

## The trial which presupposes the surface ground motion using an underground seismograph; MeSO-net

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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.

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