Sp-P008

A simple method to calculate displacement waveform without eternal offset from acceleration seismogram

Yasumaro Kakehi[1]

[1] Earth and Planetary Sci., Kobe Univ.

http://www-seis.planet.kobe-u.ac.jp/~kakehi/oidemase.html

A simple method to calculate displacement waveform without eternal offset from acceleration seismogram is reported. Low-frequency noise on the displacement waveform, which appears even after the baseline correction on the acceleration waveform and the removal of linear trend on the velocity waveform, is removed as follows. First, the body wave part with a single polarity is substituted with a smooth curve. Then, the low-frequency noise curve is obtained by high-pass filtering. By removing this low-frequency noise curve from the displacement waveform, a displacement waveform without ethernal offset is obtained without giving any pollution to the body wave part.