

## Cruise summary

### 1. Cruise Information:

- (1) Cruise number, Ship name: KY13-11, R/V Kaiyo
- (2) Title of the cruise: 2013FY "Multidisciplinary project in Nankai Trough"
- (3) Chief Scientist [Affiliation]: Mikiya YAMASHITA [JAMSTEC]
- (4) Representative of Science Party [Affiliation]:  
Yoshiyuki KANEDA [JAMSTEC]
- (5) Title of proposal:  
Multidisciplinary project in Nankai Trough
- (6) Cruise period, Port call:  
2013/8/23-9/2, Yokosuka Port to Sumijyu Port (Yokosuka)
- (7) Research Area: from off Kii Peninsula to off Tokai
- (8) Research Map:

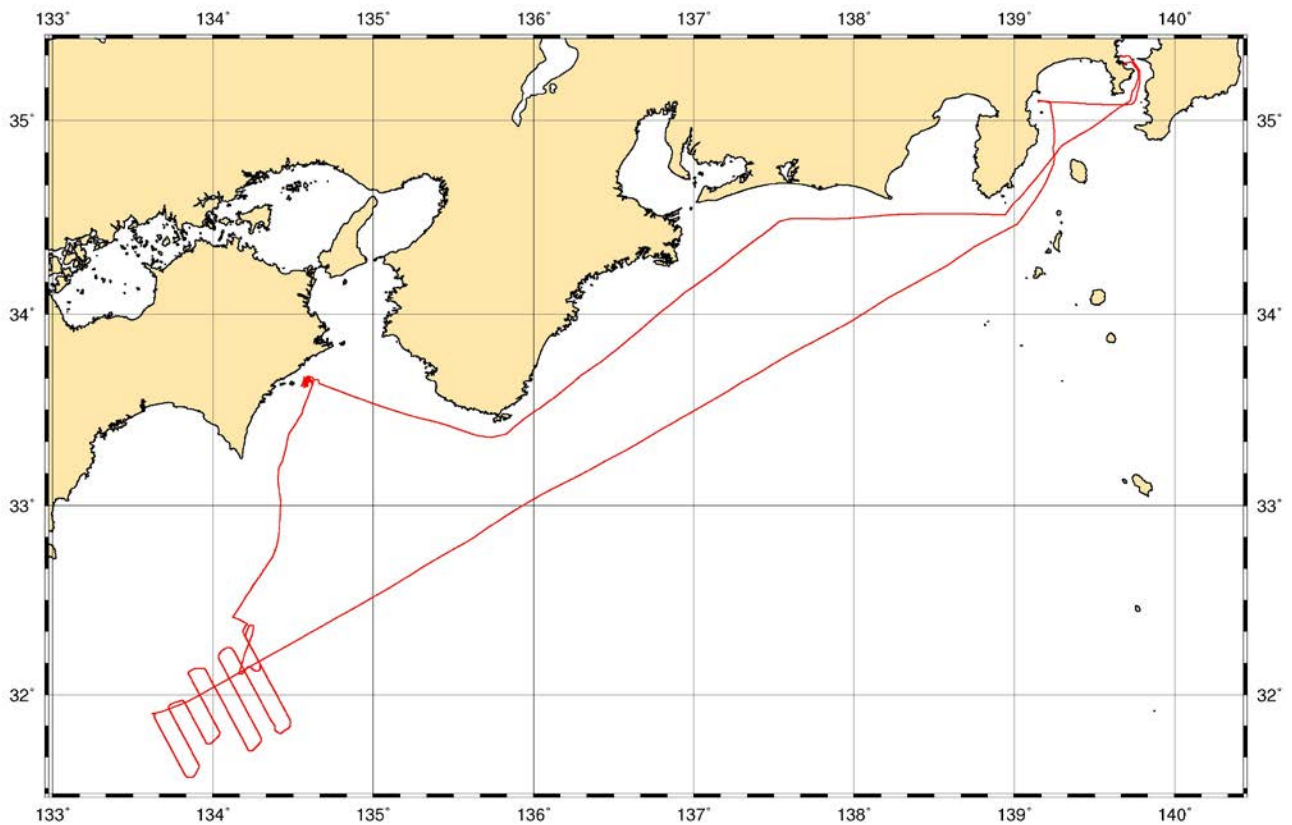


Fig.1 Ship track on KY13-11 cruise.

## 2. Overview of Observation :

### (1) Objectives :

2011 Tohoku earthquake produced large disaster Tsunami by rupture from deep region to trench axis. Recently, drilling results suggests that there is large slip around trough axis in Nankai Trough. Therefore, high resolution multi-channel seismic reflection survey is carried out around the Nankai Trough in order to understand the distribution about the turbidite.

### (2) List of observation instruments :

#### 1) Seismic reflection survey

Seismic reflection surveys were carried out on all survey lines off Kochi using the airgun array of 380 cu. inch and a 192-ch. hydrophone streamer.

#### 2) Bathymetry observation

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

#### 3) Temperature, Conductivity and Depth observation for oceanic fine imaging in reflection experiment

We have conducted 1 XCTD (eXpendable Conductivity, Temperature and Depth).

### (3) Preliminary results

Figure 2 shows the seismic profile obtained during KY13-11 cruise.

Fig.2 Seismic reflection section of line HDNT107

