

JOINT VENTURES GULF OF ALASKA

VENTURE	NUMBER OF VESSELS ^{1/}	
	FOREIGN	U.S. ^{2/}
NIPPON SUISAN/UNIVERSAL SEAFOODS	3	6
NICHIRO GYOGYO/PETER PAN	1	2
KYOKUYO/WHITNEY FIDALGO	1	2
TAIYO/WESTWARD TRAWLERS	2	7
WONG YANG/FISH PRODUCERS ASSOCIATES	6	8
N. PAC. JOINT FISH. OP. COMM./J.V. FISHERIES	5	5
* MARINE ENTERPRISE/NOR. PAC. CORP.	1	4
* HIGHLY ENTERPRISE/ALASKA CONTACT.	2	5
TOTAL	21	38

CATCH THROUGH SEPTEMBER 10:

POLLOCK	131,990
ALL OTHERS	4,456
TOTAL	136,446

BERING SEA/ALEUTIANS

VENTURE	NUMBER OF VESSELS	
	FOREIGN	U.S. ^{2/}
U.S.S.R./MARINE RESOURCES COMPANY	8	18
WONG YANG/FISH PRODUCERS ASSOCIATES	3	6
HOKO/JEFF HENDRICKS	1	4
* N.P.J.F. OP. COMM./J.V. FISHERIES	1	6
OHTORI/WHITNEY FIDALGO	1	3
NIPPON SUISAN/UNIVERSAL SEAFOODS	2	7
TAIYO/WESTWARD TRAWLERS	2	7
TOTALS	18	45

CATCH THROUGH SEPTEMBER 10:

POLLOCK	143,772
FLOUNDERS	34,189
ALL OTHERS	26,819
TOTAL	204,780

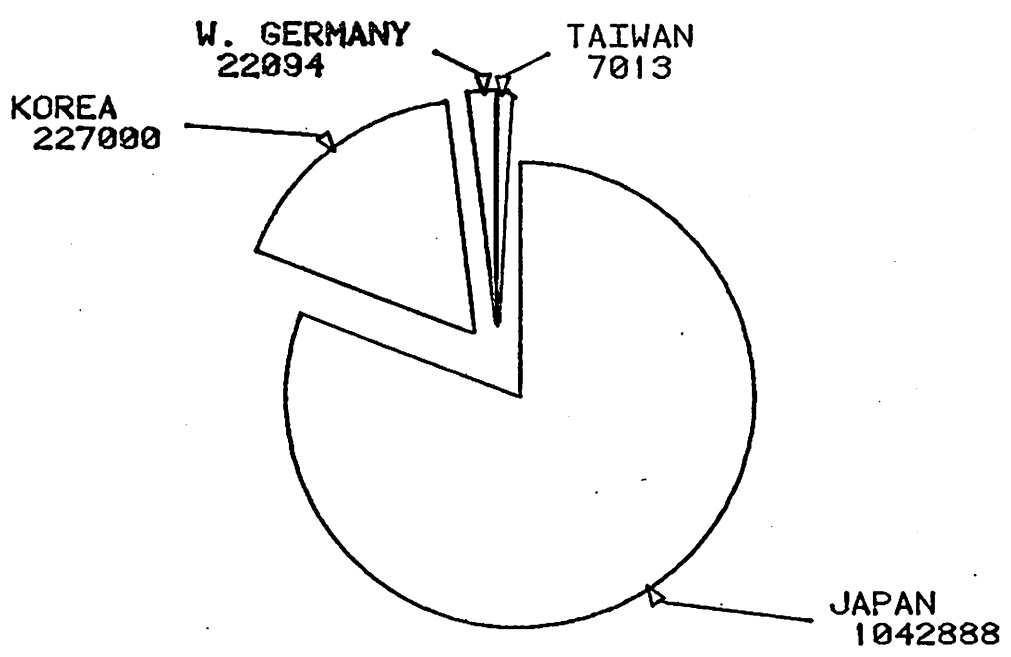
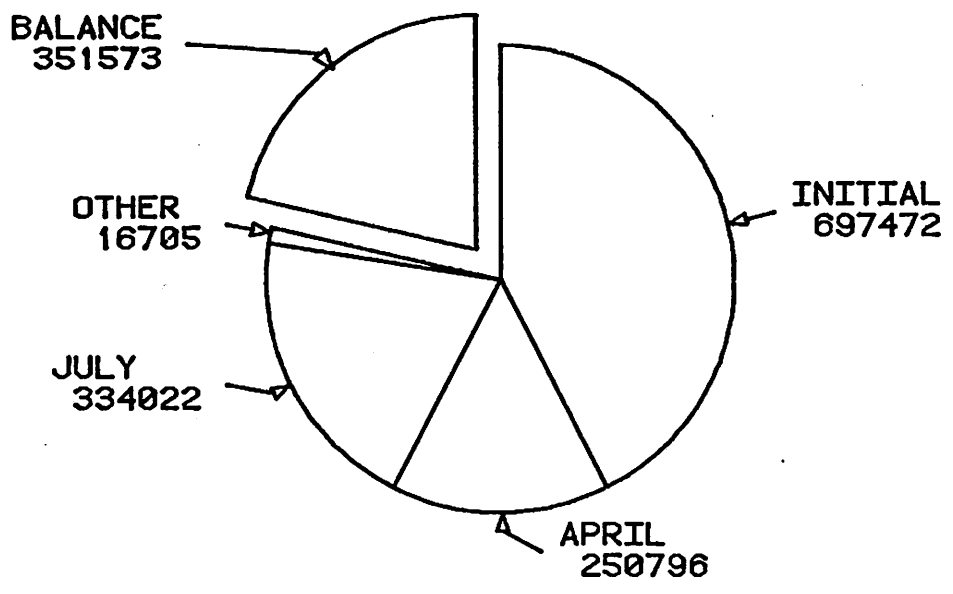
^{1/} maximum number; not necessarily present concurrently.
^{2/} some U.S. vessels have fished for more than one joint venture.
 * currently operating

JOINT VENTURES
GULF OF ALASKA

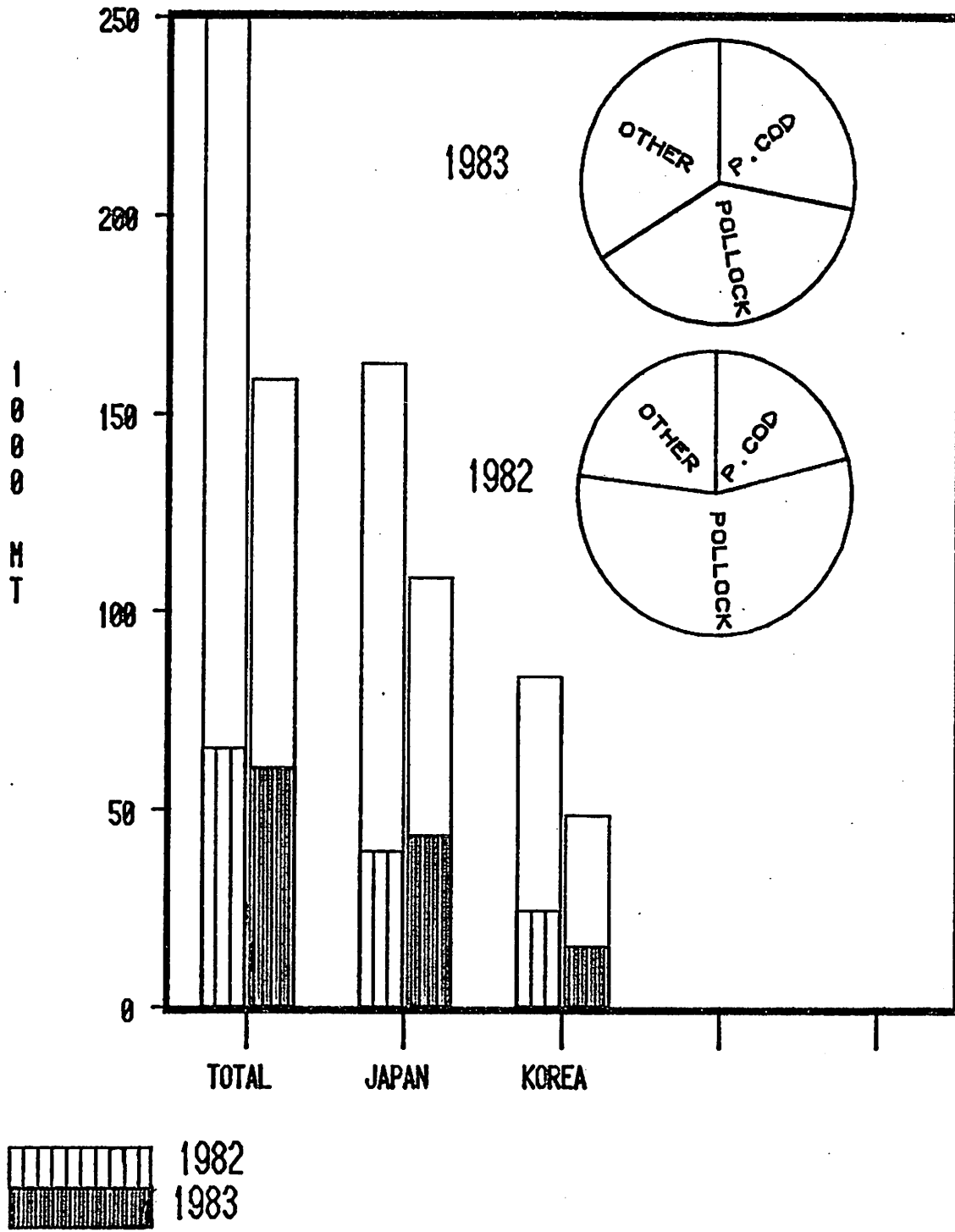
BERING SEA VENTURES

ALLOCATIONS OF TALFF OFF ALASKA (MT)

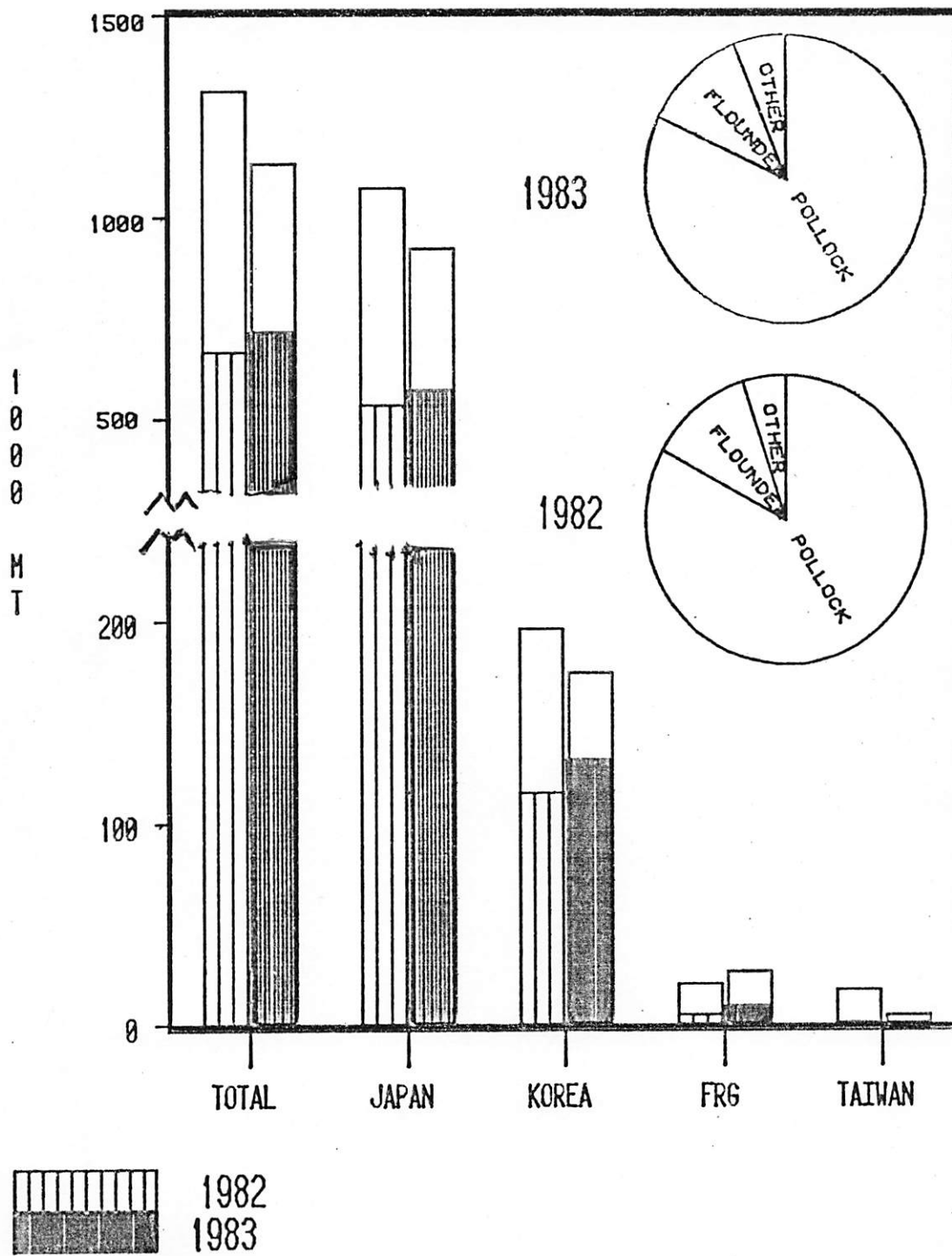
(TALFF AFTER AUGUST RES. REL.=1,650,568)



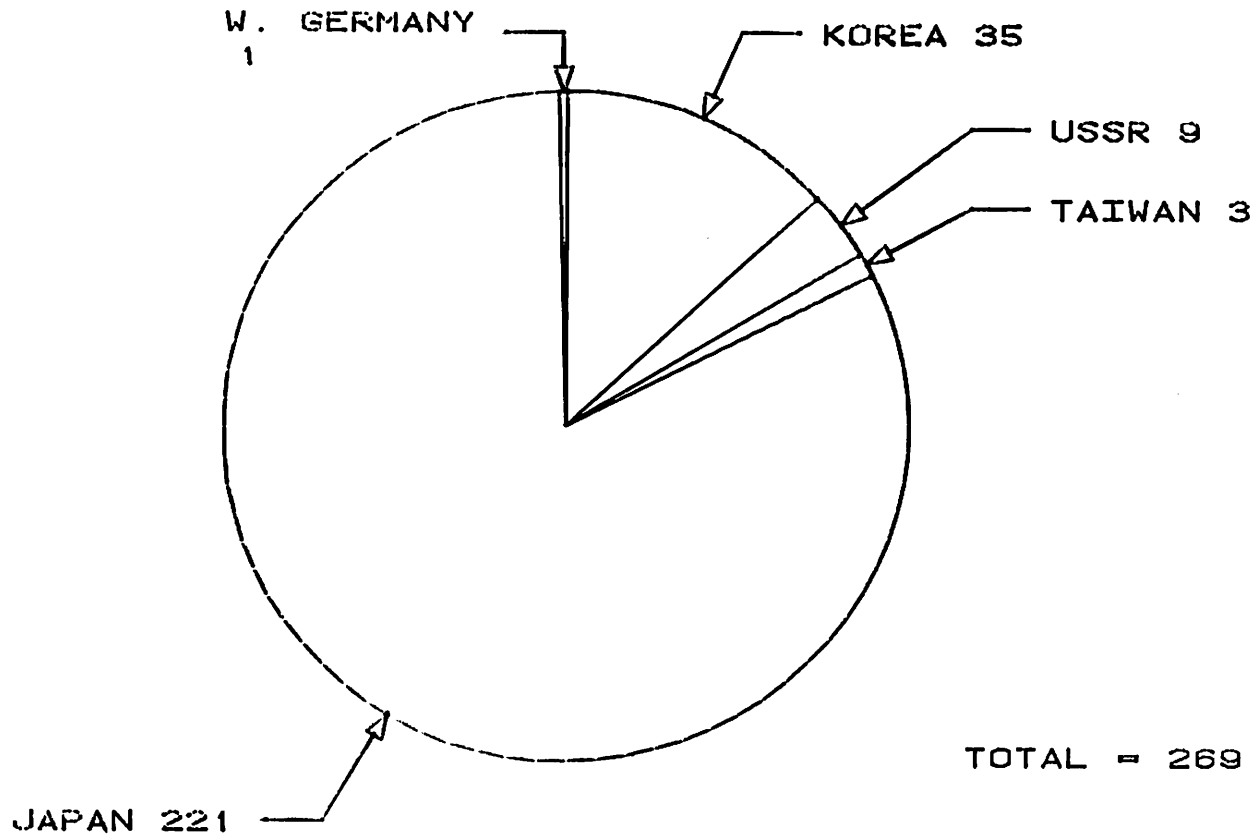
FOREIGN FISHING: GULF OF ALASKA (THROUGH AUGUST)



FOREIGN FISHING: BERING SEA/ALEUTIANS (THROUGH AUGUST)

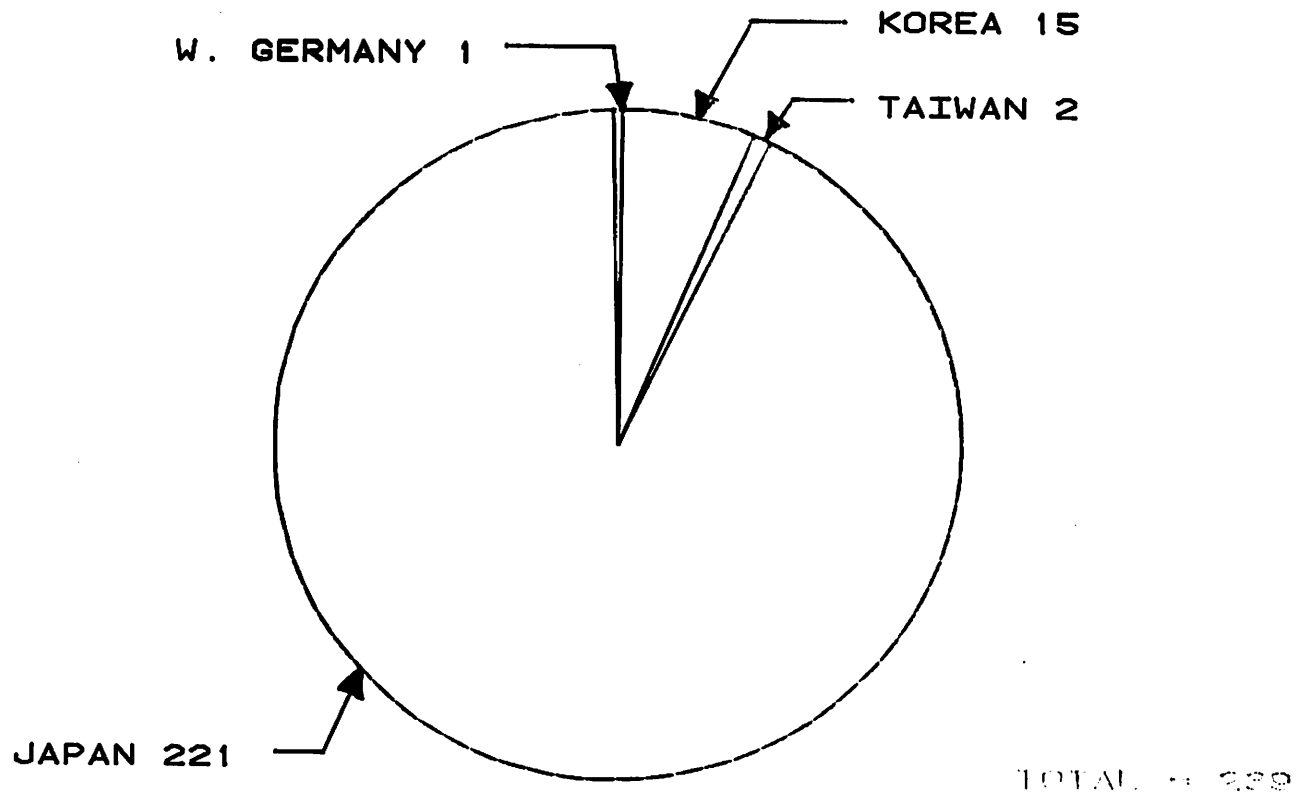


NUMBER OF FOREIGN VESSELS OFF ALASKA AUGUST 1983

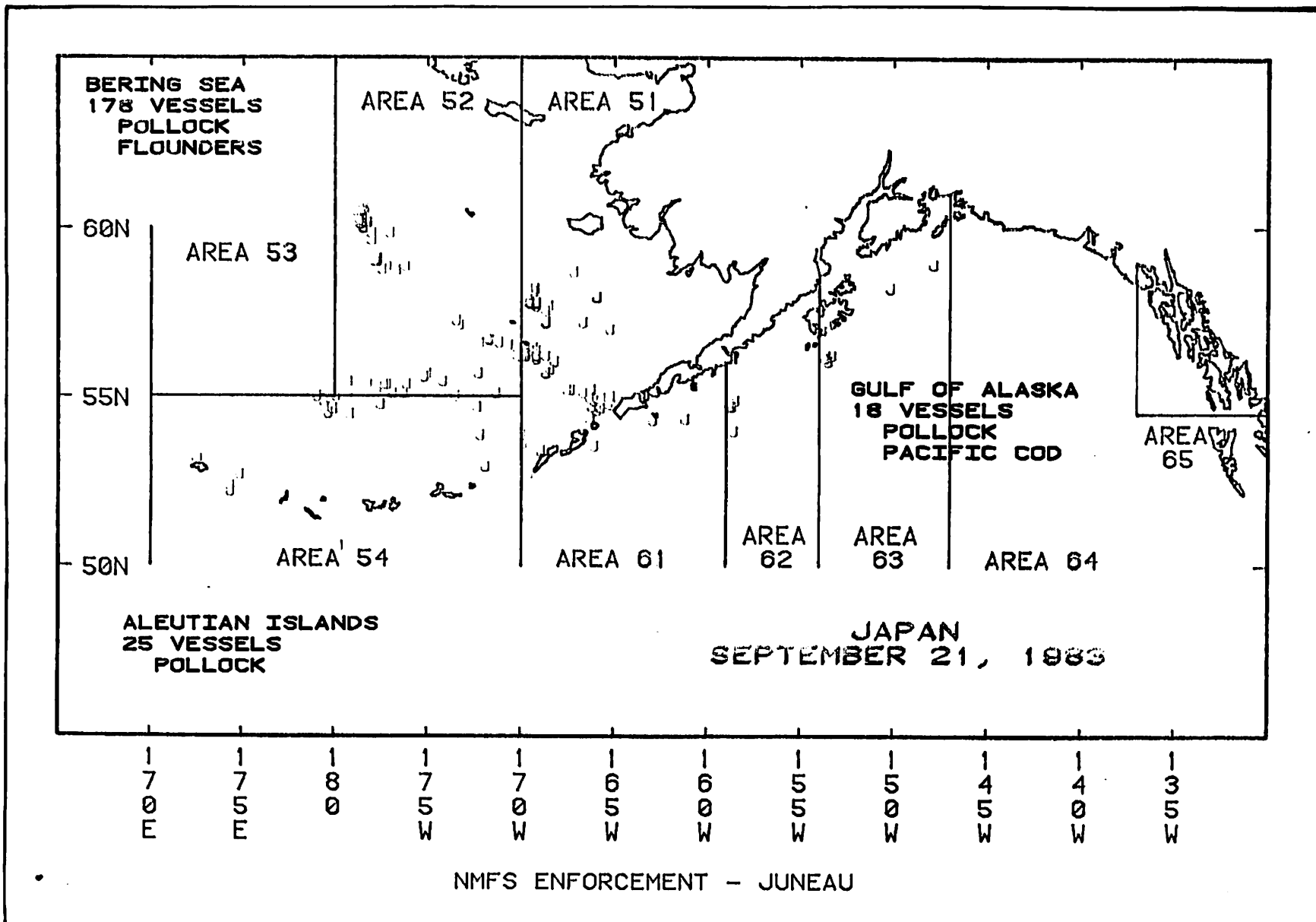


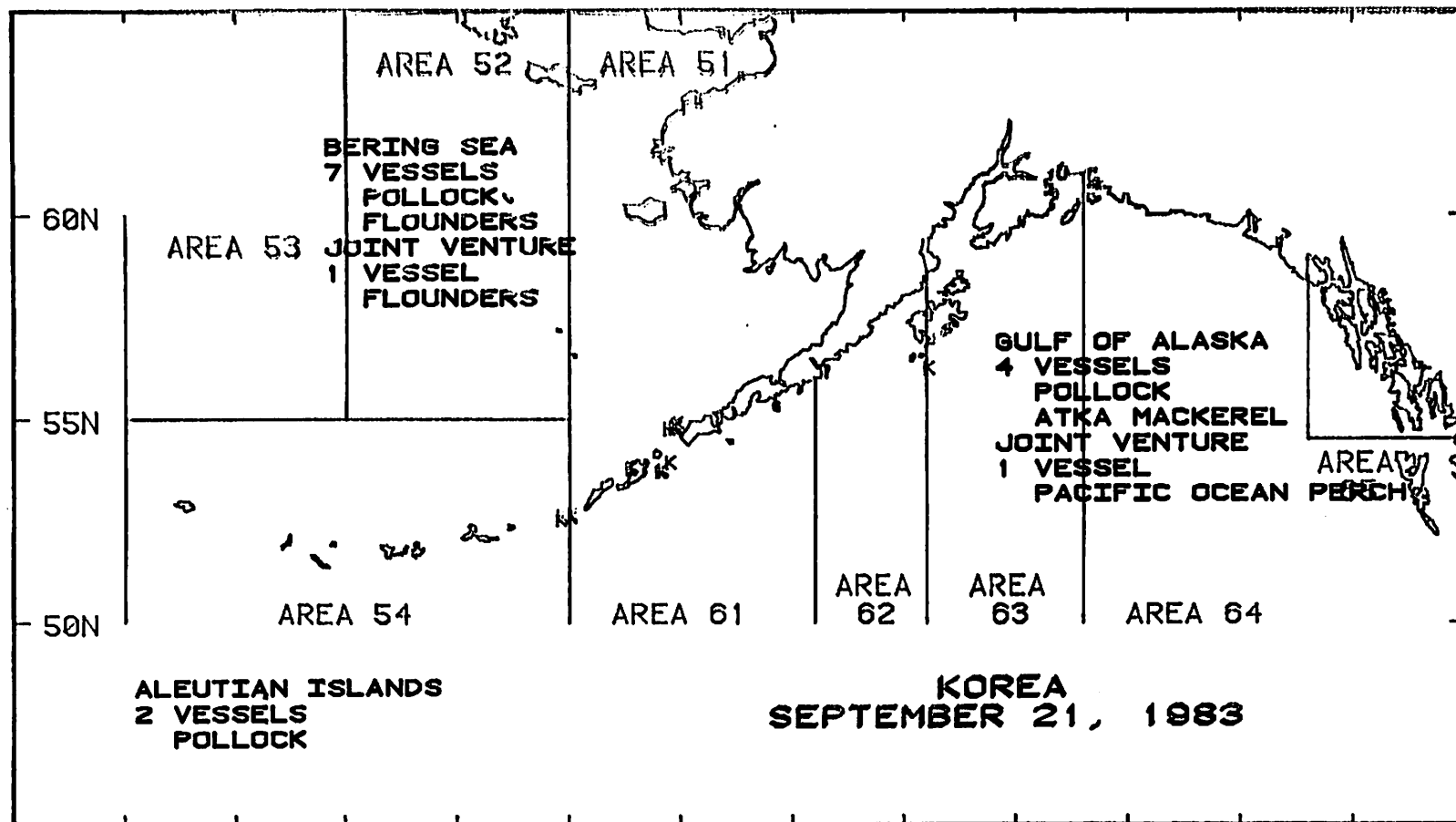
NMFS ENFORCEMENT - JUNEAU

NUMBER OF FOREIGN VESSELS OFF ALASKA
SEPTEMBER 21, 1982



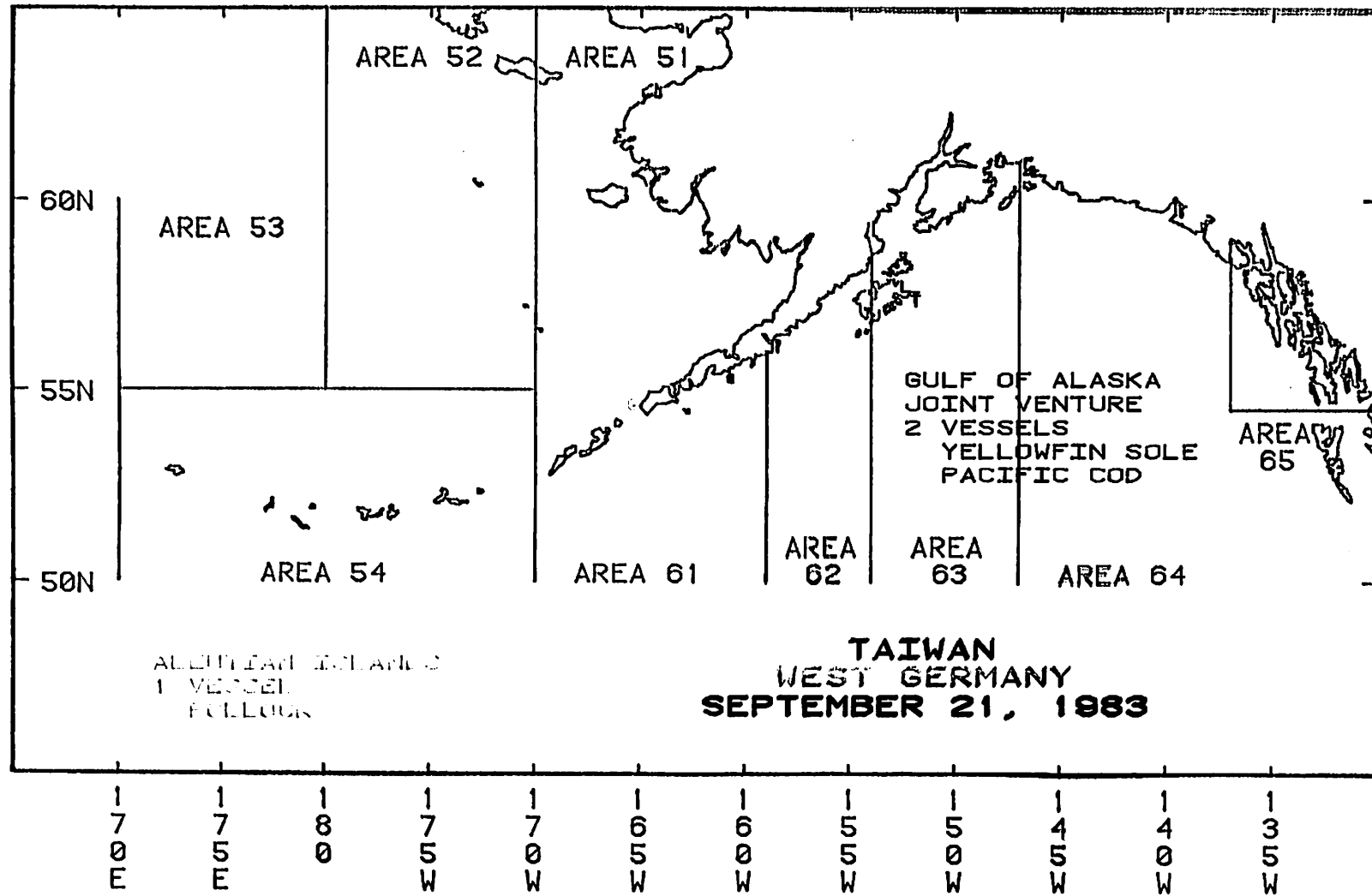
NMFS ENFORCEMENT - JUNEAU





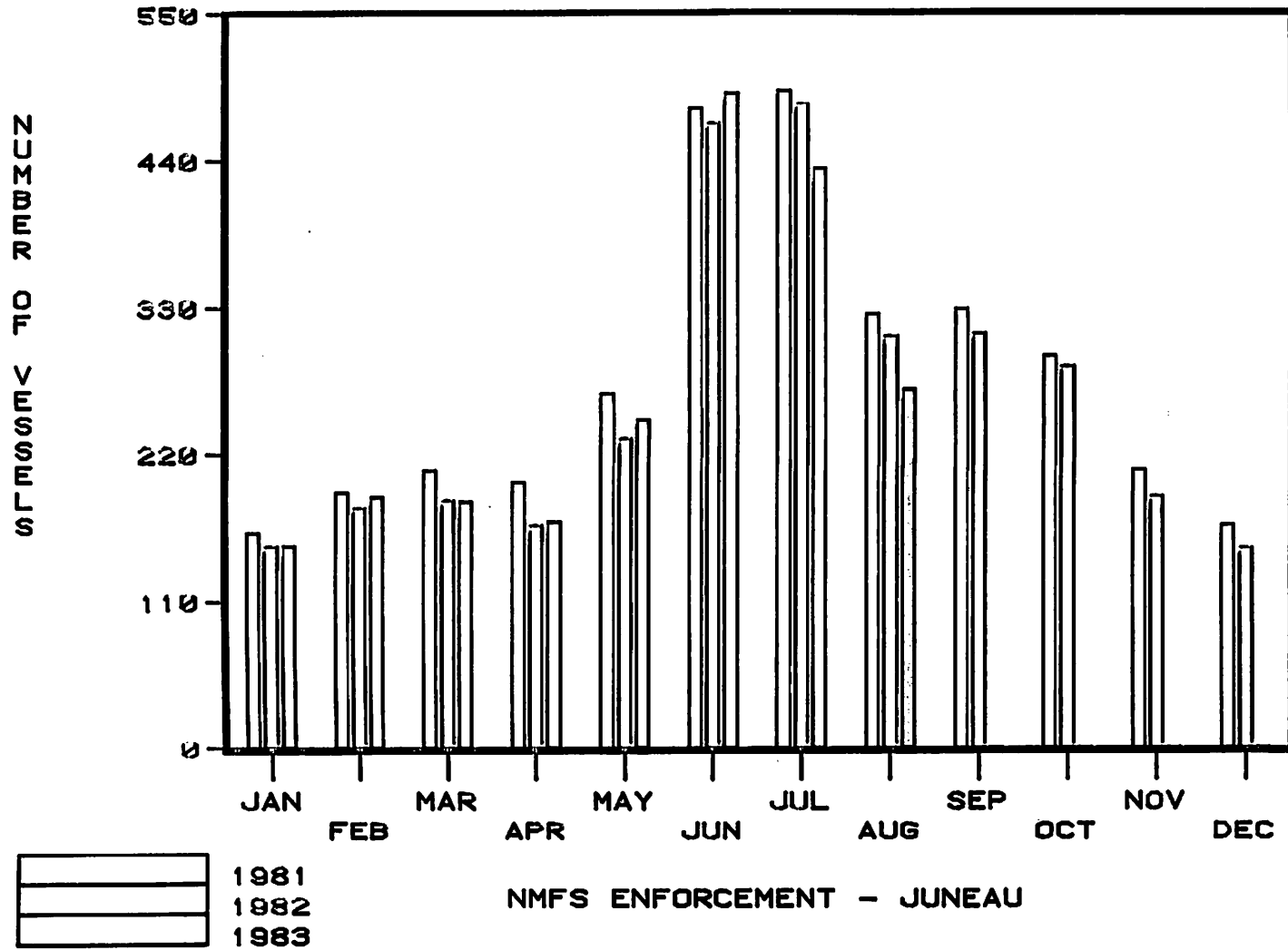
170E	175E	180	175W	170W	165W	160W	155W	150W	145W	140W	135W
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NMFS ENFORCEMENT - JUNEAU



NMFS ENFORCEMENT - JUNEAU

NUMBER OF FOREIGN VESSELS OFF ALASKA 1981 TO 1983



NUMBER OF FOREIGN VESSEL DAYS OFF ALASKA
1981 TO 1983

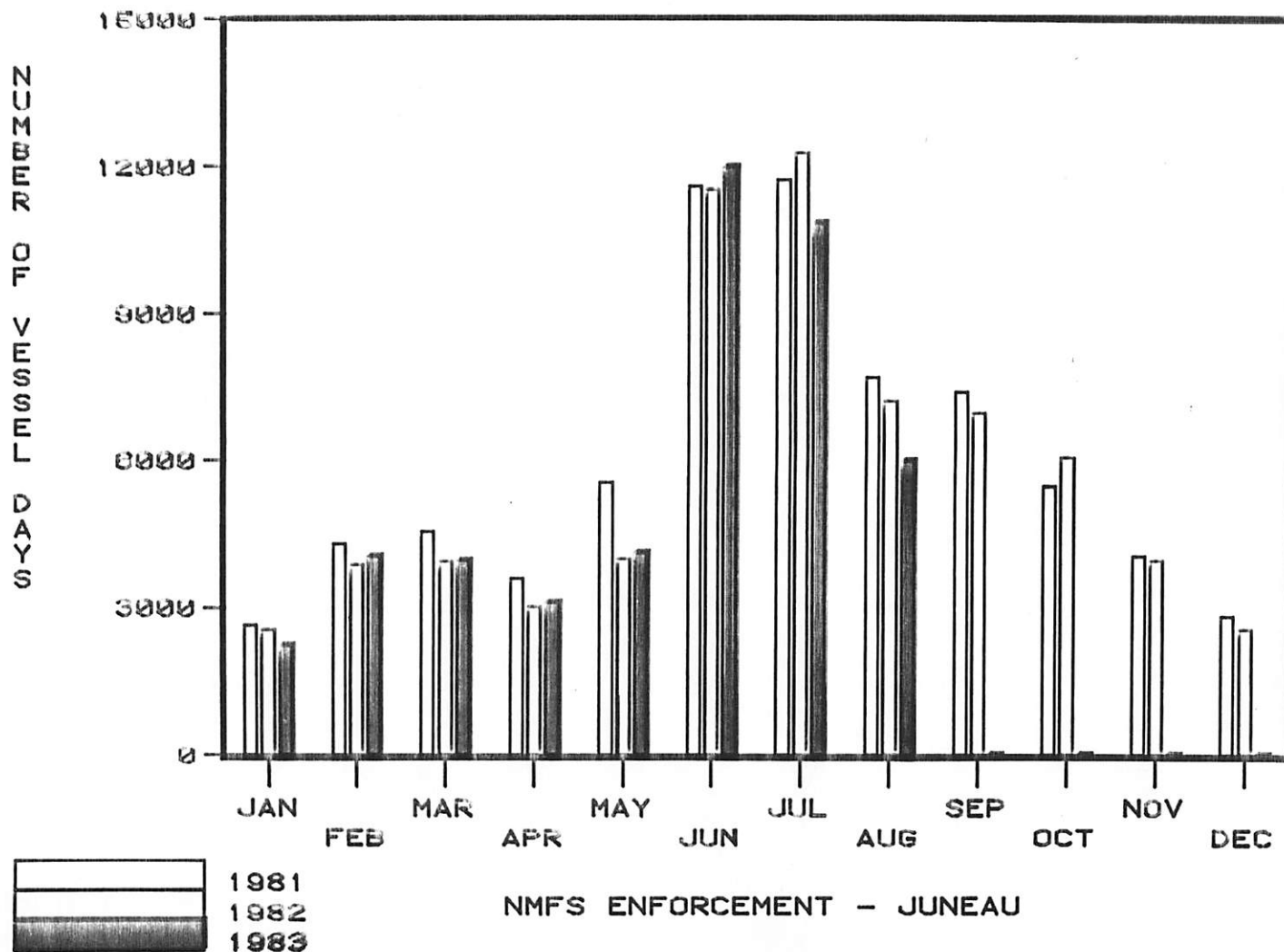


Table 1.--Observer coverage of foreign and joint-venture processing vessels for year to date and the most recent month of fishing, 1983. The same data for 1982 are added at the bottom of the table for comparison.

Region	Foreign days	Observer days	Percent coverage	Foreign vessels	Observer vessels	Percent sampled
<u>1983 Data</u>						
Year to date --through August 1983						
Bering Sea	20,331	8,072	39.7	202	186	92.1
Gulf of Alaska	4,759	2,314	48.6	91	77	84.6
Wash.-Ore.-Calif.	1,393	1,185	85.1	15	15	100.0
Total	26,483	11,571	43.7	308	278	90.3
Recent month -- August 1983						
Bering Sea	2,280	1,438	63.1	143	75	52.4
Gulf of Alaska	855	447	52.3	51	32	62.7
Wash.-Ore.-Calif	352	328	93.2	11	11	100.0
Total	3,487	2,213	63.5	205	118	57.6
<u>1982 Data</u>						
Year through August 1982						
Bering Sea	21,626	5,436	25.1	208	178	85.6
Gulf of Alaska	4,726	1,295	27.4	94	69	73.4
Wash.-Ore.-Calif.	1,639	1,264	77.1	19	19	100.0
Total	27,991	7,995	28.6	321	266	82.9
August 1982						
Bering Sea	2,950	1,236	41.9	148	86	58.1
Gulf of Alaska	661	336	50.8	41	25	61.0
Wash.-Ore.-Calif.	306	226	73.9	14	13	92.9
Total	3,917	1,798	45.9	203	124	61.1

Table 2.--Summary of observer coverage of (A) foreign and (B) joint-venture fisheries in the Bering Sea/Aleutian region through August 1983.

Nation - Vessel	Totals for Year						Recent Month - August 1983					
	Foreign effort (days)	Observer effort (days)	Per- cent cover- age (%)	For- eign Ves- sels (no.)	Obser- ver ves- sels (no.)	Per- cent sam- pled (%)	Foreign effort (days)	Observer effort (days)	Per- cent cover- age (%)	For- eign Ves- sels (no.)	Obser- ver ves- sels (no.)	Per- cent sam- pled (%)
A. Foreign directed fishery												
Japan-												
Surimi mothership	480	382	79.6	5	5	100.0	175	168	96.0	5	5	100.0
Freezer mothership	71	71	100.0	1	1	100.0	35	35	100.0	1	1	100.0
Small trawler	13,386	4,120	30.8	102	96	94.1	704	360	51.1	69	18	26.1
Larger freezer trawler	272	205	75.4	3	3	100.0	70	58	82.9	2	2	100.0
Large surimi trawler	1,348	953	70.7	15	14	93.3	382	328	85.9	12	12	100.0
Longliner	730	390	53.4	22	20	90.9	115	89	77.4	13	10	76.9
S. Korea -												
Small trawler	247	27	10.9	7	3	42.9	17	0	0.0	3	0	0.0
Large freezer trawler	1,829	778	42.5	23	23	100.0	336	176	52.4	21	16	76.2
Longliner	76	67	88.2	1	1	100.0	12	10	83.3	1	1	100.0
W. Germany -												
Large freezer trawler	146	102	69.9	1	1	100.0	35	31	88.6	1	1	100.0
Total	18,585	7,095	38.2	180	167	92.8	1,881	1,255	66.7	128	66	51.6
B. Joint venture fishery												
US-USSR JV mothership	1,013	637	62.9	8	8	100.0	165	93	56.4	6	5	83.3
US-Korea JV mothership	216	65	30.1	6	4	66.7	56	0	0.0	3	0	0.0
US-Japan JV mothership	517	275	53.2	8	7	87.5	178	90	50.6	6	4	66.7
Total	1,746	977	56.0	22	19	86.4	399	183	45.9	15	9	60.0
GRAND TOTAL	20,331	8,072	39.7	202	186	92.1	2,280	1,438	63.1	143	75	52.4

Table 3.--Summary of observer coverage of (A) foreign and (B) joint-venture fisheries in the Gulf of Alaska region through August 1983.

Nation - Vessel class	Totals for Year						Recent Month - August 1983					
	Foreign effort (days)	Observer effort (days)	Per-cent cover-age (%)	For-eign Ves-sels (no.)	Obser-ver ves-sels (no.)	Per-cent sam-pled (%)	Foreign effort (days)	Observer effort (days)	Per-cent cover-age (%)	For-eign Ves-sels (no.)	Obser-ver ves-sels (no.)	Per-cent sam-pled (%)
A. Foreign directed fishery												
Japan -												
Small trawler	1,116	613	54.9	14	13	92.9	388	208	53.6	14	10	71.4
Large freezer trawler	152	97	63.8	2	2	100.0	105	87	82.9	3	3	100.0
Large surimi trawler	366	239	65.3	5	5	100.0	34	33	97.1	1	1	100.0
Longliner	1,786	461	25.8	22	21	95.5	124	12	9.7	8	4	50.0
S. Korea -												
Small trawler	35	11	31.4	3	2	66.7	17	11	64.7	2	2	100.0
Large freezer trawler	229	78	34.1	21	12	57.1	88	32	36.4	19	8	42.1
Longliner	64	35	54.7	1	1	100.0	16	10	62.5	1	1	100.0
Total	3,748	1,534	40.9	68	56	82.4	772	393	50.9	48	29	60.4
B. Joint venture fishery												
US-Korea JV mothership	498	349	70.1	14	12	85.7	13	1	7.7	1	1	100.0
US-Japan JV mothership	422	360	85.3	7	7	100.0	0	0	-	0	0	-
US-Taiwan JV mothership	91	71	78.0	2	2	100.0	70	53	75.7	2	2	100.0
Total	1,011	780	77.2	23	21	91.3	83	54	65.1	3	3	100.0
GRAND TOTAL	4,759	2,314	48.6	91	77	84.6	855	447	52.3	51	32	62.7

Table 4.--Summary of observer coverage of joint-venture fisheries in the Washington-Oregon California region through August 1983.

Nation - Vessel class	Totals for Year						Recent Month - August 1983					
	Foreign effort (days)	Observer effort (days)	Per-cent cover-age (%)	For-eign Ves-sels (no.)	Obser-ver ves-sels (no.)	Per-cent sam-pled (%)	Foreign effort (days)	Observer effort (days)	Per-cent cover-age (%)	For-eign Ves-sels (no.)	Obser-ver ves-sels (no.)	Per-cent sam-pled (%)
US-USSR JV mothership	1,393	1,185	85.1	15	15	100.0	352	328	93.2	11	11	100.0
Total	1,393	1,185	85.1	15	15	100.0	352	328	93.2	11	11	100.0

Table 5.--Monthly prohibited species summary (by number) in the Bering Sea.

Month/Nation	Groundfish catch (1,000's t)		Numbers (1000's)							
	1982	1983	Halibut		Salmon		King Crab		Tanner Crab	
			1982	1983	1982	1983	1982	1983	1982	1983
January										
Japan	21.2	14.5	38.0	43.2	1.1	0.1	13.9	7.9	334.8	28.2
Korea	15.7	1.0	16.9	0.2	4.1	0.0	<0.1	<0.1	6.1	0.1
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Germany	0.6	2.0	0.1	0.0	<0.1	<0.1	0.0	<0.1	0.1	0.0
Joint-Venture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
February										
Japan	44.1	42.0	21.0	44.4	1.6	1.9	15.4	15.4	109.8	172.2
Korea	19.7	14.8	0.1	3.1	<0.1	0.1	0.0	2.6	0.0	23.9
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Germany	0.0	1.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0
Joint-Venture	<0.1	0.5	0.2	5.2	<0.1	<0.1	0.0	0.0	<0.1	8.4
March										
Japan	46.5	56.2	31.3	34.3	1.3	1.6	22.3	42.0	147.4	250.0
Korea	10.7	3.8	3.7	0.2	0.9	0.0	<0.1	0.6	1.2	2.9
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	2.0	3.6	22.9	7.1	0.3	<0.1	0.0	4.6	0.8	34.4
April										
Japan	19.7	29.5	3.0	20.9	0.8	0.3	12.3	16.6	49.2	100.7
Korea	18.3	19.1	74.1	45.7	0.4	0.1	2.8	2.5	28.9	189.3
Taiwan	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.1	0.0
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	7.8	17.7	19.2	12.4	0.7	0.1	10.5	24.8	3.2	41.2
May										
Japan	24.1	19.5	7.9	12.8	0.1	<0.1	12.6	20.1	62.0	137.7
Korea	17.6	22.6	58.0	49.8	<0.1	<0.1	9.0	62.3	162.6	74.4
Taiwan	0.7	0.0	1.5	0.0	<0.1	0.0	<0.1	0.0	1.9	0.0
West Germany	0.8	0.5	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0
Joint-Venture	13.2	22.4	13.5	20.7	0.2	0.1	37.2	56.8	6.2	50.4
June										
Japan	99.8	123.1	7.7	22.2	0.2	0.1	39.5	46.7	114.3	176.8
Korea	5.9	29.5	3.4	15.5	<0.1	<0.1	0.4	25.5	9.5	91.7
Taiwan	1.7	0.0	0.5	0.0	<0.1	0.0	0.5	0.0	46.3	0.0
West Germany	2.1	3.0	0.0	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0
Joint-Venture	36.6	53.1	19.9	60.3	0.2	0.7	29.4	168.6	2.1	92.6
July										
Japan	137.8	132.7	13.7	26.6	0.2	0.9	13.7	9.1	53.8	52.5
Korea	13.9	17.1	2.8	3.7	<0.1	0.0	9.2	18.5	12.5	13.9
Taiwan	0.4	0.0	0.2	0.0	0.0	0.0	<0.1	0.0	12.8	0.0
West Germany	1.9	2.7	0.0	0.0	<0.1	<0.1	0.0	0.0	0.0	0.0
Joint-Venture	21.1	52.9	84.8	95.7	0.1	1.9	47.1	241.3	27.1	101.3
August										
Japan	153.1	170.1	5.6	8.6	0.6	3.0	41.1	22.4	154.1	97.7
Korea	17.1	26.2	4.0	3.1	<0.1	0.1	21.2	6.9	10.1	21.2
Taiwan	0.3	0.0	0.1	0.0	0.0	0.0	0.6	0.0	3.9	0.0
West Germany	2.3	3.0	0.0	<0.1	<0.1	<0.1	<0.1	0.0	0.0	0.0
Joint-Venture	15.2	49.1	220.5	89.6	0.3	23.6	49.0	28.5	12.9	100.5
Total through August										
Japan	546.3	587.6	128.2	212.9	5.9	7.8	170.8	180.2	1,025.4	1,015.8
Korea	118.8	134.1	163.0	121.3	5.4	0.3	42.6	119.0	230.9	417.4
Taiwan	3.4	0.0	3.2	0.0	<0.1	0.0	1.1	0.0	66.0	0.0
West Germany	7.7	12.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.0
Foreign Total	676.2	733.9	294.5	334.2	11.3	8.1	214.5	299.2	1,322.4	1,433.2
Joint-Venture	95.9	199.3	381.0	291.0	1.8	26.5	173.2	524.6	52.3	428.8

Table 6.--Monthly prohibited species summary (by weight) in the Bering Sea.

Month/Nation	Groundfish catch (1,000's t)				Weight (tons)							
	1982		1983		Halibut		Salmon		King Crab		Tanner Crab	
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
January												
Japan	21.2	14.5	154.0	63.0	4.9	0.5	11.2	9.4	55.8	6.4		
Korea	15.7	1.0	99.0	0.8	16.5	0.0	<0.1	0.1	1.9	<0.1		
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
West Germany	0.6	2.0	0.3	0.0	<0.1	<0.1	0.0	<0.1	<0.1	<0.1		
Joint-Venture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
February												
Japan	44.1	42.0	128.5	125.7	7.3	9.2	19.0	12.3	22.3	23.9		
Korea	19.7	14.8	0.2	18.7	0.1	0.3	0.0	2.6	0.0	2.7		
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
West Germany	0.0	1.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0		
Joint-Venture	<0.1	0.5	0.3	5.6	<0.1	<0.1	0.0	0.0	<0.1	0.8		
March												
Japan	46.5	56.2	127.8	135.6	4.9	7.2	27.5	28.2	30.1	49.1		
Korea	10.7	3.8	21.3	1.1	3.6	0.0	<0.1	0.5	0.4	0.8		
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Joint-Venture	2.0	3.6	28.1	7.2	1.5	<0.1	0.0	4.5	0.3	7.5		
April												
Japan	19.7	29.5	19.4	80.0	2.4	1.8	10.7	13.4	5.9	17.4		
Korea	18.3	19.1	162.8	114.5	1.8	0.4	3.0	3.1	8.0	37.6		
Taiwan	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0		
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Joint-Venture	7.8	17.7	26.2	17.2	2.4	0.8	10.4	22.5	1.3	9.6		
May												
Japan	24.1	19.5	27.1	49.2	0.6	0.1	8.1	16.6	9.7	23.7		
Korea	17.6	22.6	63.4	96.0	0.1	<0.1	11.7	49.7	26.4	14.8		
Taiwan	0.7	0.0	0.9	0.0	0.0	0.0	<0.1	0.0	0.3	0.0		
West Germany	0.8	0.5	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0		
Joint-Venture	13.2	22.4	27.4	37.6	0.7	0.3	17.2	37.4	2.2	15.3		
June												
Japan	99.8	123.1	26.9	83.4	0.3	0.3	19.9	38.2	21.0	29.3		
Korea	5.9	29.5	7.9	53.5	<0.1	0.1	0.4	22.3	1.5	19.9		
Taiwan	1.7	0.0	2.0	0.0	<0.1	0.0	0.2	0.0	13.2	0.0		
West Germany	2.1	3.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	0.0		
Joint-Venture	36.6	53.1	40.8	82.5	0.6	2.7	16.7	72.4	0.9	40.7		
July												
Japan	137.8	132.7	53.1	60.3	0.4	2.0	12.4	10.1	10.5	12.0		
Korea	13.9	17.1	13.8	10.3	<0.1	0.0	7.4	16.5	2.3	3.6		
Taiwan	0.4	0.0	1.2	0.0	0.0	0.0	0.1	0.0	4.5	0.0		
West Germany	1.9	2.7	0.0	0.0	0.0	0.1	<0.1	0.0	0.0	0.0		
Joint-Venture	21.1	52.9	132.9	141.5	0.3	4.4	16.4	118.5	4.7	29.4		
August												
Japan	153.1	170.1	19.2	31.8	1.7	6.7	37.6	17.8	29.4	18.4		
Korea	17.1	26.2	36.2	9.3	0.1	0.2	21.7	6.0	2.0	3.0		
Taiwan	0.3	0.0	2.1	0.0	0.0	0.0	0.6	0.0	1.0	0.0		
West Germany	2.3	3.0	0.0	0.0	0.1	<0.1	<0.1	0.0	0.0	0.0		
Joint-Venture	15.2	49.1	264.7	149.8	0.8	50.8	23.3	13.1	4.6	27.3		
Total through August												
Japan	546.3	587.6	556.0	628.7	22.5	27.7	146.4	146.0	184.7	180.2		
Korea	118.8	134.1	404.6	304.2	22.2	1.0	44.2	100.8	42.5	82.5		
Taiwan	3.4	0.0	6.5	0.0	<0.1	0.0	0.9	0.0	19.2	0.0		
West Germany	7.7	12.2	0.3	<0.1	0.2	0.1	<0.1	<0.1	<0.1	0.0		
Foreign Total	676.2	733.9	967.4	932.9	44.9	28.8	191.5	246.8	246.4	262.7		
Joint-Venture	95.9	199.3	520.4	441.4	6.3	59.0	84.0	268.4	14.0	130.5		

Table 7.--Monthly prohibited species summary (by number) in the Gulf of Alaska.

Month/Nation	Groundfish catch (1,000's t)		Numbers (1,000's)							
	1982	1983	Halibut		Salmon		King Crab		Tanner Crab	
			1982	1983	1982	1983	1982	1983	1982	1983
January										
Japan	3.1	1.5	12.0	20.0	<0.1	<0.1	0.0	<0.1	0.1	0.6
Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	3.9	3.7	<0.1	<0.1	0.2	0.4	0.0	0.0	0.0	0.0
February										
Japan	4.3	4.0	28.1	38.8	<0.1	0.0	<0.1	<0.1	0.8	3.2
Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	19.8	41.4	<0.1	0.1	0.9	1.0	0.0	0.0	0.0	0.0
March										
Japan	3.3	4.4	32.5	50.7	0.0	0.0	<0.1	<0.1	0.6	1.4
Korea	<0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	<0.1	0.0
Joint-Venture	40.3	84.4	<0.1	0.1	0.3	0.4	<0.1	0.0	0.0	0.0
April										
Japan	1.6	0.9	38.7	22.9	<0.1	0.0	<0.1	<0.1	2.2	0.8
Korea	0.1	0.2	0.2	0.1	0.0	0.0	<0.1	<0.1	0.1	1.8
Joint-Venture	10.3	2.5	<0.1	0.6	0.1	<0.1	0.0	<0.1	0.0	<0.1
May										
Japan	0.7	1.1	17.0	25.7	<0.1	0.0	0.1	<0.1	0.6	1.8
Korea	0.3	0.1	3.1	0.1	0.0	0.0	<0.1	<0.1	0.4	0.9
Joint-Venture	10.2	0.8	2.3	2.1	0.0	<0.1	0.0	<0.1	0.4	<0.1
June										
Japan	9.3	12.6	65.6	81.9	1.1	0.8	0.5	0.6	17.3	4.2
Korea	16.6	2.5	7.5	3.3	0.3	<0.1	1.0	<0.1	8.0	0.1
Joint-Venture	0.0	0.5	0.0	1.5	0.0	0.0	0.0	<0.1	0.0	0.0
July										
Japan	9.7	10.5	12.6	37.8	0.6	1.0	0.1	0.1	3.2	1.2
Korea	5.0	7.5	34.7	6.8	<0.1	0.3	<0.1	0.0	0.4	0.3
Joint-Venture	0.0	1.1	0.0	2.4	0.0	0.2	0.0	<0.1	0.0	0.3
August										
Japan	9.3	10.1	14.8	42.7	0.2	0.4	0.2	0.1	4.0	2.2
Korea	3.6	6.7	6.7	5.8	<0.1	0.7	<0.1	<0.1	0.1	0.5
Joint-Venture	0.0	1.7	0.0	17.2	0.0	0.3	0.0	1.1	0.0	33.5
Total through August										
Japan	41.3	45.1	221.3	320.5	1.9	2.2	1.0	0.9	28.8	15.4
Korea	25.6	17.0	52.4	16.1	0.4	1.0	1.1	<0.1	9.0	3.6
Foreign Total	66.9	62.1	273.7	336.6	2.3	3.2	2.1	0.9	37.8	19.0
Joint-Venture	74.5	136.1	2.4	24.0	1.5	2.3	<0.1	1.1	0.4	33.8

Table 8.--Monthly prohibited species summary (by weight) in the Gulf of Alaska.

Month/Nation	Groundfish catch (1,000's t)			Salmon			King crab			Tanner crab		
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
January	3.1	1.5	23.3	56.8	0.1	0.1	<0.1	<0.1	0.0	0.0	0.1	0.5
Japan	3.1	1.5	23.3	56.8	0.0	0.0	<0.1	<0.1	0.0	0.0	0.0	0.0
Korea	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	3.9	3.7	0.2	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
February	4.3	4.0	117.1	104.0	<0.1	<0.1	0.0	0.0	<0.1	<0.1	1.0	2.3
Japan	4.3	4.0	117.1	104.0	<0.1	<0.1	0.0	0.0	<0.1	<0.1	0.0	0.0
Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	19.8	41.4	0.2	0.3	1.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
March	3.3	4.4	85.3	176.6	0.0	0.0	0.0	0.0	<0.1	<0.1	0.4	1.2
Japan	3.3	4.4	85.3	176.6	0.0	0.0	0.0	0.0	<0.1	<0.1	0.0	0.0
Korea	<0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0
Joint-Venture	40.3	84.4	0.2	1.1	0.9	1.0	0.0	0.0	<0.1	<0.1	0.0	0.0
April	1.6	0.9	134.5	85.1	<0.1	<0.1	0.0	0.0	0.1	<0.1	1.8	0.6
Japan	1.6	0.9	134.5	85.1	<0.1	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0
Korea	0.1	0.2	12.4	0.2	0.0	0.0	0.0	0.0	<0.1	<0.1	<0.1	1.6
Joint-Venture	10.3	2.5	0.2	2.5	0.1	<0.1	0.0	0.0	<0.1	<0.1	0.0	<0.1
May	0.7	1.1	77.5	81.2	<0.1	<0.1	0.0	0.0	0.2	<0.1	0.4	1.3
Japan	0.7	1.1	77.5	81.2	<0.1	<0.1	0.0	0.0	0.2	<0.1	0.0	0.0
Korea	0.3	0.1	32.5	1.3	0.0	0.0	0.0	0.0	<0.1	<0.1	0.3	0.8
Joint-Venture	10.3	0.8	2.8	17.5	0.0	0.1	0.0	0.0	<0.1	<0.1	0.2	<0.1
June	9.3	12.6	308.1	449.3	3.4	2.7	0.4	0.5	0.4	0.5	11.9	1.7
Japan	9.3	12.6	308.1	449.3	3.4	2.7	0.4	0.5	0.4	0.5	0.0	0.0
Korea	16.6	2.5	92.9	20.3	1.3	0.1	3.6	<0.1	0.0	<0.1	5.3	0.1
Joint-Venture	0.0	0.5	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
July	9.7	10.5	175.7	248.3	2.1	2.9	0.2	0.1	0.2	0.1	0.8	0.8
Japan	9.7	10.5	175.7	248.3	2.1	2.9	0.2	0.1	0.2	0.1	0.0	0.0
Korea	5.0	7.5	107.1	29.8	0.1	0.8	0.0	0.0	0.0	0.0	0.2	0.2
Joint-Venture	0.0	1.1	0.0	9.7	0.0	1.0	0.0	<0.1	0.0	<0.1	0.0	0.2
August	9.3	10.1	162.7	190.6	1.0	1.5	0.4	0.2	0.4	0.2	1.6	1.5
Japan	9.3	10.1	162.7	190.6	1.0	1.5	0.4	0.2	0.4	0.2	0.0	0.0
Korea	3.6	6.7	36.5	28.3	0.2	2.0	<0.1	<0.1	<0.1	<0.1	<0.1	0.4
Joint-Venture	0.0	1.7	0.0	64.2	0.0	1.3	0.0	2.7	0.0	0.0	0.0	19.2
Total through August	41.3	45.1	1,084.2	1,391.9	6.6	7.1	1.3	0.9	1.3	0.9	18.0	9.9
Japan	41.3	45.1	1,084.2	1,391.9	6.6	7.1	1.3	0.9	1.3	0.9	18.0	9.9
Korea	25.6	17.0	282.1	79.9	1.6	2.9	3.6	<0.1	3.6	<0.1	5.8	3.1
Foreign Total	66.9	62.1	1,366.3	1,471.8	8.2	10.0	4.9	0.9	4.9	0.9	23.8	13.0
Joint-Venture	74.5	136.1	3.6	111.0	2.8	5.7	<0.1	2.8	<0.1	2.8	0.2	19.4

Table 9.--Monthly prohibited species summary (by number), W-O-C coast.

Month/Nation	Groundfish catch (1000's t)		Numbers (1,000's)			
			Halibut		Salmon	
January	1982	1983	1982	1983	1982	1983
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
February						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
March						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
April						
Joint-venture	4.2	3.5	0.0	0.0	0.3	0.7
May						
Joint-venture	8.2	13.4	<0.1	0.0	6.2	0.5
June						
Joint-venture	25.1	18.1	<0.1	<0.1	2.5	0.3
July						
Joint-venture	13.1	16.9	<0.1	<0.1	1.1	1.4
August						
Joint-venture	10.0	16.8	<0.1	<0.1	0.5	1.4
Total						
Joint-venture	60.6	68.7	<0.1	<0.1	10.6	4.3

Table 10.--Monthly prohibited species (by weight), W-O-C coast.

Month/Nation	Groundfish catch (1000's t)		Weight (tons)			
			Halibut		Salmon	
January	1982	1983	1982	1983	1982	1983
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
February						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
March						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
April						
Joint-venture	4.2	3.5	0.0	0.0	0.8	1.1
May						
Joint-venture	8.2	13.4	<0.1	0.0	13.5	1.3
June						
Joint-venture	25.1	18.1	0.1	0.2	8.9	0.9
July						
Joint-venture	13.1	16.9	0.1	0.2	5.0	3.0
August						
Joint-venture	10.0	16.8	<0.1	<0.1	2.0	2.9
Total						
Joint-venture	60.6	68.7	0.3	0.4	30.2	9.2

memorandum

Resource Ecology and Fisheries Management

DATE: September 23, 1983

REPLY TO
ATTN OF: F/NWC2 - Russ Nelson

SUBJECT: Report of observer activities through August, 1983

TO: F/NWC2 - Rich Marasco

The attached tables summarize observer coverage (Tables 1-4) and estimated catches of prohibited species (Tables 5-10) in the foreign and joint-venture fisheries in the Alaska and Northwest regions for 1983 through August. Also included in the tables are 1982 estimated monthly incidental catches of prohibited species (by number and weight) for comparison with the 1983 fishery. All of the 1983 data should be considered preliminary.

OBSERVER COVERAGE

In the Alaska region, observer coverage for the period January through August increased from 25% to 40% in the Bering Sea and from 27% to 49% in the Gulf of Alaska (Table 1). During August, 1983 observer coverage of the Bering Sea and Gulf of Alaska fisheries was 63% and 52%, respectively. Observer coverage in the Washington, Oregon, California (WOC) fishery was 85% through August, 1983. The comparative level of coverage in 1982 was 77%. Tables 2-4 give the more detailed information on foreign effort and observer coverage by vessel class for each region.

ALASKA REGION GROUND FISH AND INCIDENTAL CATCHES

Bering Sea (Tables 5,6)

The foreign groundfish catch in the Bering Sea region of roughly 199,000 t during August brought the total foreign catch for the year in that region to approximately 734,000 t. The total foreign catch through August represents an 8.5% decrease over that taken during the first eight months of 1982.

The total incidental catches (in numbers) of halibut, king crab, and Tanner crab by the foreign fishery in the Bering Sea in 1983 continued to exceed those taken during the same period in 1982. The 1983 catches of halibut, king crab, and Tanner crab were greater than those of 1982 by 13.5%, 39.5%, and 8.4%, respectively. Salmon is the only prohibited species whose 1983 catch is lower than that of 1982 (a 28% decrease). Though the halibut catch in numbers in 1983 has increased, the incidental catch in weight of halibut has actually decreased about 3.5%.

The joint-venture fishery in the Bering Sea landed about 49,100 t of groundfish during August. The August catch brought the joint-venture total for the year to 199,300 t as compared to 95,900 t in 1982. The incidental catch of Tanner crab continued to be a problem in the joint-venture fishery in August. It was estimated that about 100,000 Tanner crab were taken during the month resulting in a total catch for the year of roughly 429,000 crab. This compares to an estimated catch of 52,300 crab during the same period of 1982. The incidental catches of halibut and king crab during August were lower than

than those taken in August, 1982. The low catch of halibut in August resulted in a 24% decrease in the incidental catch (in numbers) of halibut through the first eight months of 1983 as compared to 1982. With respect to king crab, the total catch through August represents a three-fold increase over 1982, even though the August catch decreased. The primary surprise during August is the estimated catch of 23,600 salmon by the joint-venture fishery. The August catch brings the total for the year to roughly 26,500 fish as compared to 1,800 fish in 1982. The salmon catch during August was taken in the pollock joint-venture with essentially all the fish identified as chum salmon.

Gulf of Alaska (Tables 7-8)

The foreign fishery caught 16,800 t of groundfish in the Gulf of Alaska in August. The total catch for the year of 62,100 represents a 7% decrease over 1982. The incidental catches of king and Tanner crab by the foreign fishery remain lower than those taken during the first eight months of 1982. In contrast, there has been a 23% increase (in numbers) in the incidental catch of halibut and a 39% increase in the incidental catch of salmon. The increase in halibut is primarily due to increased incidental catches in the longline fishery, whereas, the increased salmon catch has occurred in the trawl fishery.

The joint-venture fishery continued to operate in the Gulf of Alaska during August, landing 1,700 t of groundfish. The total groundfish catch of 136,100 t for 1983 represents an 83% increase over 1982. The joint-venture operations fishing during August experienced high incidental catches of halibut (17,200 fish or 64.2 t) and Tanner crab (33,500 crab or 19.2 t). As a result, the total incidental catch of halibut in 1983 of 24,000 fish or 111 t is considerably greater than the 2,400 fish or 3.6 t taken through August, 1982. The total incidental catch of Tanner crab of 33,800 crab is considerably greater than the 400 crab taken in 1982. Joint-venture operations were conducted in the Kodiak and Shumagin areas during August and targeted on a variety of bottomfish.

Washington-Oregon-California Groundfish and Incidental Catches (Tables 9-10)

The joint-venture fishery landed 16,800 t of groundfish (primarily Pacific whiting) in August, which brings the total catch for the year to 68,700 t. This represents a 13% increase over 1982. Approximately 1,400 salmon were caught as incidental catch in the Pacific whiting fishery in August. The resulting total incidental catch of salmon for the year is 4,300 fish, a 59% decrease over that of 1982.

Table 1.--Observer coverage of foreign and joint-venture processing vessels for year to date and the most recent month of fishing, 1983. The same data for 1982 are added at the bottom of the table for comparison.

Region	Foreign days	Observer days	Percent coverage	Foreign vessels	Observer vessels	Percent sampled
<u>1983 Data</u>						
Year to date --through August 1983						
Bering Sea	20,331	8,072	39.7	202	186	92.1
Gulf of Alaska	4,759	2,314	48.6	91	77	84.6
Wash.-Ore.-Calif.	1,393	1,185	85.1	15	15	100.0
Total	26,483	11,571	43.7	308	278	90.3
Recent month -- August 1983						
Bering Sea	2,280	1,438	63.1	143	75	52.4
Gulf of Alaska	855	447	52.3	51	32	62.7
Wash.-Ore.-Calif.	352	328	93.2	11	11	100.0
Total	3,487	2,213	63.5	205	118	57.6
<u>1982 Data</u>						
Year through August 1982						
Bering Sea	21,626	5,436	25.1	208	178	85.6
Gulf of Alaska	4,726	1,295	27.4	94	69	73.4
Wash.-Ore.-Calif.	1,639	1,264	77.1	19	19	100.0
Total	27,991	7,995	28.6	321	266	82.9
August 1982						
Bering Sea	2,950	1,236	41.9	148	86	58.1
Gulf of Alaska	661	336	50.8	41	25	61.0
Wash.-Ore.-Calif.	306	226	73.9	14	13	92.9
Total	3,917	1,798	45.9	203	124	61.1

Table 2.--Summary of observer coverage of (A) foreign and (B) joint-venture fisheries in the Bering Sea/Aleutian region through August 1983.

Nation - Vessel	Totals for Year						Recent Month - August 1983					
	Foreign effort (days)	Observer effort (days)	Per- cent cover- age (%)	For- eign Ves- sels (no.)	Obser- ver ves- sels (no.)	Per- cent sam- pled (%)	Foreign effort (days)	Observer effort (days)	Per- cent cover- age (%)	For- eign Ves- sels (no.)	Obser- ver ves- sels (no.)	Per- cent sam- pled (%)
A. Foreign directed fishery												
Japan-												
Surimi mothership	480	382	79.6	5	5	100.0	175	168	96.0	5	5	100.0
Freezer mothership	71	71	100.0	1	1	100.0	35	35	100.0	1	1	100.0
Small trawler	13,386	4,120	30.8	102	96	94.1	704	360	51.1	69	18	26.1
Larger freezer trawler	272	205	75.4	3	3	100.0	70	58	82.9	2	2	100.0
Large surimi trawler	1,348	953	70.7	15	14	93.3	382	328	85.9	12	12	100.0
Longliner	730	390	53.4	22	20	90.9	115	89	77.4	13	10	76.9
S. Korea -												
Small trawler	247	27	10.9	7	3	42.9	17	0	0.0	3	0	0.0
Large freezer trawler	1,829	778	42.5	23	23	100.0	336	176	52.4	21	16	76.2
Longliner	76	67	88.2	1	1	100.0	12	10	83.3	1	1	100.0
W. Germany -												
Large freezer trawler	146	102	69.9	1	1	100.0	35	31	88.6	1	1	100.0
Total	18,585	7,095	38.2	180	167	92.8	1,881	1,255	66.7	128	66	51.6
B. Joint venture fishery												
US-USSR JV mothership	1,013	637	62.9	8	8	100.0	165	93	56.4	6	5	83.3
US-Korea JV mothership	216	65	30.1	6	4	66.7	56	0	0.0	3	0	0.0
US-Japan JV mothership	517	275	53.2	8	7	87.5	178	90	50.6	6	4	66.7
Total	1,746	977	56.0	22	19	86.4	399	183	45.9	15	9	60.0
GRAND TOTAL	20,331	8,072	39.7	202	186	92.1	2,280	1,438	63.1	143	75	52.4

Table 3.--Summary of observer coverage of (A) foreign and (B) joint-venture fisheries in the Gulf of Alaska region through August 1983.

Nation - Vessel class	Totals for Year						Recent Month - August 1983					
	Foreign effort (days)	Observer effort (days)	Percent coverage (%)	Foreign Vessels (no.)	Observer vessels (no.)	Percent sampled (%)	Foreign effort (days)	Observer effort (days)	Percent coverage (%)	Foreign Vessels (no.)	Observer vessels (no.)	Percent sampled (%)
A. Foreign directed fishery												
Japan -												
Small trawler	1,116	613	54.9	14	13	92.9	388	208	53.6	14	10	71.4
Large freezer trawler	152	97	63.8	2	2	100.0	105	87	82.9	3	3	100.0
Large surimi trawler	366	239	65.3	5	5	100.0	34	33	97.1	1	1	100.0
Longliner	1,786	461	25.8	22	21	95.5	124	12	9.7	8	4	50.0
S. Korea -												
Small trawler	35	11	31.4	3	2	66.7	17	11	64.7	2	2	100.0
Large freezer trawler	229	78	34.1	21	12	57.1	88	32	36.4	19	8	42.1
Longliner	64	35	54.7	1	1	100.0	16	10	62.5	1	1	100.0
Total	3,748	1,534	40.9	68	56	82.4	772	393	50.9	48	29	60.4
B. Joint venture fishery												
US-Korea JV mothership	498	349	70.1	14	12	85.7	13	1	7.7	1	1	100.0
US-Japan JV mothership	422	360	85.3	7	7	100.0	0	0	-	0	0	-
US-Taiwan JV mothership	91	71	78.0	2	2	100.0	70	53	75.7	2	2	100.0
Total	1,011	780	77.2	23	21	91.3	83	54	65.1	3	3	100.0
GRAND TOTAL	4,759	2,314	48.6	91	77	84.6	855	447	52.3	51	32	62.7

Table 4.--Summary of observer coverage of joint-venture fisheries in the Washington-Oregon California region through August 1983.

Nation - Vessel class	Totals for Year						Recent Month - August 1983					
	Foreign effort (days)	Observer effort (days)	Per- cent cover- age (%)	For- eign Ves- sels (no.)	Obser- ver ves- sels (no.)	Per- cent sam- pled (%)	Foreign effort (days)	Observer effort (days)	Per- cent cover- age (%)	For- eign Ves- sels (no.)	Obser- ver ves- sels (no.)	Per- cent sam- pled (%)
US-USSR JV mothership	1,393	1,185	85.1	15	15	100.0	352	328	93.2	11	11	100.0
Total	1,393	1,185	85.1	15	15	100.0	352	328	93.2	11	11	100.0

Table 5.--Monthly prohibited species summary (by number) in the Bering Sea.

Month/Nation	Groundfish catch (1,000's t)		Numbers (1000's)							
	1982	1983	Halibut		Salmon		King Crab		Tanner Crab	
			1982	1983	1982	1983	1982	1983	1982	1983
January										
Japan	21.2	14.5	38.0	43.2	1.1	0.1	13.9	7.9	334.8	28.2
Korea	15.7	1.0	16.9	0.2	4.1	0.0	<0.1	<0.1	6.1	0.1
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Germany	0.6	2.0	0.1	0.0	<0.1	<0.1	0.0	<0.1	0.1	0.0
Joint-Venture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
February										
Japan	44.1	42.0	21.0	44.4	1.6	1.9	15.4	15.4	109.8	172.2
Korea	19.7	14.8	0.1	3.1	<0.1	0.1	0.0	2.6	0.0	23.9
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Germany	0.0	1.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0
Joint-Venture	<0.1	0.5	0.2	5.2	<0.1	<0.1	0.0	0.0	<0.1	8.4
March										
Japan	46.5	56.2	31.3	34.3	1.3	1.6	22.3	42.0	147.4	250.0
Korea	10.7	3.8	3.7	0.2	0.9	0.0	<0.1	0.6	1.2	2.9
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	2.0	3.6	22.9	7.1	0.3	<0.1	0.0	4.6	0.8	34.4
April										
Japan	19.7	29.5	3.0	20.9	0.8	0.3	12.3	16.6	49.2	100.7
Korea	18.3	19.1	74.1	45.7	0.4	0.1	2.8	2.5	28.9	189.3
Taiwan	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.1	0.0
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	7.8	17.7	19.2	12.4	0.7	0.1	10.5	24.8	3.2	41.2
May										
Japan	24.1	19.5	7.9	12.8	0.1	<0.1	12.6	20.1	62.0	137.7
Korea	17.6	22.6	58.0	49.8	<0.1	<0.1	9.0	62.3	162.6	74.4
Taiwan	0.7	0.0	1.5	0.0	<0.1	0.0	<0.1	0.0	1.9	0.0
West Germany	0.8	0.5	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0
Joint-Venture	13.2	22.4	13.5	20.7	0.2	0.1	37.2	56.8	6.2	50.4
June										
Japan	99.8	123.1	7.7	22.2	0.2	0.1	39.5	46.7	114.3	176.8
Korea	5.9	29.5	3.4	15.5	<0.1	<0.1	0.4	25.5	9.5	91.7
Taiwan	1.7	0.0	0.5	0.0	<0.1	0.0	0.5	0.0	46.3	0.0
West Germany	2.1	3.0	0.0	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0
Joint-Venture	36.6	53.1	19.9	60.3	0.2	0.7	29.4	168.6	2.1	92.6
July										
Japan	137.8	132.7	13.7	26.6	0.2	0.9	13.7	9.1	53.8	52.5
Korea	13.9	17.1	2.8	3.7	<0.1	0.0	9.2	18.5	12.5	13.9
Taiwan	0.4	0.0	0.2	0.0	0.0	0.0	<0.1	0.0	12.8	0.0
West Germany	1.9	2.7	0.0	0.0	<0.1	<0.1	0.0	0.0	0.0	0.0
Joint-Venture	21.1	52.9	84.8	95.7	0.1	1.9	47.1	241.3	27.1	101.3
August										
Japan	153.1	170.1	5.6	8.6	0.6	3.0	41.1	22.4	154.1	97.7
Korea	17.1	26.2	4.0	3.1	<0.1	0.1	21.2	6.9	10.1	21.2
Taiwan	0.3	0.0	0.1	0.0	0.0	0.0	0.6	0.0	3.9	0.0
West Germany	2.3	3.0	0.0	<0.1	<0.1	<0.1	<0.1	0.0	0.0	0.0
Joint-Venture	15.2	49.1	220.5	89.6	0.3	23.6	49.0	28.5	12.9	100.5
Total through August										
Japan	546.3	587.6	128.2	212.9	5.9	7.8	170.8	180.2	1,025.4	1,015.8
Korea	118.8	134.1	163.0	121.3	5.4	0.3	42.6	119.0	230.9	417.4
Taiwan	3.4	0.0	3.2	0.0	<0.1	0.0	1.1	0.0	66.0	0.0
West Germany	7.7	12.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.0
Foreign Total	676.2	733.9	294.5	334.2	11.3	8.1	214.5	299.2	1,322.4	1,433.2
Joint-Venture	95.9	199.3	381.0	291.0	1.8	26.5	173.2	524.6	52.3	428.8

Table 6.--Monthly prohibited species summary (by weight) in the Bering Sea.

Month/Nation	Groundfish catch						Weight (tons)					
	(1,000's t)		Halibut		Salmon		King Crab		Tanner Crab			
	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983	1982	1983
January												
Japan	21.2	14.5	154.0	63.0	4.9	0.5	11.2	9.4	55.8	6.4		
Korea	15.7	1.0	99.0	0.8	16.5	0.0	<0.1	0.1	1.9	<0.1		
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
West Germany	0.6	2.0	0.3	0.0	<0.1	<0.1	0.0	<0.1	<0.1	0.0		
Joint-Venture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
February												
Japan	44.1	42.0	128.5	125.7	7.3	9.2	19.0	12.3	22.3	23.9		
Korea	19.7	14.8	0.2	18.7	0.1	0.3	0.0	2.6	0.0	2.7		
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
West Germany	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Joint-Venture	<0.1	0.5	0.3	5.6	<0.1	<0.1	0.0	0.0	<0.1	0.8		
March												
Japan	46.5	56.2	127.8	135.6	4.9	7.2	27.5	28.2	30.1	49.1		
Korea	10.7	3.8	21.3	1.1	3.6	0.0	<0.1	0.5	0.4	0.8		
Taiwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Joint-Venture	2.0	3.6	28.1	7.2	1.5	<0.1	0.0	4.5	0.0	7.5		
April												
Japan	19.7	29.5	19.4	80.0	2.4	1.8	10.7	13.4	5.9	17.4		
Korea	18.3	19.1	162.8	114.5	1.8	0.4	3.0	3.1	8.0	37.6		
Taiwan	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0		
West Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Joint-Venture	7.8	17.7	26.2	17.2	2.4	0.8	10.4	22.5	1.3	9.6		
May												
Japan	24.1	19.5	27.1	49.2	0.6	0.1	8.1	16.6	9.7	23.7		
Korea	17.6	22.6	63.4	96.0	0.1	<0.1	11.7	49.7	26.4	14.8		
Taiwan	0.7	0.0	0.9	0.0	0.0	0.0	<0.1	0.0	0.3	0.0		
West Germany	0.8	0.5	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0		
Joint-Venture	13.2	22.4	27.4	37.6	0.7	0.3	17.2	37.4	2.2	15.3		
June												
Japan	99.8	123.1	26.9	83.4	0.3	0.3	19.9	38.2	21.0	29.3		
Korea	5.9	29.5	7.9	53.5	<0.1	0.1	0.4	22.3	1.5	19.9		
Taiwan	1.7	0.0	2.0	0.0	<0.1	0.0	0.2	0.0	13.2	0.0		
West Germany	2.1	3.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	0.0		
Joint-Venture	36.6	53.1	40.8	82.5	0.6	2.7	16.7	72.4	0.9	40.7		
July												
Japan	137.8	132.7	53.1	60.3	0.4	2.0	12.4	10.1	10.5	12.0		
Korea	13.9	17.1	13.8	10.3	<0.1	0.0	7.4	16.5	2.3	3.6		
Taiwan	0.4	0.0	1.2	0.0	0.0	0.0	0.1	0.0	4.5	0.0		
West Germany	1.9	2.7	0.0	0.0	0.0	0.1	<0.1	0.0	0.0	0.0		
Joint-Venture	21.1	52.9	132.9	141.5	0.3	4.4	16.4	118.5	4.7	29.4		
August												
Japan	153.1	170.1	19.2	31.8	1.7	6.7	37.6	17.8	29.4	18.4		
Korea	17.1	26.2	36.2	9.3	0.1	0.2	21.7	6.0	2.0	3.0		
Taiwan	0.3	0.0	2.1	0.0	0.0	0.0	0.6	0.0	1.0	0.0		
West Germany	2.3	3.0	0.0	<0.1	0.1	<0.1	<0.1	0.0	0.0	0.0		
Joint-Venture	15.2	49.1	264.7	149.8	0.8	50.8	23.3	13.1	4.6	27.3		
Total through August												
Japan	546.3	587.6	556.0	628.7	22.5	27.7	146.4	146.0	184.7	180.2		
Korea	118.8	134.1	404.6	304.2	22.2	1.0	44.2	100.8	42.5	82.5		
Taiwan	3.4	0.0	6.5	0.0	<0.1	0.0	0.9	0.0	19.2	0.0		
West Germany	7.7	12.2	0.3	<0.1	0.2	0.1	<0.1	<0.1	<0.1	0.0		
Foreign Total	676.2	733.9	967.4	932.9	44.9	28.8	191.5	246.8	246.4	262.7		
Joint-Venture	95.9	199.3	520.4	441.4	6.3	59.0	84.0	268.4	14.0	110.5		

Table 7.--Monthly prohibited species summary (by number) in the Gulf of Alaska.

Month/Nation	Groundfish catch (1,000's t)		Numbers (1,000's)							
	1982	1983	Halibut		Salmon		King Crab		Tanner Crab	
			1982	1983	1982	1983	1982	1983	1982	1983
January										
Japan	3.1	1.5	12.0	20.0	<0.1	<0.1	0.0	<0.1	0.1	0.6
Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	3.9	3.7	<0.1	<0.1	0.2	0.4	0.0	0.0	0.0	0.0
February										
Japan	4.3	4.0	28.1	38.8	<0.1	0.0	<0.1	<0.1	0.8	3.2
Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Joint-Venture	19.8	41.4	<0.1	0.1	0.9	1.0	0.0	0.0	0.0	0.0
March										
Japan	3.3	4.4	32.5	50.7	0.0	0.0	<0.1	<0.1	0.6	1.4
Korea	<0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	<0.1	0.0
Joint-Venture	40.3	84.4	<0.1	0.1	0.3	0.4	<0.1	0.0	0.0	0.0
April										
Japan	1.6	0.9	38.7	22.9	<0.1	0.0	<0.1	<0.1	2.2	0.8
Korea	0.1	0.2	0.2	0.1	0.0	0.0	<0.1	<0.1	0.1	1.8
Joint-Venture	10.3	2.5	<0.1	0.6	0.1	<0.1	0.0	<0.1	0.0	<0.1
May										
Japan	0.7	1.1	17.0	25.7	<0.1	0.0	0.1	<0.1	0.6	1.8
Korea	0.3	0.1	3.1	0.1	0.0	0.0	<0.1	<0.1	0.4	0.9
Joint-Venture	10.2	0.8	2.3	2.1	0.0	<0.1	0.0	<0.1	0.4	<0.1
June										
Japan	9.3	12.6	65.6	81.9	1.1	0.8	0.5	0.6	17.3	4.2
Korea	16.6	2.5	7.5	3.3	0.3	<0.1	1.0	<0.1	8.0	0.1
Joint-Venture	0.0	0.5	0.0	1.5	0.0	0.0	0.0	<0.1	0.0	0.0
July										
Japan	9.7	10.5	12.6	37.8	0.6	1.0	0.1	0.1	3.2	1.2
Korea	5.0	7.5	34.7	6.8	<0.1	0.3	<0.1	0.0	0.4	0.3
Joint-Venture	0.0	1.1	0.0	2.4	0.0	0.2	0.0	<0.1	0.0	0.3
August										
Japan	9.3	10.1	14.8	42.7	0.2	0.4	0.2	0.1	4.0	2.2
Korea	3.6	6.7	6.7	5.8	<0.1	0.7	<0.1	<0.1	0.1	0.5
Joint-Venture	0.0	1.7	0.0	17.2	0.0	0.3	0.0	1.1	0.0	33.5
Total through August										
Japan	41.3	45.1	221.3	320.5	1.9	2.2	1.0	0.9	28.8	15.4
Korea	25.6	17.0	52.4	16.1	0.4	1.0	1.1	<0.1	9.0	3.6
Foreign Total	66.9	62.1	273.7	336.6	2.3	3.2	2.1	0.9	37.8	19.0
Joint-Venture	74.5	136.1	2.4	24.0	1.5	2.3	<0.1	1.1	0.4	33.8

Table 8.--Monthly prohibited species summary (by weight) in the Gulf of Alaska.

Month/Nation	Groundfish catch (1,000's t)		Weight (tons)								
	1982	1983	Halibut		Salmon		King crab	Tanner crab	1982	1983	
January	Japan	3.1	1.5	23.3	56.8	0.1	<0.1	0.0	<0.1	0.1	0.5
	Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Joint-Venture	3.9	3.7	0.2	0.1	0.3	0.7	0.0	0.0	0.0	0.0
February	Japan	4.3	4.0	117.1	104.0	<0.1	0.0	<0.1	<0.1	1.0	2.3
	Korea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Joint-Venture	19.8	41.4	0.2	0.3	1.5	1.6	0.0	0.0	0.0	0.0
March	Japan	3.3	4.4	85.3	176.6	0.0	0.0	<0.1	<0.1	0.4	1.2
	Korea	<0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	<0.1	0.0
	Joint-Venture	40.3	84.4	0.2	1.1	0.9	1.0	<0.1	0.0	0.0	0.0
April	Japan	1.6	0.9	134.5	85.1	<0.1	0.0	0.1	<0.1	1.8	0.6
	Korea	0.1	0.2	12.4	0.2	0.0	0.0	<0.1	<0.1	<0.1	1.6
	Joint-Venture	10.3	2.5	0.2	2.5	0.1	<0.1	0.0	<0.1	0.0	<0.1
May	Japan	0.7	1.1	77.5	81.2	<0.1	0.0	0.2	<0.1	0.4	1.3
	Korea	0.3	0.1	32.5	1.3	0.0	0.0	<0.1	<0.1	0.3	0.8
	Joint-Venture	10.3	0.8	2.8	17.5	0.0	0.1	0.0	<0.1	0.2	<0.1
June	Japan	9.3	12.6	308.1	449.3	3.4	2.7	0.4	0.5	11.9	1.7
	Korea	16.6	2.5	92.9	20.3	1.3	0.1	3.6	<0.1	5.3	0.1
	Joint-Venture	0.0	0.5	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0
July	Japan	9.7	10.5	175.7	248.3	2.1	2.9	0.2	0.1	0.8	0.8
	Korea	5.0	7.5	107.1	29.8	0.1	0.8	0.0	0.0	0.2	0.2
	Joint-Venture	0.0	1.1	0.0	9.7	0.0	1.0	0.0	<0.1	0.0	0.2
August	Japan	9.3	10.1	162.7	190.6	1.0	1.5	0.4	0.2	1.6	1.5
	Korea	3.6	6.7	36.5	28.3	0.2	2.0	<0.1	<0.1	<0.1	0.4
	Joint-Venture	0.0	1.7	0.0	64.2	0.0	1.3	0.0	2.7	0.0	19.2
Total through August											
Japan	41.3	45.1	1,084.2	1,391.9	6.6	7.1	1.3	0.9	18.0	9.9	
Korea	25.6	17.0	282.1	79.9	1.6	2.9	3.6	<0.1	5.8	3.1	
Foreign Total	66.9	62.1	1,366.3	1,471.8	8.2	10.0	4.9	0.9	23.8	13.0	
Joint-Venture	74.5	136.1	3.6	111.0	2.8	5.7	<0.1	2.8	0.2	19.4	

Table 9.--Monthly prohibited species summary (by number), W-O-C coast.

Month/Nation	Groundfish catch (1000's t)		Numbers (1,000's)			
	1982	1983	Halibut		Salmon	
	1982	1983	1982	1983	1982	1983
January						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
February						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
March						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
April						
Joint-venture	4.2	3.5	0.0	0.0	0.3	0.7
May						
Joint-venture	8.2	13.4	<0.1	0.0	6.2	0.5
June						
Joint-venture	25.1	18.1	<0.1	<0.1	2.5	0.3
July						
Joint-venture	13.1	16.9	<0.1	<0.1	1.1	1.4
August						
Joint-venture	10.0	16.8	<0.1	<0.1	0.5	1.4
Total						
Joint-venture	60.6	68.7	<0.1	<0.1	10.6	4.3

Table 10.--Monthly prohibited species (by weight), W-O-C coast.

Month/Nation	Groundfish catch (1000's t)		Weight (tons)			
			Halibut		Salmon	
	1982	1983	1982	1983	1982	1983
January						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
February						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
March						
Joint-venture	0.0	0.0	0.0	0.0	0.0	0.0
April						
Joint-venture	4.2	3.5	0.0	0.0	0.8	1.1
May						
Joint-venture	8.2	13.4	<0.1	0.0	13.5	1.3
June						
Joint-venture	25.1	18.1	0.1	0.2	8.9	0.9
July						
Joint-venture	13.1	16.9	0.1	0.2	5.0	3.0
August						
Joint-venture	10.0	16.8	<0.1	<0.1	2.0	2.9
Total						
Joint-venture	60.6	68.7	0.3	0.4	30.2	9.2