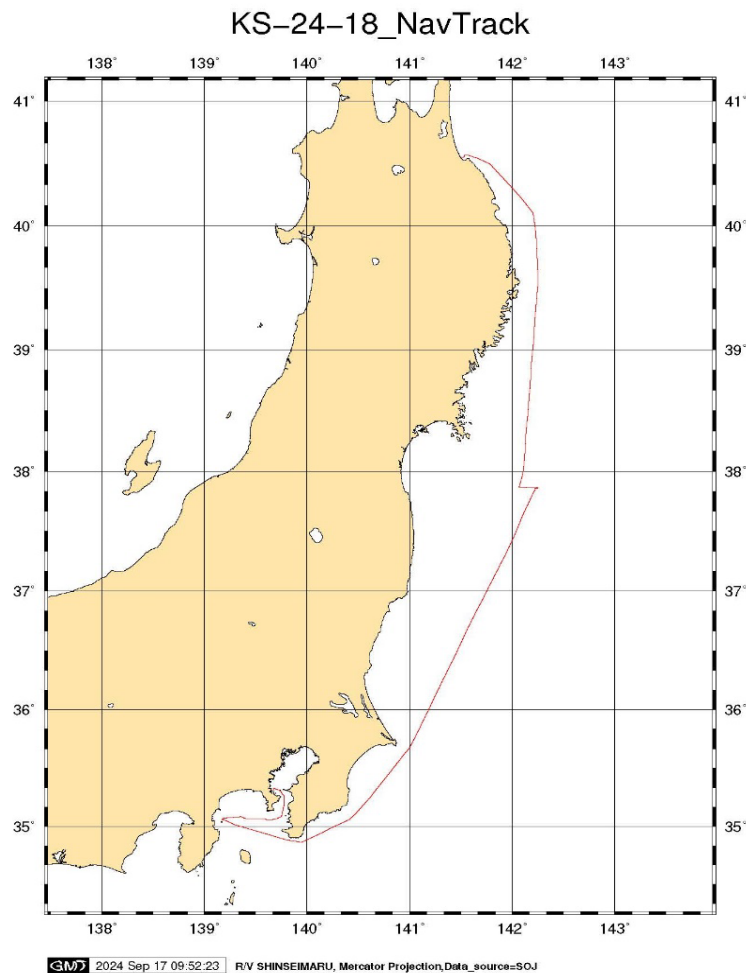


Cruise Summary

1. Cruise Information

- (1) **Cruise ID:** KS-24-18
- (2) **Vessel:** R/V SHINSEI MARU
- (3) **Cruise Title**
Operational performance verification test of observation equipments for the Joint Usage/Joint Research Expeditions
- (4) **Chief Scientist**
Junichiro Kuroda (AORI, The University of Tokyo)
- (5) **Representative of the Science Party**
KS-24-18_1 Junichiro Kuroda (AORI, The University of Tokyo)
- (6) **Research Titles**
KS-24-18_1 Operational performance verification test of observation equipments for the Joint Usage/Joint Research Expeditions
- (7) **Cruise Period**
2024/09/13 -
- (8) **Ports of departure/call/arrival**
Hachinohe -
- (9) **Research Area**
Off Fukushima and Sagami Bay

(10) Cruise Track



2. Overview of the Observation

This cruise was an operational performance test of the instruments used in the Joint Usage/Joint Research Expeditions. In this cruise, we conducted 1) surface sediment sampling tests using a multiple corer (MC) and an Ashula sediment sampler (AC), 2) shipboard geomorphological/subbottom survey tests, 3) VMPS operation tests, and 4) flow meter calibration. First, sediment sampling tests were conducted at St. MC01, off Fukushima, Japan, using information on seafloor topography and shallow seafloor cross sections obtained from the shipboard SBP/MBES observations. The sediment sampling with 100 cm-long pipes, which is under development at AORI, was conducted, and good recovery was achieved. At the Sagami Bay site, the operation of the VMPS was verified and the flow meters were calibrated. AORI hopes to maintain a system in which various observation

instruments can be used on many joint-usase expeditions while maintaining high performance through the operational performance test cruises.