

$\phi = 18^{\circ} 53' 36'' N$; $\lambda = 72^{\circ} 48' 54'' E$; $h = 11$ metres. Subsoil--Trap.
Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph (E.-W.)



	V	T ₀ .	€	$\frac{r}{T_0^2}$
AE	20	32		

Date.	Phase.	Time G. M. T.	Period (Sec.)	Ampli- tude (H) AE.	Remarks.	Date	Phase.	Time G. M. T.	Period (Sec.)	Ampli- tude (H) AE.	Remarks.
1923.		H. M. S.				1923—contd.		H. M. S.			
Jan. . .	No Seismic disturbance was recorded during the month					April 23rd	Pe	3 31 6	..	..	Maximum can- not be deter- mined as the movements are very small.
Feb. 2nd	Pe	1 1 43	..	..	Maximum can- not be deter- mined as the movements are very small.	„ 24th	P	22 6 21	..	..	Do.
„ 2nd	P	5 19 14	..	..			M	..	..	..	
	S	5 28 44	..	..		May 4th	P	16 43 39	..	..	360
	L	5 42 33	..	..			S	16 53 47	..	..	
„ 3rd	M	5 51 35	..	1135	Maximum can- not be determin- ed as the move- ments are very small.		L	17 16 0	..	..	
	P	16 13 25	..	..		„ 12th	M	17 24 56	..	360	
	S	16 23 50	..	..			P	1 27 52	..	..	30
	L	16 40 47	..	..			S	1 34 5	..	..	
„ 12th *	M	16 43 44	..	4900	Do.		L	1 41 56	..	..	
	Pe	2 14 55	..	..		„ 23rd	Me	1 44 0	..	30	
„ 23rd	P	6 1 37	..	..			Pe	22 49 25	..	..	40
„ 24th	P	7 46 22	..	..			S	22 58 20	..	..	
	S	7 56 29	..	..	Slight local shock probably due to blasting opera- tion in the neighbourhood.		L	23 19 13	..	..	
	L	8 16 12	..	..		„ 24th	M	23 15 19	..	40	
„ 24th	M	8 16 53	..	345		„ 25th	Fe	0 29 22	..	..	25
Mar. 2nd	P	16 58 7	..	..			S	22 30 27	..	..	
	S	17 5 29	..	..	Do.		L	22 34 16	..	..	
	M	17 26 55	..	145		„ 28th	Me	22 35 0	..	..	
„ 5th	P	13 27 43	..	..			Fe	23 4 4	..	25	
„ 7th	P	10 53 20	..	..	Maximum can- not be deter- mined as the movements are very small.	„ 28th	P	1 31 37	..	..	135
„ 16th	Pe	22 11 13	..	..			S	1 36 14	..	..	
„ 24th	P	12 46 3	..	..			L	1 38 57	..	..	
	S	12 50 56	..	..		„ 1st	M	1 40 12	..	135	
	L	12 54 52	..	..	June 1st		Fe	2 36 32	..	..	65
	M	12 56 42	..	825			P	17 35 9	..	..	
„ 28th *	e	4 17 42	..	..			S	17 43 45	..	..	
April 13th	P	15 51 41	..	..			L	17 56 7	..	..	
	M	16 12 33	..	185	„ 1st		M	18 3 58	..	65	20
„ 19th	Pe	3 19 32	..	..		„ 1st	P	20 26 7	..	..	
	S	3 24 25	..	..			S	20 34 32	..	..	
	Me	3 39 0	..	30		„ 22nd	Me	20 35 0	..	20	
							P	6 49 55	..	..	1045
							S	6 54 28	..	..	
							L	6 58 44	..	..	
							M	7 0 13	..	1045	

*From Colaba No. 1 (E.-W.) Seismograph.

Seismic Disturbances, 1923—contd.

Apparatus—Milne-Shaw Seismograph (N.-S.).

Damping Ratio 20 · 6:1.



	V	T ₀	€	$\frac{r}{T_0^2}$
AN ..	250	11·9	2·7	..

Date.	Phase.	Time G. M. T.	Period (Sec.).	Ampli- tude (h) An.	Remarks.	Date.	Phase.	Time G. M. T.	Period (Sec.).	Ampli- tude (h) An.	Remarks.
1923—contd.		H. M. S.				1923—contd.		H. M. S.			
July 1st	P	8 5 42	..	..		Sep. 1st	P	3 8 44	..	..	
	S	8 9 8	..	..			S	3 16 57	..	..	
	L	8 10 55	..	..			L	3 29 52	..	..	
	M	8 11 28	..	..		" 2nd	P	2 56 56	..	..	
" 2nd	P	2 47 16	..	..			S	3 5 11	..	..	
	S	2 50 16	..	..			L	3 18 35	..	..	
	L	2 52 2	..	..		" 2nd	P	9 37 14	..	..	
	M	3 1 29	..	..			S	9 45 29	..	..	
" 13th	P	11 22 59	..	..			L	9 58 29	..	..	
	S	11 30 50	..	..		" 9th and 10th	P	22 7 56	..	..	
	Le	11 42 39	..	..			S	22 11 3	..	..	
	M	11 46 39	..	24			Le	22 12 33	..	..	
" 22nd	P	14 30 20	..	..			M	..	..	..	Maximum can- not be deter- mined as the curve is very faint.
	S	14 40 36	..	..		" 10th	Fe	0 20 53	..	..	
	L	15 0 43	..	..		" 14th	P	8 14 26	..	..	
	M	15 3 52	..	39			M	..	..	..	Maximum can- not be deter- mined as the movements are very small.
Aug. 10th	P	2 25 21	..	..			F	8 49 21	..	..	
	S	2 27 25	..	..		" 14th	P	13 9 32	..	..	Tremors.
	Le	2 28 40	..	..			F	14 45 40	..	..	
	M	2 29 4	..	..		" 16th	P	16 45 50	..	..	
" 10th	P	16 2 44	..	..			S	16 54 35	..	..	
	S	16 6 24	..	..			M	17 4 46	..	..	
	L	16 8 39	..	..			Fe	18 8 35	..	..	
	M	16 10 0	..	..		" 17th	P	3 57 49	..	..	
" 11th	P	1 10 6	..	..			M	..	..	..	Maximum can- not be deter- mined as the movements are very small.
	M	..	..	..	Maximum can- not be deter- mined as the movements are very small.		F	4 27 34	..	..	
	Fe	1 35 7	..	..		" 17th	P	7 14 12	..	..	These times are as shown by Omori instru- ment. Milne- Shaw record is lost while changing pho- tographic pa- pers.
" 12th	P	10 22 37	..	..			S	7 18 57	..	..	
	M	..	..	..	Maximum can- not be deter- mined as the movements are very small.		L	7 22 29	..	..	
	F	10 46 41	..	..			M	7 23 31	..	410	

Seismic Disturbances, 1923—*contd.*

Date.	Phase.	Time G. M. T.			Period (Sec.).	Ampli- tude (h) An.	Remarks.	Date.	Phase.	Time G. M. T.			Period (Sec.).	Ampli- tude (h) An.	
1923— <i>contd.</i>		H.	M.	S.				1923— <i>contd.</i>		H.	M.	S.			
Sep. 21st	Pe	20	13	51	..	..	Tremors.	Oct. 7th*	P	3	39	43	..	..	
	F	20	41	36	..	..			S	3	47	53	..	..	
" 22nd	P	20	51	58	..	..			L	4	2	44	..	..	
	Se	20	55	58	..	..			M	4	4	13	..	..	
	L	20	59	10	..	..		" 10th	P	7	22	36	..	..	
	M	21	2	30	..	..			S	7	31	43	..	..	
" 23rd	P	3	23	29	..	..			L	7	48	13	..	..	
	S	3	26	55	..	..			M	7	57	40	..	..	
	L	3	28	31	..	..		" 15th	P	7	49	11	..	..	
	M	3	32	46	..	..			S	8	0	52	..	..	
	Fe	3	47	31	..	..			M	8	28	7	..	30	
" 26th	P	8	33	58	..	..			F	9	43	37	..	..	
	S	8	42	28	..	..		" 20th	P	3	24	44	..	..	
	L	8	55	58	..	..			S	3	29	46	..	..	
	M	9	2	23	..	..			L	3	33	51	..	..	
	F	10	10	43	..	..		" 22nd	M	3	36	56	..	14	
" 27th	Pe	7	10	24	..	..			P	7	4	18	..	..	
	S	7	17	54	..	..			S	7	8	18	..	..	
	L	7	27	54	..	..			Le	7	11	16	..	..	
	Me	7	39	9	..	..			M	7	11	21	..	..	
" 29th	Pe	7	7	58	..	..		" 28th	P	9	33	24	..	..	
	M	..	..	..	..	..	Maximum can- not be deter- mined as the movements are very small.		M	..	..	..	..	..	Maximum can- not be deter- mined as the movements are very small.
" 30th	P	1	33	16	..	..		Nov. 2nd	P	21	20	22	..	..	
	S	1	43	41	..	..			S	21	30	35	..	..	
	M	2	15	0	..	..			L	21	46	22	..	..	
	Fe	4	22	41	..	..		" 3rd	M	21	52	7	..	32	
" 30th	P	23	14	37	..	..	Tremors.	" 3rd	F	1	20	35	..	..	
	Fe	23	31	37	..	..		" 3rd	P	16	28	36	..	..	
Oct. 1st	P	8	19	9	..	..			S	16	36	27	..	..	
	S	8	21	35	..	..			M	16	49	52	..	67	
	L	8	22	35	..	..		" 4th	F	18	19	0	..	..	
	M	8	24	1	..	..			P	0	16	51	..	..	
	F	9	27	35	..	..			S	0	27	9	..	..	
" 2nd	Pe	11	22	54	..	..		" 4th	M	0	27	13	..	23	
	S	11	26	46	..	..			P	20	16	7	..	..	
	L	11	29	39	..	..			S	20	25	52	..	..	
	M	11	30	0	..	..		" 5th	M	20	25	56	..	..	
	F	11	54	31	..	..			F	21	39	0	..	..	
" 3rd	P	16	12	20	..	..			P	21	37	12	..	..	
	Se	16	19	27	..	..			S	21	45	4	..	..	
	L	16	29	57	..	..		" 6th	L	21	56	59	..	..	
	Me	16	31	44	..	..			M	22	4	10	..	77	
	F	16	55	2	..	..		" 6th	F	1	29	0	..	..	
								" 6th	From	18	19	0	..	..	
									To	19	19	0	..	..	Tremors.

* From Colaba No. 1 (E—W) Seismograph.

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Date.	Phase.	Time G. M. T.			Period (Sec.).	Ampli- tude (h) An.	Remarks.	Date.	Phase.	Time G. M. T.			Period (Sec.).	Ampli- tude (h) An.	Remarks.
1923— <i>contd.</i>		H.	M.	S.				1923— <i>concl'd.</i>		H.	M.	S.			
Nov. 6th— <i>contd.</i>	From	19	36	0	..	..	Tremors.	Dec. 4th— <i>contd.</i>	M	9	48	14	..	..	
	To	20	39	0	..	..			F	10	1	0	..	..	
" 12th	From	12	24	0	..	..	Tremors.	" 5th	P	21	5	22	..	..	
	To	13	9	0	..	..			S	21	12	17	..	..	
" 17th	P	3	16	50	..	..			L	21	21	19	..	..	
	S	3	22	42	..	..			M	21	28	1	..	..	
	M	3	46	39	..	..		" 5th	P	22	44	23	..	..	
	F	4	22	0	..	..			S	22	51	42	..	..	
" 18th	P	21	37	57	..	..			L	23	4	12	..	..	
	S	21	44	42	..	..			M	23	6	5	..	..	
	L	21	52	47	..	..		" 6th	F	0	14	0	..	..	
	M	21	56	50	..	31		" 7th	From	16	32	0	..	..	
	F	23	7	0	..	..			To	16	54	0	..	..	Tremors.
" 19th	P	2	34	14	..	..		" 7th	From	23	53	0	..	..	
	S	2	37	20	..	..		" 8th	To	0	34	0	..	..	Tremors.
	M	2	46	16	..	..		" 8th	P	17	25	0	..	..	
	P	3	3	37	..	..			F	17	47	0	..	..	Tremors.
" 21st	Pe	13	34	22	..	..		" 8th	From	19	34	0	..	..	
	M	13	41	58	..	..			To	19	55	0	..	..	Tremors.
	F	14	9	0	..	..		" 10th	..	21	0	0	..	..	Do.
" 22nd	From	7	30	0	..	..	Tremors.	" 11th	P	5	11	10	..	..	
	To	7	33	0	..	..			F	5	58	0	..	..	Tremors.
" 22nd	Pe	7	36	10	..	..		" 14th	From	11	44	0	..	..	
	M	7	48	17	..	..			To	12	54	0	..	..	Tremors.
" 25th	P	17	12	9	..	..		" 15th	P	22	10	25	..	..	
	S	17	13	54	..	..			S	22	11	49	..	..	
	M	17	31	13	..	..			M	22	12	6	..	..	
	F	18	14	0	..	..			F	22	28	0	..	..	
" 26th	P	12	27	52	..	..		" 16th	P	11	54	55	..	..	
	S	12	35	16	..	..			S	11	56	25	..	..	
	L	12	45	37	..	..			L	11	57	51	..	..	
	M	12	46	9	..	13			M	11	58	0	..	..	
	F	14	9	0	..	..			F	12	29	0	..	..	
" 28th	P	16	12	36	..	..		" 20th	P	15	18	10	..	..	
	S	16	16	6	..	..			S	15	22	6	..	..	
	M	16	16	9	..	..			L	15	24	17	..	..	
	L	16	18	6	..	..			M	15	26	17	..	..	
	F	16	29	0	..	..			F	15	54	0	..	..	
" 29th	P	3	39	18	..	..		" 22nd	..	11	0	0	..	..	Tremors.
	S	3	43	11	..	..		" 27th	..	14	0	0	..	..	Do.
	L	3	45	48	..	..		" 28th	P	22	29	35	..	..	
	M	3	49	18	..	..			S	22	33	24	..	..	
	F	4	21	0	..	..			L	22	35	50	..	..	
Dec. 4th	Pe	9	47	38	..	..			M	22	37	20	..	8	
	S	9	48	57	..	..			F	23	21	0	..	..	