

## Cruise Summary

### 1. Cruise Information

- Cruise ID: KY14-02
- Name of vessel: R/V Kaiyo
- Title of the cruise: ROV investigation into seafloor hydrothermal fluid and high-level CO<sub>2</sub> venting systems.
- Chief scientist: KAWAGUCCI, Shinsuke [JAMSTEC]
- Representative of the Science Party: NOZAKI, Tatsuo [JAMSTEC]  
MARUMO, Katsumi [Toyama University]  
IJIRI, Akira [JAMSTEC]
- Cruise period: 2014.02.02 - 2014.02.13
- Ports of call: Naha - Naha
- Research area: Hatoma, Daiyon-Yonaguni, and Irabu hydrothermal fields, Okinawa Trough

### 2. Overview of the Observation

- Overview of the observation: We conducted ROV Hyper Dolphin dives at Hatoma (#1621), Daiyon-Yonaguni (#1622-1623), and Irabu (#1624) hydrothermal fields. Rocks, ores, hydrothermal fluids, seawater, and benthic animals were collected by appropriate devices. Several sensors were utilized to characterize chemical features of water column around hydrothermal vents.