



International Workshop on Arctic Ocean Observation:
Future Collaboration by Research Vessels and Icebreakers
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Shipping Operation Session

Sharing Experiences and Developing Future Collaboration in Polar Ship Operations

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Abstract

1. Presentation of Polar Training in Japan

Professor Mantani's presentation on Polar Training in Japan and the introduction of related issues.

2. Discussion

From the perspective of ship operations, the Arctic region is an exceptionally unique maritime area characterized by extreme weather conditions (such as cold climates and strong winds), the presence of ice, and limited access due to remote areas, which give rise to numerous safety concerns. However, due to the limited access to operation knowledge in the Arctic region, it becomes crucial to facilitate information exchange and collaboration among operators of research vessels in the Arctic. Experienced captains and MOL, the expected operator of JAMSTEC's new Arctic research vessel, will engage in discussions on the following four topics to exchange opinions and knowledge:

- 1) Polar navigation (System/Information/Equipment)
- 2) Emergency Response in Ice (Transporting a sick or injured person)
- 3) Cooperation with observation work in Ice (CTD deployment, Dredge, etc.)
- 4) Near-Miss or Accident (Sharing lessons learned)

3. Outcome

- 1) Through Professor Mantani's presentation and the discussions among experienced operators, the aim is to identify common critical aspects such as navigation in the Arctic region.
- 2) Building on the discussions in this event, the goal is to strengthen future collaboration with various national agencies in preparation for the next international workshop.