

## **Cruise Information and summary**

- 1-1. Cruise ID: MR12-E02 Leg1
- 1-2. Name of vessel: R. V. Mirai
- 1-3. Chief scientist: Takafumi Kasaya (IFREE/JAMSTEC)
- 1-4. Title of the cruise: Marine Ecosystems Investigation, Impact by the mega-earthquake (the 2011 Earthquake of the Pacific coast of Tōhoku) and Tsunami: For Recover and Rebuild of Sanriku Fisheries Activities
- 1-5. Cruise period: 6 Mar. 2012 – 15 Mar. 2012
- 1-6. Ports of call: Yokohama port – Hachinohe port
- 1-7. Research area: Off-Sanriku area
- 1-8. Research map: Fig. 1
- 1-9. Cruise summary

The purpose of this cruise is to understand impact to marine ecosystems by the 2011 Earthquake of the Pacific coast of Tōhoku) and Tsunami, and to contribute by marine science aspects for recover and rebuild of Sanriku fisheries activities. Target areas are sea bottom layers off Sanriku. This cruise is conducted under the TEAMS project, namely Tohoku Ecosystem Array of Marine Sciences. Detail investigation subjects are topographic surveys, mapping of scattered debris, distribution patterns and diversity of benthic organisms, seawater and sediments chemical and sediments components. Based on these data and samples, we will construct habitat map for ecosystem management in Sanriku areas.

In this 1st leg, we obtained acoustic data to fully understand the recent bathymetry, seafloor condition and sub-bottom structure. We also tried out the high accuracy bathymetric survey for correcting the marine earthquake debris using a deep-tow system.

*MR12-E02 Leg 1, Ship Track*

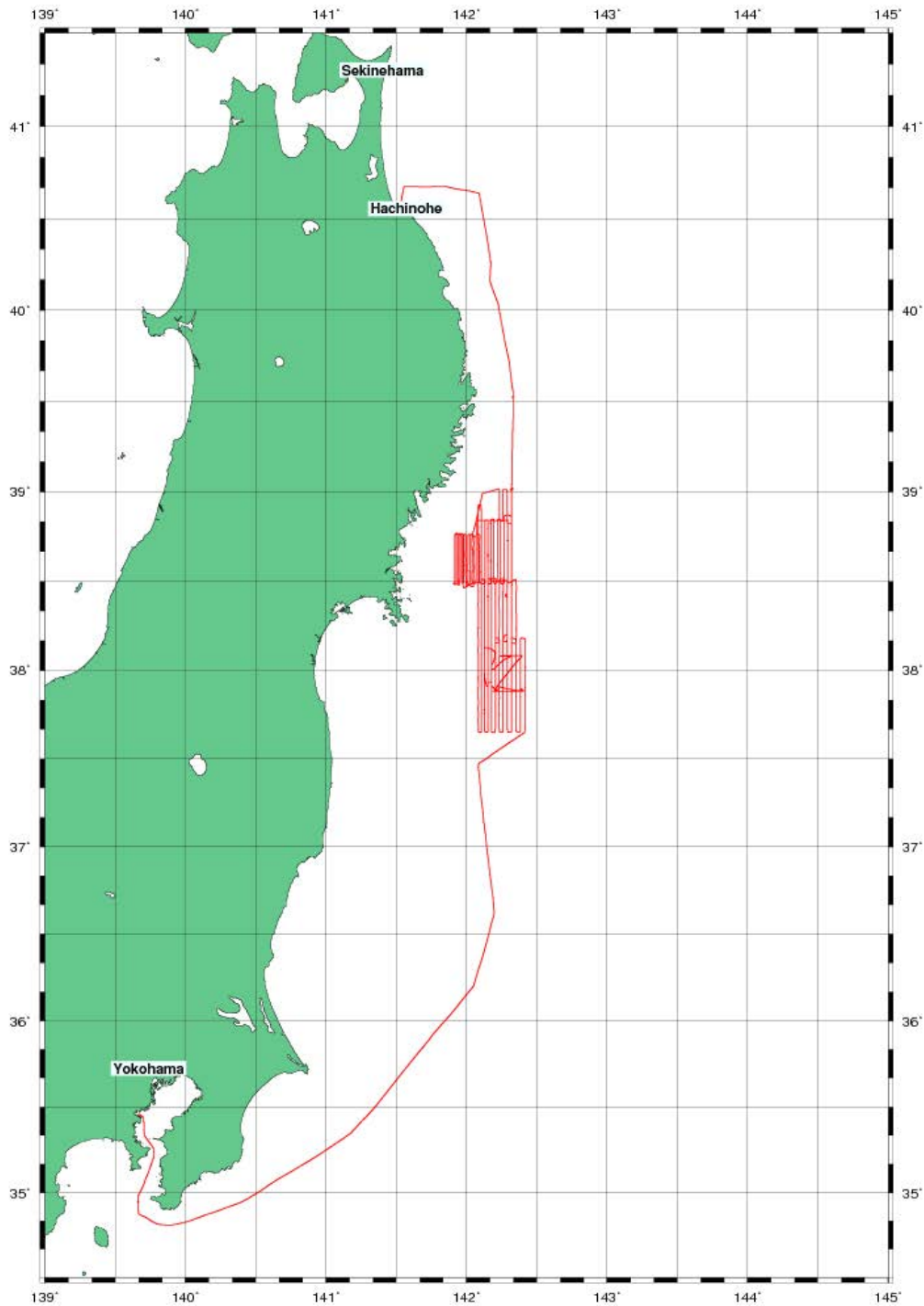


Fig. 1 Ship track of the MR12-E01 Leg1 cruise.