

## Effects of background noise at deep sea on ocean-bottom seismometers

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Three ocean-bottom seismometers (OBSs) in-lined cable system off Kushiro-Tokcachi are put on the unconsolidated sediment, mainly consisting of sandy mud. During two surveys of the R/V Kairei with Kaiko, and the R/V Kaiko with Hyper Dolphin, which are unmanned submersibles carried out laying three OBSs under the ocean bottom by using new suction system. As a result, as for the background seismic noise there is no dramatically change between past and ongoing the operations, however, about 10% noise reduction in a high frequency range can be observed.