

MR08-E02 Cruise Summary

Cruise information

Cruise number: MR08-E02

Ship name: R/V *Mirai*

Title of the cruise: Observational study for the Kuroshio transport and surface flux: redeployment of K-TRITON buoy

Research area: Eastern region of Sanriku, Japan

Chief scientist (on-site responsible person): Akira Nagano

(Institute of Observational Research for Global Change)

Representative of science party: Hiroshi Ichikawa

(Institute of Observational Research for Global Change)

Cruise period: 11 November 2008 — 18 November 2008

Port call: Onahama — Sekinehama

Overview of observation

This cruise was planned to deploy K-TRITON buoy at the JKEO site. On 11 November 2008, we departed at Onahama toward the JKEO site (nominal location: 38.0°N, 146.5°E). The buoy was successfully deployed at 38° 4.7146'N, 146° 25.1384'E on 12 November. Just after the deployment, we carried out an expendable conductivity-temperature-depth observation to obtain temperature and salinity profiles at the site. Staying within one mile from the site, by use of a portable ARGOS receiver, we continued to perform the data transmission test of the buoy. However, in the morning of 13 November, we found that the buoy data system occasionally malfunctioned. Then, on 15 November 2008, we recovered the top buoy on deck to do the maintenance of the buoy system, and redeployed it. The buoy system became working well, although we could not identify a clear cause of the trouble of the buoy system. In the evening of 16 November, we left the JKEO site, arrived at the port of Sekinehama on 18 November.