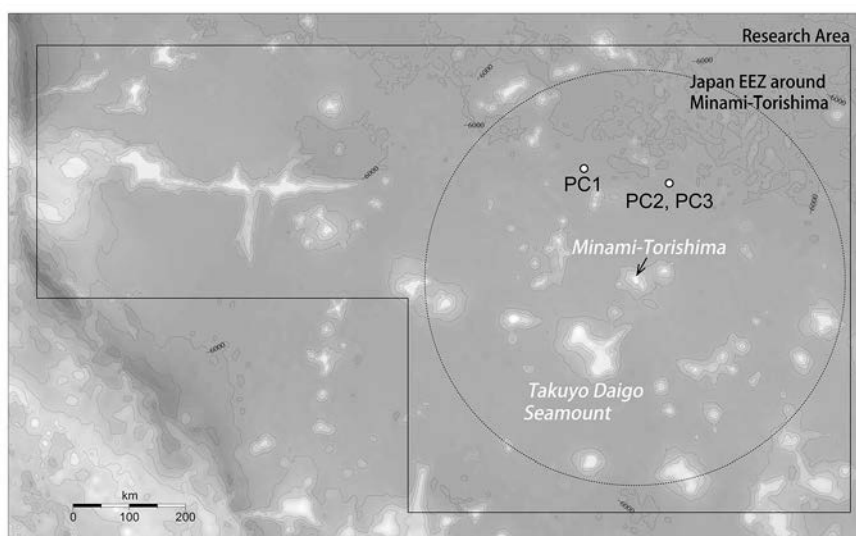
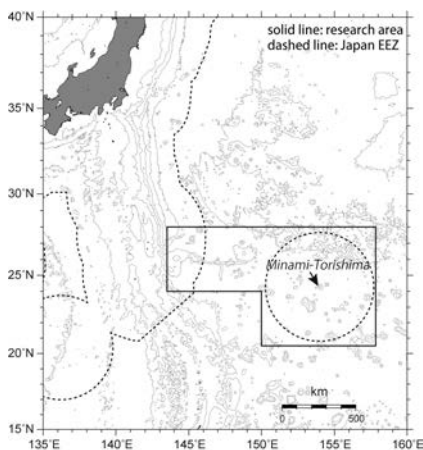


Cruise Summary

1. Cruise Information

- Cruise ID: MR13-E02 leg2
- Name of vessel R/V Mirai
- Title of the cruise: Survey of REY-rich mud around Minami-Torishima Island.
- Chief Scientist: IJIMA, Koichi [JAMSTEC]
- Representative of the science party: MACHIYAMA, Hideaki [JAMSTEC]
- Cruise period: Dec. 10 to Dec. 24, 2013
- Ports of call: Naha (Naha city, Okinawa pref.) to Sekinehama (Mutsu city, Aomori pref.)
- Research area: Off Minami-Torishima (Marcus Island)



2. Overview of the Observation

● Objective

Our objective in this cruise was to carry out a reconnaissance investigation of REY-rich mud off north and east of Minami-Torishima where we had never explored. Concretely, (1) Obtain sub-bottom profiler data throughout the cruise in the research area to confirm sub-seafloor sedimentary sequences and (2) Collect sediment core samples to examine abundance of rare earth elements.

● Preliminary Result

We obtained sub-bottom profiler data in the research area and collected 3 sediment cores at 2 sites. One of the cores was collected using 2.4t heavy-weight piston corer, which resulted in good recovery with no core liner deformation.

The detailed results are confidential matter.