

Cruise summary

1. Cruise Information :

(1) Cruise number, Ship name: KR08-E03, R/V Kairei

(2) Title of the cruise: 2008FY “Seismic study at the Izu-Ogasawara region”

(3) Chief Scientist [Affiliation]: Mikiya YAMASHITA [JAMSTEC]

(4) Representative of Science Party [Affiliation]:

Yoshiyuki KANEDA [JAMSTEC],

(5) Title of proposal:

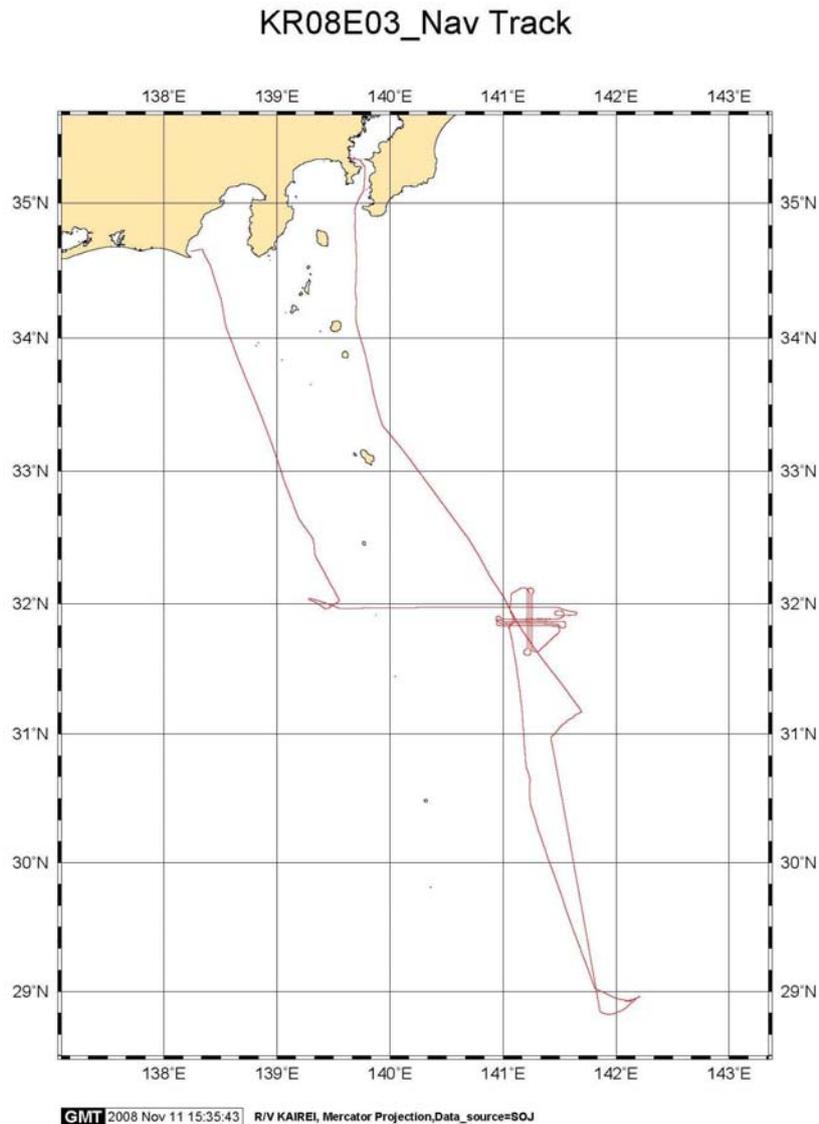
Crustal growth of the Izu-Ogasawara oceanic island arc - Seismic study for IODP
Project IBM-,

(6) Cruise period, Port call:

2008/11/2-11/11, Omaezaki port (Shizuoka) to JAMSTEC (Yokosuka)

(7) Research Area: Izu-Ogasawara

(8) Research Map:



2. Overview of Observation :

(1) Objectives :

IFREE has conducted seismic surveys intensively in the Izu-Ogasawara area to understand crustal evolution of oceanic arcs since 2004. The objectives of this cruise are to obtain the site characterization in proposed drilling site of Project IBM sites by multi-channel seismic reflection surveys conducted in the southeast off Aoga-shima of the Izu-Ogasawara arc.

(2) List of observation instruments :

1) Multi-channel seismic reflection survey

Multi-channel seismic reflection surveys were carried out in the IBM2 region (lines EW3a, EW8, EW9, EW10, EW11, NS7, NS8 and NS9) and line KT04, the Izu-Ogasawara area, using the airgun array of 7,800 cu. inch and a 444-ch. hydrophone streamer.

2) Bathymetry observation

During this cruise, bathymetry data have been recorded continuously by SEABEAM2112.

3) Temperature and Conductivity observation for the correction of sonic speed

We have conducted two expendable-Bathy Thermographs (XBT).