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Proposed Cruise Plans of Japanese Research Vessels for  
Salmon and Marine Mammals in the North Pacific Ocean, 1990

September, 1989

Fisheries Agency of Japan

Summary table

Proposed Cruise Plan of Japanese Research Vessels for Salmon and Marine Mammals in the North Pacific Ocean including U. S. 200 Miles Zone in 1990.

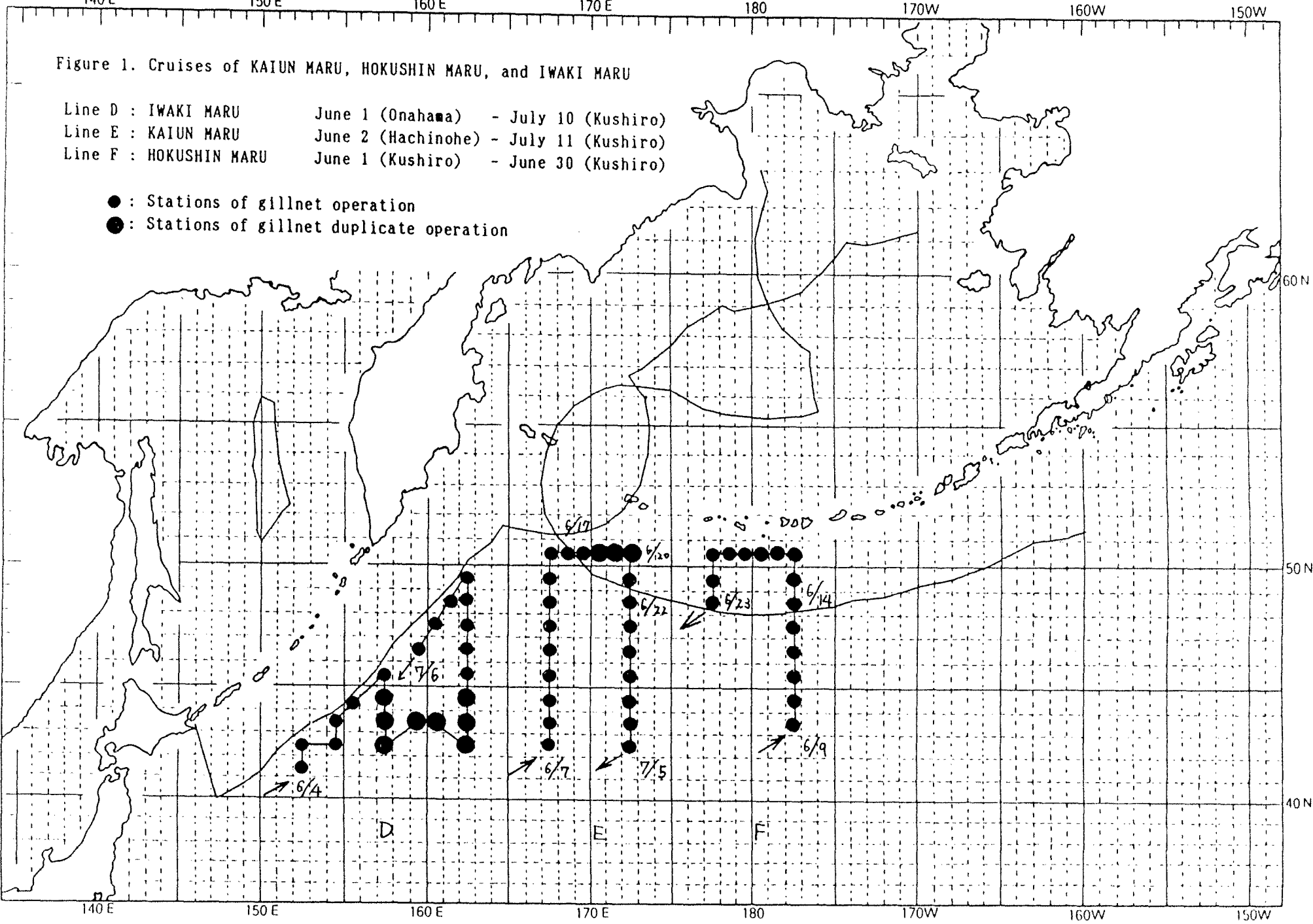
Vessel	Period	Port for departure and entry	Gear equipped	Attached figure	Main objectives
IWAKI MARU	June 1 - July 10	Onahama - Kushiro	Gillnets	1	Distribution and abundance of salmon
KAIUN MARU	June 2 - July 11	Hachinohe - Kushiro	Gillnets	1	Distribution and abundance of salmon
HOKUSHIN MARU	June 1 - June 30	Kushiro - Kushiro	Gillnets	1	Distribution and abundance of salmon
SHIN RIASU MARU	June 1 - July 15	Miyako - Kushiro	Gillnets & Longlines	2	Abundance and tagging of salmon Salmon tracking survey
HOKUHO MARU	June 6 - July 20	Hakodate - Kushiro	Gillnets & Longlines	3	Abundance and tagging of salmon
ETSUZAN MARU	June 1 - July 15	Misaki - Kushiro	Longlines	4	Tagging of salmon
HOKKO MARU	June 20 - July 14	Kushiro - Kushiro	Gillnets & Longlines	5	Japan-U.S.S.R cooperative study
WAKATAKE MARU	June 1 - July 23	Kushiro - Hakodate	Gillnets & Longlines	6	Abundance and tagging of salmon
No.1 RIASU MARU	June 5 - July 19	Miyako - Kushiro	Longlines	7	Tagging of salmon
OSHORU MARU	June 3 - Aug. 18	Hakodate - Hakodate	Gillnets, Longlines & Trawl	8	Distribution of salmon and pelagic fish and tagging of salmon
HOKUSEI MARU	June 1 - June 15	Hakodate - Hakodate	Gillnets	9	Distribution of salmon and pelagic fish
	June 20 - July 4	Hakodate - Hakodate	Gillnets	9	Distribution of salmon and pelagic fish
	July 10 - Aug. 10	Hakodate - Hakodate	Gillnets	9	Distribution of salmon and pelagic fish

U.S. port call : Oshoro maru : Dutch Hr.(Jun.20, Jun.26-29, Aug.5)  
Seward (Jul.16-20)

Figure 1. Cruises of KAIUN MARU, HOKUSHIN MARU, and IWAKI MARU

Line D : IWAKI MARU      June 1 (Onahama) - July 10 (Kushiro)  
 Line E : KAIUN MARU      June 2 (Hachinohe) - July 11 (Kushiro)  
 Line F : HOKUSHIN MARU    June 1 (Kushiro) - June 30 (Kushiro)

● : Stations of gillnet operation  
 ● : Stations of gillnet duplicate operation

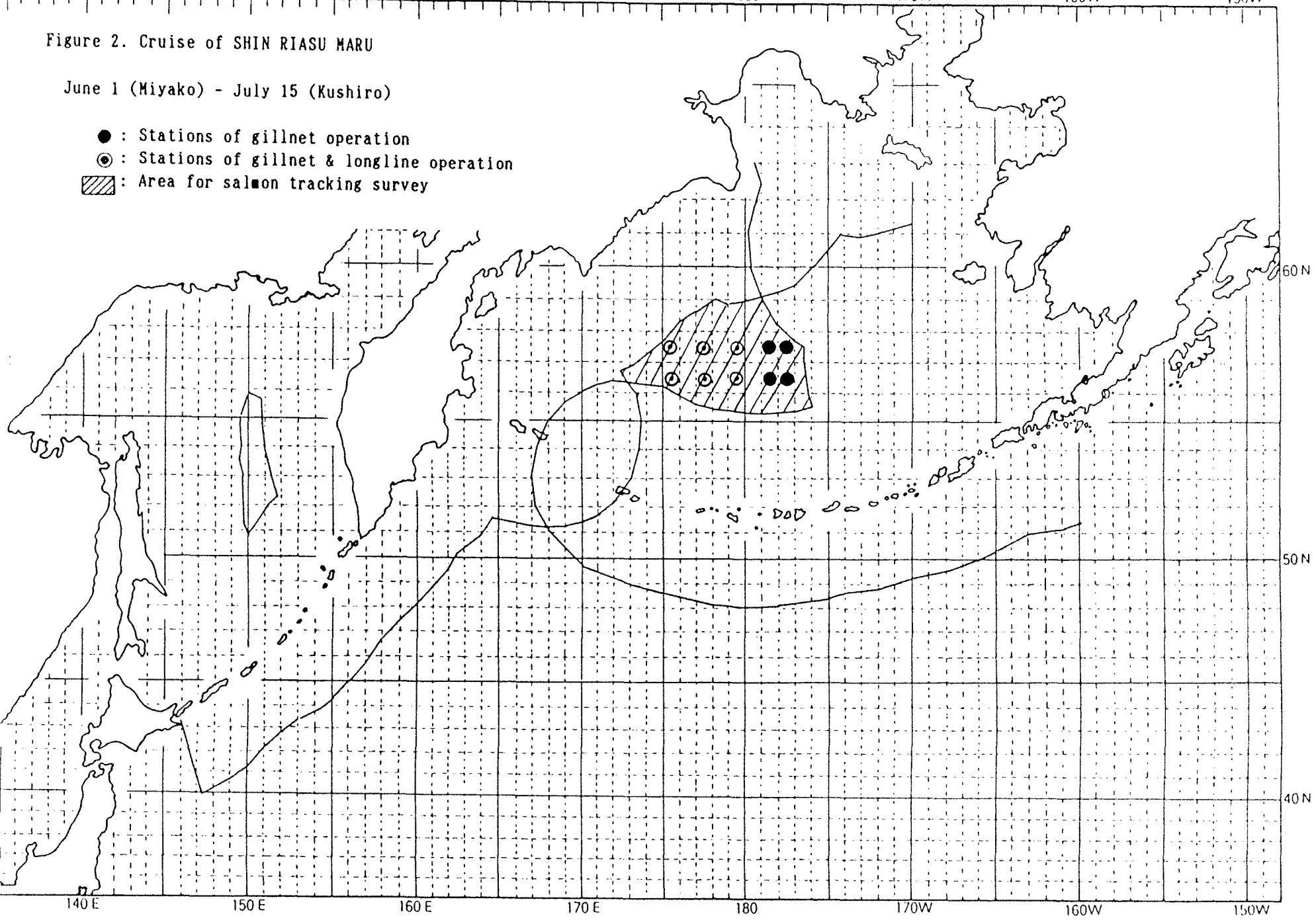


140 E 150 E 160 E 170 E 180 170 W 160 W 150 W

Figure 2. Cruise of SHIN RIASU MARU

June 1 (Miyako) - July 15 (Kushiro)

- : Stations of gillnet operation
- ⊙ : Stations of gillnet & longline operation
- ▨ : Area for salmon tracking survey

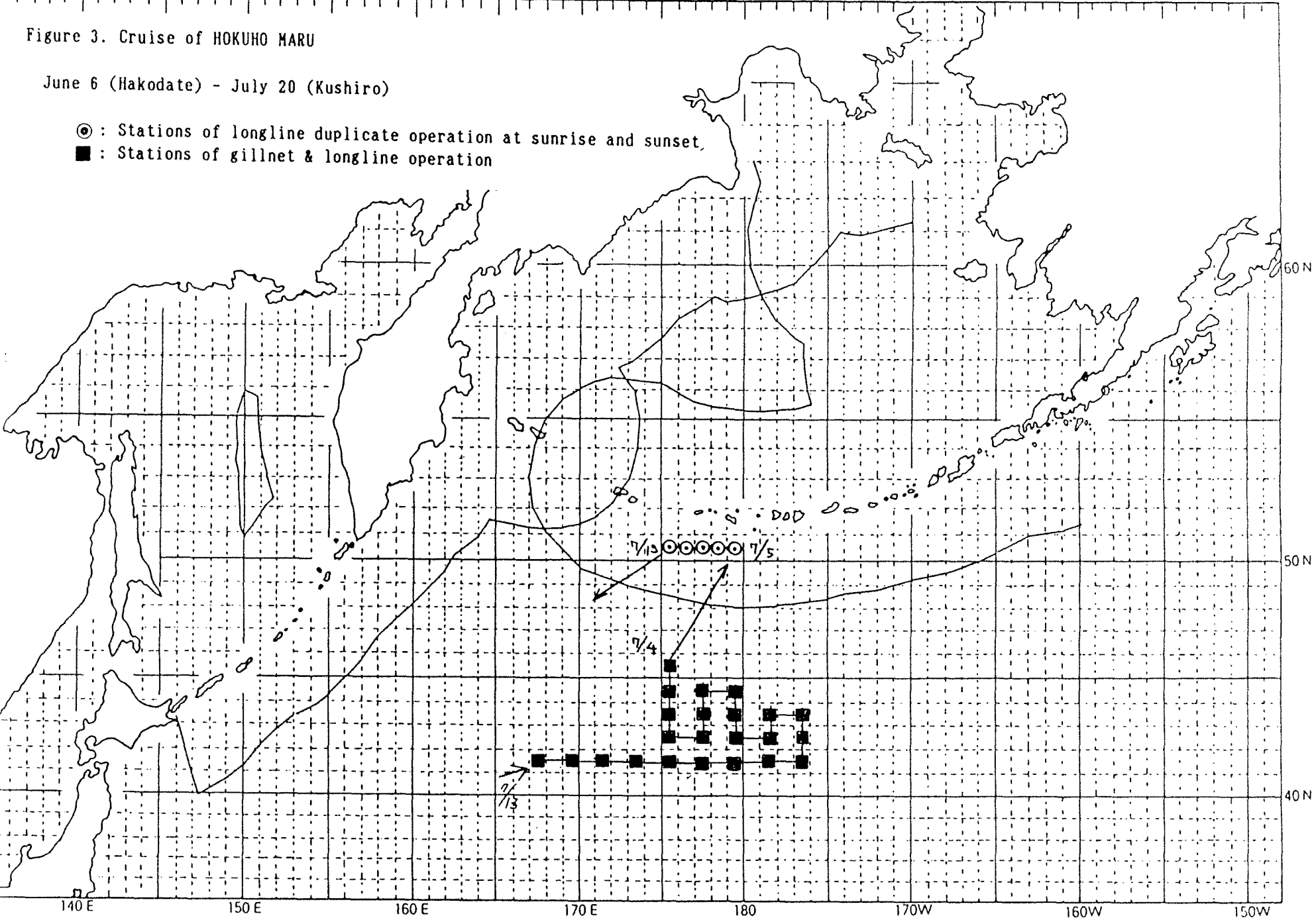


140 E      150 E      160 E      170 E      180      170 W      160 W      150 W

Figure 3. Cruise of HOKUHO MARU

June 6 (Hakodate) - July 20 (Kushiro)

- ⊙ : Stations of longline duplicate operation at sunrise and sunset.
- : Stations of gillnet & longline operation

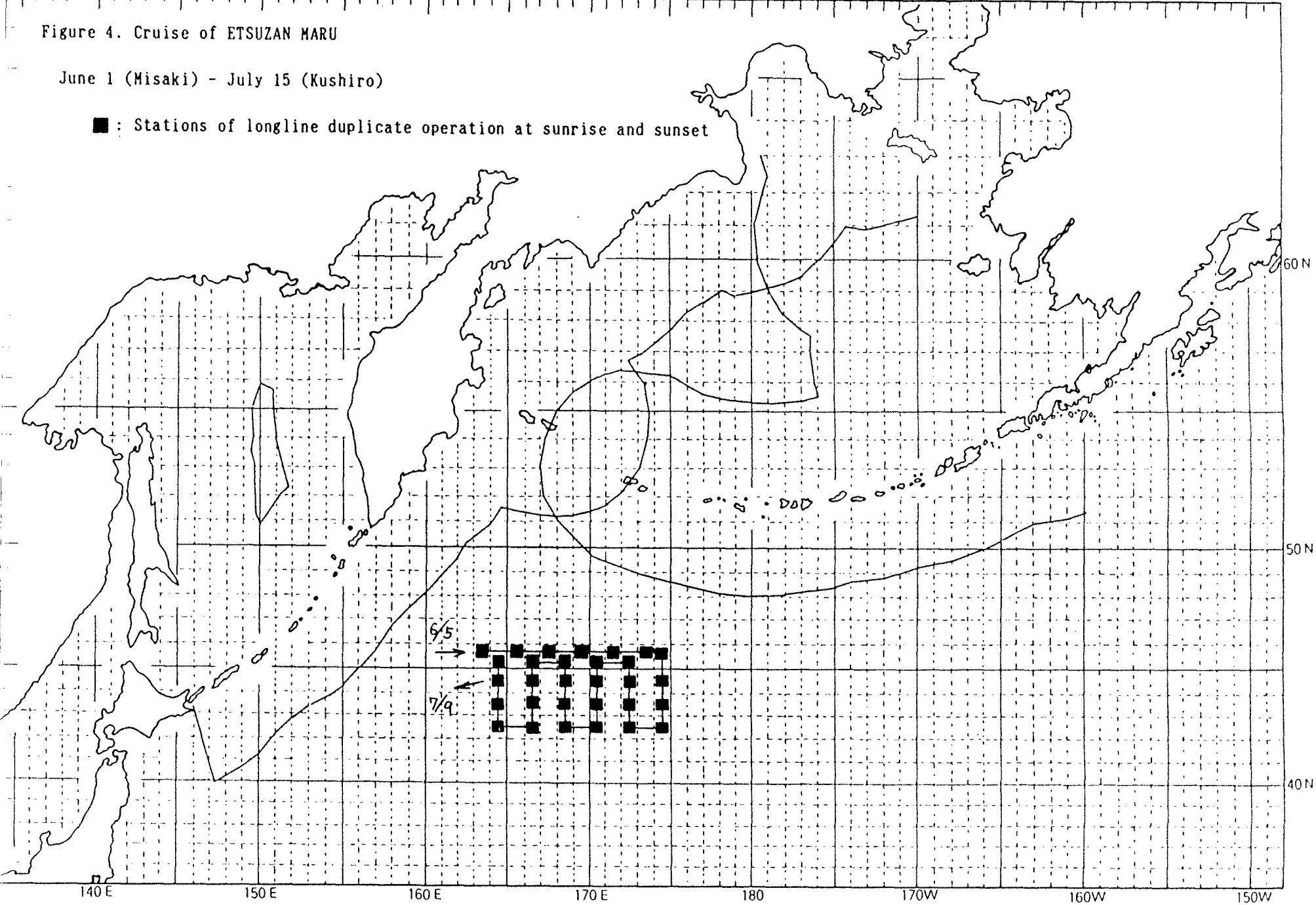


140 E      150 E      160 E      170 E      180      170W      160W      150W

Figure 4. Cruise of ETSUZAN MARU

June 1 (Misaki) - July 15 (Kushiro)

■ : Stations of longline duplicate operation at sunrise and sunset



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

60 N

50 N

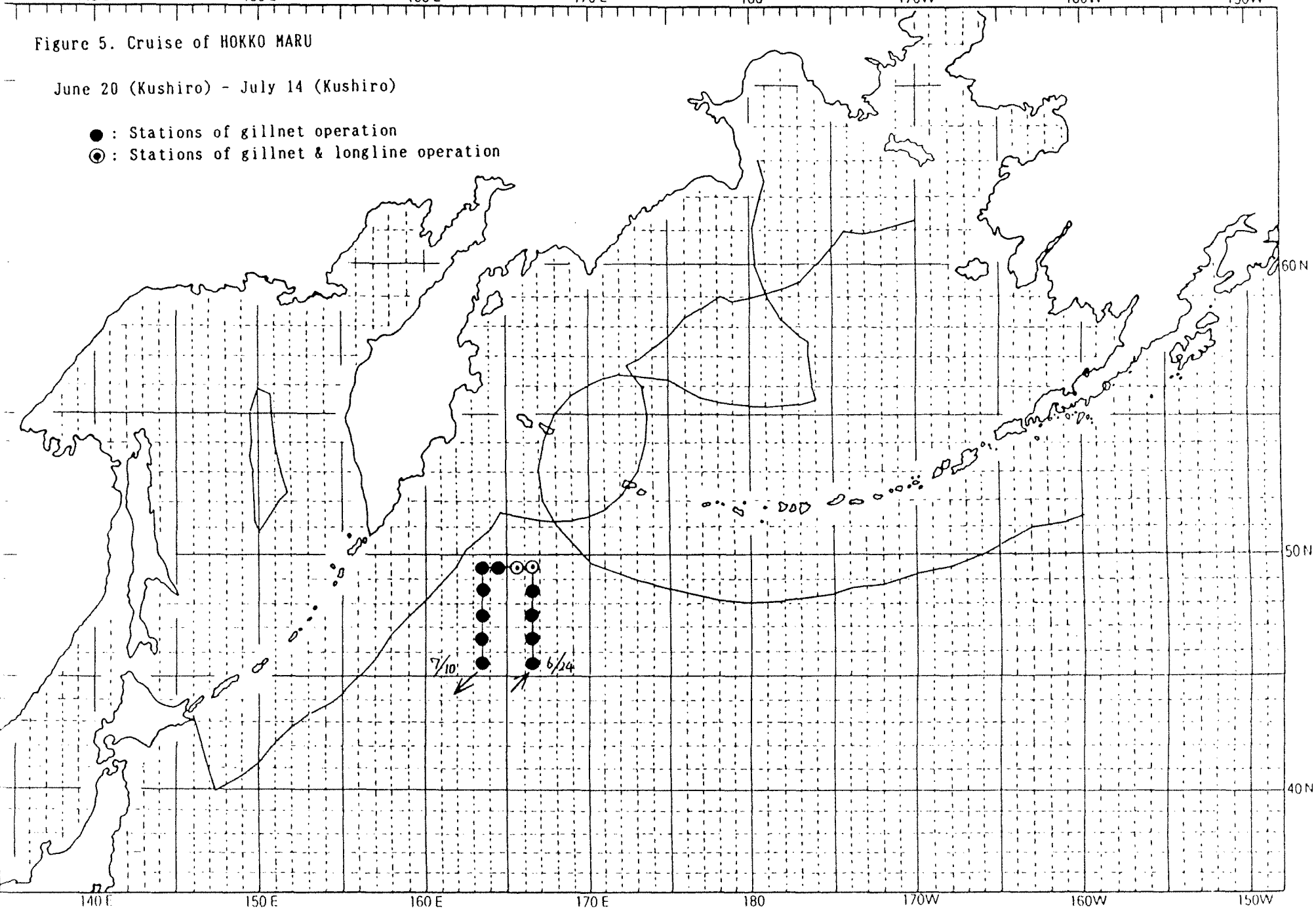
40 N

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

Figure 5. Cruise of HOKKO MARU

June 20 (Kushiro) - July 14 (Kushiro)

- : Stations of gillnet operation
- ⊙ : Stations of gillnet & longline operation



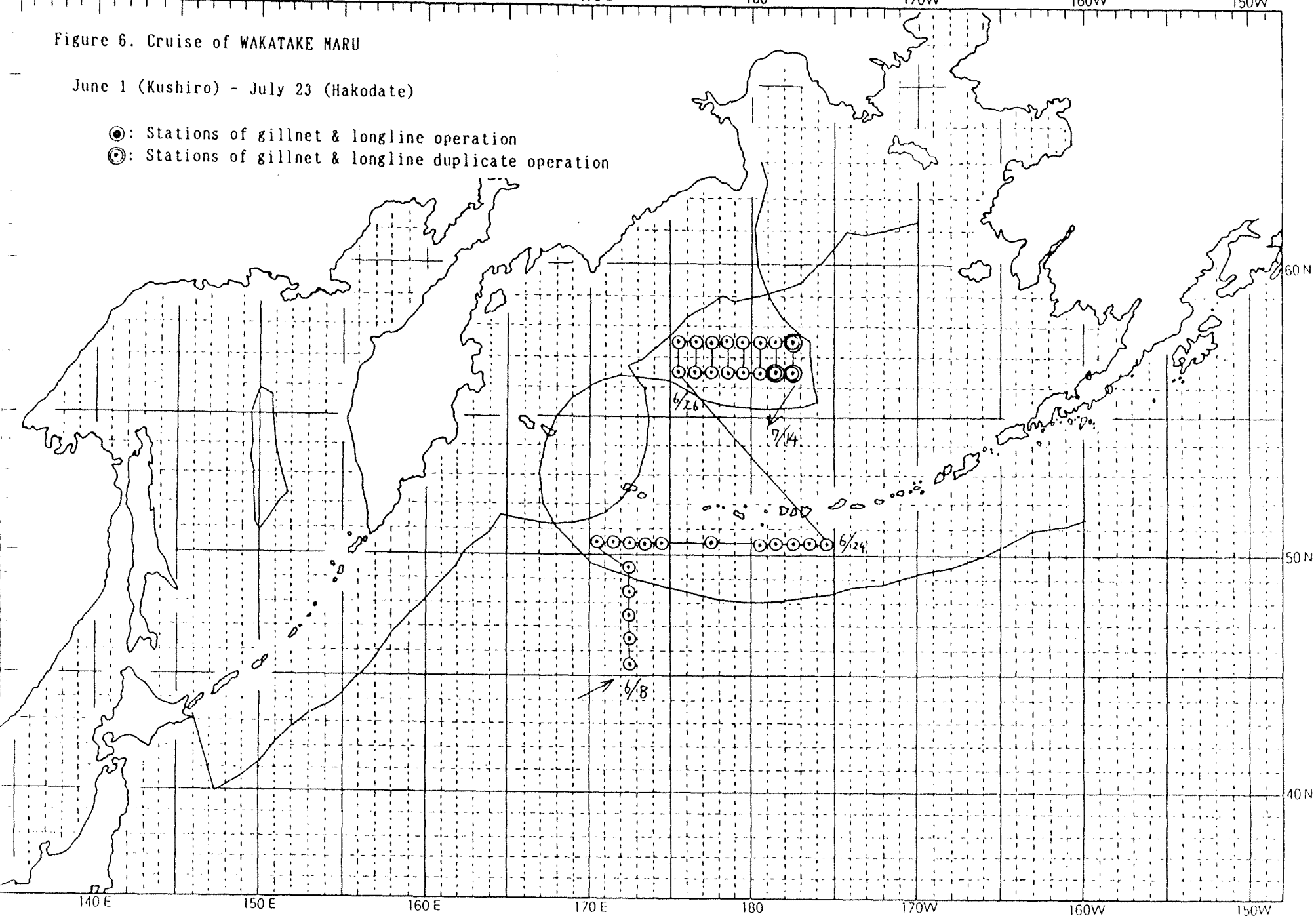
140 E      150 E      160 E      170 E      180      170 W      160 W      150 W

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

Figure 6. Cruise of WAKATAKE MARU

June 1 (Kushiro) - July 23 (Hakodate)

- ⊙: Stations of gillnet & longline operation
- ⊗: Stations of gillnet & longline duplicate operation



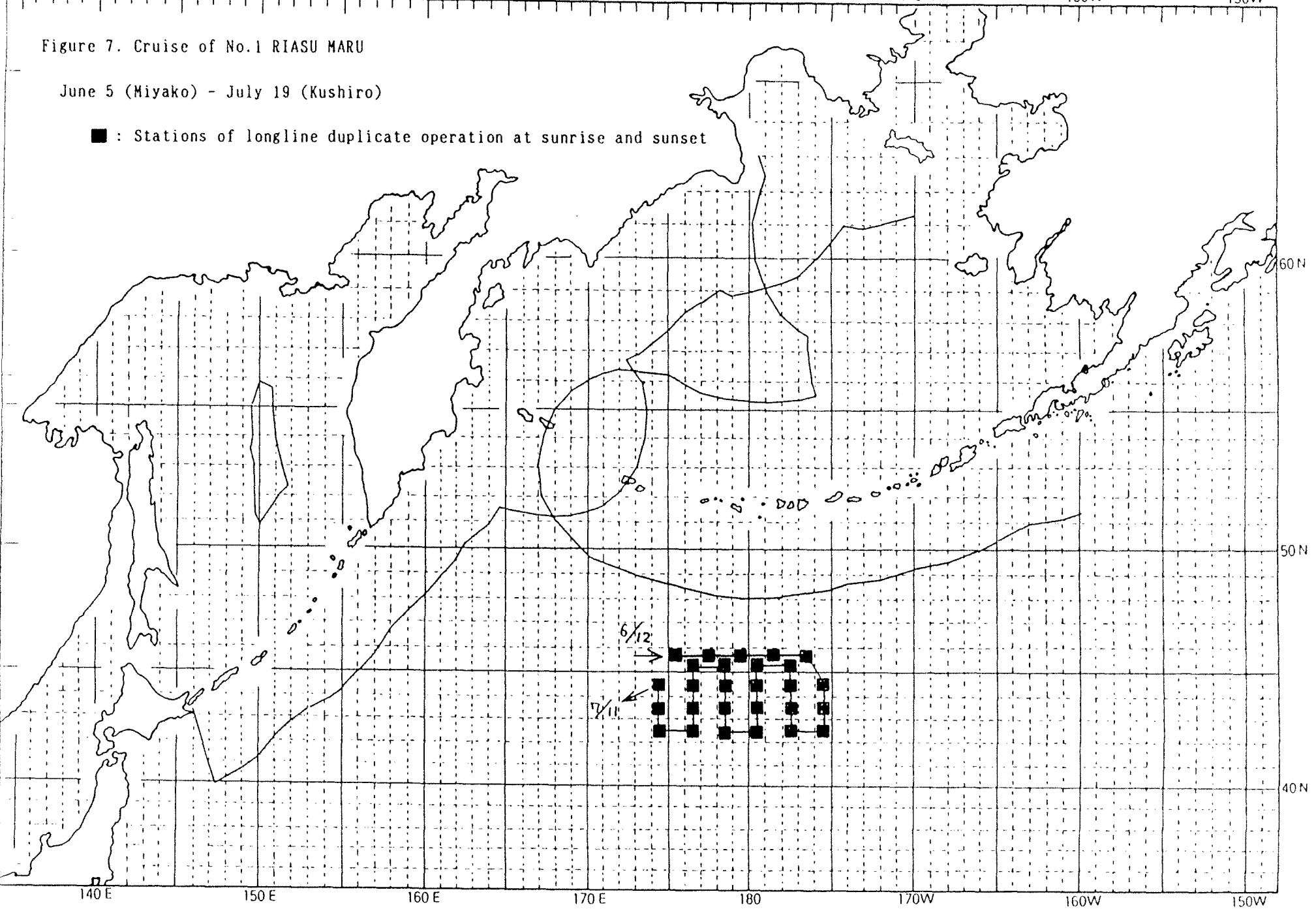


140E 150E 160E 170E 180 170W 160W 150W

Figure 7. Cruise of No.1 RIASU MARU

June 5 (Miyako) - July 19 (Kushiro)

■ : Stations of longline duplicate operation at sunrise and sunset



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

60N

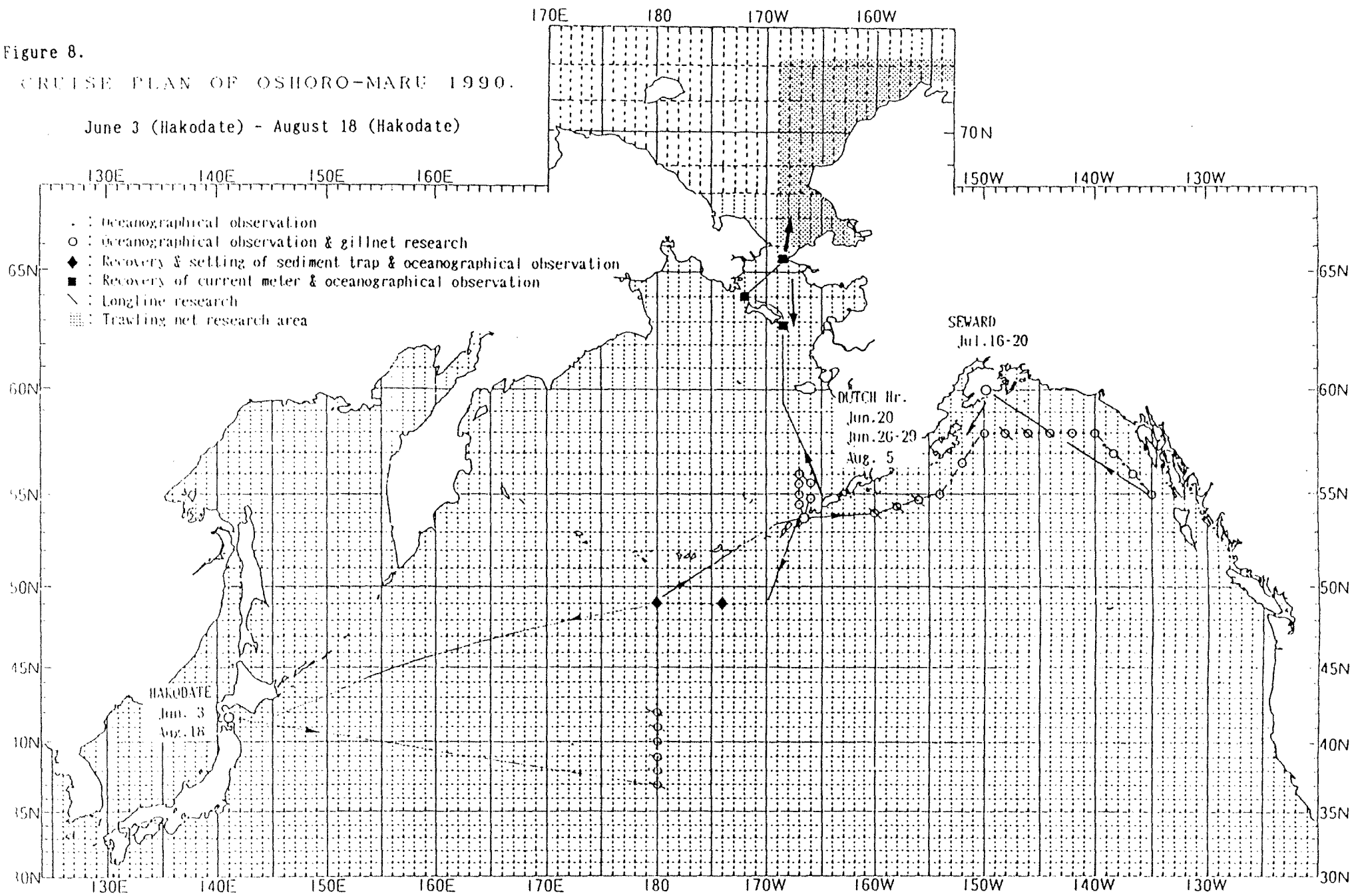
50N

40N

Figure 8.

CRUISE PLAN OF OSHORO-MARE 1990.

June 3 (Hakodate) - August 18 (Hakodate)



130E 140E 150E 160E 170E 180 170W 160W 150W 140W 130W

Figure 9. 1st, 2nd and 3rd cruises of HOKUSEI MARU

June 1 (Hakodate) - June 15 (Hakodate)

June 20 (Hakodate) - July 4 (Hakodate)

July 10 (Hakodate) - August 10 (Hakodate)

○ : Stations of oceanographical observation

● : Stations of gillnet operation and oceanographical observation

