

Cruise Summary

1. Cruise Information

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| Cruise ID: | KY11-E06 |
| Vessel Name: | R/V Kaiyo / ROV Hyper Dolphin 4500 |
| Cruise Title: | Condition Assessment of the riser wellhead of Hole C9001D and the seafloor surrounding, off Shimokita, a Site Survey for IODP Expedition 337 |
| Chief Scientist: | Kan Aoike (CDEX, JAMSTEC) |
| Representative of Science Party: | Moe Kyaw Thu (CDEX, JAMSTEC) |
| Cruise Period: | 14 November 2011 ~ 22 November 2011 |
| Ports of call: | Yokosuka (JAMSTEC) – Yokosuka (JAMSTEC) |
| Survey Area: | Off the Shimokita Peninsula |

2. Overview of the Survey

2.1. Objectives

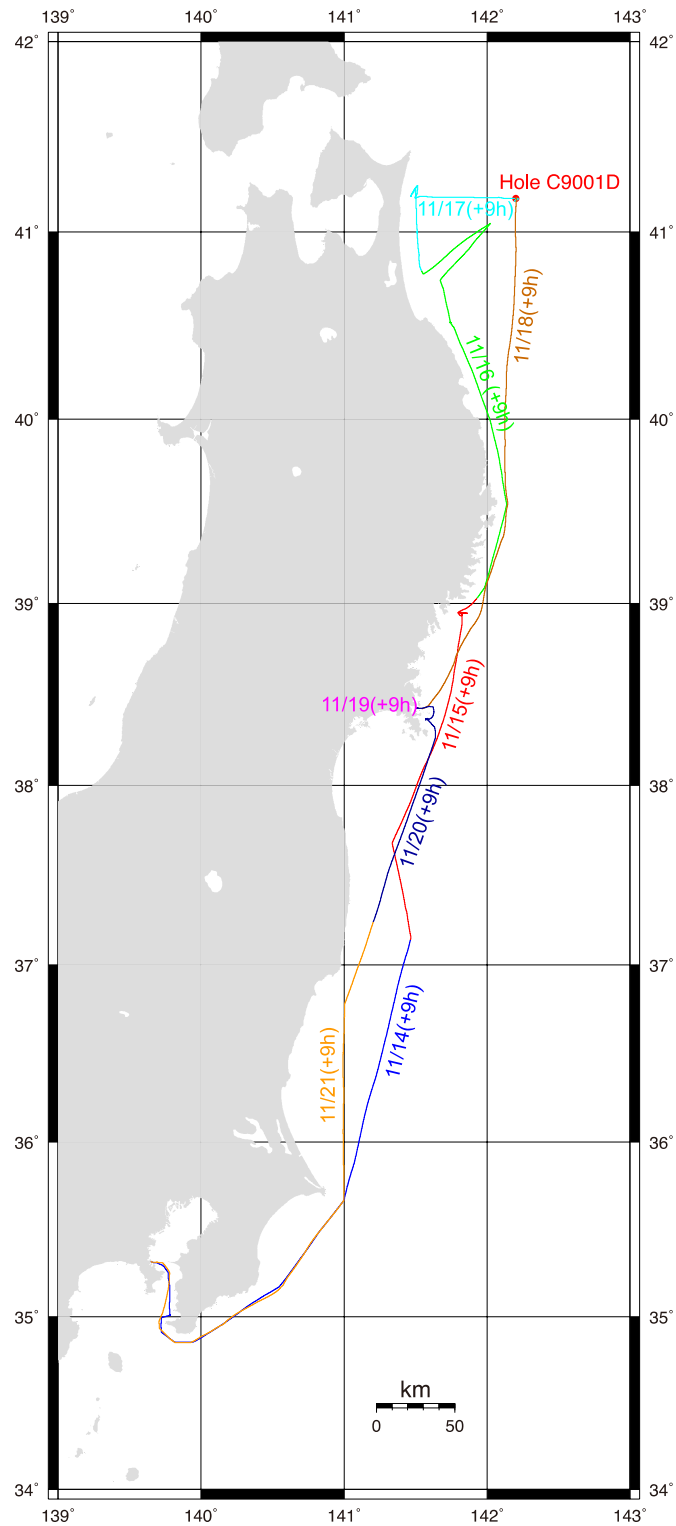
The R/V Kaiyo KY11-E06 cruise is aimed at assessing the conditions of the riser wellhead of Hole C9001D, which should have been re-entered in IODP Expedition 337 “Deep Coalbed Biosphere Off Shimokita”. However, the expedition, which should have started from March 15th, 2011, was forced to be postponed due to the Off the Tohoku Great Earthquake occurred on March 11th, 2011. By using ROV Hyper Dolphin 4500, we confirm if by any chance the wellhead and the seafloor surrounding are damaged by the great earthquake.

2.2. Results

The KY11-E06 cruise was originally scheduled for from Nov. 14 to Nov. 20, 2011 as an emergency cruise. The R/V Kaiyo left the JAMSTEC quay on Nov.14 and then arrived at the site, off Shimokita Peninsula, on Nov. 18 after one-day evacuation off Ofunato from a rough sea condition. The dive of Hyper Dolphin 4500 was successfully carried out on the day, surveying the wellhead of Hole C9001D and sampling sediment with push corers. Upon completion of the dive, she left the site for Yokosuka, however, was forced to evacuate off Onagawa for totally two days due to rough sea conditions. She finally returned to the JAMSTEC quay on Nov. 22.

According to the result of observation by ROV Hyper Dolphin 4500, no significant changes that potentially cause any trouble to the upcoming IODP operations were found on the wellhead of Hole C9001D. In addition, no obvious abnormal features of seafloor

related to the great earthquake were observed. The wellhead is considered to be in a sound condition, thus, no obstacle to implement IODP Expedition 337 in terms of the wellhead including the seafloor surrounding was recognized.



The ship track of KY11-E06