

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 1914	P ₁		P ₂		P ₃		Maximum		2 A	End		Boom Deviation, 1 mm = 2.2 arc Boom Period = 1.8 sec Pillar Inclination 1 mm = .44 arc
	H.	M.	H.	M.	H.	M.	H.	M.	mm	H.	M.	
Jan ²												January
2	15	39.2 e	-		-		15	57.	0.1	-		
3	18	47. e	-		-		19	16.5	.2	20	5.	
6	-		-		-		2	23.5	1.0	-		Many other max ^a
"	-		-		-		-		-	-		
12	9	51.2 e	-		-		10	18.5	.7	11	0	
14	16	29.	-		-		-		-	17	14.	tremors
15	19	51. e	20	8.9 e	-		20	33.2	.2	21	30.	
20	10	23.5 e	-		-		10	33.3	.1	10	45.	
"	in charge		-		-		12	51.8	.9	14	2.	
26	23	23.7 e	-		-		23	48.2	.1	24	46.	
30	3	54.8 e	4	3.9 -	4	34.	4	40.	18.0	9	20.	
Feb												February
6	8	4. e	-		-		9	6.	.1	after 11.		
7	7	12. e	-		-		7	39.	.5	after 11		
24	21	57.4 e	-		-		22	17.4	.1	22	45.	
26	5	8.6 e	5	18. e	-		5	20.4	1.0	7	57.	
"	-		-		-		5	47.	1.0			
28	5	22.7 e	-		-		5	47.	.3	6	33.	
Mar.												March
4	16	1.5 e	16	28. e	-		17	4.5	.2	18	0.	
"	19	2.5 e	-		-		19	47.1	.2	21	50.	
6	19	4.8 e	-		-		19	44.	.6	21	0.	
7	8	32. e	-		-		8	43.5	.1	8	50.	
14	20	10. e	20	23.2 e	-		20	47.1	2.3	-		followed by trs for 14 hours
"	-		-		-		"	54.7	2.0			
18	2	54. e	-		-		5	4.	.6	7	34.	tremors
20	-		23	34.3 e	-		23	43.3	.2	23	54.	
24	16	32. e	-		-		16	58.	.1	17	33.	
25	-		-		-		10	16.5	.6	-	-	In tremors. Trace lost between 9 17 and 10 h.

Rev^d W. Sidgreaves S. J.

APR 20 1914

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International Seismological Centre

Date 1914	P ₁		P ₂		P ₃		Maximum		2 A	End		Boom Deviation, 1 mm = 22.5 arc Boom Period = 19 sec Pillar Inclination 1 mm = .41" arc
	H.	M.	H.	M.	H.	M.	H.	M.	mm	H.	M.	
<i>March</i>												
27	1	16.4 i	-	-	-	-	1	34.	.2	2	48	
30	0	52.9 i	1	6.4 i	-	-	1	25.1	3.8			
"	-	-	-	-	-	-	30.2	2.7		-	-	End in tremors
<i>April</i>												
11	16	49.2 e	17	9.0 e	-	-	17	46.	1.7			
"	-	-	-	-	-	-	49.6	1.9		19	56.	
14	-	-	-	-	-	-	9	11.5	.3	-	-	In tremors
20	13	41.8 e	13	51.8 i	14	10.2 i	14	13.	1.0	17	6.	
28	12	19.4 e	12	25.3 e	-	-	12	35.7	.2	12	55.	
<i>May</i>												
1	6	8.5	-	-	-	-	7	16.0	.2	7	48.	
9	0	44.4 e	-	-	-	-	1	44.	.2	-	-	Tremors till noon
15	-	-	-	-	-	-	20	47.5	.2			
19	0	2.8 e	-	-	-	-	1	0.0	.4	2	7.	
"	5	29.5 e	-	-	-	-	5	56.5	.4	7	0.	
20	0	26.5 e	-	-	-	-	0	59.5	.1	1	27.	
21	8	47.	-	-	-	-	9	2.6	.3	9	40.	
26	14	43.3 e	14	53.	-	-	15	41.x	10.0	19	38.	No pronounced Max.
"	x Many other maxima nearly equal.											
28	3	35.4 i	3	45.5 i	4	0.5 i	4	4.	3.7	6	20	
"	-	-	-	-	-	-	18	46	.5	-	-	
29	5	0.7 e	-	-	-	-	5	50.	1.0			
"	-	-	-	-	-	-	54.	1.1		8	0.	
<i>June</i>												
5	9	28.5 e	-	-	-	-	10	16.1	.1	-	-	Out of order from 8 th to 16 th
18	21	41. e	-	-	-	-	21	49.	.2	22	37	
20	7	42.6 e	8	1.6	8	30.7	8	39.	1.1			
"	-	-	-	-	-	-	42.	.9				
"	-	-	-	-	-	-	51.5	.8		10	30	
21	-	-	0	21.4 e	-	-	1	8.	.2	1	52.	
"	9	16.	-	-	-	-	-	-	-	9	39.	Tremors
23	3	49.5	-	-	-	-	4	16.0	.2	4	33.	
26	19	21.5 i	19	26. i	19	32. i	20	13.7	7.0			
"	-	-	-	-	-	-	19.4	5.6		23	6.	
27	4	42. e	-	-	-	-	5	9.7	<.1			
"	-	-	-	-	-	-	5	40.3	<.1			Probably four shocks.
"	-	-	-	-	-	-	6	15.8	.5			
"	-	-	-	-	-	-	6	50.	.5	8	7.	

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Date 1914	P ₁		P ₂		P ₃		Maximum		2 A	End		Boom Deviation, 1 mm = 220" arc Boom Period = 20 sec Pillar Inclination 1 mm = .38" arc
	H.	M.	H.	M.	H.	M.	H.	M.	mm	H.	M.	
<i>July</i>												
3	20	32.7 e	-	-	-	-	21	13.5	.2	22	3.	
4	18	0. e	-	-	-	-	18	44.	.4	19	35.	
5	0	4.7 e	-	-	-	-	0	58.5	.1	2	15.	
"	22	27. e	-	-	-	-	23	2.	.5	24	25.	Times approx. Watch failed
"												do.
6	6	55. e	-	-	-	-	7	33.	.7	-	-	do.
8	22	1.4 e	-	-	-	-	22	6.4	.1	-	-	
12	-	-	-	-	-	-	22	29.5	-	-	-	Watch away
14	3	35. e	-	-	-	-	4	14.5	.5	5	33.	do.
17	7	19. e	-	-	-	-	7	53.	.6	10	36.	
"	-	-	-	-	-	-	"	57.5	.7			
21	22	52. e	-	-	-	-	23	10.	.5	23	42.	

<i>Aug.</i>												
4	22	51.4 i	23	0.4 i	23	13.2 i	23	21.5	13.8	25	43.	The two entries for P ₂ seem dif- ferent phases.
"	-	-	"	3.4 i	-	-	-	-	-	-	-	
5	10	56.5 i	11	9.2 i	-	-	11	15.6	.8	-	-	Many equal maxima.
6	4	36. e	-	-	-	-	-	-	.2	6	33.	
8	19	32.5 e	-	-	-	-	19	54.2	.5	21	18.	
"	-	-	-	-	-	-	"	58.5	.5			
11	-	-	-	-	-	-	6	41.2	.2	-	-	
"	-	-	-	-	-	-	"	47.5	.1			
14	20	15.5	-	-	-	-	20	46.5	.2	21	30.	
"	-	-	-	-	-	-	"	54.0	.2			
20	-	-	-	-	-	-	10	14.5	.5	-	-	
22	5	50.6 e	-	-	-	-	6	9.5	.5	7	28.	
"	?	-	16	18.3? e	-	-	16	28.5	.6	?	?	End after 17.6
24	6	53.8 e	-	-	-	-	7	23.5	.4	8	44.	
28	8	54.7 e	-	-	-	-	9	28.7	.9	10	55.	
"	18	5.7 e	-	-	-	-	18	21.5	.6	19	0.	

Errata in last bulletin:
For June 26 read June 25
" 27 " " 26

Rev^d W. Sidgreaves S. J.

ABBREVIATIONS.

$P_1 P_2 P_3$ = 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.

x—Reference to date in margin.

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	H.	M.	H.	M.	H.	M.	H.	M.	mm	H.	M.	
<i>Sept</i>												<i>September</i>
2	20	48.e	-	-	-	-	21	30.	.2	21	53	
4	18	17.2e	-	-	-	-	18	43.5	.2	19	31	
6	0	18.2e	-	-	-	-	0	32.	.1	0	38	
10	16	39.e	-	-	-	-	17	20.1	.4	17	48	
11	At "change"		-	-	-	-	12	39.	.7	16	39	
13	2	20.e	-	-	-	-	2	23.	<.1	2	40	
15	0	15.6e	-	-	-	-	0	58.	.5	-	-	End in tremors
25	-	-	-	-	-	-	10	7.5	.2	-	-	
"	-	-	-	-	-	-	10	39.5	<.1	-	-	
"	-	-	-	-	-	-	11	22.	.6	-	-	
<hr/>												
<i>Oct.</i>												<i>October</i>
1	6	44.7e	-	-	-	-	7	5.5	.2	9	0.	
"	8	39.e	-	-	-	-	9	15.	-	-	-	
3	17	31.1i	17	38.7i	17	48.4i	17	51.2	21.9.	21	28.	
"	-	-	22	11.5i	22	16.4i	22	17.2	10.6.	-	-	
"	-	-	-	-	-	-	21.7	9.9.	-	-	-	
"	-	-	-	-	-	-	24.7	13.7	-	-	-	26 55.
6	19	45.5e	20	0.6e	-	-	20	45.4	.5	-	-	
"	-	-	-	-	-	-	21	7.5	.4	-	-	21 46
8	12	38.4e	-	-	-	-	13	11.8	.2	14	0.	
9	2	49.5e	3	2.5i	3	17.0i	3	18.3	.5	4	29.	
11	-	-	-	-	-	-	16	42.5	.2	-	-	
"	?	-	-	-	-	-	17	12.4	.2	17	23.	
14	14	58.7e	-	-	-	-	15	14.5	.1	15	36.	
17	-	-	6	31.7i	6	34.7i	6	38.8	2.9	7	16.	
21	16	35.5e	-	-	-	-	17	8.	.2	17	40.	
23	6	38.5i	6	46.5i	7	17.e	7	18.5	3.8	-	-	Interference?
"	-	-	-	-	-	-	19.5	4.0	-	-	-	
"	-	-	-	-	-	-	24.5	5.8	-	-	-	
"	-	-	-	-	-	-	28.5	3.7	-	-	-	
"	-	-	-	-	-	-	35.3	3.9	-	-	-	9 38.
24	Tremors between 12 52 713 10 of mag. .5											
27	4	13.8i	-	-	-	-	4	33.9	.3	5	54.	
28	1	0.7	-	-	-	-	1	47.2	.2	-	-	
"	-	-	-	-	-	-	50.7	.3	-	-	-	
"	-	-	-	-	-	-	2	10.	.3	-	-	3 3.

Rev. W. Sidgreaves S. J.

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	H.	M.	H.	M.	H.	M.	H.	M.	mm	H.	M.	
<i>Nov</i>												<i>November</i>
4	11	25.5e	-	-	-	-	11	45.5	.5	-	-	
"	12	31.6e	-	-	-	-	13	3.7	.2	13	27	
10	7	52.e	<i>preceded by tremors</i>				8	10.	.2	8	55	
"	-	-				8	27	.3				
16	-	-	-	-	-	-	0	50.5	<.1	-	-	<i>in tremors</i>
"	-	-	-	-	-	-	2	21.2	.1	-	-	" "
18	-	-	-	-	-	-	9	43.2	<.1	-	-	
"	9	52.e	-	-	10	24.8e	10	29.5	1.4	-	-	
22	8	44.5e	-	-	-	-	9	5.7	.4	10	56	
24	12	5.3e	12	16.4i	-	-	12	47.3	5.0	15	17	
"	-	-	-	-	-	-	"	55.	5.6			
27	14	44.1i	14	48.i	14	57.5i	14	53.6	2.7	16	23	
28	-	-	11	31.6e	11	36.7e	11	38.5	1.6	-	-	
"	-	-	-	-	-	-	"	44.7	2.0			
"	14	5.1e	-	-	-	-	14	18.	.5	14	50	

<i>Dec.</i>											<i>December</i>	
20	14	30.5e	14	57.2i	15	24.5e	15	29.3	3.0	17	12	
23	-	-	-	-	-	-	6	50.5	.1	-	-	<i>Tremors frequent</i>
25	-	-	-	-	-	-	4	17.5	<.1	-	-	
27	-	-	-	-	-	-	14	35.5	<.1	-	-	<i>Instrument out of action between 12th and 19th.</i>

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