

JAMSTEC High-School Science Cruise NT14-04

Cruise Summary

March 26- 29, 2014

Cruise Outline

This cruise with an actual oceanographic vessel is carried out for the selected high school students for the purpose of experiencing the flow of a series of researches from acquisition of research data to a result announcement. JAMSTEC high school aims at developing the creativity and intellectual curiosity of the high school students who is interested in earth science and bears the next generation.

Any high school students can apply by attending online lectures given by the researchers who play active parts in the front lines, and submitting reports of lectures and research plan. Submitted research plans are examined, and selected students experience the training course which consist of research cruise with oceanographic vessel “Natsushima” and the result announcement.

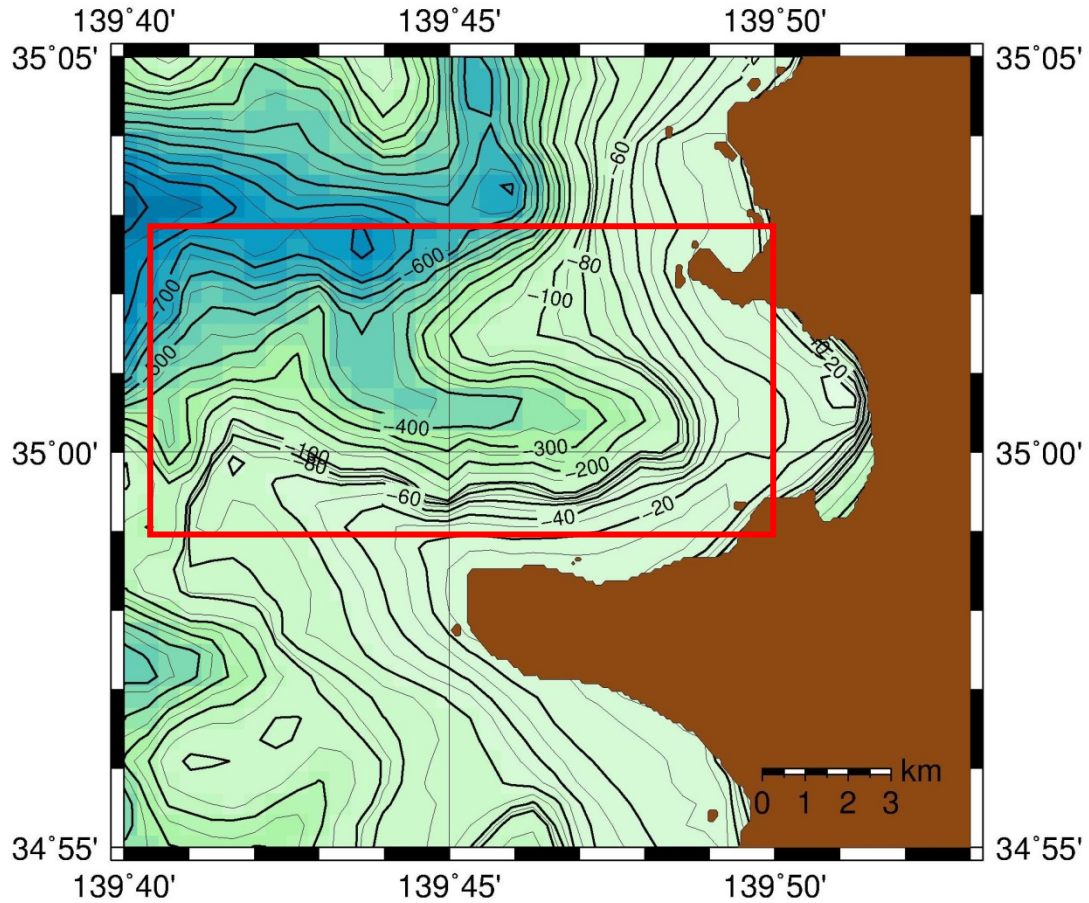
Even if students are left out of the selection, and are not able to get on board, we provide samples to the students and support their studies as far as possible.

In addition, this voyage is adopted as interior use subject in 2013 “JAMSTEC science high school (For high school students) research cruise” and carried out by oceanographic vessel “Natsushima”

Cruise Information

- Cruise ID: NT14-04
- Name of Vessel: Natsushima
- Title of the cruise: JAMSTEC High School Science Cruise
- Chief scientist [Affiliation]: Kyohiko Mitsuzawa [JAMSTEC]
- Representative of the science party [Affiliation]: Kyohiko Mitsuzawa [JAMSTEC]
- Title of the proposal: JAMSTEC Science high School [For high school students]
- Cruise period: March. 26, 2014 — March. 29, 2014
- Ports of call: Yokosuka - Yokosuka
- Research area: Tateyama Bay

Research area



Summary

This unprecedented cruise was designed for high school students, aiming at developing the creativity and intellectual curiosity of the high school students, through the experience the flow of a series of researches from proposal of research plan to a result announcement. With the data of bathymetric survey and samples of ocean floor sediment taken by multiple corer and piston corer, 8 high school students keep their study so far.

List of research subjects

1. An advance of mid-latitudes ocean acidification seen from planktonic foraminifera
2. Correlation between shell's strength and its structure -To measure and research the difference of intensity and composition ingredient by habitat -
3. Relations of the transportation action of the river and the transportation action of the ocean current - Influence of the ocean current on the sediment area derived from a river-
4. Circulation of iodine in natural environment - Change of iodine as a compound in the ocean floor sediment
5. About the influence of Fukushima daiichi nuclear power plant accident in Tateyama Bay - Gamma ray measurement of land, sea and air, and observation by discernment of radioactive nuclide
6. Environmental research of Tateyama Bay using foraminifera fossils - Supposition of plate motion in the past and climatic change and comparison of Sagami Bay and Ogasawara Myojin knoll -
7. Approach to space biology by high school student - To compare the difference in feature of microbe on land and microbe in the sea -
8. Relation of survival of reserved cyst of dinoflagellate and water depth