

Cruise Summary

1. **Cruise ID/Name of vessel** KY11-06 /Leg1 / R/V Kaiyo
2. **Title of proposal** Construction and improvement of Seafloor observation Network for Earthquakes and Tsunamis
Representative of the Science Party [Affiliation] Yoshiyuki KANEDA/JAMSTEC
3. **Chief scientist [Affiliation]** Eiichiro Araki /JAMSTEC
4. **Science Party (list)** JAMSTEC Eiichiro ARAKI, Hiroyuki Matsumoto
NME Tohru Kodera
MWJ Hiroyuki Hayashi, Shohei Taketomo, Ei Hatakeyama,
Sayaka Kawamura, Yasumi Yamada
5. **Research area** Kumano-nada
6. **Cruise period** 2011/04/10(Sun) ~ 2011/04/18(Mon)

Overview of the observation

R/V Kaiyo departed from Yokohama Yamashita pier on Apr. 10 for Kumano-nada area to construct submarine cable network for Earthquakes and Tsunamis (DONET) and arrived at Yokosuka headquarter pier on Apr 18th. During the cruise, Kaiyo deployed seafloor casings for ocean bottom seismographs using a seafloor casing installing piston corer for 10 times in 9 locations. As a result of the coring operations, we established 7 locations suitable for seismometer installation where casing is installed with enough penetration in the seafloor. In the following cruises with ROV Hyper Dolphin, seismometer will be installed in these locations to start long-term seismic observation with connection to the DONET network.