OSID & IESS

Thu. Nov 12, 2026 4:00 PM - 5:30 PM JST | Thu. Nov 12, 2026 7:00 AM - 8:30 AM UTC | Room D (Icho) (3F)

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Chair: Bruno Buongiorno Nardelli, Akira Nagano

4:15 PM - 4:30 PM JST | 7:15 AM - 7:30 AM UTC

[OECfne_2-02] Collection and Use of Fishing Vessel Data: Practical Use Cases in Japan

*Takuto Hazama (1. FURUNO ELECTRIC CO., LTD. (Japan))

In Japan and many other countries, the fisheries industry is placing greater importance on improving daily work through data use. This need is increasing because the industry faces issues such as changes in fishing grounds, labor shortages, and the need for better resource management. FURUNO is promoting the use of fishing vessel data to support sustainable fisheries, the growth of the fisheries industry, and the efficient use of fishery resources.
The aim of this presentation is to show how fishing vessel data can be collected and used in practical fisheries. It introduces “Ryoshi Diary,” a system that supports the process from data collection to the use of analysis results. The word “Ryoshi” means “fisher” in Japanese. The data include vessel position, time, fishing operation records, and data from marine electronic devices. The system collects data from devices on fishing vessels, stores the data in cloud services, and presents the results through web services. This allows users to check past results and compare fishing activities over time.
This presentation also describes two use cases in Japan. The first is a local project in which data from many fishing vessels were collected and used as regional fishing vessel data. Collecting data from many vessels over a short period made it possible to cover a wide range of fishing grounds. This result suggests that regional fishing vessel data may help users understand long-term trends in fishing grounds. The second is a single-vessel project using one bottom trawler, in which one fisher collected and analyzed fishing ground data for three years. In this use case, the data made it possible to study changes in catch composition and consider possible reasons for these changes. These use cases suggest that continuous collection and use of fishing vessel data can turn daily fishing activities into useful knowledge for sustainable fisheries.

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