

NPAFC
Doc. 1741
Rev.

**Proposed Cruise Plans of Japanese Research Vessels for Salmon
in the North Pacific Ocean in 2018**

by

Kengo Suzuki, Shunpei Sato, Shigehiko Urawa, and Masa-aki Fukuwaka

Hokkaido National Fisheries Research Institute,
Japan Fisheries Research and Education Agency,
2-2 Nakanoshima, Toyohira-ku, Sapporo 062-0922, Japan

Submitted to the

NORTH PACIFIC ANADROMOUS FISH COMMISSION

by

Japan

March 2018

THIS PAPER MAY BE CITED IN THE FOLLOWING MANNER:

Suzuki, K., S. Sato, S. Urawa, and M. Fukuwaka. 2018. Proposed cruise plans of Japanese research vessels for salmon in the North Pacific Ocean in 2018. NPAFC Doc. 1741. 4 pp. Hokkaido National Fisheries Research Institute, Japan Fisheries Research and Education Agency (Available at <http://www.npafc.org>).

Proposed Cruise Plans of Japanese Research Vessels for Salmon in the North Pacific Ocean in 2018

Abstract: Two Japanese research vessels are scheduled to conduct high-seas salmon surveys. The FRA research vessel *Hokko maru* will carry out a summer monitoring survey for salmon and their habitat in the central Bering Sea. The Hokkaido University training vessel *Oshoro maru* will accomplish two salmon researches in the western North Pacific Ocean in middle May, and the North Pacific Ocean and the Bering Sea between late June and late July 2018.

Keywords: Japanese cruise plan, high-seas salmon, monitoring survey, Bering Sea, North Pacific Ocean, 2018

Two Japanese research vessels (Appendix Table) are scheduled to conduct scientific salmon research in the North Pacific Ocean and the Bering Sea in 2018 (Table 1).

- (1) The *Hokko maru* will carry out salmon research with a surface trawl and hook-and-line to obtain information on the distribution, abundance, and other biological characteristic of Pacific salmon in the Bering Sea from middle July to early August (Fig. 1).
- (2) The *Oshoro maru* will carry out salmon research with gillnets, longline, and hook-and-line to obtain biological data on the distribution and ecology of salmon and other pelagic fishes in the western North Pacific Ocean in May (Fig. 2). In case of gillnet operation, gillnets less than 2.5 km in length at sea will be used.
- (3) The *Oshoro maru* will conduct salmon research with longline and hook-and-line to obtain biological data on the distribution and ecology of salmon and other pelagic fishes in the western North Pacific Ocean and the Bering Sea including the southern Chukchi Sea between middle June and late July.

Table 1. Proposed cruise plan of Japanese research vessels for salmon in the North Pacific Ocean and Bering Sea in 2018.

Vessel	Period	Survey area	Research objects	Gears equipped
<i>Hokko maru</i>	July 18–August 10	Bering Sea	Salmon abundance and distribution	Surface/mid-water trawl, hook-and-line
<i>Oshoro maru</i>	May 11–May 22	North Pacific Ocean	Oceanographic observation and fish community survey	Gillnets, longline, hook-and-line, squid jigging
<i>Oshoro maru</i>	June 14–July 31	North Pacific Ocean, Bering Sea including the southern Chukchi Sea	Oceanographic observation and fish community survey	Longline, hook-and-line, small sled type beam trawl, kite trawl

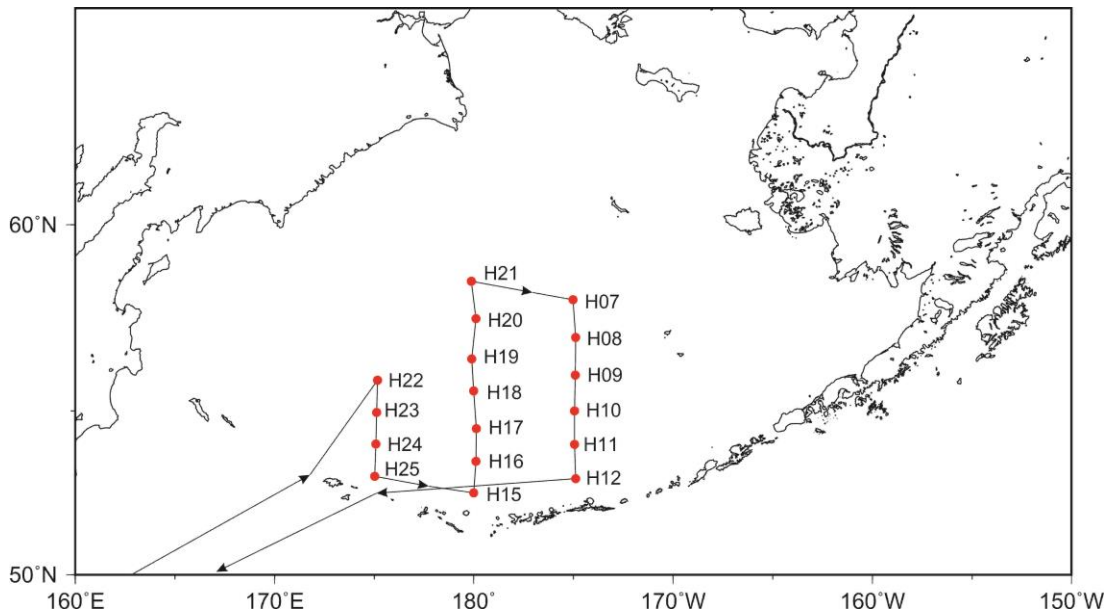


Fig. 1. A map showing 17 sampling stations in the Bering Sea by the R/V *Hokko maru*, July 18 (Kushiro) – August 10 (Kushiro), 2018.

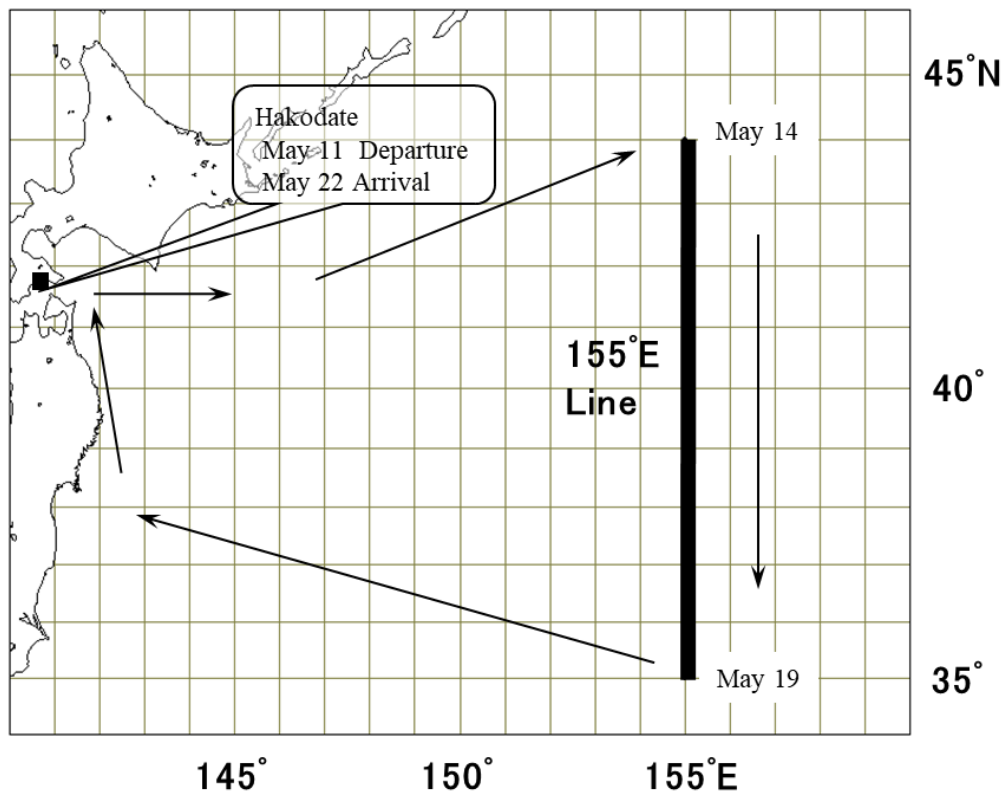


Fig. 2. Research area of the T/V *Oshoro maru* in the western North Pacific Ocean, May 11 (Hakodate) – May 22 (Hakodate), 2018.

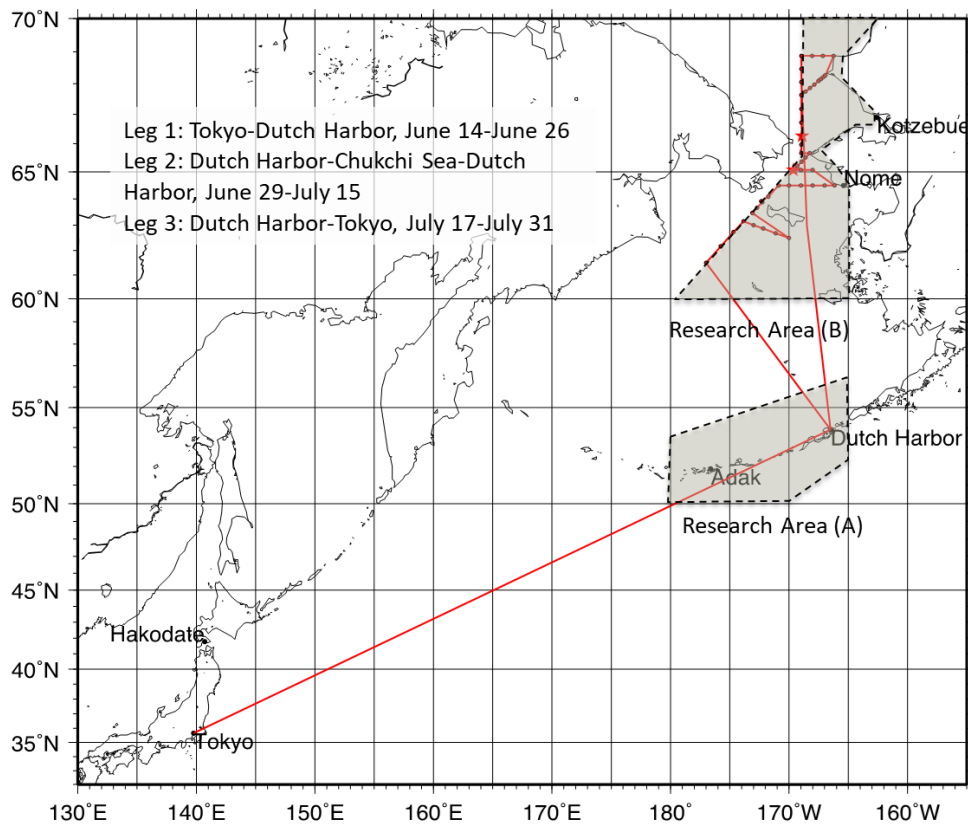


Fig. 3. Research areas of the T/V *Oshoro maru* in the North Pacific Ocean and the Bering Sea including the southern Chukchi Sea, June 14 (Tokyo) – July 31 (Tokyo), 2018.

Appendix Table. List of Japanese research vessels scheduled for high-seas salmon surveys in 2018.

Party	Vessel name	Call sign	Gears equipped	Other available information
Hokkaido National Fisheries Research Institute, FRA	<i>Hokko maru</i>	JEBB	Surface /mid-water trawl, hook-and-line	INMARSAT telephone: +872-7634-443-93, Length: 64.73 m, Gross tonnage: 902
Hokkaido University	<i>Oshoro maru</i>	7JRM	Small sled type beam trawl, kite trawl, gillnet, longline, hook-and-line, squid jigging	VSAT telephone: 0345406625, Length: 78.27 m, Gross tonnage: 1,998