

# Evaluation of site amplification factors using seismic observation and miniature array analysis of microtremors in Zushi City

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To obtain high resolution seismic hazard map, we have conducted high density seismic observation and microtremor miniature array measurements in Zushi City, Kanagawa, Japan. Site amplification factors have been estimated using both seismic observation data and miniature array analysis of microtremors. As the results, in Zushi City, site amplification factor varies even in small area and amplification factors estimated using seismic observation and miniature array of microtremors have good correlation if the stations are located within 50m.

Keywords: Site amplification factors, Seismic observation, Miniature array analysis of microtremors, Zushi City