

KR15-18 Cruise Summary

1. Cruise Information

Cruise ID: KR15-18

Name of vessel: KAIREI

Title of the cruise: “Project for wide-area earthquake research of the Nankai Trough”

: Paleoseismology in the slope to trench.

Chief scientist [Affiliation]: Toshiya Kanamatsu [CEAT-JAMSTEC]

Representative of Science Party: [Affiliation]: Shuichi Kodaira [CEAT-JAMSTEC]

Title of proposal: “Project for wide-area earthquake research of the Nankai Trough”

: Paleoseismology in the slope to trench.

Cruise period: 17th, Nov – 29th, Nov 2015

Ports of call: Naha –Naha (Fig.1)

Research area: Nansei-shoto

Research map: Figure 1

2. Overview of the Observation

The objective of this cruise was to explore the recurrence record of the large tsunami and earthquake archived in the deep-sea sediment in Nansei-shoto as a part of the study of “Project for wide-area earthquake research of the Nankai Trough” funded by the Ministry of Education, Culture, Sports, Science, and Technology of Japan. The previous cruise “YK15-01” focused on the area where was largely affected by 1771 Meiwa-tsunami and Yaeyama earthquake. KR15-18 was planned to extend the survey area of YK15-01. Because of no detail topographic data in the area, we collected bathymetric data in order to plan detailed coring points first. Although 6 days were spent for waiting weather due to typhoon No. 26, we could recover 5 piston cores, and bathymetric data in the southeast of Ishigaki island (Fig. 1).

We found that a frequent intercalation of medium-coarse grain size turbidites, and some times fine-grained turbidite in the collected cores, which can be regarded as event deposits.

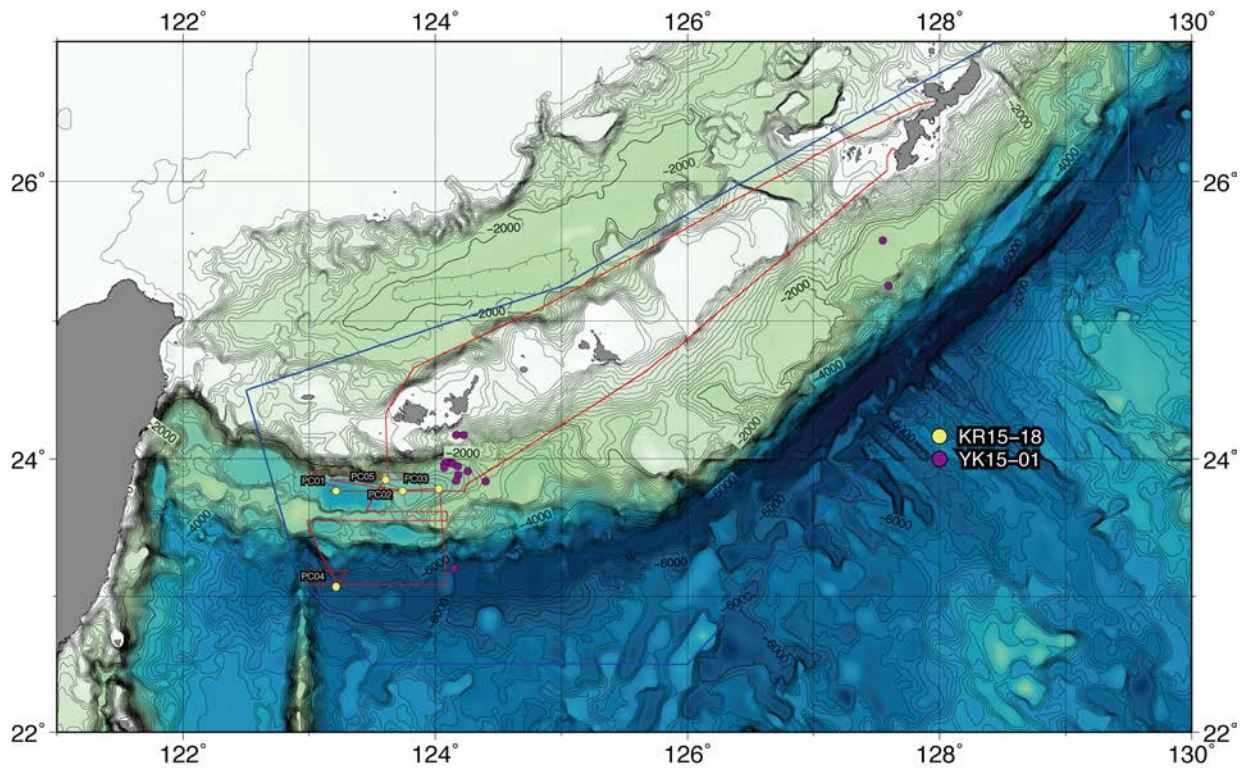


Fig. 1. Yellow closed circles: locations of piston coring during KR15-18. Red line: ship track of KR15-18. Purple closed circle: piston coring locations by YK15-01.