FOREIGN AND DOMESTIC FISHING ACTIVITIES OFF ALASKA 1980

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Law Enforcement Division
Juneau, Alaska

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Law Enforcement Branch
National Marine Fisheries Service
Alaska Region
Juneau, Alaska

December 1984

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INTRODUCTION

The annual report for the Law Enforcement Branch of the National Marine Fisheries Service, Alaska Region, is a comprehensive summary of foreign and domestic fishing activities and enforcement activities within the 200-mile limit off Alaska during 1980. Activities of the NMFS Law Enforcement Branch and U.S. Coast Guard throughout Alaskan waters are reviewed and summarized.

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Information presented in this report was obtained from surveillance data, enforcement proceedings, and reports generated by both foreign and domestic sources.

ALASKA ENFORCEMENT

The Law Enforcement Branch of the National Marine Fisheries Service, Alaska Region, has joint responsibility with the U.S. Coast Guard for the enforcement of U.S. fisheries regulations and international laws and treaties. This includes the monitoring of foreign fishing activity required under the enactment of the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA), which extended NMFS' enforcement mandate from the limits of the territorial sea to 200 miles off Alaska. The long-range objectives of these fisheries laws are:

1. To ensure that foreign and U.S. fishermen comply with regulatory provisions and treaties designed to achieve restoration and conservation of the marine living resources off Alaska. The end result will allow U.S. fishermen to harvest more of the resources with priority over foreign fleets, but within conservation guidelines provided by regulations.

2. To provide key fishery officials with continuous detailed data concerning the foreign fisheries off Alaska that will enable proper management of the living marine resources, and will facilitate knowledgeable formulation of national and international fisheries management policies of the United States.

Enforcement and Monitoring Activities

In 1980, the Law Enforcement Branch continued to maintain high levels of activity to meet continuing duties under fisheries laws and international treaties, and the increased responsibilities of the Magnuson Fishery Conservation and Management Act of 1976. However, at this time of expanding enforcement responsibilities, the Law Enforcement staff for the Alaska Region suffered cuts from 25 personnel in 1979 to 21 in 1980 (Table 1). The central office in Juneau and field stations at Kodiak, Sitka, and Anchorage utilized a budget of approximately $900,000, similar to 1979.

Fishery Patrols

U.S. fishery patrols in the North Pacific Ocean and Bering Sea were conducted jointly by the NMFS Law Enforcement Branch and U.S. Coast Guard (Tables 2 and 4). As in previous years, these patrols continued to enforce U.S. fishery laws and to maintain surveillance of foreign fisheries.

Since 1977, coverage by ship patrols had been on a downward trend, while aerial patrols increased steadily. This, however, was reversed in 1980. Coast Guard ships covered 125,381 miles in 687 days, an increase of 27,312 miles and 118 days over 1979. A total of 292 aerial patrols were conducted, covering 267,448 miles; that fell short of 1979 levels by 52 patrols and 7,912 miles. However, as in past years, personnel aboard aerial patrols still made the majority (76 percent) of all sightings, while

covering 68 percent of total patrol miles. Sightings of vessels increased 3 percent over 1979, from 9,035 to 9,309 sightings. A total of 372 boardings were conducted in 1980, compared to 369 in 1979. See Appendix 10 for a complete listing of foreign vessels boarded in 1980.

Aerial patrols were conducted by H-3 helicopters from the Coast Guard Air Stations at Sitka and Kodiak and by C-130 turbo prop aircraft from the Kodiak Air Station. Surface patrols were conducted by Coast Guard cutters BOUTWELL, CAMPBELL, CAPE CORAL, CAPE HENLOPEN, CAPE JELLISON, CAPE ROMAIN, CONFIDENCE, IRONWOOD, JARVIS, MELLON, MIDGETT, MUNRO, RUSH, SEDGE, SHERMAN, and STORIS. In addition, several 378-foot cutters utilized shipborne helicopters to expand their patrol range.

As in 1979, 27 percent of all Coast Guard fisheries patrols off Alaska were accompanied by NMFS Special Agents. NMFS Special Agents spent a total of 263 days on Coast Guard patrols; about 80 percent of those days were spent aboard ships and 20 percent in the air. Eighteen percent of the 9,309 vessel sightings and 30 percent of the 372 boardings conducted in 1980 utilized NMFS Agent expertise. In addition, Special Agents also expended a large number of shoreside hours patrolling the domestic fishing fleet and investigating marine mammals and endangered species violations.

Observer Program

Under the MFCMA, the primary function of the Northwest and Alaska Fisheries Center (NWAFC) Observer Program is to monitor the catch aboard selected foreign vessels to derive species composition and amounts. Other functions are verifying the level of effort, collecting catch data on prohibited species, and observing foreign fishing techniques. When a specified level of coverage for a nation, vessel type, and fishing area is reached, observer data is combined with the corresponding weekly catch reports submitted by each foreign vessel to derive a "best blend" estimate of the true level of catch for each nation. Best blend catch statistics, presented throughout this report, are accepted as official foreign catch data and used for allocation purposes.

In 1980, the NWAFC Observer Program continued coverage of the foreign fleets off Alaska, though levels were reduced slightly from 1979 (Table 5). A total of 5,484 observer days were used to cover the extensive foreign fishing effort for a total 11.6 percent coverage. As in 1979, Japanese crab factoryships, groundfish factoryships, independent crab pot vessels, and salmon factoryships received the most complete coverage, ranging from 51 to 83 percent. Japanese snail pot vessels, Taiwanese vessels, and Korean longliners did not have observer coverage during 1979 or 1980.

Alaska Fisheries Law

International fisheries law off Alaska remained similar to previous years. Governing International Fishery Agreements (GIFA's) with Japan, Korea, the Soviet Union, Poland, Taiwan, and West Germany were enforced in 1980, as well as four conventions and one public law (Table 3). The bilateral agreement with Canada remained in effect after being amended by protocol in 1979. All other GIFA's continued, awaiting the usual 2-year review milestone.

1980 was the fourth consecutive year of fishery management under the Magnuson Fishery Conservation and Management Act. All MFCMA management plans that regulated foreign and domestic fishing in the 3-200 mile zone off Alaska in 1979 continued in effect into 1980. Following is a summary of all plans and major amendments during 1980:

1. Bering Sea and Aleutian Islands Trawl and Herring Gillnet (Preliminary Management Plan regulating foreign fishing only - Figure 1). Herring became a prohibited species to foreign fishermen on February 8, 1980, following an order by a U.S. District Court judge that invalidated the herring portion of the Bering Sea/Aleutians PMP. Subsequent amendments to the foreign reporting requirements created a new statistical area between 58N-5930N and 172W-175W. Special requirements for reporting herring caught by trawl vessels in this area are in effect from September 1 to April 30.

2. Gulf of Alaska Groundfish (Fishery Management Plan regulating both foreign and domestic fishing - Figure 2). This plan was amended on November 1, 1980. The amendment changed the plan year from November 1-October 31 to calendar year, and established four species categories: unallocated, target, other species, and non-specified.

3. Snails (Preliminary Management Plan regulating foreign fishing only). Plan was not amended during 1980.

4. Tanner Crab (Fishery Management Plan regulating foreign and domestic fishing). An amendment to the plan on November 3, 1980 restricted foreign fishing to the area north of 58N and west of 164W, and implemented joint venture provisions.

5. Salmon Power Troll (Fishery Management Plan regulating domestic fishing only). An amendment on September 8, 1980:

    a. Imposed an annual 10-day area-wide closure after an assessment of the coho salmon run strength and dispersion to inshore fisheries, unless the run was deemed to be of such magnitude as to make such a closure unnecessary.
    b. Required the landing with heads on of all troll caught chinook and coho salmon.
    c. Prohibited the possession of any species aboard any trolling vessel fishing in an area or during a time for which the season for that species is closed.

d. Prohibited the mutilation in any manner which obscures the length of any species for which a minimum length has been set.
e. Restricted to four the maximum number of lines which may be fished from a trolling vessel south of the latitude of Cape Spencer, and restricted to six the maximum number of lines which may be fished north of the latitude of Cape Spencer.
f. Restricted to six the maximum number of power gurdies permitted on any licensed power troller.

Enforcement Actions

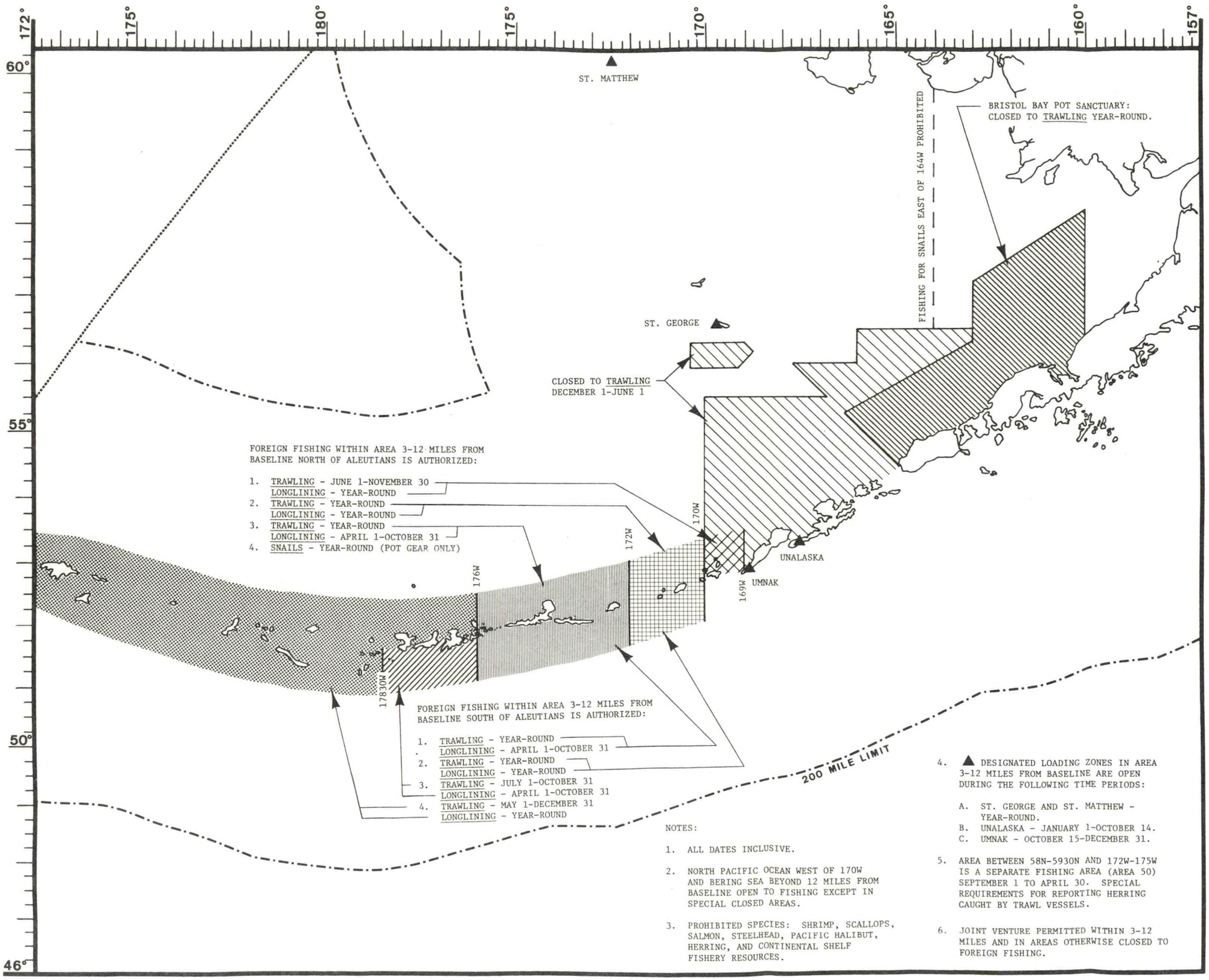
Beginning March 1, 1977, enforcement gained new flexibility in dealing with infractions of Federal law and international fisheries agreements. Before then, enforcement units were somewhat limited in their actions once a violation was detected. If a vessel was detected violating U.S. law, the enforcement unit had the option of giving the vessel a verbal warning or seizing it for further prosecution in U.S. District Court. If a vessel was detected violating a provision of a bilateral agreement, the incident was documented and protest sent to the flag government through diplomatic channels. When infractions of the International North Pacific Fisheries Convention were detected, the alleged violating vessel was often seized but turned over to the flag government for prosecution.

After the implementation of the MFCMA, a variety of enforcement actions were possible for detected infractions of regulations. The enforcement unit now had the option of issuing a citation for minor infractions. This is equivalent to a written warning, but may be used as a basis for future enforcement actions against a vessel. For more serious violations of the regulations, the option existed to issue a report of violation, which provides for the assessment of civil penalties and possible permit sanctions. For major infractions of the regulations, the vessel could be seized and prosecuted in U.S. court.

In addition, the Law Enforcement Branch continued a cooperative enforcement agreement with the State of Alaska that began in 1978. The agreement allowed enforcement of state and federal fisheries regulations concurrently by officers of the Alaska Department of Public Safety and NMFS. This cross-deputization authorized NMFS Agents to investigate infractions of state laws and regulations which complement or implement North Pacific Fisheries Management Council plans.

The number of detected violations by U.S. and foreign vessels increased from 58 in 1979 to 75 in 1980 (Tables 6, 7, and 8). Included in these were 29 MFCMA citations, 22 MFCMA violations, 13 vessels seized under the MFCMA, and 11 halibut regulation violations. Enforcement actions against foreign nations numbered 17 for Japan, 28 for the Soviet Union (includes 13 cases still pending), 6 for Korea, 9 for Poland, and 2 for Taiwan. West Germany completed its first year of fishing off Alaska without committing any infractions. U.S. vessels were responsible for 13 infractions.

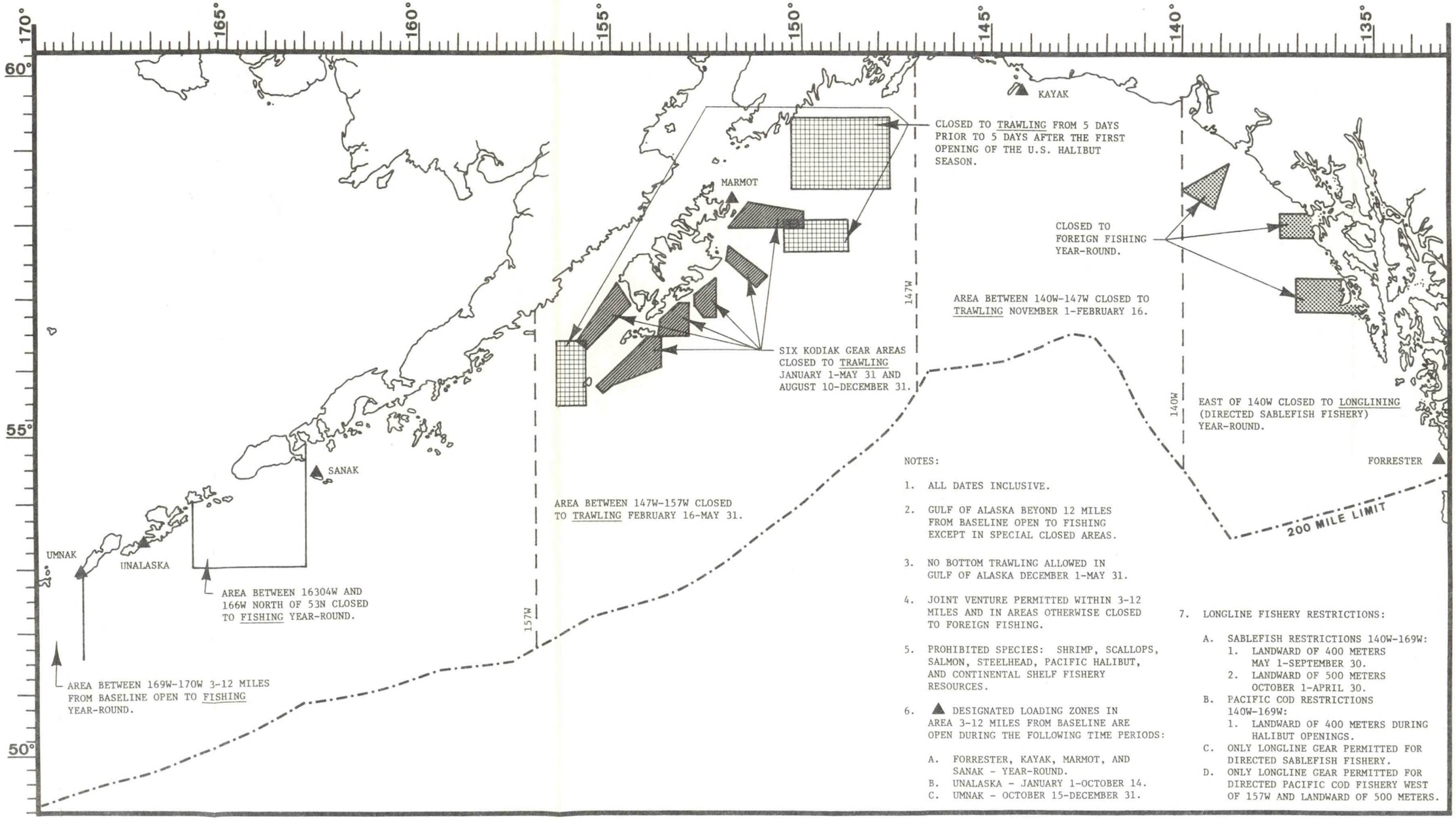
Figure 1 - Foreign Fishing Regulations - Bering Sea and Aleutian Islands



NOTES:

1. ALL DATES INCLUSIVE.
2. NORTH PACIFIC OCEAN WEST OF 170W AND BERING SEA BEYOND 12 MILES FROM BASELINE OPEN TO FISHING EXCEPT IN SPECIAL CLOSED AREAS.
3. PROHIBITED SPECIES: SHRIMP, SCALLOPS, SALMON, STEELHEAD, PACIFIC HALIBUT, HERRING, AND CONTINENTAL SHELF FISHERY RESOURCES.
4. ▲ DESIGNATED LOADING ZONES IN AREA 3-12 MILES FROM BASELINE ARE OPEN DURING THE FOLLOWING TIME PERIODS:
   A. ST. GEORGE AND ST. MATTHEW - YEAR-ROUND.
   B. UNALASKA - JANUARY 1-OCTOBER 14.
   C. UMNAK - OCTOBER 15-DECEMBER 31.
5. AREA BETWEEN 58N-5930N AND 172W-175W IS A SEPARATE FISHING AREA (AREA 50) SEPTEMBER 1 TO APRIL 30. SPECIAL REQUIREMENTS FOR REPORTING HERRING CAUGHT BY TRAWL VESSELS.
6. JOINT VENTURE PERMITTED WITHIN 3-12 MILES AND IN AREAS OTHERWISE CLOSED TO FOREIGN FISHING.

Figure 2 - Foreign Fishing Regulations - Gulf of Alaska



NOTES:

1. ALL DATES INCLUSIVE.
2. GULF OF ALASKA BEYOND 12 MILES FROM BASELINE OPEN TO FISHING EXCEPT IN SPECIAL CLOSED AREAS.
3. NO BOTTOM TRAWLING ALLOWED IN GULF OF ALASKA DECEMBER 1-MAY 31.
4. JOINT VENTURE PERMITTED WITHIN 3-12 MILES AND IN AREAS OTHERWISE CLOSED TO FOREIGN FISHING.
5. PROHIBITED SPECIES: SHRIMP, SCALLOPS, SALMON, STEELHEAD, PACIFIC HALIBUT, AND CONTINENTAL SHELF FISHERY RESOURCES.
6. ▲ DESIGNATED LOADING ZONES IN AREA 3-12 MILES FROM BASELINE ARE OPEN DURING THE FOLLOWING TIME PERIODS:
   A. FORRESTER, KAYAK, MARMOT, AND SANAK - YEAR-ROUND.
   B. UNALASKA - JANUARY 1-OCTOBER 14.
   C. UMNAK - OCTOBER 15-DECEMBER 31.
7. LONGLINE FISHERY RESTRICTIONS:
   A. SABLEFISH RESTRICTIONS 140W-169W:
      1. LANDWARD OF 400 METERS MAY 1-SEPTEMBER 30.
      2. LANDWARD OF 500 METERS OCTOBER 1-APRIL 30.
   B. PACIFIC COD RESTRICTIONS 140W-169W:
      1. LANDWARD OF 400 METERS DURING HALIBUT OPENINGS.
   C. ONLY LONGLINE GEAR PERMITTED FOR DIRECTED SABLEFISH FISHERY.
   D. ONLY LONGLINE GEAR PERMITTED FOR DIRECTED PACIFIC COD FISHERY WEST OF 157W AND LANDWARD OF 500 METERS.

Foreign Violations

Foreign vessels committed 62 infractions of fishery laws in 1980. The number of fishery citations issued rose 16 percent from 1979 to 29. The majority of the citations were issued for minor logkeeping errors. Reports of violation jumped by 67 percent to 20; however, 13 of these cases are still pending. Most of the violations involved fishing in the FCZ without a permit or errors in reporting catch. Penalties collected thus far for 1980 foreign violations total $42,500.

As in 1979, several vessels committed infractions serious enough to warrant seizure. Thirteen vessels were seized in 1980, bringing the total number of seizures since the implementation of MFCMA to 25. The 13 vessels included 8 Japanese, 2 Soviet, 2 Polish, and 1 Taiwanese. One Polish vessel was seized primarily for retaining prohibited species (salmon and halibut). All other vessels were seized for flagrant underlogging of catch and species manipulation (overlogging some species to cover underlogging of more valuable species). Penalties over $3.8 million were collected for these cases, as well as a total of 42 months of permit sanctions.

Domestic Violations

A total of 13 domestic violations were detected in 1980, including 11 infractions of the International Pacific Halibut Convention (IPHC) and 2 infractions of the MFCMA. All of the IPHC violations and one MFCMA violation involved fishing during a closed period. The other MFCMA violation was issued for failure to report catch. Penalties totalling $4,050 were collected for these cases.

Gear Conflicts

Eleven instances of U.S. gear losses allegedly caused by foreign fishing vessels were reported to NMFS in 1980 (Table 9). This was an increase of six over the number reported in 1979. All conflicts occurred in the Gulf of Alaska except one, which occurred in the Bering Sea. Eight of the 11 cases involved U.S. crab fishermen, who reportedly lost a total of at least 31 crab pots. In addition, two longline vessels reported loss of an undetermined amount of gear, and another vessel lost a buoy and a radar reflector. Japanese vessels were involved in five of the conflicts, with Soviet, Polish, and unidentified foreign vessels reported in the other cases.

DOMESTIC FISHERIES REVIEW

Domestic fishermen off Alaska took 16.2 percent of all U.S. landings in 1980. Alaskan catch in state and federal waters increased 14 percent to 997.9 million pounds (452,657 m.t.), but catch value declined 12 percent to $575.3 million (Figure 3). Salmon and crab led Alaska landings at 51 and 31 percent respectively. Approximately 26 percent of catch was taken in the 3-200 mile FCZ.

As in 1979, several fisheries in the 3-200 mile zone were governed by MFCMA fishery plans. Management plans continued in effect for Gulf of Alaska groundfish, Tanner crab, and salmon power troll in the Gulf of Alaska. Federal permits were required for Gulf of Alaska groundfish, with 257 permits

Figure 3 - U.S. Catch Off Alaska - 1979 and 1980

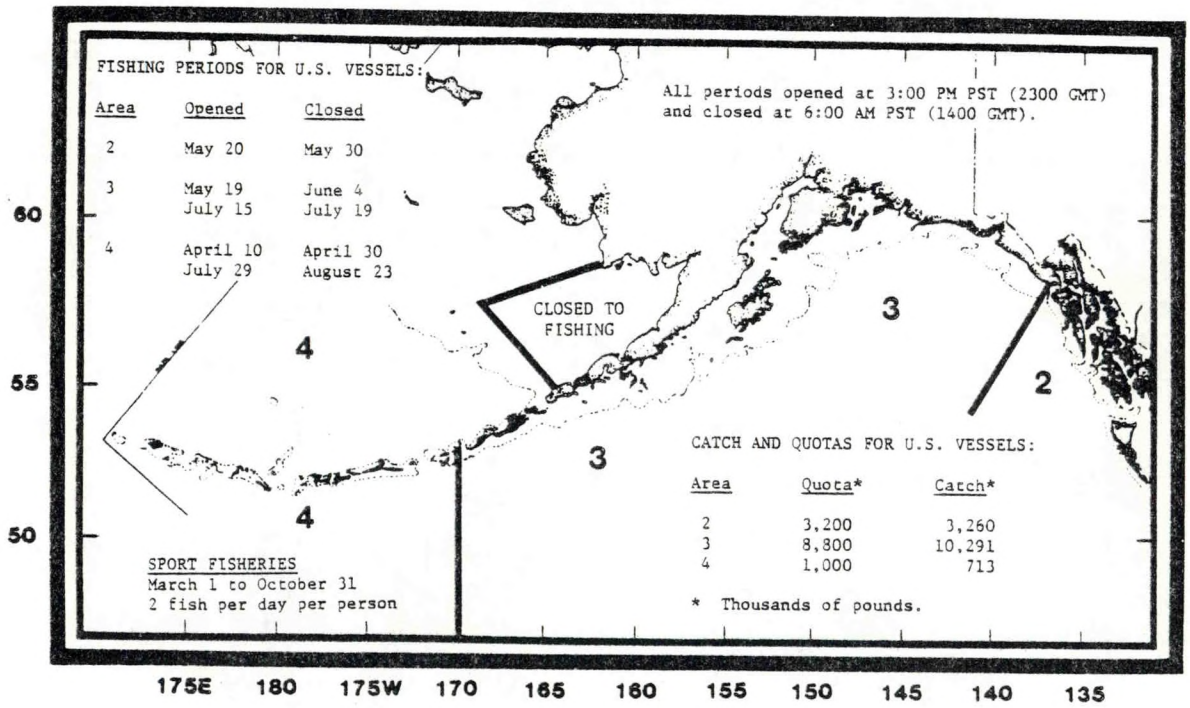
	Catch*		Value**	
	1979	1980	1979	1980
Salmon	442,954	511,714	$344,571	$268,456
King crab	149,660	185,719	148,745	191,749
Tanner crab	130,589	121,666	71,992	60,090
Herring roe	49,588	74,971	31,221	14,413
Shrimp	50,613	52,308	12,867	16,843
Halibut	15,868	14,264	33,000	13,600
Cod	3,529	12,800	956	1,494
Herring	10,978	9,323	1,488	725
Dungeness crab	6,334	5,912	4,166	3,173
Sablefish	5,123	3,644	4,247	1,429
Pollock	4,475	2,254	440	148
Scallops	25	632	69	2,129
Flounder	831	553	156	104
Rockfish	536	438	157	102
Abalone	386	250	784	418
Clams	156	152	92	79
Pacific ocean perch	230	6	28	2
Misc. finfish	1,217	1,222	288	247
Misc. shellfish	23	100	17	150
Total	873,115	997,928	$655,284	$575,351

* Thousand pounds.
** Thousand dollars.

issued by NMFS in 1980. In most cases, state registrations and licenses served as federal permits for Tanner crab and salmon power troll; in addition, two vessels without state permits qualified for and were issued federal salmon power troll permits. Other domestic fisheries, including salmon in waters other than the Gulf of Alaska, king crab, dungeness crab, and shrimp were regulated by Alaska state law.

Halibut fishing, in both state and federal waters, continued to be regulated by the International Pacific Halibut Commission (Figure 4). U.S. halibut landings off Alaska in 1980 were 14.3 million pounds, valued at $13.6 million, for an average price of $.95 per pound. This was substantially lower than the record value set in 1979, when catch was worth $33 million or an average of $2.08 per pound.

Figure 4 - U.S. Halibut Fishery - 1980

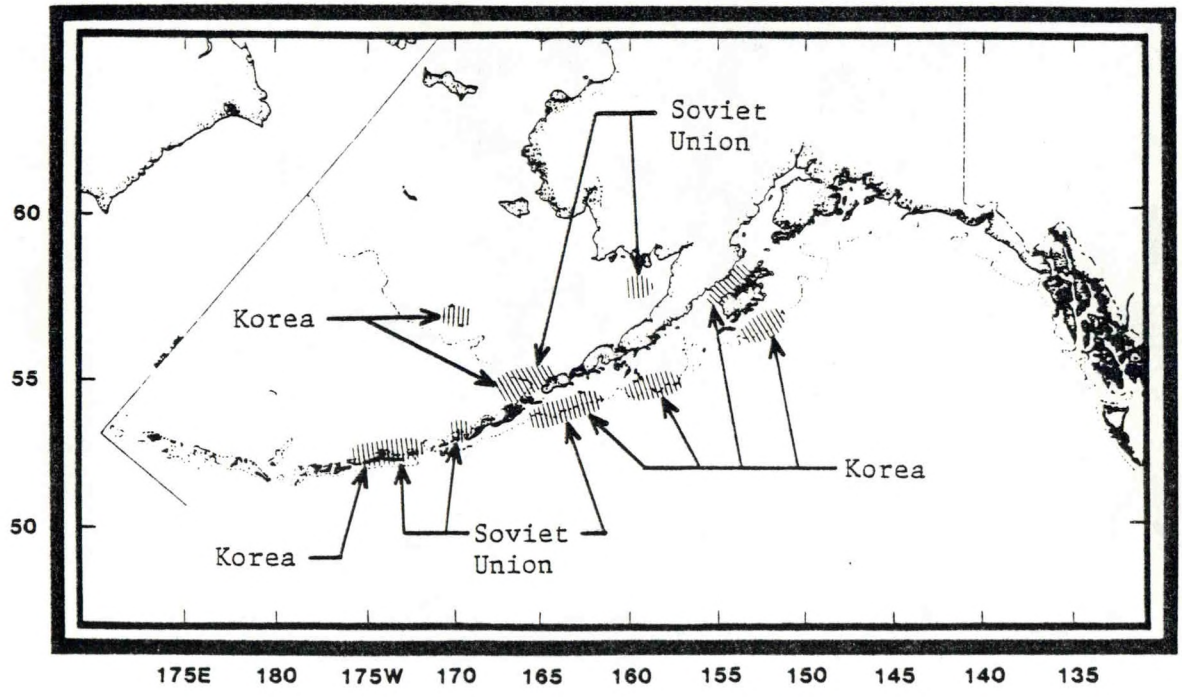


JOINT VENTURE REVIEW

As in 1979, two foreign nations, Korea and the Soviet Union, conducted joint ventures with U.S. vessels off Alaska (Figure 5 and Tables 14, 17, and 19). Operations were constant from January to early October. In 1979, joint venture activities were limited to the Gulf of Alaska. In 1980, however, operations were expanded to the Bering Sea and Aleutian Islands, where 94.5 percent of catch was taken. U.S. catch in 1980 totalled 34,482.5 metric tons and was taken by 22 U.S. trawlers. By comparison, 1979's catch of 1,507 tons was taken by five U.S. vessels. Landings were 37 percent flounders, 34 percent pollock, 26 percent Pacific cod, and 3 percent other species. Foreign participation included 14 processing vessels and 10 support vessels that operated a total of 1,117 vessel days. (Support vessels are involved in cargo and product transportation and do not work directly with U.S. vessels.)

Soviet joint venture operations began during the first week of January and continued through late September. Soviet vessels (1 factoryship, 10 processing trawlers, and 8 support vessels) worked with 10 U.S. vessels. U.S. landings supplied to Soviet vessels totalled 24,856.2 metric tons, 72 percent of total joint venture catch. Catch composition was 47 percent flounders, 29 percent Pacific cod, 20 percent pollock, and 4 percent other groundfish.

Figure 5 - Joint Venture Fishing Areas - 1980



All but 0.4 percent of catch came from the Bering Sea/Aleutians; vessels operated primarily north of Unimak Pass and also spent some time on the Bristol Bay flats, along the central Aleutians, and near the Pribilof Islands. Effort in the Gulf of Alaska occurred from Sanak Island to south of Unimak Pass.

The remaining 28 percent of U.S. joint venture catch (9,626.4 metric tons) was supplied to Korean vessels from March to early October. Target species were pollock (72 percent), Pacific cod (17 percent), and flounders (9 percent). Almost 19 percent of catch was taken in the Gulf of Alaska, primarily north and south of Kodiak Island. Bering Sea effort was concentrated north of Unimak Pass, with minor effort near the Pribilof Islands. U.S. trawlers in these operations numbered 12, while Korean vessels included one factoryship, two processing trawlers, and two support vessels.

FOREIGN FISHERIES REVIEW

Fishing off Alaska continued to be profitable for foreign vessels in 1980. Foreign vessels landed over 1.5 million metric tons (3.36 billion lbs.) of groundfish, salmon, Tanner crab, and snails in Alaskan waters. This was an increase of 3 percent over 1979, which corresponded to the 3 percent increase in effort. However, unlike catch and effort, vessel deployment decreased in 1980. A total of 624 foreign vessels operated off Alaska in 1980, 23 vessels less than the previous year. Japan, Korea, the Soviet Union, Poland, Taiwan, and West Germany deployed 448 vessels to Alaska to fish under one or more of the four MFCMA fishery management plans. The remaining 176 vessels were the Japanese high seas salmon fleet permitted under the International North Pacific Fisheries Convention.

Catch and Allocation

Foreign vessels landed 1,525,647 metric tons of fish in Alaskan waters during 1980 (Tables 11-13). This was 42,984 metric tons more than 1979. Japan continued to take most of the foreign catch and increased landings by 5 percent. Landings also increased 64 percent for Korea, 61 percent for Poland,

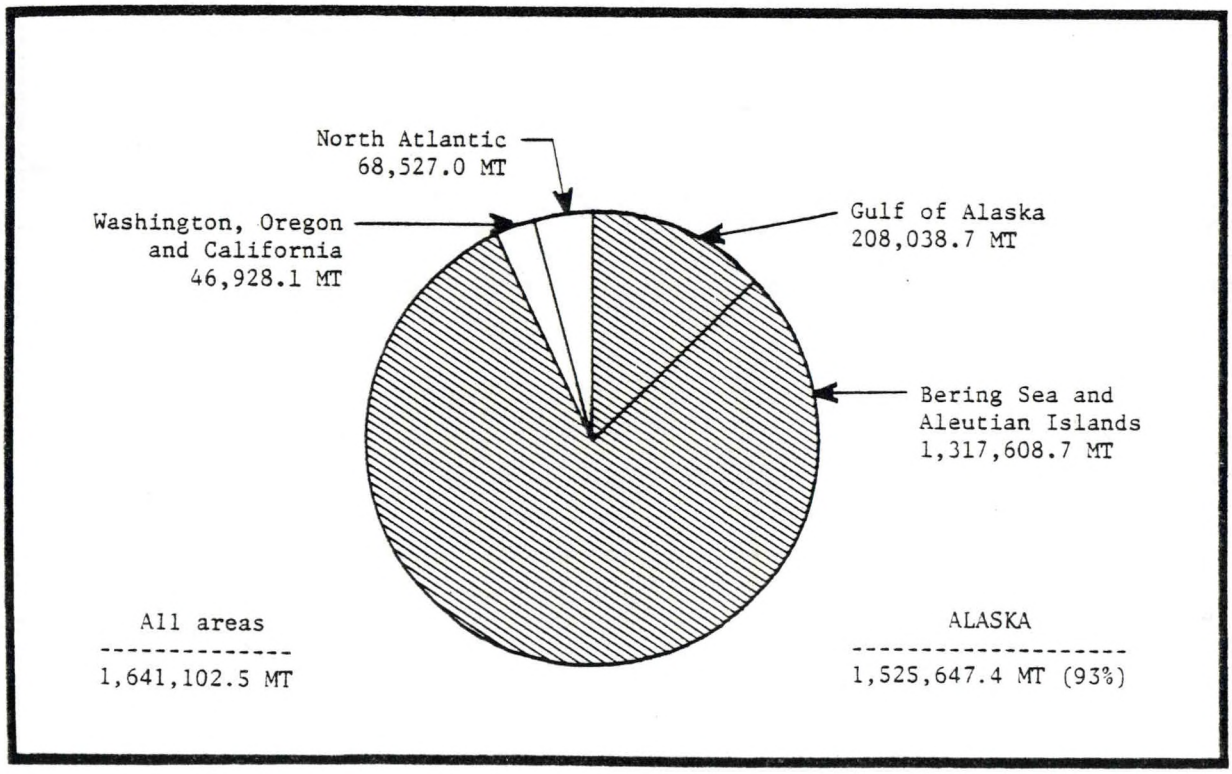


Figure 6 - Foreign Catch in U.S. FCZ - 1980

and 174 percent for Taiwan. Only the Soviet Union suffered a decrease in catch levels, down 68 percent from 1979. West Germany fished off Alaska for the first time, taking less than 1 percent of total catch.

As in past years, the majority of foreign catch was taken in the Bering Sea-Aleutian Islands area. In 1980, 86.4 percent of catch came from the Bering Sea-Aleutians, with the remaining 13.6 percent from the Gulf of Alaska. This was a slight change from the 89-11 percent split of 1979. Landings in the Bering Sea-Aleutians declined less than 1 percent from 1979, while Gulf of Alaska landings increased 27 percent. Much of this change was due to a change in effort by the Soviet Union, who reduced catch levels in the Bering Sea/Aleutians by 98 percent, but also increased catch in the Gulf of Alaska by 76 percent. See SOVIET ACTIVITIES for further detail.

Groundfish as usual dominated foreign fishing interests off Alaska and rose from 97.4 percent of total foreign catch in 1979 to 98.5 percent in 1980. Catch composition in 1980 was 73.4 percent pollock, 11.9 percent flounder, 4.7 percent Pacific cod, 2.2 percent Atka mackerel, and 1.6 percent rockfish. Sablefish, squid, snails, salmon, and Tanner crab each were 1 percent or less of total catch. Catches of all species declined, except for pollock, rockfish, and Pacific cod. Herring catches faced a major reduction as herring was declared a prohibited species after February 8, 1980.

Foreign nations fishing Alaskan waters were allocated 1,848,668 metric tons of fish and shellfish for the 1980 fishing season (Table 10). These allocations covered January 1-December 31, 1980 for the Bering Sea and Aleutians, and November 1, 1979-October 31, 1980 for the Gulf of Alaska. Total allocations increased 5.7 percent, or 100,065 metric tons, over the previous year, with Bering Sea/Aleutian allocations up by 5 percent and Gulf of Alaska allocations up by 9 percent. Only the Soviet Union was subject to a reduced allocation, down by 252,138 metric tons or 77 percent. All other nations were given larger allocations, including an increase of 19 percent (220,150 m.t.) for Japan, 56 percent (87,103 m.t.) for Korea, 88 percent (48,971 m.t.) for Poland, and 45 percent (2,802 m.t.) for Taiwan. West Germany was given a first-time allocation of 16,484 metric tons.

Vessel Effort

The number of days foreign vessels spent off Alaska in 1980 (Tables 15, 16, and 21) was increased by 3 percent over 1979 to 76,120 days. The distribution of effort between the Bering Sea/Aleutians and Gulf of Alaska changed slightly, from an 87-13 percent split in 1979 to an 86-14 split in 1980. As with catch and allocations, all nations except the Soviet Union spent more days off Alaska in 1980. The Soviet Union decreased total effort by 43 percent, while increases in effort by Japan, Korea, Poland, and Taiwan ranged from 5 to 101 percent.

Effort was distributed between vessel types in patterns similar to previous years. Effort by independent trawlers was half of the total, and increased 6 percent over 1979 levels. Groundfish factory fleets maintained effort at 20 percent of total effort, and increased vessel days by 5 percent. Long-liners also increased effort by 5 percent over 1979 and were responsible for 7 percent of total effort in 1980. As in 1979, shellfish vessels operated by Japan experienced reductions as well as expansion. Crab factory fleets decreased effort by 74 percent, while independent crab pot vessels increased effort 51 percent. Following an 84 percent decrease from 1978 to 1979, effort by snail pot vessels declined another 63 percent in 1980, to a total of only 50 days. Joint venture activities accounted for 1.5 percent of total effort in 1980, while only 0.2 percent of effort in 1979.

Figure 7 - Foreign Effort Off Alaska
by Month - 1979 and 1980

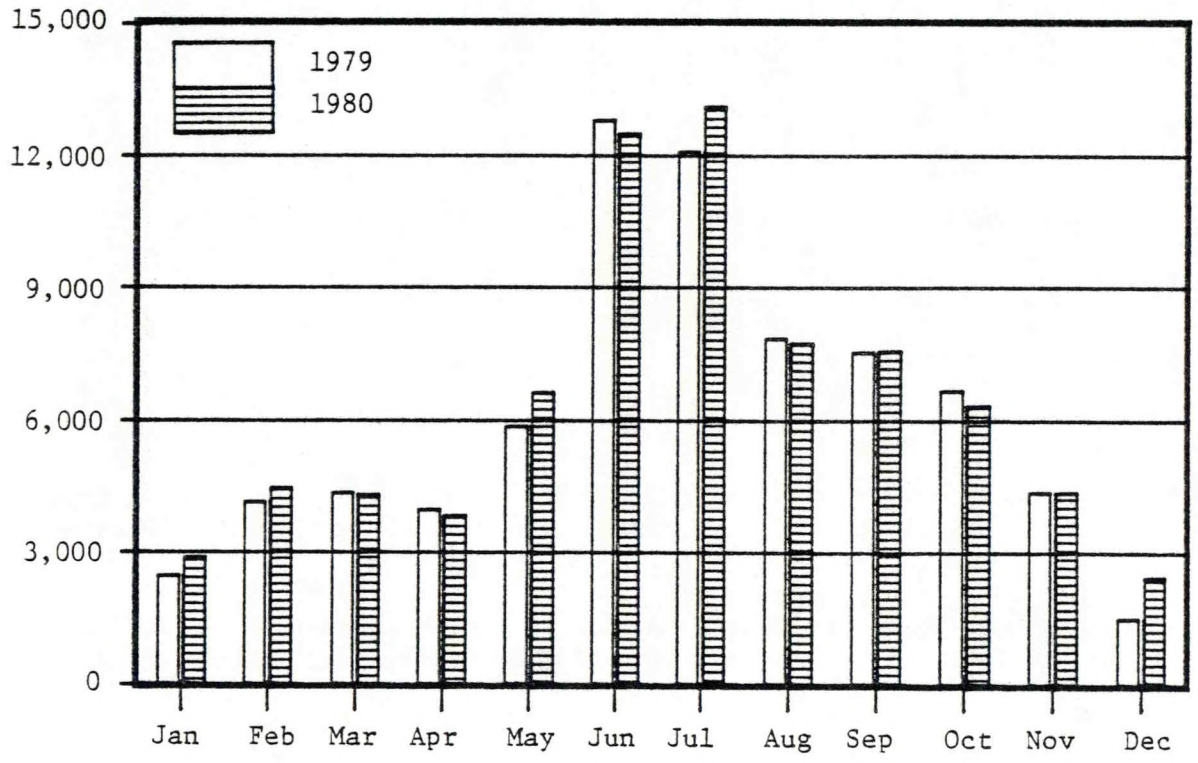
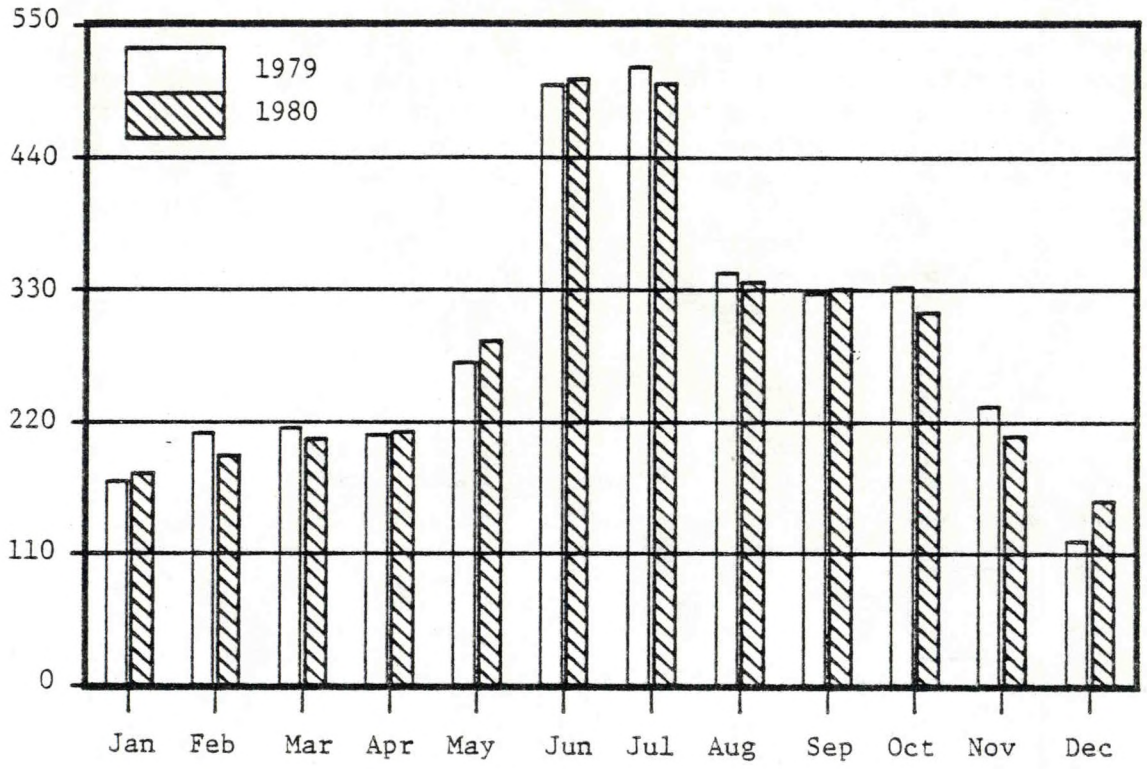


Figure 8 - Number of Foreign Vessels Off Alaska
by Month - 1979 and 1980



Vessel Fees

Foreign vessels paid over $14.5 million in fees in 1980 to catch, process, and transport groundfish and shellfish taken from Alaskan waters (Figure 10). As in 1979, fees were divided into two categories:

1. Catch fees - Poundage fees assessed on a species-by-species basis. 1980 fees were determined by an index based on ex-vessel values of U.S. and foreign commercial landings in 1979.

2. Vessel fees - Permit fees assessed for each vessel, whether it is utilized or not. As in 1979, there were three types of vessel fees:

   a. Fishing vessels - assessed $1.00 per gross ton.
   b. Processing vessels - assessed $.50 per gross ton up to a maximum of $2,500.
   c. Support vessels - $200 per vessel.

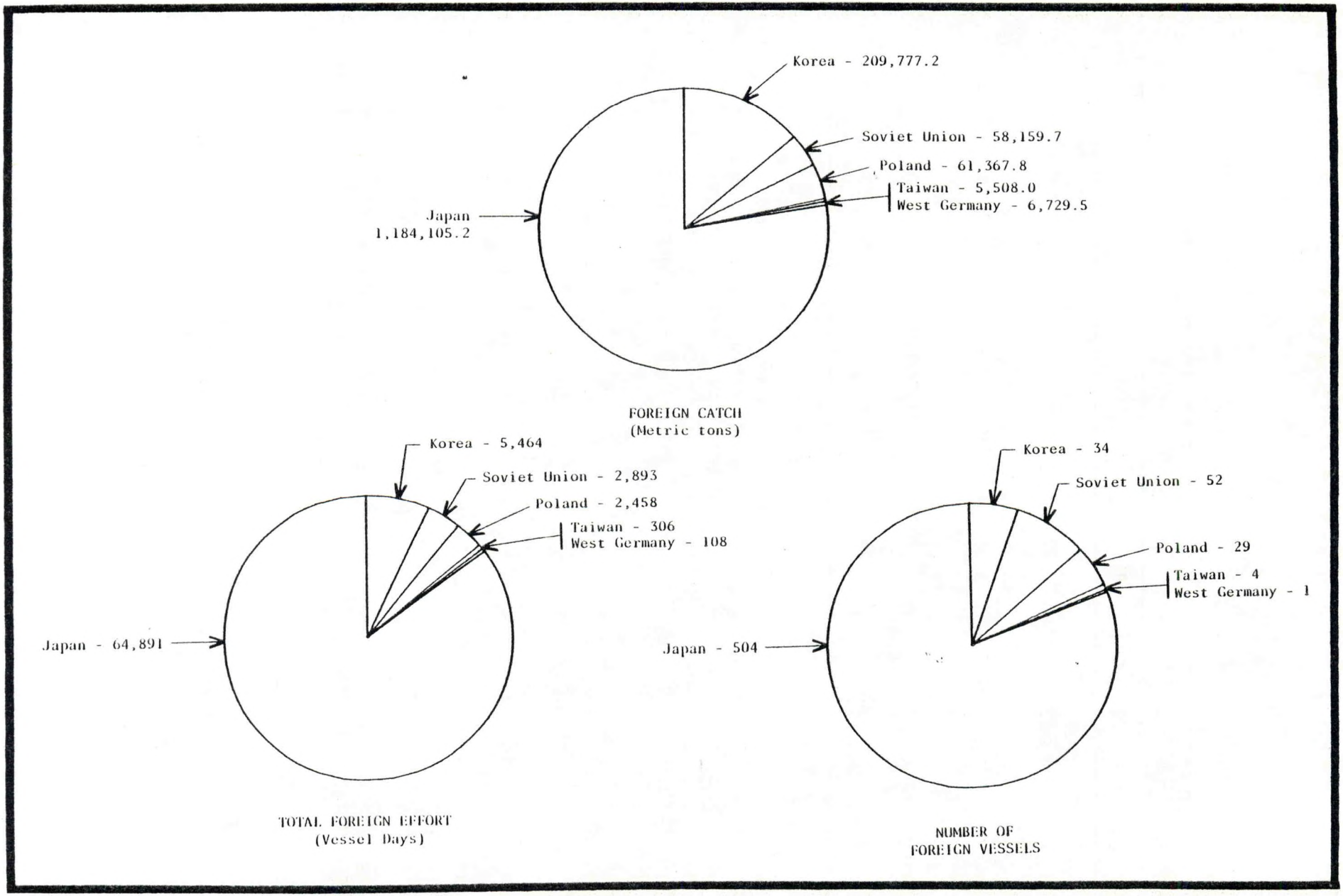


Figure 9 - Foreign Effort, Catch, and Number of Vessels
Off Alaska - 1980

Figure 10 - Foreign Vessel Fees Off Alaska - 1979 and 1980

	Catch Fees		Vessel Fees	
	1979	1980	1979	1980
Japan	6,787,229	10,725,575	215,302	230,656
Korea	883,131	1,860,631	65,654	75,016
Soviet Union	1,559,713	440,928	232,069	207,809
Poland	183,902	848,184	35,747	65,104
Taiwan	14,022	45,266	7,803	6,395
Mexico	77,263	0	4,853	0
West Germany	0	55,786	0	3,183
Total	9,505,260	13,976,370	561,428	588,163

All foreign nations except the Soviet Union paid more to fish in Alaskan waters in 1980, with total fees up by 45 percent, or $4,497,845, from 1979. Catch fees alone increased 47 percent while vessel fees rose 5 percent. Japan paid 75 percent of total fees, followed by Korea (13 percent), Poland (6 percent), and the Soviet Union (4 percent). West Germany and Taiwan each paid less than 1 percent of total fees.

Fisheries Research

As in previous years, vessels from other nations were authorized to conduct research in U.S. waters (Table 22). A total of 19 foreign vessels participated in 1980, including 13 Japanese, 5 Soviet, and 1 Korean vessel. Pot, longline, trawl, and gillnet gear were used by these vessels to survey groundfish, salmon, crab, and snail resources.

All research was conducted either through cooperative efforts between U.S. and foreign scientists, or under the International North Pacific Fisheries Convention. The activities of approved research vessels are exempt from MFCMA limitations including permit requirements, if certain conditions, such as the following, are met:

1. Research plans must be provided for review to determine if the research will contribute to conservation and management of the stocks. Research plans contain such information as a description of the vessel and its scientific party, the vessel's itinerary and area of operations, and a description of the methods to be used.

2. At the option of the U.S., provision must be made for U.S. participation in or observation of the proposed research.

3. Copies of data collected and scientific results must be provided to the appropriate NMFS fisheries center.

4. Estimates of the amount of catch, and plans for its disposition, must be provided in the plan and documented fully at the conclusion of the research. No retention of prohibited species (salmon, halibut, and crab) is allowed.

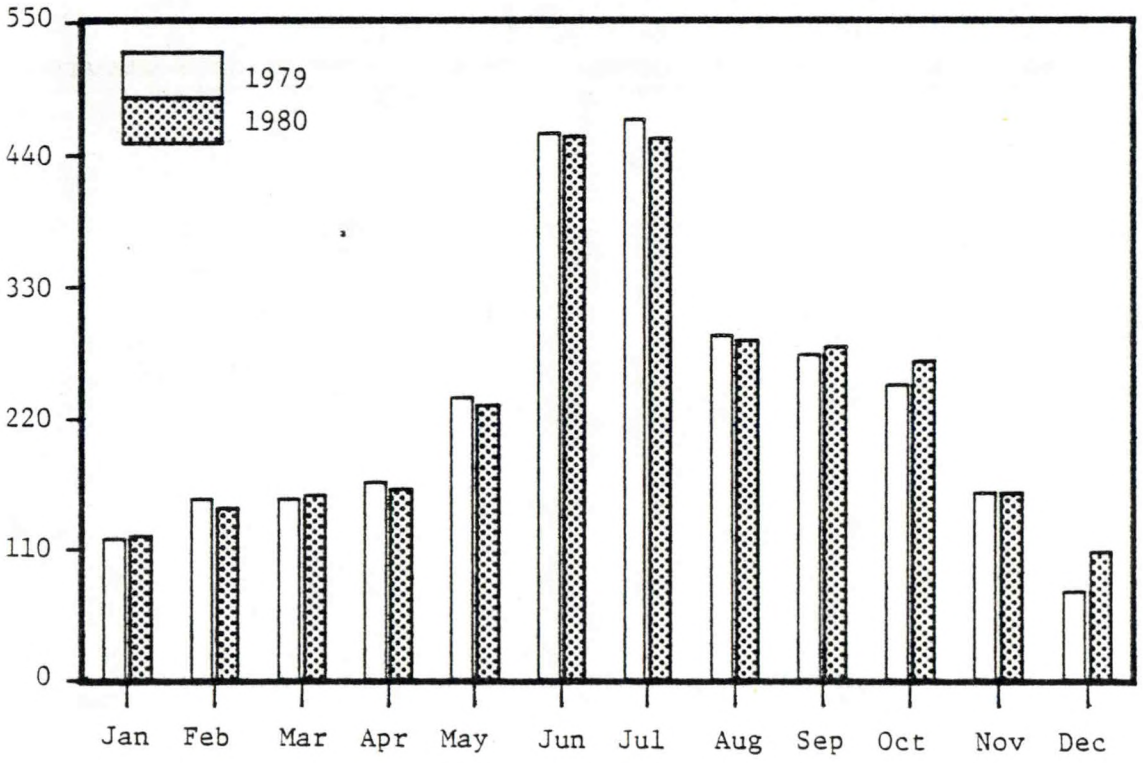
Other conditions include vessel identification, position reporting, and restrictions on vessels that also participate in commercial fishing.

JAPANESE FISHING ACTIVITIES

Japan again dominated foreign nations fishing off Alaska in 1980 by landing 1,184,105.2 metric tons (2.61 billion lbs.) in 64,891 vessel days. Japanese catch (78 percent of total foreign catch) and effort (85 percent of total foreign effort) both increased 5 percent over 1979. Nine percent of Japan's catch was taken from the Gulf of Alaska and 91 percent from the Bering Sea and Aleutian Islands. Pollock was 73.5 percent of Japanese catch, with flounders at 12 percent and Pacific cod at 5 percent. Other fisheries were directed at Tanner crab, snails, and salmon.

Japan sent 504 vessels to Alaska in 1980, four vessels less than 1979. Included were 5 pollock factoryships and 1 yellowfin sole factoryship, accompanied by 62 pair trawlers, 17 Danish seiners, and 13 medium trawlers. Japan also utilized 102 medium trawlers, 23 large trawlers, 22 longliners, 1 crab factoryship with 4 crab pot vessels, 14 independent crab pot vessels, 1 snail pot vessel, 4 salmon factoryships with 172 gillnet vessels, 58 transport vessels, and 5 tankers (Appendix 3). The Japanese fleet ranged in number from 108 to 455 vessels per month (Figure 11). This fleet utilized 64,891 effort days, 2,937 days more than 1979.

Figure 11 - Number of Japanese Vessels Off Alaska by Month - 1979 and 1980



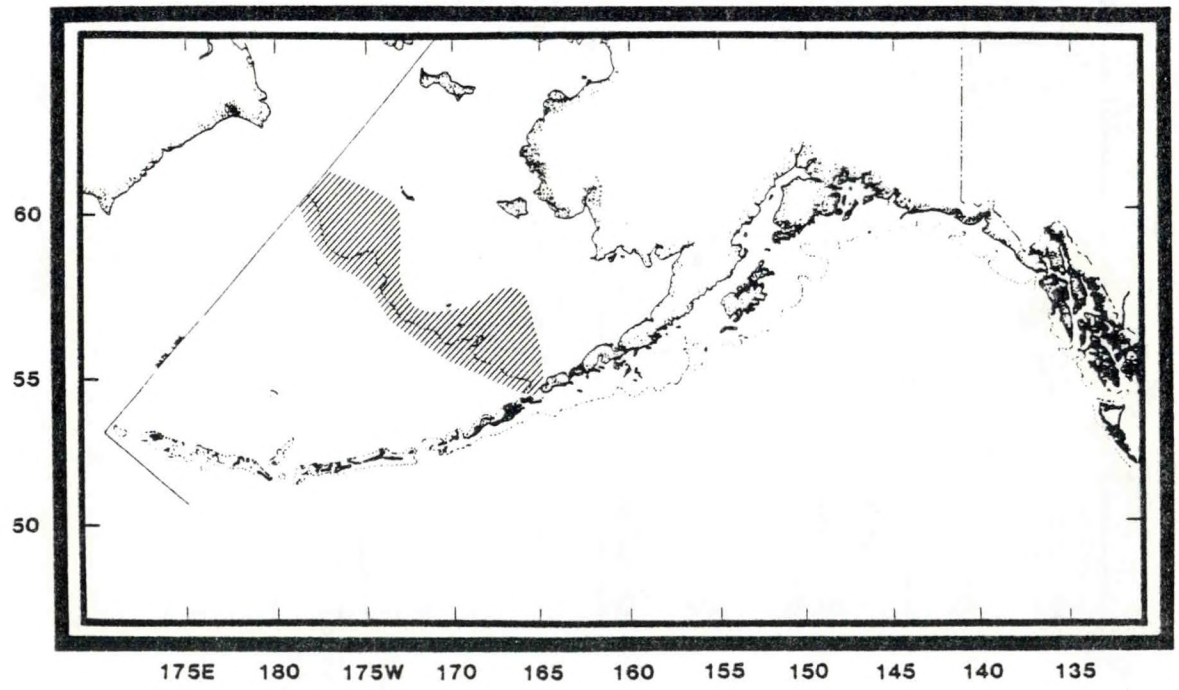
Bering Sea-Aleutian Islands Trawl Fishery

Japan's 1980 trawl effort in the Bering Sea and Aleutian Islands totalled 41,017 days, 71 percent of all Japanese effort off Alaska. The total groundfish catch by trawl vessels in this area was 1,041,838.7 metric tons, 33,522.7 tons more than 1979. These landings were 88 percent of Japan's Alaska catch. Japan utilized a total of 222 factory fleet vessels and independent trawlers to take groundfish, with the number of vessels present per month varying from 82 to 198. The prime fishing months were May to October when up to six factory fleets and 102 independent trawlers fished the Bering Sea/Aleutian Islands region.

Factory Fleets

Up to six groundfish factory fleets fished the central and eastern Bering Sea from April to November (Figure 12). The five pollock fleets and one flounder fleet included 6 factoryships, 62 pair trawlers, 17 Danish seiners, and 13 medium stern trawlers. The size of each pollock fleet ranged from 10 to 22 catcher vessels, while the flounder fleet was composed of 7 catcher vessels. The 1980 mothership effort began on the last day of April and ended after the first week of November. Effort by these fleets increased 5 percent over 1979 to 15,300 days.

Figure 12 - Japanese Factoryship Fishing Areas - 1980

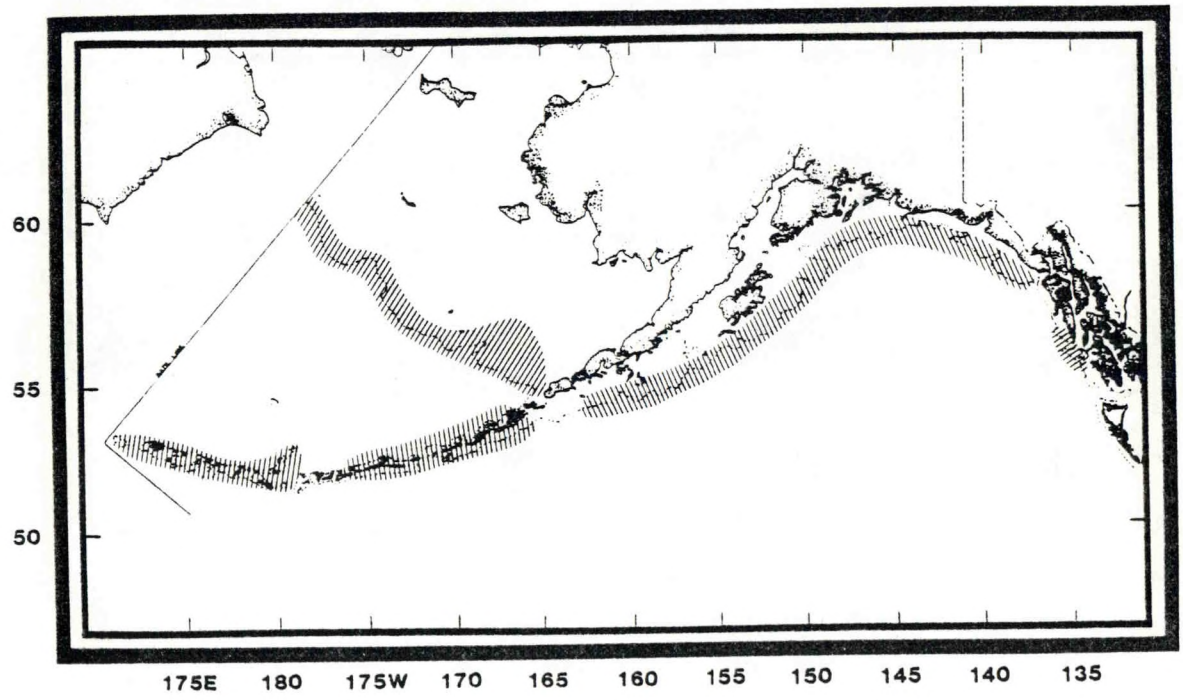


The flounder fleet conducted operations on the Continental Shelf flats northeast of the Pribilof Islands. Its catch of 38,589.5 metric tons was 94 percent yellowfin sole and other flounders. The pollock fleets fished all along the 100-fathom edge from the north central Bering Sea to Unimak Pass. Pollock was 93 percent of their 510,210.8 metric ton landings. In total, factoryship fleets landed 46 percent of Japanese catch, while using only 24 percent of effort.

Independent Trawlers

A total of 124 large and medium stern trawlers were dispatched to the Bering Sea and Aleutian Islands during 1980 (Figure 13). Large surimi factory trawlers concentrated their effort in the north central Bering Sea and between Unimak Pass and the Pribilofs; medium trawler effort was distributed throughout the entire Bering Sea/Aleutian area. From 82 to 107 trawlers operated each month, with concentrations in excess of 100 vessels from February to June and in November. Effort by trawlers in the Bering Sea/Aleutians reached 28,817 days in 1980. This exceeded 1979 levels by 11 percent and yielded a total catch of 493,038 metric tons. Catch composition was 72 percent pollock, 15 percent flounders, and 13 percent Pacific cod and other species. Landings taken by independent trawlers were 6 percent higher than last year and 42 percent of total Japanese catch in 1980.

Figure 13 - Japanese Independent Trawler Fishing Areas - 1980



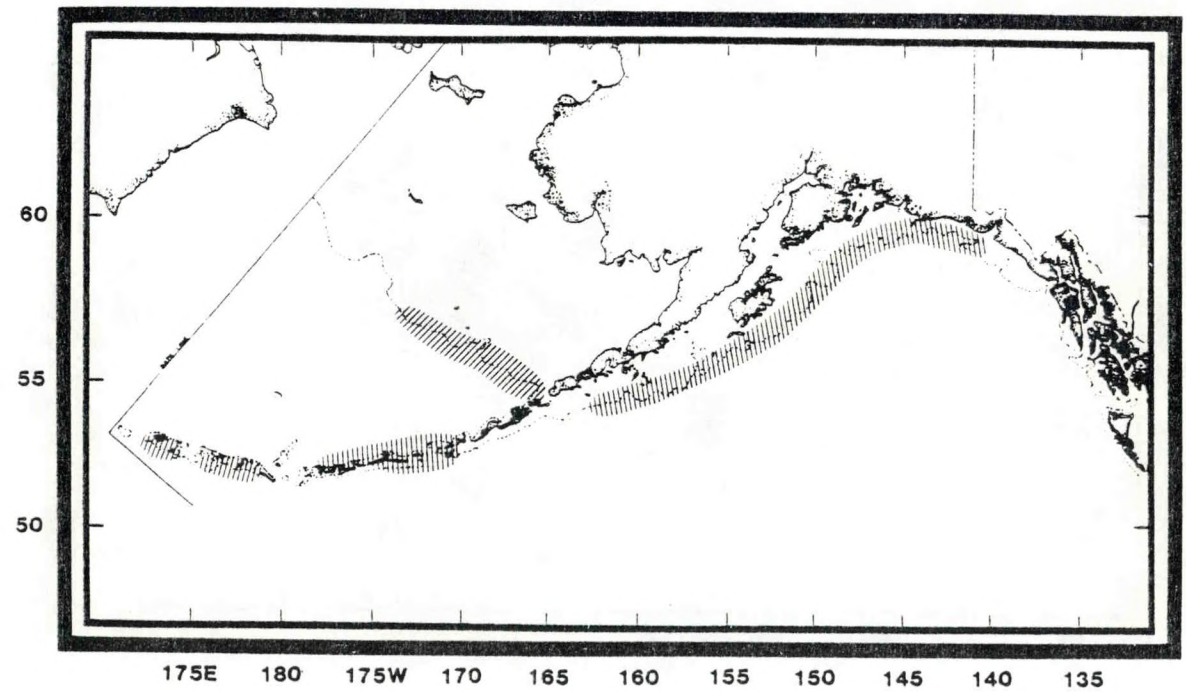
Gulf of Alaska Trawl Fishery

Groundfish landings made by Japanese trawlers in the Gulf of Alaska in 1980 were up 28 percent over 1979 levels to 71,732 metric tons. This catch was taken in 3,100 days by 22 independent trawlers that fished from Sanak Island to southeast Alaska (Figure 13). Gulf of Alaska landings were composed of 52 percent pollock, 20 percent rockfish, 16 percent flounders, and 12 percent miscellaneous species including Pacific cod and Atka mackerel. Effort was heaviest June to November with 15 to 22 vessels operating per month; one to four vessels operated during all remaining months except April, when no trawlers operated in the Gulf. In total, Japanese trawlers in the Gulf of Alaska landed 6 percent of Japan's catch with 4 percent of Japanese effort.

Longline Fishery

1980 was a year of remarkable achievement for Japanese longliners off Alaska's coast (Figure 14). Catch increased by 89 percent to 47,940 metric tons with only a 6 percent increase in effort to 5,004 days. Catch rates increased from 5.3 metric tons per day in 1979 to 9.6 tons per day in 1980, as Japan's 22 longliners continued to direct less effort toward sablefish and more effort to relatively abundant Pacific cod stocks. Pacific cod made up 51 percent of longliner landings in 1979; in 1980, Pacific cod was 70 percent

Figure 14 - Japanese Longliner Fishing Areas - 1980



of catch, followed by sablefish at 11 percent, flounders at 9 percent (primarily from the Bering Sea), and 10 percent other species. Longliners were present off Alaska during every month of 1980, ranging from 15 to 21 vessels per month.

Longliners spent 74 percent of their time (3,701 vessel days) in the Gulf of Alaska, taking 75 percent of catch (36,241 metric tons) in that area. Catch in the Gulf of Alaska was 125 percent higher than in 1979. Vessels fished from Sanak Island to the Yakutat fishing grounds, remaining west of 140° W. as required by MFCMA regulations. Effort in the Gulf of Alaska was steady throughout the year, with peaks during May-June and September-October.

Although not at the notable rate of the Gulf of Alaska, Bering Sea/Aleutian catches also increased, by 27 percent to 11,699 metric tons. Effort was heaviest in May and November-December when 19 vessels operated; from 1 to 14 vessels operated during other months. Vessels fished primarily in the eastern Bering Sea from northwest of the Pribilofs to Unimak Pass, or along the eastern Aleutians. Minor effort occurred further west along the Aleutian chain.

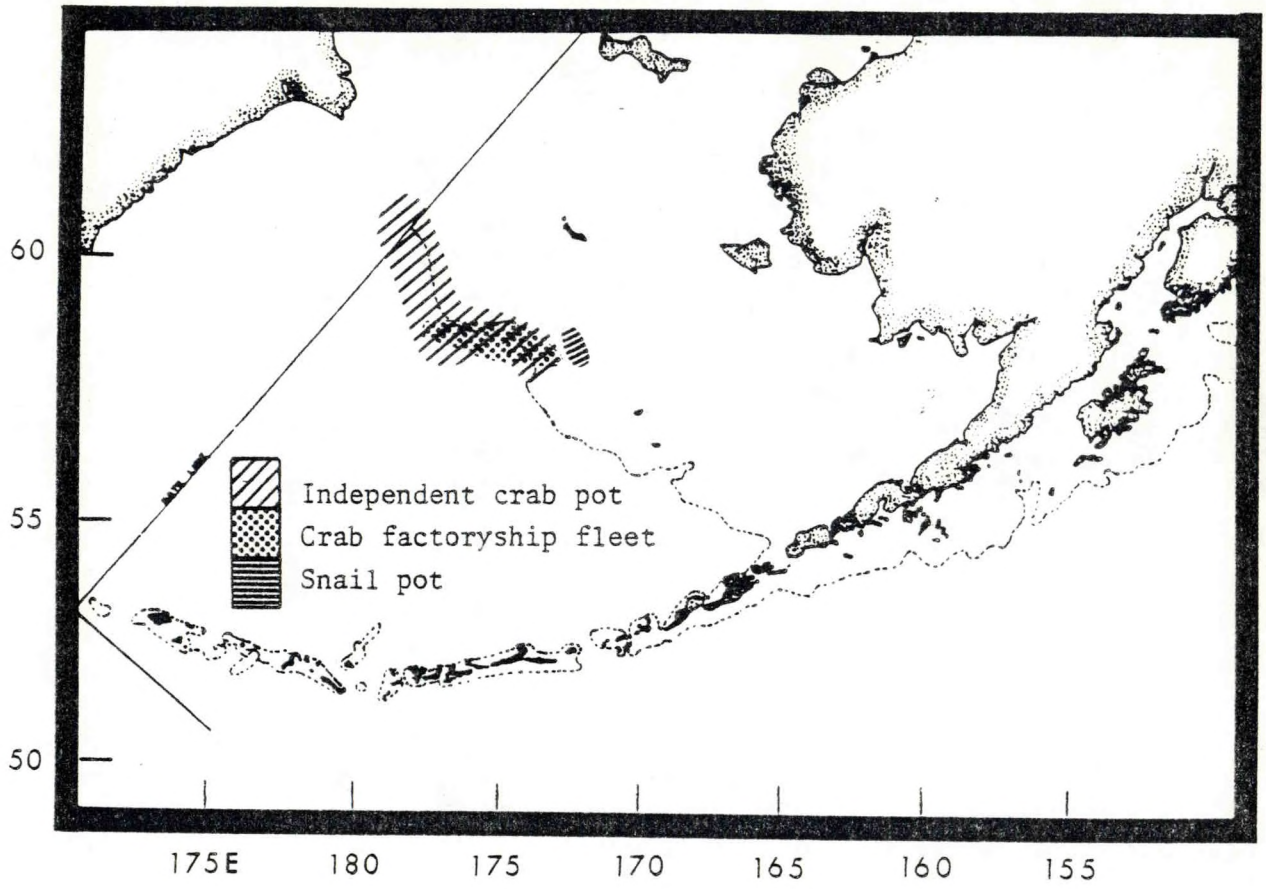
Tanner Crab Fishery

1980 was the final year for the Japanese Tanner crab fishery off Alaska (Figure 15 and Table 23). Foreign participation in this fishery was phased out as U.S. fishermen increased their harvest of Tanner crab. The allocation normally given to Japan's pot vessels was cut in half in 1980 to 7,500 metric tons. Japan deployed only one factory fleet to the Bering Sea in 1980, unlike previous years when two fleets were used. Fourteen independent crab pot vessels were also utilized. Over 11.7 million Tanner crab were landed in 1.35 million pot lifts for an average of 8.7 crab per pot, down from the 10.2 rate of 1979.

Operations by independent crab pot vessels began in March and ended in late September. Two to 14 vessels were present per month during that time, with all 14 vessels operating during May and June. Effort increased by 51 percent from 1979 to 1,644 days and yielded a catch of 4,200 metric tons, 23 percent higher than last year. This resulted in a catch rate of 2.55 metric tons per vessel day, down from the 1979 rate of 2.96. Independent vessels operated along the 100-fathom edge in the north central Bering Sea from 58° N. to 61° N.

The crab fleet vessels confined themselves to a smaller portion of the Bering Sea, fishing between 58° and 59° N. latitude. The crab mothership, accompanied by four pot vessels, began operations on February 23 and ended August 9, similar to last year. With effort cut by 74 percent from 1979, these vessels landed only 2,894 metric tons, compared to 11,729 tons taken the previous year. However, catch rates did improve slightly for the factory fleet, from 5.14 metric tons per catcher vessel per day in 1979 to 5.24 in 1980.

Figure 15 - Japanese Crab and Snail Fishing Areas - 1980



Snail Fishery

Japan's already small snail fishery was reduced even further in 1980. Eight snail pot vessels were used in 1978, and two in 1979. Only one snail pot vessel was deployed to Alaska in 1980, fishing from mid-July through August. During its 50-day operation, the vessel landed 57.3 metric tons of snails in the central Bering Sea west of the crab factory fleet (Figure 15). That was a 63 percent reduction in effort and 89 percent reduction in catch from 1979.

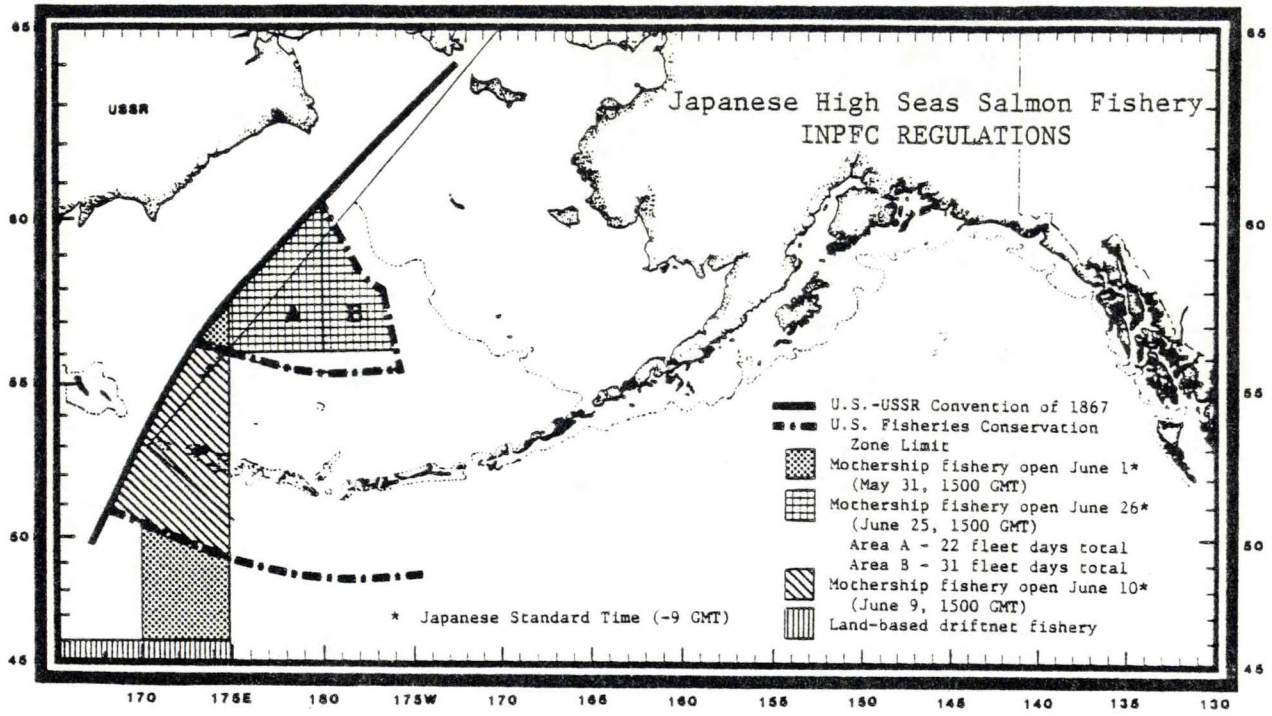
Salmon Fishery

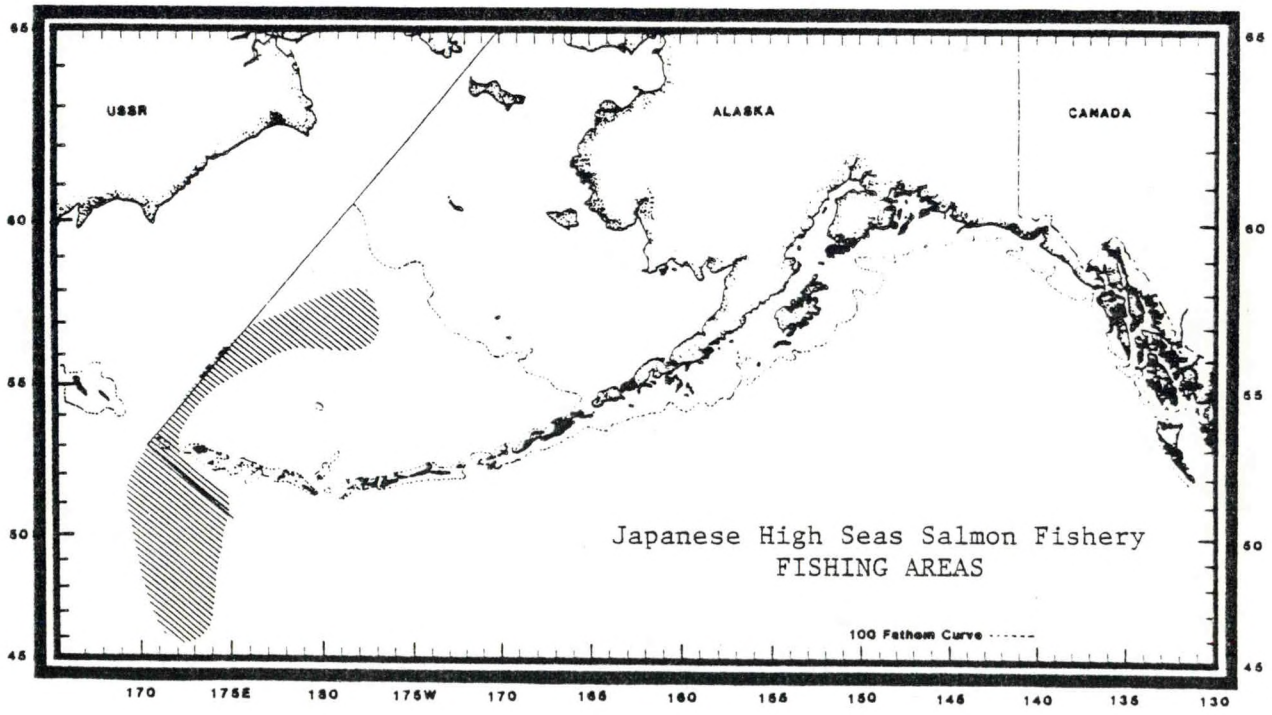
Japan deployed a high seas salmon mothership fleet to Alaskan waters composed of 4 factoryships, 172 gillnet catcher vessels, and an array of support vessels, similar to 1978 and 1979 levels (Appendix 4). INPFC and Japan-Soviet agreements continued to regulate the high seas fishery in the

North Pacific without change from 1979. INPFC regulations define fishing areas and seasons, while the Japan-Soviet agreement deals with catch limits, gear restrictions, vessel quotas, and enforcement provisions. The total salmon quota in 1980 was 42,500 metric tons as in 1979. Of this, only 23,500 metric tons could be taken outside the U.S., Soviet, and Japanese 200-mile fishery zones, and a maximum of 19,000 metric tons inside the U.S. and Japanese zones. These quotas cover both mothership fleets and land-based driftnet vessels; however, as only mothership fleets are allowed to fish inside the U.S. FCZ, they alone are discussed in this report (Figure 16).

The 1980 mothership salmon catch was almost identical to 1979, although fishing lasted a week longer. A total of 10,560 vessel days were used to land a catch of 15,442 metric tons, 99.6 percent of the 15,500 tons allocated to Japanese motherships. Fleets began fishing outside the U.S. FCZ south of the western Aleutians when that area opened on June 1. Vessels moved further north on June 10 as the area south of the Aleutians inside the U.S. FCZ opened, and remained there through the end of June. By July 8, all fleets had moved to the central Bering Sea outside the U.S. zone, spending 9-12 days per fleet in that area. Each fleet returned south of the Aleutians by July 20, and fished there until the end of the season on July 31.

Figure 16 - Japanese Salmon Regulations and
Fishing Areas - 1980

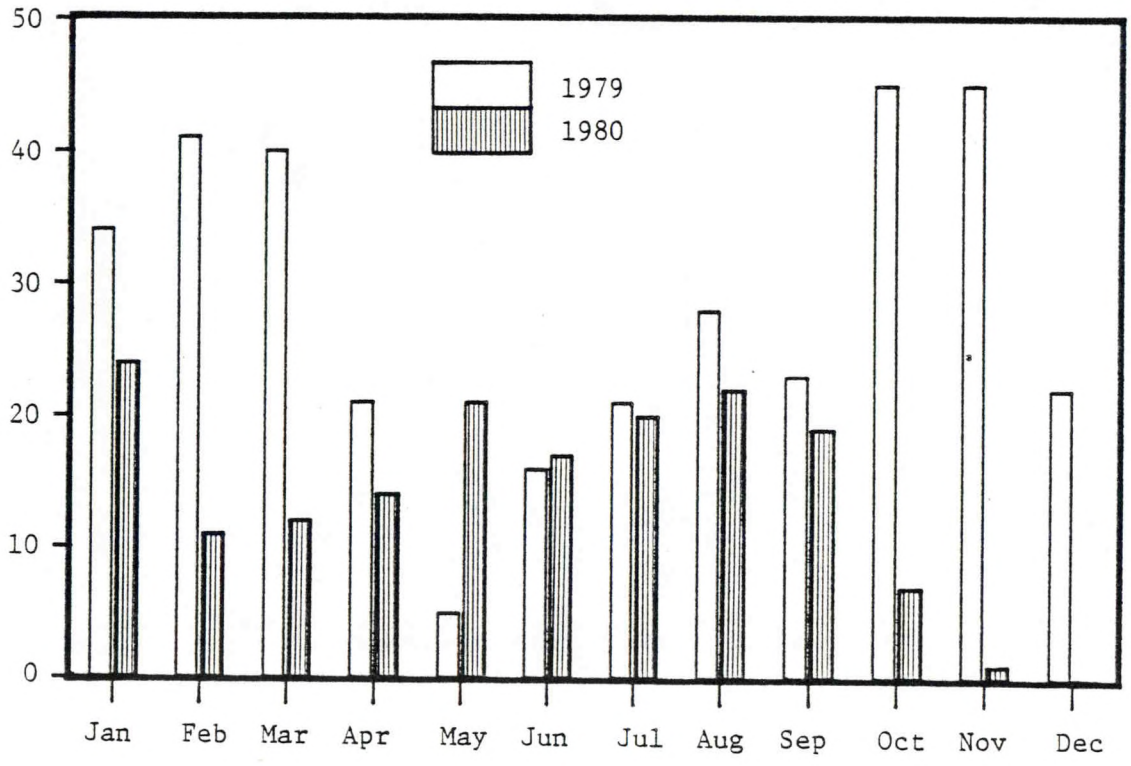




SOVIET FISHING ACTIVITIES

In 1980, the Soviet Union fell from its rank as the number two foreign fishing power off Alaska to position four, behind Korea and Poland. On January 7, following the Soviet invasion of Afghanistan, severe curtailments were placed on Soviet fishing within the U.S. FCZ. Allocations for the Bering Sea and Aleutians that had gone into effect on January 1 were revoked, and all Soviet fishing vessels were required to depart those areas promptly. Soviet fishing in the Gulf of Alaska was permitted to continue until the allocation released in November 1979 was exhausted. These restrictions on Soviet fishing resulted in a 68 percent decrease in their catch to 58,159.7 metric tons (128 million lbs.). However, Soviet vessels involved in joint venture activities with U.S. vessels were allowed to continue operations in all areas. This was a benefit to U.S. fishermen, as joint venture catches jumped from slightly over 100 metric tons in 1979 to almost 25,000 tons in 1980.

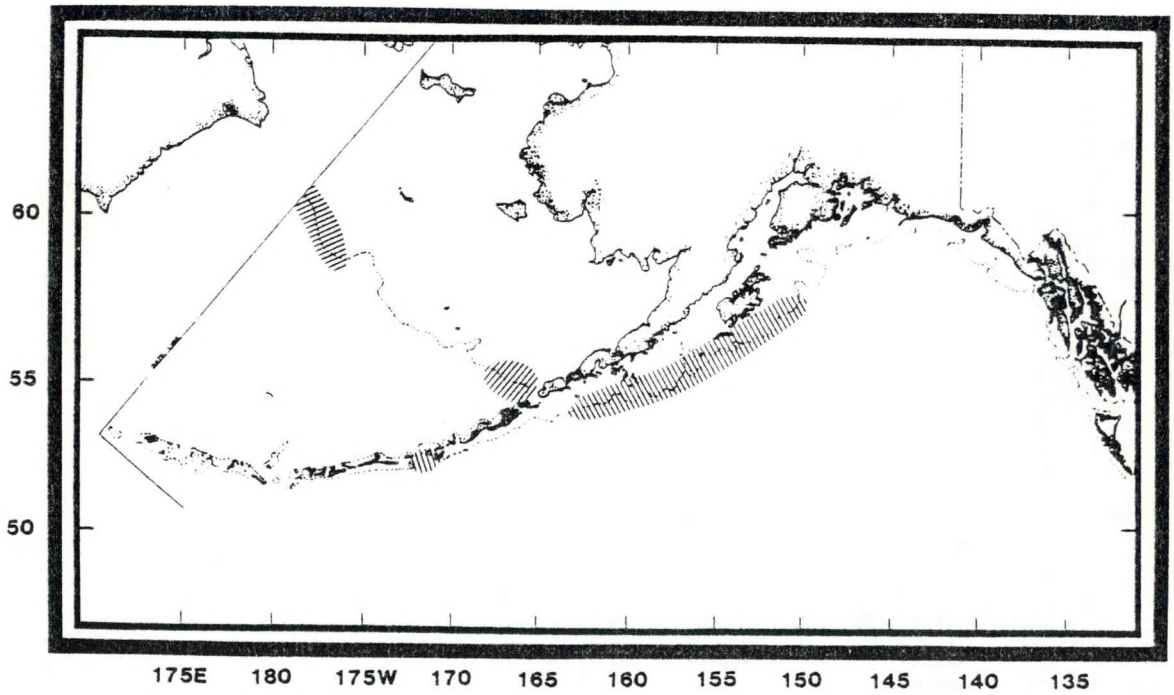
Figure 17 - Number of Soviet Vessels Off Alaska by Month - 1979 and 1980



Soviet fishing vessels took only 3.8 percent of total foreign landings in 1980, compared to 12.3 percent in 1979 and 18 percent in 1978. Target species were pollock and Atka mackerel, which respectively comprised 67 and 20 percent of catch. The remaining 13 percent included Pacific cod, flounders, rockfish, and other groundfish. Landings decreased 98 percent in the Bering Sea/Aleutians, while Gulf of Alaska catches increased 76 percent. As a result, 94 percent of Soviet catch came from the Gulf of Alaska and only 6 percent from the Bering Sea/Aleutians, a major reversal from the 17-83 percent split of 1979.

The 1980 Soviet fleet of 52 vessels included 39 stern trawlers, 1 factory-ship, 9 transport vessels, and 3 tankers (Appendix 5). These vessels operated a total of 2,893 days off Alaska, a 43 percent decrease in effort from 1979. It should be noted, however, that 26 percent of this effort was directed at joint venture operations. The number of vessels present per month ranged from 0 to 24, with Soviet vessels present off Alaska during every month except December (Figures 17 and 18).

Figure 18 - Soviet Fishing Areas - 1980



Bering Sea-Aleutian Islands Trawl Fishery

Soviet fishing patterns in the Bering Sea and Aleutian Islands area were obviously disrupted in 1980. A catch that totalled 150,766 metric tons in 1979 was reduced to only 3,556.7 metric tons in 1980. This catch was taken by 19 large stern trawlers in 110 vessel days during the first 10 days of January. All Soviet fishing in the Bering Sea and Aleutians was discontinued after January 10. Pollock and Atka mackerel were 61 and 26 percent of Soviet catch, with almost a third of catch taken south of Amlia and Seguam Islands in the central Aleutians. The remaining landings came from the north central Bering Sea northeast of the Pribilof Islands.

Gulf of Alaska Trawl Fishery

Soviet fishing effort in the Gulf of Alaska more than doubled over 1979, with 22 trawlers and 11 support vessels operating a total of 2,019 days. This resulted in a 76 percent increase in catch, to 54,603 metric tons (120.4 million lbs.). The Soviets landed over 74 percent of their Gulf of Alaska allocation before the Gulf of Alaska allocation year ended on October 31, making the remainder of that quota unavailable to the Soviets.

As in 1979, pollock and Atka mackerel were a substantial part of Soviet Gulf of Alaska landings (68 and 19 percent respectively). The remaining 13 percent included Pacific cod, flounders, rockfish, and other groundfish. Catches of all species were increased over 1979 levels, although increases to Atka mackerel and rockfish landings were minor.

Soviet fishing in the Gulf of Alaska was begun by four trawlers in February and increased to seven trawlers in March. Effort was heaviest from April to September, with 10-14 vessels present each month. Six vessels fished in October, finishing operations by mid-month. Soviet vessels fished from Sanak Island to Kodiak Island, with effort concentrated south of the Shumagin Islands and south of Kodiak Island.

KOREAN FISHING ACTIVITIES

With effort substantially increased for the third year in a row, the Republic of Korea moved into position as the number two foreign fishing power off Alaska, although restrictions against the Soviet Union were a major factor in the occurrence of this event. In 1980, Korean vessels landed 209,777.2 metric tons (462.5 million lbs.) using 5,106 vessel days. This catch was twice the size of their 1978 catch, and 64 percent higher than 1979. Joint venture operations with U.S. vessels accounted for 358 additional vessel days and a catch of 9,626.4 metric tons.

Landings by Korean vessels increased 81 percent in the Bering Sea/Aleutians and 7 percent in the Gulf of Alaska, for a total 64 percent increase over 1979 levels. Almost 85 percent of catch was taken from the Bering Sea and Aleutians. Pollock landings, which were 86 percent of catch in 1979, were only 66 percent of catch in 1980. The remaining 34 percent included flounders, Atka mackerel, Pacific cod, and various other groundfish species. Landings of all species except herring increased over 1979, with the most notable increases to flounders (up 702 percent) and Atka mackerel (up 119 percent). Korea provided 13.7 percent of total foreign landings off Alaska in 1980, up from its 8.6 percent share in 1979.

Figure 19 - Number of Korean Vessels Off Alaska by Month - 1979 and 1980

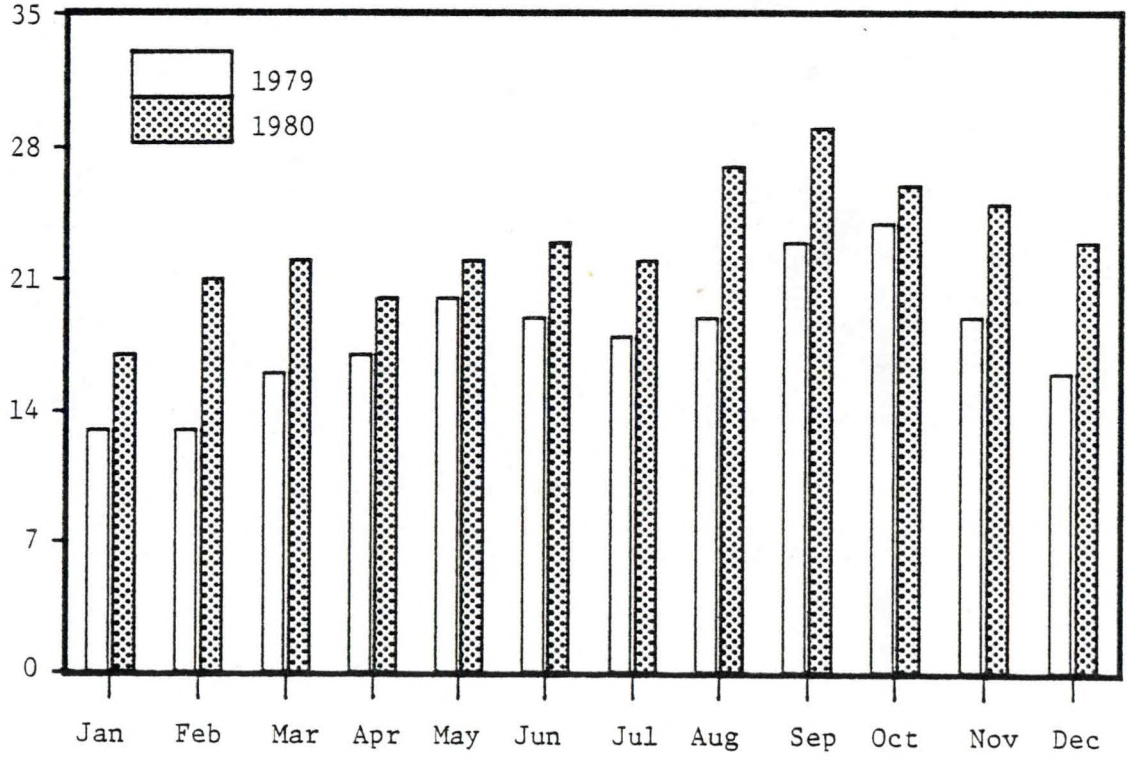
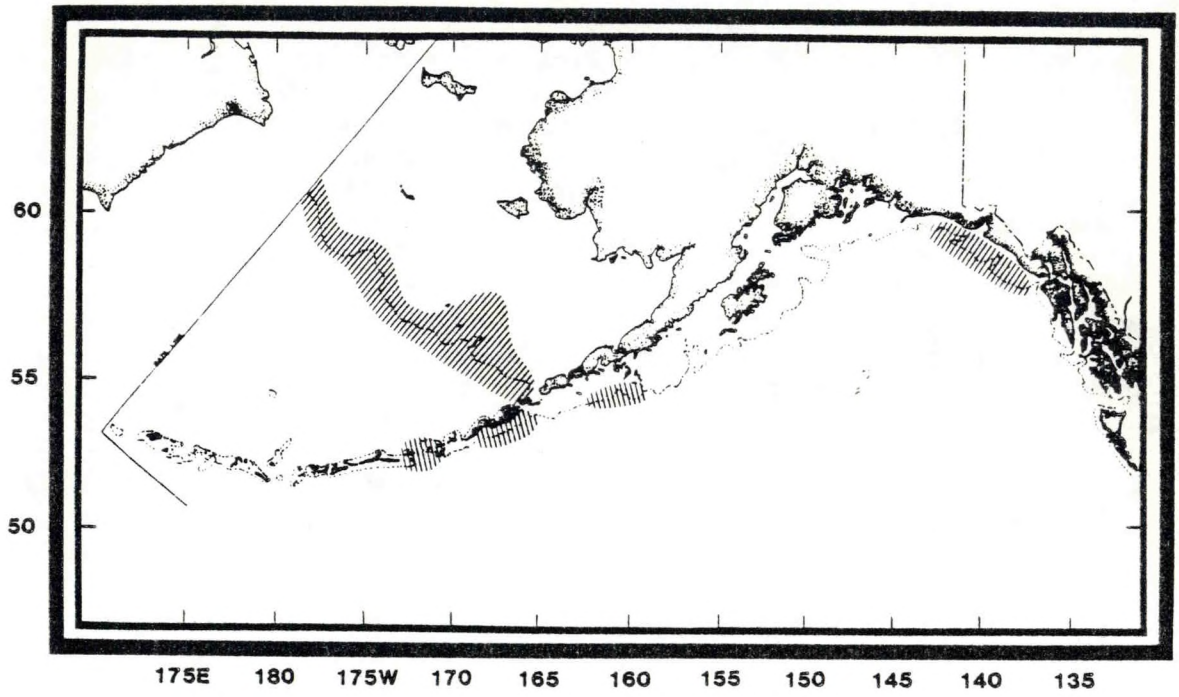


Figure 20 - Korean Fishing Areas - 1980



A total of 34 vessels were used by Korea in 1980, including 22 large stern trawlers, 2 longliners, 1 factoryship, and 9 transport vessels (Appendix 6). That was three vessels more than 1979. From 17 to 29 vessels were present off Alaska each month (Figure 19 and 20). Total effort from these vessels was up 20 percent to 5,464 days, with effort higher than 1979 during every month. Although catch in the Gulf of Alaska was increased by 7 percent, effort in that area declined 44 percent; at the same time, effort in the Bering Sea and Aleutians increased 51 percent. This resulted in effort divided with 84 percent in the Bering Sea/Aleutians and 16 percent in the Gulf of Alaska, compared to a 67/33 split in 1979.

Groundfish Trawl Fishery

Korea continued to expand its trawl fishery for groundfish in 1980. Groundfish was taken by 22 independent trawlers (six more than last year) which utilized 4,319 vessel days. Total catch taken by these vessels was 208,819.9 metric tons, 99.5 percent of Korea's catch. Eighty-five percent of trawler landings were taken from the Bering Sea and Aleutian Islands area.

Effort in the Bering Sea was constant throughout the year, with 15 to 21 trawlers operating each month. Forty-six percent of activity occurred in the eastern Bering Sea from the Pribilof Islands to Unimak Pass, with heaviest effort from May to November. Another 45 percent of effort was spread throughout the central Bering Sea, primarily during January-April and November-December. Effort in the central and eastern Aleutians, though higher than last year, was still minor (9 percent of trawler days). Overall, effort in this area increased 50 percent to 3,912 days. Catch totalled 177,415.6 metric tons and was 64 percent pollock, 17 percent flounders, 9.8 percent Atka mackerel, 3.6 percent Pacific cod, and the remainder miscellaneous species.

Korea's groundfish activities in the Gulf of Alaska utilized 19 trawlers for a total of 407 days, a 40 percent decrease from 1979. Three to 18 vessels operated from June to October, with zero effort in other months. Most effort was exerted in the western Gulf of Alaska near the Umnak, Unimak, and Shumagin Islands. Minor effort (27 days) was spent along the Yakutat fishing grounds. Pollock was 79.6 percent of the 31,404.3 metric ton catch, which also included 5.5 percent flounders, 5.3 percent Pacific cod, and 9.6 percent other groundfish.

Longline Fishery

As in 1978 and 1979, Korea deployed two longline vessels to Alaska to target on sablefish. 1980's fishery was very similar to 1979, although catch and effort both declined approximately 6 percent. Effort decreased from 389 vessel days in 1979 to 367 days in 1980, while catch declined from 1,024.5 metric tons to 957.3 tons (2.11 million lbs.). Korean longline catches were 76 percent sablefish and 16 percent rockfish; the remaining 8 percent included Pacific cod and pollock.

Over 80 percent of Korean longlining activity occurred in the Gulf of Alaska. One or two vessels fished each month from April to November. Fifty-seven percent of the 296 vessel days was spent near the Shumagin Islands and the remainder along the Yakutat grounds. Longliners landed a total of 783.8 metric tons in the Gulf of Alaska in 1980. Bering Sea and Aleutian longline catches in 1980 totalled 173.5 tons, a decrease of 59.9 tons from last year. These landings were made from June to December by one to two longliners fishing a total of 71 days. The primary fishing area was the eastern Bering Sea between the Pribilof Islands and Unimak Pass, with minor effort along the eastern Aleutians.

POLISH FISHING ACTIVITIES

Poland doubled its effort off Alaska over 1979 levels, using a total of 2,458 days to land a catch of 61,367.8 metric tons (135.3 million lbs.). Catch for Poland in previous years had been 1,456 metric tons in 1977, 1,266 tons in 1978, and 38,028 tons in 1979. Polish landings off Alaska in 1980 were 96.5 percent pollock; flounders, Pacific cod, and other groundfish were the remaining 3.5 percent. Polish vessels provided 4 percent of all foreign catch off Alaska, while using 3 percent of fishing effort.

Twenty-four large stern trawlers and five transport vessels (14 vessels more than 1979) were deployed this year, with vessels present during all months except August (Figure 21 and Appendix 8). 1979 effort was almost evenly divided between the Gulf of Alaska and the Bering Sea/Aleutians (Figure 22). In 1980, however, only 30 percent of activity occurred in the Gulf of Alaska.

Fishing in the Gulf of Alaska occurred during all of 1980 except April-May and July-August. Twenty-two trawlers (2-17 vessels per month) fished a total of 631 days, an increase of 33 days over 1979. These vessels fished from the Shumagin Islands to south of Kodiak Island. Catch in the Gulf of Alaska totalled 13,274.4 metric tons, 22 percent of 1980 Polish landings.

Figure 21 - Number of Polish Vessels Off Alaska by Month - 1979 and 1980

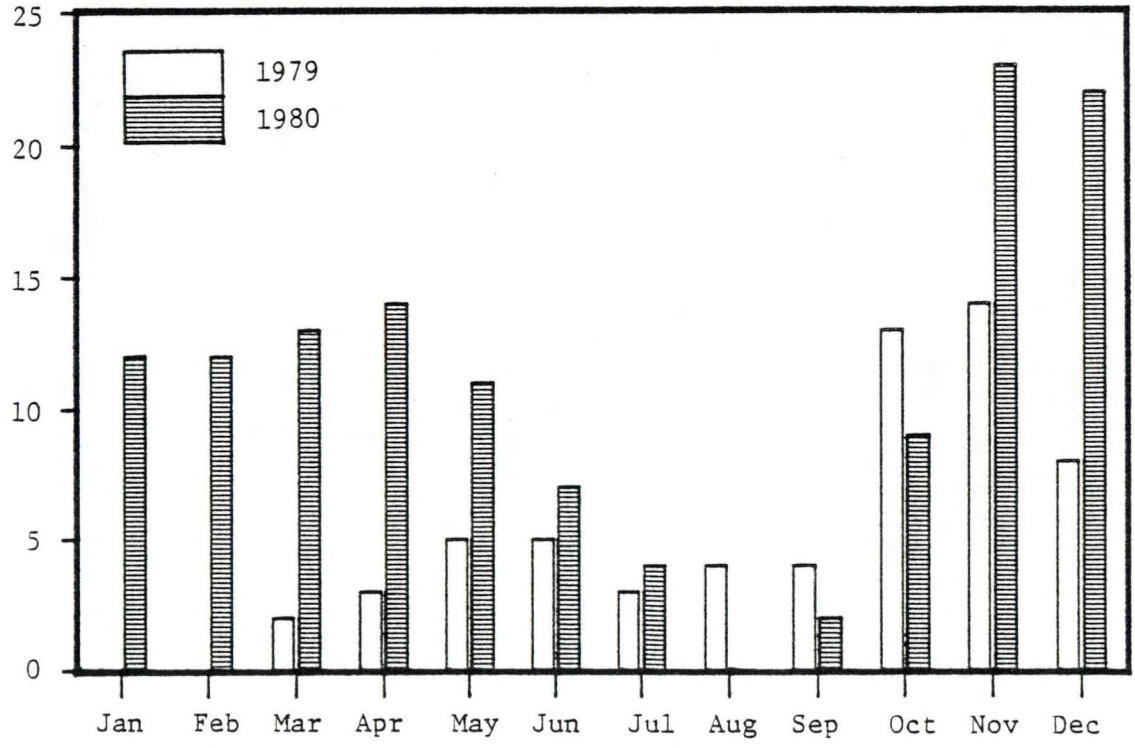
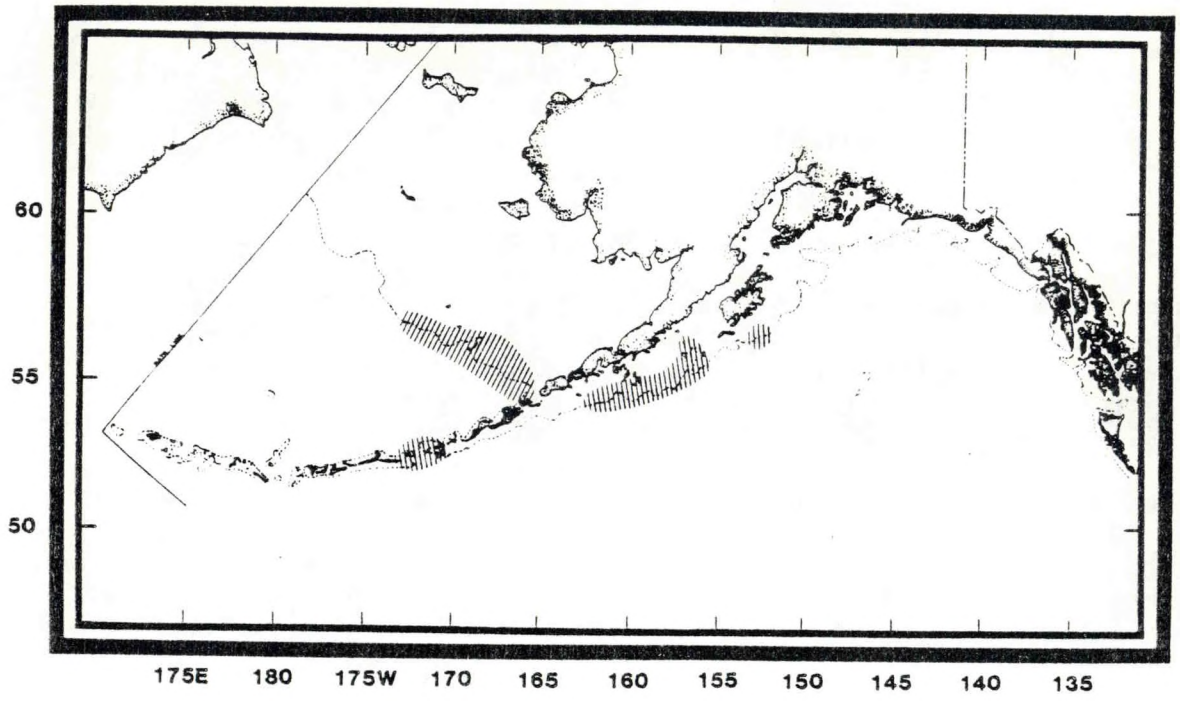


Figure 22 - Polish Fishing Areas - 1980



All 24 Polish trawlers fished in the Bering Sea and Aleutians at some point in 1980. Three to 20 vessels fished during all months except January, August, and September. Effort increased 196 percent over 1979 to 1,682 days and yielded a catch of 48,093.4 tons. About 88 percent of catch was taken in the eastern Bering Sea, from west of the Pribilof Islands to Unimak Pass. The remaining landings came from the eastern Aleutians.

TAIWANESE ACTIVITIES

Taiwan sent four vessels (three medium stern trawlers and one large stern trawler) to Alaska in 1980, compared to five vessels in 1977, two vessels in 1978, and three vessels in 1979 (Appendix 7). One to three of the vessels fished in Alaskan waters each month from January to August (Figure 23). Effort by Taiwanese vessels totalled 306 days, up by 49 percent over 1979. Through this expanded effort, Taiwan was able to increase its catch 174 percent over 1979 to 5,508 metric tons in 1980. Taiwanese catch was 90 percent pollock, 4 percent pollock, 3 percent flounders, and 3 percent other groundfish.

Figure 23 - Number of Taiwanese Vessels Off Alaska by Month - 1979 and 1980

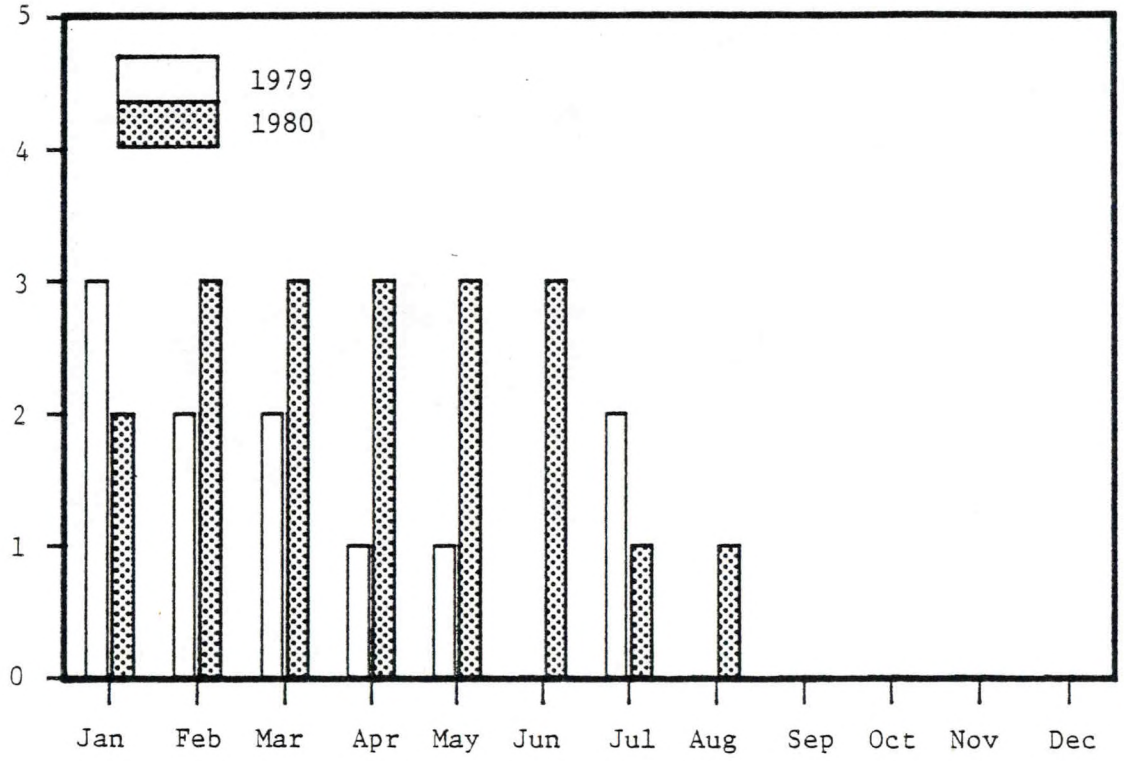
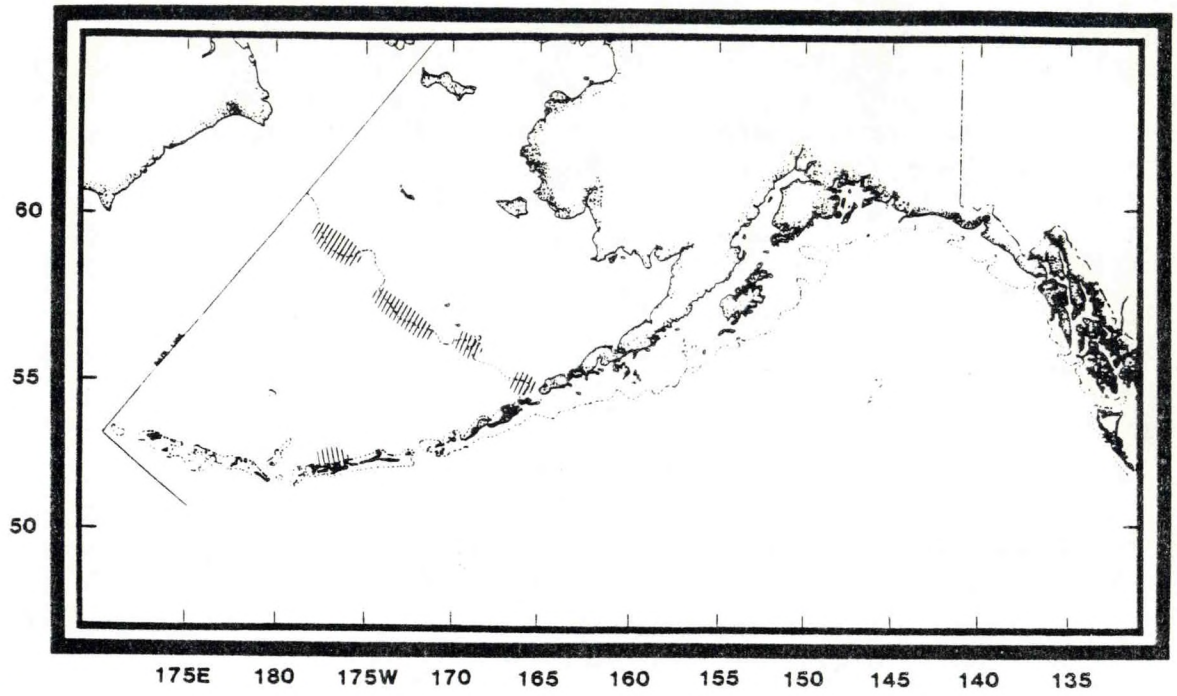


Figure 24 - Taiwanese Fishing Areas - 1980

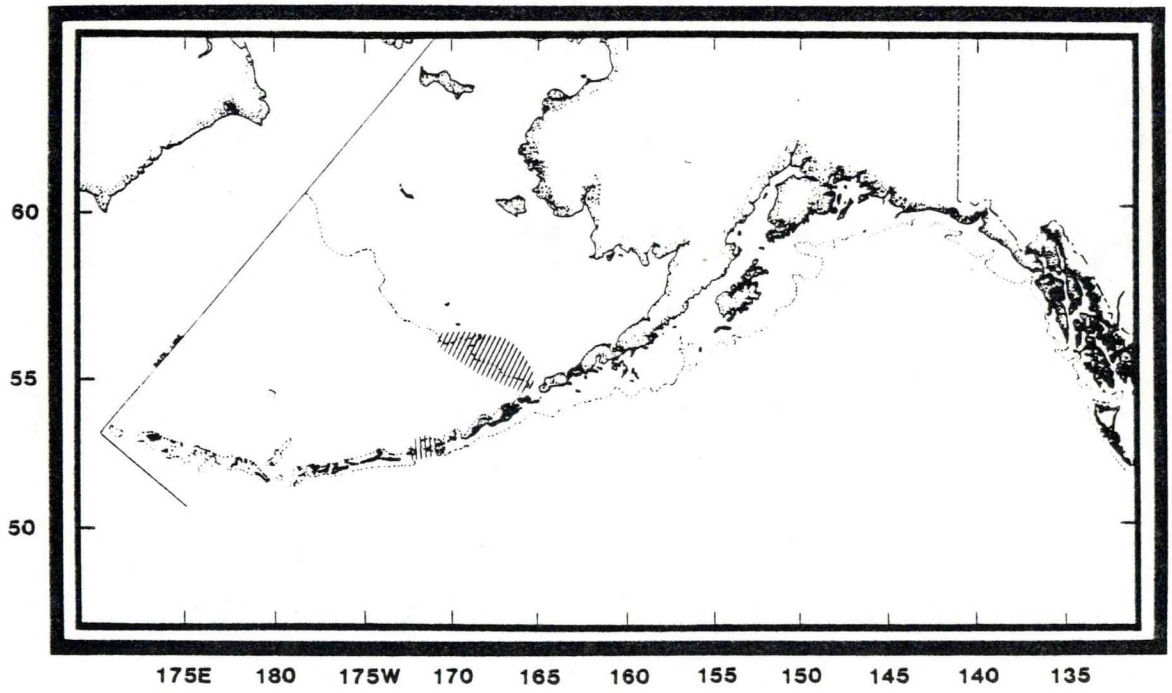


Taiwan started its 1980 effort at the end of January with the deployment of two trawlers. Three trawlers were present off Alaska each month from February to June. Fishing was reduced to a one-vessel effort during July and August before Taiwanese vessels left Alaskan waters for the duration of 1980. As in 1979, most Taiwanese fishing (301 days) occurred in the Bering Sea west and southwest of the Pribilof Islands (Figure 24). The other 5 days were spent in the central Aleutians east of Amchitka Pass.

WEST GERMAN ACTIVITIES

West Germany (Federal Republic of Germany) was the sixth and newest nation fishing off Alaska in 1980. One West German trawler was permitted (Appendix 9) and spent a total of 108 days in Alaskan waters. Activities by the large trawler began at the end of August and continued past the end of 1980. Most effort (101 days) was spent in the eastern Bering Sea from southwest of the Pribilof Islands to Unimak Pass (Figure 25). In addition, the vessel fished 4 days northwest of the Pribilof Islands and 3 days along Amukta Pass in the central Aleutians. This single trawler took 6,729.5 metric tons of groundfish, for a catch rate of 62.3 tons per day. Landings were predominantly pollock (89 percent) and also included 8 percent Pacific cod and 3 percent other species.

Figure 25 - West German Fishing Areas - 1980



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TABLES

TABLE 1 - 1980 STAFFING OF LAW ENFORCEMENT BRANCH, NMFS ALASKA REGION

	NUMBER OF POSITIONS
REGIONAL OFFICE - JUNEAU	
SPECIAL AGENT IN CHARGE	1
ASSISTANT SPECIAL AGENTS IN CHARGE	2
SPECIAL AGENTS	1
SUPPORT/DATA ANALYSIS	4
TOTAL	8
KODIAK FIELD OFFICE	
SPECIAL AGENTS	5
SUPPORT	1
TOTAL	6
SITKA FIELD OFFICE	
SPECIAL AGENTS	2
SUPPORT	1
TOTAL	3
ANCHORAGE FIELD OFFICE	
SPECIAL AGENTS	3
SUPPORT	1
TOTAL	4
TOTAL STAFF	21

TABLE 2 - SUMMARY OF ALASKA FISHERIES PATROLS - 1980

	COAST GUARD SURFACE PATROLS			COAST GUARD AERIAL PATROLS				
	WITH AGENT	NO AGENT	TOTAL	WITH AGENT	NO AGENT	TOTAL	NMFS OR OTHER SOURCE	TOTAL
PATROL STATISTICS								
MILEAGE	42,657	82,724	125,381	32,080	235,368	267,448	*	392,829
HOURS	4,821	9,030	13,851	234	1,612	1,846	*	15,697
DAYS	219	468	687	44	248	292	*	979
SIGHTINGS								
JAPAN	308	486	794	246	3,746	3,992	32	4,818
SOVIET UNION	98	108	206	12	372	384	15	605
KOREA	60	152	212	22	658	680	2	894
POLAND	70	68	138	43	396	439	0	577
TAIWAN	4	8	12	5	47	52	1	65
WEST GERMANY	0	6	6	1	35	36	0	42
UNITED STATES	184	592	776	538	897	1,435	2	2,213
OTHER	0	22	22	11	62	73	0	95
TOTAL	724	1,442	2,166	878	6,213	7,091	52	9,309
BOARDINGS								
JAPAN	64	110	174	0	0	0	0	174
SOVIET UNION	20	22	42	0	0	0	0	42
KOREA	13	35	48	0	0	0	0	48
POLAND	13	20	33	0	0	0	0	33
TAIWAN	2	3	5	0	0	0	0	5
WEST GERMANY	0	2	2	0	0	0	0	2
UNITED STATES	0	68	68	0	0	0	0	68
OTHER	0	0	0	0	0	0	0	0
TOTAL	112	260	372	0	0	0	0	372

* PATROL STATISTICS NOT AVAILABLE.

Table 3 - International Agreements, Conventions, and Laws Enforced Off Alaska - 1980

International Agreements [1]	Signed	Began	Ends
Canada	7/26/77	7/26/77	Continues to be renegotiated
Japan	3/18/77	11/29/77	12/31/82
Korea	1/4/77	3/3/77	7/1/82
Poland	8/2/76	2/28/77	7/1/84
Soviet Union	11/26/76	2/28/77	7/1/84
Taiwan	2/28/77	9/15/77	7/1/82
West Germany	2/15/77	6/9/77	7/1/84

Conventions	Originated	Extended	Expires
Fur Seal Convention (16 USC 1151-1187)	1911	1980	October 1984
Halibut Convention (16 USC 772-772j)	1923	[2]	2 years notice
INPFC (16 USC 1021-1032)	1952	[3]	1 year notice
Whaling Convention (16 USC 916)	1931	1946	Within any year

Public Laws	Originated	Began
200-Mile Fisheries Zone P.L. 94-265 (16 USC 1801-1882)	4/13/76	3/1/77

[1] Unless specified, agreements are reviewed biannually and continue in effect unless terminated by 60 days advance notification.

[2] Amended by protocol on March 29, 1979.

[3] Amended by protocol on April 25, 1978.

TABLE 4 - NMFS AND U.S. COAST GUARD ALASKA FISHERIES PATROLS, 1964-1980

YEAR	AGREEMENTS AND LAWS ENFORCED	NUMBER OF AGENTS	NUMBER OF SHIPS	SURFACE PATROLS		AERIAL PATROLS		TOTAL MILES	FOREIGN VESSEL		
				DAYS	MILES	HOURS	MILES		SIGHTINGS	BOARDINGS	VIOLATIONS
1980	12	13	16	687	125,381	1,846	267,448	392,829	7,096	304	62
1979	12	14	14	569	98,069	2,995	275,360	373,429	6,809	270	56
1978	13	14	18	811	136,715	1,574	265,396	402,111	6,159	709	84
1977	11	16	19	893	163,207	1,327	135,230	298,437	5,035	662	71
1976	13	15	12	694	125,104	2,764	373,581	498,685	7,143	267	25
1975	13	14	14	742	142,747	2,162	356,916	499,663	5,450	169	5
1974	13	15	9	593	114,317	2,472	406,377	520,694	6,211	120	7
1973	13	9	15	529	113,945	1,947	335,186	449,131	5,473	93	6
1972	13	10	16	493	96,681	1,815	261,731	358,412	5,865	86	8
1971	12	10	13	488	89,421	1,375	236,239	325,660	5,125	69	4
1970	12	8	11	380	69,011	1,135	190,000	259,011	4,300	87	7
1969	11	7	13	332	67,227	841	147,000	214,227	2,764	52	5
1968	11	7	10	416	82,264	1,107	156,000	238,264	4,158	40	0
1967	11	8	6	327	81,729	1,373	207,000	288,729	3,859	41	5
1966	9	7	6	306	59,108	1,345	190,300	249,408	3,638	36	1
1965	8	7	6	296	54,015	1,428	200,000	254,015	5,785	25	1
1964	7	7	5	245	48,915	1,040	145,116	194,031	3,105	31	0

TABLE 5 - 1980 OBSERVER COVERAGE OFF ALASKA

NATION AND VESSEL TYPE *	BERING SEA/ALEUTIANS OBSERVER DAYS	BERING SEA/ALEUTIANS VESSEL DAYS	BERING SEA/ALEUTIANS PERCENT COVERAGE	GULF OF ALASKA OBSERVER DAYS	GULF OF ALASKA VESSEL DAYS	GULF OF ALASKA PERCENT COVERAGE	ALL AREAS OBSERVER DAYS	ALL AREAS VESSEL DAYS	ALL AREAS PERCENT COVERAGE
JAPAN									
FAC	580	927	62.6	0	0	.0	580	927	62.6
SALMON FAC	158	240	65.8	0	0	.0	158	240	65.8
INDEP TRAWL	1,286	25,717	5.0	400	3,100	12.9	1,686	28,817	5.9
LL	213	1,303	16.3	235	3,701	6.3	448	5,004	9.0
INPOT	838	1,644	51.0	0	0	.0	838	1,644	51.0
SNPOT	0	50	.0	0	0	.0	0	50	.0
CFAC	115	138	83.3	0	0	.0	115	138	83.3
TOTAL	3,190	30,019	10.6	635	6,801	9.3	3,825	36,820	10.4
SOVIET UNION									
FAC	22	42	52.4	0	0	.0	22	42	52.4
INDEP TRAWL	697	750	92.9	193	1,870	10.3	890	2,620	34.0
TOTAL	719	792	90.8	193	1,870	10.3	912	2,662	34.3
KOREA									
FAC	0	79	.0	53	86	61.6	53	165	32.1
INDEP TRAWL	358	4,060	8.8	95	415	22.9	453	4,475	10.1
LL	0	71	.0	0	296	.0	0	367	.0
TOTAL	358	4,210	8.5	148	797	18.6	506	5,007	10.1
POLAND									
INDEP TRAWL	213	1,682	12.7	6	631	1.0	219	2,313	9.5
TAIWAN									
INDEP TRAWL	0	306	.0	0	0	.0	0	306	.0
WEST GERMANY									
INDEP TRAWL	22	108	20.4	0	0	.0	22	108	20.4
ALL NATIONS									
GROUNDFISH FAC	0	0	.0	0	0	.0	0	0	.0
SALMON FAC	158	240	65.8	0	0	.0	158	240	65.8
INDEP TRAWL	2,576	32,623	7.9	694	6,016	11.5	3,270	38,639	8.5
LL	213	1,374	15.5	235	3,997	5.9	448	5,371	8.3
INPOT	838	1,644	51.0	0	0	.0	838	1,644	51.0
SNPOT	0	50	.0	0	0	.0	0	50	.0
TOTAL	4,502	37,117	12.1	982	10,099	9.7	5,484	47,216	11.6

* FACTORYSHIP DAYS EXCLUDE CATCHER VESSEL EFFORT.

TABLE 6 - FISHERY LAW INFRACTIONS OFF ALASKA - 1980 *

	NUMBER OF VIOLATIONS BY TYPE								
	VESSEL IDENTIFICATION	CATCH REPORTING	PROHIBITED SPECIES	FISHING IN CLOSED PERIOD	FISHING WITHOUT PERMIT	OTHER **	TOTAL CASES	CASES PENDING	PENALTIES COLLECTED
JAPAN									
CITATIONS	2	4	0	0	0	1	7	0	$ 0
VIOLATIONS	0	1	1	0	0	0	2	0	$ 8,500
SEIZURES	0	8	0	0	0	0	8	0	$2,685,000
TOTAL	2	13	1	0	0	1	17	0	$2,693,500
SOVIET UNION									
CITATIONS	1	8	1	0	0	0	10	0	$ 0
VIOLATIONS	0	2	1	0	13	0	16	13	$ 30,000
SEIZURES	0	2	0	0	0	0	2	0	$ 723,000
TOTAL	1	12	2	0	13	0	28	13	$ 753,000
KOREA									
CITATIONS	0	4	0	0	0	1	5	0	$ 0
VIOLATIONS	0	1	0	0	0	0	1	0	$ 3,000
TOTAL	0	5	0	0	0	1	6	0	$ 3,000
POLAND									
CITATIONS	1	2	2	0	0	1	6	0	$ 0
VIOLATIONS	0	1	0	0	0	0	1	0	$ 1,000
SEIZURES	0	1	1	0	0	0	2	0	$ 387,500
TOTAL	1	4	3	0	0	1	9	0	$ 388,500
TAIWAN									
CITATIONS	0	0	1	0	0	0	1	0	$ 0
SEIZURES	0	1	0	0	0	0	1	0	$ 40,000
TOTAL	0	1	1	0	0	0	2	0	$ 40,000
UNITED STATES									
VIOLATIONS	0	1	0	1	0	0	2	0	$ 1,350
IPHC VIOLATIONS	0	0	0	11	0	0	11	0	$ 2,700
TOTAL	0	1	0	12	0	0	13	0	$ 4,050
ALL NATIONS									
CITATIONS	4	18	4	0	0	3	29	0	$ 0
VIOLATIONS	0	6	2	1	13	0	22	13	$ 43,850
SEIZURES	0	12	1	0	0	0	13	0	$3,835,500
IPHC VIOLATIONS	0	0	0	11	0	0	11	0	$ 2,700
TOTAL	4	36	7	12	13	3	75	13	$3,882,050

* ALL ARE MFCMA INFRACTIONS, UNLESS NOTED OTHERWISE.

** OTHER INCLUDES FAILURE TO PROVIDE ADEQUATE BOARDING LADDER AND FAILURE TO POST PROPERLY COMPLETED PERMIT IN WHEELHOUSE OF VESSEL.

TABLE 7 - NUMBER OF FOREIGN VIOLATIONS OFF ALASKA BY NATION - 1979 AND 1980

NUMBER OF MFCMA VIOLATIONS *

NATION	CITATIONS			VIOLATIONS			SEIZURES			TOTAL		
	1979	1980	PERCENT CHANGE	1979	1980	PERCENT CHANGE	1979	1980	PERCENT CHANGE	1979	1980	PERCENT CHANGE
JAPAN	16	7	-56	3	2	-33	6	8	+33	25	17	-32
SOVIET UNION	7	10	+43	2	16	+700	0	2	+100	9	28	+211
KOREA	1	5	+400	4	1	-75	2	0	-100	7	6	-14
POLAND	1	6	+500	0	1	+100	0	2	+100	1	9	+800
TAIWAN	0	1	+100	0	0	--	2	1	-50	2	2	--
MEXICO	0	0	--	3	0	-100	0	0	--	3	0	-100
WEST GERMANY	0	0	--	0	0	--	0	0	--	0	0	--
ALL NATIONS	25	29	+16	12	20	+67	10	13	+30	47	62	+32

* INCLUDES CASES THAT ARE PENDING.
DOES NOT INCLUDE CASES THAT WERE DISMISSED.

Table 8 - Summary of Foreign Vessel Seizures
off Alaska - 1980

February 3 KAIUN MARU NO. 65 Japanese medium trawler

Seized in the eastern Aleutians in position 52-57N 170-26W for underlogging its catch by 137 metric tons or 35 percent. Final settlement of $110,000 was made on October 8, 1981.

February 7 GOLDEN DRAGON NO. 1 Taiwanese large trawler

Seized west of the Pribilof Islands in position 56-30N 172-16W for underlogging by 30 percent. Case settled on May 13, 1980 for $40,000.

February 22 KOLIAS Polish large trawler

Seized southwest of the Pribilof Islands in position 56-03N 171-04W for underlogging pollock catches by 1,817 metric tons, or 24.4 percent. Settled on December 9, 1980 for $250,000 and a 4-month permit sanction.

March 10 ZELENOGRAD Soviet large trawler

Seized in the Gulf of Alaska southwest of the Shumagin Islands, position 54-15N 160-46W, for grossly underlogging catch by 62 metric tons or 26 percent. The case was settled in September 1980 with a 2-month permit sanction and penalty of $400,000.

March 16 KUMANO MARU NO. 15 Japanese medium trawler

Seized northwest of the Pribilof Islands in position 58-27N 175-08W for failing to accurately log catches. Vessel had overlogged pollock catches by 83 percent, or 83 metric tons, to cover up underlogging of turbot and sablefish by 91 metric tons, or 37 percent. Settled in October 1980 for $300,000 and a 2-month permit sanction.

June 8 MYS PROKOFYEVA Soviet large trawler

Seized southwest of the Shumagin Islands in position 54-22N 161-25W for underlogging catches of Atka mackerel by 50 metric tons or 70 percent. The case was settled in September 1982 for $323,000.

Table 8 - Summary of Foreign Vessel Seizures
off Alaska - 1980 (continued)

August 12 CHUYO MARU NO. 21 Japanese medium trawler

Seized in the north central Bering Sea in position 59-52N 179-31W for failing to accurately log catches. The vessel was discovered over-logging catches of pollock, flounders, and other species by 208 metric tons or 900 percent. This was an attempt to disguise a 76 percent (271 metric tons) underlogging of turbot, Pacific ocean perch, and squid. Case was settled on December 5, 1980 for $300,000 and a 60-day permit suspension.

August 17 CHUYO MARU NO. 22 Japanese medium trawler

A sistership of the CHUYO MARU NO. 21, this vessel was seized in the central Bering Sea, position 57-49N 176-58W, for an identical violation. Pollock, flounders, and other species were overlogged by 350 percent (242 metric tons), while turbot, Pacific ocean perch, and squid were underlogged 49 percent (277 metric tons). This case was also settled for $300,000 and a 60-day permit sanction.

September 6 SHINNICHI MARU NO. 38 Japanese medium trawler

Seized southwest of Kiska Island in the western Aleutians in position 51-46N 177-08E for failing to keep an accurate catch log. Pollock was overlogged by 172 percent or 20.5 metric tons to camouflage underlogging of rockfish by 55 percent, or 28.5 metric tons. Settled in March 1981 for $300,000 and 2-month permit sanction.

September 8 SHOSHIN MARU NO. 21 Japanese medium trawler

Seized southwest of the Pribilof Islands in position 56-03N 173-24W for underlogging. Catches of Pacific cod, Atka mackerel, and turbot had been underreported by 28.3 metric tons or 37 percent. A $225,000 penalty and 2-month permit sanction closed this case in March 1981.

September 10 SHOYO MARU Japanese medium trawler

Seized in position 52-40N 172-23W, north of Seguam Island in the central Aleutians, for failing to accurately record catch. Pollock and other species were overlogged by 400 percent (37.1 metric tons), while catches including turbot, flounders, and sablefish were underlogged 23 percent (30.8 metric tons). The case was settled in January 1981 with a 2-month permit sanction and penalty of $300,000.

Table 8 - Summary of Foreign Vessel Seizures
off Alaska - 1980 (continued)

October 24 RYUHO MARU NO. 38 Japanese longliner

Seized west of Chirikof Island in the Gulf of Alaska in position 55-50N 156-17W for failing to keep an accurate catch log. The RYUHO MARU NO. 38 had been seized in December 1979 for a similar underlogging violation; that case was settled for $215,000 and a 45-day permit sanction on October 23, 1980, 1 day before the 1980 seizure. This seizure involved a 47 percent overlog (196 metric tons) of Pacific cod to cover a 56 percent underlog (157 metric tons) of sablefish, and was settled in April 1982 for $850,000. In addition, the vessel's permit was suspended for all of 1981.

November 21 KALMAR Polish large trawler

Seized southeast of the Pribilof Islands, position 55-39N 168-07W, for retaining and processing salmon and halibut, which are prohibited species. It was also discovered that the vessel had overlogged sablefish by 47.5 metric tons or 148 percent, and underlogged Pacific cod by 23.4 metric tons or 61 percent. Case was settled in December 1980 with a $137,500 penalty and a year-long revocation of the vessel's 1981 permit.

TABLE 9 - DAMAGE TO U.S. FISHING GEAR BY FOREIGN VESSELS - 1980

DATE	REPORTED BY	ALLEGED OFFENDER	LOCATION	LOSSES/DAMAGE
MAY 26	LIBROS	JAPANESE TRAWLER KAIYO MARU NO. 12 AND TRANSPORT VESSEL YOHO MARU	EASTERN BERING SEA, 56-37N 167-09W	UNKNOWN NUMBER OF POTS LOST.
JUNE 24	BEAR FLAG	JAPANESE TRAWLERS RYUYO MARU AND TOMI MARU NO. 85	EASTERN GULF OF ALASKA, 57-44N 137-13W	1 BUOY AND 1 RADAR REFLECTOR LOST.
JUNE 24	HEATHER KAY	2 UNIDENTIFIED TRAWLERS	EASTERN GULF OF ALASKA, 57-54N 137-25W	UNKNOWN AMOUNT OF LONGLINE GEAR DESTROYED.
JULY 27	BERTHA	UNIDENTIFIED JAPANESE VESSEL	EASTERN GULF OF ALASKA, SOUTH OF CAPE CROSS	UNKNOWN AMOUNT OF LONGLINE GEAR DESTROYED.
OCTOBER 7	ARCTIC LADY	2 UNIDENTIFIED TRAWLERS (BELIEVED POLISH)	CENTRAL GULF OF ALASKA, 56-20N 156-00W	13 CRAB POTS LOST.
OCTOBER 10	LYNN J	UNIDENTIFIED VESSEL	CENTRAL GULF OF ALASKA, 55-50N 156-15W	3 CRAB POTS LOST.
OCTOBER 20	ARCTIC LADY	JAPANESE LONGLINER RYUHO MARU NO. 38	CENTRAL GULF OF ALASKA, 56-00N 155-30W	3 CRAB POTS LOST.

TABLE 9 - DAMAGE TO U.S. FISHING GEAR BY FOREIGN VESSELS - 1980 (CONTINUED)

DATE	REPORTED BY	ALLEGED OFFENDER	LOCATION	LOSSES/DAMAGE
OCTOBER 30	MARINER	UNIDENTIFIED JAPANESE LONGLINER	CENTRAL GULF OF ALASKA, SOUTH OF CHIRIKOF ISLAND	2 CRAB POTS LOST.
NOVEMBER 17	ALASKAN TROJAN	SOVIET RESEARCH VESSEL POSEIDON	CENTRAL GULF OF ALASKA, 55-53N 155-00W	2 CRAB POTS LOST.
NOVEMBER 17	BUCANEER	SOVIET RESEARCH VESSEL POSEIDON	CENTRAL GULF OF ALASKA, 55-53N 155-00W	4 CRAB POTS LOST.
NOVEMBER 17	LADY ELLEN	SOVIET RESEARCH VESSEL POSEIDON	CENTRAL GULF OF ALASKA, 55-53N 155-00W	4 CRAB POTS LOST.

TABLE 10 - FINAL ALLOCATIONS FOR THE 1980 FISHING SEASON *

	BERING SEA/ ALEUTIANS	GULF OF ALASKA				ALL AREAS
		WEST	CENTRAL	EAST	TOTAL	
JAPAN						
POLLOCK	895,827	360	40,915	5,470	46,745	942,572
FLOUNDER	190,406	2,090	10,750	6,550	19,390	209,796
PACIFIC COD	38,517	9,882	25,485	5,440	40,807	79,324
ROCKFISH	13,218	1,261	5,476	14,471	21,208	34,426
SABLEFISH	3,259	1,125	2,899	1,668	5,692	8,951
MACKEREL	2,500	277	5,516	940	6,733	9,233
SQUID	6,634	151	947	615	1,713	8,347
HERRING	3,550	0	0	0	0	3,550
SNAILS	3,000	0	0	0	0	3,000
SALMON	15,500	0	0	0	0	15,500
CRAB	7,500	0	0	0	0	7,500
OTHER FISH	59,779	3,266	11,269	2,600	17,135	76,914
TOTAL	1,239,690	18,412	103,257	37,754	159,423	1,399,113
SOVIET UNION						
POLLOCK	2,156	16,025	24,917	0	40,942	43,098
FLOUNDER	10	2,960	1,000	0	3,960	3,970
PACIFIC COD	11	1,198	1,882	0	3,080	3,091
ROCKFISH	7	1,320	2,000	0	3,320	3,327
SABLEFISH	0	240	400	0	640	640
MACKEREL	937	2,882	13,848	0	16,730	17,667
SQUID	0	330	660	0	990	990
OTHER FISH	0	1,359	2,316	0	3,675	3,675
TOTAL	3,121	26,314	47,023	0	73,337	76,458
KOREA						
POLLOCK	113,732	24,878	0	3,727	28,605	142,337
FLOUNDER	36,339	3,640	0	685	4,325	40,664
PACIFIC COD	6,194	2,600	0	2,385	4,985	11,179
ROCKFISH	2,739	963	0	4,897	5,860	8,599
SABLEFISH	730	620	0	565	1,185	1,915
MACKEREL	18,953	1,066	0	1,215	2,281	21,234
SQUID	2,331	433	0	490	923	3,254
HERRING	400	0	0	0	0	400
OTHER FISH	9,322	2,447	0	1,494	3,941	13,263
TOTAL	190,740	36,647	0	15,458	52,105	242,845
POLAND						
POLLOCK	46,455	12,293	15,172	0	27,465	73,920
FLOUNDER	17,026	1,410	405	0	1,815	18,841
PACIFIC COD	1,300	1,000	940	0	1,940	3,240
ROCKFISH	817	461	626	0	1,087	1,904
SABLEFISH	253	90	70	0	160	413
MACKEREL	590	413	400	0	813	1,403
SQUID	648	81	265	0	346	994
HERRING	125	0	0	0	0	125
OTHER FISH	2,548	355	980	0	1,335	3,883
TOTAL	69,762	16,103	18,858	0	34,961	104,723

* BERING SEA/ALEUTIANS FISHING YEAR 1/1/80 TO 12/31/80.
GULF OF ALASKA FISHING YEAR 11/1/79 TO 10/31/80.

TABLE 10 - FINAL ALLOCATIONS FOR THE 1980 FISHING SEASON (CONTINUED) *

	BERING SEA/ ALEUTIANS	GULF OF ALASKA				ALL AREAS
		WEST	CENTRAL	EAST	TOTAL	
TAIWAN						
POLLOCK	6,557	0	0	0	0	6,557
FLOUNDER	1,280	0	0	0	0	1,280
PACIFIC COD	250	0	0	0	0	250
ROCKFISH	187	0	0	0	0	187
SABLEFISH	96	0	0	0	0	96
MACKEREL	100	0	0	0	0	100
SQUID	120	0	0	0	0	120
HERRING	25	0	0	0	0	25
OTHER FISH	430	0	0	0	0	430
TOTAL	9,045	0	0	0	0	9,045
WEST GERMANY						
POLLOCK	8,223	0	0	0	0	8,223
FLOUNDER	3,000	0	0	0	0	3,000
PACIFIC COD	2,163	0	0	0	0	2,163
ROCKFISH	399	0	0	0	0	399
SABLEFISH	62	0	0	0	0	62
MACKEREL	1,000	0	0	0	0	1,000
SQUID	217	0	0	0	0	217
OTHER FISH	1,420	0	0	0	0	1,420
TOTAL	16,484	0	0	0	0	16,484
ALL NATIONS						
POLLOCK	1,072,950	53,556	81,004	9,197	143,757	1,216,707
FLOUNDER	248,061	10,100	12,155	7,235	29,490	277,551
PACIFIC COD	48,435	14,680	28,307	7,825	50,812	99,247
ROCKFISH	17,367	4,005	8,102	19,368	31,475	48,842
SABLEFISH	4,400	2,075	3,369	2,233	7,677	12,077
MACKEREL	24,080	4,638	19,764	2,155	26,557	50,637
SQUID	9,950	995	1,872	1,105	3,972	13,922
HERRING	4,100	0	0	0	0	4,100
SNAILS	3,000	0	0	0	0	3,000
SALMON	15,500	0	0	0	0	15,500
CRAB	7,500	0	0	0	0	7,500
OTHER FISH	73,499	7,427	14,565	4,094	26,086	99,585
TOTAL	1,528,842	97,476	169,138	53,212	319,826	1,848,668

* BERING SEA/ALEUTIANS FISHING YEAR 1/1/80 TO 12/31/80.
GULF OF ALASKA FISHING YEAR 11/1/79 TO 10/31/80.

TABLE 11 - FOREIGN CATCH (METRIC TONS) BY NATION AND AREA - 1980

AREA/SPECIES	JAPAN	SOVIET UNION	KOREA	POLAND	TAIWAN	WEST GERMANY	TOTAL	PERCENT BY AREA	PERCENT OF TOTAL
BERING SEA/ALEUTIANS									
POLLOCK	832,992.6	2,156.4	113,864.5	46,145.9	4,973.7	5,996.3	1,006,129.5	89.9	65.9
FLOUNDER	135,445.7	10.3	29,820.5	844.1	161.3	15.4	166,297.2	91.5	10.9
PACIFIC COD	29,524.0	10.9	6,404.3	627.5	199.7	552.5	37,318.9	52.1	2.4
ROCKFISH	7,126.7	6.2	1,233.1	60.0	27.0	15.1	8,468.0	33.7	.6
SABLEFISH	1,881.8	.0	349.7	152.2	38.4	15.9	2,438.0	28.4	.2
MACKEREL	1,718.7	937.0	17,482.9	43.9	.0	42.2	20,224.7	60.6	1.3
SQUID	4,641.8	.0	1,620.3	19.5	38.9	53.3	6,373.8	88.3	.4
HERRING *	329.2	428.2	22.7	2.1	.4	.0	782.6	100.0	.1
SNAILS	57.3	.0	.0	.0	.0	.0	57.3	100.0	.1
SALMON	15,442.0	.0	.0	.0	.0	.0	15,442.0	100.0	1.0
CRAB	7,094.4	.0	.0	.0	.0	.0	7,094.4	100.0	.5
OTHER FISH	39,877.8	7.9	6,791.2	198.3	68.6	38.8	46,982.5	84.7	3.1
TOTAL	1,076,132.1	3,556.7	177,589.1	48,093.4	5,508.0	6,729.5	1,317,608.7	86.4	86.4
GULF OF ALASKA									
POLLOCK	37,897.4	37,000.8	25,012.8	13,085.0	.0	.0	112,996.0	10.1	7.4
FLOUNDER	11,923.5	1,838.5	1,733.8	.2	.0	.0	15,496.0	8.5	1.0
PACIFIC COD	30,581.1	1,942.3	1,665.8	54.2	.0	.0	34,243.5	47.9	2.2
ROCKFISH	14,771.7	1,249.0	592.2	33.5	.0	.0	16,646.4	66.3	1.1
SABLEFISH	4,831.3	416.0	891.5	.0	.0	.0	6,138.8	71.6	.4
MACKEREL	1,895.9	10,473.5	736.1	56.9	.0	.0	13,162.4	39.4	.9
SQUID	697.2	36.8	107.0	.1	.0	.0	841.1	11.7	.1
OTHER FISH	5,374.9	1,646.1	1,448.9	44.4	.0	.0	8,514.4	15.3	.6
TOTAL	107,973.1	54,603.0	32,188.1	13,274.4	.0	.0	208,038.7	13.6	13.6
ALL AREAS									
POLLOCK	870,890.0	39,157.1	138,877.4	59,230.9	4,973.7	5,996.3	1,119,125.5	--	73.4
FLOUNDER	147,369.2	1,848.7	31,554.3	844.3	161.3	15.4	181,793.2	--	11.9
PACIFIC COD	60,105.2	1,953.2	8,070.1	681.8	199.7	552.5	71,562.4	--	4.7
ROCKFISH	21,898.4	1,255.1	1,825.3	93.5	27.0	15.1	25,114.4	--	1.6
SABLEFISH	6,713.2	416.0	1,241.1	152.2	38.4	15.9	8,576.8	--	.6
MACKEREL	3,614.6	11,410.5	18,219.0	100.8	.0	42.2	33,387.1	--	2.2
SQUID	5,339.0	36.8	1,727.3	19.6	38.9	53.3	7,214.9	--	.5
HERRING *	329.2	428.2	22.7	2.1	.4	.0	782.6	--	.1
SNAILS	57.3	.0	.0	.0	.0	.0	57.3	--	.1
SALMON	15,442.0	.0	.0	.0	.0	.0	15,442.0	--	1.0
CRAB	7,094.4	.0	.0	.0	.0	.0	7,094.4	--	.5
OTHER FISH	45,252.7	1,654.0	8,240.1	242.7	68.6	38.8	55,496.8	--	3.6
TOTAL	1,184,105.2	58,159.7	209,777.2	61,367.8	5,508.0	6,729.5	1,525,647.4	--	100.0
PERCENT OF TOTAL CATCH BY AREA									
BERING SEA/ALEUTIANS	90.9	6.1	84.7	78.4	100.0	100.0	86.4	--	--
GULF OF ALASKA	9.1	93.9	15.3	21.6	.0	.0	13.6	--	--
PERCENT OF TOTAL CATCH BY NATION	77.6	3.8	13.8	4.0	.4	.4	100.0	--	--

* HERRING HARVESTED 1/1/80 TO 2/8/80, THEN DECLARED A PROHIBITED SPECIES.

TABLE 12 - FOREIGN CATCH OFF ALASKA BY VESSEL TYPE, NATION, AND SPECIES - 1980

BERING SEA/ALEUTIAN ISLANDS

NATION/ VESSEL TYPE	POLLOCK	FLOUNDER	PACIFIC COD	SABLE-FISH	ROCKFISH	MACKEREL	SALMON	CRAB	OTHER	TOTAL	PERCENT BY TYPE
JAPAN											
INDEP TRAWL	355,652.0	73,863.1	14,189.7	550.6	6,995.4	1,701.9	.0	.0	40,085.8	493,038.4	45.8
POLLOCK FAC	476,074.0	21,326.3	8,623.8	51.5	7.0	16.1	.0	.0	4,112.3	510,210.8	47.4
FLOUNDER FAC	998.0	36,308.5	1,048.8	.3	.0	.0	.0	.0	233.9	38,589.5	3.6
LONGLINER	268.6	3,947.8	5,661.7	1,279.4	124.4	.8	.0	.0	416.8	11,699.6	1.1
SALMON FAC	.0	.0	.0	.0	.0	.0	15,442.0	.0	.0	15,442.0	1.4
CRAB POT	.0	.0	.0	.0	.0	.0	.0	7,094.4	.0	7,094.4	.7
SNAIL POT	.0	.0	.0	.0	.0	.0	.0	.0	57.3	57.3	.0
TOTAL	832,992.6	135,445.7	29,524.0	1,881.8	7,126.7	1,718.7	15,442.0	7,094.4	44,906.1	1,076,132.1	100.0
SOVIET UNION											
INDEP TRAWL	2,156.4	10.3	10.9	.0	6.2	937.0	.0	.0	436.0	3,556.7	100.0
KOREA											
INDEP TRAWL	113,864.5	29,820.5	6,346.3	240.5	1,226.7	17,482.9	.0	.0	8,434.2	177,415.6	99.9
LONGLINER	.0	.0	58.0	109.1	6.4	.0	.0	.0	.0	173.5	.1
TOTAL	113,864.5	29,820.5	6,404.3	349.7	1,233.1	17,482.9	.0	.0	8,434.2	177,589.1	100.0
POLAND											
INDEP TRAWL	46,145.9	844.1	627.5	152.2	60.0	43.9	.0	.0	219.9	48,093.4	100.0
TAIWAN											
INDEP TRAWL	4,973.7	161.3	199.7	38.4	27.0	.0	.0	.0	107.9	5,508.0	100.0
WEST GERMANY											
INDEP TRAWL	5,996.3	15.4	552.5	15.9	15.1	42.2	.0	.0	92.1	6,729.5	100.0
ALL NATIONS											
INDEP TRAWL	528,788.9	104,714.7	21,926.5	997.7	8,330.2	20,207.8	.0	.0	49,375.8	734,341.6	55.7
POLLOCK FAC	476,074.0	21,326.3	8,623.8	51.5	7.0	16.1	.0	.0	4,112.3	510,210.8	38.7
FLOUNDER FAC	998.0	36,308.5	1,048.8	.3	.0	.0	.0	.0	233.9	38,589.5	2.9
LONGLINER	268.6	3,947.8	5,719.7	1,388.6	130.8	.8	.0	.0	416.8	11,873.1	.9
SALMON FAC	.0	.0	.0	.0	.0	.0	15,442.0	.0	.0	15,442.0	1.2
CRAB POT	.0	.0	.0	.0	.0	.0	.0	7,094.4	.0	7,094.4	.5
SNAIL POT	.0	.0	.0	.0	.0	.0	.0	.0	57.3	57.3	.0
TOTAL	1,006,129.5	166,297.2	37,318.9	2,438.0	8,468.0	20,224.7	15,442.0	7,094.4	54,196.1	1,317,608.7	100.0

TABLE 12 - FOREIGN CATCH OFF ALASKA BY VESSEL TYPE, NATION, AND SPECIES - 1980 (CONTINUED)

GULF OF ALASKA

NATION/ VESSEL TYPE	POLLOCK	FLOUNDER	PACIFIC COD	SABLE-FISH	ROCKFISH	MACKEREL	SALMON	CRAB	OTHER	TOTAL	PERCENT BY TYPE
JAPAN											
INDEP TRAWL	37,490.3	11,484.8	2,810.1	735.3	14,223.6	1,888.6	.0	.0	3,099.5	71,732.1	66.4
LONGLINER	407.1	438.7	27,771.0	4,096.1	548.1	7.3	.0	.0	2,972.7	36,241.0	33.6
TOTAL	37,897.4	11,923.5	30,581.1	4,831.3	14,771.7	1,895.9	.0	.0	6,072.2	107,973.1	100.0
SOVIET UNION											
INDEP TRAWL	37,000.8	1,838.5	1,942.3	416.0	1,249.0	10,473.5	.0	.0	1,683.0	54,603.0	100.0
KOREA											
INDEP TRAWL	25,005.0	1,733.8	1,657.3	271.0	445.2	736.1	.0	.0	1,555.9	31,404.3	97.6
LONGLINER	7.8	.0	8.5	620.5	147.0	.0	.0	.0	.0	783.8	2.4
TOTAL	25,012.8	1,733.8	1,665.8	891.5	592.2	736.1	.0	.0	1,555.9	32,188.1	100.0
POLAND											
INDEP TRAWL	13,085.0	.2	54.2	.0	33.5	56.9	.0	.0	44.5	13,274.4	100.0
ALL NATIONS											
INDEP TRAWL	112,581.1	15,057.3	6,464.0	1,422.2	15,951.3	13,155.2	.0	.0	6,382.8	171,013.9	82.2
LONGLINER	414.9	438.7	27,779.5	4,716.6	695.1	7.3	.0	.0	2,972.7	37,024.8	17.8
TOTAL	112,996.0	15,496.0	34,243.5	6,138.8	16,646.4	13,162.4	.0	.0	9,355.5	208,038.7	100.0

TABLE 12 - FOREIGN CATCH OFF ALASKA BY VESSEL TYPE, NATION, AND SPECIES - 1980 (CONTINUED)

ALL AREAS

NATION/ VESSEL TYPE	POLLOCK	FLOUNDER	PACIFIC COD	SABLE-FISH	ROCKFISH	MACKEREL	SALMON	CRAB	OTHER	TOTAL	PERCENT BY TYPE
JAPAN											
INDEP TRAWL	393,142.2	85,347.9	16,999.8	1,285.9	21,218.9	3,590.5	.0	.0	43,185.2	564,770.5	47.7
POLLOCK FAC	476,074.0	21,326.3	8,623.8	51.5	7.0	16.1	.0	.0	4,112.3	510,210.8	43.1
FLOUNDER FAC	998.0	36,308.5	1,048.8	.3	.0	.0	.0	.0	233.9	38,589.5	3.3
LONGLINER	675.8	4,386.5	33,432.7	5,375.5	672.5	8.0	.0	.0	3,389.5	47,940.6	4.0
SALMON FAC	.0	.0	.0	.0	.0	.0	15,442.0	.0	.0	15,442.0	1.3
CRAB POT	.0	.0	.0	.0	.0	.0	.0	7,094.4	.0	7,094.4	.6
SNAIL POT	.0	.0	.0	.0	.0	.0	.0	.0	57.3	57.3	.0
TOTAL	870,890.0	147,369.2	60,105.2	6,713.2	21,898.4	3,614.6	15,442.0	7,094.4	50,978.2	1,184,105.2	100.0
SOVIET UNION											
INDEP TRAWL	39,157.1	1,848.7	1,953.2	416.0	1,255.1	11,410.5	.0	.0	2,119.0	58,159.7	100.0
KOREA											
INDEP TRAWL	138,869.6	31,554.3	8,003.6	511.5	1,671.9	18,219.0	.0	.0	9,990.1	208,819.9	99.5
LONGLINER	7.8	.0	66.5	729.6	153.4	.0	.0	.0	.0	957.3	.5
TOTAL	138,877.4	31,554.3	8,070.1	1,241.1	1,825.3	18,219.0	.0	.0	9,990.1	209,777.2	100.0
POLAND											
INDEP TRAWL	59,230.9	844.3	681.8	152.2	93.5	100.8	.0	.0	264.4	61,367.8	100.0
TAIWAN											
INDEP TRAWL	4,973.7	161.3	199.7	38.4	27.0	.0	.0	.0	107.9	5,508.0	100.0
WEST GERMANY											
INDEP TRAWL	5,996.3	15.4	552.5	15.9	15.1	42.2	.0	.0	92.1	6,729.5	100.0
ALL NATIONS											
INDEP TRAWL	641,369.9	119,772.0	28,390.5	2,419.9	24,281.5	33,363.0	.0	.0	55,758.6	905,355.4	59.3
POLLOCK FAC	476,074.0	21,326.3	8,623.8	51.5	7.0	16.1	.0	.0	4,112.3	510,210.8	33.4
FLOUNDER FAC	998.0	36,308.5	1,048.8	.3	.0	.0	.0	.0	233.9	38,589.5	2.5
LONGLINER	683.6	4,386.5	33,499.2	6,105.1	825.9	8.0	.0	.0	3,389.5	48,897.9	3.2
SALMON FAC	.0	.0	.0	.0	.0	.0	15,442.0	.0	.0	15,442.0	1.0
CRAB POT	.0	.0	.0	.0	.0	.0	.0	7,094.4	.0	7,094.4	.5
SNAIL POT	.0	.0	.0	.0	.0	.0	.0	.0	57.3	57.3	.0
TOTAL	1,119,125.5	181,793.2	71,562.4	8,576.8	25,114.4	33,387.1	15,442.0	7,094.4	63,551.6	1,525,647.4	100.0

TABLE 13 - COMPARISON OF FOREIGN CATCH (METRIC TONS)
BY NATION, AREA, AND SPECIES - 1979 AND 1980

NATION/SPECIES	1979 BERING SEA/ ALEUTIANS	1979 GULF OF ALASKA	1979 TOTAL	1980 BERING SEA/ ALEUTIANS	1980 GULF OF ALASKA	1980 TOTAL	PERCENT CHANGE
JAPAN							
GROUNDFISH	1,017,497.1	72,223.4	1,089,720.5	1,053,209.2	107,973.1	1,161,182.3	+7
CRAB	14,953.5	.0	14,953.5	7,094.4	.0	7,094.4	-53
SALMON	15,482.0	.0	15,482.0	15,442.0	.0	15,442.0	+0
HERRING *	1,707.9	.0	1,707.9	329.2	.0	329.2	-81
SNAILS	537.2	.0	537.2	57.3	.0	57.3	-89
TOTAL	1,050,177.7	72,223.4	1,122,401.1	1,076,132.1	107,973.1	1,184,105.2	+5
SOVIET UNION							
GROUNDFISH	145,058.1	31,046.4	176,104.5	3,128.5	54,603.0	57,731.5	-67
HERRING *	5,717.8	.0	5,717.8	428.2	.0	428.2	-93
TOTAL	150,775.9	31,046.4	181,822.3	3,556.7	54,603.0	58,159.7	-68
KOREA							
GROUNDFISH	97,958.1	29,936.7	127,894.8	177,566.4	32,188.1	209,754.5	+64
HERRING *	107.6	.0	107.6	22.7	.0	22.7	-79
TOTAL	98,065.7	29,936.7	128,002.4	177,589.1	32,188.1	209,777.2	+64
POLAND							
GROUNDFISH	18,283.5	19,744.5	38,028.0	48,091.3	13,274.4	61,365.7	+61
HERRING *	.0	.0	.0	2.1	.0	2.1	+100
TOTAL	18,283.5	19,744.5	38,028.0	48,093.4	13,274.4	61,367.8	+61
TAIWAN							
GROUNDFISH	2,013.3	.0	2,013.3	5,507.6	.0	5,507.6	+174
HERRING *	.0	.0	.0	.4	.0	.4	+100
TOTAL	2,013.3	.0	2,013.3	5,508.0	.0	5,508.0	+174
WEST GERMANY							
GROUNDFISH	.0	.0	.0	6,729.5	.0	6,729.5	+100
ALL NATIONS							
GROUNDFISH	1,280,810.1	163,347.3	1,444,157.4	1,294,232.5	208,038.7	1,502,271.1	+4
CRAB	14,953.5	.0	14,953.5	7,094.4	.0	7,094.4	-53
SALMON	15,482.0	.0	15,482.0	15,442.0	.0	15,442.0	+0
HERRING *	7,533.3	.0	7,533.3	782.6	.0	782.6	-90
SNAILS	537.2	.0	537.2	57.3	.0	57.3	-89
TOTAL	1,319,316.1	163,347.3	1,482,663.4	1,317,608.7	208,038.7	1,525,647.4	+3
PERCENT OF TOTAL CATCH BY AREA	89.0	11.0	--	86.4	13.6	--	

* HERRING HARVESTED UP TO 2/8/80, THEN DECLARED A PROHIBITED SPECIES.

TABLE 14 - U.S./FOREIGN JOINT VENTURE CATCH (METRIC TONS)
BY NATION AND AREA - 1980

AREA/SPECIES	U.S./ SOVIET UNION	U.S./ KOREA	TOTAL	PERCENT BY AREA	PERCENT OF TOTAL
BERING SEA/ALEUTIANS					
POLLOCK	4,807.3	5,844.9	10,652.2	90.4	30.9
FLOUNDER	11,759.3	659.7	12,418.9	98.3	36.0
PACIFIC COD	7,280.8	1,175.5	8,456.3	94.8	24.5
ROCKFISH	50.6	12.3	62.9	69.2	.2
SABLEFISH	1.0	37.7	38.7	65.7	.1
MACKEREL	260.0	4.7	264.7	98.8	.8
OTHER FISH	603.1	75.0	678.1	93.2	2.0
TOTAL	24,762.1	7,809.8	32,571.9	94.5	94.5
GULF OF ALASKA					
POLLOCK	77.3	1,058.2	1,135.5	9.6	3.3
FLOUNDER	8.3	200.5	208.8	1.7	.6
PACIFIC COD	8.5	457.1	465.6	5.2	1.4
ROCKFISH	.0	28.0	28.0	30.8	.1
SABLEFISH	.0	20.2	20.2	34.3	.1
MACKEREL	.0	3.1	3.1	1.2	.0
OTHER FISH	.0	49.4	49.4	6.8	.1
TOTAL	94.1	1,816.6	1,910.7	5.5	5.5
ALL AREAS					
POLLOCK	4,884.6	6,903.1	11,787.7	--	34.2
FLOUNDER	11,767.6	860.2	12,627.7	--	36.6
PACIFIC COD	7,289.3	1,632.6	8,922.0	--	25.9
ROCKFISH	50.6	40.3	90.9	--	.3
SABLEFISH	1.0	57.9	58.9	--	.2
MACKEREL	260.0	7.8	267.8	--	.8
OTHER FISH	603.1	124.4	727.5	--	2.1
TOTAL	24,856.2	9,626.4	34,482.5	--	100.0
PERCENT OF TOTAL CATCH BY AREA					
BERING SEA/ALEUTIANS	99.6	81.1	94.5	--	--
GULF OF ALASKA	.4	18.9	5.5	--	--
PERCENT OF TOTAL CATCH BY NATION	72.1	27.9	100.0	--	--

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN FISHING VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

BERING SEA/ALEUTIAN ISLANDS

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
JAPAN													
FAC	0	0	0	1	86	156	186	186	180	124	8	0	927
FAC TRAWL	0	0	0	7	1,595	2,552	2,852	2,852	2,759	1,680	76	0	14,373
INDEP TRAWL	1,664	2,967	2,623	1,981	2,637	1,587	2,091	2,236	2,022	2,294	2,473	1,142	25,717
LL	57	80	62	104	189	101	140	23	1	14	231	301	1,303
CFAC	0	7	31	30	31	30	9	0	0	0	0	0	138
CPOT	0	28	124	120	124	120	36	0	0	0	0	0	552
INPOT	0	0	61	218	409	410	309	195	42	0	0	0	1,644
SNPOT	0	0	0	0	0	0	19	31	0	0	0	0	50
SALMON FAC	0	0	0	0	0	120	120	0	0	0	0	0	240
SALMON GNT	0	0	0	0	0	5,160	5,160	0	0	0	0	0	10,320
SUPPORT	57	126	150	95	180	268	368	405	341	220	140	91	2,441
TOTAL	1,778	3,208	3,051	2,556	5,251	10,504	11,290	5,928	5,345	4,332	2,928	1,534	57,705
SOVIET UNION													
INDEP TRAWL	110	0	0	0	0	0	0	0	0	0	0	0	110
SUPPORT	3	0	0	0	0	0	0	0	0	0	2	0	5
TOTAL	113	0	0	0	0	0	0	0	0	0	2	0	115
KOREA													
INDEP TRAWL	347	319	330	277	353	275	311	255	358	239	406	442	3,912
LL	0	0	0	0	0	6	10	0	15	1	34	5	71
SUPPORT	32	52	61	34	3	25	29	63	50	21	12	15	397
TOTAL	379	371	391	311	356	306	350	318	423	261	452	462	4,380
POLAND													
INDEP TRAWL	0	152	252	313	183	130	64	0	0	59	379	150	1,682
SUPPORT	0	0	11	22	4	0	6	0	0	0	0	0	43
TOTAL	0	152	263	335	187	130	70	0	0	59	379	150	1,725
TAIWAN													
INDEP TRAWL	15	50	66	35	48	41	31	20	0	0	0	0	306

NOTE: TABLE DOES NOT INCLUDE EFFORT BY JOINT VENTURE VESSELS OR SALMON SUPPORT VESSELS.

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN FISHING VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

BERING SEA/ALEUTIAN ISLANDS (CONTINUED)

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
WEST GERMANY													
INDEP TRAWL	0	0	0	0	0	0	0	3	30	21	25	29	108
ALL NATIONS													
FAC	0	0	0	1	86	156	186	186	180	124	8	0	927
FAC TRAWL	0	0	0	7	1,595	2,552	2,852	2,852	2,759	1,680	76	0	14,373
INDEP TRAWL	2,136	3,488	3,271	2,606	3,221	2,033	2,497	2,514	2,410	2,613	3,283	1,763	31,835
LL	57	80	62	104	189	107	150	23	16	15	265	306	1,374
CFAC	0	7	31	30	31	30	9	0	0	0	0	0	138
CPOT	0	28	124	120	124	120	36	0	0	0	0	0	552
INPOT	0	0	61	218	409	410	309	195	42	0	0	0	1,644
SNPOT	0	0	0	0	0	0	19	31	0	0	0	0	50
SALMON FAC	0	0	0	0	0	120	120	0	0	0	0	0	240
SALMON GNT	0	0	0	0	0	5,160	5,160	0	0	0	0	0	10,320
SUPPORT	92	178	222	151	187	293	403	468	391	241	154	106	2,886
TOTAL	2,285	3,781	3,771	3,237	5,842	10,981	11,741	6,269	5,798	4,673	3,786	2,175	64,339

NOTE: TABLE DOES NOT INCLUDE EFFORT BY JOINT VENTURE VESSELS OR SALMON SUPPORT VESSELS.

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN FISHING VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

GULF OF ALASKA

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
JAPAN													
INDEP TRAWL	12	7	13	0	9	540	525	506	627	619	235	7	3,100
LL	317	366	270	255	337	389	216	261	521	547	217	5	3,701
SUPPORT	0	0	0	0	1	43	59	74	81	98	27	2	385
TOTAL	329	373	283	255	347	972	800	841	1,229	1,264	479	14	7,186
SOVIET UNION													
INDEP TRAWL	0	64	95	218	260	303	302	256	277	74	0	0	1,849
SUPPORT	7	0	15	16	13	7	21	37	40	14	0	0	170
TOTAL	7	64	110	234	273	310	323	293	317	88	0	0	2,019
KOREA													
INDEP TRAWL	0	0	0	0	0	37	47	103	26	194	0	0	407
LL	0	0	0	1	31	43	52	62	43	61	3	0	296
SUPPORT	0	0	7	0	0	0	0	1	2	11	2	0	23
TOTAL	0	0	7	1	31	80	99	166	71	266	5	0	726
POLAND													
INDEP TRAWL	215	102	3	0	0	7	0	0	28	28	49	199	631
SUPPORT	0	0	0	0	0	0	0	0	0	0	38	64	102
TOTAL	215	102	3	0	0	7	0	0	28	28	87	263	733
ALL NATIONS													
INDEP TRAWL	227	173	111	218	269	887	874	865	958	915	284	206	5,987
LL	317	366	270	256	368	432	268	323	564	608	220	5	3,997
SUPPORT	7	0	22	16	14	50	80	112	123	123	67	66	680
TOTAL	551	539	403	490	651	1,369	1,222	1,300	1,645	1,646	571	277	10,664

NOTE: TABLE DOES NOT INCLUDE EFFORT BY JOINT VENTURE VESSELS OR SALMON SUPPORT VESSELS.

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN FISHING VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

ALL AREAS

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
JAPAN													
FAC	0	0	0	1	86	156	186	186	180	124	8	0	927
FAC TRAWL	0	0	0	7	1,595	2,552	2,852	2,852	2,759	1,680	76	0	14,373
INDEP TRAWL	1,676	2,974	2,636	1,981	2,646	2,127	2,616	2,742	2,649	2,913	2,708	1,149	28,817
LL	374	446	332	359	526	490	356	284	522	561	448	306	5,004
CFAC	0	7	31	30	31	30	9	0	0	0	0	0	138
CPOT	0	28	124	120	124	120	36	0	0	0	0	0	552
INPOT	0	0	61	218	409	410	309	195	42	0	0	0	1,644
SNPOT	0	0	0	0	0	0	19	31	0	0	0	0	50
SALMON FAC	0	0	0	0	0	120	120	0	0	0	0	0	240
SALMON GNT	0	0	0	0	0	5,160	5,160	0	0	0	0	0	10,320
SUPPORT	57	126	150	95	181	311	427	479	422	318	167	93	2,826
TOTAL	2,107	3,581	3,334	2,811	5,598	11,476	12,090	6,769	6,574	5,596	3,407	1,548	64,891
SOVIET UNION													
INDEP TRAWL	110	64	95	218	260	303	302	256	277	74	0	0	1,959
SUPPORT	10	0	15	16	13	7	21	37	40	14	2	0	175
TOTAL	120	64	110	234	273	310	323	293	317	88	2	0	2,134
KOREA													
INDEP TRAWL	347	319	330	277	353	312	358	358	384	433	406	442	4,319
LL	0	0	0	1	31	49	62	62	58	62	37	5	367
SUPPORT	32	52	68	34	3	25	29	64	52	32	14	15	420
TOTAL	379	371	398	312	387	386	449	484	494	527	457	462	5,106
POLAND													
INDEP TRAWL	215	254	255	313	183	137	64	0	28	87	428	349	2,313
SUPPORT	0	0	11	22	4	0	6	0	0	0	38	64	145
TOTAL	215	254	266	335	187	137	70	0	28	87	466	413	2,458
TAIWAN													
INDEP TRAWL	15	50	66	35	48	41	31	20	0	0	0	0	306

NOTE: TABLE DOES NOT INCLUDE EFFORT BY JOINT VENTURE VESSELS OR SALMON SUPPORT VESSELS.

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN FISHING VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** ALL AREAS (CONTINUED) ***

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
WEST GERMANY													
INDEP TRAWL	0	0	0	0	0	0	0	3	30	21	25	29	108
ALL NATIONS													
FAC	0	0	0	1	86	156	186	186	180	124	8	0	927
FAC TRAWL	0	0	0	7	1,595	2,552	2,852	2,852	2,759	1,680	76	0	14,373
INDEP TRAWL	2,363	3,661	3,382	2,824	3,490	2,920	3,371	3,379	3,368	3,528	3,567	1,969	37,822
LL	374	446	332	360	557	539	418	346	580	623	485	311	5,371
CFAC	0	7	31	30	31	30	9	0	0	0	0	0	138
CPOT	0	28	124	120	124	120	36	0	0	0	0	0	552
INPOT	0	0	61	218	409	410	309	195	42	0	0	0	1,644
SNPOT	0	0	0	0	0	0	19	31	0	0	0	0	50
SALMON FAC	0	0	0	0	0	120	120	0	0	0	0	0	240
SALMON GNT	0	0	0	0	0	5,160	5,160	0	0	0	0	0	10,320
SUPPORT	99	178	244	167	201	343	483	580	514	364	221	172	3,566
TOTAL	2,836	4,320	4,174	3,727	6,493	12,350	12,963	7,569	7,443	6,319	4,357	2,452	75,003

NOTE: TABLE DOES NOT INCLUDE EFFORT BY JOINT VENTURE VESSELS OR SALMON SUPPORT VESSELS.

TABLE 16 - COMPARISON OF FOREIGN FISHING EFFORT (VESSEL DAYS) BY NATION, VESSEL TYPE, AND AREA - 1979 AND 1980

NATION AND VESSEL TYPE	1979 BERING SEA/ ALEUTIANS	1979 GULF OF ALASKA	1979 TOTAL	1980 BERING SEA/ ALEUTIANS	1980 GULF OF ALASKA	1980 TOTAL	PERCENT CHANGE
JAPAN							
FAC/FAC TRAWL	14,613	0	14,613	15,300	0	15,300	+5
INDEP TRAWL	24,221	2,291	26,512	25,717	3,100	28,817	+9
LL	1,781	2,944	4,725	1,303	3,701	5,004	+6
CFAC/CPOT	2,637	0	2,637	690	0	690	-74
INPOT	1,091	0	1,091	1,644	0	1,644	+51
SNPOT	136	0	136	50	0	50	-63
SALMON FAC/GNT	9,328	0	9,328	10,560	0	10,560	+13
SUPPORT	2,623	289	2,912	2,441	385	2,826	-3
TOTAL	56,430	5,524	61,954	57,705	7,186	64,891	+5
SOVIET UNION							
INDEP TRAWL	3,868	932	4,800	110	1,849	1,959	-59
SUPPORT	186	66	252	5	170	175	-31
TOTAL	4,054	998	5,052	115	2,019	2,134	-58
KOREA							
FAC/FAC TRAWL	0	56	56	0	0	0	-100
INDEP TRAWL	2,614	676	3,290	3,912	407	4,319	+31
LL	95	294	389	71	296	367	-6
SUPPORT	347	340	687	397	23	420	-39
TOTAL	3,056	1,366	4,422	4,380	726	5,106	+15
POLAND							
INDEP TRAWL	569	598	1,167	1,682	631	2,313	+98
SUPPORT	27	26	53	43	102	145	+174
TOTAL	596	624	1,220	1,725	733	2,458	+101
TAIWAN							
INDEP TRAWL	205	0	205	306	0	306	+49
WEST GERMANY							
INDEP TRAWL	0	0	0	108	0	108	+100
MEXICO							
INDEP TRAWL	6	545	551	0	0	0	-100
ALL NATIONS							
FAC/FAC TRAWL	14,613	56	14,669	15,300	0	15,300	+4
INDEP TRAWL	31,483	5,042	36,525	31,835	5,987	37,822	+4
LL	1,876	3,238	5,114	1,374	3,997	5,371	+5
CFAC/CPOT	2,637	0	2,637	690	0	690	-74
INPOT	1,091	0	1,091	1,644	0	1,644	+51
SNPOT	136	0	136	50	0	50	-63
SALMON FAC/GNT	9,328	0	9,328	10,560	0	10,560	+13
SUPPORT	3,183	721	3,904	2,886	680	3,566	-9
TOTAL	64,347	9,057	73,404	64,339	10,664	75,003	+2

NOTE: TABLE DOES NOT INCLUDE EFFORT BY JOINT VENTURE VESSELS OR SALMON SUPPORT VESSELS.

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN JOINT VENTURE VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** BERING SEA/ALEUTIAN ISLANDS ***

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SOVIET UNION													
FAC	25	17	0	0	0	0	0	0	0	0	0	0	42
TRAWL	38	98	111	59	42	62	79	93	58	0	0	0	640
SUPPORT	0	0	9	0	8	2	22	9	6	0	0	0	56
TOTAL	63	115	120	59	50	64	101	102	64	0	0	0	738
KOREA													
FAC	0	0	2	0	0	7	31	31	8	0	0	0	79
TRAWL	0	0	0	11	30	24	23	29	30	1	0	0	148
SUPPORT	0	0	0	0	4	0	0	0	0	0	0	0	4
TOTAL	0	0	2	11	34	31	54	60	38	1	0	0	231
ALL NATIONS													
FAC	25	17	2	0	0	7	31	31	8	0	0	0	121
TRAWL	38	98	111	70	72	86	102	122	88	1	0	0	788
SUPPORT	0	0	9	0	12	2	22	9	6	0	0	0	60
TOTAL	63	115	122	70	84	95	155	162	102	1	0	0	969

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN JOINT VENTURE VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** GULF OF ALASKA ***

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SOVIET UNION													
TRAWL	0	14	5	1	0	1	0	0	0	0	0	0	21
KOREA													
FAC	0	0	3	30	30	23	0	0	0	0	0	0	86
TRAWL	0	0	0	0	1	0	0	2	5	0	0	0	8
SUPPORT	0	0	0	0	20	13	0	0	0	0	0	0	33
TOTAL	0	0	3	30	51	36	0	2	5	0	0	0	127
ALL NATIONS													
FAC	0	0	3	30	30	23	0	0	0	0	0	0	86
TRAWL	0	14	5	1	1	1	0	2	5	0	0	0	29
SUPPORT	0	0	0	0	20	13	0	0	0	0	0	0	33
TOTAL	0	14	8	31	51	37	0	2	5	0	0	0	148

TABLE 17 - EFFORT (VESSEL DAYS) BY FOREIGN JOINT VENTURE VESSELS OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** ALL AREAS ***

NATION/ VESSEL TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
SOVIET UNION													
FAC	25	17	0	0	0	0	0	0	0	0	0	0	42
TRAWL	38	112	116	60	42	63	79	93	58	0	0	0	661
SUPPORT	0	0	9	0	8	2	22	9	6	0	0	0	56
TOTAL	63	129	125	60	50	65	101	102	64	0	0	0	759
KOREA													
FAC	0	0	5	30	30	30	31	31	8	0	0	0	165
TRAWL	0	0	0	11	31	24	23	31	35	1	0	0	156
SUPPORT	0	0	0	0	24	13	0	0	0	0	0	0	37
TOTAL	0	0	5	41	85	67	54	62	43	1	0	0	358
ALL NATIONS													
FAC	25	17	5	30	30	30	31	31	8	0	0	0	207
TRAWL	38	112	116	71	73	87	102	124	93	1	0	0	817
SUPPORT	0	0	9	0	32	15	22	9	6	0	0	0	93
TOTAL	63	129	130	101	135	132	155	164	107	1	0	0	1,117

TABLE 18 - NUMBER OF FOREIGN FISHING VESSELS OPERATING OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** BERING SEA/ALEUTIAN ISLANDS ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	TOTAL FOR YEAR
JAPAN															
FAC	0	0	0	1	4	6	6	6	6	6	1	0	0	6	6
FAC TRAWL	0	0	0	7	67	92	92	92	92	91	10	0	0	92	92
INDEP TRAWL	97	107	106	107	102	100	88	97	92	100	106	82	82	107	126
LL	10	13	10	14	19	12	13	5	1	3	19	19	1	19	22
CFAC	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1
CPOT	0	4	4	4	4	4	4	0	0	0	0	0	0	4	4
INPOT	0	0	6	10	14	14	12	7	2	0	0	0	0	14	14
SNPOT	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
SALMON FAC	0	0	0	0	0	4	4	0	0	0	0	0	0	4	4
SALMON GNT	0	0	0	0	0	172	172	0	0	0	0	0	0	172	172
SUPPORT	8	14	20	12	18	28	38	47	42	33	17	7	7	47	61
TOTAL	115	139	147	156	229	433	431	255	235	232	153	108	108	433	501
SOVIET UNION															
INDEP TRAWL	19	0	0	0	0	0	0	0	0	0	0	0	0	19	19
SUPPORT	1	0	0	0	0	0	0	0	0	0	1	0	0	1	2
TOTAL	20	0	0	0	0	0	0	0	0	0	1	0	0	20	21
KOREA															
INDEP TRAWL	15	17	17	15	16	17	16	17	20	21	20	21	15	21	22
LL	0	0	0	0	0	1	2	0	1	1	2	1	0	2	2
SUPPORT	2	4	4	2	1	2	3	6	4	3	2	1	1	6	9
TOTAL	17	21	21	17	17	20	21	23	25	25	24	23	17	25	33
POLAND															
INDEP TRAWL	0	10	11	13	10	7	3	0	0	9	20	14	0	20	24
SUPPORT	0	0	1	1	1	0	1	0	0	0	0	0	0	1	2
TOTAL	0	10	12	14	11	7	4	0	0	9	20	14	0	20	26
TAIWAN															
INDEP TRAWL	2	3	3	3	3	3	1	1	0	0	0	0	0	3	4
WEST GERMANY															
INDEP TRAWL	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1
ALL NATIONS															
FAC	0	0	0	1	4	6	6	6	6	6	1	0	0	6	6
FAC TRAWL	0	0	0	7	67	92	92	92	92	91	10	0	0	92	92
INDEP TRAWL	133	137	137	138	131	127	108	116	113	131	147	118	108	147	196
LL	10	13	10	14	19	13	15	5	2	4	21	20	2	21	24
CFAC	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1
CPOT	0	4	4	4	4	4	4	0	0	0	0	0	0	4	4
INPOT	0	0	6	10	14	14	12	7	2	0	0	0	0	14	14
SNPOT	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
SALMON FAC	0	0	0	0	0	4	4	0	0	0	0	0	0	4	4
SALMON GNT	0	0	0	0	0	172	172	0	0	0	0	0	0	172	172
SUPPORT	11	18	25	15	20	30	42	53	46	36	20	8	8	53	74
TOTAL	154	173	183	190	260	463	457	280	261	267	199	146	146	463	586

NOTE: TABLE DOES NOT INCLUDE JOINT VENTURE VESSELS
OR SALMON SUPPORT VESSELS.

TABLE 18 - NUMBER OF FOREIGN FISHING VESSELS OPERATING OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** GULF OF ALASKA ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	TOTAL FOR YEAR
JAPAN															
INDEP TRAWL	1	1	1	0	4	20	18	22	22	22	15	1	0	22	22
LL	16	19	18	16	19	19	13	15	21	20	16	3	3	21	22
SUPPORT	0	0	0	0	1	8	11	13	12	11	6	1	0	13	24
TOTAL	17	20	19	16	24	47	42	50	55	53	37	5	5	55	68
SOVIET UNION															
INDEP TRAWL	0	4	7	10	14	13	12	14	12	6	0	0	0	14	22
SUPPORT	1	0	3	2	2	1	3	5	3	1	0	0	0	5	11
TOTAL	1	4	10	12	16	14	15	19	15	7	0	0	0	19	33
KOREA															
INDEP TRAWL	0	0	0	0	0	3	5	13	11	18	0	0	0	18	19
LL	0	0	0	1	1	2	2	2	2	2	1	0	0	2	2
SUPPORT	0	0	1	0	0	0	0	1	1	2	1	0	0	2	4
TOTAL	0	0	1	1	1	5	7	16	14	22	2	0	0	22	25
POLAND															
INDEP TRAWL	12	12	2	0	0	2	0	0	2	5	7	17	0	17	22
SUPPORT	0	0	0	0	0	0	0	0	0	0	3	4	0	4	4
TOTAL	12	12	2	0	0	2	0	0	2	5	10	21	0	21	26
ALL NATIONS															
INDEP TRAWL	13	17	10	10	18	38	35	49	47	51	22	18	10	51	85
LL	16	19	18	17	20	21	15	17	23	22	17	3	3	23	24
SUPPORT	1	0	4	2	3	9	14	19	16	14	10	5	0	19	43
TOTAL	30	36	32	29	41	68	64	85	86	87	49	26	26	87	152

NOTE: TABLE DOES NOT INCLUDE JOINT VENTURE VESSELS
OR SALMON SUPPORT VESSELS.

TABLE 18 - NUMBER OF FOREIGN FISHING VESSELS OPERATING OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** ALL AREAS ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	TOTAL FOR YEAR
JAPAN															
FAC	0	0	0	1	4	6	6	6	6	6	1	0	0	6	6
FAC TRAWL	0	0	0	7	67	92	92	92	92	91	10	0	0	92	92
INDEP TRAWL	97	107	107	107	102	113	104	114	113	117	109	82	82	117	127
LL	17	19	18	19	21	19	16	15	21	20	21	19	15	21	22
CFAC	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1
CPOT	0	4	4	4	4	4	4	0	0	0	0	0	0	4	4
INPOT	0	0	6	10	14	14	12	7	2	0	0	0	0	14	14
SNPOT	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
SALMON FAC	0	0	0	0	0	4	4	0	0	0	0	0	0	4	4
SALMON GNT	0	0	0	0	0	172	172	0	0	0	0	0	0	172	172
SUPPORT	8	14	20	12	18	30	42	51	46	35	17	7	7	51	63
TOTAL	122	145	156	161	231	455	454	286	280	268	158	108	108	455	504
SOVIET UNION															
INDEP TRAWL	19	4	7	10	14	13	12	14	12	6	0	0	0	19	33
SUPPORT	1	0	3	2	2	1	3	5	3	1	1	0	0	5	11
TOTAL	20	4	10	12	16	14	15	19	15	7	1	0	0	20	44
KOREA															
INDEP TRAWL	15	17	17	15	16	17	16	17	20	21	20	21	15	21	22
LL	0	0	0	1	1	2	2	2	2	2	2	1	0	2	2
SUPPORT	2	4	4	2	1	2	3	6	5	3	3	1	1	6	9
TOTAL	17	21	21	18	18	21	21	25	27	26	25	23	17	27	33
POLAND															
INDEP TRAWL	12	12	12	13	10	7	3	0	2	9	20	18	0	20	24
SUPPORT	0	0	1	1	1	0	1	0	0	0	3	4	0	4	5
TOTAL	12	12	13	14	11	7	4	0	2	9	23	22	0	23	29
TAIWAN															
INDEP TRAWL	2	3	3	3	3	3	1	1	0	0	0	0	0	3	4
WEST GERMANY															
INDEP TRAWL	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1
ALL NATIONS															
FAC	0	0	0	1	4	6	6	6	6	6	1	0	0	6	6
FAC TRAWL	0	0	0	7	67	92	92	92	92	91	10	0	0	92	92
INDEP TRAWL	145	143	146	148	145	153	136	147	148	154	150	122	122	154	211
LL	17	19	18	20	22	21	18	17	23	22	23	20	17	23	24
CFAC	0	1	1	1	1	1	1	0	0	0	0	0	0	1	1
CPOT	0	4	4	4	4	4	4	0	0	0	0	0	0	4	4
INPOT	0	0	6	10	14	14	12	7	2	0	0	0	0	14	14
SNPOT	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
SALMON FAC	0	0	0	0	0	4	4	0	0	0	0	0	0	4	4
SALMON GNT	0	0	0	0	0	172	172	0	0	0	0	0	0	172	172
SUPPORT	11	18	28	17	22	33	49	62	54	39	24	12	11	62	88
TOTAL	173	185	203	208	279	500	495	332	325	311	208	154	154	500	615

NOTE: TABLE DOES NOT INCLUDE JOINT VENTURE VESSELS
OR SALMON SUPPORT VESSELS.

TABLE 19 - NUMBER OF FOREIGN JOINT VENTURE VESSELS OPERATING OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** BERING SEA/ALEUTIAN ISLANDS ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	TOTAL FOR YEAR
SOVIET UNION															
FAC	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
TRAWL	3	6	4	2	4	3	3	3	3	0	0	0	0	6	10
SUPPORT	0	0	2	0	2	2	4	4	2	0	0	0	0	4	8
TOTAL	4	7	6	2	6	5	7	7	5	0	0	0	0	7	19
KOREA															
FAC	0	0	1	0	0	1	1	1	1	0	0	0	0	1	1
TRAWL	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1
SUPPORT	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
TOTAL	0	0	1	1	2	2	2	2	2	1	0	0	0	2	3
ALL NATIONS															
FAC	1	1	1	0	0	1	1	1	1	0	0	0	0	1	2
TRAWL	3	6	4	3	5	4	4	4	4	1	0	0	0	6	11
SUPPORT	0	0	2	0	3	2	4	4	2	0	0	0	0	4	9
TOTAL	4	7	7	3	8	7	9	9	7	1	0	0	0	9	22

TABLE 19 - NUMBER OF FOREIGN JOINT VENTURE VESSELS OPERATING OFF ALASKA
BY MONTH, NATION, AND VESSEL TYPE - 1980

*** GULF OF ALASKA ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	TOTAL FOR YEAR
SOVIET UNION															
TRAWL	0	1	3	1	0	1	0	0	0	0	0	0	0	3	5
KOREA															
FAC	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1
TRAWL	0	0	0	0	1	0	0	1	1	0	0	0	0	1	2
SUPPORT	0	0	0	0	2	1	0	0	0	0	0	0	0	2	2
TOTAL	0	0	1	1	4	2	0	1	1	0	0	0	0	4	5
ALL NATIONS															
FAC	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1
TRAWL	0	1	3	1	1	1	0	1	1	0	0	0	0	3	7
SUPPORT	0	0	0	0	2	1	0	0	0	0	0	0	0	2	2
TOTAL	0	1	4	2	4	3	0	1	1	0	0	0	0	4	10

TABLE 19 - NUMBER OF FOREIGN JOINT VENTURE VESSELS OPERATING OFF ALASKA BY MONTH, NATION, AND VESSEL TYPE - 1980

*** ALL AREAS ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MIN	MAX	TOTAL FOR YEAR
SOVIET UNION															
FAC	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1
TRAWL	3	6	4	2	4	3	3	3	3	0	0	0	0	6	10
SUPPORT	0	0	2	0	2	2	4	4	2	0	0	0	0	4	8
TOTAL	4	7	6	2	6	5	7	7	5	0	0	0	0	7	19
KOREA															
FAC	0	0	1	1	1	1	1	1	1	0	0	0	0	1	1
TRAWL	0	0	0	1	1	1	1	1	2	1	0	0	0	2	2
SUPPORT	0	0	0	0	2	1	0	0	0	0	0	0	0	2	2
TOTAL	0	0	1	2	4	3	2	2	3	1	0	0	0	4	5
ALL NATIONS															
FAC	1	1	1	1	1	1	1	1	1	0	0	0	0	1	2
TRAWL	3	6	4	3	5	4	4	4	5	1	0	0	0	6	12
SUPPORT	0	0	2	0	4	3	4	4	2	0	0	0	0	4	10
TOTAL	4	7	7	4	10	8	9	9	8	1	0	0	0	10	24

TABLE 20 - TOTAL NUMBER OF FOREIGN VESSELS OFF ALASKA
BY MONTH AND NATION - 1979 AND 1980

	JAPAN		SOVIET UNION		KOREA		POLAND		TAIWAN		WEST GERMANY		MEXICO		ALL NATIONS		PERCENT CHANGE
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	
Jan	119	122	34	24	13	17	0	12	3	2	0	0	2	0	171	177	+4
Feb	154	145	40	11	13	21	0	12	2	3	0	0	2	0	211	192	-9
Mar	153	156	39	12	16	22	2	13	2	3	0	0	2	0	214	206	-4
Apr	166	161	20	14	17	20	3	14	1	3	0	0	0	0	207	212	+2
May	238	231	4	21	20	22	5	11	1	3	0	0	1	0	269	288	+7
Jun	458	455	16	17	19	23	5	7	0	3	0	0	2	0	500	505	+1
Jul	469	454	21	20	18	22	3	4	2	1	0	0	2	0	515	501	-3
Aug	290	286	28	22	19	27	4	0	0	1	0	1	3	0	344	337	-2
Sep	274	280	23	19	23	29	4	2	0	0	0	1	3	0	327	331	+1
Oct	248	268	45	7	24	26	13	9	0	0	0	1	3	0	333	311	-7
Nov	152	158	45	1	19	25	14	23	0	0	0	1	3	0	233	208	-11
Dec	74	108	22	0	16	23	8	22	0	0	0	1	1	0	121	154	+27
ALL YEAR	508	504	87	52	31	34	15	29	3	4	0	1	3	0	647	624	-4

TABLE 21 - COMPARISON OF TOTAL FOREIGN EFFORT (VESSEL DAYS)
BY NATION AND AREA - 1979 AND 1980

NATION	1979			1980			PERCENT CHANGE
	BERING SEA/ ALEUTIANS	GULF OF ALASKA	TOTAL	BERING SEA/ ALEUTIANS	GULF OF ALASKA	TOTAL	
JAPAN	56,430	5,524	61,954	57,705	7,186	64,891	+5
SOVIET UNION	4,054	1,040	5,094	853	2,040	2,893	-43
KOREA	3,056	1,514	4,570	4,611	853	5,464	+20
POLAND	596	624	1,220	1,725	733	2,458	+101
TAIWAN	205	0	205	306	0	306	+49
WEST GERMANY	0	0	0	108	0	108	+100
MEXICO	6	545	551	0	0	0	-100
ALL NATIONS	64,347	9,247	73,594	65,308	10,812	76,120	+3

TABLE 22 - FOREIGN SCIENTIFIC RESEARCH VESSELS IN FCZ OFF ALASKA - 1980

VESSEL / CALL SIGN	NATION	AREA	PERIOD	RESEARCH PROGRAM
FUKUYOSHI MARU NO. 8 / JAPO	JAPAN	GULF OF ALASKA AND ALEUTIANS	MAY-AUGUST	SABLEFISH TAGGING (LONGLINE GEAR)
HATSUE MARU NO. 62 / 7JXS	JAPAN	ALEUTIANS AND BERING SEA	JULY-NOVEMBER	TRAWL SURVEY (GROUNDFISH)
HOKKO MARU / 8JRY	JAPAN	NORTH PACIFIC	JUNE	SALMON LONGLINE, TAGGING
HOKUHO MARU / JBBA	JAPAN	NORTH PACIFIC	MAY-JULY	SALMON GILLNET, PORPOISE
HOKUSEI MARU / JKCQ	JAPAN	NORTH PACIFIC	JULY-AUGUST	TRAWL-GILLNET SURVEY (SALMON)
HOKUSHIN MARU / JCPV	JAPAN	NORTH PACIFIC	MAY-JULY	SALMON GILLNET, PORPOISE
HOYO MARU NO. 81 / JHKA	JAPAN	NORTH PACIFIC	MAY-AUGUST	SALMON GILLNET, PORPOISE
IWAKI MARU / JCIQ	JAPAN	NORTH PACIFIC	APRIL-JULY	SALMON GILLNET, PORPOISE
KUMAMOTO MARU / JFET	JAPAN	NORTH PACIFIC	MAY-JULY	SALMON GILLNET, PORPOISE
MEIHO MARU NO. 17 / 7LGU	JAPAN	BERING SEA	JULY-AUGUST	SNAIL ABUNDANCE (POTS)
OSHORO MARU / JCDN	JAPAN	NORTH PACIFIC	JUNE-AUGUST	SALMON, OCEANOGRAPHY, PORPOISE
RIASU MARU NO. 2 / 7KIL	JAPAN	NORTH PACIFIC	MAY-JULY	SALMON GILLNET, PORPOISE
WAKATAKE MARU / JHEU	JAPAN	BERING SEA	MAY-AUGUST	POT AND TRAWL SURVEYS (KING AND TANNER CRAB)
OH DAE SAN / 6MKM	KOREA	GULF OF ALASKA	JUNE-AUGUST	TRAWL SURVEY (GROUNDFISH)
ACADEMIC BERG / UQAE	USSR	GULF OF ALASKA	MARCH-JUNE	TRAWL SURVEY (POLLOCK)
ARTYOM / ESAN	USSR	BERING SEA	APRIL-MAY	TRAWL SURVEY (POLLOCK)
EKVATOR / ULZM	USSR	BERING SEA	SEPT.-DEC.	TRAWL SURVEY (HERRING AND GROUNDFISH)
POSEYDON / EWGF	USSR	GULF OF ALASKA	NOVEMBER	TRAWL SURVEY (HAKE)
SRT 8449 / UKIQ	USSR	BERING SEA	MAY-JUNE	TRAWL SURVEY (POLLOCK)

Table 23 - Summary of Japanese Tanner Crab Fishery off Alaska - 1980

	Factory Fleets	Independent Crab Pot	All Vessels
Number of vessels			
Factoryships	1	--	1
Crab pot vessels	4	14	18
Total	5	14	19
Effort days			
Factoryships	138	--	138
Crab pot vessels	552	1,644	2,196
Total	690	1,644	2,334
Tanner crab landed by type (metric tons)			
C. opilio	2,290	3,570	5,860
C. bairdi	475	360	835
C. tanneri	129	270	399
Total	2,894	4,200	7,094
Average catch per day per catcher vessel (metric tons)	5.24	2.55	3.23
Number of crabs landed	5,497,747	6,251,527	11,749,274

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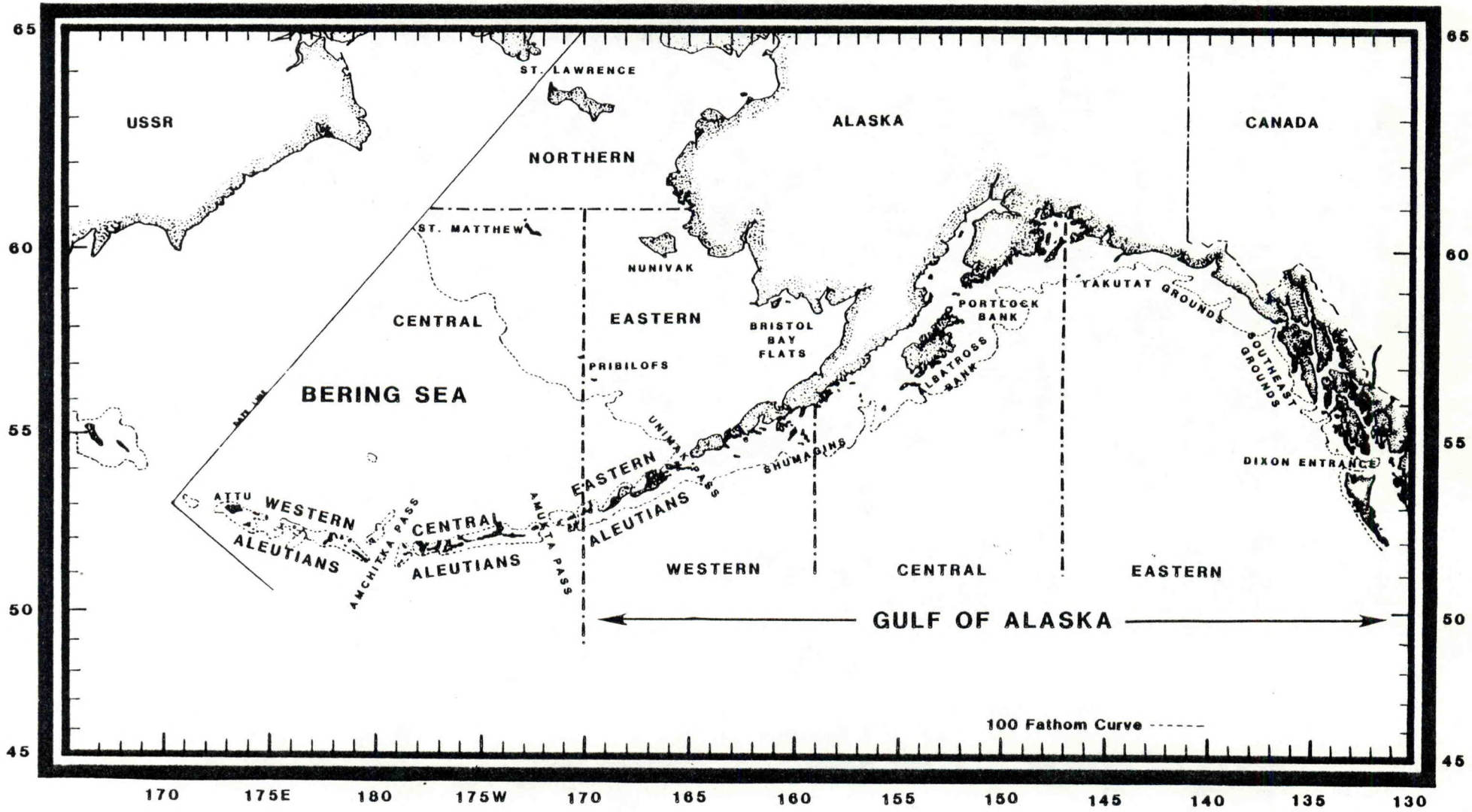
APPENDICES

Appendix 1

CHART OF AREAS REFERRED TO IN TEXT



Appendix 2 - General Terms and Abbreviations Used in Text

Aleutian Islands	Area west of 170° W. longitude extending westward to the U.S./Soviet Convention Line and north to 55° N. latitude.
Allocation	Amount of catch allowed to be taken; also referred to as quota.
Bering Sea	All waters north of the Alaska Peninsula west to 170° W. longitude, and all waters north of the Aleutian Islands north of latitude 55° N. The U.S. western boundary of the Bering Sea is the U.S./Soviet Convention Line of 1867 extending from the North Pacific Ocean to the Bering Straits.
Contiguous Fishery Zone (CFZ)	Territorial waters, 3 to 12 miles off the coast.
Domestic Fisheries	U.S. vessels fishing off Alaska for crab, halibut, salmon, shrimp, and groundfish.
Fathom	6 feet, or approximately 2 meters.
FCZ	Fishery Conservation Zone established by the Magnuson Fisheries Conservation and Management Act of 1976, extending from 3 to 200 miles off the coast of the United States.
Fishing Gear	Any device used to land fish, including trawl, longline, pot, troll, and net gear.
Fishery Management Plan	Final management package formulated by the North Pacific Fishery Management Council covering an entire fishery management scheme.
Fisheries Violation	Any violation of fishery laws, conventions, acts, or treaties.
Foreign Fisheries	Foreign vessels fishing off Alaska from nations including Japan, the Soviet Union, Republic of Korea, Taiwan, Poland, and West Germany.

Appendix 2 - General Terms and Abbreviations Used in Text (continued)

GIFA	Governing International Fisheries Agreement.
GMT	Greenwich Mean Time. Alaskan waters are in GMT time zones +8 to +11.
Gulf of Alaska	All North Pacific waters north of Dixon Entrance westward to 170° W. longitude.
INPFC	International North Pacific Fishery Convention.
IPHC	International Pacific Halibut Convention.
Metric Ton (m. t.)	2,204.6 U.S. pounds.
MFCMA	Magnuson Fisheries Conservation and Management Act of 1976, 16 USC 1801-1882, 90 Stat. 331 (1976).
NMFS	National Marine Fisheries Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.
NPFMC	North Pacific Fishery Management Council.
Observer Program	NMFS program to place U.S. scientists and technicians aboard foreign fishing vessels to collect biological information on the catch landed.
Permit	Agreement by the United States to allow a vessel to operate under specific guidelines within the FCZ. Abbreviations used in Appendices 3-9 include: Bering Sea/Aleutian Islands Groundfish (B) Gulf of Alaska Groundfish (G) Bering Sea Snails (S) Tanner Crab (C) Joint Venture (JV)
Preliminary Management Plan	Management plan developed by NMFS that is used until a Fishery Management Plan is developed by the NPFMC.

Appendix 2 - General Terms and Abbreviations Used in Text (continued)

USCG . . . . . United States Coast Guard, U.S. Department of Transportation.

U.S./Soviet Convention Line . . . . . Common boundary demarcation line between the United States and Soviet Union in the Bering Sea.

Vessel Day . . . . . Effort by a single vessel conducting fishing operations for 1 day.

Vessel Types . . . . . FAC - Groundfish factoryship.

FAC TRAWL - Catcher vessels fishing for a groundfish factoryship, including Danish seiners, pair trawlers, and medium stern trawlers.

INDEP TRAWL - Independent stern trawler that can land, process, and transport fishery products, including:

Small trawlers, under 290 gross tons.
Medium trawlers, 290-1400 gross tons.
Large trawlers, over 1400 gross tons.

LL - Longliner.

CFAC - Crab factoryship.

CPOT - Crab pot vessel fishing for a crab factoryship.

INPOT - Independent crab pot vessel.

SNPOT - Snail pot vessel.

SALMON FAC - Salmon factoryship.

SALMON GNT - Gillnetter fishing for a salmon factoryship.

SUPPORT - Refrigerated transport vessel, cargo vessel, or tanker.

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980

*** JAPAN ***

LARGE STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
AKEBONO MARU NO. 72	8LZR	TKI-496	X	X			
CHIKUBU MARU	JCTA	TKI-796	X	X			
DAISHIN MARU NO. 12	8LYN	TKI-466	X	X			
DAISHIN MARU NO. 22	JMGO	TKI-500	X	X			
DAISHIN MARU NO. 23	JFRL	TKI-555	X	X			
HARUNA MARU	JKJL	FOI-220	X	X			
KONGO MARU	JJSM	FOI-221	X	X			
KOYO MARU NO. 2	JHSW	TKI-629	X	X			
KOYO MARU NO. 3	JDXF	TKI-829	X	X			
NIITAKA MARU	JDZN	FOI-168	X	X			
OHTORI MARU	JDMJ	TKI-759	X	X			
RIKUZEN MARU	JDSD	TKI-755	X	X			
RYUYO MARU	JQET	TKI-546	X	X			
TAKACHIHO MARU	JPBU	FOI-90	X	X			
TENYO MARU	JCEC	YGI-370	X				
TENYO MARU NO. 2	JETD	YGI-376	X				
TENYO MARU NO. 3	JFJO	YGI-377	X				
TENYO MARU NO. 5	JGVD	YGI-390	X				
TSUDA MARU	JFTB	TKI-852	X	X			
YAMATO MARU	JBGF	FOI-280	X	X			
ZUIYO MARU	JRHA		X	X			
ZUIYO MARU NO. 2	JFWT	TKI-568	X	X			
ZUIYO MARU NO. 3	JKFQ	TKI-685	X	X			

MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
AKEBONO MARU NO. 1	JKYK		X	X			
AKEBONO MARU NO. 11	JHZP	HKI-196	X	X			
AKEBONO MARU NO. 12	JHUF	YGI-297	X				
AKEBONO MARU NO. 15	JNJJ	YGI-298	X				
AKEBONO MARU NO. 16	JNKH	YGI-406	X	X			
AKEBONO MARU NO. 17	JNME	HKI-206	X				
AKEBONO MARU NO. 18	JNMI		X				
AKEBONO MARU NO. 2	JLCK		X	X			
AKEBONO MARU NO. 21	JDUR	YGI-407	X				
AKEBONO MARU NO. 22	JEES	TKI-688	X	X			
AKEBONO MARU NO. 27	JBST	TKI-907	X	X			
AKEBONO MARU NO. 28	JRKC	TKI-916	X	X			
AKEBONO MARU NO. 31	JBVU	TKI-908	X	X			

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS
OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
AKEBONO MARU NO. 32	JRLW	TKI-917	X	X			
ANYO MARU NO. 11	JBUA	TKI-910	X	X			
ANYO MARU NO. 12	JPWK	MGI-723	X				
ANYO MARU NO. 15	7KGG	MGI-627	X				
ANYO MARU NO. 8	JCXA	TKI-809	X				
CHOUN MARU NO. 21	JNSO		X				
CHUYO MARU NO. 21	JREK	HKI-455	X				
CHUYO MARU NO. 22	JREZ	HKI-458	X				
DAIAN MARU NO. 188	JAFV		X				
DAIEI MARU NO. 2	JENE	IKI-121	X				
DAIKICHI MARU NO. 32	JMUX	YMI-12	X				
DAIKICHI MARU NO. 37	7KOJ		X				
DAIKICHI MARU NO. 51	JFUK		X				
DAINICHI MARU NO. 31	7KEY		X				
DAITO MARU NO. 38	7JSY	HKI-506	X				
DAITO MARU NO. 55	JLQN	HKI-589	X				
DAITOKU MARU NO. 31	7KPR	MGI-661	X				
EBISU MARU NO. 38	JRCI	HKI-538	X				
EIKYU MARU NO. 11	JFES	HKI-495	X				
EIKYU MARU NO. 12	JLGU	HKI-547	X				
EIKYU MARU NO. 16	JJIE	HKI-502	X				
EIKYU MARU NO. 2	JJTH	HKI-513	X				
EIKYU MARU NO. 86	JLNU	HKI-476	X				
FUKUI MARU NO. 10	JDYV	FKI-110	X				
FUKUI MARU NO. 8	JDYN	FKI-103	X				
FUKUSHIN MARU NO. 5	JGET		X				
FUKUYOSHI MARU NO. 38	JFCK	MGI-778	X	X			
HAKURYU MARU NO. 51	JNYY	MGI-557	X				
HAMAZEN MARU NO. 35	JRJA	AMI-183	X				
HATSUE MARU NO. 62	7JXS	HKI-562	X				
HOKUO MARU NO. 25	7KBQ	AMI-308	X				
HOKUYU MARU NO. 32	JAKY		X				
KAIUN MARU NO. 38	JBED	FSI-226	X				
KAIYO MARU NO. 12	JPVK		X				
KAIYO MARU NO. 53	JCAY		X				
KAIYO MARU NO. 7	7JYJ	HKI-557	X				
KASHIMA MARU NO. 23	JPWQ		X				
KOEI MARU NO. 15	JKJI		X				
KOEI MARU NO. 25	JQBN		X				
KOEI MARU NO. 35	JFOG	MGI-801	X				
KOHOKU MARU NO. 16	8JEI	HKI-576	X				
KOHOKU MARU NO. 17	8JEE	HKI-592	X				

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
KOSHIN MARU NO. 11	7KPE	MGI-668	X	X			
KOSHIN MARU NO. 21	JLVY	MGI-836	X				
KOTOBUKI MARU NO. 25	JENM	MGI-741	X				
KUMANO MARU NO. 15	7KLX	FSI-15	X				
KYOWA MARU NO. 11	7KMN	FSI-206	X				
KYOWA MARU NO. 15	JFZP	FSI-10	X	X			
KYOYO MARU NO. 2	JHCN	HKI-472	X				
MANRYO MARU NO. 32	JRNB	HKI-519	X				
ORIENT MARU NO. 3	JKGF	FOI-324	X				
RYOAN MARU NO. 25	7KOU		X				
RYOAN MARU NO. 28	JLQE	MGI-860	X				
RYOAN MARU NO. 31	JCCV	AMI-203	X				
RYOEI MARU NO. 38	JQWW	MGI-602	X				
RYUHO MARU NO. 31	JPUZ		X				
RYUHO MARU NO. 37	JFKM	MGI-792	X				
RYUHO MARU NO. 51	7KDE		X				
RYUJIN MARU NO. 8	7KED		X				
SEIJU MARU NO. 28	JNUH	AMI-231	X				
SEITOKU MARU NO. 105	JLJA	HKI-460	X				
SHINEI MARU NO. 21	JBCU		X				
SHINEI MARU NO. 53	JHPG	MGI-520	X				
SHINNICHI MARU NO. 38	JBRT		X				
SHIZUOKA MARU	JNHD	TKI-814	X	X			
SHOEI MARU NO. 2	JCTH		X				
SHOSHIN MARU NO. 18	JCSP	AMI-226	X				
SHOSHIN MARU NO. 21	JCNY	AMI-217	X				
SHOTOKU MARU NO. 35	JKSO		X				
SHOYO MARU	JAOK	HKI-475	X				
SHUNYO MARU NO. 118	JKFJ		X				
TAISEI MARU NO. 11	JLHT	AMI-249	X				
TAISEI MARU NO. 3	7KJZ		X				
TAISEI MARU NO. 68	JLKA	HKI-459	X				
TOMI MARU NO. 51	JNVQ		X				
TOMI MARU NO. 52	8JBD	HKI-572	X				
TOMI MARU NO. 53	8KFN	HKI-585	X				
TOMI MARU NO. 55	JRGB	HKI-501	X				
TOMI MARU NO. 82	JAWQ	HKI-432	X				
TOMI MARU NO. 85	JLQO	HKI-485	X	X			
YAHATA MARU NO. 53	JLGC		X				
YAKUSHI MARU NO. 21	7KEH		X				
YAMASAN MARU NO. 81	7JSK	HKI-486	X				
YASHIMA MARU NO. 2	JJDS	EHI-317	X				

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
YASHIMA MARU NO. 3	JJDG	EHI-316	X				
YASHIO MARU NO. 11	JRDQ	AMI-141	X				
YOSHI MARU NO. 81	7LAM		X				
YURYO MARU NO. 8	JQHT	AMI-147	X				
ZUIHO MARU NO. 28	JBXQ		X				

LONGLINERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
ANYO MARU NO. 21	JAOF	TKI-891	X	X			
ANYO MARU NO. 22	JIXS	TKI-949	X	X			
CHOYO MARU NO. 81	7JST	HKI-503	X	X			
EBISU MARU NO. 88	JPZQ	HKI-308	X	X			
EIKYU MARU NO. 82	JGUV	HKI-311	X	X			
FUKUYOSHI MARU NO. 8	JAPO		X	X			
FUKUYOSHI MARU NO. 85	JGXT	HKI-343	X	X			
HATSUE MARU NO. 38	JGVE	HKI-313	X	X			
HATSUE MARU NO. 68	JAWR		X	X			
KIYO MARU NO. 55	JKRL	HKI-539	X	X			
MATSUEI MARU NO. 88	JKSK	HKI-548	X	X			
MITO MARU NO. 82	JGSN	HKI-298	X	X			
RYUHO MARU NO. 38	8JWZ		X	X			
RYUSHO MARU NO. 15	JIES	TKI-922	X	X			
RYUSHO MARU NO. 18	JIXH	TKI-925	X	X			
SHINKO MARU NO. 3	JGVM	HKI-318	X	X			
SHINTOKU MARU NO. 25	JLLU	HKI-461	X	X			
SUMIYOSHI MARU NO. 53	JLFJ	HKI-564	X	X			
TENYO MARU NO. 25	JQNZ	MGI-502	X	X			
TENYU MARU NO. 37	JMOT	MGI-473	X	X			
TOMI MARU NO. 88	JLKO	HKI-465	X	X			
TSUNE MARU NO. 31	JHNT	HKI-378	X	X			

FACTORYSHIPS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
HOYO MARU	JQQV	TKI-331	X				
KASHIMA MARU	JNTM	TKI-181	X	X	X	X	
MINESHIMA MARU	JPQQ	TKI-716	X				

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

FACTORYSHIPS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
NISSHIN MARU NO. 2	JBKS	TKI-280	X				
SHIKISHIMA MARU	JQRU	TKI-648	X				
SOYO MARU	JMFX	TKI-330	X				

PAIR TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
AKASHI MARU NO. 16	JBWJ	YGI-232	X				
AKASHI MARU NO. 17	JBWJ-1	YGI-233	X				
AKASHI MARU NO. 18	JAAX		X				
AKASHI MARU NO. 19	JRKD		X				
AKASHI MARU NO. 51	JABL	YGI-241	X				
AKASHI MARU NO. 52	JABL-1	YGI-242	X				
AKASHI MARU NO. 58	JKGU	YGI-259	X				
AKASHI MARU NO. 59	JKGU-1	YGI-260	X				
AKASHI MARU NO. 63	JKHW	YGI-266	X				
AKASHI MARU NO. 65	JKHW-1	YGI-267	X				
AKASHI MARU NO. 66	JKIJ	YGI-273	X				
AKASHI MARU NO. 67	JKIJ-1	YGI-275	X				
AKASHI MARU NO. 68	JKJB	YGI-280	X				
AKASHI MARU NO. 69	JKJB-1	YGI-281	X				
AKASHI MARU NO. 71	JKKC	YGI-289	X				
AKASHI MARU NO. 72	JKKC-1	YGI-290	X				
AKASHI MARU NO. 73	JMCR	YGI-299	X				
AKASHI MARU NO. 75	JMCR-1	YGI-300	X				
AKASHI MARU NO. 76	JMCU		X				
AKASHI MARU NO. 77	JMCU-1	YGI-305	X				
AKIHO MARU	JFPF-1	NSI-430	X				
AOBA MARU	JBGC	NSI-492	X				
EIYO MARU	JDYY-1	NSI-310	X				
EIYO MARU	JBTY-1	FOI-285	X				
FUKUYO MARU	JCXP-1	FOI-279	X				
HAKUREI MARU	JCLP-1	NSI-534	X				
HOKKAI MARU	JCLP	NSI-535	X				
HOKUSHIN MARU	JCMP	NSI-537	X				
HOKUTO MARU	JCMP-1	NSI-538	X				
JUNYO MARU	JFOF-1	FOI-257	X				
KAKUYO MARU NO. 1	JFQM		X				
KAKUYO MARU NO. 11	JQMN		X				
KAKUYO MARU NO. 12	JQMN-1		X				

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

PAIR TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
KAKUYO MARU NO. 2	JFQM-1	NSI-432	X				
KAKUYO MARU NO. 3	JFRF		X				
KAKUYO MARU NO. 5	JFRF-1	NSI-438	X				
KAKUYO MARU NO. 7	JKZS		X				
KAKUYO MARU NO. 8	JKZS-1	NSI-544	X				
KATORI MARU	JBFO	NSI-485	X				
KATSUKI MARU	JBFO-1	NSI-486	X				
KATSUYAMA MARU	JPZZ		X				
KOYO MARU	JCXP	FOI-278	X				
KOYO MARU	JPIA	NSI-296	X				
KUREHA MARU	JKLX-1	FOI-294	X				
MATSUYAMA MARU	JPZZ-1		X				
MIZUHO MARU	JFPF	NSI-429	X				
NITTO MARU NO. 31	JKOB		X				
NITTO MARU NO. 32	JKOB-1	YGI-277	X				
NITTO MARU NO. 35	JLZE		X				
NITTO MARU NO. 36	JLZE-1	YGI-279	X				
OTOHA MARU	JKLX	FOI-293	X				
OYO MARU	JDYY	NSI-309	X				
RAKUYO MARU	JFWF-1	FOI-261	X				
RYUYO MARU	JPIA-1	NSI-297	X				
SHUYO MARU	JBTY	FOI-284	X				
SYUNYO MARU	JFWF	FOI-260	X				
TOYOSHIMA MARU	JCXL-1	FOI-297	X				
TSUSHIMA MARU	JFOM-1	NSI-420	X				
WAKABA MARU	JBGC-1	NSI-493	X				
WASHIMA MARU	JCXL	FOI-296	X				
WAYO MARU	JFOF	FOI-256	X				
YASHIMA MARU	JFOM	NSI-362	X				

FLEET MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
FUJI MARU NO. 1	JHDV	IGI-230	X				
HOKEN MARU NO. 8	JLBG		X				
HOKKO MARU NO. 57	JLMT	HKI-566	X				
HOKKO MARU NO. 77	8LVB	HKI-636	X				
KAIKO MARU NO. 3	JNSW	HKI-223	X				
KAIKO MARU NO. 5	JAYQ		X				
KAIUN MARU NO. 65	7LVY		X				

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

FLEET MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
KAKUDAI MARU NO. 25	JAYA	ATI-015	X				
MUTSU MARU NO. 52	JDDA	HKI-184	X				
NITTO MARU NO. 75	JANN	HKI-451	X				
TAISEI MARU NO. 51	JEUH	HKI-183	X				
TORA MARU NO. 18	JPQA	HKI-213	X				
ZENPO MARU NO. 21	JEWC	HKI-179	X				

DANISH SEINERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
AKATSUKI MARU NO. 1	JQLO		X				
EBISU MARU NO. 11	JLKM	HKI-560	X				
EBISU MARU NO. 21	JROU	HKI-383	X				
HEIKYU MARU NO. 25	JAUK	HKI-453	X				
HOKKO MARU NO. 17	8LNT	HKI-612	X				
KAIKO MARU NO. 8	JRHM	AMI-163	X				
KAIUN MARU NO. 52	JARF	HKI-389	X				
KAIUN MARU NO. 78	JLMY	HKI-575	X				
MITSU MARU NO. 50	JRGJ	AMI-158	X				
SEIHO MARU NO. 15	JLJY	HKI-558	X				
SHOKEN MARU NO. 8	JLOO		X				
SHOSEI MARU NO. 30	8LWS		X				
SOHO MARU NO. 32	7KTA		X				
SOHO MARU NO. 68	JADF	AMI-150	X				
TENYU MARU NO. 18	JQQC		X				
TENYU MARU NO. 21	JDFH		X				
YURYO MARU NO. 35	JCPD	AMI-218	X				

CRAB FACTORYSHIPS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
KEIKO MARU	JNAP	HKI-157	X	X	X	X	

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

FLEET CRAB POT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
FUKUYO MARU NO. 18	JNIP				X		
HOKKO MARU NO. 12	JPTP				X		
KAIUN MARU NO. 21	JDMC				X		
KEIYO MARU NO. 38	JDOM	HKZ-11667			X		

INDEPENDENT CRAB POT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
EIKYU MARU	7JDA	YMI-11			X		
EIKYU MARU NO. 26	8KPN	HKI-603			X		
EIWA MARU NO. 28	7JIJ	TYI-51			X	X	
HAKUYO MARU	JIAT				X		
HOKO MARU NO. 36	JHUX				X	X	
KAISEI MARU NO. 8	7JKK				X		
KAIYO MARU NO. 8	JPJK				X		
KOYO MARU NO. 17	JJLY				X		
KOYO MARU NO. 3	8LYD	TKI-462			X		
KYOWA MARU NO. 8	JDCQ				X	X	
MARUNAKA MARU NO. 68	JDMO	HKI-623			X	X	
MATSUEI MARU NO. 72	JGPB	HKI-278			X		
TAISAN MARU NO. 1	JAXN	TKI-825			X	X	
TAKASHIRO MARU NO. 31	JFTL	MEI-653			X	X	

SNAIL POT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
HOYO MARU NO. 63	JMXA	MGI-737				X	

TRANSPORT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
ABUGAWA MARU	JAWI		X	X	X	X	
AKASHIA MARU	8KOF		X	X	X	X	
AWASHIMA MARU	JKZN		X	X			
BERING MARU	JLDL		X	X	X	X	
DAIHO MARU	JEUQ		X	X			

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS
OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

TRANSPORT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
DAIRYO MARU	JCHA		X	X			
EIHEI MARU	7LZX		X	X	X	X	
EIHO MARU	JEAM		X	X	X	X	
EIO MARU	JMDM		X	X	X	X	
FUKUJU MARU NO. 57	JLOI		X	X	X	X	
FUKUYO MARU	JNSV		X	X	X	X	
HAKODATE MARU NO. 2	8LDD		X	X	X	X	
HAKUBASAN MARU	JALH		X	X	X	X	
HAMANASU MARU	JIQW		X	X	X	X	
HIYO MARU	JRBU		X	X	X	X	
HOYO MARU	JDRG		X	X	X	X	
ISOKAZE MARU	JGIF		X	X	X	X	
ITOHAM MARU	JKCP		X	X	X	X	
KAIKO MARU	JGSO		X	X	X	X	
KAKOGAWA MARU	JAVO		X	X	X	X	
KARASAKI MARU	JJOK		X	X	X	X	
KASHIWAHANA MARU NO. 1	7LTZ		X	X			
KENTOKU MARU	JBLN		X	X	X	X	
KIYO MARU	JNTY		X	X	X	X	
KIZAN	JRQW		X	X	X		
MARINE ACE	JIAW		X	X	X	X	
MATSUKAZE MARU	JDTE		X	X	X	X	
MIHO MARU	JHDI		X	X			
MIYAJIMA MARU	JDAB		X	X	X	X	
NAGISA MARU	JJLX		X	X			
NICHIYO MARU	JHIG		X	X	X	X	
NIKKO MARU	JGAL		X	X	X	X	
NIPPONHAM MARU NO. 1	JFRC		X	X	X	X	
NISSHO MARU	JMTI		X	X	X		
NOJIMA MARU	JMKU		X	X	X	X	
RYOYO MARU	JESC		X	X	X	X	
SACHIKAZE MARU	JKSY		X	X	X		
SAKURA MARU	JIAG		X	X			
SANTO MARU	JFDY		X	X			
SEIKO MARU	JACP		X	X	X	X	
SEIRYU MARU	JRIV		X	X	X	X	
SETA MARU	JHWT		X	X	X		
SHUYO MARU	JHTD		X	X	X	X	
SOYOKAZE MARU	JDVT		X	X	X	X	
SUZUKAZE MARU	JBVI		X	X	X		
SUZURAN MARU	JBYT		X	X	X	X	
TAISEI MARU NO. 101	JHSB		X	X	X	X	

APPENDIX 3 - FOREIGN FISHING AND SUPPORT VESSELS
OPERATING OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

TRANSPORT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
TAISEI MARU NO. 16	JNPA		X	X	X	X	
TAISEI MARU NO. 41	JKQK		X	X	X	X	
TAISEI MARU NO. 52	8JIN		X	X	X	X	
TAISEI MARU NO. 87	8JLD		X	X	X	X	
TAMAGAWA MARU	JAUM		X	X	X	X	
TENRYU MARU	8JUM		X	X			
TOKO MARU	JRKA		X	X	X	X	
TOSA MARU	7KYB		X	X	X	X	
WAKASHIO MARU	JKMD		X	X	X	X	
WAKASHIO MARU NO. 32	JKPR		X	X	X	X	
YOHO MARU	JNUV		X	X	X	X	

TANKERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
CHIGUSA MARU	JBBG		X	X	X	X	
RICH SEAGULL	8KZI		X	X	X	X	
TENKAI MARU	7JNM		X	X	X	X	
TENRYO MARU	8KPK		X	X	X		
UKO MARU	JPJP		X	X	X	X	

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APPENDIX 4 - JAPANESE HIGH SEAS SALMON FLEETS
OFF ALASKA - 1980

FACTORYSHIPS	CALL SIGN	HULL NUMBER
JINYO MARU	JKBM	TKI-293
KIZAN MARU	JBRH	TKI-432
MEIYO MARU	JAJO	TKI-381
NOJIMA MARU	JMKU	TKI-320

GILLNETTERS	CALL SIGN	HULL NUMBER	FLEET
BENTEN MARU NO. 18	JPPB	HK2-17175	JINYO MARU
CHIYOKI MARU NO. 25	JQEW	HK2-17181	JINYO MARU
CHOYO MARU NO. 85	7JWH	HK2-13885	JINYO MARU
DAIHIKO MARU NO. 27	8LVI	HK2-17111	JINYO MARU
DAIRIN MARU NO. 10	8KGK	HK2-13940	JINYO MARU
EIKYU MARU NO. 63	8LGA	HK2-17000	JINYO MARU
FUKUJIN MARU NO. 18	8LXM	HK2-17155	JINYO MARU
HABOMAI MARU NO. 8	JJLO	HK2-13813	JINYO MARU
HANASAKI MARU NO. 52	JGUI	HK2-13600	JINYO MARU
HEIAN MARU NO. 61	JLRN	HK2-13959	JINYO MARU
HOKEN MARU NO. 18	JBDH	HK2-17205	JINYO MARU
HOKURYO MARU NO. 8	JKSN	HK2-13900	JINYO MARU
HOKUYU MARU NO. 58	JGJQ	HK2-17124	JINYO MARU
KAIUN MARU NO. 75	JLMW	HK2-13950	JINYO MARU
KEIYO MARU NO. 17	JDKS	HK2-13988	JINYO MARU
KINJO MARU NO. 58	JGRF	HK2-13585	JINYO MARU
KINTOMI MARU NO. 35	JJWK	HK2-13875	JINYO MARU
KOEI MARU NO. 8	8LOV	HK2-13980	JINYO MARU
KOSEI MARU NO. 25	JEJC	HK2-13522	JINYO MARU
KOSHIN MARU NO. 58	8KQF	HK2-17013	JINYO MARU
MANRYO MARU NO. 18	JKTD	HK2-13953	JINYO MARU
MATSUEI MARU NO. 12	8LCL	HK2-13962	JINYO MARU
NICHIREN MARU NO. 7	JRGT	HK2-13847	JINYO MARU
NITTO MARU NO. 8	JAXM	HK2-13819	JINYO MARU
NOBORIBETSU MARU NO. 2	JHBL	HK2-13740	JINYO MARU
RYOUN MARU NO. 12	JLBA	HK2-17023	JINYO MARU
SACHI MARU NO. 25	JASY	HK2-13700	JINYO MARU
SHINSEI MARU NO. 5	7KXW	MG2-3485	JINYO MARU
SHINTOKU MARU NO. 11	JJRO	HK2-13880	JINYO MARU
SHUNYO MARU NO. 68	8LFV	HK2-13999	JINYO MARU
TAISEI MARU NO. 105	JLFP	HK2-13912	JINYO MARU
TENYU MARU NO. 18	JPHJ	MG2-3291	JINYO MARU
TOMI MARU NO. 31	8KPA	HK2-13967	JINYO MARU
TORA MARU NO. 22	JQCL	HK2-13671	JINYO MARU

APPENDIX 4 - JAPANESE HIGH SEAS SALMON FLEETS
OFF ALASKA - 1980 (CONTINUED)

GILLNETTERS	CALL SIGN	HULL NUMBER	FLEET
TOYO MARU NO. 18	8LEH	HK2-13976	JINYO MARU
TOYOSHI MARU NO. 38	JRCK	HK2-13894	JINYO MARU
TOYOSHI MARU NO. 78	7LWJ	HK2-17169	JINYO MARU
WAKASHIO MARU NO. 52	8KJJ	HK2-13952	JINYO MARU
WAKO MARU	JHEV	HK2-13798	JINYO MARU
YAHIKO MARU NO. 5	8LNK	HK2-13969	JINYO MARU
ZEN EI MARU NO. 23	JRAK	HK2-13824	JINYO MARU
ZENRYU MARU NO. 51	JLRY	HK2-13958	JINYO MARU
ZUIHO MARU NO. 15	JMEY	HK2-13983	JINYO MARU
CHIDORI MARU NO. 81	JMZX	MG2-3425	KIZAN MARU
CHOKO MARU NO. 61	JNEG	MG2-3477	KIZAN MARU
DAIICHI MARU NO. 8	JIKN	IG2-2222	KIZAN MARU
DAIKICHI MARU NO. 28	JPPW	MG2-3266	KIZAN MARU
DAIRYU MARU NO. 2	JIGW	MG2-3058	KIZAN MARU
DAITOKU MARU NO. 11	JNQT	MG2-3418	KIZAN MARU
EBISU MARU NO. 78	8KAX	MG2-3595	KIZAN MARU
EIKYU MARU NO. 38	JMFT	MG2-3360	KIZAN MARU
FUKUYOSHI MARU NO. 53	8JUR	MG2-3600	KIZAN MARU
HAKKO MARU NO. 28	7KVZ	MG2-3251	KIZAN MARU
HOKUSHU MARU NO. 35	JNPB	FS2-38	KIZAN MARU
INARI MARU NO. 8	JMKY	IT2-3177	KIZAN MARU
KAIKO MARU NO. 18	JNUM	AM2-4295	KIZAN MARU
KASHIMA MARU NO. 22	JPQF	MG2-3298	KIZAN MARU
KIN EI MARU NO. 3	JMNH	IT2-3256	KIZAN MARU
KINSEI MARU NO. 63	JMNB	IT2-3222	KIZAN MARU
KOEI MARU NO. 51	JHIQ	MG2-3153	KIZAN MARU
KOSHO MARU NO. 8	8KAT	MG2-3051	KIZAN MARU
KOTOBUKI MARU NO. 35	JNZH	MG2-3253	KIZAN MARU
KOUN MARU NO. 35	7KOB	FS2-2338	KIZAN MARU
KOYO MARU NO. 21	JKNT	MG2-3611	KIZAN MARU
KUROMORI MARU NO. 25	JBMM	IT2-2753	KIZAN MARU
MANSEI MARU NO. 21	JEMR	IG2-2019	KIZAN MARU
MYOJIN MARU NO. 23	JMII	MG2-3377	KIZAN MARU
NARITA MARU NO. 1	JHXF	MG2-3018	KIZAN MARU
OBATA MARU NO. 25	JRYJ	IG2-1907	KIZAN MARU
RISO MARU NO. 36	JDKV	CB2-6227	KIZAN MARU
RYOEI MARU NO. 18	JHEY	MG2-3578	KIZAN MARU
RYOFUKU MARU NO. 18	7KLL	FS2-18	KIZAN MARU
RYUHO MARU NO. 15	JRZP	MG2-3481	KIZAN MARU
SACHI MARU NO. 21	JPZJ	MG2-3300	KIZAN MARU
SEIKYO MARU NO. 18	JNZP	IG2-2218	KIZAN MARU
SEIUN MARU NO. 28	JCXI	AM2-6075	KIZAN MARU
SHOICHI MARU NO. 22	7KWD	FS2-2748	KIZAN MARU

APPENDIX 4 - JAPANESE HIGH SEAS SALMON FLEETS
OFF ALASKA - 1980 (CONTINUED)

GILLNETTERS	CALL SIGN	HULL NUMBER	FLEET
SHOSHIN MARU NO. 1	JCXH	AM2-6035	KIZAN MARU
TAIYO MARU NO. 21	JGLS	FS2-2375	KIZAN MARU
TATSU MARU NO. 31	JFZB	IT2-3313	KIZAN MARU
TATSU MARU NO. 8	7KNY	MG2-3467	KIZAN MARU
TENYU MARU NO. 8	JEFU	MG2-3326	KIZAN MARU
YAE MARU NO. 21	JMUJ	MG2-3382	KIZAN MARU
YAYOI MARU NO. 32	JPAE	FS2-2656	KIZAN MARU
YOSHI MARU NO. 28	JNNL	FS2-31	KIZAN MARU
YOSHI MARU NO. 3	JGJX	FS2-3	KIZAN MARU
CHOJU MARU NO. 20	JNQR	MG2-3415	MEIYO MARU
CHOKYU MARU NO. 23	JHYH	FS2-2201	MEIYO MARU
DAIKICHI MARU NO. 27	7KQG	MG2-3240	MEIYO MARU
DAITO MARU NO. 28	7JXX	HK2-13898	MEIYO MARU
FUKUCHO MARU	JQFI	MG2-3322	MEIYO MARU
GON EI MARU NO. 3	JNJM	FS2-17	MEIYO MARU
HAKUCHO MARU NO. 21	JMWY	AM2-3632	MEIYO MARU
HEIKYU MARU NO. 32	8LLD	HK2-13964	MEIYO MARU
INARI MARU NO. 31	JNLM	FS2-51	MEIYO MARU
KAIUN MARU NO. 58	JPCH	FS2-2695	MEIYO MARU
KAIYO MARU NO. 30	JGWM	AM2-3768	MEIYO MARU
KASHIMA MARU NO. 20	JIEK	MG2-3047	MEIYO MARU
KASHIMA MARU NO. 25	JFXF	MG2-3566	MEIYO MARU
KIN EI MARU NO. 118	JRCG	IT2-3005	MEIYO MARU
KIN EI MARU NO. 58	7KLN	FS2-58	MEIYO MARU
KIN EI MARU NO. 88	JQZD	IT2-2928	MEIYO MARU
KOEI MARU NO. 23	JNRH	MG2-3428	MEIYO MARU
KOEI MARU NO. 68	JNDB	MG2-3466	MEIYO MARU
KOTOBUKI MARU NO. 32	JPXH	IT2-2848	MEIYO MARU
KYOEI MARU NO. 18	JRKL	IG2-1941	MEIYO MARU
KYOKKO MARU NO. 27	7KKN	AM2-4280	MEIYO MARU
KYOSHO MARU NO. 31	8JSE	MG2-3581	MEIYO MARU
MATSU MARU NO. 35	JQYR	IT2-2868	MEIYO MARU
MINATO MARU NO. 80	JNPH	AM2-4294	MEIYO MARU
MUTU MARU NO. 82	JBDD	HK2-17206	MEIYO MARU
MYOJIN MARU NO. 18	JQIJ	MG2-3496	MEIYO MARU
OKUNI MARU NO. 2	JK3975	TT2-1382	MEIYO MARU
RYOKAI MARU NO. 35	JFXQ	AM2-6154	MEIYO MARU
RYUHO MARU NO. 5	JQXH	HK2-13816	MEIYO MARU
SAKAE MARU NO. 12	JGWP	MG2-3482	MEIYO MARU
SANKICHI MARU NO. 38	JHZT	FS2-2210	MEIYO MARU
SEIEI MARU NO. 31	JNZE	FS2-2648	MEIYO MARU
SEIHO MARU NO. 12	JATF	HK2-13741	MEIYO MARU
SHOFUKU MARU NO. 88	JNFW	MG2-3488	MEIYO MARU

APPENDIX 4 - JAPANESE HIGH SEAS SALMON FLEETS
OFF ALASKA - 1980 (CONTINUED)

GILLNETTERS	CALL SIGN	HULL NUMBER	FLEET
SHOSEI MARU NO. 20	JLJT	HK2-13944	MEIYO MARU
TAISEI MARU NO. 3	7JUS	HK2-13887	MEIYO MARU
TOMI MARU NO. 15	8KKT	HK2-13965	MEIYO MARU
TOMI MARU NO. 5	8KKO	HK2-13961	MEIYO MARU
TOMI MARU NO. 65	JGST	AM2-4801	MEIYO MARU
YAMASAN MARU NO. 7	JAFN	HK2-17103	MEIYO MARU
YAMASEN MARU NO. 51	JDJQ	IG2-2043	MEIYO MARU
YURYO MARU NO. 50	JMFL	MG2-3001	MEIYO MARU
ZENPO MARU NO. 68	JLPH	HK2-13966	MEIYO MARU
AKITA MARU NO. 51	JPJM	AT2-878	NOJIMA MARU
CHOKYU MARU NO. 53	7KOG	FS2-2333	NOJIMA MARU
CHOYO MARU NO. 75	JGMY	HK2-17016	NOJIMA MARU
EIFUKU MARU NO. 51	JQIY	FS2-2331	NOJIMA MARU
EIYO MARU NO. 63	JNLH	FS2-63	NOJIMA MARU
FUKUYOSHI MARU NO. 28	7KOF	FS2-2334	NOJIMA MARU
HOKKO MARU NO. 7	JLLW	HK2-13918	NOJIMA MARU
HOKUYO MARU NO. 35	JGOR	FS2-28	NOJIMA MARU
HOYOSHI MARU NO. 58	JMYA	TY2-953	NOJIMA MARU
KAIUN MARU NO. 58	JLJS	HK2-13901	NOJIMA MARU
KAIUN MARU NO. 88	8LSP	HK2-17078	NOJIMA MARU
KAIYO MARU NO. 28	JNNG	FS2-567	NOJIMA MARU
KAN EI MARU NO. 18	JRNA	IG2-1950	NOJIMA MARU
KASUGA MARU NO. 35	JNZI	FS2-2650	NOJIMA MARU
KATSURA MARU NO. 31	JLNB	HK2-13916	NOJIMA MARU
KINSEI MARU NO. 53	JGXN	IT2-3418	NOJIMA MARU
KINTOKU MARU NO. 7	JKNE	JG2-3617	NOJIMA MARU
KIYO MARU NO. 3	JIZS	NG2-1423	NOJIMA MARU
KOEI MARU NO. 11	7KPS	MG2-3231	NOJIMA MARU
KOFUKU MARU NO. 21	JQWX	YM2-860	NOJIMA MARU
KORYO MARU NO. 128	JQML	HK2-17093	NOJIMA MARU
KORYO MARU NO. 8	JDDQ	TY2-1254	NOJIMA MARU
KOYO MARU NO. 38	JQMZ	FS2-2346	NOJIMA MARU
KUMANO MARU NO. 36	JFFA	CB2-6138	NOJIMA MARU
KUMANO MARU NO. 58	JDOU	CB2-6295	NOJIMA MARU
KUMANO MARU NO. 78	JDMB	CB2-6239	NOJIMA MARU
NITTO MARU NO. 25	JMWR	HK2-17074	NOJIMA MARU
OTO MARU NO. 38	8LHS	HK2-17003	NOJIMA MARU
RYOYOSHI MARU NO. 8	JRLQ	MG2-3186	NOJIMA MARU
RYUJIN MARU NO. 38	JNKU	MG2-3546	NOJIMA MARU
SAKAE MARU NO. 28	JPAO	FS2-2668	NOJIMA MARU
SEISHO MARU NO. 28	JDIR	CB2-6188	NOJIMA MARU
SEISHO MARU NO. 58	JNYW	FS2-158	NOJIMA MARU
SHOTOKU MARU NO. 5	JRIR	HK2-13874	NOJIMA MARU

APPENDIX 4 - JAPANESE HIGH SEAS SALMON FLEETS
OFF ALASKA - 1980 (CONTINUED)

GILLNETTERS	CALL SIGN	HULL NUMBER	FLEET
SUMIEI MARU NO. 21	JQXP	KA2-1178	NOJIMA MARU
SUWA MARU NO. 21	JGHK	FS2-123	NOJIMA MARU
TAKOSHIMA MARU NO. 78	JENX	IK2-3588	NOJIMA MARU
TATSU MARU NO. 28	JFVS	IT2-3213	NOJIMA MARU
TATSUMI MARU NO. 22	JHYD	FS2-2200	NOJIMA MARU
TOYAMA MARU NO. 38	JDCV	TY2-1178	NOJIMA MARU
YAHATA MARU NO. 88	8JEN	HK2-13915	NOJIMA MARU
YOSHI MARU NO. 58	JNZQ	FS2-2651	NOJIMA MARU
ZENSEI MARU NO. 21	JEMN	IG2-2021	NOJIMA MARU

APPENDIX 5 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980

*** SOVIET UNION ***

LARGE STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
15 SYEZD PROFSOYUZOV	UGOR		X	X			
18 SYEZD VLKSM	EMZP		X	X			X
ALEXEI MAKHALIN	UYEO	TB-0956	X	X			
FYODOR KRAINOV	UYDH	PB-0949	X	X			
IUZHNOMORSK	ESJP		X	X			
IVAN CHERNOPYATKO	UYDA	PB-0945	X	X			
IVAN SEREDA	ULSS		X	X			
KAMYSHIN	ESKT	TB-0285	X	X			X
KATANGLI	ESBV	SB-0991	X	X			
KAZATIN	ESKZ	TB-0291	X	X			
KHRUSTALNYY	UUXH		X	X			
KOLYVAN	ESKW	TB-0288	X	X			
KREMEN	UIXM		X	X			
KULUNDA	ESLB	TB-0293	X	X			
LESOGORSK	UMBS	SB-0983	X	X			
MYS GAMOVA	UIDW	PB-0340	X	X			
MYS GROZNY	EUDS	SB-0802	X	X			
MYS PROKOFYEVA	EVBW		X	X			X
MYS SENYAVINA	UONW	SB-0334	X	X			
MYS SKALISTYI	EUEZ	SB-0807	X	X			
MYS SVOBODNY	UJPG		X	X			
NADEZHDINSK	ESBZ	PB-0995	X	X			X
NAKHODKA	UWML		X	X			
NOVAYA ERA	UEKT		X	X			X
OZERNYE KLYUCHI	ESCE		X	X			
PASSIONARIYA	UTVL		X	X			
PAUDZA	EVRP		X	X			
PISATEL	EWWH		X	X			X
PLANERIST	EWVZ		X	X			
SHTURMAN ELAGIN	UERI	TB-0969	X	X			
SOVETSKIYE PROFSOYUSY	ESGX		X	X			
SOYUZ-5	ESKS		X	X			X
TURKUL	EWYZ	SB-0913	X	X			
UGOLNY	EWAB	PV-0205	X	X			X
YUNOST	UVIZ		X	X			
ZELENOGRAD	EVAA		X	X			

APPENDIX 5 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980 (CONTINUED)

*** SOVIET UNION ***

MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
SANGAR	UZMU		X	X			X
SOKOLOVKA	UIKL		X	X			X
SREDNEURALSKY	ENMM		X	X			X

FACTORYSHIPS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
SULAK	UPTO		X	X			X

TRANSPORT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
GRANITNY	ULPL	PT-3047	X	X			X
KHUDOZHNIK S. GERASIMOV	UFKS		X	X			
OSTROV KARAGINSKIY	ESVM	PT-3116	X	X			
OSTROV LISJANSKOGO	ESVK	PT-3114	X	X			
OSTROV SHOKALSKOGO	ESKL	PT-3109	X	X			
OSTROV USHAKOVA	ESKN	PT-3111	X	X			
SAKHALINSKIE GORY	UFOX	PT-3086	X	X			
VASILIY PEROV	UYZY	PT-3011	X	X			
VASILIY VERESHCHAGIN	UHAZ	PT-3003	X	X			

TANKERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
KOMSOMOLETS UKRAINY	UJYL		X	X			
OMSK	ESOP	PN-3175	X	X			
SIBIRNEFT	USMJ	PN-3222	X	X			

APPENDIX 6 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980

*** KOREA ***

LARGE STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
CHEOG YANG HO	6LZV	SS-1156	X	X			
CRYSTAL DAHLIA	6NEW		X				
DAE SUNG HO	6NER	N-1313	X	X			
DAEJIN NO. 52	6NAZ	N-1308	X	X			
DONGSAN-HO	6NQW		X	X			
GAE YANG HO	6LZT	SN-753	X	X			
HAN JIN HO	6MKC		X				
HAN KIL HO	6MLX		X	X			
HANIL HO	6MEB		X	X			
HEUNG YANG HO	6MXD	SN-839	X	X			
KYUNG YANG HO	6NBI		X	X			X
NAMBUG	6MXT		X	X			
NO. 1 HAN SUNG	6LRQ		X	X			
NO. 303 DAI HO	HMMI		X	X			
NO. 305 JINAM	6MLK		X	X			
NO. 70 OYANG HO	6MLQ		X	X			
PUNG YANG HO	6MLB	SN-839	X	X			
SALVIA	6MMD		X	X			
SEO YANG HO	6MME	SN-820	X	X			
SHIN AN HO	6NAX		X	X			
SOO GONG NO. 51	6NEJ		X	X			X
YUYANG HO	HMQE		X	X			

LONGLINERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
KWANG MYONG NO. 20	6NVY		X	X			
O DAE YANG NO. 201	6MKU		X	X			

FACTORYSHIPS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
BOOK NEUNG	6MOD		X	X			X

APPENDIX 6 - FOREIGN FISHING AND SUPPORT VESSELS
OPERATING OFF ALASKA - 1980 (CONTINUED)

*** KOREA ***

TRANSPORT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
DAE RIM	HMJP		X	X			
GAE CHEOG HO NO. 2	HMVF		X	X			
ILL WOO NO. 58	6NPK		X	X			
MIN WOO NO. 1	D8UM		X	X			
NO 105 O DAE YANG	6MBM		X	X			
NO. 3 CHIL BO SAN HO	6LZU	BF-10017	X	X			
NO. 5 CHIL BO SAN HO	6LZS		X	X			
NO. 6 CHIL BO SAN HO	6NEQ	BF-38108	X	X			
TAE YANG NO. 12	6LBB		X	X			

APPENDIX 7 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980

*** POLAND ***

LARGE STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
AMAREL	SQIN		X	X			
ANTARES	SQIJ		X	X			
ARCTURUS	SQHX		X	X			
DELFIN	SQFG		X	X			
DENEBOLA	SQDT		X	X			
GARNELA	SQBB	SWI-208	X	X			
GEMINI	SQEL		X	X			
HAJDUK	SQHY		X	X			
HUMBAK	SQBA		X	X			
KALMAR	SQAJ		X	X			
KOLIAS	SQGM		X	X			
LEPUS	SQAD	GDY-325	X	X			
LYRA	SPYZ		X	X			
MARLIN	SQGY	SWI-219	X	X			
ORCYN	SQGE		X	X			
OTOL	SQGX	SWI-216	X	X			
PERSEUS	SQDW	GDY-332	X	X			
REKIN	SQFA		X	X			
SAGITTA	SQHB		X	X			
SATURN	SQAX		X	X			
SIRIUS	SQEK		X	X			
TAZAR	SQGC		X	X			
VEGA	SQDU		X	X			
WALEN	SQDI	SWI-209	X	X			

TRANSPORT VESSELS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B	G	C	S	JV
BURAN	SQDK		X	X			
HALNIAK	SQBI	110870	X	X			
KAPITAN LEDOCHOWSKI	SQES		X	X			
KASZUBY 2	SQGG		X	X			
WINETA	SQGF		X	X			

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APPENDIX 8 - FOREIGN FISHING AND SUPPORT VESSELS
OPERATING OFF ALASKA - 1980

*** TAIWAN ***

LARGE STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B G C S JV
GOLDEN DRAGON NO. 1	BVHY		X

MEDIUM STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B G C S JV
HIGHLY NO. 301	BVMV		X
HIGHLY NO. 302	BYGM		X
SEA LIGHT	BYIX		X

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APPENDIX 9 - FOREIGN FISHING AND SUPPORT VESSELS OPERATING OFF ALASKA - 1980

*** WEST GERMANY ***

LARGE STERN TRAWLERS	CALL SIGN	HULL NUMBER	PERMITTED FOR: B G C S JV
FRIEDRICH BUSSE	DENR		X

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APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980

*** JAPAN ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
AKATSUKI MARU NO. 1	JQLO	DS/L	6/16/80	5710N 16815W
AKEBONO MARU NO. 12	JHUF	STRL/M	2/20/80	5635N 16750W
AKEBONO MARU NO. 15	JNJJ	STRL/M	11/21/80	5359N 16627W
AKEBONO MARU NO. 18	JNMI	STRL/M	12/02/80	5631N 17245W
AKEBONO MARU NO. 2	JLCK	STRL/M	7/09/80	5816N 14847W
AKEBONO MARU NO. 21	JDUR	STRL/M	6/02/80	5202N 17654E
AKEBONO MARU NO. 27	JBST	STRL/M	2/22/80	5631N 17040W
AKEBONO MARU NO. 28	JRKC	STRL/M	6/08/80	5213N 17155W
AKEBONO MARU NO. 31	JBVU	STRL/M	2/24/80	5806N 17553W
AKEBONO MARU NO. 72	8LZR	STRL/L	2/24/80	5806N 17553W
AKEBONO MARU NO. 72	8LZR	STRL/L	4/19/80	5842N 17735W
AKEBONO MARU NO. 72	8LZR	STRL/L	7/16/80	5549N 16814W
AKEBONO MARU NO. 72	8LZR	STRL/L	7/17/80	5538N 16808W
ANYO MARU NO. 21	JAOF	LL	1/27/80	5242N 16930W
ANYO MARU NO. 21	JAOF	LL	4/16/80	5610N 15323W
ANYO MARU NO. 21	JAOF	LL	10/24/80	5550N 15617W
ANYO MARU NO. 22	JIXS	LL	1/27/80	5236N 16910W
ANYO MARU NO. 22	JIXS	LL	5/30/80	5421N 16719W
ANYO MARU NO. 22	JIXS	LL	11/22/80	5403N 16215W
ANYO MARU NO. 8	JCXA	STRL/M	7/02/80	5418N 16734W
AOBA MARU	JBGC	PTRL	8/01/80	5959N 17440W
BERING MARU	JLDL	TRANS	11/16/80	5929N 17800W
CHIKUBU MARU	JCTA	STRL/L	7/09/80	5437N 16532W
CHOYO MARU NO. 81	7JST	LL	3/17/80	5609N 15344W
CHOYO MARU NO. 81	7JST	LL	4/27/80	5231N 17422W
CHOYO MARU NO. 81	7JST	LL	7/11/80	5459N 15749W
CHOYO MARU NO. 81	7JST	LL	8/05/80	5434N 15840W
CHUYO MARU NO. 21	JREK	STRL/M	8/12/80	5949N 17926W
CHUYO MARU NO. 22	JREZ	STRL/M	8/12/80	5949N 17926W
CHUYO MARU NO. 22	JREZ	STRL/M	8/17/80	5743N 17655W
DAIKICHI MARU NO. 51	JFUK	STRL/M	5/01/80	5608N 17032W
DAISHIN MARU NO. 22	JMGO	STRL/L	6/12/80	5644N 15245W
DAISHIN MARU NO. 22	JMGO	STRL/L	6/19/80	5612N 16337W
DAISHIN MARU NO. 22	JMGO	STRL/L	8/06/80	5615N 15139W
DAISHIN MARU NO. 22	JMGO	STRL/L	10/06/80	5501N 15810W
DAISHIN MARU NO. 23	JFRL	STRL/L	2/24/80	5758N 17552W
DAITO MARU NO. 38	7JSY	STRL/M	1/27/80	5257N 17030W
DAITOKU MARU NO. 31	7KPR	STRL/M	8/05/80	5107N 17907W
EBISU MARU NO. 21	JROU	DS/L	8/01/80	5959N 17440W
EBISU MARU NO. 88	JPZQ	LL	11/15/80	5555N 15338W
EIKYU MARU NO. 11	JFES	STRL/M	4/01/80	5612N 16800W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
EIKYU MARU NO. 11	JFES	STRL/M	8/10/80	5427N 16713W
EIKYU MARU NO. 12	JLGU	STRL/M	2/05/80	5620N 16843W
EIKYU MARU NO. 2	JJTH	STRL/M	2/26/80	5612N 16713W
EIKYU MARU NO. 2	JJTH	STRL/M	8/10/80	5427N 16713W
EIKYU MARU NO. 86	JLNU	STRL/M	2/21/80	5622N 16848W
EIKYU MARU NO. 86	JLNU	STRL/M	9/08/80	5437N 16641W
FUJI MARU NO. 1	JHDV	STRL/M	7/03/80	5558N 16750W
FUKUJU MARU NO. 57	JLOI	TRANS	8/03/80	5455N 16615W
FUKUYOSHI MARU NO. 8	JAPO	LL	3/10/80	5434N 16630W
FUKUYOSHI MARU NO. 8	JAPO	RSCH	8/02/80	5900N 14758W
FUKUYOSHI MARU NO. 8	JAPO	LL	11/29/80	5505N 15641W
FUKUYOSHI MARU NO. 85	JGXT	LL	1/31/80	5215N 17130W
FUKUYOSHI MARU NO. 85	JGXT	LL	2/05/80	5416N 16059W
FUKUYOSHI MARU NO. 85	JGXT	LL	7/14/80	5558N 16955W
FUKUYOSHI MARU NO. 85	JGXT	LL	11/16/80	5422N 16045W
HAKUYO MARU	JIAT	INPOT	4/21/80	5842N 17620W
HAKUYO MARU	JIAT	INPOT	8/16/80	6026N 17835W
HARUNA MARU	JKJL	STRL/L	7/06/80	5609N 16811W
HARUNA MARU	JKJL	STRL/L	8/03/80	5455N 16615W
HATSUE MARU NO. 38	JGVE	LL	7/09/80	5502N 15712W
HATSUE MARU NO. 38	JGVE	LL	11/15/80	5520N 16750W
HATSUE MARU NO. 68	JAWR	LL	1/24/80	5526N 16718W
HATSUE MARU NO. 68	JAWR	LL	3/09/80	5444N 15814W
HATSUE MARU NO. 68	JAWR	LL	5/25/80	5522N 15541W
HATSUE MARU NO. 68	JAWR	LL	7/01/80	5930N 14440W
HATSUE MARU NO. 68	JAWR	LL	11/14/80	5638N 15151W
HOKEN MARU NO. 8	JLBG	STRL/M	7/03/80	5550N 16720W
HOKKO MARU NO. 77	8LVB	STRL/M	7/31/80	5842N 17715W
HOKO MARU NO. 36	JHUX	INPOT	4/20/80	5840N 17651W
ITOHAM MARU	JKCP	TRANS	7/07/80	5545N 16833W
KAIKO MARU NO. 3	JNSW	STRL/M	7/03/80	5558N 16749W
KAIKO MARU NO. 5	JAYQ	STRL/M	7/03/80	5553N 16752W
KAISEI MARU NO. 8	7JKK	INPOT	5/26/80	5822N 17402W
KAIUN MARU NO. 65	7LVY	STRL/M	2/03/80	5250N 17028W
KAIYO MARU NO. 12	JPVK	STRL/M	5/30/80	5649N 16741W
KAIYO MARU NO. 7	7JYJ	STRL/M	9/07/80	5623N 17141W
KAIYO MARU NO. 8	JPJK	INPOT	4/20/80	5839N 17650W
KAIYO MARU NO. 8	JPJK	INPOT	7/29/80	6103N 17820W
KAKUDAI MARU NO. 25	JAYA	STRL/M	7/03/80	5559N 16750W
KASHIMA MARU NO. 23	JPWQ	STRL/M	11/21/80	5359N 16627W
KASHIWAHANA MARU NO. 1	7LTZ	TRANS	7/31/80	5952N 17417W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
KATORI MARU	JBFO	PTRL	8/01/80	5959N 17440W
KATSUYAMA MARU	JPZZ	PTRL	8/01/80	5959N 17440W
KEIKO MARU	JNAP	FAC	4/18/80	5835N 17537W
KIYO MARU	JNTY	TRANS	7/11/80	5555N 16839W
KONGO MARU	JJSM	STRL/L	7/02/80	5647N 15115W
KONGO MARU	JJSM	STRL/L	7/25/80	5450N 15820W
KOYO MARU	JCXP	PTRL	8/01/80	5959N 17440W
KOYO MARU NO. 17	JJLY	INPOT	4/20/80	5839N 17652W
KOYO MARU NO. 2	JHSW	STRL/L	7/19/80	5819N 14831W
KOYO MARU NO. 3	8LYD	INPOT	5/03/80	5814N 17402W
KOYO MARU NO. 3	8LYD	INPOT	7/30/80	5937N 17747W
KOYO MARU NO. 3	JDXF	STRL/L	7/05/80	5624N 16808W
KOYO MARU NO. 3	JDXF	STRL/L	11/04/80	5536N 16823W
KOYO MARU NO.17	JJLY	INPOT	6/17/80	5816N 17359W
KUMANO MARU NO. 15	7KLX	STRL/M	3/15/80	5827N 17508W
KYOYO MARU NO. 2	JHCN	STRL/M	2/24/80	5807N 17556W
MATSUEI MARU NO. 88	JKSK	LL	3/22/80	5601N 15424W
MATSUEI MARU NO. 88	JKSK	LL	6/13/80	5608N 16900W
MATSUEI MARU NO. 88	JKSK	LL	10/18/80	5932N 14316W
MATSUKAZE MARU	JDTE	TRANS	9/04/80	6037N 17529W
MINESHIMA MARU	JPQQ	FAC	7/31/80	5959N 17440W
MITO MARU NO. 82	JGSN	LL	1/28/80	5623N 15248W
MITO MARU NO. 82	JGSN	LL	2/21/80	5443N 16538W
MITO MARU NO. 82	JGSN	LL	7/09/80	5558N 15336W
MITSU MARU NO. 50	JRGJ	DS/L	6/14/80	5659N 16843W
MUTSU MARU NO. 52	JDDA	STRL/M	7/03/80	5554N 16748W
MUTSU MARU NO. 52	JDDA	STRL/M	11/03/80	5544N 16800W
NOJIMA MARU	JMKU	FAC	7/11/80	5606N 17959W
OHTORI MARU	JDMJ	STRL/L	7/07/80	5541N 16825W
OHTORI MARU	JDMJ	STRL/L	8/08/80	5538N 16722W
OYO MARU	JDYY	PTRL	8/01/80	5959N 17440W
RIKUZEN MARU	JDSD	STRL/L	7/16/80	5540N 16800W
RIKUZEN MARU	JDSD	STRL/L	11/04/80	5535N 16807W
RYUHO MARU NO. 38	8JWZ	LL	6/21/80	5327N 16505W
RYUHO MARU NO. 38	8JWZ	LL	8/07/80	5317N 16909W
RYUHO MARU NO. 38	8JWZ	LL	10/24/80	5550N 15617W
RYUSHO MARU NO. 15	JIES	LL	2/06/80	5419N 16049W
RYUSHO MARU NO. 15	JIES	LL	6/24/80	5606N 15618W
RYUSHO MARU NO. 18	JIXH	LL	7/02/80	5811N 14840W
RYUYO MARU	JQET	STRL/L	2/04/80	5258N 17026W
RYUYO MARU	JQET	STRL/L	6/30/80	5912N 14146W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
SACHIKAZE MARU	JKSY	TRANS	8/01/80	5934N 17425W
SEIRYU MARU	JRIV	TRANS	7/29/80	6040N 17830W
SHIKISHIMA MARU	JQRU	FAC	8/01/80	5934N 17425W
SHINKO MARU NO. 3	JGVM	LL	1/28/80	5508N 15647W
SHINKO MARU NO. 3	JGVM	LL	4/15/80	5454N 15746W
SHINKO MARU NO. 3	JGVM	LL	8/06/80	5451N 15832W
SHINKO MARU NO. 3	JGVM	LL	12/02/80	5314N 16919W
SHINNICHI MARU NO. 38	JBRT	STRL/M	9/06/80	5146N 17708E
SHIZUOKA MARU	JNHD	STRL/M	7/09/80	5816N 14848W
SHOTOKU MARU NO. 35	JKSO	STRL/M	2/04/80	5258N 17028W
SHOYO MARU	JAOK	STRL/M	9/01/80	5214N 17308W
SHOYO MARU	JAOK	STRL/M	9/10/80	5240N 17225W
SHUYO MARU	JBTY	PTRL	8/01/80	5959N 17440W
SOHO MARU NO. 68	JADF	DS/L	8/16/80	5852N 17238W
SOYO MARU	JMFX	FAC	7/07/80	5545N 16832W
SUMIYOSHI MARU NO. 53	JLFJ	LL	1/26/80	5256N 16933W
SUMIYOSHI MARU NO. 53	JLFJ	LL	3/05/80	5602N 15418W
SUMIYOSHI MARU NO. 53	JLFJ	LL	5/01/80	5602N 15434W
SUMIYOSHI MARU NO. 53	JLFJ	LL	6/18/80	5630N 15534W
TAISEI MARU NO. 101	JHSB	TRANS	2/02/80	5358N 16630W
TAISEI MARU NO. 51	JEUH	STRL/M	7/03/80	5553N 16749W
TAKACHIHO MARU	JPBU	STRL/L	6/30/80	5912N 14146W
TAKASHIRO MARU NO. 31	JFTL	INPOT	8/16/80	6017N 17850W
TENYO MARU	JCEC	STRL/L	7/13/80	5609N 16733W
TENYO MARU	JCEC	STRL/L	7/15/80	5534N 16751W
TENYO MARU NO. 2	JETD	STRL/L	7/12/80	5602N 16751W
TENYO MARU NO. 25	JQNZ	LL	5/26/80	5715N 17355W
TENYO MARU NO. 25	JQNZ	LL	7/29/80	5652N 15602W
TENYO MARU NO. 3	JFJO	STRL/L	7/11/80	5555N 16839W
TENYO MARU NO. 3	JFJO	STRL/L	11/14/80	5935N 17725W
TENYO MARU NO. 5	JGVD	STRL/L	2/23/80	5807N 17555W
TENYO MARU NO. 5	JGVD	STRL/L	7/12/80	5604N 16746W
TENYO MARU NO. 5	JGVD	STRL/L	8/11/80	5610N 16758W
TENYU MARU NO. 37	JMOT	LL	6/07/80	5656N 15510W
TOMI MARU NO. 53	8KFN	STRL/M	8/12/80	5450N 16705W
TOMI MARU NO. 88	JLKO	LL	1/29/80	5442N 15822W
TOMI MARU NO. 88	JLKO	LL	4/29/80	5410N 16303W
TORA MARU NO. 18	JPQA	STRL/M	7/03/80	5554N 16749W
TSUDA MARU	JFTB	STRL/L	7/27/80	5522N 16708W
TSUNE MARU NO. 31	JHNT	LL	1/28/80	5505N 15707W
TSUNE MARU NO. 31	JHNT	LL	10/18/80	5223N 14323W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** JAPAN ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
WASHIMA MARU	JCXL	PTRL	8/01/80	5959N 17440W
YAMATO MARU	JBGF	STRL/L	7/06/80	5615N 16810W
YAMATO MARU	JBGF	STRL/L	8/10/80	5534N 16738W
YURYO MARU NO. 8	JQHT	STRL/M	5/23/80	5406N 17959E
ZENPO MARU NO. 21	JEWC	STRL/M	7/03/80	5556N 16730W
ZUIYO MARU	JRHA	STRL/L	7/06/80	5611N 16811W
ZUIYO MARU	JRHA	STRL/L	8/10/80	5531N 16725W
ZUIYO MARU NO. 2	JFWT	STRL/L	7/05/80	5617N 16751W
ZUIYO MARU NO. 3	JKFQ	STRL/L	7/05/80	5625N 16816W
ZUIYO MARU NO. 3	JKFQ	STRL/L	8/11/80	5504N 16704W

*** SOVIET UNION ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
15 SYEZD PROFSOYUZOV	UGOR	STRL/L	4/25/80	5514N 15839W
15 SYEZD PROFSOYUZOV	UGOR	STRL/L	4/30/80	5502N 15807W
15 SYEZD PROFSOYUZOV	UGOR	STRL/L	6/23/80	5424N 16113W
18 SYEZD VLKSM	EMZP	STRL/L	2/21/80	5439N 16527W
ALEXEI MAKHALIN	UYEO	STRL/L	8/27/80	5641N 15212W
KHRUSTALNYY	UUXH	STRL/L	6/20/80	5630N 15243W
KREMEN	UIXM	STRL/L	2/16/80	5421N 15953W
KREMEN	UIXM	STRL/L	3/10/80	5415N 16032W
KULUNDA	ESLB	STRL/L	4/14/80	5518N 15831W
KULUNDA	ESLB	STRL/L	6/06/80	5431N 16027W
MYS GAMOVA	UIDW	STRL/L	6/11/80	5427N 16129W
MYS GAMOVA	UIDW	STRL/L	8/07/80	5618N 15317W
MYS GAMOVA	UIDW	STRL/L	8/11/80	6005N 17840W
MYS PROKOFYEVA	EVBW	STRL/L	6/08/80	5422N 16125W
MYS SENYAVINA	UONW	STRL/L	4/29/80	5530N 158568
MYS SENYAVINA	UONW	STRL/L	6/11/80	5425N 16128W
MYS SENYAVINA	UONW	STRL/L	8/08/80	5744N 15202W
MYS SKALISTYI	EUEZ	STRL/L	4/29/80	5530N 158568
NADEZHDINSK	ESBZ	STRL/L	2/21/80	5439N 16527W
NAKHODKA	UWML	STRL/L	6/11/80	5407N 16205W
NAKHODKA	UWML	STRL/L	7/25/80	5415N 16122W
OSTROV SHOKALSKOGO	ESKL	TRANS	6/11/80	5419N 16126W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** SOVIET UNION ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
OZERNYE KLYUCHI	ESCE	STRL/L	6/09/80	5419N 16118W
OZERNYE KLYUCHI	ESCE	STRL/L	7/25/80	5422N 16122W
PASSIONARIYA	UTVL	STRL/L	6/11/80	5420N 16119W
PASSIONARIYA	UTVL	STRL/L	8/07/80	5632N 15234W
PAUDZA	EVRP	STRL/L	4/14/80	5517N 15824W
PAUDZA	EVRP	STRL/L	6/24/80	5644N 15223W
PAUDZA	EVRP	STRL/L	9/04/80	5427N 16032W
PISATEL	EWWH	STRL/L	2/21/80	5439N 16527W
PISATEL	EWWH	STRL/L	4/29/80	5530N 158568
PISATEL	EWWH	STRL/L	7/25/80	5415N 16122W
SAKHALINSKIE GORY	UFOX	TRANS	4/29/80	5530N 15856W
SHTURMAN ELAGIN	UERI	STRL/L	3/10/80	5435N 15853W
SOVETSKIYE PROFSOYUSY	ESGX	STRL/L	9/04/80	5418N 16049W
SULAK	UPTO	FAC	1/22/80	5444N 16527W
TURKUL	EWYZ	STRL/L	4/28/80	5521N 15826W
TURKUL	EWYZ	STRL/L	6/11/80	5410N 16118W
UGOLNY	EWAB	STRL/L	2/21/80	5439N 16527W
UGOLNY	EWAB	STRL/L	4/30/80	5457N 15817W
UGOLNY	EWAB	STRL/L	8/07/80	5632N 15234W
ZELENOGRAD	EVAA	STRL/L	3/10/80	5415N 16046W

*** KOREA ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
BUK NEUNG	6MOD	FAC	4/13/80	5753N 15402W
CHEOG YANG HO	6LZV	STRL/L	1/27/80	5637N 16926W
CHEOG YANG HO	6LZV	STRL/L	7/09/80	5433N 16533W
CRYSTAL DAHLIA	6NEW	STRL/L	4/21/80	5716N 17345W
CRYSTAL DAHLIA	6NEW	STRL/L	7/19/80	5435N 16536W
DAE SUNG HO	6NER	STRL/L	5/30/80	5654N 16833W
DAE SUNG HO	6NER	STRL/L	7/08/80	5431N 16534W
DAE SUNG HO	6NER	STRL/L	11/14/80	5624N 16955W
DAEJIN NO. 52	6NAZ	STRL/L	2/23/80	5807N 17555W
DONGSAN-HO	6NQW	STRL/L	11/02/80	5610N 17056W
GAE CHEOG HO NO. 2	HMVF	TRANS	1/27/80	5637N 16926W
GAE YANG HO	6LZT	STRL/L	2/05/80	5700N 16931W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** KOREA ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
GAE YANG HO	6LZT	STRL/L	6/14/80	5648N 16959W
GAE YANG HO	6LZT	STRL/L	8/08/80	5331N 16730W
HAN JIN HO	6MKC	STRL/L	7/19/80	5439N 16536W
HAN JIN HO	6MKC	STRL/L	11/14/80	5610N 16930W
HAN KIL HO	6MLX	STRL/L	5/29/80	5730N 16828W
HAN KIL HO	6MLX	STRL/L	8/02/80	5604N 16929W
HANIL HO	6MEB	STRL/L	9/06/80	5444N 16536W
HEUNG YANG HO	6MXD	STRL/L	1/27/80	5637N 16926W
HEUNG YANG HO	6MXD	STRL/L	6/17/80	5722N 16902W
KWANG MYONG NO. 20	6NVY	LL	7/20/80	5508N 16759W
KWANG MYONG NO. 20	6NVY	LL	9/11/80	5226N 17137W
KYUNG YANG HO	6NBI	STRL/L	1/27/80	5840N 17711W
KYUNG YANG HO	6NBI	STRL/L	4/21/80	5710N 17348W
KYUNG YANG HO	6NBI	STRL/L	7/08/80	5537N 16530W
KYUNG YANG HO	6NBI	STRL/L	9/05/80	5443N 16543W
KYUNG YANG HO	6NBI	STRL/L	11/14/80	5620N 17015W
NAMBUG	6MXT	STRL/L	4/18/80	5642N 17300W
NAMBUG	6MXT	STRL/L	7/06/80	5320N 16705W
NO. 303 DAI HO	HMMI	STRL/L	2/24/80	5806N 17553W
NO. 303 DAI HO	HMMI	STRL/L	8/06/80	5444N 15828W
NO. 305 JINAM	6MLK	STRL/L	11/14/80	5610N 16930W
NO. 6 CHIL BO SAN HO	6NEQ	TRANS	2/05/80	5700N 16931W
NO. 6 CHIL BO SAN HO	6NEQ	TRANS	6/17/80	5722N 16902W
NO. 6 CHIL BO SAN HO	6NEQ	TRANS	8/08/80	5331N 16730W
NO. 70 OYANG HO	6MLQ	STRL/L	9/07/80	5512N 16722W
O DAE YANG NO. 201	6MKU	LL	6/22/80	5413N 16126W
PUNG YANG HO	6MLB	STRL/L	2/23/80	5807N 17555W
PUNG YANG HO	6MLB	STRL/L	4/18/80	5702N 17310W
PUNG YANG HO	6MLB	STRL/L	8/30/80	5227N 17205W
SALVIA	6MMD	STRL/L	8/30/80	5200N 17207W
SEO YANG HO	6MME	STRL/L	5/30/80	5657N 16840W
SEO YANG HO	6MME	STRL/L	9/06/80	5432N 16538W
SHIN AN HO	6NAX	STRL/L	2/23/80	5807N 17555W
SHIN AN HO	6NAX	STRL/L	6/18/80	5646N 16840W
SOO GONG NO. 51	6NEJ	STRL/L	6/17/80	5654N 16854W
YUYANG HO	HMQE	STRL/L	10/01/80	5159N 17204W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** POLAND ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
ANTARES	SQIJ	STRL/L	11/16/80	5447N 16540W
ARCTURUS	SQHX	STRL/L	11/18/80	5435N 16255W
DENEBOLA	SQDT	STRL/L	12/03/80	5431N 16238W
GARNELA	SQBB	STRL/L	2/17/80	5419N 16011W
GARNELA	SQBB	STRL/L	6/20/80	5219N 17156W
GEMINI	SQEL	STRL/L	1/29/80	5426N 15922W
GEMINI	SQEL	STRL/L	3/13/80	5618N 17102W
GEMINI	SQEL	STRL/L	5/31/80	5229N 17148W
GEMINI	SQEL	STRL/L	11/08/80	5430N 16256W
HAJDUK	SQHY	STRL/L	3/12/80	5621N 17114W
HAJDUK	SQHY	STRL/L	5/31/80	5235N 17145W
HUMBAK	SQBA	STRL/L	5/27/80	5618N 17051W
HUMBAK	SQBA	STRL/L	5/31/80	5230N 17155W
HUMBAK	SQBA	STRL/L	11/18/80	5434N 16256W
KALMAR	SQAJ	STRL/L	11/22/80	5539N 16807W
KAPITAN LEDOCHOWSKI	SQES	TRANS	11/19/80	5435N 16257W
KASZUBY 2	SQGG	TRANS	11/19/80	5435N 16300W
KOLIAS	SQGM	STRL/L	2/21/80	5625N 17110W
KOLIAS	SQGM	STRL/L	11/17/80	5433N 16307W
LEPUS	SQAD	STRL/L	4/08/80	5642N 17217W
MARLIN	SQGY	STRL/L	2/06/80	5418N 16032W
OTOL	SQGX	STRL/L	2/22/80	5629N 17111W
OTOL	SQGX	STRL/L	5/31/80	5231N 17150W
PERSEUS	SQDW	STRL/L	2/05/80	5419N 16010W
PERSEUS	SQDW	STRL/L	2/16/80	5418N 15955W
PERSEUS	SQDW	STRL/L	11/19/80	5435N 16300W
SATURN	SQAX	STRL/L	1/29/80	5425N 15922W
SATURN	SQAX	STRL/L	12/03/80	5431N 16238W
TAZAR	SQGC	STRL/L	2/22/80	5629N 17111W
VEGA	SQDU	STRL/L	2/06/80	5420N 16034W
VEGA	SQDU	STRL/L	5/31/80	5220N 17253W
WALEN	SQDI	STRL/L	2/05/80	5419N 16010W
WALEN	SQDI	STRL/L	6/01/80	5225N 17146W

APPENDIX 10 - BOARDINGS OF FOREIGN VESSELS OFF ALASKA - 1980 (CONTINUED)

*** TAIWAN ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
GOLDEN DRAGON NO. 1	BVHY	STRL/L	2/07/80	5636N 17237W
HIGHLY NO. 301	BVMV	STRL/M	2/18/80	5703N 17356W
HIGHLY NO. 302	BYGM	STRL/M	1/26/80	5729N 17346W
HIGHLY NO. 302	BYGM	STRL/M	2/07/80	5634N 17240W
SEA LIGHT	BYIX	STRL/M	4/19/80	5904N 17826W

*** WEST GERMANY ***

VESSEL NAME	CALL SIGN	VESSEL TYPE	DATE OF BOARDING	POSITION
FRIEDRICH BUSSE	DENR	STRL/L	9/01/80	5434N 16534W
FRIEDRICH BUSSE	DENR	STRL/L	11/16/80	5445N 16540W