Earthquake Records by Milne Seismograph Meridian Boom. Stonyhurst College Observatory.

Lat. 53° 50′.7 *N., Long* 2° 28′.2 *W., Above Sea,* 363 *feet.*

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Abbreviations on the other side.

International Seismological Centre

Date 1913	P 1 H. M.	P 2 H. M.	P 3 H M.	Maximum H. M.	2 A mm	End H. M.	Boom Deviation, 1 mm = 220″ arc Boom Period = 18.5 sec Pillar Inclination 1 mm = 0.43″ arc
Jan.							January
5	17 43.6 e	–	18 10.5 i	18 20.5	.5	18 56.	
7	23 9.5 e	–	23 42.5 e	23 43.8	1.6		
"	–	–	–	50.8	2.0	25 18.	
8	–	–	20 7.5 e	20 9.7	.5	20 23.	
9	3 19.8 e	–	3 41.5 e	3 48.3	2.0	5 15.	
10	6 5.5 e	–	–	–	–	6 15.	Small tremors.
"	8 16.6 e	–	8 24.1 e	8 26.	.3	8 40.	
11	13 14.? e	13 29.2 i	13 42.0 i	14 26.7	3.8		
"	–	–	–	29.7	4.0	16 42.	
15	9 4.1 e	19 13.9 i	–	19 40.	.5	20 37.	
19	17 18.6 e	17 30. i	–	18 2.5	1.2		
"	–	–	–	18 6.0	1.2		
"	–	–	–	19 35.	.4	20 31.	
"	23 50. e	–	–	24 42.2	.4		
"	–	–	–	24 51.	.4	25 25.	
20	15 42.2 e	16 2.5 i	16 24.2 e	16 26.	.3		
"	–	–	–	16 34.	.4	17 3.	
Feb.							February
15	21 44.4 e	–	–	21 53.6	< .1	22 20.	
20	9 12.4 e	9 21. i	–	9 48.	.6	11 41.	
23	3 16.4 i	..	3 40.	3 46.	.2	4 39.	

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March							March
1	15 7.7 i	—	15 22.4 i	15 32.3	.2	?	In tremors
6	Tremors	—	2 44.9 i	2 48.5	.6		
"	—	—	—	2 52.5	.5	?	"
8	Tremors	16 19.5 i	16 38.5 e	16 50.	.6	?	"
14	9 0.9 i	9 9.8 i	9 31.8 i	9 48.7	8.0		
"	—	—	—	10 2.3	7.1	12 47	
19	18 58. e	—	—	19 45.	.1	?	Tremors
23	21 12 i	—	—	21 48.9	.5	23 22.	
26	22 35. e	—	—	22 56.	< .1	23 10.	
27	3 38.3 e	—	—	3 43.4	< .1	4 34.	
31	4 1.5 i	—	4 24.9?	4 29.7	1.5		
"	—	—	—	34.4	1.4		
"	—	—	—	40.6	1.4	7 37.	
"	23 7.6 e	—	—	23 30.5	< .1	23 48.	
Apr.							April
3	—	—	0 34.8 e	0 49.5	.3	1 20.	
7	—	14 36.6 i	—	14 49.	.5	15 42.	
8	3 8.4 e	—	—	3 21.7	.1	3 36.	
9	18 19. e	—	—	18 53.5	.5		
"	—	—	—	19 5.8	.5	20 28.	
11	0 12. e	—	—	0 22.7	< .1	0 42.	
13	7 4.2 i	—	7 26.4 i	7 31.	.9		
"	—	—	—	36.8	1.6	10 13	
14	8 13.2 e	—	8 34.5?	8 40.8	1.0		
"	—	—	—	48.0	.7	9 20.	
18	—	—	—	14 22.0	.5	—	In tremors
"	19 19.5 e	19 30.4 e	19 54.0?	20 11.5	1.9	?	
20	3 27.6 e	—	—	3 36.5	.2	4 1.	
24	Tremors	—	13 12. e		.3		
"	—	—	—	13 16.	.1		
"	—	—	—	24.	.2	14 49.	
25	18 21.× e	—	—	36.			×May be P_2
"	—	—	—	19 0.	2.9		
26	4 34.5 e	4 46.2 e	5 5. e	6.6	3.0	22 21.	
28	4 20.7 e	—	—	5 21.5	.5	6 7.	Gale of wind
"	19 21. e	—	—	4 29.2	.1	5 5.	
29	—	—	4 2.5 e	19 38.5	.3	20 18.	Times approximate, shutter failing.
30	Tremors	0 0.7 e	—	4 6.	.2	4 32.	
"	"	—	—	0 15.5	.2		
"	At change	—	—	28.4	.1	1 33.	
"	—	—	—	12 20.2	.5		
"	—	—	—	32.	.6		
"	—	—	—	36.4	.6	13 54.	

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Boom Deviation, 1 *mm* = 220 " *arc*
Boom Period = 18.5 *sec*
Pillar Inclination 1 *mm* = .42 " *arc*

Date 1913	P 1 H.	M.	P 2 H.	M.	P 3 H	M.	Maximum H.	M.	2 A *mm*	End H.	M.	
May												May
6		–	2	17.5 e		–	2	21.5	.1	2 5		
7		–		–	0	50. e	0	53.5	.1 x			= for 10 minutes
8	19	0.8 e		–		–	19	59.6	.4			
"		–		–		–	20	6.2	.4			
"		–		–		–	20	33.	.4	21	48.	
9		–			17	18.5 e	17	26.5	.2	17	41.	
"		?	22	19.0 i		–	23	27.	.1	23	41.	
18	2	28.6 e		–		–	5	12.7	1.0			
"		–		–		–		24.5	.9			
"		–		–		–		28.5	.9	4	48.	
20	4	42.5 e		–		–	4	53.0	.2	5	0.	
23	14	32. e		–		–	15	12.	.5	16	0.	
24		–	23	50.4		–	24	23.	1.2			
–		–		–		–		28.	1.2	25	55	
29	13	53.5 e		–		–	14	27.	.5			
"		–		–		–		33.	.6	14	57	
30		–	12	13.5		–	13	10.1	4.8			
"		–		–		–		17.2	2.9	15	37	
June												June
4	1	38.2 e		–		–	1	52.	.1	2	5.	
"	10	26. e		–		–	11	15.8	.7	12	56.	
13		?		–		–	3	51.	.1	5	26.	
14	9	02		–		–		–	–	9	25.	see following
"	9	25. i	9	40. i	9	46.	9	47.1	8.0			
"		–		–		–		51.5	8.0			
"		–		–		–		52.8	6.2			after
"		–		–		–		54.0	5.0	11	0.	
22	14	5.1 e	14	14.2 i	14	24.2 i	14	43.	1.2			
"		–		–		–		59.	1.2	17	31.	
26	5	20.7 i	5	42.3 i		?	6	27.7	7.3			
"		–		–		–		36.7	5.0			
"		–		–		–		44.4	4.5			
"		–		–		–		47.2	4.2			
"		–		–		–		51.0	6.7			
"		–		–		–		56.2	7.1			
"		–		–		–	7	2.6	8.2			after
"		–		–		–		15.4	4.9	11	50.	
"		–		–		–						
28	9	4.6		–		–	9	9.7	.5	9	58.	

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Boom Period = 18. *sec*
Pillar Inclination 1 *mm* = .44 *arc*

Date 1913	P 1 H. M.	P 2 H. M.	P 3 H M.	Maximum H. M.	2 A mm	End H. M.	
July							
1	5 14.5	—	—	5 20.	< .1	5 37.	July
5	20 39.5 i	—	—	20 46.6	< .1	21 10.5	
6	—	—	8 16.5 i	8 18.0	.2	8 53.	
"	16 44. i	—	—	17 20.8	.5	18 53	
7	15 19.2	—	—	—	—	15 54.	
"	18 0.8 i	—	—	19 0.	.6		
"	—	—	—	49.5	.4	20 27.	
8	—	—	9 15. i	9 16.5	.1	10 45.	
"	22 39.7 e	—	—	23 32.5	.1		Two quakes together
"	—	—	—	24 46.6	.5	25 49.	
12	10 47. e	—	—	11 35.	.5	13 45?	
22	—	7 10.6	7 47. e	7 53.	.2		
"	—	—	—	8 5.	.2	9 52.	
25	13 1.4 e	13 5.4 e	13 17. e	13 22.	.5	14 2.	
26	—	20 58.3 e	21 0. e	21 1.3	1.2	21 39.	
28	6 0. e	—	6 29.8 e	6 34.1	2.1	8 27.	followed by small tremors till noon.
"	13 26.6 e	13 33.1	13 36.5 e	13 39.8	1.0	14 20.	Preceded by tremors beginning 12 45.
Aug.							August
1	17 33. i	—	—	17 59.	2.0		
"	—	—	—	18 5.	2.2	20 38.	
5	2 23.7 e	—	—	2 35.5	< .1	3 12.	
6-7	22 27.4 i	22 38. i	23 3.5 i	23 5.5	9.0		Followed by small tremors till 28h 47m
	—	—	—	12.7	13.5	27 35.	
13	4 45. e	—	—	5 41.5	.8	7 38.	
15	19 28. e	—	—	20 17.5	.4	21 8.	
31	0 13. e	—	—	0 17.	.5	0 44.	
"	7 14.3 e	—	—	7 35.5	.1		
"	—	—	—	49.	.1		
"	—	—	—	58.	.1	8 7.	
"	17 56. e	—	—	18 32.	.5	19 45.	

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Sept.												
1	22	2.0 e					22	14.0	0.2	22	52.	September
2	20	5.8 e	{ Preceded by tremors				20	27.	.1	21	27.	
3	21	14.5 e	–	–			22	8.5′	.4			
"		–	–	–			"	14.8	.6			
"		–	–	–			"	19.2	.6			
"		–	–	–			"	31.7	.5′			
"		–	–	–			"	40.6	.4	24	6.	
10	8′	11.0 e	–	–			8	14.7	< .1	8	36.	
16		–	–	–			12	32.	.2			P, during change
"		–	–	–			"	35.5′	.2	13	23.	
26	23	1. e	–	–			23	10.5′	.1	24	2.	
30	7	47. e	–	–			7	53.5′	.5′	8	36.	
Oct.												
2	4	38.9 e	4	46.6 i	5′	3.8 i	5′	10.7	2.0	7	15′	October
"	17	42.1 e					17	46.2	< .1	17	49.	
3	1	2.5′ e					1	20.	< .1	1	33.5′	
"	10	20.2 e					10	36.	.5′	10	53.	
4	22	23.5′ e					22	52.	.1	23	28.5′	
9	19	1.6					19	25′	.1	19	47.5′	
"	22	34.2					22	46.4	.1	23	21.	
"	23	44.					24	16.7	< .1	25′	3.	
11	2	5′? e					2	53′.7	1.3	?		Amongst tremors
"		?					5′	28.2	1.5′	?		do.
"		?					10	5′.1	1.5′	after 11h		
12	17	27.4 e					17	54.	.3	19	10.	
14	6	58. e					7	31.5′	.2			
"							"	37.5′	.1	8	0.	
"	8	29. e					9	13.?	1.1	11	34.	Very irregular
"	22	30.2 e					22	49.5′	< .1	23	25′.	

Instrument out of action from 19th to 29th

Rev. W. Sidgreaves S. J.

JAN 21 1914.

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Nov.							November
10	21 31.6 e	—	—	22 42.1	1.9		
"	—	—	—	" 47.5	1.9	24 42.	
15	5 16.5 ?	—	—	6 50.5	.2	7 55?	In tremors
19	3 46.	—	—	4 39.1	1.0	6 0.?	" "
23	?	21 39.1 e	21 57.0 i	22 9.	.1		
"	—	—	—	" 46.	.1	27 35	
29	—	2 19.3 i	—	2 38.5	.3	?	In tremors
30	—	—	14 18. e	14 25.5	.1	14 42.	
Dec.							December
5	12 49.3 e	—	—	—	—	14 30.	In tremors
6	15 19.8 e	—	—	15 35.6	.3	?	" "
15	—	—	—	17 40.7	—	—	
"	18 6.5 e	—	—	18 34.3	.3	18 56.	
21	15 59.5 e	16 8.2 i	16 21.5 e	16 28.5	2.0	18 32.	
29	8 37.	—	—	9 13.5	.6	11 13.	With 11 other
"	—	—	—	—	—	—	nearly equal
"	—	—	—	—	—	—	max^a between
"	—	—	—	—	—	—	9 and 11 15 hh.

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