Cruise Summary

1. Cruise Information

(1) **Cruise ID:** KS-20-15 Leg2

(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**

Shigeaki Kojima (Graduate School of Frontier Sciences, The University of Tokyo)

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

S20-27 Toshi Nagata (AORI)

(6) **Research Titles**

S20-27 Research on the disturbance and recovery process of the ecosystem in Sanriku coastal area after the Tsunami

(7) **Cruise Period**

2020/09/30 - 2020/10/05

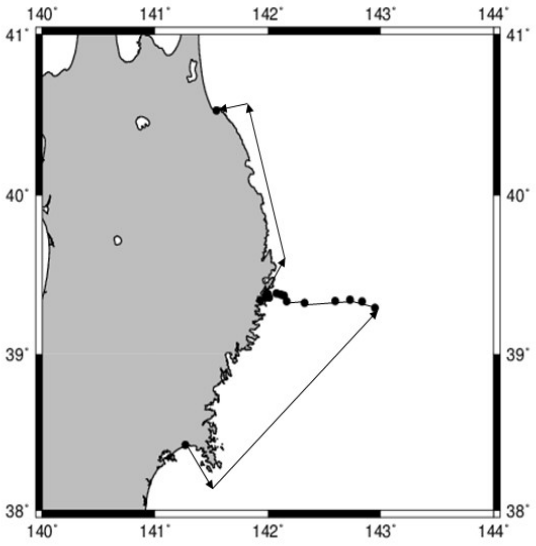
(8) **Ports of departure/call/arrival**

Ishinomaki - Hachinohe

(9) **Research Area**

The Pacific Ocean off Sanriku

(10) **Cruise Track**



2. Overview of the Observation

1．CTD and sea water sampling by using Niskin samplers

St. OT6　39º19.96’N, 142º50.00’E; 1 Oct 2020

St. OT4　39º20.00’N, 142º09.92’E; 2 Oct 2020

St. OT-S　39º21.38’N, 142º00.63’E; 3 Oct 2020

St. OT3　39º21.51’N, 141º58.81’E; 3 Oct 2020

St. 2　39º20.44’N, 141º56.05’E; 4 Oct 2020

St. OT-N　39º23.09’N, 141º59.22’E; 4 Oct 2020

Samples will be analyzed at the Atmosphere and Ocean Research Institute, Graduate School of Science, The University of Tokyo, and Graduate School of Agricultural and Life Sciences, the University of Tokyo

2.　Sampling of deep-sea benthic organisms by using a 3m bean trawl

St. OT1840　39º17.50’–16.36’N, 142º56.88’–56.79’E

水深 1,850–1,831 m; 1 Oct 2020

St. OT1840　39º14.79’–15.99’N, 142º57.11’–57.02’E

水深 1,827–1,833 m; 1 Oct 2020
St. OT1550　39º21.02’–20.11’N, 142º43.13’–43.01’E
水深 1,594–1,590 m; 1 Oct 2020
St. OT1550　39º20.97’–19.96’N, 142º42.05’–41.73’E
水深 1,559–1,557 m; 1 Oct 2020
St. OT1320　39º19.49’–20.81’N, 142º35.71’–35.76’E
水深 1,337–1,306 m; 2 Oct 2020
St. OT760　39º18.98’–19.81’N, 142º19.34’–19.54’E
水深 761–765 m; 2 Oct 2020
Samples will be analyzed at the Atmosphere and Ocean Research Institute, the University of Tokyo and the Meguro Parasitological Museum.

3. Sampling of deep-sea benthic organisms by using a biological dredge
St. OT200　39º22.28’–22.07’N, 142º08.56’–08.49’E
水深 221–222 m; 3 Oct 2020
St. OT200　39º22.72’–22.60’N, 142º08.58’–08.53’E
水深 217–216 m; 3 Oct 2020
St. OT200　39º22.74’–22.53’N, 142º08.65’–08.53’E
水深 220–217 m; 3 Oct 2020
St. OT160　39º22.60’–22.53’N, 142º06.78’–06.78’E
水深 170–171 m; 4 Oct 2020
St. OT130　39º23.12’–22.94’N, 142º04.53’–04.51’E
水深 144 m; 3 Oct 2020
St. OT130　39º22.73’–22.48’N, 142º04.54’–04.53’E
水深 145–144 m; 3 Oct 2020
St. OT130　39º22.82’–22.68’N, 142º02.82’–02.81’E
水深 121 m; 4 Oct 2020
St. OT160　39º22.60’–22.53’N, 142º06.78’–06.78’E
水深 170–171 m; 4 Oct 2020
St. OT90　39º22.78’–22.68’N, 142º00.00’–00.00’E
水深 91–93 m; 3 Oct 2020
St. OT90　39º22.10’–22.04’N, 141º59.83’–59.73’E
水深 89–86 m; 4 Oct 2020
Samples will be analyzed at the Atmosphere and Ocean Research Institute, the University of Tokyo and the Meguro Parasitological Museum.

4. Sampling of deep-sea bottom sediment by using multiple corer

St. OT1840　39º16.62’N, 142º57.45’E、水深 1847 m; 1 Oct 2020

St. OT1550　39º19.99’N, 142º43.06’E、水深 1593 m; 1 Oct 2020

St. OT1550　39º21.89’N, 142º43.03’E、水深 1579 m; 1 Oct 2020

Due to a mechanical trouble of a multiple corer, sample was not available