

Cruise Summary

1. Cruise Information

(1) **Cruise ID:** KS-23-8

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

(3) **Cruise Title**

Observations of turbulent mixing at Izu-Ogasawara ridge and deep ocean seismic by floats

(4) **Chief Scientist**

Ryuichiro Inoue (JAMSTEC)

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

S23-38 Ryuichiro Inoue (JAMSTEC)

(6) **Research Titles**

S23-38 Observation of turbulent mixing at Izu-Ogasawara ridge and deep ocean sounding floats test

(7) **Cruise Period**

2023/06/18 - 2023/06/27

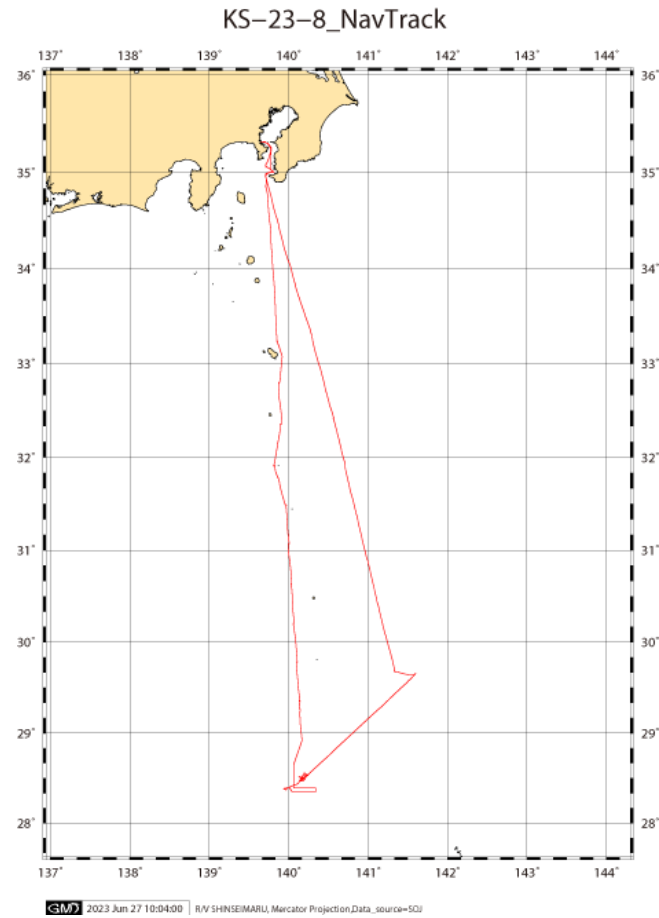
(8) **Ports of departure/call/arrival**

Yokosuka - Yokosuka

(9) **Research Area**

Izu-Ogasawara ridge

(10) Cruise Track



2. Overview of the Observation

We conducted ocean turbulence measurements by a float and expendable turbulence profiler as well as stratification and shear by TOW-YO CTD/LADCP in the Izu-Ogasawara ridge known as ocean mixing hotspot. We also launched newly-developed deep ocean floats, which equippe with a hydrophone, and conducted CTD and water sampling for evaluating a CTD sensor on the floats. We conducted aerological observation by GPS radio zondes to estimate amount of water vapor from sattelite data.