development of the cable-connected real-time seafloor seismic observatory (JAMSTEC No.2 system)

Kenji Hirata [1], Iwase Ryoichi JAMSTEC Long-term Deep Seafloor Observation and Research Project Team

[1] DSR, JAMSTEC

JAMSTEC is developing the cable-connected real-time seafloor seismic observatory (No.2 system) now. The observatory is planned to install off Kushiro, Hokkaido, Japan in July 1999. The observatory is equipped with three broad-band seismometers, two tsunami (pressure) gages, two branch units, connecting a main cable of the observatory with any sensors to be newly developed, and a cable-end stations with multi-sensors. Observation data from these sensors are transmitted to a land-station in real time. Monitoring seismic activity and crustal deformation in subduction zone region, off Kushiro, between the Pacific and the North American plate will be enhanced by installation of the observatory. Prediction of tsunami height also will be advanced.