	6 40(?)	4·0	3 21·0	,,
411	,, 12	—	—	14 27·0	—	—	—	Doubtful.
412	,, 15	—	—	13 51·8	—	1·2	—	Tremors.
413	,, 16	9 9·0	—	9 27·0	—	—	—	,,
414	Feb. 1	23 34·4	—	24 10·0	24 43·0	2·2	1 9·0	—
415	,, 5	11 25·0	—	—	14 0·0	—	2 35·0	Doubtful.
416	,, 5-6	23 7·0	—	—	1 20·0	—	2 13·0	,,
417	,, 9	4 8·0	—	4 18·0	4 46·0	—	0 38·0	,, —
418	,, 9	—	—	10 0·0	—	—	—	,,
419	,, 9	18 35·0	—	19 5·0	19 40·0	1·0	1 5·0	,,
420	,, 14	9 11·5	—	9 44·0	—	0·6	—	—
421	,, 15	0 41·0	—	—	?	—	?	Tremors.
422	,, 27	—	—	3 23·0	—	—	—	Doubtful.
423	Mar. 5	3 12 (?)	—	3 29·8	?	1·2	?	Tremors.
424	,, 23	12 48·0	—	—	14 8·0	—	1 20·0	,,
425	,, 25	19 38·0	—	19 46·5	20 12·0	—	0 34·0	Thickening.
426	,,26-27	23 15·8	—	23 52·9	2 15·0	4·0	2 59·0	—
427	,, 27	4 9·5	—	4 39·4	6 40·0	0·8	2 31·0	—
428	April 2	—	—	6 28·5	—	1·5	—	Doubtful.
429	,, 19	9 19·0	—	—	10 0·0	—	0 41·0	,,
430	,, 23	—	—	0 50·0	—	1·2	—	Tremors.
431	May 5	6 55·0	—	7 29·5	8 0·0	1·2	1 5·0	—
432	,, 8	12 39·0	—	12 47·7	—	1·0	—	Jerks, possibly insect work.
433	,, 15	8 49·5	8 57·2	9 8·2	9 42·0	2·0	0 52·0	—
434	June 3	16 20·0	16 29·5	16 34·5	16 55·0	0·2	0 35·0	—

Register from Frensham Hall, Haslemere, Surrey, England.
Observer, Saml. Kevan.

No.	Date	Commencement	Max.	End	Max. Amplitude	Duration	Remarks
			1908				
		H. M.	H. M.	H. M.	MM.	H. M.	
192	Jan. 3	20 0·3	21 50·0	25 10·0	1·0	0 5	—
193	,, 7	16 1·1	16 2·5	16 5·2	0·6	0 4	Frost causing boom to swerve quite 15mm.
194	,, 15	17 44·2	17 55·2	18 19·0	1·4	0 29	—
197	,, 27	16 36·2	16 40·0	16 53·8	0·6	0 18	—
198	,, 31	5 21·0	5 22·1	5 25·0	0·5	0 5	—
199	Feb. 1	23 35·0	24 14·0	1 5·6	1·5	1 32	—
201	,, 9	18 35·0	19 4·2	19 39·7	1·8	1 4	—
202	,, 14	9 16·2	9 17·3	10 6·0	1·0	1 8	A.T's.
203	,, 19	7 52·7	7 53·2	7 57·0	0·3	0 4	—
204	,, 22	3 2·0	3 3·2	3 14·0	0·4	0 12	—
206	Mar. 2	15 27·0	15 28·0	15 37·2	0·7	0 10	—
207	,, 5	2 35·4	3 28·2	4 15·2	1·5	1 40	Borneo?
211	,, 23	12 44·1	12 56·3	13 53·5	0·9	1 9	—
212	,, 26	23 15·2	23 59·3	2 34·2	11·0	3 19	Mexico.
	,, 27	4 0·0	4 42·4	6 53·0	3·6	2 44	,,
213	April 1	6 26·1	6 28·8	6 54·3	1·5	0 28	—
214	,, 6	15 15·6	15 17·2	15 20·6	0·5	0 5	—
218	,, 23	0 11·0	0 45·8	2 44·1	2·0	2 38	—
221	May 3	1 37·0	1 55·2	2 29·7	0·7	0 53	—
	,, 5	6 40·5	7 36·7	8 5·0	1·0	1 19	—
	,, 6	10 31·8	11 30·2	11 50·0	0·9	1 18	—
223	,, 15	8 31·2	9 15·7	11 8·3	4·5	2 37	—
224	,, 17	12 42·0	12 50·4	1 0·0	1·7	0 18	A.T's frequent.
226	,, 26	18 30·3	18 32·0	18 36·0	0·7	0 5	—
228	June 3	16 28·4	16 34·2	16 51·0	1·0	0 27	—
229	,, 6	5 11·0	5 12·1	5 18·0	2·5	0 7	—
231	,, 6	23 5·0	23 10·2	23 26·0	0·8	0 21	—
233	,, 23	9 1·0	9 12·2	9 35·0	0·4	0 37	—

Boom period = 18 sec.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Duration	Max. Amplitude	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	H. M.	MM.	
826	Jan. 11	3 52·8	4 33·4	4 40·4	4 45·9	2 11·6	4·00	—
827	,, 15	13 13·9	13 51·4	13 57·4	14 12·9	2 12·8	2·40	—
828	,, 25	20 25·9	—	—	—	0 7·9	—	Small movement.
829	,, 27	16 42·3	16 44·5	16 45·3	16 50·1	0 22·5	0·60	—
830	,, 28	21 30·7	—	—	—	—	—	Tremors.
	,, 29	—	—	—	—	3 35·0	—	
832	Feb. 5	22 40·0	—	22 52·5	—	0 40·5	—	Small movement.
833	,, 6	3 31·4	—	4 0·0	—	6 41·2	—	,, ,,
				6 48·4				
834	,, 9	3 46·3	3 59·8	4 2·8	4 9·3	1 54·0	0·60	—
835	,, 9	7 8·3	9 41·3	9 45·3	—	0 14·9	0·40	Small movement.
836	,, 9	18 31·8	19 1·3	19 3·1	19 7·3	2 16·5	1·20	—
837	,, 10	3 19·5	—	—	—	1 46·4	—	Widening of line.
838	,, 14	2 59·7	9 18·9	9 20·0	9 33·5	7 47·3	0·60	—
839	,, 15	0 42·6	—	—	—	9 34·9	—	Tremors.
840	,, 19	3 25·7	—	—	—	3 40·9	—	,,
841	,, 21	3 19·4	3 40·4	—	—	5 25·9	—	,,
842	,, 25	3 17·0	3 17·0	—	—	6 54·3	—	,,
843	,, 25	0 33·6	0 33·6	—	—	9 11·9	—	,,
844	,, 25	18 37·8	18 37·8	18 39·8	18 40·0	0 7·3	0·35	Small movement.
845	,, 27	2 28·1	2 28·1	—	—	6 42·7	—	Tremors.
846	,, 29	4 25·2	4 25·2	—	—	5 23·7	—	,,
847	Mar. 1	0 0·9	—	—	—	9 38·1	—	,,
848	,, 2	16 41·8	—	16 43·3	—	0 2·2	0·30	Small movement.
849	,, 5	2 43·9	3 19·5	3 25·5	3 41·5	2 7·6	1·90	—
				3 38·5			2·00	
850	,, 6	5 45·5	—	—	—	3 41·0	—	Tremors.
851	,, 7	4 32·5	—	—	—	4 56·0	—	,,
856	,, 15	8 54·4	10 34·9	10 48·5	10 49·9	2 15·8	0·60	,, —
858	,, 19	2 21·1	—	4 32·1	—	2 15·0	—	Small movements. Tremors till 10h. 46·7m.
859	,, 21	1 26·7	4 51·6	4 58·4	4 58·8	3 49·5	0·95	—
860	,, 23	12 45·3	13 37·3	13 45·8	13 48·3	1 45·5	0·70	—
862	,, 25	19 15·6	19 33·9	19 36·8	19 37·8	0 39·6	0·75	—
833	,, 26	23 19·0	23 40·0	23 51·5	—	—	16·50	Mexico's earthquake (Chilapa)
	,, 27	—	—	0 0·5	0 39·1	5 3·0	12·00	
864	,, 27	4 10·0	4 28·0	4 32·6	4 45·6	5 35·0	8·50	
869	April 7	16 53·0	—	—	—	0 7·8	0·30	Small movement.
878	,, 19	8 22·2	—	—	—	1 16·0	—	,, ,,
879	,, 21	15 52·3	16 4·3	16 7·0	16 12·3	0 35·5	0·50	,, —
881	,, 23	0 7·9	0 33·4	0 40·9	0 48·9	2 18·0	15·00	Tremors till 8h. 18·4m.
884	May 3	1 37·0	1 41·5	1 45·0	1 47·6	0 28·5	1·20	—
885	,, 5	6 56·5	7 26·1	7 30·6	7 47·6	1 45·1	2·50	—
888	,, 12	21 19·0	—	21 26·0	—	0 27·5	0·50	Small movement.
890	,, 15	8 54·1	9 9·1	9 11·7	9 22·3	1 41·7	3·50	—
				9 17·5				
891	,, 23	7 13·8	—	7 34·3	—	1 35·9	0·50	Small movement.
894	June 20	3 29·3	—	6 12·9	—	5 36·1	1·00	,, ,,
895	,, 27	15 17·9	15 17·9	15 24·9	15 32·9	0 15·0	0·50	

1mm. 0''·25. Period = 20s.

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

No.	Date	Commencement	L.W. Commence	Max.	L.W. End	End	Duration	Amplitude	Remarks
					1908				
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	MM.	
89	Jan. 11	3 59·0	4 37·0	4 37·0	4 43·0	7 24·5	4 25·5	1·2	—
90	,, 15	13 10·5	—	13 59·0	—	14 28·0	1 17·5	1·0	Tremors for several hours.
91	,, 20	1 13·0	—	1 19·0	—	1 25·0	0 12·0	0·5	Distinct.
92	,, 25	20 9·0	—	20 23·0	—	20 53·0	0 44·0	0·5	—
93	,, 27	16 39·5	—	16 41·0	—	17 6·5	0 27·0	0·3	—
94	Feb. 2	11 39·0	12 0·0	12 11·0	12 19·0	1 26·5	1 47·5	1·5	—
95	,, 5	9 17·0	—	9 26·5	—	16 59·5	7 42·5	1·0	Tremors for several hours.
96	,, 5	22 55·0	—	23 11·5	—	2 49·0	3 51·0	1·0	—
97	,, 11	19 33·5	—	?	—	7 58·5	12 34·0	0·3	—
99	,, 19	9 15·5	—	?	—	23 1·0	—	0·5	Continued tremors.
100	March 5	2 36·0	—	3 31·5	—	5 19·0	2 43·0	0·7	—
101	,, 15	10 39·0	—	10 51·0	—	11 21·0	0 42·0	0·3	—
102	,, 21	4 35·0	—	4 48·0	—	5 22·0	0 47·0	0·3	Tremors.
103	,, 23	12 43·0	—	13 34·0	—	15 0·0	2 17·0	0·5	—
104	,, 25	19 19·0	—	19 59·0	—	20 20·0	1 1·0	0·3	—
105	,, 26	23 17·2	23 29·0	0 3·0	0 45·0	2 10·0	2 42·7	10·0	
				0 7·5	—	—	—	5·0	
				0 12·5	—	—	—	4·0	Chilapa, Mexico.
				0 21·0	—	—	—	3·0	
	,, 27	4 1·2	—	4 56·5	—	'	—	2·5	
106	April 2	6 11·2	6 12·7	6 14·2	6 23·0	6 51·5	0 40·2	2·5	—
110	,, 23	0 3·7	0 28·2	0 37·0	0 44·7	2 31·2	2 30·5	2·5	Distinct.
112	,, 29	5 22·5	—	5 23·5	—	'	—	0·5	Etna.
115	May 3	12 6·0	—	12 56·0	—	1 14·0	1 8·0	0·5	Distinct.
116	,, 5	6 35·5	7 20·0	7 29·5	7 46·0	9 35·0	2 59·5	1·5	,,
120	,, 15	8 53·5	—	9 25·0	—	11 47·0	2 53·5	1·5	,,
121	,, 17	12 34·5	—	12 39·0	—	13 25·0	0 50·5	2·0	Canea.
122	,, 30	15 20·0	—	—	—	'	—	—	—
123	,, 31	7 40·5	—	8 3·7	—	8 48·5	1 8·0	0·5	—
124	,, 31	22 18·0	—	22 45·0	—	23 5·0	0 47·0	0·5	Distinct. Yalta, Crimea.
125	June 3	4 50·0	—	?	—	8 0·0	3 10·0	—	—
126	,, 7	11 32·0	—	11 44·0	—	12 15·0	0 43·0	1·0	Distinct.
127	,, 11	3 44·7	—	3 47·0	—	3 59·0	0 14·3	0·3	—
128	,, 16	18 54·5	—	18 56·0	—	19 4·0	0 9·5	—	—
129	,, 21	19 31·5	—	?	—	1 4·2	5 22·5	—	Tremors.
130	,, 27	14 14·0	—	?	—	15 52·5	1 38·5	—	,,

Period = 20secs. 1° = 6mm. 1mm. = 0''·32.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
456	Jan. 2	5 57·0	—	—	6 23	0·1	0 26	B only.
457	,, 9	6 58·1	—	—	7 5	0·1	0 7	A.
458	,, 11	3 46·6	—	4 27·2	8 5	1·7	4 18	A.
		3 47·0	—	4 24·6	8 8	2·4	4 21	B.
459	,, 12	10 32·5	—	10 42·5	11 10	1·1	0 38	A.
		10 31·3	10 38·6	10 40·5	11 29	1·2	0 58	B.
460	,, 15	6 58·7	—	—	8 55	0·1	1 56	A.
		6 47·0	—	—	7 30	0·2	0 43	B.

Register from Helwan Observatory, Cairo, Egypt—continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
461	Jan. 15	13 10·5	—	13 57·8	16 27	0·4	3 17	A.
		13 9·6	—	13 59·1	16 29	0·3	3 19	B.
462	,, 16	1 53·0	—	—	10 27	0·1	8 34	A.
		1 38·0	—	—	?	?	?	B, end lost.
467	,, 21	23 58·8	—	—	25 11	0·2	1 12	A.
		23 37·8	—	—	25 14	0·2	1 36	B.
468	,, 25	20 0·2	—	20 15·5	21 10	0·5	1 1	A.
		20 0·2	—	—	21 5	0·2	0 56	B.
470	,, 27	16 3·5	—	—	17 42	0·2	1 38	A.
		16 1·9	—	—	17 53	0·1	1 51	B.
472	,, 29	21 2·0	—	—	23 0	0·1	1 58	A.
		21 32·4	—	—	22 53	0·1	1 21	B.
473	Feb. 1	23 31·0	—	—	26 7	0·2	2 36	A.
		23 41·0	—	2 27·5	26 14	0·7	2 23	B.
474	,, 5	13 1·0	—	—	13 16	0·1	0 15	A.
		13 1·0	—	—	13 21	0·1	0 20	B.
475	,, 5	22 54·0	—	—	24 25	0·3	1 31	A.
		22 48·0	—	—	24 13	0·2	1 30	B.
476	,, 6	1 42·0	—	—	2 54	0·2	1 12	A.
		1 51·0	—	—	2 46	0·2	0 55	B.
477	,, 9	1 48·0	—	—	11 9	0·1	9 21	A.
		3 52·0	—	—	8 25	0·1	4 33	B.
478	,, 9	18 22·8	—	18 52·5	21 9	2·5	2 46	A.
		18 25·6	18 30·7	18 52·0	20 44	1·6	2 18	B.
479	,, 10	12 29·0	—	—	13 3	0·1	0 34	A.
		12 29·0	—	—	13 8	0·1	0 39	B.
481	March 5	2 30·0	2 38·0	3 26·2	lost	1·1	?	A.
		2 30·0	2 41·8	3 21·0	lost	1·1	?	B.
482	,, 12	12 56·0	—	—	13 5	0·1	0 9	B only.
483	,, 12	19 27·0	—	—	20 20	0·2	0 53	A.
		19 32·0	—	—	20 3	0·1	0 31	B.
484	,, 13	6 37·0	—	6 59·0	7 50	0·4	1 13	A.
		6 38·0	—	—	7 44	0·2	1 6	B.
485	,, 13	18 14·0	—	19 2·0	19 58	0·2	1 44	A.
		18 51·0	—	19 0·0	19 45	0·5	0 54	B.
486	,, 14	19 28·0	—	—	19 50	0·1	0 22	A.
		19 31·0	—	—	19 58	0·1	0 27	B.
487	,, 15	9 30·0	—	—	13 10	0·2	3 40	A.
		9 31·0	—	—	13 7	0·2	3 36	B.
488	,, 17	11 20·4	11 23·6	11 24·2	11 46	0·6	0 26	A.
		11 20·4	11 24·4	11 24·8	11 45	0·3	0 25	B.
489	,, 18	17 17·0	—	—	17 46	0·2	0 29	A.
		17 11·0	—	—	17 26	0·1	0 15	B.
490	,, 19	3 31·0	—	—	6 6	0·1	2 35	A.
		4 8·0	—	—	6 9	0·1	2 1	B.
491	,, 21	3 54·0	—	4 48·0	9 4	0·4	5 10	A.
		3 53·6	—	4 56·1	9 6	0·3	5 13	B.
492	,, 23	11 10·0	—	—	11 38	0·1	0 28	A.
		11 10·0	—	—	11 40	0·1	0 30	B.
493	,, 23	12 36·8	—	13 27·2	15 39	0·5	3 2	A.
		12 42·6	—	13 27·2	15 24	0·4	2 42	B.
494	,, 23	20 9·0	—	—	21 32	0·1	1 23	A.
		20 8·0	—	—	21 38	0·1	1 30	B.
496	,, 25	19 20·0	—	—	21 42	0·1	2 22	A.
		19 22·0	—	—	21 31	0·2	2 9	B.
497	,, 26	23 18·4	23 22·8	24 20·8 24 29·2	7 49 *	2·5	8 31	A. * March 27.
		23 18·9	23 23·2	24 22·0	7 26	3·0	8 7	B.
498	,, 27	13 48·0	—	—	14 19	0·1	0 31	A.
		13 50·0	—	—	14 28	0·2	0 38	B.
499	,, 31	7 59·0	—	—	8 16	0·1	0 17	A.
		7 54·0	—	—	8 14	0·1	0 20	B.
500	,, 31	8 54·0	—	—	9 3	0·1	0 9	A.
		8 52·0	—	—	9 2	0·1	0 10	B.
5 1	,, 31	11 59·0	—	—	12 4	0·1	0 5	A.
		11 57·0	—	—	12 4	0·1	0 7	B.
502	,, 31	14 2·0	—	—	14 8	0·1	0 6	A, not B.
503	,, 31	14 57·9	—	—	15 12	0·2	0 14	A.
		14 58·1	—	—	15 7	0·2	0 9	B.
504	April 2	6 4·2	—	6 10·4	8 4	3·6	2 0	A.
		6 4·0	6 9·5	6 12·8	8 3	1·9	1 59	B.
505	,, 4	6 25·0	—	6 54·0	7 53	0·3	1 28	A.
		6 33·0	—	7 2·0	7 32	0·4	0 59	B.
506	,, 4	10 12·0	—	—	10 21	0·1	0 9	A only.

Register from Helwan Observatory, Cairo, Egypt—continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
507	April 6	6 14·0	—	—	6 26	0·1	0 12	A only.
508	,, 9	7 21·0	—	—	7 41	0·3	0 20	B only.
509	,, 10	0 12·0	—	—	2 52	0·3	2 40	B.
		0 11·6	—	0 54·7	2 39	0·5	2 22	A.
510	,, 16	17 46·0	—	—	18 36	0·1	0 50	A.
		17 47·0	—	—	18 32	0·2	0 45	B.
511	,, 18	8 59·0	—	—	9 9	0·1	0 10	A.
512	,, 19	lost *	—	—	9 6	0·1	—	A. * Between 7 and 7.30 changing spool.
513	,, 21	7 14·0	—	—	7 26	0·1	0 12	A.
		7 12·0	—	—	7 22	0·1	0 10	B.
514	,, 21	15 33·0	—	—	16 33	0·1	1 0	B only.
516	,, 25	lost *	—	—	11 51	0·1	—	A. * Changing spool before 8.40.
517	,, 26	8 6·0	—	—	8 26	0·2	0 20	A.
518	,, 26	19 9·0	—	—	19 21	0·1	0 12	A.
519	,, 26	22 50·0	—	—	23 25	0·1	0 35	A.
520	May 1	18 13·0	—	—	18 20	0·2	0 7	B.
521	,, 2	9 0·5	—	—	9 9	0·1	0 8·5	A.
522	,, 3	1 12·4	—	—	2 30	0·2	1 18	A.
		1 14·0	—	—	2 3	0·1	0 49	B.
523	,, 3	17 9·3	—	—	19 13	0·2	2 4	A.
524	,, 5	6 31·0	—	—	9 47	0·6	3 16	A. May 4, 9h., to May 7, 8h., lost on B in developing.
525	,, 5	11 25·0	11 35·7	11 56·6	13 44	0·5	2 21	A.
526	,, 11	10 2·8	—	10 19·0	10 39	0·3	0 36	A.
		10 1·4	—	10 18·8	10 59	0·8	0 58	B.
527	,, 11	13 11·0	—	—	15 28	0·2	2 17	A.
		13 11·5	—	13 13·9	15 32	0·6	2 20	B.
528	,, 15	8 45·0	—	—	11 45	0·1	3 0	A.
		8 44·0	8 55·1	8 57·9 9 44·0	12 18	0·7 0·5	3 34	B. Two maxima.
529	,, 17	12 34·9	—	—	13 27	0·3	0 53	A.
		12 35·2	12 37·9	12 42·9	13 43	0·6	1 8	B.
530	,, 20	7 55·0	8 4·0	8 46·0	10 53	0·6	2 58	A.
		8 4·1	—	—	10 27	0·2	2 26	B.
531	,, 20	16 1·9	—	—	16 22	0·2	0 20	A.
		16 0·2	16 5·0	16 5·0	16 22	0·4	0 22	B.
532	,, 27	2 39·0	—	—	3 10	0·4	0 31	A.
		2 42·0	—	—	2 58	0·3	0 16	B.
533	June 2	10 1·0	—	—	10 8	0·1	0 7	A.
		10 0·0	—	—	10 9	0·2	0 9	B.
534	,, 3	8 27·0	—	—	9 3	0·1	0 36	A.
		8 28·0	—	—	9 3	0·1	0 35	B. (Times uncertain to 1m.
535	,, 3	16 4·0	16 11·0	16 15·0	17 18	0·1	1 14	A.
		16 2·0	16 14·1	16 18·0	17 28	0·1	1 14	B.
536	,, 6	6 19·0	—	—	7 14	0·2	0 55	A.
		6 10·0	—	—	7 9	0·1	0 59	B.
537	,, 14	23 1·0	—	—	23 16	0·1	0 15	A.
538	,, 23	14 20·0	—	—	15 8	0·2	0 48	A.
		14 21·0	—	—	15 5	0·1	0 44	B.
539	,, 27	15 15·0	—	—	15 42	0·1	0 27	A.
		15 14·0	—	—	15 43	0·1	0 29	B.
540	,, 28	17 25·0	—	—	17 46	0·1	0 21	A.
		17 35·0	—	—	17 55	0·2	0 20	B.

Following records were lost:—

A—April 24, 7h.2m., to April 25, 6h.23m.

B—April 4, 9h., to April 5, 7h.
April 24, 18h., to April 25, 6h.30m.
April 27, 10h.23m. to April 28, 11h.39m.

Following record was lost on both instruments owing to the shutter cutting off the light:—

May 30, 14h., to May 31, 9h.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
302	Jan. 8	8 56·0	—	—	8 58·5	0·3	0 2·5	—
303	,, 11	3 48·0	—	4 28·5	5 0·5	0·7	1 12·5	—
304	,, 12	10 31·0	—	10 39·5	10 43·5	0·5	0 12·5	—
305	,, 15	13 48·0	—	13 50·0	14 13·5	0·2	0 25·5	—
306	,, 29	21 46·0	—	—	21 54·0	—	0 8·0	Thickening.
307	Feb. 1–2	23 41·0	—	0 12·0	0 50·0	0·6	1 8·0	—
308	,, 6	1 50·5	—	2 7·0	2 19·0	0·2	0 28·5	—
309	,, 9	18 29·5	—	18 49·5	19 32·0	1·0	1 2·5	—
310	,, 14	9 21·0	—	9 23·5	10 14·5	0·5	0 53·5	—
311	Mar. 5	2 33·0	—	3 23·0	4 10·0	0·5	1 37·0	—
312	,, 11	11 46·5	—	—	13 58·5	—	2 12·0	Thickening.
313	,, 13	18 45·0	—	18 55·0	19 2·0	0·3	0 17·0	—
314	,, 15	9 32·5	—	10 42·5	11 17·0	0·6	1 24·5	—
315	,, 17	11 24·5	—	—	11 28·0	—	0 3·5	Thickening.
316	,, 19	4 30·0	—	—	4 36·0	—	0 6·0	,,
317	,, 20	5 55·0	—	—	5 57·0	—	0 2·0	,,
318	,, 21	4 29·0	—	5 1·5	5 8·0	0·2	0 35·0	—
319	,, 23	12 42·5	—	12 52·0	13 46·5	0·6	1 4·0	—
320	,,26-27	23 22·5	—	23 33·5 24 29·0	2 9·0	2·5 3·0	2 46·5	—
321	,, 27	4 6·5	—	5 2·5	6 15·5	0·8	2 9·0	—
322	April 2	6 10·5	—	6 12·5	6 44·5	2·5	0 34·0	—
323	,, 10	0 40·5	—	0 55·5	1 6·5	0·2	0 26·0	—
324	,, 16	17 48·5	—	17 51·0	18 2·5	0·2	0 14·0	—
325	,, 19	8 17·5	—	8 29·5	8 45·5	0·2	0 28·0	—
326	,, 23	0 5·5	—	0 35·0	1 28·5	1·8	1 23·0	—
327	May 3	1 20·5	—	1 43·0	1 59·5	0·3	0 39·0	—
328	,, 5	6 35·5	—	7 22·5	8 4·5	1·0	1 29·0	—
329	,, 5	11 33·5	—	11 47·5	12 12·5	0·3	0 39·0	—
330	,, 15	8 55·0	—	9 37·5	10 19·6	0·6	1 24·0	—
331	,, 17	12 35·5	—	12 40·5	13 1·0	0·4	0 25·5	—
332	,, 20	8 4·0	—	8 35·5	8 59·0	0·6	0 55·0	—
333	June 3	16 7·0	—	16 21·5	16 54·5	0·5	0 47·5	—
334	,, 25	22 25·0	—	—	22 29·0	—	0 4·0	Thickening.
335	,, 27	15 9·0	—	—	15 18·0	—	0 9·0	,,

Period 18 seconds. 1mm. 0''·38.

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

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
			1908			
		H. M.	H. M.	MM.	H. M.	
270	Feb.14	9 2·0	9 9·3	1·8	1 28·5	I. of Mercalli's scale. Thickening of line.
276	Mar.26	23 14·4	23 23·7	6·2	1 19·1	I. idem) idem
	,, 27	3 58·2	4 8·5	0·8	1 6·3	I. idem) idem
277	April 2	6 18·0	6 34·7	1·0	0 32·0	I. idem
280	,, 23	0 8·4	—	—	0 42·0	I. of Mercalli's scale.
282	May 5	6 42·0	—	—	0 26·6	I. idem. Thickening of line.
283	,, 15	8 53·2	—	—	0 45·8	I. idem
289	June29	14 22·0	—	—	0 9·0	I. of Mercalli's scale.

Register lost—on April 14 from 15h.20m. to 18h.31m. and
on April 15 from 16h.5m. to 16h.25m. and from 21h.1m. to 21h.20m.
on June 7 from 7h.28m. to 9h.7m. and from 21h.41m. to 19h.16m.
on June 8.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
462	Jan. 11	4 3·5	4 35·0	4 41·0	5 39·0	1·8	1 35·5	—
463	,, 21	0 59·0	—	—	1 2·5	0·5	0 3·5	—
464	,, 24	—	—	23 56·0	—	—	—	Thickening. Middle time given.
465	Feb. 2	0 7·5	—	0 14·5	0 53·5	1·0	0 46·0	—
466	,, 5	—	—	22 45·0	—	—	—	Thickening.
467	,, 9	4 19·0	—	—	4 35·0	0·4	0 16·0	—
468	,, 9	19 3·0	—	—	19 30·0	0·5	0 27·0	—
469	,, 11	13 50·0	—	13 53·5	14 5·0	0·7	0 15·0	—
470	Mar. 5	2 42·0	—	3 22·5	4 50·0	0·8	2 8·0	—
471	,, 13	—	—	18 9·0	—	—	—	Thickening
472	,, 21	3 29·0	—	—	3 33·0	—	0 4·0	—
473	,, 21	4 7·5	—	4 17·5	4 25·0	1·2	0 17·5	—
474	,, 25	19 57·0	—	—	20 5·0	—	0 8·0	Vibrations.
475	,,26-27	23 23·8	0 10·5	0 13·6	2 18·0	5·0	2 54·2	Preceded by tremors.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
476	Mar. 27	4 17·0	--	—	6 17·0	---	2 0·0	Series of vibrations.
477	April 2	6 8·0	—	6 15·5	6 35·0	1·5	0 27·0	—
478	,, 4	7 2·0	—	—	7 13·0	—	0 11·0	Slight vibrations. Times approx. Watch stopped.
479	,, 8	15 30·0	—	—	19 30·0	—	4 0·0	Tremors.
480	,, 10	---	—	0 42·0	—	—	—	Slight vibrations.
481	,, 14	—	--	8 33·0	—	—	—	Change of level.
482	,,22–23	23 50·5	23 55·0	23 57·0	1 51·9	11·0	2 0·5	Amplitude measured from base line.
483	May 5	5 42·5	7 11·0	7 15·0	8 23·0	1·1	2 40·5	—
484	,, 5	11 41·0	—	—	11 55·0	—	0 14·0	Slight vibrations.
485	,, 9	—	--	20 37·0	—	—	—	Thickening.
486	,, 15	9 14·5	—	--	10 43·0	0·6	1 28·5	—
487	,, 17	13 8·0	--	---	13 21·0	0·5	0 13·0	—
488	,, 20	—	—	7 41·0	—	—	—	Change of level.
489	,, 20	---	--	8 34·0	---	—	---	Slight thickening.
490	June 3	16 37·0	—	---	17 8·0	—	0 31·0	Slight vibrations.

Jan.	1mm. boom motion	0″·39.	Boom period 20 secs.
Feb.	,,	= 0″·39.	,, 20 ,,
Mar.	,,	= 0″·34.	,, 20 ,,
April	,,	= 0″·31.	,, 22 ,,
May	,,	= 0″·32.	,, 21·5 ,,
June	,,	= 0″·31.	,, 21·5 ,,

May 6, 13h.19m., to May 7, 9h.0m., boom displaced.

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

No.	Date	Commencement	Max.	End	Max. Amplitude	Duration	Remarks
			1908				
		H. M.	H. M.	H. M.	MM.	H. M.	
6	Jan. 11	3 43·0	4 3·4	5 2·8	3·5	1 19·3	—
11	,, 12	10 27·9	10 29·5	10 42·1	1·2	0 14·2	—
15	,, 15	13 16·1	13 41·2	14 14·7	1·1	0 58·6	—
46	Feb. 9	18 16·9	18 27·8	19 13·4	4·6	0 56·5	—
79	Mar. 5	2 26·9	2 52·8	3 57·3	1·9	1 30·4	—
88	,, 13	6 32·7	6 33·5	6 47·1	0·7	0 14·4	—
99	,, 21	4 18·8	4 25·3	4 30·2	0·5	0 11·4	—
103	,, 23	12 31·6	12 57·4	13 36·5	0·8	1 4·9	—
111	,,26–27	23 24·1	0 31·5	1 47·6	2·3	2 23·5	—
112	,, 27	4 27·9	5 22·6	6 3·4	0·6	1 35·5	—
120	April 2	6 2·5	6 23·9	6 41·4	0·4	0 38·9	—
122	,, 4	6 21·0	6 31·2	6 50·5	0·4	0 26·5	—
126	,, 10	0 16·1	0 25·0	0 45·0	0·5	0 28·9	—
135	,, 16	17 45·2	17 50·3	18 11·1	0·3	0 25·9	—
137	,, 19	8 11·4	8 22·2	8 47·2	0·3	0 35·8	—
138	,, 23	0 3·8	0 16·5	1 23·1	0·6	1 19·3	—
151	May 5	6 33·0	6 58·0	7 43·4	2·3	1 10·4	—
152	,, 5	11 21·9	11 27·9	12 0·6	1·5	0 35·7	—
163	,, 15	9 20·1	9 34·6	10 18·8	2·4	0 58·7	—
165	,, 20	7 59·2	8 15·7	8 36·5	0·4	0 37·3	—
170	June 3	16 0·2	16 3·5	16 31·3	1·0	0 31·1	—
200	,, 28	17 13·5	17 14·1	17 17·5	0·6	0 4·0	—

Between January 1 and March 26, 1908, 1·0mm. of amplitude = 0″·42, and between March 27 and June 30, 1908, 1·0mm. of amplitude = 0″·41.
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, Kodaikânal, Madras.
Director, C. Michie Smith.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM. ″	H. M.	
2	Jan. 11	3 43·8	4 00·8	4 05·3	5 04	6 2·6	1 20	—
3	,, 12	—	10 32·1	10 34·1	10 42	0·2 0·1	0 10	—
1	,, 15	13 35·2	13 38·2	13 39·1	13 54	0·2 0·1	0 19	—
5	,, 25	20 22·3	---	--	20 28·5		0 06	Widening of line.
6	,, 27	16 06·2	16 13·5	16 15·5	16 27	0·6 0·5	0 21	—
7	,, 29	21 25·9	--	—	21 39	---	0 13	Widening of line.
8	Feb. 2	0 43·5	0 46·0	0 52·8	1 12	0·6 0·3	0 28	---
9	,, 6	1 35·2	1 40·1	1 44·3	2 12	0·4 0·2	0 37	—
10	,, 9	18 18·0	18 26·6	18 31·0	19 21	3·0 1·1	1 03	—
11	,, 11	14 33·1	---	--	14 40	--	0 07	Widening of line.
12	Mar. 4	/	/	/	/	/	/	—
13	,, 5	2 26·1	2 46·5	2 51·6	4 11	4·5 2·2	1 45	—
14	,, 13	6 37·9	6 34·3	6 36·4	6 54	0·4 0·2	0 26	Felt at Mandalay.
15	,, 15	10 06·1	10 13·3	10 18·4	10 40	1·4 0·7	0 34	—
16	,, 23	12 32·3	12 57·7	12 58·8	13 16	1·5 0·7	0 44	—
17	,,26–27	23 23·8	23 46·6	23 48·6	--	1·6 0·8	—	—
				0 45·3	—	2·9 1·5	—	—
				0 53·1	2 15	2·5 1·3	2 51	Chilaps.
18	,, 27	4 15·0	/	/	6 03	0·5 0·3	1 48	Sheet marked at 4h.52m.
19	April 2	6 15·1	6 24·4	6 27·4	6 51	0·6 0·3	0 36	—
20	,, 4	6 24·6	6 31·0	6 38·2	6 55	0·6 0·3	0 30	Assam?
21	,, 10	0 06·1	0 21·3	0 28·7	0 51	0·6 0·3	0 45	—
22	,, 16	No P.T's	17 52·2	17 58·7	18 01	0·5 0·2	0 09	—
23	,, 19	8 15·5	—	—	8 49	—	0 33	Widening of line.
24	,, 23	0 02·6	0 13·1	0 15·2	1 40	4·2 2·0	1 37	—
25	May 5	6 33·0	6 51·7	6 52·7	8 04	3·6 1·8	1 31	—
26	,, 5	No P.T's	11 22·3	11 23·3	12 03	3·0 1·5	0 41	—
27	,, 6	11 44·8	---	—	12 09	—	0 24	Widening of line.
28	,, 11	13 07·8	13 10·3	13 11·9	13 27	0·4 0·2	0 19	—
29	,, 15	8 56·7	9 27·4	9 32·5	10 56	1·1 0·5	1 59	—
30	,, 20	7 51·4	7 58·5	8 00·5	---	0·8 0·4	---	—
				08·6	8 52	1·0 0·5	1 01	—
31	June 3	15 59·7	16 07·8	16 08·5	16 46	2·4 1·2	0 46	—
32	,, 30	2 27·4	2 31·0	2 32·2	2 51	0·5 0·2	0 24	—

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

No.	Date	Commencement	L.W. Commence	Max.	End	Half Max. Amplitude	Duration	Remarks
				1907				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
1301	Jan. 1	0 48·0	--	--	> 2 26	--	> 1 38	—
1302	,, 2	12 07·8	12 20·3	13 00·0	15 43	3·0	3 35	—
1303	,, 4	5 28·4	5 35·0	5 49·4	6 35	>17·0	1 07	—
1304	,, 4	6 35·6	6 39·8	6 43·2	9 23	9·4	2 47	—
1305	,, 4	10 19·0	10 22·1	10 23·8	10 52	0·6	0 33	—
1306	,, 4	16 54·9	—	16 55·5	17 11	0·3	0 16	—
1307	,, 5	23 56·7	24 09·1	24 11·3	24 46	0·8	0 49	—
1308	,, 6	19 30·8	—	.	19 56	—	0 25	—
1309	,, 7	14 40·2	—	...	15 36	.	0 56	—
1310	,, 8	6 06·3	6 41·5	7 17·5	8 06	0·7	2 00	—
1311	,, 10	5 48·5	5 49·5	5 50·2	6 14	1·3	0 25	—
1312	,, 12	8 05·3	8 09·3	8 22·9	9 06	0·8	1 01	—
1313	,, 12	19 19·8	19 20·8	19 21·1	19 31	0·4	0 11	—
1314	,, 13	15 14·6	—	—	15 25	—	0 10	—
1315	,, 14	21 25·1	21 36·0	21 46·7	22 32	1·07	---	—

Register from Irkutsk Magnetical and Meteorological Observatory—continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Half Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
1316	Jan. 19	13 17·9	13 18·4	13 22·2	14 13	1·5	0 55	—
1317	,, 19	22 36·3	—	22 37·3	22 47	0·2	0 11	—
1318	,, 21	12 20·9	—	—	12 41	—	0 11	—
1320	,, 22	13 40·5	13 41·3	13 41·6	13 57	0·5	0 16	—
1321	,, 23	17 09·2	—	—	17 25	—	0 16	—
1322	Feb. 3	6 36·4	—	6 45·8	7 15	0·3	0 39	—
1323	,, 3	19 46·8	19 56·1	19 57·3	21 17	0·6	1 30	—
1324	,, 16	13 39·1	—	—	13 49	—	0 10	—
1325	,, 16	21 37·2	—	22 09·5	22 42	0·2	1 05	—
1326	,, 24	8 21·5	—	8 32·3	9 08	0·3	0 46	—
1327	Mar. 12	20 56·9	—	20 57·0	21 02	0·2	0 05	—
1328	,, 12	22 18·1	—	22 18·5	22 24	0·2	0 06	—
1329	,, 17	12 06·5	12 06·6	12 06·8	12 17	0·4	0 10	—
1330	,, 19	22 32·8	—	22 33·8	22 53	0·3	0 20	—
1331	,, 20	11 28·7	11 32·2	11 32·8	11 46	0·5	0 17	—
1332	,, 27	1 43·1	—	1 49·3	2 07	0·3	0 24	—
1334	,, 29	20 59·7	21 00·9	21 01·0	22 19	0·8	1 19	—
1336	,, 31	15 17·9	—	15 19·5	15 54	0·2	0 36	—
1337	,, 31	22 15·9	22 23·3	22 41·5	23 59	0·7	1 44	—
1338	April 13	18 07·7	—	18 08·1	18 28	0·2	0 20	—
1339	,, 15	6 26·3	6 33·9	7 18·1	10 05	7·0	3 39	—
1341	,, 18	21 07·9	21 14·2	21 27·8	23 17	6·9	2 09	—
1342	,, 19	0 01·1	0 06·5	0 18·5	2 08	4·0	2 07	—
1343	,, 23	1 13·2	—	—	1 25	—	0 12	—
1344	,, 24	23 52·0	—	24 06·9	24 20	0·2	0 28	—
1345	,, 26	19 35·3	19 39·3	19 40·2	20 04	0·4	0 29	—
1346	May 3	20 52·0	20 55·5	20 59·5	21 18	0·3	0 26	—
1347	,, 4	6 07·0	6 10·9	6 12·4	7 33	0·4	1 26	—
1348	,, 4	8 49·2	8 55·1	9 00·3	9 48	1·0	0 59	—
1349	,, 6	19 19·8	—	—	19 35	—	0 15	—
1350	,, 7	5 05·1	5 06·8	5 07·8	5 29	0·4	0 24	—
1351	,, 7	6 11·8	—	6 14·5	6 28	0·2	0 16	—
1352	,, 7	10 27·5	10 30·0	10 36·9	11 47	4·0	1 19	—
1353	,, 9	22 48·7	22 49·2	22 49·3	22 53	13·3	0 04	—
1354	,, 10	6 58·0	—	7 00·4	7 15	0·3	0 17	—
1356	,, 13	21 20·5	—	21 48·7	22 41	0·5	1 20	—
1357	,, 20	8 07·4	8 11·6	8 28·2	8 44	0·4	0 37	—
1358	,, 22	23 04·7	23 05·6	23 12·7	23 46	1·2	0 41	—
1360	,, 25	12 07·1	12 16·8	12 29·7	13 18	1·0	1 11	—
1361	,, 25	14 07·3	14 08·9	14 15·4	15 22	2·4	1 15	—
1362	,, 25	16 04·3	16 11·3	16 11·9	16 36	0·7	0 32	—
1363	,, 31	13 00·6	13 10·5	13 45·9	14 32	0·6	1 31	—
1364	June 1	9 07·9	—	9 45·8	12 04	0·6	2 56	—
1365	,, 1	23 09·6	23 10·3	23 10·6	23 26	0·6	0 17	—
1366	,, 4	22 14·2	—	22 15·7	22 28	0·3	0 14	—
1367	,, 5	3 56·4	4 25·7	4 44·0	5 57	0·6	2 07	—
1368	,, 6	17 49·7	—	17 55·7	18 07	0·4	0 17	—
1370	,, 11	3 30·3	—	3 32·4	3 55	0·2	0 25	—
1371	,, 13	9 45·4	9 55·2	11 03·7	11 39	0·8	1 54	—
1373	,, 23	22 02·1	—	22 04·9	22 13	0·3	0 11	—
1374	,, 24	? 0 48·9	? 0 56·6	0 59·7	1 16	0·4	? 0 27	—
1375	,, 24	3 50·3	4 01·9	4 02·5	4 31	0·3	0 41	—
1376	,, 24	16 42·8	—	16 51·7	17 14	0·2	0 31	—
1377	,, 25	2 59·3	3 06·6	3 09·3	3 53	1·2	0 54	—
1378	,, 25	18 01·9	18 09·7	18 20·7	19 40	1·2	1 38	—
1379	,, 26	5 11·7	5 17·8	5 18·7	5 54	0·3	0 42	—
1380	,, 26	17 30·6	17 37·8	17 42·3	18 19	1·2	0 48	—
1382	,, 27	?22 45·7	?22 59·4	?23 15·5	?24 00	0·5	? 1 14	—
1383	July 1	13 32·8	13 39·1	14 21·8	15 54	0·7	2 21	—
1385	,, 4	0 41·3	0 50·0	0 58·2	1 18	0·4	0 37	—
1386	,, 4	9 36·1	9 43·6	9 46·8	10 06	0·4	0 30	—
1388	,, 9	19 03·5	19 09·3	19 22·3	20 55	2·8	1 51	—
1390	,, 12	11 06·9	—	—	11 32	—	0 25	—
1391	,, 12	17 37·2	—	17 44·0	18 13	0·2	0 36	—
1392	,, 14	17 23·2	—	—	18 11	—	0 48	—
1396	,, 27	12 44·8	—	12 55·1	13 15	0·3	0 30	—
1397	,, 29	1 09·0	1 23·7	1 25·1	> 2 15	0·3	> 1 06	—
1400	Aug. 5	7 02·5	7 20·9	7 22·0	8 52	0·3	1 49	—
1401	,, 9	20 20·6	—	20 35·5	21 28	0·3	1 07	—
1406	Sept. 2	?16 07·2	?16 10·0	?16 29·1	?19 31	3·3	? 3 24	—
1408	,, 15	17 53·7	—	18 02·2	18 28	0·6	0 34	—
1409	,, 15	?19 23·6	—	?19 32·5	?19 49	0·4	? 0 25	—
1410	,, 22	12 20·6	12 30·4	12 32·8	12 55	0·8	0 34	—

Register from Irkutsk Magnetical and Meteorological Observatory– continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Half Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
1413	Oct. 4	10 52·8	10 59·5	11 08·7	11 46	1·2	0 53	—
1414	,, 4	20 45·5	—	20 50·7	21 04	0·3	0 18	—
1415	,, 10	22 01·2	—	—	22 22	—	0 18	—
1416	,, 10	14 43·4	14 50·5	14 51·0	15 51	0·4	1 08	—
1418	,, 16	14 22·3	14 42·0	14 58·8	16 32	1·0	2 10	—
1420	,, 21	4 29·3	4 33·5	4 40·8	—	>17·0	—	—
1423	,, 23	21 05·4	—	21 07·9	21 21	0·3	0 16	—
1424	,, 27	5 27·6	5 33·4	5 34·2	5 50	3·5	0 22	—
1425	Nov. 2	22 28·5	—	22 29·7	22 40	0·6	0 11	—
1426	,, 3	20 13·3	—	—	21 01	—	0 50	—
1427	,, 11	13 35·0	—	13 43·6	14 05	0·3	0 30	—
1433	,, 16	22 24·8	22 28·2	22 31·2	23 13	0·8	0 48	—
1437	,, 21	17 36·2	—	17 37·5	17 49	0·3	0 13	—
1438	,, 21	20 22·7	20 27·2	20 35·4	21 59	3·0	1 36	—
1439	,, 22	0 25·0	—	—	0 48	—	0 23	—
1440	,, 22	6 27·5	—	6 39·4	6 56	0·4	0 28	—
1441	,, 24	14 08·0	14 12·3	14 24·9	15 08	0·9	1 00	—
1442	,, 27	19 04·8	—	19 05·7	19 10	0·2	0 05	—
1443	Dec. 2	14 03·9	14 10·3	14 11·5	14 30	0·6	0 26	—
1444	,, 2	17 51·2	—	17 53·8	18 11	0·5	0 20	—
1446	,, 5	13 04·5	13 08·1	13 10·5	13 40	0·7	0 35	—
1449	,, 15	17 54·3	18 01·0	18 08·1	19 02	1·0	1 08	—
1451	,, 17	23 46·1	—	—	23 59	—	0 13	—
1452	,, 23	1 19·6	1 29·4	1 33·2	> 2 01	1·6	0 41	—
1456	,, 30	5 45·6	5 55·6	6 52·4	7 54	0·7	2 08	—

August 13 to August 29, the seismograph not in order.

Register from the Royal Magnetical and Meteorological Observatory, Batavia. Director, W. Van Bemmelen.

No.	Date	Commencement	L.W. Commence	Max. Amplitude Double	Duration	Remarks
			1908			
		H. M.	H. M.	MM.	H. M.	
1085a	Jan. 5	2 2·7	—	0·4	0 5	?
1085b	,, 5	2 17·4	—	0·8	0 13	Legaspi (S.E. of Luzon), Philippines.
1086	,, 10	0 55·3	—	0·4	0 5	Thickening.
1087	,, 11	3 41·0	3 46·2	5·6	1 5	Surigao (N.E. of Mindanao), Phillippines.
1088	,, 13	9 45·4	—	0·9	0 14	—
1089	,, 13	17 42·4	—	0·3	0 1	Thickening.
1090	,, 15	13 13·9	—	0·8	0 43	—
1091	,, 26	0 34·7	—	0·4	0 5	Thickening.
1092	,, 27	5 50·5	—	0·3	0 2	,,
1093	,, 27	15 56·3	16 8·3	1·0	0 42	—
1094	Feb. 3	7 32·9	—	2·9	0 11	Middle Java
1095	,, 2	14 29·7	—	0·3	0 8	Thickening.
1096	,, 6	1 30·8	—	6·6	0 50	Sudden beginning. Southern and middle Sumatra.
1097	,, 9	±18 2·5	±18 32·5	3·8	1 7	Hour mark missing.
1098	,, 10	∓ 2 18·0	—	0·5	0 3	Hour mark missing. Thickening. S.W. Luzon.
1099	,, 14	9 36·7	—	0·6	0 24	?
1100	,, 23	10 30·3	—	0·8	0 4	—
1101	Mar. 5	2 22·2	—	33·5	2 16	Sudden beginning; felt at Buitenzorg, Java.
1102	,, 8	± 7 41·2	—	0·3	0 6	?
1103	,, 9	8 58·1	—	1·3	0 8	—
1104	,, 13	6 35·2	6 36·2	3·0	0 31	—
1105	,, 15	9 21·4	9 30·9	0·9	1 5	—
1106	,, 15	11 17·2	—	0·5	0 13	—

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

No.	Date	Commencement	L.W. Commence	Max. Amplitude Double	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
1107	Mar. 19	3 20·2	—	0·6	0 9	?
1108	,, 20	9 21·7	—	0·7	0 25	?
1109	,, 20	20 4·2	—	0·5	0 16	Thickening.
1110	,, 21	4 4·7	4 10·2	1·0	0 23	—
1111	,, 23	12 28·0	—	6·0	1 27	—
1112	,, 23	14 31·0	—	0·8	0 11	—
1113	,, 25	19 25·2	—	0·4	0 18	Thickening.
1114	,, 26	23 23·9	—	1·7	2 13	Chilapa, Mexico, March 27 changing sheet, 0h. 28m. to 0h.33m. March 27, commence earthquake between 4h. and 6h.; continuous air tremors.
1115	,, 27	18 53·3	—	2·0	0 35	—
1116	April 4	6 25·3	6 35·1	1·0	0 41	—
1117	,, 9	23 59·4	—	5·7	> 0 37	End lost by changing film.
1118	,, 11	16 23·9	—	0·8	0 13	—
1119	,, 17	3 22·4	—	0·5	0 4	? Thickening; continuous tremors.
1120	,, 19	8 8·5	8 16·9	1·3	0 30	—
1121	,, 22	23 55·6	—	—	—	Shifting time; continuous air tremors.
	,, 23	—	0 3·8	at least 2	± 1 20	—
1122	,, 25	22 9·0	—	1·0	0 10	—
1123	May 3	1 11·7	—	0·5	0 33	—
1124	,, 3	19 29·2	—	0·6	0 5	Thickening.
1125	,, 5	6 20·4	—	>31·0	1 24	Felt all over the residence of Menado, Celebes.
1126	,, 5	11 25·5	—	1·0	0 52	Isabela (Basilan), Philippines.
1127	,, 6	11 31·1	—	0·7	0 23	Leyte and N.E. Mindanao, Philippines.
1128	,, 8	17 14·9	—	0·5	0 6	Thickening.
1129	,, 9	22 27·4	—	0·5	0 7	Thickening.
1130	,, 11	13 50·1	—	4·8	0 32	—
1131	,, 14	5 29·4	—	0·6	0 22	? Thickenings.
1132	,, 14	13 24·1	—	1·0	0 29	Thickenings. Yolo and Western Mindanao, Philippines.
1133	,, 15	± 8 57·0	—	1·4	± 1 18	—
1134a	,, 18	20 10·2	—	0·6	0 4	—
b	,, 18	20 20·2	—	2·2	0 14	—
c	,, 18	20 46·2	—	1·8	0 8	—
1135	,, 20	7 42·2	—	22·5	1 28	—
1136	June 2	22 7·2	—	0·9	0 42	—
1137	,, 3	16 19·1	—	1·1	0 24	—
1138	,, 4	1 33·0	—	0·9	0 35	—
1139	,, 12	16 20·7	—	0·9	0 6	Thickening.
1140	,, 12	17 50·7	—	0·8	0 4	,,
1141	,, 17	17 58·7	—	0·5	0 3	,,
1142	,, 24	± 3 5·6	—	0·6	0 3	,,
1143	,, 27	14 37·9	—	0·5	0 1	,,
1144	,, 30	2 17·1	2 18·3	11·0	1 9	—

No record—January 23, 0h.29m. to 0h.53m.
February 17, 1h.43m. to 6h.23m.
February 21, 5h.31m. to 6h.8m.
March 25, 0h.18m. to 6h.18m.
May 1, 6h.2m. to 20h.30m.
May 16, 2h.43m. to 5h.47m.
May 18, 2h.2m. to 5h.47m.
May 25, 6h.21m. to 26, 0h.33m.
May 26, 4h.5m. to 4h.41m.
May 26, 5h.17m. to 27, 0h.49m.
May 27, 1h.57m. to 4h.53m.
May 27, 23h.10m. to 29, 0h.57m.
May 29, 4h.22m. to 4h.50m.
June 5, 0h.24m. to 12, 0h.47m. (no more paper).
June 18, 23h.58m. to 19, 5h.13m. (sheet too broad; paper-motor stopped).

1908	January 1 to 7,	1mm.	0″·55.
	January 8 to February 29	,,	0″·50.
	March 1 to 24,	,,	0″·47.
	March 25 to 31,	,,	0″·45.
	April 1 to 20,	,,	0″·40.
	April 21 to 30,	,,	0″·52.
	May 1 to 16,	,,	0″·41.
	May 17 to 25,	,,	0″·49.
	May 29 to June 18,	,,	0″·41.
	June 19 to 30,	,,	0″·55.

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
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
417	Jan. 20	none	13 58	13 58	13 59	0·5	0 1	—
418	,, 20	none	15 34	15 34	15 35	0·5	0 1	—
419	,, 20	none	17 47	17 47	17 48	0·5	0 1	—
420	,, 23	none	18 38	18 38	18 39	0·5	0 1	—
421	,, 24	23 21	23 27	23 28	23 31	1·0	0 10	—
422	Feb. 1	23 18	23 23	23 34	23 53	1·0	0 35	Followed by tremors for 30 mins.
423	,, 18	none	1 34	1 34	1 37	0·5	0 3	Shock felt in Trinidad; slight, but accompanied by a very distinct murmur.
424	Mar. 25	none	19 8	19 20	19 34	T. of L.	0 26	—
425	,, 27	23 30	23 32	23 42	0 46	5·0	1 15	Followed by tremors for 30 mins.
426	April 22	17 16	17 20	17 42	17 47	0·5	0 31	—
427	,, 22	none	19 32	19 32	19 38	0·5	0 6	—
428	,, 28	none	21 15	21 21	21 35	1·0	0 20	—
429	,, 29	none	21 34	21 34	21 36	1·0	0 2	—
430	May 5	3 41	5 58	6 11	6 17	0·5	2 35	Followed by slight tremors for about 4 hours.
431	,, 6	none	11 26	11 26	11 29	1·5	0 3	—
432	,, 6	15 38	15 41	16 41	17 53	1·0	2 15	A series of slight shocks.
433	,, 9	none	19 34	19 35	19 39	0·5	0 5	—
434	,, 31	none	6 10	6 29	6 43	2·5	0 33	Merged in tremors for about 2 hours.

Register from Geographical Society, Lima.
Observer, H. Hope Jones.

Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
			1908		
	H. M.	H. M.	MM.	H. M.	
Jan. 4	22 41	22 41	Thickening		—
,, 7	17 01	17 01	0·1	0 05	—
,, 9	4 23	4 24	Thickening	0 03	—
,, 10	14 45	14 45	,,	0 01	—
,, 11	2 37	2 37	,,	0 01	—
,, 11	17 26	17 35	0·3	0 28	—
,, 11	23 34	23 34	0·8	0 03	—
,, 15	12 21	12 21	1·0	0 03	—
,, 15	14 38	14 39	Thickening	0 09	—
,, 21	1 16	1 21	0·4	0 10	—
,, 23	9 50	9 50	0·5	—	Local, No. 3, R.-F.
,, 23	17 16	17 16	0·2	0 01	—

Register from Geographical Society, Lima– continued.

Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
	H. M.	H. M.	MM.	H. M.	
Jan. 24	23 10	23 12	4·5	0 35	No preliminary tremors marked.
,, 25	5 08	5 08	Thickening	0 02	—
,, 25	10 01	10 02	0·2	0 03	—
,, 28	10 26	10 27	0·5	0 03	—
,, 29	8 28	—	—	—	See note at end of register.
,, 30	3 21	3 22	0·2	0 03	—
,, 31	9 00	Tremor storm till 14h.		5 00	—
Feb. 1	23 31	23 40	1·1	0 38	—
,, 2	15 38	—	Thickening	0 07	—
,, 5	29 21	9 21	0·5	—	Local. No. 3, R.-F.
,, 8	0 03	—	0·25	—	Change of level.
,, 9	3 33	—	0·25	0 19	—
,, 9	9 16	—	0·3	0 16	—
,, 9	21 28	21 28	0·2	—	Local.
,, 11	13 08	13 16	2·0	0 30	—
,, 14	8 51	9 01	4·75	0 43	No. 6 in Piura; No. 3 in Lima.
,, 15	1 03	1 04	Thickening	0 04	—
,, 19	12 00	—	—	3 00	Tremor storm.
,, 23	11 00	—	—	3 00	,, ,,
Mar. 1	15 20	—	Thickening	0 04	—
,, 5	3 01	3 02	0·5	1 44	—
,, 5	19 57	19 58	0·5	0 01	—
,, 12	7 22	7 22	Thickening	—	—
,, 14	5 58	5 59	,,	0 07	—
,, 15	10 13	10 16	0·5	0 05	—
,, 18	16 32	16 33	Thickening	0 02	—
,, 23	13 58	13 59	0·5	0 15	—
,, 25	7 07	7 13	1·0	0 29	—
,, 26	23 13	23 27	7·0	2 25	Greater than width of paper.
,, 27	4 04	4 11	1·5	0 55	—
,, 28	22 50	22 50	0·1	0 01	—
,, 30	16 38	16 38	0·4	0 01	—
April 9	13 19	13 20	Thickening	0 04	—
,, 13	—	—	—	—	Record lost.
,, 16	22 15	22 15	—	0 01	—
,, 17	11 01	11 01	0·5	0 05	Local, No. 3, R.-F.
,, 21	19 13	19 13	0·1	0 01	—
,, 23	0 19	0 26	0·5	1 14	—
,, 25	15 13	15 14	0·5	0 05	—
,, 25	22 48	—	Thickening	—	—
,, 27	5 53	5 54	0·25	0 10	—
,, 27	21 23	—	—	—	Sudden change of level.
,, 28	18 23	18 23	1·0	0 00	Local. No. 4, R.-F.
,, 30	4 58	4 59	0·4	0 15	—
May 3	1 08	—	Thickening	0 12	—
,, 5	6 53	6 59	0·4	1 40	—
,, 9	9 21	9 27	0·5	0 12	—
,, 15	8 55	8 55	0·5	1 20	—
,, 15	21 56	21 56	0·4	0 02	—
,, 20	0 59	0 59	0·6	0 01	—
,, 20	9 01	9 03	0·2	0 05	—
,, 29	12 03	12 03	0·1	0 02	—
June 2	5 11	5 12	0·1	0 02	—
,, 3	7 30	7 30	0·5	0 00	—

Register from Geographical Society, Lima – continued.

Date	Commencement.	Max.	Max. Amplitude	Duration	Remarks
	H. M.	H. M.	MM.	H. M.	
June 8	21 33	21 33	0·1	0 00	—
,, 13	...	—	...	...	Insect interfered with record.
,, 19	3 06	3 06	3·06	0 01	—
,, 28	6 03	6 03	6·03	0 00	—

Boom commenced moving to E. In 10 minutes moved 0·3 mm.; in 2 m. moved 1 mm.; in 1 m. moved 2 mm.; in 5 m. moved 0·5 mm. Total movement 3·8 mm.

1° turn of calibrating screw = 4mm. deflection.
From July 25, 75° standard time will be kept. There will be a daily signal from Washington.

Register from Baltimore, Md., U.S.A.
Director, Prof. Harry Fielding Reid.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Period of Pendulum	Remarks
			1907					
		H. M.	H. M.	H. M.	H. M.	MM.	secs.	
40	July 20	14 44·5	—	15 06·0	—	—	0·3	—
41	Aug. 8	9 22·1	—	9 22·5	9 26·5	—	0·6	Starts rather suddenly.
42	Sept. 2	16 15·0	16 40·0	16 47·2	19 30±	—	—	—
43	Oct. 16	14 01·8	14 13·5	14 14·3	15 40±	—	20·0	Times taken from Bosch-Omori. No time-marks on Milne.
44	,, 17	11 31·8	11 38·3	11 39·3	11 55±	—	2·5	Times taken from Bosch-Omori. No time-marks on Milne.
45	Nov. 21	21 30·5	—	21 36·0	21 50±	15·0	0·6	1mm. deflection corresponds to 0·69″.
			1908					
1	Feb. 1	23 25·0	23 32·0	23 34·0	24 35	—	2·5	—
2	,, 8	0 39·5	—	0 48·0	0 55	—	0·5	Swelling.
3	,, 14	11 53·0	—	11 54·0	12 0	—	0·5	—
4	Mar. 26	6 09·0	6 21·8	6 24·8	—	10·5	10·5	—
				25·8				—
			11 07·1	11 07·9	—	—	2·8	—
5	,, 26	10 53·5	11 12·1	11 10·9	12 05	—	2·9	—
9	April 30	5 09·5	—	5 15·0	5 32	—	0·5	Swelling.
11	May 15	8 42·5	8 55·7	8 56·3	10 30	—	—	—

Commencement of P_2 for Nos. 42, 43, 44, 4, 5 and 11 are respectively 16h.20m., 14h.7·9m., 11h.35m., 6h.14·5m., 10h.58·5m. and 4h.47m.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
782	Jan. 11	4 31·0	—	—	5 14·0	0·2	0 40·0	—
783	,, 15	13 52·5	—	—	—	0·05	—	—
784	Feb. 1	23 26·3	—	23 36·5	24 38·0	2·1	1 11·7	—
785	,, 9	3 39·2	—	3 45·8	4 18·9	2·0	0 38·8	—
786	,, 9	9 22·4	—	—	9 47·7	0·3	0 25·3	—
787	,, 9	19 15·3	—	—	19 36·3	0·1	0 21·0	—
788	,, 11	13 15·7	—	—	13 30·5	0·2	0 14·8	Series of small shakes.
789	,, 14	9 8·1	—	—	9 47·6	0·2	0 39·5	—
790	,, 14	11 51·1	—	—	11 53·1	0·15	0 2·0	—
791	Mar. 1	20 42·6	—	—	20 48·4	0·2	0 5·8	—
792	,, 3	23 50·6	—	—	23 51·6	0·05	0 1·0	—
793	,, 5	2 46·2	—	—	4 18·2	0·2	1 32·0	Prolonged thickening.
794	,, 5	14 49·1	—	—	14 51·2	0·1	0 2·1	—
795	April 23	0 14·8	—	—	2 30·0	1·15	2 15·2	Extended thickenings.
796	,, 26	17 38·9	—	—	18 18·0	0·05	0 39·1	—
797	,, 30	5 6·5	—	—	5 27·0	0·4	0 20·5	Very small, but well defined.
798	May 5	6 40·3	—	—	7 3·3	0·05	0 23·0	—
799	,, 15	8 46·1	8 53·3	8 54·2	9 42·1	5·7	0 56·0	Medium double quake.
800	,, 17	21 53·7	—	—	22 8·7	0·1	0 15·0	—
801	June 18	11 0·2	—	—	11 6·2	0·05	0 5·0	—

On March 25 instrument dismounted preparatory to moving it into another building; not set in operation again until March 29.

Period of vibration, 14·8 seconds. Angular value, 0°·66.
On and after April 10, vibration, 14·8 seconds. Angular value, 0°·64.

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
787	Jan. 11	4 58·0	—	—	6 22·0	0·3	1 24·0	Thickening and mixed up with air c.
788	,, 15	13 17·5	—	—	14 7·5	0·15	0 50·0	—
789	Feb. 1	23 31·0	—	23 57·6	24 32·0	1·0	1 1·0	—
790	,, 3	3 59·3	—	—	4 30·3	0·2	0 31·0	—
791	,, 9	9 42·7	—	—	9 50·0	0·05	0 7·3	—
792	,, 9	19 6·0	—	—	19 30·0	0·2	0 24·0	—
793	,, 11	13 0·0	—	—	—	—	—	Impossible to measure. Too small and undefined.
794	,, 14	9 11·8	—	—	9 56·8	0·15	0 45·0	Thickenings at intervals.
795	,, 14	11 28·6	—	—	11 43·6	0·15	0 15·0	—
796	Mar. 1	20 25·0	—	—	23 41·0	0·8	0 16·0	—
797	,, 3	23 30·2	—	—	23 38·7	0·4	0 8·5	—
798	,, 5	2 36·0	—	—	4 0·0	0·8	1 24·0	Well marked.
799	,, 5	14 29·6	—	—	14 39·6	0·7	0 10·0	,, ,,

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
800	Mar. 23	12 52·4	—	—	13 14·4	0·05	0 22·0	—
801	,, 25	19 15·5	—	—	20 2·0	0·2	0 46·5	—
802	,, 26	23 10·9	23 21·9	23 25·9	2 19·9	over 17	3 9·0	Very large, exceeded scale; Mexican earthquake.
803	,, 27	3 54·9	4 7·1	4 11·9	6 5·9	over 17	2 11·0	Very large, exceeded scale; Mexican earthquake.
804	,, 27	8 56·7	—	—	9 5·0	0·2	0 8·3	—
805	,, 28	10 33·4	—	—	10 40·0	0·3	0 6·6	—
806	,, 29	7 49·4	—	—	7 57·4	0·2	0 8·0	—
807	,, 31	13 2·3	—	—	13 10·6	0·6	0 8·3	—
808	April 23	0 22·7	—	—	0 32·7	0·05	0 10·0	—
809	,, 30	5 24·4	—	—	5 44·4	0·05	0 20·0	—
810	May 5	6 41·2	—	—	7 35·2	0·2	0 54·0	—
811	,, 7	3 19·5	—	—	3 30·5	0·2	0 11·0	—
812	,, 15	8 35·3	8 40·3	8 42·8	10 38·3	8·0	2 3·0	Large double quake.
813	,, 19	23 51·2	—	—	23 59·7	0·05	0 8·5	—
814	June 14	5 56·7	—	—	6 5·0	0·25	0 8·3	—
815	,, 18	11 1·3	—	11 2·5	11 13·5	2·9	0 12·2	—

April 9th, tremor felt in Victoria at 6.55 (Victoria time). Not recorded.

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

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

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Remarks
				1908			
		H. M.	H. M.	H. M.	H. M.	MM.	
	Jan. 4	21 31·0	Small	tremors	23 40·0	—	—
	,, 11	1 41·0	Small	tremors	2 40·0	—	—
1	,, 11	3 52·7	3 56·4	4 29·0	5 2·7	1·0	—
2	,, 19	7 21·6	7 23·5	7 27·0	7 54·8	1·5	—
3	,, 29	20 34·8	20 54·3	20 57·8	21 22·3	0·5	—
4	Feb. 2	1 40·0	Slight	tremor	2 18·0	—	—
	,, 2	14 30·0	14 33·0	14 37·0	14 57·0	1·0	—
				14 42·0	—	1·0	
	,, 13	17 13·8	Small	tremors	17 24·0	—	—
5	,, 20	15 50·2	15 52·2	15 55·2	16 7·2	1·0	—
6	,, 25	0 3·5	0 8·5	0 11·5	0 15·5	1·0	—
7	Mar. 5	2 25·2	2 30·7	2 43·2	3 39·7	3·0	—
	,, 12	11 52·0	—	—	14 36·0	—	—
	,, 12	19 17·0	Small	tremors	0 0·0	—	—
	,, 17	2 47·0	Frequent small tremors			—	—
	,, 20	19 30·0	Lamp out, no record till 0h.			—	—
	,, 21	4 7·5	Small	tremors	4 47·0	—	—
8	,, 23	12 28·7	12 33·7	12 40·7	13 51·7	4·75	—
	,, 25	17 30·0	Frequent small tremors			—	—
	,, 26	—	—	—	22 47·0	—	—

Register from Perth Observatory, Western Australia –continued.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	
9	,, 26	23 23·5	23 28·0	—	0 0·0	—	—
	,, 27	0 0·0	—	0 30·0	2 2·0	4·0	—
				0 36·5	—	4·75	
10	Ap. 9	23 54·5	23 58·5	0 3·5	0 0·0	—	—
	,, 10	0 0·0	—	—	1 2·0	4·0	—
11	,, 11	16 27·5	16 29·0	16 31·5	16 48·5	0·75	—
	,, 12	19 16·0	Small tremor		19 39·0	—	—
	,, 19	8 24·0	—	—	8 35·0	—	—
12	,, 23	0 2·8	0 6·6	0 17·8	1 41·0	4·5	—
	,, 23	2 14·0	Frequent small tremors		—	—	—
13	May 5	6 24·4	6 29·9	6 36·9	7 45·0	4·5	—
14	,, 5	11 35·0	11 51·4	11 57·4	12 24·7	1·5	—
15	,, 11	14 0·8	14 2·8	14 7·8	14 22·6	1·0	—
	,, 15	9 10·6	—	—	10 54·6	—	—
16	,, 20	7 46·6	7 51·9	7 58·6	8 56·6	5·25	—

Register from Sydney Astronomical Observatory, New South Wales.
Acting-Director, W. E. Raymond. *Observer*, W. C. Graham.

No.	Date	Commencement	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1908				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
154	Jan. 11	3 43·2	3 44·7	3 48·2	4 48·4	0·75	1 5·2	—
155	,, 19	7 23·8	7 25·2	7 26·8	7 48·4	1·0	0 24·6	—
156	,, 29	20 22·9	20 31·1	20 34·8	21 5·2	0·5	0 42·3	—
157	Feb. 2	14 24·7	14 27·9	14 33·0	15 7·8	1·15	0 43·1	—
158	,, 13	16 53·3	16 57·9	16 58·8	17 11·3	0·3	0 18·0	—
159	,, 20	15 36·8	15 39·5	15 40·3	15 53·6	0·35	0 16·8	—
160	,,24-25	23 48·8	23 53·3	23 54·2	0 15·5	2·2	0 26·7	—
161	Mar. 5	2 27·9	2 31·9	2 36·2	4 0·9	5·6	1 33·0	—
162	,, 15	9 14·6	9 23·4	9 28·1	10 10·8	0·9	0 56·2	—
163	,, 15	11 10·4	11 13·3	11 14·4	11 30·6	0·35	0 20·2	—
164	,, 16	13 28·3	13 29·0	13 29·9	13 34·7	0·6	0 6·4	—
165	,, 19	3 4·0	3 14·7	3 19·0	3 27·2	0·35	0 23·2	—
166	,, 21	4 9·1	4 30·8	4 33·1	4 57·4	0·5	0 48·3	—
167	,, 23	12 30·5	12 42·9	12 49·7	13 49·9	6·0	1 19·4	—
168	,,26-27	23 23·5	23 40·8	23 45·5	1 33·5	1·5	2 10·0	Mexican earthquake. —
169	April 7	1 22·9	1 25·6	1 28·2	1 47·4	0·7	0 24·5	—
170	,, 9-10	23 57·8	0 6·8	0 8·6	1 10·4	6·3	1 12·6	Severe tremor in South Australia on this date. —
171	,, 11	16 33·6	0 35·2	0 36·9	0 42·2	0·6	0 8·6	—
172	,, 12	19 15·7	19 21·1	19 23·2	19 49·4	2·0	0 33·7	—
173	,, 23	0 1·0	0 13·4	0 24·3	1 32·0	1·1	1 31·0	—
174	,, 24	18 13·2	—	—	21 54·0	—	3 40·8	Thickening of line.
175	,, 25	13 59·0	—	18 12·0	20 58·5	0·5	6 59·5	,, ,,
176	May 5	6 25·1	6 31·7	6 50·3	7 46·8	1·7	1 21·7	,, —
177	,, 7	17 55·3	—	19 21·0	22 35·6	0·5	4 40·3	Thickening of line.
178	,, 17	8 0·4	8 9·2	8 11·6	9 28·3	1·6	1 27·9	—
180	,, 31	3 20·4	—	3 21·9	3 31·2	0·5	0 10·8	Thickening of line.
185	June 17	12 30·1	12 33·1	12 34·3	12 56·6	0·7	0 26·5	—
187	,, 19	4 17·0	—	4 19·3	4 26·2	0·4	0 9·2	Thickening of line.

Register from the Magnetic Observatory, Christchurch, New Zealand.
Observer, Henry F. Skey, *B.Sc.*

Date	P.T.	B.	Max.	Amp.	E.	Duration	Remarks
			1908				
	H. M.	H. M.	H. M.	MM.	H. M.	H. M.	
Jan. 19	7 33·7	—	7 42·0	0·1	—	0 33·1	—
,, 20	0 46·5	—	—	—	—	0 05·7	Small, carrot-shaped.
,, 21	0 46·8	—	0 53·0	0·9	—	0 56·4	—
Feb. 6	1 50·4	—	—	—	—	0 37·2	Thickening of line.
,, 6	6 00·2	—	—	—	—	0 06·0	Small, carrot-shaped.
,, 7	2 56·5	—	3 00·6	0·15	—	0 07·2	—
,, 14	1 03·1	—	1 06·2	0·7	—	0 23·8	—
,, 24	23 57·8	24 01·5	24 02·5	1·6	24 04·6	0 38·3	—
,, 27	0 21·6	—	—	—	—	0 03·2	Minute.
,, 27	9 19·6	—	—	—	—	0 43·9	Swellings.
,, 27	—	—	12 30·4	1·4	—	—	In middle of continuous tremors. Max. at beginning of quake.
,, 29	21 49·6	—	21 55·8	0·4	—	0 12·4	—
Mar. 5	2 28·8	2 52·1	2 59·8	1·6	3 06·0	1 52·7	—
,, 15	Indefinite	10 19·4	10 20·4	2·7	10 29·7	Indefinite	P.T. and A.T. obscured by N.T's.
,, 19	3 08·1	—	3 11·7	0·5	—	0 47·6	—
,, 21	4 25·8	—	—	—	—	0 38·3	Preceded and followed by minute tremors.
,, 23	Indefinite	11 46·6	12 06·2	2·9	12 12·4	Indefinite	P.T. and A.T. obscured by night tremors.
,, 26	23 16·3	23 27·6	24 09·0 and 24 29·7	4·25	24 50·4	2 58·9	? Origin Mexico.
,, 27	4 11·6	—	4 53·5 and 5 15·2	0·55	—	2 06·7	? Origin Mexico.
April 7	1 26·2	—	1 37·5	0·5	—	0 43·4	—
,, 10	0 03·6	0 20·0	0 31·8	1·55	0 35·4	1 40·0	—
,, 12	9 09·1	—	9 14·8	0·1	—	0 16·5	—
,, 12	19 18·4	—	19 36·0	0·75	—	0 40·3	—
,, 15	6 06·1	—	6 17·4	0·4	—	0 21·7	—
,, 23	0 07·0	0 09·6	0 39·9	1·85	0 54·1	2 04·6	—
May 5	5 28·2	—	6 03·8 and 6 05·4	1·0	—	1 40·3	—
,, 20	8 00·9	—	8 24·7	0·8	—	Indefinite	Followed by night tremors.
,, 21	7 19·1	—	—	—	—	0 14·5	Slight.
June 3	Indefinite	—	21 25·3	1·0	—	Indefinite	—
,, 18	1 39·6	—	1 43·7	0·25	—	0 14·4	—

B.E.=Beginning and end of vibrations not less than 2 mm.
A.T.=After-tremors.

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

No.	Date.	Commencement.	Max.	End.	Amplitude.	Remarks.
			1907			
		H. M.	H. M.	H. M.	MM. = "	
618	Jan. 2	11 25·0	11 29·0	11 36·5	1·0 0·2	N.-S. Very slight in E.-W.
	,, 2	—	12 3·0	—	2·0 0·5	P_2, 11 55·5.
619	,, 4	5 31·5	5 55·0	7 32·5	1·0 1·2	E.-W. For N.-S. see copy, P_3, 5 38·0.
620	,, 15	17 29·0	17 31·4	17 38·5	— —	E.-W. End in N.-S.
	,, 15	17 30·0	17 37·5	?	— —	N.-S. Uncertain, P_3, 17 34·5.
621	,, 27	18 13·2	18 14·2	18 15·7	— —	N.-S. Two independent thickenings
	,, 27	18 17·2	18 19·2	18 22·7	— —	of the trace. P_3, 18 18·7.
622	Feb. 3	20 16·8	20 17·8	20 23·8	— —	E.-W.
	,, 3	20 27·8	20 30·3	20 35·3	— —	N.-S. Commencement sudden in each component. P_3, 20 29·8.
623	,, 21	7 28·0	7 34·0	7 43·0	1·0 0·3	E.-W. P_3, 7 32·0.
624	Mar. 13	1 27·3	1 47·3	1 51·3	— —	N.-S. P_3, 1 44·3.
625	,, 18	18 48·0	18 49·0	18 51·0	0·6 0·2	N.-S. Seismic origin doubtful.
626	,, 24	0 25·5	—	0 27·5	1·0 0·2	E.-W.
	,, 24	0 25·5	0 27·5	0 33·0	1·0 0·4	N.-S. P_3, 0 26·5.
627	,, 24	11 39·5	—	12 56·5	— —	N.-S.
628	,, 24	19 26·5	19 27·5	19 29·5	1·0 0·2	E.-W. Thickening of the trace.
	,, 24	19 23·5	—	19 29·5	0·5 0·2	N.-S.
629	,, 29	21 5·7	21 11·2	21 38·7	— —	N.-S. Several slight thickenings of trace.
630	,, 31	8 43·1	—	8 56·1	— —	N.-S. Slight thickenings of trace.
631	,, 31	22 ±	22 53·5	23 3±	0·5 0·2	E.-W. P_3, 22 48·0.
	,, 31	22 11·5	22 17·0	!	1·0 0·2	N.-S. P_3, 22 13·0.
632	April 4	0 39·2	0 40·0	1 0·0	1·0 0·2	E.-W.
	,, 4	0 37·5	0 41·0	0 47·0	0·5 0·2	N.-S.
633	,, 13	19 40·8	—	20 15·8	0·5 0·2	N.-S. Irregular movements which do not appear to be of seismic origin.
634	,, 15	6 27·5	6 46·0	7 8·5	2·0 0·6	P_3, 6 45·0. E.-W. For disturbance
	,, 15	—	7 49·0	9 12·0	3·0 0·9	P_3, 7 32·5. in N.-S. see copy.
635	,, 19	—	0 35·9	—	? ?	E.-W. Faint in E.W.
	,, 19	0 14·4	0 24·4	0 29·4	1·5 0·6	N.-S.
636	,, 23	10 5·5	10 7·0	10 8·5	1·0 0·3	E.-W.
	,, 23	10 7·5	—	10 9·0	1·5 0·4	N.-S.
637	,, 24	12 1·0	12 3·0	12 9·0	1·5 0·6	N.-S.
638	,, 25	20 44·5	—	20 52·0	— —	N.-S. Isolated thickenings.
	,, 25	21 10·5	—	21 20·5	— —	
639	May 2	18 11·0	18 14·0	18 19·0	1·0 0·3	N.-S.
640	,, 5	3 10·3	3 13·8	3 16·3	0·5 0·2	E.-W.
641	,, 6	1 46·8	1 47·8	1 51·3	0·5 0·2	N.-S.
642	,, 11	20 39·6	20 40·1	20 44·1	0·5 0·2	E.-W.
643	,, 25	12 10·9	12 34·9	12 53·4	0·5 0·2	E.-W. A Max. in 2nd Phase at 15h.24·9m. P_2, 12 26·4. P_3, 12 31·4.
644	,, 31	13 10·5	13 19·5	13 54·5	— —	N.S. Indistinct in E.W. P_2, 13 12·5. P_3, 13 17·5.
645	June 1	9 46·0	10 3·0	10 42·0	— —	E.-W. P_2, 9 52·5. P_3, 9 57·0.
	,, 1	9 42·5	9 54·5	9 43·0	1·5 0·5	N.-S. P_3 9 52·5.
646	,, 5	—	4 44·0	5 6·5	2·0 0·4	E.-W. Beginning lost. P_3, 4 38·0.
647	,, 6	0 18·1	0 21·1	0 24·6	— —	E.-W.
	,, 6	0 20·1	0 21·1	0 23·1	— —	N.-S.
648	,, 25	18 16·0	18 16·5	19 2·0	0·5 0·2	N.-S.
649	,, 29	6 8·3	6 14·8	6 25·3	— —	E.-W.
650	July 4	9 36·0	9 47·5	9 54·5	0·5 0·2	E.-W. P_3, 9 46·5.
651	,, 9	19 16·7	19 36·2	19 53·7	0·5 0·2	E.-W. P_3, 19 32·7.
652	,, 20	13 51·3	14 23·8	14 45·0	1·0 0·3	E.-W. P_2, 14 0·8. P_3, 14 20·3.
	,, 20	14 0·8	14 11·8	--	— —	N.-S.
653	,, 21	7 4·0	—	7 8·0	— —	N.-S.
654	,, 29	1 0·8	1 14·3	1 34·3	— —	E.-W. P_3, 1 13·3
	,, 29	1 0·8	—	1 51·3	— —	N.-S.
655	,, 29	19 48·3	20 4·3	20 24·3	— —	E.-W. Very slight in N.S. P_2, 19 54·3. P_3, 20 1·3.
656	Aug. 5	6 7·0	6 24·5	6 27·5	— —	E.-W. Not registered in N.-S. P_3, 6 24·0.
	,, 5	7 3·0	7 8·0	—	0·3 0·1	E.-W. P_3, 7 7·0.
	,, 5	7 3·0	7 8·5	7 10·0	0·3 0·1	N.-S. P_3, 7 5·5.
657	,, 9	19 55·5	20 3·5	20 16·5	— —	E.-W. Not registered in N.-S.
658	,, 17	17 50·0	17 57·5	18 5·5	— —	N.-S. Register lost in E.-W.
659	Sept. 27	10 7·4	—	10 17·4	— —	E.-W. Slight thickenings of the trace.
660	Oct. 1	11 10·3	—	11 35·3	— —	E.-W. Not registered in N.-S.
661	,, 4	10 45·0	10 50·0	10 59·0	0·5 0·2	N.-S. Register lost in E.-W.
662	,, 11	15 9·5	15 32·0	—	— —	E.-W. P_3, 15 28·5.
	,, 11	15 9·5	15 33·5	—	— —	N.-S. P_3, 15 26·0.

Register from the Royal Alfred Observatory, Mauritius—continued.

No.	Date.	Commencement.	Max.	End.	Amplitude.	Remarks.
		H. M.	H. M.	H. M.	MM. = "	
663	Oct. 16	14 45·5	15 42·0	—	1·0 0·3	E.-W. P_2, 15 23·5. P_3, 15 34·0.
	,, 16	—	15 46·5	—	1·3 0·4	N.-S. P_2, 15 29·0. P_3, 15 34·5.
664	,, 17	4 31·0	—	4 34·0	— —	N.-S. Slight thickening of the trace.
665	,, 21	—	6 44·0	—	— —	N.-S. Beginning lost.
666	,, 26	18 9·5	18 11·5	18 32·0	0·5 0·2	E.-W.
	,, 26	18 10·0	18 11·5	—	0·5 0·2	N.-S.
667	,, 27	7 32·5	7 52·5	7 59·0	— —	E.-W.
	,, 27	7 32·5	7 52·5	7 59·0	— —	N.-S.
668	Nov. 12	7 53·0	7 57·5	8 2·0	— —	N.-S.
669	,, 21	20 17·8	20 29·8	21 50·3	3·0 1·2	E.-W. P_2, 20 23·3.
	,, 21	20 18·8	20 24·3	—	3·5 1·2	N.-S. P_2, 20 22·3.
670	,, 29	6 45·0	—	6 55·0	— —	N.-S.
671	Dec. 3	4 55·9	—	5 0·9	— —	E.-W.
672	,, 15	17 58·5	18 17·0	18 37·0	1·0 0·3	N.-S. Very slight in E.-W. P_2, 18 11·0. P_3, 18 15·0.

Commencement of Second Phase and of Large Waves are indicated by the letters P_2 and P_3.
North-South and East-West compononts are referred to by the letters N.-S. or E.W.

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