

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

Preliminary tremors or first phase, P_1 ; second phase, P_2 ; third phase or large waves, P_3 ; duration, D amplitude, A.; air tremors, Ats. Time is Greenwich civil mean time.

Date.	Commencement.	Max.	Max. Amplitude.	Duration.	Remarks.
1910.					
April.					
1	H. m.	H. m.	Mm.	H. m.	
4	13 35.3	14 27.8	0.9	1 38.5	
8	5 23.7	..	..	0 08.2	Slight thickening.
12	Indefinite	16 55.2	0.9	Indefinite	P_1 and D. obscured by Ats.
13	0 50.3	0 50.6	1.5	1 04.4	Preceded and followed by minute Ats.
16	5 56.6	5 58.7	0.4	0 18.5	
18	Indefinite	13 09.3	..	Indefinite	P_1 and D. obscured by Ats.
20	7 34.9	..	..	0 41.0	Thickening of line.
23	22 28.5	22 49.0	..	1 14.4	Preceded by continuous Ats.
27	Indefinite	15 52.8	1.3	Indefinite	P_1 and D. obscured by Ats.
May.	2 16.3	..	..	0 35.1	Thickenings.
1	4 44.7	4 46.3	0.25	0 11.8	
5	Indefinite	18 45.7	5.5	Indefinite	P_1 and D. obscured by Ats.
6	0 57.4	1 09.8	0.2	0 41.0	
8	23 22.9	23 29.1	0.4	0 38.0	
10	18 25.2	18 34.4	0.1	0 20.0	
13	18 32.7	..	..	0 35.4	Small swellings.
15	2 33.6	2 36.2	0.3	0 12.8	
21	4 42.0	4 49.5	0.15	0 26.4	
22	22 58.3	23 07.5	0.2	0 22.5	
29	6 48.1	7 10.6	0.4	1 11.2	Minute tremors, possibly Ats.
29	8 38.4	..	..	1 26.1	Slight swellings.
31	11 12.2	..	..	0 06.1	
31	5 19.8	5 21.3	0.15	0 06.6	
31	5 32.6	6 01.8	..	..	
		6 09.3	..	..	
		6 22.9	0.7	1 29.2	
June.					
1	6 00.7	6 12.5	5.1	3 00.0	? Origin in Fiji.
2	10 30.5	10 32.0	0.2	0 06.1	
5	5 02.6	5 04.6	0.1	0 27.1	
9	6 50.0	..	..	0 05.1	Minute.
9	8 10.5	..	..	0 02.5	Minute.
13	13 08.1	13 13.2	0.3	0 39.5	
23	10 16.6	10 20.7	0.4	0 26.9	
24	2 58.9	..	..	0 14.3	Very slight.
29	10 51.5	11 03.8	..	..	
		11 08.7	17+	Indefinite	End obscured by quake following.
	Indefinite	14 28.9	4.2	Indefinite	P_1 obscured by preceding quake ended 15h. 49.5m
July.					
5	10 42.1	10 46.0	1.0	..	
		10 54.4	1.1	..	
		10 59.3	0.9	1 11.0	
7	8 26.8	8 58.7	1.0	..	
		9 14.1	0.8	..	
		9 23.3	1.1	1 57.5	
11	20 36.0	20 39.4	1.2	..	
		20 47.3	1.5	0 53.5	
12	21 08.0	21 12.1	7.0	..	
		21 37.7	3.5	1 47.2	
15	12 08.5	12 14.0	1.0	..	
		12 21.8	1.0	..	
		12 25.3	1.0	1 19.5	
15	21 48.7	21 51.9	0.2	..	Swellings.
		21 56.7	0.3	0 14.8	Preceded and followed by minute tremors.
19	19 33.5	19 39.3	0.2	..	
		19 52.2	0.2	0 22.0	
24	15 27.7	15 38.9	2.0	0 31.9	
29	10 38.1	11 01.3	2.5	..	
		11 14.3	2.3	1 14.3	
Aug.					
5	15 38.3	15 39.5	0.6	0 05.9	
10	20 49.6	21 08.2	0.4	0 38.3	
21	5 36.3	5 53.6	7.0	..	
		5 55.1	5.0	2 31.1	
Sept.					
7	7 33.9	7 51.4	7.0	1 25.0	
9	9 00.0	9 19.8	5.1	..	
		9 28.4	3.0	0 55.3	
10	12 21.9	12 33.4	1.4	0 38.3	
Oct.					
7	7 05.8	7 11.0	2.4	..	End obscured by Ats.
		8 26.5	1.0	0 57.0	
7	11 54.4	12 07.9	2.2	0 53.0	
12	8 00.2	8 06.8	1.0	0 28.6	
18	2 42.5	2 47.7	4.0	1 10.4	
30	7 47.5	7 53.7	2.5	0 51.7	
Nov.					
9	6 09.8	6 32.1	17.5	3 03.1	Reproduced.
10	12 28.4	12 40.4	2.0	0 30.6	Duration doubtful owing to Ats.
26	4 50.4	5 04.8	10.8	..	