



R/V Kaiyo Cruise Report

KY09-E01

Seismic survey and seismicity study
in Hyuga-nada, Nankai trough

January 14 – 28, 2009

Japan Agency for Marine-Earth Science and Technology

(JAMSTEC)

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1. Cruise Information :

- (1) Cruise number, Ship name: KY09-E01, R/V Kaiyo
- (2) Title of the cruise: 2008FY “Seismic survey and seismicity study in Hyuga-nada”
- (3) Chief Scientist [Affiliation]: Koichiro Obana [JAMSTEC]
- (4) Representative of Science Party [Affiliation]: Yoshiyuki Kaneda [JAMSTEC],
- (5) Title of proposal:
 Research for Interaction between the Tokai, Tonankai and Nankai Earthquakes
 - Seismic survey and seismicity study in Hyuga-nada -
- (6) Cruise period, Port call: 2009/1/14-1/28, from Yokohama (Yamashita) to JAMSTEC (Yokosuka)
- (7) Research Area: Hyuga-nada, Nankai trough
- (8) Research Area Map:

2. Researchers

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

(2) Representative of Science Party [Affiliation]: Yoshiyuki Kaneda [JAMSTEC],

(3) Science party list:

Norihiko Kashiwase [JAMSTEC] (**on board**)

Shuichi Kodaira [JAMSTEC]

Yoshiyuki Kaneda [JAMSTEC],

Gou Fujie [JAMSTEC],

Ayako Nakanishi [JAMSTEC],

Jin-Oh Park [JAMSTEC],

Tsutomu Takahashi [JAMSTEC],

Tetsuo No [JAMSTEC],

Kaoru Takizawa [JAMSTEC],

Yoshio Fukao [JAMSTEC],

3. 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 structure and seismic activity in Hyuga-nada, Nankai trough.

During the cruise of KY09-E01, 130 ocean bottom seismographs (OBSs) have been recovered. These OBSs were deployed during the cruise of KR08-16 by R/V Kairei in December 2008.

(2) List of observation instruments:

1) Ocean bottom seismograph (SPOBS)

During the cruise, 130 OBSs have been retrieved. Two OBS at site 28 and 130 have not been recovered.

2) Others

During the cruise, bathymetry data have been recorded continuously.

(3) Cruise log:

Date		Remarks
2009/1/14	Wed	Departure from Yokohama. Transit to survey area
2009/1/15	Thu	Transit to survey area. OBS recovery
2009/1/16	Fri	OBS recovery
2009/1/17	Sat	OBS recovery
2009/1/18	Sun	OBS recovery
2009/1/19	Mon	OBS recovery
2009/1/20	Tue	OBS recovery
2009/1/21	Wed	OBS recovery
2009/1/22	Thu	OBS recovery
2009/1/23	Fri	OBS recovery
2009/1/24	Sat	OBS recovery
2009/1/25	Sun	OBS recovery
2009/1/26	Mon	OBS recovery
2009/1/27	Tue	Transit to JAMSTEC (Yokosuka)
2009/1/28	Wed	Arrive at JAMSTEC (Yokosuka)

(4) Research Information:

1) OBS Recovery

During the cruise, 130 ocean bottom seismographs (OBSs) have been recovered. These OBSs were deployed during the cruise of KR08-16 by R/V Kairei in December 2008. Two OBSs of OBS 28 and 130 have not been recovered.

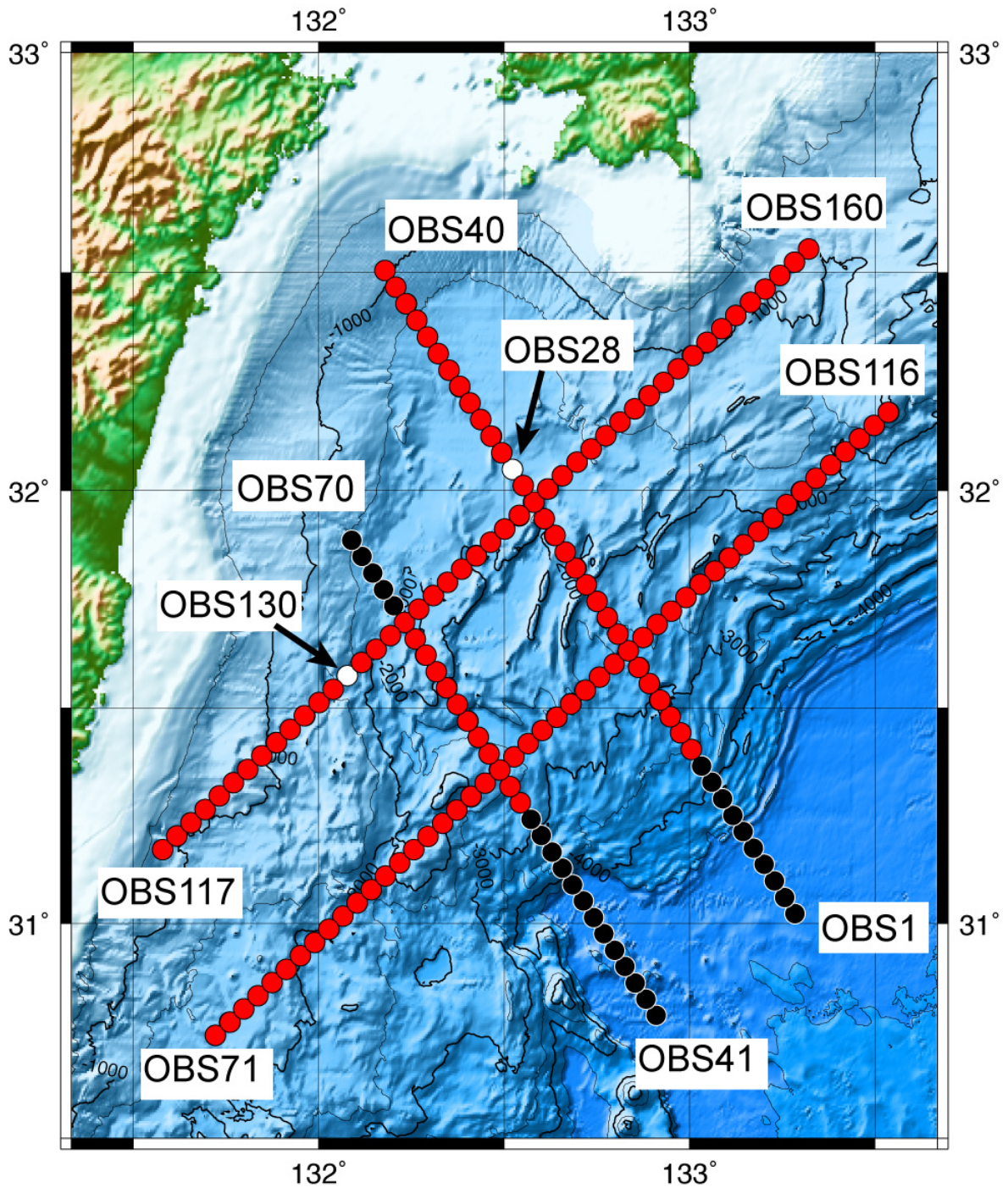


Fig.1 Map of the OBSs. Red and black circles are the OBSs recovered during the cruise KR09-E01 and KR08-16, respectively. Open circles are unrecovered OBSs.

4. Notice on using:

This cruise report is a preliminary documentation as of the end of the cruise. It may not be corrected even if changes on content (i.e. taxonomic classifications) are found after publication. It may also be changed without notice. Data on the cruise report may be raw or not processed. Please ask the PI(s) for the latest information before using. Users of data or results of this cruise are requested to submit their results to Data Integration and Analysis Group (DIAG), JAMSTEC.