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North Pacific Ocean in 2019**

by

Shunpei Sato, Kengo Suzuki, and Shigehiko Urawa

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

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Shunpei Sato, Kengo Suzuki, and Shigehiko Urawa

Hokkaido National Fisheries Research Institute, Japan Fisheries Research and Education

Agency

2-2 Nakanoshima, Toyohira-ku, Sapporo 062-0922, Japan

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Japanese research vessels conducted scientific fishing operations to assess stock status of Pacific saury, and other pelagic fishes and squids using surface and midwater trawls, and drift gillnets in the western and central North Pacific Ocean (Japan Fisheries Research and Education Agency 2019). A total of 225 salmon including 127 chum, 91 pink, three Chinook salmon, two coho, and two steelhead trout was incidentally caught during the research surveys between May and October 2019 (Table 1).

Reference

Japan Fisheries Research and Education Agency. 2019. Cruise plans of Japanese research vessels involving incidental takes of anadromous fishes in the North Pacific Ocean in 2019. NPAFC Doc. 1810. 3 pp. Japan Fisheries Research and Education Agency, Yokohama, Japan (Available at <https://npafc.org>).

Table 1. Number of incidental catches of anadromous fish during research surveys for pelagic fishes onboard Japanese research vessels in the North Pacific Ocean in 2019. CH, chum salmon; PS, pink salmon; SS, sockeye salmon; CO, coho salmon; CN, Chinook salmon; ST, steelhead trout.

Vessel	Cruise period	Survey area (excluding Russian 200 NMZ)	Research objects	Gear	Sampling period	Number of catches						
						CH	PS	SS	CO	CN	ST	Total
<i>Hokushin maru</i>	May 13 (Kushiro) –May 20 (Kushiro)	Western North Pacific (38°–43°N, 142°–148°E)	Abundance of chub mackerel, blue mackerel, Japanese sardine, and Japanese anchovy	Surface trawl	May 13 –May 17	1	25	0	0	0	0	26
<i>Hokushin maru</i>	June 19 (Kushiro) –June 28 (Kushiro)	Western North Pacific (38°–43°N, 142°–148°E)	Abundance of chub mackerel, blue mackerel, Japanese sardine, and Japanese anchovy	Driftnets	June 19 –June 28	0	0	0	0	0	0	0
<i>Hokushin maru</i>	August 28 (Kushiro) –September 6 (Kushiro)	Western North Pacific (38°–43°N, 142°–148°E)	Abundance of chub mackerel, blue mackerel, Japanese sardine, and Japanese anchovy	Driftnets	August 28 –September 6	0	0	0	0	0	0	0
<i>Hokushin maru</i>	October 16 (Kushiro) –October 28 (Kushiro)	Western North Pacific (38°–43°N, 142°–148°E)	Abundance of Pacific saury	Surface trawl	October 16 –October 22	0	0	0	0	0	0	0
<i>Hokuho maru</i>	June 4 (Hakodate) –July 21 (Hakodate)	Central and western North Pacific (30°–50°N, 140°E–160°W)	Abundance of Pacific saury	Surface trawl	June 9 –July 10	27	3	0	1	1	1	33
<i>Hokko maru</i>	June 14 (Kushiro) –July 11 (Kushiro)	Western North Pacific (36°–47°N, 142°–165°E)	Abundance of Pacific saury	Surface trawl	June 18 –July 9	99	63	0	1	2	0	165
<i>Kaiun maru</i>	June 21 (Hachinohe) –August 1 (Hachinohe)	Central and western North Pacific (30°–46°N, 144°E–176°E)	Stock assessment of neon flying squid	Driftnets	June 27 –July 31	0	0	0	0	0	1	1
<i>Hokuho maru</i>	September 7 (Hakodate) –October 8 (Hakodate)	Western North Pacific (36°–50°N, 140°–175°E)	Abundance of small pelagic fishes	Mid-water trawl	September 14 –October 3	0	0	0	0	0	0	0