

# Cruise Summary

## 2-1. Cruise Information

- Cruise ID KM18-05C
- Name of vessel Kaimei
- 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: May 29<sup>th</sup> –June 18<sup>th</sup> 2018
- Ports of departure / call / arrival: JAMSTEC/Ishinomaki/JAMSTEC
- Research area: off Sanriku
- Research map

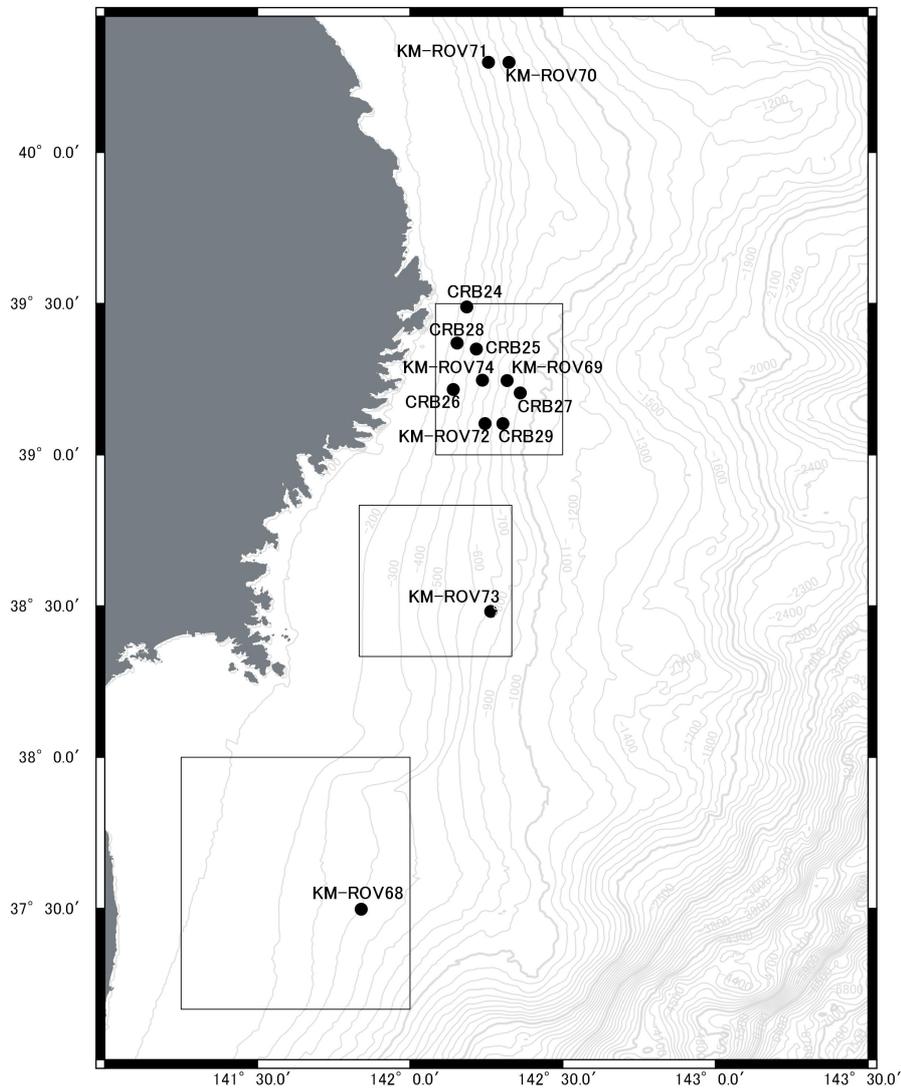


Figure Bathymetric map of the research area and dive points of ROV Crambon #24-29, and KM-ROV #68-74

## 2-2. 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 XBT casting.

- 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 camera of KM-ROV and ROV Crambon. Also, the bottom observation camera system loaded on the rear of the ROVs obtained still images for establishing the habitat models, and for comparing biomass with trawl data sets taken by Iwate Fisheries Technology Center.

- 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 Science)