

Microtremor Array Survey in the Oita plain

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We conducted microtremor array survey at five sites in the Oita plain (NSS, MSA, AOS, TRS, MRG). Observations at each site consists of four to five regular-triangle-type arrays with different radius. The largest radius of each observation is about 1.5 km for the northern sea front area (NSS, MSA, AOS) and about 1 km for the southern inland area (TRS, MRG). The data of the microtremor are processed using SPAC and ESPAC method, and the dispersion curves for each observation are obtained; in the frequency range of 0.3 to 4 Hz for the northern area and 0.4 to 5 Hz for the inland area. The dispersion curves agree with the northward dipping of the upper boundary of bedrock beneath the Oita plain that have been indicated by gravity surveys and reflection surveys.