

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

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

Time, Greenwich, 0 or 24 = Midnight.

Abbreviations on the other side.

Date 1916	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 = 22.0 " arc Boom Period = 2.0 sec Pillar Inclination 1 mm = 0.38 " arc
Jan 1	13 29.5 c	13 41.8 c	-	14 39.4	15.7	23 3.	January
13	6 44.2	-	-	7 21.7	2.1	] From 3 rd 16 th Clock motor out- of order.	
"	-	-	-	22.6	2.8		
13	In preceding	-	-	9 26.2	17.9		
"	-	-	-	34.4	18.0		
13	In preceding	-	-	10 33.7	9.2	after 12 th	
13	-	-	-	22 52.	.2		
14	7 24. c	-	-	7 38.	.2	] 8 26.	
15	tremors	-	-	6 44.	.4		
19	24 7 0.8 c	20 0.5 c	-	20 16.8	12.6	10 40.	
24	7 0.8 c	-	-	7 14.2	5.8	9 20.	
26	7 42.3 c	7 46.1 c	7 48.2 c	7 49.2	.9	15 32.	
26	13 6.4 c	-	-	14 27.5	.1	15 46.	
27	15 5.5 c	-	-	15 9.6	.5	23 0.	
30	21 23. c	-	-	21 53.8	1.5	22 55.	
31	18 27.8 c	-	-	19 6.0	1.5		
Feb. 1	7 34. c	8 0.6 c	8 27. c	8 35.8	5.0	11 28.	February
2	22 1.3 c	22 27.1 c	-	22 32.6	.3	22 53.	
5	-	-	-	15 27.	.1		
6	-	-	-	11 26.	.2		
6	22 2.0 c	-	-	22 45.6	4.2	25 25	
7	-	-	-	20 23.5	-		
8	-	-	-	1 6.8	.2		
8	15 53.1 c	15 59.2 c	-	16 25.2	.2	17 0.	
9	-	-	-	20 47.0	-		
10	2 44.4 c	-	-	2 57.5	.3		
11	8 53.8 c	-	-	9 15.1	.1		
14	10 29.5	-	-	11 10.2	1.0		
14	-	-	-	18 41.0	.1		In tremors
20	?	18 8.5 c	-	18 40.2	1.9	21 15.	
22	-	-	-	20 25.	.1		
27	20 33.0 c	20 43. c	-	21 2.8	5.8	] 24 42.	
"	-	-	-	6.6	6.1		
"	-	-	-	9.3	6.9		
Mar. 4	8 9.0 c	-	-	8 30.	.3	9 20.	March
11	-	-	-	19 4.2	.1		
12	-	-	-	0 56.6			
12	7 44.8 c	7 54. c	8 8.3 c	8 17.8	.6		
13	-	-	-	0 20.5			
16	-	-	-	23 20.6			
18	0 36.3 c	0 42.3 c	-	0 49.5			
19	13 1.0 c	-	-	13 13.8			
19	-	-	-	23 42.4			
20	-	-	-	0 45.			
22	-	-	-	12 32.5			
26	Lost in tremors	-	-	0 51.0	1.0		
29	19 32.7 c	-	-	19 39.	.2		
30	2 31.0 c	2 34.3 c	-	2 39.7	.2		
Rev. W. Sidgreaves, S. J.							

ABBREVIATIONS.

P₁ P₂ P₃ = 1st, 2nd and 3rd phases (arrivals).

M.—Maximum.

A.—Amplitude. Greatest Displacement.

i.—(Impetus). Sudden shock. Well defined.

e.—(Emersio). Emerging. Gradual Development. (Quoted time therefore not certain).

In.—(Initium). Commencement, without statement of phase.

Roman Numerals in the margin for days of the month.

× —Reference to date in margin.

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

Time, Greenwich, 0 or 24 = Midnight.

Abbreviations on the other side.

Date 1916	P ₁		P ₂		P ₃		Maximum		2 A	End		Boom Deviation, 1 mm = 220" arc Boom Period = 20 sec Pillar Inclination 1 mm = 0.38" arc
	H.	M.	H.	M.	H.	M.	H.	M.	mm	H.	M.	
Apr. 5	21	4.80	-	-	-	-	21	25.8	.5	22	9	April
7	8	42.40	8	46.80	8	56.80	9	28.0	2.3			
7	-	-	second shock?				10	46.7	1.1	13	12	
11	-	-	In tremors				3	16.	.2			
15	-	-	12	58.70	-	-	13	41.7	1.0	16	20	
16	-	-	-	-	-	-	23	21.5	.1			
18	-	-	In tremors				1	48.	.1			
18	4	16.30	do.				4	51.6	1.6	6	52	
21	11	7.80	-	-	-	-	12	33.	2.0			
26	2	37.10	2	44.00	-	-	3	4.8	4.1	5	24	
26	6	49.00	-	-	-	-	7	10.	.5			
May	Instrument out of working order all through the month											May
June 1	-	-	-	-	-	-	15	14.7	.4			June
5	-	-	-	-	-	-	2	6.5	.1			
9	21	47.50	-	-	-	-	22	31.	.5			
15	11	40.00	-	-	-	-	12	29.5	.4			
"	-	-	-	-	-	-		34.8	.4			
"	-	-	-	-	-	-		38.4	.5			
16	-	-	-	-	-	-	0	31.	.1			
19	1	40.60	-	-	-	-	2	5.5	.6			
19	-	-	-	-	-	-	4	29.	.1			
19	-	-	-	-	-	-	4	38.	.1			
21	21	45.50	-	-	-	-	22	2.6	1.0			
"	-	-	-	-	-	-		26.0	.7	24	0.	
25	18	56.30	-	-	-	-	19	12.7	.2	19	31.	
July 15	-	-	-	-	-	-	0	32.5	.1			July
15	-	-	-	-	-	-	8	12.5	.4			
16	18	38.20	-	-	-	-	19	5.3	.5			
23	-	-	-	-	-	-	11	20.5	.1			
28	Between hks 18, 19								.5			
Aug. 3	1	52.50	-	-	-	-	2	38.	2.1			August
3	-	-	-	-	-	-	3	26.5	1.0	4	40.	
8	4	47.40	-	-	-	-	5	18.6	.6	5	59	
16	7	10.00?	-	-	-	-	7	15.1	1.9	7	58	
16	-	-	-	-	-	-	8	23.6	.2	8	34	
25	9	57.40	10	7.90	-	-	10	36.2	1.2	13	5	
27	23	21.20	23	28.60	-	-	23	36.1	.6	24	11	
28	?	-	6	49.50	-	-	7	22.5	8.6			
"	-	-	-	-	-	-	8	17.6	6.7	11	0.?	

Many other disturbances of less than 2 A = .1 mm have been included in reports sent to Shide.

Rev'd W. S. ...

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

Time, Greenwich, 0 or 24 = Midnight, Subsoil. Millstone Grit.

Abbreviations on the other side.



Date	P ₁	P ₂	P ₃	Maximum	2 A	End	Boom Deviation	Boom Period	Pillar Inclination
	H. M.	H. M.	H. M.	H. M.	mm	H. M.	mm		
1921									
Oct									
1.	21. 26					22. 17			October.
10	2. 26.5			2. 38.5	0.7				Very small
	3. 5.4			3. 24.5	0.9				
				4. 23.0	0.6	4. 40			
	12 th - 13 th			No Record.					
14.	17. 4.5			17. 25	1.0				
				17. 31	1.0	18. 31			
15.	5. 20.3	5. 33.8	6 8.4	6. 32.0	1.9				
				6. 54.0	1.3				
				7. 2.0	2.0	8. 36			
18	1. 51.3					2 33			Very small
20.	6. 16.3	6 20.0	6 26.7	6. 27.9	1.1				
				6. 24.8	1.1				
				6. 34.0	0.9				
				6. 54.3	1.0				
				6. 56.9	1.0	8. 44			
21	22. 30			22. 31.5	0.3	22. 39			
25	1. 26.6			1. 48	0.5	2. 19			

Nov 1 st - 26 th Instrument dismantled									
Dec									
1	18. 51								Small
6	13. 42.5			13. 50					
8	14. 1.5			14. 7					" doubtful
	17. 48.3					20. 6			very small
	Strong Micros. probably due to wind, blowing from 17 th - 18 th .								interpret ⁿ difficult.
18	15. 40.8	15. 44.2	15. 50.0	15. 51.5	2.0				
				15. 57.7	2.3				
				16. 0.5	2.3				
				16. 7.5	1.8				
				16. 13.5	1.6				
				16. 18.5	1.0				
				16. 20.0	1.0	18. 0			
20 - 27	No Record.								

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Howland S.J.
Observer.