Proposed cruise plan of Japanese research vessels for salmon and marine mammals in the North Pacific Ocean, 1984

1984 February

Fisheries Agency of Japan
<table>
<thead>
<tr>
<th>Vessel</th>
<th>Cruise</th>
<th>Period</th>
<th>Port for departure and entry</th>
<th>Gear equipped</th>
<th>Attached Figure</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOKUSIN MARU</td>
<td>1st cruise</td>
<td>April 20 - May 28</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd cruise</td>
<td>June 7 - July 25</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets</td>
<td>2</td>
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<tr>
<td>HOKUHO MARU</td>
<td>1st cruise</td>
<td>April 20 - May 30</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets &amp; Longlines</td>
<td>3</td>
<td>Including salmon tagging</td>
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<tr>
<td></td>
<td>2nd cruise</td>
<td>June 25 - August 2</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets &amp; Longlines</td>
<td>4</td>
<td>Including salmon tagging</td>
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<tr>
<td>RIASU MARU No.2</td>
<td>1st cruise</td>
<td>April 20 - July 31</td>
<td>Miyako - Kushiro</td>
<td>Gillnets &amp; Longlines</td>
<td>3</td>
<td>Including salmon tagging</td>
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<td></td>
<td>2nd cruise</td>
<td>June 23 - July 31</td>
<td>Miyako - Kushiro</td>
<td>Gillnets &amp; Longlines</td>
<td>4</td>
<td>Including salmon tagging</td>
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<tr>
<td>IWAKI MARU</td>
<td>1st cruise</td>
<td>April 20 - May 28</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd cruise</td>
<td>June 3 - July 7</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets</td>
<td>2</td>
<td></td>
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<tr>
<td>KUMAMOTO MARU</td>
<td>1st cruise</td>
<td>April 20 - June 4</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets</td>
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<td></td>
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<tr>
<td></td>
<td>2nd cruise</td>
<td>June 11 - July 27</td>
<td>Kushiro - Kushiro</td>
<td>Gillnets</td>
<td>2</td>
<td></td>
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<tr>
<td>OSHIRO MARU</td>
<td>One cruise</td>
<td>June 5 - July 22</td>
<td>Hakodate - Hakodate</td>
<td>Gillnets &amp; Longlines</td>
<td>5</td>
<td>Including salmon tagging</td>
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<tr>
<td>HOKUSAN MARU</td>
<td>1st cruise</td>
<td>June 1 - June 15</td>
<td>Hakodate - Hakodate</td>
<td>Gillnets</td>
<td>6</td>
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<tr>
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<td>2nd cruise</td>
<td>June 20 - July 5</td>
<td>Hakodate - Hakodate</td>
<td>Gillnets</td>
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<tr>
<td></td>
<td>3rd cruise</td>
<td>July 11 - August 11</td>
<td>Hakodate - Hakodate</td>
<td>Gillnets</td>
<td>6</td>
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<tr>
<td>HOKKO MARU</td>
<td>One cruise</td>
<td>June 11 - July 10</td>
<td>Kushiro - Kushiro</td>
<td>Longlines</td>
<td>7</td>
<td>Including salmon tagging</td>
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<tr>
<td>WAKATATE MARU</td>
<td>1st cruise</td>
<td>May 5 - June 15</td>
<td>Hakodate - Hakodate</td>
<td>Gillnets &amp; Longlines</td>
<td>8</td>
<td>Including salmon tagging</td>
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<tr>
<td></td>
<td>2nd cruise</td>
<td>June 25 - August 10</td>
<td>Hakodate - Hakodate</td>
<td>Gillnets &amp; Longlines</td>
<td>8</td>
<td>Including salmon tagging</td>
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<td>A Vessel (Undecided)</td>
<td>One cruise</td>
<td>Mid May - Late June</td>
<td>(Undecided)</td>
<td>Harpoon</td>
<td>9</td>
<td>Study for Dall's porpoise</td>
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</tbody>
</table>
Figure 1: First cruise of Hokushin maru, Iwaki maru and Kumamoto maru

- Line A: Hokushin maru
- Gillnet stations

- Line B: Iwaki maru
- Gillnet stations for repeated operation

- Line C: Kumamoto maru

Gillnet stations

- Gillnet stations for repeated operation
Figure 2 Second cruise of Iwaki maru, Kumamoto maru and Hokushin maru

Line D: Iwaki maru
Line E: Kumamoto maru
Line F: Hokushin maru

Gillnet stations
Gillnet stations for repeated operation
Figure 3 First cruise of Hokuho maru and Riasu maru No. 2

Line G: Hokuho maru
Line H: Riasu maru No. 2

Longline stations
Longline & gillnet stations
Figure 4  Second cruise of Riasu maru No. 2 and Hokuho maru

Line I: Riasu maru No. 2
- Gillnet stations

Line J: Hokuho maru
- Gillnet & longline stations
Figure 5 Cruise of Oshoro maru

- Oceanographical observation
- Gillnet operation
Figure 6 First, second and third cruises of Hokusei maru

- Oceanographical observation
- Gillnet operation

1st cruise
2nd cruise
3rd cruise
8/6
7/16
6/12
7/2
6/4
6/25
150 W
160 E
170 E
180
170 W
160 W
150 W
60 N
50 N
40 N
35
Figure 8 First and second cruises of Wakatake maru

- Gillnet stations
- Gillnet & longline stations
Figure 9: Cruise of A Vessel