

Estimation of 3D S-wave velocity model of sedimentary layers in Kanto area, using microtremor array measurements

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We have engaged in estimation of subsurface structure models from seismic bedrocks to ground surfaces in Kanto area for the purpose of enhancing prediction accuracy of earthquake ground motions. In order to advance the subsurface structure models, microtremor surveys have been conducted at a lot of sites in Kanto plane for these several years. Senna et.al., 2015, improved the conventional subsurface structure models by using records of microtremor array and earthquake observation. In this study, in addition to the previous described data, we will report results of microtremor array surveys with ones registered in the microtremor database of NIED and so on.

Keywords: microtremor array observation, velocity structure