

## Cable-connected piggyback observatory off Hatsushima Island / Deployment and recovery of pop-up OBS by using deep-tow camera

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

[1] JAMSTEC

<http://www.jamstec.go.jp>

Cable-connected deep seafloor observatory off Hatsushima Island in Sagami Bay is planned to be renewed. New observatory will be a piggyback system which has underwater mateable ROV connectors with serial interface and underwater mateable optical connectors, with which additional instruments can be installed on the seafloor and communications between the instruments and the land station are possible. The deployment and recovery experiment of pop-up OBSs by using deep-tow camera was carried out. In deploying the OBS, one end of a 100m long rope was tied to the OBS's sinker and was extend on seafloor by the deep-tow while observing the seafloor. OBS and sinker can be recovered by pickng up the rope by the hook which was attached to the deep-tow, in case OBS's acoustic release was failed.