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OBSERVATORY DEPARTMENT
DEC 9 1905
NATIONAL PHYSICAL LABORATORY

British Association for the Advancement of Science.

Circular No. 12, *issued by the Seismological Committee*, Professor J. W. Judd, *C.B.*, *F.R.S.* (*Chairman*), Mr. John Milne, *F.R.S.*, *Shide, Isle of Wight* (*Secretary*).

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

The following registers are continuous with those published by the Seismological Investigation Committee in their first eleven circulars and in the Reports of the Association, 1896 to 1899.

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If observers at these and other places will kindly send a copy of the register, together with copies of their more important seismograms, to the Secretary of the Seismological Investigation Committee, British Association, Burlington House, London, W., as early as possible after June 30, and again after December 31 of each year, the interval of time which must elapse before they receive copies of the registers of co-workers in various parts of the world will be considerably reduced.

The time employed is Greenwich mean time (civil), expressed in hours, minutes, and in decimals of minutes. 24 or 0 hours = midnight.

Amplitude indicates half of the complete range of the maximum motion and is expressed in millimetres. Values less than 1 millimetre refer to the thickening of the line and indicate half its width.

As 1° turn of the calibrating screw in the bed-plate of the instrument causes a tilt of 1″.9, and as this is accompanied by a measurable displacement of the outer end of the boom, it is easy to determine the angular value corresponding to a 1 millimetre displacement. This quantity should be stated at the end of each register.

II. *Registers.*

The Register from Shide, Newport, Isle of Wight, England.
Observer, JOHN MILNE; *Assistant*, SHINOBU HIROTA.

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

A. Period 17 seconds. 1° turn = 4 mm.
B. Period 25 seconds. 1° turn = 9 mm.
C. Period 20 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

No.	Date	P.T. Commence	Max.	Max. Amplitude	Duration	Remarks
			1905.			
		H. M.	H. M.	MM.	H. M.	
946	Jan. 3	8 6·0	—	0·2	0 4	B and C. N on A.
947	,, 3	9 23·6	—	0·2	0 4	B. Not on A.
		9 19·3	—	0·2	0 2	C.
948	,, 9	6 37·6	—	0·4	0 6	B. Tremors pr ent.
		6 38·6	—	0·5	0 7	C. Not on A.
949	,, 13	14 15·5	14 35·2	3·0	1 5	B. Tremors pr ent.
		14 15·5	14 39·3	3·0	1 20	C. Tremors pr ent. Not on
950	,, 13	19 16·6	—	0·5	0 15	B. Tremors pr ent.
		19 18·7	—	0·4	0 25	C. Tremors pr ent. Not on
951	,, 17	9 1·7	—	0·2	0 4	B.
		9 3·7	—	0·2	0 4	C. Not on A

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

No.	Date	P.T. Commence	Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
952	Jan. 20	2 41·1	2 45·0	1·0	0 10	A. Tremors present.
			2 48·0	0·1	0 6	B. Tremors present.
			2 44·9	0·7	0 10	C. Tremors present.
953	,, 20	18 19·0	18 46·0	0·5	0 46	A.
		18 27·3	18 31·5	0·4	0 30	B.
		18 28·3	18 37·6	0·4	0 25	C.
954	,, 20	23 37·0	—	0·2	0 17	A.
		23 32·5	—	0·3	0 10	B.
		23 32·5	—	0·2	0 10	C.
955	,, 22	3 4·3	3 53·0	4·0	2 10	B. A not working.
		3 9·5	3 50·9	4·0	2 10	C.
956	,, 29	12 45·1	—	0·7	0 8	B. Not on A.
		12 44·1	12 46·2	1·0	0 13	C.
957	,, 31	9 49·6	—	0·2	0 12	A. Not on B and C.
958	Feb. 5	7 46·3	—	0·2	0 5	A. Not on B and C.
959	,, 7	20 56·0	20 59·0	0·5	0 12	A. Not on B and C.
960	,, 13	6 8·1	6 39·1	1·2	?	B. A not working.
		6 8·1	6 45·3	1·8	1 45	C.
961	,, 14	8 47·3	9 35·9	4·0	?	B. A not working.
		8 48·3	9 40·1	4·0	?	C.
962	,, 15	7 41·5	—	0·2	0 32	B. Not on A.
		7 54·5	—	0·2	0 3	C.
963	,, 17	?	12 26·8	2·0	?	B. Not on A.
		12 11·1	12 26·8	4·0	1 12	C.
964	,, 19	4 59·4	6 1·5	0·7	3 10	B. Tremors present.
		4 39·8	{ 6 5·6 6 12·9	1·5	3 26	C. Tremors present. Tremors on A.
965	,, 26	3 46·4	—	0·2	0 7	B. Not on A.
		3 49·5	—	0·2	0 4	C.
966	,, 27	18 8·9	18 51·0	0·7	>1 30	B. Not on A.
		18 2·8	{ 18 50·0 11 0·2	0·5	>1 30	C.
967	March 4	16 33·2	17 17·3	1·0	1 28	B. Not on A.
		16 41·4	17 20·4	2·0	1 25	C.
968	,, 4	19 20·9	19 50·7	0·7	1 10	B. Not on A.
		19 28·1	19 51·7	1·0	1 10	C.
969	,, 4	23 46·0	24 34·6	2·0	2 12	B. Not on A.
		23 47·0	24 38·7	5·0	2 20	C.
970	,, 6	2 13·6	—	0·2	0 8	B. Not on A.
		2 13·6	—	0·2	0 6	C.
971	,, 6	16 5·5	—	0·2	0 4	B and C. Not on A.
972	,, 7	7 32·3	—	0·2	0 13	B. Not on A and C.
973	,, 14	10 57·3 or 11 16·3	11 17·8	0·5	22 or 4	B. A not working.

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

No.	Date	P.T. Commence	Max.	Max. Amplitude	Duration	Remarks.
		H. M.	H. M.	MM.	H. M.	
		11 12·2	11 14·2	0·2	0 4	C.
974	Mar. 16	12 46·9	—	0·2	0 2	A.
		12 15·1	12 29·6	0·3	0 22	B.
		12 15·9	—	0·2	0 19	C.
975	,, 16	13 54·7	—	0·2	0 3	A.
		14 9·7	—	0·2	0 3	
		14 42·6	14 48·0	0·2	0 12	
		14 39·1	14 51·4	0·2	0 17	B.
		14 39·1	14 47·3	0·2	0 13	C.
976	,, 18	10 40·3	—	0·2	0 3	A.
		13 47·0	—	0·2	0 35	A.
977	,, 19	0 17·2	1 40·2	2·5	6 0 abt.	A.
		0 17·6	1 25·8 1 51·5	1·5 2·0	3 0	B. Tremors at end.
		0 17·6	1 20·7 1 55·6	3·0 2·5	3 0	C. Tremors at end.
978	,, 21	16 4·1	—	0·2	0 3	B and C, but with amp. for C, 0·1. Not on A.
979	,, 22	12 11·4	—	0·2	0 3	B.
		12 12·4	—	0·1	0 3	C.
980	,, 22	15 50·7 ?	16 35·2	1·5	4 0 abt.	B. Second max 2h.30m. later
		15 42·4 ?	16 34·2 16 38·3	2·0	4 0 abt.	C. Second max 2h.15m. later Tremors on A, B, and C
981	,, 30	11 25·7	—	0·2	0 9	B and C, but amp. for C 0·1.
982	April 4	1 1·0	1 30·0	15·0	3 55	B. Second max 1h.54m. later
		1 6·2	1 22·7	13·0	3 45	C. Second max 2h.9m. and 2h.14m. later
983	,, 4	10 9·4	10 35·2	0·4	1 20	B.
		10 13·5	10 34·2	0·5	0 55	C.
984	,, 10	12 54·6	13 30·0	0·5	0 29	A.
		12 53·0	—	0·2	0 16	B.
		12 53·5	—	0·3	0 20	C.
985	,, 18	16 41·5	—	0·2	0 4	B and C. Not on A.
986	,, 19	12 57·0	13 52·9	1·0	?	B. Not on A.
		12 57·0	13 49·8	2·0	2 42	C.
987	,, 22	17 31·2	—	0·2	0 3	B and C.
988	,, 24	9 2·3	—	0·2	0 15	B.
		8 58·6	—	0·3	0 20	C.
989	,, 25	10 36·3	10 45·5	0·3	0 45	B and C, with amp. for 1 0·2.
990	,, 26	22 4·8	22 35·1	1·0	0 48	A.
		22 6·4	22 36·1	1·5	1 10	B.
		22 6·4	22 30·0	0·5	1 10	C.
991	,, 27	10 11·7	—	0·2	0 2	A only.
992	,, 28	17 48·9	—	0·2	0 3	C only.
993	,, 29	1 50·8	1 51·6	1·0	0 7	A.
		1 51·0	—	0·7	0 55	B.

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

No.	Date	P.T. Commence	Max.	Max. Amplitude.	Duration.	Remarks.
		H. M.	H. M.	MM.	H. M.	
		1 51·0	—	0·7	0 12	C.
994	April 30	16 19·3	16 25·3	0·5	0 17	A.
		16 20·0	16 25·2	1·0	0 27	B and C. Tremors on B.
995	May 9	7 17·3	—	0·2	0 22	A.
		7 24·5	—	2·0	0 45	B. Tremors.
		7 25·5	—	1·0	0 45	C. Tremors.
996	,, 11	17 42·0	18 5·9	> 1·0	0 54	B and C. Not on A.
997	,, 12	3 32·8	3 36·0	0·5	0 8	B. Not on A.
		3 32·8	—	0·2	0 5	C.
998	,, 12	16 18·2	—	0·2	0 7	B. Not on A.
		16 15·2	—	0·2	0 7	C.
999	,, 12	17 51·4	—	0·2	0 10	B and C. Not on A.
1000	,, 17	14 18·4	—	0·2	0 5	B and C.
	,, 18	13 58·9	15 5·0	0·7	2 36	A.
1001	,, 18	13 43·2	14 50.4 } 14 55·5 }	1·5	2 5	B.
		14 8·0	15 1·8	3·0	2 5	C.
1002	,, 18	17 38·0	—	0·2	0 3	B and C.
1003	,, 20	5 55·9	—	0·2	1 25	A.
1004		11 23·5	—	0·2	0 12	A.
		11 23·6	—	0·5	0 35	B.
		11 23·6	—	0·3	0 10	C.
1005	,, 27	14 55·7	—	0·2	0 30	B.
		15 17·5	—	0·2	0 4	C.
1006	,, 29	8 32·0	—	0·2	B 0 10 C 0 4	B and C.
1007	,, 30	14 48·6	15 29·9	0·4	0 55	B.
		15 21·7	15 50·8	0·2	0 35	C.
1008	,, 31	18 59·0	19 15·5	0·5	0 35	B.
		19 7·2	19 16·3	1·0	0 32	C.
1009	June 1		4 51·7	1·0		B. With tremors.
		4 45·5	4 51·7	1·5	0 40	C. With tremors.
1010	,, 2	6 3·1	6 37·2	1·0	?	B. With tremors.
		6 3·1	6 37·2	2·0	1 30	—
1011	,, 2	13 8·8	—	0·2	0 3	A.
1012	,, 2	14 46·8	—	0·2	0 3	A.
1013	,, 2	18 51·0	—	0·3	0 32	A.
		19 1·1	—	0·2	0 5	B and C.
1014	,, 3	4 47·1	5 22·2	0·5	>1 0	A.
		5 17·7	5 21·8	0·5	0 20	B and C.
1015	,, 4	7 58·0 } 8 19·7 }	—	0·2	0 3	B and C.
1016	,, 7	20 44·6	—	0·2	0 3	B and C.
1017	,, 8	12 42·6	—	0·3	0 3	B.
		12 44·6	—	0·2	0 3	C.
1018	,, 9	11 59·2 and				
		12 51·6	13 46·0	0·2	>1 0	A.
		13 7·5	13 36·5	0·7	1 30	B.
		13 7·5	13 43·8	0·5	1 26	C.
1019	,, 11	8 28·3	8 31·0	0·3	0 13	A.

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

No.	Date	P.T. Commence	Max.	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	MM.	H. M.	
1020	June 12	5 27·3	6 53·0	0·5	2 15	A.
		5 28·3	6 10·0	0·4	1 50	B and C, amp. for B, 0h. 3m.
			6 46·5			
1021	,, 14	10 53·2	13 24·0	1·5	3 53	A.
		12 4·5	13 8·0	1·0	1 50	B.
		12 4·5	13 0·8	2·0	1 50	C.
1022	,, 23	13 39·1	—	0·2	0 4	B and C.
1023	,, 23	16 3·6	—	0·2	0 3	C only.
1024	,, 26	23 54·8	—	0·2	0 2	B.
		23 56·9	—	0·2	0 2	C.
1025	,, 30	18 31·0	—	0·2	0 45	A.
		17 26·0	18 29·2 and 18 58·3	1·0	2 5	B.
		17 26·0	18 31·2 and 19 2·5	2·0	2 22	C.
1026	,, 30	20 46·9	—	0·2	0 17	A.
		20 33·3	20 49·0	2·0	0 40	B and C.

Register from National Physical Laboratory, Kew Observatory. Director R. T. Glazebrook, *D.Sc., F.R.S.; Superintendent,* C. Chree *LL.D., F.R.S.; Observer,* E. G. Constable.

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks.
			1905.			
		H. M.	H. M.	MM.	H. M.	
583	Jan. 3	9 26·2	—	0·25	0 3	—
584	,, 9	6 41·8	—	0·25	0 7	—
585	,, 12	9 7·5	—	0·25	0 4	—
		9 41·2	—	0·4	0 3	—
586	,, 13	19 23·0	—	0·25	0 9	Ill defined.
587	,, 20	2 43·7	2 46·3	0·6	0 7	—
588	,, 20	18 43·2	18 49·5	0·4	0 15	A.T. present.
589	,, 20	23 35·5	—	0·25	0 7	—
590	,, 22	3 8·9	3 59·3	1·5	1 32	—
591	,, 23	14 49·2	14 51·7	0·4	0 6	Seismic character doubtful
592	,, 29	12 47·0	12 48·1	0·8	0 10	—
593	Feb. 13	6 40·7	6 57·2	0·7	0 53	—
594	,, 14	8 45·0	—	0·25	0 7	—
		9 10·5	9 40·6	7·3	1 56	—
595	,, 17	12 11·7	12 30·2	2·0	0 55	—
596	,, 27	18 8·3	—	0·25	0 9	—
597	,, 27	18 50·2	18 54·0	0·5	0 18	—
598	March 4	Two separate disturbances shown, with a max. amplitude of 0·9 mm., but the times cannot be given, as paper jammed frequently in rollers.				

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Register from National Physical Laboratory, Kew Observatory—continued.

No.	Date	Commencement	Max.	Max. Amplitude.	Duration	Remarks.
		H. M.	H. M.	MM.	H. M.	
599	Mar. 17	22 28·5	22 34·0	0·7	0 17	—
600	,, 19	0 21·1	{ 1 35·2 / 1 59·7 }	1·5	2 28	P.T. amp. small.
601	,, 22	3 59·2	4 34·3	1·6	2 36	Movements after 5h. very small.
602	,, 22	16 55·3	—	0·25	0 8	—
603	April 4	1 0·2	1 29·2	15·3	3 48	(Indian earthquake.)
604	,, 4	10 30·0 ?	—	—	0 10 ?	Record masked by changing of paper.
605	,, 10	12 55·0	—	0·25	0 8	—
606	,, 19	13 17·5	14 9·5	0·7	1 22	P.T. amp. small.
607	,, 24	9 3·2	9 10·0	0·25	0 15	Ill defined.
608	,, 25	10 44·5	—	0·25	0 15	Ill defined.
609	,, 26	22 6·2	22 41·1	0·6	0 47	—
610	,, 29	1 51·1	1 51·9	0·9	0 5	Practically no P.T.
611	,, 30	16 18·8	—	0·4	0 15	—
612	May 9	7 12·6	7 27·9	0·8	0 42	—
613	,, 11	17 42·5	18 19·0	0·5	0 50	Commencement ill defined.
614	,, 12	3 38·0	—	0·25	0 8	—
615	,, 18	14 3·3	15 12·2	0·7	2 12	A long series of small movements.
616	,, 31	19 15·4	19 20·5	1·0	0 19	P.T. very short.
617	June 1	4 51·9	4 53·7	1·1	0 23	—
618	,, 2	6 2·2	6 30·3	1·3	1 0	P.T. amp. small.
619	,, 3	5 22·3	—	0·4	0 5	—
620	,, 9	13 37·0	—	0·2	0 15	A slight broadening of the line.
621	,, 12	6 36·7	—	0·3	0 32	—
622	,, 14	12 13·8	13 6·2	1·0	1 43	—
623	,, 30	18 4·0	19 8·4	1·4	1 38	Commencement ill defined.
624	,, 30	20 47·4	20 54·0	1·0	0 27	—

Mean scale value 1mm. = 0″·55 throughout.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1905				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
599	Jan. 8	—	12 3·7	—	12 9·0	—	0 5	Small
600	" 9	—	6 35·4	6 43·7	7 1·0	0·2	0 26	End uncertain
601	" 13	13 57·7	14 27·7	14 38·1	15 47·3	0·7	1 50	—
602	" 13	—	19 19·8	19 27·7	19 46·9	0·5	0 27	—
603	" 17	—	11 26	—	11 44	—	0 18	Small: possibly A.T
604	" 20	—	2 38·6	2 48·7	3 20·0	0·4	0 41	! Cornwall, Redruth
605	" 20	—	18 28·6	18 42·0	19 26·3	0.6	0 58	—
606	" 22	—	3 1·1	3 44·9	5 23·0	2·1	2 22	—
607	" 28	—	10 40·0	10 43·6	10 54·2	—	0 14	Small
608	" 29	—	11 42·0	11 45·4	11 59·0	0·8	0 17	—
609	" 31	—	10 46·2	10 50·9	10 56·8	0·4	0 11	—
610	Feb. 2	—	21 56·8	22 1·4	22 13·0	—	0 16	Small
611	" 4	—	7 32·0	7 38·5	7 45·6	0·1	0 14	—
612	" 6	—	22 53·0	22 58·3	23 5·0	0·2	0 12	—
613	" 9	—	—	15 32·0	—	—	—	Possibly insect.
614	" 13	—	6 29·3	6 45·0	7 35·2	0·6	1 6	Probably two disturbances.
615	" 14	—	0 27·0	0 37·2	0 48·3	0·3	0 21	—
616	" 14	—	9 7·7	9 41·5	12 5·3	3·6	2 58	—
617	" 14	—	12 49·2	12 55·7	13 6·9	0·2	0 18	Perhaps part of previous shock.
618	" 15	—	2 59·3	—	3 16·2	—	0 17	Small
619	" 16	—	8 54·9	—	9 1·8	0·2	0 7	—
620	" 17	—	12 5·7	12 29·2	13 50·4	2·0	1 46	—
621	" 18	—	18 54·9	19 10·0	19 28·0	0·3	0 33	—
622	" 26	—	3 48·0	3 55·5	4 27·7	0·2	0 40	Possibly A.T.
623	" 27	—	18 6·1	18 9·3	19 36·0	0·7	1 30	Possibly A.T.
624	Mar. 4	—	17 4·7	17 14·2	18 12·2	0·6	1 8	—
625	" 5	23 40·2	0 23·3	0 32·9	2 8·3	1·1	2 48	—
626	" 6	—	2 9·4	2 17·3	2 42·0	0·5	0 33	—
627	" 11	—	10 57·2	—	11 6·1	—	0 9	Small
628	" 14	—	11 4·9	11 21·3	11 35·0	0·2	0 30	—
629	" 17	—	22 18·3	22 31·7	22 54·8	0·6	0 37	—
630	" 19	0 22·2	1 8·0	1 37·7	3 27·5	2·2	3 5	—
631	" 22	—	4 0·5	4 35·2	5 49·3	1·5	1 49	Perhaps one disturbance.
632	" 22	—	6 7·8	6 21·0	6 56·9	0·9	0 49	
633	" 24	—	9 45·0	9 51·4	10 0·9	0·3	0 16	—
634	Apr. 4	—	0 58·8	1 30·6	5 21·0	11·6	4 22	—
635	" 4	—	10 31·7	10 36·3	10 45·4	—	0 14	Small
636	" 7	—	5 22·8	—	5 28·0	—	0 5	Small
637	" 10	—	12 52·2	12 55·5	13 8·2	0·4	0 16	—
638	" 14	—	1 0·7	—	1 8·0	—	0 7	Small
639	" 19	13 10·3	13 53·0	14 3·3	14 55·0	1·1	1 45	—
640	" 24	—	8 52·2	9 3·0	9 17·3	0·3	0 25	—
641	" 25	—	10 42·0	10 49·1	11 3·3	0·2	0 21	—
642	" 26	—	22 1·4	22 30·7	23 11·8	0·6	0 10	—
643	" 30	—	16 13·9	16 21·2	16 38·7	0·4	0 25	—
644	May 2	—	17 51·8	17 58·7	18 9·0	—	0 17	Small
645	" 9	—	7 11·8	7 33·2	7 58·6	0·6	0 47	—
646	" 11	—	17 32·0	17 41·1	18 36·5	0·5	1 4	—
647	" 12	—	3 31·9	3 36·1	3 50·4	0·2	0 19	—
648	" 12	—	16 19·8	16 24·4	16 32·9	0·3	0 13	—
649	" 18	14 9·0	14 48·1	15 6·0	16 18·3	1·4	2 9	—
650	" 25	—	4 31·0	—	4 39·9	—	0 9	Small
651	June 1	—	4 45·8	4 53·3	5 15·6	0·8	0 30	—
652	" 2	—	6 2·7	6 35·9	7 5·3	1·0	1 3	—
653	" 3	—	5 19·2	5 26·0	5 40·1	0·4	0 21	—
654	" 6	—	2 6·0	—	2 13·3	—	0 7	Possibly insect.
655	" 7	—	6 28·5	6 34·8	6 43·3	0·3	0 15	—
656	" 9	—	13 11·0	13 43·6	14 23·2	0·3	1 12	—
657	" 12	—	6 30·7	6 50·5	7 24·1	0·2	0 53	—
658	" 14	12 14·0	12 51·9	13 0·7	13 57·2	0·7	1 43	—
659	" 19	—	1 53·8	1 58·0	2 16·3	0·2	0 23	—
660	" 26	—	23 32·6	23 57·0	0 4·3	0·2	0 12	—
661	" 30	17 27·0	18 4·3	18 36·0	19 56·7	1·0	2 30	—
662	" 30	—	20 46·2	20 52·2	21 18·0	0·8	0 32	—

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Register from Royal Observatory, Edinburgh.
Director, Dr. R. Copeland. *Observer*, Thomas Heath.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
				1905				
		H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
312	Jan 6-11	—	—	—	—	—	—	A.T.s, very frequent.
313	„ 13	14 25·0	—	14 47·0	15 13·0	0·2	0 48·0	—
314	„ 16-18	—	—	—	—	—	—	A.T.s, frequent and strong.
315	„ 20	2 41·0	2 46·5	2 49·5	2 58·0	0·5	0 17·0	—
316	„ 20-21	—	—	—	—	—	—	Many A.T.s.
317	„ 22	3 2·5	3 42·0	3 43·5	4 35·0	0·9	1 32·5	—
318	„ 27	11 27·5	—	—	11 29·5	—	0 2·0	Slight tremor.
319	„ 29	12 42·0	—	12 43·5	12 53·0	0·9	0 11·0	—
320	„ 31	—	—	—	—	—	—	A.T.s.
321	Feb. 14	9 6·5	9 29·0	9 42·0	10 57·0	4·0	1 50·5	—
322	„ 17	12 11·5	12 24·0	12 35·0	13 21·5	1·0	1 10·0	—
323	„ 19-20	—	—	—	—	—	—	Frequent A.T.s.
324	„ 19	5 30·0	—	7 2·5	8 18·0	0·4	2 48·0	Perhaps A.T.s.
325	„ 26	—	—	—	—	—	—	Occasional A.T.s.
326	„ 27	18 39·0	—	19 3·5	19 22·0	0·2	0 43·0	—
327	March 4	17 5·5	—	17 18·0	17 36·0	0·2	0 30·5	—
329	„ 4	19 45·0	—	19 52·5	20 4·0	0·2	0 19·0	—
328	„ 4-5	23 50·0	1 35·0	1 41·5	2 59·5	0·5	3 9·5	—
330	„ 6	2 13·0	2 18·0	2 21·0	2 34·5	0·3	0 21·5	—
331	„ 12	—	—	—	—	—	—	Small A.T.s
332	„ 17	22 25·5	—	22 26·0	22 36·0	0·2	0 10·5	—
333	„ 19	0 21·5	1 27·5	1 45·0	2 50·0	0·7	2 28·5	—
334	„ 22	3 59·5	4 32·0	4 35·5	5 5·0	2·0	1 5·5	—
335	„ 28	0 5·0	—	0 6·5	0 8·5	0·2	0 3·5	Perhaps A.T.
336	April 4	1 0·0	1 8·0	1 31·5	4 43·0	16·0	3 43·0	—
337	„ 10	12 51·3	—	13 0·5	13 10·0	0·4	0 18·7	—
338	„ 14	1 0·2	1 1·0	1 1·7	1 6·0	0·5	0 5·8	—
339	„ 19	13 24·0	—	14 2·5	14 52·0	0·2	1 28·0	Zigzag line.
340	„ 26	22 6·0	22 8·8	22 9·2	23 8·5	0·3	1 2·5	Second max. 22h. 22·0m.
341	„ 29	1 53·0	—	1 55·0	1 58·5	0·5	0 5·5	—
342	„ 30	16 20·0	16 25·0	16 29·0	16 35·0	0·5	0 15·0	—
343	May 9	7 18·5	—	7 29·0	7 48·0	0·3	0 29·5	—
344	„ 18	14 17·5	—	15 7·0	16 8·0	0·5	1 50·5	—
345	„ 20-21	18 32·0	—	—	11 57·0	—	17 25·0	Trace notched irregularly.
346	„ 31	19 12·7	19 16·0	19 24·0	19 40·0	0·7	0 27·3	—
347	June 1	4 52·0	4 54·0	4 57·5	5 18·5	0·8	0 26·5	—
348	„ 2	6 21·0	—	6 35·0	6 59·5	0·3	0 38·5	—
349	„ 3	5 20·0	—	5 20·5	5 38·0	0·3	0 18·0	—
350	„ 6	2 9·0	—	—	2 11·0	0·25	0 2·0	—
351	„ 7	3 35·0	—	—	9 30·0	—	5 55·0	Wavy line.
352	„ 14	12 8·5	—	13 29·5	13 58·0	0·5	1 49·5	—
353	„ 23	13 41·0	—	13 42·5	13 44·0	0·3	0 3·0	—
354	„ 30	17 56·5	—	19 10·0	19 47·0	0·5	1 50·5	—
355	„ 30	20 46·5	—	20 50·5	21 11·5	0·6	0 25·0	—

1904, Dec. 30. 1° of footscrew = 3·55 mm. at end of boom.
1905, April 7. 1° of footscrew = 3·21 mm. at end of boom.
„ May 31. 1° of footscrew = 3·42 mm. at end of boom.

Mean = 3·39 mm.

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

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

No.	Date	*P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
				1905				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
195	Jan. 20	2 42	2 47·5	2 54	3 5	0·5	0 23	—
196	„ 29	12 42·5	12 43·2	12 44	12 50·5	1·4	0 8	—
197	Feb. 14	9 5	—	9 48	11 34	2·4	2 29	—
198	„ 17	12 3·5	—	12 30·6	14 0	2·0	1 56	—
199	„ 27	—	—	19 0·8	—	0·5	—	Doubtful.
200	March 5	0 20·5	—	0 37·8	1 50	0·4	1 30	Commencement doubtful.
201	„ 17	22 19·5	22 25·8	22 30·5	?	0·3	?	—
202	„ 22	3 57·5	—	4 35·5	5 45	1·2	1 48	—
203	April 4	1 0·4	1 8·6	1 30·7	4 40	>14·0	3 40	—
204	„ 6	—	—	19 52	—	—	—	Doubtful.
205	„ 10	12 54·5	—	13 1	13 5	0·2	0 11	—
206	„ 14	—	—	1 1·8	—	0.3	—	—
207	„ 23	—	—	11 41·5	—	—	—	Thickening.
208	„ 26	22 7	—	22 10	22 55	0·3	0 48	P.T. may be earlier
209	„ 29	—	—	1 55	—	0·5	—	—
210	„ 30	16 21	16 26	—	16 42	0·3	0 21	—
211	May 9	7 24	—	—	7 42	—	0 18	Thickening.
212	„ 11	17 38	—	18 18	—	—	—	Thickening.
213	„ 12	—	—	16 29	—	—	—	Thickening.
214	„ 18	14 12	—	—	16 24	—	—	Thickening.
215	„ 31	19 7·8	19 8·4	19 25	19 45	1·0	0 37	—
216	June 1	4 51·5	4 54·5	4 58·2	5 20	0·6	0 28	—
217	„ 2	6 2	6 27·5	6 32	6 52	0·2	0 50	Faint at 8 58.
218	„ 3	5 20	5 29	5 30	5 50	0·4	0 30	—
219	„ 14	12 13·2	—	—	14 0	—	1 46	Thickening.
220	„ 18	0 1	—	—	0 20	—	0 19	Thickening.
221	„ 23	—	—	12 33·5	—	—	—	Thickening.
222	„ 23	—	—	13 42	—	0·4	—	—
223	„ 23	—	—	16 6·5	—	—	—	Thickening.
224	„ 30	—	—	19 0	—	—	—	Doubtful; masked by tremors.

Tremors are still frequent, summer and winter.
A 4° turn of calibrating screw = 14 mm. displacement of boom. 1 mm. = 0″·55.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
				1905				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
347	Jan. 1	7 25·0	—	—	—	—	2 42·0	Very small movements.
348	„ 2	2 50·0	6 32·0	8 22·5	9 13·0	1·0	8 53·0	—
349	„ 2	21 40·6	—	—	—	—	12 24·0	Very small movements.
350	„ 4	1 8·6	—	—	—	—	9 16·0	Very small movements.
351	„ 7	4 9·5	—	—	—	—	6 15·0	Tremors.
352	„ 8	5 24·5	—	—	—	—	3 0·0	Tremors.
353	„ 9	—	6 39·5	6 41·5	6 43·0	0·6	0 3·5	—
354	„ 9	14 35·5	15 7·5	15 9·5	15 12·5	2·0	1 10·0	—
355	„ 10	4 54·5	—	—	—	—	3 21·0	Tremors.
356	„ 11	0 45·5	—	—	—	—	8 46·0	Tremors.
357	„ 12	8 24·5	—	—	—	—	1 40·0	Very small movements.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
358	Jan. 13	13 54·4	14 35·4	14 39·4	14 52·9	2·0	1 33·0	—
359	" 13	19 13·4	19 26·4	19 29·4	19 35·4	0·7	0 32·5	—
360	" 17	17 9·3	—	—	—	—	16 30·0	Tremors.
361	" 19	4 0·2	—	—	—	—	3 51·0	Tremors.
362	" 19	22 42·3	—	—	—	—	—	—
	" 20	—	2 42·3 8 30·3	2 46·8 8 43·3	2 48·3 8 59·3	0·5 0·6	11 22·0	—
363	" 20	18 19·7	18 35·2	18 38·2	18 40·7	1·3	0 46·5	—
364	" 22	1 51·2	3 39·2	3 56·2	4 23·2	5·0	3 38·0	—
365	" 28	7 33·0	—	—	—	—	1 13·0	Very small movements.
366	" 28	23 43·0	—	—	—	—	7 8·0	Very small movements.
367	" 29	11 56·0	12 46·5	12 51·0	12 52·0	0·5	1 32·0	—
368	" 30	5 51·0	—	—	—	—	3 42·0	Very small movements.
369	" 31	4 19·0	—	—	—	—	3 20·0	Air tremors.
370	Feb. 4	7 6·8	—	—	—	—	2 41·0	Very small movements.
371	" 6	5 33·8	—	—	—	—	3 35·0	Very small movements.
372	" 11	1 11·7	—	—	—	—	8 32·0	Very small movements.
373	" 12	0 52·7	—	—	—	—	8 58·0	Tremors.
374	" 13	0 42·7	6 45·7	6 49·7	7 10·7	2·0	8 45·0	—
375	" 14	9 9·6	9 26·6	9 43·1	10 7·6	7·2	2 28·0	—
376	" 15	2 18·6	—	—	—	0·5	7 5·0	Small movements.
377	" 16	2 4·6	—	—	—	—	8 4·0	Tremors.
378	" 17	1 46·6	—	—	—	—	8 6·0	Very small movements.
379	" 17	11 51·6	12 29·6	12 32·1	12 34·6	2·25	2 55·0	—
380	" 18	1 3·6	—	—	—	0·5	9 5·0	Small movements.
381	" 18	15 35·5	—	—	—	—	0 11·0	Very small movements.
382	" 19	3 58·5	5 58·5	6 8·5 6 20·5 6 25·5	6 37·5	1·8 1·2 1·7	4 28·0	—
383	" 12	3 10·5	—	—	—	0·7	7 17·0	Small movements.
384	" 22	1 13·5	—	—	—	—	9 10·0	Air tremors.
385	" 23	1 58·5	—	—	—	0·5	8 25·0	Small movements.
386	" 26	3 50·4	—	—	—	—	0 31·0	Very small movements.
387	" 27	17 50·4	18 45·4	19 7·9	19 16·4	1·8	1 35·0	—
388	March 2	0 23·3	—	—	—	—	10 0·0	Tremors.
389	" 3	0 23·3	—	—	—	—	10 0·0	Tremors.
390	" 4	0 23·3	—	—	—	—	10 0·0	Tremors.
391	" 4	16 46·3	17 15·3	17 19·3 17 26·3	17 34·3	1·0 0·7	1 11·0	—
392	" 4	19 42·3	—	—	—	0·5	0 51·0	Small movements.
393	" 4	23 49·3	24 28·3	24 32·8 24 38·3	24 54·3	2·25 1·50	1 36·0	—
394	" 5	5 3·3	—	—	—	—	3 20·0	Tremors.
395	" 7	4 23·3	—	—	—	—	5 50·0	Tremors.
396	" 8	3 23·3	—	—	—	—	6 0·0	Tremors.
397	" 11	1 23·3	—	—	—	—	8 0·0	Tremors.
398	" 17	22 17·2	22 17·2	22 23·7	22 27·2	0·7	0 16·0	—
399	" 18	2 40·2	—	—	—	—	2 21·0	Very small movements.
400	" 19	0 28·2	1 21·2	1 25·7 1 42·1 1 45·5	2 3·2	3·0 3·0 3·0	8 40·0	—
401	" 20	22 23·1	—	—	—	0·5	11 45·0	Small movements.
402	" 22	1 23·1	4 27·1 5 59·1	4 43·1 6 4·6	5 4·1 6 13·1	2·5 1·0	8 0·0	—
403	" 29	1 38·0	—	—	—	—	6 45·0	Very small movements.
404	April 2	3 6·0	—	—	—	—	4 17·0	Tremors.
405	" 4	1 2·5	1 11·0	1 34·0	3 50·0	8·75	3 45·5	India earthquake.
406	" 12	3 23·0	—	—	—	—	4 40·0	Tremors.
407	" 15	1 13·0	—	—	—	—	7 40·0	Very small movements.
408	" 17	0 55·0	—	—	—	—	7 28·0	Tremors.
409	" 19	1 41·0	—	—	—	—	8 21·0	Very small movements.

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Circular No. 13, *issued by the Seismological Committee*, Professor J. W. Judd, *C.B., F.R.S.* (*Chairman*), Mr. John Milne, *F.R.S., Shide, Isle of Wight* (*Secretary*).

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	Honolulu (*July* 23, 1904, *to July* 1, 1905, *Nos.* 67 *to* 134)	54
	Perth, W. Australia (*July* 1 *to December* 21, 1905, *Nos.* 56 *to* 103)	56
	Christchurch, New Zealand (*January* 7 *to June* 30, 1905, *Nos.* 251 *to* 305)	58

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

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If observers at these and other places will kindly send a copy of their register, together with copies of their more important seismograms, to the Secretary of the Seismological Investigation Committee, British Association, Burlington House, London, W., as early as possible after June 30, and again after December 31 of each year, the interval of time which must elapse before they receive copies of the registers of co-workers in various parts of the world will be considerably reduced.

The time employed is Greenwich mean time (civil), expressed in hours, minutes, and in decimals of minutes. 24 or 0 hours = midnight.

Amplitude indicates half of the complete range of the maximum motion, and is expressed in millimetres. Values less than 1 millimetre refer to the thickening of the line and indicate half its width.

As 1° turn of the calibrating screw in the bed-plate of the instrument causes a tilt of 1″.9, and as this is accompanied by a measurable displacement of the outer end of the boom, it is easy to determine the angular value corresponding to a 1 millimetre displacement. This quantity should be stated at the end of each register.

II. *Registers.*

The Register from Shide, Newport, Isle of Wight, England.
Observer, JOHN MILNE; *Assistant*, SHINOBU HIROTA.

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

A. Period 17 seconds. 1° turn = 4 mm.
B. Period 25 seconds. 1° turn = 9 mm.
C. Period 20 seconds. This pendulum records N.S. motion and is without a calibrating screw. A and B record E.W. motion.

P_1 = Preliminary tremors. p. = period. d. = duration. Ats. = Air tremors.

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks
			1905.			
		H. M.	H. M.	MM.	H. M.	
1027	July 1	2 30·9	—	0·3	0 8	C.
1028	,, 2	3 58·0	—	—	3 0	A. Earthquake?
1029	,, 3	0 15·8	—	0·2	0 39	A.
		0 44·3				
		0 56·0	—	0·2	0 5	B.
		0 45·5	0 53·9	0·3	0 20	C.
1030	,, 6	7 46·8	—	0·2	0 7	B. Not on A.
		7 48·9	—	0·2	0 7	C.
1031		16 33·4	17 18·0	2·0	1 17	A.
		16 33·2	17 14·1	7·0	2 20	B. P_1 = 10 m.
		16 33·2	17 15·2	6·0	2 26	C. P_1 = 11·5 m.
1032	,, 7	23 6·0	—	0·2	0 15	A.
1033	,, 8	15 36·0	—	0·2	0 10	A.
1034		23 4·0	—	0·2	0 5	B and C.
1035	,, 9	8 12·0	—	0·2	0 5	A.
1036	,, 9	9 51·5	10 17·9	>14·0	4 20	B. A not working
		9 51·5	10 15·4	>14·0	4 20	C.

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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.	
1037	July 10	8 6·0	—	0·3	0 10	A.
1038	,, 11	8 57·8	9 17·0	3·0	1 10	A. p. 20s.
		9 3·1	9 18·5	1·7	0 50	B.
		9 4·1	9 18·5	3·0	0 56	C.
1039	,, 11	16 3.1	16 50·0	0·5	1 5	A.
		16 10·3	16 26·7	0·5	0 48	B.
		16 5·2	16 30·8	0·5	0 52	C.
1040	,, 11	18 28·9	—	0·5	0 10	A.
1041	,, 12	9 6·0	—	0·5	0 10	A.
1042	,, 12	19 46·2	—	1·0	0 20	A.
1043	,, 12	20 28·0	—	0·3	0 5	A.
1044	,, 13	7 48·3	—	0·2	0 8	A.
1045	,, 14	9 10·5	9 32·0	0·7	1 35	A.
		9 21·9	9 32·6	0·5	0 50	B.
		9 14·7	9 20·9	2·0	1 2	C.
1046	,, 14	22 24·6	22 40·0	1·5	1 17	A. p. 20s.
		22 31·1	22 40·4	1·0	0 32	B.
		22 31·1	22 36·2 } 22 42.6 }	1·5	0 30	C.
1047	,, 15	8 6·0	—	0·2	0 20	A.
1048	,, 17	1 3·2	1 59·1	1·0	?	A.
		1 59·0	2 3·2	0·5	0 45	B. Tremors present.
		1 50·8	2 2·1	1·5	0 45	C. Tremors present.
1049	,, 18	2 11·0	—	0·2	0 14	A.
1050	,, 18	15 57·0	—	0·2	0 27	A.
1051	,, 20	1 30·0	—	0·1	0 40	A.
1052	,, 23	2 55·6	3 21·0	—	2 55	A.
		2 55·6	3 8·9 } 3 16·1 } 3 21·2 }	>17·0	4 20	B & C. P_1=8m. Repetition at 6h. 20m.
1053	,, 24	23 53.7	—	B ·2 A·1	0 5	B. & C.
1054	,, 27	23 3·0				
		or 23 18.0	—	0·5	0 33or48	A.
		23 24·3	23 26·4	0·2	0 6	B.
		23 18·1	23 22·0	0·3	0 10	C.
1055	,, 30	22 22·1	—	0·2	0 5	C. Not on B. A. not working
1056	,, 31	12 37·9	—	0·2	0 5	C.
1057	Aug. 4	5 16·1	5 23·0	1·5	0 22	A.
		5 16·3	5 21·4	2·5	0 25	B.
		,,	,,	5·0	0 17	C.
1058	,, 6	20 3·0	—	0·2	0 5	C. Not on B. A. not working
1059	,, 8	14 42·4	14 48·5	0·2	0 45	B.
		14 30·0	14 39·3	0·2	0 45	C. A not working.
1060	,, 10	8 39·0	—	0·2	0 5	C.
1061	,, 10	10 30·6	—	0·2	0 5	A. Eqke. ?
1062	,, 12	14 45·3	—	0·2	0 12	C. Not on B. A. not working
1063	,, 25	20 45·8	—	0·1	0 5	A.
1064	Sept. 8	1 46·8	—	—	0 35	A. P_1=6m. 40s. p.=10 s. Trace faint.
		1 47·9	1 55·9	7·0	2 20	B.

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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.	
		1 46·9	1 54·6	11·0	2 20	C.
1065	Sept. 15	8 9·9	9 29·3	0·5	0 50	B. A not wor ing.
		8 4·7	8 27·3	1·0	1 2	C.
1066	,, 15	6 23·8	6 54·0	> 7·0	>2 30	A. Tremors pr ent.
		6 14·0	6 37·6	>15·0	3 0	B and C, wi amp. for 9mm. Repe tion 115 after max.
1067	,, 16	1 55·0	—	0·2	0 12	C.
1068	,, 21	7 41·2	—	0·5	0 5	C. Tremors o
1069	,, 23	11 19·2	—	0·1	0 6	A.
		11 10·3	—	0·1	0 3	B and C.
1070	,, 26	1 48·3	2 7·0	1·2	0 42	A. p. 18s.
		1 48·5	2 1·9	2·0	1 6	B.
		1 50·5	2 1·0	1·5	1 6	C.
1071	,, 29	12 12·8	13 7·0	1·0	3 0	A. p. 18s. Re tition at 14
		12 15·3	12 35·4	0·7	1 50	B. Repetition before C.
		12 19·3	{ 12 42·4 { 13 9·5	0·7	1 50	C. Repetition 14h.
1072	Oct. 4	0 0·5	—	0·1	0 19	A.
		0 0·2	—	0·1	0 15	B and C.
1073	,, 5	3 13·8	—	0·1	1 20	C. A trace on Not on A.
1074	,, 8	7 32·5	7 39·0	2·0	0 44	A. p. 10s.
		7 31·4	7 39·7	1·5	0 23	B.
		7 26·3	7 37·6	2·5	0 30	C.
1075	,, 10	19 17·0	—	0·1	0 37	C. A trace on
1076	,, 15	22 8·0	22 11·1	0·5	0 26	B.
				0·7	0 30	C.
1077	,, 21	11 ,, 13·7	11 ,, 20·8	1·0	0 40	B. A. not wo ing.
				1·5	0 50	C.
1078	,, 21	? ,,	13 ,, 37·8	0·1	0 3	B. A not wo ing.
1079	,, 21	13 34·8	13 37·8	0·3	0 10	C.
		19 54·7	—	0·2	0 13	B. A not wo ing. No C.
1080	,, 22	4 9·1	—	0·3	0 5	B & C. A working.
1081	,, 22	9 6·1	9 12·2	0·5B 1·5C	0 18	B & C. A working.
1082	,, 24	18 17·4	18 25·6	2·5	0 30	B. A not w ing.
			18 27·7	2·5	0 50	C.
1083	Nov. 1	5 ,, 49·4	—	0.1	0 5	B.
1084	,, 1	12 5·3	—	0·1	0 10	C.
1085	,, 3	19 10·6	—	0·2	0 30	B.
			19 15·0	0·5	0 36	C.
1086	,, 6	17 ,, 30·2	18 16·0	1·0	0 35	A. p. 18s.
1087	,, 8	21 55·0	22 16·6	>15·0	3 45	B and C.
		21 57·1	22 20·6	16·0	2 18	A. p. 17 &
1088	,, 9	11 32·0	—	0·1	0 4	A.

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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.	
1089	Nov. 10	5 31·2	—	0·1	0 5	C. Not on B.
1090	,, 13	11 41 to 13 12	—	—	—	Tremors on A.
1091	,, 14	8 5·7	—	0·1	0 5	C. Not on B.
		8 0·0	—	0·1	0 5	A. p. 20s.
1092	,, 21	23 24·0	23 56·8 24 35·8	1·0B 0·7C	1 40	B and C.
		22 52·5	23 52·5	1·0	3 0	A.
1093	,, 23	15 22·0	—	0·1	0 3	B. Eqke. ?
1094	,, 28	18 34·6	—	0·1	0 5	C.
1095	Dec. 1	22 19·1	—	0·5	0 25	C. On B d. = 10m.
1096	,, 4	7 12·8	7 28·0	—	—	B and C. Trace faint.
1097	,, 10	12 52·9	13 23·7	4·0	—	C. Amp. on B 3mm. Ats.
1098	,, 10	19 7·7	19 23·1	0·7	0 50	B. Ats.
		18 58·0	19 8·3	1·0	0 50	C. Ats.
1099	,, 13	3 6·0	—	1·0	0 8	A.
1100	,, 15	7 44·1	—	0·2	0 15	B.
		7 44·1	—	0·1	0 13	C.
1101	,, 17	5 58·6	6 24·4	3·0	0 48	B.
		6 2·7	6 15·1	4·9	0 40	C.
1102	,, 17	10 6·1	10 16·1	1·5	0 35	B.
		9 9·9	10 19·1	2·5	0 54	C.
1103	,, 18	6 47·9	—	0·1	0 3	B and C.
1104	,, 29	0 32·7	—	0·2	0 5	B.
		0 36·9	—	0·3	0 23	C.

Register from National Physical Laboratory, Kew Observatory. Director, R. T. Glazebrook, *D.Sc., F.R.S.; Superintendent,* C. Chree, *LL.D., F.R.S.; Observer,* E. G. Constable.

No.	Date	Commencement	Max.	Max. Amplitude	Duration	Remarks.
			1905.			
		H. M.	H. M.	MM.	H. M.	
625	July 3	0 54·4	—	0·3	0 15	—
626	,, 6	16 37·3	17 17·2	5·0	1 38	—
627	,, 9	9 50·9	10 17·0 ?	>17·0	4 5	>17mm. from 10h. 13m. to 10h. 21m.
628	,, 11	8 46·0	9 15·2	2·0	1 9	—
629	,, 11	16 31·2	—	0·4	0 33	—
630	,, 13	8 34·7	—	0·4	0 11	—
631	,, 14	9 19·5	9 32·2	0·6	0 53	—
632	,, 14	22 33·7	22 36·5	1·0	0 33	Second max. at 22h. 41·5m.

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Register from National Physical Laboratory, Kew Observatory—continued.

No.	Date	Commencement	Max.	Max. Amplitude.	Duration	Remarks.
		H. M.	H. M.	MM.	H. M.	
633	July 15	8 6·2	—	0·2	0 5	—
634	,, 17	1 37·3	1 53·5	0·5	0 48	—
635	,, 23	2 56·0	3 20·0	>14·0	?	Times appro Action doubt
636	,, 27	23 27·2	—	0·2	0 4	—
637	Aug. 4	5 18·4	5 21·5	2·2	0 13	—
638	Sept. 8	1 47·0	1 55·0	?	?	Boom grazi plate
639	,, 14	20 3·5	20 41·4	0·5	1 10	A long series small moveme
640	,, 15	6 23·3	6 53·3	4·5	2 31	—
641	,, 17	1 58·3	2 6·4	1·1	0 38	—
642	,, 29	12 18·5	12 33·3	0·5	1 10	Second max. 1h. 3·5m.
643	Oct. 8	7 35·3	7 40·0	1·2	0 19	—
644	,, 15	22 11·8	22 30·0	0·6	0 47	—
645	,, 21	11 14·4	11 28·5	1·1	0 54	—
646	,, 22	9 8·2	9 18·0	0·5	0 30	—
647	,, 24	18 21·8	18 31·5	1·0	0 32	—
648	,, 27	A series of small movements from 12h. 39m. to 14h. 1m., b seismic character doubtful.				
649	Nov. 3	19 21·5	—	0·2	0 14	—
650	,, 6	17 59·5	18 14·8	0·8	0 54	—
651	,, 8	1 23·7	—	0·5	0 9	—
652	,, 8	22 9·7	22 17·6	12·1	1 43	Second max. 22h. 18·5n
653	,, 21	23 24·8	23 57·2	1·0	0 44	—
654	,, 22	0 28·2	0 37·7	0·8	0 25	—
655	Dec. 1	22 26·4	—	0·4	0 15	—
656	,, 4	7 16·8	—	? 1·5	0 40	Light — shu touched b
657	,, 10	13 1·4	—	1·3	0 53	Figures app
658	,, 10	19 2·5	19 20·8	1·0	0 43	—
659	,, 17	6 7.3	6 18·5	2·0	0 45	—
660	,, 17	10 16·8	10 26·4	1·0	0 44	—

Mean scale value 1mm. = 0″·55 throughout.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
				1905				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
663	July 1	—	2 28·2	2 35·8	2 48·9	0·2	0 21	—
664	,, 3	—	0 53·1	0 57·2	1 6·9	0·2	0 14	—
665	,, 6	16 33·7	16 43·8	17 15·0	18 38·7	4·3	2 5	—
666	,, 6	—	18 46·0	18 53·2	19 20·7	0·7	0 35	—
667	,, 6	—	—	23 21·0	—	—	—	Small
668	,, 9	—	9 49·4	10 12·0	13 57·9	—	4 9	Too great for record
669	,, 10	—	21 5·0	21 11·6	21 23·2	0·3	0 18	—
670	,, 11	—	—	9 30·0	10 8·0	1·0	—	Beginning lost while changing roll,
671	,, 11	—	11 54·7	12 2·0	12 23·1	0·4	0 28	—
672	,, 11	15 3·0	15 17·2	16 40·6	17 4·4	0·8	2 1	—
673	,, 13	—	13 18·0	—	13 40·0	—	0 22	Small
674	,, 14	—	9 17·2	9 29·3	10 2·4	1·1	0 45	—
675	,, 14	—	22 27·3	22 37·3	23 5·0	—	0 38	—
676	,, 17	1 10·9	1 39·0	1 57·3	2 40·0	0·9	1 29	—
677	,, 18	—	2 8·0	2 12·0	2 20·0	—	0 12	Small
678	,, 23	—	2 56·0	3 25·0	6 56·2	—	—	Lamp failed
679	,, 23	—	10 37·4	10 39·9	10 45·6	0·2	0 8	Too great for record
680	,, 27	—	23 16·3	23 25·8	23 51·2	0·4	0 35	—
681	Aug. 4	—	5 14·7	5 22·4	5 40·0	2·0	0 25	—
682	,, 7	—	—	0 6·0	—	—	—	Small & uncertain
683	,, 8	—	14 32·5	14 40·3	15 16·7	0·5	0 44	—
684	,, 13	—	7 22·0	7 35·3	8 0·4	—	0 38	Small
685	,, 13	—	10 9·5	—	10 31·0	0·3	0 22	—
686	,, 17	—	20 27·2	20 39·5	21 1·6	0·2	0 34	—
687	,, 25	—	10 2·2	10 7·4	10 52·0	0·4	0 50	—
688	,, 25	—	20 46·1	20 51·7	21 4·9	0·2	0 19	—
689	,, 28	—	4 52·0	—	5 30·0	—	—	Small irregular disturbance
690	,, 31	—	15 16·1	15 23·0	15 43·7	0·3	0 28	—
691	Sept. 1	—	3 6·0	—	3 48·0	—	0 42	Small
692	,, 8	—	1 44·2	1 51·3	3 2·6	8·3	1 18	—
693	,, 14	—	20 5·0	20 28·8	21 13·3	1·5	1 8	—
694	,, 15	—	—	14 4·0	—	—	—	Slight
695	,, 26	—	1 49·2	2 5·3	3 6·0	3·4	1 17	—
696	,, 29	—	12 13·0	12 58·1	14 33·0	0·9	2 20	—
697	Oct. 8	—	7 31·4	7 42·0	8 3·8	0·7	0 32	—
698	,, 10	—	19 35·0	19 43·6	20 2·4	0·4	0 27	—
699	,, 14	—	15 6·0	15 18·0	15 42·9	0·5	0 37	—
700	,, 15	—	22 4·4	22 12·2	23 1·7	0·7	0 57	—
701	,, 16	—	12 4·4	12 13·9	12 25·2	0·5	0 21	—
702	,, 21	—	11 11·2	11 24·0	11 58·5	3·2	0 47	—
703	,, 21	—	13 32·3	13 42·4	15 52·8	0·5	0 21	—
704	,, 21	—	19 43·0	19 48·1	20 1·7	0·3	0 19	—
705	,, 22	—	4 6·1	4 10·2	4 18·0	0·2	0 12	—
706	,, 22	—	9 4·0	9 10·8	9 37·2	0·4	0 33	—
707	,, 24	—	4 8·3	4 14·0	4 29·8	—	0 22	Small
708	,, 24	—	18 19·4	18 29·3	18 48·0	1·3	0 29	—
709	,, 29	—	14 38·6	14 44·3	15 35·9	—	0 57	Perhaps A.T.
710	Nov. 1	—	10 58·8	11 7·4	11 16·8	0·5	0 18	—
711	,, 3	—	19 5·0	19 15·8	19 38·6	0·3	0 34	—
712	,, 6	17 43·8	18 8·2	18 11·3	19 5·4	0·8	1 22	—
713	,, 8	—	—	1 24·0	—	—	—	Uncertain: light failed
714	,, 8	—	22 11·3	22 19·6	23 22·5	10·3	1 11	—
715	,, 15	—	6 21·4	6 26·9	6 43·3	0·5	0 22	—
716	,, 19	—	23 42·5	23 48·8	23 54·3	—	0 12	Small
717	,, 21	23 22·7	23 43·0	23 50·9	1 38·3	1·4	2 16	—
718	,, 26	—	—	9 00·0	—	—	—	Small: film injured
719	Dec. 1	—	22 21·0	22 28·6	23 43·0	—	0 22	Perhaps A.T.
720	,, 4	—	7 12·5	7 29·7	8 22·6	1·7	1 10	—
721	,, 4	—	9 15·5	9 21·3	9 33·7	0·3	0 18	—
722	,, 4	—	12 35·0	12 42·6	13 2·8	0·2	0 28	—
723	,, 9	—	20 8·4	20 12·0	20 19·8	0·6	0 11	—
724	,, 10	—	12 55·0	13 18·3	14 28·2	1·1	1 33	—
725	,, 10	—	18 58·7	19 20·0	20 25·0	1·0	1 26	—
726	,, 17	—	5 53·8	6 18·4	7 3·7	2·5	1 10	—
727	,, 17	—	10 10·0	10 22·2	11 1·7	1·1	0 52	—
728	,, 17	—	12 0·4	12 6·3	12 25·1	0·4	0 25	—
729	,, 27	—	1 7·2	1 11·7	1 21·9	0·3	0 15	—
730	,, 27	—	19 28·0	—	19 40·1	—	0 12	Small
731	,, 28	—	12 46·9	12 54·4	13 6·0	0·2	0 19	—
732	,, 31	—	15 3·9	15 22·2	15 53·0	0·4	0 49	—

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Register from Royal Observatory, Edinburgh.
Director, F. W. Dyson, M.A., F.R.S. · *Observer*, Thomas Heath.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
				1905				
		H. M.	H. M.	H. M.	H. M.	M.M.	H. M.	
356	July 6	16 33·5	17 9·0	17 13·8	18 52·0	2·2	2 18·5	—
357	" 9	9 50·0	10 2·5	10 12·0	13 51·0	>17·0	4 1·0	—
358	" 14	9 15·5	—	9 30·0	10 17·5	0·5	1 2·0	—
359	" 14	22 32·0	—	22 38·5	22 59·0	0·5	0 27·0	—
360	" 17	2 1·0	—	2 5·0	2 19·5	0·2	0 18·5	? —
361	" 23	2 56·3	3 4·0	3 24·0	7 16·0	41·0	~~4 19·7~~	—
362	Aug. 4	5 17·5	—	5 23·5	5 35·0	1·0	0 17·5	—
363	" 19	5 20·0	—	—	7 45·0	—	2 25·0	Sinuous line
364	" 25	—	—	10 5·5	10 9·5	0·3	0 4·0	Begins abruptly
365	Sept. 8	1 48·0	1 54·0	2 0·0	3 31·0	7·5	1 43·0	—
366	" 14	20 3·0	—	20 32·5	21 19·5	0·3	1 16·5	—
367	" 15	6 20·0	6 45·5	6 52·0	9 11·0	3·7	2 51·0	—
368	" 26	1 44·5	2 1·5	2 4·0	2 56·0	1·8	1 14·5	—
369	" 28	7 37·0	—	—	9 33·0	—	1 56·0	Line slightly irregular
370	" 29	12 17·0	—	12 57·0	14 44·5	0·3	2 27·5	—
371	Oct. 1	21 40·0	—	—	22 58·0	—	1 18·0	Line irregular
372	" 2	5 26·0	—	—	10 51·0	—	5 25·0	Line irregular
373	" 4–5	9 0·0	—	—	8 0·0	—	23 0·0	Frequent A.T.s.
374	" 5	8 0·0	—	—	9 50·0	—	1 50·0	Zigzag line.
375	" 6	0 55·0	—	—	10 0·0	—	9 5·0	Zigzag line.
376	" 8	7 36·0	7 39·5	7 43·0	7 53·5	1·5	0 17·5	—
377	" 13	5 0·0	—	12 45·0	20 25·0	0·4	15 25·0	Trace very irregular
378	" 15	22 12·5	—	22 19·0	23 0·0	0·25	0 47·5	Perhaps A.T.s.
379	" 16	3 37·0	—	—	10 20·0	—	6 43·0	Trace very irregular
380	" 21	11 13·5	11 21·0	11 24·5	11 51·0	1·2	0 37·5	—
381	" 21	13 40·0	—	13 42·0	13 51·0	0·2	0 11·0	—
382	" 22	9 13·0	—	—	9 58·0	—	0 45·0	A.T.s.
383	" 24	18 24·0	18 26·5	18 28·5	18 52·0	0·8	0 28·0	—
384	" 29	10 30·0	—	—	23 30·0	—	13 0·0	A.T.s.
385	Nov. 6	18 0·0	—	18 8·5	18 21·0	0·2	0 21·0	Perhaps A.T.s.
386	" 8	22 11·0	22 15·0	22 20·5	23 39·0	17·0	1 28·0	—
387	" 15	6 27·0	—	—	6 29·0	—	0 2·0	Slight tremor.
388	" 19	23 44·5	—	23 45·0	23 48·0	0·2	0 3·5	—
389	Dec. 4	7 17·5	7 28·5	7 30·5	8 20·0	3·0	1 2·5	—
390	" 5	—	—	12 35·0	12 39·0	0·3	0 4·0	Begins abruptly
391	" 7	—	—	16 3·5	16 8·0	0·5	0 4·5	Begins abruptly
392	" 10	12 25·5	13 20·0	13 24·5	14 24·5	1·7	1 59·0	—
393	" 10	18 59·5	—	19 18·5	19 38·0	0·4	0 38·5	—
394	" 17	6 4·0	6 12·0	6 16·5	6 52·0	2·5	0 48·0	—
395	" 17	10 17·0	—	10 21·5	10 51·5	1·4	0 34·5	—
396	" 17	12 2·0	—	12 5·5	12 11·5	0·3	0 9·5	—
397	" 31	7 16·5	—	7 30·0	8 36·0	0·2	1 19·5	—

1905, Sept. 14. 1° of footscrew = 2·75 mm. at end of boom.
1905, Nov. 13. 1° of footscrew = 3·32 mm. at end of boom.
1906, Jan. 12. 1° of footscrew = 3·05 mm. at end of boom.

Mean = 3·04 mm.

∴ 1 mm. displacement at end of boom = 0″·63 tilt of pillar.

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

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
				1905				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
225	July 2	—	—	4 20	—	—	—	Thickening.
226	" 4	19 30	—	—	20 30	—	1 0	Thickening.
227	" 5	3 30	—	5 11	6 3	—	2 33	Possibly A.T.
228	" 5	11 20	—	—	12 5	—	0 45	Doubtful.
229	" 6	—	—	15 54	—	—	—	Faint.
230	" 6	16 36	16 43·2	17 15·8	19 0	4·0	2 24	—
231	" 9	9 50·5	9 58·5	10 13·3	13 40	>17·0	3 50	—
232	" 10	21 53	21 55	21 56·8	?	0·8	?	—
233	" 11	9 1·5	9 10	9 16	10 10	1·0	1 8	—
234	" 11	16 2·6	—	16 43·6	16 52	0·4	0 49	Possibly two movements.
235	" 12	—	—	1 0	—	—	—	Thickening.
236	" 14	—	—	4 57·5	—	—	—	Thickening.
237	" 14	9 17·5	9 24·5	9 31	10 7·5	0·5	0 50	—
238	" 16	—	—	22 6	—	0·5	—	Possibly A.T.
239	" 18	—	—	3 30	—	—	—	Possibly A.T.
240	" 21	2 1	—	—	2 15	—	0 14	Thickening.
241	" 22	—	—	3 47	—	—		Thickening.
242	" 22	23 39	—	—	24 0	—	0 21	Thickening, local earthquake.
243	" 23	2 56·3	3 4·5	3 17·6	7 16·5	>17·0	4 20	Max. for about 20min.
244	" 24	—	—	23 53	—	—	—	Thickening.
245	" 25	—	—	1 1	—	—	—	Thickening.
246	" 25	2 58	—	3 28	4 9	0·4	1 11	—
247	" 31	—	—	12 23·5	—	—	—	Odd formation.
248	Aug. 4	5 18	5 21·4	5 30	5 43	0·6	0 25	—
				Light out for repair of gas pipes, August 8th.				
249	" 9	—	—	19 40	—	—	—	Thickening.
250	" 11	11 46	—	—	12 30	—	0 44	Thickening.
251	" 11	—	—	19 53·5	—	—	—	Thickening.
				Instrument interrupted, August 16th.				
252	" 17	—	—	0 31·5	—	—	—	Doubtful.
253	" 17	—	—	20 57·5	—	—	—	Thickening.
254	" 18	—	—	19 12	—	—	—	Doubtful.
255	" 25	—	—	10 6	—	—	—	Thickening.
256	Sept. 1	—	—	3 7	—	—	—	Thickening.
257	" 3	—	—	13 48	—	—	—	Thickening.
258	" 8	1 47·5	1 51·5	1 56·6	?	8·0	?	Tremors.
259	" 8	—	—	10 0	—	—	—	Thickening before and after.
260	" 9	19 3	—	—	19 45	—	0 42	Thickening.
261	" 15	6 15	6 23·3	6 55·6	9 13	3·8	2 58	—
262	" 16	16 17·5	16 19·6	16 19·6	16 21·5	1·0	0 4	—
263	" 26	?	2 2	2 6·5	?	1·8	—	A.T. prevalent.
264	" 29	12 17	—	—	13 29	0·3	1 12	—
265	Oct. 8	7 36·8	7 39·7	7 42·5	8 1·5	1·0	0 25	—
266	" 14	15 12	—	—	15 35	—	0 23	Very faint.
267	" 14	—	—	20 15	—	—	—	Very faint.
268	" 21	11 12·5	11 20·7	11 23·8	12 5	1·8	0 47	—
269	" 21	—	—	13 41·5	—	—	—	Thickening.
270	" 24	18 23	18 25·2	18 26·4	18 46	0·6	0 23	—
271	" 26	19 3	—	—	20 35	—	1 32	Doubtful.
272	" 27	11 56·5	—	—	13 57	—	—	Thickenings.
273	Nov. 6	17 58·2	—	—	19 12	—	—	Thickenings.
274	" 8	22 11·8	22 16·2	22 21	?	14·0	—	End obscured
275	" 11-12	23 1	—	—	1 5	—	—	Thickenings.
276	" 12	2 38	—	—	3 4	—	—	Thickenings.
277	" 14	0 18·5	—	—	1 34	—	—	Thickenings.
278	" 15	6 2[illegible]·5	—	—	6 31·5	0·5	0 5	—
279	" 19	—	—	23 45	—	—	—	Thickening.
280	" 21	23 21	—	23 48·5	—	0·5	—	Possibly one movement.
281	" 22	—	—	0 36·5	—	0·5	—	
282	" 22	—	—	1 33·5	—	—	—	Thickening.
283	" 22	9 0	—	—	13 0	—	—	Several thickenings.
284	Dec. 4	7 14·5	7 20·5	7 30·5	8 26	3·3	1 12	—

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Register from the Coats Observatory, Paisley—continued.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
285	Dec. 4	9 20·3	—	9 28	—	—	—	Thickening.
286	" 4	—	—	10 3	—	—	—	Thickening.
287	" 4	—	—	12 45	—	0·2	—	Thickening.
288	" 10	12 47·5	12 54 or 13 3·8	13 15·7	14 48	0·8	2 0	Thickenings at intervals till next.
289	" 10	19 5·2	?	19 16	19 57	0.6	0 52	
290	" 17	5 53	6 11·6	6 18·5	7 21	2·2	1 28	Times approx.
291	" 17	10 3	10 17	10 19·5	11 5	1·2	1 2	Times approx.
292	" 17	12 1	12 2·5	12 5	12 20	0·3	0 19	Times approx.

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

Register from the Observatorio de Marina de San Fernando, Spain.
Director, Capitán de Fragata Tomás de Azcárate.

No.	Date	P.T. Commence	L.W. Commence	Max.	End	Max. Amplitude	Duration	Remarks.
				1905				
		H. M.	H. M.	H. M.	H. M.	MM.	H. M.	
441	July 6	16 52·8	17 20·8	17 27·8	17 36·8	3·50	1 14·0	—
442	" 9	9 49·9	10 0·4	10 26·9	12 33·9	>17·50	4 8·0	—
443	" 14	9 28·0	9 36·0	9 37·5	9 47·5	0·50	0 39·0	—
444	" 14	20 34·0	20 40·5	20 41·5	20 45·5	1·00	0 25·0	—
445	" 17	1 46·[illegible]	1 50·0	1 59·0	2 8·0	0·60	0 43·0	—
446	" 21	0 24·2	—	—	—	—	7 0·0	Tremors.
447	" 22	0 24·2	—	—	—	—	11 35·0	Tremors.
448	" 23	2 27·8	3 7·3	3 34·3	6 40·3	>17·50	4 54·0	—
449	Aug. 1	3 35·0	—	—	—	—	—	Tremors.
450	" 2	7 0·5	—	—	—	0·75	—	—
451	" 4	5 28·1	5 32·6	5 33·6	5 34·6	1·25	—	—
452	" 4	23 24·6	—	—	—	—	—	Tremors.
	" 5	—	—	—	—	—	—	
453	" 7	14 17·7	14 22·7	14 23·7	14 24·7	0·60	—	—
454	" 8	14 31·7	14 40·7	14 41·7	14 57·7	0·60	—	—
455	" 14	4 54·9	—	—	—	—	—	Tremors.
456	" 21	1 25·1	—	—	—	—	—	Tremors.
457	" 21	22 7·1	—	—	—	—	—	Small movements
	" 22	—	6 57·6	—	8 25·1	—	—	
458	" 23	7 45·2	—	—	—	—	—	Tremors.
459	" 25	3 33·3	—	—	—	—	—	Tremors.
460	" 29	4 10·5	—	—	—	—	—	Tremors.
461	" 30	2 55·5	—	—	—	—	—	Tremors.
462	" 30	9 55·5	—	—	—	—	—	Tremors.
463	Sept. 8	1 6·9	1 50·4	1 58·4	2 5·9	3·00	1 44·0	Calabria Eqke.
464	" 15	6 26·1	6 47·6	7 1·1	7 17·1	3·00	2 17·0	—
465	Oct. 21	11 17·8	11 4·5	11 23·8	11 25·3	0·74	0 17·0	—
466	Nov. 6	17 59·9	—	—	—	0·50	0 51·0	—
467	" 8	22 9·4	22 12·9	22 20·9	22 56·9	10·75	1 42·5	—
468	" 21	23 51·9	23 56·9	23 57·9	23 59·9	0·75	1 4·0	—
	" 22	—	0 38·4	0 40·9	0 42·9	1·50		—
469	" 23	1 0·0	—	—	—	—	5 30·0	Tremors.
470	Dec. 4	4 49·4	7 21·1	7 27·0	7 37·1	2·25	4 37·6	—
471	" 10	12 58·2	13 20·4	13 26·7	13 54·3	3·00	2 24·0	—
472	" 10	18 38·5	19 12·4	19 19·9	19 34·1	1·35	1 2·7	—
473	" 29	0 28·3	—	0 34·7	—	0·80	0 31·9	—

July	20.	1mm. = 0·22″.	Period = 21s.
August	2.	1mm. = 0·19″.	Period = 22s.
Sept.	23.	1mm. = 0·21″.	Period = 21s.
October	31.	1mm. = 0·19″.	Period = 21s.
Nov.	27.	1mm. = 0·20″.	Period = 21s.
Dec.	8.	1mm. = 0·19″.	Period = 21s.
	Mean	= 0·20″.	Period = 21s.

December 6th and 17th, clock stopped.

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

No.	Date	Commencement	Max.	Semi-Amplitude	Duration	Remarks
			1905			
		H. M.	H. M.	MM.	H. M.	
134	July 6	16 47·0	—	—	1 14·0	I. of the Mercalli's scale Thickening of line.
	,, 9	9 53·5	10 34·5	6·9	2 23·0	I. of the Mercalli's scale.
135	,, 11	9 28·0	—	—	0 15·0	Idem—Thickening of line.
136	,, 23	3 00·0	3 34·5	15·1	2 34·0	Idem.
142	Register lost from 15h. 50m. on Sept. 3 to 11h. 11m. on Sept. 4.					
143	Sept. 8	1 50·5	2 17·5	2·55	1 20·5	Idem.
144	,, 14	20 05·0	—	—	0 47·0	Idem—Thickening of line.
	,, 15	1 59·0	—	—	0 04·0	Idem—Idem.
	,, 15	6 20·0	6 28·7	1·3	2 11·0	Idem.
146	,, 29	12 14·0	—	—	0 49·5	Idem—Thickening of line.
147	Oct. 8	7 40·0	—	—	0 28·0	Idem—Idem.
148	,, 15	21 51·5	22 05·5	1·1	0 58·5	Idem.
149	,, 21	11 34·5	—	—	0 12·7	Idem—Thickening of line.
	Register lost from 13h. 40m. to 16h. 51m. on Oct. 21.					
	,, 22	8 52·0	—	—	0 10·0	Idem—Idem.
150	,, 24	18 18·5	—	—	0 31·2	Idem—Idem.
152	Nov. 8	1 20·5	—	—	0 17·5	Idem—Idem.
	,, 8	22 14·2	22 40·6	1·75	1 24·9	Idem.
153	,, 19-20	23 53·5	—	—	0 09·5	Idem—Thickening of line.
	,, 15	6 35·0	—	—	0 01·0	Idem—Idem.
155	Dec. 4	7 21·8	—	—	0 56·0	Idem—Idem.
156	,, 10	12 47·5	—	—	0 51·0	Idem—Idem.
157	,, 17	5 51·6	6 08·2	1·5	1 12·2	Idem.
	,, 17	10 03·8	—	—	0 56·0	Idem—Thickening of line.

Mean scale value 1mm. = 0″·50.