

NMFS Management 1990

- April 20: Directed hook and line fishery for sablefish closed in East Yakutat/Southeast Outside. Hook and line TAC is 5,680 mt and 100 mt was saved for bycatch in other longline fisheries (4% retainable).
- April 16: Directed hook and line fishery for sablefish closed in West Yakutat. Hook and line TAC was 4,550 mt and 100 mt was saved for bycatch in other longline fisheries (4% retainable).
- April 12: Directed fisheries for Greenland Turbot closed throughout Bering Sea and Aleutians. The TAC is 5,950 mt and 1,300 mt will be needed as bycatch (10% allowed in sablefish and all rockfish fisheries and 1% in other fisheries).
- April 12: Final rule implementing directed fishing definitions in GOA and BSAI. This is the regulatory amendment initiated at the April 1989 Council meeting.
- April 5: Emergency interim rule listing Steller sea lions as threatened under the Endangered Species Act. Expires December 31, 1990.
- April 1: Western and Central GOA reopens for pollock. Quota is 15,494 mt (17,500 mt minus 2,006 mt overharvest from first quarter). Shelikof will be managed as part of W/C GOA.
- March 27: Emergency interim rule effective through April 1, 1991, implementing halibut directed fisheries regulations. (This rule does not extend area 4E into Bristol Bay.)
- March 19: Secondary halibut PSC reached for DAP flatfish fisheries, closing entire BSAI.
- March 15: Area 516 closed to trawling from March 15 to June 15. This is the seasonal westward extension of the 160-162 W closed area to 163 W to protect red king crab.
- March 14: Primary halibut quota (467 mt) for DAP flatfish fishery closes Zones 1 and 2H.
- March 5: Secondary halibut quota for JVP flatfish fishery closes entire BSA.
- March 1: Excess bairdi PSC from JVP flatfish fishery reapportioned to DAP bringing the DAP PSC for flatfish to 529,600 crabs and allowing it to resume March 1.
- February 28: State waters of Shelikof closed to pollock directed fishery through March 31. NMFS closes Shelikof Strait District through March 31 because first quarter apportionment of 6,250 mt pollock attained.
- February 27: Zone 1 closed to DAP flatfish fisheries because bairdi PSC of 339,600 crabs attained. Zone 2H closed to JVP flatfish fisheries because primary halibut quota of 660 mt attained.

- February 16: Emergency rule banning roe stripping implemented Alaska-wide. Specifies pollock product recovery rates of 25% for fillet and minced, 22% for surimi, 17% for meal, 55% for headed and gutted, and 7% for roe.
- February 15: Emergency rule takes effect implementing quarterly allocation of halibut PSC in the GOA, and exempt the Gulf of Alaska groundfish pot fishery from the halibut PSC restrictions. Trawl gear is 30/30/40% and fixed gear is 20/60/20% for the first and second quarters and remaining half year.
- February 7: Final rule for observer plan published.
- January 26: Trawl allocations of sablefish in the GOA specified as bycatch only.
- January 26: Initial groundfish specifications effective for GOA including quarterly apportionments of pollock.
- January 26: Directed pollock fishery closed in W/C GOA because first quarter apportionment of 11,250 mt attained.
- January 25: JVP flatfish fisheries closed in Zone 1 of BSA because of red king crab PSC.



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**SUMMARY OF FOREIGN FISHING VESSEL
TRANSSHIPMENT DATA FOR THE CALENDAR YEAR OF 1989**

Prepared by
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National Marine Fisheries Service
Alaska Region

Juneau, Alaska
April 1990



INTRODUCTION

This report summarizes groundfish transshipment effort reported by foreign fishing vessels operating within the U.S. EEZ off Alaska. The data contained in the herein has been compiled from reports required by the MFCMA. The data covers the period from January 1, 1989, through December 31, 1989, during which a total of 697 foreign transshipments were reported. This represents a 79 percent decrease in the number of foreign transshipments from 1988. Total tonnage transshipped decreased by 46 percent from 1988 (554,653 vs. 299,207).

This data base does not include transshipment data from the U.S. catcher/processor fleet. Further, this data base generally does not include cargo data on products loaded onto foreign carriers within the confines of U.S. ports or internal waters of the State of Alaska.

DESCRIPTION OF REQUIRED REPORTS

Foreign fishing vessels operating within the U.S. EEZ are required to submit a variety of reports concerning cargo transshipments and cargo on board. The reports required are as follows:

BEGIN PRODUCT ON BOARD - All foreign vessels operating within the U.S. EEZ are required to submit a BEGIN message 24 hours prior to commencing activities. In conjunction with the BEGIN message, vessels must report all PRODUCT ON BOARD the vessel at the time, including ships stores. The message must specify the species type, product code and metric tonnage.

Products identified for crew consumption have not been entered into the data base and, as a matter of routine, rarely exceed .1 metric ton per species. Products on board originate from a number of sources and the source is only occasionally identified in the message. Sources noted include, the donut hole, Soviet EEZ, WOC fishery, and product loaded at U.S. ports. BEGIN reports may also include products originating from the Alaska EEZ.

Products from U.S. ports enter the data base when a foreign carrier picks up U.S. product in port then submits a BEGIN message to conduct support activities with other foreign vessels within the EEZ. Products originating in the Alaska EEZ enter the BEGIN PRODUCT ON BOARD data base when a fishing vessel that has been fishing (JV operations) in the EEZ, departs to international waters and then returns to the EEZ with the original U.S. fish on board.

Some double counting of BEGIN PRODUCT ON BOARD does occur. This happens when a vessel enters the EEZ with product on board (submitting PRODUCT ON BOARD message), departs to work outside the EEZ and then returns to the EEZ with the same product on board (submitting a second PRODUCT ON BOARD message). There is no way under the current message structure to determine the amount of double counting or to determine the exact origin of BEGIN PRODUCT ON BOARD.

OFFLOADED TO - Each foreign vessel that off-loads cargo to another vessel in the EEZ must submit an OFFLOADED TO message. This message must contain the name and identifiers of the other vessel, date, time, location, and metric tonnage of each species and product type. The message is required regardless of product source and does not specify product origin. (A change in regulations for the calendar year 1990 will require the identification or product source to be included in the message. full implementation is expected by March 31, 1990.)

All product with the exception of fish oil and meal are identified by allocated species or species groups. Meal and oil are generally produced from offal, undersize and underutilized species. There is no practical after-the-fact method of determining the species composition of meal and oil. Foreign fishing regulations do not require species identification of meal and oil products reported in transfer data messages. It is presumed that catch composition of meal and oil is generally equivalent to the composition of the retained frozen fish.

RECEIVED FROM - Each foreign vessel that receives cargo from another vessel in the EEZ must submit a RECEIVED FROM message. This message contains information identical to the OFFLOADED TO message and is used as a verification report for the OFFLOADED TO data base. If the two data bases do not match, the error is identified and corrected.

DATA LIMITATIONS

The data base does not and cannot make any adjustments for BEGIN PRODUCT ON BOARD messages that may have been inadvertently omitted from the data base. It is presumed however that omissions of such messages (when required) is less than 5 percent of the data base. The data base also cannot make any adjustments for product on board vessels at the beginning of the new year. Further the data base cannot make adequate adjustment for products originating in U.S. ports.

It is the position of the Office of Enforcement that verification of reported catch can only be accomplished by auditing the complete record of individual vessels. Summary cargo transshipment data cannot be used to adequately verify MFCMA catch statistics and attempts to do so may lead to erroneous and misleading conclusions.

SUMMARY BY NATION

The following tables summarize transshipment data by nation (SUM-1) and species (SUM-2).

TABLE: SUM-1

ALL NATIONS - SUMMARY OF 1989 TRANSFER DATA (by nation/metric tonnage)

NATION	TOTAL <u>1/</u> TRANSFERS	SUBTOTAL <u>2/</u> TRANSPORT- TRANSPORT	TOTAL <u>3/</u> BEGIN ON BOARD	SUBTOTAL <u>4/</u> ON BOARD TRANSPORTS	SUBTOTAL <u>5/</u> ON BOARD FFV
JAPAN	64,114	0	59,985	52,467	7,519
KOREA	105,227	0	49,417	2,481	46,935
USSR	34,343	45	8,561	3,312	5,246
POLAND	90,152	27,833	98,009	31,891	66,122
CHINA	5,371	0	986	0	986
TOTAL	299,207	27,878	216,958	90,151	126,808

1/ Includes all transfers regardless of origin of fish products. Figure does not include cargo that was transferred within the donut hole and transported directly to a foreign port. Donut hole transshipments as such are not contained in U.S. government data base.

2/ Subtotal of transfers from one transport vessel to another. This quantity generally presumed to be a double count of cargo (i.e., counted once when transferred from the fishing vessel to the cargo vessel, counted a second time when transferred from the cargo vessel to a second cargo vessel).

3/ Total of all BEGIN PRODUCT ON BOARD. Originates from various sources. Vast majority presumed to be donut hole reported catch.

4/ Subtotal of BEGIN PRODUCT ON BOARD reported by transport vessels. Majority presumed to be donut hole reported catch.

5/ Subtotal of BEGIN PRODUCT ON BOARD reported by fishing vessels other than transports. All presumed to be either donut hole reported catch, Soviet EEZ, or WOC fishery. The closest approximation of product originating from within the U.S. EEZ would be determined by the equation of: 1/ - 2/ - 5/ = U.S. EEZ origin.

TABLE: SUM-2

ALL NATIONS - SUMMARY OF 1989 TRANSFER DATA
(total transferred by nation/species/tonnage)

SPECIES	JAPAN	KOREA	USSR	POLAND	CHINA	TOTAL
POLLOCK	34,758	65,224	900	53,353	1,558	155,793
PACIFIC COD	3,866	6,322	8,548	156	7	18,899
PACIFIC HAKE	0	0	0	4,749	192	4,941
FLOUNDR	762	1,295	4,519	1,781	25	8,382
YELLOW-FIN TURBOTS	8,709	27,420	15,850	2,521	2,274	56,774
ROCK SOLE	4	0	0	0	0	4
SQUID	2,569	1,805	279	50	36	4,739
OTHER SPEC.	0	22	0	0	0	22
UNID.6/SPEC.	0	239	0	0	0	239
UNID.6/SPEC.	13,445	2,892	4,247	27,505	1,279	49,368

6/ Fish meal and oil are not identified by species but are normally derived from undersize fish, offal from target species or from underutilized species. Species composition of unidentified species is generally presumed to be equivalent to the species composition of the retained frozen fish.

JAPAN - Japanese vessels reported transshipping 64,114 MT of product within the EEZ during 1989. This equates to a 64 percent decrease in tonnage from 1988. Not counting transshipments between cargo vessels and product on board fishing vessels entering the EEZ, Japanese transshipment tonnage equates to 56,595 MT of product presumed to have originated from JV activities within the EEZ. Japanese

vessels reported JV catch of 264,381 MT for 1989. Primary products transshipped by the Japanese (EEZ origin) were:

<u>SPECIES</u>	<u>PRODUCT</u>	<u>CARGO MT</u>	<u>JV CATCH MT</u>
Pollock	Surimi	29,392	

total all pollock		29,468	189,181

Yellowfin sole	Steaks	6,683	
	Surimi	1,119	

total all yellowfin		8,709	44,935

Pacific cod	Head/Gut	1,958	

total all Pacific cod		3,801	13,825

Mixed Spec.	Fish Meal	10,662	n/a

Total All Species		56,595	264,381

KOREA - Korean vessels reported transshipping 105,227 MT within the EEZ during 1989. This equates to a 50 percent decrease in tonnage from 1988. Not counting transshipments between cargo vessels and product on board fishing vessels entering the EEZ, Korean transshipment tonnage equates to 58,292 MT of product presumed to have originated from JV activities within the EEZ. Korean vessels reported JV catch of 145,794 MT for 1989. Primary products transshipped by the Koreans (EEZ origin) were:

<u>SPECIES</u>	<u>PRODUCT</u>	<u>CARGO MT</u>	<u>JV CATCH MT</u>
Pollock	Whole	19,893	
	Surimi	3,299	

total all pollock		25,458	71,261

Yellowfin sole	Whole	26,708	

total all yellowfin		27,420	54,798

Pacific cod	Whole	5,166	

total all Pacific cod		6,079	9,100

Total All Species		61,466	145,793

USSR - Soviet vessels reported transshipping 34,343 MT within the EEZ during 1989. This equates to a 59 percent decrease in tonnage from 1988. Not counting transshipments between cargo vessels and product on board fishing vessels entering the EEZ, Soviet transshipment tonnage equates to

29,052 MT of product presumed to have originated from JV activities within the EEZ. Soviet vessels reported JV catch of 88,992 MT for 1989. Primary products transshipped by the Soviets (EEZ origin) were:

<u>SPECIES</u>	<u>PRODUCT</u>	<u>CARGO MT</u>	<u>JV CATCH MT</u>
Yellowfin	Head/Gut	14,273	
sole		-----	
total all Yellowfin		15,850	41,223

Pacific cod	Head/Gut	5,339	

total all Pacific cod		8,454	20,422

Flounder	Head/Gut	4,309	

total all flounder		4,514	9,565

Mixed Spec.	Fish Meal	3,216	n/a

Total All Species		29,052	88,992

POLAND - Polish vessels reported transshipping 90,152 MT within the EEZ during 1989. This equates to a 32 percent increase in tonnage over 1988. Tonnage of PRODUCT ON BOARD Polish vessels exceed total of all Polish transshipments for 1989 thereby negating any analysis of JV catch and transshipment data. This is further complicated by the Polish practice of transshipping between cargo vessels which accounted for 31 percent of all reported transshipment tonnage by Poland. Poland reported JV catch of 21,961 MT for 1989. It is believed that the vast majority of Polish JV catch and donut hole catch is transshipped within the EEZ and reflected in the transshipment reports contained in the NMFS data base.

CHINA - Chinese vessels reported transshipping 5,371 MT within the EEZ during 1989. This equates to a 59 percent decrease in tonnage from 1988. Not counting transshipments between cargo vessels and product on board fishing vessels entering the EEZ, Chinese transshipment tonnage equates to 4,385 MT of product presumed to have originated from JV activities within the EEZ. Chinese vessels reported JV catch of 8,978 MT for 1989. Primary products transshipped by the Chinese (EEZ origin) were:

<u>SPECIES</u>	<u>PRODUCT</u>	<u>CARGO MT</u>	<u>JV CATCH MT</u>
Yellowfin	Whole	2,127	
sole		-----	
total all Yellowfin		2,274	6,592

Pollock	Fillets	884	
		<u>-----</u>	
	total all pollock	1,131	1,411
		<u>-----</u>	
Total All Species		4,385	8,978

attachments

TABLE: PRODUCT CODE LISTING

PRODUCT CODE	DESCRIPTION
BSO	Squid or octopus, beak removed
CN	Canned meat
F	Fillets, with skin/two per fish
FB	Fillets, one-piece (butterfly) with skin
FBN	Fillets, one-piece (butterfly) without skin
FN	Fillets, without skin/two per fish
FO	Fish oil
G	Gutted only
GG	Gutted and gilled
H	Headed only
HDS	Heads, separate from remainder of fish
HG	Headed and gutted
HGT	Headed, gutted, and tails removed
IO	Intestinal organs separate from remainder of fish
M	Fish meal
MSO	Squid or octopus mantles
O	Other product
OS	Otoshimi - frozen minced fish product (Japan)
P	Pectoral collars separate from remainder of fish
R	Roe separate from remainder of fish
S	Flounder steaks - diagonal cut from midsection of fish
ST	Flounder pieces - punched or stamped from midsection of fish
SU	Surimi - frozen minced fish product (Japan)
SW	Skate wings
TS	Tara Shiniku - frozen minced fish product (Japan)
TSO	Squid or octopus tentacles
TU	Tucza - heads, guts, fins, tail, and portions of belly flap removed (Poland)
W	Whole fish

TABLE: JA-1

JAPAN - TOTAL TRANSFERS (1989)
(by species/product/metric tonnage)

Product /Species Type /	Pollock	Pacific Cod	Other Flounder	Rock Sole	Yellowfin Sole	Other Species	Greenland Turbot	Unidentified Species	89 TOTAL
F	170	1,323	2	0	0	0	0	80	1,495
FN	11	1	0	0	0	0	0	0	12
FO	0	0	0	0	0	0	0	327	327
H	0	0	25	209	93	0	0	68	395
HG	10	2,016	653	1,681	216	0	0	11	4,587
HGT	0	0	0	0	88	0	4	0	92
IO	0	102	0	0	0	0	0	0	102
M	0	0	0	0	0	0	0	12,813	12,813
O	0	169	5	0	71	0	0	75	320
R	918	211	0	0	0	0	0	0	1,129
S	0	9	17	153	6,683	0	0	38	6,900
ST	0	0	0	0	3	0	0	0	3
SU	33,318	0	0	0	1,119	0	0	0	34,437
SW	0	0	0	0	0	1	0	0	1
W	331	35	60	526	436	0	0	33	1,421
TOT	34,758	3,866	762	2,569	8,709	1	4	13,445	64,114
****1988 TOTALS****									
TOT	94,896	5,508	13,358	* 0	28,528	12	16	36,419	* 178,751

TABLE: JA-2

JAPAN - SUBTOTAL TRANSFERS - TRANSPORT TO TRANSPORT (1989)
(by species/product/metric tonnage)

Product /Species
Type /

NONE

(* some products and species codes do not repeat from 1988)

TABLE: JA-3

JAPAN - TOTAL BEGIN PRODUCT ON BOARD - ALL VESSELS (1989)
(by species/product/metric tonnage)

Product /Species
Type /

	Pollock	Pacific Cod	Other Flounder	Sablefish	Yellowfin Sole	Greenland Turbot	Rock Sole	Unidentified Species	89'TOTAL
F	1,891	22	0	0	0	0	0	26	1,939
FN	3,513	0	0	0	0	0	0	0	3,513
FO	0	0	0	0	0	0	0	578	578
G	1,104	0	0	0	0	0	0	0	1,104
H	56	3	0	0	0	0	0	0	59
HG	441	4,756	364	271	0	40	10	1,632	7,514
IO	0	4	0	0	0	0	0	0	4
M	0	0	0	0	0	0	0	12,644	12,644
O	438	1	0	0	0	0	0	3,090	3,529
R	2,544	1	0	0	0	0	0	0	2,545
S	223	0	70	0	0	0	0	0	293
SU	20,220	808	0	0	520	0	0	0	21,548
W	4,082	216	123	0	294	0	0	0	4,715
TOT	34,512	5,811	557	271	814	40	10	17,970	59,985

TABLE: JA-4

JAPAN - SUBTOTAL BEGIN PRODUCT ON BOARD - TRANSPORTS ONLY (1989)
(by species/product/metric tonnage)

Product /Species
Type /

	Pollock	Pacific Cod	Other Flounder	Sablefish	Yellowfin Sole	Greenland Turbot	Rock Sole	Unidentified Species	89'TOTAL
F	1,667	15	0	0	0	0	0	0	1,682
FN	3,506	0	0	0	0	0	0	0	3,506
FO	0	0	0	0	0	0	0	27	27
G	1,104	0	0	0	0	0	0	0	1,104
H	56	3	0	0	0	0	0	0	59
HG	263	4,698	352	271	0	40	9	1,632	7,265
IO	0	4	0	0	0	0	0	0	4
M	0	0	0	0	0	0	0	11,069	11,069
O	438	1	0	0	0	0	0	3,090	3,529
R	1,720	1	0	0	0	0	0	0	1,721
S	223	0	70	0	0	0	0	0	293
SU	16,294	808	0	0	520	0	0	0	17,622
W	3,953	216	123	0	294	0	0	0	4,586
TOT	29,224	5,746	545	271	814	40	9	15,818	52,467

TABLE: JA-5

JAPAN - SUBTOTAL BEGIN PRODUCT ON BOARD - FISHING VESSELS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Cod	Other Flounder	Rock Sole	Unidentified Species	89'TOTAL
F	225	7	0	0	26	258
FN	7	0	0	0	0	7
FO	0	0	0	0	550	550
HG	179	58	12	1	0	250
M	0	0	0	0	1,575	1,575
R	824	0	0	0	0	824
SU	3,926	0	0	0	0	3,926
W	129	0	0	0	0	129
TOT	5,290	65	12	1	2,151	7,519

TABLE: KS-1

KOREA - TOTAL TRANSFERS (1989)
(by species/product/metric tonnage)

Product /Species
Type /

	Pollock	Pacific Cod	Other Flounder	Yellowfin Sole	Rock Sole	Squid	Other Species	Unidentified Species	89 TOTAL
G	3,379	0	0	0	0	0	0	0	3,379
H	367	207	0	0	5	0	0	0	579
HDS	0	148	0	0	0	0	0	0	148
HG	2,394	356	0	0	3	0	0	0	2,753
HGT	0	20	0	0	0	0	0	0	20
IO	58	45	0	0	0	0	0	0	103
M	0	0	0	0	0	0	0	2,227	2,227
O	1,863	186	0	0	0	0	0	0	2,049
R	1,245	46	0	712	0	0	0	0	2,003
S	253	0	0	0	0	0	0	0	253
SU	6,512	0	0	0	0	0	0	0	6,512
W	49,153	5,314	1,295	26,708	1,805	22	239	665	85,201
TOT	65,224	6,322	1,295	27,420	1,813	22	239	2,892	105,227
****1988 TOTALS****									
TOT	114,137	18,159	8,095	54,764	* 0	0	424	9,057	204,636

(* some products and species codes do not repeat from 1988)

TABLE: KS-2

KOREA - SUBTOTAL TRANSFERS - TRANSPORT TO TRANSPORT (1989)
(by species/product/metric tonnage)

Product /Species
Type /

NONE

TABLE: KS-3

KOREA - TOTAL BEGIN PRODUCT ON BOARD - ALL VESSELS (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Cod	Other Flounder	Yellowfin Sole	Rock Sole	Squid	Unidentified Species	89'TOTAL
FO	0	0	0	0	0	0	45	45
G	2,519	0	0	0	0	0	0	2,519
H	487	0	0	0	0	0	0	487
HDS	0	14	0	0	0	0	0	14
HG	1,558	300	0	0	0	0	0	1,858
IO	33	5	0	0	0	0	0	38
M	0	0	0	0	0	0	4,657	4,657
O	1,526	6	0	0	0	0	0	1,532
R	1,317	5	0	0	0	0	0	1,322
S	0	10	0	0	0	0	0	10
SU	3,703	0	0	0	0	0	0	3,703
W	29,360	334	7	3,174	233	124	0	33,232
TOT	40,503	674	7	3,174	233	124	4,702	49,417

TABLE: KS-4

KOREA - SUBTOTAL BEGIN PRODUCT ON BOARD - TRANSPORTS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Cod	Squid	Unidentified Species	89'TOTAL
HG	0	245	0	0	245
IO	10	0	0	0	10
M	0	0	0	1,212	1,212
R	137	0	0	0	137
SU	489	0	0	0	489
W	100	186	102	0	388
TOT	736	431	102	1,212	2,481

TABLE: KS-5

KOREA - SUBTOTAL BEGIN PRODUCT ON BOARD - FISHING VESSELS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species

Type /

	Pollock	Pacific Cod	Other Flounder	Yellowfin Sole	Rock Sole	Squid	Unidentified Species	89'TOTAL
FO	0	0	0	0	0	0	45	45
G	2,519	0	0	0	0	0	0	2,519
H	487	0	0	0	0	0	0	487
HDS	0	14	0	0	0	0	0	14
HG	1,558	55	0	0	0	0	0	1,613
IO	23	5	0	0	0	0	0	28
M	0	0	0	0	0	0	3,445	3,445
O	1,526	6	0	0	0	0	0	1,532
R	1,180	5	0	0	0	0	0	1,185
S	0	10	0	0	0	0	0	10
SU	3,213	0	0	0	0	0	0	3,213
W	29,260	148	7	3,174	233	22	0	32,844
TOT	39,766	243	7	3,174	233	22	3,490	46,935

TABLE: UR-1

USSR - TOTAL TRANSFERS (1989)
(by species/product/metric tonnage)

Product /Species

Type /

	Pollock	Pacific Cod	Other Flounder	Yellowfin Sole	Rock Sole	Unidentified Species	89'TOTAL
F	115	580	0	0	6	0	701
FN	0	68	0	0	0	0	68
FO	0	0	0	0	0	75	75
G	0	0	0	582	0	0	582
H	272	57	0	0	0	0	329
HG	238	6,478	4,314	14,273	181	0	25,484
HGT	0	302	0	33	0	0	335
M	0	0	0	0	0	3,907	3,907
O	1	392	115	358	0	265	1,131
R	0	671	0	0	11	0	682
TS	0	0	8	66	0	0	74
TU	0	0	39	400	81	0	520
W	274	0	43	138	0	0	455
TOT	900	8,548	4,519	15,850	279	4,247	34,343
****1988 TOTALS****							
TOT	4,037	26,986	13,788	27,456	* 0	10,337	82,604

(* some products and species groups do not repeat from 1988)

TABLE: UR-2

USSR - SUBTOTAL TRANSFERS - TRANSPORT TO TRANSPORT (1989)
(by species/product/metric tonnage)

Product /Species

Type /

	Other Flounder	89'TOTAL
---	-----	-----
HG	45	45
---	-----	-----
TOT	45	45

TABLE: UR-3

USSR - TOTAL BEGIN PRODUCT ON BOARD - ALL VESSELS (1989)
(by species/product/metric tonnage)

Product /Species
Type /

	Pollock	Pacific Cod	Other Flounder	Squid	Pacific Hake	Unidentified Species	89'TOTAL
FO	0	0	0	0	0	20	20
H	1,538	0	0	0	0	0	1,538
HG	163	1,139	5	0	18	105	1,430
HGT	48	6	0	0	0	0	54
IO	0	0	0	0	0	15	15
M	0	0	0	0	0	961	961
O	313	0	0	435	0	3	751
S	0	0	0	0	29	0	29
SU	0	0	0	0	3,082	0	3,082
TU	0	0	0	0	33	0	33
W	647	0	0	0	1	0	648
TOT	2,709	1,145	5	435	3,163	1,104	8,561

TABLE: UR-4

USSR - SUBTOTAL BEGIN PRODUCT ON BOARD - TRANSPORTS ONLY (1989)
(by species/product/metric tonnage)

Product /Species
Type /

	Pollock	Pacific Cod	Squid	Unidentified Species	89'TOTAL
FO	0	0	0	7	7
H	1,247	0	0	0	1,247
HG	0	1,051	0	105	1,156
M	0	0	0	270	270
O	291	0	279	0	570
W	62	0	0	0	62
TOT	1,600	1,051	279	382	3,312

TABLE: UR-5

USSR - SUBTOTAL BEGIN PRODUCT ON BOARD - FISHING VESSELS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Cod	Other Flounder	Squid	Pacific Hake	Unidentified Species	89'TOTAL
FO	0	0	0	0	0	12	12
H	291	0	0	0	0	0	291
HG	162	88	5	0	18	0	273
HGT	48	6	0	0	0	0	54
IO	0	0	0	0	0	15	15
M	0	0	0	0	0	691	691
O	22	0	0	155	0	3	180
S	0	0	0	0	29	0	29
SU	0	0	0	0	3,082	0	3,082
TU	0	0	0	0	33	0	33
W	585	0	0	0	1	0	586
TOT	1,108	94	5	155	3,163	721	5,246

TABLE: PL-1

POLAND - TOTAL TRANSFERS (1989)
(by species/product/metric tonnage)

Product /Species

Type /

	Pollock	Pacific Cod	Pacific Hake	Rockfish	Other Flounder	Yellowfin Sole	Rock Sole	Unidentified Species	89'TOTAL
F	466	6	137	0	0	0	0	0	609
FBN	771	0	0	0	0	0	0	0	771
FN	44,134	148	4,337	0	0	236	0	1,154	50,009
H	109	0	0	0	0	0	0	0	109
HG	148	0	0	12	1,459	2,269	50	73	4,011
HGT	0	0	0	0	0	5	0	0	5
M	0	0	0	0	0	0	0	25,734	25,734
O	1,750	0	0	0	0	0	0	60	1,810
OS	0	0	0	0	0	0	0	22	22
R	4,784	0	0	0	0	0	0	23	4,807
S	473	0	0	0	0	0	0	0	473
SU	0	0	0	0	0	0	0	87	87
TU	718	2	275	25	322	11	0	352	1,705
TOT	53,353	156	4,749	37	1,781	2,521	50	27,505	90,152
****1988 TOTALS****									
TOT	46,519	28	1,841	0	0	0	* 0	19,806	68,194

(* some product and species groups do not repeat from 1988)

TABLE: PL-2

POLAND - SUBTOTAL TRANSFERS - TRANSPORT TO TRANSPORT (1989)
(by species/product/metric tonnage)

Product /Species

Type /

	Pollock	Pacific Cod	Pacific Hake	Rockfish	Other Flounder	Yellowfin Sole	Unidentified Species	89'TOTAL
F	77	3	0	0	0	0	0	80
FBN	500	0	0	0	0	0	0	500
FN	13,705	80	1,846	0	0	0	204	15,835
HG	28	0	0	0	0	543	0	571
M	0	0	0	0	0	0	7,792	7,792
O	208	0	0	0	0	0	0	208
R	2,127	0	0	0	0	0	0	2,127
S	213	0	0	0	0	0	0	213
TU	210	2	43	9	238	5	0	507
TOT	17,068	85	1,888	9	238	548	7,996	27,833

TABLE: PL-3

POLAND - TOTAL BEGIN PRODUCT ON BOARD - ALL VESSELS (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Cod	Pacific Hake	Rockfish	Other Species	Yellowfin Sole	Squid	Unidentified Species	89'TOTAL
F	848	0	1,910	0	0	0	0	9	2,767
FN	44,298	4	3,463	0	0	0	0	187	47,952
G	0	0	0	0	0	0	0	50	50
HG	454	0	18	27	0	0	0	0	499
HGT	0	0	0	0	3	0	0	0	3
M	0	0	0	0	0	0	0	26,831	26,831
MSO	0	0	0	0	0	0	30	0	30
O	1,976	0	0	0	0	0	0	7,536	9,512
R	4,292	0	0	0	0	2	0	839	5,133
S	2,511	0	0	0	0	0	0	225	2,736
SU	162	0	0	0	0	0	0	102	264
TSO	0	0	0	0	0	0	8	0	8
TU	1,151	0	423	136	0	0	0	235	1,945
W	283	0	0	0	0	0	0	0	283
TOT	55,975	0	5,814	163	3	2	38	36,014	98,009

TABLE: PL-4

POLAND - SUBTOTAL BEGIN PRODUCT ON BOARD - TRANSPORTS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Cod	Pacific Hake	Rockfish	Unidentified Species	89'TOTAL
F	515	0	1,910	0	0	2,425
FN	8,252	4	2,431	0	0	10,687
HG	28	0	0	0	0	28
M	0	0	0	0	8,589	8,589
O	0	0	0	0	6,793	6,793
R	90	0	0	0	0	90
S	2,362	0	0	0	0	2,362
SU	62	0	0	0	0	62
TU	310	0	364	119	62	855
TOT	11,619	4	4,705	119	15,444	31,891

TABLE: PL-5

POLAND - SUBTOTAL BEGIN PRODUCT ON BOARD - FISHING VESSELS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Pacific Hake	Rockfish	Other Species	Yellowfin Sole	Squid	Unidentified Species	89'TOTAL
F	333	0	0	0	0	0	9	342
FN	36,045	1,032	0	0	0	0	187	37,264
G	0	0	0	0	0	0	50	50
HG	427	18	27	0	0	0	0	472
HGT	0	0	0	3	0	0	0	3
M	0	0	0	0	0	0	18,242	18,242
MSO	0	0	0	0	0	30	0	30
O	1,976	0	0	0	0	0	743	2,719
R	4,202	0	0	0	2	0	839	5,043
S	149	0	0	0	0	0	225	374
SU	101	0	0	0	0	0	102	203
TSO	0	0	0	0	0	8	0	8
TU	841	59	16	0	0	0	173	1,089
W	283	0	0	0	0	0	0	283
TOT	44,357	1,109	43	3	2	38	20,570	66,122

TABLE: CH-1

CHINA - TOTAL TRANSFERS (1989)
(by species/product/metric tonnage)

Product /Species

Type /

	Pollock	Pacific Cod	Pacific Hake	Other Flounder	Rock Sole	Yellowfin Sole	Unidentified Species	89 TOTAL
F	0	7	0	0	0	0	0	7
FN	1,148	0	190	0	0	0	0	1,338
HG	0	0	0	25	0	0	0	25
M	0	0	0	0	0	0	1,214	1,214
O	18	0	0	0	0	0	0	18
R	392	0	0	0	0	0	0	392
S	0	0	2	0	0	147	0	149
W	0	0	0	0	36	2,127	65	2,228
TOT	1,558	7	192	25	36	2,274	1,279	5,371
****1988 TOTALS****								
TOT	3,177	32	0	1,819	* 0	7,276	902	13,206

(* some products and species groups do not repeat from 1988)

TABLE: CH-2

CHINA - SUBTOTAL TRANSFERS - TRANSPORT TO TRANSPORT (1989)
(by species/product/metric tonnage)

Product /Species

Type /

NONE

TABLE: CH-3

CHINA - TOTAL BEGIN PRODUCT ON BOARD - ALL VESSELS (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Unidentified Species	89'TOTAL
FBN	2	0	2
FN	264	0	264
M	0	548	548
O	15	0	15
OS	0	11	11
R	146	0	146
TOT	427	559	986

TABLE: CH-4

CHINA - SUBTOTAL BEGIN PRODUCT ON BOARD - TRANSPORTS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

NONE

TABLE: CH-5

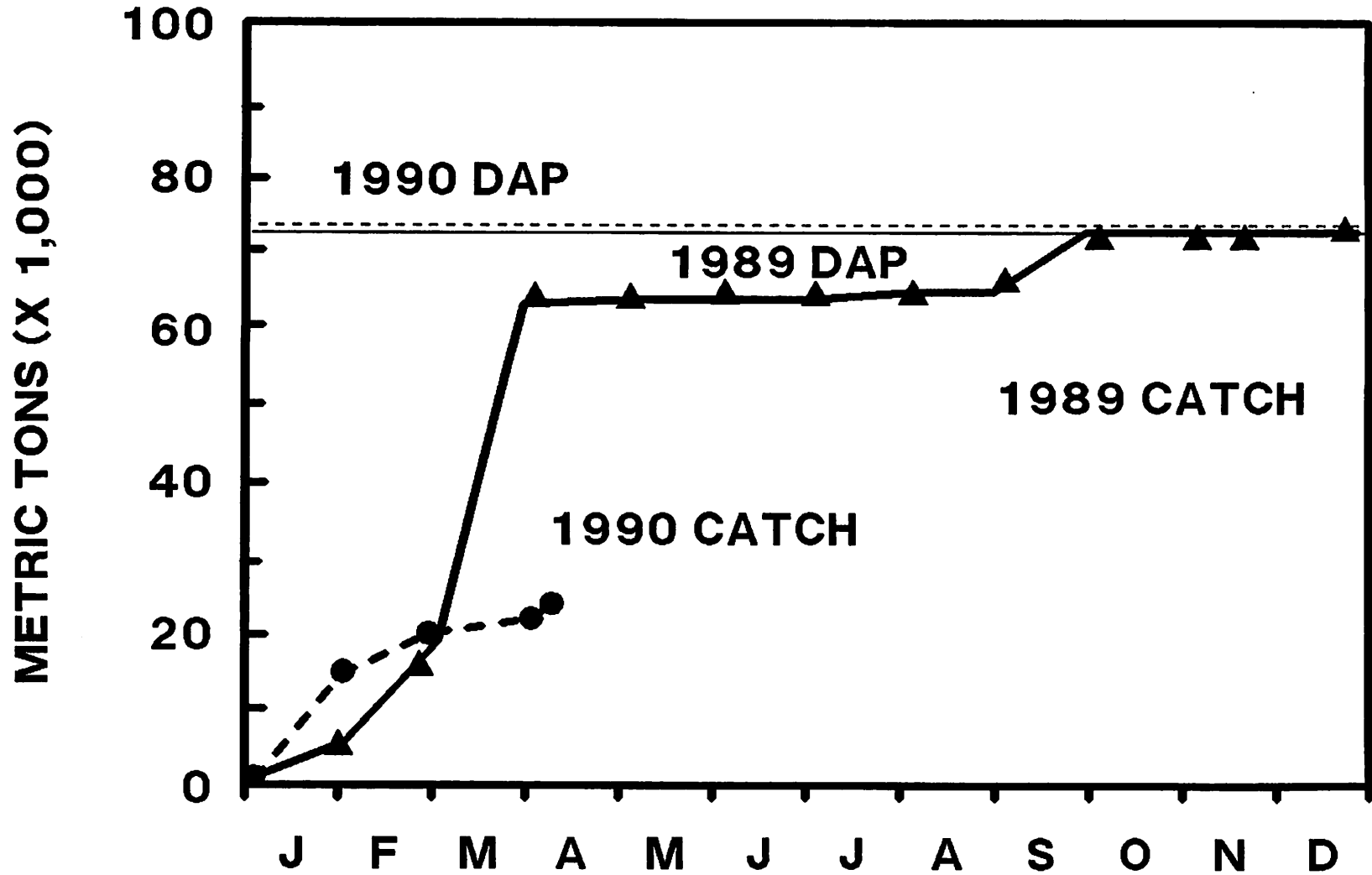
CHINA - SUBTOTAL BEGIN PRODUCT ON BOARD - FISHING VESSELS ONLY (1989)
 (by species/product/metric tonnage)

Product /Species
 Type /

	Pollock	Unidentified Species	89'TOTAL
FBN	2	0	2
FN	264	0	264
M	0	548	548
O	15	0	15
OS	0	11	11
R	146	0	146
TOT	427	559	986

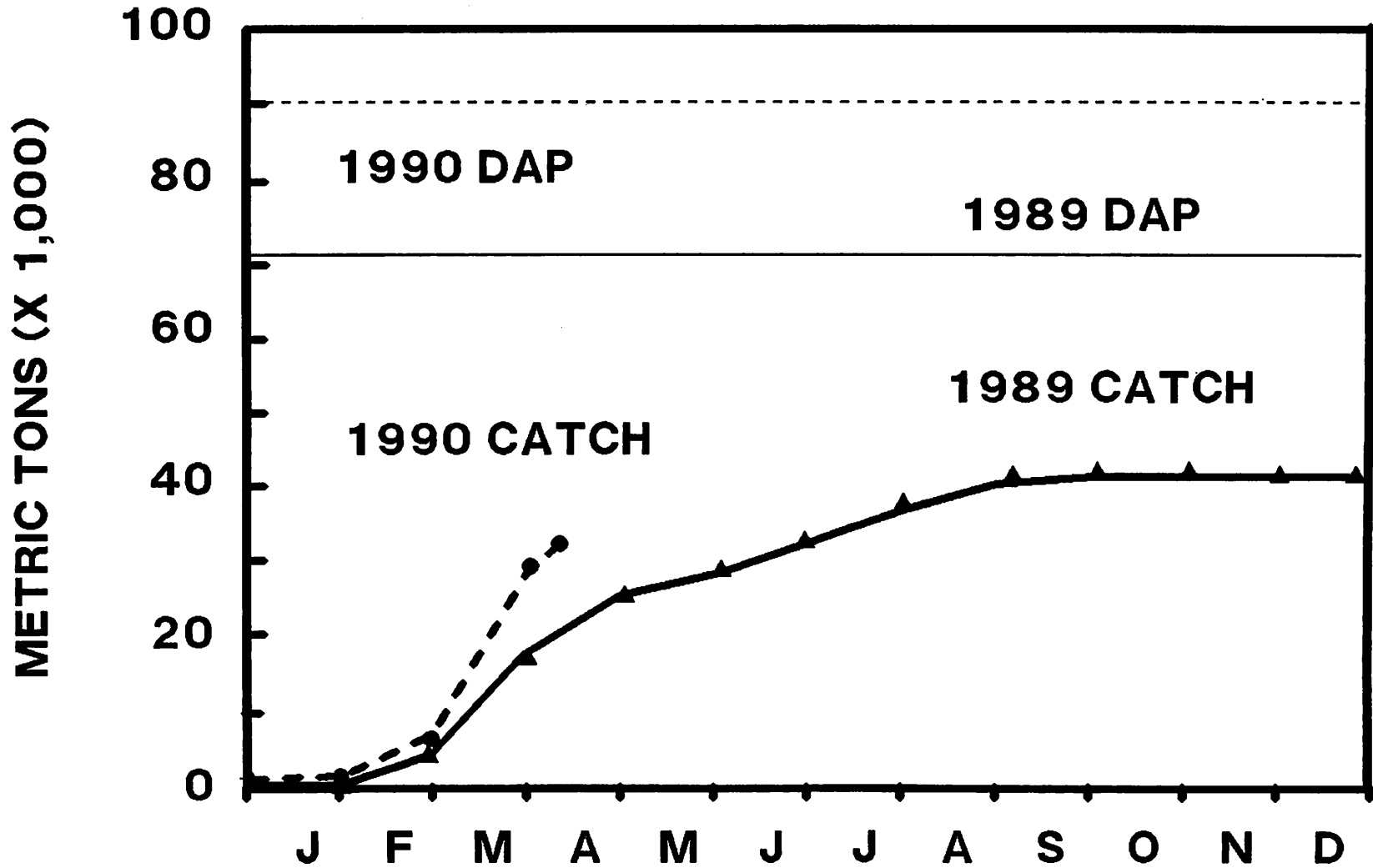
DAP CATCH

GOA POLLOCK



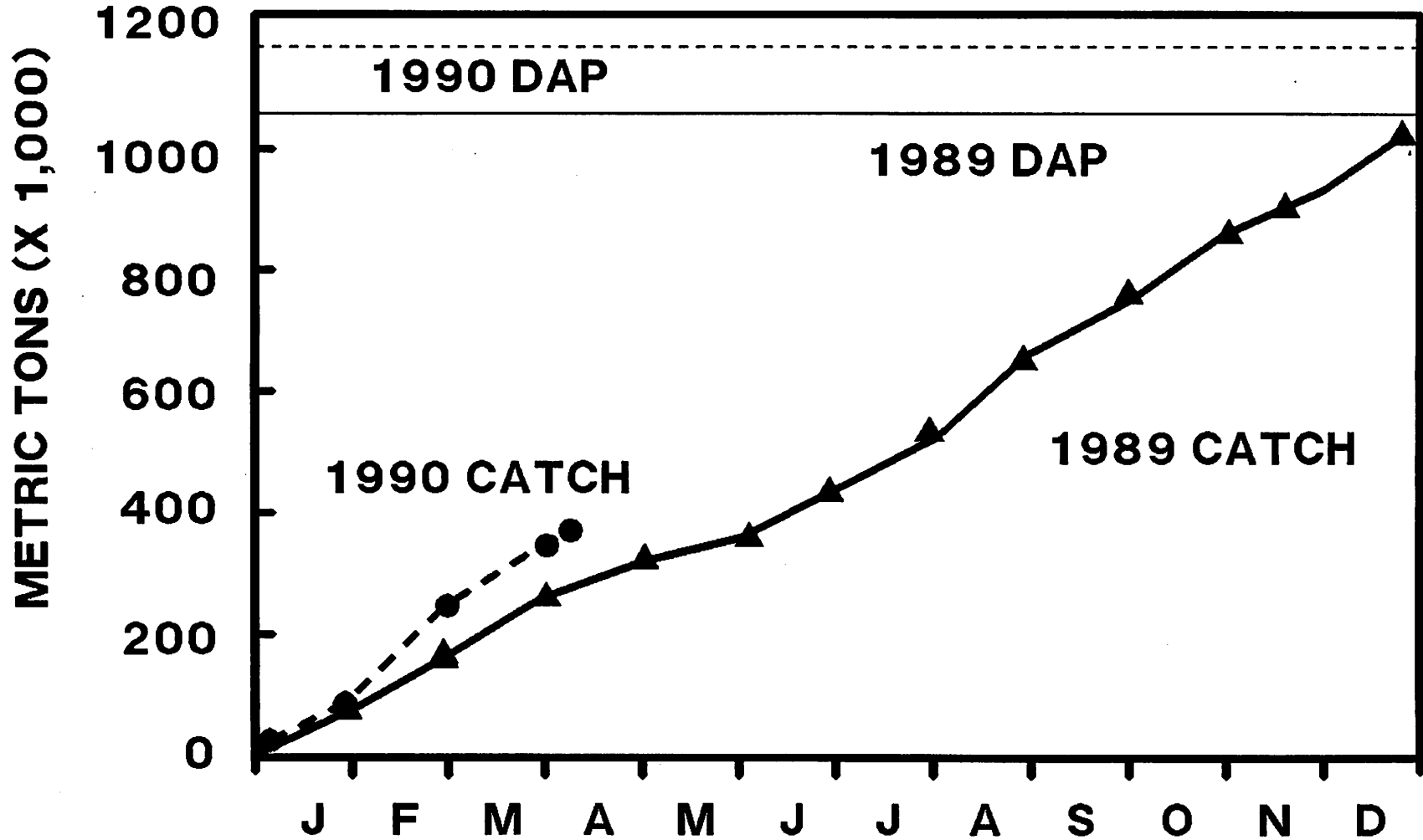
DAP CATCH

GOA PACIFIC COD



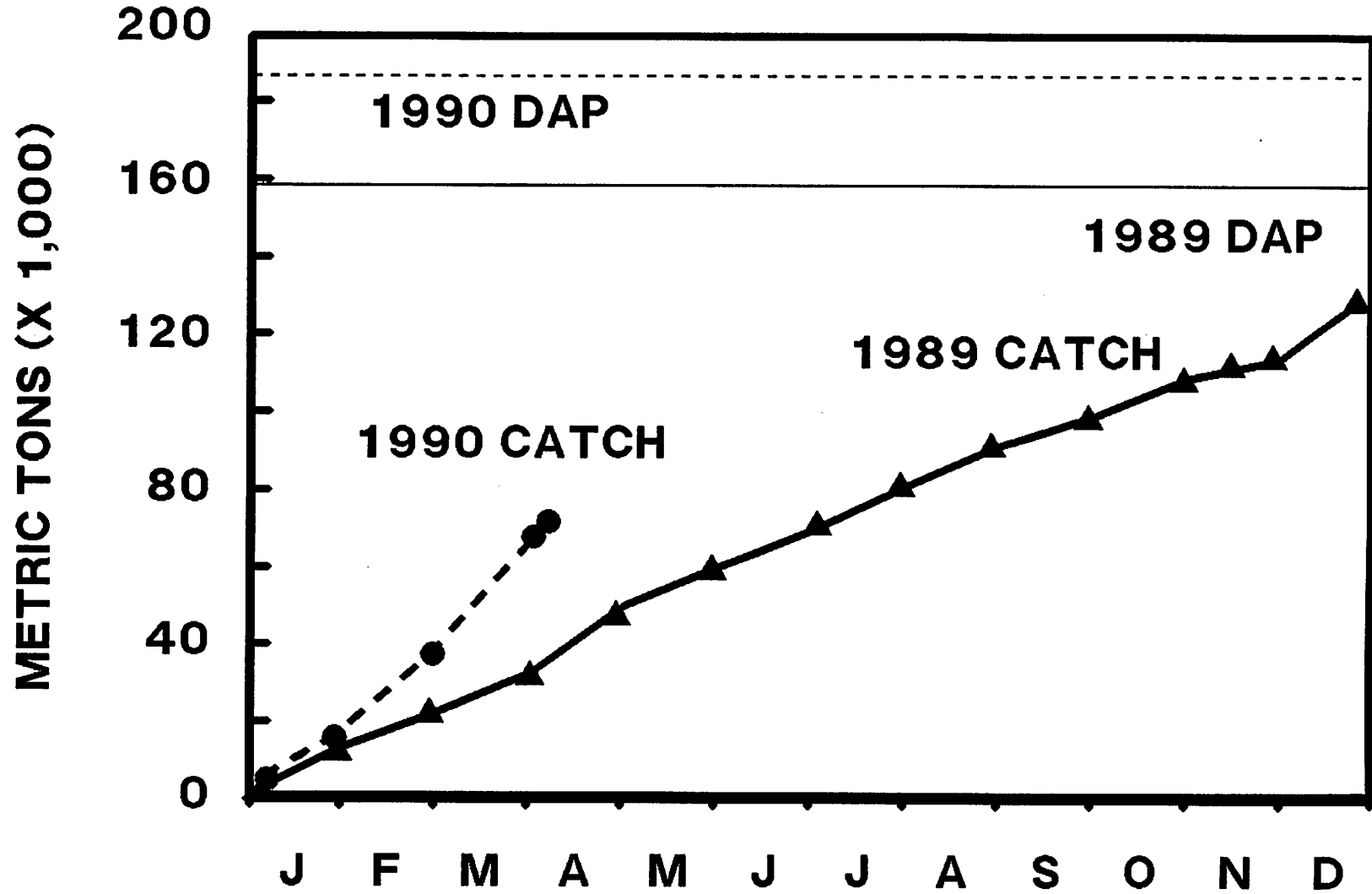
DAP CATCH

BSAI POLLOCK



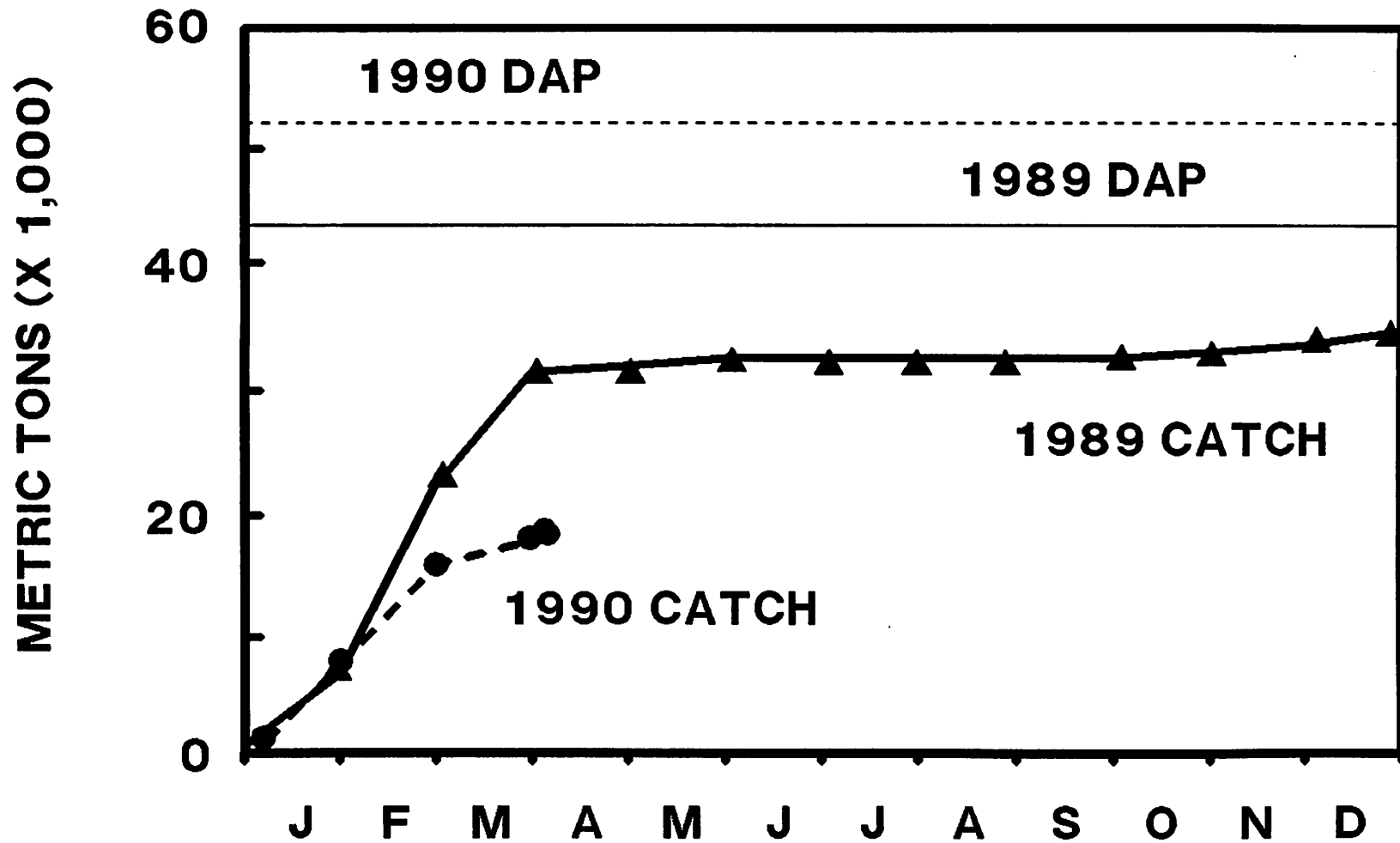
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BSAI PACIFIC COD



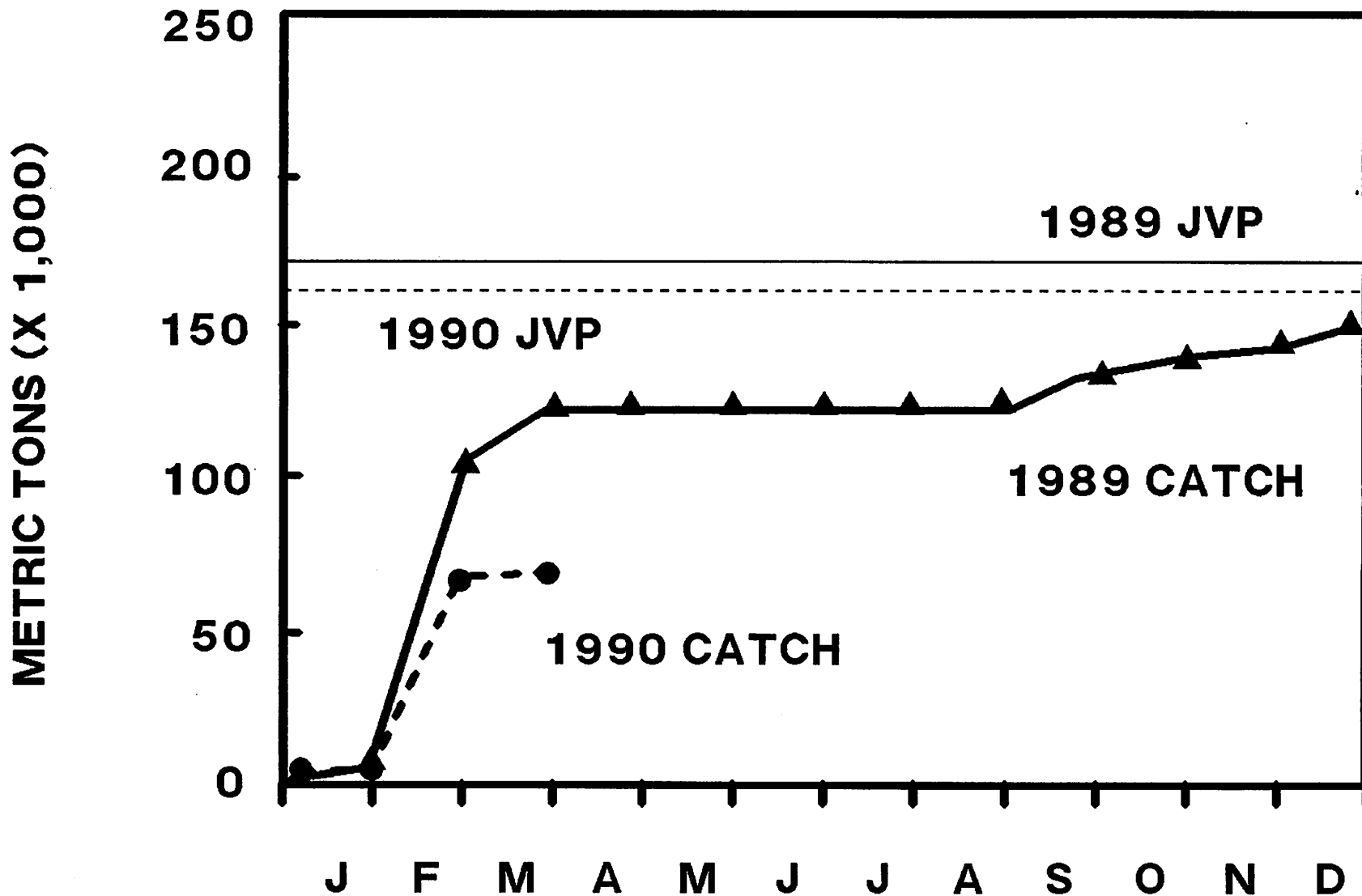
DAP CATCH

BSAI ROCK SOLE



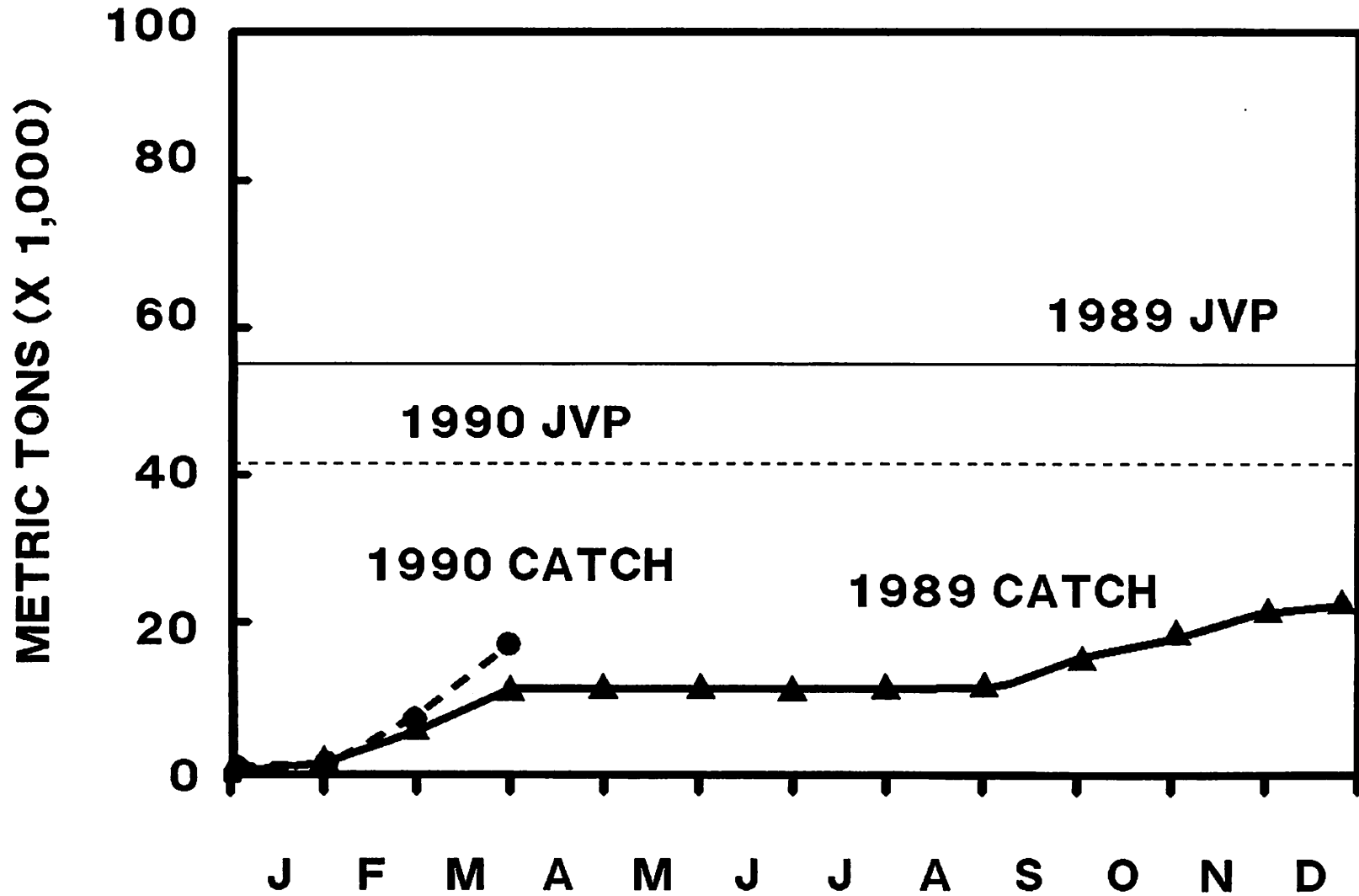
JVP CATCH

BSAI YELLOWFIN SOLE

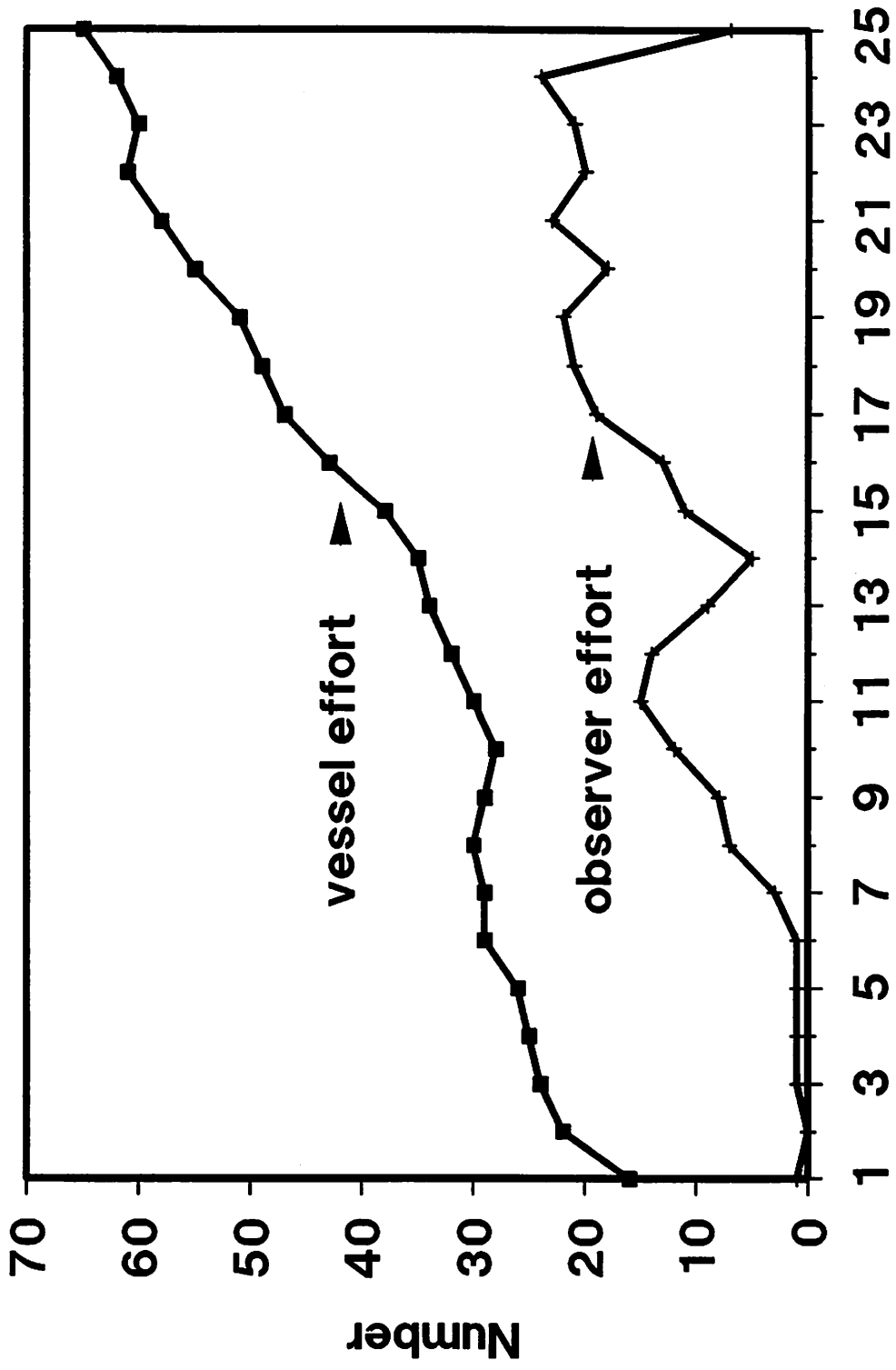


JVP CATCH

BSAI "OTHER FLATFISH"

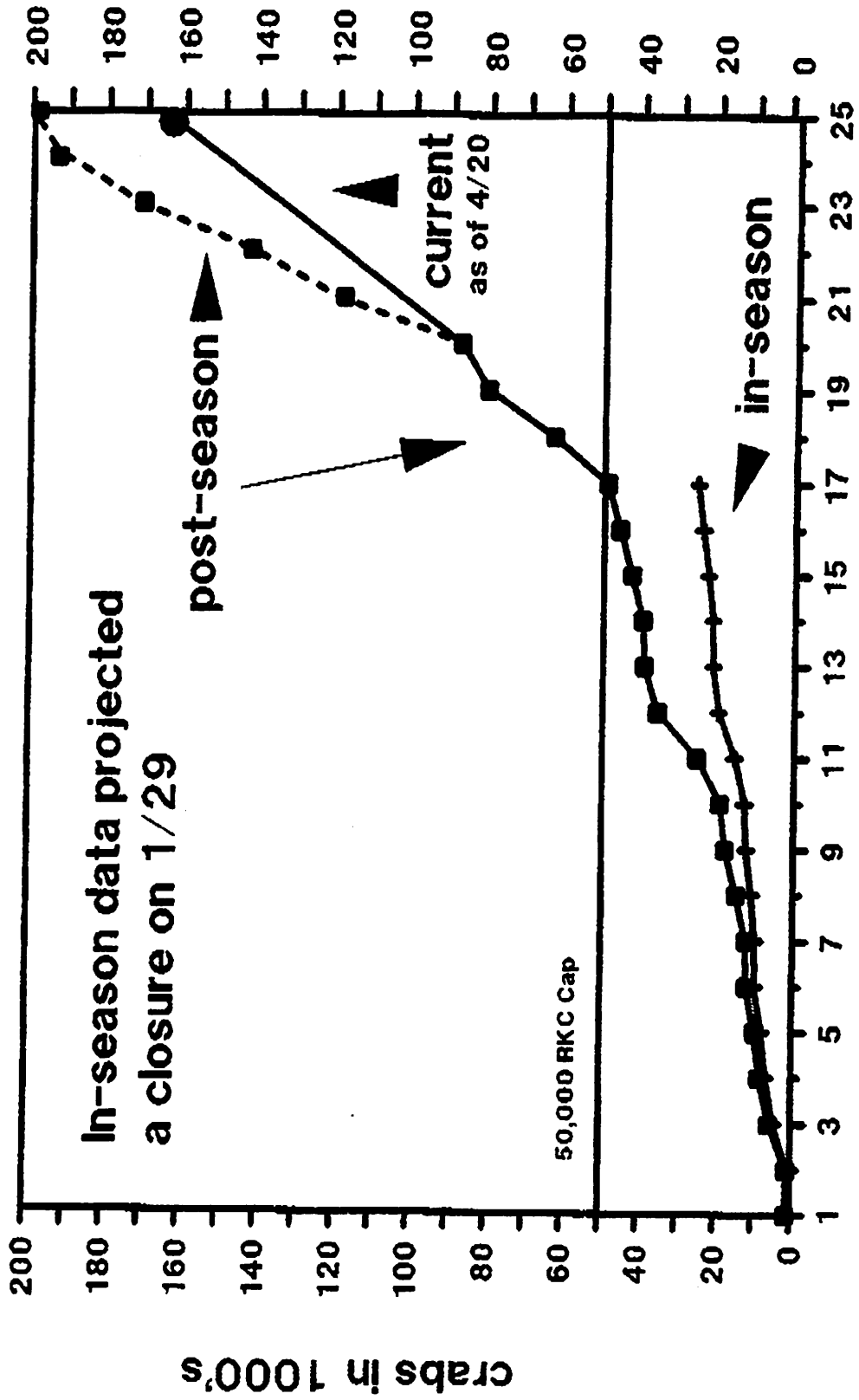


JVP ZONE 1 FLATFISH FISHERY



JANUARY 1990

JVP ZONE 1 RED KING CRAB CATCH



January 1990

Observed DAP Rates of Pacific Halibut Bycatch

Average rates Jan 1 - April 7, 1990
(kg / mt groundfish)

<u>Target</u>	BSAI			GOA		
	<u>At-sea</u>	<u>Shoreside</u>	<u>All</u>	<u>At-sea</u>	<u>Shoreside</u>	<u>All</u>
PLCK (bot)	0.9	-	0.9	-	-	-
Mixed "other" ¹	11.3	13.4	11.8	51.5	9.0	28.0
AMCK	-	-	9.9	-	-	-
GTRB	79.7	*	80.4	-	-	-
FLAT	12.4	*	12.8	*	15.3	59.9

¹ includes Pcod and rockfish
* rates are confidential

Halibut Bycatch Rates in DAP BSAI Fisheries

Bottom Trawl Gear, "Other" Target Fisheries
(kg halibut / mt groundfish)

week	511	513	515	516	517	521	522	540
1/06	4.2	*	-	-	*	*	-	-
1/13	4.8	-	-	-	14.2	-	-	*
1/20	12.8	-	*	-	16.8	-	-	*
1/27	7.7	-	*	-	24.9	-	-	-
2/03	12.0	-	*	-	10.1	-	-	-
2/10	9.8	-	*	-	8.7	-	-	-
2/17	11.1	-	*	-	19.6	-	-	-
2/24	21.5	*	34.5	*	7.4	*	-	*
3/03	7.0	0.3	59.4	-	28.6	-	-	-
3/10	2.3	0.3	110.7	-	22.1	-	*	-
3/17	3.5	*	111.7	-	4.9	3.5	*	*
3/24	1.1	1.6	85.3	-	11.2	2.7	*	*
3/31	1.7	0.4	84.6	-	5.6	2.8	*	*
4/07	1.9	5.7	37.8	-	3.0	7.3	*	*

* rates are confidential

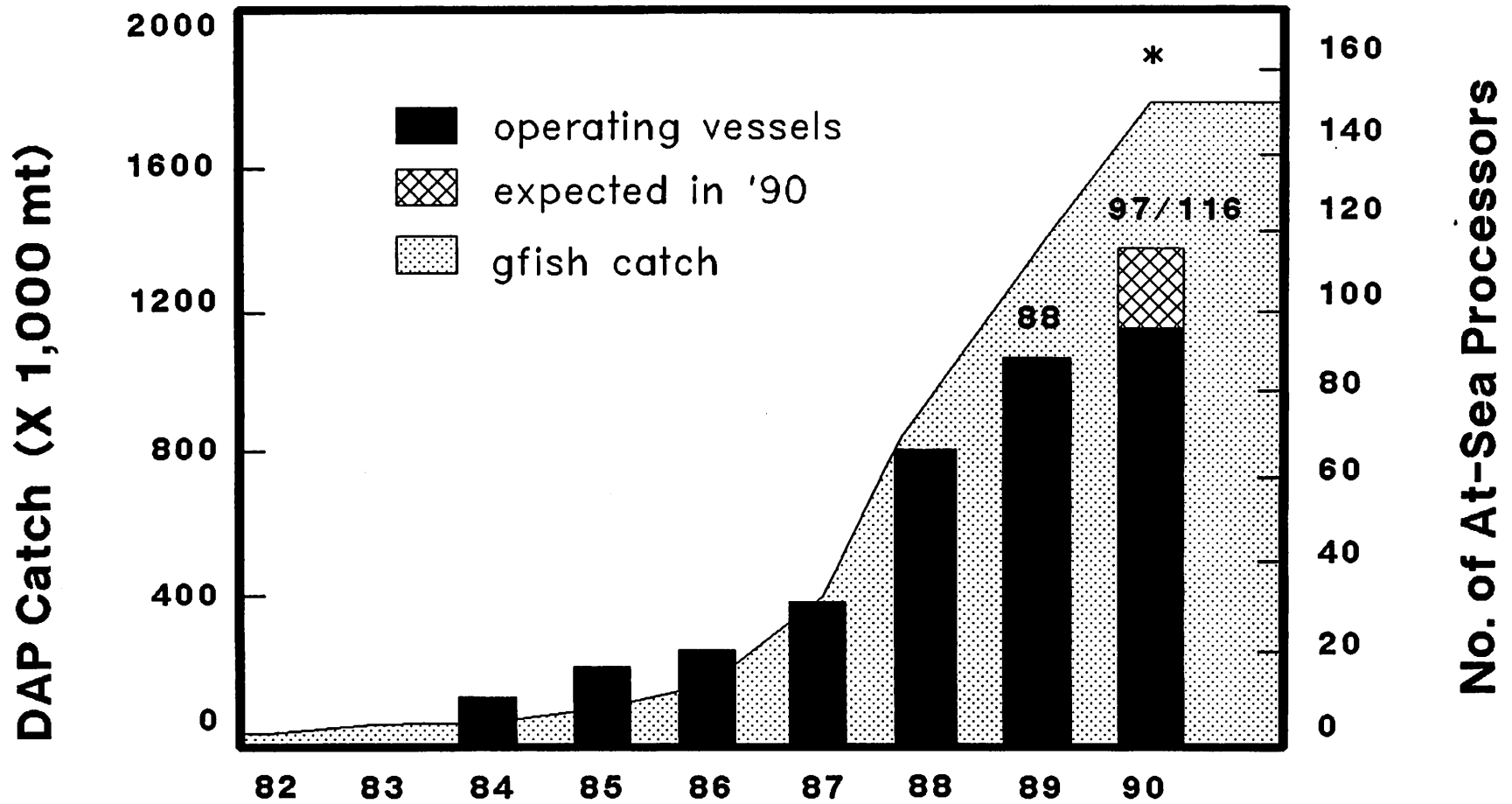
Halibut Bycatch Rates in DAP GOA Fisheries

Bottom Trawl Gear, "Other" Target Fisheries
(kg halibut / mt groundfish)

week	61	62	621	631	63	64	68	65
1/06	-	-	-	-	-	-	-	-
1/13	-	-	-	-	-	-	-	-
1/20	-	-	-	-	-	-	-	-
1/27	-	-	-	-	-	-	-	-
2/03	-	-	-	-	*	-	-	-
2/10	-	-	-	*	17.4	-	-	-
2/17	-	-	-	*	17.2	-	-	-
2/24	*	-	-	*	12.4	-	-	-
3/03	*	-	-	-	21.8	-	-	-
3/10	22.0	*	-	-	169.9	-	-	-
3/17	5.2	4.1	-	-	35.8	-	-	-
3/24	5.4	*	73.9	*	20.7	*	-	*
3/31	6.5	*	*	*	15.5	*	-	*
4/07	9.3	*	-	-	22.0	76.4	*	*

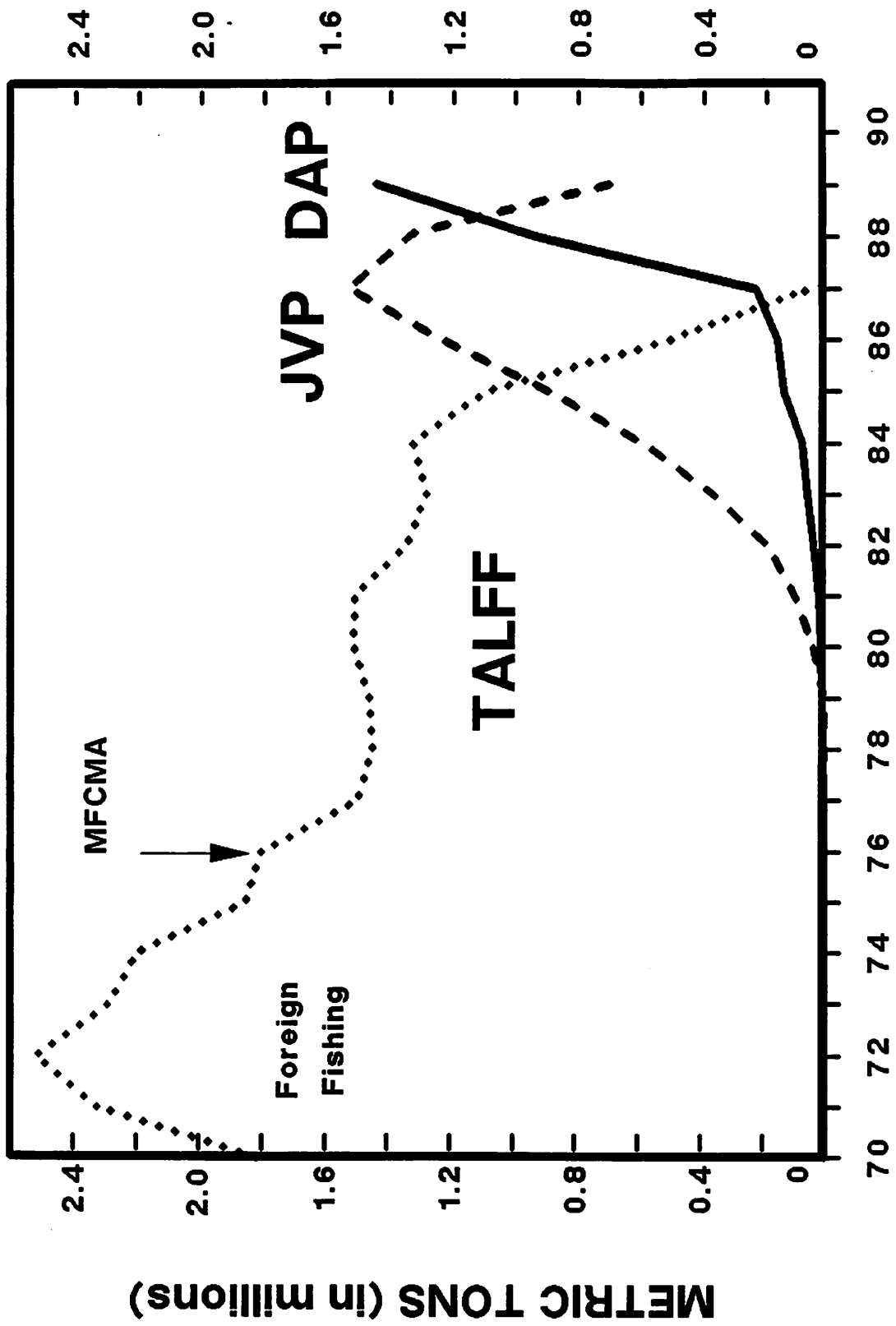
*rates are confidential

ALASKA DAP GROUND FISH TRENDS



* 1990 DAP TAC

ALASKA GROUND FISH CATCH



NMFS/AKR 20-Apr GULF OF ALASKA HALIBUT BYCATCH ESTIMATES
 RATES IN KG/MT CATCH IN MT

	PELAGIC	BOTTOM TRAWL.....				TOTAL TRAWL
	ALL	WEST	CENTRAL	EAST	ALL		
GROUND FISH CATCH THRU 4/7	20888	19724	19467	1628	40819	61707	
PUB. MORT. RATE	50%				50%		
PUB. CATCH RATE *	0.10				27.00		
EST. CATCH	2.1				1102.1		
EST. MORTALITY	1.0				551.1	552.1	
OBS. CATCH RATE *	0.02	8.75	45.72	44.92			
EST. CATCH	0.4	172.6	890.0	73.1	1135.7		
EST. MORTALITY	0.2	86.3	445.0	36.6	567.9	568.1	
IST PLUS 2ND QTR QUOTA						1200.0	
OBSERVED CATCH	6179	6536	6499	1389	14168	20347	
% CATCH OBSERVED	29.6%	33.1%	33.4%	85.3%	34.7%	33.0%	

LONGLINE.....		TOTAL LONGLINE	POTS
	PAC COD	SABLEFISH		
GROUND FISH CATCH THRU 4/7	4807	2180	6987	N/A
PUB. MORT. RATE	13%	13%		
PUB. CATCH RATE *	100.00	80.00		4.00
EST. CATCH	480.7	174.4		
EST. MORTALITY	62.5	22.7	85.2	
OBS. CATCH RATE *	34.11	79.37		
EST. CATCH	164.0	173.0		
EST. MORTALITY	21.3	22.5	43.8	
IST PLUS 2ND QTR QUOTA			600.0	
OBSERVED CATCH			1308	
% CATCH OBSERVED	N/A	N/A	18.7%	

- o TO CONVERT KG/MT TO PERCENT OF CATCH, PUT DECIMAL ONE PLACE TO LEFT; I.E. 27.00 KG/MT EQUALS 2.7%
- o THIS IS A PRELIMINARY REPORT.
- o PROGRAM DEVELOPMENT OF GULF PSC REPORTS IS ONGOING.
- o SOON AFTER FIRST QUARTER, MULTI-AGENCY STAFF WILL DECIDE ON USE OF PUBLISHED OR OBSERVED RATES ON A CASE BY CASE BASIS.

HALIBUT			BSAI-PACIFIC COD					
2ND QUOTA REM:		1770				07-Apr	REMAIN:	123788
WEEKLY RATES	WEEKS TO CLOSURE	CLOSURE DATE	CATCH AND REMAINDERS AT DIFFERENT CATCH RATES (IN MT)					
			2000	REMAIN.	3000	REMAIN.	4000	REMAIN.
46	38	01-Jan	76957	46831	115435	8353	153913	-30125
50	35	10-Dec	70800	52988	106200	17588	141600	-17812
55	32	18-Nov	64364	59424	96545	27243	128727	-4939
60	30	30-Oct	59000	64788	88500	35288	118000	5788
65	27	14-Oct	54462	69326	81692	42096	108923	14865
70	25	01-Oct	50571	73217	75857	47931	101143	22645
75	24	19-Sep	47200	76588	70800	52988	94400	29388
80	22	08-Sep	44250	79538	66375	57413	88500	35288
85	21	30-Aug	41647	82141	62471	61317	83294	40494
90	20	22-Aug	39333	84455	59000	64788	78667	45121
95	19	15-Aug	37263	86525	55895	67893	74526	49262
100	18	08-Aug	35400	88388	53100	70688	70800	52988
105	17	03-Aug	33714	90074	50571	73217	67429	56359
110	16	28-Jul	32182	91606	48273	75515	64364	59424
115	15	23-Jul	30783	93005	46174	77614	61565	62223
120	15	19-Jul	29500	94288	44250	79538	59000	64788
125	14	15-Jul	28320	95468	42480	81308	56640	67148
130	14	11-Jul	27231	96557	40846	82942	54462	69326
135	13	07-Jul	26222	97566	39333	84455	52444	71344
140	13	04-Jul	25286	98502	37929	85859	50571	73217
145	12	01-Jul	24414	99374	36621	87167	48828	74960
150	12	28-Jun	23600	100188	35400	88388	47200	76588
155	11	25-Jun	22839	100949	34258	89530	45677	78111
160	11	23-Jun	22125	101663	33188	90601	44250	79538
165	11	21-Jun	21455	102333	32182	91606	42909	80879
170	10	18-Jun	20824	102964	31235	92553	41647	82141
175	10	16-Jun	20229	103559	30343	93445	40457	83331
180	10	14-Jun	19667	104121	29500	94288	39333	84455
185	10	12-Jun	19135	104653	28703	95085	38270	85518
190	9	11-Jun	18632	105156	27947	95841	37263	86525
195	9	09-Jun	18154	105634	27231	96557	36308	87480
200	9	07-Jun	17700	106088	26550	97238	35400	88388

HOW TO READ THIS TABLE:

IF HALIBUT BYCATCH RATES CONTINUE AT 95 KG/MT, THE REMAINDER OF THE SECONDARY QUOTA WILL BE TAKEN IN ABOUT 19 WEEKS, ON AUGUST 15.
 IF PACIFIC COD CATCH RATES ARE 3000 MT/WEEK, AN ADDITIONAL 56000 MT CAN BE TAKEN. AT THAT TIME, 68000 MT OF PACIFIC COD WOULD REMAIN TO BE TAKEN. THIS WOULD BE AVAILABLE TO BE TAKEN BY FIXED GEAR.

ASSUMPTIONS:

GEAR MIX OF PACIFIC COD CF REMAINS SAME AS CURRENT MIX.
 WEEKS TO CLOSURE START WITH APRIL 8.

HALIBUT
2ND QUOTA REM: 1770

BS POLLOCK

07-Apr REMAIN: 1062264

WEEKLY RATES	WEEKS TO CLOSURE	CLOSURE DATE	CATCH AND REMAINDERS AT DIFFERENT CATCH RATES (IN MT)					
			25000	REMAIN.	30000	REMAIN.	35000	REMAIN.
46	38.5	01-Jan	961957	100307	1154348	-92084	1346739	-284475
50	35.4	10-Dec	885000	177264	1062000	264	1239000	-176736
55	32.2	18-Nov	804545	257719	965455	96809	1126364	-64100
60	29.5	30-Oct	737500	324764	885000	177264	1032500	29764
65	27.2	14-Oct	680769	381495	816923	245341	953077	109187
70	25.3	01-Oct	632143	430121	758571	303693	885000	177264
75	23.6	19-Sep	590000	472264	708000	354264	826000	236264
80	22.1	08-Sep	553125	509139	663750	398514	774375	287889
85	20.8	30-Aug	520588	541676	624706	437558	728824	333440
90	19.7	22-Aug	491667	570597	590000	472264	688333	373931
95	18.6	15-Aug	465789	596475	558947	503317	652105	410159
100	17.7	08-Aug	442500	619764	531000	531264	619500	442764
105	16.9	03-Aug	421429	640835	505714	556550	590000	472264
110	16.1	28-Jul	402273	659991	482727	579537	563182	499082
115	15.4	23-Jul	384783	677481	461739	600525	538696	523568
120	14.8	19-Jul	368750	693514	442500	619764	516250	546014
125	14.2	15-Jul	354000	708264	424800	637464	495600	566664
130	13.6	11-Jul	340385	721879	408462	653802	476538	585726
135	13.1	07-Jul	327778	734486	393333	668931	458889	603375
140	12.6	04-Jul	316071	746193	379286	682978	442500	619764
145	12.2	01-Jul	305172	757092	366207	696057	427241	635023
150	11.8	28-Jun	295000	767264	354000	708264	413000	649264
155	11.4	25-Jun	285484	776780	342581	719683	399677	662587
160	11.1	23-Jun	276563	785702	331875	730389	387188	675077
165	10.7	21-Jun	268182	794082	321818	740446	375455	686809
170	10.4	18-Jun	260294	801970	312353	749911	364412	697852
175	10.1	16-Jun	252857	809407	303429	758835	354000	708264
180	9.8	14-Jun	245833	816431	295000	767264	344167	718097
185	9.6	12-Jun	239189	823075	287027	775237	334865	727399
190	9.3	11-Jun	232895	829369	279474	782790	326053	736211
195	9.1	09-Jun	226923	835341	272308	789956	317692	744572
200	8.9	07-Jun	221250	841014	265500	796764	309750	752514

HOW TO READ THIS TABLE:

IF HALIBUT BYCATCH RATES CONTINUE AT 95 KG/MT, THE REMAINDER OF THE SECONDARY QUOTA WILL BE TAKEN IN ABOUT 19 WEEKS, ON AUGUST 15.
IF POLLOCK RATES ARE 30000 MT/WEEK, AN ADDITIONAL 559000 MT CAN BE TAKEN. AT THAT TIME, 422000 MT OF POLLOCK WOULD REMAIN. THIS WOULD BE AVAILABLE TO BE TAKEN WITH PELAGIC TRAWLS.

ASSUMPTIONS:

250000 MT OF RESERVES GOES TO POLLOCK QUOTA
GRAB MIX OF POLLOCK CATCH REMAINS SAME AS CURRENT MIX

NATIONAL MARINE FISHERIES SERVICE
 FISHERY MANAGEMENT DIVISION
 JUNEAU, ALASKA

Last Update
 17-Apr

1990 FEDERAL GROUND FISH FISHERIES OFF ALASKA
 DOMESTIC and JOINT VENTURE CLOSURES

* Contact ADF&G for state waters closures

REF #	AREA	SUB-AREA(S)	TYPE	GEAR	SPECIES	STATUS	EFF. FROM	DATES TO	see ref #
1	BS	51 - 53	JVP	ALL	POLLOCK	BYCATCH	01/01	12/31	
2	BS	54	JVP	ALL	POLLOCK	PSC	01/01	12/31	
3	BSAI	51 - 54	JVP	ALL	PACIFIC COD	BYCATCH	01/01	12/31	
4	BSAI	51 - 54	JVP	ALL	ROCK SOLE	BYCATCH	01/01	12/31	
5	BSAI	51 - 54	JVP	ALL	ARROWT. FLOUNDER	BYCATCH	01/01	12/31	
6	BSAI	51 - 54	JVP	ALL	"OTH SPECIES"	BYCATCH	01/01	12/31	
7	BSAI	51 - 54	JVP	ALL	SABLEFISH	PSC	01/01	12/31	
8	BSAI	51 - 54	JVP	ALL	POP AND ROCKFISH	PSC	01/01	12/31	
9	BSAI	51 - 54	JVP	ALL	GREENLAND TURBOT	PSC	01/01	12/31	
10	BSAI	51 - 54	JVP	ALL	ATKA MACKEREL	PSC	01/01	12/31	
11	GOA	61 - 631	JVP	ALL	ALL	CLOSED	01/01	12/31	
12	BS	512	DAH	TRAWL	ALL	CLOSED	01/01	12/31	
13	GOA	61 - 631	DAH	TRAWL	SABLEFISH	BYCATCH	01/01	12/31	
14	GOA	61 - 631	DAH	LL	SABLEFISH	BYCATCH	01/01	04/01	
15	BS	ZONE 1	JVP	ALL	FLATFISH FISHERY	CLOSED	01/25	12/31	
16	GOA	61,62,63	DAP	ALL	POLLOCK	BYCATCH	01/26	03/31	
17	BS	ZONE 2H	JVP	ALL	FLATFISH FISHERY	CLOSED	02/27	12/31	
18	BS	ZONE 1	DAP	ALL	FLATFISH FISHERY	CLOSED	02/27	03/01	
19	GOA	621 + 631	DAP	ALL	POLLOCK	BYCATCH	02/28	03/31	
20	BSAI	51 - 54	JVP	ALL	FLATFISH FISHERY	CLOSED	03/05	12/31	
21	BS	ZONE 1 + 2H	DAP	ALL	FLATFISH FISHERY	CLOSED	03/14	12/31	
22	BS	516	DAH	TRAWL	ALL	CLOSED	03/15	06/15	
23	BSAI	51 - 54	DAP	ALL	FLATFISH FISHERY	CLOSED	03/19	12/31	
24	BSAI	51 - 54	DAP	ALL	GREENLAND TURBOT	BYCATCH	04/12	12/31	
25	GOA	64	DAH	LL	SABLEFISH	BYCATCH	04/16	12/31	
26	GOA	65 + 68	DAH	LL	SABLEFISH	BYCATCH	04/20	12/31	

1990

GULF OF ALASKA
DAP CATCHES THROUGH:CURRENT APPORTIONMENTS AND CURRENT CATCHES
07-AprNMFS/AKR/FISH MGT.
prepared 20-Apr

SPECIES	CURRENT APPORT.	CURRENT CATCHES	SPECIES	CURRENT APPORT.	CURRENT CATCHES
POLLOCK (WESTERN/CENTRAL)	TAC 70,000 DAP 70,000 JVP 0 RES 0 ABC= 70,000	TOTAL 23,241 DAP 23,241 JVP 0 REMAIN. 46,759	OTHER ROCKFISH (WESTERN)	TAC 4,300 DAP 4,300 JVP 0 RES 0 ABC= 4,300	TOTAL 592 DAP 592 JVP 0 REMAIN. 3,708
POLLOCK (EASTERN)	TAC 3,400 DAP 3,400 JVP 0 RES 0 ABC= 3,400	TOTAL 25 DAP 25 JVP 0 REMAIN. 3,375	OTHER ROCKFISH (CENTRAL)	TAC 7,700 DAP 7,700 JVP 0 RES 0 ABC= 7,700	TOTAL 1,432 DAP 1,432 JVP 0 REMAIN. 6,268
PACIFIC COD (WESTERN)	TAC 29,500 DAP 29,500 JVP 0 RES 0 ABC= 29,500	TOTAL 19,303 DAP 19,303 JVP 0 REMAIN. 10,197	OTHER ROCKFISH (EASTERN)	TAC 5,700 DAP 5,700 JVP 0 RES 0 ABC= 5,700	TOTAL 1,289 DAP 1,289 JVP 0 REMAIN. 4,411
PACIFIC COD (CENTRAL)	TAC 59,500 DAP 59,500 JVP 0 RES 0 ABC= 59,500	TOTAL 14,953 DAP 14,953 JVP 0 REMAIN. 44,547	PELAGIC SHELF ROCKFISH (WESTERN)	TAC 1,400 DAP 1,400 JVP 0 RES 0 ABC= 1,400	TOTAL 1 DAP 1 JVP 0 REMAIN. 1,399
PACIFIC COD (EASTERN)	TAC 1,000 DAP 1,000 JVP 0 RES 0 ABC= 1,000	TOTAL 37 DAP 37 JVP 0 REMAIN. 963	PELAGIC SHELF ROCKFISH (CENTRAL)	TAC 5,800 DAP 5,800 JVP 0 RES 0 ABC= 5,800	TOTAL 19 DAP 19 JVP 0 REMAIN. 5,781
ARROWTOOTH FLOUNDER (WESTERN)	TAC 4,450 DAP 4,450 JVP 0 RES 0 ABC= 27,000	TOTAL 212 DAP 212 JVP 0 REMAIN. 4,238	PELAGIC SHELF ROCKFISH (EASTERN)	TAC 1,000 DAP 1,000 JVP 0 RES 0 ABC= 1,000	TOTAL 13 DAP 13 JVP 0 REMAIN. 987
ARROWTOOTH FLOUNDER (CENTRAL)	TAC 23,170 DAP 23,170 JVP 10,000 RES 0 ABC= 141,000	TOTAL 2,326 DAP 2,326 JVP 0 REMAIN. 20,844	DEMERSAL SHELF ROCKFISH (SE OUTSIDE)	TAC 470 DAP 470 JVP 0 RES 0 ABC= UNK	TOTAL 119 DAP 119 JVP 0 REMAIN. 351
ARROWTOOTH FLOUNDER (EASTERN)	TAC 4,380 DAP 4,380 JVP 0 RES 0 ABC= 26,600	TOTAL 182 DAP 182 JVP 0 REMAIN. 4,198	THORNYHEADS (GULF-WIDE)	TAC 3,800 DAP 3,800 JVP 0 RES 0 ABC= 3,800	TOTAL 260 DAP 260 JVP 0 REMAIN. 3,540
SABLEFISH (WESTERN)	TAC 3,770 DAP 3,770 JVP 0 RES 0 ABC= 3,800	TOTAL 193 DAP 193 JVP 0 REMAIN. 3,577	OTHER SPECIES	TAC 14,179 DAP 14,179 JVP 0 RES 0 ABC= N/A	TOTAL 922 DAP 922 JVP 0 REMAIN. 13,257
SABLEFISH (CENTRAL)	TAC 11,700 DAP 11,700 JVP 0 RES 0 ABC= 11,800	TOTAL 807 DAP 807 JVP 0 REMAIN. 10,893	SHALLOW WTR FLATFISH (WESTERN)	TAC 3,570 DAP 3,570 JVP 0 RES 0 ABC= 30,200	TOTAL 166 DAP 166 JVP 0 REMAIN. 3,404
SABLEFISH (EASTERN)	TAC 10,530 DAP 10,530 JVP 0 RES 0 ABC= 10,600	TOTAL 2,333 DAP 2,333 JVP 0 REMAIN. 8,197	SHALLOW WTR FLATFISH (CENTRAL)	TAC 6,180 DAP 6,180 JVP 0 RES 0 ABC= 52,200	TOTAL 594 DAP 594 JVP 0 REMAIN. 5,586
DEEP WATER FLATFISH (WESTERN)	TAC 3,650 DAP 3,650 JVP 0 RES 0 ABC= 16,300	TOTAL 29 DAP 29 JVP 0 REMAIN. 3,621	SHALLOW WTR FLATFISH (EASTERN)	TAC 250 DAP 250 JVP 0 RES 0 ABC= 2,100	TOTAL 195 DAP 195 JVP 0 REMAIN. 55
DEEP WATER FLATFISH (CENTRAL)	TAC 15,300 DAP 15,300 JVP 0 RES 0 ABC= 77,700	TOTAL 639 DAP 639 JVP 0 REMAIN. 14,661	TOTAL	TAC 297,749 DAP 297,749 JVP 10,000 RES 0 ABC= 606,800	TOTAL 69,910 DAP 69,910 JVP 0 REMAIN. 197,490
DEEP WATER FLATFISH (EASTERN)	TAC 3,050 DAP 3,050 JVP 0 RES 0 ABC= 14,400	TOTAL 28 DAP 28 JVP 0 REMAIN. 3,022			

1990 BERING SEA AND ALEUTIANS: CURRENT APPORTIONMENTS AND CURRENT CATCHES
DAP CATCHES THROUGH: 07-Apr JVP CATCHES THROUGH 10-Mar

SPECIES	CURRENT APPORT.	CURRENT CATCHES	SPECIES	CURRENT APPORT.	CURRENT CATCHES
POLLOCK (BER. SEA)	CTAC 1,110,451 DAP 1,088,000 JVP 22,451 OTAC= 1,280,000 "RES" 169,549	TOTAL 379,512 DAP 356,996 JVP 22,516 REMAIN. 730,939	POP (AL. IS.)	CTAC 5,610 DAP 5,610 JVP 0 OTAC= 6,600 "RES" 990	TOTAL 382 DAP 382 JVP 0 REMAIN. 5,228
POLLOCK (AL. IS.)	CTAC 85,000 DAP 85,000 JVP 0 OTAC= 100,000 "RES" 15,000	TOTAL 3,740 DAP 3,740 JVP 0 REMAIN. 81,260	ROCKFISH (BER. SEA)	CTAC 425 DAP 425 JVP 0 OTAC= 500 "RES" 75	TOTAL 122 DAP 122 JVP 0 REMAIN. 303
YELLOWFIN SOLE	CTAC 176,502 DAP 12,750 JVP 163,752 OTAC= 207,650 "RES" 31,148	TOTAL 67,363 DAP 1,874 JVP 65,489 REMAIN. 109,139	ROCKFISH (AL. IS.)	CTAC 935 DAP 935 JVP 0 OTAC= 1,100 "RES" 165	TOTAL 24 DAP 24 JVP 0 REMAIN. 911
GREENLAND TURBOT	CTAC 5,950 DAP 5,950 JVP 0 OTAC= 7,000 "RES" 1,050	TOTAL 3,317 DAP 3,316 JVP 1 REMAIN. 2,633	SABLEFISH (BER. SEA)	CTAC 2,294 DAP 2,294 JVP 0 OTAC= 2,700 "RES" 406	TOTAL 573 DAP 573 JVP 0 REMAIN. 1,721
ARROWTOOTH FLOUNDER	CTAC 8,533 DAP 8,500 JVP 33 OTAC= 10,000 "RES" 1,467	TOTAL 2,720 DAP 2,009 JVP 711 REMAIN. 5,813	SABLEFISH (AL. IS.)	CTAC 3,826 DAP 3,826 JVP 0 OTAC= 4,500 "RES" 675	TOTAL 322 DAP 322 JVP 0 REMAIN. 3,504
OTHER FLOUNDERS	CTAC 51,128 DAP 10,200 JVP 40,928 OTAC= 60,150 "RES" 9,023	TOTAL 24,958 DAP 5,892 JVP 19,066 REMAIN. 26,170	ATKA MACKEREL	CTAC 17,850 DAP 17,850 JVP 0 OTAC= 21,000 "RES" 3,150	TOTAL 1,107 DAP 1,107 JVP 0 REMAIN. 16,743
ROCK SOLE	CTAC 67,359 DAP 51,000 JVP 16,359 OTAC= 60,000 "RES" (7,359)	TOTAL 28,236 DAP 18,143 JVP 10,093 REMAIN. 39,123	SQUID	CTAC 425 DAP 425 JVP 0 OTAC= 500 "RES" 75	TOTAL 46 DAP 46 JVP 0 REMAIN. 379
PACIFIC COD	CTAC 199,975 DAP 192,950 JVP 7,025 OTAC= 227,000 "RES" 27,025	TOTAL 77,295 DAP 69,162 JVP 8,133 REMAIN. 122,680	OTHER SPECIES	CTAC 6,084 DAP 4,250 JVP 1,834 OTAC= 5,000 "RES" (1,084)	TOTAL 9,800 DAP 6,499 JVP 3,301 REMAIN. (3,716)
POP (BERING SEA)	CTAC 5,355 DAP 5,355 JVP 0 OTAC= 6,300 "RES" 945	TOTAL 205 DAP 205 JVP 0 REMAIN. 5,150	TOTAL	CTAC 1,747,702 DAP 1,495,320 JVP 252,382 RESERVE 252,300	TOTAL 599,722 DAP 470,412 JVP 129,310 REMAIN. 1,147,980

CTAC = CURRENT TOTAL ALLOWABLE CATCH
TOTAL = TOTAL CATCH: DAP + JVP
"RES" = OTAC (ORIGINAL TAC) MINUS CTAC
REMAIN = CTAC - TOTAL CATCH

REMAINDER PLUS RESERVE GIVES TOTAL REMAINDER: 1,400,280

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GULF OF ALASKA
DAP CATCHES THROUGH:

FINAL APPORTIONMENTS AND FINAL CATCHES
31-Dec

SPECIES	CURRENT APPORT.	CURRENT CATCHES	SPECIES	CURRENT APPORT.	CURRENT CATCHES
POLLOCK (WESTERN/CENTRAL)	TAC 72,000 DAP 72,000 JVP 0 RES 0	TOTAL 72,297 DAP 72,297 JVP 0 REMAIN. (297)	OTHER ROCKFISH (WESTERN)	TAC 5,774 DAP 5,774 JVP 0 RES 0	TOTAL 4,339 DAP 4,339 JVP 0 REMAIN. 1,435
ABC= 60,000			ABC= 5,774		
POLLOCK (EASTERN)	TAC 200 DAP 200 JVP 0 RES 0	TOTAL 96 DAP 96 JVP 0 REMAIN. 104	OTHER ROCKFISH (CENTRAL)	TAC 8,452 DAP 8,452 JVP 0 RES 0	TOTAL 3,315 DAP 3,315 JVP 0 REMAIN. 137
ABC= 3,400			ABC= 8,452		
PACIFIC COD (WESTERN)	TAC 13,500 DAP 13,500 JVP 0 RES 0	TOTAL 13,833 DAP 13,833 JVP 0 REMAIN. (333)	OTHER ROCKFISH (EASTERN)	TAC 5,774 DAP 5,774 JVP 0 RES 0	TOTAL 6,348 DAP 5,348 JVP 0 REMAIN. (574)
ABC= 13,500			ABC= 5,774		
PACIFIC COD (CENTRAL)	TAC 52,000 DAP 52,000 JVP 0 RES 0	TOTAL 27,649 DAP 27,649 JVP 0 REMAIN. 24,351	PELAGIC SHELF ROCKFISH (WESTERN)	TAC 500 DAP 500 JVP 0 RES 0	TOTAL 113 DAP 113 JVP 0 REMAIN. 387
ABC= 52,000			ABC= 1,000		
PACIFIC COD (EASTERN)	TAC 5,700 DAP 5,700 JVP 0 RES 0	TOTAL 65 DAP 65 JVP 0 REMAIN. 5,635	PELAGIC SHELF ROCKFISH (CENTRAL)	TAC 2,400 DAP 2,400 JVP 0 RES 0	TOTAL 888 DAP 888 JVP 0 REMAIN. 1,512
ABC= 5,700			ABC= 4,800		
FLOUNDERS (WESTERN)	TAC 3,200 DAP 3,200 JVP 0 RES 0	TOTAL 825 DAP 825 JVP 0 REMAIN. 2,375	PELAGIC SHELF ROCKFISH (EASTERN)	TAC 400 DAP 400 JVP 0 RES 0	TOTAL 737 DAP 737 JVP 0 REMAIN. (337)
ABC= 111,500			ABC= 800		
FLOUNDERS (CENTRAL)	TAC 31,800 DAP 21,800 JVP 10,000 RES 0	TOTAL 9,871 DAP 9,871 JVP 0 REMAIN. 21,929	DEMERSAL SHELF ROCKFISH (SE OUTSIDE)	TAC 420 DAP 420 JVP 0 RES 0	TOTAL 412 DAP 412 JVP 0 REMAIN. 8
ABC= 384,300			ABC= N/A		
FLOUNDERS (EASTERN)	TAC 1,000 DAP 1,000 JVP 0 RES 0	TOTAL 972 DAP 972 JVP 0 REMAIN. 28	THORNYHEADS (GULF-WIDE)	TAC 3,800 DAP 3,800 JVP 0 RES 0	TOTAL 3,056 DAP 3,056 JVP 0 REMAIN. 744
ABC= 58,900			ABC= 3,800		
SABLEFISH (WESTERN)	TAC 3,770 DAP 3,770 JVP 0 RES 0	TOTAL 4,200 DAP 4,200 JVP 0 REMAIN. (430)	OTHER SPECIES	TAC 11,046 DAP 11,046 JVP 0 RES 0	TOTAL 1,675 DAP 1,675 JVP 0 REMAIN. 9,371
ABC= 4,900					
SABLEFISH (CENTRAL)	TAC 11,700 DAP 11,700 JVP 0 RES 0	TOTAL 12,245 DAP 12,245 JVP 0 REMAIN. (545)	TOTAL	TAC 243,966 DAP 233,966 JVP 10,000 RES 0	TOTAL 179,561 DAP 179,561 JVP 0 REMAIN. 54,405
ABC= 13,900			ABC= 750,600		
SABLEFISH (EASTERN)	TAC 10,530 DAP 10,530 JVP 0 RES 0	TOTAL 11,625 DAP 11,625 JVP 0 REMAIN. (1,095)			
ABC= 12,100					

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BERING SEA AND ALEUTIANS:
DAP CATCHES THROUGH:

FINAL APPORTIONMENTS AND FINAL CATCHES
31-Dec

JVP CATCHES THROUGH: 31-Dec

SPECIES	CURRENT APPORT.	CURRENT CATCHES	SPECIES	CURRENT APPORT.	CURRENT CATCHES
POLLOCK (BER. SEA)	CTAC 1,340,000 DAP 1,045,585 ABC= 1,340,000 OTAC= 1,340,000	TOTAL 1,291,944 DAP 1,014,758 JVP 277,186 REMAIN. 48,056	POP (AL. IS.)	CTAC 5,100 DAP 5,100 JVP 0 OTAC= 6,000	TOTAL 3,788 DAP 3,788 JVP 0 REMAIN. 1,312
POLLOCK (AL. IS.)	CTAC 26,950 DAP 2,932 ABC= 117,900 OTAC= 45,000	TOTAL 16,416 DAP 5,847 JVP 10,569 REMAIN. 10,534	ROCKFISH (BER. SEA)	CTAC 340 DAP 340 JVP 0 OTAC= 400	TOTAL 291 DAP 281 JVP 10 REMAIN. 49
YELLOWFIN SOLE	CTAC 193,952 DAP 21,274 ABC= 241,000 OTAC= 182,675	TOTAL 156,437 DAP 5,327 JVP 151,110 REMAIN. 37,515	ROCKFISH (AL. IS.)	CTAC 935 DAP 935 JVP 0 OTAC= 1,100	TOTAL 515 DAP 515 JVP 0 REMAIN. 420
GREENLAND TURBOT	CTAC 8,000 DAP 7,800 ABC= 20,300 OTAC= 6,000	TOTAL 9,000 DAP 8,950 JVP 50 REMAIN. (1,000)	SABLEFISH (BER. SEA)	CTAC 2,800 DAP 2,800 JVP 0 OTAC= 2,800	TOTAL 1,257 DAP 1,254 JVP 3 REMAIN. 1,543
ARROWTOOTH FLOUNDER	CTAC 7,800 DAP 5,100 ABC= 163,700 OTAC= 5,531	TOTAL 7,245 DAP 4,980 JVP 2,265 REMAIN. 555	SABLEFISH (AL. IS.)	CTAC 3,400 DAP 3,400 JVP 0 OTAC= 3,400	TOTAL 3,249 DAP 3,249 JVP 0 REMAIN.
OTHER FLOUNDERS	CTAC 63,906 DAP 8,906 ABC= 155,900 OTAC= 75,183	TOTAL 28,796 DAP 9,965 JVP 18,831 REMAIN. 35,110	ATKA MACKEREL	CTAC 20,285 DAP 20,285 JVP 0 OTAC= 20,285	TOTAL 18,761 DAP 18,704 JVP 57 REMAIN. 1,524
ROCK SOLE	CTAC 77,148 DAP 42,543 ABC= 17,100 OTAC= 90,762	TOTAL 54,384 DAP 33,625 JVP 20,759 REMAIN. 22,764	SQUID	CTAC 925 DAP 750 JVP 175 OTAC= 1,000	TOTAL 436 DAP 329 JVP 107 REMAIN. 489
PACIFIC COD	CTAC 226,079 DAP 158,613 ABC= 370,600 OTAC= 230,681	TOTAL 170,929 DAP 126,505 JVP 44,424 REMAIN. 55,150	OTHER SPECIES	CTAC 15,774 DAP 10,774 JVP 5,000 OTAC= 10,000	TOTAL 8,845 DAP 4,149 JVP 4,696 REMAIN. 6,929
POP (BERING SEA)	CTAC 4,250 DAP 4,250 ABC= 6,000 OTAC= 5,000	TOTAL 3,270 DAP 3,230 JVP 40 REMAIN. 980	TOTAL	CTAC 1,997,644 DAP 1,341,387 JVP 656,257 RESERVE 2,356	TOTAL 1,775,563 DAP 1,245,456 JVP 530,105 REMAIN. 222,081

CTAC = CURRENT TOTAL ALLOWABLE CATCH
TOTAL = TOTAL CATCH: DAP + JVP

REMAINDER PLUS RESERVE GIVES TOTAL REMAINDER:

224,437