

Cruise Summary

1. Cruise Information

- Cruise ID KS-19-7
- Name of vessel R/V Shinsei-Maru
- Title of cruise

Research on the disturbance and recovery process of the ecosystem in Sanriku coastal area after the Tsunami

- Chief Scientist [Affiliation] Toshi Nagata, AORI, The University of Tokyo
- Cruise period May 1, 2019 – May 10, 2019
- Ports of departure / call / arrival Ishinomaki-Miyako-Yokosuka
- Research area Sanriku coastal area
- Representative of Science Party [Affiliation] Toshi Nagata AORI, The University of Tokyo

2. Overview of Research Activities

- Monitoring of the ecosystem of Sanriku coastal area

Purpose: To investigate the recovery process of ecosystem properties in the Sanriku area after the huge Tsunami that struck on the region on 11 March 2011.

Methods:

CTD-RMS sampling (chlorophyll, nutrients, TS, particulate and dissolved organic matter, environmental DNA, phytoplankton composition), LISST (particle abundance and size composition). NorPac net (zooplankton abundance and composition), Beam trawl (collection of benthic organisms)

Results: Sample and data analyses are in progress at onshore laboratories.

- Investigation of the physical dynamics of in the Sanriku coastal area

Purpose: To investigate the dynamics of fronts and seawater exchange between the bay and the offshore in the Sanriku coastal area

Methods: UCTD (high resolution survey of temperature, salinity, chlorophyll , turbidity and oxygen), VMP250 (turbulence)

Results: Sample and data analyses are in progress at onshore laboratories.