

Coherency of microseisms from OBS array records

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Coherency analysis was performed on an array OBS which was deployed in off Hamamatsu Nankai Trough in 1996. The array was consisted from 10 OBSs of 1 km separation. Adjacent stations in the array gave relatively high coherency in microseismic band. The coherency rapidly decreased as the station separation increased. From the coherency analysis, the phase velocity of microseism there is inferred to be lower than 1 km/s. This low velocity of microseisms suggest that improvement of teleseismic observation in microseismic band can be well achieved by stacking on such an array data.