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PROPOSED CRUISE PLANS OF JAPANESE RESEARCH VESSELS FOR
SALMON IN THE NORTH PACIFIC OCEAN IN 1994

by

Fisheries Agency of Japan

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Six 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 1994 (Table 1). In case of gillnet operation, gillnets less than 2.5km in length at sea will be used.

1) The *Hokko maru* will conduct research with gillnets and to obtain information on the distribution and carrying capacity of Asian sockeye, chum, and pink salmon at the stations along 165° E longitude in July (Fig. 1).

2) The *Hokuho maru* will also 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. 2).

3) 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. 3).

4) The *Wakatake maru* will conduct research with gillnets, longlines, and ORnet 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. 4).

5) 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. 5).

6) 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. 6).

Table 1. Proposed cruise plan of Japanese research vessels for salmon in the North Pacific in 1994

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

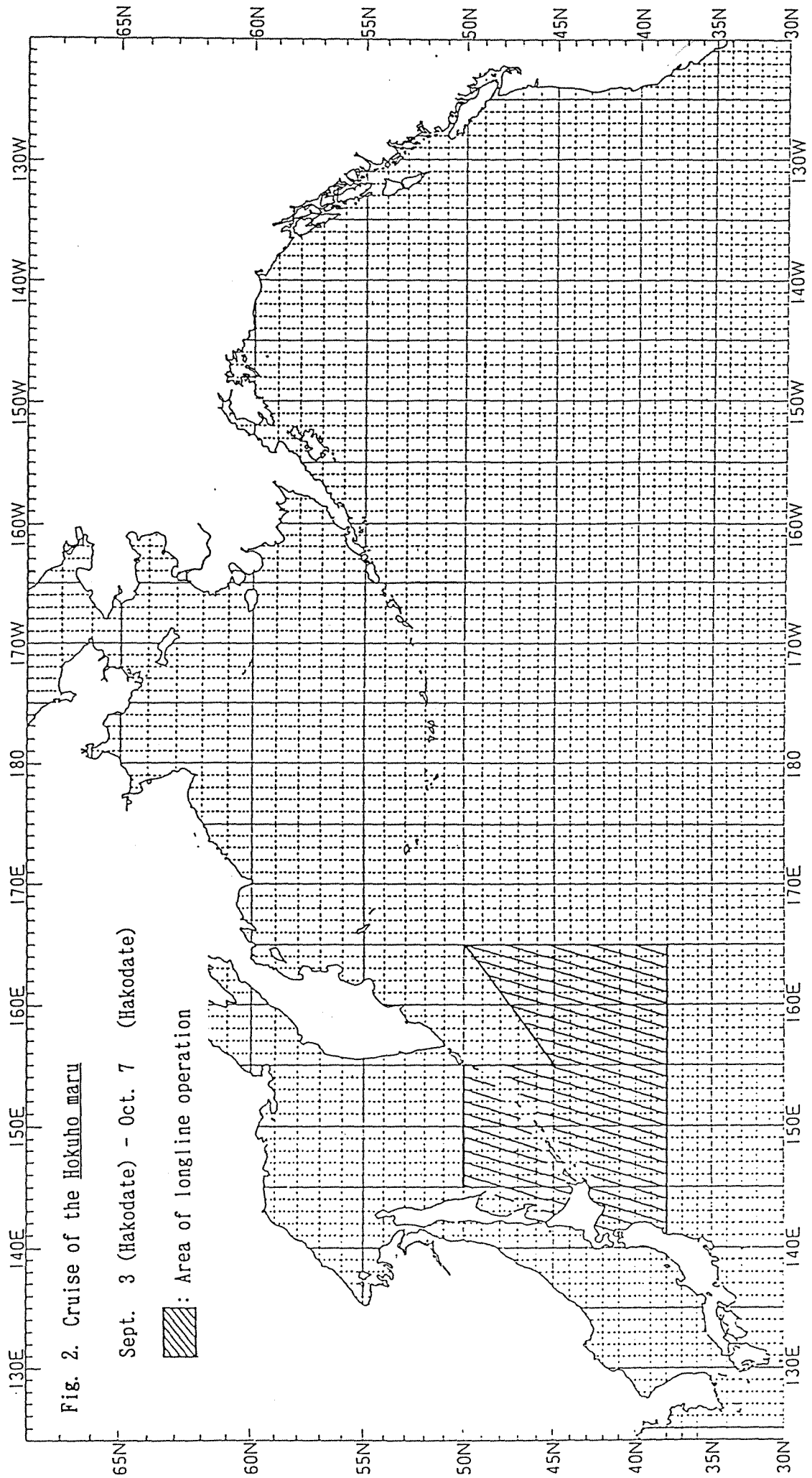



Fig. 2. Cruise of the Hokuho maru
 Sept. 3 (Hakodate) - Oct. 7 (Hakodate)

 : Area of longline operation

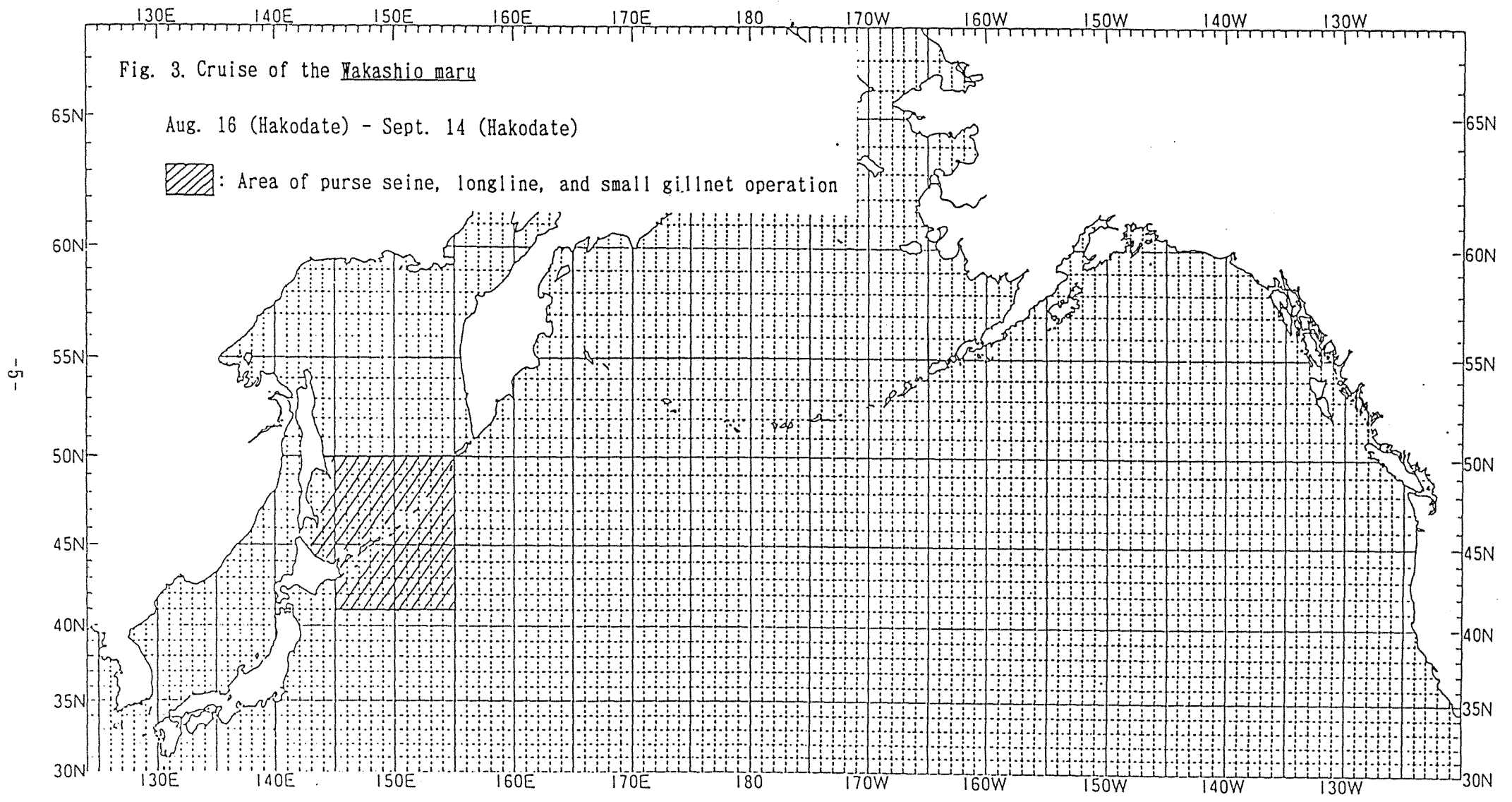


Fig. 4. Cruise of the Wakatake maru

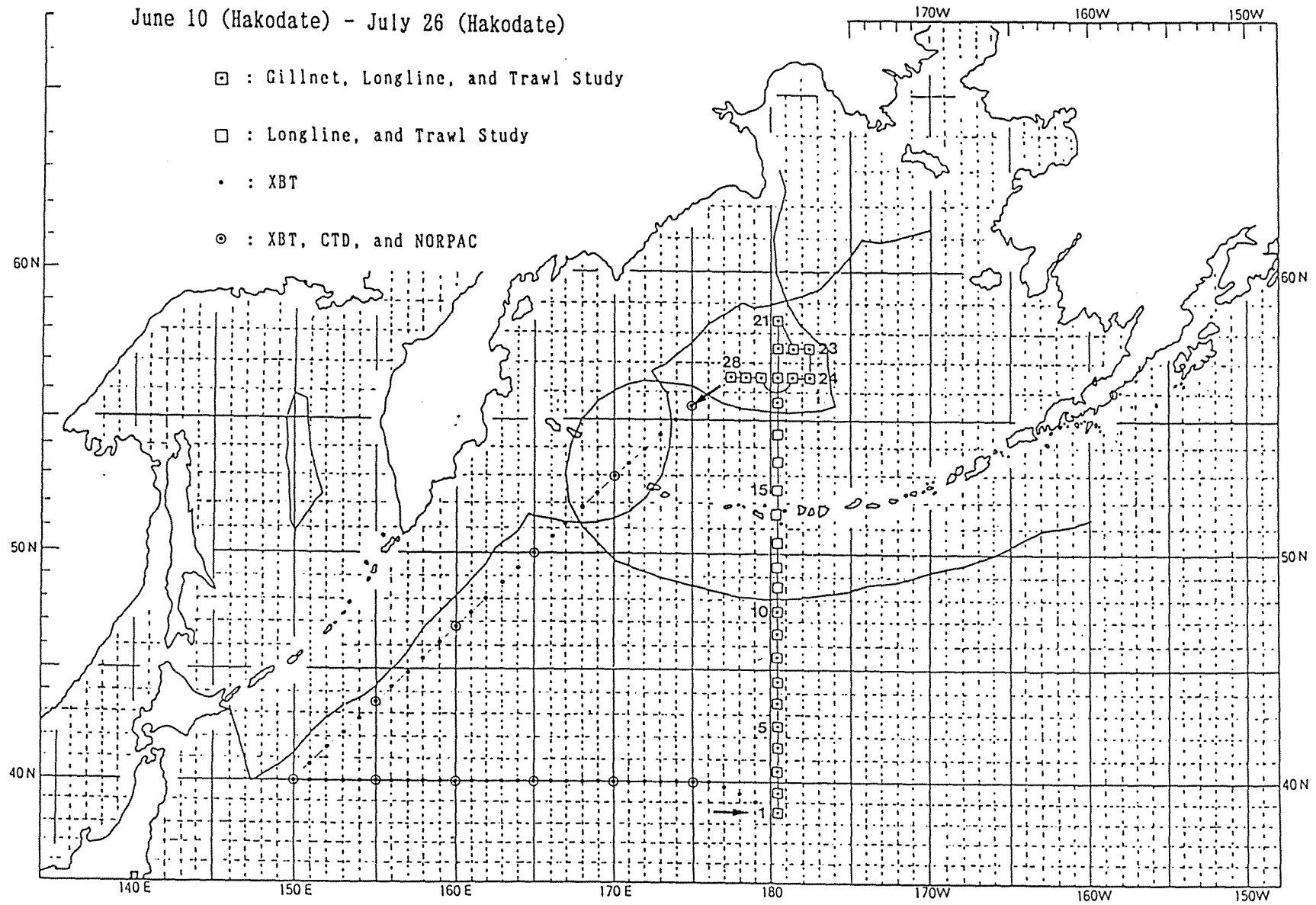


Fig. 5. Cruise of the Oshoro maru

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

- : Stations of oceanographical observation
- ⊙ : Stations of oceanographical observation and gillnet operation
- ∖ : Stations of longline operation
- ◆ : Stations of sediment trap

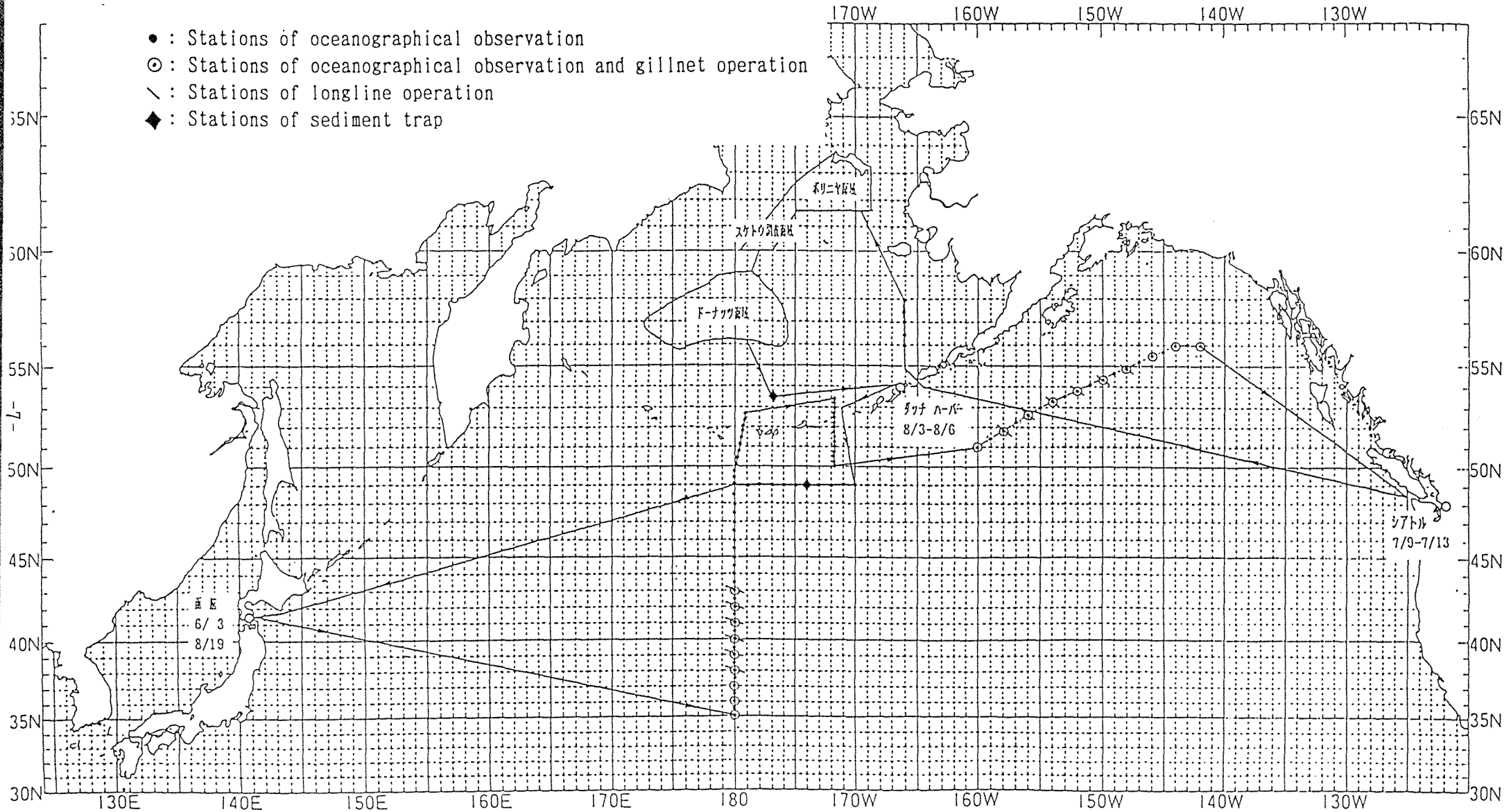


Fig. 6. 1st, 2nd and 3rd cruises of the Hokusei maru

June 1 (Hakodate) - June 15 (Hakodate)
 June 20 (Hakodate) - July 3 (Hakodate)
 July 10 (Hakodate) - Aug. 10 (Hakodate)

- : Stations of oceanographical observation
- : Stations of gillnet operation and oceanographical observation
- : Stations of flowmeter
- ▽▼ : Stations of sediment trap

