

An Investigation of the Seismograph Records of Earthquakes Felt in Manila.

A separate sheet is given to each earthquake. There are given the date, the origin or meizoseismal area, and meizoseismal intensity.

The measurements made are those of the first throw of P, under the assumption that the damping and proper period of the pendulum did not appreciably affect these impulses. No other measurements are attempted on the Vicentini records because the absence of damping on these pendulums renders the records worthless for any quantitative measurements. Only in a very few instances was it found possible to make any measurements, other than iP , on the Wiechert records. This was due to various causes, e.g. pens dislocated, pens thrown off the record, pendulum striking against the stops, vibrations too rapid to allow of separation of individual waves, pen jumping over the record leaving only widely separated dots and dashes.

In a few instances the calculated acceleration of iP agrees with the strength of shock as reported in the Bulletin or as might be expected in Manila, considering the meizoseismal intensity.

In general it would appear that the shocks felt in Manila are not those of P but of a later phase, and that the force of this phase throws off or dislocates the pens. If this is so then P does not give a measure of the perceptible shocks, and such a measure can scarcely be obtained from the Wiechert records.

This examination covers the years from 1911 to 1923, inclusive.