Submission date 2016/12/21

Cruise Summary

1. Cruise Information

Cruise ID: KR16-E06

Name of vessel: R/V Kairei

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

Representative of the Science Party [Affiliation]: Toshiya Kanamatsu [CEAT JAMSTEC]]

Proposal representative [affiliation]: Shuichi Kodaira [CEAT JAMSTEC]

Title: Research of the Paleoseismology in the slope to trench in Nankai Trough”

Cruise period: Dec. 7th 2016 to Dec. 16th 2016

Ports of departure / call / arrival Kagoshima/Naha

Research area: Nansei-shoto

Research map **Fig. 1**

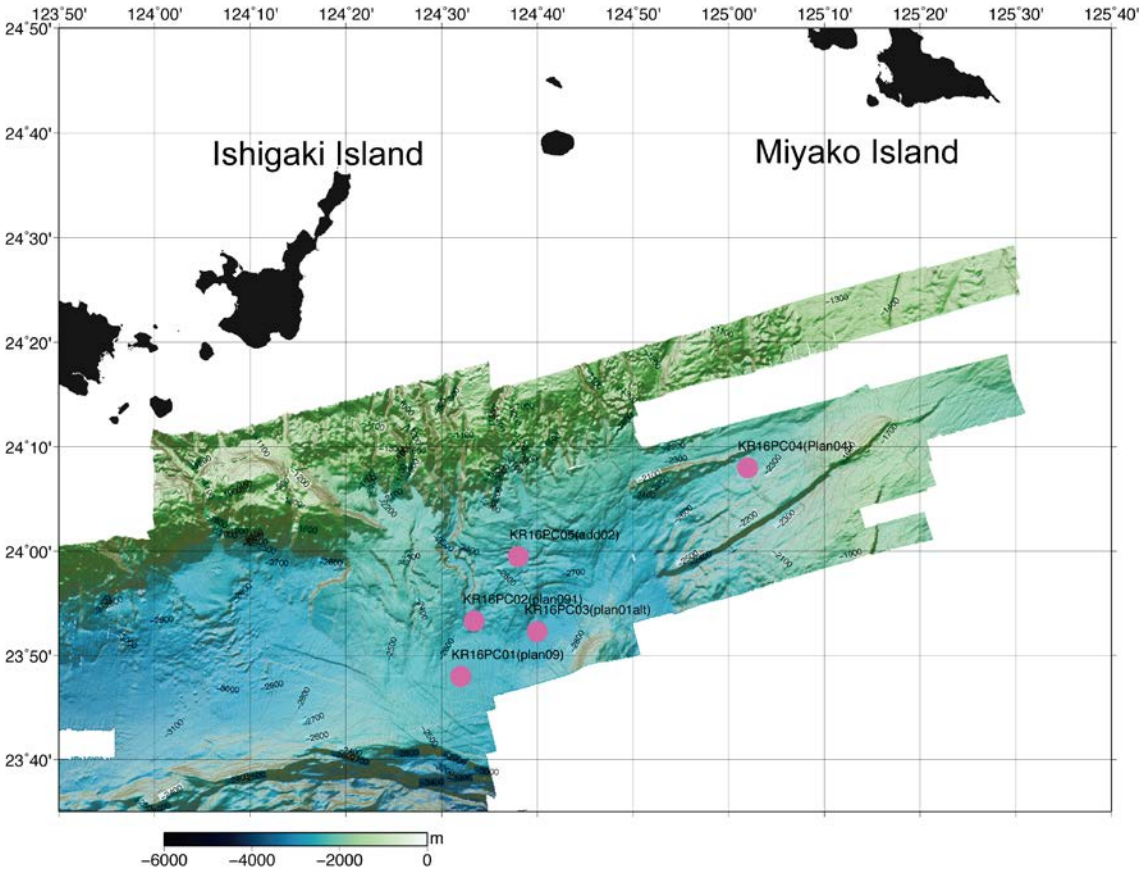

Fig.1 : The surveying was concentrated in the south area between Ishigaki-Island and Miyako Islands. ●: piston coring point. Bathymetric data from the previous cruises and this cruise.

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 cruises “YK15-01” and KR15-18 focused on the area where was largely affected by 1771 Meiwa-tsunami and Yaeyama earthquake. KR16-E06 was planed to extend the survey area from the previous two cruises. Because of sparse MBES data in the area, we collected bathymetric data in order to plan detailed coring points as much as possible. Three day-times were available for coring, the other remain time including night-time were for MBES and SBP surveys. We recovered 5 piston cores, and bathymetric data in the south between Ishigaki and Miyako islands (**Fig. 1**). Occurrences of coarse layer in the cores are interpreted as evidences of past tsunami-earthquake events in the Nansei-shoto.