

## **KOPRI Biological Oceanography Activities in the Western Arctic Ocean**

**Dr Jee-Hoon Kim**

### **Abstract**

This seminar will provide an overview of biological oceanography research conducted by the Korea Polar Research Institute (KOPRI) in the western Arctic Ocean, with a particular focus on our recent research activities and field observations. I will introduce the major biological oceanography research programs conducted during the 2026 Arctic expedition, including the research activities and observations carried out during the cruise in August 2026.

KOPRI, together with researchers from Korean universities and international partner institutions, conducts Arctic research across eight major research areas. Within KOPRI's biological oceanography research program, my research focuses on zooplankton, benthic organisms, and fishery resources. Korea is also a Contracting Party to the Central Arctic Ocean Fisheries Agreement (CAOFA) and participates in international collaborative research under the Joint Program of Scientific Research and Monitoring (JPSRM). In this context, we conduct research and monitoring on Arctic fishery resources and their associated prey organisms. I will introduce these research activities and highlight some of the fishery resources and other marine organisms collected during the expedition.

Finally, I will present our field activities, recent research outcomes, and future research plans for biological oceanography and marine ecosystem research in the western Arctic Ocean.

### **Short Bio**

**Jee-Hoon Kim** is a Senior Research Scientist at the Korea Polar Research Institute (KOPRI), South Korea. He is responsible for research on Arctic marine animals, with a particular focus on marine zooplankton, benthic organisms, and fishery resources in the Pacific Arctic Ocean and High Seas. His research integrates long-term field observations, eDNA, and imaging-based approaches to investigate changes in zooplankton communities and their roles in Arctic marine ecosystems. He also serves as a member of the Korean government delegation at meetings of the CAOFA Scientific Coordination Group (SCG) and the Conference of the Parties (COP).