

# Cruise Summary

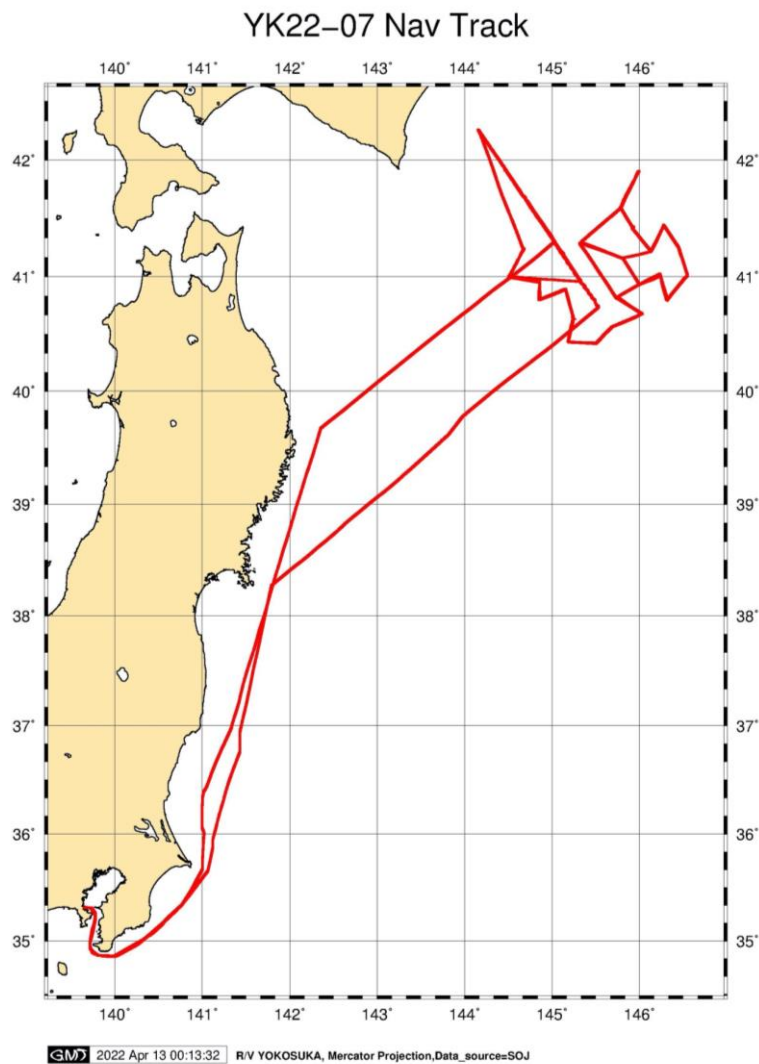
## 1. Cruise Information

- Cruise ID: YK22-07
- Name of vessel: R/V Yokosuka
- Title of the cruise: Wide-area 2-D seismic survey of earthquake source faults and seismicity observation in and around the Kuril Trench area
- Chief scientist: Koichiro Obana [JAMSTEC]
- Representative of the Science Party: Seiichi Miura[JAMSTEC]
- Title of proposal:

High precision wide-area survey of earthquake source faults: seismic survey and crustal activity observation
- Cruise period:

April 3, 2022 – April 13, 2022
- Ports of departure / call / arrival:

Yokosuka (Nissan Pier No. 6) – Yokosuka (JAMSTEC)
- Research area: Kuril Trench
- Research map



## **2. Overview of the Observation**

This research cruise was planned to conduct the “Wide-area 2-D seismic survey of earthquake source faults in and around the Kuril Trench area”, as a part of the Project “High precision wide-area survey of earthquake source faults: seismic survey and crustal activity observation”. In this, cruise, we deployed the ocean bottom seismographs for structure survey and earthquake observation in Kuril Trench.

### **(1) OBS deployment**

We deployed 78 ocean bottom seismographs (OBSs) along a seismic survey line KT093 across the Kuril Trench and 24 OBSs for earthquake observation in the trench-outer trench area of the Kuril Trench and northern Japan Trench. OBS locations on the seafloor were determined by SSBL. These OBSs will be recovered during the KM22-07 cruise from May to June, 2022.

### **(2) CTD/XCTD observation**

During the cruise, XCTD observations were conducted at three sites.

### **(3) Bathymetry and gravity observation**

During the cruise, bathymetry and gravity data have been recorded continuously by multi-beam echo sounder (MBES), and three-component magnetometer, respectively.