

# Cruise Summary

## 1. Cruise Information

(1) **Cruise ID:** KS-19-20

(2) **Vessel:** R/V SHINSEI MARU

(3) **Cruise Title**

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

(4) **Chief Scientist**

Toshi Nagata (AORI)

(5) **Representative of the Science Party**

SH19-03\_02 Toshi Nagata (AORI)

(6) **Research Titles**

SH19-03\_02 Research on the disturbance and recovery process of the ecosystem in Sanriku coastal area after the Tsunami

(7) **Cruise Period**

2019/10/08 - 2019/10/16

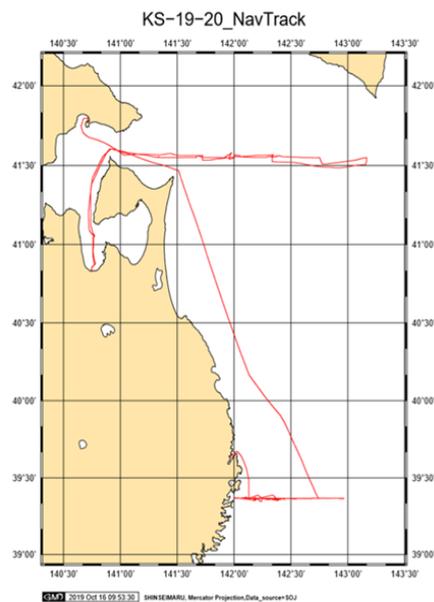
(8) **Ports of departure/call/arrival**

Miyako - Hakodate

(9) **Research Area**

Sanriku coastal area

(10) **Cruise Track**



## 2. Overview of the Observation

- 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), 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.