

Evaluation of Spatial and Temporal Variation of Site Effects on Superficial Subsurface Structure

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We investigated the spatial and temporal variation of site amplification characteristics based on observation data from high-sampling continuous borehole seismic observations and geophysical surveys, as well as using wave propagation theory, to improve the accuracy of earthquake ground motion evaluation. Furthermore, in the vicinity of the observation site at the foot of Mt. Mannichi, where bedrock is exposed, we extracted the relationship between the spatial variation in the epicenter azimuth of site amplification and the irregularly shaped underground structure.