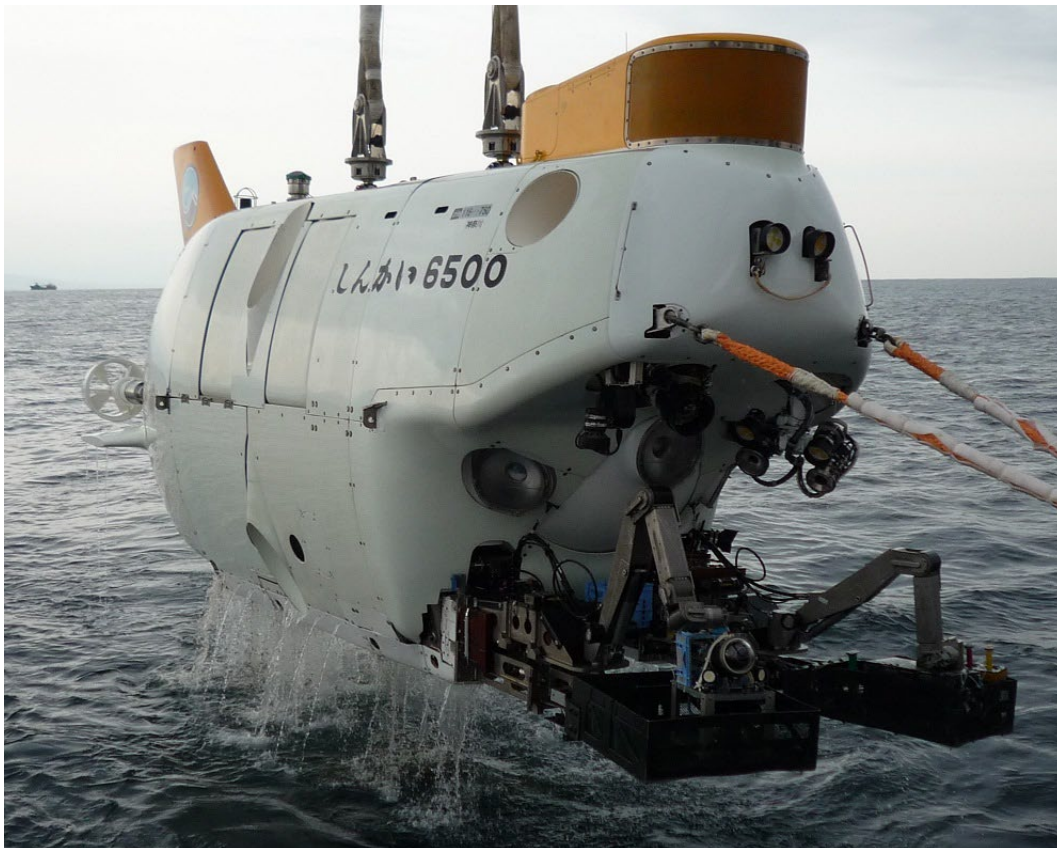




R/V Yokosuka “Cruise Report”
YK22-04

Dive test of Shinkai6500

February 24, 2022 - March 5, 2022



Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)

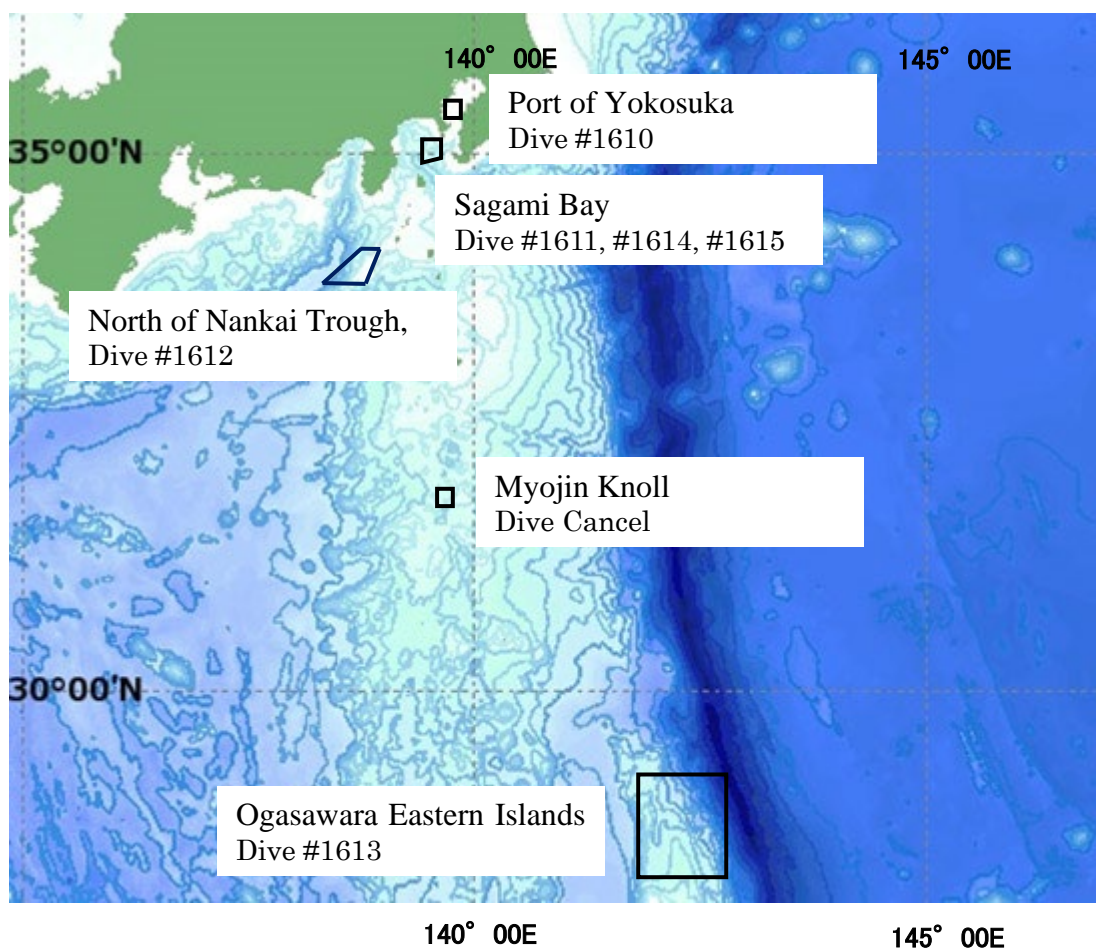
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1. Cruise Information

- Cruise ID
YK22-04
- Name of vessel
R/V Yokosuka
- Title of cruise
Dive test of Shinkai6500
- Chief Scientist [Affiliation]
Shinobu Omika[JAMSTEC]
- Cruise period
February 24, 2022 - March 5, 2022
- Ports of departure / call / arrival
Departure: JAMSTEC, Yokosuka
Arrival: JAMSTEC, Yokosuka
- Research area
Sagami Bay, North of Nankai Trough, Ogasawara Eastern Islands, Myojin Knoll,
Izu-Ogasawara trench

- Research map



2. Research Proposal and Science Party

- Title of proposal
Dive test of Shinkai6500
- Representative of Science Party [Affiliation]
Shinobu Omika [JAMSTEC]
- Science Party (List) [Affiliation, assignment etc.]
Chief Investigator:
Shinobu Omika [JAMSTEC]
Onboard Researchers:
Mitsuru Torigoe [JAMSTEC]
Jyunji Kaneko [JAMSTEC]
Tomo Kitahashi [JAMSTEC]

3. Research/Development Activities

A. Test of Shinkai6500

"Shinkai 6500" dived after the regular inspection work. In addition, "Shinkai 6500" made a training dive to train pilots and improve their skills. As additional work, the following work was carried out.

(1) Taken a seafloor image with a payload 4K camera

(2) A deep-sea high-resolution stand-alone camera system was installed on the seabed, and the work scenery of "Shinkai 6500" was acquired. Also, in collaboration with Kawasaki Frontale Co., Ltd., the food (kamaboko) and stuffed animals that imitated the characters were submerged and photographed.

(3) A seawater filtration / transport system for detecting seawater microplastics and a hyperspectral camera were installed on board and tested.

B. Activities

Table 1 shows the activities of the cruise.

Date	Dive No.	Activities	
Feb.24	#1610	<ul style="list-style-type: none"> • Departed from Jamstec Yokosuka • Shinkai 6500 Dive • Submerge a little in the sea (5m) 	Port of Yokosuka
Feb.25	#1611	<ul style="list-style-type: none"> • Shinkai 6500 Dive • Dive at a depth of 1445m 	Sagami Bay
Feb.26	#1612	<ul style="list-style-type: none"> • Shinkai 6500 Dive • Dive at a depth of 3548m 	North of Nankai Trough,
Feb.27	-	<ul style="list-style-type: none"> • Maintenance date • Bad sea conditions 	Rounding to Ogasawara Eastern Islands
Feb.28	#1613	<ul style="list-style-type: none"> • Shinkai 6500 Dive • Dive at a depth of 6486m 	Ogasawara Eastern Islands
Mar.1	-	<ul style="list-style-type: none"> • Dive Cancel • "Yokosuka" defect 	<ul style="list-style-type: none"> • Myojin Knoll • Rounding to JAMSTEC
Mar.2	-	<ul style="list-style-type: none"> • "Yokosuka" Repair completed 	JAMSTEC, Yokosuka
Mar.3	#1614	<ul style="list-style-type: none"> • Shinkai 6500 Dive • Dive at a depth of 1200m 	Sagami Bay
Mar.4	#1615	<ul style="list-style-type: none"> • Shinkai 6500 Dive • Dive at a depth of 1200m 	Sagami Bay
Mar.5	-	Arrived at YOKOSUKA (JAMSTEC)	

4. Notice on Using

This cruise report is a preliminary documentation as of the end of cruise.
This report is not necessarily corrected even if there is any inaccurate description (i.e. taxonomic classifications). This report is subject to be revised without notice. Some data on this report may be raw or unprocessed. If you are going to use or refer the data on this report, it is recommended to ask the Chief Scientist for latest status.
Users of information on this report are requested to submit Publication Report to JAMSTEC.

<http://www.godac.jamstec.go.jp/darwin/explain/1/e#report>
E-mail: submit-rv-cruise@jamstec.go.jp