

Cruise Summary

1. Cruise Information

- Cruise ID KM19-05C
- 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: Katsunori Fujikura [JAMSTEC]
- Title of proposal: Researches on marine ecosystem dynamics in the Tsunami affected area off Sanriku.
- Cruise period: July 14th –August 7th 2019
- Ports of departure / call / arrival: JAMSTEC/Kamaishi/Miyako
- Research area: off Sanriku
- Research map

KM19-05C, TEAMS, Research, Result, Area A, Off SANRIKU

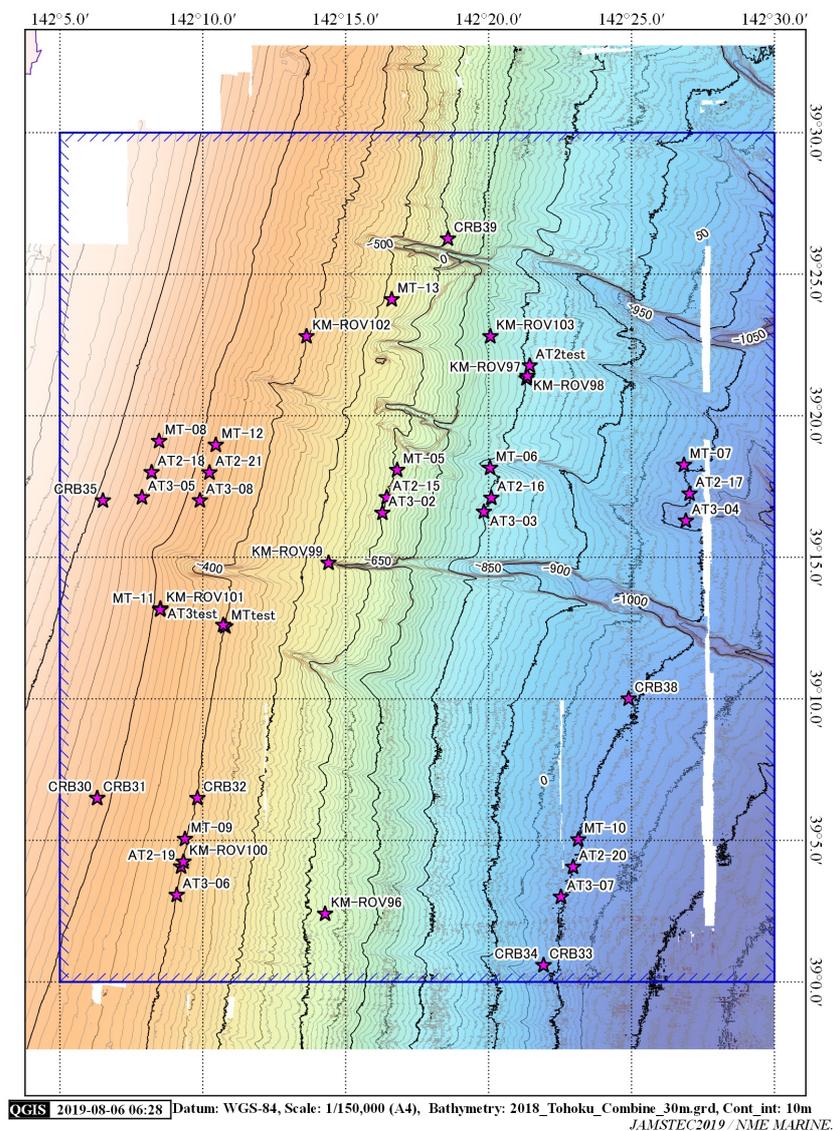


Figure Bathymetric map of the research area and survey points of ROV Crambon #30-29, and KM-ROV #68-74

2. Overview of the Observation

- Topographic survey

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

- Marine environmental information was acquired by XBT casting.
- Biomass estimation for Ecopath Model

Quantitative observation of benthic animals and demersal fish was carried out using by main camera of ROVs and the bottom observation camera system keeping same altitude for five minutes observations.

- Biological sampling for estimating parameters of the ecosystem model.

As the candidates of functional groups of Ecopath Model, benthic animals and demersal fish were collected for stomach contents analysis using by the suction sampler loaded on the ROVs and baited trap.

- Biomass estimation of scavenging animals and fish

First arrival times of each species were recorded by the baited cameras for estimating density. Each species density will be converted to the biomass using average weight by referrences or samples.

- Title of project

Tohoku Ecosystem-Associated Marine Scienc