

The trial which presupposes the surface ground motion using underground seismographs

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We have been constructing an ultra dense seismic observation network; Metropolitan Seismometer Observation Network; MeSO-net. MeSO-net consists of 296 seismic stations. The signals from seismometers are sampled 200 Hz by a 24-bit analog to digital converter at the bottom of 20m-borehole. The surface ground motion differs from the waveform observed at the underground. Then, we tried presumption of the surface ground motion using an underground seismograph. The present study is supported by two Special Projects for Earthquake Disaster Mitigation in Tokyo Metropolitan Area and reducing vulnerability for urban mega earthquake disasters from the Ministry of Education, Culture, Sports, Science, and Technology of Japan.

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