

Cruise Summary

1. Cruise Information

(1) **Cruise ID:** YK22-17C_leg1

(2) **Vessel:** S/V YOKOSUKA

(3) **Cruise Title**

Development of biodiversity monitoring methods for the management of deep-sea marine protected areas (Leg 1)

(4) **Chief Scientist**

Yoshihiro Fujiwara (JAMSTEC)

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

JC22-03 Katsunori Fujikura (JAMSTEC)

(6) **Research Titles**

JC22-03 FY2022 R/V Yokosuka development of MPA monitoring method cruise

(7) **Cruise Period**

2022/09/18 - 2022/09/25

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

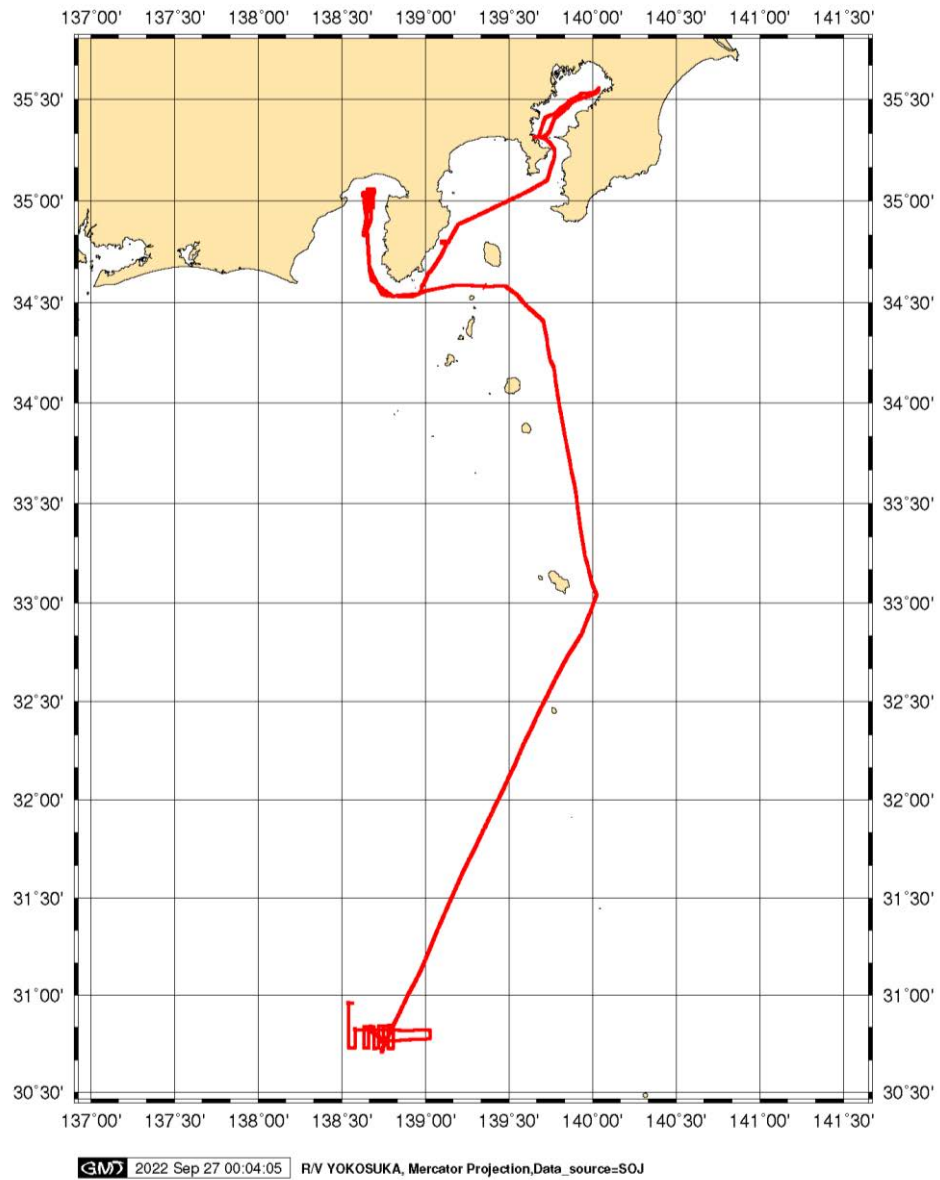
Yokosuka -

(9) **Research Area**

Suruga Bay & Nishi-Shichito Ridge

(10) Cruise Track

YK22-17C_Leg2 Nav Track



2. Overview of the Observation

A deep-sea research cruise was conducted at Suruga Bay and the Nishi-Shichito Ridge from September 21 to September 25, 2022 to develop novel monitoring methods for offshore seabed nature conservation areas and to acquire baseline data on the faunal diversity. Two Shinkai 6500 dives, two baited camera casts, and two lander cast were conducted at Suruga Bay and Hoei Seamount. A newly developed deep-sea lander equipped with three water sampling bottles, two water filtration systems, three sediment corers, several physico-chemical sensors, and a video camera was deployed at a depth of 1200 m in Suruga Bay and at a depth of 2178 m at the base of Hoei Seamount, and water, sediment, and filtered particles were successfully collected during two casts in addition to video footage and physico-chemical measurements. About 100 biological samples, sediments, water sample, filtered samples, video footage, and photographs were taken during the Shinkai 6500 dives to obtain baseline information.