

Evaluation of Osaka 3D sedimentary basin model through numerical simulations of earthquake ground motions (2)

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This paper presents evaluation of recent Osaka 3D sedimentary basin model through numerical simulations of small earthquakes by 3D FD method. The numerical simulation is performed for the four-layered structure model of the Osaka basin. The model is built from spline function with data by seismic refraction surveys, gravity survey, deep drilling, microtremors array observation and so on. We found that we can simulate direct S wave and properties of surface wave propagation in long period (frequency range $<1.0\text{Hz}$) with the model.