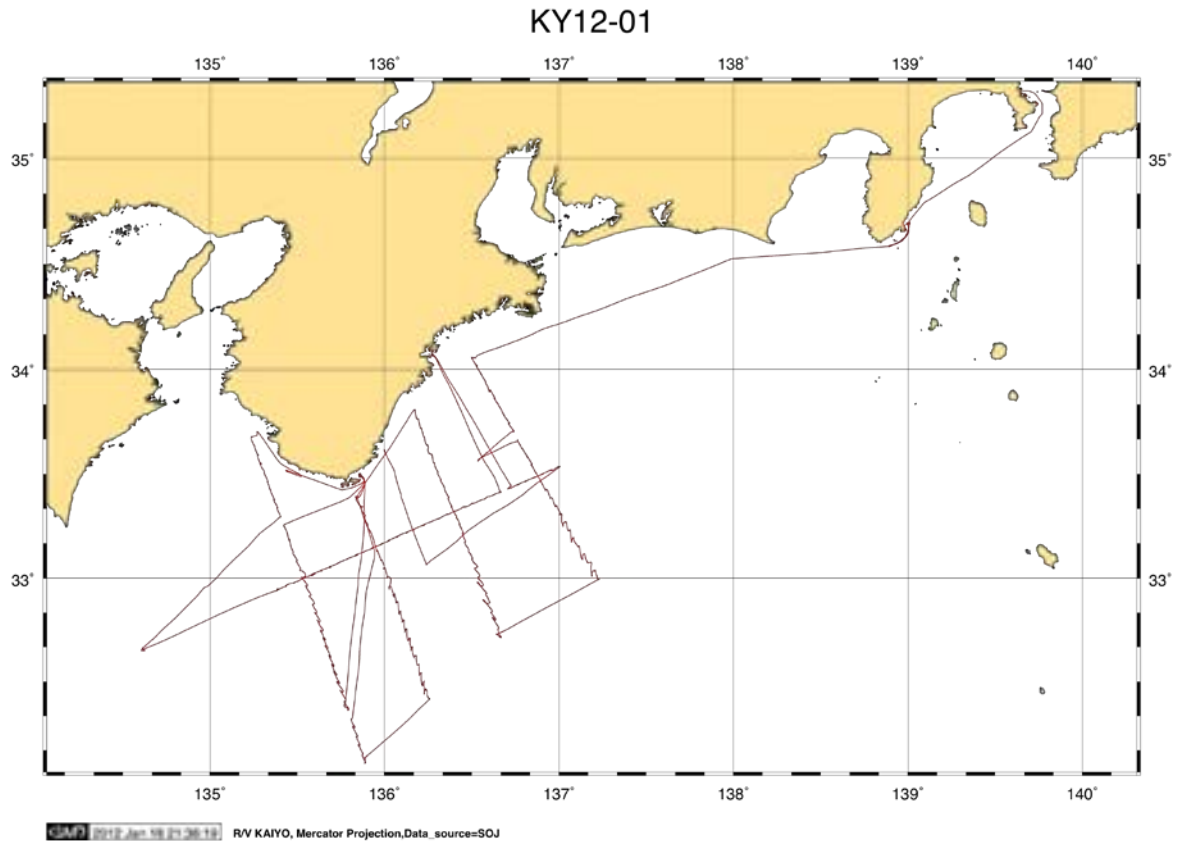


Cruise Summary

1. Cruise Information :

- (1) Cruise number, Ship name: KY12-01Leg1, R/V Kaiyo
- (2) Title of the cruise: 2011FY “Seismic study and earthquake observation off Kii peninsula”
- (3) Title of proposal: Seismic study and observation of evaluation for large earthquake synchronization in the Nankai Trough
- (4) Cruise period, Port call:
2012/01/04-01/19, JAMSTEC (Yokosuka) to Shingu (Wakayama)
- (5) Research Area: off Kii Peninsula
- (6) Research Map:



2. Researchers

(1) Chief Scientist [Affiliation]: Yuka KAIHO [JAMSTEC]

(2) Representative of Science Party [Affiliation]:

Yoshiyuki KANEDA [JAMSTEC]

(3) Science party list:

Shuichi KODAIRA [JAMSTEC]

Narumi TAKAHASHI [JAMSTEC]

Koichiro OBANA [JAMSTEC]

Tsutomu TAKAHASHI [JAMSTEC]

Yojiro YAMAMOTO [JAMSTEC]

Yuka KAIHO [JAMSTEC]

Gou FUJIE [JAMSTEC]

Seiichi MIURA [JAMSTEC]

Takeshi SATO [JAMSTEC]

Mikiya YAMASHITA [JAMSTEC]

Tetsuo NO [JAMSTEC]

Norio SHIMOMURA [JAMSTEC]

Ayako NAKANISHI [JAMSTEC]

Jin-Oh PARK [JAMSTEC]

Kaoru TAKIZAWA [NME Ltd.]

Naoto NOGUCHI [NME Ltd.]

Ami IWAKI [NME Ltd.]

Hiroyuki MATSUMOTO [JAMSTEC]

Masayuki HOSHINO [JAMSTEC]

Kazuhiko KASHIWASE [JAMSTEC]

3. Overview of Observation :

(1) Objectives :

The objectives of this cruise are to reveal the crustal structure and earthquake observation around the off Kii Peninsula as a part of the study of “Research program concerning interaction between the Tokai, Tonankai, and Nankai Earthquakes” funded by the Ministry of Education, Culture, Sports, Science, and Technology of Japan.

In the Nankai trough subduction zone which have a number of major earthquakes in the last ca. 1300 years, historical seismicity reveals that the segmented pattern which were coupled occasionally. Off Kii peninsula is the one of large earthquake trigger point between two segments, Tonankai area and Nantai area. To understand the structure factors controlling the segmentation and coupling, it is necessary to reveal the detailed structure variations and seismic activities in this subduction zone. The objectives of this cruise are to reveal seismic structure and seismic activity around off Kii Peninsula.

(2) List of observations :

1) Retrieve of ocean bottom seismometers (OBSs)

147 OBSs (deployed in KR11-09) were recovered. 3 OBSs were not recovered. 1 long term OBSs (NT14) which was deployed by Kairei KR10-11 had no reply, no recovery.

2) Deployed long term ocean bottom seismometers

1 long term OBS(L13) was deployed.

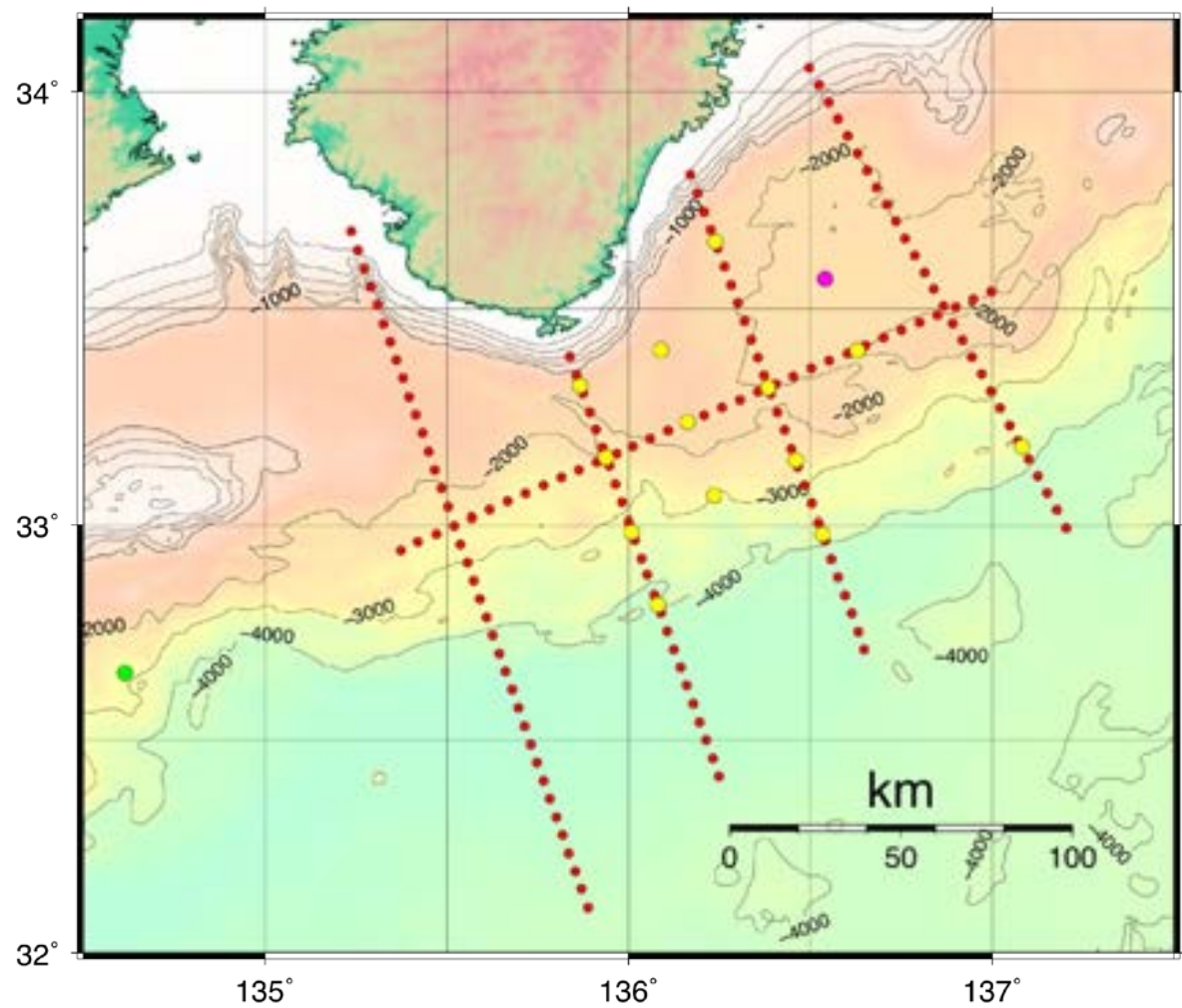
3) Calling communication with long term ocean bottom seismometers

Calling communication were carried out against 13 long term OBSs(L01-12,14) which were deployed by Kairei KR11-09 cruise.

(3) Cruise log:

Date		Remarks
2012/01/04	Wed.	Departure from JAMSTEC (Yokosuka), and transit to survey area
2012/01/05	Thu.	Standby due to weather condition
2012/01/06	Fri.	Transit to survey area and recovery, deployment and calling of OBSs
2012/01/07	Sat.	Recovery and calling of OBSs
~		Recovery and calling of OBSs
2012/01/10	Tue.	Recovery and calling of OBSs
2012/01/11	Wed.	Recovery and calling of OBSs, transit to off Kushimoto due to weather condition
2012/01/12	Thu.	Transit to survey area and recovery and calling of OBSs
2012/01/13	Fri.	Recovery and calling of OBSs, transit to off Kushimoto due to weather condition
2012/01/14	Sat.	Transit to survey area and recovery and calling of OBSs
2012/01/15	Sun.	Recovery and calling of OBSs
2012/01/16	Mon.	Recovery and calling of OBSs, transit to off Owase due to weather condition
2012/01/17	Tue.	Standby due to weather condition
2012/01/18	Wed.	Transit to survey area and recovery and calling of OBSs
2012/01/19	Thu.	Arrival at SHINGU (Wakayama)

(4) Location map of OBSs



Red circles show the OBS positions. Yellow and yellowish green circles are calling communicated LOBS sites. Magenda circle is deployed LOBS.