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PROPOSED CRUISE PLANS OF JAPANESE RESEARCH VESSELS FOR
SALMON IN THE NORTH PACIFIC OCEAN IN 1993

BY

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Seven Japanese salmon research vessels are tentatively scheduled to conduct the following scientific research in the Sea of Okhotsk, western North Pacific, Bering Sea, and Gulf of Alaska in 1993 (Table 1). In case of gillnet operation, only 50 tans of gillnets, about 2.5km in length, will be used.

1) The Kaiyo maru will conduct research with surface trawl to obtain information on the distribution and ecology of Japanese origin chum salmon juveniles in the Sea of Okhotsk and western North Pacific from mid-October to late November (Fig. 1).

2) The Hokko maru will conduct research with gillnets and longlines to obtain information on the distribution and carrying capacity of Asian sockeye, chum, and pink salmon at the stations along 165°E longitude from early July to mid-July (Fig. 2).

3) The Hokuho maru will conduct research with taggings to obtain information on the distribution of Asian chum salmon in the area of western North Pacific and around the Kuril Islands from early September to late October (Fig. 3).

4) The Wakashio maru will conduct research with small purse seine, longlines, and small gillnets to obtain data on the distribution and ecology of Japanese origin chum salmon and Sakhalin origin pink salmon juveniles around the Kuril Islands and coastal waters off southeast Sakhalin from mid-August to mid-September (Fig. 4).

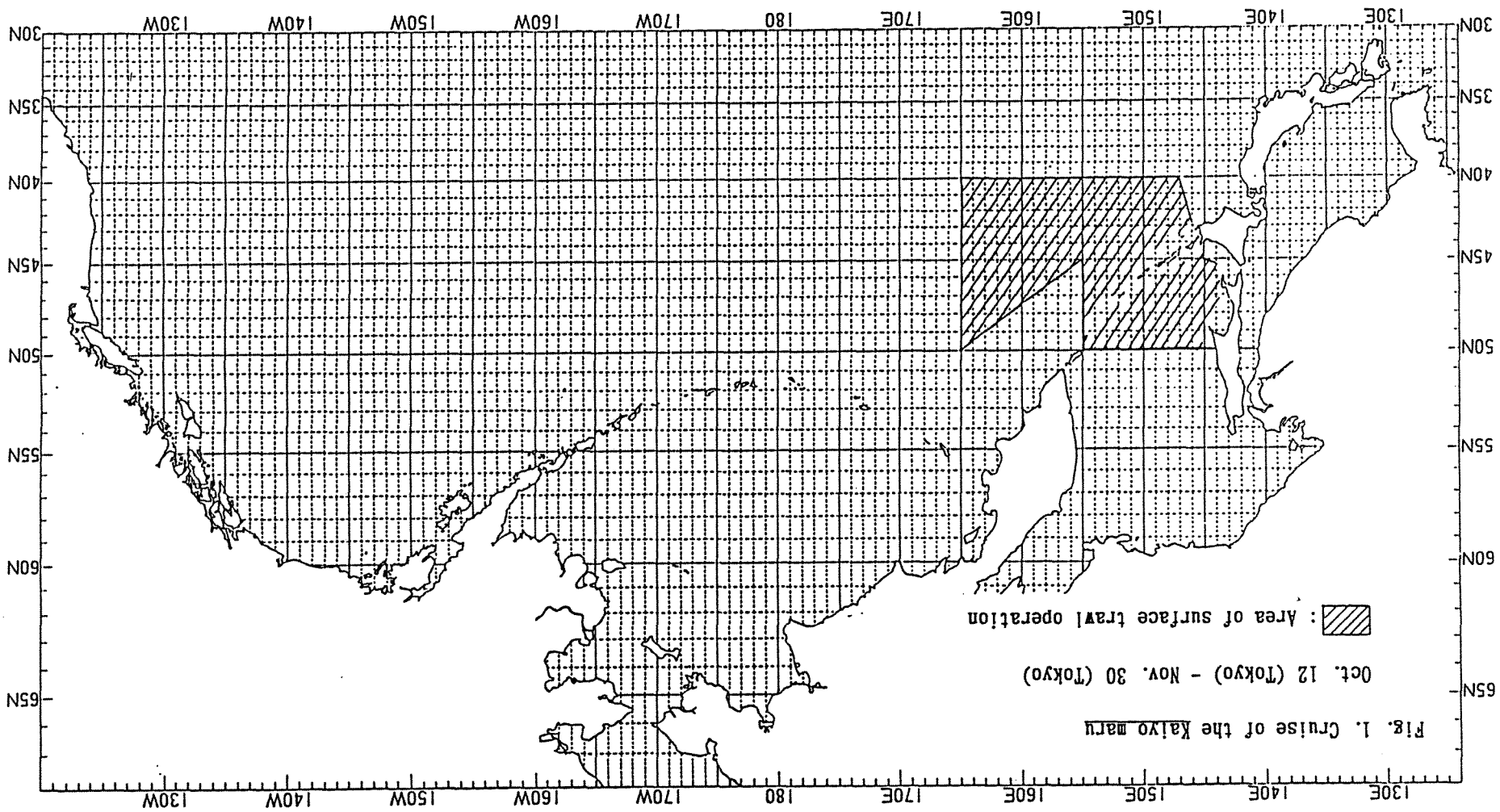
5) The Wakatake maru will conduct research with gillnets, longlines, ORI net, and small trawl to obtain data on the distribution and carrying capacity of salmon along 179°30'W longitude in the North Pacific and Bering Sea from early June to late July (Fig. 5).

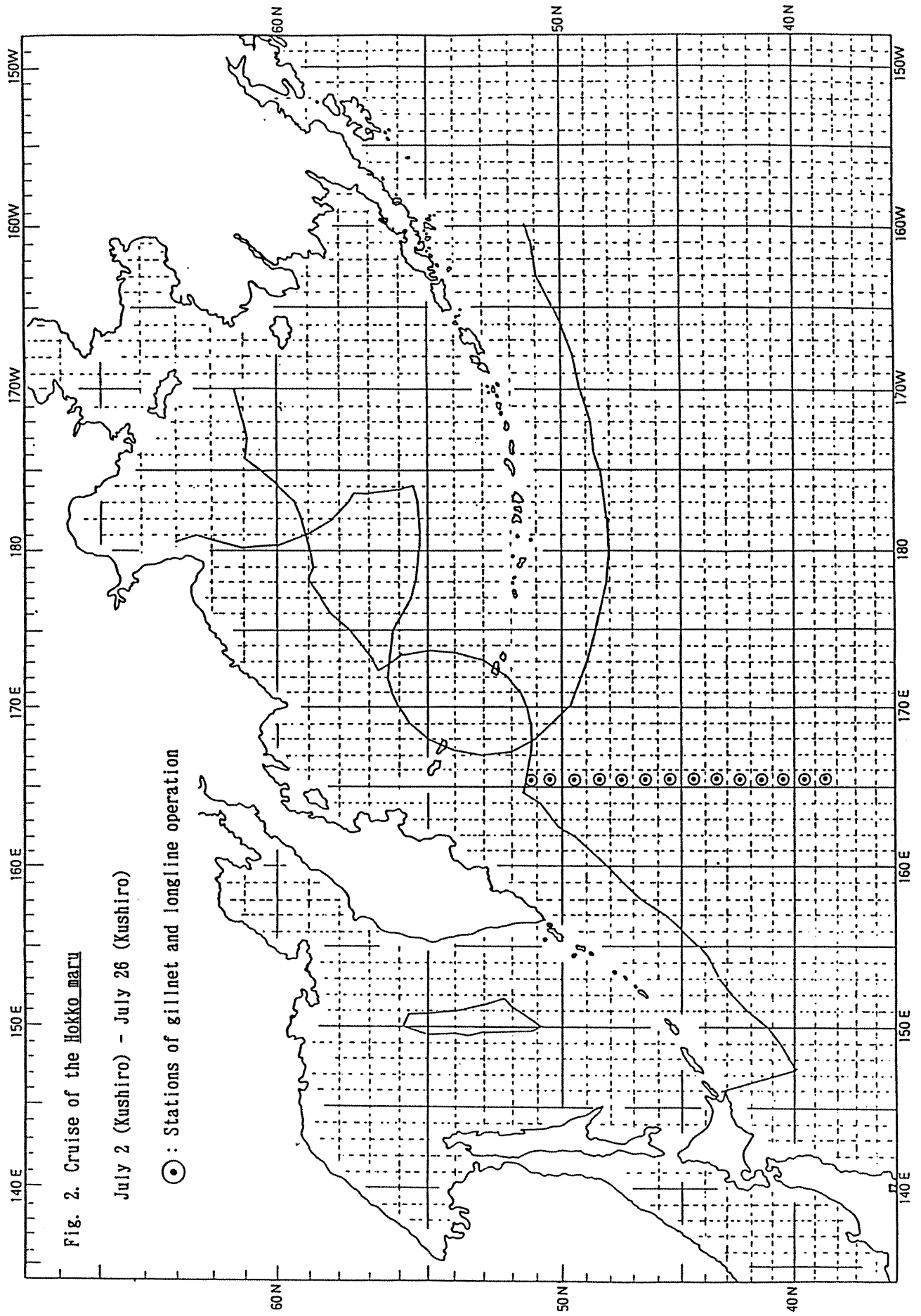
6) The Oshoro maru will conduct research with gillnets, longlines, and small trawl to obtain data on the distribution and ecology of salmon and other pelagic fishes in the North Pacific, Bering Sea, and Gulf of Alaska from early June to mid-August (Fig. 6).

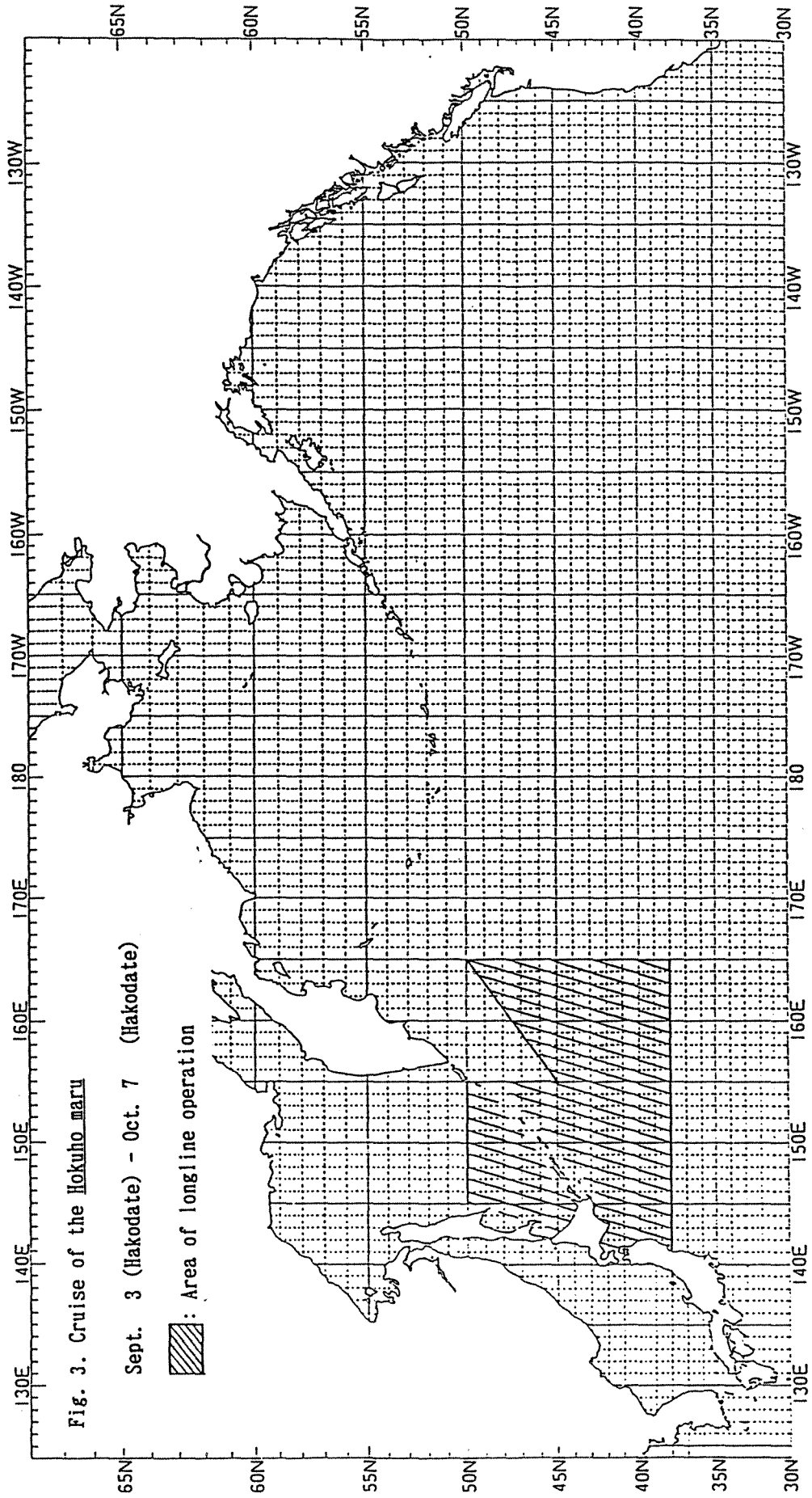
7) The Hokusei maru will conduct three cruises for oceanographic observations and research with gillnets to obtain data on the distribution and ecology of salmon and other pelagic fishes in the western North Pacific Ocean from June to August (Fig. 7).

Table 1. Proposed cruise plan of Japanese research vessels for salmon in the North Pacific in 1993.

Vessel	Period	Survey area	Research objects	Gear equipped	Figure
<u>Kaiyo maru</u>	Oct. 12 - Nov. 30	Western North Pacific Sea of Okhotsk	Migrating juveniles	Surface trawl	1
<u>Hokko maru</u>	July 2 - July 26	Western North Pacific	Carrying capacity	Gillnets and longlines	2
<u>Hokuho maru</u>	Sept. 3 - Oct. 7	Around Kuril Islands Western North Pacific Sea of Okhotsk	Migrating adults	Longlines	3
<u>Wakashio maru</u>	Aug. 16 - Sept. 14	Around Kuril Islands Western North Pacific Sea of Okhotsk	Migrating juveniles	Gillnets and longlines	4
<u>Wakatake maru</u>	June 10 - July 26	Central North Pacific Bering Sea	Carrying capacity	Gillnets, longlines, ORI net and trawl net	5
<u>Oshoro maru</u>	June 3 - Aug. 19	Central North Pacific Bering Sea Gulf of Alaska	Fish community	Gillnets, longlines and trawl net	6
<u>Hokusei maru</u>	June 1 - June 15	Western North Pacific	Fish community	Gillnets	7
	June 20 - July 5	Western North Pacific	Fish community	Gillnets	7
	July 10 - Aug. 10	Western North Pacific	Fish community	Gillnets	7







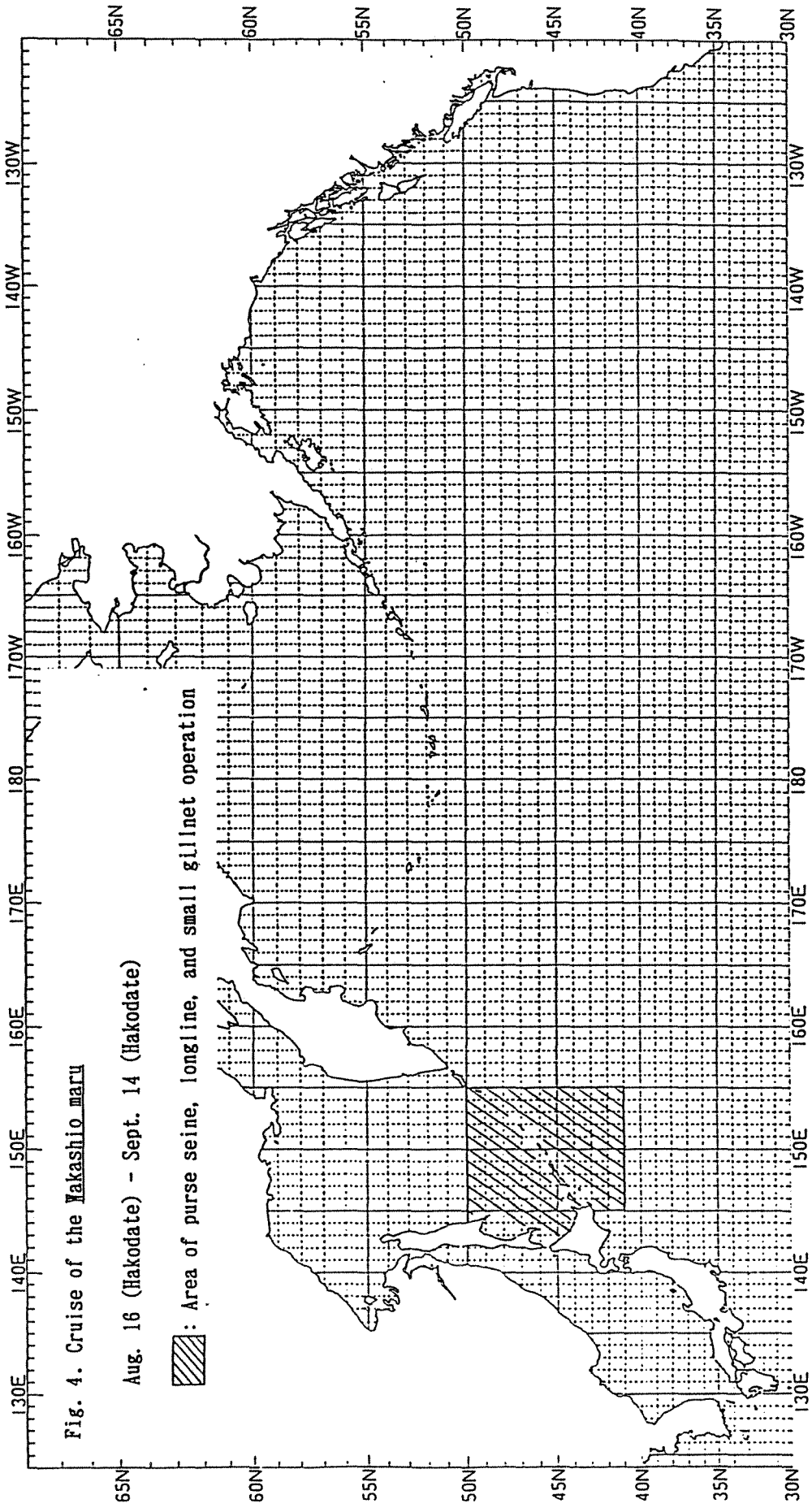


Fig. 4. Cruise of the Yakashio maru

Aug. 16 (Hakodate) - Sept. 14 (Hakodate)

▨ : Area of purse seine, longline, and small gillnet operation

Fig. 5. Cruise of the Yakatake maru

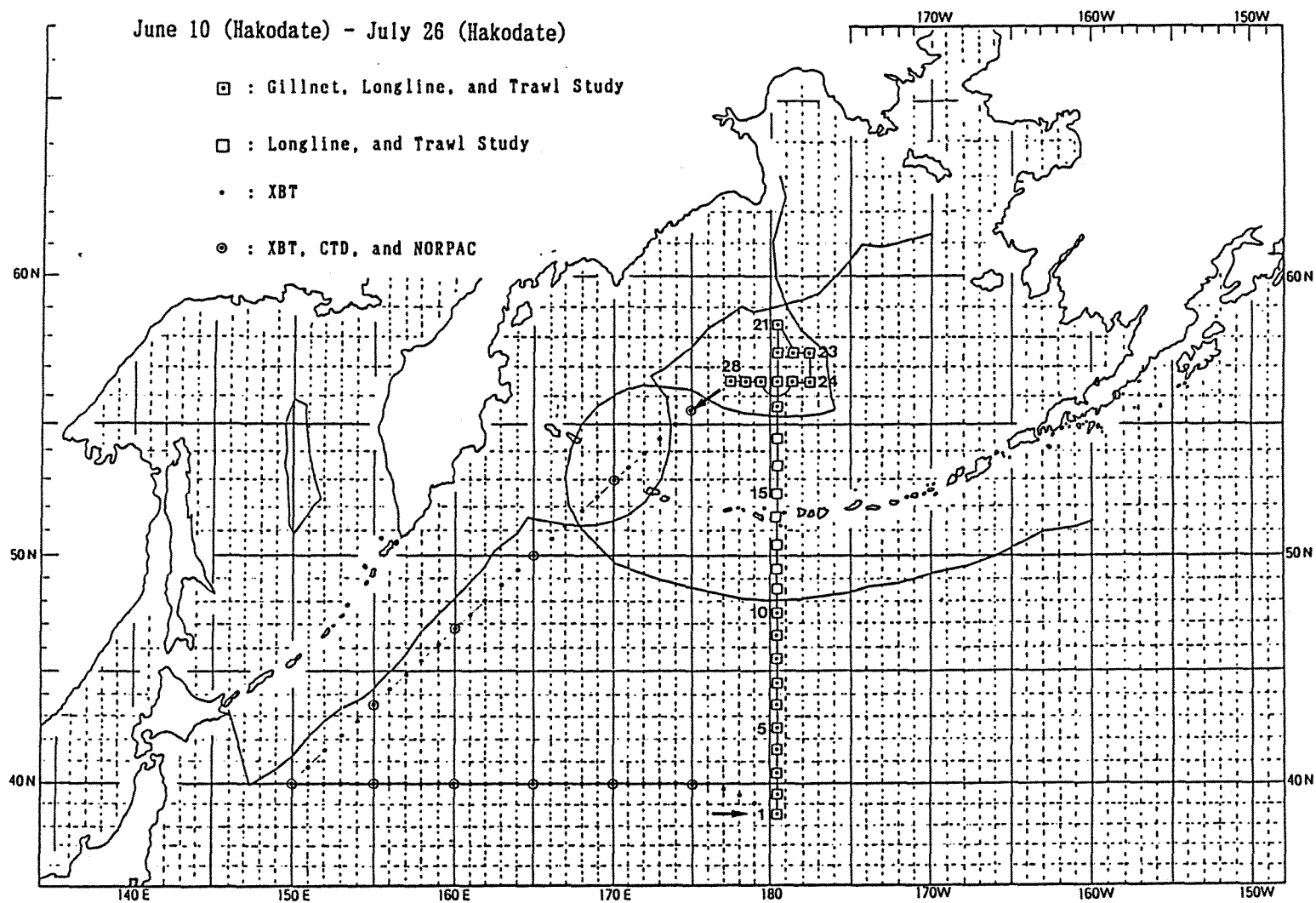


Fig. 6. Cruise of the Oshoro maru

June 3 (Hakodate) - Aug. 13 (Hakodate)

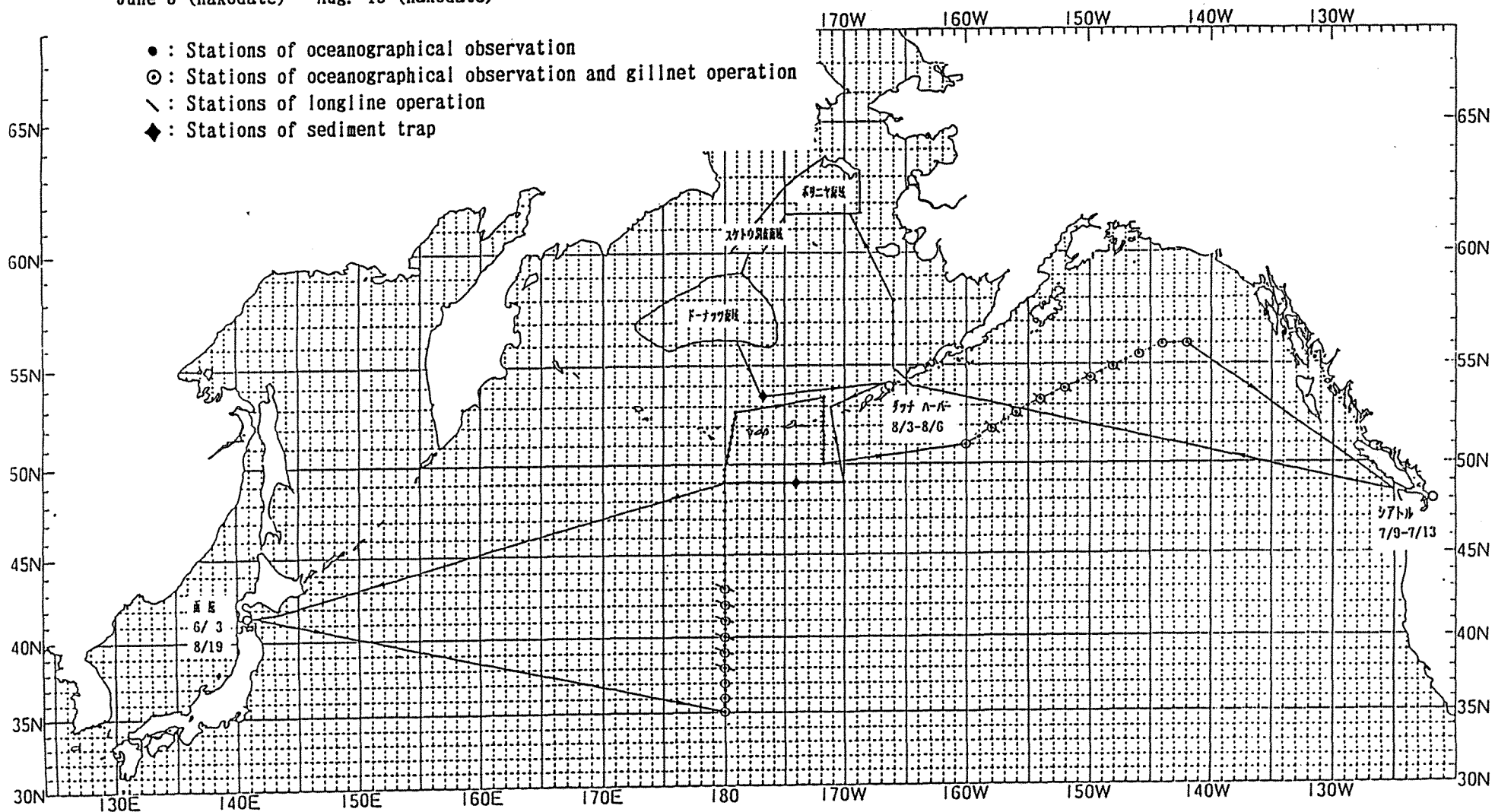


Fig. 7. 1st, 2nd and 3rd cruises of the Hokusei maru

