Microtremor surveys for S-wave velocity structure in Okinawa and Amami islands, Japan

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We conducted microtremor array measurements at six sites in four islands of the Nansei islands area: Northern part of Okinawa main island, Yoron island, Okinoerabu island and Tokunoshima island, to estimate the vertical (1D) S-wave velocity profiles of deep sedimentary layers over the basement with a $V_s$ about 3.0 - 3.5 km/s. In this presentation, we will report the result of the analysis and the obtained S-wave velocity profiles at the six sites. These 1D velocity profiles may be available for making a 3D structure velocity model over the Nansei islands area for the strong ground motion simulations.

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