

Proposed cruise plans of Japanese research vessels for
salmon and marine mammals in the North Pacific Ocean, 1988

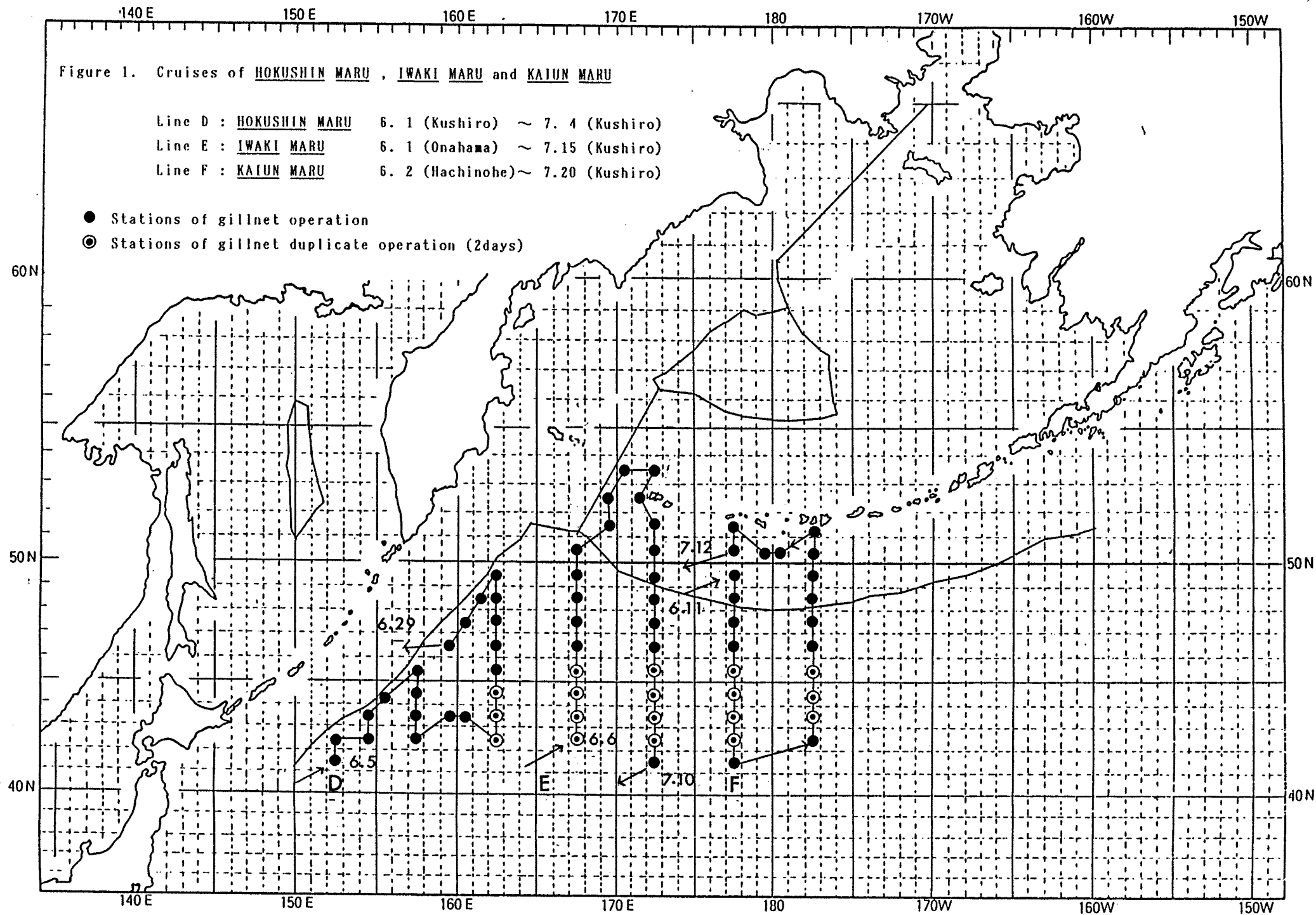
March, 1988

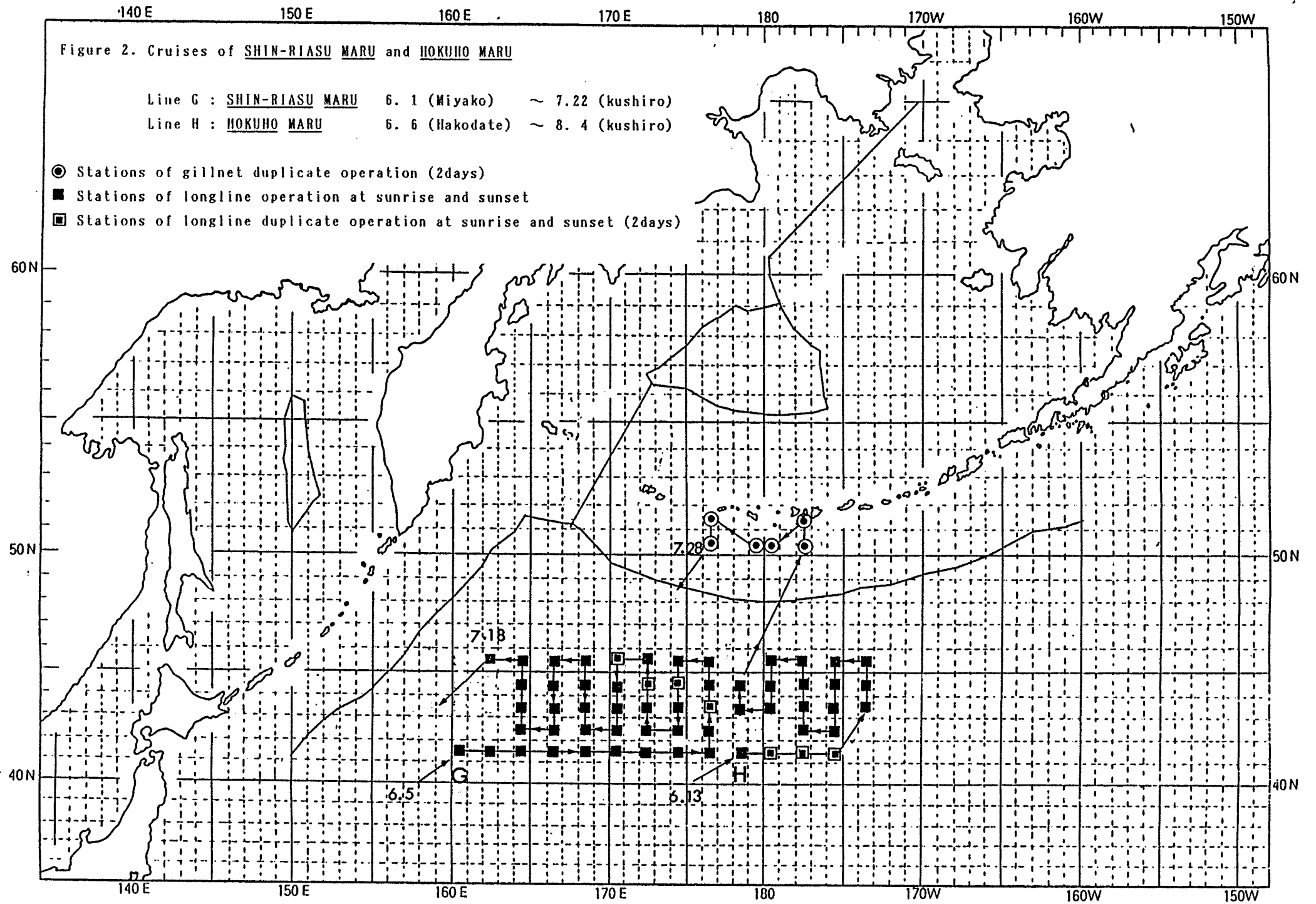
Fisheries Agency of Japan

Proposed cruise plan of Japanese research vessels for salmon and marine mammals in the North Pacific Ocean in 1988

Vessel	Cruise	Period	Port for departure and entry	Gear equipped	Attached figure	Main objectives
<u>HOKUSHIN MARU</u>	One cruise	June 1 - July 4	Kushiro - Kushiro	Gillnets	1	Distribution and abundance of salmon
<u>IWAKI MARU</u>	One cruise	June 1 - July 15	Onahama - Kushiro	Gillnets	1	Distribution and abundance of salmon
<u>KAIUN MARU</u>	One cruise	June 2 - July 20	Hachinohe - Kushiro	Gillnets	1	Distribution and abundance of salmon
<u>SHIN RIASU MARU</u>	One cruise	June 1 - July 22	Miyako - Kushiro	Longlines	2	Tagging of salmon
<u>HOKUHO MARU</u>	One cruise	June 6 - August 4	Hakodate - Kushiro	Gillnets & Longlines	2	Abundance and tagging of salmon
<u>KANKI MARU No.58</u>	One cruise	June 3 - July 7	Yamada - Kushiro	Longlines	3	Tagging of salmon
<u>ETSUZAN MARU</u>	One cruise	June 1 - July 22	Misaki - Kushiro	Longlines	3	Tagging of salmon
<u>HOKKO MARU</u>	One cruise	June 25 - July 19	Kushiro - Kushiro	Gillnets	4	Japan-U.S.S.R cooperative study
<u>WAKATAKE MARU</u>	One cruise	June 7 - July 28	Hakodate - Hakodate	Gillnets & Longlines	5	Ecology and tagging of salmon
<u>OSHOHO MARU</u>	One cruise	June 6 - August 18	Hakodate - Hakodate	Gillnets & Longlines	6	Distribution of salmon and pelagic fish and tagging of salmon
<u>HOKUSEI MARU</u>	1st cruise	June 1 - June 15	Hakodate - Hakodate	Gillnets	7	Distribution of salmon and pelagic fish
	2nd cruise	June 20 - July 4	Hakodate - Hakodate	Gillnets	7	Distribution of salmon and pelagic fish
	3rd cruise	July 11 - August 11	Hakodate - Hakodate	Gillnets	7	Distribution of salmon and pelagic fish
<u>HOYO MARU No.12</u>	One cruise	Aug. 3 - Sept. 28	Kesenuma - Kesenuma	Harpoon	8	Study for Dall's porpoise

U.S port call: Oshoro Maru : Dutch Harbor June 23 and July 2-5, Ketchikan July 22-27



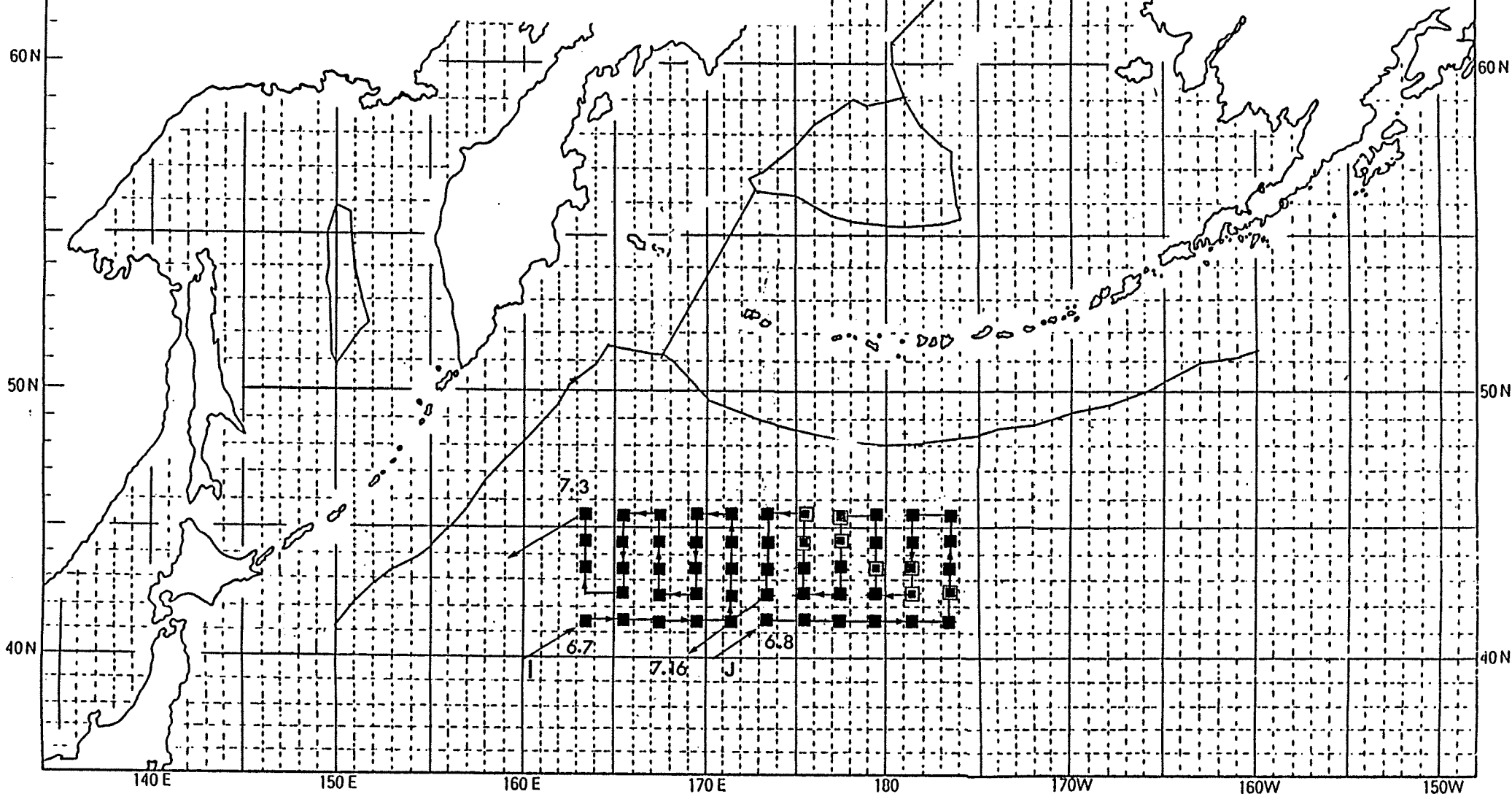


140 E 150 E 160 E 170 E 180 170 W 160 W 150 W

Figure 3. Cruises of KANKI MARU NO.58 and ETSUZAN MARU

Line I : KANKI MARU NO.58 6. 3 (Yamada) ~ 7. 7 (Kushiro)
Line J : ETSUZAN MARU 6. 1 (Misaki) ~ 7.22 (Kushiro)

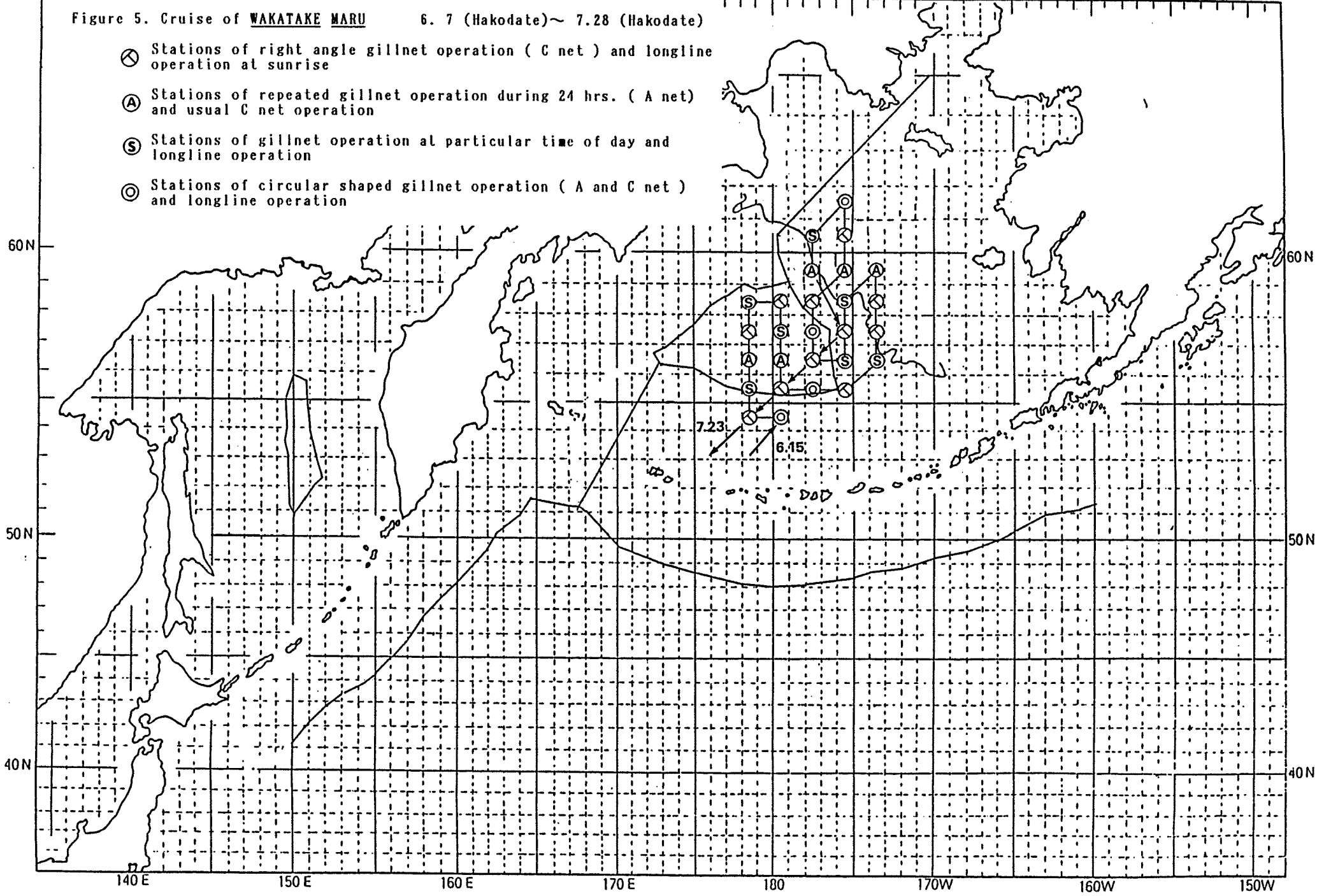
- Stations of longline operation at sunrise and sunset
- ▣ Stations of longline duplicate operation at sunrise and sunset (2days)



140 E 150 E 160 E 170 E 180 170W 160W 150W

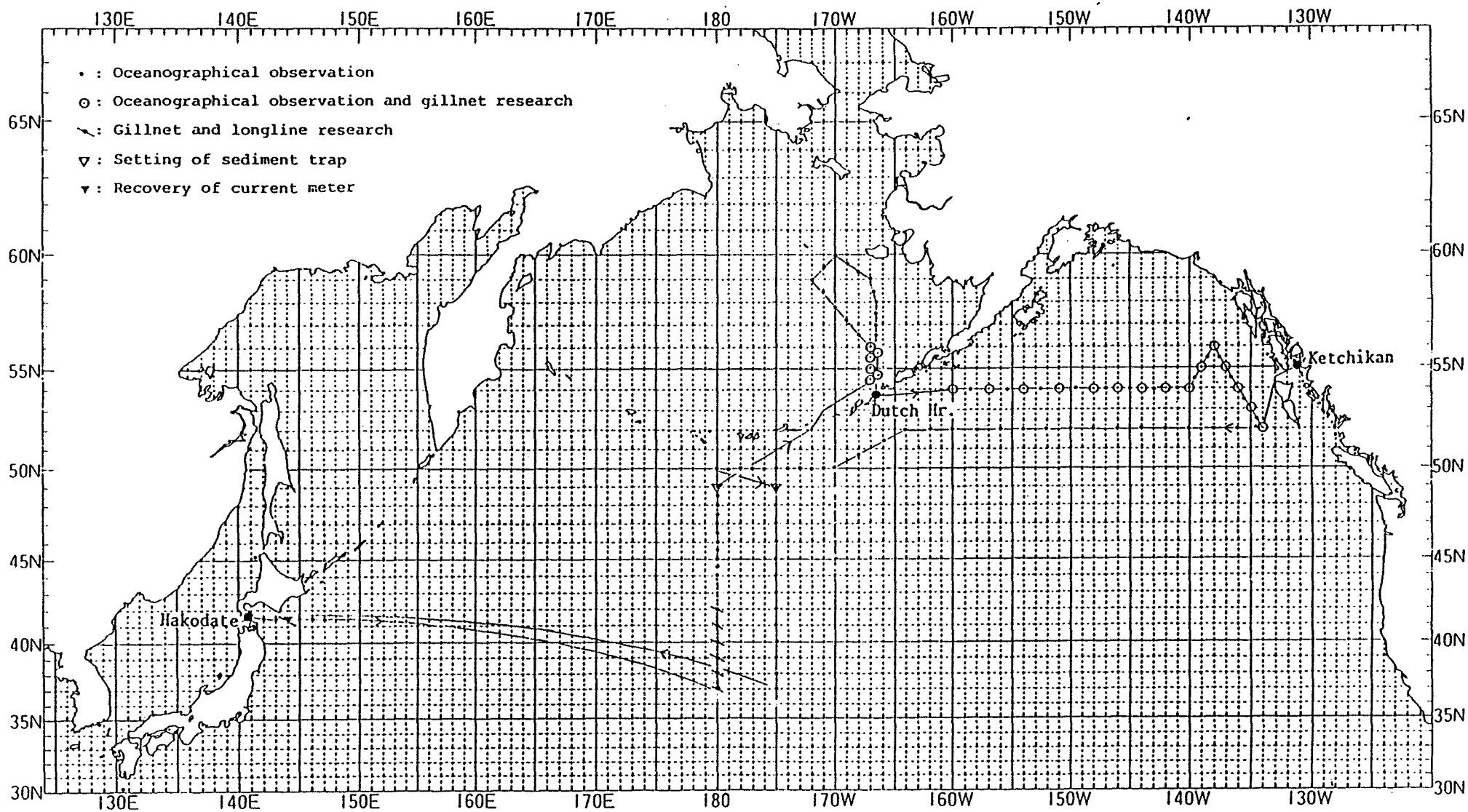
Figure 5. Cruise of WAKATAKE MARU 6. 7 (Hakodate)~ 7.28 (Hakodate)

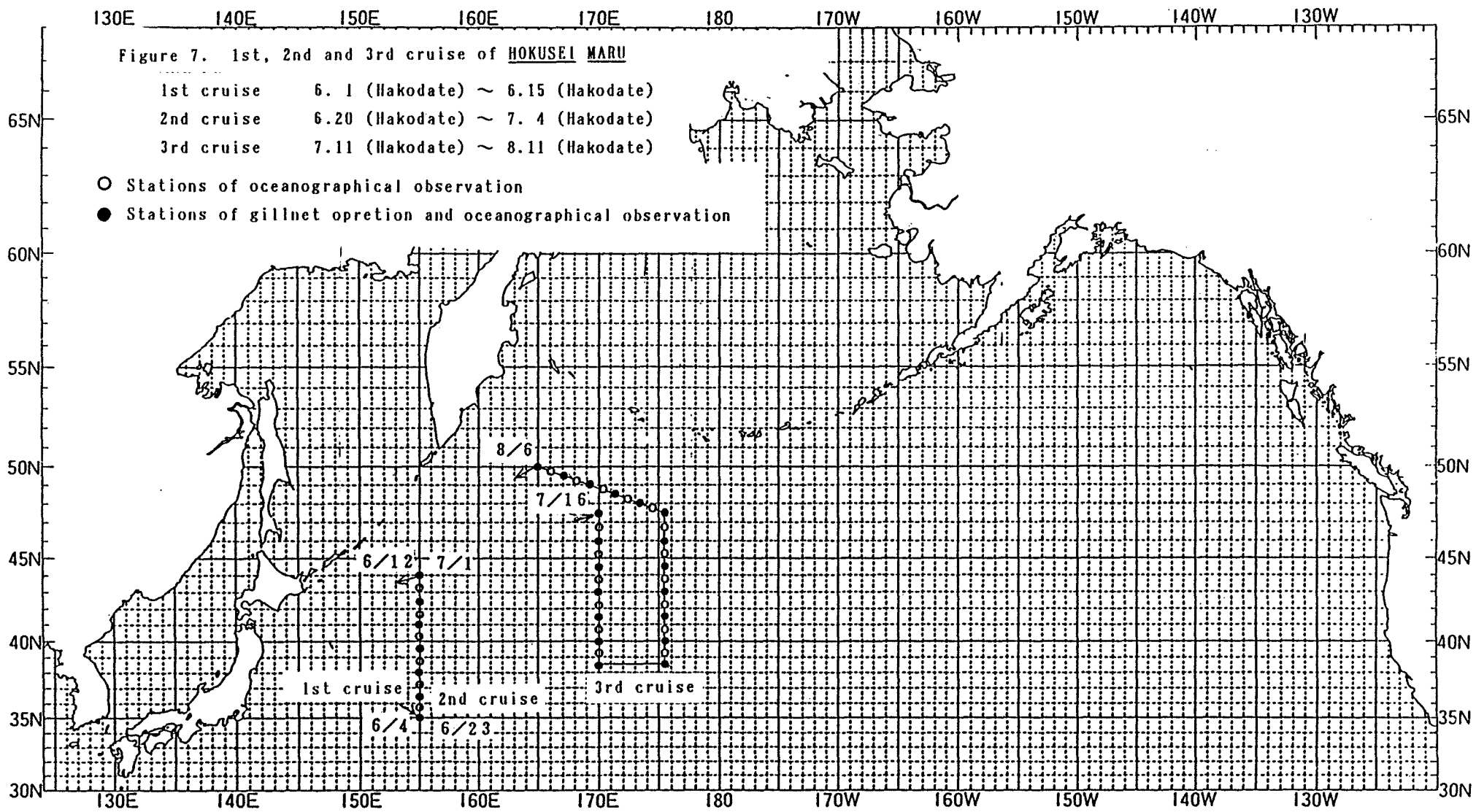
- ⊗ Stations of right angle gillnet operation (C net) and longline operation at sunrise
- Ⓐ Stations of repeated gillnet operation during 24 hrs. (A net) and usual C net operation
- Ⓢ Stations of gillnet operation at particular time of day and longline operation
- ⊙ Stations of circular shaped gillnet operation (A and C net) and longline operation



140 E 150 E 160 E 170 E 180 170W 160W 150W

Figure 6. Cruise of OSHORO MARU 6. 6 (Hakodate) ~ 8.18 (Hakodate)





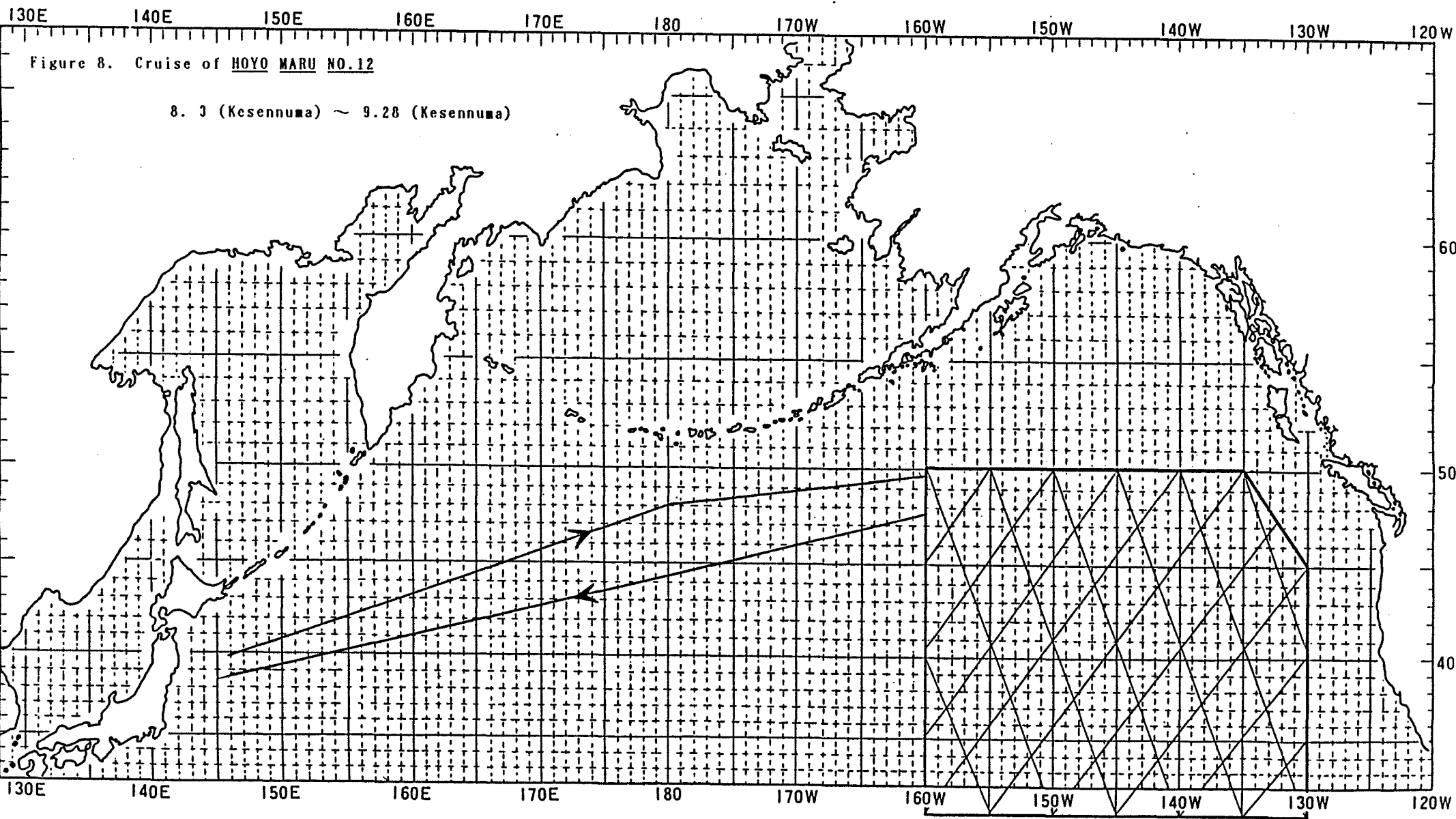


Figure 8. Cruise of HOYO MARU NO.12

8.3 (Kesennuma) ~ 9.28 (Kesennuma)