

Cruise Summary

1. Cruise Information

1.1 Cruise Number: NT10-15

1.2 Ship Name: Natsushima

1.3 Title of the cruise: Deep-sea research 2010, “Hyper-dolphin” Research cruise

1.4 Chief Scientist: Tetsuya MIWA [JAMSTEC]

1.5 Representative of Science Party:

Yasushi TAYA, JAMSTEC

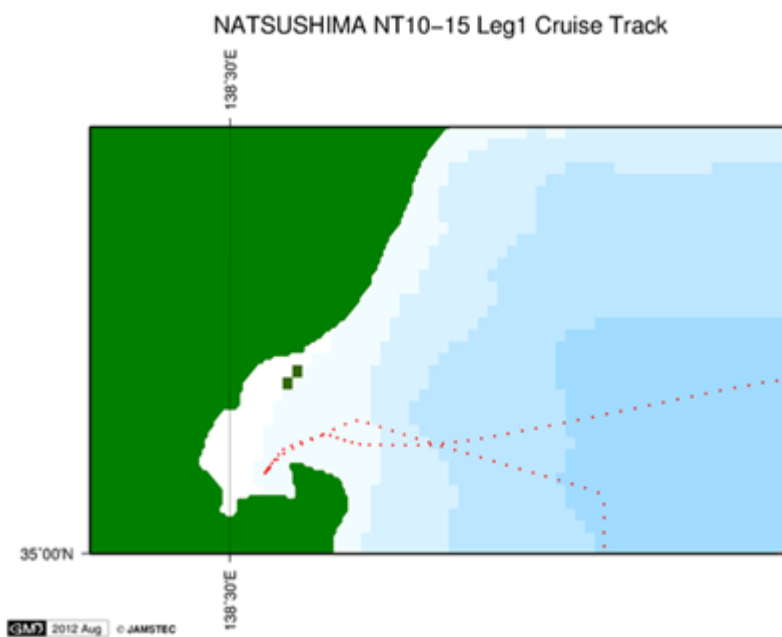
Title of proposal: “Submersible exploration for filming video” and “Public relations cruise with museums and aquariums”

1.6 Cruise period: from August 18, 2010 to August 25, 2010

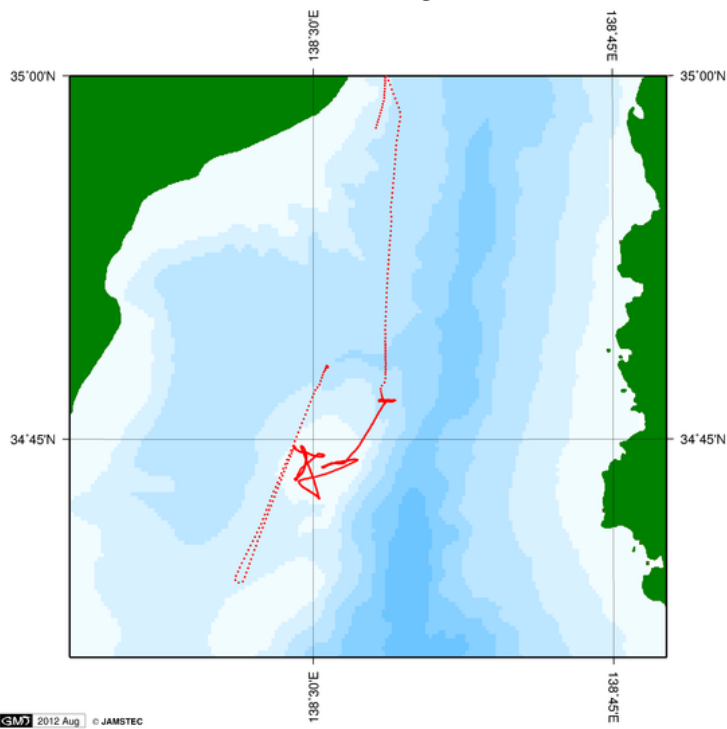
1.7 Port call: from Shimizu port to Yokosuka port

1.8 Research area: Suruga Bay, Sagami Bay

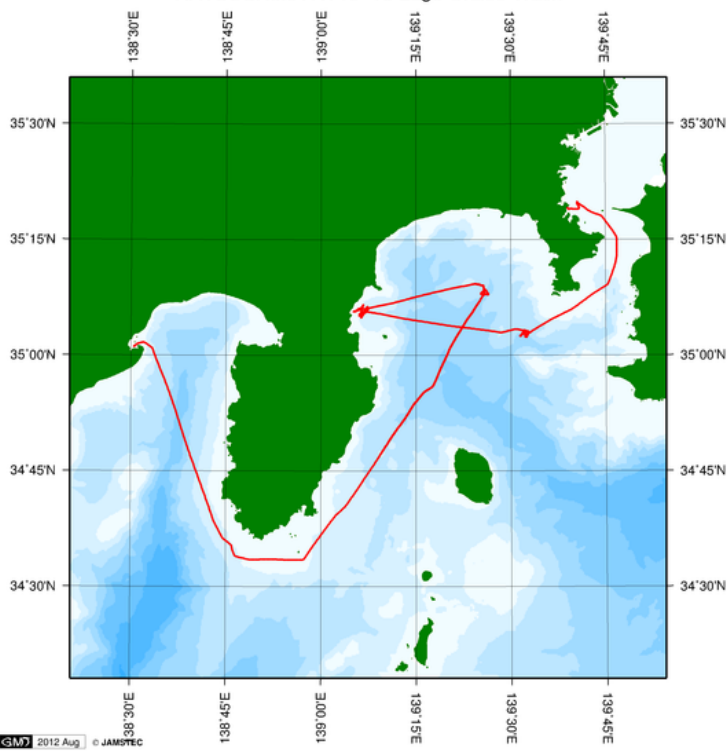
Research Map: Cruise Track



NATSUSHIMA NT10-15 Leg2 Cruise Track



NATSUSHIMA NT10-15 Leg3 Cruise Track



2. Overview of Observation

Underwater photography was conducted to obtain publicity video materials. In addition, cooperation between the museum / aquarium and the public relations section was planned. Divided into three legs, the following four themes were implemented.

<Theme 1>

The Japan Broadcasting Corporation (NHK), which applied for the open-type proposal of material-video cooperation, was selected as the video material shooting partner.

The precious ecology of deep-sea creatures from the middle to the bottom of the Suruga Bay area was recorded using advanced technology and state-of-the-art equipment. High-definition video was recorded using the “Super Harp” high-sensitivity high-definition camera installed in Hyper Dolphin. Moreover, the deep sea shark which does not appear easily under artificial lighting was photographed using an acoustic camera, and the observation record of the natural behavior of the deep sea shark that has not been photographed so far was obtained.

<Theme 2>

TOKYO BROADCASTING SYSTEM TELEVISION, INC., which applied for the open-type proposal of material-video cooperation, was selected as the video material shooting partner.

We surveyed and photographed deep-sea sharks and deep-sea creatures, and broadcasted them on the “Jump out! Kagaku-kun” program. In addition, we introduced that the sea near Japan (Suruga Bay) is one of the world's leading treasures of deep-sea creatures.

<Theme 3>

The purpose was to collect publicity video materials and samples for display (rocks, etc.). In addition, through the boarding of nearby museums, aquarium curators, etc., we promoted understanding of the mechanism work and further strengthened cooperation. The results of this cruise aimed at outreach development not only at our organization but also at special exhibitions at each building.

<Theme 4>

The experiment ideas that were recruited and selected on the homepage were tested by opening part of the payload bay of Hyper Dolphin to the individuals or groups who

applied. A part of the payload bay of Hyper Dolphin (30 squares on the public offering) was used in common with each Leg.