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Microtremor Survey on Hamada City in Shimane Prefecture, Japan

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Microtremor observations were made to determine the subsurface structures of Hamada City in Shimane prefecture. This area was severely damaged during the 1872 Hamada earthquake (M7.1), damage being concentrated in the plain. The microtremor data were analyzed by the spatial auto correlation method. The subsurface structures were determined by S-wave velocity structure models obtained at the array observation sites and a 3D bedrock configuration based on the horizontal-to-vertical spectral ratios of microtremor.