

## The influence of 3D model difference on FD simulation results

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This study has a construction of the 3D subsurface underground structure in Kanto plane for strong motion simulation based on geological data by Suzuki (1999) and microtremor array measurement data by Yamanaka and Yamada (2002). We have tested the 3D structure model on the simulation long-period velocity motions using a 3D finite difference numerical modeling approach. The results of some damaged earthquake simulations led a distribution map of a variation the synthetic wave for these models, which show a performance of structure models for simulation.