Northwest and Alaska Fisheries Center

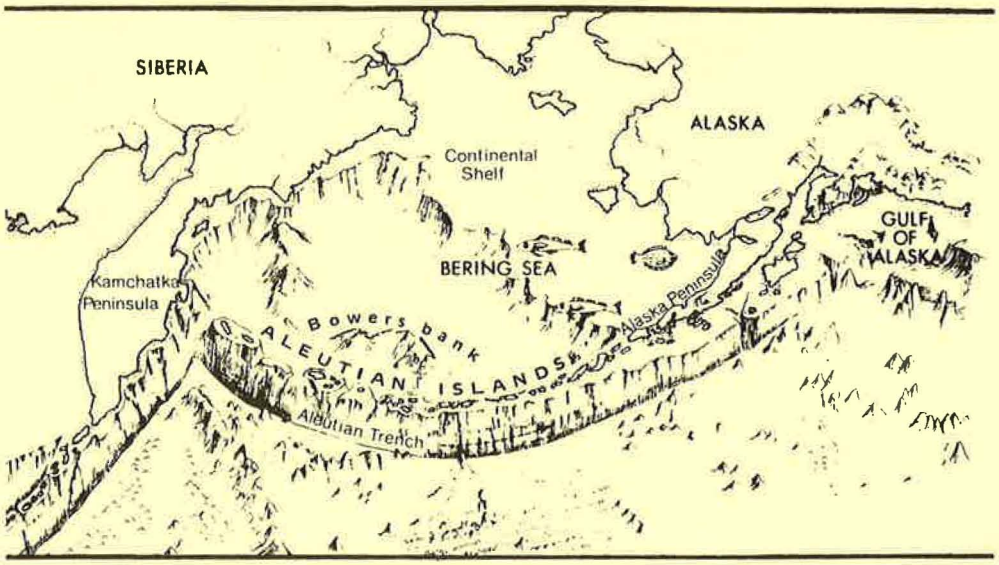
National Marine Fisheries Service

U.S. DEPARTMENT OF COMMERCE

NWAFC PROCESSED REPORT 87-16

Fishing Log: U.S. - Japan Cooperative Bottom Trawl Survey of the Groundfish Resources of the Aleutian Islands, July-October, 1983

October 1987



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Fishing Log: U.S.-Japan Cooperative Bottom Trawl Survey of the Groundfish Resources of the Aleutian Islands, July-October, 1983

by

Kiyoshi Wakabayashi, Ronald Payne,

Kazuyuki Teshima, and Thomas Wilderbuer

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INTRODUCTION

The Northwest and Alaska Fisheries Center, Seattle, Washington, National Marine Fisheries Service, and the Far Seas Fisheries Research Laboratory, Shimizu, Japan, Fisheries Agency of Japan, conducted the second comprehensive resource assessment survey of the Aleutian Islands during June - November 1983. Two NOAA research vessels, the Miller Freeman and the Chapman, and the Japanese stern trawler Daito Maru no. 38, used otter trawls to survey the continental shelf and upper slope from Stalemate Bank west of Attu Island to Unimak Pass including Bowers Ridge (Figure 1).

The primary objectives were to: (1) define the distribution and relative abundance of the principal groundfish species (2) estimate the absolute abundance of the principal groundfish species, (3) collect biological data sets on commercially important species, (4) compare the fishing power of the Miller Freeman using the Noreastern trawl with the Daito Maru No. 38 using a Japanese commercial flatfish trawl, (5) tag trawl caught Pacific cod and Atka mackerel to study movements and growth and, (6) to obtain temperature profiles of the water at selected sampling sites.

The NOAA vessel Miller Freeman is a 65.5 m (215 ft.) stern trawler powered by a single 2150 hp main engine and the Chapman a 38.7 m (127 ft.) stern trawler powered by a 1091 hp. main engine. The Daito Maru No. 38 is a land-based Hokuten stern trawler 51.8 m (170 ft.) in length and powered by a 3800 hp. main engine.

All bottom trawling by the U.S. research vessels was conducted with the Noreastern trawl with roller gear (Figure 2). The headrope and footrope are 27.4 m and 32 m (90/105 ft.) respectively, and the effective horizontal path width was 17.98 m (59 ft.). The Noreastern trawl was fished with 1.8 x 2.7 m (6 x 8.5 ft.) otter boards, triple 54.9 m (180 ft.) dandylines and the codend was lined with 3.8 cm (1.5 in.) stretched mesh nylon webbing.

The Japanese commercial flatfish trawl used by the Daito Maru No. 38 during the survey had a headrope and footrope of 45 m and 58 m (147 and 190 ft. long) respectively, and a vertical opening of 5.0 m (16.4 ft.) and a horizontal opening of 28.3 m (92.8 ft.) (Figure 3). The trawl was equipped with roller gear constructed primarily of 53 cm (20.97 in.) and 35 cm (13.78 in.) gum discs (Figure 4). It was fished with 80 m (262.4 ft.) dandylines and 2.25 m (7.3 ft.) x 3.45 m (11.3 ft.) otter boards weighting 2.4 tons in water.

The Miller Freeman, Chapman, and Daito Maru No. 38 attempted 99, 63 and 263 demersal trawl stations and successfully completed 86, 44 and 250 respectively (Table 1).

Section B contains the geographical location of the trawl stations. Section C contains a listing of the haul and catch information. Section D contains a listing, by species, of the catch rates (lb/hr) in descending order, average weight per fish (lb), and the depth of trawl.

Further inquiries for information regarding this survey should be directed to:

Dr. Gary Stauffer, Division Director
Resource Assessment and Conservation Engineering
Northwest and Alaska Fisheries Center
National Marine Fisheries Center
7600 Sand Point Way N.E.
Seattle, WA 98115

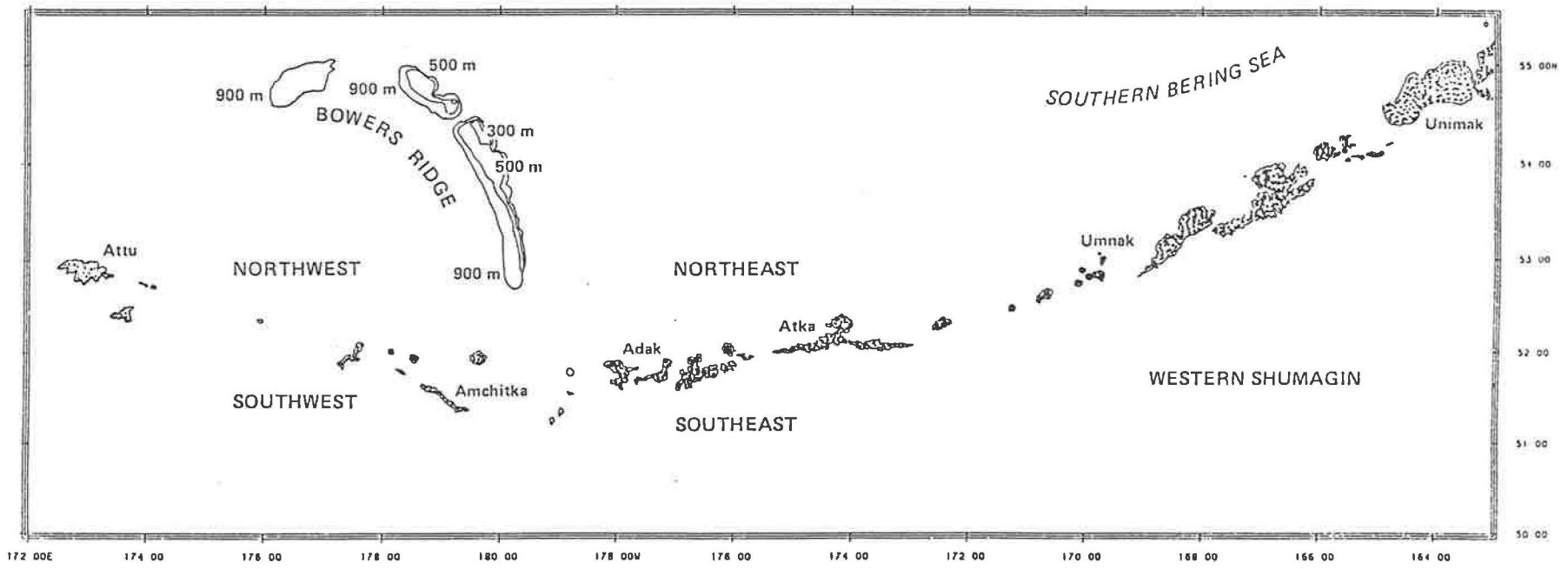


Figure 1.--Area of the 1983 cooperative U.S.-Japan survey of groundfish resources of the Aleutian Islands region.

Table 1.--Number of successful trawl sampling stations by subarea, depth interval, and nation during the 1983 cooperative U.S.-Japan Aleutian Islands groundfish resource assessment survey.

Area	Subarea	Depth Zone (m) 1-100 U.S.	1-100 Japan	101-200 U.S.	101-200 Japan	201-300 U.S.	201-300 Japan	301-500 U.S.	301-500 Japan	501-900 U.S.	501-900 Japan	Total U.S.	Total Japan
Aleutian													
	Southwest	0	4	8	28	7	16	4	9	3	11	22	68
	Southeast	1	1	7	13	8	14	4	8	2	8	22	44
	Northwest	1	4	2	11	2	11	1	6	3	16	9	48
	Northeast	6	2	28	18	11	11	2	8	2	15	49	54
	Bowers Ridge	--	--	0	2	0	2	0	5	0	11	0	20
Bering Sea													
	Southern	11	2	10	4	4	4	0	3	0	3	25	16
	Total	19	13	55	76	32	58	11	39	10	64	127	250

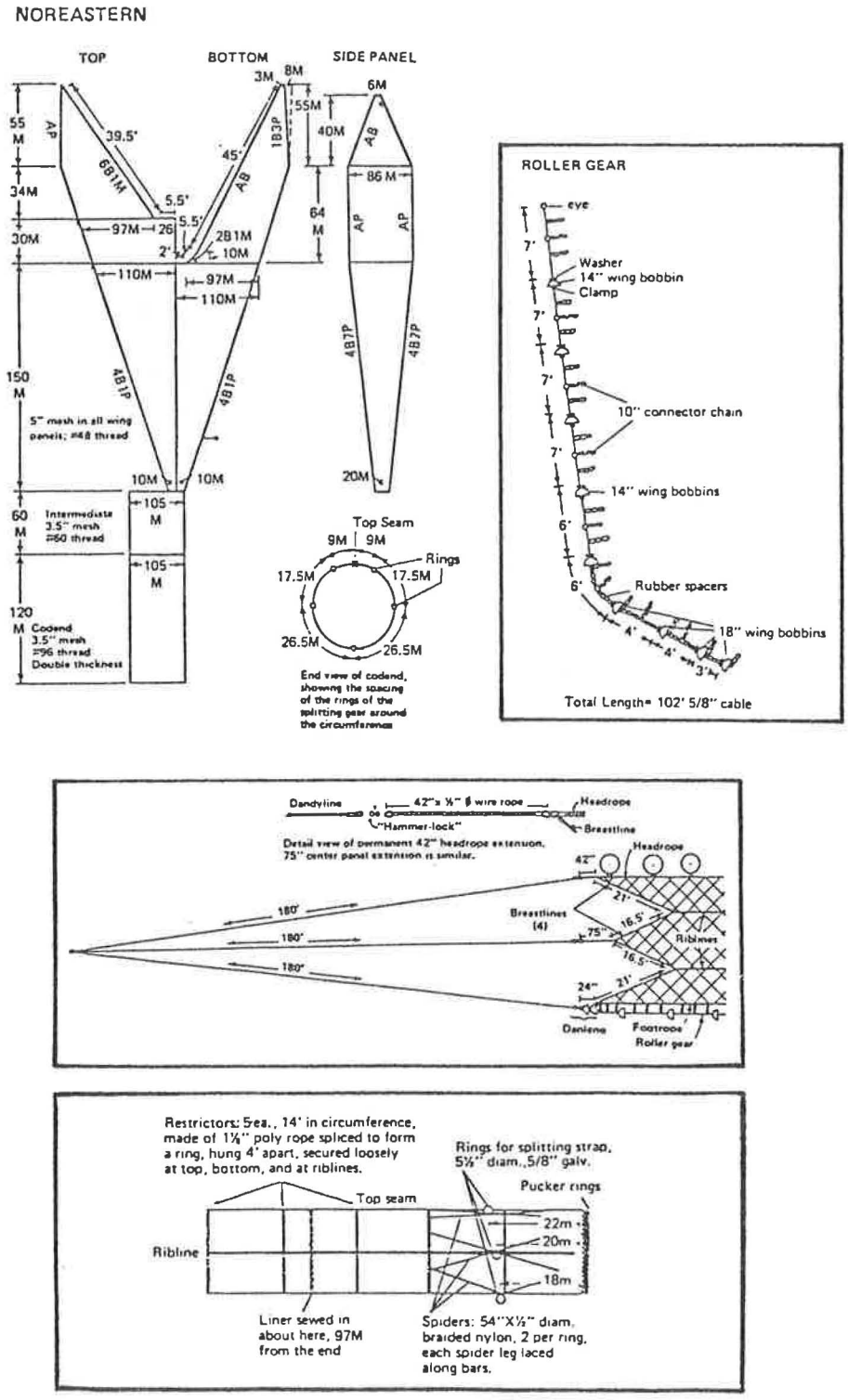


Figure 2.--Schematic diagram of the 27.4/32 m Noreastern trawl used in the 1983 cooperative U.S.-Japan Aleutian Islands survey by the Chapman and the Miller Freeman.

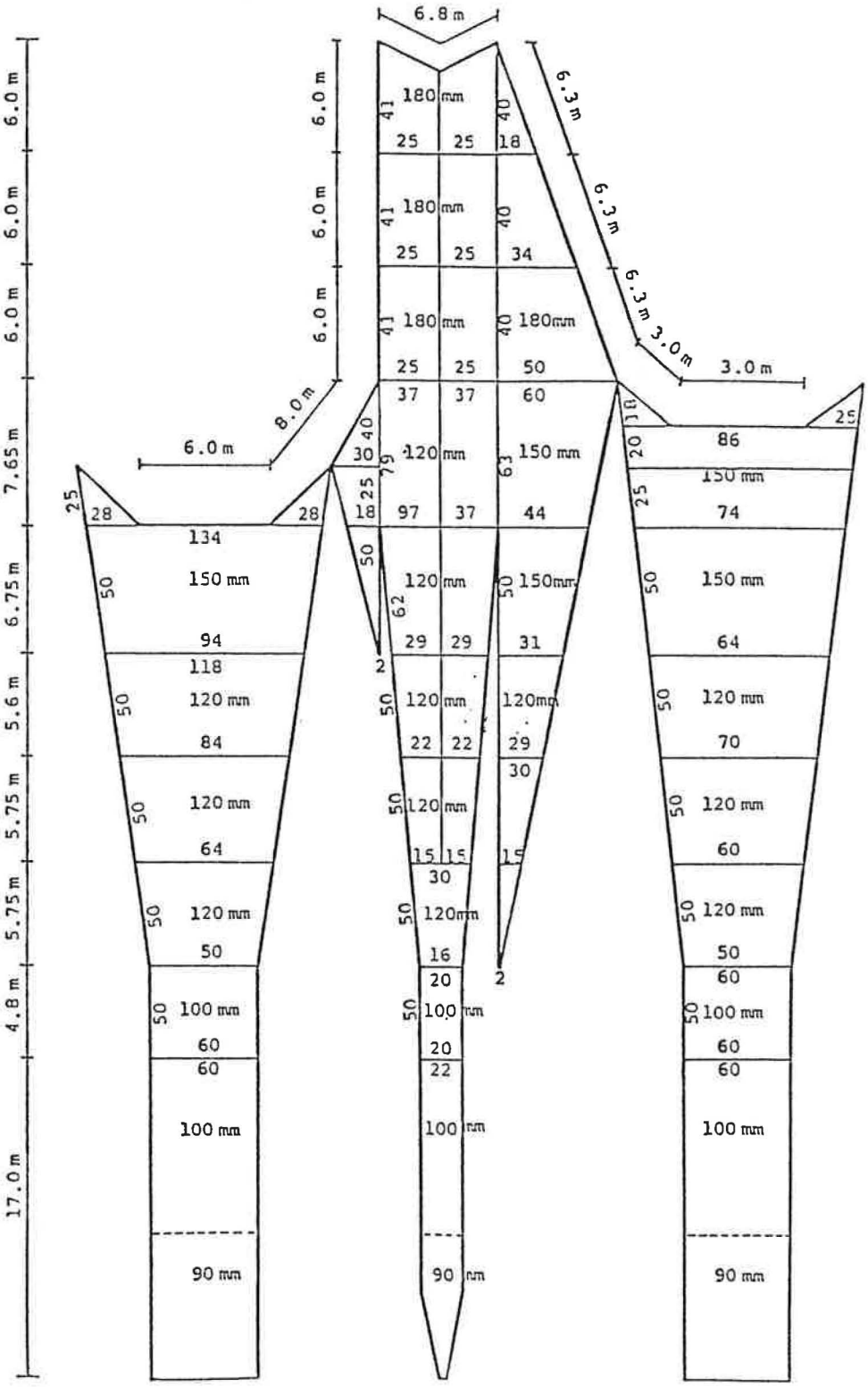


Figure 3.--Schematic diagram of the 45/58 m trawl used during the 1983 cooperative U.S.-Japan Aleutian Islands survey by the Daito Maru No. 38.

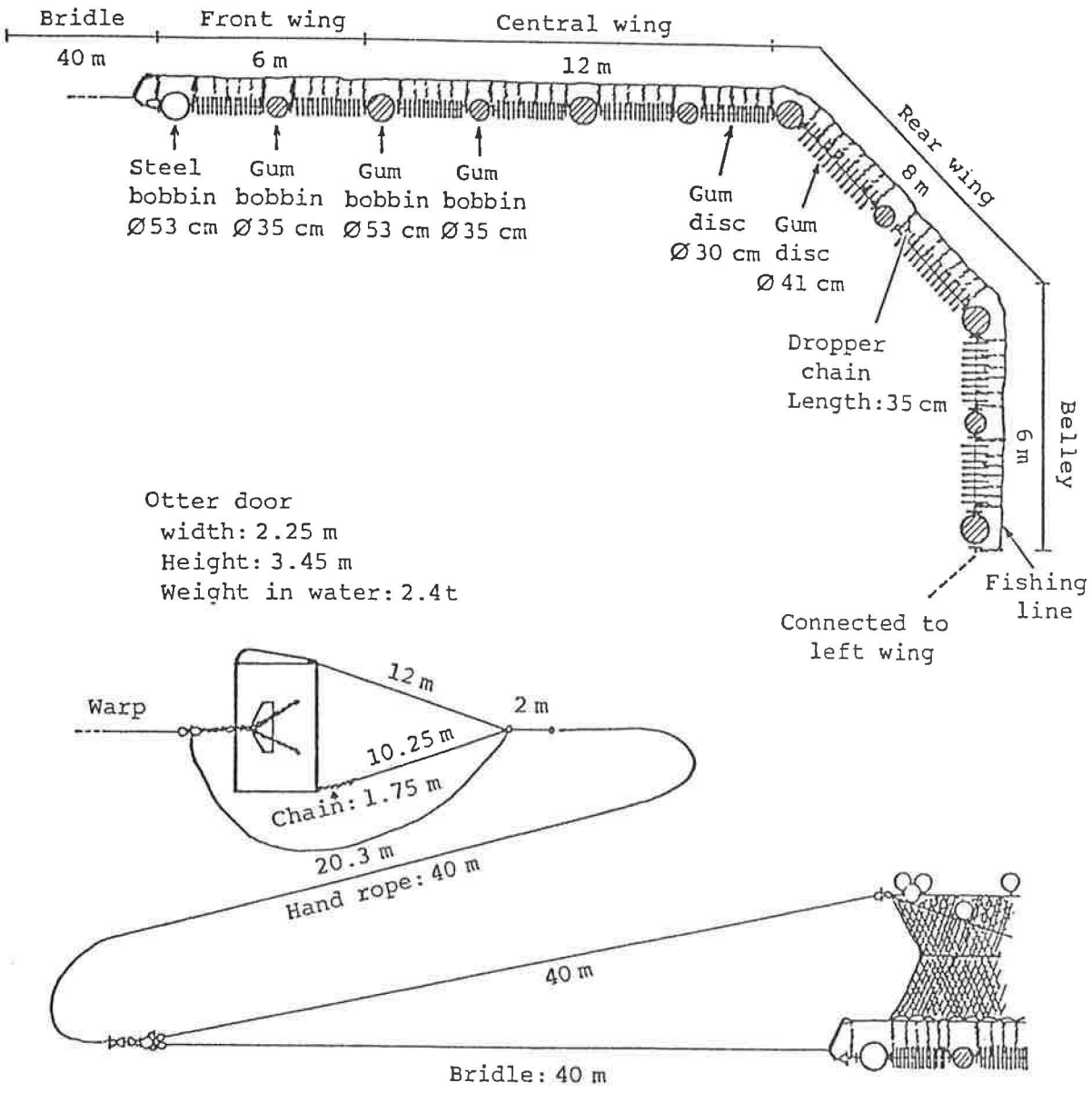


Figure 4.--Schematic diagram of the roller gear, otter doors, and trawl rigging used during the 1983 cooperative U.S.-Japan trawl survey by the Daito Maru No. 38.

Section A

Geographical Location of Trawl stations

for NOAA vessels MILLER FREEMAN, CHAPMAN,

and R/V DAITO MARU NO. 38.

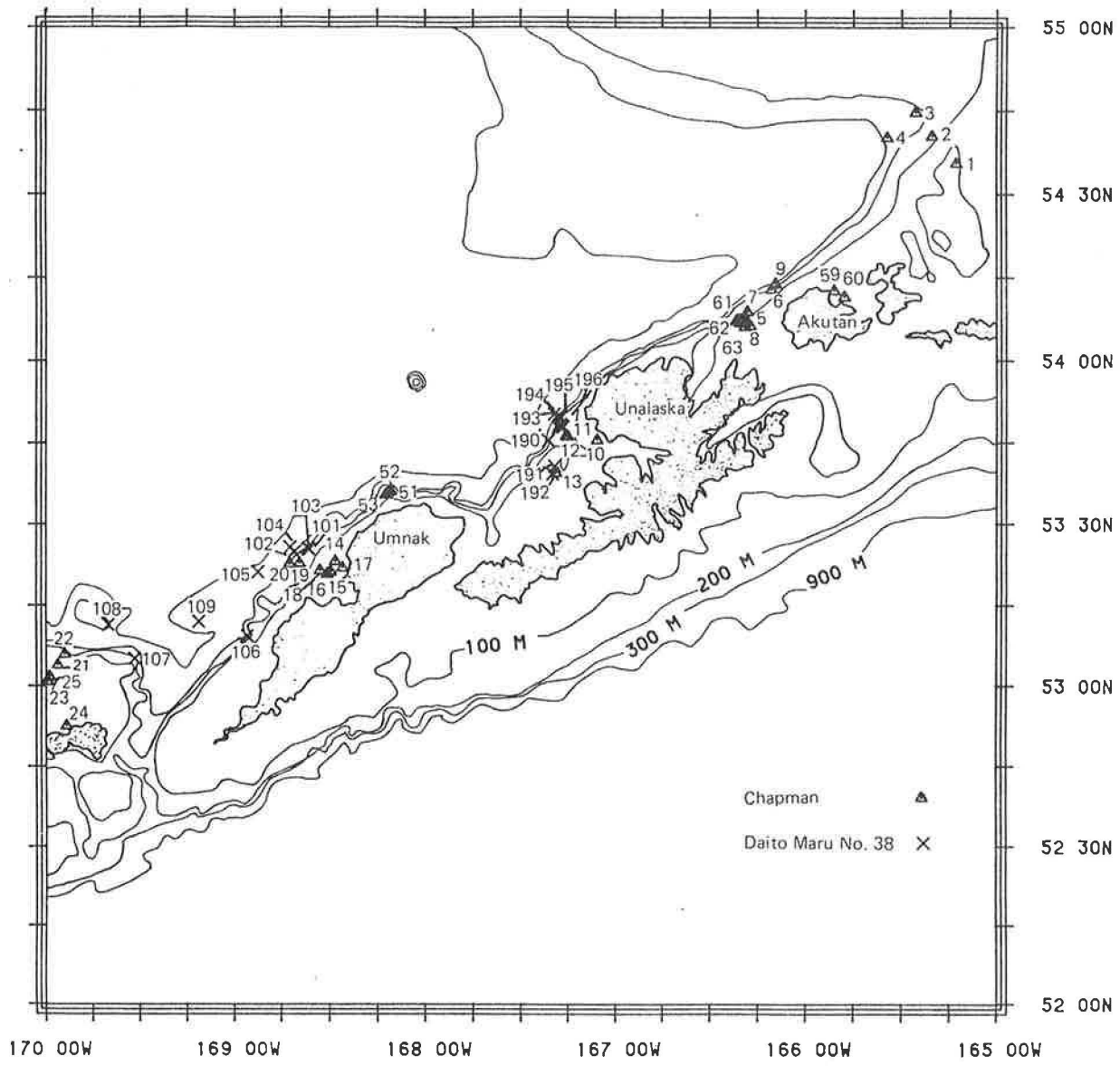


Figure 5.--Trawl stations completed by the NOAA vessel Chapman and R/V Daito Maru No. 38 from Akutan I to Chuginadak I.

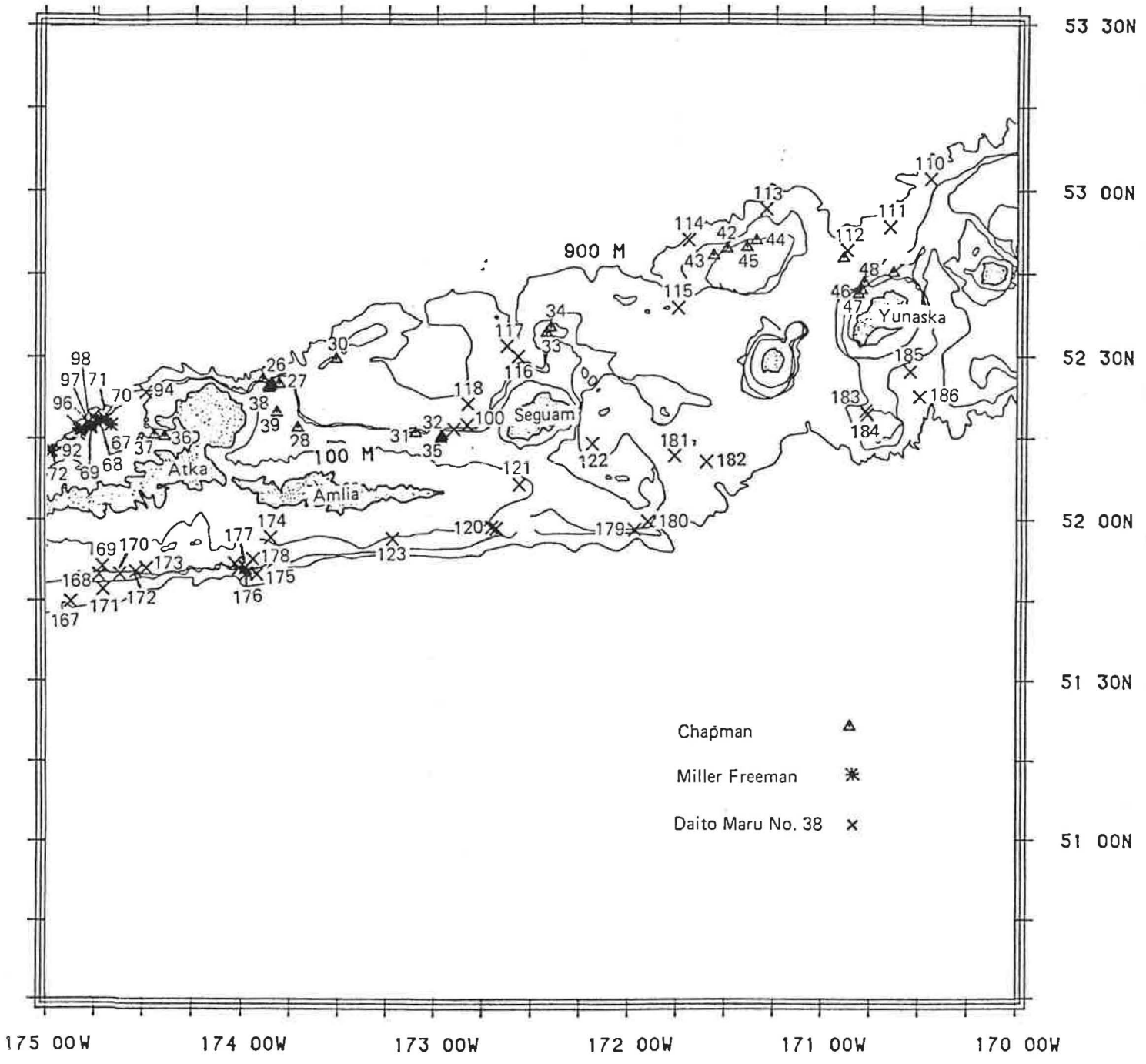


Figure 6.--Trawl stations completed by the NOAA vessels Chapman, Miller Freeman and R/V Daito Maru No. 38 from Yunaska I to Atka I.

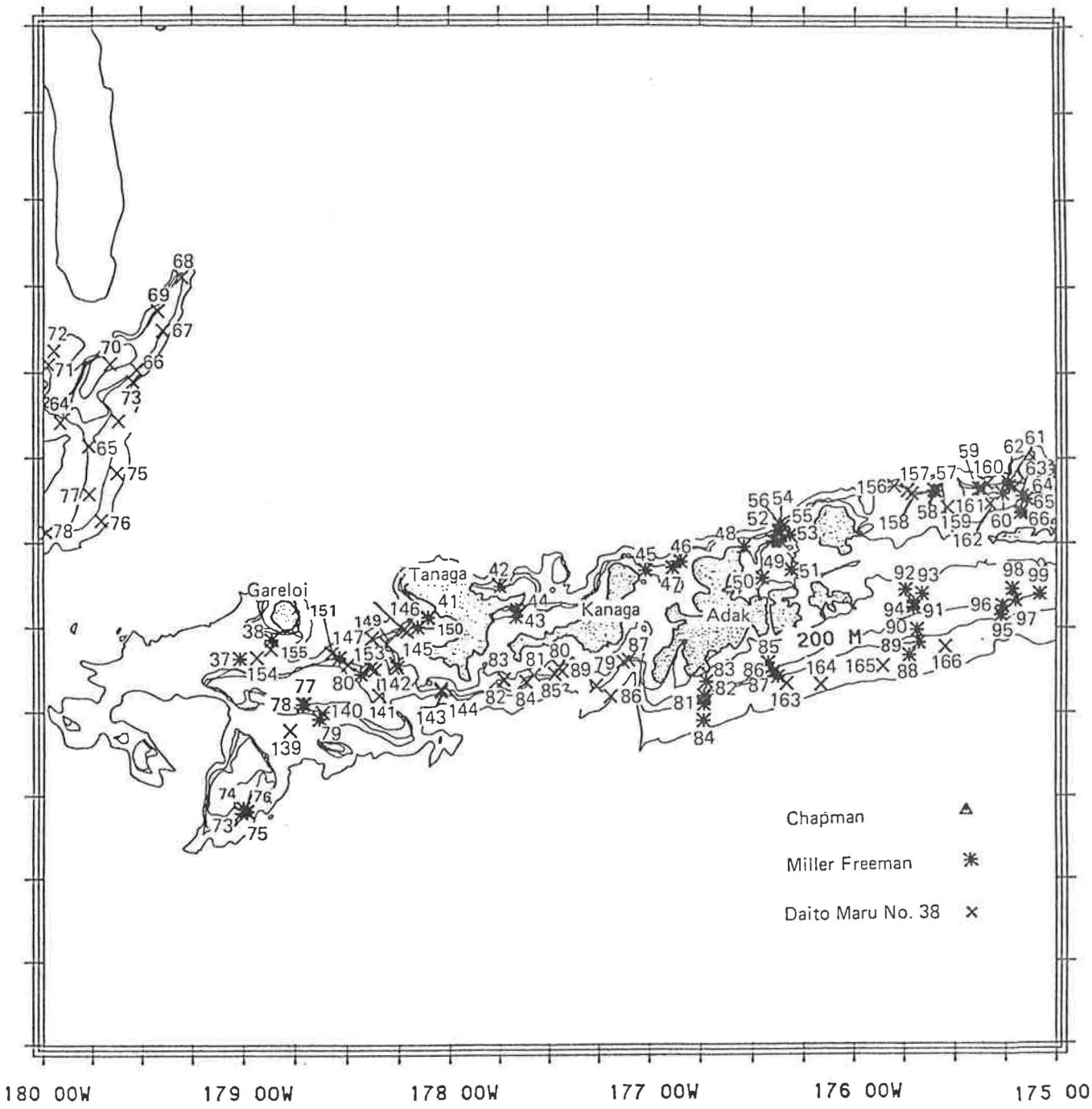


Figure 7.--Trawl stations completed by the NOAA vessels Chapman, Miller Freeman and R/V Daito Maru No. 38 from Atka I to Gareloi I including northeastern Petral Bank.

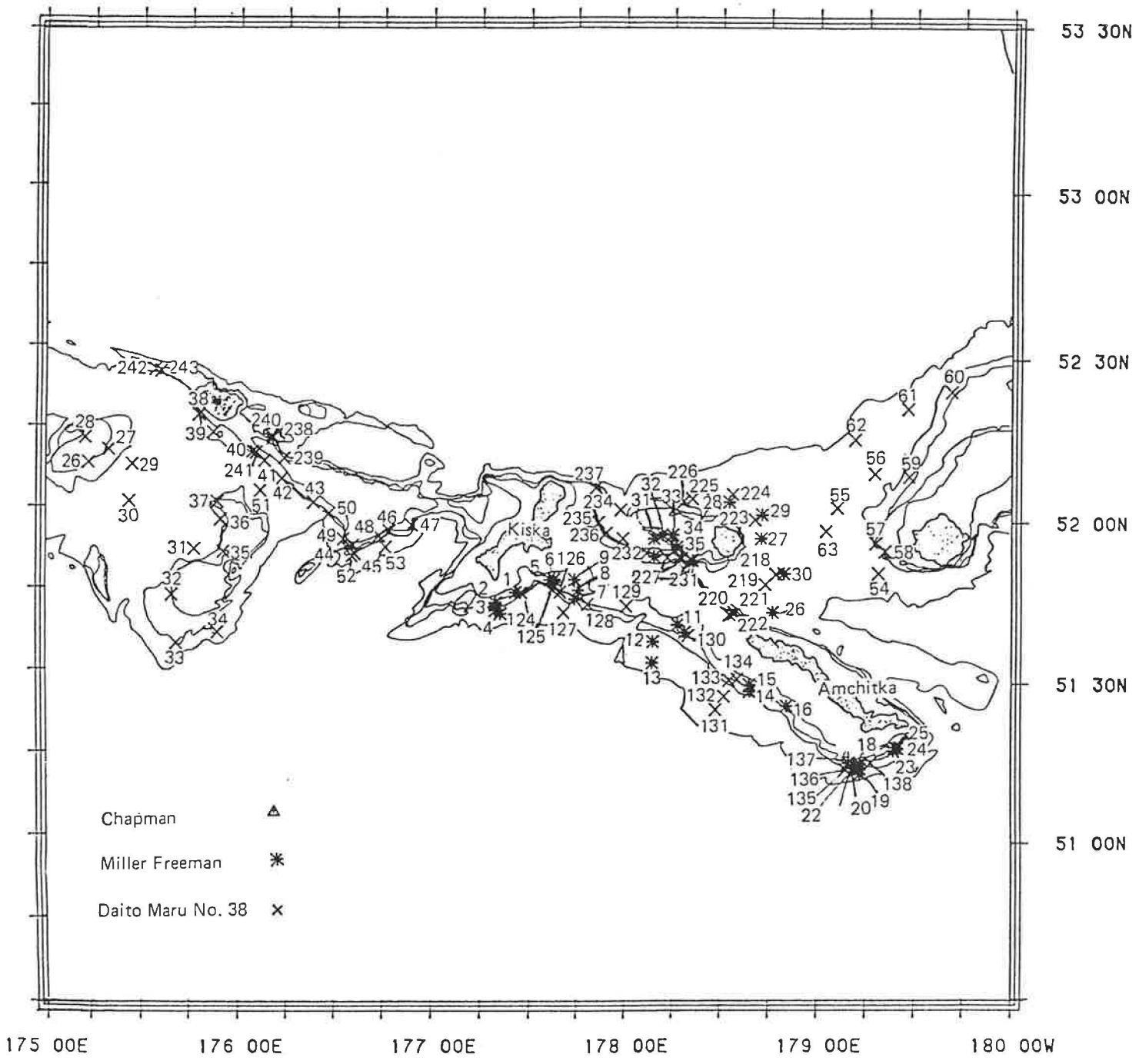


Figure 8.--Trawl stations completed by the NOAA vessels Chapman, Miller Freeman and R/V Daito Maru No. 38 from Amchitka I to Buldir I including southern Petral Bank.

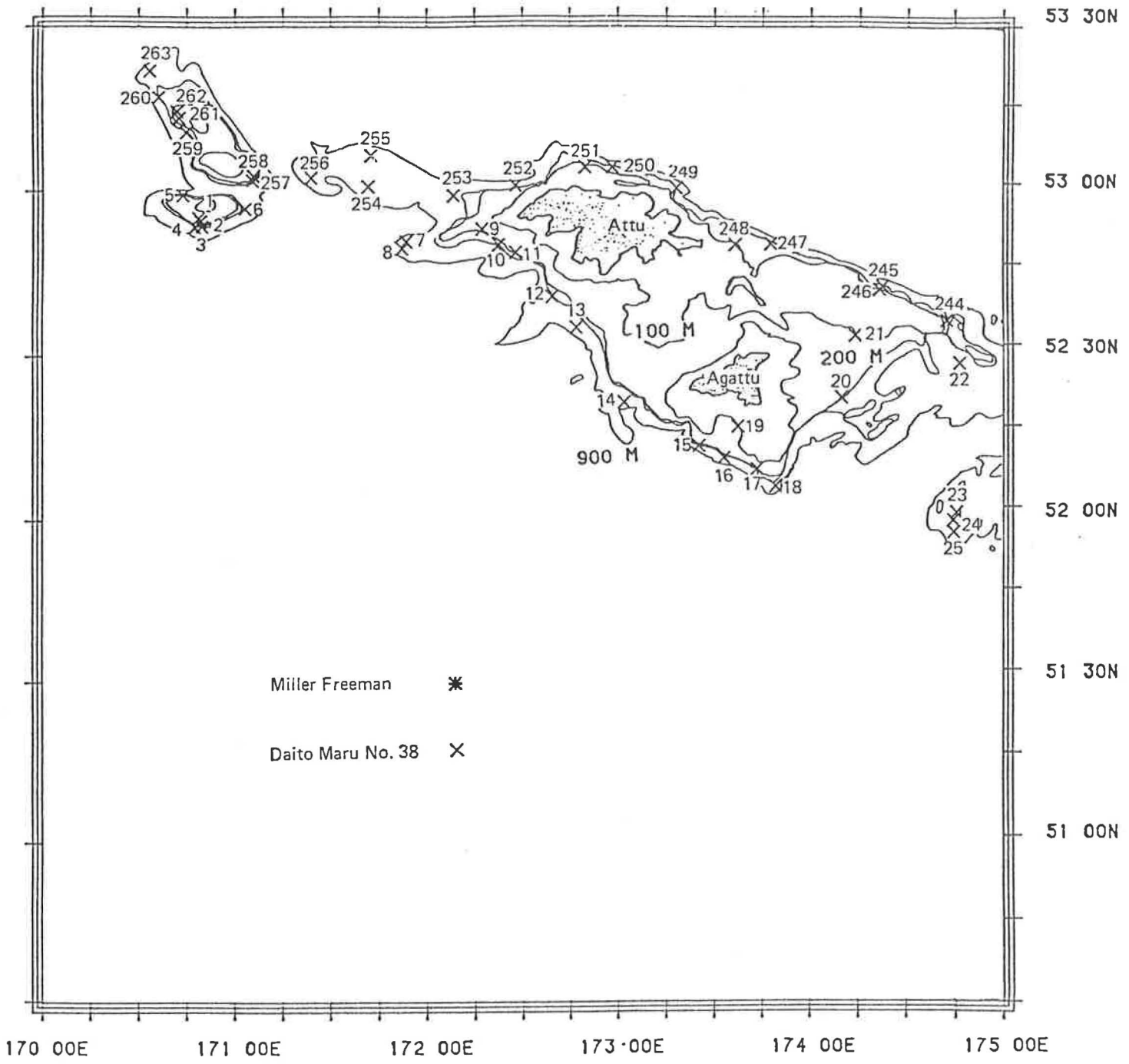


Figure 9.--Trawl stations completed by the NOAA vessel Miller Freeman and R/V Daito Maru No. 38 from Agattu I to Stalemate Bank.

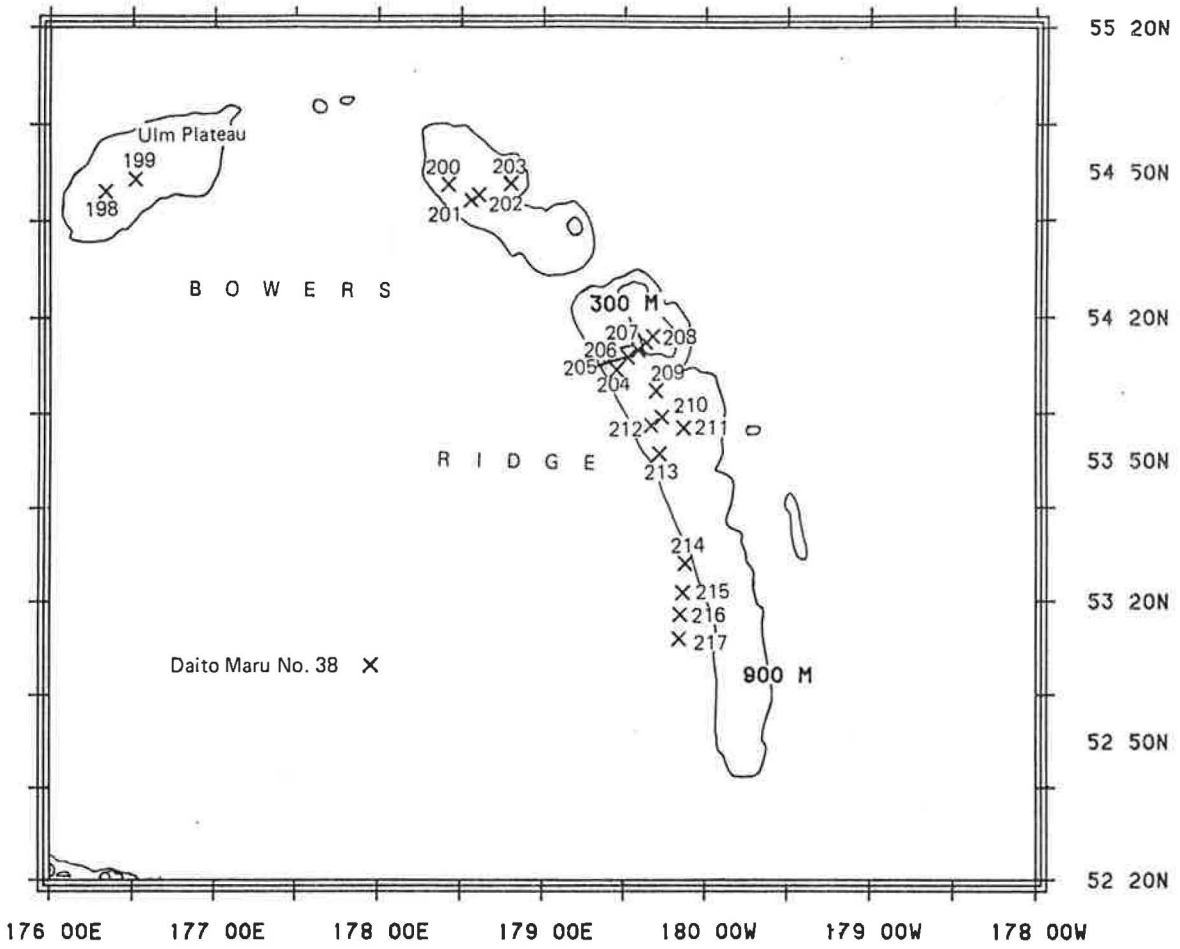


Figure 10.--Trawl stations completed by the R/V Daito Maru No. 38 on Bowers Ridge.

SECTION B

Pertinent Position and Catch Data

for NOAA vessels Miller Freeman, Chapman,

and R/V Daito Maru No. 38.

Symbols and codes

Gear depth		fathoms
Duration		tenths of an hour with 1/2 hour (0.5) standard
Distance fished		nautical miles
Performance	0	satisfactory performance
	1	satisfactory performance--net hung up or torn (trawl was hauled early, damage to net and fish loss was determined to be minimal).
	5	unsatisfactory performance
	6	unsatisfactory performance, hung up
	7	unsatisfactory performance, ripped net
Gear	161	90/105' Noreastern trawl with roller gear
	716	113/177' commercial bottomfish trawl
Catch		pounds/hour

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/28/83	7/28/83	7/28/83	7/28/83	7/29/83	7/29/83	7/29/83	7/29/83	7/29/83	7/29/83	7/29/83
LATITUDE START	51 47.0	51 45.1	51 43.0	51 43.6	51 49.4	51 49.4	51 45.7	51 47.4	51 49.4	51 41.0	51 39.5
LONGITUDE START	177 25.3E	177 19.3E	177 20.8E	177 19.3E	177 37.7E	177 36.1E	177 44.2E	177 45.3E	177 44.2E	178 16.5E	178 18.7E
LATITUDE END	51 47.4	51 45.5	51 42.7	51 43.2	0 0.0	51 49.3	51 46.2	51 47.7	0 0.0	51 41.0	51 39.2
LONGITUDE END	177 25.6E	177 21.5E	177 18.6E	177 17.1E	0 0.0	177 35.3E	177 42.0E	177 43.0E	0 0.0	178 18.3E	178 20.2E
LORAN START	12589.80	12549.50	12555.80	12547.60		12663.90	12709.60	12719.20	12716.10	12906.00	12917.30
LORAN START	34572.50	34567.40	34572.40	34569.70		34582.00	34597.60	34596.50	34592.20	34644.50	34649.20
LORAN END	12593.00	12564.40	12541.50	12532.90		12658.90	12696.10	12705.20		12917.60	12926.30
LORAN END	34572.80	34569.60	34570.20	34567.60		34581.20	34594.10	34593.10		34646.60	34651.50
GEAR DEPTH	76	109	308	206	0	75	135	83	71	71	115
DURATION IN HOURS	0.12	0.50	0.50	0.50	0.00	0.16	0.50	0.50	0.00	0.50	0.50
DISTANCE FISHED	0.32	1.45	1.40	1.44	0.00	0.47	1.48	1.47	0.00	1.13	1.30
PERFORMANCE / GEAR	7 /160	0 /160	0 /160	0 /160	5 /160	1 /160	0 /160	0 /160	5 /160	0 /160	0 /160
POLLOCK	0.0	9446.2	0.0	2.2	0.0	1913.1	390.0	6.0	0.0	0.0	0.0
PACIFIC COD	250.8	16.0	0.0	0.0	0.0	300.0	8.0	179.0	0.0	113.0	32.0
PAC OCEAN PERCH	92.5	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	8.3	50.0	0.0	0.0	0.0	12.5	0.0	1.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	34.0	42.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	16.7	0.0	0.0	130.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	2.2	24.2	0.0	3.8	4.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	10.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.8
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	9.2	4.2	0.0	0.4	0.0	12.5	1.0	10.0	0.0	49.0	12.8
OTHER ROUNDFISH	0.0	0.2	0.6	6.0	0.0	0.6	9.4	0.2	0.0	0.0	0.0
TOTAL ROUNDFISH	377.5	9516.6	46.8	233.0	0.0	2242.5	423.4	207.2	0.0	162.0	45.5
ARROWTOOTH FL	0.0	32.2	0.0	40.0	0.0	18.8	15.0	24.0	0.0	14.0	44.0
GREENLAND TURBOT	0.0	0.0	32.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	11.0	15.0	0.0	4.0	0.0
ROCK SOLE	0.0	196.0	0.0	0.0	0.0	237.5	757.0	377.0	0.0	1009.0	144.0
REX SOLE	0.0	0.0	0.0	4.0	0.0	0.0	73.8	0.0	0.0	0.0	0.4
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	175.0	0.0	0.0	0.0	0.0	0.0	23.8	136.4	0.0	0.0	44.0
OTHER FLATFISH	0.0	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	175.0	284.2	32.0	74.0	0.0	256.3	880.6	552.4	0.0	1027.0	232.4
SKATES	0.0	0.0	0.0	0.2	0.0	0.0	27.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	0.2	0.0	0.0	27.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4
RED KING CRAB	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	10.2	0.2	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	12.0	10.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
OTHER INVERTS	176.7	2.0	6.2	26.2	0.0	288.1	8.0	40.0	0.0	12.0	148.4
TOTAL INVERTS	176.7	12.2	18.4	70.2	0.0	288.1	11.4	40.0	0.0	12.0	148.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	729.2	9813.0	97.2	377.4	0.0	2786.9	1342.4	799.6	0.0	1201.0	426.8

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/29/83	7/30/83	7/30/83	7/30/83	7/30/83	7/30/83	7/30/83	7/30/83	7/31/83	7/31/83	7/31/83
LATITUDE START	51 37.8	51 33.9	51 28.5	51 29.8	51 25.8	51 15.1	51 14.9	51 14.5	51 14.1	51 14.1	51 13.9
LONGITUDE START	178 8.8E	178 8.6E	178 39.1E	178 39.0E	178 50.5E	179 9.8E	179 13.3E	179 12.1E	179 12.3E	179 12.4E	179 13.3E
LATITUDE END	51 37.3	51 33.6	51 28.4	51 29.1	51 26.6	51 15.2	51 14.8	51 14.7	51 14.3	51 14.3	51 12.7
LONGITUDE END	178 11.1E	178 10.5E	178 40.2E	178 41.1E	178 48.7E	179 7.3E	179 10.8E	179 9.8E	179 12.0E	179 10.3E	179 11.1E
LORAN START	12851.20	12842.80	13024.40	13026.20	13089.80	13188.10	13209.20	13201.30	13201.80	13202.30	13205.50
LORAN START	34639.40	34644.60	34688.70	34686.90	34705.70	34741.30	34745.50	34744.60	34745.40	34745.40	34747.70
LORAN END	12864.80	12854.40	13030.80	13037.90	13080.50	13172.90	13194.10	13187.60	13199.90	13189.60	13191.30
LORAN END	34642.80	34647.10	34690.10	34690.20	34702.50	34738.20	34742.80	34741.80	34744.70	34742.70	34745.40
GEAR DEPTH	225	406	148	101	112	97	108	143	139	186	344
DURATION IN HOURS	0.50	0.50	0.25	0.50	0.50	0.50	0.50	0.50	0.08	0.50	0.50
DISTANCE FISHED	1.49	1.19	0.67	1.44	1.40	1.59	1.54	1.44	0.33	1.36	1.44
PERFORMANCE / GEAR	1 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	1 /160	0 /160	0 /160
POLLOCK	0.0	0.0	228.0	1652.0	2244.0	17968.0	795.8	1008.0	93.8	2.6	15.0
PACIFIC COD	0.0	0.0	266.0	94.0	234.0	176.0	2680.0	117.0	43.8	7.0	0.0
PAC OCEAN PERCH	0.0	0.0	0.0	1.0	20.0	4624.0	72.0	30.0	6.3	8.6	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	2.0	96.0	106.0	5.0	0.0	4.6	0.0
SHORTRAKER RKFH	87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	79.0
ROUGHEYE RKFH	30.0	0.0	20.0	0.0	0.0	0.0	5.0	57.0	193.8	130.2	0.0
SHORTSPINE TH	3.0	10.0	30.0	0.0	4.0	0.0	0.0	0.0	128.8	32.0	44.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	14.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	7.0	186.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	218.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	496.0
SCULPINS	0.0	0.0	192.0	28.8	108.2	64.0	10.6	56.0	176.3	111.0	1.0
OTHER ROUNDFISH	1.0	73.6	12.0	0.0	0.0	0.0	10.0	0.0	0.0	0.2	11.4
TOTAL ROUNDFISH	135.0	326.6	748.0	1775.8	2612.2	22928.0	3679.4	1273.0	668.8	321.2	831.4
ARROWTOOTH FL	0.0	10.0	0.0	10.0	24.0	0.0	90.0	127.0	312.5	79.0	101.0
GREENLAND TURBOT	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.2	0.0	256.0	95.0	18.0	6.3	0.0	0.0
REX SOLE	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	364.0	75.2	395.0	96.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	44.0	10.0	0.0	10.2	24.0	280.0	549.0	220.2	713.8	175.0	101.0
SKATES	12.0	79.0	4.0	368.0	348.0	0.0	70.0	52.0	393.8	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	12.0	79.0	4.0	368.0	348.0	0.0	70.0	52.0	393.8	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
GOLDEN KING CRAB	0.0	4.0	0.0	0.0	130.0	0.0	0.0	0.0	18.8	23.6	0.0
SQUID	148.0	0.0	0.0	0.0	0.0	0.0	4.0	82.2	6.3	8.2	2.4
OTHER INVERTS	38.0	88.0	280.0	892.0	664.0	8.0	25.0	2.2	31.3	0.2	6.6
TOTAL INVERTS	204.0	92.0	280.0	892.0	794.0	8.0	29.0	84.4	56.3	32.0	15.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	395.0	507.6	1032.0	3046.0	3778.2	23216.0	4327.4	1629.6	1832.5	528.2	947.4

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	7/31/83	7/31/83	7/31/83	8/ 1/83	8/ 1/83	8/ 1/83	8/ 1/83	8/ 1/83	8/ 2/83	8/ 2/83	8/ 2/83
LATITUDE START	51 17.4	51 17.8	51 18.0	51 43.2	51 56.9	52 3.7	52 1.4	51 50.4	51 56.9	51 57.7	51 57.6
LONGITUDE START	179 23.6E	179 24.8E	179 24.1E	178 46.2E	178 42.6E	178 32.7E	178 42.9E	178 49.6E	178 9.2E	178 11.8E	178 15.0E
LATITUDE END	51 16.9	51 16.7	51 17.0	51 43.8	51 55.8	52 3.2	52 0.4	51 50.5	51 55.9	51 58.6	51 58.6
LONGITUDE END	179 23.2E	179 23.1E	179 22.2E	178 45.1E	178 41.7E	178 35.3E	178 44.3E	178 47.4E	178 10.9E	178 10.0E	178 13.1E
LORAN START	13277.10	13285.80	13281.20	13099.10	13108.70	13061.30	13121.20	13137.30	12892.60	12910.80	12931.90
LORAN START	34754.70	34755.60	34754.50	34677.90	34654.60	34632.20	34648.60	34672.30	34612.50	34614.70	34613.90
LORAN END	13273.80	13273.00	13267.60	13093.80	13099.70	13076.90	13128.30	13123.30	12901.50	12901.80	12921.80
LORAN END	34754.70	34754.90	34753.40	34676.00	34654.90	34636.40	34651.80	34669.50	34616.10	34611.10	34615.00
GEAR DEPTH	114	125	81	416	395	296	417	373	191	147	54
DURATION IN HOURS	0.17	0.50	0.50	0.33	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.49	1.54	1.53	0.85	1.25	1.71	1.31	1.36	1.44	1.44	1.55
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	5 /160	0 /160	5 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	2370.6	2089.0	4592.0	16.7	4.0	8.0	0.0	0.0	0.0	27265.0	0.0
PACIFIC COD	264.7	348.0	560.0	0.0	0.0	0.0	0.0	0.0	0.0	74.0	0.0
PAC OCEAN PERCH	117.6	124.0	28.8	0.0	0.0	0.0	0.0	0.0	0.0	64.0	0.0
NORTHERN RKFH	5.9	3.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	66.0	0.0	0.0	28.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	216.0	10.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	74.2	51.0	22.0	39.0	100.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	50.0	0.0	45.5	145.0	10.0	26.0	0.0	97.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	3165.2	1765.8	1654.0	1724.0	5478.0	0.0	0.0	0.0
SCULPINS	38.2	106.0	187.2	0.0	0.0	0.2	0.0	0.0	0.0	12.0	21.0
OTHER ROUNDFISH	0.0	30.0	3.2	16.7	67.2	5.8	85.8	306.8	3.0	0.6	0.0
TOTAL ROUNDFISH	2797.1	2750.0	5424.8	3318.2	2033.0	1766.0	1874.8	5884.8	344.0	27429.2	21.0
ARROWTOOTH FL	0.0	34.0	16.0	0.0	10.0	56.0	15.0	60.0	1715.0	26.0	0.0
GREENLAND TURBOT	0.0	34.0	0.0	0.0	60.0	244.0	141.0	0.0	619.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	135.3	50.0	720.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	50.0
REX SOLE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	201.0
OTHER FLATFISH	11.8	4.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0
TOTAL FLATFISH	147.1	123.0	776.0	0.0	70.0	300.0	156.0	60.0	2370.0	88.0	251.0
SKATES	170.6	52.0	0.0	0.0	3.0	6.0	0.0	0.0	62.0	4.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	170.6	52.0	0.0	0.0	3.0	6.0	0.0	0.0	62.0	4.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0
GOLDEN KING CRAB	123.5	252.0	1722.0	6.1	1.6	4.0	0.0	4.0	24.0	64.0	0.0
SQUID	8.8	10.0	0.0	0.0	0.0	2.0	0.0	0.0	234.0	92.0	0.0
OTHER INVERTS	214.7	12.0	168.0	0.0	4.0	0.8	0.8	0.0	0.4	14.0	159.0
TOTAL INVERTS	347.1	274.0	1890.0	6.1	5.6	6.8	0.8	8.0	258.4	170.2	159.4
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	3461.8	3199.0	8090.8	3324.2	2111.6	2078.8	2031.6	5952.8	3034.4	27691.4	431.4

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	8/ 2/83	8/ 2/83	8/ 2/83	8/ 3/83	8/ 3/83	8/ 3/83	8/ 4/83	8/ 4/83	8/ 4/83	8/ 4/83	8/ 4/83
LATITUDE START	51 55.3	51 52.9	51 53.6	51 39.6	51 42.9	51 39.7	51 45.1	51 46.9	51 52.3	51 46.9	51 48.2
LONGITUDE START	178 16.2E	178 21.2E	178 9.2E	179 0.8	178 51.5	178 31.8	178 9.2	178 6.1	177 44.5	177 39.6	177 39.3
LATITUDE END	51 56.3	51 54.1	51 53.4	51 39.6	51 43.0	0 0.0	51 44.4	51 41.8	51 52.5	51 47.5	51 46.1
LONGITUDE END	178 14.2E	178 20.6E	178 11.7E	179 1.2	178 51.5	0 0.0	178 7.4	178 7.4	177 46.9	177 37.0	177 30.5
LORAN START	12934.40	12961.00	12885.40	13916.80	13983.50	14093.70	14250.90	14274.50	14427.60	14455.50	14504.10
LORAN START	34623.70	34633.60	34617.40	34840.40	34847.50	34872.60	34891.20	34892.70	34911.50	34923.60	34933.50
LORAN END	12923.30	12960.00	12901.10	13914.20	13984.20		14259.80	14271.00	14413.00	14454.70	14489.80
LORAN END	34619.70	34631.00	34620.80	34839.90	34847.50		34893.80	34890.80	34908.80	34923.40	34931.70
GEAR DEPTH	122	82	101	234	318	72	53	84	65	73	44
DURATION IN HOURS	0.50	0.50	0.50	0.15	0.09	0.01	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.60	1.34	1.55	0.29	0.00	0.00	1.60	1.16	1.55	1.70	1.45
PERFORMANCE / GEAR	0 /160	1 /160	0 /160	7 /160	7 /160	5 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	1034.0	7.0	242.0	93.3	94.4	700.0	5.0	14.0	10.0	14.0	25.0
PACIFIC COD	332.0	112.0	668.0	0.0	0.0	300.0	462.2	542.0	48.0	252.0	114.0
PAC OCEAN PERCH	94.0	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	148.0	11.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
SHORTRAKER RKFH	53.0	0.0	0.0	420.0	133.3	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	18.0	0.0	0.0	53.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	23.3	44.4	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
GIANT GRENADIER	0.0	0.0	0.0	860.0	622.2	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	18.0	14.0	37.0	0.7	0.0	300.0	280.2	146.4	32.4	105.2	23.8
OTHER ROUNDFISH	4.4	0.0	23.4	24.0	36.7	0.0	0.4	9.0	1.4	6.6	4.4
TOTAL ROUNDFISH	1701.4	144.0	994.0	1474.7	931.1	1300.0	747.8	711.4	91.8	378.8	159.2
ARROWTOOTH FL	52.0	0.0	38.0	40.0	0.0	0.0	2.0	34.0	14.0	13.2	12.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	4.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.6	0.0
ROCK SOLE	214.0	296.0	343.0	0.0	0.0	0.0	336.0	656.0	6.0	426.0	12.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	13.8	187.2	323.2	0.0	0.0	0.0	582.4	37.2	50.4	41.2	126.0
OTHER FLATFISH	120.0	0.0	0.0	53.3	177.8	0.0	0.0	0.0	20.0	8.8	0.0
TOTAL FLATFISH	399.8	487.2	704.2	93.3	177.8	0.0	920.4	729.2	90.4	489.8	150.0
SKATES	0.6	56.0	286.0	127.3	0.0	100.0	0.6	0.0	28.0	76.0	0.8
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.6	56.0	286.0	127.3	0.0	100.0	0.6	0.0	28.0	76.0	0.8
TANNER CRAB	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.0	50.0	25.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0	21.0	29.0	0.0
GOLDEN KING CRAB	134.0	0.0	171.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	2.0	66.0	233.3	0.0	0.0	2.0	0.0	0.0	212.0	3.0
OTHER INVERTS	50.0	51.6	88.4	68.7	125.6	0.0	1210.2	61.0	172.8	2023.0	964.5
TOTAL INVERTS	185.0	53.8	325.4	328.7	125.6	0.0	1212.2	159.0	197.8	2314.0	992.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2286.8	741.0	2309.6	2024.0	1234.4	1400.0	2881.0	1599.6	408.0	3258.6	1312.6

LATITUDE START	51 55.1	51 56.6	51 55.6	51 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LATITUDE END	51 56.0	51 57.2	51 54.9	51 58.0	51 59.1	51 52.7	51 53.9	52 0.5	51 59.8	52 2.2	52 2.4
LORAN START	14697.00	14759.40	14745.70	14880.80	14943.60		14943.90	14931.40	14964.10	14954.70	14959.50
LORAN END	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DURATION IN HOURS	0.50	0.23	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PACIFIC COD	406.2	708.7	388.0	48.0	102.0	0.0	112.0	186.0	1388.0	0.0	0.0
NORTHERN RKFH	0.6	2.2	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]	[illegible]
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	348.0	477.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	650.0	492.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL ROUNDFISH	579.2	762.2	1356.8	49.0	150.2	200.6	2202.2	793.8	1465.8	1407.2	1617.5
ARROWTOOTH FL	10.0	15.2	18.0	0.0	27.0	46.0	98.0	43.0	73.0	0.0	136.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ROCK SOLE	71.0	102.2	20.0	14.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	10.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SKATES	0.0	54.3	96.0	0.0	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]
TOTAL ELASMOBRH	0.0	54.3	96.0	0.0	0.0	0.0	0.0	0.0	44.0	5.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	2.0
OTHER INVERTS	32.4	82.6	1.0	0.0	35.0	2.6	0.0	56.0	19.0	12.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1055.2	1017.4	1514.8	81.2	407.6	776.8	2523.8	1044.8	1809.2	1623.2	1911.3

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	8/ 6/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 8/83
LATITUDE START	52 2.1	52 9.3	52 9.1	52 9.6	52 8.8	52 10.1	52 10.8	52 8.4	52 7.9	52 5.4	52 5.7
LONGITUDE START	176 22.6	175 36.1	175 35.6	175 22.8	175 15.6	175 13.6	175 14.0	175 9.8	175 8.4	175 10.4	175 10.0
LATITUDE END	52 1.7	52 8.5	52 8.5	52 9.8	52 8.1	52 11.4	52 10.6	52 7.9	52 7.5	52 5.7	52 5.7
LONGITUDE END	176 23.7	175 36.9	175 37.0	175 25.0	175 17.7	175 14.9	175 11.8	175 12.0	175 10.0	175 13.5	175 10.2
LORAN START	14948.90	15242.60	15243.70	15317.60	15356.30	15367.10	15372.10	15385.60	15394.10	15369.70	15368.30
LORAN START	34987.00	35024.70	35024.90	35035.80	35042.30	35040.20	35042.40	35047.10	35048.70	35047.10	35049.20
LORAN END	14937.50	15234.60	15234.20	15305.80	15341.90	15365.90	15383.50	15373.00	15383.10	15352.90	15367.00
LORAN END	34985.70	35024.40	35024.30	35033.80	35041.10	35042.30	35044.20	35045.80	35047.50	35045.40	35049.00
GEAR DEPTH	136	81	84	106	114	118	170	75	59	52	40
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.42	0.50	0.05
DISTANCE FISHED	1.11	1.10	0.99	1.39	1.41	1.45	1.40	1.45	1.05	1.69	0.20
PERFORMANCE / GEAR	7 /160	5 /160	0 /160	0 /160	0 /160	1 /160	0 /160	0 /160	0 /160	0 /160	6 /160
POLLOCK	40.0	39.0	62.0	596.0	1237.0	678.0	38.0	6.0	9.5	6.0	0.0
PACIFIC COD	304.0	120.0	230.0	644.0	530.0	410.0	45.0	135.0	131.0	234.0	0.0
PAC OCEAN PERCH	1042.0	0.0	0.0	18.0	61.0	4.0	6.0	1.0	0.0	3.0	0.0
NORTHERN RKFH	0.0	1.0	2.0	8.0	0.0	2.0	2.0	0.0	7.1	0.0	0.0
SHORTRAKER RKFH	396.0	0.0	0.0	0.0	0.0	0.0	404.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	148.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	8.0	0.0	0.0	17.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	22.0	44.6	62.2	173.4	90.8	6.0	6.0	20.0	53.1	144.4	4.0
OTHER ROUNDFISH	0.0	2.6	0.8	4.0	7.0	1.0	0.4	10.0	5.0	2.4	4.0
TOTAL ROUNDFISH	1960.0	207.2	357.0	1451.4	1925.8	1101.0	524.4	172.0	206.9	389.8	8.0
ARROWTOOTH FL	22.0	74.0	67.0	36.0	19.0	62.0	16.0	7.0	7.1	38.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	36.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	12.0	19.0	3.6	0.0	4.0	0.0	16.0	0.0	0.0	0.0
ROCK SOLE	50.0	40.2	54.0	322.0	339.0	94.0	392.0	394.0	183.3	278.0	40.0
REX SOLE	0.0	0.0	0.0	1.0	0.0	7.0	3.0	3.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	8.0	0.0	0.0	62.4	0.0	21.0	0.0	0.0	4.0	276.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	42.0	50.0	26.2	0.0	0.0
TOTAL FLATFISH	80.0	126.2	140.0	425.0	358.0	188.0	489.0	470.0	220.7	592.0	40.0
SKATES	0.0	40.0	20.0	100.0	0.0	62.0	4.0	0.0	4.8	4.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	40.0	20.0	100.0	0.0	62.0	4.0	0.0	4.8	4.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.8	2.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	19.0	0.0	0.0
GOLDEN KING CRAB	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	6.2	3.8	2.0	308.0	1.0	36.0	6.0	195.0	0.0	6.0	0.0
OTHER INVERTS	500.4	9.2	212.0	69.0	173.0	4.0	0.0	0.0	370.2	905.0	30.0
TOTAL INVERTS	518.6	13.0	214.0	377.0	174.0	40.0	6.0	219.0	394.0	913.0	30.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2558.6	386.4	731.0	2353.4	2457.8	1391.0	1023.4	861.0	826.4	1898.8	128.0

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/ 8/83	8/ 8/83	8/ 8/83	8/ 8/83	8/ 8/83	8/ 8/83	8/10/83	8/10/83	8/10/83	8/10/83	8/10/83
LATITUDE START	52 18.5	52 17.6	52 17.5	52 17.1	52 16.5	52 12.7	51 12.1	51 12.9	51 12.3	51 12.3	51 31.6
LONGITUDE START	174 41.9	174 40.3	174 46.6	174 46.4	174 50.0	174 58.7	179 0.5	178 59.8	178 59.0	178 58.8	178 42.0
LATITUDE END	52 17.6	52 16.9	52 18.5	52 17.8	52 15.9	52 13.0	51 11.0	51 11.6	51 11.0	51 11.0	51 31.9
LONGITUDE END	174 43.8	174 41.6	174 45.1	174 44.0	174 51.5	174 56.5	179 2.3	179 0.9	179 0.0	178 59.5	178 39.3
LORAN START	15584.20	15589.70	15550.20	15554.70	15530.40	15463.20	13846.30	13847.40	13854.00	13854.70	14007.20
LORAN START	35064.00	35065.60	35060.50	35061.30	35058.70	35053.60	34866.70	34867.50	34868.10	34868.40	34869.30
LORAN END	15570.80	15578.40	15565.20	15570.70	15515.70	15477.50	13833.00	13837.60	13842.50	13846.20	14024.10
LORAN END	35063.00	35064.90	35061.30	35062.80	35057.40	35055.20	34866.10	34867.70	34868.10	34857.20	34872.00
GEAR DEPTH	82	65	120	90	280	150	103	138	180	223	84
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.60	0.50	0.50
DISTANCE FISHED	1.45	1.17	1.50	1.60	1.47	1.46	1.65	1.55	1.50	1.36	1.70
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	1 /160	0 /160	1 /160	1 /160	0 /160
POLLOCK	1936.0	5.0	6490.0	4302.0	3.0	72.0	1090.0	484.0	0.0	2.0	80.0
PACIFIC COD	87.0	10.0	600.0	2000.0	0.0	208.0	378.0	422.0	21.7	0.0	635.0
PAC OCEAN PERCH	4.0	0.8	158.0	0.0	0.0	246.0	7.0	10.0	8.3	0.0	0.0
NORTHERN RKFH	2.0	0.0	10.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	7.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	161.0	12.0	0.0	521.7	1195.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	38.0	5.0	0.0	50.0	236.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	175.0	11.0	0.0	3.0	21.7	129.0	1.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	30.0	0.0	1004.0	24.0	0.0	24.0	33.3	0.0	5.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	186.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	10.6	36.4	70.0	47.2	0.0	0.2	82.2	78.0	14.3	24.0	143.2
OTHER ROUNDFISH	5.4	4.6	5.0	0.0	166.2	13.0	4.0	16.0	6.8	179.0	8.6
TOTAL ROUNDFISH	2045.0	56.8	7363.0	6349.2	1534.2	784.2	1578.2	1037.0	677.8	1765.0	907.8
ARROWTOOTH FL	42.0	13.0	35.0	27.0	354.0	32.0	28.0	0.0	0.0	0.0	58.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	1818.0	11.0	0.0	0.0	0.0	89.0	0.0
FLATHEAD SOLE	24.0	24.0	65.0	103.6	2.0	6.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	152.0	44.0	220.0	234.0	0.0	6.0	90.0	64.0	6.7	0.0	210.0
REX SOLE	0.0	0.0	5.0	0.0	0.0	6.0	0.0	16.0	11.7	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	8.0	6.2	0.0	32.8	0.0	0.0	111.0	0.0	0.0	0.0	50.0
OTHER FLATFISH	0.0	0.0	0.0	27.0	0.0	0.0	0.0	2.0	20.0	15.0	0.0
TOTAL FLATFISH	226.0	87.2	325.0	424.4	2180.0	61.0	229.0	82.0	38.3	104.0	328.0
SKATES	0.0	0.0	0.0	0.0	0.0	49.0	7.0	62.0	11.7	7.0	78.2
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	0.0	0.0	49.0	7.0	62.0	11.7	7.0	78.2
TANNER CRAB	5.0	1.0	0.0	0.0	0.0	0.0	0.4	1.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	15.8	19.0	0.0
SQUID	2.6	0.4	10.0	0.0	0.0	7.0	0.4	0.0	0.0	12.0	0.0
OTHER INVERTS	34.0	106.6	0.0	0.0	0.0	23.8	818.4	0.0	0.0	72.0	133.4
TOTAL INVERTS	41.6	108.0	10.0	0.0	0.0	30.8	833.2	1.0	15.8	103.0	133.4
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2312.6	252.0	7698.0	6773.6	3714.2	925.0	2647.4	1182.0	743.7	1979.0	1417.4

1983 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	8/11/83	8/11/83	8/11/83	8/12/83	8/12/83	8/12/83	8/12/83	8/12/83	8/12/83	8/12/83	8/13/83
LATITUDE START	51 31.5	51 28.9	51 36.8	51 31.4	51 32.9	51 35.4	51 28.5	51 38.8	51 37.1	51 36.3	51 40.2
LONGITUDE START	178 42.5	178 37.6	178 25.8	176 43.6	176 43.6	176 43.0	176 43.7	176 25.0	176 23.6	176 22.2	176 43.2
LATITUDE END	51 30.2	51 30.0	51 35.7	51 32.6	51 32.4	51 33.5	51 27.5	51 39.3	51 37.4	51 36.8	51 40.7
LONGITUDE END	178 44.7	178 39.2	178 23.9	176 45.1	176 45.9	176 45.3	176 45.8	176 22.9	176 21.3	176 20.1	176 45.6
LORAN START	14004.30	14030.80	14125.60	14706.90	14713.70	14721.30	14696.50	14838.00	14843.40	14847.80	15073.00
LORAN START	34868.90	34875.60	34880.90	34987.60	34987.00	34986.50	34989.20	35000.90	35002.60	35004.00	35035.60
LORAN END	13951.00	14024.60	14132.00	14699.00	14699.10	14706.40	14680.90	14851.80	14858.40	14861.80	15066.80
LORAN END	34866.80	34873.20	34883.80	34986.50	34985.20	34984.70	34987.80	35002.40	35004.20	35005.60	35033.40
GEAR DEPTH	116	146	84	204	134	100	385	101	118	150	340
DURATION IN HOURS	0.50	0.50	0.50	0.26	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.33	1.45	1.56	0.80	1.48	1.50	1.63	1.39	1.52	1.42	1.58
PERFORMANCE / GEAR	0 /160	0 /160	5 /160	1 /160	7 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	452.0	13.0	9.0	0.0	51.0	1053.0	4.0	36.0	457.0	6.0	0.0
PACIFIC COD	435.0	333.0	4520.0	0.0	584.0	730.0	0.0	76.0	152.0	337.0	0.0
PAC OCEAN PERCH	6.0	34.0	0.0	11.5	52.0	14.0	0.0	0.8	8.0	94.0	0.0
NORTHERN RKFH	14.0	18.0	0.0	0.0	5.0	5.0	0.0	0.0	1.0	4.2	0.0
SHORTRAKER RKFH	0.0	32.0	0.0	1140.4	27.0	0.0	0.0	0.0	0.0	40.0	0.0
ROUGHEYE RKFH	0.0	54.0	0.0	315.4	9.6	8.0	0.0	0.0	0.0	6.0	0.0
SHORTSPINE TH	0.6	0.0	0.0	11.5	0.0	0.0	24.0	0.0	0.0	35.0	57.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	39.0	0.0	0.0	0.0	0.0	192.0	0.0	0.0	0.0	423.0
ATKA MACKEREL	6.0	22.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	3.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	112.0	0.0	0.0	0.0	1196.0
SCULPINS	84.0	167.0	0.0	19.2	20.8	14.0	0.0	1.0	10.0	8.6	0.0
OTHER ROUNDFISH	20.2	4.0	0.0	0.4	3.0	0.6	15.6	0.0	5.4	0.6	63.6
TOTAL ROUNDFISH	1017.8	716.0	4529.0	1498.5	754.4	1824.6	347.6	113.8	633.4	534.4	1749.6
ARROWTOOTH FL	24.0	120.0	0.0	34.6	14.0	58.0	0.0	44.0	0.0	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	33.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
ROCK SOLE	30.0	35.0	12.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	10.0
PAC HALIBUT	8.6	375.8	1306.0	333.5	0.0	127.0	0.0	54.0	124.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0
TOTAL FLATFISH	62.6	530.8	1318.0	391.2	14.0	185.0	0.0	110.8	124.0	0.0	43.0
SKATES	108.0	316.0	0.0	7.7	2.4	4.2	0.0	147.0	52.0	1082.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0
TOTAL ELASMOBRH	108.0	316.0	0.0	7.7	2.4	4.2	0.0	147.0	52.0	1082.0	65.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	7.0	82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	6.0	10.0	0.0	7.7	0.0	0.0	6.0	0.0	0.0	116.0	0.0
OTHER INVERTS	14.0	1820.6	0.0	18.1	2009.0	3018.0	0.0	800.0	12005.6	10002.0	33.0
TOTAL INVERTS	27.0	1912.6	0.0	25.8	2009.0	3018.0	6.0	800.0	12005.6	10118.0	33.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1215.4	3475.4	5847.0	1923.1	2779.8	5031.8	353.6	1171.6	12815.0	11734.4	1890.6

1993 ALEUTIANS ISLANDS SURVEY R/V MILLER FREEMAN

HAUL #	89	90	91	92	93	94	95	96	97	98	99
LATITUDE START	51 42.4	51 44.7	51 49.4	51 51.8	51 51.1	51 48.7	51 47.4	51 48.9	51 50.0	51 52.0	51 51.2
LATITUDE END	51 42.4	51 44.0	51 49.0	51 52.9	51 50.9	51 49.4	51 47.5	51 48.9	51 50.0	51 52.1	51 51.2
LONGITUDE END	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LORAN START	35035.50	35034.10	35031.70	35027.40	35031.90	35032.10	35032.20	35031.90	35034.20	35032.40	35039.60
LORAN END	35034.10	35032.30	35030.30	35028.50	35031.10	35032.00	35030.30	35030.20	35032.50	35030.40	35037.70
DURATION IN HOURS	0.38	0.50	0.50	0.50	0.27	0.25	0.50	0.50	0.50	0.50	0.57
DISTANCE FISHED	1.25	1.50	1.27	1.33	0.83	0.79	1.50	1.37	1.40	1.42	1.39
PACIFIC COD	0.0	34.0	4524.0	340.0	277.8	226.0	32.0	93.0	47.0	322.0	2921.1
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SHORTRAKER RKFH	250.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	13.2	6.0	0.0	0.0	0.0	36.0	30.0	13.0	0.0	0.0	0.0
AIRA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	1.0	8.8	14.0	107.4	56.0	0.2	0.0	0.4	87.0	17.0
TOTAL ROUNDFISH	407.9	347.0	11890.6	358.0	3933.3	874.8	374.4	1788.4	240.6	1411.8	8198.8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	88.0	66.0	716.0	507.4	332.0	190.0	172.0	79.0	109.0	134.2
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL FLATFISH	68.4	198.8	162.0	1044.4	815.9	422.8	318.0	220.0	201.6	161.0	250.5
SKATES	8.4	4.0	8.8	0.0	0.0	122.0	113.0	14.0	15.0	4.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL INVERTS	20.8	0.0	0.0	30.0	0.0	5.6	2.6	2.0	6.0	56.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	505.5	549.8	12061.4	1432.4	4749.3	1425.2	808.0	2024.4	463.2	1632.8	8448.3

1983 ALEUTIAN ISLANDS SURVEY NOAA VESSEL CHAPMAN

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	8/17/83	8/17/83	8/17/83	8/17/83	8/18/83	8/19/83	8/19/83	8/19/83	8/19/83	8/20/83	8/20/83
LATITUDE START	54 35.5	54 40.4	54 44.7	54 40.0	54 7.1	54 12.8	54 8.8	54 6.2	54 13.8	53 45.4	53 46.2
LONGITUDE START	165 12.7	165 20.4	165 25.5	165 34.4	166 19.1	166 10.6	166 18.2	166 17.3	166 9.3	167 5.7	167 15.5
LATITUDE END	54 36.6	54 41.2	54 45.2	54 40.5	54 7.9	54 13.1	54 9.3	54 7.3	54 13.4	53 46.5	53 48.1
LONGITUDE END	165 14.6	165 17.9	165 23.4	165 32.3	166 21.1	166 9.7	166 15.5	166 15.6	166 10.4	167 7.2	167 15.8
LORAN START	18245.27	18258.06	18271.12	18242.02	18031.14	18071.39	18040.78	18029.75	18078.12	17838.90	17824.49
LORAN START	48042.21	48094.07	48130.68	48174.52	48357.03	48323.82	48355.90	48345.70	48319.11	48542.26	48592.52
LORAN END	18247.98	18264.02	18275.67	18246.26	18031.89	18074.33	18047.20	18037.63	18074.57	17841.19	17831.80
LORAN END	48054.34	48080.82	48118.99	48163.39	48369.26	48319.94	48343.21	48339.14	48324.12	48552.34	48597.55
GEAR DEPTH	47	80	115	163	54	95	72	52	125	47	91
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.25	0.50	0.50	0.25	0.50	0.50
DISTANCE FISHED	1.51	1.52	1.43	1.24	1.45	0.74	1.48	1.56	0.78	1.44	1.35
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	0.4	18.0	3088.0	358.0	25232.0	16716.4	368.0	0.2	3080.0	0.0	574.0
PACIFIC COD	109.6	1249.0	916.0	0.0	2640.0	2908.0	894.0	0.0	1496.0	165.0	622.0
PAC OCEAN PERCH	0.0	0.0	0.0	18.0	0.0	14.8	0.0	0.0	1156.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	6.0	2.0	0.0	11.2	0.0	0.0	16.0	0.0	2.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	104.0	192.0	448.4	104.0	0.0	56.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	32.2	26.0	42.0	4.0	16.0	239.2	40.0	20.0	6.0	18.0	6.0
OTHER ROUNDFISH	0.0	5.0	1.0	0.0	3680.0	14.8	0.0	0.0	11.6	0.0	0.0
TOTAL ROUNDFISH	142.2	1298.0	4056.0	488.0	31760.0	20352.8	1406.0	20.2	5821.6	183.0	1204.0
ARROWTOOTH FL	0.0	44.0	22.0	180.0	40.0	119.6	588.0	0.0	124.0	26.0	484.0
GREENLAND TURBOT	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	52.0	0.0	0.0
FLATHEAD SOLE	0.0	4.0	38.0	386.0	0.0	0.0	0.0	0.0	12.0	24.0	44.0
ROCK SOLE	73.2	128.0	32.0	2.0	128.0	104.8	170.0	4.0	6.0	164.0	0.0
REX SOLE	0.0	0.0	0.0	2.0	0.0	52.4	0.0	0.0	232.0	0.4	60.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.0	1.0
PAC HALIBUT	9.0	54.4	0.0	0.0	24.6	27.6	27.2	0.0	0.0	212.6	25.6
OTHER FLATFISH	34.4	10.0	6.0	38.0	0.0	52.4	56.0	0.0	16.0	19.0	52.0
TOTAL FLATFISH	116.6	240.4	98.0	620.0	192.6	356.8	841.2	4.0	448.0	447.0	666.6
SKATES	0.0	0.0	0.0	0.0	0.0	254.0	0.0	0.0	0.0	0.0	48.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	0.0	0.0	254.0	0.0	0.0	0.0	0.0	48.0
TANNER CRAB	0.0	1.0	1.0	0.0	0.0	3.6	0.0	0.0	0.8	0.2	1.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
OTHER INVERTS	358.8	58.8	31.4	43.0	235.2	1.6	46.0	335.6	62.8	15.6	18.2
TOTAL INVERTS	358.8	59.8	32.4	57.0	235.2	5.2	46.0	335.6	63.6	15.8	23.2
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	617.6	1598.2	4186.4	1165.0	32187.8	20968.8	2293.2	359.8	6333.2	645.8	1941.8

1983 ALEUTIAN ISLANDS SURVEY NOAA VESSEL CHAPMAN

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	8/21/83	8/21/83	8/22/83	8/22/83	8/22/83	8/22/83	8/22/83	8/22/83	8/22/83	8/23/83	8/23/83
LATITUDE START	53 46.1	53 39.4	53 23.1	53 21.2	53 20.7	53 21.9	53 21.4	53 22.7	53 22.6	53 3.8	53 5.8
LONGITUDE START	167 15.0	167 18.7	168 28.2	168 29.6	168 30.7	168 25.8	168 32.9	168 39.3	168 42.5	169 56.2	169 53.9
LATITUDE END	53 44.7	53 40.3	53 22.3	53 19.6	53 22.1	53 23.3	53 22.8	53 23.4	53 23.7	53 2.5	53 5.0
LONGITUDE END	167 15.0	167 18.9	168 28.1	168 30.1	168 31.2	168 25.1	168 33.5	168 40.4	168 41.2	169 57.5	169 51.7
LORAN START	17823.36	17780.43	17521.48	17506.97	17501.70	17521.37	17498.87	17488.11	17478.21	17135.04	17154.06
LORAN START	48588.83	48589.63	48851.45	48851.96	48854.76	48838.34	48865.92	48895.82	48908.02	49122.66	49121.31
LORAN END	17815.62	17784.36	17517.49	17496.92	17507.88	17531.27	17505.12	17488.29	17488.08	17122.95	17157.35
LORAN END	48585.37	48592.34	48848.54	48849.22	48861.02	48839.03	48872.33	48902.00	48906.03	49123.26	49111.31
GEAR DEPTH	80	47	45	49	51	20	48	86	114	81	96
DURATION IN HOURS	0.50	0.33	0.25	0.50	0.50	0.50	0.47	0.33	0.50	0.50	0.50
DISTANCE FISHED	1.56	0.87	0.86	1.50	1.47	1.50	1.32	0.91	1.47	1.48	1.49
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	718.0	3.0	32.0	0.0	2.4	0.2	23.4	0.0	14.0	0.0	0.0
PACIFIC COD	766.0	269.7	0.0	0.0	2.0	220.0	0.0	56.1	646.0	2582.0	1156.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3824.0	0.0	0.6
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.2	10.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	0.0
SABLEFISH	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	3.6	0.0	0.0	40.0	148.0	78.0	21.3	28.8	52.2	58.0	0.0
OTHER ROUNDFISH	0.0	0.0	52.0	0.0	0.0	39.0	0.0	0.0	0.0	0.0	0.0
TOTAL ROUNDFISH	1491.6	272.7	84.0	40.0	152.4	337.2	44.7	303.0	4576.2	2652.0	1156.6
ARROWTOOTH FL	616.0	1.5	8.0	84.0	76.0	2.0	0.4	183.3	0.0	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	72.0	3.0	0.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	12.0	121.2	104.0	272.0	360.0	92.0	155.3	37.9	0.0	62.0	8.0
REX SOLE	136.0	0.0	0.0	8.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	314.2	732.7	152.0	139.2	82.8	131.4	109.6	1064.2	0.0	435.0	715.4
OTHER FLATFISH	20.0	0.0	0.0	4.0	4.0	0.0	0.0	31.8	9.0	0.0	0.0
TOTAL FLATFISH	1171.2	858.5	264.0	513.2	537.8	225.4	265.3	1317.3	9.0	497.0	723.4
SKATES	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	80.0	30.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	80.0	30.0
TANNER CRAB	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	32.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
OTHER INVERTS	35.2	36.1	40.0	28.0	2.0	30.0	79.8	293.9	766.0	111.0	605.0
TOTAL INVERTS	35.6	36.4	40.0	60.0	22.0	30.0	79.8	294.5	766.0	111.0	608.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2830.4	1167.6	388.0	613.2	712.2	592.6	389.8	1914.8	5401.2	3340.0	2518.0

1983 ALEUTIAN ISLANDS SURVEY NOAA VESSEL CHAPMAN

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	8/23/83	8/24/83	8/24/83	8/25/83	8/25/83	8/25/83	8/26/83	8/26/83	8/26/83	8/26/83	8/27/83
LATITUDE START	53 0.8	52 52.5	53 1.6	52 29.1	52 25.0	52 17.0	52 25.9	52 29.6	52 16.0	52 15.5	52 34.2
LONGITUDE START	169 59.4	169 53.4	169 58.8	173 51.2	173 48.7	173 43.0	173 53.9	173 30.9	173 6.2	172 58.0	172 25.4
LATITUDE END	53 1.8	52 52.3	53 2.4	52 25.3	52 25.2	52 17.7	52 26.5	52 29.5	52 15.6	52 15.0	52 34.2
LONGITUDE END	169 57.6	169 55.7	170 0.5	173 53.4	173 51.0	173 40.8	173 52.4	173 31.8	173 8.4	172 58.7	172 23.1
LORAN START	17106.73	17082.30	17113.74	15885.08	15897.03	15886.19	15874.43	16010.89	16067.30	16104.90	16354.64
LORAN START	49124.25	49079.51	49124.87	49604.80	49599.94	49568.57	49611.71	49578.57	49492.90	49474.18	49453.59
LORAN END	17118.58	17073.02	17111.42	15874.12	15886.75	15902.53	15885.67	16006.32	16054.22	16098.81	16365.37
LORAN END	49121.42	49086.64	49133.02	49609.27	49604.64	49566.30	49610.36	49579.84	49496.57	49474.45	49448.04
GEAR DEPTH	72	40	80	77	76	107	96	113	84	78	123
DURATION IN HOURS	0.50	0.50	0.45	0.50	0.50	0.50	0.50	0.16	0.50	0.25	0.50
DISTANCE FISHED	1.42	1.46	1.32	1.50	1.47	1.46	1.11	0.44	1.40	0.73	1.40
PERFORMANCE / GEAR	0 /160	1 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	0.0	0.0	0.0	72.0	0.0	298.0	1296.0	118.8	1100.0	26942.4	118.0
PACIFIC COD	1720.0	20.0	71.1	1792.0	3010.0	234.0	1118.0	343.8	60.0	110.0	376.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	1.0	5.0	81.3	0.0	0.0	444.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	1.6	24.0	0.0	0.0	0.0	1.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	592.0	0.0	0.0
ATKA MACKEREL	3.0	0.0	0.0	6.0	12.0	0.0	3.0	0.0	0.0	14218.4	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	6.0	15.6	55.0	68.6	1.0	65.0	43.8	14.0	0.0	54.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	10.0	0.4	4.4	0.4	0.0	0.6
TOTAL ROUNDFISH	1723.0	26.0	86.7	1925.0	3090.6	545.6	2517.4	591.9	1766.4	41270.8	994.6
ARROWTOOTH FL	0.0	0.0	0.0	122.0	100.0	76.0	26.0	31.3	256.0	22.0	24.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.0
FLATHEAD SOLE	0.0	0.0	0.0	12.0	10.0	8.0	4.0	0.0	2.0	0.0	0.0
ROCK SOLE	0.0	40.0	28.9	52.0	96.0	180.0	24.0	6.3	94.0	66.0	112.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	146.8	40.8	586.2	97.2	242.2	9.0	0.0	0.0	20.8	17.2	21.0
OTHER FLATFISH	0.0	0.0	0.0	104.0	78.0	62.0	46.0	75.0	42.0	0.0	4.0
TOTAL FLATFISH	146.8	80.8	615.1	387.2	526.2	339.0	100.0	112.5	414.8	105.2	199.0
SKATES	0.0	0.2	22.2	36.0	0.0	28.0	0.0	0.0	80.0	0.0	124.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.2	22.2	36.0	0.0	28.0	0.0	0.0	80.0	0.0	124.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.4	0.0	0.0
RED KING CRAB	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.4	1.0	10.0	1.0	9.4	0.0	0.0	0.0
OTHER INVERTS	7.4	79.4	202.9	242.2	61.2	176.4	201.6	7612.5	86.0	0.0	286.0
TOTAL INVERTS	7.4	85.4	202.9	242.6	62.2	192.4	202.6	7621.9	86.4	0.0	286.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1877.2	192.4	926.9	2590.8	3679.0	1105.0	2820.0	8326.3	2347.6	41376.0	1603.6

1983 ALEUTIAN ISLANDS SURVEY NOAA VESSEL CHAPMAN

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	8/27/83	8/27/83	8/28/83	8/30/83	8/30/83	8/30/83	8/30/83	8/30/83	8/31/83	8/31/83	8/31/83
LATITUDE START	52 35.3	52 15.0	52 15.3	52 15.6	52 24.2	52 19.8	52 24.6	52 24.6	52 49.5	52 48.3	52 51.0
LONGITUDE START	172 24.2	172 58.2	174 23.9	174 27.1	173 52.1	173 49.6	173 51.5	173 52.3	171 29.9	171 34.0	171 20.8
LATITUDE END	52 35.0	52 15.4	52 15.7	52 16.1	52 25.0	52 20.6	52 25.3	52 25.3	52 50.5	52 48.0	52 50.9
LONGITUDE END	172 26.6	172 57.8	174 24.8	174 25.7	173 52.0	173 49.2	173 51.3	173 51.5	171 28.0	171 34.6	171 23.1
LORAN START	16365.93	16100.94	15666.77	15650.78	15875.80	15867.76	15880.59	15876.96	16686.22	16661.67	16733.12
LORAN START	49453.42	49473.46	49637.29	49643.45	49604.00	49588.06	49604.03	49605.30	49360.52	49367.62	49340.71
LORAN END	16353.39	16105.14	15663.48	15660.58	15880.46	15873.67	15885.54	15883.99	16699.85	16657.49	16722.56
LORAN END	49458.23	49473.59	49640.05	49642.33	49605.78	49589.37	49605.28	49605.83	49358.45	49368.58	49346.66
GEAR DEPTH	140	81	83	86	71	64	73	73	120	123	109
DURATION IN HOURS	0.50	0.17	0.25	0.33	0.25	0.25	0.25	0.25	0.50	0.20	0.50
DISTANCE FISHED	1.45	0.51	0.67	0.94	0.78	0.75	0.75	0.74	1.45	0.39	1.43
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	1 /160	0 /160
POLLOCK	2472.0	16141.2	0.0	115.2	0.0	0.0	0.0	0.0	1874.0	665.0	0.0
PACIFIC COD	236.0	911.8	0.0	475.8	0.0	0.0	0.0	0.0	638.0	365.0	768.0
PAC OCEAN PERCH	1996.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.0	1000.0	364.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	4.0	41.2	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0
ATKA MACKEREL	0.0	2305.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	40.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	39.0	12.5	16.0
OTHER ROUNDFISH	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.2
TOTAL ROUNDFISH	4798.0	19400.0	0.0	595.5	0.0	0.0	0.0	0.0	2562.6	2052.5	1148.2
ARROWTOOTH FL	54.0	35.3	0.0	112.1	0.0	0.0	0.0	0.0	138.0	0.0	68.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	178.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	54.0	229.4	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	8.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	13.0	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
OTHER FLATFISH	34.0	11.8	0.0	12.1	0.0	0.0	0.0	0.0	16.0	5.0	4.0
TOTAL FLATFISH	155.0	301.2	0.0	303.0	0.0	0.0	0.0	0.0	164.0	5.0	89.6
SKATES	60.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	40.0	50.0	74.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	60.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	40.0	50.0	74.0
TANNER CRAB	0.0	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	300.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	163.0	360.5	162.6
TOTAL INVERTS	318.0	0.0	0.0	47.0	0.0	0.0	0.0	0.0	163.0	360.5	182.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	5331.0	19712.9	0.0	945.5	0.0	0.0	0.0	0.0	2929.6	2468.0	1494.4

1983 ALEUTIAN ISLANDS SURVEY NOAA VESSEL CHAPMAN

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	8/31/83	9/ 1/83	9/ 1/83	9/ 1/83	9/ 1/83	9/ 1/83	9/ 2/83	9/ 2/83	9/ 2/83	9/ 3/83	9/ 3/83
LATITUDE START	52 49.7	52 42.0	52 41.3	52 43.4	52 45.1	52 47.8	53 35.9	53 36.2	53 35.4	54 6.9	54 6.7
LONGITUDE START	171 23.7	170 47.9	170 49.0	170 47.2	170 38.1	170 53.5	168 11.5	168 10.8	168 12.3	166 20.5	166 20.1
LATITUDE END	52 50.0	52 41.4	52 41.9	52 42.8	52 45.4	52 48.8	53 36.0	53 36.2	53 36.1	54 7.0	54 6.8
LONGITUDE END	171 21.1	170 49.5	170 47.8	170 48.6	170 35.0	170 51.5	168 11.0	168 10.2	168 11.5	166 21.4	166 21.8
LORAN START	16714.06	16819.22	16811.18	16829.72	16875.19	16828.52	17637.02	17640.27	17632.04	18027.73	18027.62
LORAN START	49344.69	49220.85	49221.59	49222.45	49200.68	49254.30	48817.69	48815.65	48819.97	48364.21	48361.84
LORAN END	16726.59	16810.06	16819.08	16820.89	16888.83	16841.96	17638.65	17641.64	17637.56	18026.71	18025.56
LORAN END	49338.40	49223.80	49220.26	49224.82	49191.84	49251.14	48815.94	48812.86	48818.37	48369.24	48370.69
GEAR DEPTH	105	87	76	159	104	364	65	65	66	57	57
DURATION IN HOURS	0.50	0.33	0.34	0.50	0.50	0.50	0.10	0.11	0.23	0.20	0.33
DISTANCE FISHED	1.51	1.09	1.02	1.06	1.74	1.41	0.30	0.40	0.73	0.56	0.97
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	5 /160	0 /160	0 /160	0 /160	0 /160	0 /160
POLLOCK	0.0	9.1	0.0	8.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
PACIFIC COD	1674.0	1512.1	73.5	0.0	3266.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	3.0	266.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	2.0	58.5	5.9	0.0	6.0	0.2	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.2	0.3	0.0	0.0	0.2	2.8	0.0	0.0	0.0	0.0	0.0
TOTAL ROUNDFISH	1677.2	1580.0	79.4	11.0	3542.2	5.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FL	78.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	18.0	39.4	64.7	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	200.6	321.2	69.4	0.0	591.6	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	305.6	375.8	134.1	0.0	603.6	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	76.0	60.6	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	76.0	60.6	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	245.2	400.0	641.5	46.0	244.0	20.4	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	268.2	400.0	641.5	46.0	244.0	20.4	0.0	0.0	0.0	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2327.0	2416.4	855.0	57.0	4423.8	25.4	0.0	0.0	0.0	0.0	0.0

1983 ALEUTIAN ISLANDS SURVEY NOAA VESSEL CHAPMAN

HAUL #	56	57	58	59	60	61	62	63
MONTH/DAY/YEAR	9/ 3/83	9/ 3/83	9/ 3/83	9/ 4/83	9/ 4/83	9/ 4/83	9/ 4/83	9/ 4/83
LATITUDE START	54 7.7	54 6.0	54 7.3	54 12.5	54 11.4	54 7.3	54 6.8	54 7.2
LONGITUDE START	166 19.0	166 18.9	166 20.7	165 50.9	165 47.8	166 20.5	166 19.2	166 21.5
LATITUDE END	54 7.7	54 6.9	54 7.5	54 11.8	54 11.8	54 6.9	54 7.1	54 7.3
LONGITUDE END	166 21.4	166 21.8	166 18.1	165 50.5	165 50.7	166 17.9	166 21.5	166 19.2
LORAN START	18033.92	18026.13	18029.38	18098.01	18097.35	18029.91	18029.53	18027.69
LORAN START	48358.19	48354.17	48366.25	48217.33	48197.96	48364.82	48356.91	48370.38
LORAN END	18030.25	18025.59	18034.57	18095.43	18094.96	18031.90	18027.36	18031.80
LORAN END	48370.32	48370.94	48352.88	48213.86	48214.51	48350.81	48369.64	48358.51
GEAR DEPTH	59	56	58	25	36	54	55	55
DURATION IN HOURS	0.50	0.50	0.50	0.25	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.44	1.47	1.48	0.74	1.57	1.49	1.46	1.48
PERFORMANCE / GEAR	0 /160	0 /160	0 /160	0 /160	0 /160	0 /160	5 /160	0 /160
POLLOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/15/83	7/15/83	7/16/83	7/16/83	7/16/83	7/17/83	7/17/83	7/18/83	7/18/83	7/18/83	7/18/83
LATITUDE START	52 55.0	52 54.4	52 53.5	52 53.4	52 59.1	52 56.7	52 50.8	52 49.5	52 53.1	52 50.3	52 48.9
LONGITUDE START	170 48.8E	170 49.3E	170 49.8E	170 47.6E	170 44.0E	171 3.3E	171 53.6E	171 52.3E	172 17.3E	172 22.6E	172 28.0E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	99	143	219	327	93	143	219	327	93	137	99
DURATION IN HOURS	1.00	1.00	1.00	0.60	0.90	1.00	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	3.09	3.41	3.17	2.02	2.80	2.80	2.66	2.55	3.11	3.64	4.11
PERFORMANCE / GEAR	0 /716	0 /716	1 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	3.3	98.3	7.9	0.0	31.6	2361.4	163.4	0.0	3688.8	4333.0	11377.0
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	169.3	399.0	437.4
PAC OCEAN PERCH	8198.6	237.7	8.4	0.0	1383.8	113.8	0.9	0.0	0.0	18.5	1.3
NORTHERN RKFH	730.6	20.9	0.0	0.0	800.0	22.9	373.2	0.0	0.0	1.5	0.0
SHORTRAKER RKFH	0.0	0.0	168.2	138.2	1.2	0.0	3621.8	54.2	0.0	0.0	0.0
ROUGHEYE RKFH	180.8	11.5	7.1	12.2	66.7	69.2	1.8	0.0	0.0	5.3	0.0
SHORTSPINE TH	5.1	3.3	47.2	60.3	0.0	4.4	59.3	293.4	0.0	2.0	0.0
OTHER ROCKFISH	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	6.6	207.2	0.0	0.0	9.9	323.6	0.0	0.0	0.0
ATKA MACKEREL	25181.1	2567.1	261.7	0.0	24931.4	2198.9	0.0	0.0	484.6	11.5	1.1
GIANT GRENADIER	0.0	0.0	0.0	2381.0	0.0	0.0	0.0	2583.8	0.0	0.0	0.0
SCULPINS	116.5	9.0	0.0	0.0	27.4	16.8	3.1	0.0	101.0	54.8	9.7
OTHER ROUNDFISH	428.6	33.9	0.0	344.7	66.7	29.1	0.7	414.0	0.0	13.9	0.9
TOTAL ROUNDFISH	34847.2	2981.7	507.1	3143.5	27308.8	4816.5	4234.1	3669.0	4443.7	4839.5	11827.4
ARROWTOOTH FL	0.0	0.0	0.0	0.0	0.0	0.0	1.1	22.9	147.3	134.0	115.3
GREENLAND TURBOT	0.0	47.8	142.6	0.0	0.0	29.1	43.7	100.3	0.0	11.9	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	39.9
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	190.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	18.1	13.7
OTHER FLATFISH	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	0.0	47.8	142.6	10.3	0.0	29.1	44.8	127.2	170.9	185.8	377.9
SKATES	24.3	22.7	1.3	37.5	16.4	79.8	2.6	18.1	0.0	42.3	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	24.3	22.7	1.3	37.5	16.4	79.8	2.6	18.1	0.0	42.3	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	15.9	9.3	4.3	26.4	29.1	0.0	0.0	0.0	64.4	0.0
SQUID	191.8	7268.2	1244.5	0.0	0.0	7081.7	119.9	56.0	24.7	135.4	47.2
OTHER INVERTS	0.7	0.0	0.0	81.5	0.0	0.0	25.3	0.0	0.0	0.0	0.0
TOTAL INVERTS	192.5	7284.1	1253.8	85.8	26.4	7110.8	145.2	56.0	24.7	199.8	47.2
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	35064.0	10336.3	1904.8	3277.2	27351.7	12036.2	4426.7	3870.3	4639.3	5267.4	12252.5

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/19/83	7/19/83	7/20/83	7/20/83	7/20/83	7/20/83	7/21/83	7/21/83	7/21/83	7/22/83	7/22/83
LATITUDE START	52 40.8	52 35.2	52 21.7	52 13.7	52 11.5	52 9.5	52 6.3	52 17.3	52 22.6	52 33.8	52 28.9
LONGITUDE START	172 39.5E	172 47.1E	173 2.1E	173 25.5E	173 33.3E	173 43.6E	173 49.3E	173 37.6E	174 9.8E	174 13.8E	174 46.5E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	223	355	316	99	132	99	230	49	90	49	355
DURATION IN HOURS	1.00	1.00	0.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	3.21	2.91	3.04	3.01	3.67	3.60	3.42	2.77	3.24	3.54	2.44
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	22.9	0.0	2.3	8098.9	1146.8	2116.0	0.0	5.1	1973.4	2982.2	20.3
PACIFIC COD	0.0	0.0	0.0	148.6	56.0	69.2	0.0	226.0	29.1	1558.5	0.0
PAC OCEAN PERCH	0.0	0.0	0.0	19.6	6.6	0.0	0.9	0.0	9.5	0.9	0.0
NORTHERN RKFH	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.9	4.2	0.4	0.0
SHORTRAKER RKFH	149.5	4.4	8.9	0.0	0.0	0.0	419.3	20.9	0.0	0.0	7.9
ROUGHEYE RKFH	9.3	0.0	0.0	2.4	7.1	5.1	47.2	0.0	0.0	0.0	0.0
SHORTSPINE TH	97.4	130.3	289.4	6.6	2.4	0.0	107.1	4.2	0.0	0.0	81.8
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0
SABLEFISH	0.0	78.7	31.4	0.0	0.0	0.0	38.4	0.0	0.0	0.0	72.3
ATKA MACKEREL	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.6	12.1	62.2	0.0
GIANT GRENADIER	0.0	815.5	474.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10044.3
SCULPINS	0.0	0.0	0.0	150.8	33.1	22.9	0.0	32.7	78.1	576.7	7.7
OTHER ROUNDFISH	5.3	298.4	788.8	17.0	7.9	0.2	0.0	0.0	7.1	3.3	107.5
TOTAL ROUNDFISH	284.4	1327.3	1594.6	8447.0	1259.9	2213.4	616.6	292.4	2113.5	5184.2	10341.8
ARROWTOOTH FL	64.4	2.6	33.6	58.6	38.4	15.2	49.4	10.8	93.9	76.3	26.9
GREENLAND TURBOT	72.3	0.0	56.3	1.3	0.0	0.0	49.4	0.0	0.0	0.0	18.1
FLATHEAD SOLE	0.0	0.0	0.0	59.5	25.1	19.4	2.6	0.0	7.7	62.2	11.7
ROCK SOLE	0.0	0.0	0.0	22.5	4.9	63.5	1.3	6.0	9.0	489.9	0.0
REX SOLE	0.0	0.0	12.4	3.1	0.0	14.6	15.0	0.0	2.6	0.0	0.0
DOVER SOLE	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	4.9	3.5	35.3	31.7	17.9	1.5	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	136.7	2.6	124.9	145.0	73.3	116.2	153.0	48.5	131.1	629.9	56.7
SKATES	0.0	0.0	13.0	0.0	18.1	0.0	24.3	0.0	25.8	1.3	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	13.0	0.0	18.1	0.0	24.3	0.0	25.8	1.3	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0
GOLDEN KING CRAB	5.1	4.4	0.0	0.0	7.3	0.0	14.1	0.0	89.7	0.0	0.0
SQUID	291.0	19.8	13.0	110.0	677.9	474.9	118.8	0.0	20.3	0.0	0.9
OTHER INVERTS	0.0	2.2	5.3	1.6	0.0	0.0	0.7	48.9	0.0	5.7	0.9
TOTAL INVERTS	296.1	26.4	18.3	111.6	685.2	474.9	133.6	48.9	110.0	12.8	1.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	717.2	1356.3	1750.8	8703.6	2036.5	2804.5	927.5	389.8	2380.4	5828.2	10400.3

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	7/22/83	7/22/83	7/23/83	7/23/83	7/23/83	7/23/83	7/24/83	7/24/83	7/25/83	7/25/83	7/25/83
LATITUDE START	52 1.6	52 0.2	51 58.0	52 11.1	52 13.5	52 15.7	52 10.8	52 4.0	51 55.1	51 46.6	51 37.6
LONGITUDE START	174 45.6E	174 44.6E	174 44.8E	175 13.1E	175 19.3E	175 12.1E	175 26.3E	175 25.5E	175 45.8E	175 39.0E	175 40.3E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	93	132	198	99	101	132	219	338	344	49	99
DURATION IN HOURS	0.90	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	0.80	1.00
DISTANCE FISHED	3.02	3.02	2.90	2.98	3.36	3.36	3.42	3.00	2.95	2.11	3.17
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	15571.1	9827.8	36.2	2224.4	3654.8	4430.0	7.1	0.0	0.0	3.0	133.6
PACIFIC COD	165.1	0.0	0.0	81.8	328.9	175.5	0.0	0.0	0.0	50.8	0.0
PAC OCEAN PERCH	12751.1	2752.3	51.6	934.2	983.0	236.3	7.1	0.0	0.0	0.9	491.2
NORTHERN RKFH	198.4	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3113.8	82.9
SHORTRAKER RKFH	0.0	15.9	1710.8	13.2	0.0	3.1	315.7	138.0	3.1	3.3	0.0
ROUGHEYE RKFH	136.7	444.2	128.1	94.6	28.7	30.0	256.2	11.5	2.9	61.8	0.0
SHORTSPINE TH	0.0	53.8	327.2	3.2	0.0	25.1	113.8	114.9	366.4	19.9	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
SABLEFISH	0.0	0.0	15.2	0.0	0.0	0.0	38.4	171.1	25.1	0.0	0.0
ATKA MACKEREL	28815.4	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2789.6	40.6
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5174.7	1310.9	0.0	0.0
SCULPINS	98.9	260.0	11.5	0.0	7.5	20.3	10.6	0.9	0.0	56.5	402.6
OTHER ROUNDFISH	37.8	9.3	0.0	0.0	0.7	0.0	0.0	157.5	79.3	50.4	82.0
TOTAL ROUNDFISH	57774.6	13389.1	2280.6	3354.9	5003.6	4920.3	748.9	5768.6	1787.7	6153.4	1232.9
ARROWTOOTH FL	0.0	53.4	94.1	28.9	32.2	231.0	133.2	26.0	52.0	0.0	42.8
GREENLAND TURBOT	0.0	0.0	7.7	0.0	0.0	0.0	61.1	15.9	7.1	0.0	13.7
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.4
ROCK SOLE	0.0	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	19.9	69.2
REX SOLE	0.0	0.0	0.0	0.0	0.0	1.5	1.3	0.0	0.0	0.0	0.7
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	10.6	6.0	12.6	0.0	0.0	0.0	75.5	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0
TOTAL FLATFISH	0.0	53.4	101.8	47.6	38.2	245.1	195.6	46.5	59.1	95.4	175.8
SKATES	0.0	0.0	2.6	29.4	0.0	26.9	0.0	9.7	13.7	192.4	134.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	2.6	29.4	0.0	26.9	0.0	9.7	13.7	192.4	134.3
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	31.9	24.7	26.2	10.3	19.6	11.2	6.8	4.0	22.9	5.8	0.0
SQUID	0.0	0.0	118.2	2.4	4.6	4.4	31.3	164.5	146.6	39.1	0.0
OTHER INVERTS	2.1	27.6	3.3	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
TOTAL INVERTS	34.0	52.3	147.7	12.8	24.2	15.6	38.1	170.5	169.5	44.9	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	57808.6	13494.8	2532.7	3444.7	5066.0	5207.9	982.6	5995.3	2030.0	6486.0	1543.0

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	7/25/83	7/26/83	7/26/83	7/26/83	7/26/83	7/27/83	7/27/83	7/27/83	7/27/83	7/27/83	7/28/83
LATITUDE START	51 39.6	51 54.6	52 0.6	52 3.8	52 19.9	52 16.6	52 13.1	52 11.4	52 8.1	52 3.7	51 55.8
LONGITUDE START	175 53.0E	175 54.6E	175 53.8E	175 52.8E	175 47.3E	175 51.6E	176 3.8E	176 7.6E	176 13.1E	176 23.1E	176 35.6E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	82	93	99	93	143	132	82	82	77	90	79
DURATION IN HOURS	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.80
DISTANCE FISHED	2.83	3.07	2.88	2.72	2.98	2.37	2.17	2.59	2.27	2.36	2.67
PERFORMANCE / GEAR	0 /716	0 /716	1 /716	1 /716	0 /716	0 /716	1 /716	0 /716	0 /716	0 /716	1 /716
POLLOCK	22.9	2306.5	1077.3	213.4	2142.0	4348.4	0.0	0.0	0.0	0.0	0.0
PACIFIC COD	131.4	30.9	153.3	5.1	135.8	113.3	5501.4	4147.3	366.4	195.3	995.4
PAC OCEAN PERCH	4579.2	349.7	3098.2	1060.9	420.6	798.1	200.6	196.2	249.6	9524.0	2037.6
NORTHERN RKFH	1383.0	617.7	6681.8	204.6	6.2	1.3	307.3	62.6	367.3	58.6	8663.9
SHORTRAKER RKFH	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	2509.1	293.7	62.2	799.6	15.7	3.3	0.0	0.0	5.7	34.4	1188.9
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	9.9	0.0	4.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	23.8
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	6754.5	2325.7	79.9	49.4	0.0	1.1	41805.7	8658.9	220.0	8890.4	310.9
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	26.9	38.8	11.6	166.7	79.5	51.1	7.5	0.0	4.4	0.0	17.9
OTHER ROUNDFISH	664.9	12.2	268.2	42.7	0.0	2.9	5.5	42.8	30.6	0.0	0.0
TOTAL ROUNDFISH	16091.1	5975.2	11437.4	2544.6	2799.8	5319.5	47828.0	13107.8	1244.0	18702.7	13238.3
ARROWTOOTH FL	9.7	654.3	96.6	30.0	39.0	47.6	0.0	0.0	0.0	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	7.1	2.6	15.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	1.5	109.3	87.7	14.3	1.8	0.0	2.4	107.1	14.3	0.0	0.0
REX SOLE	0.0	109.3	73.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	18.1	0.0	0.0	0.0	0.0	0.0	25.4	4.6	56.2	13.2	86.5
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	36.4	875.5	273.9	48.3	40.8	47.6	27.8	111.7	70.5	13.2	86.5
SKATES	232.8	111.1	2.9	53.4	97.4	26.9	15.9	71.0	5.5	0.0	44.6
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	232.8	111.1	2.9	53.4	97.4	26.9	15.9	71.0	5.5	0.0	44.6
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	69.7	0.0	0.0	0.0	22.0	7.5	40.1	47.2	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	17.0	0.7	0.0	53.4	0.0	0.0	0.0	0.0	0.0	6.0	0.0
TOTAL INVERTS	86.7	0.7	0.0	53.4	23.1	7.5	40.1	47.2	0.0	6.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	16447.0	6962.5	11714.2	2699.7	2961.1	5401.5	47911.8	13337.7	1320.0	18721.9	13369.4

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	7/29/83	7/29/83	7/30/83	7/30/83	7/30/83	7/31/83	7/31/83	7/31/83	8/ 1/83	8/ 1/83	8/ 1/83
LATITUDE START	51 54.2	51 58.4	51 59.5	51 57.5	51 56.9	52 1.6	52 5.9	51 53.8	51 55.4	51 50.5	52 2.6
LONGITUDE START	176 36.1E	176 46.8E	176 53.6E	176 43.6E	176 32.6E	176 27.8E	176 6.3E	176 35.3E	176 45.6E	179 18.8E	179 6.1E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	137	99	77	51	132	132	355	219	327	338	291
DURATION IN HOURS	1.00	1.00	0.80	0.70	1.00	1.00	1.00	1.00	0.90	1.00	1.00
DISTANCE FISHED	3.00	3.16	3.05	2.69	3.63	4.05	2.92	2.88	2.87	3.32	3.68
PERFORMANCE / GEAR	0 /716	0 /716	1 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	6765.8	315.3	280.5	0.0	3772.8	26629.5	0.0	0.0	0.0	0.0	1.5
PACIFIC COD	28.0	157.4	3323.5	4744.4	29.1	162.3	0.0	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	4124.9	158.3	530.8	0.0	2235.3	3018.1	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	18.5	1946.8	6816.4	0.0	532.2	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	532.6	196.4	122.1	60.4
ROUGHEYE RKFH	253.5	31.7	150.5	0.0	1033.1	40.6	0.0	257.5	32.8	0.0	0.0
SHORTSPINE TH	7.3	0.0	0.0	0.0	29.5	0.0	224.4	71.4	328.2	674.6	64.8
OTHER ROCKFISH	0.0	0.0	1.4	0.0	0.0	0.0	0.0	15.0	0.0	0.0	1.3
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	155.6	15.4	221.9	102.3	0.0
ATKA MACKEREL	0.0	0.0	1322.3	17274.3	453.3	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	547.6	0.0	59.3	14404.8	567.9
SCULPINS	17.8	16.5	0.9	37.9	4.6	29.1	0.0	15.9	0.0	51.6	1.1
OTHER ROUNDFISH	0.0	0.0	61.1	0.0	10.2	0.0	341.3	0.0	377.8	14.4	19.8
TOTAL ROUNDFISH	11197.3	697.7	7617.6	28873.0	7567.9	30411.8	1268.9	907.8	1216.4	15369.8	716.8
ARROWTOOTH FL	30.0	1.3	6.4	0.0	27.3	10.6	80.2	103.6	72.0	207.7	56.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	12.1	38.6	32.3	163.4	300.7
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	129.6	10.5	28.0	31.7	3.3	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	0.0	5.7
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	37.0	33.4	42.1	65.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	30.0	167.9	50.3	70.1	124.0	13.9	92.3	142.2	126.9	371.1	362.4
SKATES	20.3	0.0	6.1	19.6	0.0	46.7	24.7	64.4	42.1	346.1	20.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	139.7	0.0	0.0
TOTAL ELASMOBRH	20.3	0.0	6.1	19.6	0.0	46.7	24.7	64.4	181.8	346.1	20.3
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	47.2	0.0	9.4	0.0	42.3	58.2	0.0	6.8	3.9	0.0	7.3
SQUID	0.0	1.8	0.0	0.0	0.0	0.0	0.0	69.2	159.2	75.4	2.4
OTHER INVERTS	0.0	0.0	0.9	3.4	0.4	5.7	1.8	0.0	1.0	0.0	0.0
TOTAL INVERTS	53.6	1.8	10.3	3.4	42.7	63.9	1.8	76.0	164.1	75.4	9.7
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	11301.2	867.4	7684.2	28966.1	7734.6	30536.3	1387.7	1190.4	1689.2	16162.4	1109.2

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	8/ 2/83	8/ 2/83	8/ 2/83	8/ 3/83	8/ 3/83	8/ 3/83	8/ 3/83	8/ 4/83	8/ 4/83	8/ 4/83	8/ 5/83
LATITUDE START	52 8.9	51 56.1	51 54.6	52 8.4	52 24.1	52 20.9	52 15.2	51 58.3	52 21.2	52 17.1	52 30.6
LONGITUDE START	179 17.6E	179 18.0E	179 20.8E	179 28.1E	179 41.3E	179 27.8E	179 11.5E	179 2.8E	179 54.6	179 45.8	179 31.4
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	234	93	132	137	132	338	355	355	99	126	93
DURATION IN HOURS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	3.62	3.70	3.98	4.05	3.96	3.17	3.05	3.26	3.60	3.48	3.67
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	0.0	5545.5	12000.2	572.3	5242.6	0.0	0.0	0.0	1740.8	441.8	235.5
PACIFIC COD	0.0	1339.5	3041.5	386.7	131.0	0.0	0.0	0.0	46.7	186.5	3.3
PAC OCEAN PERCH	0.0	515.9	2255.3	147.3	5131.9	0.0	0.0	0.0	5090.3	1497.4	253.5
NORTHERN RKFH	0.0	51.6	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0
SHORTRAKER RKFH	78.0	0.0	2.2	0.0	0.0	40.1	26.9	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	25.1	11.5	26.9	0.0	673.3	0.0	0.0	0.0	5.3	0.0	0.0
SHORTSPINE TH	16.8	0.0	0.0	0.0	0.0	95.7	131.0	44.5	24.7	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	45.0	95.7	34.0	13.7	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	3467.0	4030.9	3614.3	0.0	0.0	0.0
SCULPINS	0.0	56.0	80.1	121.1	0.0	0.0	0.0	0.0	71.6	25.5	89.7
OTHER ROUNDFISH	3.7	11.5	57.1	0.0	0.0	602.9	690.9	209.0	4.2	7.5	0.0
TOTAL ROUNDFISH	123.6	7531.5	17463.3	1227.4	11178.8	4250.7	4975.4	3901.8	6999.7	2158.7	582.7
ARROWTOOTH FL	559.5	0.0	0.0	31.7	1199.8	10.6	0.0	95.7	53.8	39.5	16.8
GREENLAND TURBOT	369.1	0.0	0.0	0.0	26.9	80.2	73.2	395.1	0.0	0.0	13.2
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	213.4	138.5	124.8	417.6	0.0	0.0	0.0	19.6	0.0	149.0
REX SOLE	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.0	2.4	4.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0
PAC HALIBUT	0.0	372.1	412.3	13.2	32.0	0.0	0.0	0.0	202.8	447.5	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
TOTAL FLATFISH	928.6	585.5	550.8	169.7	1685.6	90.8	73.2	500.5	278.6	491.0	179.0
SKATES	91.3	0.0	104.5	46.7	0.0	0.0	0.0	57.8	0.0	134.9	184.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	91.3	0.0	104.5	46.7	0.0	0.0	0.0	57.8	0.0	134.9	184.3
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0
GOLDEN KING CRAB	0.0	15.0	26.9	5.3	96.1	18.1	0.0	4.9	60.8	20.3	0.0
SQUID	141.6	0.0	0.0	15.9	0.0	1.3	77.6	0.0	0.7	0.0	0.9
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	141.6	15.0	26.9	21.2	96.1	19.4	77.6	4.9	66.4	20.3	0.9
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1285.1	8132.0	18145.5	1465.0	12960.5	4360.9	5126.2	4465.0	7344.7	2804.9	946.9

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/ 5/83	8/ 5/83	8/ 6/83	8/ 6/83	8/ 6/83	8/ 7/83	8/ 7/83	8/ 7/83	8/ 8/83	8/ 8/83	8/ 8/83
LATITUDE START	52 37.4	52 46.7	52 40.8	52 31.5	52 31.4	52 33.8	52 28.5	52 21.5	52 12.4	52 4.0	52 8.7
LONGITUDE START	179 23.7	179 17.9	179 25.1	179 39.3	179 58.1	179 56.6	179 32.6	179 36.9	179 37.4	179 42.1	179 45.8
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	88	93	88	49	201	355	302	327	280	291	121
DURATION IN HOURS	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	0.60	1.00
DISTANCE FISHED	3.85	2.85	2.87	3.53	3.59	3.68	3.02	3.22	2.92	2.28	3.91
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716
POLLOCK	377.4	13455.3	28663.7	173.3	0.0	0.0	0.0	0.0	2.2	0.0	266.8
PACIFIC COD	166.7	288.4	660.9	14725.2	0.0	0.0	0.0	0.0	0.0	0.0	5.3
PAC OCEAN PERCH	266.8	921.1	910.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1125.2
NORTHERN RKFH	917.6	2198.5	85.1	642.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	84.2	76.9	100.1	40.1	53.8	244.7	0.0
ROUGHEYE RKFH	36.2	233.7	25.1	0.0	537.9	45.1	0.0	0.0	0.0	0.0	16.8
SHORTSPINE TH	0.0	0.0	0.0	0.0	342.2	175.9	191.8	107.6	102.3	293.2	0.0
OTHER ROCKFISH	16.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	51.6	0.0	38.8	212.1	204.1	135.8	29.1	30.8	0.0
ATKA MACKEREL	0.0	218.0	26.9	31100.7	0.0	0.0	0.0	0.0	0.0	0.0	3.7
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	2579.9	4543.5	897.7	1204.2	3401.0	0.0
SCULPINS	28.2	57.7	124.8	20.5	13.7	0.0	0.0	0.0	0.0	0.0	1.3
OTHER ROUNDFISH	71.4	211.4	85.8	8.2	2.2	453.4	1484.2	379.9	405.0	0.0	0.4
TOTAL ROUNDFISH	1880.6	17590.9	30634.4	46669.9	1019.0	3543.3	6523.7	1561.1	1796.6	3969.7	1419.5
ARROWTOOTH FL	52.0	213.4	10.6	0.0	760.6	106.3	135.4	40.1	53.8	316.0	56.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	132.1	826.4	95.7	158.3	370.8	555.5	15.4
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	205.5	34.2	29.5	10.4	0.0	0.0	0.0	0.0	0.0	0.0	21.2
REX SOLE	0.0	0.0	0.0	0.0	19.4	12.8	0.0	0.0	14.1	0.0	11.7
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.8	0.0
PAC HALIBUT	50.9	119.9	162.0	343.9	0.0	88.2	0.0	0.0	0.0	0.0	143.3
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	308.4	367.5	202.1	354.3	912.1	1033.8	235.1	198.4	438.7	927.3	247.6
SKATES	144.2	46.7	210.8	25.4	60.0	10.3	0.0	0.0	0.7	0.0	53.4
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.3	0.0
TOTAL ELASMOBRH	144.2	46.7	210.8	25.4	60.0	10.3	0.0	0.0	0.7	176.3	53.4
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	15.9	29.1	12.6	0.0	30.2	1.0	0.0	18.1	0.0	0.0	20.3
SQUID	0.0	0.0	0.0	0.0	9.3	4.1	0.0	95.6	4.9	4.3	1.3
OTHER INVERTS	0.0	0.0	1.8	0.0	0.0	2.2	0.0	0.0	0.0	0.0	4.0
TOTAL INVERTS	15.9	29.1	14.4	0.0	39.5	7.3	0.0	113.7	4.9	4.3	25.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2349.1	18034.2	31061.7	47049.6	2030.6	4594.8	6758.8	1873.2	2240.9	5077.7	1746.1

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	8/ 9/83	8/10/83	8/10/83	8/11/83	8/11/83	8/11/83	8/12/83	8/12/83	8/12/83	8/12/83	8/13/83
LATITUDE START	52 1.9	51 38.9	51 38.1	51 36.6	51 35.9	51 35.7	51 35.4	51 36.8	51 32.8	51 39.3	51 34.7
LONGITUDE START	179 58.9	177 7.3	177 26.7	177 34.2	177 43.2	177 43.4	177 36.5	177 27.9	177 11.1	177 5.6	177 15.4
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	143	99	93	99	93	121	121	121	338	121	143
DURATION IN HOURS	0.70	1.00	1.00	1.00	1.00	0.80	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	2.35	4.24	3.88	4.33	3.18	2.89	3.65	3.45	3.12	4.45	3.85
PERFORMANCE / GEAR	1 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	58.0	2350.6	59104.4	20694.9	28329.9	2575.5	509.5	2748.7	0.0	11702.6	396.8
PACIFIC COD	32.4	1417.1	1802.9	1743.4	1683.0	513.1	340.0	682.6	0.0	1352.8	328.9
PAC OCEAN PERCH	384.9	18.3	69.7	53.8	122.6	517.5	1579.4	662.3	0.0	242.5	124.8
NORTHERN RKFH	0.0	0.0	31.7	3.5	17.4	0.0	8.2	3.5	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	49.4	38.4	0.0	8.4	111.1
ROUGHEYE RKFH	309.9	0.0	0.0	0.0	0.0	0.0	0.0	38.4	0.0	0.0	11.7
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	153.4	18.5	7.1
OTHER ROCKFISH	0.0	0.0	1.1	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	610.7	27.3	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	363.8	0.0	0.0
SCULPINS	48.6	92.4	54.9	21.8	31.7	37.0	33.6	23.4	0.0	11.5	32.0
OTHER ROUNDFISH	0.6	0.0	0.0	0.0	0.0	0.0	1.5	0.0	799.9	15.9	1.1
TOTAL ROUNDFISH	834.3	3878.4	61064.7	22517.4	30184.6	3643.1	2528.4	4200.6	1927.8	13379.5	1013.5
ARROWTOOTH FL	0.0	198.0	64.8	315.7	544.1	133.4	80.2	27.3	144.6	118.2	20.7
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	2.1	251.8	10.1	216.1	257.9	438.1	379.6	86.9	0.0	160.5	25.1
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.3	3.3	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	170.1	128.8	197.3	117.9	101.4	79.9	103.6	22.5	0.0	241.4	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0
TOTAL FLATFISH	172.3	578.6	272.2	649.7	903.4	651.4	565.6	138.0	250.7	520.1	45.8
SKATES	0.0	1.8	91.9	29.1	2.4	0.0	67.0	93.0	32.2	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	1.8	91.9	29.1	2.4	0.0	67.0	93.0	32.2	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	32.1	9.3	8.4	18.1	0.0	33.6	13.7	24.7	0.0	2.6	6.2
SQUID	3.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.4	0.7
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0
TOTAL INVERTS	35.3	9.3	8.4	18.1	0.0	33.6	13.7	36.2	0.0	8.5	6.9
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1041.9	4468.1	61437.2	23214.3	31090.4	4328.1	3174.7	4467.8	2210.7	13908.1	1066.2

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	8/13/83	8/14/83	8/14/83	8/15/83	8/15/83	8/15/83	8/16/83	8/16/83	8/16/83	8/17/83	8/17/83
LATITUDE START	51 37.3	51 51.1	51 52.0	52 14.4	52 18.4	52 23.5	52 18.2	52 15.8	52 19.1	52 17.0	52 16.7
LONGITUDE START	177 25.6	174 1.2	174 2.3	174 53.0	174 43.1	174 29.6	174 44.9	174 50.2	174 45.9	174 49.6	172 54.2
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	219	126	88	99	88	77	121	121	190	302	99
DURATION IN HOURS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.60	1.00	1.00
DISTANCE FISHED	3.39	3.39	3.44	4.03	3.40	3.47	3.51	3.75	2.34	3.21	3.44
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716	0 /716
POLLOCK	0.0	1035.3	0.0	16132.6	1029.6	126.5	4319.3	4385.9	119.0	0.0	23463.2
PACIFIC COD	75.8	261.9	767.2	1075.0	401.7	532.6	947.1	969.6	52.8	0.0	137.6
PAC OCEAN PERCH	40.6	437.4	2297.2	311.3	660.9	838.6	71.4	3049.0	2604.3	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	3.3	14.1	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	755.7	408.7	42.8	0.0	0.0	0.0	0.0	0.0	3215.8	111.1	0.0
ROUGHEYE RKFH	701.1	1404.8	182.5	0.0	0.0	0.0	0.0	0.0	211.7	0.0	0.0
SHORTSPINE TH	140.7	45.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2	435.6	0.0
OTHER ROCKFISH	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	168.9	293.2	51.6	0.0	0.0	0.0	18.5	0.4	11.3	805.1	2648.6
ATKA MACKEREL	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	435.2
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	235.0	0.0
SCULPINS	48.9	50.5	91.8	1.1	25.2	49.8	14.3	29.1	70.5	0.0	82.0
OTHER ROUNDFISH	0.0	0.0	62.2	18.1	21.2	0.4	0.0	0.4	0.0	481.2	0.0
TOTAL ROUNDFISH	1931.7	3936.8	3509.5	17538.1	2141.9	1562.0	5370.6	8434.4	6351.7	2068.0	26766.6
ARROWTOOTH FL	58.2	54.5	206.8	60.4	0.0	47.2	49.4	20.3	0.0	653.0	86.9
GREENLAND TURBOT	22.0	0.0	0.0	0.0	14.6	0.0	29.1	0.0	78.7	2408.8	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.3	0.0	0.0
ROCK SOLE	0.0	0.0	26.9	295.9	227.1	107.4	342.2	162.7	0.0	0.0	17.6
REX SOLE	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0
PAC HALIBUT	0.0	0.0	46.3	127.2	46.7	513.7	26.5	75.0	73.5	0.0	28.2
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0
TOTAL FLATFISH	93.4	54.5	280.0	483.5	288.4	668.3	447.2	258.0	226.8	3071.7	132.7
SKATES	11.9	8.8	0.0	15.9	0.0	31.3	49.4	0.0	0.0	0.0	44.5
OTHER ELASMOBRH	152.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	164.0	8.8	0.0	15.9	0.0	31.3	49.4	0.0	0.0	0.0	44.5
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.6	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.5	0.0	0.0	0.0
SQUID	48.9	0.0	0.0	13.7	0.0	0.0	0.0	42.3	37.5	98.1	0.0
OTHER INVERTS	0.0	11.5	0.0	0.2	0.4	0.0	0.0	0.0	5.2	0.0	0.0
TOTAL INVERTS	48.9	11.5	0.0	13.9	0.4	0.0	2.2	224.4	42.7	98.1	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2238.0	4011.6	3789.5	18051.4	2430.7	2261.6	5869.4	8916.8	6621.2	5237.8	26943.8

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	8/17/83	8/21/83	8/21/83	8/22/83	8/22/83	8/22/83	8/23/83	8/23/83	8/23/83	8/24/83	8/24/83
LATITUDE START	52 17.5	53 25.3	53 24.8	53 25.4	53 25.7	53 21.1	53 9.2	53 5.0	53 11.3	53 11.9	53 2.1
LONGITUDE START	172 50.1	168 36.3	168 41.0	168 36.5	168 42.2	168 52.5	168 55.8	169 31.6	169 39.9	169 11.2	170 26.7
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	143	93	88	121	209	344	121	121	219	355	219
DURATION IN HOURS	1.00	0.50	1.00	0.60	1.00	1.00	1.00	1.00	0.70	1.00	1.00
DISTANCE FISHED	2.71	1.63	3.34	2.39	3.71	3.41	3.35	2.53	2.45	3.14	2.58
PERFORMANCE / GEAR	1 /716	1 /716	0 /716	1 /716	0 /716	0 /716	1 /716	0 /716	1 /716	0 /716	1 /716
POLLOCK	1563.1	1300.8	0.0	1221.3	255.7	0.0	1563.1	9146.1	0.0	0.0	0.0
PACIFIC COD	20.3	11.0	3541.5	177.8	62.6	0.0	2171.1	843.1	23.6	0.0	0.0
PAC OCEAN PERCH	1934.3	23.0	6591.4	5560.0	355.4	0.0	6682.2	7844.1	0.0	0.0	0.0
NORTHERN RKFH	0.0	85.6	2180.4	93.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	336.0	0.0	0.0	0.0	4814.9	0.0	2806.9
ROUGHEYE RKFH	106.7	0.0	11.0	412.3	198.0	0.0	131.4	774.3	939.9	0.0	1488.1
SHORTSPINE TH	0.0	0.0	0.0	0.0	142.9	71.4	5.7	0.0	187.7	75.8	0.0
OTHER ROCKFISH	0.0	4.0	437.4	0.0	0.0	0.0	2.2	3.3	0.0	0.0	0.0
SABLEFISH	3035.3	0.0	0.0	0.0	317.5	852.8	0.0	0.0	2430.1	264.1	359.8
ATKA MACKEREL	593.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	148.6	0.0	0.0	0.0	15.9	3191.9
SCULPINS	3235.3	0.0	320.8	22.0	189.4	0.0	71.0	24.7	32.7	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	15.0	0.0	0.0	10.9	0.0	66.6	0.0	0.0	0.0
TOTAL ROUNDFISH	10488.7	1424.4	13097.5	7486.8	1857.5	1083.7	10626.7	18702.2	8428.9	355.8	7846.7
ARROWTOOTH FL	93.9	0.0	144.6	97.0	275.6	253.5	109.3	0.0	326.9	426.4	1386.7
GREENLAND TURBOT	0.0	0.0	0.0	0.0	85.1	595.3	0.0	0.0	922.9	3377.9	1364.7
FLATHEAD SOLE	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	3.1	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	2.2	1.5	353.6	43.2	0.0	0.0	5.7	13.2	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0
PAC HALIBUT	22.0	0.0	870.2	91.8	46.3	0.0	52.9	168.7	6.3	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	115.9	0.0	1020.1	223.0	760.6	892.0	162.2	168.7	1261.7	3827.2	2751.4
SKATES	98.3	0.0	103.9	0.0	8.6	12.8	79.2	17.6	76.3	0.0	56.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	98.3	0.0	103.9	0.0	8.6	12.8	79.2	17.6	76.3	0.0	56.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	6.0	2.6	0.0	55.2	13.7	1.5	2.2	3.5	1.0	0.7	8.4
SQUID	0.0	0.0	0.0	0.0	18.1	73.6	0.0	0.0	26.4	0.0	0.0
OTHER INVERTS	2.2	0.0	0.0	0.0	0.0	0.2	0.0	1.5	0.0	0.0	0.0
TOTAL INVERTS	8.2	2.6	0.0	55.2	31.8	75.3	2.2	5.0	27.4	0.7	8.4
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	10711.1	1427.0	14221.5	7765.0	2658.5	2063.8	10870.3	18893.5	9794.3	4183.7	10662.5

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	8/24/83	8/25/83	8/25/83	8/25/83	8/26/83	8/26/83	8/26/83	8/27/83	8/27/83	8/27/83	8/28/83
LATITUDE START	52 53.4	52 49.2	52 56.7	52 51.1	52 38.8	52 30.0	52 31.9	52 21.3	51 58.6	51 58.4	52 6.5
LONGITUDE START	170 39.2	170 52.4	171 17.7	171 41.6	171 44.8	172 34.3	172 37.9	172 49.8	172 42.5	172 41.1	172 34.0
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	338	355	219	355	344	219	344	338	93	126	77
DURATION IN HOURS	1.00	1.00	0.70	0.75	1.00	1.00	1.00	0.20	1.00	1.00	1.00
DISTANCE FISHED	3.40	3.24	2.18	2.29	3.16	3.30	2.77	0.56	3.23	2.85	3.57
PERFORMANCE / GEAR	0 /716	0 /716	1 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	470.5	0.0
PACIFIC COD	0.0	0.0	212.9	0.0	0.0	0.0	0.0	0.0	47.2	0.0	4148.7
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	447.1	164.9	11.5
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0	0.0	11.5
SHORTRAKER RKFH	0.0	0.0	234.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	480.0	7.6	0.0	278.2	0.0	0.0	0.0	14.1	0.0
SHORTSPINE TH	0.0	4.4	17.0	112.9	0.0	0.0	38.4	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	270.7	312.6	82.6	390.4	158.7	656.8	237.2	13799.0	10677.7	415.8	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73490.7
GIANT GRENADIER	1708.1	994.3	0.0	2055.9	9585.5	337.3	315.3	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	121.0	0.0	0.0	144.6	0.0	0.0	175.9	798.6	60.4
OTHER ROUNDFISH	244.8	34.2	0.0	1178.4	51.1	15.9	38.3	0.0	28.7	2.6	5.5
TOTAL ROUNDFISH	2223.6	1345.5	1156.9	3754.7	9795.3	1432.8	629.2	13799.0	11432.6	1866.5	77728.3
ARROWTOOTH FL	106.7	0.0	1222.0	160.5	98.8	771.4	119.9	0.0	46.7	84.9	0.0
GREENLAND TURBOT	617.3	2501.4	386.7	314.0	237.7	2045.9	1491.7	3221.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	183.2	2.9	7.1
REX SOLE	0.0	0.0	0.0	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	10.7	29.1	25.1	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	94.4	0.0	0.0	82.9	0.0	0.0	343.9	388.5	48.5
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	724.0	2501.4	1713.9	521.9	361.6	2900.2	1611.6	3221.0	573.8	476.3	55.6
SKATES	31.5	46.7	109.6	22.0	142.1	194.6	105.1	22.0	36.8	84.2	22.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	31.5	46.7	109.6	22.0	142.1	194.6	105.1	22.0	36.8	84.2	22.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.9	0.7	0.0	0.0	0.0	0.9	3.3	3.5	0.0	0.0	0.0
SQUID	102.3	0.0	1.9	0.0	0.0	295.8	91.7	222.5	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.4	0.0
TOTAL INVERTS	103.2	0.7	1.9	0.0	0.0	296.7	95.0	226.0	4.2	4.4	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	3082.3	3894.3	2982.1	4298.5	10299.0	4824.3	2440.9	17268.0	12047.4	2431.4	77805.9

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	8/28/83	8/28/83	9/23/83	9/23/83	9/24/83	9/24/83	9/24/83	9/24/83	9/25/83	9/25/83	9/25/83
LATITUDE START	52 14.0	51 56.5	51 47.0	51 47.1	51 48.0	51 43.3	51 44.8	51 44.4	51 39.0	51 25.1	51 27.6
LONGITUDE START	172 11.2	173 13.2	177 27.3E	177 39.6E	177 37.8E	177 40.8E	177 48.3E	178 0.5E	178 20.0E	178 28.6E	178 31.1E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	219	99	93	126	87	328	115	77	115	339	219
DURATION IN HOURS	0.80	1.00	1.00	1.00	1.00	1.00	0.80	1.00	1.00	0.88	1.00
DISTANCE FISHED	2.06	3.37	3.83	3.81	3.81	3.51	3.00	3.36	3.24	2.39	3.20
PERFORMANCE / GEAR	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716
POLLOCK	402.4	42757.7	3135.0	2716.1	8891.3	0.0	4307.3	3977.2	18545.3	0.0	0.0
PACIFIC COD	0.0	199.7	208.8	31.3	114.2	0.0	44.4	138.5	232.8	0.0	0.0
PAC OCEAN PERCH	0.0	23478.4	129.6	19.4	1.5	0.0	68.4	5.1	50.3	2.5	0.0
NORTHERN RKFH	0.0	0.0	1.3	0.9	7.5	0.0	2.5	9.3	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	58.4	304.2
ROUGHEYE RKFH	0.0	0.0	5.3	5.3	0.0	0.0	79.4	1.3	0.0	0.0	187.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	254.6	15.4	0.0	0.0	54.7	102.5
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
SABLEFISH	94.8	1036.6	0.0	16.8	0.0	94.4	3.0	0.0	0.0	154.5	149.0
ATKA MACKEREL	0.0	0.0	0.4	0.0	4.0	1.1	0.0	3.7	5.3	0.0	0.0
GIANT GRENADIER	11.6	0.0	0.0	0.0	0.0	248.2	0.0	0.0	0.0	285.3	8.4
SCULPINS	18.5	538.0	18.5	0.9	0.4	0.0	3.9	4.0	167.0	0.0	7.3
OTHER ROUNDFISH	0.0	0.0	1.4	1.4	1.6	121.1	5.8	11.4	11.3	45.2	0.0
TOTAL ROUNDFISH	527.3	68010.4	3500.3	2792.1	9020.5	728.2	4529.9	4150.5	19012.0	600.7	761.3
ARROWTOOTH FL	102.5	191.4	33.7	23.6	28.2	30.4	3.9	103.2	30.4	82.7	245.8
GREENLAND TURBOT	63.9	0.0	0.0	0.0	0.0	87.7	0.0	0.0	0.0	0.0	173.3
FLATHEAD SOLE	0.0	0.0	3.7	3.3	0.0	0.0	1.6	2.0	1.8	0.0	0.0
ROCK SOLE	15.4	29.5	165.8	1382.3	261.5	0.0	1359.4	926.6	309.8	0.0	0.0
REX SOLE	0.0	0.0	1.5	65.7	1.3	0.0	109.6	8.4	0.7	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	141.1	146.6	23.8	0.0	17.2	0.0	0.0	50.0	64.2	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	322.9	367.5	228.5	1474.9	308.2	118.1	1474.5	1090.2	406.9	82.7	419.1
SKATES	217.1	17.2	23.4	50.5	16.3	0.0	7.1	0.7	144.6	0.0	46.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
TOTAL ELASMOBRH	217.1	17.2	23.4	50.5	16.3	0.0	7.1	2.9	144.6	0.0	46.3
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	35.3	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	2.0
SQUID	6.4	0.0	13.0	57.1	13.9	163.2	103.1	22.5	55.1	124.2	134.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	6.7	10.3
TOTAL INVERTS	6.4	0.0	48.3	63.7	17.2	163.2	105.0	22.5	55.1	141.5	146.3
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1073.6	68395.1	3800.5	4381.2	9362.2	1009.5	6116.5	5266.1	19618.6	824.9	1373.0

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	9/25/83	9/26/83	9/26/83	9/26/83	9/26/83	9/27/83	9/27/83	9/27/83	9/27/83	9/28/83	9/28/83
LATITUDE START	51 30.6	51 30.8	51 13.8	51 14.5	51 14.9	51 15.1	51 26.8	51 30.0	51 33.0	51 37.5	51 33.7
LONGITUDE START	178 32.8E	178 35.3E	179 9.0E	179 9.6E	179 10.3E	179 16.6E	178 46.3	178 36.6	178 20.4	178 21.6	178 2.3
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	120	93	208	120	87	93	328	120	87	120	120
DURATION IN HOURS	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.80	1.00
DISTANCE FISHED	3.25	3.63	2.83	3.26	3.56	3.27	2.96	4.11	2.55	3.14	3.93
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	6091.4	14691.7	0.0	15048.8	41535.2	68299.4	0.0	3712.6	2.6	41061.3	22553.4
PACIFIC COD	259.3	361.3	0.0	65.7	231.5	1125.7	0.0	439.4	11677.9	4886.0	404.3
PAC OCEAN PERCH	972.7	94.1	0.0	1200.6	445.8	221.8	0.0	2097.5	1.8	1523.4	307.1
NORTHERN RKFH	0.9	32.6	0.0	32.6	37.0	76.7	0.0	3.5	0.0	3.3	1.8
SHORTRAKER RKFH	0.0	0.0	403.4	38.8	0.0	0.0	146.8	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	13.0	0.0	79.6	4.6	0.0	0.0	0.0	0.4	0.0	3.6	0.0
SHORTSPINE TH	0.0	0.0	96.6	3.3	0.0	0.0	217.4	0.4	0.0	0.0	0.0
OTHER ROCKFISH	1.5	2.2	21.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	3.3
SABLEFISH	0.0	5.3	67.9	2087.8	201.1	762.4	325.2	28.2	217.6	205.3	56.9
ATKA MACKEREL	0.0	5.3	0.0	0.0	2211.2	1266.3	0.0	1270.3	61.3	4.1	2.6
GIANT GRENADIER	0.0	0.0	26.7	0.0	0.0	0.0	2786.7	0.0	0.0	0.0	0.0
SCULPINS	241.0	85.7	80.9	17.0	22.1	1.8	1.1	95.1	66.2	144.1	83.2
OTHER ROUNDFISH	6.2	2.6	0.4	7.9	21.8	11.7	22.1	5.0	0.4	4.6	1.7
TOTAL ROUNDFISH	7586.0	15280.8	777.3	18510.4	44705.7	71765.8	3499.3	7652.4	12027.8	47835.6	23414.3
ARROWTOOTH FL	1.1	17.2	378.5	63.5	41.4	61.3	17.6	88.0	0.0	26.5	1137.8
GREENLAND TURBOT	0.0	0.0	85.1	0.0	0.0	0.0	129.9	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	19.4	25.6	0.0	140.2	131.6	142.6	0.0	8.6	181.9	0.0	791.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0
PAC HALIBUT	103.6	18.7	0.0	14.6	56.2	25.1	0.0	263.2	319.7	60.6	92.2
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	124.1	61.5	463.6	218.3	229.2	229.0	151.5	359.8	501.6	87.1	2021.4
SKATES	64.4	162.5	180.3	94.8	22.0	0.0	16.8	19.8	0.0	79.9	43.4
OTHER ELASMOBRH	0.0	0.0	49.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
TOTAL ELASMOBRH	64.4	162.5	229.9	94.8	22.0	0.0	16.8	19.8	0.0	79.9	49.4
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	11.9	0.0	0.0	2.0	57.3	0.0	75.8	0.0
SQUID	254.9	450.4	294.1	1011.5	59.5	4.0	107.4	31.1	0.2	0.0	60.8
OTHER INVERTS	0.0	0.0	2.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
TOTAL INVERTS	254.9	450.4	296.3	1023.4	59.5	4.0	109.6	88.4	0.2	75.8	60.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	8029.4	15955.2	1767.1	19846.9	45016.4	71998.8	3777.2	8120.4	12529.6	48078.4	25545.9

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	9/28/83	9/28/83	9/29/83	9/29/83	9/29/83	9/29/83	9/30/83	9/30/83	9/30/83	9/30/83	10/ 1/83
LATITUDE START	51 34.2	51 38.0	51 44.4	51 43.2	51 44.7	51 42.2	51 38.7	51 40.6	51 38.5	51 37.9	51 39.8
LONGITUDE START	178 2.3	178 15.1	178 12.3	178 22.5	178 13.4	178 18.3	178 15.5	178 34.1	178 29.4	178 22.9	178 55.8
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	87	93	49	219	87	87	126	312	93	120	328
DURATION IN HOURS	1.00	1.00	0.90	0.40	0.70	1.00	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	3.95	3.25	1.00	1.64	2.25	3.50	4.14	3.03	2.86	3.14	3.36
PERFORMANCE / GEAR	0 /716	0 /716	7 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	5480.7	133.4	0.0	0.0	286.0	0.0	29938.9	0.0	623.9	25344.4	0.0
PACIFIC COD	5131.5	3503.2	2851.3	0.0	1145.1	4898.7	1920.9	0.0	701.1	1804.5	0.0
PAC OCEAN PERCH	93.7	6.0	1.7	0.0	1191.1	35.3	2389.8	0.0	0.0	133.8	0.0
NORTHERN RKFH	1.1	1.5	14.9	0.0	542.0	30.9	2.4	0.0	0.0	6.4	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	2944.3	351.4	0.0	0.0	37.0	0.0	0.0	23.1
ROUGHEYE RKFH	0.0	0.0	0.0	664.3	50.4	0.0	3.3	0.0	0.0	0.2	0.0
SHORTSPINE TH	0.0	0.0	0.0	27.0	7.6	0.0	0.0	65.7	0.0	0.0	4.2
OTHER ROCKFISH	6.4	2.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	724.3	0.0	0.0	51.8	860.5	0.0	391.1	659.2
ATKA MACKEREL	4.0	109.8	14.4	0.0	1.9	212.7	59.1	0.0	519.0	1386.5	0.0
GIANT GRENADIER	0.0	0.0	0.0	10356.3	0.0	0.0	0.0	4521.7	0.0	0.0	3099.7
SCULPINS	92.8	72.1	6.1	18.8	124.9	82.9	159.8	0.0	79.3	154.1	0.0
OTHER ROUNDFISH	0.6	0.0	2.4	0.5	15.4	13.7	0.0	21.0	0.4	4.4	168.9
TOTAL ROUNDFISH	10810.8	3828.9	2893.1	14735.3	3715.9	5274.2	34526.0	5505.9	1923.7	29225.4	3955.1
ARROWTOOTH FL	554.5	6.6	0.0	521.5	24.3	0.0	102.5	1960.1	49.4	96.6	718.3
GREENLAND TURBOT	0.0	0.0	0.0	8.8	0.0	0.0	15.4	142.9	0.0	0.0	214.5
FLATHEAD SOLE	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	419.8	21.2	15.7	0.0	12.0	107.4	78.5	0.0	20.5	35.3	0.0
REX SOLE	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.0	0.0	16.1
PAC HALIBUT	283.3	433.4	0.0	0.0	34.7	478.0	103.6	0.0	493.8	334.2	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1258.5	461.2	15.7	530.3	71.0	585.4	300.0	2122.8	563.7	466.1	948.9
SKATES	19.8	0.0	0.0	25.3	0.0	0.0	41.9	33.1	8.2	4.0	35.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	19.8	0.0	0.0	25.3	0.0	0.0	41.9	33.1	8.2	4.0	35.3
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	1.1	325.2	0.0	105.8	46.3
OTHER INVERTS	0.0	0.0	0.0	60.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2
TOTAL INVERTS	0.0	0.0	4.9	60.8	0.0	0.0	1.1	325.2	0.0	105.8	46.5
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	12089.1	4290.1	2913.7	15351.5	3786.9	5859.6	34869.0	7987.0	2495.6	29801.3	4985.8

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	155	156	157	158	159	160	161	162	163	164	165
MONTH/DAY/YEAR	10/ 1/83	10/ 2/83	10/ 2/83	10/ 2/83	10/ 3/83	10/ 3/83	10/ 3/83	10/ 3/83	10/ 4/83	10/ 4/83	10/ 4/83
LATITUDE START	51 41.3	52 10.0	52 9.2	52 8.7	52 6.3	52 10.5	52 9.6	52 7.0	51 35.1	51 34.9	51 38.2
LONGITUDE START	178 51.8	175 47.8	175 44.0	175 42.6	175 32.1	175 20.2	175 21.8	175 19.3	176 19.6	176 9.4	175 51.1
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	328	87	126	66	44	219	120	93	230	372	339
DURATION IN HOURS	0.80	1.00	0.40	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	2.08	3.61	1.73	3.73	3.33	3.17	3.93	3.84	3.75	3.39	3.19
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	0.0	4649.6	1769.3	3481.1	0.2	0.0	2149.5	12.3	1.3	0.0	0.0
PACIFIC COD	0.0	1764.4	461.3	548.3	0.0	0.0	804.2	1579.4	0.0	0.0	0.0
PAC OCEAN PERCH	0.0	166.7	1619.3	0.0	0.0	18.9	1050.1	496.9	0.0	0.0	0.0
NORTHERN RKFH	0.0	4.4	1.8	0.0	0.0	0.0	20.5	8.4	0.0	0.0	0.0
SHORTRAKER RKFH	161.8	0.0	0.0	0.0	0.0	811.8	7.7	0.0	72.3	24.7	0.0
ROUGHEYE RKFH	0.0	3.3	10.0	0.0	0.0	34.3	7.9	0.0	16.8	0.0	0.0
SHORTSPINE TH	52.4	0.0	0.0	0.0	0.0	14.0	7.3	0.0	14.6	188.9	166.9
OTHER ROCKFISH	0.0	3.7	5.5	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0
SABLEFISH	274.5	0.0	0.0	0.0	0.0	165.3	0.0	0.0	854.1	551.4	478.6
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	10317.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	325.2	269.6
SCULPINS	0.3	307.6	59.5	92.4	86.8	5.9	161.1	195.3	3.7	0.0	0.0
OTHER ROUNDFISH	114.4	7.9	24.8	0.0	0.0	38.9	33.1	5.3	10.8	608.7	266.8
TOTAL ROUNDFISH	10920.9	6907.6	3951.3	4121.8	87.0	1089.1	4245.1	2297.6	973.6	1698.9	1181.9
ARROWTOOTH FL	1301.9	171.1	60.8	85.5	0.0	73.0	166.9	112.4	52.2	22.0	54.0
GREENLAND TURBOT	5.8	0.0	0.0	0.0	0.0	391.9	0.0	0.0	0.0	17.2	24.7
FLATHEAD SOLE	0.0	1.3	3.3	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
ROCK SOLE	0.0	93.3	65.0	92.2	108.5	36.8	155.6	441.4	0.0	0.0	0.0
REX SOLE	0.0	0.0	7.3	0.0	0.0	4.4	0.7	1.5	0.0	0.0	0.0
DOVER SOLE	11.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	9.9
PAC HALIBUT	0.0	191.1	0.0	77.2	59.5	115.3	0.0	125.4	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1318.6	456.8	136.3	254.9	168.0	626.1	323.2	681.1	52.2	39.2	88.6
SKATES	77.1	511.9	49.5	35.3	19.8	28.7	31.3	17.6	108.0	25.8	4.4
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	77.1	511.9	49.5	35.3	19.8	28.7	31.3	17.6	108.0	25.8	4.4
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	3.3	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	0.0	37.2	14.6	0.0	149.5	104.1	39.7
OTHER INVERTS	0.3	0.0	0.5	0.0	0.0	0.0	39.7	0.0	0.2	0.0	1.5
TOTAL INVERTS	3.5	0.0	0.5	0.0	0.0	37.2	61.8	0.0	149.7	104.1	41.2
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	12320.1	7876.3	4137.5	4412.0	274.8	1781.1	4661.4	2996.3	1283.5	1868.0	1316.1

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	166	167	168	169	170	171	172	173	174	175	176
MONTH/DAY/YEAR	10/ 5/83	10/ 5/83	10/ 5/83	10/ 5/83	10/ 6/83	10/ 6/83	10/ 6/83	10/ 6/83	10/ 7/83	10/ 7/83	10/ 7/83
LATITUDE START	51 41.7	51 45.0	51 50.0	51 51.6	51 50.1	51 47.3	51 50.5	51 51.1	51 56.8	51 50.0	51 50.2
LONGITUDE START	175 32.6	174 52.5	174 43.8	174 42.6	174 37.5	174 42.5	174 32.6	174 29.4	173 51.3	173 55.6	173 58.6
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	252	339	120	87	120	241	120	93	41	317	219
DURATION IN HOURS	1.00	1.00	1.00	1.00	1.00	0.70	1.00	1.00	1.00	1.00	1.00
DISTANCE FISHED	2.94	3.17	3.42	3.17	4.21	2.25	3.61	3.48	3.20	2.82	3.31
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	0.0	0.0	13955.3	0.0	21155.6	0.0	15322.2	30.0	0.0	0.0	0.0
PACIFIC COD	0.0	0.0	76.7	382.1	105.4	0.0	182.5	243.8	1593.3	0.0	0.0
PAC OCEAN PERCH	0.0	0.0	3611.2	76.3	4468.8	0.0	13452.7	528.7	77.2	0.0	0.0
NORTHERN RKFH	0.0	0.0	5.3	0.0	5.1	0.0	1.1	0.0	1887.2	0.0	0.0
SHORTRAKER RKFH	10.1	0.0	0.0	0.0	0.0	103.3	0.0	0.0	0.0	186.7	767.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	537.5
SHORTSPINE TH	114.2	173.3	0.0	0.0	0.0	156.9	8.4	0.0	0.0	88.8	192.5
OTHER ROCKFISH	1.1	0.0	3.3	0.9	6.6	1.0	0.0	0.0	149.5	0.0	4.4
SABLEFISH	830.3	955.7	0.0	0.0	2.2	655.7	13.0	0.0	0.0	1535.7	1139.8
ATKA MACKEREL	0.0	0.0	2.4	0.0	2.2	0.0	0.0	3.1	15864.5	0.0	0.0
GIANT GRENADIER	112.0	223.8	0.0	0.0	0.0	581.7	0.0	0.0	0.0	6184.0	835.6
SCULPINS	0.7	0.2	16.3	27.1	12.4	0.3	121.2	114.6	96.3	0.4	30.4
OTHER ROUNDFISH	4.4	644.5	2.6	0.0	6.8	5.3	8.6	7.3	31.9	268.5	37.5
TOTAL ROUNDFISH	1072.8	1997.5	17673.1	486.4	25765.1	1516.4	29109.7	927.5	19699.9	8264.1	3544.7
ARROWTOOTH FL	22.0	60.0	243.6	202.8	492.3	21.4	610.7	151.5	0.0	20.9	80.0
GREENLAND TURBOT	2.6	29.3	0.0	0.0	0.0	15.7	0.0	0.0	0.0	0.0	10.8
FLATHEAD SOLE	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	103.6	151.2	96.1	0.0	43.2	144.8	40.1	0.0	0.0
REX SOLE	12.6	0.0	2.6	0.0	3.5	65.6	34.8	0.4	0.0	0.0	1.1
DOVER SOLE	1.1	37.0	13.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	4.0
PAC HALIBUT	0.0	0.0	72.8	88.2	246.3	0.0	70.5	30.9	68.3	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	38.3	126.3	436.3	442.2	838.2	104.6	759.2	327.6	108.4	20.9	95.9
SKATES	13.2	4.9	22.0	94.4	61.7	22.0	29.3	0.0	0.0	22.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	13.2	4.9	22.0	94.4	61.7	22.0	29.3	0.0	0.0	22.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
SQUID	441.6	81.6	10.1	0.0	0.0	288.9	35.3	0.0	0.0	83.1	180.1
OTHER INVERTS	0.0	3.3	0.0	0.0	0.0	0.0	0.0	2.6	10.4	0.0	0.0
TOTAL INVERTS	441.6	84.9	10.1	0.0	0.0	288.9	35.3	2.6	10.4	83.1	183.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1565.9	2213.6	18141.5	1023.0	26665.0	1931.9	29933.5	1257.7	19818.7	8390.1	3824.2

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	177	178	179	180	181	182	183	184	185	186	187
MONTH/DAY/YEAR	10/ 7/83	10/ 8/83	10/ 8/83	10/ 8/83	10/ 8/83	10/ 9/83	10/ 9/83	10/ 9/83	10/ 9/83	10/10/83	10/10/83
LATITUDE START	51 51.2	51 52.8	51 58.2	51 59.7	52 11.8	52 10.7	52 20.0	52 19.4	52 27.2	52 22.6	53 49.7
LONGITUDE START	173 59.0	173 56.7	171 58.1	171 53.9	171 45.8	171 35.9	170 46.6	170 46.0	170 32.8	170 29.9	167 17.3
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	126	93	120	93	252	339	120	93	202	328	137
DURATION IN HOURS	1.00	1.00	0.90	1.00	0.60	0.90	1.00	1.00	1.00	0.80	1.00
DISTANCE FISHED	3.19	3.39	3.79	3.13	2.06	2.96	3.64	3.98	3.85	2.76	2.47
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	1 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	5937.1	0.0	5041.2	329.6	0.0	0.0	7967.5	0.0	0.0	0.0	4647.4
PACIFIC COD	344.4	352.1	85.2	648.2	0.0	0.0	1650.6	612.9	0.0	0.0	1538.4
PAC OCEAN PERCH	3840.5	1942.7	3569.0	3463.5	0.0	0.0	8454.8	1547.7	2.0	0.0	12632.5
NORTHERN RKFH	2.2	11.0	5.1	4.9	0.0	0.0	15.2	1557.6	33.5	0.0	0.9
SHORTRAKER RKFH	64.6	0.0	0.0	0.0	6.2	0.0	0.0	0.0	25.1	19.3	1582.9
ROUGHEYE RKFH	65.7	1.3	4.4	0.0	0.0	0.0	162.5	13.2	8.8	0.0	754.9
SHORTSPINE TH	0.0	0.0	0.0	0.0	17.7	11.0	0.0	0.0	22.5	59.3	18.5
OTHER ROCKFISH	1.8	0.0	11.8	18.7	0.0	0.0	5.3	10.6	0.0	0.0	2.0
SABLEFISH	228.4	167.8	781.4	13.9	384.3	180.3	0.0	0.0	448.0	277.3	13.0
ATKA MACKEREL	0.0	5.7	26.0	1162.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	1882.8	2981.1	0.0	0.0	10.6	21812.0	0.0
SCULPINS	54.3	34.4	443.4	237.5	0.3	0.0	25.8	10.1	0.0	0.0	953.5
OTHER ROUNDFISH	23.8	2.6	11.0	28.5	22.0	114.9	71.9	41.7	22.0	29.7	19.8
TOTAL ROUNDFISH	10562.8	2517.6	9978.7	5907.7	2313.3	3287.3	18353.6	3793.8	572.5	22197.5	22163.8
ARROWTOOTH FL	272.3	244.1	76.7	0.0	204.7	31.9	97.0	19.8	29.3	0.0	347.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	27.5	0.0	0.0	0.0	90.4	24.8	26.5
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7
ROCK SOLE	0.0	32.6	34.0	23.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	1.3	0.0	0.0	0.0	8.2	5.1	0.0	0.0	0.0	0.0	30.9
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	49.0	0.0	0.0	0.0	0.0	0.4
PAC HALIBUT	77.2	252.7	66.1	461.6	113.8	0.0	297.4	478.0	0.0	0.0	55.1
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	350.8	529.4	176.8	485.0	355.7	86.0	394.4	497.8	119.7	24.8	491.6
SKATES	0.0	0.0	15.4	39.7	23.2	66.1	216.1	81.6	114.6	86.8	8.8
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.1	0.0	3.3
TOTAL ELASMOBRH	0.0	0.0	15.4	39.7	23.2	66.1	216.1	81.6	199.7	86.8	12.1
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	4.0	32.6	53.6	25.1	0.0
SQUID	58.9	0.0	0.0	0.0	0.0	1.2	0.7	0.0	66.1	8.3	0.0
OTHER INVERTS	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	61.5	0.0	0.0	0.0	0.0	1.2	4.7	32.6	119.7	33.4	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	10975.1	3047.0	10170.9	6432.4	2692.2	3440.7	18968.8	4405.8	1011.6	22342.4	22667.5

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	188	189	190	191	192	193	194	195	196	197	198
MONTH/DAY/YEAR	10/10/83	10/10/83	10/11/83	10/11/83	10/11/83	10/11/83	10/12/83	10/12/83	10/12/83	10/12/83	10/16/83
LATITUDE START	53 49.8	53 49.5	53 48.1	53 40.7	53 39.3	53 50.2	53 48.3	53 48.0	53 47.9	53 45.4	54 46.1
LONGITUDE START	167 17.8	167 17.2	167 17.6	167 19.1	167 19.7	167 19.2	167 17.2	167 17.2	167 16.4	167 21.1	176 20.0E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	191	87	82	49	44	328	155	160	160	150	328
DURATION IN HOURS	1.00	0.80	1.00	1.00	1.00	0.90	0.00	0.00	0.00	0.00	1.00
DISTANCE FISHED	2.69	2.28	3.32	3.35	3.33	2.63	0.10	0.10	0.10	0.10	3.12
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	2559.6	11648.8	14279.4	2.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC COD	158.3	7925.6	1683.2	250.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	1105.8	70107.3	3602.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	293.5	101.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	3434.8	0.0	0.0	0.0	0.0	477.7	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	298.7	43.0	0.7	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	215.2	0.0	0.0	0.0	0.0	165.9	0.0	0.0	0.0	0.0	89.9
OTHER ROCKFISH	0.0	80.5	61.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	443.8	0.0	7.5	0.0	0.0	1022.2	0.0	0.0	0.0	0.0	98.8
ATKA MACKEREL	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	536.4	0.0	0.0	0.0	0.0	1190.5
SCULPINS	305.7	635.9	244.0	30.0	32.4	17.1	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.4	51.0	23.4	35.3	66.3	477.3	0.0	0.0	0.0	0.0	134.2
TOTAL ROUNDFISH	8522.3	90787.4	20003.7	318.4	100.4	2701.1	0.0	0.0	0.0	0.0	1513.4
ARROWTOOTH FL	246.0	27.5	799.2	85.3	37.0	280.4	0.0	0.0	0.0	0.0	0.0
GREENLAND TURBOT	120.8	0.0	0.0	0.0	0.0	825.0	0.0	0.0	0.0	0.0	9.0
FLATHEAD SOLE	11.0	1.4	39.7	12.8	23.8	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	14.6	206.6	127.0	155.6	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	308.2	0.0	4.9	0.0	1.5	23.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	6.2	0.0	0.0	0.0	0.0	25.2	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	280.0	103.6	143.3	188.5	31.3	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	692.2	323.5	1154.0	368.4	406.4	1188.7	0.0	0.0	0.0	0.0	9.0
SKATES	168.7	526.4	95.9	0.0	0.0	14.2	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	168.7	526.4	95.9	0.0	0.0	14.2	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	1.5	0.0	0.0	0.0	0.0	73.4	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	1.7	0.0	0.0	0.0	0.0	73.4	0.0	0.0	0.0	0.0	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	9384.9	91637.3	21253.6	686.8	506.8	3977.4	0.0	0.0	0.0	0.0	1522.4

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	199	200	201	202	203	204	205	206	207	208	209
MONTH/DAY/YEAR	10/16/83	10/17/83	10/17/83	10/17/83	10/18/83	10/18/83	10/18/83	10/18/83	10/19/83	10/19/83	10/19/83
LATITUDE START	54 48.6	54 47.5	54 44.2	54 45.3	54 47.7	54 9.1	54 11.7	54 13.2	54 14.8	54 16.0	54 4.7
LONGITUDE START	176 31.1E	178 25.6E	178 33.8E	178 36.6E	178 48.3E	179 27.3E	179 31.6E	179 35.6E	179 38.3E	179 40.8E	179 42.1E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	355	328	284	230	208	339	219	131	87	68	230
DURATION IN HOURS	1.00	1.00	1.00	0.75	1.00	1.00	1.00	1.00	0.77	1.00	1.00
DISTANCE FISHED	3.10	2.98	3.09	2.30	2.86	3.16	3.57	3.06	2.72	3.12	3.11
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	1 /716	0 /716	0 /716	0 /716	0 /716	1 /716	0 /716	0 /716
POLLOCK	0.0	0.0	2.9	0.0	0.0	0.0	0.0	1.3	8.6	234.8	0.0
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1835.1	257.9	72.3	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	125.5	2275.2	0.0
SHORTRAKER RKFH	0.0	6.6	0.0	81.1	531.3	0.0	11.0	7.1	0.0	0.0	39.7
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	36.4	0.0	0.0	171.1	6.6	0.0	0.0
SHORTSPINE TH	171.3	110.2	95.9	166.9	79.8	98.8	107.4	0.0	0.0	0.0	720.5
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.9	0.0
SABLEFISH	44.1	46.3	83.3	189.6	0.0	50.0	0.0	0.0	0.0	0.0	28.7
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.0	0.0
GIANT GRENADIER	1887.2	1010.8	2557.4	1954.8	0.0	815.1	154.3	0.0	0.0	0.0	4949.4
SCULPINS	0.0	0.0	0.0	0.0	125.4	0.0	0.0	5.9	7.7	28.7	0.0
OTHER ROUNDFISH	70.8	336.9	20.8	0.0	0.0	133.4	0.0	12.8	23.1	6.8	3.7
TOTAL ROUNDFISH	2173.4	1510.8	2760.3	2392.4	772.9	1097.3	272.7	2033.3	430.3	2671.2	5742.0
ARROWTOOTH FL	0.0	0.0	9.3	0.0	0.0	0.0	24.3	0.0	0.0	0.0	12.3
GREENLAND TURBOT	20.9	287.7	190.7	690.1	41.9	132.3	355.6	0.0	0.0	0.0	155.9
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.6	3.8	0.0	2.2
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.0	0.0	0.0	12.8
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	0.0	204.4
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	20.9	287.7	200.0	690.1	41.9	133.4	406.1	3.7	28.1	4.9	387.6
SKATES	4.9	19.0	21.6	24.4	0.0	20.5	6.4	0.0	0.0	33.1	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	4.9	19.0	21.6	24.4	0.0	20.5	6.4	0.0	0.0	33.1	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	1.8	7.1	0.0	0.0	0.0	10.8	10.6	0.0	2.6
SQUID	1.3	0.0	0.9	23.9	7.1	2.9	61.7	13.2	0.5	0.0	6.2
OTHER INVERTS	0.0	0.0	0.2	2.0	0.4	0.4	0.0	8.6	0.3	0.4	0.0
TOTAL INVERTS	1.3	0.0	2.9	32.9	7.5	3.3	61.7	32.6	11.4	0.4	8.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	2200.5	1817.5	2984.8	3139.9	822.3	1254.5	746.9	2069.6	469.7	2709.6	6138.4

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	210	211	212	213	214	215	216	217	218	219	220
MONTH/DAY/YEAR	10/19/83	10/19/83	10/20/83	10/20/83	10/20/83	10/20/83	10/20/83	10/21/83	10/21/83	10/21/83	10/22/83
LATITUDE START	53 59.2	53 56.9	53 57.5	53 51.5	53 28.2	53 21.9	53 17.2	53 12.0	51 50.3	51 48.4	51 43.3
LONGITUDE START	179 44.3E	179 52.3E	179 40.3E	179 43.3E	179 52.8E	179 52.0E	179 51.0E	179 50.6E	178 47.3E	178 44.0E	178 34.3E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	241	150	328	366	328	350	361	361	355	383	93
DURATION IN HOURS	1.00	0.73	0.23	1.00	1.00	0.67	1.00	1.00	1.00	1.00	0.53
DISTANCE FISHED	3.18	1.99	0.82	3.07	3.30	3.05	3.24	3.09	2.98	3.22	1.69
PERFORMANCE / GEAR	0 /716	1 /716	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	1 /716
POLLOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	688.5
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3244.5
PAC OCEAN PERCH	0.0	1580.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.2
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	210.9
SHORTRAKER RKFH	41.0	54.4	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
ROUGHEYE RKFH	0.0	1089.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
SHORTSPINE TH	136.0	108.1	62.2	39.2	41.4	94.8	56.9	89.9	127.6	98.8	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
SABLEFISH	0.0	0.0	35.7	43.4	39.2	4.9	19.0	10.6	70.1	48.1	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	3115.1	0.0	2703.0	628.3	1856.3	2285.2	1687.6	875.2	13095.5	19367.7	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	4.5
OTHER ROUNDFISH	14.3	0.3	67.0	17.3	80.3	90.7	111.9	79.0	122.0	64.3	0.0
TOTAL ROUNDFISH	3306.4	2832.5	2867.8	728.2	2017.2	2476.0	1875.4	1054.7	13417.2	19578.9	4276.6
ARROWTOOTH FL	39.9	75.5	0.0	7.1	0.0	0.0	15.4	0.0	727.1	311.7	0.0
GREENLAND TURBOT	373.5	2.7	12.6	163.8	107.6	193.1	233.9	57.3	208.6	245.8	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.2
REX SOLE	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	415.2	79.2	12.6	170.9	107.6	193.1	249.3	57.3	935.7	557.5	54.2
SKATES	0.0	27.1	0.0	13.9	5.5	6.0	6.0	9.9	5.7	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	27.1	0.0	13.9	5.5	6.0	6.0	9.9	5.7	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	6.3	0.0	0.0	3.5	0.0	0.0	0.0	0.0	10.6	0.0
SQUID	41.9	8.8	0.0	0.0	2.9	3.3	0.0	2.6	0.9	44.5	0.0
OTHER INVERTS	0.7	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.2	0.0
TOTAL INVERTS	42.6	15.6	0.0	0.0	6.6	3.3	0.0	2.6	1.3	55.3	0.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	3764.2	2954.4	2880.4	913.0	2136.9	2678.4	2130.7	1124.5	14359.9	20191.7	4330.8

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	221	222	223	224	225	226	227	228	229	230	231
MONTH/DAY/YEAR	10/22/83	10/22/83	10/22/83	10/22/83	10/23/83	10/23/83	10/23/83	10/23/83	10/23/83	10/23/83	10/24/83
LATITUDE START	51 42.8	51 43.0	52 0.4	52 5.1	52 4.3	52 3.8	51 52.9	51 53.3	51 53.4	51 53.3	51 53.4
LONGITUDE START	178 32.8E	178 34.3E	178 40.3E	178 33.8E	178 21.1E	178 18.5E	178 20.6E	178 17.8E	178 17.0E	178 17.6E	178 13.3E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	44	49	388	328	284	219	87	82	87	82	93
DURATION IN HOURS	0.83	0.15	1.00	1.00	1.00	1.00	1.00	0.23	0.50	0.33	1.00
DISTANCE FISHED	2.45	0.40	2.55	3.02	3.13	3.08	3.32	0.40	1.60	1.20	3.16
PERFORMANCE / GEAR	1 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	0.0	0.0	0.0	0.0	0.0	0.0	1687.2	0.0	0.0	0.0	2073.9
PACIFIC COD	1218.7	0.0	0.0	0.0	0.0	0.0	8719.3	0.0	0.0	0.0	1595.0
PAC OCEAN PERCH	1.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.9
NORTHERN RKFH	2534.8	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	2.6
SHORTRAKER RKFH	0.0	0.0	0.0	3.7	43.2	292.1	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	2.9	0.0	0.0	0.0	0.0	49.2	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	65.7	118.6	71.0	12.3	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	2.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	43.7	21.4	46.5	10.8	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	12946.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
GIANT GRENADIER	0.0	0.0	27866.5	14938.6	5044.2	932.1	0.0	0.0	0.0	0.0	0.0
SCULPINS	64.3	0.0	0.0	0.0	0.0	0.7	49.1	0.0	0.0	0.0	0.9
OTHER ROUNDFISH	27.6	0.0	201.0	109.0	381.6	0.0	5.7	0.0	0.0	0.0	0.0
TOTAL ROUNDFISH	16798.6	0.0	28178.2	15191.3	5586.5	1297.2	10467.7	0.0	0.0	0.0	3674.2
ARROWTOOTH FL	0.0	0.0	71.2	23.8	200.0	300.9	41.9	0.0	0.0	0.0	25.8
GREENLAND TURBOT	0.0	0.0	99.4	210.5	183.9	180.1	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	15.9	0.0	0.0	0.0	0.0	0.0	292.1	0.0	0.0	0.0	298.7
REX SOLE	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	66.1	67.0	0.0	0.0	0.0	86.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	15.9	0.0	170.6	234.3	383.9	550.6	401.0	0.0	0.0	0.0	410.5
SKATES	0.0	0.0	0.0	0.0	7.3	24.3	27.1	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	0.0	7.3	24.3	27.1	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	8.2	5.5	16.3	0.0	0.0	0.0	10.6
SQUID	0.0	0.0	41.9	86.4	282.2	122.6	0.0	0.0	0.0	0.0	43.4
OTHER INVERTS	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	0.5	0.0	41.9	86.4	290.4	128.8	16.3	0.0	0.0	0.0	54.0
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	16814.9	0.0	28390.7	15512.0	6268.1	2000.9	10912.1	0.0	0.0	0.0	4138.7

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	232	233	234	235	236	237	238	239	240	241	242
MONTH/DAY/YEAR	10/24/83	10/24/83	10/24/83	10/24/83	10/25/83	10/25/83	10/25/83	10/26/83	10/26/83	10/27/83	10/27/83
LATITUDE START	51 54.3	51 57.0	52 2.3	52 0.0	51 58.0	52 6.4	52 15.5	52 11.8	52 16.0	52 12.9	52 28.2
LONGITUDE START	178 6.8E	177 59.3E	177 58.6E	177 51.8E	177 54.1E	177 51.0E	176 10.1E	176 13.8E	176 9.8E	176 5.0E	175 33.6E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	120	295	317	120	202	87	87	49	120	66	120
DURATION IN HOURS	1.00	1.00	1.00	0.28	0.75	1.00	1.00	1.00	1.00	0.12	1.00
DISTANCE FISHED	3.75	2.84	3.42	0.84	2.10	2.69	2.13	2.05	2.47	0.40	2.34
PERFORMANCE / GEAR	0 /716	0 /716	1 /716	7 /716	1 /716	0 /716	0 /716	1 /716	0 /716	0 /716	0 /716
POLLOCK	22934.8	0.0	0.0	256.1	0.0	768.3	3252.9	0.0	5161.0	0.0	206.6
PACIFIC COD	1295.0	0.0	0.0	1058.9	0.0	1092.0	1232.8	11722.0	7886.0	0.0	173.5
PAC OCEAN PERCH	45.2	0.0	0.0	94.6	9.1	1.8	22.7	0.0	467.8	0.0	877.9
NORTHERN RKFH	25.8	0.0	0.0	26.1	0.0	28.7	16.5	5749.9	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	33.3	39.7	0.0	1099.1	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	2.0	0.0	0.0	27.5	205.2	0.0	10.8	2.6	17.0	0.0	98.8
SHORTSPINE TH	0.0	347.2	461.2	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.1
OTHER ROCKFISH	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	43.7	83.8	0.0	7.6	0.0	0.0	0.0	0.0	0.0	9.3
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	6.2	7.3	10055.3	0.0	0.0	37.0
GIANT GRENADIER	0.0	4962.6	19162.6	0.0	626.1	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	3.5	0.0	6.4	15.0	14.1	94.5	28.4	3.1	11.0	0.0	27.5
OTHER ROUNDFISH	0.2	0.0	45.4	3.2	0.5	4.0	0.6	23.4	0.4	0.0	0.0
TOTAL ROUNDFISH	24306.5	5386.8	19800.4	1481.4	1981.7	1995.5	4572.0	27556.3	13543.2	0.0	1450.7
ARROWTOOTH FL	61.7	153.7	81.1	3.9	357.2	2.6	2.9	0.0	100.8	0.0	156.1
GREENLAND TURBOT	0.0	65.7	9.3	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	724.0	0.0	0.0	6.4	0.0	26.9	12.1	1.5	8.4	0.0	0.0
REX SOLE	6.2	0.0	0.0	0.0	24.4	1.5	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	97.0	0.0	0.0	0.0	0.0	6.6	16.3	236.3	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	888.9	222.3	90.4	10.4	397.5	37.6	31.3	237.8	109.2	0.0	156.1
SKATES	110.2	59.5	175.3	130.0	98.5	163.1	28.7	0.0	0.0	0.0	274.5
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	110.2	59.5	175.3	130.0	98.5	163.1	28.7	0.0	0.0	0.0	274.5
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	19.0	6.4	15.4	0.0	10.3	8.2	17.2	41.7	0.0	0.0	14.3
SQUID	97.0	51.0	57.3	0.0	59.3	0.0	0.2	0.0	0.0	0.0	6.4
OTHER INVERTS	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	116.0	57.4	72.9	0.0	69.9	8.2	17.4	41.7	0.0	0.0	20.7
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	25421.6	5726.0	20139.0	1621.8	2547.6	2204.4	4649.4	27835.8	13652.4	0.0	1902.0

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	243	244	245	246	247	248	249	250	251	252	253
MONTH/DAY/YEAR	10/27/83	10/28/83	10/28/83	10/28/83	10/29/83	10/29/83	10/29/83	10/29/83	10/29/83	10/30/83	10/30/83
LATITUDE START	52 27.9	52 36.6	52 42.7	52 42.1	52 50.4	52 50.2	53 0.4	53 4.3	53 4.3	53 0.9	52 59.1
LONGITUDE START	175 35.5E	174 42.5E	174 22.3E	174 21.3E	173 47.6E	173 36.5E	173 18.1E	172 58.3E	172 49.8E	172 28.0E	172 8.5E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START											
LORAN START											
LORAN END											
LORAN END											
GEAR DEPTH	87	87	131	49	98	49	120	66	44	120	219
DURATION IN HOURS	1.00	1.00	1.00	0.27	1.00	1.00	1.00	0.82	0.75	1.00	1.00
DISTANCE FISHED	2.04	3.15	2.47	0.68	2.78	2.13	3.21	3.00	2.57	2.63	3.41
PERFORMANCE / GEAR	0 /716	1 /716	0 /716	6 /716	0 /716	0 /716	0 /716	1 /716	1 /716	0 /716	0 /716
POLLOCK	520.5	3646.5	2233.3	3862.2	8587.0	27.6	3225.4	1425.0	3780.3	2705.1	0.0
PACIFIC COD	787.3	12980.9	432.1	61.1	7775.7	105.8	65.7	697.2	755.5	604.1	5.7
PAC OCEAN PERCH	50.5	37.7	620.6	90.0	330.0	0.0	175.3	4.9	2.0	1060.4	0.0
NORTHERN RKFH	0.0	7.5	0.0	44231.5	0.0	62.0	0.4	1288.4	10.9	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
ROUGHEYE RKFH	63.5	2.6	9.0	40.7	2.9	0.0	0.9	0.0	0.0	2.6	6.6
SHORTSPINE TH	0.0	0.0	44.8	0.0	0.0	0.0	13.2	0.0	0.0	0.0	199.5
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
ATKA MACKEREL	169.1	21.2	0.0	1145.6	8235.4	15.7	0.0	135.2	2223.5	98.8	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.5
SCULPINS	19.8	854.3	133.0	245.6	3376.4	177.4	26.6	2831.1	1195.1	225.5	2.2
OTHER ROUNDFISH	6.6	0.0	1.1	0.0	19.4	0.6	5.9	50.9	7.2	2.2	2.6
TOTAL ROUNDFISH	1617.3	17550.7	3473.9	49676.7	28326.8	389.1	3513.4	6432.7	7974.4	4698.7	321.5
ARROWTOOTH FL	63.9	0.0	118.6	11.5	120.6	0.9	45.9	53.3	0.0	78.9	331.8
GREENLAND TURBOT	0.0	0.0	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.1
FLATHEAD SOLE	0.0	3.1	87.7	13.0	85.5	5.7	14.3	30.4	4.1	0.4	0.0
ROCK SOLE	0.0	16.5	0.0	17.0	125.9	16.8	0.0	85.5	279.9	0.4	0.0
REX SOLE	0.0	0.0	14.3	0.0	6.6	0.0	8.8	1.8	0.0	0.0	24.3
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	13.7	0.0	171.5	46.3	0.0	59.5	36.8	280.7	46.3	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	63.9	33.3	244.9	213.0	384.9	23.4	128.5	207.8	564.7	126.0	437.2
SKATES	155.4	55.1	195.6	106.3	233.7	6.6	13.2	3.2	0.0	64.6	39.7
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	155.4	55.1	195.6	106.3	233.7	6.6	13.2	3.2	0.0	64.6	39.7
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	9.3	9.5	0.0	0.0	0.0	0.0	34.2	29.0	0.0	36.8	2.2
SQUID	0.0	0.0	33.1	0.0	0.0	0.0	4.4	0.0	0.0	0.0	6.6
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
TOTAL INVERTS	9.3	9.5	33.1	0.0	0.0	0.0	38.6	29.0	0.0	36.8	10.6
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1845.9	17648.6	3947.5	49995.9	28945.4	419.1	3693.7	6672.7	8539.1	4926.1	809.0

1983 ALEUTIAN ISLAND COOPERATIVE US-JAPAN SURVEY F/V DAITO MARU NO. 38

HAUL #	254	255	256	257	258	259	260	261	262	263
MONTH/DAY/YEAR	10/30/83	10/30/83	10/30/83	10/31/83	10/31/83	10/31/83	10/31/83	10/31/83	11/ 1/83	11/ 1/83
LATITUDE START	53 0.7	53 6.4	53 2.3	53 1.8	53 2.6	53 10.6	53 17.0	53 13.2	53 14.4	53 21.8
LONGITUDE START	171 41.6E	171 42.6E	171 24.0E	171 5.5E	171 5.8E	170 45.0E	170 36.3E	170 42.8E	170 42.1E	170 33.6E
LATITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE END	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LORAN START										
LORAN START										
LORAN END										
LORAN END										
GEAR DEPTH	301	246	306	142	71	301	208	120	93	328
DURATION IN HOURS	1.00	1.00	0.73	1.00	0.38	0.95	1.00	0.86	1.00	1.00
DISTANCE FISHED	2.92	2.65	1.78	2.82	1.24	2.67	3.27	3.02	2.28	2.67
PERFORMANCE / GEAR	0 /716	0 /716	0 /716	0 /716	7 /716	0 /716	0 /716	0 /716	0 /716	0 /716
POLLOCK	0.0	0.0	0.0	57.8	255.3	0.0	1.1	2764.0	9303.5	0.0
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	0.0	0.0	0.0	2.2	797.6	0.0	0.0	385.0	200.8	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	1556.1	0.0	0.0	7.7	1494.7	0.0
SHORTRAKER RKFH	19.6	593.0	0.0	0.0	0.0	90.0	587.5	137.9	0.0	13.2
ROUGHEYE RKFH	0.0	0.0	0.0	8.2	0.0	0.0	13.2	16.2	0.0	0.0
SHORTSPINE TH	64.6	91.5	141.4	162.5	3.4	298.2	59.1	62.3	0.0	45.9
OTHER ROCKFISH	0.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	84.9	939.6	246.7	0.0	0.0	27.9	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	1.5	3649.2	0.0	0.0	3.4	2612.5	0.0
GIANT GRENADIER	4054.3	3159.2	1719.0	0.0	0.0	90.5	0.0	0.0	0.0	7350.2
SCULPINS	0.0	0.0	0.0	2.8	136.8	0.0	0.0	64.9	318.8	0.0
OTHER ROUNDFISH	81.4	1.9	59.5	22.7	71.6	163.5	1.5	4.5	37.4	261.3
TOTAL ROUNDFISH	4305.2	4785.2	2167.1	257.7	6470.0	670.1	662.4	3445.8	13967.7	7670.6
ARROWTOOTH FL	9.0	51.1	0.0	0.0	8.7	11.2	0.0	8.3	0.0	0.0
GREENLAND TURBOT	38.4	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	4.7	0.0	0.0	1.5	5.3	0.0
ROCK SOLE	0.0	0.0	0.0	1.1	52.1	0.0	0.0	4.1	67.7	0.0
REX SOLE	0.0	0.0	0.0	4.9	27.9	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	2.6
TOTAL FLATFISH	47.4	69.8	7.8	8.0	93.4	11.2	0.0	13.8	73.0	2.6
SKATES	0.9	22.0	63.4	220.5	40.5	23.2	3.3	71.7	112.4	46.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.9	22.0	63.4	220.5	40.5	23.2	3.3	71.7	112.4	46.3
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	4.2	1.8	45.2	0.0	3.3	0.0	58.7	78.5	2.6
SQUID	0.9	1.1	2.1	5370.5	0.0	0.0	28.2	282.8	61.7	0.0
OTHER INVERTS	0.2	5.3	17.8	0.0	0.0	0.0	0.2	0.0	9.5	0.2
TOTAL INVERTS	1.1	10.6	21.6	5415.7	0.0	3.3	28.4	341.5	149.7	2.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	4354.6	4887.6	2260.0	5901.9	6603.9	707.7	694.1	3872.9	14302.8	7722.3

SECTION C

Ranked CPUE's, Average Weight and Depth of Capture

of Species for NOAA vessels Miller Freeman,

Chapman, and R/V Daito Maru No. 38.

Guide to catch rates

Haul	station No.
Catch	pounds/hour
Average weight (Av wgt)	pounds
Gear depth	average depth in fathoms

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
151	1960.1	4.4	312
110	1386.7	5.7	219
155	1301.9	6.9	328
113	1222.0	9.4	219
60	1199.8	6.5	132
143	1137.8	2.4	120
190	799.2	4.7	82
116	771.4	4.6	219
71	760.6	10.7	201
218	727.1	6.1	355
154	718.3	6.5	328
35	654.3	2.6	93
98	653.0	5.8	302
172	610.7	3.7	120
56	559.5	4.8	234
144	554.5	1.7	87
82	544.1	1.6	93
147	521.5	6.5	219
170	492.3	3.4	120
109	426.4	4.2	355
135	378.5	8.6	208
236	357.2	7.2	202
187	347.0	3.6	137
253	331.8	2.9	219
108	326.9	3.3	219
76	316.0	9.0	291
81	315.7	1.8	99
219	311.7	5.8	383
226	300.9	5.7	219
193	290.4	7.2	328
104	275.6	4.9	209
177	272.3	4.2	126
105	253.5	3.6	344
188	246.0	4.6	191
132	245.8	9.1	219
178	244.1	1.7	93
168	243.6	3.9	120
28	231.0	8.6	132
68	213.4	4.4	93
54	207.7	12.2	338
91	206.8	1.5	88
181	204.7	4.7	252
169	202.8	1.4	87
225	200.0	6.7	284
79	198.0	1.2	99
123	191.4	3.1	99
156	171.1	1.7	87
161	166.9	2.9	120

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
114	160.5	7.5	355
242	156.1	9.8	120
233	153.7	4.5	295
173	151.5	2.1	93
9	147.3	1.0	93
86	144.6	4.7	338
102	144.6	1.6	88
73	135.4	7.1	302
10	134.0	1.4	137
83	133.4	1.5	121
29	133.2	5.3	219
247	120.6	1.9	98
117	119.9	4.0	344
245	118.6	1.7	131
87	118.2	2.7	121
11	115.3	1.2	99
162	112.4	1.1	93
106	109.3	2.1	121
111	106.7	5.1	338
72	106.3	8.0	355
52	103.6	10.4	219
129	103.2	1.8	77
122	102.5	4.6	219
150	102.5	1.9	126
240	100.8	2.6	120

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
31	1715.0	3.0	191
71	354.0	4.7	280
20	312.5	8.3	189
92	296.0	1.1	64
93	225.9	1.0	77
55	136.0	0.0	260
19	127.0	10.6	143
79	120.0	2.9	146
22	101.0	16.8	344

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
12	616.0	2.3	80
7	588.0	0.9	72
11	484.0	2.8	91
31	256.0	1.7	84
19	183.3	2.0	86
4	180.0	3.0	163
42	138.0	2.2	120
9	124.0	2.6	125
26	122.0	1.1	77
6	119.6	1.4	95
37	112.1	2.2	86
27	100.0	1.5	76

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES GREENLAND TURBOT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
109	3377.9	9.2	355
118	3221.0	6.1	338
112	2501.4	15.7	355
98	2408.8	5.9	302
116	2045.9	6.6	219
117	1491.7	7.8	344
110	1364.7	9.5	219
108	922.9	7.6	219
72	826.4	12.2	355
193	825.0	9.4	328
202	690.1	15.2	230
111	617.3	13.7	338
105	595.3	11.7	344
76	555.5	9.5	291
63	395.1	16.5	355
160	391.9	6.1	215
113	386.7	16.9	219
210	373.5	8.3	241
75	370.8	10.9	280
56	369.1	8.8	234
205	355.6	6.5	219
114	314.0	13.9	355
55	300.7	15.0	291
200	287.7	18.0	328
219	245.8	9.8	383
115	237.7	17.0	344
216	233.9	11.1	361
154	214.5	12.6	328
224	210.5	11.1	328
218	208.6	8.3	355
215	193.1	16.2	350
201	190.7	13.6	284
225	183.9	7.1	284
226	180.1	4.6	219
132	173.3	10.2	215
213	163.8	16.4	366
54	163.4	16.3	338
74	158.3	13.2	327
209	155.9	6.0	230
151	142.9	8.9	312
3	142.6	14.3	219
204	132.3	14.7	339
71	132.1	8.3	201
139	129.9	16.2	328
188	120.8	17.3	191
214	107.6	13.5	328
8	100.3	11.1	327
223	99.4	14.2	388

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES GREENLAND TURBOT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
71	1818.0	9.2	280
31	619.0	4.9	191
28	244.0	7.6	296
54	174.0	9.7	375
55	152.0	8.4	260
29	141.0	11.8	417

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
102	870.2	72.5	88
94	513.7	57.1	77
152	493.8	11.2	93
149	478.0	20.8	87
184	478.0	47.8	93
180	461.6	15.9	93
65	447.5	49.7	126
145	433.4	22.8	93
58	412.3	45.8	132
120	388.5	38.9	126
57	372.1	62.0	93
70	343.9	22.9	49
119	343.9	28.7	93
153	334.2	16.7	120
141	319.7	14.5	87
183	297.4	148.7	120
144	283.3	13.5	87
251	280.7	35.1	44
189	280.0	24.9	87
140	263.2	263.2	120
178	252.7	11.0	93
170	246.3	20.5	120
87	241.4	48.3	121
239	236.3	26.3	49
209	204.4	204.4	230
64	202.8	202.8	99
80	197.3	39.5	93
156	191.1	19.1	87
192	188.5	4.8	44
246	171.5	46.3	49
78	170.1	59.6	143
107	168.7	56.2	121
69	162.0	18.0	88
123	146.6	16.3	99
77	143.3	71.7	121
191	143.3	17.9	49
122	141.1	112.9	219
79	128.8	25.8	99
92	127.2	25.4	99
162	125.4	41.8	93
68	119.9	40.0	93
81	117.9	23.6	99
160	115.3	34.6	219
181	113.8	22.8	252
84	103.6	51.8	121
133	103.6	25.9	120
150	103.6	25.9	126
190	103.6	9.4	82

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
82	101.4	50.7	93

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
80	1306.0	19.2	84
40	582.4	13.2	53
20	395.0	31.6	189
79	375.8	94.0	146
18	364.0	22.8	108
81	333.5	86.7	204
36	323.2	13.5	101
50	296.6	21.2	78
65	276.0	12.5	52
33	201.0	20.1	54
35	187.2	18.7	82
1	175.0	21.0	76
49	174.8	29.1	63
8	136.4	5.2	83
83	127.0	63.5	100
44	126.0	3.2	44
86	124.0	62.0	118
73	111.0	27.8	103
90	104.8	26.2	138

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
19	1064.2	43.9	86
13	732.7	120.9	47
22	715.4	17.9	96
49	591.6	15.6	104
25	586.2	9.8	80
21	435.0	7.8	81
46	321.2	11.8	87
12	314.2	9.8	80
27	242.2	6.7	76
10	212.6	26.6	47
45	200.6	11.1	105
14	152.0	6.3	45
23	146.8	12.2	72
15	139.2	11.6	49
17	131.4	3.0	20
18	109.6	51.5	48

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES REX SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
104	353.6	1.3	209
188	308.2	1.2	191
128	109.6	0.6	115

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES REX SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
9	232.0	1.4	125
12	136.0	1.1	80

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
125	1382.3	1.0	126
128	1359.4	0.9	115
129	926.6	0.6	77
143	791.0	0.9	120
232	724.0	1.2	120
21	489.9	0.7	49
162	441.4	0.8	93
83	438.1	1.1	121
144	419.8	0.8	87
60	417.6	1.1	132
84	379.6	0.9	121
95	342.2	0.8	121
130	309.8	1.5	115
231	298.7	1.0	93
92	295.9	0.7	99
227	292.1	0.9	87
251	279.9	0.9	44
126	261.5	0.6	87
82	257.9	0.8	93
79	251.8	0.6	99
93	227.1	0.7	88
81	216.1	0.9	99
57	213.4	1.1	93
190	206.6	2.0	82
67	205.5	0.8	88
11	190.0	0.7	99
119	183.2	1.4	93
141	181.9	1.5	87
124	165.8	0.7	93
96	162.7	0.8	121
87	160.5	0.8	121
161	155.6	0.9	120
192	155.6	1.0	44
169	151.2	0.9	87
66	149.0	1.0	93
173	144.8	1.2	93
138	142.6	1.1	93
136	140.2	1.1	120
58	138.5	1.5	132
137	131.6	0.9	87
46	129.6	1.3	99
191	127.0	1.2	49
247	125.9	2.2	98
59	124.8	1.3	137
35	109.3	1.3	93
159	108.5	0.7	44
94	107.4	2.0	77
149	107.4	1.0	87

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
41	107.1	1.4	82
168	103.6	0.9	120

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
10	1009.0	0.6	71
7	757.0	1.0	135
25	720.0	0.7	81
92	716.0	0.5	64
41	656.0	1.3	84
93	507.4	0.6	77
43	426.0	0.4	73
63	394.0	0.4	75
62	392.0	1.0	170
8	377.0	0.6	83
36	343.0	0.8	101
60	339.0	1.5	114
40	336.0	0.6	53
94	332.0	0.7	103
59	322.0	0.6	106
35	296.0	0.8	82
65	278.0	0.4	52
17	256.0	1.5	97
6	237.5	0.6	75
70	234.0	0.8	90
69	220.0	0.7	120
34	214.0	1.0	122
77	210.0	0.8	84
2	196.0	0.7	109
95	190.0	0.8	143
64	183.3	0.6	59
96	172.0	0.7	119
67	152.0	0.6	82
53	146.0	0.6	100
11	144.0	0.8	115
23	135.3	0.5	114
99	134.2	0.7	95
98	109.0	0.7	90
46	102.2	0.5	51

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
16	360.0	1.1	51
15	272.0	0.9	49
35	229.4	0.6	81
28	180.0	0.8	107
7	170.0	0.8	72
10	164.0	0.6	47
18	155.3	0.5	48
2	128.0	0.7	80
5	128.0	0.8	54
13	121.2	0.5	47
33	112.0	1.1	123
6	104.8	0.5	95
14	104.0	1.1	45

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
118	13799.0	3.9	338
119	10677.7	7.8	93
100	3035.3	5.6	143
99	2648.6	5.2	99
108	2430.1	4.9	219
136	2087.8	5.3	120
175	1535.7	6.8	317
176	1139.8	4.2	219
123	1036.6	4.9	99
193	1022.2	4.6	328
167	955.7	6.1	339
255	939.6	7.2	246
151	860.5	5.5	312
163	854.1	3.3	230
105	852.8	5.3	344
166	830.3	4.1	252
98	805.1	4.0	302
179	781.4	7.4	120
138	762.4	7.3	93
147	724.3	6.0	219
154	659.2	6.4	328
116	656.8	4.5	219
171	655.7	5.3	241
86	610.7	6.6	338
164	551.4	5.9	372
165	478.6	5.4	339
185	448.0	4.4	202
188	443.8	6.5	191
120	415.8	6.9	126
153	391.1	6.5	120
114	390.4	6.2	355
181	384.3	4.8	252
110	359.8	5.5	219
139	325.2	4.9	328
8	323.6	9.8	327
104	317.5	6.2	209
112	312.6	6.4	355
90	293.2	5.9	126
186	277.3	6.0	328
155	274.5	6.1	328
111	270.7	6.3	338
109	264.1	5.0	355
256	246.7	8.6	306
117	237.2	5.3	344
177	228.4	4.7	126
53	221.9	8.0	327
141	217.6	6.2	87
72	212.1	6.6	355

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
4	207.2	11.3	327
142	205.3	7.1	120
73	204.1	7.0	302
137	201.1	5.7	87
202	189.6	10.9	230
182	180.3	5.2	339
30	171.1	12.2	338
85	168.9	3.2	219
178	167.8	4.7	93
160	165.3	4.1	219
115	158.7	5.1	344
51	155.6	4.7	355
131	154.5	8.5	339
132	149.0	5.5	219
74	135.8	6.8	327
54	102.3	10.2	338

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
71	1004.0	4.8	280
55	477.0	6.6	260
88	423.0	6.0	340
54	348.0	7.3	375
84	192.0	4.6	385
22	186.0	8.5	344
27	145.0	6.0	395

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
31	592.0	3.0	84
6	448.4	6.6	95
5	192.0	2.4	54
4	104.0	4.3	163
7	104.0	8.7	72

1983 ALEUTIAN ISLANDS SURVEY

SPECIES PACIFIC COD

HAUL	LB/1.0 HR	(LB)	GEAR (FM)
20	14725.2	10.1	99
177	12599.7	6.6	87
141	11677.9	13.3	87
189	7925.6	10.7	87
217	7335.7	6.0	120
40	5501.4	9.7	82
149	4898.7	9.8	87
48	4711.4	7.5	84
161	4140.4	11.4	77
102	3541.5	8.3	88
47	3323.5	7.0	77
58	3014.5	10.6	120
190	2831.3	4.8	49
150	1920.9	6.5	126
80	1802.9	9.7	93
220	1709.9	8.3	87
81	1712.4	8.5	99
190	1663.2	4.7	82
183	1650.6	6.3	120
174	1593.3	7.0	93
186	1379.9	6.0	93
187	1358.4	10.4	137
87	1352.8	12.9	121
232	1305.0	10.0	120
230	1232.8	13.3	87
148	1145.1	4.5	87
237	1092.0	6.6	93
235	1073.0	3.1	99
44	995.4	6.6	79

1983 ALEUTIAN ISLANDS SURVEY

SPECIES PACIFIC COD

HAUL	LB/1.0 HR	(LB)	GEAR (FM)
107	843.1	9.1	121
243	787.3	12.3	87
251	755.5	5.1	44
156	701.1	3.0	93
85	682.6	5.3	121
180	648.2	7.6	93
207	614.7	9.0	93
158	548.3	7.4	66
83	513.1	3.6	121
140	479.4	4.6	120
41	437.9	8.1	99
143	404.3	3.8	120
10	399.0	6.3	137
166	392.1	6.7	87
42	366.4	5.6	77
178	352.1	5.5	93
84	340.0	4.7	121
46	320.7	8.3	101
88	320.0	6.1	115
68	288.4	9.6	93
133	259.3	3.1	120
173	247.8	6.7	87
130	236.0	6.4	115
19	226.0	2.1	49
124	208.8	3.1	82
209	197.4	7.1	99
65	186.5	5.7	126
103	177.8	6.3	121

1983 ALEUTIAN ISLANDS SURVEY

SPECIES PACIFIC COD

HAUL	LB/1.0 HR	(LB)	GEAR (FM)
9	169.3	7.7	93
23	165.1	6.8	87
200	162.3	3.8	132
198	158.7	7.3	121
46	157.4	4.4	99
15	148.6	8.3	88
88	137.6	12.5	88
30	133.8	8.0	143
60	131.0	9.4	132
39	113.3	8.1	132
220	107.6	3.3	49
170	105.1	5.3	88

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
91	4524.0	13.4	101
80	4520.0	13.5	84
99	2921.1	10.5	95
18	2680.0	11.7	108
70	2000.0	5.3	90
53	1388.0	5.4	100
83	730.0	7.9	100
46	708.7	1.3	51
38	668.0	5.1	101
59	644.0	17.9	106
77	635.0	2.4	84
69	600.0	6.4	120
82	584.0	5.8	134
25	560.0	1.5	81
41	542.0	2.9	84
60	530.0	5.9	114
40	462.2	1.9	53
78	435.0	4.7	116
74	422.0	4.1	138
61	410.0	6.6	118
45	406.2	2.8	50
47	388.0	2.5	110
73	378.0	3.4	103
24	348.0	3.6	125
92	340.0	10.6	64
87	337.0	5.8	150
79	333.0	4.2	146
34	332.0	7.2	122
98	322.0	3.9	90
56	304.0	4.9	136
6	300.0	4.0	75
39	300.0	0.8	72
93	277.8	9.4	77
14	266.0	4.4	148
23	264.7	3.8	114
43	252.0	2.3	73
1	250.8	2.5	76
16	234.0	3.3	112
65	234.0	2.1	52
58	230.0	3.2	84
94	226.0	8.1	103
72	208.0	5.0	150
52	186.0	2.1	59
8	179.0	4.5	83
17	176.0	2.2	97
86	152.0	4.8	118
63	135.0	3.8	75
64	131.0	1.3	59

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
57	120.0	3.3	81
19	117.0	4.2	143
44	114.0	1.0	44
10	113.0	3.3	71
35	112.0	2.5	82
51	112.0	1.6	105
49	102.0	1.3	63

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
49	3266.0	5.0	104
27	3010.0	6.1	76
6	2908.0	14.0	95
5	2640.0	3.8	54
21	2582.0	3.3	81
26	1792.0	4.5	77
23	1720.0	5.8	72
45	1674.0	6.9	105
46	1512.1	4.8	87
9	1496.0	12.9	125
2	1249.0	7.5	80
22	1156.0	4.2	96
29	1118.0	7.2	96
3	916.0	8.2	115
35	911.8	12.9	81
7	894.0	5.4	72
44	768.0	7.1	109
12	766.0	3.5	80
20	646.0	4.5	114
42	638.0	6.8	120
11	622.0	3.4	91
37	475.8	7.9	86
33	376.0	6.7	123
43	365.0	9.1	123
30	343.8	5.5	113
13	269.7	3.1	47
34	236.0	6.6	140
28	234.0	5.6	107
17	220.0	6.9	20
10	165.0	3.4	47
32	110.0	5.5	78
1	109.6	4.6	47

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
138	68299.4	1.9	93
80	59104.4	1.9	93
123	42757.7	1.7	99
137	41535.2	1.8	87
142	41061.3	2.1	120
150	29938.9	2.2	126
69	28663.7	1.7	88
82	28329.9	1.8	93
50	26629.5	1.5	132
153	25344.4	2.1	120
99	23463.2	4.4	99
232	22934.8	1.8	120
143	22553.4	2.0	120
170	21155.6	1.9	120
81	20694.9	1.5	99
130	18545.3	1.9	115
92	16132.6	1.7	99
23	15571.1	1.7	93
172	15322.2	1.8	120
136	15048.8	2.0	120
134	14691.7	1.8	93
190	14279.4	1.5	82
168	13955.3	1.8	120
68	13455.3	1.7	93
58	12090.2	0.5	132
87	11702.6	1.8	121
189	11648.8	2.1	87
11	11377.0	1.1	99
24	9827.8	2.2	132
262	9303.5	1.8	93
107	9146.1	1.7	121
126	8891.3	1.7	87
247	8587.0	1.1	98
15	8098.9	1.6	99
183	7967.5	1.5	120
45	6765.8	1.9	137
133	6091.4	1.9	120
177	5937.1	1.9	126
57	5545.5	0.6	93
144	5480.7	0.7	87
60	5242.6	1.7	132
240	5161.0	2.2	120
179	5041.2	1.6	120
156	4649.6	0.9	87
187	4647.4	1.9	137
28	4430.0	2.2	132
96	4395.9	2.0	121
39	4348.4	1.8	132

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
10	4333.0	1.0	137
95	4319.3	1.7	121
128	4307.3	1.8	115
129	3977.2	1.7	77
246	3862.2	0.0	49
251	3780.3	1.1	44
49	3772.8	1.8	132
140	3712.6	2.1	120
9	3688.8	1.4	93
27	3654.8	2.2	101
244	3646.5	1.0	87
158	3481.1	0.7	66
238	3252.9	1.9	87
249	3225.4	1.4	120
124	3135.0	1.8	93
21	2982.2	1.1	49
261	2764.0	1.7	120
85	2748.7	1.9	121
125	2716.1	1.9	126
252	2705.1	1.6	120
83	2575.5	1.7	121
188	2559.6	2.2	191
6	2361.4	1.2	143
79	2350.6	1.6	99
35	2306.5	1.8	93
245	2233.3	1.3	131
26	2224.4	2.1	99
161	2149.5	2.4	120
38	2142.0	1.7	143
17	2116.0	1.7	99
231	2073.9	1.2	93
20	1973.4	1.4	90
157	1769.3	1.7	126
64	1740.8	1.9	99
227	1687.2	1.8	87
100	1563.1	2.5	143
106	1563.1	1.5	121
250	1425.0	1.1	66
101	1300.8	0.7	93
103	1221.3	1.4	121
16	1146.8	1.8	132
36	1077.3	1.6	99
90	1035.3	2.0	126
93	1029.6	1.5	88
237	768.3	0.8	87
220	688.5	1.7	93
152	623.9	1.2	93
59	572.3	2.0	137

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
243	520.5	2.0	87
84	509.5	1.8	121
120	470.5	1.8	126
65	441.8	1.7	126
122	402.4	2.4	219
88	396.8	2.1	143
67	377.4	1.5	88
180	329.6	1.7	93
46	315.3	0.7	99
148	286.0	0.7	87
47	280.5	0.5	77
77	266.8	1.6	121
235	256.1	1.6	120
104	255.7	2.0	209
258	255.3	0.0	71
66	235.5	1.0	93
208	234.8	0.7	68
37	213.4	1.3	93
242	206.6	2.0	120
70	173.3	1.5	49
7	163.4	1.4	219
33	133.6	0.7	99
145	133.4	0.9	93
94	126.5	1.5	77
97	119.0	2.2	190

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
32	27265.0	1.8	147
17	17968.0	1.5	97
2	9446.2	1.6	109
69	6490.0	1.6	120
25	4592.0	1.7	81
70	4302.0	1.5	90
93	3548.1	1.6	77
23	2370.6	1.8	114
16	2244.0	2.0	112
24	2089.0	2.0	125
51	2056.0	0.4	105
67	1936.0	1.4	82
6	1913.1	1.6	75
15	1652.0	1.6	101
60	1237.0	2.2	114
73	1090.0	2.3	103
83	1053.0	1.8	100
34	1034.0	0.5	122
19	1008.0	1.6	143
98	982.0	1.7	90
18	795.8	1.7	108
39	700.0	0.5	72
61	678.0	2.2	118
59	596.0	1.8	106
52	566.0	1.6	59
74	484.0	2.1	138
94	476.0	1.8	103
86	457.0	2.0	118
78	452.0	1.6	116
91	396.0	1.8	101
7	390.0	1.7	135
96	353.0	1.7	119
36	242.0	1.6	101
14	228.0	1.9	148
90	193.0	1.5	138
50	191.0	0.4	78
97	150.0	1.8	107
45	142.0	1.2	50
95	110.0	1.6	143

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
32	26942.4	1.7	78
5	25232.0	1.8	54
6	16716.4	1.7	95
35	16141.2	1.7	81
3	3088.0	1.5	115
9	3080.0	1.8	125
34	2472.0	2.0	140
42	1874.0	1.8	120
29	1296.0	1.7	96
31	1100.0	1.7	84
12	718.0	1.6	80
43	665.0	1.6	123
11	574.0	1.7	91
7	368.0	1.8	72
4	358.0	1.7	163
28	298.0	2.1	107
30	118.8	2.4	113
33	118.0	1.9	123
37	115.2	0.6	86

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES ATKA MACKEREL

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
121	73490.7	1.8	77
40	41805.7	1.4	82
70	31100.7	1.3	49
23	28815.4	1.6	93
1	25181.1	0.7	99
5	24931.4	0.8	93
48	17274.3	1.2	51
174	15864.5	1.9	41
221	12946.3	1.1	44
239	10055.3	1.1	49
43	8890.4	2.5	90
41	8658.9	1.4	82
247	8235.4	1.5	98
34	6754.5	1.1	82
258	3649.2	0.0	71
32	2789.6	1.1	49
262	2612.5	0.7	93
2	2567.1	0.9	143
35	2325.7	0.8	93
251	2223.5	1.3	44
137	2211.2	1.3	87
6	2198.9	0.9	143
153	1386.5	1.6	120
47	1322.3	1.1	77
140	1270.3	1.0	120
138	1266.3	1.4	93
180	1162.9	2.0	93
246	1145.6	0.8	49
100	593.7	1.7	143
152	519.0	1.5	93
9	434.6	1.3	93
49	453.3	1.3	132
99	435.2	1.4	99
44	310.9	1.2	79
3	261.7	0.9	219
42	220.0	1.3	77
68	218.0	1.7	93
149	212.7	1.5	87
243	169.1	1.3	87
250	135.2	1.3	66
145	109.8	1.3	93

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES ATKA MACKEREL

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
32	14218.4	1.7	78
35	2305.9	1.2	81
49	266.0	1.8	104

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
209	720.5	2.3	230
54	674.6	3.5	338
234	461.2	2.3	317
98	435.6	1.2	302
31	366.4	2.3	344
233	347.2	3.0	295
71	342.2	1.4	201
53	328.2	1.6	327
25	327.2	1.2	198
259	298.2	1.2	301
8	293.4	0.5	327
76	293.2	0.9	291
14	289.4	0.8	316
127	254.6	1.8	328
51	224.4	1.9	355
139	217.4	1.4	328
188	215.2	0.8	191
253	199.5	1.1	219
176	192.5	2.3	219
73	191.8	0.9	302
164	188.9	1.8	372
108	187.7	1.7	219
72	175.9	1.0	355
167	173.3	1.4	339
199	171.3	1.6	355
202	166.9	1.1	230
165	166.9	1.3	339
193	165.9	1.1	328
257	162.5	1.0	142
171	156.9	1.1	241
86	153.4	0.9	338
104	142.9	0.9	209
256	141.4	0.9	306
69	140.7	1.4	219
210	136.0	1.1	241
62	131.0	2.3	355
13	130.3	0.9	355
218	127.6	2.0	355
224	118.6	2.9	328
30	114.9	1.7	338
166	114.2	1.4	252
29	113.8	1.6	219
114	112.9	3.3	355
200	110.2	1.4	328
211	108.1	1.3	150
74	107.6	1.3	327
205	107.4	0.9	219
18	107.1	1.2	230

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
132	102.5	1.3	219
75	102.3	1.4	280

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
71	175.0	0.7	280
76	129.0	0.7	223
20	128.8	2.6	189
54	118.0	2.4	375
30	100.0	2.8	373

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES ROUGHEYE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
34	2509.1	2.4	82
110	1488.1	3.1	219
90	1404.8	1.3	126
44	1188.9	1.1	79
211	1089.3	3.6	150
49	1033.1	1.2	132
108	939.9	2.7	219
37	799.6	1.9	93
107	774.3	2.3	121
187	754.9	1.4	137
89	701.1	2.1	219
50	673.3	1.3	132
147	664.3	2.4	219
71	537.9	2.4	201
176	537.5	2.2	219
113	480.0	2.7	219
24	444.2	1.9	132
103	412.3	1.4	121
78	309.9	1.8	143
188	296.7	2.7	191
35	293.7	2.6	93
116	278.2	3.9	219
52	257.5	2.8	219
29	256.2	2.9	219
45	253.5	2.1	137
68	233.7	1.6	93
97	211.7	2.1	190
236	205.2	2.9	202
104	198.0	3.3	209
132	197.0	2.6	219
91	182.5	1.5	88
1	180.8	2.2	99
206	171.1	2.7	131
183	162.5	1.9	120
47	150.5	1.9	77
23	136.7	1.8	93
106	131.4	1.7	121
25	128.1	2.2	198
100	106.7	2.4	143
242	98.8	1.4	120
26	94.6	2.1	99
135	79.6	1.1	208
128	79.4	1.3	115
6	69.2	2.7	143
5	66.7	2.0	93
177	65.7	1.9	126
243	63.5	1.0	87
36	62.2	2.3	99

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES ROUGHEYE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
81	315.4	2.1	204
76	236.0	2.2	223
31	216.0	3.2	191
20	193.8	3.1	189
56	148.0	1.0	136
21	130.2	3.1	186
4	130.0	3.3	206
89	115.8	2.9	203

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
189	70107.3	1.0	87
123	23478.4	0.8	99
172	13452.7	0.8	120
23	12751.1	0.8	93
187	12632.5	1.5	137
43	9524.0	0.6	90
163	8454.8	0.7	120
1	8198.6	0.8	99
107	7844.1	1.3	121
106	6682.2	1.5	121
102	6591.4	0.8	88
103	5560.0	1.3	121
60	5131.9	3.2	132
64	5090.3	0.7	99
34	4579.2	1.1	82
170	4468.8	1.2	120
45	4124.9	1.0	137
177	3840.5	1.0	126
168	3611.2	1.8	120
190	3602.4	0.8	82
179	3569.0	0.9	120
180	3463.5	0.9	93
36	3098.2	1.0	99
96	3049.0	1.5	121
50	3018.1	0.7	132
24	2752.3	1.4	132
97	2604.3	1.4	190
150	2389.8	1.7	126
91	2297.2	0.6	88
58	2255.3	1.4	132
49	2235.3	0.8	132
140	2097.5	0.8	120
44	2037.6	0.6	79
178	1942.7	0.6	93
100	1934.3	1.2	143
206	1835.1	1.4	131
157	1619.3	0.6	126
211	1580.4	1.8	150
84	1579.4	1.4	121
184	1547.7	0.6	93
142	1523.4	1.1	120
65	1497.4	1.2	126
5	1383.8	0.5	93
136	1200.6	1.2	120
148	1191.1	1.7	87
77	1125.2	1.6	121
188	1105.8	1.4	191
37	1060.9	0.8	93

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
252	1060.4	1.3	120
161	1050.1	0.9	120
27	983.0	1.5	101
133	972.7	0.8	120
26	934.2	1.8	99
68	921.1	1.3	93
69	910.5	0.9	88
242	877.9	0.9	120
94	838.6	3.0	77
39	798.1	1.1	132
258	797.6	0.0	71
85	562.3	1.1	121
93	560.9	0.4	88
245	520.6	1.0	131
47	530.8	0.7	77
173	528.7	0.7	93
83	517.5	1.3	121
57	515.9	0.6	93
162	496.9	0.6	93
33	491.2	1.5	99
240	467.8	1.4	120
119	447.1	0.7	93
137	445.8	0.9	87
90	437.4	1.1	126
38	420.6	1.1	143
261	385.0	1.1	120
78	384.9	0.9	143
104	355.4	1.7	209
35	349.7	1.4	93
247	330.0	0.7	98
92	311.3	1.0	99
143	307.1	1.1	120
67	266.8	1.4	88
207	257.9	2.3	87
66	253.5	1.5	93
42	249.6	1.7	77
87	242.5	0.5	121
2	237.7	1.0	143
28	236.3	1.7	132
138	221.8	1.1	93
262	200.8	0.9	93
40	200.6	1.0	82
41	196.2	0.7	82
249	175.3	0.6	120
156	166.7	1.0	87
120	164.9	0.9	126
46	158.3	1.3	99
59	147.3	1.5	137

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
153	133.8	1.1	120
124	129.6	0.7	93
88	124.8	0.9	143
82	122.6	0.7	93
6	113.8	0.8	143
220	103.2	0.8	93

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
91	6950.0	1.5	101
99	5043.9	0.9	95
17	4624.0	0.8	97
96	1315.0	1.6	119
56	1042.0	1.5	136
47	828.0	1.8	110
72	246.0	1.5	150
95	171.0	1.6	143
69	158.0	1.2	120
24	124.0	0.9	125
23	117.6	1.0	114
90	111.0	1.7	138

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
20	3824.0	1.2	114
34	1996.0	2.3	140
9	1156.0	1.7	125
43	1000.0	1.4	123
33	444.0	2.0	123
44	364.0	1.7	109

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES NORTHERN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
246	44231.5	0.6	49
44	8663.9	0.9	79
48	6816.4	0.8	51
36	6681.8	1.4	99
239	5749.9	1.1	49
32	3113.8	0.6	49
221	2534.8	1.0	44
208	2275.2	0.7	68
68	2198.5	0.8	93
102	2180.4	0.1	88
47	1946.8	0.9	77
174	1887.2	0.6	41
184	1557.6	1.4	93
258	1556.1	0.0	71
262	1494.7	0.7	93
34	1383.0	1.2	82
250	1288.4	0.8	66
67	917.6	1.1	88
5	800.0	0.7	93
1	730.6	0.5	99
70	642.0	1.0	49
35	617.7	0.9	93
148	542.0	0.8	87
50	532.2	1.1	132
7	373.2	0.8	219
42	367.3	1.0	77
40	307.3	1.2	82
189	293.5	1.1	87
220	210.9	0.5	93
37	204.6	0.9	93
23	198.4	1.2	93
207	125.5	0.9	87
190	101.4	1.2	82
103	93.3	2.9	121
101	85.6	1.0	93
69	85.1	0.7	88
33	82.9	0.8	99
138	76.7	0.7	93
41	62.6	1.1	82
248	62.0	0.5	49
43	58.6	1.0	90
119	56.0	1.3	93
57	51.6	0.9	93
137	37.0	0.8	87
185	33.5	1.3	202
134	32.6	0.8	93
136	32.6	0.8	120
80	31.7	0.7	93

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES NORTHERN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
99	161.4	1.2	95
34	148.0	0.7	122
18	106.0	2.5	108
17	96.0	0.7	97
2	50.0	1.3	109
25	48.0	0.4	81
79	18.0	0.6	146
78	14.0	0.6	116
96	13.0	0.7	119
6	12.5	1.0	75
35	11.0	0.6	82
72	11.0	0.8	150
69	10.0	1.0	120
95	9.0	0.6	143
1	8.3	1.0	76
59	8.0	0.7	106
64	7.1	3.0	59
36	7.0	0.6	101
77	7.0	0.7	84
23	5.9	1.0	114
19	5.0	0.8	143
82	5.0	0.8	134
83	5.0	0.6	100
97	5.0	0.6	107
21	4.6	1.2	186
87	4.2	0.7	150
98	4.0	0.5	90
32	3.6	0.9	147
24	3.0	0.4	125
46	2.2	0.3	51
16	2.0	1.0	112
53	2.0	0.5	100
58	2.0	0.3	84
61	2.0	1.0	118
62	2.0	1.0	170
67	2.0	0.5	82
90	2.0	0.3	138
8	1.0	0.5	83
43	1.0	0.3	73
52	1.0	0.3	59
57	1.0	0.5	81
86	1.0	0.5	118
45	0.6	0.3	50

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
108	4814.9	5.3	219
7	3621.8	1.4	219
188	3434.8	14.2	191
97	3215.8	6.5	190
147	2944.3	4.7	219
110	2806.9	6.9	219
25	1710.8	3.3	198
187	1582.9	18.8	137
236	1099.1	5.5	202
160	811.8	3.1	219
176	767.0	1.8	219
89	755.7	5.0	219
255	593.0	2.2	246
260	587.5	3.8	208
52	532.6	4.6	219
203	531.3	7.5	208
193	477.7	5.0	328
18	419.3	11.6	230
90	408.7	6.5	126
135	403.4	4.7	208
148	351.4	5.0	87
104	336.0	9.1	209
29	315.7	3.2	219
132	304.2	2.5	219
226	292.1	3.9	219
76	244.7	4.0	291
113	234.3	9.1	219
53	196.4	3.9	327
175	186.7	2.2	317
3	168.2	2.5	219
155	161.8	3.5	328
12	149.5	11.5	223
139	146.8	1.7	328
4	138.2	2.6	327
30	138.0	2.1	338
261	137.9	4.6	120
54	122.1	3.1	338
88	111.1	3.7	143
98	111.1	7.4	302
171	103.3	2.8	241
73	100.1	8.3	302

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
76	1195.0	2.5	223
81	1140.4	3.1	204
75	521.7	2.7	180
37	420.0	5.7	234
55	408.0	3.0	260
62	404.0	5.5	170
56	396.0	8.3	136
89	250.0	3.2	203
72	151.0	5.0	150
38	133.3	2.4	318

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES GOLDEN KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
60	96.1	5.3	132
20	89.7	5.6	90
262	78.5	4.4	93
142	75.8	5.5	120
34	69.7	6.3	82
10	64.4	5.4	137
64	60.8	4.7	99
261	58.7	3.9	120
50	58.2	4.8	132
140	57.3	4.4	120
103	55.2	4.1	121
185	53.6	3.4	202
41	47.2	5.9	82
45	47.2	3.9	137
257	45.2	2.4	142
49	42.3	4.2	132
239	41.7	1.9	49
40	40.1	6.7	82
252	36.8	4.1	120
249	34.2	2.1	120
83	33.6	3.4	121
184	32.6	3.6	93
78	32.1	5.6	143
23	31.9	4.8	93
71	30.2	3.8	201
6	29.1	2.1	143
68	29.1	4.8	93
250	29.0	2.4	66
58	26.9	5.4	132
5	26.4	4.0	93
25	26.2	1.6	198
186	25.1	2.9	328
24	24.7	4.1	132
85	24.7	2.5	121
31	22.9	1.6	344
38	22.0	2.4	143
65	20.3	3.4	126
77	20.3	3.4	121
27	19.6	3.3	101
232	19.0	4.8	120
61	18.1	4.5	338
74	18.1	6.0	327
81	18.1	6.0	99
238	17.2	2.9	87
227	16.3	4.1	87
2	15.9	4.0	143
67	15.9	8.0	88
234	15.4	3.9	317

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES GOLDEN KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
57	15.0	7.5	93
242	14.3	3.6	120
18	14.1	1.8	230
84	13.7	3.4	121
104	13.7	2.7	209
69	12.6	6.3	88
136	11.9	6.0	120
28	11.2	3.7	132
206	10.8	3.6	131
207	10.6	4.1	87
219	10.6	1.8	383
231	10.6	3.5	93
131	10.6	2.3	339
26	10.3	3.1	99
236	10.3	3.9	202

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES GOLDEN KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
25	1722.0	5.0	81
24	252.0	4.5	125
36	171.0	2.5	101
34	134.0	2.0	122
16	130.0	3.4	112
23	123.5	7.0	114
79	82.0	4.6	146
32	54.0	2.0	147
52	50.0	8.3	59
37	26.7	2.0	234
31	24.0	2.0	191
21	23.6	3.9	186
76	19.0	1.0	223
20	18.8	1.5	189
75	15.8	1.4	180
73	14.0	3.5	103
56	12.0	6.0	136
2	10.2	1.7	109
4	10.0	2.5	206

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES GOLDEN KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
45	23.0	3.8	105
44	20.0	3.3	109
34	18.0	0.9	140

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES RED KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
96	178.6	2.7	121
124	35.3	3.2	93
21	7.1	7.1	49
125	6.6	6.6	126
45	6.4	6.4	137
64	4.9	4.9	99
146	4.9	4.4	49
126	3.3	3.3	87

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES RED KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
15	32.0	5.3	49
16	20.0	5.0	51
24	6.0	3.0	40

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SNOW CRABS

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
50	140.0	0.5	78
43	50.0	1.0	73
51	39.0	0.7	105
44	25.0	0.3	44
54	16.0	2.0	375
52	8.0	0.1	59
63	5.0	0.4	75
67	5.0	0.3	82
64	4.8	0.0	59
42	4.0	0.2	65
65	2.0	0.3	52
34	1.0	0.2	122
68	1.0	0.1	65
74	1.0	0.2	138
49	0.6	0.3	63
7	0.4	0.1	135
11	0.4	0.2	115
33	0.4	0.2	54
45	0.4	0.2	50
73	0.4	0.2	103
32	0.2	0.1	147
35	0.2	0.1	82

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SCALLOP (CHLAMYS SPECIES)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
77	102.0	0.0	84
41	50.0	0.0	84
52	40.0	0.2	59
36	30.0	0.1	101

1983 ALEUTIAN ISLANDS SURVEY
R/V CHAPMAN

SPECIES SCALLOP (CHLAMYS SPECIES)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
29	136.0	0.0	96
5	16.0	0.1	54
26	16.0	0.0	77
8	8.0	0.1	52
27	4.0	0.0	76
7	2.0	0.2	72
9	0.8	0.1	125
25	0.7	0.0	80
19	0.6	0.1	86
1	0.2	0.1	47
2	0.2	0.1	80

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES WEATHERVANE SCALLOP

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
64	297.6	0.0	59

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SCALLOP UNIDENT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
42	72.0	0.0	65

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES RED SQUID (=MAJESTIC SQUID)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
2	7268.2	2.5	143
6	7081.7	1.6	143
257	5370.5	1.5	142
3	1244.5	1.3	219
136	1011.5	1.0	120
16	676.8	1.5	132
17	474.9	1.4	99
134	450.4	1.4	93
166	441.6	1.0	252
261	282.8	1.3	120
133	254.9	1.4	120
1	191.8	1.3	99
171	175.4	0.9	241
10	135.4	1.2	137
132	134.0	1.3	219
18	118.8	1.0	230
135	118.4	1.0	208
25	118.2	1.3	198
116	115.5	0.9	219
176	114.0	1.3	219
15	110.0	1.5	99
128	103.1	1.2	115
127	88.2	1.1	328
167	81.6	0.8	339
193	73.4	1.0	328
185	66.1	0.6	202
205	61.7	0.9	219
262	61.7	1.5	93
143	60.8	1.0	120
137	59.5	1.2	87
177	58.9	0.7	126
125	57.1	1.2	126
130	55.1	0.0	115
12	51.1	0.9	223
163	50.7	0.9	230
11	47.2	0.9	99
96	42.3	0.7	121
210	41.9	1.2	241
165	39.7	0.9	339
97	37.5	0.8	190
172	35.3	0.8	120
245	33.1	1.7	131
29	31.3	1.1	219
140	30.9	0.9	120
105	29.1	0.9	344
260	28.2	1.2	208
108	26.4	1.0	219
9	24.7	1.2	93

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES SQUID UNIDENT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
63	190.0	95.0	75
12	148.0	0.0	225

1983 ALEUTIAN ISLANDS SURVEY
R/V DAITO MARU NO .38

SPECIES MOROTEUTHIS ROBUSTA

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
151	325.2	65.0	312
225	282.2	56.4	284
12	239.9	60.0	223
118	200.5	40.1	338
116	180.3	45.1	219
135	175.7	87.9	208
30	164.5	82.3	338
53	159.2	71.7	327
31	144.6	48.2	344
56	124.8	41.6	234
131	122.7	108.0	339
226	120.2	40.1	219
7	119.9	60.0	219
171	113.4	79.4	241
153	105.8	105.8	120
139	105.4	52.7	328
111	102.3	51.1	338

1983 ALEUTIAN ISLANDS SURVEY
R/V MILLER FREEMAN

SPECIES MOROTEUTHIS ROBUSTA

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
45	322.2	161.1	50
59	302.0	151.0	106
37	226.7	34.0	234
31	211.0	35.2	191
43	210.0	105.0	73
87	110.0	55.0	150