The Analysis of Subsurface Structure in Yokohama Area using High Density Seismic Array Data 2

Yasushi Ishihara [1], Masanori Saito [2], Masayuki Kikuchi [3]

[1] Sci,Yokohama City Univ, [2] Faculty of Sci., Yokohama City Univ., [3] ERI, Univ. Tokyo

http://www.seis.yokohama-cu.ac.jp

The dispersion curve was presumed from the surface waveform data excited by an event of east-off Izu peninsula, which were recorded by the Yokohama high density strong motion seismograph network. A small array was composed to presume the direction of the incident of the surface wave and the phase velocity in precision. The semblance analysis was performed in each small array. As a result, both the difference of the direction of the incident to a small array and best phase velocities were presumed. At 10 sec period, the phase velocity is estimated 2.2 km/s. It is more intentionally smaller than the value forecast from a standard structural model.