

11 Period of Earthquake Vibration at the Central Meteorological Observatory.

The period of the maximum horizontal vibration T_0 in the 53 earthquakes observed at the Central Meteorological Observatory varied between 0.2 sec. and 1.8 sec., the frequency of the different periods being as follows :—

Number of cases.	Period of hor. motion.	Number of cases.	Period of hor. motion.
2	0.2	0	1.1
2	0.3	4	1.2
2	0.4	1	1.3
		2	1.4
10	0.5	3	1.5
6	0.6		
4	0.7	0	1.6
6	0.8	1	1.7
2	0.9	4	1.8
4	1.0		

Dividing the 53 cases into four groups, as indicated in the above table, the mean values are found to be respectively 0.30, 0.69, 1.34 and 1.80 sec., these being roughly in the ratios of 1: 2: 4: 6. The periods most frequently occurring are from 0.5 to 1.0 sec.

The period of the maximum vertical vibration, given in 13 cases, was as follows :—

Number of cases.	Period of vert. motion.	Number of cases.	Period of vert. motion.
3	0.3	3	0.6
2	0.4	2	0.7
2	0.5	1	0.8