

Cruise summary

1. Cruise Information :

(1) Cruise number, Ship name: KY08-11, R/V Kaiyo

(2) Title of the cruise: 2008FY “Seismicity study off Kii peninsula, Nankai trough”

(3) Chief Scientist [Affiliation]: Koichiro Obana [JAMSTEC]

(4) Representative of Science Party [Affiliation]: Koichiro Obana [JAMSTEC],

(5) Title of proposal:

Research for Interaction between the Tokai, Tonankai and Nankai Earthquakes

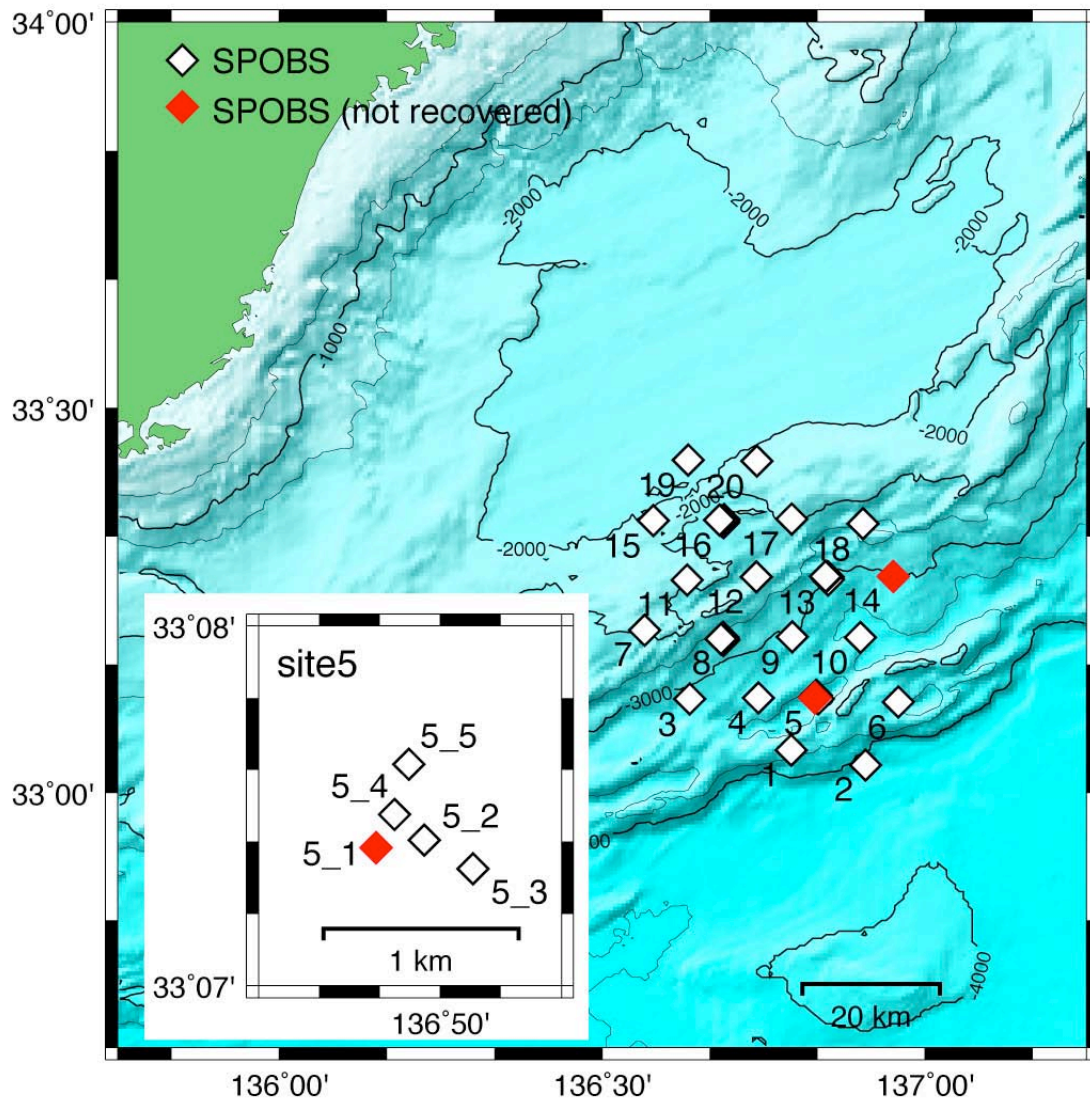
-Study for mechanisms of low-frequency events in the accretionary prism along the Nankai trough-

(6) Cruise period, Port call:

2008/10/8-10/13, from Yokosuka-Shinko to JAMSTEC (Yokosuka)

(7) Research Area: Off Kii Peninsula, Nankai trough

(8) Research Area Map:



2. Overview of Observation :

(1) Objectives:

This research cruise was conducted 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.

The objectives of this cruise to reveal seismic activity including low frequency events in the accretionary prism along the Nankai trough and their mechanisms.

During the cruise of KY08-11, short-period ocean bottom seismographs, which were deployed off Kii peninsula in the Nankai trough by the cruise of KY08-06 in July 2008, have been recovered.

(2) Observations:

1) Recovery of Short-period ocean bottom seismometer (SPOBS)

During the cruise of KY08-11, out of 36 SPOBSs deployed by the cruise of KY08-06 in July 2008, 34 SPOBSs have been retrieved. Two SPOBSs at site 5_1 and site 14 have not been recovered.

2) Others

During the cruise of KY08-11, bathymetry data have been recorded continuously. Water temperature profile was observed by XBT to correct sound-speed.