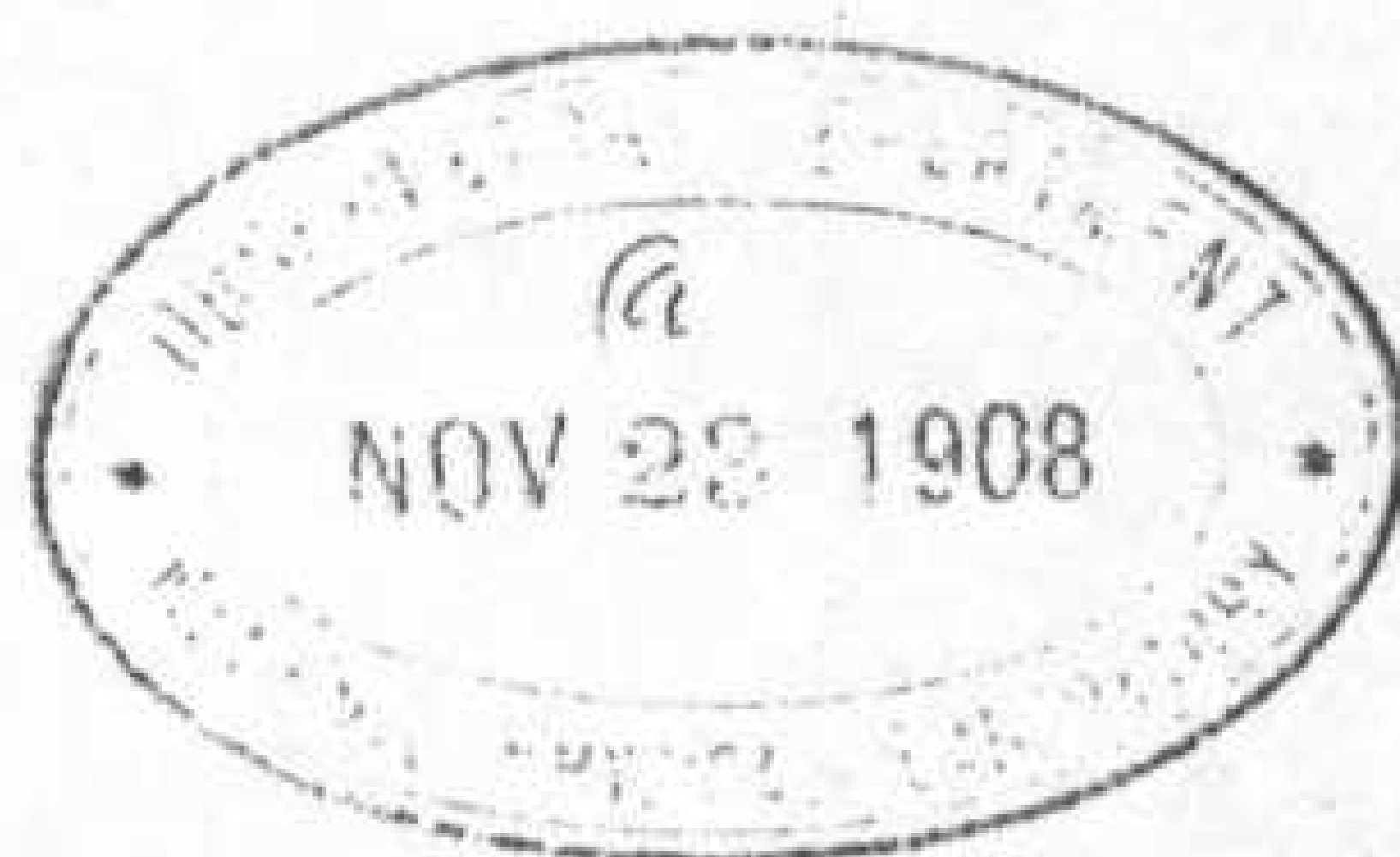




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A

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).*

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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 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	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1908						
1516	Jan. 1	H. M. 12 59.4	H. M. 13 59.4	MM. —	H. M. 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 4 34.5 4 28.4 4 33.4 4 32.5	{ 5.2 6.2 5.0 7.0 3.0	{ 2 57 — — — —	A. } B. } End lost C. } in A.T's.

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

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	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	—	—	—	A, B, and C.
1542	" 11	9 0.0	—	—	—	
		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.

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

No.	Date	Commence- ment		Max.		Max. Ampli- tude	Dura- tion	Remarks
		H.	M.	H.	M.	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.

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

No.	Date	Commence- ment		Max.		Max. Ampli- tude	Dura- tion		Remarks
		H.	M.	H.	M.	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	2.5	3	44	B.
				2	17.3	—	—	—	
		0	2.3	0	49.8	2.0	3	44	C.
				2	14.3	—	—	—	
1576	" 30	5	5.8	5	46.8	0.1	—	—	A. Extremely slight tremor, 7h.35m.
		5	5.8	5	47.3	0.2	—	—	B. } A.T's pre-
		5	5.0	5	37.5	0.1	—	—	C. } sent. End
				7	35.0	—	—	—	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. }
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.

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

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
		H. M.	H. M.	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	L.
		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	—	—

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

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1908						
816	Jan. 13	H. M. 13 39.0	H. M. 13 58.5	MM. 0.9	H. M. 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 charac- ter 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 " "

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

No.	Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1908								
1048	Jan. 4	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
1049	" 8	—	23 6.2	23 13.0	23 19.2	0.2	0 13	
1050	" 11	3 54.0	12 34.0	—	12 46.0	—	0 12	Doubtful.
1051	" 14	—	3 59.2	4 26.7	6 28.0	4.6	2 34	
1052	" 15	—	—	16 50.0	—	—	—	Short but decided disturbance.
1053	" 16	—	13 20.8	13 54.5	15 15.0	2.1	1 54	
1054	" 25	—	9 46.7	9 53.0	10 10.1	0.3	0 23	
1055	" 27	—	0 1.0	0 8.3	0 20.8	0.2	0 20	
1056	" 31	—	16 26.0	16 39.9	—	1.0	—	End uncertain.
1057	Feb. 1	23 37.0	4 41.8	4 48.4	5 8.3	—	0 27	Small.
1058	" 5	—	23 55.9	0 0.7	1 5.4	1.3	1 28	
1059	" 9	—	22 57.8	23 5.4	23 40.2	0.3	0 42	
1060	" 9	—	3 56.2	4 12.0	4 40.0	0.9	0 44	
1061	" 9	—	9 47.3	9 56.0	10 20.7	0.6	0 33	
1062	" 11	—	18 37.4	19 10.5	20 10.0	1.3	1 33	
1063	" 14	—	13 37.2	13 43.5	14 12.0	0.3	0 35	
1064	" 21	—	9 5.0	9 16.7	10 18.8	1.1	1 14	
1065	Mar. 1	—	19 42.0	—	20 1.0	—	0 19	Irregular disturbance.
1066	" 4	—	20 57.2	21 3.8	21 29.0	—	0 32	Small.
1067	" 5	—	0 5.8	0 9.7	0 21.2	0.3	0 15	
1068	" 12	—	2 34.5	3 27.2	4 24.1	1.6	1 50	
1069	" 13	—	19 46.0	20 3.3	20 17.8	0.2	0 32	
1070	" 13	—	6 53.3	7 13.2	7 34.0	—	0 41	Small.
1071	" 14	—	18 45.7	18 52.2	19 9.6	0.2	0 24	
1072	" 15	—	19 41.0	19 49.0	19 58.2	—	0 17	
1073	" 15	—	7 57.2	8 11.8	8 34.0	0.2	0 37	
1074	" 15	—	9 46.2	9 53.0	10 9.8	0.2	0 24	
1075	" 17	—	10 32.6	11 4.5	11 51.1	0.4	1 19	
1076	" 23	—	1 31.0	—	2 4.0	—	0 33	Evident disturbance.
1077	" 25	—	12 39.0	13 2.6	15 5.0	0.7	2 26	
1078	" 26	—	19 27.0	19 40.2	20 16.3	0.6	0 49	
1079	" 27	—	23 15.0	23 58.4	2 23.2	12.0	3 8	
1080	" 27	—	3 59.3	4 38.2	6 44.3	4.8	2 45	
1081	April 2	—	19 58.2	20 6.7	20 20.2	—	0 22	
1082	" 4	—	6 6.2	6 25.0	7 34.5	1.7	1 28	
1083	" 10	—	—	5 35.0	—	—	—	
1084	" 12	—	0 53.1	1 4.0	1 28.9	—	0 36	
1085	" 16	—	—	19 12.0	—	—	—	
1086	" 21	—	16 59.6	17 3.5	17 21.3	0.2	0 22	
1087	" 23	0 19.6	16 1.2	16 9.4	16 26.5	0.2	0 25	
1088	" 23	—	0 27.7	0 32.5	1 47.2	1.0	1 28	
1089	" 26	—	1 59.1	2 5.6	2 34.0	0.6	0 35	
1090	" 30	—	18 27.2	18 37.0	18 47.7	0.4	0 20	
1091	May 2	—	5 34.5	5 43.2	6 6.1	—	0 32	
1092	" 3	—	18 18.3	18 22.5	18 37.0	0.3	0 19	
1093	" 5	6 34.7	1 35.7	1 43.3	2 18.0	0.5	0 42	
1094	" 5	—	6 46.2	7 20.7	8 36.3	1.6	2 2	
1095	" 5	—	8 41.3	8 52.5	9 14.8	0.4	0 34	
1096	" 11	—	11 44.4	12 16.3	12 53.6	0.5	1 9	
1097	" 12	—	14 48.2	14 57.0	15 18.7	—	0 31	
1098	" 15	—	21 9.0	21 20.7	21 52.8	0.2	0 44	
1099	" 15	—	8 50.6	9 11.0	10 43.2	3.3	1 52	
1100	" 17	—	11 15.0	11 23.1	11 47.0	0.3	0 32	
1101	" 17	—	12 41.6	12 50.2	13 12.6	0.6	0 31	
1102	" 20	—	16 41.3	—	16 49.0	0.4	0 8	
1103	" 30	—	8 45.8	8 56.9	9 14.0	0.2	0 28	
1104	June 1	—	—	14 35.0	—	—	—	Slight disturbance.
1105	" 3	—	9 18.1	9 25.8	9 44.0	—	0 26	
1106	" 4	—	16 13.8	16 34.2	17 20.0	0.6	1 6	
1107	" 9	—	2 28.0	2 37.3	2 49.2	0.4	0 21	
1108	" 9	—	3 48.2	3 52.0	3 58.7	—	0 11	Small.
1109	" 13	—	19 41.3	19 45.7	19 53.0	0.2	0 12	
1110	" 18	—	—	—	—	—	—	22h.-23h. disturbance, perhaps A.T.
1111	" 23	—	11 27.2	11 31.0	11 39.0	—	0 12	
1112	" 27	—	11 44.6	11 50.5	11 54.0	0.2	0 9	Of doubtful origin.
1113	" 28	—	15 10.6	15 19.7	15 44.0	0.5	0 33	
	" 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.

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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 21.0	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 21.0	0.15	0 31.0	Slight tremors
Mar. 5		3 6.5	—	—	3 55.0	—	0 48.5	Zigzag line.
" 23-27		23 11.0	—	23 26.0	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 3.0	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 31.0	16 36.5	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 23. " = 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 19.0	—	4 32.0	6 40.0	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 12.0	—	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	" 23-27	23 15.8	—	23 52.0	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	—

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

No.	Date	Commence- ment	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
1908							
192	Jan. 3	H. M. 20 0.3	H. M. 21 50.0	H. M. 25 10.0	MM. 1.0	H. M. 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 23.0	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.

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

No.	Date	Commence-ment	L. W. Commence	Max.	End	Duration	Max. Ampli-tude	Remarks
1908								
826	Jan. 11	H. M. 3 52.8	H. M. 4 33.1	H. M. 4 40.4	H. M. 4 45.9	H. M. 2 11.6	MM. 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 41.5	16 45.3	16 50.1	0 22.5	0.60	—
830	" 28	21 30.7	—	—	—	—	—	—
831	" 29	—	—	—	—	3 35.0	—	Tremors.
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	—	" "
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 41.8	9 45.3	—	0 14.9	0.40	Small movement.
836	" 9	18 31.8	19 1.3	19 3.3	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 41.3	0.60	—
839	" 15	0 42.6	—	—	—	9 34.9	—	Tremors.
840	" 19	3 25.7	3 25.7	—	—	3 40.0	—	"
841	" 21	3 10.4	3 10.4	—	—	5 25.9	—	"
842	" 23	3 17.0	3 17.0	—	—	6 54.5	—	"
843	" 23	0 39.6	0 38.6	—	—	9 11.9	—	"
844	" 24	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 38.4	—	"
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	—
850	" 6	5 45.5	—	3 38.5	—	3 41.0	2.00	Tremors.
851	" 7	4 32.5	—	—	—	4 56.0	—	"
852	" 15	8 54.1	10 34.9	10 48.5	10 49.9	2 15.8	0.60	—
853	" 19	2 21.1	—	4 32.1	—	2 15.0	—	Small movements.
854	" 21	1 26.7	4 51.6	4 58.4	4 58.8	3 49.5	0.95	Tremors till 10h. 46.7m.
855	" 23	12 45.3	13 37.3	13 45.8	13 48.3	1 45.5	0.70	—
856	" 25	19 15.6	19 33.9	19 36.8	19 37.8	0 39.6	0.75	—
857	" 26	23 19.0	23 40.0	23 51.5	—	—	16.50	—
858	" 27	—	—	0 0.5	0 39.1	5 3.0	12.00	Mexico's earth-quake (Chilapa)
859	" 27	4 10.0	4 28.0	4 32.6	4 45.6	5 35.0	8.50	—
860	April 7	16 53.0	—	—	—	0 7.8	0.30	Small movement.
861	" 19	8 22.2	—	—	—	1 16.0	—	"
862	" 21	15 52.3	16 4.3	16 7.0	16 12.3	0 35.5	0.50	"
863	" 23	0 7.9	0 33.4	0 40.9	0 48.9	2 18.0	15.00	Tremors till 8h. 13.4m.
864	May 3	1 37.0	1 41.5	1 45.0	1 47.6	0 28.5	1.20	—
865	" 5	6 56.5	7 26.1	7 30.6	7 47.6	1 45.1	2.50	—
866	" 12	21 19.0	—	21 26.0	—	0 27.5	0.50	Small movement.
867	" 15	8 51.1	9 9.1	9 11.7	9 22.3	1 41.7	3.50	—
868	" 23	7 13.8	—	7 34.3	—	1 35.0	0.50	Small movement.
869	June 20	3 29.3	—	6 12.9	—	5 36.1	1.00	"
870	" 27	15 17.9	15 17.9	15 24.9	15 32.9	0 15.0	0.50	"



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British Association for the Advancement of Science.

Circular No. 19, 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 eighteen 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 AND BURGESS.

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

A. Period 13 seconds. 1° turn = 2 mm.

B. Period 18 seconds. 1° turn = 6 mm.

C. Period 20 seconds; after November 23 period was 23 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

Ats. = Air tremors. P₂ refers to the commencement of the second phase of motion.

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1908						
1596	July 1	H. M.	H. M.	MM.	H. M.	
		8 15.3	8 28.5	0.2	0 33	A.
		8 14.8	8 28.0	0.4	0 45	B.
		8 14.3	8 20.8	0.4	0 45	C.
1597	,, 7	4 24.4	4 38.4	0.2	0 37	B.
		4 24.4	4 36.4	0.2	0 41	C.
1598	,, 8	12 55.3	13 7.8	0.4	1 13	A.
		12 42.0	13 7.5	0.7	1 38	B.
		12 42.1	13 9.5	0.6	1 42	C.
1599	,, 10	?	2 21.0	0.2	—	A.
		2 15.0	2 22.0	0.5	1 0	B.
		2 15.0	2 22.0	0.5	1 0	C.
1600	,, 13	21 24.7	21 56.5	0.2	1 56	B.
		21 20.2	21 53.2	0.5	2 9	C.

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

No.	Date	Commence- ment		Max.		Max. Ampli- tude	Dura- tion		Remarks
		H.	M.	H.	M.	MM.	H.	M.	
1601	July 26	16	29.4	17	9.4	—	1	21	B. } On A also, but times uncertain. C. } Times not quite certain.
		16	31.4	17	9.4	—	1	21	
1602	Aug. 4	2	14.3	2	20.8	0.5	0	58	
		2	14.3	2	22.3	0.4	1	4	B.
1603	" 9	19	7.5	19	16.1	0.2	0	52	C.
		19	5.6	19	13.8	0.5	0	54	A.
		19	3.8	19	12.1	0.4	0	58	C.
1604	" 12	15	53.4	17	8.2	0.2	>1	35	B.
		15	53.2	17	9.7	0.6	>1	35	B. A, tremors.
1605	" 12	19	4.4	19	17.2	0.3	2	0	C.
				20	0.7				A.
		19	3.4	20	0.4	0.5	2	50	B.
1606	" 14	19	3.4	19	58.7	0.6	2	25	C.
		1	6.1	1	35.9	0.5	2	39	A.
		1	4.5	1	33.4	0.8	2	40	B.
1607	" 17	1	5.5	1	27.4	1.0	2	39	C.
		10	56.0	11	20.8	1.5	6	0	A.
		10	55.3	11	44.8	1.7	>6	30	B.
		1	55.3	11	44.8	4.0	—	—	} C.
1608	" 18	?		12	53.8	1.0	>6	30	
				19	20.9	—	—	—	A. Ats.
		19	9.4	19	21.9	0.2	1	9	B.
1609	" 19	19	10.1	19	24.9	0.5	1	26	C.
		0	49.0	1	20.5	0.1	—	—	A. Duration uncertain.
		0	49.5	1	21.0	0.2	1	15	B.
1610	" 19	0	49.5	1	21.0	0.2	1	12	C.
		2	7.5	2	22.5	0.2	1	2	B. Ats. con- tinuously on A.
1611	" 19	2	12.0	2	25.0	0.4	0	53	C.
		18	1.0	—	—	—	—	—	B and C.
1612	" 20	20	1.5	—	—	—	—	—	
		10	8.8	10	38.3	4.0	1	14	A.
		10	5.1	10	34.8	2.5	1	25	B.
1613	" 21	10	6.1	10	32.9	7.0	3	52	C.
		23	10.3	—	—	—	—	—	A.
1614	" 22	23	4.5	23	28.8	—	0	25	B and C.
		12	16.4	12	45.2	0.2	1	11	A.
		12	16.4	12	43.9	0.2	1	23	B.
1615	" 22	12	16.6	12	40.1	0.4	1	27	C.
		13	50.0	—	—	—	0	10	A, B, and C.
1616	" 22	14	12.0	—	—	—	0	48	Tremors.
1617	" 22	15	20.0	—	—	—	0	40	" " " "
1618	" 22	19	30.0	19	52.2	0.4	2	15	" " " "
		19	28.8	19	52.5	0.4	2	17	A.
		19	29.7	19	49.3	0.4	2	16	B.
1619	" 29	18	18.7	18	31.1	0.5	1	43	C.
		18	15.2	18	30.4	1.0	1	49	A.
		18	15.2	18	27.7	0.7	1	55	B.
1620	Sept. 4	16	57.6	17	7.1	1.8	>1	0	C.
		16	57.4	17	8.0	2.1	>1	0	A. } End ob- B. } scured by C. } changing paper.
		16	56.7	17	5.3	2.5	>1	0	

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

No.	Date	Commence- ment		Max.		Max. Ampli- tude	Dura- tion		Remarks
		H.	M.	H.	M.	MM.	H.	M.	
1621	Sept. 9	7	4.5	7	20.0	1.0	—	—	A.
		7	4.0	7	15.5	1.5	1	0	C.
1622	" 21	6	56.1	7	34.8	0.7	3	5	A.
		6	55.6	7	42.1	0.7	3	6	B.
		6	54.1	7	32.1	1.1	3	7	C.
1624	" 23	23	54.1	—	—	—	—	—	Tremor. A, B, and C.
1625	" 24	0	14.3	0	21.1	0.5	0	27	A.
		0	13.3	0	19.9	0.5	0	29	B.
		0	12.8	0	20.3	0.5	0	28	C.
1626	" 24	0	59.1	1	7.6	0.9	0	38	A.
		0	59.1	1	6.3	0.9	0	32	B.
		0	59.1	1	6.6	0.9	0	33	C.
1627	" 26	6	49.0	—	—	0.2	0	30	C.
1628	" 28	6	34.4	6	51.4	0.6	1	56	A.
		6	34.2	6	49.9	0.5	1	55	B.
		6	35.2	6	49.9	1.7	1	55	C.
1629	Oct. 5	?	—	21	49.0	0.1	1	0	A.
		21	41.0	21	57.0	0.2	1	0	B.
		21	40.5	21	54.5	0.3	1	0	C.
1630	" 6	21	40.0	21	49.0	0.5	0	31	A.
		21	41.0	21	46.0	0.3	0	42	B.
		21	41.5	21	46.0	0.5	0	42	C.
1631	" 10	15	29.0	15	45.0	0.5	1	30	B.
		15	29.0	15	45.0	0.6	1	30	C.
1632	" 13	5	20.5	6	6.5	1.4	4	29	A.
		5	20.2	6	5.5	1.5	4	31	B.
		5	20.5	6	3.7	1.6	4	31	C.
1633	" 14	15	2.5	15	20.7	0.7	2	0	A. Trace for B lost.
		15	2.5	15	16.7	1.2	2	0	C.
1634	" 20	3	3.6	3	46.4	1.0	1	57	B.
		3	3.6	3	46.6	0.6	1	57	C.
1635	" 20	6	2.4	6	42.4	0.9	1	30	B. } Also 16h.
		6	2.4	6	42.6	0.2	1	34	C. } 48m., slight
1636	" 23	20	20.0	20	52.0	0.3	1	26	A.
		20	16.0	20	32.5	0.3	1	30	B. } Times ap-
		20	15.5	20	34.0	0.4	1	30	C. } proximate
1637	" 24	—	—	21	39.5	0.3	—	—	A.
		—	—	21	36.3	0.6	—	—	B. } Times ap-
		—	—	21	39.3	0.6	—	—	C. } proximate.
1638	Nov. 2	5	20.5	5	41.7	0.8	3	50	A. Second max. 6h.32m.
		5	28.5	5	40.5	1.0	4	0	B. Second max. 6h.20m.
		5	29.5	5	39.7	0.9	4	0	C. Second max. 6h.18m.
									Many small shocks until the 6th.
1639	" 6	7	22.0	8	7.0	1.5	2	39	A.
		7	16.5	—	—	—	4	5	B. Light out for B and C.
1640	" 6	13	8.5	14	37.0	1.0	?	—	B.
		13	8.5	14	30.0	1.0	2	50	C.
		13	58.5	14	40.0	0.5	1	55	A.

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

No.	Date	Commence- ment		Max.		Max. Ampli- tude	Dura- tion		Remarks
		H.	M.	H.	M.	MM.	H.	M.	
1641	Nov. 8	17	50.7	18	7.7	0.2	1	36	B.
		17	53.5	18	7.0	0.2	1	33	C.
1642	„ 9	15	23.0	16	3.0	—	1	5	A.
		15	29.2	16	12.0	0.5	2	12	B.
		15	31.0	16	8.0	0.5	2	12	C.
1643	„ 10	19	14.0	20	2.0	0.7	2	27	B.
		19	13.5	19	52.0	0.5	2	27	C. Slight on A.
1644	„ 11	13	37.0	14	27.0	1.0	2	33	A.
		13	19.0	14	25.0	2.0	3	41	B.
		13	19.0	14	19.0	1.5	3	41	C.
1645	„ 15	1	51.0	2	41.0	0.1	1	41	A.
		1	57.0	2	43.0	0.2	2	3	B.
		1	56.0	2	42.0	0.1	2	4	C.
1646	„ 15	—	—	6	29.0	—	0	6	A. Also on B and C.
1647	„ 18	—	—	6	0.0	0.1	0	8	A.
		5	17.0	5	35.0	0.1	1	0	C.
1648	„ 19	5	55.0	6	13.0	0.1	0	47	A.
		5	40.0	6	6.0	0.2	1	22	C.
1649	„ 22	8	0.0	8	17.0	0.1	1	24	A.
		7	57.0	8	10.0	0.2	2	0	B.
		7	56.0	8	8.0	0.2	2	10	C.
1650	„ 23	13	0.0	13	57.0	0.1	2	30	A.
		12	52.0	13	53.0	0.5	2	30	B.
		12	51.0	13	58.0	0.7	2	31	C.
1651	„ 23	16	59.0	17	1.0	0.1	0	15	A.
		16	46.0	17	6.0	0.2	0	56	B.
		16	44.0	17	3.0	0.2	1	0	C.
1652	„ 24	12	59.0	13	3.0	0.1	0	32	A.
		12	54.0	13	8.0	0.2	0	42	B.
		12	55.0	13	9.0	0.5	0	39	C.
1653	„ 27	—	—	22	59.0	0.1	—	—	A.
		—	—	22	57.0	0.2	—	—	B.
		—	—	22	58.0	0.5	—	—	C.
1654	„ 28	22	7.0	22	13.0	0.1	0	48	A.
		21	56.0	22	18.0	0.4	1	47	B.
		21	56.0	22	16.0	0.3	1	47	C.
1656	„ 30	22	0.0	22	26.0	0.6	1	23	A.
		22	0.0	22	34.0	0.7	1	30	B.
		22	0.0	22	27.0	0.6	1	34	C.
1657	Dec. 5	21	56.0	—	—	—	0	30	A.
		21	44.0	—	—	—	0	27	B.
		21	44.0	—	—	—	0	31	C.
1658	„ 9	11	8.0	—	—	—	0	28	} Very slight.
		11	7.0	—	—	—	0	39	
1659	„ 12	13	5.0	13	43.0	2.5	2	56	A.
		—	—	13	42.0	3.2	3	0	B.
		13	5.0	13	39.0	5.2	3	0	C.
1660	„ 12	19	11.0	19	29.0	0.5	1	46	A.
		19	11.0	—	—	0.6	2	43	B.
		19	11.0	—	—	0.7	2	33	C.
1661	„ 13	8	4.0	8	9.0	1.2	1	0	A.
		8	13.0	—	—	—	0	50	B.
		8	12.0	—	—	—	0	50	C.
1662	„ 13	16	10.0	16	11.5	0.2	0	10	B.
		16	10.0	16	11.0	0.3	0	10	C.

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

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
		H. M.	H. M.	MM.	H. M.	
1663	Dec. 18	15 45.0	16 15.0	1.2	—	A.
		15 45.0	16 12.0	1.5	—	B.
		15 45.0	16 12.0	2.0	—	C.
1664	„ 22	3 34.5	3 42.0	0.5	0 42	A.
		3 20.0	3 40.0	1.0	1 20	B.
1665	„ 23	8 39.0	8 47.0	0.1	0 21	A.
		—	8 47.5	0.1	—	B.
		—	8 47.0	0.25	—	C.
1666	„ 23	21 31.0	21 36.5	0.1	0 30	A.
		21 31.0	21 34.5	0.2	0 20	B.
		21 29.0	21 34.0	0.25	0 30	C.
1667	„ 25	16 58.5	17 9.0	0.1	1 0	A.
		—	17 8.0	0.1	—	B.
		—	17 7.0	0.1	—	C.
1668	„ 25	21 28.5	21 36.0	0.75	0 52	A.
		21 24.0	21 36.0	0.6	1 0	B.
		21 24.0	21 34.0	0.75	1 15	C.
1669	„ 26	7 9.5	7 10.5	0.1	0 16	A.
		7 8.5	7 10.0	0.1	0 15	B.
		7 8.5	7 10.5	0.1	0 15	C.
1670	„ 28	—	4 33.5	>15	4 0	A. P ₂ at 4h. 24m.
		4 20.5	4 31.0	>16	4 0	B. P ₂ at 4h. 24.3m.
		4 14.0	4 31.0	>30	4 0	C. P ₂ at 4h. 24.3m.
1671	„ 29	18 38.5	18 40.5	0.1	0 8	A.
		18 38.5	18 40.5	0.1	0 12	B.
		18 38.0	18 40.5	0.1	0 11	C.
1672	„ 29	23 15.3	23 23.7	0.2	0 35	A.
		23 15.0	23 22.0	0.6	0 40	B.
		23 12.0	23 24.0	0.2	0 48	C.
1673	„ 30	?	22 22.0	0.1	?	A.
		?	22 47.0			
		?	22 19.0	0.1	?	B.
		?	22 54.0			
		?	22 18.0	0.1	?	C.
			22 54.0			

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

No.	Date	Commence- ment	Max.	Max. Ampli- tude	Dura- tion	Remarks
1908						
845	July 1	H. 8 M. 5.3	H. — M. —	MM. 0.5	H. 0 M. 7	—
846	" 10	9 24.5	—	0.6	0 8	—
847	" 13	21 48.2	—	0.2	0 13	Ill-defined.
848	" 26	17 8.3	—	0.2	0 14	—
849	Aug. 4	2 24.3	—	0.4	0 7	—
850	" 9	19 11.4	—	0.2	0 6	Ill-defined.
851	" 17	11 5.3	11 43.8	2.5	2 35	—
852	" 18	19 20.8	—	0.2	0 5	—
853	" 20	10 11.3	10 34.4	2.0	1 5	—
854	" 29	18 25.7	—	0.3	0 8	—
855	Sept. 4	17 1.0	17 6.2	1.0	0 19	—
856	" 21	7 1.7	7 22.4	0.6	1 19	—
857	" 24	0 18.3	—	0.2	0 5	Ill-defined.
858	" 24	1 4.2	—	0.3	0 4	"
859	" 28	6 43.7	6 49.1	0.8	0 23	—
860	Oct. 13	5 32.0	6 1.0	1.4	1 10	Times approx- imate.
861	" 14	15 11.7	15 20.3	0.8	0 16	—
862	" 17	18 21.8	—	0.6	0 11	Seismic charac- ter somewhat doubtful.
863	" 20	3 38.3	3 40.2	0.5	0 10	—
864	" 20	6 38.7	—	0.2	0 13	Ill-defined.
865	Nov. 2	5 45.8	6 18.0	0.7	1 21	—
866	" 6	7 31.6	7 59.0	1.9	1 20	—
867	" 11	13 41.0	14 25.0	0.6	1 18	—
878	" 23	13 22.8	—	0.2	0 45	Ill-defined.
869	" 30	22 20.7	—	0.2	0 15	"
870	Dec. 12	13 15.0	13 44.9	2.2	1 32	—
871	" 18	15 58.0	16 18.3	0.6	1 7	—
872	" 23	9 30.0	—	0.2	0 10	Ill-defined.
873	" 28	4 23.6	{ 4 31.1 4 32.7	>17.0	2 10	Sicilian E.Q.

Scale—July 1. 1mm. displacement of boom = 0".56 of arc.
October 28. " " " " = 0".56 " "
December 19. " " " " = 0".55 " "

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

No.	Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1908								
1114	June 30	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	Very weak disturb- ance.
		—	—	3 0.0	—	—	—	—
1115	July 1	—	8 12.5	8 19.7	8 39.0	0.3	0 27	—
1116	" 4	—	14 48.0	—	14 59.0	—	0 11	Time doubtful.
1117	" 6	—	8 51.8	8 59.3	9 15.0	—	0 23	—
1118	" 7	—	4 30.6	4 36.3	4 52.2	0.2	0 21	—
1119	" 8	—	12 54.0	13 4.9	13 42.1	0.6	0 48	—
1120	" 10	—	2 17.0	2 29.2	2 49.3	—	0 32	Feeble.
1121	" 13	—	21 34.9	21 54.5	22 44.0	0.4	1 9	—
1122	" 16	—	17 10.7	17 14.6	17 28.7	0.3	0 18	—
1123	" 26	—	17 5.7	17 15.0	17 46.4	0.4	0 41	—
1124	" 26	—	18 22.3	18 27.0	18 37.2	0.4	0 15	Record faint.
1125	Aug. 2	—	15 2.5	15 6.0	15 17.1	0.1	0 15	—
1126	" 4	—	2 14.2	2 21.8	2 37.0	0.3	0 23	—
1127	" 9	—	19 7.0	19 11.1	19 22.8	0.2	0 16	—
1128	" 12	—	17 0.7	17 26.0	18 14.3	0.5	1 14	—
1129	" 12	—	19 11.2	19 20.4	20 19.1	0.4	1 8	—
1130	" 14	—	1 16.0	1 27.0	1 50.0	—	0 34	Record faint. Time uncertain.
1131	" 16	—	10 16.8	10 31.0	11 1.0	—	0 44	Line uneven. Per- haps A.T.
1132	" 17	11 7.2	11 17.9	11 42.3	13 38.0	1.4	2 31	—
1133	" 18	—	19 32.2	19 51.3	20 6.2	0.2	0 34	Feeble.
1134	" 19	—	1 15.2	1 22.8	1 34.4	—	0 19	Small.
1135	" 20	10 14.0	10 22.9	10 39.5	11 28.7	2.8	1 15	—
1136	" 22	—	12 38.1	12 44.7	13 1.3	0.4	0 23	—
1137	" 22	—	19 47.0	19 52.4	20 0.0	0.4	0 13	—
1138	" 29	—	18 21.8	18 29.0	18 40.9	0.5	0 19	—
1139	Sept. 3	—	12 46.1	12 49.2	13 4.8	0.2	0 19	—
1140	" 4	—	17 0.0	17 7.2	17 24.5	1.4	0 25	—
1141	" 9	—	7 12.4	7 20.8	7 31.0	0.3	0 19	—
1142	" 13	—	4 54.0	—	5 13.0	—	0 19	Small and doubtful
1143	" 20	—	6 7.7	6 11.2	6 19.0	—	0 12	Small.
1144	" 21	—	7 10.0	7 27.2	8 10.7	1.4	1 1	—
1145	" 21	—	8 55.8	9 2.7	9 17.0	0.3	0 21	—
1146	" 22	—	4 7.7	4 12.8	4 21.0	0.1	0 13	—
1147	" 23	—	8 0.2	8 7.7	8 28.8	0.3	0 29	—
1148	" 24	—	0 16.3	0 20.4	0 28.0	0.2	0 12	—
1149	" 24	—	1 0.6	1 5.7	1 21.2	0.3	0 21	—
1150	" 26	—	6 52.2	7 0.7	7 20.0	0.3	0 28	—
1151	" 28	—	6 41.6	6 53.7	7 14.4	0.6	0 33	—
1152	Oct. 2	—	1 15.0	—	1 28.0	—	0 13	Very small.
1153	" 3	—	14 21.2	14 25.2	14 40.7	0.1	0 20	—
1154	" 4	—	11 46.2	11 54.9	12 16.1	0.3	0 30	—
1155	" 5	—	21 56.2	21 59.7	22 14.8	—	0 19	Very small.
1156	" 6	—	21 44.3	21 49.6	22 8.0	0.4	0 24	—
1157	" 7	—	1 51.0	1 59.8	2 40.9	0.3	0 50	Much disturbance.
1158	" 10	—	15 39.4	15 47.0	15 59.3	0.2	0 20	—
1159	" 13	—	5 19.4	5 59.7	7 16.3	1.4	1 57	—
1160	" 14	—	15 6.3	15 15.0	16 17.7	0.6	1 11	—
1161	" 20	—	3 37.8	3 40.3	4 0.0	0.6	0 22	—
1162	" 20	—	6 34.4	6 37.8	6 53.0	0.5	0 19	—
1163	" 23	—	20 29.1	20 36.2	20 52.5	0.4	0 23	—
1164	" 24	—	21 32.8	21 40.0	21 57.4	0.4	0 25	—
1165	" 29	—	3 52.0	4 2.7	4 18.0	0.1	0 26	—
1166	Nov. 2	—	5 35.4	6 16.0	7 8.2	0.7	1 33	A second earth- quake? Max. 5h.48m.
1167	" 2	—	7 38.3	7 46.1	8 0.0	0.4	0 22	—
1168	" 6	7 28.3	7 32.5	8 0.0	8 54.2	1.6	1 26	—
1169	" 6	—	9 41.2	9 45.3	9 52.7	—	0 11	Minute.
1170	" 6	—	14 5.9	14 29.1	15 28.0	1.0	1 22	—
1171	" 6	—	23 41.0	23 46.7	23 59.0	0.1	0 18	—
1172	" 9	—	15 59.0	16 4.2	16 38.5	0.4	0 39	—
	" 10	—	—	20 0.0	—	—	—	Suspicious; needs confirmation.
1173	" 11	—	13 43.0	13 49.7	14 3.9	0.2	0 21	May be only one
1174	" 11	—	14 8.9	14 21.3	15 24.0	1.1	1 15	quake, but appa- rently two.
1175	" 17	—	7 26.2	7 34.5	8 2.0	0.2	0 36	—
1176	" 23	—	13 44.2	13 48.0	14 5.1	0.2	0 21	—

Register from Liverpool Observatory, Bidston—continued.

No.	Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
1177	Nov. 25	—	—	3 22.0	—	—	—	Small disturbance.
1178	" 27	—	10 45.3	10 52.4	11 2.0	0.1	0 17	—
1179	" 28	—	22 6.6	22 14.0	22 26.3	0.3	0 20	—
1180	" 30	—	22 7.4	22 14.0	22 49.3	0.3	0 42	—
1181	Dec. 10	—	—	—	7 30.0	—	—	—
1182	" 12	—	13 14.2	13 40.3	14 39.0	2.6	1 21	—
1183	" 12	—	14 43.0	14 46.1	15 8.2	0.2	0 25	—
1184	" 12	19 21.8	19 42.2	19 56.8	20 30.4	0.4	1 9	—
1185	" 13	—	—	8 26.0	—	—	doubtful	—
1186	" 16	—	16 14.7	16 20.3	16 27.8	0.1	0 13	—
1187	" 18	—	15 48.4	16 20.0	17 37.3	1.9	1 49	—
1188	" 22	—	2 31.8	2 36.7	2 47.4	0.2	0 16	—
1189	" 25	—	21 32.3	21 34.6	21 44.2	0.2	0 12	—
1190	" 28	—	4 22.8	4 30.4	6 3.7	15.0	1 41	—
1191	" 29	—	18 34.7	18 42.0	18 57.0	0.2	0 22	—
	" 30	—	22 56.9	23 2.5	23 42.0	0.1	0 45	—

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

Date	Com- mence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
1908							
July 1	H. M. 8 16.5	H. M. —	H. M. 8 26.5	H. M. 8 29.0	MM. 0.2	H. M. 0 12.5	—
" 8	13 2.0	—	13 5.0	13 21.5	0.4	0 19.5	—
" 13	—	—	21 21.0	—	—	—	Very small notch.
" 13	21 41.0	—	—	22 17.0	—	0 36	Small A.T's.
Aug. 4	2 22.0	—	—	2 26.0	—	0 4	A.T.!
" 9	19 13.5	—	—	19 16.5	—	—	Slight thickening.
" 14	1 5.0	—	1 32.0	1 53.5	0.4	0 48.5	—
" 17	11 7.0	11 33.5	12 2.0	13 33.0	1.6	2 26	—
" 20	10 12.5	10 29.8	10 32.5	11 22.5	2.4	1 10	—
" 22	19 51.2	—	—	20 0.0	0.2	0 8.8	—
" 29	18 28.0	—	18 30.0	18 50.0	0.3	0 22	—
Sept. 4	17 3.0	17 6.5	17 9.0	17 20.0	0.9	0 17	—
" 10	7 18.5	—	—	7 26.0	—	0 7.5	Perhaps A.T's.
" 21	7 3.0	7 43.0	7 51.5	9 13.5	0.7	2 10.5	—
" 23	7 57.0	—	8 5.5	8 6.0	0.2	0 9	—
" 23	23 53.5	—	—	23 56.0	—	0 2.5	Very slight tremors.
" 24	0 16.5	—	0 18.0	0 20.5	0.3	0 4	—
" 24	1 2.0	—	1 3.6	1 7.5	0.6	0 5.5	—
" 28	6 43.0	—	6 52.0	7 14.5	0.7	0 31.5	—
Oct. 13	5 19.0	5 29.0	6 0.5	6 36.0	1.1	1 17	—
" 14	15 7.5	—	15 13.0	15 54.0	0.5	0 46.5	—
" 20	3 35.5	—	3 47.0	3 57.5	0.5	0 22	—
" 20	6 33.0	—	6 43.5	6 49.0	0.3	0 16	—
" 23	20 30.0	—	20 35.5	20 58.0	0.3	0 28	—
" 24	21 29.5	—	21 38.5	21 59.0	0.6	0 29.5	—
Nov. 2	5 39.5	—	6 24.0	7 5.0	0.8	1 29.5	—
" 6	7 31.0	7 55.5	7 57.0	9 4.5	1.5	1 33.5	—
" 6	14 20.0	—	14 30.0	15 5.5	0.25	0 45.5	—
" 9	16 4.5	—	16 13.0	16 16.0	0.2	0 11.5	—
" 11	13 44.0	—	14 18.5	14 52.5	0.8	1 8.5	—

Register from Royal Observatory, Edinburgh—continued.

Date	Com- mence- ment	L.W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks
Nov. 22	H. M. 12h. to	H. M. Nov. 23, 9h.	H. M.	H. M.	MM.	H. M.	A.T's.
" 27	11h. to	Nov. 28, 10h.30m.					A.T's.
" 30	22 5.0		22 25.5	22 52.5	0.25	0 47.5	—
Dec. 12	13 15.0	13 36.5	13 38.0	14 44.5	2.8	1 29.5	—
" 12	19 57.0	—	—	20 21.0	—	0 24	Slight tremors, perhaps A.T's.
" 18	15 50.5	16 15.5	16 21.0	17 7.5	1.2	1 17	—
" 22	3 32.0	—	—	3 44.0	—	0 12	Small A.T's!
" 25	21 33.0	—	—	21 37.0	—	0 4	Slight thickening.
" 28	4 16.0	4 30.5	4 37.5	6 14.5	11.5	1 58.5	—
" 28	19h. to	Dec. 30, 6h.	—	—	—	—	A.T's.

1908, June 28. 1° of footscrew = 3.6mm.

Oct. 25. " = 3.5mm.

Dec. 24. " = 3.7mm.

Dec. 29. " = 3.45mm.

Mean = 3.56mm.

0°.537 = tilt of pillar corresponding to 1mm. at end of boom.

*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
1908								
435	July 8	H. M.	H. M.	H. M.	H. M.	MM.	H. M.	Thickening.
436	" 10	—	—	13 2.5	—	—	—	"
437	" 10	—	—	2 58.0	—	0.5	—	"
438	" 12	—	—	6 58.0	—	—	—	Doubtful.
439	" 26	—	—	2 59.0	—	—	—	Thickening.
440	" 26	—	—	13 39.0	—	—	—	"
441	" 26	—	—	17 13.0	—	—	—	"
442	" 26	—	—	18 32.0	—	—	—	"
443	Aug. 4	—	—	2 23.0	—	—	—	"
444	" 13	—	—	23 58.5	—	1.5	—	Tremors.
445	" 17	11 5.4	—	11 44.0	13 35.0	2.4	2 30	—
446	" 20	10 12.5	—	10 32.6	11 40.0	2.7	1 28	—
447	" 21	—	—	22 56.0	—	—	—	Thickening.
448	" 22	—	—	10 47.0	—	—	—	"
449	Sept. 4	17 2.0	—	17 7.8	17 25.0	0.8	0 23	—
450	" 7	—	—	14 55.0	—	—	—	Doubtful.
451	" 21	7 2.0	—	7 45.0	8 50.0	0.6	1 48	—
452	" 23	—	—	8 4.5	—	—	—	Thickening.
453	" 24	—	—	0 18.2	—	—	—	"
454	" 24	—	—	1 4.0	—	0.6	—	"
455	" 26	7 0.5	—	—	7 21.0	—	0 20	Thickening.
456	" 28	6 43.0	—	6 51.0	7 13.0	0.7	0 30	—
457	Oct. 6	—	—	18 50.0	—	—	—	Thickening.
				20 48.0	—	—	—	"

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Register from the Coats Observatory, Paisley—continued.

No.	Date	Commence- ment	L. W. Commence	Max.	End	Max. Ampli- tude	Duration	Remarks.
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
458	Oct. 7	—	—	0 31·0	—	—	—	Possible tremors.
	" 7	—	—	2 1·0	—	—	—	" "
	" 7	—	—	2 16·0	4 5·0	—	—	" "
	" 7	—	—	8 25·0	10 0·0	—	—	" "
	" 7	—	—	12 20·0	13 40·0	—	—	" "
	" 8	—	—	11 5·0	12 10·0	—	—	" "
459	" 13	5 18·5	—	6 1·0	8 25·0	0·8	3 7	" —
				6 5·5				
460	" 14	14 40(?)	—	15 18·5	16 3·0	0·7	1 23	—
461	" 18	—	—	0 27·0	—	—	—	Thickening.
	" 18	—	—	17 57·0	—	—	—	"
462	" 20	—	—	3 49·0	6 50·0	—	—	"
463	" 23	20 26·5	—	20 35·0	20 58·0	0·4	0 32	—
464	" 24	—	—	21 38·0	—	1·0	—	Tremors.
465	" 28	—	—	13 39·0	—	—	—	Thickening.
466	" 30	11 52·5	—	—	14 40·0	—	—	Thickenings at in- tervals.
467	Nov. 2	5 40·0	—	6 25·0	7 46·0	1·0	2 6	—
468	" 3	13 30·0	—	—	19 0·0	—	—	Thickenings at in- tervals.
469	" 6	7 30·5	—	8 8·5	8 54·0	1·0	1 24	—
470	" 6	14 28·5	—	14 38·0	15 5·0	0·3	0 37	—
471	" 6	—	—	23 47·0	—	—	—	Thickening.
472	" 9	16 0·0	—	16 12·0	16 28·0	—	0 28	"
473	" 11	13 54·0	—	14 24·0	14 58·0	1·1	1 1	—
474	" 18	6 25(?)	—	7 42·0	1 30·0	—	7 5	? Tremors.
				11 3·0				
475	" 22	—	—	16 (?)	—	—	—	Obscured by tre- mors.
476	" 24	—	—	6 45·0	—	—	—	Obscured by tre- mors.
477	" 24	—	—	12 (?)	—	—	—	Obscured by tre- mors.
478	Dec. 12	13 7·0	—	13 46·0	14 40·0	2·7	1 33	—
479	" 18	15 40·0	—	16 19·0	?	1·2	?	Tremors.
				16 21·0				
480	" 29	—	—	23 22·0	—	—	—	Thickening.

July 12, 18h., to July 15, 21h., film spoiled in development.
December 9 to December 29, signs of boom occasionally resting on clock-box.

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

No.	Date	Commence- ment	Max.	End	Max. Ampli- tude	Dura- tion	Remarks
1908							
235	July 3	H. M. 1 51.0	H. M. 1 51.50	H. M. 1 56.0	MM. 0.3	H. M. 0 5	—
237	" 13	21 40.32	21 51.0	22 0.0	0.6	0 19	—
240	" 23	18 49.24	18 50.40	18 58.20	1.0	0 9	—
242	Aug. 4	2 20.30	2 22.0	2 28.0	0.6	0 7	Algeria (Con- stantine).
243	" 6	9 34.48	9 36.12	9 42.20	0.7	0 7	—
	" 9	19 10.0	19 11.15	19 17.0	0.5	0 7	—
244	" 14	1 5.24	1 33.30	2 12.0	0.6	1 6	—
245	" 17	11 4.36	11 41.38	13 42.0	4.0	2 37	—
246	" 20	10 12.33	10 32.15	12 34.35	4.5	2 21	—
248	" 29	18 25.12	18 30.25	18 49.30	1.0	0 24	—
250	Sept. 4	10 3.12	10 7.23	10 28.0	2.2	0 24	—
251	" 11	16 15.0	16 17.6	16 20.38	0.6	0 5	—
252	" 13	18 18.5	18 30.26	18 54.0	0.9	0 35	—
253	" 19	11 41.12	11 45.20	12 5.10	0.7	0 23	—
255	" 28	6 39.6	6 48.0	7 26.34	1.0	0 47	—
259	Oct. 13	5 30.10	6 3.24	8 20.25	2.8	3 0	—
	" 14	15 10.36	15 14.4	16 33.0	1.0	1 22	—
			15 22.33				
260	" 20	3 38.15	3 42.30	4 13.0	0.6	0 34	—
	" 20	6 34.0	6 40.0	6 49.0	0.5	0 15	—
264	Nov. 6	7 29.0	7 59.24	9 30.0	3.0	2 1	—
266	" 11	13 44.0	14 21.28	15 3.12	1.4	1 19	Southern India.
268	" 19	16 42.0	16 44.50	16 50.32	0.8	0 8	—
270	" 30	22 12.0	22 23.30	23 15.12	0.7	1 3	—
271	Dec. 5	11 34.50	11 39.42	11 47.55	1.0	0 13	—
273	" 12	13 17.0	13 40.12	15 17.0	5.5	2 0	—
			13 47.0				
	" 12	19 33.4	20 4.15	20 29.0	0.7	0 57	—
274	" 14	11 15.0	11 40.34	12 6.12	1.4	0 51	—
275	" 18	15 56.0	16 13.6	17 6.10	4.0	1 20	—
	" 21	10 19.21	10 20.30	10 28.36	1.3	0 9	Many A.T's.
276	" 23	17 33.40	17 34.50	17 41.0	1.4	0 7	—
277	" 28	4 25.36	4 33.0	5 40.20	11.0	0 38	Southern Italy.

Boom period = 18 sec.

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Register from the Observatorio de Marina de San Fernando, Spain.
Director, Commodore T. DE AZCÁRATE.

No.	Date	Com- mence- ment	L.W. Commence	Max.	End	Duration	Max. Ampli- tude	Remarks
1908								
896	July 8	H. M. 13 11.0	H. M. 13 11.0	H. M. 13 14.5	H. M. 13 41.0	H. M. 0 30.0	MM. 0.45	Small movements.
897	" 12	2 1.8	—	—	—	2 2.5	—	Tremors.
899	" 13	21 42.8	21 42.8	21 54.2	22 0.3	0 44.8	0.90	—
902	" 26	18 21.2	—	—	—	0 25.0	—	Tremors.
903	Aug. 4	2 17.1	2 17.1	2 19.8	2 24.3	0 7.2	0.25	Very small move- ments.
905	" 17	11 4.8	11 19.8	{ 11 21.0 11 32.6 }	{ 11 41.0 — }	2 30.5	{ 1.00 1.15 }	—
907	" 19	1 53.1	—	—	—	5 34.6	—	Tremors.
908	" 20	10 23.8	10 39.0	10 40.3	10 42.8	0 51.3	0.90	—
911	" 29	18 23.6	18 26.1	18 26.9	18 28.6	0 11.0	1.00	—
915	Sept. 4	17 1.1	17 2.8	17 4.1	17 6.3	0 15.2	2.50	—
924	" 23	23 1.9	—	—	—	8 2.2	—	Tremors.
932	Nov. 2	7 14.9	—	—	—	0 40.0	—	"
933	" 6	7 34.4	8 1.7	8 5.9	8 21.4	1 2.7	1.70	—
934	" 6	14 31.8	—	—	—	0 32.1	0.35	—
935	" 6	23 34.3	—	—	—	7 24.8	—	Tremors.
938	" 11	14 25.9	14 25.9	14 39.4	14 57.9	0 32.0	0.60	—
941	" 19	5 5.9	—	—	—	4 5.5	—	Tremors.
950	Dec. 12	13 17.6	13 44.5	13 50.0	13 58.7	1 46.4	2.50	—
952	" 18	15 56.9	16 9.1	16 11.4	16 13.6	1 3.8	2.40	—
957	" 25	14 17.7	14 17.7	14 18.6	14 19.8	0 2.1	0.70	—
958	" 28	4 24.9	4 28.4	{ 4 28.4 4 29.4 4 32.9 }	{ 4 58.4 — — }	1 42.2	{ 10.00 8.00 8.00 }	Sicily, Calabria. The tremors be- gan at 20h.22.4m. of the 27th, and followed after the earthquake till 9h.47.9m.
959	" 29	23 20.7	23 20.7	23 22.7	23 24.9	0 4.2	0.80	—

1mm. = 0".40.

Period = 18s.

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

No.	Date	Com- mence- ment	L.W. Commence	Max.	L.W. End	End	Duration	Am- plit- ude	Remarks
1908									
131	July 3	H. M. 12 43.0	H. M. —	H. M. 12 46.5	H. M. —	H. M. 12 55.0	H. M. 0 13.0	MM. 1.0	—
132	" 7	4 39.0	—	?	—	—	—	—	Tremors lasting till the 8th.
133	" 13	21 27.5	—	21 54.5	—	22 18.5	0 39.5	0.75	—
135	" 26	16 20.0	—	?	—	?	—	—	—
137	Aug. 4	2 15.0	—	2 22.5	—	2 33.5	0 18.5	0.5	—
138	" 9	?	—	19 3.0	—	?	—	—	Trace only.
139	" 14	1 18.0	—	1 56.0	—	?	—	0.5	—
140	" 20	10 1.5	—	10 31.0	—	11 22.5	1 21.0	1.0	Distinct.
141	" 22	12 36.5	—	13 10.5	—	?	—	0.5	—
142	" 29	18 30.0	—	18 42.0	—	19 20.5	0 48.0	0.5	—
143	Sept. 4	17 1.7	—	17 15.5	—	17 51.5	0 49.7	1.5	—