

## Cruise Summary

### 1. Cruise Information

- Cruise ID KS-17-J09C
- Name of vessel Shinsei-maru
- Title of the cruise Researches on marine ecosystem dynamics in the Tsunami affected area off Sanriku.
- Chief scientist Shinji Tsuchida [JAMSTEC]
- Representative of the Science Party Shinji Tsuchida [JAMSTEC]
- Title of proposal Researches on marine ecosystem dynamics in the Tsunami affected area off Sanriku.
- Cruise period July 8<sup>th</sup> –26<sup>th</sup> 2017
- Ports of departure / call / arrival JAMSTEC/Ishinomaki/JAMSTEC
- Research area off Sanriku
- Research map

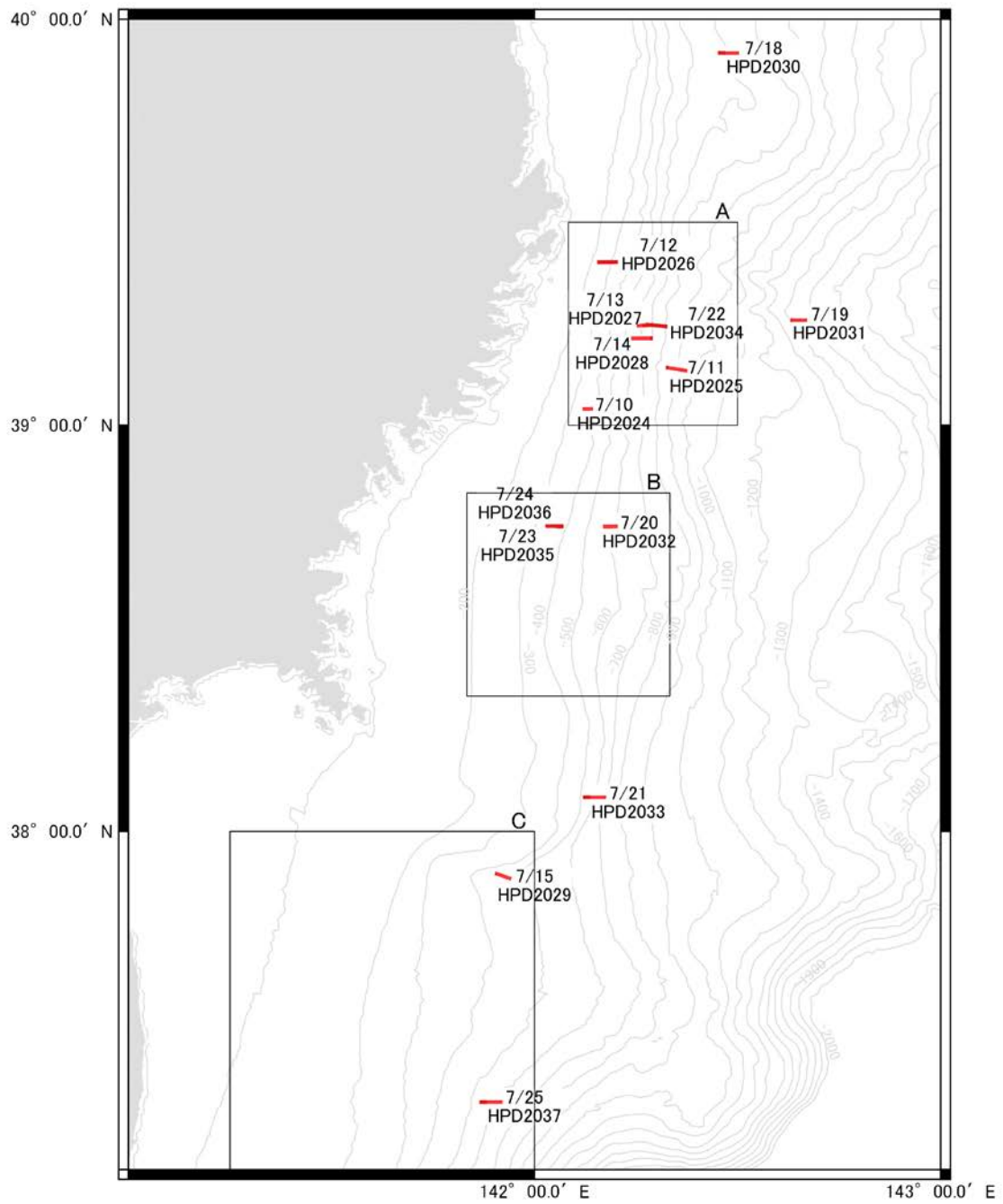


Figure Bathymetric map of the research area and survey lines of ROV Hyper-Dolphin #2024-2037

## **2. Overview of the Observation**

- Topographic survey

During the cruise, bathymetry data off Fukushima, Miyagi, Iwate was obtained by SEABAT.

- Marine environmental information was acquired by XCTD casting and ADCP measuring.

- Quantitative observation of benthic animals and debris using by the bottom observation camera system

The quantitative biomass of benthic animals and mass of marine debris were observed by the main HDTV and the bottom observation camera systems loaded on the rear of the Hyper-Dolphin for establishing the habitat models, and for comparing biodiversity between in and outside of the deep-sea canyon off Kamaishi

- Biological sampling for estimating parameters of the ecosystem model.

As the candidates of functional groups of Ecopath model, ophiuroids, dahlia anemone, and other benthic animals were collected for stomach contents analysis.

- Title of project

Project Team for Analyses of Changes in East Japan Marine Ecosystems  
(Tohoku Ecosystem-Associated Marine Sciences)