

Cruise Summary

1. Cruise Information

1.1. Cruise ID: NT15-14

1.2. Name of vessel: Natsushima

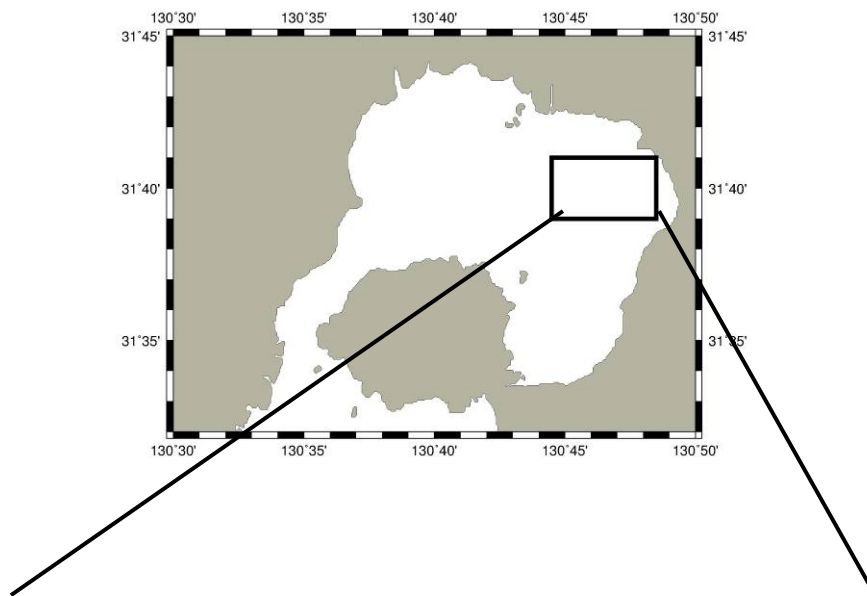
1.3. Title of the cruise: Prize Cruise for the Postcard Design Contest

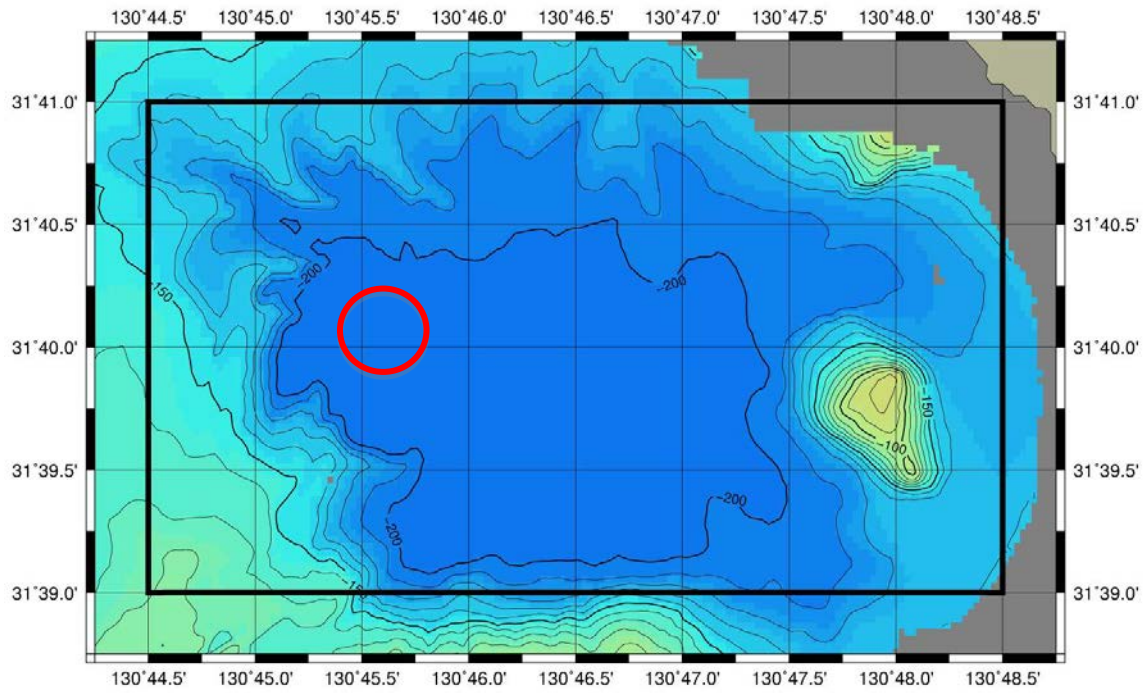
1.4. Cruise period: August 8, 2015 – August 10, 2015

1.5. Ports of call: Kagoshima – Kagoshima – Kagoshima – Kagoshima

1.6. Research area: Kagoshima Bay

1.7. Research Map





August 8, 9, and 10: 31°40.10'N, 130°45.70'E (Depth: 200 m)

2. List of Participants

- 2.1. Chief scientist: Shigeyuki Hirose [JAMSTEC, Public Relations Division (PRD)]
- 2.2. RePresentative of Science Party: Shigeyuki Hirose [JAMSTEC, Public Relations Division (PRD)]
- 2.3. Scientist: Katsunori Fujikura [JAMSTEC, Department of Marine Biodiversity Research (B-DIVE)]
 - Yabuki Akinori [JAMSTEC B-DIVE]
 - Gotoh Shinpei [JAMSTEC B-DIVE]
 - Katsura Shibata [JAMSTEC PRD]
 - Hajime Kawakami [JAMSTEC PRD]
 - Takanori Kanai [JAMSTEC PRD]
 - Yukiko Fujii [JAMSTEC PRD]
 - Kyoko Takeuchi [JAMSTEC PRD]
 - Mayumi Kodama [JAMSTEC PRD]
 - Ryousuke Komi [Tokyo Sea Life Park]
 - Suguru Nemoto [Enoshima Aquarium]
 - Yoshihiro Suzuki [Enoshima Aquarium]
 - Ayuta Yamaki [Kagoshima City Aquarium]
 - Tomoko Yamamoto [Kagoshima University]
 - Makoto Shirabe [NiGK Corporation]
- 2.4. Passengers: 15 persons

3. Observation

3.1. Cruise summary

Shigeyuki Hirose [JAMSTEC PRD]

JAMSTEC provided a single-day boarding experience on the R/V Natsushima to the children who won prizes in the 17th Postcard Design Contest and their parents, in order that they had a better understanding of and deeper interests in the oceans.

Boarding experiences on the R/V Natsushima were carried out in the three days including the underwater navigations of the remotely operated vehicle Hyper-Dolphin. During the underwater navigations of Hyper-Dolphin, organisms such as conger and rockfish, and submarine hot spring (30–100°C) were observed through the high-definition marine camera. We carried out the submarine experiments and performance tests of the apparatus for *in-situ* collection and fixation of microbes during the underwater navigations. Around the sea floor, the children and parents tried to operate the Hyper-Dolphin from the control room on the R/V Natsushima as well. On board, the children and parents observed and dissected the organisms sampled in this cruise.

3.2. Dive information

(1) Dive #1863

Date: August 8, 2015 (JST)

Site: Wakamiko Crater in Kagoshima Bay ($31^{\circ}40.08\text{N}$, $130^{\circ}45.69\text{E}$); Depth: 200–201 m

Landing (Time, Depth): 10:57, 201 m

Leaving (Time, Depth): 13:30, 200 m

(2) Dive #1864

Date: August 9, 2015 (JST)

Site: Wakamiko Crater in Kagoshima Bay ($31^{\circ}40.06\text{N}$, $130^{\circ}45.69\text{E}$); Depth: 197–201 m

Landing (Time, Depth): 10:43, 200 m

Leaving (Time, Depth): 14:00, 200 m

(3) Dive #1688

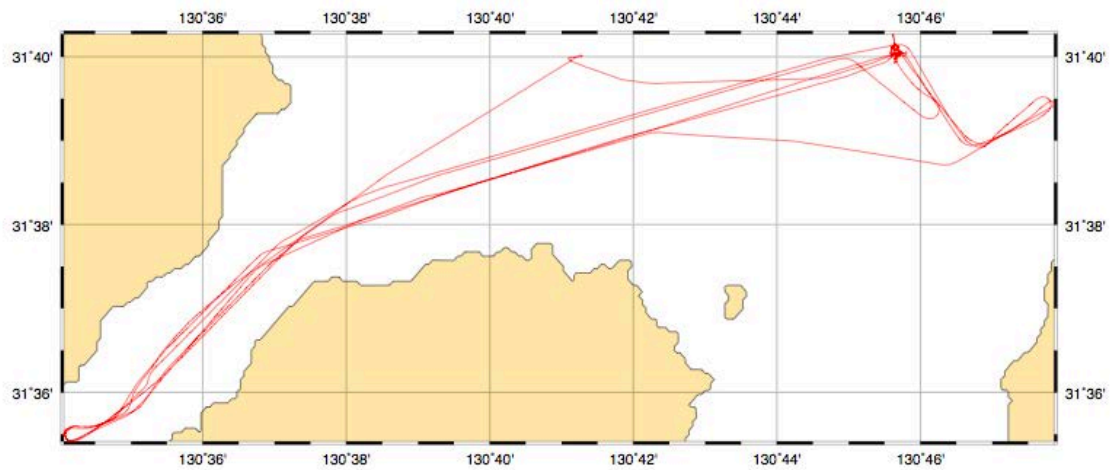
Date: August 10, 2015 (JST)

Site: Wakamiko Crater in Kagoshima Bay ($31^{\circ}40.05\text{N}$, $130^{\circ}45.67\text{E}$); Depth: 198–201 m

Landing (Time, Depth): 10:49, 199 m

Leaving (Time, Depth): 14:00, 200 m

3.3. Cruise track



Cruise track of NT14-12