

I have to express my indebtedness to my assistant, Mr. Thomas Maben, for his valuable services during the year.

Very many valuable reports and publications on magnetic science have been received from various British and foreign institutions and scientists, and thanks are gratefully tendered for them.

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Officer in Charge.

EARTHQUAKE RECORDS BY MILNE SEISMOGRAPH NO. 16, AT CHRISTCHURCH.

On the 11th May, 1911, the new type of recording-apparatus was installed on the Milne Seismograph No. 16. This recorder has a time-scale of 241 mm. to the hour; the former recorder had a time-scale of 59 mm. to the hour.

Date.	Commence- ment.	Max.	Max. Amplitude.	Duration.	Remarks.
1911.					
April 6 ..	H. M. 9 55.1	H. M. 10 01.3	MM. 0.3	H. M. 0 14.5	Duration uncertain owing to tremors.
" 7 ..	7 33.2	7 36.5	0.2	0 50.7	
" 8 ..	2 16.2	2 18.4	0.5	..	
" 11 ..	13 40.0	13 41.9	1.5	0 24.0	In middle of tremor.
" 13 ..	10 14.7	10 18.3	1.1	0 19.6	
" 15 ..	4 59.9	5 05.0	2.5	..	
" 21 ..	2 15.5	5 13.4	1.6	..	L.W. commence 5h. 02.5m.
" 23 ..	12 43.3	2 20.4	1.5	..	
" 26 ..	1 18.3	2 33.0	1.0	1 17.5	Duration uncertain owing to tremor.
" 27 ..	3 03.3	12 50.6	2.1	0 23.8	
May 1 ..	12 27.4	1 27.5	0.4	0 59.5	
" 20 ..	16 19.6	3 04.8	0.2	0 06.9	
" 23 ..	4 33.1	12 32.6	0.3	0 10.3	
June 3 ..	..	16 20.4	0.2	0 06.3	
" 6 ..	13 05.1	4 37.8	0.1	..	
" 7 ..	7 44.2	4 40.3	0.1	0 19.2	
" 10 ..	17 00.8	20 39.1	1.5	..	Commencement obscured by tremors.
" 12 ..	7 12.6	20 41.6	2.0	..	Duration uncertain owing to tremors.
" 15 ..	14 36.4	20 45.6	1.7	..	
" 28 ..	19 57.3	20 47.5	1.5	..	
July 12 ..	4 19.1	13 06.6	0.5	..	
" 19 ..	9 02.2	13 12.6	0.5	0 18.0	
August 6 ..	1 26.0	7 49.5	0.5	..	
" 10 ..	0 33.4	0 53.2	..	0 28.3	
" 16 ..	22 51.2	11 31.5	0.7	..	
" 19 ..	2 21.8	12 00.5	1.0	..	
September 6 ..	1 17.9	12 09.5	0.8	..	
" 12 ..	12 25.2	12 14.5	0.8	2 52.0	
" 15 ..	13 44.8	17 07.6	1.1	1 14.0	
October 5 ..	7 38.9	7 17.6	0.1	0 14.0	
November 2 ..	0 56.2	14 46.9	5.5	..	
" 16 ..	11 45.9	14 48.7	4.0	..	
" 30 ..	10 29.2	14 52.4	3.0	..	
December 3 ..	11 50.3	15 04.5	3.8	3 08.0	
" 13 ..	12 01.8	19 40.4	1.5	0 28.5	
" 23 ..	21 52.4	4 38.0	2.1	..	L.W. begin 4h. 28.2m.
January 6 ..	18 01.4	4 45.0	4.5	..	
February 25 ..	5 43.0	4 49.3	9.0	3 36.0	
March 13 ..	..	9 05.8	1.2	..	End obscured by tremors.
" 25 ..	5 07.0	9 07.3	1.0	..	
April 6 ..	9 55.1	1 28.6	0.4	0 17.5	
" 7 ..	7 33.2	0 45.9	0.4	0 31.0	
" 8 ..	2 16.2	23 18.3	9.0	..	L.W. commence 22h. 59.5m.
" 11 ..	13 40.0	23 21.7	6.0	..	
" 13 ..	10 14.7	23 23.7	6.0	..	
" 15 ..	4 59.9	23 27.4	6.2	4 40.5	
" 21 ..	2 15.5	2 24.8	0.3	0 13.0	Duration approximate.
" 23 ..	12 43.3	16 41.6	4.0	..	Duration obscured by tremors.
" 26 ..	1 18.3	1 20.7	0.6	1 12.0	
" 27 ..	3 03.3	14 07.7	1.5	..	Beginning and end obscured by tremors.
May 1 ..	12 27.4	12 25.4	0.6	..	End obscured by following quake.
" 20 ..	16 19.6	13 48.8	2.0	0 11.0	
" 23 ..	4 33.1	7 41.3	1.0	..	
June 3 ..	..	7 44.5	0.5	0 55.0	Shock at Hastings, New Zealand.
" 6 ..	13 05.1	1 01.1	2.1	0 33.0	End uncertain.
" 7 ..	7 44.2	11 47.9	1.7	..	
" 10 ..	17 00.8	11 49.6	1.8	0 11.3	
" 12 ..	7 12.6	10 33.2	11.5	0 27.0	Duration uncertain owing to tremor.
" 15 ..	14 36.4	11 52.0	4.5	0 11.7	
" 28 ..	19 57.3	12 03.2	0.9	0 01.9	Small local shock.
July 12 ..	4 19.1	22 09.0	1.1	..	End indefinite owing to tremor.
" 19 ..	9 02.2	..	..	..	
August 6 ..	1 26.0	..	..	..	
" 10 ..	0 33.4	..	..	..	
" 16 ..	22 51.2	..	..	..	
" 19 ..	2 21.8	..	..	..	
" 21 ..	16 38.0	..	..	..	
September 6 ..	1 17.9	..	..	..	
" 12 ..	12 25.2	..	..	..	
" 15 ..	13 44.8	..	..	..	
October 5 ..	7 38.9	..	..	..	
November 2 ..	0 56.2	..	..	..	
" 16 ..	11 45.9	..	..	..	
" 30 ..	10 29.2	..	..	..	
December 3 ..	11 50.3	..	..	..	
" 13 ..	12 01.8	..	..	..	
" 23 ..	21 52.4	..	..	..	
1912.	..	..	..	..	
January 6 ..	18 01.4	18 07.3	0.7	0 58.1	
February 25 ..	5 43.0	5 50.0	2.5	..	
March 13 ..	..	5 52.0	2.0	1 30.5	
" 25 ..	5 07.0	19 39.0	0.8	..	Beginning and end obscured by tremors.
" 25 ..	5 07.0	19 45.5	0.6	..	
" 25 ..	5 07.0	5 11.5	1.0	..	
" 25 ..	5 07.0	5 14.5	1.0	1 07.4	