



R/V Yokosuka “Cruise Report”
YK20-E05C

Dive test of Urashima in Sagami-Bay

August 25,2020-September 1,2020



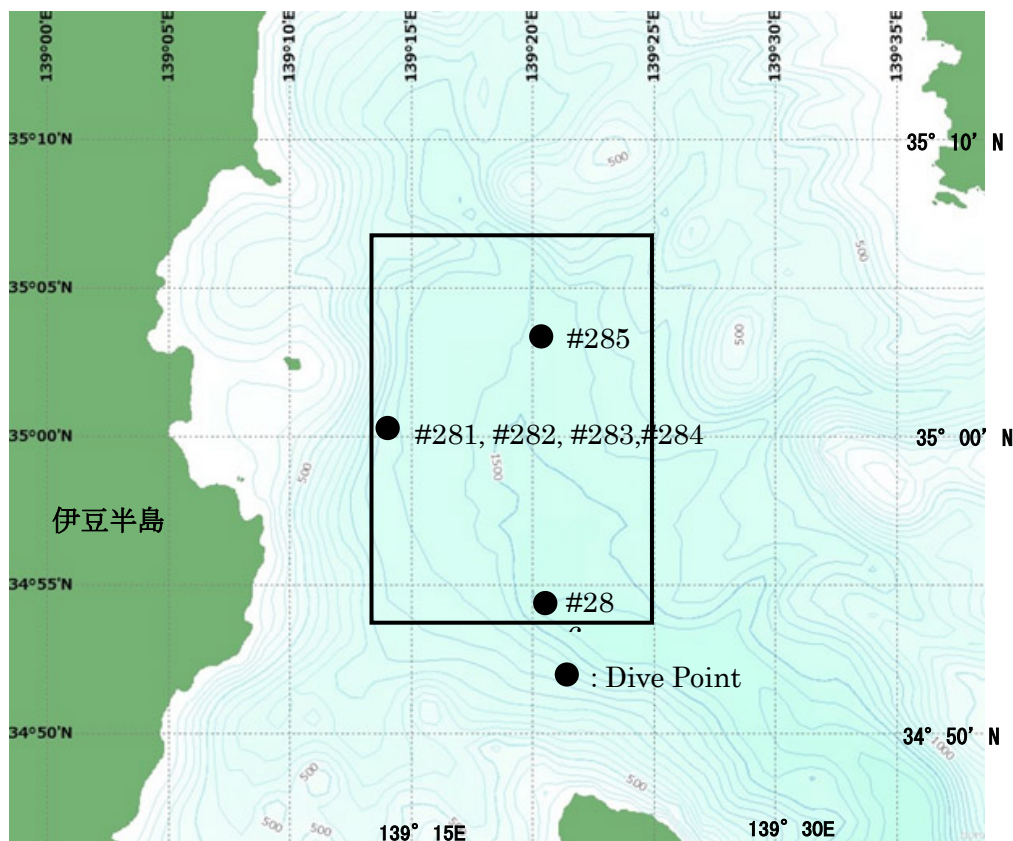
Japan Agency for Marine-Earth Science and Technology
(JAMSTEC)

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1. Cruise Information

- Cruise ID
YK20-E05C
- Name of vessel
R/V Yokosuka
- Title of cruise
Dive test of Urashima in Sagami-Bay
- Chief Scientist [Affiliation]
Shinobu Omika[JAMSTEC]
- Cruise period
August.25,2020-September.1,2020
- Ports of departure / call / arrival
Departure: JAMSTEC, Yokosuka
Arrival: JAMSTEC, Yokosuka
- Research area
Sagami-Bay
- Research map



2. Research Proposal and Science Party

- Title of proposal
Project for research and development of methane hydrate: Oceanological site survey for exploratory excavation and experimental production
- Representative of Science Party [Affiliation]
Tomokazu Saruhashi [JAMSTEC]
- Science Party (List) [Affiliation, assignment etc.]
Chief Investigator:
Shinobu Omika [JAMSTEC]
Onboard Researchers:
Takahiro Yokoyama [JAMSTEC]
Noriaki Sakurai [JAMSTEC]
Takafumi Omura [Clover tech Inc.]

3. Research/Development Activities

A. Test of Urashima

Urashima has not been dived since its voyage in June 2017 and is scheduled to be commissioned in December of this year. In preparation for December voyage, the function and operation of the voyage were checked after maintenance and repairs. As a defect, although an acoustic command (downlink command) was transmitted from the ship, the command did not pass to "Urashima", and there were three events in which the "pressure vessel inundation" alarm was issued and the floating mode was entered. Regarding the phenomenon that the downlink command cannot be communicated, the disconnection of the downlink receiver of "Urashima" was the cause. The "pressure-resistant container flooding" was due to corrosion of the aluminum pressure-resistant container and flooding of the optical connector body. The pressure vessel and the optical connector were replaced.

B. Activities

Table 1 shows the activities of the cruise. In this cruise, we conducted a dive and a wet test of Urashima

Date	Dive No.	Activities	
Aug.25	#281	• Departed from Jamstec Yokosuka • Urashima Dive • “pressure vessel inundation”	Levitated midway due to flooding
Aug.26	#282	• Urashima Dive • “pressure vessel inundation”	Levitated midway due to flooding
Aug.27	—	Return to JAMSTEC for maintenance	

Aug.28	#283	• Urashima Dive • Downlink command is not available	Levitated midway due to Timeout
Aug.29	#284	• Urashima Dive	Mission complete
Aug.30	#285	• Urashima Dive • “pressure vessel inundation”	Levitated midway due to flooding
Aug.31	#286	• Urashima Dive	Mission complete
Sep.1	—	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>

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