Northwest and Alaska Fisheries Center

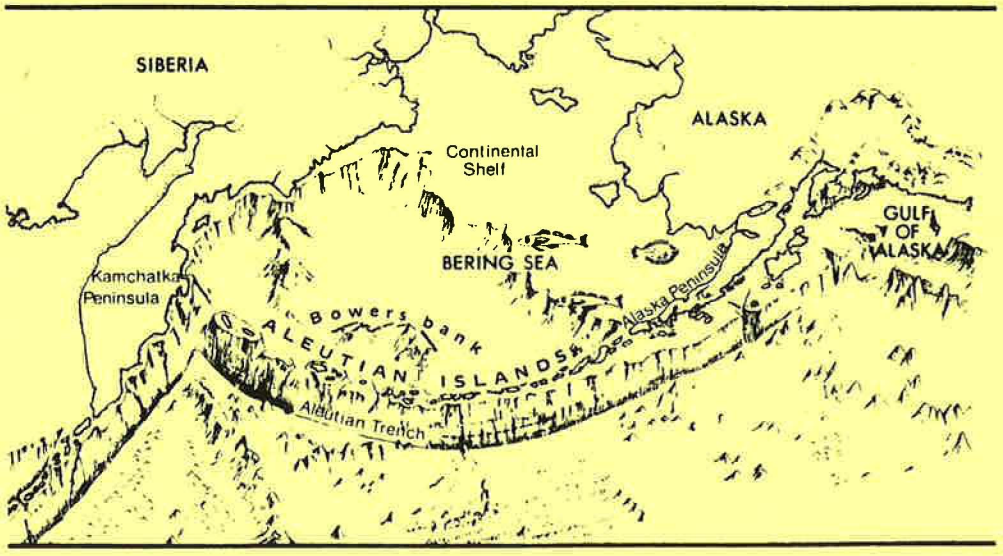
National Marine Fisheries Service

U.S. DEPARTMENT OF COMMERCE

NWAFC PROCESSED REPORT 87-17

Fishing Log: U.S. - Japan Cooperative Bottom Trawl Survey of the Groundfish Resources of the Aleutian Islands, May-September, 1986

October 1987



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Fishing Log: U.S.-Japan Cooperative Bottom Trawl Survey of the Groundfish Resource of the Aleutian Islands, May - September, 1986

by

Ronald A. Payne, Kiyoshi Wakabayashi,

James Long, and Kei-ichi Mito

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INTRODUCTION

From May 14 to September 18, of 1986, the third triennial survey of the groundfish resources of the Aleutian Islands was completed by scientists from the Northwest and Alaska Fisheries Center, Seattle, WA, National Marine Fisheries Service, and the Far Seas Fisheries Research Laboratory Shimizu, Japan, Fisheries Agency of Japan. Two chartered commercial fishing vessels, the Lets Go and Ginryu Maru No. 5, used otter trawls to survey the Continental Shelf and slope from Stalemate Bank west of Attu I to Unimak Pass including Bowers Ridge (Table 1).

The objectives of the 1986 survey were to (1) describe to distribution and relative abundance of the principle groundfish and invertebrate species inhabiting the survey area, (2) estimate the absolute abundance of these species, (3) collect data to define selected biological parameters such as age, growth, length-weight relationships, and size-sex-age composition of the groundfish stocks, (4) compare the fishing power of the Lets Go with that of the Ginryu Maru No. 5, (5) measure the effective width and height of the research trawls while fishing, (6) conduct tagging experiments with Pacific cod and Atka mackerel, and (8) obtain information on feeding habits for selected groundfish species.

All sampling by the Lets Go was conducted with the Noreastern trawl with roller gear which had an effective horizontal opening of 16.5 m (54.0 ft) (Figure 1). This trawl has a headrope length of 27.4 m (90 ft), a footrope length of 32.0 m (105 ft), and is constructed of 12.7 cm (5 in) stretched nylon webbing in the wings and body and 8.9 cm (3.50 in) stretched mesh in the intermediate and codend sections. The Noreastern trawl was fished with 1.8 x 2.7 m (6 x 8.5 ft) otter boards weighing 818 kg (1,800 lbs), with triple 54.9 m (180 ft) dandylines and had a 3.8 cm (1.5 in) stretch nylon liner in the codend.

The Ginryu Maru No. 5 used a commercial bottomfish trawl with roller gear. Headrope and footrope lengths were 38.4 m (112.8 ft) and 54 m (177.1 ft) respectively, and the average horizontal path width measured 23.1 m (75.9 ft). The trawl was constructed of polyethylene webbing that decreased in size from 180-135 mm (7.0-5.3 in) in the wings and body to 120 mm-90 mm (4.7-3.5 in) in the intermediate and a 120 mm (4.7 in) codend and was equipped with roller gear constructed of 30 cm (11.8 in) and 41 cm (16.1 in) gum discs and used tires (Figure 2 and 3). Otter boards 2.25 x 3.50 m (7.3 x 11.4 ft) and weighing 2.9 tons in water and 50 m dandylines were fished with this trawl.

During the survey 499 stations were attempted of which 118 and 211 were successfully completed by the Lets Go and Ginryu Maru No. 5 respectively. (Table 1). Vertical temperature profiles were taken at the end of selected trawls by expendable bathythermograpth (XBT).

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 reguarding this survey should be directed to:

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

Table 1.--Number of successful trawl sampling stations by subareas and depth interval during the 1986 cooperative U.S.-Japan Aleutian Islands groundfish resource assessment survey.

Depth (m)	Interval (fm)	Subarea*						
		SW	SE	NW	NE	Bowers	SBS	Total
1-100	1-55	13	8	11	9	-	36	77
101-200	56-109	69	35	12	70	1	22	209
201-300	110-164	19	19	9	31	3	10	91
301-500	165-274	17	15	3	23	4	6	68
501-900	275-493	7	8	5	20	9	5	54
	Total	125	85	40	153	17	79	499

*Subarea designations refer to:
(unless otherwise stated, the demarcation line for north and south is the Aleutian Islands chain)
SW - Southwestern Area (170°E to 180°)
SE - Southeastern Area (180° to 170°W)
NW - Northwestern Area (170°E to 180°)
NE - Northeastern Area (180° to 170°W)
Bowers - Bowers Ridge Area
(approximately 176°E to 179°W and 53°N to 55°N)
SBS - Southern Bering Sea Area
(north of the Aleutian Islands between 170°W and 165°W)

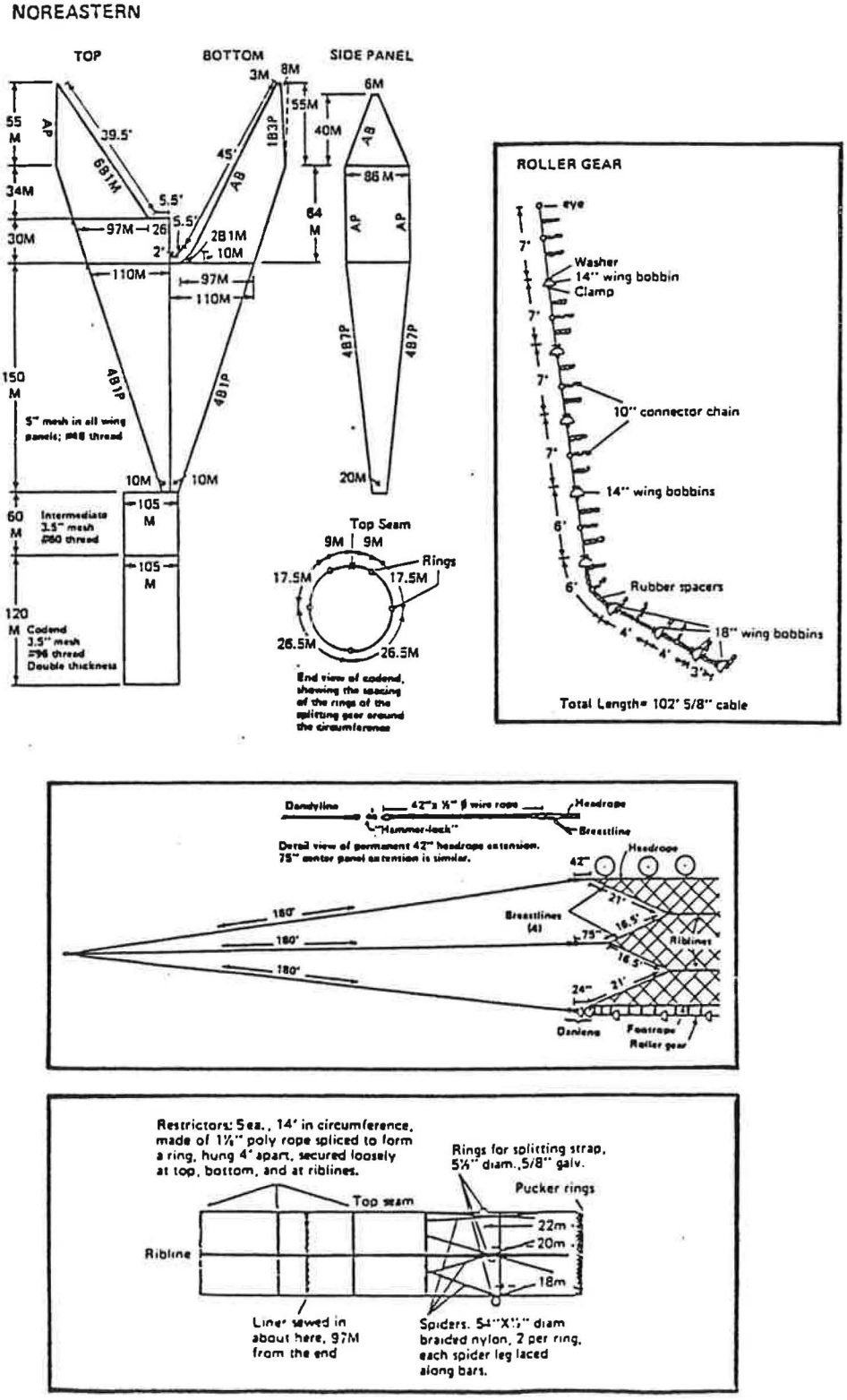


Figure 1.--Schematic diagram of the Noreastern trawl and roller gear used by the R/V Lets Go.

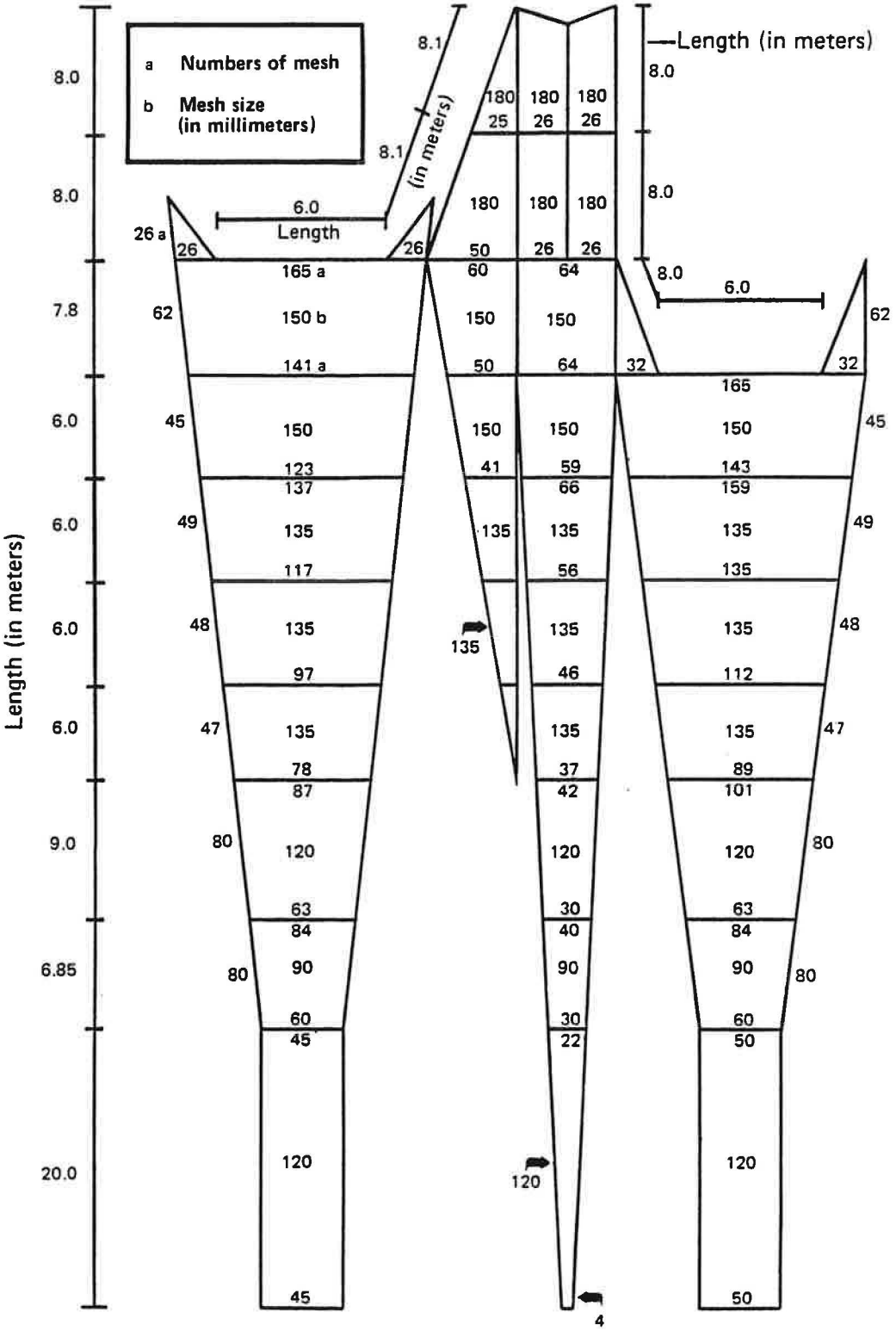
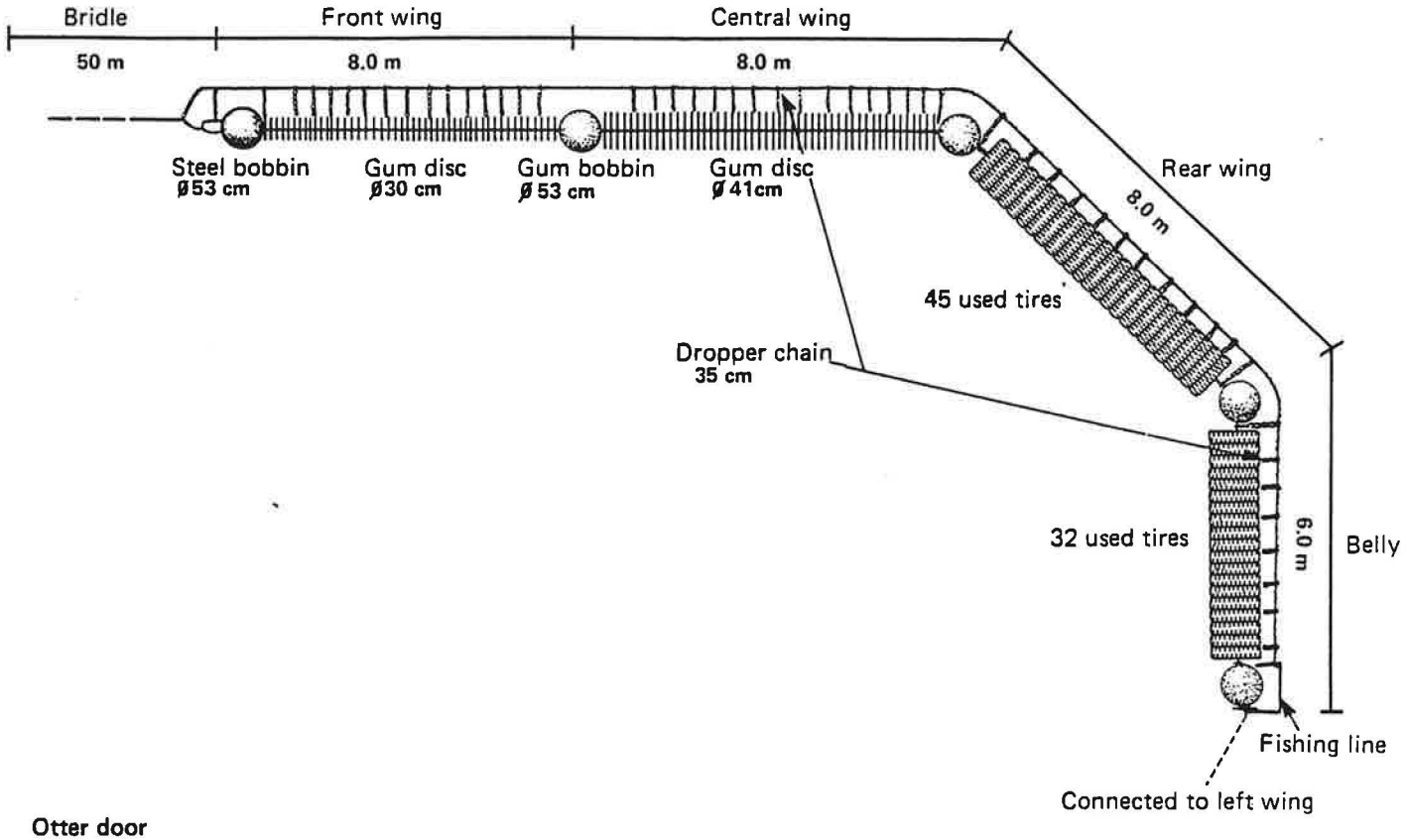


Figure 2.--Schematic diagram of the commercial bottomfish trawl used by the Ginryu Maru No. 5.



Otter door

Width: 2.25 m
Height: 3.50 m
Weight in water: 2.9 t

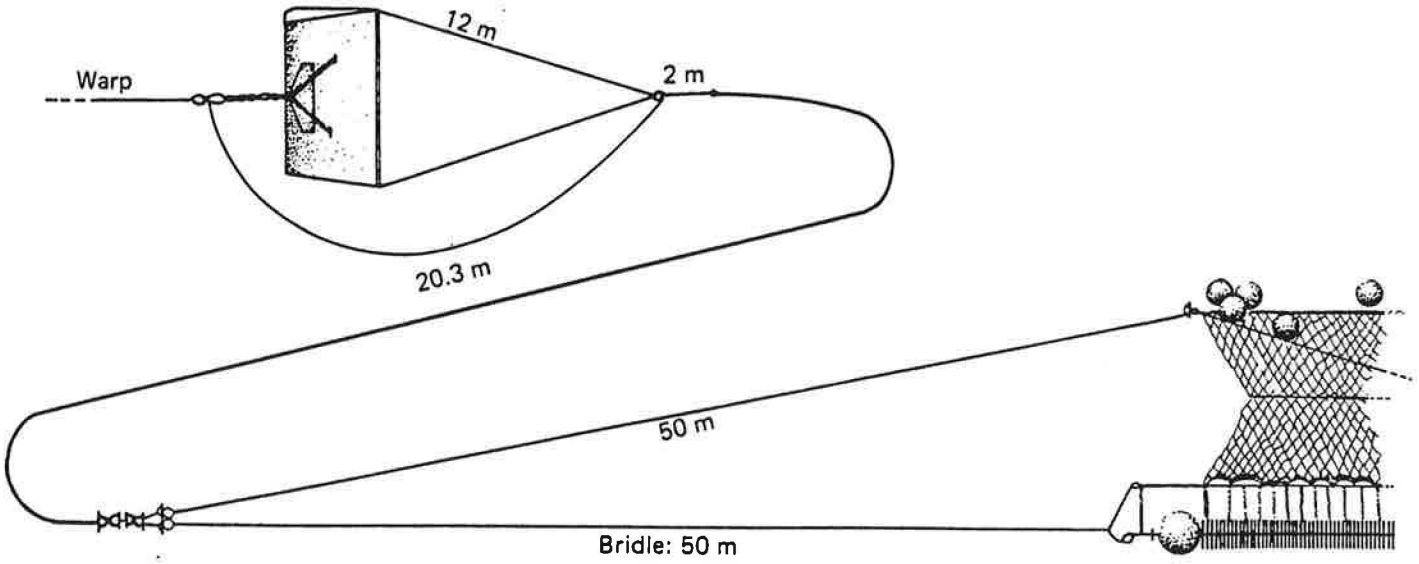


Figure 3.--Schematic diagram of the roller gear used by the Ginryu Maru No. 5.

SECTION A

Geographical location to trawl stations sampled

by the R/V's Lets Go and Ginryu Maru No. 5

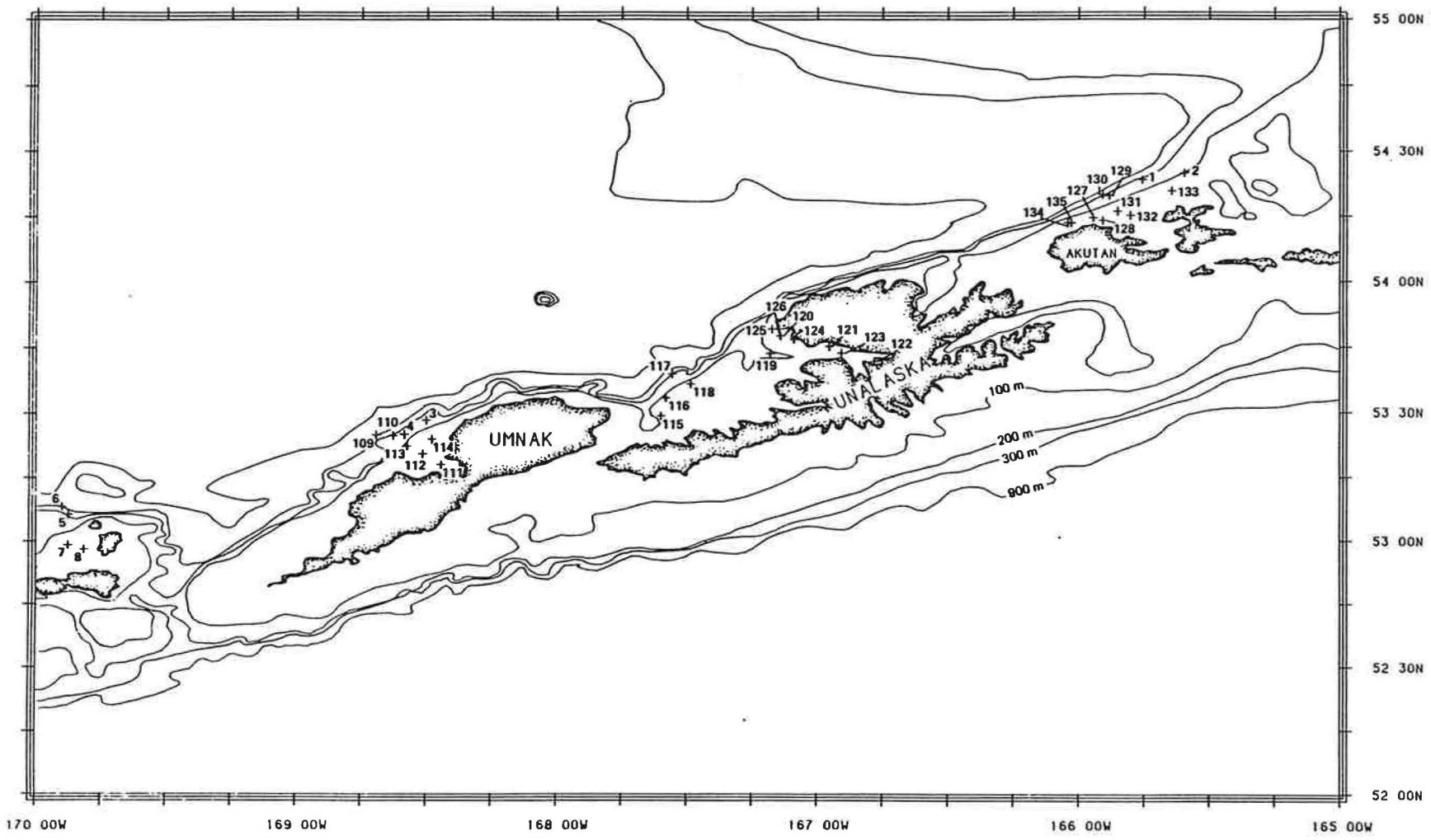


Figure 4.--Trawl stations completed by the R/V Lets Go from Akutan I to Chuginadak I.

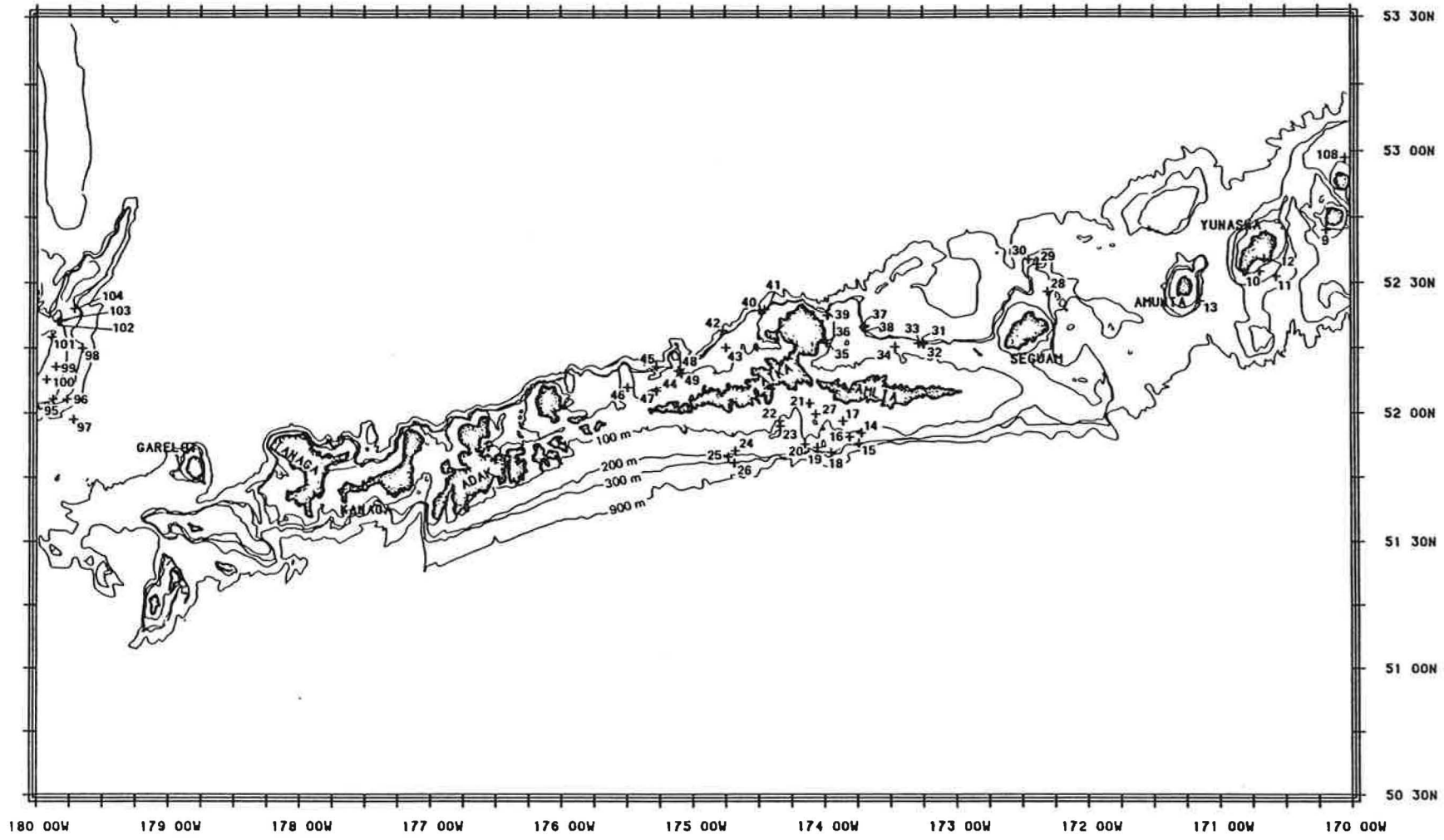


Figure 5.--Trawl stations completed by the R/V Lets Go from Yunaska I to Gareloi I.

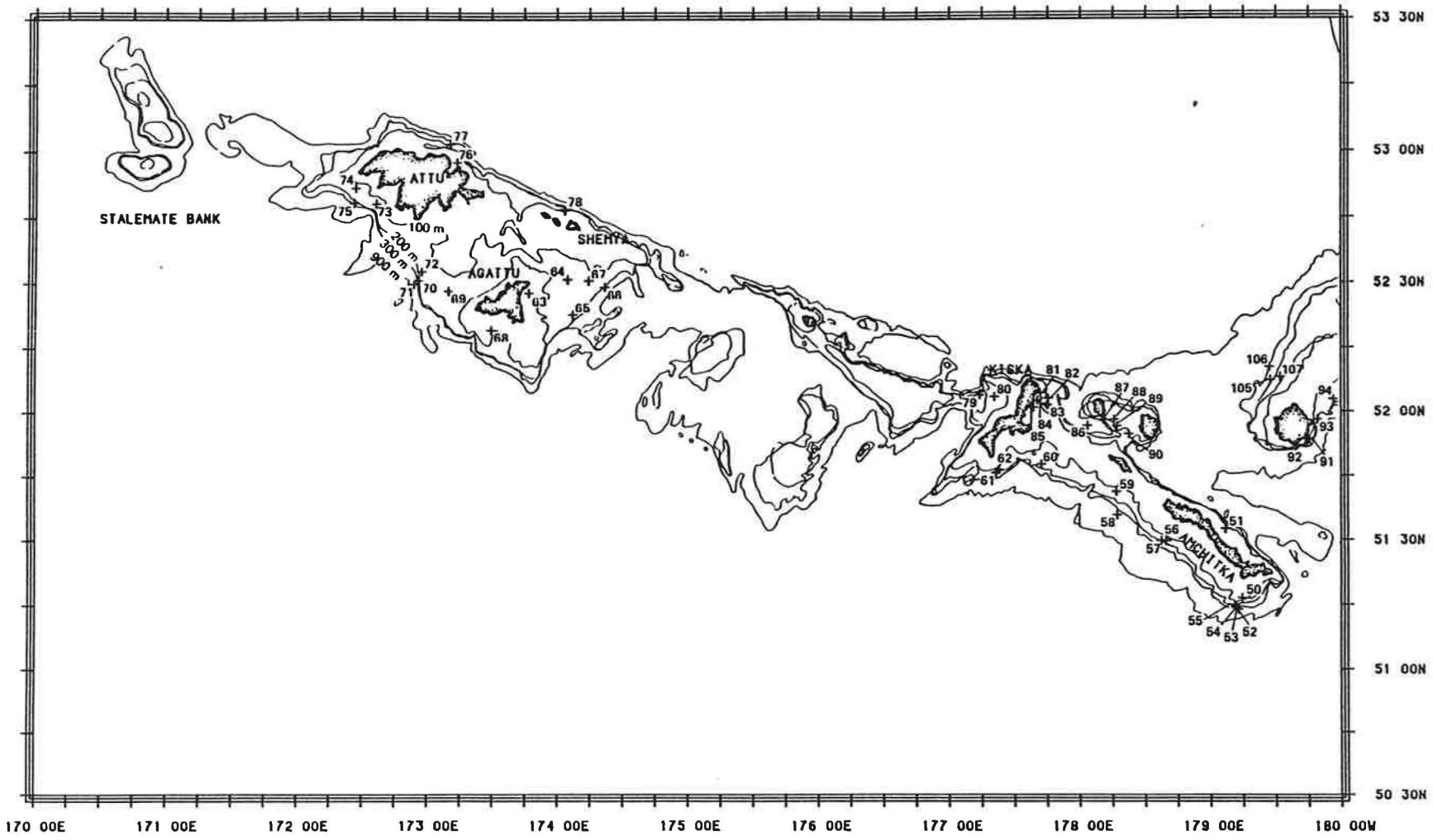


Figure 6.--Trawl stations completed by the R/V Lets Go from Amchitka I to Attu I and eastern Petral Bank.

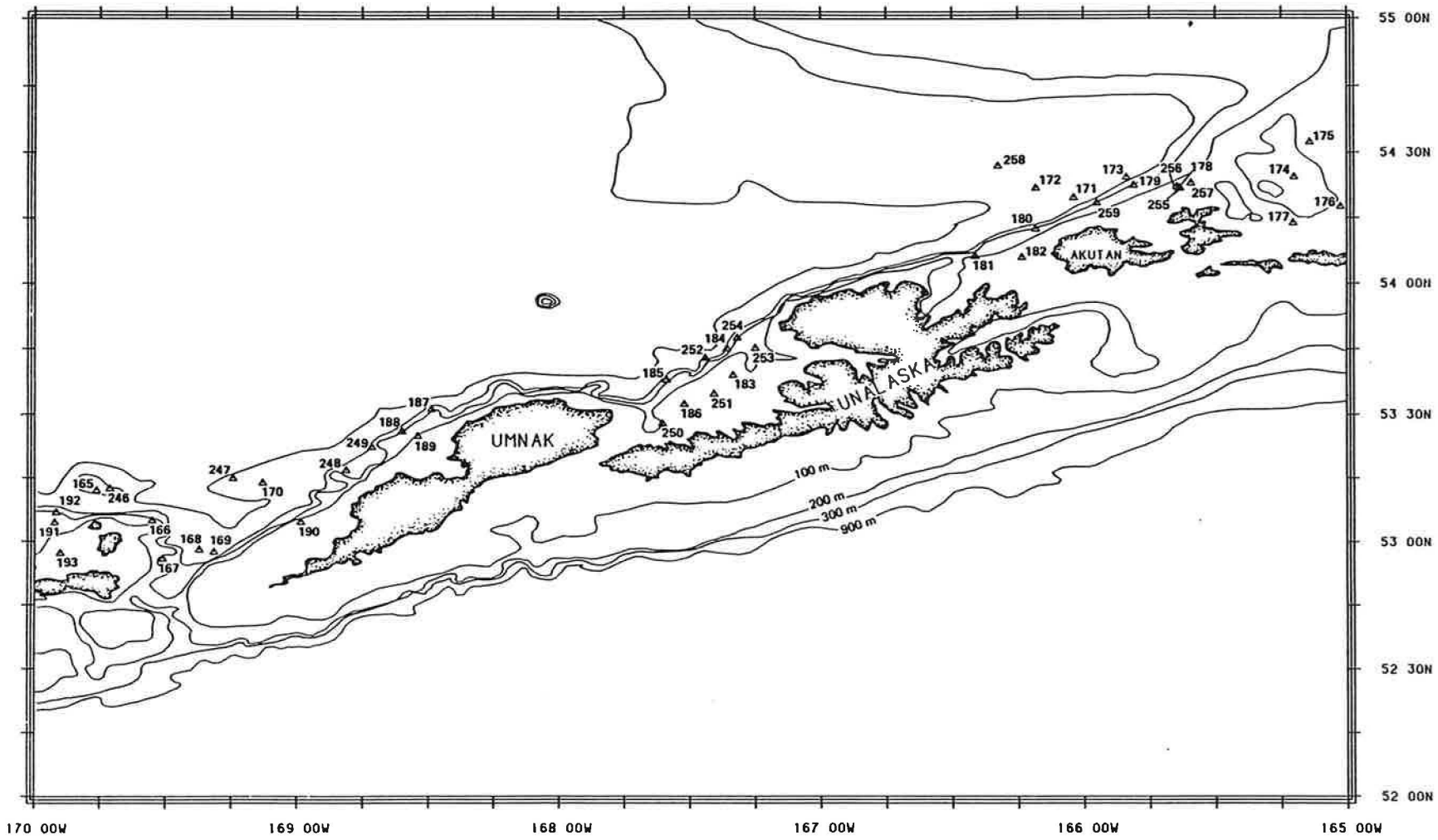


Figure 7.--Trawl stations completed by the R/V Ginryu Maru No. 5 from Akutan I to Chuginadak I.

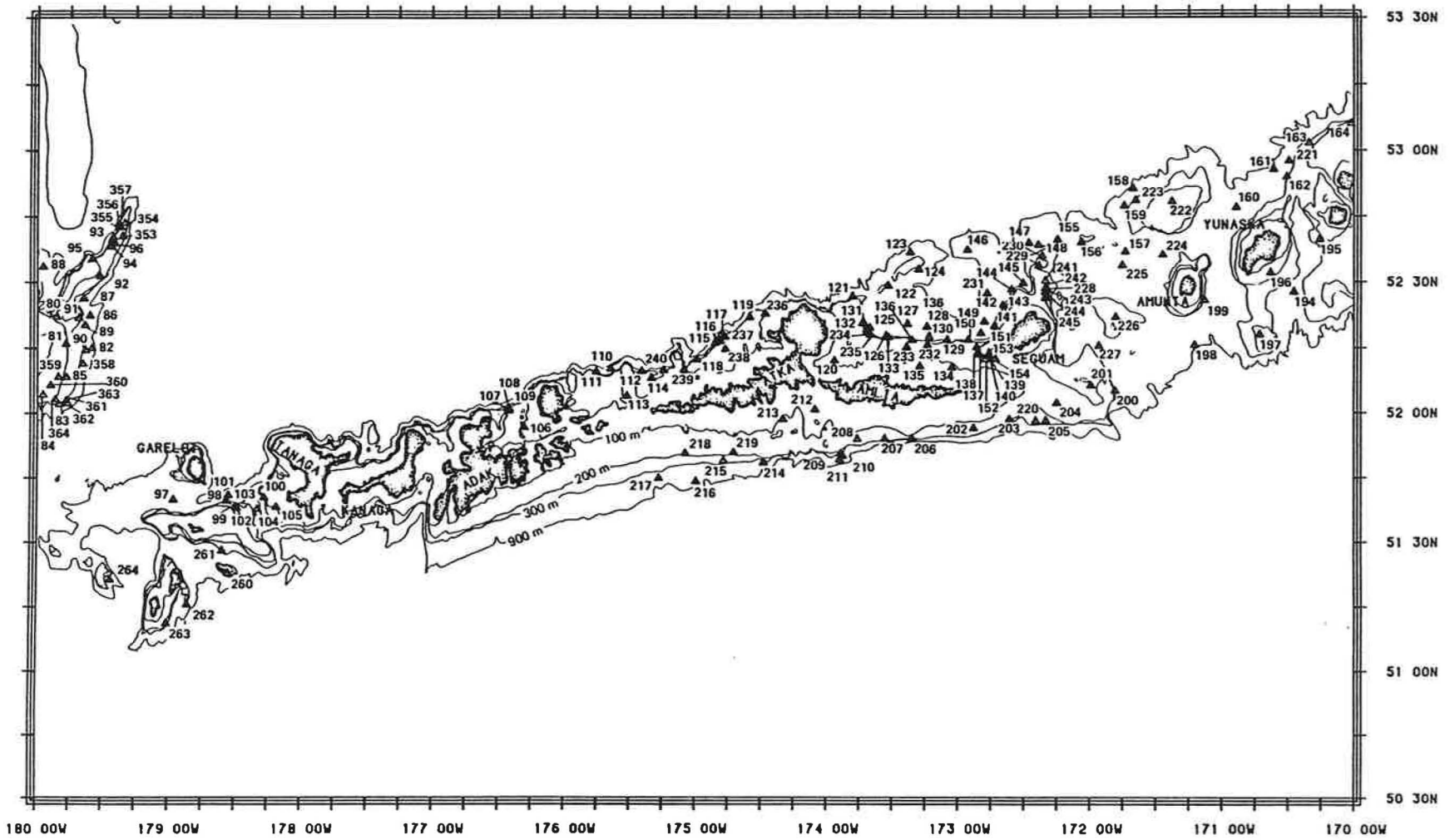


Figure 8.--Trawl stations completed by the R/V Ginryu Maru No. 5 from Yunaska I to Gareloi I including eastern Petral Bank.

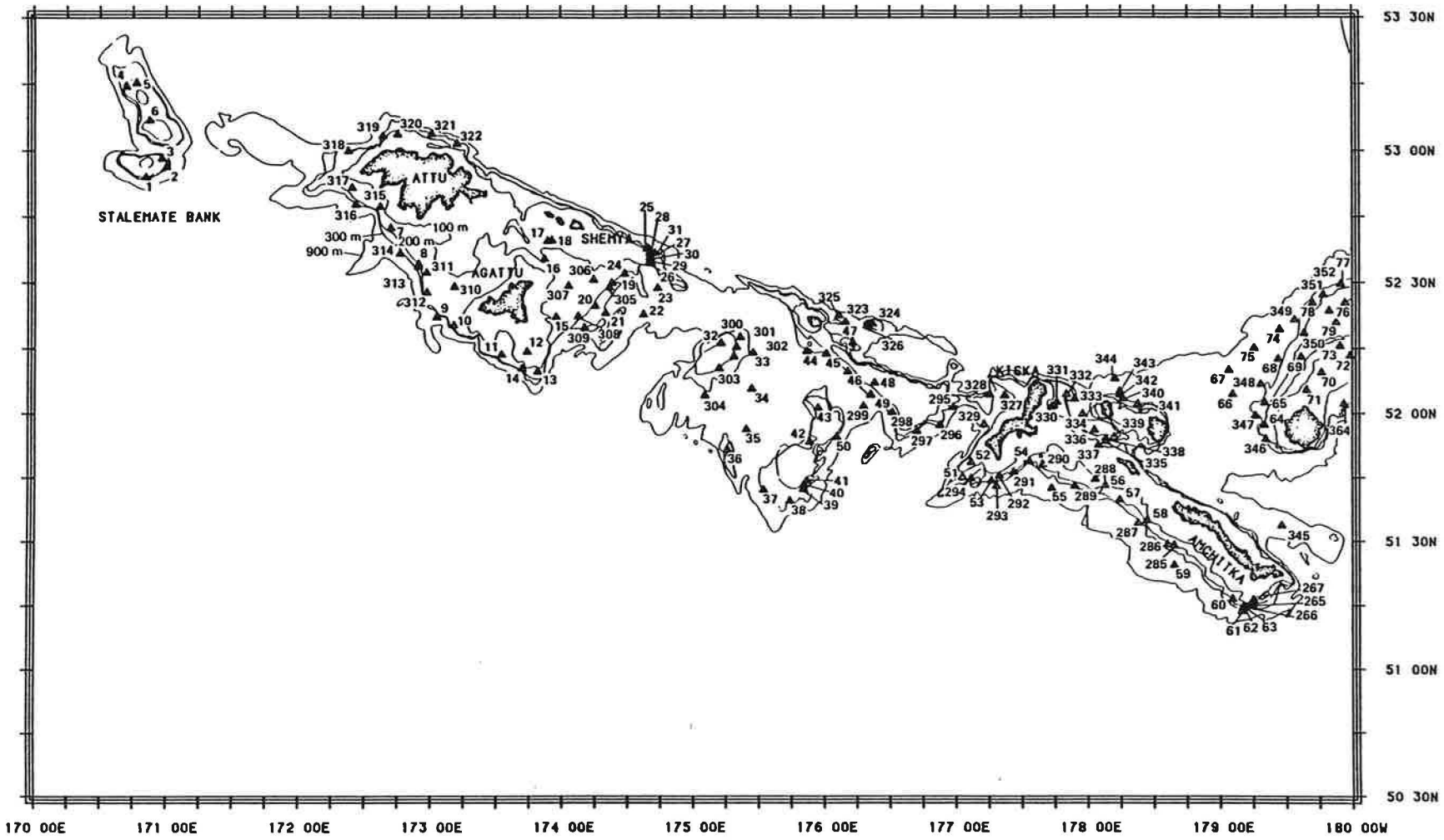


Figure 9.--Trawl Stations completed by the R/V Ginryu Maru No. 5 from Amchitka I to Attu I including western Petral Bank.

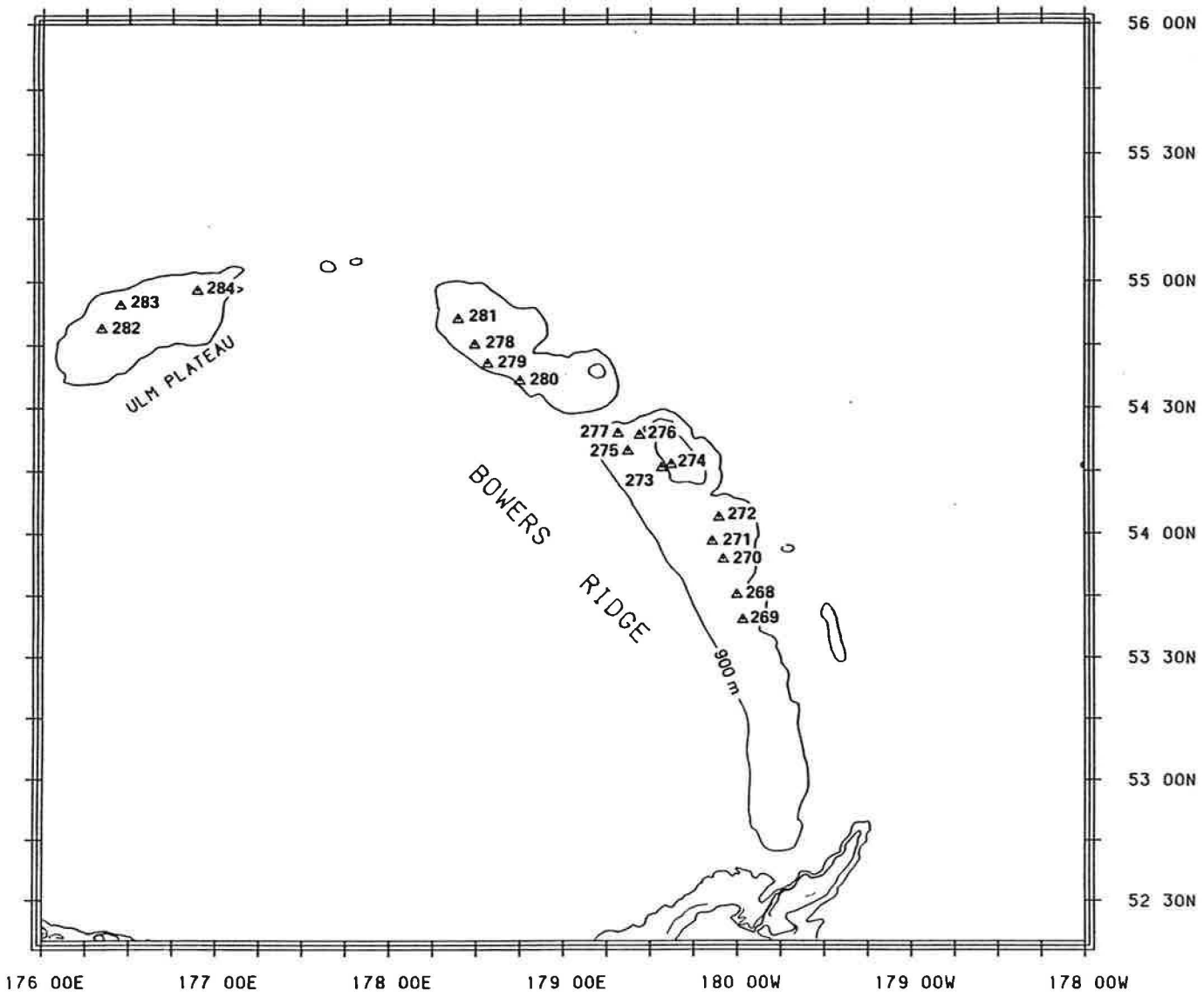


Figure 10.--Trawl stations completed by the R/V Ginryu Maru No. 5 on Bowers Ridge.

SECTION B

Pertinent Position and Catch Data

for R/V's Lets Go and Ginryu Maru No. 5.

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
	712	113/177' standard Japanese bottom trawl
Catch		pounds/hour

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/24/86	7/24/86	7/25/86	7/25/86	7/26/86	7/26/86	7/26/86	7/26/86	7/27/86	7/27/86	7/27/86
LATITUDE START	54 23.5	54 25.1	53 28.2	53 25.0	53 6.2	53 8.2	52 59.1	52 58.1	52 42.0	52 32.5	52 31.4
LONGITUDE START	165 45.4	165 35.7	168 29.9	168 35.7	169 52.4	169 53.8	169 52.5	169 48.8	170 11.1	170 41.5	170 34.0
LATITUDE END	54 24.4	54 25.8	53 27.3	53 23.5	53 5.1	53 8.4	53 0.5	52 57.8	52 40.8	52 32.6	52 30.7
LONGITUDE END	165 42.9	165 33.8	168 30.9	168 36.6	169 49.9	169 55.2	169 52.5	169 49.6	170 9.2	170 39.0	170 35.0
LORAN START	48207.00	48156.70	48873.30	48887.70	49117.60	49128.30	49096.30	49080.60	49108.20	49174.20	49148.40
LORAN START	34718.40	34695.00	35040.10	35047.70	35111.70	35112.60	35111.60	35109.40	35120.50	16794.00	16817.00
LORAN END	48195.20	48147.10	48874.60	48887.00	49105.40	49133.50	49100.60	49082.70	49116.50	49166.80	49149.40
LORAN END	34711.90	34689.70	35041.30	35048.40	35110.20	35113.40	35111.70	35109.90	16942.20	16804.00	16809.70
GEAR DEPTH	84	48	55	57	88	128	71	53	90	67	138
DURATION IN HOURS	0.50	0.50	0.50	0.48	0.50	0.50	0.50	0.13	0.34	0.50	0.34
DISTANCE FISHED	1.50	1.40	1.00	1.10	2.00	0.90	1.47	0.25	1.00	1.50	0.95
PERFORMANCE / GEAR	0 /161	1 /161	0 /161	0 /161	0 /161	1 /161	0 /161	5 /161	1 /161	0 /161	0 /161
POLLOCK	8210.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1263.2
PACIFIC COD	1625.2	1022.0	4053.0	576.0	1016.0	0.0	0.0	0.0	25.0	0.0	26.5
PAC OCEAN PERCH	0.0	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
NORTHERN RKFH	0.0	116.0	0.0	2.5	0.0	0.0	0.0	0.0	2.9	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	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	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	792.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	28.0	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	0.0	18.0	0.0	0.0	8.0	0.0	0.0	0.0	2.4	3.0	0.9
OTHER ROUNDFISH	26891.2	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
TOTAL ROUNDFISH	37519.4	1276.0	4053.0	578.5	1024.0	0.0	0.0	0.0	31.5	3.0	1305.3
ARROWTOOTH FL	27.4	0.0	0.0	0.0	1.0	0.0	1.0	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	191.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	2.0	116.0	40.6	23.0	0.0	10.0	0.0	0.0	0.0	5.9
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	262.2	223.4	56.2	21.5	17.4	0.0	1349.0	0.0	88.2	152.2	29.7
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	480.8	225.4	172.2	62.1	41.4	0.0	1360.0	0.0	88.2	152.2	35.6
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	0.0	30.0	85.3
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	0.0	0.0	0.0	0.0	43.0	0.0	0.0	30.0	85.3
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	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	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	858.6	0.0	77.3	51.8	6.0	651.0	0.0	3082.6	28.4	0.0
TOTAL INVERTS	0.0	858.6	0.0	77.3	51.8	6.0	651.0	0.0	3082.6	28.4	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	38000.2	2360.0	4225.2	717.9	1117.2	6.0	2054.0	0.0	3202.4	213.6	1426.2

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/27/86	7/28/86	7/29/86	7/29/86	7/29/86	7/30/86	7/30/86	7/30/86	7/30/86	7/31/86	7/31/86
LATITUDE START	52 35.5	52 25.8	51 55.4	51 53.0	51 54.4	51 58.2	51 50.9	51 52.0	51 52.7	52 2.3	51 58.2
LONGITUDE START	170 39.3	171 8.9	173 43.1	173 44.3	173 48.5	173 51.5	173 56.9	174 3.2	174 8.8	174 6.7	174 20.4
LATITUDE END	52 36.1	52 24.5	51 55.3	51 53.9	51 54.4	51 58.1	51 50.7	51 52.0	51 52.5	52 1.1	51 59.8
LONGITUDE END	170 36.5	171 10.1	173 41.6	173 44.3	173 50.6	173 52.2	173 58.2	174 5.1	174 7.5	174 5.5	174 19.2
LORAN START	49176.30	49234.30	49504.00	35107.60	35105.60	35103.10	35102.10	35098.40	35095.10	35093.50	35086.60
LORAN START	16818.50	16647.90	15788.20	15771.10	15758.70	15756.50	15695.80	15668.20	15643.30	15697.40	15607.30
LORAN END	49169.50	49234.00		35107.40	35104.40	35102.70	35101.40	35097.30	35095.90	35094.60	35086.70
LORAN END	16832.60	16636.00		15777.80	15743.50	15752.50	15688.10	15658.50	15648.60	15698.00	15620.50
GEAR DEPTH	46	204	64	72	68	47	132	86	86	47	56
DURATION IN HOURS	0.50	0.50	0.31	0.42	0.35	0.19	0.25	0.32	0.34	0.50	0.50
DISTANCE FISHED	1.75	1.52	1.00	1.30	1.32	0.52	0.87	1.20	0.80	1.50	1.70
PERFORMANCE / GEAR	1 /161	1 /161	0 /161	0 /161	1 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	0.0	283.0	0.0	0.0	0.0	0.0	2836.0	20.3	902.9	2.0	0.0
PACIFIC COD	715.0	27.0	925.8	1248.8	1025.7	147.4	286.0	637.5	175.0	83.0	143.0
PAC OCEAN PERCH	1.6	64.0	0.6	1.9	4.3	0.0	2204.0	264.1	632.4	0.0	0.0
NORTHERN RKFH	0.0	2.0	8.1	3.6	5.7	0.0	4.0	0.0	8.8	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	44.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	6.0	0.0	0.0	0.0	0.0	20.0	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	5.7	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	1.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.9	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	2.4	1.6	49.4	26.9	3.7	10.5	160.0	32.8	25.0	11.0	41.2
OTHER ROUNDFISH	0.2	0.4	0.0	0.5	0.3	0.0	0.0	0.3	0.3	0.4	0.0
TOTAL ROUNDFISH	720.2	445.0	983.9	1281.7	1045.4	158.9	5554.0	955.0	1745.3	96.4	184.2
ARROWTOOTH FL	0.0	108.0	0.6	0.0	0.0	1.6	2.0	56.3	82.4	10.0	10.0
GREENLAND TURBOT	0.0	23.0	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	5.9	0.0	0.0
ROCK SOLE	12.0	0.0	124.2	69.0	17.1	18.4	0.8	46.9	26.5	95.0	82.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	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	137.4	197.8	151.0	24.0	112.6	0.0	0.0	263.4	0.0	26.8	433.6
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	149.4	328.8	275.8	93.1	129.7	20.0	2.8	366.6	132.4	131.8	525.6
SKATES	0.0	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
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	135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
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	6.0	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	2986.4	1256.0	1275.5	2518.6	1503.1	5534.2	0.0	509.7	65.0	290.2	262.0
TOTAL INVERTS	2986.4	1262.0	1275.5	2518.6	1503.1	5534.2	0.0	509.7	65.0	290.2	262.0
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	3856.0	2170.8	2535.2	3893.3	2678.3	5713.2	5556.8	1831.3	1942.6	518.4	977.8

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	8/ 1/86	8/ 1/86	8/ 1/86	8/ 1/86	8/ 1/86	8/ 4/86	8/ 4/86	8/ 4/86	8/ 5/86	8/ 5/86	8/ 5/86
LATITUDE START	51 57.0	51 51.2	51 49.8	51 48.4	51 59.8	52 28.0	52 34.3	52 35.4	52 16.4	52 16.0	52 16.1
LONGITUDE START	174 20.1	174 40.5	174 43.7	174 41.0	174 3.9	172 18.3	172 22.9	172 26.8	173 15.3	173 14.7	173 17.0
LATITUDE END	51 57.2	51 51.1	51 49.9	51 48.4	51 59.6	52 26.6	52 34.2	52 35.3	52 16.3	52 15.9	52 15.7
LONGITUDE END	174 17.0	174 37.9	174 41.5	174 39.1	174 6.1	172 18.9	172 24.1	172 27.4	173 14.4	173 13.7	173 15.0
LORAN START	35087.20	35076.00	35074.40	35076.80	35095.90	49419.80	49448.00	49460.30	49513.00	49510.70	49515.50
LORAN START	15603.40	15470.40	15447.30	15455.50	15699.00	16355.50	16366.50	16353.80	16024.00	16025.40	16014.60
LORAN END	35088.90	35077.80	35075.80	35077.90	35094.70	49417.20	49450.50	49461.10	49511.00	49508.50	49510.70
LORAN END	15620.30	15483.90	15459.30	15465.00	15687.90	16346.00	16360.80	16350.90	16028.40	16029.70	16022.80
GEAR DEPTH	58	97	129	183	51	105	115	139	72	64	62
DURATION IN HOURS	0.50	0.50	0.50	0.43	0.50	0.50	0.25	0.17	0.16	0.20	0.42
DISTANCE FISHED	1.88	1.50	1.50	1.30	1.60	1.45	0.75	0.34	0.50	0.50	1.35
PERFORMANCE / GEAR	0 /161	0 /161	0 /161	0 /161	0 /161	1 /161	1 /161	1 /161	0 /161	0 /161	0 /161
POLLOCK	0.0	760.0	1573.0	34.9	0.0	0.0	8.0	47.1	803.1	385.0	1111.9
PACIFIC COD	104.0	233.0	108.0	19.8	42.0	904.0	204.0	211.8	412.5	445.0	338.1
PAC OCEAN PERCH	0.0	1.0	1023.0	488.4	0.0	57.0	426.0	0.0	1.3	7.5	0.5
NORTHERN RKFH	0.0	1.0	15.0	0.0	0.6	8.0	0.0	0.0	1.9	2.5	2.4
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	19.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	9.3	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	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	13.6	29.0	4.8	4.7	23.4	4.0	0.8	115.9	1.3	22.0	10.5
OTHER ROUNDFISH	4.0	30.4	0.0	0.0	0.0	0.0	0.0	1.2	96.3	35.0	28.6
TOTAL ROUNDFISH	121.6	1054.4	2723.8	576.7	66.0	973.0	639.6	375.9	1316.3	897.0	1491.9
ARROWTOOTH FL	15.0	142.0	18.0	32.6	0.4	0.0	8.0	1.8	0.0	37.5	45.2
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	3.1	0.0	0.0
ROCK SOLE	148.0	116.0	53.0	0.7	38.0	7.0	16.0	38.2	21.9	30.0	21.4
REX SOLE	0.0	6.0	1.0	31.4	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	196.4	75.6	0.0	0.0	63.6	23.8	0.0	0.0	74.4	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.9	75.0	22.6
TOTAL FLATFISH	359.4	339.6	72.0	64.7	102.0	30.8	24.0	40.0	146.3	142.5	89.3
SKATES	0.0	12.0	2.0	0.0	2.0	0.0	0.0	158.8	190.6	0.5	41.7
OTHER ELASMOBRH	0.0	0.0	0.0	283.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	12.0	2.0	283.7	2.0	0.0	0.0	158.8	190.6	0.5	41.7
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	0.0	0.0	0.0
SQUID	0.0	0.0	6.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	698.8	142.0	0.0	0.5	682.0	622.0	322.0	129.4	1681.3	1512.5	1002.9
TOTAL INVERTS	698.8	142.0	6.0	5.1	682.0	622.0	322.0	152.9	1681.3	1512.5	1002.9
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	1179.8	1548.0	2803.8	930.2	852.0	1625.8	985.6	727.6	3334.4	2552.5	2625.7

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	8/ 5/86	8/ 6/86	8/ 6/86	8/ 6/86	8/ 6/86	8/ 6/86	8/ 7/86	8/ 7/86	8/ 7/86	8/ 7/86	8/ 8/86
LATITUDE START	52 15.3	52 16.2	52 16.8	52 20.2	52 19.8	52 22.6	52 23.8	52 23.9	52 19.1	52 15.1	52 9.8
LONGITUDE START	173 27.7	173 58.8	173 59.4	173 41.4	173 42.1	173 58.6	174 29.4	174 27.1	174 46.1	174 44.7	175 6.5
LATITUDE END	52 14.4	52 15.4	52 15.6	52 19.7	52 19.1	52 21.0	52 23.9	52 23.3	52 18.1	52 15.4	52 10.4
LONGITUDE END	173 27.0	173 59.2	173 59.3	173 39.8	173 39.9	173 57.6	174 28.9	174 29.4	174 47.6	174 47.5	175 5.0
LORAN START	49534.90	49595.90	49598.50	49574.10	49574.50	49611.70	49667.50	49664.20	49683.00	49671.50	49692.80
LORAN START	15957.20	15802.30	15802.60	15911.50	15906.20	15834.40	15676.80	15689.80	15564.30	15553.40	15411.60
LORAN END	49531.30	49593.80	49595.40	49569.80	49568.60	49606.10	49667.20	49666.50	49683.10	49676.30	49691.70
LORAN END	15956.30	15795.40	15797.40	15917.50	15914.10	15831.70	15680.30	15675.00	15551.90	15539.90	15421.20
GEAR DEPTH	58	50	46	228	159	44	80	66	119	63	75
DURATION IN HOURS	0.34	0.50	0.41	0.35	0.50	0.50	0.11	0.50	0.50	0.50	0.27
DISTANCE FISHED	1.00	1.10	1.35	1.00	1.60	1.60	0.33	1.50	1.40	1.72	0.85
PERFORMANCE / GEAR	0 /161	0 /151	0 /161	0 /161	7 /161	0 /161	7 /161	0 /161	0 /161	1 /161	0 /161
POLLOCK	2.9	4929.6	0.0	17.1	0.0	1.0	0.0	18.0	442.0	0.0	2748.1
PACIFIC COD	161.8	91.4	270.7	0.0	0.0	122.0	0.0	672.0	926.0	148.0	525.9
PAC OCEAN PERCH	29.4	0.4	0.0	5.7	0.0	0.0	0.0	1.0	898.0	7.0	0.0
NORTHERN RKFH	8.8	0.0	0.0	0.0	0.0	0.0	0.0	6.0	8.0	15.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	38.6	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	55.7	0.0	0.0	0.0	0.0	4.0	0.0	0.0
ATKA MACKEREL	0.6	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	4.4	21.4	53.7	2.9	0.0	176.2	0.0	93.2	0.2	1.4	23.7
OTHER ROUNDFISH	0.0	3.8	0.0	32.6	0.0	0.2	0.0	3.0	4.8	2.2	0.0
TOTAL ROUNDFISH	207.9	5046.6	324.4	215.4	0.0	299.4	0.0	793.2	2283.0	173.6	3297.8
ARROWTOOTH FL	1.5	38.8	151.2	28.6	0.0	68.0	0.0	3.0	26.0	20.0	44.4
GREENLAND TURBOT	0.0	0.0	0.0	430.0	0.0	0.0	0.0	0.0	154.0	0.0	0.0
FLATHEAD SOLE	1.5	194.4	261.0	0.0	0.0	3.0	0.0	0.0	6.0	38.0	0.0
ROCK SOLE	107.4	157.4	400.0	0.0	0.0	78.0	0.0	60.0	22.0	186.0	340.7
REX SOLE	0.0	11.6	1.2	51.4	0.0	0.0	0.0	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	25.9	247.8	74.6	0.0	0.0	159.8	0.0	113.6	20.0	290.0	45.2
OTHER FLATFISH	2.9	21.4	24.4	18.6	0.0	22.0	0.0	36.0	12.0	10.0	48.1
TOTAL FLATFISH	139.1	671.4	912.4	528.6	0.0	330.8	0.0	212.6	240.0	544.0	479.3
SKATES	0.0	0.0	0.0	1.4	0.0	0.0	0.0	46.0	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	1.4	0.0	0.0	0.0	46.0	0.0	0.0	0.0
TANNER CRAB	0.0	11.6	2.4	5.7	0.0	10.0	0.0	0.0	3.0	1.0	0.4
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	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.2	24.0	0.0	0.0
OTHER INVERTS	754.4	10.2	115.1	166.0	0.0	613.0	0.0	1034.0	30.0	358.0	82.2
TOTAL INVERTS	754.4	21.8	117.6	234.6	0.0	623.0	0.0	1034.2	57.0	359.0	82.6
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	1101.5	5739.8	1354.4	980.0	0.0	1253.2	0.0	2086.0	2580.0	1076.6	3859.6

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	8/ 8/86	8/ 8/86	8/ 9/86	8/ 9/86	8/ 9/86	8/14/86	8/16/86	8/17/86	8/17/86	8/17/86	8/17/86
LATITUDE START	52 10.8	52 6.0	52 5.2	52 10.0	52 9.3	51 16.6	51 32.6	51 14.5	51 13.9	51 14.9	51 29.9
LONGITUDE START	175 16.4	175 29.6	175 16.4	175 6.3	175 5.1	179 14.6E	179 6.9E	179 11.8E	179 12.9E	179 11.0E	178 39.5E
LATITUDE END	52 10.9	52 4.9	52 4.8	52 9.9	52 9.2	51 15.0	51 32.8	51 14.4	51 14.6	51 15.3	51 30.5
LONGITUDE END	175 14.0	175 29.6	175 18.9	175 7.0	175 6.3	179 16.8E	179 6.6E	179 9.2E	179 10.5E	179 8.4E	178 37.1E
LORAN START	49709.50	49717.60	49696.80	49692.60	49689.30		34716.60	34744.00	34746.20	34742.80	34687.40
LORAN START	15360.40	15266.30	15335.90	15412.90	15416.20		13207.10	13200.30	13206.20	13196.30	13030.40
LORAN END	49706.40	49715.50	49699.70	49693.60	49690.80		34716.20	34741.20	34743.00	34739.30	34683.80
LORAN END	15374.00	15261.10	15320.30	15408.90	15409.00		13206.50	13184.50	13192.20	13181.40	13016.60
GEAR DEPTH	127	41	51	76	55	53	44	132	190	85	86
DURATION IN HOURS	0.50	0.38	0.50	0.17	0.25	0.17	0.06	0.43	0.35	0.45	0.38
DISTANCE FISHED	1.40	1.07	1.60	0.43	0.68	0.50	0.19	1.56	1.50	1.70	1.60
PERFORMANCE / GEAR	0 /161	0 /161	0 /161	0 /161	0 /161	1 /161	0 /161	0 /161	5 /161	1 /161	7 /161
POLLOCK	90.0	0.0	0.2	0.0	0.0	5.9	0.0	286.0	0.0	1242.2	0.0
PACIFIC COD	90.0	160.5	212.0	0.0	0.0	411.8	0.0	239.5	0.0	47.8	0.0
PAC OCEAN PERCH	164.0	0.0	0.0	0.0	0.0	0.0	0.0	382.6	0.0	31.8	0.0
NORTHERN RKFH	1.0	0.0	0.0	0.0	0.0	1217.6	0.0	17.4	0.0	13.3	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	11.1	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	7.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	4679.4	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	54.4	7.9	42.4	0.0	0.0	0.0	0.0	54.7	0.0	27.8	0.0
OTHER ROUNDFISH	1.0	0.0	0.2	0.0	0.0	8.8	0.0	3.5	0.0	0.0	0.0
TOTAL ROUNDFISH	400.4	168.4	254.8	0.0	0.0	6323.5	0.0	993.0	0.0	1374.0	0.0
ARROWTOOTH FL	52.0	0.0	44.0	0.0	0.0	0.0	0.0	14.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	124.0	69.7	118.0	0.0	0.0	0.0	0.0	55.8	0.0	1.1	0.0
REX SOLE	124.0	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	80.4	3.9	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	2.0	0.0	0.4	0.0	0.0	0.0	0.0	53.5	0.0	0.0	0.0
TOTAL FLATFISH	362.4	73.7	379.4	0.0	0.0	0.0	0.0	123.3	0.0	1.1	0.0
SKATES	6.0	0.0	0.0	0.0	0.0	0.0	0.0	290.7	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	6.0	0.0	0.0	0.0	0.0	0.0	0.0	290.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0
OTHER INVERTS	206.0	86.8	67.4	0.0	0.0	1234.7	0.0	111.6	0.0	44.4	0.0
TOTAL INVERTS	206.0	86.8	67.4	0.0	0.0	1234.7	0.0	118.6	0.0	44.4	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	994.8	328.9	701.6	0.0	0.0	7558.2	0.0	1525.6	0.0	1419.6	0.0

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	8/18/86	8/18/86	8/18/86	8/20/86	8/20/86	8/20/86	8/20/86	8/23/86	8/23/86	8/23/86	8/23/86
LATITUDE START	51 29.8	51 29.9	51 35.9	51 41.3	51 47.8	51 45.8	51 46.5	52 27.7	52 30.8	52 22.7	52 29.1
LONGITUDE START	178 37.4E	178 39.5E	178 17.0E	178 16.6E	177 42.0E	177 21.3E	177 22.6E	173 47.1E	174 4.9E	174 7.2E	174 21.9E
LATITUDE END	51 29.6	51 30.3	51 35.0	51 41.7	51 47.5	51 45.0	51 45.7	52 26.9	52 31.2	52 23.4	52 28.2
LONGITUDE END	178 38.8E	178 37.7E	178 19.2E	178 15.6E	177 55.0E	177 18.9E	177 20.2E	173 46.1E	174 3.5E	174 9.3E	174 20.1E
LORAN START	34684.80	34687.40	34652.50	34644.10	34592.10	34568.70	34569.50	34224.00	34240.10	34258.90	34265.50
LORAN START	13017.30	13030.80	12903.30	12908.50	12700.10	12564.40	12574.20	11236.00	11344.90	11359.90	11454.00
LORAN END	34686.90	34684.50	34655.90	34642.50	34594.70	34567.10	34567.70	34224.20	34237.80	34260.30	34264.90
LORAN END	13026.10	13020.00	12913.00	12903.10	12712.70	12548.40	12557.60	11231.30	11336.10	11372.30	11441.80
GEAR DEPTH	105	84	203	69	84	81	75	41	69	83	114
DURATION IN HOURS	0.25	0.43	0.50	0.22	0.50	0.50	0.50	0.33	0.35	0.50	0.50
DISTANCE FISHED	0.85	1.34	1.60	0.67	1.20	1.60	1.70	1.03	1.05	1.40	1.35
PERFORMANCE / GEAR	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	2210.0	108.1	0.0	3245.5	0.0	199.0	27.0	895.5	130.0	1402.0	1611.0
PACIFIC COD	106.0	111.6	0.0	84.1	35.0	48.0	118.0	227.3	32.9	164.0	56.0
PAC OCEAN PERCH	20.0	2.3	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	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	10.0	0.0	0.0	10.0	26.0	0.0	0.0	7.0	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	3.0	0.0	0.0	3.0	0.0	0.0	0.0	1.0	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	0.0	7.0	22.0	0.0	0.0	3.0	18.4	20.0	0.0	2.6	6.0
OTHER ROUNDFISH	0.0	0.0	0.2	0.0	0.0	3.2	7.0	5.2	0.9	1.8	0.4
TOTAL ROUNDFISH	2336.0	229.1	35.2	3329.5	35.0	270.2	198.4	1147.9	163.7	1578.4	1675.4
ARROWTOOTH FL	6.0	2.3	25.0	9.1	2.0	8.0	1.2	0.6	12.9	52.0	311.0
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	50.0	38.6	6.0	46.0
ROCK SOLE	6.0	22.1	3.0	263.6	99.0	308.0	128.0	16.7	31.4	29.0	156.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	60.0
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	76.7	0.0	0.0	0.0	12.6	42.4	10.9	0.0	30.4	40.4
OTHER FLATFISH	0.0	0.0	0.0	0.0	8.0	10.0	0.0	0.0	0.0	0.0	6.0
TOTAL FLATFISH	12.0	101.2	28.0	272.7	109.0	338.6	171.6	78.2	90.0	117.4	619.4
SKATES	0.0	0.0	0.0	13.6	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	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	13.6	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	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	3.0
SQUID	0.0	0.0	5.0	0.0	0.0	4.2	2.0	0.0	0.0	0.0	4.0
OTHER INVERTS	36.0	149.3	40.0	51.8	14.8	151.6	542.0	78.8	0.3	34.8	0.4
TOTAL INVERTS	36.0	149.3	45.0	51.8	14.8	155.8	544.0	78.8	0.3	34.8	7.4
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	2384.0	479.5	108.2	3667.7	158.8	764.6	914.0	1304.8	254.0	1730.6	2302.2

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/23/86	8/24/86	8/24/86	8/24/86	8/24/86	8/24/86	8/25/86	8/25/86	8/25/86	8/27/86	8/27/86
LATITUDE START	52 30.5	52 19.1	52 28.2	52 30.5	52 29.7	52 32.6	52 48.1	52 51.7	52 48.3	52 57.5	53 1.7
LONGITUDE START	174 14.5E	173 29.8E	173 10.2E	172 56.6E	172 54.4E	172 57.8E	172 37.1E	172 27.6E	172 26.8E	173 14.1E	173 11.0E
LATITUDE END	52 29.6	52 19.9	52 27.2	52 29.9	52 29.3	52 31.6	52 48.5	52 51.4	52 49.6	52 59.1	53 1.3
LONGITUDE END	174 16.3E	173 30.8E	173 9.7E	172 57.3E	172 54.7E	172 57.0E	172 34.6E	172 29.0E	172 25.6E	173 16.0E	173 12.1E
LORAN START	34253.10	34218.60	34176.50	34154.80	34153.70	34152.20	34079.80	34075.00	34076.20		50168.10
LORAN START	11406.40	11161.40	11061.10	11022.40	11020.80	11019.60	11035.40	11038.40	11030.80		34109.30
LORAN END	34257.30	34218.50	34178.00	34157.10	34154.90	34153.10	34063.70	50169.20	34078.10	50166.50	50167.80
LORAN END	11418.20	11164.40	11062.70	11025.30	11022.20	11020.50	11031.40	34079.50	11029.50	34120.00	34112.20
GEAR DEPTH	61	51	65	87	115	75	76	75	190	48	75
DURATION IN HOURS	0.50	0.34	0.40	0.43	0.18	0.43	0.48	0.50	0.25	0.50	0.42
DISTANCE FISHED	1.50	1.09	1.10	1.30	0.55	1.30	1.45	1.50	0.75	1.50	1.25
PERFORMANCE / GEAR	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	2244.0	0.0	11.3	144.2	3966.7	39.5	1.7	2751.0	8.0	0.0	9.5
PACIFIC COD	1561.0	85.3	56.3	1901.2	525.0	176.7	27.1	466.0	68.0	679.0	292.9
PAC OCEAN PERCH	0.0	0.0	0.0	16.3	13.9	0.0	0.0	0.0	2.0	0.0	57.1
NORTHERN RKFH	0.0	0.0	1.8	45.3	2.8	46.5	0.0	0.8	0.0	3.0	2.4
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	20.0	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	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.2
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	39.0	21.2	18.8	4.7	127.8	36.0	3.3	0.8	10.0	10.4	191.0
OTHER ROUNDFISH	0.4	0.6	4.0	2.3	1.7	16.5	0.0	1.0	0.0	1.0	0.5
TOTAL ROUNDFISH	3847.4	107.6	92.0	2114.0	4637.8	315.3	32.1	3219.6	108.0	696.0	554.5
ARROWTOOTH FL	30.0	0.0	15.0	153.5	83.3	0.0	50.0	66.0	0.0	0.0	77.4
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	4.0	10.3	12.5	74.4	66.7	2.3	100.0	191.0	1.6	0.0	40.5
ROCK SOLE	97.0	35.3	57.5	90.7	0.0	55.8	62.5	74.0	0.0	13.0	32.1
REX SOLE	0.0	0.0	0.0	22.1	0.0	0.0	2.1	2.0	2.0	0.0	4.8
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	157.8	13.2	0.0	0.0	0.0	0.0	531.9	0.0	0.0	4.2	6.9
OTHER FLATFISH	4.0	0.0	0.0	0.0	1.1	0.0	12.5	1.6	22.0	0.0	6.0
TOTAL FLATFISH	292.8	58.8	85.0	340.7	151.1	58.1	759.0	334.6	25.6	17.2	167.6
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	6.0	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	0.0	0.0	2.1	0.0	6.0	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	33.3	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	18.0	16.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	52.4	841.2	310.0	30.2	16.7	223.0	37.5	8.6	204.4	1946.0	156.0
TOTAL INVERTS	52.4	841.2	310.0	30.2	66.7	223.0	70.8	26.6	220.4	1946.0	156.0
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	4192.6	1007.6	487.0	2484.9	4855.6	596.5	864.0	3580.8	360.0	2659.2	878.1

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	8/27/86	8/28/86	8/28/86	8/29/86	8/29/86	8/29/86	8/29/86	8/30/86	8/30/86	8/30/86	8/30/86
LATITUDE START	52 46.6	52 3.9	52 3.5	52 4.5	52 3.2	52 1.6	52 2.7	52 1.0	51 56.8	51 58.1	51 56.6
LONGITUDE START	174 3.6E	177 13.8E	177 20.6E	177 41.7E	177 45.3E	177 44.9E	177 40.3E	177 38.5E	178 3.4E	178 10.8E	178 16.8E
LATITUDE END	52 46.5	52 4.2	52 4.2	52 4.9	52 2.5	52 1.4	52 3.2	52 2.3	51 57.5	51 57.3	51 57.2
LONGITUDE END	174 0.8E	177 15.9E	177 22.7E	177 42.1E	177 45.2E	177 46.2E	177 40.8E	177 38.5E	178 2.5E	178 12.4E	178 14.4E
LORAN START	34207.40	12561.90	12602.20	12736.00	12751.90	12748.20	12730.50	12703.90	12856.70	12909.60	12952.80
LORAN START	11354.80	34533.20	34540.20	34565.70	34572.70	34575.00	34566.80	34567.50	34605.50	34613.70	34622.50
LORAN END	34203.60	12551.80	12607.60	12750.10	12760.30	12764.60	12723.70	12724.30	12851.90	12915.60	12938.30
LORAN END	11338.30	34531.80	34542.10	34564.40	34573.40	34576.50	34567.00	34567.00	34603.20	34616.10	34618.60
GEAR DEPTH	50	51	92	45	71	110	50	45	245	135	59
DURATION IN HOURS	0.50	0.50	0.25	0.28	0.20	0.23	0.08	0.46	0.30	0.30	0.50
DISTANCE FISHED	1.55	1.00	0.80	1.00	0.60	0.90	0.25	1.30	1.10	0.90	1.60
PERFORMANCE / GEAR	0 /161	1 /161	0 /161	0 /161	0 /161	0 /161	5 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	474.0	0.0	6156.0	0.0	0.0	130.4	0.0	0.0	0.0	7816.7	5.0
PACIFIC COD	2.0	596.4	408.0	31824.6	770.0	276.1	0.0	45.7	0.0	381.7	988.0
PAC OCEAN PERCH	0.0	0.0	260.0	0.0	0.0	8.7	0.0	0.0	0.0	23.3	0.0
NORTHERN RKFH	0.0	1202.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	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	2.0	3602.2	50.0	0.0	2.5	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	32.0	2.8	36.0	0.0	1.5	7.0	0.0	0.0	2.7	5.7	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	17.0	6.7	0.0
TOTAL ROUNDFISH	510.0	5403.6	6918.0	31824.6	774.0	423.9	0.0	45.7	62.0	8247.3	993.0
ARROWTOOTH FL	6.0	0.0	12.0	0.0	0.0	0.0	0.0	0.7	0.0	8.3	4.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.3	0.0	0.0
FLATHEAD SOLE	22.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	46.0	0.0	84.0	0.0	100.0	195.7	0.0	79.3	0.0	151.7	49.0
REX SOLE	1.0	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	40.0	318.2	29.5	0.0	0.0	51.3	0.0	0.0	91.4
OTHER FLATFISH	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	25.0	0.0
TOTAL FLATFISH	85.0	0.0	154.0	318.2	129.5	195.7	0.0	131.3	107.0	185.0	144.4
SKATES	0.0	0.0	98.4	0.0	0.0	0.0	0.0	0.0	51.7	6.7	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	98.4	0.0	0.0	0.0	0.0	0.0	51.7	6.7	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3	6.7	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	98.6	2496.0	272.0	0.0	1042.0	155.2	0.0	81.5	26.7	30.0	81.2
TOTAL INVERTS	98.6	2496.0	272.0	0.0	1042.0	155.2	0.0	81.5	47.0	86.7	81.2
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	693.6	7899.6	7442.4	32142.9	1945.5	774.8	0.0	258.5	267.7	8525.7	1218.6

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	8/30/86	8/30/86	9/ 7/86	9/ 7/86	9/ 7/86	9/ 7/86	9/ 8/86	9/ 8/86	9/ 8/86	9/ 8/86	9/ 8/86
LATITUDE START	51 58.2	51 54.8	51 53.3	51 53.5	51 58.1	52 2.9	52 3.3	52 3.3	51 58.5	52 15.0	52 10.8
LONGITUDE START	178 15.5E	178 22.3E	179 45.5E	179 44.6E	179 48.9E	179 56.4E	179 52.4	179 46.2	179 43.0	179 39.1	179 51.2
LATITUDE END	51 58.3	51 53.3	51 54.3	51 54.5	51 57.2	52 1.9	52 2.5	52 2.4	51 57.6	52 13.5	52 11.9
LONGITUDE END	178 15.2E	178 22.9E	179 47.1E	179 46.0E	179 48.4E	179 54.7E	179 54.7	179 48.3	179 44.9	179 39.6	179 50.1
LORAN START	12947.30	12973.80	34737.10	34735.80	34735.30	34738.30	34751.30	34759.10	34768.70	49984.30	49986.00
LORAN START	34618.90	34632.10	13502.30	13497.30	13537.70	13599.50	13670.60	13709.90	13715.80	13793.40	13702.30
LORAN END	12951.60	12974.50	34737.90	34736.30	34735.80	34737.40	34749.40	34757.60	34767.60	49982.70	49986.90
LORAN END	34620.50	34635.10	13515.50	13508.80	13531.80	13585.70	13654.40	13694.90	13701.20	13785.40	13712.60
GEAR DEPTH	40	66	66	52	66	71	112	170	223	212	90
DURATION IN HOURS	0.25	0.50	0.50	0.50	0.35	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.70	1.60	1.40	1.33	1.01	1.41	1.59	1.56	1.48	1.49	1.30
PERFORMANCE / GEAR	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	0.0	91.0	1.4	0.0	0.0	0.0	294.0	0.0	0.0	0.0	0.0
PACIFIC COD	86.0	439.0	0.0	0.0	0.0	69.0	248.0	0.0	0.0	0.0	30.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	27.0	14.0	2.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	1.4	0.4	0.0	0.6	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	255.0	116.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	220.0	62.0	12.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	134.0	68.0	4.0
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	41.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	2.0	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	0.0	1.6	1.2	0.0	40.3	8.4	3.0	19.0	2.4	4.4	0.6
OTHER ROUNDFISH	2.0	0.6	0.0	0.0	0.9	1.4	4.4	2.0	14.0	2.0	0.0
TOTAL ROUNDFISH	88.0	532.2	2.6	0.0	44.6	79.2	576.4	57.6	627.4	293.4	46.6
ARROWTOOTH FL	0.0	5.0	0.0	0.0	0.0	0.0	16.0	0.0	21.0	14.0	11.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	164.0	0.0
FLATHEAD SOLE	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	46.0	60.0	13.0	0.6	14.3	35.0	183.0	10.0	0.0	0.0	60.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	14.0	19.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.0	0.0	0.0
PAC HALIBUT	2.4	28.0	142.8	76.4	0.0	79.8	0.0	0.0	0.0	0.0	77.2
OTHER FLATFISH	0.0	0.6	0.0	0.0	0.0	0.0	2.0	0.0	106.0	0.0	0.0
TOTAL FLATFISH	48.4	95.6	155.8	77.0	14.3	114.8	201.0	34.0	176.0	197.0	148.2
SKATES	8.8	5.0	0.0	0.0	0.0	0.0	0.0	10.0	172.4	74.0	0.0
OTHER ELASMOBRH	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	8.8	5.0	0.0	0.0	0.0	0.0	0.0	10.0	172.4	74.0	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	4.0
GOLDEN KING CRAB	16.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	12.0	5.0	0.0
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.0	5.0	2.0	0.0
OTHER INVERTS	33.2	605.8	939.2	246.2	7224.9	2731.6	202.6	16.2	43.0	534.0	134.2
TOTAL INVERTS	49.2	605.8	939.2	246.2	7224.9	2731.6	203.0	33.2	60.0	541.0	138.2
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	194.4	1238.6	1097.6	323.2	7283.7	2925.6	980.4	134.8	1035.8	1105.4	333.0

1966 ALEUTIAN SURVEY R/V LETS GO

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	9/ 8/86	9/10/86	9/10/86	9/10/86	9/10/86	9/12/86	9/12/86	9/12/86	9/17/86	9/18/86	9/18/86
LATITUDE START	52 7.9	52 17.5	52 21.0	52 21.4	52 24.1	52 7.4	52 10.4	52 8.1	52 58.5	53 25.0	53 24.8
LONGITUDE START	179 55.5	179 53.1	179 50.2	179 49.2	179 42.8	179 27.4E	179 27.1E	179 31.9E	170 2.6	168 41.4	168 37.6
LATITUDE END	52 8.8	52 16.8	52 19.7	52 19.8	52 23.6	52 9.2	52 9.9	52 9.5	52 58.6	53 23.6	53 23.5
LONGITUDE END	179 53.8	179 54.8	179 49.7	179 49.2	179 44.8	179 28.9E	179 26.8E	179 34.1E	170 3.5	168 42.5	168 38.0
LORAN START	49985.20	13711.90	13742.20	13750.70	13800.80	13428.00	13433.60	13458.90	17082.40	17493.80	17504.40
LORAN START	13666.50	49996.50	49999.60	50000.10	49999.60	34696.20	34691.40	34700.90	49128.30	48910.50	48894.70
LORAN END	49985.40	13698.50	13740.90	13745.80	13785.90	13441.90	13430.50	13476.60	17079.80	17483.60	17496.00
LORAN END	13679.70	49996.70	49997.40	49998.20	50000.20	34695.40	34691.90	34701.70	49131.90	48910.70	48892.70
GEAR DEPTH	74	62	81	92	120	141	174	85	66	117	71
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.17	0.50	0.50
DISTANCE FISHED	1.40	1.26	1.40	1.60	1.34	2.00	0.60	2.00	0.58	1.50	1.40
PERFORMANCE / GEAR	0 /161	0 /160	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	1 /161	0 /161	0 /161
POLLOCK	0.2	0.0	0.0	89.0	1427.0	1120.0	6.0	7028.0	0.0	565.8	0.0
PACIFIC COD	0.0	896.0	0.0	108.0	33.0	277.0	54.0	655.0	0.0	199.0	164.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	543.0	88.0	0.0	0.0	0.0	4519.0	0.0
NORTHERN RKFH	0.4	0.0	0.0	0.6	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	6.0	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	18.0	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	0.8	5.2	1.0	3.0	34.6	7.0	3.8	0.0	1.8	0.0	0.0
OTHER ROUNDFISH	0.2	0.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0	10.4	0.0
TOTAL ROUNDFISH	7.6	901.2	1.0	201.6	2037.6	1493.0	64.8	7683.0	1.8	5312.2	164.0
ARROWTOOTH FL	0.0	0.0	30.0	36.0	3.0	0.0	0.0	0.0	2.9	0.0	22.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	28.0	26.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	16.0	58.0	58.0	14.0	3.0	6.0	84.0	120.0	8.8	2.4	131.0
REX SOLE	0.0	0.0	0.0	1.0	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	137.8	85.5	0.0	40.6	0.0	0.0	0.0	146.6	0.0	24.8	124.6
OTHER FLATFISH	0.0	0.0	0.0	0.0	15.0	0.0	62.0	0.0	0.0	3.0	0.0
TOTAL FLATFISH	153.8	143.6	88.0	91.6	22.0	34.0	172.0	266.6	11.8	30.2	277.6
SKATES	0.0	0.0	0.0	0.0	66.0	100.0	44.0	25.6	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	988.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	0.0	66.0	1088.0	44.0	25.6	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	24.0	0.0	32.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	14.0	0.0	0.0	9.0	4.2	12.0	0.0	0.0	0.0
SQUID	0.0	0.0	0.0	0.0	0.4	0.0	4.0	4.0	0.0	0.0	0.0
OTHER INVERTS	311.0	640.2	74.8	260.0	2626.6	78.4	26.0	49.2	1164.7	97.6	54.2
TOTAL INVERTS	335.0	640.2	120.8	282.0	2627.0	87.4	34.2	65.2	1164.7	97.6	54.2
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	496.4	1685.0	209.8	575.2	4752.6	2702.4	315.0	8040.4	1178.2	5440.0	495.8

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	9/19/86	9/19/86	9/19/86	9/19/86	9/20/86	9/20/86	9/20/86	9/20/86	9/20/86	9/20/86	9/21/86
LATITUDE START	53 18.1	53 20.6	53 22.4	53 24.0	53 29.4	53 33.5	53 39.1	53 36.7	53 43.7	53 47.7	53 45.2
LONGITUDE START	168 26.6	168 30.8	168 34.4	168 28.7	167 36.0	167 34.8	167 33.3	167 29.1	167 10.8	167 8.4	166 57.2
LATITUDE END	53 19.0	53 21.6	53 23.0	53 23.7	53 30.8	53 31.9	53 37.5	53 38.2	53 43.5	53 46.4	53 46.0
LONGITUDE END	168 28.9	168 32.6	168 36.0	168 31.2	167 35.6	167 34.9	167 34.0	167 28.9	167 8.3	167 7.1	166 59.4
LORAN START	17498.80	17500.20	17500.10	17524.90	17688.80	17713.00	17745.30	17743.40	17818.90	17844.60	17854.80
LORAN START	48831.00	48855.70	48874.90	48856.40	48643.30	48648.80	48656.40	48630.90	48562.40	48560.90	48501.10
LORAN END	17496.80	17500.90	17499.10	17516.30	17697.30	17704.30	17735.00	17751.80	17823.30	17840.90	17853.90
LORAN END	48842.60	48865.30	48883.20	48865.50	48643.10	48644.90	48655.30	48633.90	48549.90	48551.40	48513.40
GEAR DEPTH	38	49	49	43	44	46	57	51	69	44	22
DURATION IN HOURS	0.50	0.50	0.40	0.50	0.50	0.50	0.50	0.50	0.50	0.47	0.48
DISTANCE FISHED	1.60	1.40	1.20	1.60	1.40	1.65	1.70	1.60	1.51	1.50	1.50
PERFORMANCE / GEAR	0 /160	0 /160	1 /161	0 /160	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	0.2	0.0	0.0	0.0	0.2	0.4	0.0	0.0	48.6	0.0	5.2
PACIFIC COD	874.0	127.0	33.8	3972.0	26.0	44.0	3469.8	0.0	256.0	266.0	284.4
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	6679.4	1.2	11.0	4.3	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	3.0	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	3.0	0.0	0.0	3.0	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	8.3
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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	174.0	24.0	57.5	23.0	17.0	60.0	0.0	0.0	15.2	15.3	22.9
OTHER ROUNDFISH	0.2	0.0	0.3	0.2	0.2	0.4	276.2	0.0	1.0	0.6	8.5
TOTAL ROUNDFISH	1048.4	151.0	91.5	3995.2	43.4	107.8	10425.4	1.2	359.8	288.3	329.4
ARROWTOOTH FL	21.4	25.0	2.5	0.0	18.0	26.0	0.0	0.4	73.0	19.1	56.3
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	11.0	1.0	1.0	0.0	0.0	3.0	28.6	0.0	2.0	4.3	74.0
ROCK SOLE	34.0	83.0	92.5	174.0	566.0	364.0	101.6	117.0	18.0	116.0	354.2
REX SOLE	4.0	0.4	0.0	0.0	4.0	4.0	0.0	0.0	6.0	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	205.8	39.8	20.3	80.4	123.6	8.2	78.8	0.0	141.8	44.3	97.7
OTHER FLATFISH	121.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	401.0
TOTAL FLATFISH	397.2	158.0	116.3	254.4	711.6	405.2	209.0	117.4	240.8	186.8	983.1
SKATES	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	116.3
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	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	116.3
TANNER CRAB	0.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	12.6	10.4	212.7	6.0	15.0	19.2	5.6	21.2	82.0	44.0	32.5
TOTAL INVERTS	12.6	11.4	215.2	6.0	15.0	19.2	5.6	21.2	82.0	44.0	32.9
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	1497.2	320.4	423.0	4255.6	770.0	532.2	10640.0	139.8	690.6	519.1	1461.7

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	9/21/86	9/21/86	9/21/86	9/21/86	9/21/86	9/23/86	9/23/86	9/23/86	9/23/86	9/23/86	9/24/86
LATITUDE START	53 41.9	53 43.7	53 46.9	53 49.2	53 49.3	54 14.7	54 14.1	54 19.8	54 20.1	54 16.2	54 15.2
LONGITUDE START	166 46.9	166 54.4	167 5.3	167 8.8	167 10.4	165 56.6	165 54.5	165 53.0	165 54.5	165 51.0	165 48.1
LATITUDE END	53 42.6	53 44.4	53 45.6	53 48.5	53 48.1	54 14.6	54 14.4	54 18.9	54 19.0	54 15.5	54 13.7
LONGITUDE END	166 48.9	166 57.1	167 4.0	167 7.9	167 8.5	165 58.7	165 56.2	165 55.4	165 56.2	165 53.4	165 47.9
LORAN START	17857.40	17851.90	17846.90	17852.00	17848.90	18100.10	18100.40	18127.70	18127.80	18114.90	18114.20
LORAN START	48442.60	48484.50	48543.80	48566.20	48573.90	48252.80	48239.80	48245.70	48251.10	48225.20	48206.90
LORAN END	17857.60	17850.60	17843.00	17850.00	17846.70	18096.70	18099.40	18121.50	18120.60	18108.20	18107.50
LORAN END	48453.90	48498.30	48534.70	48560.30	48562.60	48263.40	48249.80	48254.00	48258.50	48236.70	48203.30
GEAR DEPTH	52	108	26	19	37	35	27	81	144	46	45
DURATION IN HOURS	0.43	0.50	0.50	0.30	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.40	1.70	1.50	0.90	1.58	1.20	1.09	1.50	1.46	1.60	1.50
PERFORMANCE / GEAR	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161	0 /161
POLLOCK	7027.9	1127.0	0.0	0.0	0.0	0.0	0.0	246.0	642.0	3.0	6.0
PACIFIC COD	134.4	101.0	0.0	0.0	0.0	0.0	1.0	481.0	23.0	44.0	4294.0
PAC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.0	0.0	0.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	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	14.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	178.0	0.0	4.0
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	1.9	48.4	0.0	0.0	0.0	0.0	0.0	0.0	18.4	7.4	0.0
OTHER ROUNDFISH	10.2	8.4	0.4	0.0	0.0	0.0	0.4	34.2	13.0	0.4	0.2
TOTAL ROUNDFISH	7189.3	1290.4	0.4	0.0	0.0	0.0	1.4	761.2	986.4	54.8	4304.2
ARROWTOOTH FL	74.7	170.0	0.0	0.0	0.0	0.8	0.0	16.0	479.0	13.0	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	125.6	422.0	18.0	0.0	0.0	0.0	0.0	16.0	652.0	33.0	26.0
ROCK SOLE	3.0	10.0	26.0	143.3	319.0	9.0	118.0	16.0	0.0	94.0	180.0
REX SOLE	0.0	4.2	0.0	0.0	0.0	0.0	0.0	4.0	50.0	11.0	3.8
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	4.2	30.0	1.0	22.4	24.6	0.0	0.0	0.0	66.8
OTHER FLATFISH	62.8	0.0	2.6	12.7	11.0	0.0	6.8	1.6	42.0	30.0	7.0
TOTAL FLATFISH	266.0	606.2	50.8	186.0	331.0	32.2	149.4	53.6	1223.0	181.0	294.8
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TANNER CRAB	32.8	61.0	3.0	0.0	0.0	0.0	0.0	0.4	0.4	0.2	7.0
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	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
OTHER INVERTS	0.0	73.0	0.0	17.3	10.0	18.0	26.2	6.0	12.6	150.6	16.4
TOTAL INVERTS	32.8	134.5	3.0	17.3	10.0	18.0	26.2	6.4	13.0	153.8	23.4
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	7488.1	2031.2	54.2	203.3	341.0	50.2	177.0	821.2	2222.4	389.6	4622.8

1986 ALEUTIAN SURVEY R/V LETS GO

HAUL #	133	134	135
MONTH/DAY/YEAR	9/24/86	9/24/86	9/24/86
LATITUDE START	54 20.9	54 13.5	54 13.6
LONGITUDE START	165 38.6	166 2.4	166 1.7
LATITUDE END	54 19.7	54 14.4	54 14.4
LONGITUDE END	165 38.8	165 59.8	165 59.2
LORAN START	18151.90	18086.70	18087.80
LORAN START	48164.90	48281.30	48277.20
LORAN END	18146.30	18094.20	18095.10
LORAN END	48163.50	48269.00	48265.50
GEAR DEPTH	47	39	27
DURATION IN HOURS	0.45	0.44	0.50
DISTANCE FISHED	1.20	1.77	1.67
PERFORMANCE / GEAR	0 /161	0 /161	0 /161
POLLOCK	0.0	0.0	0.0
PACIFIC COD	6.7	0.9	0.0
PAC OCEAN PERCH	0.2	0.0	0.0
NORTHERN RKFH	0.2	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0
SCULPINS	11.1	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.2
TOTAL ROUNDFISH	18.2	0.9	0.2
ARROWTOOTH FL	0.2	0.7	6.0
GREENLAND TURBOT	0.0	0.0	0.0
FLATHEAD SOLE	0.2	0.0	0.0
ROCK SOLE	40.0	150.0	210.0
REX SOLE	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0
PAC HALIBUT	26.4	36.6	42.0
OTHER FLATFISH	0.0	0.0	0.0
TOTAL FLATFISH	66.9	187.3	258.0
SKATES	0.2	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0
TOTAL ELASMOBRH	0.2	0.0	0.0
TANNER CRAB	11.1	0.0	2.0
RED KING CRAB	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0
SQUID	0.0	0.0	0.0
OTHER INVERTS	580.4	35.7	10.2
TOTAL INVERTS	591.6	35.7	12.2
OTHER	0.0	0.0	0.0
TOTAL CATCH	676.9	223.9	270.4

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	5/18/86	5/19/86	5/19/86	5/19/86	5/20/86	5/20/86	5/20/86	5/20/86	5/20/86	5/21/86	5/21/86
LATITUDE START	52 54.1	52 56.4	52 58.2	53 14.3	53 15.1	53 6.8	52 42.6	52 34.4	52 22.3	52 20.4	52 13.6
LONGITUDE START	170 50.8E	171 0.2E	170 58.1E	170 42.2E	170 46.7E	170 52.5E	172 42.5E	172 55.1E	173 3.4E	173 11.3E	173 33.1E
LATITUDE END	52 53.4	52 55.3	52 59.5	53 16.0	53 14.2	53 6.6	52 40.8	52 32.7	52 23.5	52 21.6	52 13.6
LONGITUDE END	170 53.2E	170 57.0E	170 55.5E	170 42.4E	170 49.8E	170 55.1E	172 43.8E	172 57.3E	173 1.0E	173 9.8E	173 33.9E
LORAN START	11084.00	11087.30	11094.50	11164.90	11167.20	11129.60	11001.60	11011.80	11057.90	11086.40	11189.20
LORAN START	33951.90	33957.80	33951.90	33896.90	33900.50	33926.10	34111.50	34145.60	34179.40	34193.20	34233.40
LORAN END	11080.90	11085.20	11100.20	11172.70	11162.40	11127.70	11000.20	11019.00	11049.30	11078.70	11193.80
LORAN END	33956.20	33956.50	33945.70	33893.20	33906.20	33929.70	34118.20	34152.00	34174.44	34189.20	34234.80
GEAR DEPTH	230	137	71	98	71	51	79	96	210	88	79
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.37	0.08
DISTANCE FISHED	1.80	2.30	2.30	1.80	2.20	1.80	2.40	2.20	1.90	1.44	0.50
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	5 /712
POLLOCK	0.0	32.6	1913.2	16112.8	95.2	172.0	2548.6	7079.0	0.0	20630.5	0.0
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	94.8	2674.2	1292.0	0.0	6482.7	0.0
PAC OCEAN PERCH	0.0	55.2	28.6	15331.4	0.0	0.0	0.0	0.0	0.0	2294.1	0.0
NORTHERN RKFH	0.0	0.0	14568.2	0.0	11428.8	2978.4	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	163.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0	493.8	43.5	0.0
ROUGHEYE RKFH	416.6	121.2	112.4	0.0	23.8	0.0	0.0	12.4	332.8	49.5	0.0
SHORTSPINE TH	68.4	370.4	0.0	0.0	0.0	0.0	0.0	0.0	1007.6	26.8	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
SABLEFISH	64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	125.6	0.0	0.0
ATKA MACKEREL	0.0	432.2	9841.0	1112.8	27421.2	950.2	37.4	9.8	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.8	0.0	0.0
SCULPINS	0.0	3.0	369.4	1185.8	354.6	4432.2	63.4	101.8	0.0	82.7	0.0
OTHER ROUNDFISH	8.4	8.4	1867.0	1478.8	2460.4	24.6	2.2	2.2	0.0	5.9	0.0
TOTAL ROUNDFISH	720.6	1032.2	28719.8	35221.6	41784.0	8652.2	5325.8	8497.2	2109.0	29615.7	0.0
ARROWTOOTH FL	0.0	4.4	0.0	50.0	0.0	0.0	51.6	130.0	920.2	262.2	0.0
GREENLAND TURBOT	46.2	54.6	0.0	0.0	0.0	0.0	0.0	0.0	86.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	18.6	15.4	6.6	134.4	0.0	579.7	0.0
ROCK SOLE	0.0	0.0	31.4	177.6	108.4	687.8	86.0	130.0	0.0	95.4	0.0
REX SOLE	0.0	5.2	0.0	56.8	0.0	0.0	2.2	55.2	9.2	150.3	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	37.4	189.6	489.8	76.2	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	46.2	64.2	31.4	324.4	127.0	703.2	183.8	639.2	1508.2	1163.8	0.0
SKATES	3.0	302.4	0.4	4407.4	251.4	6.2	42.4	0.0	187.4	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	3.0	302.4	0.4	4407.4	251.4	6.2	42.4	0.0	187.4	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.4	0.0	1.4	0.0	0.0	1.8	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	2.2	205.0	23.4	191.0	94.8	152.2	0.0	10.2	99.2	14.3	0.0
SQUID	357.2	31052.2	0.0	0.0	0.8	0.0	0.0	0.0	2.6	3.0	0.0
OTHER INVERTS	0.0	15.4	7.8	9.2	2.2	6.6	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	359.4	31272.6	31.2	200.6	97.8	160.2	0.0	10.2	103.6	17.3	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	1129.2	32671.4	28782.8	40154.0	42260.2	9521.8	5552.0	9146.6	3908.2	30796.8	0.0

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	5/21/86	5/21/86	5/21/86	5/22/86	5/22/86	5/22/86	5/22/86	5/22/86	5/22/86	5/23/86	5/23/86
LATITUDE START	52 14.4	52 9.7	52 10.4	52 22.4	52 35.5	52 39.7	52 39.8	52 30.1	52 24.9	52 23.2	52 23.0
LONGITUDE START	173 44.7E	173 49.4E	173 42.4E	173 58.0E	173 52.8E	173 54.1E	173 56.1E	174 23.4E	174 15.8E	174 20.6E	174 37.9E
LATITUDE END	52 14.5	52 7.8	52 11.4	52 24.5	52 36.1	52 39.5	52 39.5	52 28.7	52 23.0	52 24.1	52 22.7
LONGITUDE END	173 40.CE	173 48.0E	173 39.0E	173 58.4E	173 48.9E	173 50.8E	173 59.7E	174 20.3E	174 12.5E	174 23.6E	174 34.5E
LORAN START	11243.30	11275.70	11239.80	11305.10	11263.20	11280.10	11293.40	11464.70	11413.10	11443.10	11554.00
LORAN START	34246.60	34261.30	34251.10	34246.20	34215.80	34209.20	34211.40	34265.50	34266.00	34275.10	34297.80
LORAN END	11210.10	11271.80	11221.30	11305.50	11243.70	11257.90	11317.40	11443.10	11392.50	11462.20	11532.00
LORAN END	34240.10	34263.CO	34245.00	34244.50	34209.70	34205.20	34216.80	34264.30	34265.40	34277.30	34293.90
GEAR DEPTH	46	65	90	66	66	44	41	98	134	191	332
DURATION IN HOURS	0.08	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.10	2.00	2.34	2.20	2.30	2.10	2.10	2.40	2.70	2.10	2.20
PERFORMANCE / GEAR	5 /712	0 /712	0 /712	0 /712	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	94.8	130.0	130.0	265.0	125.6	0.0	1393.4	130.0	13.2	23.4
PACIFIC COD	0.0	648.2	465.2	198.4	978.8	1009.2	10276.2	568.8	242.6	0.0	0.0
PAC OCEAN PERCH	0.0	55.2	0.0	0.0	0.0	0.0	0.0	0.0	77.2	68.4	0.0
NORTHERN RKFH	0.0	24.2	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	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	81.6	46.2	33.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.2	295.4
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	698.8
ATKA MACKEREL	0.0	12.4	0.0	5.2	23.4	7.0	46.2	3.6	2.2	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	1900.4
SCULPINS	0.0	116.6	44.4	263.2	249.6	2235.0	764.6	121.0	13.6	0.8	0.0
OTHER ROUNDFISH	0.0	0.4	1.4	19.0	27.6	12.0	0.4	2.2	30.6	5.6	786.4
TOTAL ROUNDFISH	0.0	956.2	641.0	615.8	1544.4	3388.8	11087.4	2089.0	577.8	244.4	3737.4
ARROWTOOTH FL	0.0	61.6	33.0	33.0	103.6	57.4	33.0	187.4	390.2	136.6	328.4
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	194.0	416.6
FLATHEAD SOLE	0.0	209.4	200.6	209.4	299.8	105.8	138.8	218.2	116.8	6.6	0.0
ROCK SOLE	0.0	209.4	374.8	787.0	531.4	915.0	425.4	231.4	191.8	0.0	0.0
REX SOLE	0.0	61.6	34.8	41.8	0.0	0.0	0.0	33.0	535.8	213.8	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	123.4	224.8	45.4	26.0	0.4	206.0	146.0	355.4	4.8	25.6
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0
TOTAL FLATFISH	0.0	705.4	868.0	1116.6	960.8	1078.6	803.2	816.0	1590.0	555.8	792.6
SKATES	0.0	37.4	41.8	14.6	0.0	0.0	0.0	37.4	77.2	5.8	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	37.4	41.8	14.6	0.0	0.0	0.0	37.4	77.2	5.8	0.0
TANNER CRAB	0.0	0.0	0.0	0.8	2.6	2.2	0.0	0.0	0.0	2.2	2.2
RED KING CRAB	0.0	0.0	0.0	0.0	64.0	8.8	14.6	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	55.2	19.0	41.8	10.2
SQUID	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	63.4	12.0
OTHER INVERTS	0.0	0.4	0.0	0.0	15.4	0.4	0.0	15.4	0.0	0.0	0.4
TOTAL INVERTS	0.0	0.4	0.0	0.8	82.0	11.4	14.6	70.6	25.2	107.4	24.8
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	0.0	1699.4	1550.8	1747.8	2587.2	4478.8	11905.2	3013.0	2270.2	913.4	4554.8

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	5/23/86	5/23/86	5/23/86	5/24/86	5/24/86	5/24/86	5/24/86	5/24/86	5/24/86	5/25/86	5/25/86
LATITUDE START	52 29.0	52 32.2	52 37.0	52 34.6	52 37.9	52 37.0	52 35.2	52 35.9	52 38.1	52 16.3	52 14.1
LONGITUDE START	174 44.4E	174 29.3E	174 43.2E	174 41.4E	174 39.7E	174 40.9E	174 41.0E	174 40.8E	174 39.7E	175 13.4E	175 27.8E
LATITUDE END	52 31.2	52 31.2	52 39.1	52 36.5	52 37.7	52 35.9	52 36.7	52 37.1	52 37.6	52 15.3	52 12.1
LONGITUDE END	174 44.1E	174 25.8E	174 42.3E	174 42.1E	174 40.3E	174 41.1E	174 41.5E	174 40.3E	174 41.7E	175 10.4E	175 28.0E
LORAN START	11605.50	11506.10	11607.50	11591.00	11586.00	11592.30	11589.10	11589.40	11586.20	11778.90	11871.00
LORAN START	34295.20	34268.50	34277.50	34279.90	34271.30	34274.60	34278.20	34276.60	34270.90	34355.50	34378.00
LORAN END	11603.60	11481.40	11598.20	11599.20	11589.80	11591.00	11595.40	11588.30	11598.90	11758.60	11869.70
LORAN END	34289.90	34266.50	34280.20	34277.10	34272.40	34276.80	34275.90	34273.60	34274.20	34353.60	34381.90
GEAR DEPTH	312	98	156	66	60	66	55	55	63	128	202
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.08	0.17	0.30	0.25	0.25	0.50	0.50
DISTANCE FISHED	2.20	2.50	2.00	2.00	0.40	1.00	1.50	1.21	1.10	2.10	2.00
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	5.2	77.2	68.4	116.0	NO CATCH RECORDED TAGGING STATION					3359.8	0.0
PACIFIC COD	0.0	326.2	337.4	5389.0						1146.4	0.0
PAC OCEAN PERCH	0.0	0.0	3858.2	0.0						110.6	0.0
NORTHERN RKFH	0.0	0.0	1.8	727.6						0.0	0.0
SHORTRAKER RKFH	68.4	0.0	28.6	0.0						0.0	389.4
ROUGHEYE RKFH	0.0	0.0	81.6	0.0						0.0	39082.4
SHORTSPINE TH	249.2	0.0	80.6	0.0						0.0	303.0
OTHER ROCKFISH	1.8	0.0	0.0	0.0						0.0	0.0
SABLEFISH	557.8	0.0	26.8	0.0						0.0	504.8
ATKA MACKEREL	0.0	2.2	4.0	1102.8						0.0	0.0
GIANT GRENADIER	4096.2	0.0	0.0	0.0						0.0	0.0
SCULPINS	20.2	589.6	99.6	1833.4						115.4	23.0
OTHER ROUNDFISH	138.4	13.2	27.8	14.6						18.0	0.0
TOTAL ROUNDFISH	5137.2	1008.4	4614.8	13183.4						4750.2	40302.6
ARROWTOOTH FL	185.2	344.0	6730.8	50.8						511.4	2537.6
GREENLAND TURBOT	163.2	0.0	26.4	0.0						0.0	1067.0
FLATHEAD SOLE	0.0	601.8	134.4	6.2						0.0	0.0
ROCK SOLE	0.0	460.8	68.4	593.0						0.0	0.0
REX SOLE	0.0	615.0	1157.4	0.0						0.0	0.0
DOVER SOLE	0.0	0.0	3.6	0.0						0.0	0.0
PAC HALIBUT	82.4	248.6	196.6	299.8						88.2	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0						0.0	0.0
TOTAL FLATFISH	430.8	2270.2	8317.6	949.8						599.6	3604.6
SKATES	4.8	99.2	112.4	0.0						68.4	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0						0.0	0.0
TOTAL ELASMOBRH	4.8	99.2	112.4	0.0						68.4	0.0
TANNER CRAB	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
GOLDEN KING CRAB	2.2	0.0	52.4	8.8						50.8	0.0
SQUID	23.0	0.0	648.2	0.0						0.0	0.0
OTHER INVERTS	1.2	0.0	0.0	0.0						0.0	0.0
TOTAL INVERTS	26.4	0.0	700.6	8.8						50.8	0.0
OTHER	0.0	0.0	0.0	0.0						0.0	0.0
TOTAL CATCH	5599.2	3377.8	13745.4	14142.0						5469.0	43907.2

1966 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	5/25/66	5/26/66	5/26/66	5/26/66	5/26/66	5/26/66	5/27/66	5/27/66	5/27/66	5/27/66	5/27/66
LATITUDE START	52 5.8	51 56.4	51 51.8	51 42.3	51 39.7	51 42.4	51 43.4	51 44.4	51 53.5	52 1.4	52 14.5
LONGITUDE START	175 27.1E	175 24.7E	175 15.9E	175 32.4E	175 44.4E	175 50.6E	175 50.6E	175 52.1E	175 53.4E	175 57.3E	175 52.3E
LATITUDE END	52 4.7	51 54.8	51 53.5	51 40.6	51 39.2	51 43.4	51 44.0	51 43.2	51 54.3	52 1.1	52 15.5
LONGITUDE END	175 24.5E	175 24.2E	175 14.2E	175 34.0E	175 40.3E	175 53.6E	175 50.6E	175 51.5E	175 56.0E	175 57.3E	175 48.8E
LORAN START	11858.60	11838.10	11783.50	11882.90	11954.30	11992.90	11993.00	12002.50	12016.20	12048.10	12030.20
LORAN START	34391.50	34405.10	34401.90	34438.30	34457.30	34460.90	34459.20	34459.40	34446.20	34437.90	34408.40
LORAN END	11840.90	11834.70	11773.10	11892.30	11929.60	12011.80	12000.00	11998.50	12032.80	12047.20	12010.40
LORAN END	34390.04	34407.20	34396.80	34442.90	34452.90	34463.00	34459.70	34460.60	34448.10	34438.30	34401.80
GEAR DEPTH	465	350	142	96	90	71	55	55	79	41	208
DURATION IN HOURS	0.50	0.50	0.42	0.50	0.50	0.50	0.17	0.16	0.50	0.08	0.50
DISTANCE FISHED	2.00	1.69	2.00	2.00	2.50	2.10	0.70	0.70	2.10	0.40	2.42
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	5 /712	0 /712
POLLOCK	0.0	0.0	2.6	103.6	1120.0	208.6	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	6878.4	0.0	2.6
PACIFIC COD	0.0	0.0	23.6	41.0	742.0	178.2			103.6	0.0	0.0
PAC OCEAN PERCH	0.0	0.0	8328.3	1060.4	0.0	6.6			68.4	0.0	4.4
NORTHERN RKFH	0.0	0.0	0.0	249.2	686.0	1941.8			0.0	0.0	0.0
SHORTRAKER RKFH	0.0	225.8	123.3	0.0	0.0	0.0			0.0	0.0	158.8
ROUGHEYE RKFH	0.0	0.0	0.0	11486.2	0.0	673.8			24.2	0.0	734.2
SHORTSPINE TH	112.4	560.0	288.1	0.0	0.0	0.0			0.0	0.0	496.0
OTHER ROCKFISH	0.0	0.0	6.2	0.0	0.0	13.2			0.0	0.0	0.0
SABLEFISH	332.8	970.0	55.0	0.0	0.0	0.0			0.0	0.0	64.0
ATKA MACKEREL	0.0	0.0	0.0	7.0	40570.4	39658.2			222.6	0.0	0.0
GIANT GRENADIER	7647.8	4206.6	0.0	0.0	0.0	0.0			0.0	0.0	0.0
SCULPINS	0.0	0.0	365.2	370.8	141.6	115.4			244.6	0.0	40.2
OTHER ROUNDFISH	204.6	200.2	103.3	116.8	1174.2	559.2			57.4	0.0	0.4
TOTAL ROUNDFISH	8297.6	6164.6	9295.7	13435.0	44434.2	60825.0			7599.2	0.0	1500.6
ARROWTOOTH FL	0.0	0.0	225.2	29.6	8.4	0.0			242.6	0.0	3851.4
GREENLAND TURBOT	112.4	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	19.8	25.2	0.0			0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	462.0	282.6			209.4	0.0	0.0
REX SOLE	0.0	0.0	0.0	5.8	204.6	0.0			218.2	0.0	0.0
DOVER SOLE	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	72.4
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
TOTAL FLATFISH	112.4	0.0	225.2	55.2	700.2	282.6			670.2	0.0	3923.8
SKATES	1.8	34.4	157.4	3.0	7.0	4.4			349.2	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
TOTAL ELASMOBRH	1.8	34.4	157.4	3.0	7.0	4.4			349.2	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
GOLDEN KING CRAB	6.2	1.8	146.9	1.4	0.0	0.0			0.0	0.0	2.2
SQUID	0.0	3.6	8.8	0.4	0.0	0.0			0.0	0.0	85.0
OTHER INVERTS	0.4	4.0	14.8	0.0	10.2	169.8			0.8	0.0	0.0
TOTAL INVERTS	6.6	9.4	170.5	1.8	10.2	169.8			0.8	0.0	87.2
OTHER	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
TOTAL CATCH	8418.4	6208.4	9848.8	13495.0	45151.6	61281.8			8619.4	0.0	5511.6

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	5/28/86	5/30/86	5/30/86	5/31/86	5/31/86	5/31/86	5/31/86	5/31/86	6/ 1/86	6/ 1/86	6/ 1/86
LATITUDE START	52 13.9	52 9.7	52 21.1	52 7.2	52 4.4	51 54.6	51 45.4	51 48.8	51 44.4	51 49.0	51 42.6
LONGITUDE START	176 1.2E	176 10.9E	176 9.9E	176 23.1E	176 21.3E	176 5.7E	177 3.0E	177 6.9E	177 16.2E	177 33.4E	177 43.6E
LATITUDE END	52 13.1	52 8.1	52 20.4	52 6.9	52 3.6	51 55.8	51 45.7	51 49.5	51 45.0	51 49.1	51 41.6
LONGITUDE END	176 2.7E	176 13.1E	176 13.0E	176 23.6E	176 23.4E	176 8.1E	177 5.5E	177 7.7E	177 18.9E	177 36.7E	177 46.4E
LORAN START	12089.80	12146.80	12160.90	12223.00	12207.20	12094.50	12447.80	12478.10	12530.30	12648.00	12701.50
LORAN START	34421.30	34440.90	34419.70	34461.11	34463.60	34459.90	34546.80	34546.50	34564.80	34579.40	34601.60
LORAN END	12098.20	12159.20	12179.80	12225.70	12219.50	12110.60	12464.50	12484.00	12548.60	12669.00	12717.50
LORAN END	34424.50	34446.60	34425.10	34462.10	34467.40	34461.00	34549.40	34546.30	34567.20	34583.50	34606.40
GEAR DEPTH	98	71	134	52	87	219	82	44	82	89	301
DURATION IN HOURS	0.50	0.50	0.50	0.08	0.50	0.50	0.50	0.33	0.50	0.50	0.50
DISTANCE FISHED	1.30	2.10	1.90	0.40	1.50	1.70	1.70	1.00	2.00	2.00	2.00
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	5 /712	0 /712	0 /712	0 /712	1 /712	0 /712	0 /712	0 /712
POLLOCK	5809.2	151.8	485.0	0.0	112.4	0.0	0.0	983.3	2475.8	66.2	0.0
PACIFIC COD	2713.8	712.0	1856.2	0.0	595.2	0.0	5991.8	730.9	1684.4	77.2	0.0
PAC OCEAN PERCH	64.0	158.8	15312.4	0.0	5767.4	0.0	581.2	33.9	6.6	0.0	0.0
NORTHERN RKFH	20.2	2764.6	0.0	0.0	366.0	0.0	15410.0	5481.5	50984.8	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	370.4	0.0	0.0	0.0	0.0	37.4
ROUGHEYE RKFH	0.0	15.4	6.6	0.0	71.0	2533.2	3426.8	48.2	84.2	0.0	0.0
SHORTSPINE TF	0.0	0.0	0.0	0.0	0.0	824.6	0.0	0.0	0.0	0.0	271.2
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	326.2	0.0	0.0	0.0	0.0	251.4
ATKA MACKEREL	0.0	25804.4	4.8	0.0	0.0	0.0	60336.8	217178.8	0.0	18.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.8
SCULPINS	50.4	42.8	45.8	0.0	19.4	18.0	126.2	9.4	108.0	64.0	0.0
OTHER ROUNDFISH	13.2	49.8	15.0	0.0	4.8	3.6	2.2	6.1	71.0	0.0	318.8
TOTAL ROUNDFISH	8670.8	29739.6	17725.8	0.0	6936.2	4079.0	85875.0	224472.1	55414.8	225.4	1211.6
ARROWTOOTH FL	17.2	0.0	324.0	0.0	0.0	1126.6	0.0	0.0	0.0	19.4	54.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	24.2	0.0	0.0	0.0	0.0	224.8
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	90.4	27.4	0.0	0.0	7.0	0.0	106.2	0.0	151.6	132.2	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	32.6	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	67.0	0.0	52.0	0.0	0.0	486.4	52.0	0.0	0.0	60.4	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	174.6	27.4	376.0	0.0	7.0	1675.6	158.2	0.0	151.6	212.0	288.8
SKATES	321.8	13.6	0.0	0.0	0.0	6.6	0.0	0.0	0.0	112.4	8.4
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	321.8	13.6	0.0	0.0	0.0	6.6	0.0	0.0	0.0	112.4	8.4
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	108.0	11.0	213.8	0.0	0.0	37.4	0.0	0.0	0.0	0.0	29.2
SQUID	0.0	0.0	4.4	0.0	0.0	99.2	0.0	0.0	0.0	0.0	6.6
OTHER INVERTS	0.4	2.2	0.4	0.0	0.4	20.8	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	108.4	13.2	218.6	0.0	0.4	157.4	0.0	0.0	0.0	0.0	35.8
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	9275.6	29793.8	18320.4	0.0	6943.6	5918.6	86033.2	224472.1	55566.4	549.8	1544.6

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	6/ 1/86	6/ 1/86	6/ 2/86	6/ 2/86	6/ 2/86	6/ 2/86	6/ 3/86	6/ 3/86	6/ 3/86	6/ 3/86	6/ 3/86
LATITUDE START	51 43.3	51 39.9	51 35.0	51 24.5	51 16.6	51 13.7	51 14.9	51 14.9	51 57.4	52 2.6	52 4.5
LONGITUDE START	178 7.9E	178 14.5E	178 26.7E	178 39.2E	179 5.7E	179 9.8E	179 10.7E	179 14.7E	179 20.2E	179 20.4E	179 5.8E
LATITUDE END	51 43.0	51 39.5	51 32.9	51 23.9	51 15.4	51 13.7	51 14.9	51 15.2	51 59.0	52 3.6	52 6.3
LONGITUDE END	178 8.5E	178 17.5E	178 28.3E	178 41.2E	179 7.3E	179 12.3E	179 13.4E	179 17.1E	179 22.0E	179 23.5E	179 4.7E
LORAN START	12857.70	12892.80	12960.50	13019.00	13167.40	13187.00	13194.10	13219.50	13352.50	13367.90	13279.30
LORAN START	34630.80	34643.60	34665.30	34694.00	34734.90	34742.90	34742.60	34747.40	34701.00	34694.20	34673.00
LORAN END	12859.00	12911.40	12966.80	13030.00	13175.20	13202.00	13211.60	13234.40	13368.00	13390.50	13277.10
LORAN END	34635.60	34647.90	34670.00	34697.00	34738.10	34745.80	34745.80	34749.70	34701.00	34696.60	34669.10
GEAR DEPTH	68	93	82	323	137	219	93	98	98	153	301
DURATION IN HOURS	0.08	0.50	0.50	0.42	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.40	1.80	2.30	1.38	1.80	1.57	1.90	1.50	1.90	2.10	2.00
PERFORMANCE / GEAR	5 /712	0 /712	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	0.0	0.0	0.0	5981.2	0.0	9714.4	28647.0	35748.6	2866.0	0.0
PACIFIC COD	0.0	1023.0	6031.8	0.0	923.8	630.6	1045.0	663.6	5266.8	2204.6	0.0
PAC OCEAN PERCH	0.0	23.4	0.0	0.0	20897.6	0.0	0.0	0.0	0.8	835.6	0.0
NORTHERN RKFH	0.0	388.0	249.2	0.0	2001.8	0.0	0.0	6.6	1.4	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	774.3	11.0	509.2	0.0	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	103.6	99.2	5.7	180.8	2650.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	146.9	0.0	73.2	0.0	0.0	0.0	0.0	33.0
OTHER ROCKFISH	0.0	0.0	0.0	5.2	0.0	3.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	262.4	277.8	449.8	0.0	0.0	0.0	0.0	68.4
ATKA MACKEREL	0.0	3.0	8273.0	0.0	71.8	0.0	176.4	34.8	2.2	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	771.7	0.0	94.8	0.0	0.0	0.0	0.0	4005.8
SCULPINS	0.0	112.0	828.8	0.0	171.8	216.8	55.2	4.8	189.6	382.6	0.4
OTHER ROUNDFISH	0.0	100.6	0.0	29.3	16.0	1.2	11.0	0.0	0.8	0.0	72.8
TOTAL ROUNDFISH	0.0	1753.6	15482.0	1995.5	30533.6	4628.6	11002.0	29356.8	41210.2	6288.8	4180.4
ARROWTOOTH FL	0.0	0.0	0.0	1312.4	176.4	721.0	0.0	0.0	0.0	359.4	68.4
GREENLAND TURBOT	0.0	0.0	0.0	482.9	0.0	555.6	0.0	23.8	0.0	125.6	249.2
FLATHEAD SOLE	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	569.2	441.0	0.0	143.4	0.0	209.4	275.6	253.6	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	21.6	0.0	0.0	0.0	0.0	249.2	0.0
DOVER SOLE	0.0	0.0	0.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	8.4
PAC HALIBUT	0.0	62.6	106.2	0.0	116.0	198.0	101.4	54.6	590.8	102.2	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	0.0	573.6	547.2	1810.0	457.4	1474.6	310.8	354.0	844.4	836.4	326.0
SKATES	0.0	0.0	5.2	10.5	575.4	209.4	154.4	121.2	34.8	193.6	18.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	178.6	0.0	6.6	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	5.2	10.5	575.4	388.0	154.4	127.8	34.8	193.6	18.0
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	24.0	0.0	45.8	0.0	0.0	23.8	97.0	20.8
SQUID	0.0	0.0	0.0	21.0	482.8	269.0	0.0	0.0	0.0	59.6	86.6
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
TOTAL INVERTS	0.0	0.0	0.0	45.0	482.8	314.8	0.0	0.0	23.8	156.6	108.8
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	0.0	2327.2	16034.4	3861.0	32049.2	6806.0	11467.2	29838.6	42113.2	7475.4	4633.2

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	6/ 3/86	6/ 4/86	6/ 4/86	6/ 4/86	6/ 4/86	6/ 5/86	6/ 5/86	6/ 5/86	6/ 5/86	6/ 6/86	6/ 6/86
LATITUDE START	52 10.6	52 12.6	52 13.1	52 9.4	52 5.4	52 13.4	52 15.5	52 19.5	52 15.1	52 25.5	52 29.7
LONGITUDE START	179 4.1E	179 26.4E	179 36.9E	179 46.1E	179 39.3E	179 59.0E	179 54.5E	179 27.1E	179 15.7E	179 56.7E	179 54.8E
LATITUDE END	52 11.0	52 14.5	52 15.1	52 9.3	52 7.3	52 11.8	52 15.5	52 20.7	52 13.2	52 26.6	52 30.0
LONGITUDE END	179 7.1E	179 28.5E	179 38.4E	179 43.0E	179 41.1E	179 59.3E	179 58.1E	179 29.7E	179 13.6E	179 54.1E	179 58.0E
LORAN START	13284.60	13436.30	13505.20	13553.40	13497.40	13648.50	13626.40	13462.00	13374.60	13673.80	13675.90
LORAN START	34663.10	34687.50	34700.30	34716.80	34713.80	34727.70	34718.20	34678.60	34670.40	34707.90	34699.20
LORAN END	13306.20	13455.30	13521.30	13533.00	13514.70	13645.60	13649.50	13483.00	13354.90	13660.80	13697.30
LORAN END	34665.40	34687.60	34699.40	34713.20	34713.50	34730.10	34723.50	34680.30	34670.60	34703.00	34702.90
GEAR DEPTH	350	191	82	41	44	38	44	301	328	98	153
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.90	2.20	2.10	2.00	2.10	1.50	2.50	1.90	2.20	1.80	1.90
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	0.0	0.0	0.0	0.0	0.0	2857.2	0.0	0.0	0.0	116.4
PACIFIC COD	0.0	0.0	143.4	15.4	8.4	19.4	32.2	0.0	0.0	198.4	167.6
PAC OCEAN PERCH	0.0	50.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1951.0
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	46.2	41.0	0.0	0.0	0.0	0.0	0.0	5.2	158.8	0.0	0.0
ROUGHEYE RKFH	207.2	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
SHORTSPINE TH	0.0	2.6	0.0	0.0	0.0	0.0	0.0	242.6	324.0	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	209.4	0.0	0.0	0.0	0.0	0.0	0.0	90.4	233.6	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	77.2	19.8	0.0	78.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	8906.8	0.0	0.0	0.0	0.0	0.0	0.0	1153.0	6278.8	0.0	0.0
SCULPINS	0.0	1.6	7.4	149.6	134.0	59.8	744.2	0.0	0.0	6.0	23.0
OTHER ROUNDFISH	308.8	16.4	0.0	1.6	0.8	15.2	3.8	72.6	379.2	0.4	7.8
TOTAL ROUNDFISH	9678.4	123.8	150.8	243.8	163.0	94.4	3715.4	1563.8	7374.4	204.8	2271.6
ARROWTOOTH FL	172.0	222.6	0.0	0.0	0.0	0.0	0.0	103.6	0.0	2.2	337.4
GREENLAND TURBOT	370.4	198.4	0.0	0.0	0.0	0.0	0.0	165.4	121.2	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	172.0	68.4	180.8	17.6	240.4	346.2	0.0	0.0	68.4	24.2
REX SOLE	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
DOVER SOLE	8.8	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0
PAC HALIBUT	0.0	2770.4	529.2	113.4	411.8	0.0	0.8	0.0	0.0	82.0	545.4
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	551.2	3372.2	597.6	294.2	429.4	240.4	347.0	282.6	121.2	152.6	922.0
SKATES	21.6	164.4	0.0	2.6	0.0	0.0	0.0	49.0	10.2	6.2	43.2
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	165.4	0.0	0.0	0.0
TOTAL ELASMOBRH	21.6	164.4	0.0	2.6	0.0	0.0	0.0	214.4	10.2	6.2	43.2
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
RED KING CRAB	0.0	0.0	0.0	0.0	641.6	0.0	736.4	0.0	0.0	7.4	0.0
GOLDEN KING CRAB	8.4	22.0	0.0	3.6	0.0	0.0	0.0	2.2	0.0	37.4	24.6
SQUID	63.2	604.0	0.0	0.0	0.0	0.0	0.0	26.0	42.2	0.4	30.4
OTHER INVERTS	0.0	0.4	0.0	7.2	3.0	1.2	4.6	0.0	0.0	2.6	0.8
TOTAL INVERTS	71.6	626.4	0.0	10.8	644.6	1.2	741.0	28.2	42.2	47.8	56.2
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	10322.8	4286.8	748.4	551.4	1237.0	336.0	4803.4	2089.0	7548.0	411.4	3293.0

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	6/ 6/86	6/ 6/86	6/ 6/86	6/ 7/86	6/ 7/86	6/ 7/86	6/ 7/86	6/ 7/86	6/ 7/86	6/ 8/86	6/ 8/86
LATITUDE START	52 25.4	52 21.0	52 22.2	52 16.0	52 15.1	52 2.1	52 4.3	52 8.3	52 22.5	52 26.3	52 33.6
LONGITUDE START	179 42.0E	179 52.6E	179 51.1	179 46.9	179 35.0	179 50.1	179 57.4	179 46.6	179 36.0	179 38.9	179 57.2
LATITUDE END	52 26.9	52 19.4	52 21.8	52 13.9	52 15.0	52 2.4	52 5.4	52 9.6	52 24.3	52 27.4	52 32.5
LONGITUDE END	179 44.8E	179 49.7E	179 48.2	179 46.6	179 35.2	179 47.2	179 54.6	179 44.6	179 35.4	179 36.3	179 54.3
LORAN START	13578.40	13632.20	13740.60	13746.70	13819.90	13682.70	13642.80	13723.90	13838.70	13833.90	13740.60
LORAN START	34689.10	34709.10	34727.90	34741.80	34757.80	34755.90	34744.20	34752.10	34746.60	34737.90	34703.80
LORAN END	13601.00	13608.30	13758.10	13742.00	13818.90	13701.90	13664.00	13740.70	13849.20	13854.40	13755.80
LORAN END	34690.40	34707.60	34732.30	34744.80	34757.70	34759.00	34746.20	34753.10	34744.90	34739.60	34709.40
GEAR DEPTH	137	71	126	98	301	180	90	126	328	180	306
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.17	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.10	2.30	1.90	2.00	0.11	1.90	2.20	1.80	1.60	1.90	2.30
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	5 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	1213.4	0.0	209.0	1.8	0.0	194.0	0.0	868.6	0.0	77.2	0.0
PACIFIC COD	995.2	229.2	201.6	154.4	0.0	41.8	43.6	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	47098.4	0.0	2023.8	0.0	0.0	110.2	0.0	5560.6	0.0	725.4	0.0
NORTHERN RKFH	0.0	0.0	34.8	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	427.6	66.2	112.4
ROUGHEYE RKFH	349.2	0.0	41.8	0.0	0.0	425.4	0.0	0.0	0.0	242.6	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	88.2	0.0	0.0	676.8	114.6	350.6
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	588.6	531.4	965.6
ATKA MACKEREL	0.0	0.0	39.2	0.0	0.0	0.0	2.6	19.8	0.0	2.2	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3095.4	0.0	4920.8
SCULPINS	58.8	37.4	72.2	13.6	0.0	108.4	17.4	12.4	39.6	115.0	2.2
OTHER ROUNDFISH	2.6	0.4	11.8	0.4	0.0	40.6	0.0	0.8	614.2	2.2	213.0
TOTAL ROUNDFISH	49717.6	267.0	2637.8	170.2	0.0	1021.0	63.6	6462.2	5442.2	1876.8	6564.6
ARROWTOOTH FL	393.8	0.0	237.2	9.2	0.0	55.2	0.0	2.2	992.0	626.2	557.8
GREENLAND TURBOT	0.0	0.0	165.4	0.0	0.0	77.2	0.0	0.0	1300.8	112.4	738.6
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	1309.6	130.0	18.0	258.0	0.0	0.0	55.2	110.2	0.0	33.0	0.0
REX SOLE	33.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	72.8	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	425.4	0.0	20.2
PAC HALIBUT	253.0	111.2	281.8	283.6	0.0	680.8	284.0	104.0	0.0	1087.4	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	1989.4	241.2	702.4	550.8	0.0	835.6	339.2	216.4	2718.2	1931.8	1316.6
SKATES	235.8	0.0	44.0	0.0	0.0	117.0	0.0	197.6	56.4	2245.2	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	485.0
TOTAL ELASMOBRH	235.8	0.0	44.0	0.0	0.0	117.0	0.0	197.6	56.4	2245.2	485.0
TANNER CRAB	1.4	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	112.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	12.4	0.0	53.0	8.0	0.0	35.2	0.0	0.0	0.0	4.8	0.0
SQUID	0.0	0.0	18.0	0.0	0.0	8688.4	0.0	0.0	6.6	31.2	20.8
OTHER INVERTS	0.0	67.4	8.0	10.6	0.0	0.0	0.0	23.4	0.4	0.0	5.8
TOTAL INVERTS	13.8	179.8	79.0	18.6	0.0	8723.6	0.0	23.4	7.0	36.0	26.6
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	51956.6	688.0	3463.2	739.6	0.0	10697.2	402.8	6899.6	8223.8	6089.8	8392.8

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	6/ 8/86	6/ 8/86	6/ 9/86	6/ 9/86	6/ 9/86	6/ 9/86	6/10/86	6/10/86	6/15/86	6/15/86	6/15/86
LATITUDE START	52 20.3	52 14.6	52 21.9	52 31.4	52 43.7	52 40.4	52 35.4	52 40.6	51 39.9	51 39.7	51 38.3
LONGITUDE START	179 38.3	179 38.0	179 41.2	179 31.4	179 20.0	179 25.4	179 34.9	179 21.1	178 57.8	178 33.8	178 29.3
LATITUDE END	52 18.6	52 16.7	52 24.0	52 30.4	52 41.9	52 38.9	52 36.1	52 39.1	51 40.5	51 39.0	51 37.2
LONGITUDE END	179 39.6	179 38.2	179 40.0	179 33.7	179 21.1	179 26.9	179 35.8	179 22.5	179 0.7	178 30.1	178 25.8
LORAN START	13816.80	13795.10	13803.70	13899.80	14019.20	13971.40	13892.00	14000.50	13941.50	14086.40	14110.00
LORAN START	34746.70	34754.70	34740.90	34740.30	34737.20	34735.20	34730.10	34740.60	34842.90	34870.20	34876.10
LORAN END	13801.90	13805.20	13818.20	13881.20	14005.30	13956.10	13888.50	13985.30	13925.10	14107.40	14127.70
LORAN END	34747.40	34751.60	34739.40	34738.60	34738.80	34735.40	34728.60	34740.80	34839.00	34874.40	34881.00
GEAR DEPTH	250	208	131	71	66	71	71	82	323	142	82
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.33	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.90	2.00	2.20	1.80	2.00	1.90	1.00	1.70	1.60	2.40	2.50
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	5.2	4.0	3523.0	624.0	762.8	776.0	517.9	1942.2	3.1	186070.8	0.0
PACIFIC COD	0.0	0.0	50.8	399.0	31707.8	23688.4	500.9	1172.8	0.0	3637.6	23357.6
PAC OCEAN PERCH	0.0	0.0	4043.2	187.4	0.0	2063.0	1089.1	0.0	0.0	0.0	0.0
NORTHERN RKFH	0.0	0.0	0.0	1536.6	22920.2	15806.8	10560.3	0.0	0.0	5.7	0.0
SHORTRAKER RKFH	127.8	899.4	0.0	0.0	0.0	0.0	0.0	0.0	7.9	8.8	0.0
ROUGHEYE RKFH	0.0	967.8	0.0	19.8	0.0	11.4	38.2	0.0	7.1	5.7	0.0
SHORTSPINE TH	244.8	1018.6	0.0	0.0	0.0	0.0	0.0	0.0	70.5	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	445.4	90.4	0.0	0.0	0.0	0.0	0.0	0.0	1179.5	0.0	0.0
ATKA MACKEREL	0.0	0.0	15.0	1470.4	14399.8	7705.2	8544.5	2605.8	0.0	0.0	0.0
GIANT GRENADIER	853.2	180.8	0.0	0.0	0.0	0.0	0.0	0.0	15387.4	0.0	0.0
SCULPINS	0.0	28.2	115.0	111.2	2.2	6.0	5.5	36.2	0.0	287.0	491.6
OTHER ROUNDFISH	303.8	63.4	7.6	30.4	226.6	3924.8	13.9	16.4	118.6	0.4	1.3
TOTAL ROUNDFISH	1980.2	3252.6	7754.6	4378.8	70019.4	53981.6	21270.3	5773.4	16774.2	190016.2	23850.6
ARROWTOOTH FL	579.8	694.4	64.0	0.0	0.0	0.0	0.0	29.6	987.7	332.9	28.7
GREENLAND TURBOT	1084.6	586.4	0.0	0.0	0.0	0.0	0.0	0.0	687.8	50.7	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
ROCK SOLE	0.0	0.0	0.0	50.8	0.0	20.2	10.6	432.2	0.0	317.5	72.8
REX SOLE	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0
PAC HALIBUT	0.0	283.0	265.8	0.0	0.0	262.0	0.0	78.4	120.8	213.4	41.4
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	1664.4	1573.0	329.8	50.8	0.0	282.2	10.6	540.2	1805.2	916.7	142.9
SKATES	0.0	116.8	257.0	187.4	0.0	49.4	0.0	782.6	26.0	16.3	37.5
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0
TOTAL ELASMOBRH	0.0	116.8	257.0	187.4	0.0	49.4	0.0	782.6	26.0	19.0	37.5
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	17.6	41.8	24.6	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0
SQUID	19.0	238.2	33.0	0.8	0.0	0.0	0.0	1.4	0.0	63.9	6.6
OTHER INVERTS	4.4	0.0	14.6	16.2	0.0	1.8	0.6	7.0	0.0	0.0	0.0
TOTAL INVERTS	41.0	280.0	72.2	17.0	0.0	1.8	0.6	20.4	0.0	63.9	6.6
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	3685.6	5222.4	8413.6	4634.0	70019.4	54315.0	21281.5	7116.6	18605.3	191015.8	24037.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	6/16/86	6/16/86	6/16/86	6/16/86	6/17/86	6/17/86	6/17/86	6/17/86	6/17/86	6/17/86	6/18/86
LATITUDE START	51 40.5	51 41.0	51 38.2	51 38.0	51 37.8	51 38.2	51 56.8	52 1.1	52 1.0	52 0.6	52 10.3
LONGITUDE START	178 16.4	178 32.7	178 29.1	178 29.1	178 19.5	178 10.8	176 17.7	176 24.9	176 24.6	176 24.7	175 38.2
LATITUDE END	51 38.3	51 41.7	51 37.3	51 37.9	51 36.4	51 39.3	51 58.2	52 1.8	52 1.2	52 1.4	52 8.6
LONGITUDE END	178 14.6	178 29.9	178 28.5	178 28.0	178 17.9	178 12.0	176 19.2	176 21.9	176 22.2	176 21.7	175 38.4
LORAN START	14195.00	14098.00	14110.30	14112.50	14167.20	14221.20	14955.10	14931.00	14932.20	14930.40	15236.20
LORAN START	34888.20	34869.80	34876.20	34876.80	34887.00	34896.00	34995.00	34985.50	34985.70	34986.00	35022.40
LORAN END	14198.90	14117.50	14111.40	14117.10	14172.60	14217.40	14952.30	14951.00	14946.70	14950.90	15229.10
LORAN END	34892.10	34872.30	34877.80	34877.00	34890.00	34893.70	34992.80	34987.90	34987.80	34988.40	35023.50
GEAR DEPTH	93	328	93	90	208	38	93	71	66	66	180
DURATION IN HOURS	0.50	0.50	0.17	0.17	0.42	0.50	0.50	0.50	0.33	0.50	0.50
DISTANCE FISHED	2.40	2.00	0.80	0.80	1.80	1.50	1.70	1.90	1.10	2.00	1.80
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	0.0	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	375.3	0.0	3042.4	6.6	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	233.7
PACIFIC COD	2255.3	0.0			91.9	1816.6	363.8	6977.7			372.6
PAC OCEAN PERCH	0.0	0.0			3.1	0.0	0.9	46.3			13007.3
NORTHERN RKFH	0.0	0.0			1.6	0.0	0.0	16.3			0.0
SHORTRAKER RKFH	0.0	112.4			107.6	0.0	0.0	0.0			1781.3
ROUGHEYE RKFH	0.0	0.0			569.5	0.0	0.0	0.0			425.5
SHORTSPINE TH	0.0	81.6			0.0	0.0	0.0	0.0			0.0
OTHER ROCKFISH	0.0	0.0			0.0	0.0	0.0	19.0			0.0
SABLEFISH	0.0	2707.3			1238.8	0.0	0.0	0.0			121.3
ATKA MACKEREL	6.2	0.0			7.3	0.0	0.0	0.0			0.0
GIANT GRENADIER	0.0	76280.2			0.0	0.0	0.0	0.0			0.0
SCULPINS	55.1	0.0			294.5	215.2	80.2	563.9			46.7
OTHER ROUNDFISH	1.3	217.4			4.2	30.4	24.7	8.8			0.4
TOTAL ROUNDFISH	2318.0	79398.9			2693.8	2062.2	3512.0	7638.6			15988.9
ARROWTOOTH FL	0.0	6950.4			1246.7	0.0	470.5	10.6			1056.0
GREENLAND TURBOT	0.0	2729.3			577.4	0.0	0.0	0.0			0.0
FLATHEAD SOLE	0.0	0.0			0.0	0.0	82.9	1.3			271.2
ROCK SOLE	161.4	0.0			0.0	43.2	1245.6	425.1			271.2
REX SOLE	0.0	0.0			0.0	0.0	28.7	0.0			194.0
DOVER SOLE	0.0	33.1			0.0	0.0	1.3	0.0			2.2
PAC HALIBUT	157.4	132.3			189.5	0.0	60.8	664.5			624.4
OTHER FLATFISH	0.0	0.0			0.0	0.0	0.0	0.0			0.0
TOTAL FLATFISH	318.8	9885.1			2013.6	43.2	1889.8	1101.4			2418.9
SKATES	0.0	194.0			139.1	41.9	37.5	8.4			0.0
OTHER ELASMOBRH	0.0	1102.3			0.0	0.0	0.0	0.0			0.0
TOTAL ELASMOBRH	0.0	1296.3			139.1	41.9	37.5	8.4			0.0
TANNER CRAB	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
GOLDEN KING CRAB	0.0	0.0			17.3	0.0	0.0	0.0			28.7
SQUID	0.0	0.0			36.7	0.0	1.8	0.4			50.3
OTHER INVERTS	0.0	0.0			2.1	0.0	0.0	38.4			0.0
TOTAL INVERTS	0.0	0.0			56.2	0.0	1.8	38.8			78.9
OTHER	0.0	0.0			0.0	0.0	0.0	0.0			0.0
TOTAL CATCH	2636.7	90580.3			4902.7	2147.3	5441.0	8787.2			18486.7

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	6/18/86	6/19/86	6/19/86	6/19/86	6/20/86	6/20/86	6/21/86	6/21/86	6/21/86	6/22/86	6/22/86
LATITUDE START	52 9.6	52 9.7	52 4.0	52 8.1	52 16.3	52 16.6	52 18.2	52 12.4	52 22.1	52 12.2	52 26.8
LONGITUDE START	175 44.8	175 24.1	175 30.8	175 19.6	174 50.7	174 48.3	174 47.8	174 59.0	174 34.8	173 56.2	173 47.9
LATITUDE END	52 9.5	52 9.4	52 6.4	52 7.9	52 17.7	52 17.9	52 19.7	52 13.1	52 23.3	52 13.4	52 26.7
LONGITUDE END	175 42.7	175 21.5	175 31.4	175 15.8	174 48.8	174 45.8	174 45.9	174 55.5	174 31.8	173 53.4	173 44.8
LORAN START	15195.80	15305.10	15251.30	15330.90	15526.60	15541.50	15551.50	15464.00	15639.70	15797.20	15910.40
LORAN START	35016.90	35034.40	35032.40	35039.50	35058.60	35060.20	35059.80	35053.90	35067.70	35096.90	35097.20
LORAN END	15206.90	15326.60	15257.40	15351.10	15543.20	15560.80	15568.80	15486.30	15661.80	15817.90	15926.00
LORAN END	35018.80	35037.20	35030.60	35042.80	35059.20	35061.40	35060.70	35056.30	35069.50	35098.10	35099.10
GEAR DEPTH	142	53	33	98	301	98	306	98	71	93	148
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.80	1.70	2.20	2.40	1.90	2.00	2.00	2.20	2.30	2.00	1.80
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	246.9	0.0	0.0	220.5	0.0	115963.6	0.0	0.0	0.4	2484.6	2330.3
PACIFIC COD	180.8	4385.0	0.0	1752.7	0.0	6230.3	0.0	1750.5	1523.8	216.1	1201.5
PAC OCEAN PERCH	5341.4	0.0	0.0	720.9	0.0	650.4	0.0	0.0	13.7	0.0	21131.0
NORTHERN RKFH	1.8	0.0	0.0	7.9	0.0	0.0	0.0	0.0	1047.2	0.0	0.0
SHORTRAKER RKFH	374.8	0.0	0.0	0.0	55.1	0.0	165.3	0.0	0.0	0.0	44.1
ROUGHEYE RKFH	579.8	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	46.3
SHORTSPINE TH	20.3	0.0	0.0	0.0	749.6	0.0	401.2	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	4.4	1.3	10.1	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	1490.3	0.0	712.1	0.0	0.0	7.5	59.5
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	341.7	0.0	291.0	0.0	0.0	0.0	0.0
SCULPINS	8.4	496.9	7.9	455.0	14.1	72.8	3.5	173.3	158.3	9.7	9.3
OTHER ROUNDFISH	13.2	0.4	0.0	0.4	280.9	0.4	118.6	9.7	5.3	1.3	2.2
TOTAL ROUNDFISH	6767.3	4882.4	7.9	3161.9	2933.0	122927.6	1697.1	1933.5	2755.3	2719.2	24824.2
ARROWTOOTH FL	222.7	67.5	0.0	114.6	385.8	370.4	233.7	1276.5	337.3	884.5	414.5
GREENLAND TURBOT	0.0	0.0	0.0	0.0	3611.2	0.0	2799.9	0.0	0.0	0.0	143.3
FLATHEAD SOLE	45.4	1.8	0.0	0.0	42.3	108.0	0.0	5.7	4.9	1522.5	82.0
ROCK SOLE	262.4	576.7	48.5	2184.3	0.0	795.9	0.0	458.6	141.1	0.0	38.8
REX SOLE	34.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	2.2
DOVER SOLE	0.0	0.0	0.0	0.0	17.2	0.0	15.9	0.0	0.0	0.0	0.0
PAC HALIBUT	147.3	593.0	42.8	389.3	0.0	1107.6	0.0	168.4	219.1	60.4	59.1
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	712.1	1240.3	91.3	2688.3	4056.5	2381.9	3049.4	1909.2	702.4	2481.5	739.9
SKATES	9.3	48.9	0.0	68.3	55.1	0.0	0.0	0.0	24.3	11.0	3.1
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	881.9	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	9.3	48.9	0.0	68.3	55.1	0.0	881.9	0.0	24.3	11.0	3.1
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	4.9	4.9
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	22.9	18.5	0.0
GOLDEN KING CRAB	9.3	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	0.0	81.6
SQUID	67.9	3.1	0.0	0.0	76.7	1.3	62.2	0.0	0.0	0.0	63.1
OTHER INVERTS	3.1	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	6.6	0.9
TOTAL INVERTS	80.2	3.1	0.0	0.0	76.7	1.3	72.3	58.6	29.5	30.0	150.4
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	7568.9	6174.7	99.2	5918.5	7121.4	125310.8	5700.7	3901.3	3511.5	5241.7	25717.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	6/23/86	6/23/86	6/23/86	6/24/86	6/24/86	6/25/86	6/25/86	6/25/86	6/25/86	6/26/86	6/26/86
LATITUDE START	52 29.3	52 36.9	52 33.0	52 19.8	52 17.9	52 20.6	52 19.9	52 16.9	52 17.6	52 21.1	52 18.1
LONGITUDE START	173 31.7	173 21.6	173 17.8	173 40.0	173 32.5	173 22.9	173 14.0	173 4.8	173 12.9	173 43.1	173 39.8
LATITUDE END	52 28.9	52 37.5	52 32.1	52 18.9	52 18.6	52 20.7	52 19.0	52 17.2	52 18.2	52 19.7	52 17.6
LONGITUDE END	173 34.3	173 18.2	173 20.2	173 37.2	173 29.3	173 19.6	173 11.4	173 7.8	173 16.6	173 42.8	173 36.7
LORAN START	16005.20	16094.80	16094.00	15916.76	15946.10	16007.40	16048.10	16078.60	16042.20	15907.60	15910.00
LORAN START	35105.60	35109.20	35112.00	35103.80	35108.10	35112.30	35116.50	35120.90	35117.30	35101.80	35104.30
LORAN END	15989.90	16115.30	16078.30	15926.90	15965.20	16024.20	16056.60	16065.40	16026.90	15902.20	15923.10
LORAN END	35104.30	35110.80	35111.00	35105.50	35109.60	35113.90	35117.80	35119.60	35115.70	35102.30	35106.10
GEAR DEPTH	142	250	126	230	180	339	301	142	235	98	99
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.80	2.20	1.80	2.20	2.10	2.00	1.80	2.00	2.30	1.50	2.00
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	175.9	11.0	0.0	16.8	1126.6	0.0	17.6	2775.6	25.6	4706.0	2200.2
PACIFIC COD	1897.7	0.0	440.9	0.0	299.8	0.0	0.0	224.9	14.1	2496.1	1250.9
PAC OCEAN PERCH	57077.4	0.0	2041.5	0.0	8225.5	0.0	0.0	7083.9	0.0	37213.8	27199.0
NORTHERN RKFH	0.0	0.0	19.8	0.0	0.0	0.0	0.0	2.2	0.0	43.2	0.0
SHORTRAKER RKFH	0.0	185.2	24.3	491.6	114.6	0.0	0.0	6.2	63.9	0.0	0.0
ROUGHEYE RKFH	6935.8	0.0	119.1	110.2	75.4	0.0	0.0	33.5	94.8	434.3	26.5
SHORTSPINE TH	0.0	105.8	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	172.8	564.4	0.0	222.7	103.6	1201.5	776.0	12.3	207.2	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	33.1	0.0	0.0	0.0	4717.9	99.2	0.0	0.0	0.0	0.0
SCULPINS	62.6	3.5	22.9	4.0	108.5	0.0	0.0	133.2	40.1	155.6	838.2
OTHER ROUNDFISH	315.3	4.4	144.2	16.3	13.2	79.4	19.8	12.8	15.0	704.6	64.4
TOTAL ROUNDFISH	66637.6	907.4	2817.5	861.6	10067.2	6068.5	912.7	10284.6	460.8	45753.6	31579.2
ARROWTOOTH FL	265.0	840.0	165.3	622.6	277.8	68.3	125.7	549.0	185.2	710.3	1744.3
GREENLAND TURBOT	0.0	6924.7	0.0	4740.0	63.9	4043.3	2696.3	8.8	2061.3	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	39.7	0.0	2.6	19.0	0.0	140.2	175.0
ROCK SOLE	17.2	0.0	0.0	0.0	163.1	0.0	0.0	209.4	0.0	394.6	559.1
REX SOLE	0.0	0.0	0.0	147.7	99.2	0.0	0.0	293.2	59.5	39.7	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	26.9	85.1	67.9	0.0	0.0	0.0	429.9	148.6
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	282.2	7764.7	165.3	5537.2	728.9	4179.5	2824.6	1079.4	2306.0	1714.8	2627.0
SKATES	0.0	6.6	50.7	0.0	0.0	70.1	0.0	33.5	3.1	24.3	1096.6
OTHER ELASMOBRH	0.0	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	35.7	50.7	0.0	0.0	70.1	0.0	33.5	3.1	24.3	1096.6
TANNER CRAB	0.0	0.0	0.0	0.0	3.1	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	4.0	1.8	6.6	13.7	7.9	13.7	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	10.6	4.4	80.2	92.2	78.9	4.4	131.0	723.1	25.1	11.0
OTHER INVERTS	0.0	0.0	1.8	0.0	0.0	0.0	0.0	4.4	1.3	0.0	0.9
TOTAL INVERTS	4.0	12.3	12.8	93.9	103.2	92.6	4.4	135.4	724.4	25.1	11.9
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	66923.7	8720.2	3046.4	6492.6	10899.3	10410.7	3741.7	11532.9	3494.3	47517.8	35314.7

HAUL #	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	6/27/86	6/27/86	6/27/86	6/27/86	6/28/86	6/28/86	6/28/86	6/29/86	6/29/86	6/30/86	6/30/86
LATITUDE START	52 17.6	52 10.6	52 10.8	52 16.9	52 13.5	52 13.8	52 13.4	52 12.5	52 20.1	52 21.1	52 24.8
LONGITUDE START	173 31.6	173 2.6	173 17.3	173 20.8	172 50.2	172 51.0	172 46.0	172 42.7	172 43.2	172 47.9	172 39.4
LATITUDE END	52 17.5	52 10.5	52 10.7	52 16.7	52 13.3	52 13.4	52 12.1	52 12.4	52 21.6	52 22.8	52 26.2
LONGITUDE END	173 28.3	173 6.1	173 13.2	173 17.4	172 47.4	172 48.5	172 45.3	172 40.1	172 41.8	172 46.1	172 37.5
LORAN START	15948.50	16058.50	15987.90	15999.80	16132.80	16130.50	16151.50	16163.00	16198.20	16181.60	16240.70
LORAN START	35108.70	35122.70	35116.80	35114.10	49452.00	49454.40	49442.40	49433.00	49454.40	49467.50	49458.70
LORAN END	15965.00	16041.30	16006.90	16015.60	16144.90	16139.80	16149.20	16175.30	16213.00	16198.50	16256.30
LORAN END	35110.40	35121.40	35118.50	35115.60	49445.60	49448.00	49437.30	49426.70	49455.50	49468.40	49458.50
GEAR DEPTH	101	46	44	87	87	87	93	87	82	301	137
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.33	0.33	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.00	2.10	2.10	2.00	1.80	1.30	1.20	2.00	1.90	2.00	2.00
PERFORMANCE / GEAR	0 /712	1 /712	5 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	1508.0	0.0	0.0	2835.2	17482.7			34534.2	2094.4	20.7	21405.6
PACIFIC COD	639.3	374.8	0.0	665.8	2791.9			6643.0	6386.8	0.0	534.4
PAC OCEAN PERCH	8178.7	0.0	0.0	4964.8	0.0			154.3	354.9	0.0	13412.1
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0			205.5	4162.3	0.0	0.0
SHORTRAKER RKFH	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	152.1	0.0	26.0
SHORTSPINE TH	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
SABLEFISH	0.0	0.0	0.0	0.0	0.0			0.0	15.0	3254.0	2233.7
ATKA MACKEREL	0.0	1.8	0.0	0.0	60226.0			20942.6	7041.6	50.3	82.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0
SCULPINS	56.0	127.9	0.0	303.8	7826.4			867.7	1094.8	8.8	1120.8
OTHER ROUNDFISH	3.1	4.0	0.0	2.2	0.0			0.0	428.1	12.8	1.3
TOTAL ROUNDFISH	10385.1	508.4	0.0	8771.8	88327.1			63347.3	21730.2	3346.6	38816.0
ARROWTOOTH FL	751.8	0.0	0.0	901.7	0.0			0.0	0.9	341.7	1171.5
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0			0.0	0.0	692.3	0.0
FLATHEAD SOLE	6.6	0.0	0.0	5.3	0.0			0.0	0.0	0.0	0.0
ROCK SOLE	573.2	7.9	0.0	410.1	682.6			88.2	575.4	0.0	321.9
REX SOLE	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
PAC HALIBUT	793.7	0.0	0.0	363.3	63.5			0.0	705.5	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0
TOTAL FLATFISH	2125.3	7.9	0.0	1680.4	746.0			88.2	1281.8	1034.0	1493.4
SKATES	99.2	0.0	0.0	8.4	0.0			0.0	0.0	37.0	1761.1
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	99.2	0.0	0.0	8.4	0.0			0.0	0.0	37.0	1761.1
TANNER CRAB	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
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0			0.0	0.0	7.1	4.9
SQUID	0.4	0.0	0.0	0.0	0.0			2.2	0.0	1064.0	7.9
OTHER INVERTS	0.0	0.0	0.0	0.9	0.0			0.0	1.3	0.0	0.0
TOTAL INVERTS	0.4	0.0	0.0	0.9	0.0			2.2	1.3	1071.0	12.8
OTHER	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0
TOTAL CATCH	12610.0	516.3	0.0	10461.4	89073.1			63437.7	23013.2	5488.7	42083.3

NO CATCH RECORDED TAGGING STATION

NO CATCH RECORDED TAGGING STATION

HAUL #	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	6/30/86	7/ 1/86	7/ 1/86	7/ 1/86	7/ 2/86	7/ 2/86	7/ 2/86	7/ 3/86	7/ 3/86	7/ 4/86	7/ 4/86
LATITUDE START	52 28.4	52 29.8	52 37.5	52 39.0	52 38.6	52 18.5	52 16.9	52 15.2	52 13.7	52 14.0	52 12.4
LONGITUDE START	172 35.4	172 30.2	172 55.6	172 27.6	172 23.3	172 49.4	172 55.2	172 51.4	172 50.1	172 45.7	172 47.3
LATITUDE END	52 28.4	52 28.6	52 37.8	52 38.1	52 38.1	52 18.4	52 17.6	52 15.3	52 14.2	52 14.3	52 12.9
LONGITUDE END	172 35.8	172 26.0	172 52.2	172 32.3	172 26.4	172 52.7	172 52.3	172 55.2	172 48.9	172 46.0	172 45.7
LORAN START	16278.10	16309.70	16227.30	16369.70	16387.70	16160.80	16125.50	16133.20	16131.80	16156.20	16139.20
LORAN START	49459.70	49452.00	49528.70	49471.90	49460.70	49463.60	49472.00	49458.80	49451.90	49443.50	49442.40
LORAN END	16275.90	16322.60	16245.40	16342.80	16370.20	16144.70	16142.90	16117.60	16140.50	16156.20	16149.00
LORAN END	49460.70	49438.90	49522.40	49480.10	49466.70	49470.80	49467.40	49467.50	49450.50	49445.10	49440.00
GEAR DEPTH	142	148	312	301	235	230	120	82	87	87	82
DURATION IN HOURS	0.16	0.50	0.50	0.75	0.50	0.50	0.50	0.50	0.33	0.16	0.16
DISTANCE FISHED	0.70	2.10	2.20	3.00	2.00	2.10	2.00	2.20	1.10	0.90	0.80
PERFORMANCE / GEAR	6 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	14760.5	0.0	0.0	271.2	3653.1	7932.3	41486.8	NO CATCH RECORDED TAGGING STATION		
PACIFIC COD	0.0	242.5	0.0	0.0	12.8	0.0	298.9	5624.0			
PAC OCEAN PERCH	0.0	1029.6	0.0	0.0	0.0	0.0	75949.6	0.0			
NORTHERN RKFH	0.0	2.2	0.0	0.0	0.0	0.0	197.1	0.0			
SHORTRAKER RKFH	0.0	0.0	81.6	25.0	46.3	0.0	0.0	0.0			
ROUGHEYE RKFH	0.0	48.5	0.0	7.1	134.5	17.6	474.9	0.0			
SHORTSPINE TH	0.0	0.0	407.9	75.0	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	617.3	11885.2	546.7	3922.0	414.5	112.4	0.0			
ATKA MACKEREL	0.0	12.8	0.0	0.0	0.0	0.0	474.9	37725.6			
GIANT GRENADIER	0.0	0.0	8055.7	404.2	0.0	0.0	0.0	0.0			
SCULPINS	0.0	500.0	4.0	0.3	0.0	103.6	2039.7	751.8			
OTHER ROUNDFISH	0.0	3.1	123.0	33.5	12.3	1.8	0.0	0.0			
TOTAL ROUNDFISH	0.0	17156.4	20557.3	1091.7	4399.1	4190.6	87479.8	85588.2			
ARROWTOOTH FL	0.0	189.6	160.9	110.2	634.9	943.6	932.1	37.9			
GREENLAND TURBOT	0.0	0.0	868.6	2075.3	2105.4	90.4	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	162.7	0.0	0.0	0.0	0.0	298.9	119.5			
REX SOLE	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0			
DOVER SOLE	0.0	0.0	0.0	33.5	8.8	0.0	0.0	0.0			
PAC HALIBUT	0.0	0.0	0.0	0.0	63.1	36.6	24.3	118.6			
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL FLATFISH	0.0	352.3	1029.6	2219.0	2829.4	1070.6	1255.3	276.0			
SKATES	0.0	922.0	112.4	6.2	217.8	141.1	439.6	0.0			
OTHER ELASMOBRH	0.0	0.0	0.0	440.9	5.3	0.0	0.0	0.0			
TOTAL ELASMOBRH	0.0	922.0	112.4	447.1	223.1	141.1	439.6	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	5.7	1.8	0.0	0.0	0.0	0.0	0.0			
SQUID	0.0	11.5	11.9	16.8	13.2	1726.2	0.0	0.0			
OTHER INVERTS	0.0	0.0	0.4	0.0	0.0	2.2	0.0	0.0			
TOTAL INVERTS	0.0	17.2	14.1	16.8	13.2	1728.4	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	18447.9	21713.4	3774.6	7464.9	7130.7	89174.7	85864.2			

NO CATCH RECORDED TAGGING STATION

NO CATCH RECORDED TAGGING STATION

NO CATCH RECORDED TAGGING STATION

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	155	156	157	158	159	160	161	162	163	164	165
MONTH/DAY/YEAR	7/ 4/86	7/ 4/86	7/ 5/86	7/ 5/86	7/ 5/86	7/ 6/86	7/ 6/86	7/ 6/86	7/ 6/86	7/ 7/86	7/ 7/86
LATITUDE START	52 39.8	52 39.2	52 37.0	52 51.4	52 47.5	52 47.1	52 55.7	52 54.0	53 1.7	53 6.1	53 12.0
LONGITUDE START	172 14.5	172 3.8	171 43.7	171 40.2	171 44.3	170 53.4	170 36.5	170 30.4	170 20.5	170 1.2	169 45.8
LATITUDE END	52 38.4	52 39.6	52 36.2	52 50.5	52 48.2	52 49.0	52 54.9	52 55.8	53 0.4	53 5.8	53 13.8
LONGITUDE END	172 12.5	172 6.5	171 45.5	171 41.9	171 42.1	170 50.7	170 39.2	170 29.6	170 23.3	170 4.6	169 45.1
LORAN START	16433.00	16478.70	16556.80	16649.50	16610.40	16823.40	16937.40	16951.80	17032.50	17128.10	17215.90
LORAN START	49443.10	49415.90	49359.50	49392.70	49391.40	49251.10	49226.80	49203.00	49195.10	49146.10	49111.60
LORAN END	16434.20	16468.90	16544.60	16637.30	16624.30	16844.80	16922.70	16964.60	17014.50	17113.90	17228.20
LORAN END	49434.40	49423.60	49361.90	49394.20	49388.20	49249.10	49232.60	49205.90	49200.00	49156.00	49114.80
GEAR DEPTH	230	137	355	437	246	366	426	219	142	82	82
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.90	1.80	1.30	1.50	1.60	2.50	1.90	1.90	2.10	2.00	1.90
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	8799.1	0.0	0.0	14.6	13.7	3.5	2539.3	202.8	0.0	7.9
PACIFIC COD	0.0	1402.1	0.0	0.0	0.0	0.0	0.0	0.0	1036.2	246.9	388.0
PAC OCEAN PERCH	4.4	1794.6	0.0	0.0	0.0	0.0	0.0	0.0	4176.9	0.0	5.7
NORTHERN RKFH	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2744.8
SHORTRAKER RKFH	1208.1	5.7	0.0	0.0	449.7	37.5	0.0	187.0	0.0	0.0	0.0
ROUGHEYE RKFH	685.6	716.1	0.0	0.0	7.5	0.0	0.0	1076.3	0.0	0.0	564.4
SHORTSPINE TH	280.0	0.0	0.0	121.3	55.1	15.9	24.3	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	29.5
SABLEFISH	4834.8	262.4	670.2	412.3	1818.8	447.5	659.2	9117.5	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	7.9	0.0
GIANT GRENADIER	15772.4	0.0	6299.1	1567.5	209.4	11514.3	16891.9	0.0	0.0	0.0	0.0
SCULPINS	99.2	324.1	0.0	0.0	52.5	9.3	1.8	0.0	402.1	109.3	37.5
OTHER ROUNDFISH	3.1	469.6	13.7	645.5	94.8	16.3	2052.5	101.9	0.0	1.3	51.1
TOTAL ROUNDFISH	22887.6	13778.9	6982.9	2746.5	2702.4	12054.5	19633.1	13021.9	5818.0	365.5	3829.0
ARROWTOOTH FL	1492.5	257.9	125.7	165.3	1803.4	12.3	15.9	71214.0	1086.9	0.0	119.1
GREENLAND TURBOT	582.0	0.0	372.6	185.6	4561.4	1657.9	513.7	6563.2	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	7.9	0.0	0.0	0.0	0.0	0.0	0.0	10.1	83.8	7.1
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	11.5	0.0	55.1	48.5	0.0	4.9	26.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	265.0	553.4	0.0	0.0	0.0	0.0	0.0	71.4	693.6	98.8
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	2086.0	530.9	1106.7	399.5	6364.8	1675.1	555.6	77777.2	1168.5	777.4	224.9
SKATES	194.0	291.0	319.2	103.6	95.7	138.5	33.5	234.1	112.4	229.3	0.0
OTHER ELASMOBRH	0.0	0.0	165.3	0.0	343.9	440.9	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	194.0	291.0	484.6	103.6	439.6	579.4	33.5	234.1	112.4	229.3	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	20.3	4.9	15.9	8.4	12.3	0.4	2.6	0.0	21.6	15.0	34.0
SQUID	17.6	6.6	0.0	0.0	36.6	77.6	8.8	340.4	11.0	0.0	0.0
OTHER INVERTS	0.4	0.4	0.0	6.2	2.2	0.0	0.0	0.0	0.4	0.0	0.0
TOTAL INVERTS	38.4	11.9	15.9	14.6	51.1	78.0	11.5	340.4	33.1	15.0	34.0
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	25206.0	14612.7	8590.1	3264.2	9558.0	14387.0	20233.7	91373.6	7132.0	1387.2	4087.8

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	166	167	168	169	170	171	172	173	174	175	176
MONTH/DAY/YEAR	7/ 7/86	7/ 8/86	7/ 8/86	7/ 8/86	7/ 9/86	7/ 9/86	7/ 9/86	7/10/86	7/22/86	7/22/86	7/22/86
LATITUDE START	53 5.0	52 55.8	52 58.0	52 57.5	53 13.8	54 19.8	54 21.9	54 24.4	54 24.4	54 32.4	54 17.6
LONGITUDE START	169 33.1	169 30.7	169 22.3	169 18.9	169 7.9	166 2.2	166 10.8	165 50.2	165 12.0	165 8.4	165 1.4
LATITUDE END	53 5.9	52 58.1	52 59.4	52 55.8	53 13.9	54 21.2	54 22.3	54 26.3	54 26.2	54 29.9	54 16.0
LONGITUDE END	169 35.9	169 31.4	169 20.4	169 22.2	169 11.6	166 0.0	166 7.4	165 48.1	165 11.6	165 7.6	165 2.9
LORAN START	17219.40	17177.00	17216.70	17225.10	17350.90	18114.20	18112.60	18151.50	18158.70	18236.30	18181.60
LORAN START	49046.00	49010.50	48986.50	48972.60	48980.00	48291.80	48343.10	48234.80	48020.40	48011.90	47949.70
LORAN END	17214.90	17187.30	17230.70	17205.10	17339.80	18124.00	18119.10	18162.80	18206.60	18226.90	18173.20
LORAN END	49058.60	49019.20	48983.50	48979.70	48994.30	48282.70	48325.30	48226.50	48020.90	48003.90	47955.90
GEAR DEPTH	71	131	339	219	334	328	366	230	93	41	38
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.90	2.30	1.70	2.50	2.10	1.90	2.00	2.20	1.90	2.40	1.80
PERFORMANCE / GEAR	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	56.9	6889.0	10.6	224.9	20.3	19.4	4.0	756.2	363.8	493.8	0.0
PACIFIC COD	220.5	846.6	0.0	88.2	0.0	0.0	0.0	21.2	551.2	238.1	145.5
PAC OCEAN PERCH	590.8	14195.6	0.0	2.6	0.0	0.0	0.0	2.6	34.8	14.1	0.0
NORTHERN RKFH	1316.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH	33.1	0.0	112.4	138.9	36.2	0.0	0.0	319.7	0.0	0.0	0.0
ROUGHEYE RKFH	65.7	59.5	33.5	615.1	34.4	0.0	0.0	37.5	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	24.3	0.0	28.2	103.6	136.7	116.8	0.0	0.0	0.0
OTHER ROCKFISH	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0
SABLEFISH	0.0	0.0	1362.5	7173.4	1768.1	2791.1	683.4	2001.8	0.0	0.0	0.0
ATKA MACKEREL	8.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	119.1	604.1	0.0	0.0	0.0	0.0
SCULPINS	12.3	77.2	13.2	41.0	0.9	1.3	1.3	23.4	405.7	90.4	8308.8
OTHER ROUNDFISH	39.2	24.7	0.0	0.4	0.0	621.7	140.7	10.1	1.8	73.6	4.0
TOTAL ROUNDFISH	2348.4	22057.9	1556.5	8284.6	1888.0	3656.2	1570.1	3289.3	1357.2	918.9	8458.3
ARROWTOOTH FL	3.1	238.1	6109.0	6020.8	168.4	94.8	6.2	112.4	1091.3	147.7	0.0
GREENLAND TURBOT	0.0	0.0	1882.8	9016.1	2118.6	1122.2	2530.9	5736.4	0.0	0.0	0.0
FLATHEAD SOLE	0.0	4.4	0.0	0.0	0.0	0.0	0.0	328.5	138.9	37.5	0.0
ROCK SOLE	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	86.0	57.3	10.1
REX SOLE	0.0	31.7	0.0	12.3	30.0	0.0	0.0	141.1	6.6	13.2	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	332.5	165.3	0.0	38.8	0.0	0.0	0.0	0.0	58.6	351.9	302.9
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	335.5	460.8	7991.8	15068.0	2317.1	1217.0	2537.1	6318.5	1381.4	607.6	313.1
SKATES	55.1	41.9	255.7	43.2	24.3	34.8	0.0	2.2	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	1423.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	55.1	41.9	255.7	1466.5	24.3	34.8	0.0	2.2	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	45.4	19.0	48.5	11.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	0.0	4.9	22.5	302.0	81.6	34.4	45.9	369.1	0.0	0.0	0.0
OTHER INVERTS	0.4	0.0	0.9	0.0	2.6	0.0	8.8	24.3	0.0	0.0	0.4
TOTAL INVERTS	45.9	23.8	71.9	313.9	93.5	34.4	54.7	393.3	0.0	0.0	0.4
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	2784.9	22624.4	9875.9	25153.1	4322.8	4942.3	4161.9	10003.3	2738.6	1526.5	8771.9

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	177	178	179	180	181	182	183	184	185	186	187
MONTH/DAY/YEAR	7/22/86	7/23/86	7/23/86	7/23/86	7/23/86	7/24/86	7/24/86	7/24/86	7/24/86	7/25/86	7/25/86
LATITUDE START	54 13.9	54 21.9	54 22.5	54 12.6	54 6.3	54 6.0	53 39.0	53 45.2	53 38.0	53 32.4	53 31.2
LONGITUDE START	165 12.1	165 37.9	165 48.5	166 10.8	166 24.6	166 14.0	167 20.0	167 21.4	167 35.2	167 31.2	168 29.2
LATITUDE END	54 12.2	54 23.4	54 23.6	54 11.2	54 8.2	54 5.1	53 41.3	53 47.3	53 39.6	53 34.6	53 29.1
LONGITUDE END	165 10.5	165 34.9	165 44.6	166 13.6	166 21.6	166 18.1	167 19.9	167 20.7	167 34.1	167 31.0	168 29.0
LORAN START	18153.50	18157.50	18146.90	18069.70	18018.30	18033.50	17775.60	17804.80	17736.00	17715.70	17563.50
LORAN START	48004.90	48162.10	48222.40	48324.50	48384.10	48328.10	48594.00	48616.40	48661.90	48629.00	48878.40
LORAN END	18147.60	18168.10	18157.10	18059.00	18032.40	18022.70	17787.80	17817.60	17747.10	17727.50	17552.30
LORAN END	47995.00	48148.20	48202.80	48336.50	48372.30	48347.10	48599.30	48618.60	48660.80	48633.90	48872.00
GEAR DEPTH	49	44	87	71	60	38	44	137	66	38	77
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.70	2.30	2.50	2.00	2.62	2.50	2.30	2.30	1.80	2.00	2.10
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	10.6	15.4	46994.8	172.0	10615.3	19.8	8.4	6740.4	15170.1	0.0	2956.4
PACIFIC COD	3130.6	1179.5	63.9	304.2	3346.6	599.7	81.1	531.3	1153.0	1320.6	1146.4
PAC OCEAN PERCH	1.8	1.3	506.2	12.8	0.0	0.0	0.0	34580.6	32775.0	0.0	6313.6
NORTHERN RKFH	0.0	13.2	41.9	1.8	33.5	0.0	0.0	0.0	15793.1	4.4	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	227.1	158.7	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.5	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	10.6	6.6	0.0	0.0	0.0	0.0	7684.9	0.0	0.0
SABLEFISH	0.0	0.0	2105.4	45.4	0.0	0.0	0.0	88.2	0.0	0.0	0.0
ATKA MACKEREL	2.2	1494.7	12.3	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	937.0	605.8	61.7	352.7	748.3	1310.0	46.7	206.8	438.3	343.0	100.5
OTHER ROUNDFISH	45.9	27.3	44.5	447.5	3739.1	315.3	691.4	194.0	407.4	88.2	1.3
TOTAL ROUNDFISH	4128.0	3337.4	49841.4	1343.1	18482.7	2244.8	827.6	42669.8	73580.5	1756.2	10518.3
ARROWTOOTH FL	0.0	0.0	683.4	1366.9	1219.2	0.0	7.5	1160.1	1127.4	68.3	610.7
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.3	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	321.9	158.7	63.9	0.0	22.9	172.0	269.0	79.4	7.1
ROCK SOLE	165.3	160.9	26.9	324.1	1501.4	24.3	471.8	22.9	671.5	758.4	33.1
REX SOLE	0.0	0.0	3.1	19.8	4.9	0.0	0.9	522.5	858.5	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
PAC HALIBUT	220.9	828.9	55.6	303.8	295.4	1095.3	220.5	73.6	0.0	567.5	1716.1
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	386.3	989.9	1090.9	2173.3	3084.7	1119.5	723.6	2073.7	2926.4	1473.6	2366.9
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.2	320.6	8.4	147.7
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.2	320.6	8.4	147.7
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	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	116.4	0.0	0.0	0.0	0.0	244.7	0.0	0.0	224.9
OTHER INVERTS	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TOTAL INVERTS	0.0	0.0	116.4	0.4	0.0	0.0	0.0	244.7	0.0	0.0	225.3
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	4514.2	4327.2	51048.7	3516.8	21567.5	3364.3	1551.2	45065.4	76827.5	3238.2	13258.2

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	188	189	190	191	192	193	194	195	196	197	198
MONTH/DAY/YEAR	7/25/86	7/25/86	7/25/86	7/26/86	7/26/86	7/26/86	7/27/86	7/27/86	7/28/86	7/28/86	7/28/86
LATITUDE START	53 26.0	53 24.9	53 4.6	53 4.5	53 6.9	52 57.1	52 27.8	52 39.8	52 32.1	52 18.1	52 15.7
LONGITUDE START	168 35.9	168 32.4	168 59.1	169 55.3	169 54.9	169 54.0	170 27.2	170 15.5	170 37.8	170 42.6	171 12.2
LATITUDE END	53 27.7	53 26.5	53 6.2	53 2.7	53 6.9	52 59.3	52 27.2	52 38.3	52 30.9	52 20.0	52 16.9
LONGITUDE END	168 34.4	168 30.3	168 56.3	169 56.6	169 58.0	169 54.0	170 30.8	170 14.9	170 40.9	170 43.7	171 9.9
LORAN START	17515.80	17519.70	17329.10	17144.30	17156.50	17105.60	16824.30	16932.50	16806.60	16713.90	16581.90
LORAN START	48891.30	48873.40	48920.20	49123.90	49127.30	49095.10	49116.60	49114.00	49161.20	49136.10	49214.60
LORAN END	17529.60	17534.70	17346.50	17129.70	17146.10	17117.50	16807.70	16926.60	16787.70	16719.40	16597.90
LORAN END	48888.80	48865.50	48914.00	49123.00	49137.90	49101.40	49125.80	49107.80	49167.20	49144.50	49211.40
GEAR DEPTH	82	41	38	82	115	66	219	131	82	82	448
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.10	2.10	2.20	2.00	1.80	2.10	2.30	1.80	2.20	2.00	2.00
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	24.3	0.0	0.0	0.0	19.8	0.0	24.3	10901.9	0.0	0.0	0.0
PACIFIC COD	2769.0	390.2	66.1	59.5	3115.1	2.6	0.0	762.8	63.9	692.3	0.0
PAC OCEAN PERCH	26.5	0.0	0.0	0.0	1.8	0.0	0.0	668.0	0.0	2845.3	0.0
NORTHERN RKFH	0.0	0.0	0.4	0.4	3.1	0.0	0.0	1.8	0.0	4716.6	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	99.2	6.6	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	207.2	293.2	0.0	0.9	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	68.3	28.7	0.0	0.0	2.2
OTHER ROCKFISH	0.0	0.0	0.0	0.0	5.3	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	657.0	0.0	0.0	0.0	271.2
ATKA MACKEREL	0.0	0.0	0.9	6.6	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	606.3	0.0	0.0	0.0	6658.0
SCULPINS	158.3	6.2	33.1	298.9	335.1	0.0	0.0	104.5	242.1	187.8	0.0
OTHER ROUNDFISH	0.4	7.9	0.0	3.5	1.3	0.0	19.8	0.9	4.4	38.8	134.0
TOTAL ROUNDFISH	2978.5	404.3	100.5	369.1	3481.5	2.6	1682.1	12768.3	310.4	8481.7	7065.4
ARROWTOOTH FL	1673.3	163.1	0.0	0.0	489.4	0.0	224.9	50.7	0.0	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	0.0	0.0	0.0	575.4	24.3	0.0	0.0	33.1
FLATHEAD SOLE	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	152.1	81.6	6.2	59.5	352.7	0.0	0.0	0.0	20.7	1.3	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	309.1	44.1	60.0	359.8	356.7	0.0	17.6	142.9	2141.6	734.6	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	2134.5	291.5	66.1	419.3	1198.9	0.0	817.9	217.8	2162.3	735.9	33.1
SKATES	0.0	46.3	0.0	0.0	0.0	0.0	253.5	202.8	55.1	86.0	68.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.3
TOTAL ELASMOBRH	0.0	46.3	0.0	0.0	0.0	0.0	253.5	202.8	55.1	86.0	189.6
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	0.0	0.0	0.0	6.6	5.7	0.0	28.7	0.0	0.0	19.8	0.0
SQUID	0.4	0.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0	0.0	0.0
OTHER INVERTS	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
TOTAL INVERTS	1.3	0.0	0.0	6.6	5.7	0.0	42.3	0.0	0.0	19.8	0.4
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	5114.3	742.1	166.7	795.0	4686.2	2.6	2795.9	13189.0	2527.8	9323.4	7288.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	199	200	201	202	203	204	205	206	207	208	209
MONTH/DAY/YEAR	7/28/86	7/28/86	7/29/86	7/29/86	7/29/86	7/29/86	7/30/86	7/30/86	7/30/86	7/30/86	7/31/86
LATITUDE START	52 25.9	52 5.1	52 6.4	51 56.5	51 58.6	52 2.3	51 58.2	51 54.1	51 54.1	51 54.0	51 50.6
LONGITUDE START	171 7.7	171 48.3	171 59.3	172 52.7	172 36.4	172 14.8	172 19.9	173 20.9	173 33.2	173 45.7	173 53.4
LATITUDE END	52 24.1	52 6.4	52 5.8	51 55.6	51 58.2	52 4.2	52 0.0	51 54.6	51 53.9	51 53.1	51 50.4
LONGITUDE END	171 9.1	171 47.8	171 56.2	172 57.4	172 39.9	172 15.9	172 17.9	173 18.0	173 37.7	173 49.3	173 57.3
LORAN START	16653.30	16374.50	16329.80	16038.10	16124.90	16242.70	16200.00	15891.50	15830.10	15766.60	15712.80
LORAN START	49230.70	49282.00	49317.50	35127.70	35131.90	35135.80	35135.30	35118.20	35113.00	35107.20	35104.10
LORAN END	16638.00	16383.40	16340.70	16011.30	16107.20	16246.70	16218.00	15907.40	15806.30	15744.30	15691.80
LORAN END	49229.30	49284.50	49308.30	35126.50	35131.10	35135.60	35135.40	35119.30	35111.00	35105.50	35102.20
GEAR DEPTH	202	153	137	82	87	82	137	93	66	82	137
DURATION IN HOURS	0.50	0.33	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.00	1.40	2.10	3.00	2.10	1.90	2.20	2.00	2.80	2.50	2.30
PERFORMANCE / GEAR	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	934.8	6264.5	1931.3	15384.8	12811.1	0.0	9024.0	43697.0	11058.4	0.0	782.6
PACIFIC COD	194.0	557.8	167.6	6666.8	892.9	1011.9	223.1	3066.6	2138.5	1428.6	723.1
PAC OCEAN PERCH	194.0	1456.4	1695.4	28.7	88.2	2.2	8351.6	5228.9	97.0	6.2	1951.1
NORTHERN RKFH	0.0	4.7	1.8	61.7	15.4	0.0	6.6	320.6	14.1	555.6	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	33.5	0.0	0.0	0.0	205.0
ROUGHEYE RKFH	59.5	130.3	37.5	0.0	0.0	0.0	5.3	43.7	0.0	0.0	945.8
SHORTSPINE TH	0.0	123.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.5
OTHER ROCKFISH	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	7.1	78.0	4.0
SABLEFISH	972.2	818.4	50.7	0.0	0.0	0.0	35686.4	277.8	0.0	0.0	848.8
ATKA MACKEREL	0.0	0.0	3.5	0.9	2.2	249.1	0.0	0.0	6.6	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	6.2	357.4	48.5	190.0	402.1	384.0	751.3	949.8	263.7	224.9	537.0
OTHER ROUNDFISH	4.0	0.0	33.1	0.0	0.4	0.0	90.8	34.4	23.4	9.7	75.4
TOTAL ROUNDFISH	2364.7	9713.1	3969.2	22335.5	14212.4	1647.3	54172.7	53618.7	13608.7	2303.0	6218.4
ARROWTOOTH FL	851.0	347.4	172.0	0.0	0.0	0.0	4113.8	80.2	116.8	5.7	7.9
GREENLAND TURBOT	165.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
FLATHEAD SOLE	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	23.4	370.4	10.1	438.7	681.2	636.3	80.2	174.2	134.5	50.7
REX SOLE	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7
PAC HALIBUT	565.7	183.1	436.5	896.8	858.0	1078.9	107.6	394.2	843.5	452.4	81.6
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	1582.0	553.8	989.4	907.0	1296.8	1760.2	4857.7	554.7	1134.5	593.9	206.4
SKATES	1386.7	86.8	145.1	0.0	346.1	86.0	57.8	217.4	55.1	77.2	14.1
OTHER ELASMOBRH	81.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	1468.3	86.8	145.1	0.0	346.1	86.0	57.8	217.4	55.1	77.2	14.1
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	16.8	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	17.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1
OTHER INVERTS	0.0	0.0	0.0	0.0	0.4	0.0	0.0	5.3	0.0	0.0	0.0
TOTAL INVERTS	34.4	26.7	0.0	0.0	0.4	0.0	0.0	5.3	0.0	0.0	10.1
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	5449.4	10380.5	5103.7	23242.5	15855.7	3493.5	59088.1	54396.1	14798.4	2974.0	6449.0

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	210	211	212	213	214	215	216	217	218	219	220
MONTH/DAY/YEAR	7/31/86	7/31/86	7/31/86	7/31/86	8/ 1/86	8/ 1/86	8/ 1/86	8/ 1/86	8/ 1/86	8/ 1/86	8/ 2/86
LATITUDE START	51 50.1	51 49.2	52 0.8	51 58.6	51 48.5	51 49.0	51 44.2	51 44.9	51 50.7	51 50.9	51 58.2
LONGITUDE START	173 52.3	173 53.9	174 5.1	174 19.7	174 28.6	174 46.8	174 59.4	175 16.3	175 4.3	174 42.2	172 24.5
LATITUDE END	51 49.7	51 49.4	51 59.5	51 57.6	51 48.5	51 48.9	51 44.0	51 45.6	51 51.0	51 50.6	51 58.2
LONGITUDE END	173 56.5	173 51.1	174 3.6	174 22.9	174 26.5	174 50.6	175 2.8	175 13.4	175 0.5	174 38.8	172 29.2
LORAN START	15715.50	15704.00	15699.10	15612.80	15522.00	15427.30	15339.80	15251.40	15340.90	15460.10	16178.80
LORAN START	35104.80	35104.20	35095.10	35087.00	35084.80	35072.80	35066.00	35053.50	35059.80	35075.10	35134.40
LORAN END	15692.70	15718.80	15700.40	15591.50	15535.50	15406.70	15320.80	15270.00	15362.70	15477.10	16157.40
LORAN END	35102.70	35105.50	35096.20	35085.20	35086.00	35070.30	35063.70	35055.40	35062.40	35077.60	35133.50
GEAR DEPTH	219	328	49	57	219	137	312	219	87	98	120
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.41	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.50	1.70	1.60	2.20	1.30	2.20	2.00	1.90	2.40	2.20	2.80
PERFORMANCE / GEAR	0 /712	0 /712	1 /712	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	86.0	9.3	0.4	0.0	35.0	180.8	4.9	2.6	1274.3	1660.1	469.6
PACIFIC COD	213.9	0.0	220.5	672.4	172.1	272.9	0.0	0.0	1258.8	1120.0	163.1
PAC OCEAN PERCH	15.0	0.0	0.0	0.0	6.5	1384.5	0.0	0.0	0.0	0.0	4016.8
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	1.3	3.1
SHORTRAKER RKFH	1091.3	0.0	0.0	0.0	381.8	0.0	24.3	2224.5	0.0	0.0	0.0
ROUGHEYE RKFH	2129.7	0.0	0.0	0.0	3565.0	6.6	0.0	410.1	0.0	0.0	6.6
SHORTSPINE TH	264.6	119.1	0.0	0.0	67.2	59.5	77.2	66.1	0.9	0.0	0.0
OTHER ROCKFISH	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	2896.9	784.8	0.0	0.0	1115.8	216.1	776.0	831.1	0.0	22.0	112.4
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	2859.8	25137.2	0.0	0.0	0.0	0.0	2462.6	0.0	0.0	0.0	0.0
SCULPINS	154.3	16.3	2.6	316.1	102.2	35.3	0.0	0.0	22.0	143.3	525.1
OTHER ROUNDFISH	21.2	474.9	0.0	2.6	0.5	0.4	363.8	3.1	0.9	0.0	9.3
TOTAL ROUNDFISH	9745.3	26541.5	223.6	951.2	5446.0	2163.2	3708.6	3537.6	2556.9	2946.7	5306.1
ARROWTOOTH FL	198.4	6.6	6.6	88.2	260.8	509.3	55.1	81.6	41.0	286.6	196.2
GREENLAND TURBOT	19.8	52.9	0.0	0.0	29.6	0.0	0.0	72.8	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	99.2	280.0	0.0	485.0	0.0	0.0	278.2	227.1	25.1
REX SOLE	0.0	0.0	0.0	0.4	1.6	202.8	0.0	72.8	9.3	8.8	2.2
DOVER SOLE	4.0	0.0	0.0	0.0	0.0	0.0	28.7	0.0	0.0	0.0	0.0
PAC HALIBUT	25.6	0.0	181.2	536.2	0.0	330.7	0.0	120.8	145.1	226.6	75.8
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	247.8	59.5	287.0	904.8	292.0	1527.8	83.8	347.9	473.6	749.1	299.4
SKATES	46.3	0.0	0.0	24.3	0.0	220.5	11.5	8.8	0.0	28.7	62.2
OTHER ELASMOBRH	59.5	41.9	0.0	0.0	0.0	0.0	0.0	222.7	0.0	0.0	0.0
TOTAL ELASMOBRH	105.8	41.9	0.0	24.3	0.0	220.5	11.5	231.5	0.0	28.7	62.2
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	26.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SQUID	121.3	7.1	0.0	0.0	29.6	22.0	10.1	63.9	17.6	0.0	0.0
OTHER INVERTS	4.0	0.0	0.0	0.4	67.8	0.0	0.0	0.0	0.0	1.3	0.0
TOTAL INVERTS	152.1	7.1	0.0	0.4	97.3	22.0	10.1	63.9	17.6	1.3	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	10251.1	26650.0	510.6	1920.7	5835.3	3933.5	3814.0	4180.9	3048.1	3725.8	5667.7

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	221	222	223	224	225	226	227	228	229	230	231
MONTH/DAY/YEAR	8/ 3/86	8/ 3/86	8/ 4/86	8/ 4/86	8/ 4/86	8/ 5/86	8/ 5/86	8/ 5/86	8/ 5/86	8/ 5/86	8/ 6/86
LATITUDE START	52 57.6	52 48.4	52 48.6	52 36.2	52 33.8	52 22.1	52 15.5	52 28.8	52 33.8	52 36.0	52 27.5
LONGITUDE START	170 29.6	171 22.6	171 39.1	171 26.8	171 45.1	171 48.1	171 55.8	172 20.0	172 23.0	172 21.5	172 46.6
LATITUDE END	52 59.1	52 50.3	52 47.1	52 35.8	52 33.6	52 24.0	52 16.6	52 30.6	52 34.9	52 35.5	52 25.7
LONGITUDE END	170 29.0	171 20.4	171 41.7	171 29.1	171 48.9	171 45.3	171 57.1	172 21.9	172 25.8	172 24.9	172 47.4
LORAN START	16977.30	16711.40	16641.50	16627.80	16535.80	16461.30	16393.80	16351.70	16363.80	16382.60	16219.60
LORAN START	49211.80	49337.90	49382.00	49313.40	49354.40	49328.70	49329.80	49425.60	49446.60	49449.40	49482.10
LORAN END	16987.50	16731.20	16621.60	16615.50	16517.60	16483.80	16393.30	16352.50	16356.40	16364.00	16206.60
LORAN END	49214.80	49337.60	49384.30	49318.20	49363.60	49326.90	49336.20	49435.10	49456.30	49456.00	49479.10
GEAR DEPTH	219	77	137	219	328	137	202	82	120	137	465
DURATION IN HOURS	0.50	0.50	0.50	0.33	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.50	2.20	2.20	1.50	2.20	2.50	1.30	2.00	2.20	2.10	1.70
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	130.1	0.4	1783.5	52.8	46.3	23079.8	1192.7	0.0	10181.0	174.2	7.1
PACIFIC COD	0.0	33.1	776.0	0.0	0.0	994.3	25.6	10789.5	769.4	945.8	0.0
PAC OCEAN PERCH	41.9	3.5	3558.3	263.9	0.0	5768.2	0.0	6.6	5377.1	868.6	0.0
NORTHERN RKFH	0.0	19.0	0.0	0.0	0.0	3.5	0.0	110.2	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	22.9	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	467.4	0.0	103.6	7.3	0.0	72.3	81.6	0.0	7.5	33.1	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	50.7
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	1556.5	0.0	637.1	354.7	1605.0	23224.0	1554.3	0.0	147.7	50.7	1104.5
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	2405.3	0.0	132.3	0.0	0.0	0.0	96.6
SCULPINS	11.5	23.4	327.6	6.7	0.0	283.5	2.6	43.7	121.3	418.9	0.0
OTHER ROUNDFISH	26.9	0.9	1.3	6.0	17.6	28.7	20.7	0.0	12.3	1.3	16.8
TOTAL ROUNDFISH	2234.2	80.2	7187.5	691.5	4074.2	53454.3	3040.6	10951.3	16616.3	2492.6	1275.6
ARROWTOOTH FL	32562.4	0.0	756.2	888.5	1186.1	1273.8	1488.1	0.0	540.1	260.1	0.0
GREENLAND TURBOT	6753.2	0.0	295.4	163.7	844.4	37.5	211.6	0.0	262.4	50.7	2017.2
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	7.3	0.0	6.6	0.0	520.3	213.9	59.5	0.0
REX SOLE	2.6	0.0	0.0	0.0	2.6	0.0	8.8	0.0	90.4	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	218.3	17.6	0.0	35.3	0.0	0.0	196.2	86.4	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	39318.3	218.3	1069.2	1059.6	2078.1	1317.9	1708.6	716.5	1198.9	370.4	2017.2
SKATES	264.6	0.9	94.8	408.2	152.1	78.0	765.9	100.1	337.3	123.5	147.7
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	264.6	0.9	94.8	408.2	152.1	78.0	765.9	100.1	337.3	123.5	147.7
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	8.8	0.0	20.3	0.0	0.0	7.5	0.0	0.0	16.8	0.0	0.0
SQUID	299.8	0.0	131.0	4.7	5.7	2.6	26.9	0.0	9.3	0.0	85.1
OTHER INVERTS	0.0	1.3	3.5	0.0	0.0	0.0	0.0	0.0	1.3	0.0	8.4
TOTAL INVERTS	308.6	1.3	154.8	4.7	5.7	10.1	26.9	0.0	27.3	0.0	93.5
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	42125.6	300.7	8506.4	2163.9	6310.1	54860.4	5542.0	11767.9	18179.8	2986.4	3534.0

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	232	233	234	235	236	237	238	239	240	241	242
MONTH/DAY/YEAR	8/ 6/86	8/ 6/86	8/ 7/86	8/ 7/86	8/ 8/86	8/ 8/86	8/ 8/86	8/ 9/86	8/ 9/86	8/ 9/86	8/ 9/86
LATITUDE START	52 15.6	52 15.2	52 19.3	52 18.8	52 22.9	52 17.6	52 14.7	52 10.0	52 9.9	52 30.4	52 28.6
LONGITUDE START	173 13.9	173 23.3	173 41.3	173 40.8	174 27.8	174 46.1	174 45.8	175 4.8	175 14.1	172 20.0	172 19.9
LATITUDE END	52 16.0	52 15.1	52 18.5	52 18.0	52 25.0	52 16.2	52 13.2	52 8.5	52 10.0	52 28.6	52 29.5
LONGITUDE END	173 17.3	173 24.9	173 38.4	173 38.0	174 25.5	174 48.4	174 48.7	175 7.5	175 10.8	172 18.9	172 20.4
LORAN START	16027.80	15978.80	15907.80	15907.80	15681.20	15557.50	15546.20	15421.10	15369.10	16360.10	16351.60
LORAN START	49507.50	49525.60	49571.90	49569.20	49662.50	49679.10	49671.90	49690.20	49703.90	49430.00	49425.00
LORAN END	16012.40	15970.80	15919.10	15918.70	15703.80	15538.90	15524.00	15400.00	15388.10	16356.10	16353.60
LORAN END	49515.80	49528.70	49563.80	49561.80	49663.70	49679.50	49672.80	49690.90	49699.10	49422.40	49428.70
GEAR DEPTH	71	63	200	159	68	123	63	74	126	87	82
DURATION IN HOURS	0.50	0.25	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.42	0.25
DISTANCE FISHED	2.00	1.00	1.90	2.00	2.60	2.00	2.20	2.20	2.00	1.91	1.00
PERFORMANCE / GEAR	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	1580.7	3633.2	147.7	83.8	1267.7	1406.6	119.1	590.8	154.3	NO CATCH RECORDED TAGGING STATION	
PACIFIC COD	888.5	92.6	238.1	233.7	727.5	1364.7	255.7	1252.2	257.9		
PAC OCEAN PERCH	6.2	2.6	69.2	79.4	19.0	68.3	3.1	3.1	85.1		
NORTHERN RKFH	42.8	1.8	0.0	0.9	10.6	1.3	0.0	4.0	3.5		
SHORTRAKER RKFH	0.0	0.0	681.2	0.0	0.0	22.0	0.0	0.0	24.3		
ROUGHEYE RKFH	0.0	0.0	8.4	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		
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0		
SABLEFISH	0.0	0.0	465.2	379.2	0.0	0.0	0.0	0.0	7.1		
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
GIANT GRENADIER	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0		
SCULPINS	112.0	18.5	4.4	7.1	89.1	140.7	127.9	177.7	19.4		
OTHER ROUNDFISH	60.8	0.0	12.8	29.1	0.0	6.6	1.3	2.2	10.6		
TOTAL ROUNDFISH	2691.0	3748.8	1630.1	813.1	2113.8	3010.2	507.1	2036.2	562.2		
ARROWTOOTH FL	297.6	101.4	116.8	136.7	15.4	90.4	156.5	119.1	302.0		
GREENLAND TURBOT	0.0	0.0	1327.2	396.8	0.0	324.1	0.0	0.0	77.2		
FLATHEAD SOLE	2.6	9.7	6.2	0.0	0.0	0.0	48.5	46.3	15.0		
ROCK SOLE	59.5	202.8	4.9	41.9	28.7	37.5	862.0	1142.0	654.8		
REX SOLE	0.0	0.0	94.8	55.1	0.0	0.0	0.0	1.3	14.6		
DOVER SOLE	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0		
PAC HALIBUT	642.9	38.8	702.4	127.0	456.4	25.1	88.6	444.9	735.5		
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL FLATFISH	1002.7	352.7	2253.6	757.5	500.5	477.1	1155.7	1753.6	1799.0		
SKATES	57.3	0.0	24.3	18.1	33.1	32.6	0.0	114.6	451.9		
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL ELASMOBRH	57.3	0.0	24.3	18.1	33.1	32.6	0.0	114.6	451.9		
TANNER CRAB	0.0	0.0	0.9	0.0	0.0	0.9	0.0	0.0	0.0		
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	0.0		
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4		
SQUID	2.2	3.5	460.8	1128.8	0.0	16.8	0.0	257.9	116.8		
OTHER INVERTS	9.3	0.0	0.0	0.4	0.0	0.4	0.4	0.0	0.0		
TOTAL INVERTS	11.5	3.5	461.6	1129.2	0.0	18.1	0.4	310.9	125.2		
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL CATCH	3762.4	4105.0	4369.6	2717.9	2647.3	3538.0	1663.2	4215.3	2938.3		

NO CATCH RECORDED TAGGING STATION

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	243	244	245	246	247	248	249	250	251	252	253
MONTH/DAY/YEAR	8/ 9/86	8/ 9/86	8/10/86	8/10/86	8/10/86	8/11/86	8/11/86	8/11/86	8/11/86	8/12/86	8/12/86
LATITUDE START	52 28.2	52 27.8	52 26.4	53 12.5	53 14.9	53 16.3	53 22.3	53 28.0	53 34.8	53 43.0	53 45.3
LONGITUDE START	172 18.9	172 20.2	172 20.1	169 42.8	169 14.6	168 48.7	168 42.8	167 36.2	167 24.4	167 26.5	167 15.0
LATITUDE END	52 26.5	52 26.0	52 26.9	53 11.8	53 13.3	53 17.0	53 22.7	53 27.3	53 37.0	53 43.1	53 47.7
LONGITUDE END	172 19.6	172 19.1	172 22.7	169 39.3	169 16.0	168 52.1	168 39.0	167 39.8	167 22.7	167 24.0	167 15.1
LORAN START	16354.00	16346.00	16334.50	17230.50	17337.30	17427.80	17475.80	17680.70	17743.90	17758.90	17818.80
LORAN START	49421.40	49423.30	49420.70	49103.10	49009.00	48915.80	48908.90	48640.20	48604.00	48634.60	48586.50
LORAN END	16341.50	16342.30	16329.00	17238.60	17324.00	17418.80	17489.10	17668.50	17758.90	17788.00	17831.10
LORAN END	49418.20	49415.20	49426.10	49088.80	49009.30	48929.30	48894.10	48654.00	48601.90	48623.30	48592.80
GEAR DEPTH	82	82	82	219	410	191	148	71	38	219	71
DURATION IN HOURS	0.33	0.50	0.25	0.50	0.50	0.50	0.50	0.50	0.50	0.42	0.50
DISTANCE FISHED	1.80	1.90	1.17	2.40	1.80	1.90	2.20	2.20	2.30	1.50	2.20
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	2.6	0.0	10.6	13982.2	0.9	22.5	1771.6	5420.3
PACIFIC COD				46.3	0.0	59.5	4382.8	59.5	526.9	18.4	910.5
PAC OCEAN PERCH				0.0	0.0	0.0	13176.6	0.0	0.0	383.2	15.4
NORTHERN RKFH				0.0	0.0	0.0	11.5	0.0	20.7	0.0	0.0
SHORTRAKER RKFH				5713.6	55.1	112.4	13.7	0.0	0.0	2703.3	0.0
ROUGHEYE RKFH				1148.6	0.0	94.8	20.7	0.0	0.0	2299.1	21.2
SHORTSPINE TH				379.2	28.7	88.2	11.9	0.0	0.0	204.7	1.3
OTHER ROCKFISH				0.0	0.0	0.0	16.3	0.0	0.0	0.0	0.0
SABLEFISH				1970.9	659.2	632.7	47.2	0.0	0.0	433.1	11.0
ATKA MACKEREL				0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
GIANT GRENADIER				0.0	42.3	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS				36.2	1.3	58.2	247.4	22.5	103.6	190.5	134.1
OTHER ROUNDFISH				0.0	62.2	35.7	30.4	0.0	29.5	1.6	0.0
TOTAL ROUNDFISH				13257.4	848.8	1092.2	31940.7	82.9	705.0	8005.4	6483.8
ARROWTOOTH FL				1347.0	255.7	299.8	430.8	617.3	79.4	217.8	1009.7
GREENLAND TURBOT				1913.6	1907.0	683.4	0.0	0.0	0.0	112.9	0.0
FLATHEAD SOLE				1.3	0.0	0.0	169.8	167.6	29.5	81.9	165.3
ROCK SOLE				0.0	0.0	0.0	16.3	579.8	485.0	131.2	134.5
REX SOLE				68.3	0.0	172.0	223.6	169.8	26.9	908.1	266.8
DOVER SOLE				13.2	9.3	0.0	0.0	0.0	0.0	34.1	0.0
PAC HALIBUT				41.0	0.0	0.0	19.4	73.6	1112.9	11.5	170.2
OTHER FLATFISH				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH				3384.5	2172.0	1155.2	859.8	1608.1	1733.7	1497.6	1746.5
SKATES				132.3	99.2	143.3	7.9	0.0	0.0	13.1	8.8
OTHER ELASMOBRH				108.0	108.0	63.9	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH				240.3	207.2	207.2	7.9	0.0	0.0	13.1	8.8
TANNER CRAB				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
RED KING CRAB				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB				4.4	0.0	2.6	15.0	0.0	0.0	0.0	0.0
SQUID				70.1	6.6	97.0	102.3	0.0	0.0	454.6	21.6
OTHER INVERTS				0.0	0.0	0.0	0.4	0.0	1.8	1.0	0.4
TOTAL INVERTS				74.5	6.6	99.6	117.7	0.0	1.8	455.6	22.5
OTHER				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH				16996.8	3234.6	2554.3	32926.1	1691.0	2440.5	9971.7	8261.6

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	254	255	256	257	258	259	260	261	262	263	264
MONTH/DAY/YEAR	8/12/86	8/12/86	8/12/86	8/13/86	8/13/86	8/14/86	8/17/86	8/17/86	8/17/86	8/18/86	8/18/86
LATITUDE START	53 47.7	54 21.9	54 22.2	54 23.0	54 26.9	54 23.0	51 22.9	51 28.0	51 15.5	51 11.1	51 21.3
LONGITUDE START	167 19.1	165 38.3	165 38.7	165 35.4	166 19.5	165 50.2	178 33.0	178 35.8	178 51.7	179 1.2	179 26.4
LATITUDE END	53 49.4	54 23.3	54 23.5	54 25.0	54 27.0	54 24.8	51 23.8	51 29.4	51 16.8	51 12.6	51 21.3
LONGITUDE END	167 16.9	165 35.7	165 36.8	165 33.9	166 23.2	165 47.5	178 36.3	178 38.4	178 49.8	178 59.3	179 23.7
LORAN START	17822.90	18156.50	18157.30	18165.00	18119.30	18150.00	14040.40	14039.00	13908.50	13840.10	13714.60
LORAN START	48612.00	48164.50	48167.40	48150.50	48385.20	48236.20	34886.30	34878.70	34873.20	34867.00	34829.80
LORAN END	17836.40	18165.70	18165.70	18175.70	18120.50	18158.00	14024.00	14027.80	13923.20	13854.90	13731.20
LORAN END	48606.00	48152.50	48158.90	48145.70	48421.60	48221.20	34882.20	34874.50	34874.10	34867.80	34832.90
GEAR DEPTH	131	44	44	44	273	148	93	142	219	120	312
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.00	1.90	1.76	2.19	2.10	2.00	2.20	2.20	1.70	1.90	1.70
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	17378.2	NO CATCH RECORDED TAGGING STATION					10778.0	260.1	0.0	25587.0	0.0
PACIFIC COD	738.6						1014.1	1289.7	0.0	716.5	0.0
PAC OCEAN PERCH	9277.1						4.9	141.1	4.0	743.0	0.0
NORTHERN RKFH	0.0						0.0	20.7	0.0	0.0	0.0
SHORTRAKER RKFH	1139.8						0.0	0.0	2237.7	30.9	2129.7
ROUGHEYE RKFH	1294.1						0.0	195.8	2511.1	134.5	0.0
SHORTSPINE TH	56.9						0.0	0.0	350.5	3.5	178.6
OTHER ROCKFISH	0.0						0.0	0.0	15.4	2.2	0.0
SABLEFISH	61.7						0.0	11.0	493.8	0.0	1468.3
ATKA MACKEREL	0.0						1.8	10.6	0.0	0.0	0.0
GIANT GRENADIER	0.0						0.0	0.0	108.0	0.0	165.3
SCULPINS	434.3						0.9	89.9	15.4	46.7	1.8
OTHER ROUNDFISH	5.3						0.9	0.9	0.4	26.9	6.6
TOTAL ROUNDFISH	30386.0						11800.5	2019.9	5736.5	27291.2	3950.3
ARROWTOOTH FL	507.1						72.3	71.4	11.5	154.3	251.3
GREENLAND TURBOT	86.0						37.5	0.0	8.8	0.0	160.9
FLATHEAD SOLE	194.0						0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0						21.6	28.7	0.0	99.2	0.0
REX SOLE	291.0						0.0	0.0	6.2	11.9	0.0
DOVER SOLE	0.0						0.0	0.0	4.4	0.0	24.3
PAC HALIBUT	30.4						42.3	120.8	0.0	396.0	0.0
OTHER FLATFISH	0.0						0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1108.5						173.7	220.9	30.9	661.4	436.5
SKATES	0.0						4.4	112.4	41.9	119.1	94.4
OTHER ELASMOBRH	0.0						0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0						4.4	112.4	41.9	119.1	94.4
TANNER CRAB	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
GOLDEN KING CRAB	0.0						7.5	2.6	22.0	6.2	13.7
SQUID	165.3						52.5	0.0	16.3	0.0	1.8
OTHER INVERTS	0.4						1.3	0.0	4.4	0.0	1.3
TOTAL INVERTS	165.8						61.3	2.6	42.8	6.2	16.8
OTHER	0.0						0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	31660.3						12039.9	2355.9	5852.0	28077.8	4497.9

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	265	266	267	268	269	270	271	272	273	274	275
MONTH/DAY/YEAR	8/18/86	8/18/86	8/18/86	8/19/86	8/19/86	8/19/86	8/20/86	8/20/86	8/20/86	8/20/86	8/20/86
LATITUDE START	51 14.9	51 14.6	51 16.4	53 45.3	53 39.1	53 53.8	53 58.1	54 3.9	54 15.7	54 16.5	54 19.7
LONGITUDE START	179 13.1E	179 11.2E	179 15.1E	179 59.8E	179 58.0	179 55.2E	179 51.4E	179 53.7E	179 33.9E	179 37.3E	179 22.2E
LATITUDE END	51 15.2	51 14.5	51 17.6	53 43.7	53 37.0	53 51.8	53 56.7	54 5.6	54 17.5	54 18.5	54 21.3
LONGITUDE END	179 16.7E	179 14.2E	179 17.9E	179 59.3	179 56.2	179 56.2E	179 53.0E	179 51.7E	179 32.1E	179 36.0E	179 20.7E
LORAN START	13210.00	13197.40	13224.70	14019.20	14003.10	14030.30	14026.10	14069.50	13998.61	14025.00	13942.10
LORAN START	34745.40	34743.70	34746.00	34575.20	34590.80	34550.70	34535.70	34526.30	34469.10	34472.40	34441.90
LORAN END	13232.00	13215.30	13244.10	14016.00	14007.10	14027.80	14029.90	14064.50	13996.00	14026.30	13940.90
LORAN END	34749.30	34747.10	34747.90	34579.50	34597.60	34556.20	34541.10	34519.50	34462.20	34465.70	34435.70
GEAR DEPTH	85	131	52	312	279	202	148	219	137	87	219
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.30	2.00	2.10	1.70	2.40	2.10	1.80	2.10	2.00	2.00	1.90
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	76630.8	5907.1	1.3	0.0	0.0	0.0	0.0	0.0	7570.7	482.8	0.0
PACIFIC COD	220.5	154.3	1805.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OCEAN PERCH	3.1	705.5	44.1	0.0	0.0	0.0	1183.9	1858.5	1485.9	1845.3	0.0
NORTHERN RKFH	11.0	11.5	5745.3	0.0	0.0	0.0	0.0	0.0	0.0	871.7	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	63.9	0.0	184.3	0.0	0.0	943.6
ROUGHEYE RKFH	0.0	4.0	0.0	0.0	0.0	416.7	809.1	158.7	0.0	0.0	593.0
SHORTSPINE TH	0.0	0.0	0.0	81.6	141.1	288.8	154.3	302.0	0.0	0.0	496.0
OTHER ROCKFISH	0.0	0.0	136.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	26.0	0.0	112.4	160.9	81.6	0.0	0.0	0.0	0.0	11.0
ATKA MACKEREL	3.1	0.0	2863.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	2420.7	3333.4	63.9	0.0	0.0	0.0	0.0	0.0
SCULPINS	37.5	55.7	163.1	0.0	0.0	0.4	12.3	11.9	91.7	27.8	0.0
OTHER ROUNDFISH	0.0	0.9	17.2	187.8	145.5	0.4	0.0	0.4	3.1	10.1	0.4
TOTAL ROUNDFISH	76905.9	6904.9	10777.1	2802.5	3780.9	915.8	2159.7	2515.9	9151.4	3237.7	2044.1
ARROWTOOTH FL	30.4	35.3	5.3	0.0	0.0	99.2	55.1	28.7	92.6	0.0	0.0
GREENLAND TURBOT	0.0	0.0	0.0	121.3	374.8	707.7	37.5	277.8	0.0	0.0	445.3
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	0.0	0.0
ROCK SOLE	141.1	145.1	19.8	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0
REX SOLE	0.0	6.2	0.0	0.0	0.0	57.3	24.3	24.3	180.8	1.3	15.4
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	50.7	0.0	28.7	0.0	0.0	0.0
PAC HALIBUT	658.3	71.0	92.6	0.0	0.0	0.0	0.0	0.0	369.5	4.9	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	829.8	257.5	117.7	121.3	374.8	914.9	116.8	359.4	704.6	12.8	460.8
SKATES	125.7	75.0	0.0	77.2	3.1	24.3	0.4	28.7	210.8	191.8	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	125.7	75.0	0.0	77.2	3.1	24.3	0.4	28.7	210.8	191.8	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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	0.4	0.0	0.0	0.0	37.5	0.9	0.0	0.0	3.4
SQUID	1.8	90.4	2.2	0.0	0.0	319.7	0.0	103.6	0.0	0.0	147.7
OTHER INVERTS	0.0	0.0	0.0	29.1	7.5	0.4	4.0	0.9	3.1	0.0	4.4
TOTAL INVERTS	1.8	90.4	2.6	29.1	7.5	320.1	41.4	105.4	4.4	0.0	152.6
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	77863.2	7327.7	10897.5	3030.0	4166.3	2175.1	2318.4	3009.3	10071.2	3442.3	2657.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	276	277	278	279	280	281	282	283	284	285	286
MONTH/DAY/YEAR	8/21/86	8/21/86	8/21/86	8/21/86	8/22/86	8/22/86	8/22/86	8/22/86	8/23/86	8/24/86	8/24/86
LATITUDE START	54 23.4	54 23.8	54 45.0	54 40.4	54 36.4	54 51.0	54 48.8	54 54.4	54 57.9	51 29.1	51 29.4
LONGITUDE START	179 26.2E	179 18.8E	178 29.3E	178 33.8E	178 45.0E	178 23.6E	176 20.2E	176 26.8E	176 53.4E	178 39.1E	178 36.2E
LATITUDE END	54 21.7	54 23.6	54 46.5	54 39.9	54 34.7	54 52.7	54 49.7	54 55.0	54 57.8	51 28.3	51 28.3
LONGITUDE END	179 25.6E	179 16.0E	178 26.6E	178 36.6E	178 46.7E	178 23.7E	176 20.6E	176 29.6E	176 56.1E	178 42.1E	178 39.1E
LORAN START	13987.70	13941.60	13733.80	13737.20	13785.80	13730.00	12962.70	13039.50	13218.10	13022.80	13005.30
LORAN START	34438.90	34426.50	34296.20	34315.70	34343.40	34271.00	34096.70	34089.50	34117.60	34688.70	34684.80
LORAN END	13975.30	13921.80	13725.20	13752.40	13797.70	13739.60	12971.20	13059.70	13233.50	13039.80	13021.50
LORAN END	34442.20	34422.90	34288.00	34321.20	34347.80	34266.20	34094.60	34091.90	34121.80	34693.30	34689.80
GEAR DEPTH	112	246	334	410	465	290	328	301	481	82	104
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.33	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.90	1.80	2.10	1.70	2.00	1.70	1.10	1.90	1.60	2.10	2.00
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	17.6	7583.5
PACIFIC COD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.7	507.1
PAC OCEAN PERCH	1750.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
NORTHERN RKFH	2072.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
SHORTRAKER RKFH	0.0	275.6	0.0	0.0	0.0	33.1	33.4	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	136.7	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	41.9	524.7	83.8	97.0	134.9	260.1	133.6	123.5	60.0	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	450.6	167.6	77.2	17.6	359.4	43.4	108.0	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	0.0
GIANT GRENADIER	0.0	142.0	3002.7	1953.3	2250.9	1836.5	1867.3	8229.9	7062.3	0.0	0.0
SCULPINS	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.5	172.0
OTHER ROUNDFISH	351.9	0.0	401.2	589.1	480.2	138.9	296.6	97.4	388.9	11.9	0.0
TOTAL ROUNDFISH	4354.6	1426.0	3655.3	2720.1	2883.6	2627.9	2374.3	8558.8	7511.2	509.7	8272.6
ARROWTOOTH FL	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	17.6	70.5
GREENLAND TURBOT	0.0	401.2	348.3	152.1	410.1	637.1	63.5	86.0	68.3	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	0.0	30.9	26.5
REX SOLE	4.4	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	13482.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0
TOTAL FLATFISH	13487.0	401.2	368.2	152.1	410.1	637.1	63.5	91.3	68.3	48.5	121.7
SKATES	0.0	70.5	7.1	0.0	50.7	155.6	23.4	30.4	23.4	15.4	32.2
OTHER ELASMOBRH	0.0	189.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	260.1	7.1	0.0	50.7	155.6	23.4	30.4	23.4	15.4	32.2
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	0.9	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0
SQUID	3.5	5.3	77.2	63.9	0.0	2.2	0.0	0.0	169.8	0.0	3.5
OTHER INVERTS	0.0	16.3	0.4	3.1	4.9	15.0	0.7	0.0	0.0	0.4	0.4
TOTAL INVERTS	3.5	22.5	77.6	67.0	4.9	19.0	0.7	0.0	169.8	0.4	4.0
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	17845.2	2109.8	4108.1	2939.2	3349.3	3439.7	2461.8	8680.5	7772.7	574.1	8430.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	287	288	289	290	291	292	293	294	295	296	297
MONTH/DAY/YEAR	8/24/86	8/25/86	8/25/86	8/25/86	8/25/86	8/25/86	8/26/86	8/26/86	8/26/86	8/26/86	8/26/86
LATITUDE START	51 34.4	51 44.7	51 43.1	51 48.3	51 46.7	51 45.5	51 43.1	51 44.9	52 1.6	51 57.4	51 56.0
LONGITUDE START	178 22.9E	178 3.3E	177 54.1E	177 39.5E	177 26.2E	177 19.7E	177 18.4E	177 6.8E	176 58.7E	176 52.7E	176 42.1E
LATITUDE END	51 34.8	51 44.3	51 42.5	51 47.7	51 47.8	51 44.3	51 42.4	51 43.8	52 1.3	51 57.5	51 55.5
LONGITUDE END	178 20.5E	178 5.5E	177 56.8E	177 43.0E	177 29.3E	177 16.9E	177 15.2E	177 4.6E	176 55.7E	176 49.7E	176 39.5E
LORAN START	12935.00	12831.20	12769.10	12685.30	12597.50	12552.60	12542.50	12471.10	12445.50	12399.20	12329.20
LORAN START	34661.20	34623.00	34613.80	34588.10	34573.60	34568.00	34569.50	34552.20	34515.90	34514.90	34503.70
LORAN END	12920.30	12844.10	12785.60	12707.00	12619.20	12534.70	12521.10	12455.70	12425.80	12380.60	12312.50
LORAN END	34657.60	34626.30	34618.10	34593.30	34575.80	34565.80	34566.64	34551.10	34512.60	34511.00	34501.40
GEAR DEPTH	191	68	148	85	74	82	241	137	137	190	112
DURATION IN HOURS	0.50	0.25	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.60	1.41	1.70	2.30	2.00	2.10	2.10	1.80	2.00	2.00	1.70
PERFORMANCE / GEAR	7 /712	7 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	7.1	63.9	0.4	941.4	632.7	0.0	749.6	1435.2	72.8	1241.2
PACIFIC COD	0.0	1349.2	332.9	127.9	118.6	112.0	0.0	597.5	1543.2	147.7	99.2
PAC OCEAN PERCH	0.0	0.0	8.4	0.0	0.0	2.2	0.0	1541.0	1843.1	101.4	681.2
NORTHERN RKFH	0.0	396.8	4.9	0.0	0.0	5.7	0.0	0.0	0.0	0.0	1.8
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	463.0	28.7	0.0	211.6	0.0
ROUGHEYE RKFH	0.0	0.0	14.6	0.0	3.5	3487.7	11.0	77.2	37.5	690.1	41.4
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	227.1	305.1	29.5	275.6	112.4
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	13.7	0.0	0.0	0.0	487.2	0.0	251.3	445.3	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.9	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	0.0	121.3	0.0	0.0	0.0	0.0
SCULPINS	0.0	28.2	2.2	45.9	35.7	29.1	0.0	273.4	315.3	97.0	20.3
OTHER ROUNDFISH	0.0	72.3	11.9	0.9	5.7	2.6	12.3	27.3	2.6	10.1	25.6
TOTAL ROUNDFISH	0.0	1853.7	452.4	175.0	1105.0	4272.1	1321.9	3603.2	5458.7	2051.6	2223.1
ARROWTOOTH FL	0.0	0.0	47.6	94.8	37.5	21.6	136.7	180.8	304.2	937.0	0.0
GREENLAND TURBOT	0.0	0.0	86.0	0.0	0.0	0.0	491.6	19.8	0.0	169.8	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	343.9	366.0	357.2	211.6	271.2	0.0	235.9	32.2	0.0	4.0
REX SOLE	0.0	0.0	6.2	0.0	0.0	0.0	4.9	3.1	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	333.8	158.7	86.9	0.0	84.2	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	0.0	343.9	505.7	785.7	407.9	379.6	633.2	523.8	336.4	1106.7	4.0
SKATES	0.0	7.1	165.3	11.0	90.8	61.7	37.5	2677.3	127.9	7.9	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	7.1	165.3	16.8	90.8	61.7	37.5	2677.3	127.9	7.9	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.9	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	4.9	0.0	0.0	0.0	10.1
SQUID	0.0	32.6	158.7	0.0	0.0	0.0	141.1	200.6	372.6	557.8	75.4
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	0.0
TOTAL INVERTS	0.0	32.6	158.7	0.0	0.9	0.0	156.5	200.6	372.6	557.8	85.5
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	0.0	2237.3	1282.2	977.5	1604.5	4713.5	2149.1	7005.0	6295.5	3724.1	2312.7

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	298	299	300	301	302	303	304	305	306	307	308
MONTH/DAY/YEAR	8/27/86	8/27/86	8/27/86	8/27/86	8/27/86	8/28/86	8/28/86	8/28/86	8/28/86	8/28/86	8/29/86
LATITUDE START	52 0.4	52 1.8	52 17.7	52 15.4	52 13.2	52 10.4	52 4.2	52 29.1	52 30.8	52 29.4	52 22.5
LONGITUDE START	176 30.9E	176 18.0E	175 21.9E	175 20.2E	175 19.0E	175 12.2E	175 5.7E	174 22.1E	174 15.0E	174 3.6E	174 8.0E
LATITUDE END	51 58.9	52 1.6	52 16.7	52 16.9	52 11.2	52 9.7	52 5.6	52 30.2	52 30.6	52 27.5	52 20.8
LONGITUDE END	176 32.9E	176 20.6E	175 25.0E	175 19.5E	175 18.8E	175 8.5E	175 7.7E	174 25.1E	174 12.0E	174 3.0E	174 6.1E
LORAN START	12263.60	12181.90	11836.70	11822.40	11812.20	11766.20	11723.30	11455.60	11409.70	11336.70	11364.50
LORAN START	34482.40	34463.60	34364.00	34365.80	34368.40	34364.60	34367.40	34266.00	34254.20	34241.80	34260.60
LORAN END	12274.00	12198.60	11855.30	11819.70	11809.70	11741.90	11735.50	11476.00	11390.50	11332.60	11354.40
LORAN END	34487.50	34467.30	34369.60	34362.30	34371.70	34361.10	34367.50	34267.40	34249.80	34244.50	34261.40
GEAR DEPTH	53	437	142	98	126	93	213	115	60	68	82
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.00	1.60	2.10	1.60	2.00	2.50	1.70	2.10	1.90	1.90	1.90
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	1139.8	0.0	222.7	399.0	4821.5	224.9	0.0	826.7	240.3	2120.9	985.5
PACIFIC COD	176.4	0.0	125.7	515.9	460.8	809.1	0.0	366.0	19059.5	251.3	218.3
PAC OCEAN PERCH	410.1	0.0	127.9	6422.1	3060.0	3836.1	0.0	5.7	2.2	0.0	22.5
NORTHERN RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0
SHORTRAKER RKFH	0.0	0.0	0.0	0.0	0.0	0.0	86.0	0.0	0.0	0.0	8.4
ROUGHEYE RKFH	0.0	0.0	125.7	75.0	41.9	0.0	24.3	0.0	0.0	0.0	5.3
SHORTSPINE TH	8.8	189.6	176.4	28.2	0.0	0.0	350.5	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	207.2	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	0.9	0.0
GIANT GRENADIER	0.0	1494.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	34.4	0.0	7.9	23.4	54.7	5.7	0.0	39.7	143.7	42.8	118.6
OTHER ROUNDFISH	4.0	330.7	0.0	16.8	2.2	10.6	1.8	3.1	0.9	0.9	0.4
TOTAL ROUNDFISH	1773.4	2222.3	786.2	7480.3	8441.1	4886.3	462.5	1244.7	19446.6	2416.7	1358.9
ARROWTOOTH FL	56.0	88.6	169.8	56.0	116.8	112.4	352.7	288.8	55.1	58.2	105.8
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	105.8	24.3	57.3	41.9
ROCK SOLE	75.8	0.0	0.0	0.0	0.0	4.4	0.0	39.7	183.0	90.4	106.3
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	35.3	221.8	14.6	0.0	3.1
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	64.8	0.0	0.0	112.4	69.7	35.7	0.0	129.2	84.7	115.5	154.3
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	196.7	88.6	169.8	168.4	186.5	152.6	388.0	785.3	361.6	321.4	411.4
SKATES	0.0	15.9	0.0	0.0	0.0	22.0	15.4	48.1	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	15.9	0.0	0.0	0.0	22.0	15.4	48.1	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	0.4
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	21.2	9.3	6.2	12.3	3.1	3.5	8.4	12.3	0.0	0.0	0.0
SQUID	12.8	128.8	0.0	4.4	11.9	0.0	6.6	33.1	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	9.3	3.1	0.0	0.0	0.0	11.9
TOTAL INVERTS	34.0	138.0	6.2	16.8	15.0	12.8	18.1	45.4	0.0	0.0	12.3
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	2004.0	2464.8	962.1	7665.5	8642.6	5073.7	884.1	2123.5	19808.2	2738.2	1782.7

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	309	310	311	312	313	314	315	316	317	318	319
MONTH/DAY/YEAR	8/29/86	8/29/86	8/29/86	8/29/86	8/30/86	8/30/86	8/30/86	8/30/86	8/30/86	8/31/86	8/31/86
LATITUDE START	52 19.9	52 29.2	52 32.4	52 27.9	52 33.8	52 36.8	52 47.3	52 47.8	52 51.7	53 0.0	53 3.4
LONGITUDE START	174 10.8E	173 11.3E	172 58.7E	172 58.8E	172 54.9E	172 46.6E	172 37.7E	172 26.7E	172 25.0E	172 23.2E	172 38.9E
LATITUDE END	52 19.4	52 31.3	52 30.5	52 29.9	52 35.6	52 35.7	52 49.2	52 48.2	52 52.9	53 0.5	53 5.5
LONGITUDE END	174 7.8E	173 10.9E	173 0.0E	172 57.4E	172 53.3E	172 48.8E	172 35.1E	172 22.6E	172 21.8E	172 26.7E	172 40.0E
LORAN START	11382.40	11062.00	11022.40	11032.90	11012.90	11001.90	11010.00	11017.60	11030.60	11067.50	11086.00
LORAN START	34269.20	34176.10	34154.40	34162.80	34146.30	34129.90	34096.80	34082.30	34071.90	34051.90	34064.10
LORAN END	11364.80	11054.10	11028.00	11026.00	11010.00	11004.00	11017.20	11020.90	11036.80	11069.10	11100.70
LORAN END	34266.20	34171.20	34158.70	34157.70	34141.10	34134.70	34089.80	34076.30	34065.20	34055.30	34060.90
GEAR DEPTH	219	65	74	85	115	246	74	189	74	93	219
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	2.00	2.00	2.20	1.70	1.90	1.50	2.20	2.20	2.00	2.20	2.10
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	123.5	143.3	36.6	21341.2	0.0	4603.3	0.0	2059.1	1856.3	0.0
PACIFIC COD	14.6	1622.6	363.8	4303.0	1311.8	0.0	866.4	0.0	1153.0	1051.6	0.0
PAC OCEAN PERCH	4.4	4.9	15.4	0.0	19.8	0.0	4.0	1.3	0.0	233.7	0.0
NORTHERN RKFH	2.2	0.0	793.7	22.9	15.4	0.0	24.7	0.0	10.6	13.7	0.0
SHORTRAKER RKFH	68.3	0.0	0.0	0.0	0.0	211.6	0.0	37.5	0.0	0.0	454.2
ROUGHEYE RKFH	37.5	0.0	4.9	0.0	0.0	0.0	0.0	0.0	2.6	9.7	119.1
SHORTSPINE TH	207.2	0.0	0.0	0.0	0.0	75.0	0.0	33.1	0.0	0.0	1847.5
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	41.9	0.0	0.0	0.0	0.0	60.8	0.0	7.9	0.0	0.0	194.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1.3	0.0	0.0
GIANT GRENADIER	0.0	0.0	0.0	0.0	0.0	20.3	0.0	0.0	0.0	0.0	1155.2
SCULPINS	37.9	52.9	184.7	132.3	38.8	0.0	86.4	10.6	52.5	44.1	23.8
OTHER ROUNDFISH	0.9	0.4	54.7	0.0	0.4	11.5	13.7	1.3	1.3	1.3	0.9
TOTAL ROUNDFISH	414.9	1804.3	1560.4	4494.8	22727.5	379.2	5600.6	91.7	3280.5	3210.4	3799.5
ARROWTOOTH FL	284.4	3.1	75.0	266.8	185.2	59.5	55.1	97.0	114.6	141.1	324.1
GREENLAND TURBOT	315.3	0.0	0.0	0.0	0.0	350.5	0.0	50.7	0.0	0.0	339.5
FLATHEAD SOLE	0.0	31.7	119.1	29.5	57.3	0.0	11.0	1.3	44.1	0.0	0.0
ROCK SOLE	0.0	51.1	332.9	97.0	137.6	0.0	119.1	12.8	58.2	0.0	0.0
REX SOLE	18.5	0.0	11.0	4.4	16.3	0.0	0.9	16.3	0.0	0.0	375.2
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	22.0	35.3	261.9	5.7	6.2	21.6	0.0	84.7	0.0	277.8	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	640.2	121.3	799.8	403.4	402.6	431.7	186.1	262.8	216.9	418.9	1038.8
SKATES	0.0	0.0	0.0	12.3	0.0	0.0	0.0	14.1	5.7	34.4	46.3
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH	0.0	0.0	0.0	12.3	0.0	0.0	0.0	14.1	5.7	34.4	46.3
TANNER CRAB	0.4	0.0	0.4	0.0	0.0	0.0	0.0	3.5	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	4.4	0.0	0.0	0.0	0.0	10.6	0.0	7.5	1.8	0.0	3.1
SQUID	264.6	0.0	6.6	0.0	34.8	407.9	33.1	163.1	3.1	0.0	8.4
OTHER INVERTS	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.4	3.5	0.0
TOTAL INVERTS	269.4	0.0	7.1	0.0	35.3	418.4	33.5	174.2	5.3	3.5	11.5
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	1324.5	1925.5	2367.3	4910.6	23165.3	1229.3	5820.2	542.8	3508.4	3667.2	4896.0

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	320	321	322	323	324	325	326	327	328	329	330
MONTH/DAY/YEAR	9/ 1/86	9/ 1/86	9/ 1/86	9/ 1/86	9/ 1/86	9/ 2/86	9/ 2/86	9/ 2/86	9/ 2/86	9/ 3/86	9/ 3/86
LATITUDE START	53 3.8	53 3.8	53 1.6	52 20.3	52 20.8	52 22.6	52 16.4	52 4.2	52 4.4	51 57.6	52 1.7
LONGITUDE START	172 45.7E	173 1.2E	173 12.6E	176 19.6E	176 22.0E	176 6.8E	176 13.1E	177 22.1E	177 15.3E	177 12.7E	177 43.6E
LATITUDE END	53 3.7	53 4.3	53 1.5	52 20.2	52 20.7	52 22.7	52 15.3	52 2.6	52 4.0	51 58.5	52 1.5
LONGITUDE END	172 48.2E	172 58.2E	173 15.7E	176 22.8E	176 20.4E	176 7.7E	176 12.7E	177 20.1E	177 12.8E	177 10.3E	177 46.3E
LORAN START	11091.00	11107.80	11117.50	12224.20	12240.50	12142.80	12173.00	12603.20	12559.60	12530.00	12739.10
LORAN START	34072.60	34091.30	34110.50	34433.80	34435.90	34413.00	34432.20	34541.40	34532.40	34540.10	34572.40
LORAN END	11091.80	11107.30	11128.00	12244.70	12229.90	12149.40	12168.00	12587.10	12542.30	12515.90	12755.50
LORAN END	34075.10	34086.40	34114.90	34438.10	34434.20	34414.10	34433.60	34541.50	34530.00	34535.50	34576.60
GEAR DEPTH	41	137	74	126	123	301	82	90	52	137	109
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.33	0.25	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.60	1.90	1.90	1.90	1.10	1.00	1.20	2.00	1.60	1.70	1.80
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	5 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	939.2	0.0	3055.6	11491.4	3129.9	0.0	0.0	354.9	19.0	2590.4	568.8
PACIFIC COD	782.6	7.1	1973.1	7209.1	243.8	0.0	908.3	2026.1	4773.0	359.4	529.1
PAC OCEAN PERCH	0.0	2885.9	3205.5	48453.8	2147.8	0.0	877.4	0.0	0.0	21674.6	0.0
NORTHERN RKFH	0.0	0.0	11.0	489.4	0.0	0.0	921.5	0.0	25887.6	19.8	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	2.0	0.0	352.7	0.0	0.0	176.4	0.0
SHORTSPINE TH	0.0	529.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	198.4	0.0
OTHER ROCKFISH	0.0	0.0	4.4	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	139.3	0.0
ATKA MACKEREL	22.9	0.0	0.0	0.0	0.0	0.0	50.7	313.1	45448.0	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	306.0	163.6	119.5	6.2	16.7	0.0	1.3	21.6	47.2	503.5	25.1
OTHER ROUNDFISH	12.3	12.8	20.3	14.1	10.7	0.0	0.0	1.3	7.9	100.1	15.0
TOTAL ROUNDFISH	2063.1	3538.4	8389.5	67664.1	5551.0	0.0	3112.1	2717.0	76182.7	25762.0	1138.0
ARROWTOOTH FL	0.0	615.1	180.8	410.1	193.7	0.0	4.9	24.3	0.0	295.4	28.2
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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
ROCK SOLE	414.5	2.6	1.3	0.0	0.0	0.0	79.4	370.4	22.5	1.8	496.0
REX SOLE	0.0	7.1	1.8	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.9
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	92.2	0.0	22.9	772.5	431.6	0.0	89.1	166.7	59.1	0.0	72.3
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	506.6	625.7	206.8	1182.6	625.3	0.0	173.3	563.9	81.6	297.2	605.8
SKATES	0.0	4.4	103.6	7.5	0.0	0.0	0.0	434.3	0.0	0.0	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	0.0	4.4	103.6	7.5	0.0	0.0	0.0	434.3	0.0	0.0	22.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8
GOLDEN KING CRAB	0.0	0.0	0.0	44.1	56.8	0.0	2.6	0.0	0.0	13.2	0.0
SQUID	0.0	242.5	6.6	17.2	0.0	0.0	0.0	0.0	0.0	203.7	130.1
OTHER INVERTS	0.4	18.1	3.5	0.0	0.7	0.0	0.0	0.0	0.0	1.8	0.0
TOTAL INVERTS	0.4	260.6	10.1	61.3	57.5	0.0	2.6	0.0	0.0	218.7	152.6
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	2570.2	4429.1	8710.1	68915.4	6233.8	0.0	3288.0	3715.2	76264.3	26277.9	1918.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	331	332	333	334	335	336	337	338	339	340	341
MONTH/DAY/YEAR	9/ 3/86	9/ 3/86	9/ 4/86	9/ 4/86	9/ 4/86	9/ 4/86	9/ 4/86	9/ 5/86	9/ 5/86	9/ 5/86	9/ 5/86
LATITUDE START	52 2.8	52 4.5	52 3.5	52 0.0	51 53.7	51 56.3	51 52.8	51 54.3	51 54.6	52 3.5	52 2.3
LONGITUDE START	177 45.9E	177 50.2E	177 54.0E	177 57.6E	178 8.1E	178 3.0E	178 4.8E	178 8.2E	178 11.9E	178 16.0E	178 22.7E
LATITUDE END	52 1.9	52 2.7	52 2.6	51 58.5	51 53.4	51 54.5	51 52.4	51 54.0	51 56.4	52 2.2	52 2.8
LONGITUDE END	177 48.6E	177 49.9E	177 53.4E	177 58.7E	178 11.3E	178 4.3E	178 7.2E	178 11.5E	178 11.3E	178 18.9E	178 20.4E
LORAN START	12755.90	12787.80	12810.50	12825.90	12880.10	12852.50	12856.90	12882.00	12906.10	12954.00	12994.30
LORAN START	34574.30	34577.00	34583.50	34593.30	34616.10	34605.80	34613.30	34615.30	34619.40	34611.60	34621.60
LORAN END	12771.70	12781.60	12804.30	12830.00	12900.00	12857.40	12871.30	12902.90	12906.20	12969.40	12980.60
LORAN END	34579.10	34579.40	34584.00	34597.00	34620.50	34610.00	34616.80	34620.00	34616.00	34616.90	34618.00
GEAR DEPTH	74	137	295	219	87	252	56	126	191	74	137
DURATION IN HOURS	0.50	0.50	0.33	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	1.80	2.00	1.20	1.80	2.00	2.00	1.50	2.20	1.80	2.00	1.50
PERFORMANCE / GEAR	0 /712	0 /712	1 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	44.1	46909.6	0.0	2.6	19656.0	121.3	0.0	10313.7	189.6	0.0	1472.7
PACIFIC COD	731.9	2541.9	0.0	0.0	2339.1	116.8	531.3	2949.8	81.6	6298.6	132.3
PAC OCEAN PERCH	1.8	12629.0	0.0	1.8	0.0	0.0	0.0	158.7	1.8	0.0	39.7
NORTHERN RKFH	0.0	7.5	0.0	0.0	11.9	0.0	9.3	52.9	0.0	3.1	26.5
SHORTRAKER RKFH	0.0	0.0	213.8	198.4	0.0	46.3	0.0	0.0	28.7	0.0	18.5
ROUGHEYE RKFH	0.0	46.3	0.0	82.0	0.0	28.7	0.0	4.9	6.6	0.0	13.7
SHORTSPINE TH	0.0	0.0	190.4	194.9	0.0	77.2	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	4.4	0.0	0.0	0.0
SABLEFISH	0.0	0.0	153.7	33.1	0.0	138.9	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	2.2	0.0	1.8	0.0	0.0	0.0	0.0
GIANT GRENADIER	0.0	0.0	38426.1	24.3	0.0	2835.2	0.0	0.0	0.0	0.0	0.0
SCULPINS	15.0	63.9	1.3	0.0	63.9	0.0	45.9	75.8	4.0	11.9	12.8
OTHER ROUNDFISH	3.5	3.5	2.0	12.3	4.9	0.0	0.9	10.1	1.8	0.0	0.4
TOTAL ROUNDFISH	796.3	62201.8	38987.2	549.4	22078.1	3364.3	589.1	13570.4	313.9	6313.6	1716.5
ARROWTOOTH FL	17.6	136.7	314.0	233.7	48.5	416.7	46.3	94.8	275.6	176.4	15.4
GREENLAND TURBOT	0.0	0.0	200.4	94.8	0.0	59.5	0.0	0.0	5.7	0.0	0.0
FLATHEAD SOLE	8.4	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	269.0	405.7	0.0	2.6	791.5	0.0	107.6	1009.7	34.4	149.9	114.6
REX SOLE	0.0	6.6	7.3	26.5	0.0	33.1	0.0	8.8	0.0	0.0	8.4
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	537.0	202.8	0.0	74.5	224.4	139.3	244.7	36.6	264.1	318.8	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	832.0	763.7	521.8	432.1	1064.4	648.6	398.6	1149.9	579.8	645.1	138.5
SKATES	0.0	145.9	130.3	258.8	72.8	233.7	0.4	332.9	240.3	191.8	167.6
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0
TOTAL ELASMOBRH	0.0	145.9	130.3	258.8	72.8	233.7	0.4	332.9	249.1	191.8	167.6
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	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	11.0	0.0	1.3	0.0	8.8	0.0	21.2	17.6	6.6	0.0
SQUID	7.5	429.9	110.2	11.9	0.0	69.7	3.5	20.7	21.6	2.6	0.0
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	7.5	443.6	110.2	13.2	0.0	78.5	3.5	41.9	39.2	9.3	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	1635.8	63555.0	39749.5	1253.6	23215.2	4325.0	991.6	15095.1	1182.1	7159.7	2022.5

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	342	343	344	345	346	347	348	349	350	351	352
MONTH/DAY/YEAR	9/ 5/86	9/ 6/86	9/ 6/86	9/ 6/86	9/ 6/86	9/ 7/86	9/ 7/86	9/ 7/86	9/ 7/86	9/ 7/86	9/ 8/86
LATITUDE START	52 4.4	52 5.3	52 8.1	51 33.8	51 54.1	51 59.5	52 6.8	52 21.6	52 18.6	52 27.3	52 23.7
LONGITUDE START	178 14.8E	178 14.5E	178 12.3E	179 27.7E	179 20.6E	179 16.0E	179 18.4E	179 33.7E	179 38.0E	179 46.7E	179 49.4E
LATITUDE END	52 3.8	52 4.9	52 7.9	51 33.7	51 53.3	51 59.6	52 8.0	52 23.0	52 20.5	52 27.8	52 25.3
LONGITUDE END	178 17.8E	178 17.4E	178 14.8E	179 27.3E	179 22.0E	179 16.0E	179 20.5E	179 34.6E	179 37.4E	179 49.7E	179 51.0E
LORAN START	12948.00	12948.30	12940.80	13340.10	13346.60	13331.40	13367.30	13511.90	13529.50	13615.20	13620.20
LORAN START	34608.50	34606.90	34599.70	34740.00	34705.90	34692.80	34685.70	34683.80	34693.80	34692.40	34701.10
LORAN END	12966.20	12966.40	12956.90	13337.90	13353.00	13331.60	13384.00	13521.90	13532.00	13635.90	13635.80
LORAN END	34613.30	34611.20	34603.30	34739.90	34708.70	34692.80	34686.50	34683.10	34690.20	34695.50	34700.80
GEAR DEPTH	208	306	476	295	142	219	230	213	131	120	71
DURATION IN HOURS	0.50	0.50	0.50	0.25	0.50	0.17	0.50	0.45	0.50	0.50	0.50
DISTANCE FISHED	1.80	1.90	1.60	1.00	1.40	0.08	1.80	1.50	2.00	1.80	2.00
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	1 /712	0 /712	6 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	0.0	0.0	0.0	0.0	1084.7	0.0	0.0	0.0	5630.2	130.1	0.4
PACIFIC COD	19.8	0.0	0.0	0.0	2242.5	0.0	0.0	0.0	502.7	337.3	187.4
PAC OCEAN PERCH	4.0	0.0	0.0	0.0	227.1	0.0	0.0	191.1	7434.9	4609.9	0.0
NORTHERN RKFH	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0
SHORTRAKER RKFH	288.8	394.6	0.0	1177.3	0.0	0.0	224.9	171.5	0.0	0.0	0.0
ROUGHEYE RKFH	513.7	346.1	0.0	19.4	8.4	0.0	81.6	1234.6	0.0	1254.4	0.0
SHORTSPINE TH	1.8	970.0	317.5	282.2	0.0	0.0	33.1	369.9	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	513.7	180.8	295.4	0.0	0.0	68.3	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	0.0
GIANT GRENADIER	15.4	23359.4	14801.9	73281.2	0.0	0.0	1970.9	0.0	0.0	0.0	0.0
SCULPINS	0.0	1.3	0.0	13.2	427.7	0.0	7.5	6.4	35.3	21.2	0.4
OTHER ROUNDFISH	0.4	945.3	149.0	83.8	6.6	0.0	17.6	10.3	10.1	9.3	0.0
TOTAL ROUNDFISH	845.3	26530.5	15449.2	75152.5	3997.0	0.0	2403.9	1983.7	13613.2	6371.4	188.3
ARROWTOOTH FL	163.1	888.5	28.7	4590.0	141.1	0.0	961.2	105.3	116.8	165.3	66.1
GREENLAND TURBOT	103.6	2581.6	156.5	405.7	0.0	0.0	500.5	66.1	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	145.5	0.0	0.0	0.0	659.2	0.0	42.3
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.4	57.3	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0
PAC HALIBUT	78.0	0.0	0.0	0.0	108.9	0.0	48.9	0.0	257.9	0.0	149.0
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	344.8	3470.1	185.2	4995.7	395.5	0.0	1512.8	185.2	1091.3	165.3	257.5
SKATES	179.5	11.0	41.9	66.1	162.7	0.0	89.9	14.2	7.9	43.2	0.0
OTHER ELASMOBRH	0.0	0.0	209.4	330.7	881.9	0.0	0.0	0.0	374.8	0.0	0.0
TOTAL ELASMOBRH	179.5	11.0	251.3	396.8	1044.6	0.0	89.9	14.2	382.7	43.2	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	8.8
GOLDEN KING CRAB	3.1	10.6	0.0	3.5	22.9	0.0	9.3	26.9	13.2	39.7	0.0
SQUID	276.9	875.7	224.9	0.0	0.0	0.0	21.2	15.2	15.0	0.4	0.0
OTHER INVERTS	0.9	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.9	0.0
TOTAL INVERTS	280.9	886.3	224.9	3.5	26.0	0.0	30.4	42.1	28.2	41.0	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	1650.4	30897.9	16110.5	80548.5	5463.1	0.0	4037.1	2225.2	15115.4	6620.9	454.6

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	353	354	355	356	357	358	359	360	361	362	363
MONTH/DAY/YEAR	9/ 8/86	9/ 8/86	9/ 9/86	9/ 9/86	9/ 9/86	9/ 9/86	9/ 9/86	9/ 9/86	9/10/86	9/10/86	9/10/86
LATITUDE START	52 38.2	52 39.0	52 42.9	52 42.6	52 42.6	52 11.4	52 8.4	52 6.4	52 3.2	52 3.0	52 2.3
LONGITUDE START	179 26.4	179 24.8	179 22.4	179 22.7	179 22.1	179 39.2	179 50.4	179 54.0	179 52.0	179 46.9	179 46.2
LATITUDE END	52 38.6	52 39.4	52 43.4	52 43.4	52 43.8	52 13.2	52 10.0	52 5.2	52 4.5	52 2.2	52 3.5
LONGITUDE END	179 25.9	179 24.3	179 22.3	179 22.3	179 22.0	179 38.3	179 48.8	179 56.6	179 50.0	179 50.2	179 44.1
LORAN START	13957.30	13970.60	14000.40	13997.50	14001.30	13781.30	13699.80	13670.80	13673.70	13704.90	13707.90
LORAN START	34736.90	34738.00	34735.50	34735.40	34736.30	34757.40	34747.40	34745.60	34752.20	34758.70	34760.50
LORAN END	13961.60	13975.00	14003.10	14003.20	14007.00	13793.00	13715.00	13650.30	13690.40	13682.10	13725.00
LORAN END	34737.20	34738.10	34734.80	34734.80	34734.70	34756.20	34747.30	34743.90	34753.00	34755.50	34761.60
GEAR DEPTH	66	60	77	60	60	210	90	74	112	169	221
DURATION IN HOURS	0.12	0.12	0.17	0.25	0.33	0.50	0.50	0.50	0.50	0.58	0.50
DISTANCE FISHED	0.50	0.42	0.40	0.80	1.24	1.90	2.00	2.10	1.70	2.00	1.80
PERFORMANCE / GEAR	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712	0 /712
POLLOCK	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	NO CATCH RECORDED TAGGING STATION	14.6	0.0	0.0	1759.3	1011.1	0.0
PACIFIC COD						0.0	4.4	989.9	194.0	0.0	0.0
PAC OCEAN PERCH						0.0	0.0	0.0	14.6	55.1	0.0
NORTHERN RKFH						0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RKFH						246.9	0.0	0.0	0.0	0.0	626.1
ROUGHEYE RKFH						202.8	0.0	6.6	0.0	13.3	586.4
SHORTSPINE TH						48.5	0.0	0.0	0.0	152.0	269.0
OTHER ROCKFISH						0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH						121.3	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL						0.0	0.0	0.0	0.0	0.0	0.0
GIANT GRENADIER						0.0	0.0	0.0	0.0	0.0	59.5
SCULPINS						0.0	0.9	26.0	108.9	64.6	39.2
OTHER ROUNDFISH						0.0	0.0	0.0	1.3	12.2	28.2
TOTAL ROUNDFISH						634.1	5.3	1022.5	2078.1	1308.3	1608.5
ARROWTOOTH FL						218.3	26.9	0.0	33.1	612.0	1011.9
GREENLAND TURBOT						341.7	0.0	0.0	0.0	62.7	1000.9
FLATHEAD SOLE						0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE						0.0	158.7	158.7	253.5	39.9	0.0
REX SOLE						11.5	0.0	0.0	0.9	32.3	11.9
DOVER SOLE						16.3	0.0	0.0	0.0	0.0	5.7
PAC HALIBUT						0.0	21.2	521.2	0.0	0.0	0.0
OTHER FLATFISH						0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH						587.8	206.8	679.9	287.5	746.9	2030.5
SKATES						81.6	50.7	94.8	33.1	24.7	123.9
OTHER ELASMOBRH						0.0	0.0	0.0	0.0	0.0	0.0
TOTAL ELASMOBRH						81.6	50.7	94.8	33.1	24.7	123.9
TANNER CRAB						0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB						0.0	0.0	93.5	35.3	3.8	0.0
GOLDEN KING CRAB						2.6	0.0	0.0	0.0	0.0	0.0
SQUID						229.3	6.6	0.0	0.0	32.3	172.0
OTHER INVERTS						0.0	0.0	3.1	0.0	0.4	0.0
TOTAL INVERTS						231.9	6.6	96.6	35.3	36.5	172.0
OTHER						0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH						1535.3	269.4	1893.8	2433.9	2116.4	3934.8

1986 ALEUTIAN ISLANDS SURVEY R/V GINRYU MARU NO. 5

HAUL #	364
MONTH/DAY/YEAR	9/10/86
LATITUDE START	52 2.2
LONGITUDE START	179 56.0E
LATITUDE END	52 3.6
LONGITUDE END	179 57.2E
LORAN START	13595.10
LORAN START	34738.80
LORAN END	13606.70
LORAN END	34738.60
GEAR DEPTH	71
DURATION IN HOURS	0.50
DISTANCE FISHED	1.50
PERFORMANCE / GEAR	0 /712
POLLOCK	0.0
PACIFIC COD	20.3
PAC OCEAN PERCH	0.0
NORTHERN RKFH	0.0
SHORTRAKER RKFH	0.0
ROUGHEYE RKFH	0.0
SHORTSPINE TH	0.0
OTHER ROCKFISH	0.0
SABLEFISH	0.0
ATKA MACKEREL	0.0
GIANT GRENADIER	0.0
SCULPINS	46.7
OTHER ROUNDFISH	0.0
TOTAL ROUNDFISH	67.0
ARROWTOOTH FL	0.0
GREENLAND TURBOT	0.0
FLATHEAD SOLE	0.0
ROCK SOLE	191.8
REX SOLE	0.0
DOVER SOLE	0.0
PAC HALIBUT	97.9
OTHER FLATFISH	0.0
TOTAL FLATFISH	289.7
SKATES	0.0
OTHER ELASMOBRH	0.0
TOTAL ELASMOBRH	0.0
TANNER CRAB	0.0
RED KING CRAB	0.0
GOLDEN KING CRAB	16.8
SQUID	0.0
OTHER INVERTS	0.0
TOTAL INVERTS	16.8
OTHER	0.0
TOTAL CATCH	373.5

SECTION C

Ranked CPUE, Average Weight of fish and Depth

of Capture by Species for

R/V's Lets Go and Ginryu Maru No. 5.

Guide to catch rates

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

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
162	71214.0	3.1	219
221	32562.4	2.9	219
101	6990.4	4.6	328
25	6730.8	3.0	156
168	6109.0	4.4	375
169	6020.8	7.7	219
345	4590.0	7.2	295
205	4113.8	1.6	137
44	3851.4	10.0	208
33	2537.6	4.0	202
159	1803.4	8.8	246
132	1744.3	0.7	98
188	1673.3	1.1	82
155	1492.5	8.7	230
227	1438.1	5.3	202
180	1366.9	0.9	71
246	1347.0	4.7	215
59	1312.4	9.0	323
118	1276.5	0.9	98
226	1273.8	2.7	137
104	1246.7	6.5	208
181	1219.2	0.8	60
225	1196.1	10.2	328
143	1171.5	2.0	132
184	1160.1	1.9	137
185	1127.4	1.5	66
50	1126.6	7.2	219
174	1091.3	2.3	93
163	1086.9	2.1	142
110	1056.0	1.1	180
363	1011.9	11.0	221
253	1009.7	0.9	71
86	992.0	9.9	328
97	987.7	10.5	323
348	961.2	5.7	230
149	943.6	4.5	230
296	937.0	9.6	190
150	932.1	1.1	120
9	920.2	2.0	210
136	901.7	0.6	87
224	888.5	7.0	219
343	888.5	4.7	306
120	884.5	1.1	93
199	851.0	4.7	202
123	840.0	5.5	290
223	756.2	3.6	137
133	751.8	0.5	101
61	721.0	8.6	219

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
131	710.3	0.8	98
90	694.4	6.7	208
179	683.4	2.3	87
148	634.9	4.5	235
87	626.2	3.6	180
125	622.6	3.1	230
250	617.3	1.0	71
321	615.1	2.8	137
362	612.0	10.4	169
187	610.7	0.9	77
85	579.8	8.5	290
88	557.3	5.3	306
129	549.0	1.2	142
229	540.1	2.6	120
32	511.4	2.3	128
215	509.3	2.7	137
254	507.1	2.8	131
192	489.4	2.1	115
106	470.5	1.0	93
249	430.8	2.3	148
336	416.7	3.8	252
121	414.5	3.7	148
323	410.1	4.5	126
78	393.8	3.6	137
20	390.2	1.3	134
115	385.8	4.7	301
116	370.4	0.3	98
65	359.4	3.5	153
304	352.7	9.3	213
200	347.4	3.1	153
24	344.0	0.9	98
142	341.7	3.2	301
77	337.4	4.1	153
119	337.3	0.6	71
98	332.9	0.9	142
22	328.4	6.8	332
315	324.1	5.8	219
47	324.0	2.2	134
333	314.0	5.8	295
295	304.2	4.1	137
240	302.0	3.8	126
248	299.8	2.5	191
232	297.6	0.7	71
329	295.4	11.4	137
305	288.8	2.3	115
215	286.6	2.3	98
305	284.4	4.2	219
126	277.8	0.9	180

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
339	275.6	2.2	191
312	266.8	2.1	85
122	265.0	0.3	142
10	262.2	1.4	88
214	260.8	5.6	219
230	260.1	4.8	137
156	257.9	1.6	137
247	255.7	3.6	410
264	251.3	6.3	312
42	242.6	2.6	79
167	238.1	1.0	131
80	237.2	4.0	126
117	233.7	5.6	306
334	233.7	4.0	219
36	225.2	5.6	142
194	224.9	3.4	219
111	222.7	0.8	142
68	222.6	4.0	191
358	218.3	6.8	210
252	217.8	3.2	219
210	198.4	4.7	219
220	196.2	2.1	120
324	193.7	2.1	123
145	189.6	2.0	148
19	187.4	0.8	98
23	185.2	5.4	312
130	185.2	1.1	235
313	185.2	2.2	115
294	180.8	7.0	137
322	180.8	2.3	74
60	176.4	4.6	137
340	176.4	2.8	74
67	172.0	6.6	350
201	172.0	3.2	137
300	169.8	8.5	142
170	168.4	2.7	334
124	165.3	3.2	126
158	165.3	6.4	437
351	165.3	13.8	120
189	163.1	1.1	41
342	163.1	4.1	208
146	160.9	5.4	312
238	156.5	0.6	63
263	154.3	1.9	120
175	147.7	1.6	41
318	141.1	1.7	93
346	141.1	10.1	142
235	136.7	1.4	159

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
293	136.7	6.2	241
332	136.7	2.2	137
21	136.6	1.7	191
8	130.0	0.9	96
128	125.7	3.5	301
157	125.7	7.0	355
165	119.1	1.0	82
239	119.1	0.8	74
207	116.8	1.1	66
234	116.8	1.2	200
302	116.8	3.9	126
350	116.8	9.7	131
114	114.6	0.9	98
317	114.6	1.7	74
173	112.4	3.5	230
303	112.4	1.9	93
147	110.2	3.9	301
308	105.8	2.1	82
349	105.3	5.9	213
16	103.6	0.6	66
74	103.6	7.4	301
233	101.4	0.6	63

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
130	479.0	2.2	144
66	311.0	2.4	114
123	170.0	1.1	108
70	153.5	2.8	87
36	151.2	0.5	46
24	142.0	2.1	97
13	108.0	3.9	204

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES GREENLAND TURBOT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
169	9016.1	10.3	219
123	6924.7	7.9	290
221	6753.2	4.6	219
162	6563.2	4.7	219
173	5736.4	4.5	230
125	4740.0	5.5	230
159	4561.4	16.2	246
127	4043.3	11.9	339
115	3611.2	6.7	301
117	2799.9	6.1	306
101	2729.3	6.0	328
128	2696.3	5.6	301
343	2581.6	8.7	306
172	2530.9	9.8	366
170	2118.6	4.7	334
148	2105.4	8.4	235
147	2075.3	9.5	301
130	2061.3	5.9	235
231	2017.2	7.5	465
246	1913.6	7.5	219
247	1907.0	12.7	410
168	1882.8	8.3	339
160	1657.9	15.9	366
234	1327.2	5.5	200
86	1300.8	12.8	328
171	1122.2	6.2	328
89	1084.6	12.1	290
33	1067.0	4.8	202
363	1000.9	12.8	221
146	858.6	15.5	312
225	844.4	15.1	328
88	738.6	8.6	306
270	707.7	12.2	202
142	692.3	5.4	301
97	687.8	10.4	323
248	693.4	6.0	191
281	637.1	14.5	290
90	536.4	6.5	208
155	582.0	9.1	230
104	577.4	15.2	208
194	575.4	6.1	219
61	555.6	11.1	219
161	513.7	12.8	426
348	500.5	10.9	230
293	491.6	7.7	241
59	482.9	11.3	323
275	445.3	13.9	219
22	416.6	11.6	332

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES GREENLAND TURBOT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
280	410.1	14.6	465
345	405.7	11.3	295
277	401.2	14.3	246
235	396.8	6.0	159
269	374.3	17.0	279
157	372.6	15.5	355
67	370.4	13.2	350
314	350.5	7.6	246
278	348.3	17.4	334
358	341.7	10.1	210
319	339.5	10.0	219
237	324.1	11.6	123
309	315.3	9.3	219
223	295.4	21.1	137
272	277.8	15.4	219
229	262.4	13.1	120
66	249.2	6.6	301
55	224.8	10.2	301
227	211.6	11.8	202
333	200.4	8.3	295
68	198.4	12.4	191
21	194.0	8.8	191
158	185.6	11.6	437
296	169.3	12.1	190
74	165.4	13.8	301
80	165.4	16.5	126
199	165.3	13.8	202
224	163.7	13.5	219
23	163.2	10.2	312
264	160.9	16.1	312
344	156.5	13.0	476
279	152.1	15.2	410
121	143.3	14.3	148
65	125.6	12.6	153
184	121.3	15.2	137
268	121.3	12.1	312
75	121.2	10.1	328

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES GREENLAND TURBOT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
37	430.0	5.2	228
98	164.0	9.1	212
42	154.0	15.4	119

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
276	13492.6	51.5	112
68	2770.4	25.7	191
196	2141.6	13.7	82
187	1716.1	40.9	77
251	1112.9	69.6	38
116	1107.6	11.3	98
182	1095.3	34.2	38
87	1087.4	34.0	180
204	1078.9	20.0	82
202	896.8	17.2	82
203	858.0	19.5	87
207	843.5	19.2	66
178	828.9	41.4	44
133	793.7	49.6	101
323	772.5	46.3	126
240	735.5	16.7	126
197	734.6	16.0	82
141	705.5	13.6	82
234	702.4	19.5	200
164	693.6	19.3	82
83	680.8	56.7	180
107	664.5	12.8	71
265	658.3	15.7	85
232	642.9	80.4	71
110	624.4	16.4	180
112	593.0	32.9	93
64	590.8	22.7	98
186	567.5	17.7	38
199	565.7	47.1	202
157	553.4	138.3	355
77	545.4	24.8	153
331	537.0	19.2	74
213	536.2	5.4	57
69	529.2	37.8	82
360	521.2	16.3	74
9	489.8	9.1	210
50	486.4	40.5	219
236	456.4	28.5	68
208	452.4	28.3	82
239	444.9	11.7	74
201	436.5	43.7	137
324	431.6	71.2	123
131	429.9	107.5	98
71	411.8	18.7	44
263	396.0	24.7	120
206	394.2	24.6	93
114	389.3	48.7	98
273	369.5	46.2	137

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
136	363.3	14.0	87
191	359.8	13.8	82
192	356.7	29.7	115
20	355.4	3.6	134
175	351.9	17.6	41
290	333.8	10.4	85
166	332.5	27.7	71
215	330.7	18.4	137
340	318.8	17.7	74
188	309.1	25.8	82
180	303.8	25.3	71
176	302.9	37.9	38
26	299.8	2.7	66
181	295.4	3.7	60
84	284.0	20.3	90
81	283.6	1.3	98
90	283.0	28.3	208
80	281.8	140.9	126
318	277.8	27.8	93
91	265.8	44.3	131
156	265.0	26.5	137
339	264.1	66.0	191
94	262.0	18.7	71
311	261.9	65.5	74
350	257.9	25.8	131
78	253.0	21.1	137
24	248.6	2.5	98
337	244.7	20.4	56
219	226.6	9.4	98
14	224.8	3.5	90
335	224.4	18.7	87
177	220.9	36.8	49
183	220.5	7.3	44
119	219.1	27.4	71
222	218.3	13.6	77
98	213.4	7.1	142
18	206.0	7.4	41
332	202.8	33.8	137
61	198.0	33.0	219
25	196.6	7.6	156
228	196.2	8.9	82
8	189.6	2.3	96
104	189.5	19.9	208
200	183.1	60.4	153
212	181.2	4.1	49
253	170.2	6.5	71
118	168.4	16.8	98
327	166.7	10.4	90

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
167	165.3	41.3	131
291	158.7	11.3	74
100	157.4	6.6	93
308	154.3	19.3	82
352	149.0	14.9	71
132	148.6	18.6	98
111	147.3	24.5	142
19	146.0	6.1	98
218	145.1	18.1	87
195	142.9	35.7	131
336	139.3	23.2	252
101	132.3	22.0	328
305	129.2	16.1	115
235	127.0	15.9	159
13	123.4	3.6	85
97	120.8	60.4	323
217	120.8	60.4	219
261	120.8	60.4	142
151	118.6	7.4	82
60	116.0	11.6	137
307	115.5	8.3	58
70	113.4	5.7	41
301	112.4	18.7	98
79	111.2	9.3	71
346	108.9	54.5	142
205	107.6	17.9	137
58	106.2	17.7	82
85	104.0	13.0	126
65	102.2	17.0	153
62	101.4	12.7	93

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES PACIFIC HALIBUT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
7	1349.0	96.4	71
73	531.9	63.8	76
22	433.6	12.8	56
81	318.2	8.9	45
43	290.0	24.2	63
19	263.4	14.0	86
1	262.2	4.9	84
35	247.8	15.5	50
2	223.4	16.0	48
47	216.0	4.0	51
111	205.8	8.6	38
13	197.8	49.5	204
23	196.4	24.6	58
39	159.8	5.3	44
67	157.8	11.3	61
10	152.2	4.5	67
14	151.0	4.7	64
107	146.6	14.7	85
91	142.8	35.7	66
119	141.8	8.9	69
100	137.8	13.8	74
12	137.4	22.9	46
110	124.6	6.9	71
115	123.6	2.9	44
41	113.6	18.9	66
16	112.6	13.1	68

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES FLATHEAD SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
120	1522.5	0.4	93
24	601.8	0.5	98
10	579.7	0.5	88
173	328.5	1.2	230
179	321.9	1.2	87
16	299.8	0.3	66
110	271.2	0.9	180
185	269.0	1.2	66
19	218.2	0.6	98
13	209.4	0.6	85
15	209.4	0.5	66
14	200.6	0.7	90
254	194.0	1.0	131
132	175.0	0.8	98
184	172.0	0.9	137
249	169.8	1.3	148
250	167.6	0.9	71
253	165.3	0.6	71
180	158.7	1.3	71
131	140.2	0.9	98
174	138.9	2.0	93
18	138.8	0.3	41
8	134.4	0.5	96
25	134.4	0.5	156
311	119.1	0.4	74
20	116.8	0.7	134
116	108.0	0.4	98
305	105.8	0.5	115
17	105.8	0.3	44

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES FLATHEAD SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
130	652.0	1.0	144
123	422.0	0.5	108
36	261.0	0.4	46
35	194.4	0.3	50
1	191.2	1.2	84
74	191.0	0.5	75
122	125.6	0.3	52
73	100.0	0.5	76

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
115	566.0	1.1	44
36	400.0	0.6	46
116	364.0	1.1	46
121	354.2	0.6	22
44	340.7	0.5	76
126	319.0	0.8	37
61	308.0	0.6	81
59	253.6	0.6	69
135	210.0	1.3	27
83	195.7	0.6	110
43	186.0	0.8	63
95	183.0	0.9	112
132	180.0	0.8	45
114	174.0	0.9	43
35	157.4	0.6	50
66	156.0	0.6	114
87	151.7	0.8	135
134	150.0	1.2	39
23	148.0	0.4	58
125	143.3	1.2	19
110	131.0	1.4	71
62	128.0	0.8	75
14	124.2	0.7	64
45	124.0	0.8	127
107	120.0	0.8	85
47	118.0	0.5	51
128	118.0	0.7	27
118	117.0	1.0	51
3	116.0	1.6	55
24	116.0	0.7	97
120	116.0	0.6	44
34	107.4	0.7	58
117	101.6	1.2	57
82	100.0	0.4	71

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
114	2134.3	1.1	98
181	1501.4	1.0	60
78	1309.6	2.1	137
196	1245.6	0.7	93
239	1142.0	0.6	74
338	1009.7	1.0	126
17	915.0	0.7	44
238	862.0	0.8	63
116	795.9	0.9	98
335	791.5	0.8	87
15	787.0	0.5	66
186	758.4	1.1	38
6	687.8	0.9	51
137	682.6	1.2	87
204	681.2	1.2	82
185	671.5	1.5	66
350	659.2	1.1	131
240	654.8	0.8	126
205	636.3	1.5	137
26	593.0	0.5	66
250	579.8	1.2	71
112	576.7	0.7	93
141	575.4	1.1	82
133	573.2	0.8	101
132	559.1	1.0	98
16	531.4	0.4	66
228	520.3	1.3	82
57	509.2	0.7	93
330	496.0	0.6	109
215	485.0	0.7	137
251	485.0	1.0	38
183	471.8	1.0	44
38	462.0	1.5	90
24	460.8	0.6	98
118	458.6	0.7	98
58	441.0	0.7	82
203	438.7	1.2	87
96	432.2	0.6	82
18	425.4	0.4	41
107	425.1	0.7	71
320	414.5	0.9	41
136	410.1	0.8	87
332	405.7	0.8	137
131	394.6	1.0	98
14	374.8	0.7	90
201	370.4	1.0	137
327	370.4	1.0	90
289	366.0	0.9	148

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
290	357.2	0.7	85
192	352.7	1.3	115
73	346.2	0.5	44
288	343.9	0.6	68
311	332.9	0.8	74
180	324.1	1.2	71
143	321.9	1.3	137
98	317.5	0.9	142
150	298.9	2.1	120
35	282.6	1.2	71
213	280.0	0.5	57
218	278.2	0.8	87
63	275.6	0.8	98
110	271.2	1.0	180
292	271.2	0.6	82
331	269.0	0.6	74
111	262.4	1.0	142
81	258.0	0.6	98
64	253.6	1.2	98
361	253.5	0.8	112
72	240.4	0.5	38
294	235.9	1.3	137
19	231.4	0.5	98
219	227.1	0.9	98
229	213.9	1.2	120
291	211.6	0.8	74
129	209.4	1.1	142
13	209.4	0.7	85
42	209.4	1.2	79
62	209.4	0.8	93
233	202.8	0.8	63
364	191.8	0.6	71
20	191.8	1.0	134
306	183.0	0.4	60
70	180.8	0.6	41
4	177.6	1.4	98
207	174.2	0.8	66
68	172.0	0.7	191
177	165.3	1.0	49
126	163.1	1.5	180
145	162.7	1.4	148
100	161.4	1.2	93
178	160.9	0.6	44
359	158.7	0.7	90
360	158.7	0.6	74
188	152.1	1.4	82
53	151.6	0.8	82
340	149.9	0.6	74

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ROCK SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
346	145.5	1.4	142
266	145.1	1.2	131
60	143.4	1.0	137
119	141.1	0.7	71
265	141.1	0.7	85
313	137.6	1.0	115
208	134.5	0.7	82
253	134.5	1.2	71
54	132.2	0.7	99
252	131.2	1.2	219
8	130.0	0.8	96
79	130.0	0.5	71
151	119.5	0.8	82
315	119.1	0.8	74
341	114.6	0.8	137

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES REX SOLE

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
25	1157.4	1.0	156
252	908.1	1.3	215
185	858.5	1.2	66
24	615.0	1.0	98
20	535.8	1.5	134
184	522.5	1.2	137
319	375.2	1.2	215
129	293.2	0.8	142
254	291.0	1.0	131
253	266.8	1.1	71
65	249.2	1.2	153
249	223.6	1.2	148
305	221.8	1.2	115
42	218.2	1.9	79
21	213.8	1.1	191
38	204.6	2.3	90
215	202.8	1.0	137
110	194.0	1.0	180
273	180.8	0.4	137
248	172.0	1.2	191
250	169.8	0.7	71
10	150.3	1.3	85
125	147.7	1.1	230
173	141.1	0.9	230

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
205	35696.4	6.2	137
226	23224.0	5.9	137
146	11885.2	5.0	312
162	9117.5	6.8	215
169	7173.4	8.7	219
155	4834.8	5.7	230
148	3922.0	3.9	235
142	3254.0	4.3	301
210	2896.9	7.5	219
171	2791.1	5.0	328
101	2707.3	6.0	328
143	2233.7	5.8	137
179	2105.4	5.0	87
173	2001.8	5.8	230
246	1970.9	5.7	219
159	1818.8	5.5	246
170	1768.1	5.2	334
225	1605.0	6.5	328
221	1556.5	5.7	215
227	1554.3	5.5	202
115	1490.3	5.8	301
264	1468.3	6.7	312
168	1362.5	6.6	339
104	1238.8	7.3	208
127	1201.5	4.9	339
97	1179.5	5.8	323
214	1115.8	6.2	219
231	1104.5	5.4	465
199	972.2	7.1	202
35	970.0	8.2	350
88	965.6	8.3	306
209	848.8	7.2	137
217	831.1	4.5	215
200	818.4	7.9	153
211	784.8	8.9	328
128	776.0	3.5	301
216	776.0	6.1	312
117	712.1	5.6	306
22	698.8	8.3	332
172	683.4	5.3	366
157	670.2	7.0	355
151	659.2	7.2	426
247	659.2	5.9	410
194	657.0	4.6	219
223	637.1	7.1	137
248	632.7	5.6	191
145	617.3	5.4	148
86	588.6	7.7	328

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
123	564.4	4.3	290
23	557.8	8.0	312
147	546.7	4.7	301
87	531.4	5.4	180
343	513.7	7.3	306
33	504.8	7.6	202
262	493.8	5.0	219
293	487.2	5.9	241
234	465.2	4.9	200
277	450.6	9.8	246
61	449.8	6.1	219
160	447.5	6.2	366
89	445.4	8.2	290
296	445.3	6.7	190
252	433.1	7.0	219
149	414.5	5.3	230
158	412.3	6.6	437
235	379.2	4.7	159
281	359.4	12.0	290
224	354.7	6.5	219
34	332.8	8.8	465
50	326.2	5.8	219
345	295.4	8.2	295
60	277.8	7.7	137
206	277.8	9.3	93
198	271.2	7.1	448
59	262.4	7.9	323
156	262.4	6.9	137
55	251.4	5.7	301
295	251.3	5.0	137
75	233.6	6.5	328
125	222.7	5.6	230
215	216.1	4.5	137
67	209.4	6.5	350
130	207.2	4.5	235
299	207.2	8.6	437
319	194.0	7.5	219
344	180.8	6.5	476
122	172.8	14.4	142
278	167.6	8.4	334
269	160.9	11.5	279
333	153.7	5.1	295
229	147.7	4.9	120
329	139.3	8.7	137
336	138.9	6.3	252
9	125.6	7.9	210
110	121.3	4.7	180
358	121.3	6.1	210

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SABLEFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
150	112.4	7.0	120
220	112.4	11.2	120
268	112.4	11.2	312
283	108.0	6.8	301
126	103.6	4.0	180

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
93	31707.8	22.0	66
94	23688.4	16.7	71
99	23357.6	6.9	82
306	19059.5	9.0	60
228	10799.5	8.1	82
18	10276.2	1.5	41
26	9389.0	13.4	66
323	7209.1	10.0	126
107	6977.7	6.8	71
202	6666.8	13.0	82
140	6643.0	6.6	87
10	6482.7	10.3	88
141	6386.8	10.1	82
340	6278.6	6.7	74
116	6230.3	10.4	98
58	6031.8	10.3	82
51	5991.8	8.9	82
151	5624.0	10.4	82
64	5266.8	11.2	98
328	4773.0	6.2	52
112	4385.0	3.4	93
249	4382.8	15.0	148
312	4303.0	12.9	85
98	3637.6	7.1	142
181	3346.6	6.0	60
177	3130.6	2.8	49
192	3115.1	6.8	115
206	3066.6	5.2	93
338	2949.8	8.7	126
137	2791.9	7.0	87
188	2769.0	9.6	82
45	2713.8	9.0	98
7	2674.2	4.8	79
332	2541.9	9.5	137
131	2496.1	4.5	96
335	2339.1	6.4	87
100	2255.3	3.5	93
346	2242.5	11.0	142
65	2204.6	9.7	153
207	2138.5	4.5	66
327	2026.1	8.7	90
322	1973.1	11.0	74
122	1897.7	8.3	142
47	1856.2	7.3	134
105	1816.6	2.1	38
267	1805.6	5.4	52
114	1752.7	3.3	98
118	1750.5	3.5	98

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
53	1684.4	4.2	82
310	1622.6	6.2	65
295	1543.2	7.7	137
119	1523.8	2.4	71
208	1428.6	5.3	82
156	1402.1	5.7	137
237	1364.7	6.0	123
288	1349.2	8.6	68
186	1320.6	2.2	38
313	1311.8	9.4	115
8	1292.0	7.3	96
261	1289.7	5.2	142
218	1258.8	8.2	87
239	1252.2	5.1	74
132	1250.9	1.9	98
121	1201.5	4.9	148
178	1179.5	3.6	44
96	1172.8	6.7	82
185	1153.0	7.1	66
317	1153.0	5.1	74
187	1146.4	5.3	77
32	1146.4	7.7	128
219	1120.0	5.4	98
318	1051.6	4.4	93
62	1045.0	5.9	93
163	1036.2	7.2	142
57	1023.0	5.2	93
260	1014.1	5.1	93
204	1011.9	5.3	82
17	1009.2	2.5	44
78	995.2	11.3	137
226	994.3	4.5	137
360	989.9	1.9	74
16	978.8	7.8	66
230	945.8	5.1	137
60	923.8	4.5	137
253	910.5	3.4	71
326	908.3	8.1	82
203	892.9	4.4	87
232	888.5	3.5	71
315	866.4	3.7	74
167	846.6	7.1	131
303	809.1	7.2	93
320	782.6	3.0	41
223	776.0	6.1	137
229	769.4	4.8	120
195	762.8	7.6	131
38	742.0	11.6	90

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
254	738.6	8.6	131
331	731.9	3.9	74
52	730.9	4.8	44
236	727.5	3.6	58
209	723.1	3.2	137
263	716.5	5.4	120
46	712.0	7.1	71
197	692.3	6.9	82
213	672.4	1.7	57
136	665.8	3.5	87
63	663.6	6.8	98
13	648.2	9.5	85
133	639.3	4.3	101
61	630.6	4.9	219
182	599.7	1.6	38
294	597.5	4.9	137
49	595.2	7.6	87
19	568.8	4.9	98
200	557.8	4.5	153
174	551.2	3.6	93
143	534.4	5.0	137
184	531.3	6.3	137
337	531.3	3.9	56
330	529.1	2.8	109
251	526.9	2.8	38
301	515.9	5.7	98
286	507.1	3.9	104
350	502.7	10.1	131
95	500.9	15.0	71
14	465.2	11.1	90
302	460.8	7.0	126
124	440.9	6.5	126
92	399.0	9.1	71
189	390.2	4.2	41
165	388.0	5.1	82
134	374.8	1.3	46
110	372.6	3.2	180
305	366.0	7.0	115
106	363.8	4.0	93
311	363.8	6.1	74
329	359.4	5.0	137
25	337.4	4.4	156
351	337.3	10.5	120
289	332.9	6.2	148
285	330.7	4.0	82
24	326.2	6.3	98
180	304.2	3.4	71
126	299.8	3.4	180

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
150	298.9	9.3	120
215	272.9	2.9	137
240	257.9	6.1	126
238	255.7	2.1	63
307	251.3	4.7	68
164	246.9	5.9	82
324	243.8	6.7	123
20	242.6	4.5	134
145	242.5	5.5	148
175	238.1	2.2	41
234	236.1	5.0	200
235	233.7	4.3	159
79	229.2	6.7	71
129	224.9	3.1	142
205	223.1	3.7	137
166	220.5	6.1	71
212	220.5	2.0	49
265	220.5	3.2	85
308	218.3	6.4	82
120	216.1	8.3	93
210	213.9	4.5	219
80	201.6	9.2	126
15	198.4	5.8	66
76	198.4	12.4	98
199	194.0	7.5	202
361	194.0	4.2	112
352	187.4	4.3	71
111	180.8	2.3	142
39	178.2	1.5	71
298	176.4	4.0	93
214	172.1	6.4	219
77	167.6	6.4	153
201	157.6	4.2	137
220	163.1	6.8	120
81	154.4	1.8	98
266	154.3	3.9	131
296	147.7	6.2	190
176	145.5	3.8	38
69	143.4	9.0	82
341	132.3	4.4	137
290	127.9	2.2	85
300	125.7	4.5	142
291	118.6	4.6	74
336	116.8	9.7	252
292	112.0	2.3	82
42	103.6	17.3	79

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
81	31824.6	9.1	45
132	4294.0	3.2	45
3	4053.0	7.8	55
114	3972.0	7.3	43
117	3469.8	7.8	57
70	1901.2	7.9	87
1	1625.2	19.8	84
67	1561.0	8.5	61
15	1248.8	7.1	72
16	1025.7	10.0	68
2	1022.0	4.7	48
5	1016.0	5.3	88
86	988.0	1.5	59
42	926.0	6.7	119
14	925.8	8.0	64
28	904.0	6.8	105
101	896.0	1.6	62
111	874.0	6.1	38
82	770.0	8.1	71
12	715.0	1.9	46
76	679.0	5.2	48
41	672.0	3.3	66
107	655.0	10.9	85
19	637.5	4.1	86
79	596.4	5.3	51
4	576.0	6.3	57
44	525.9	3.9	76
71	525.0	6.8	115
129	481.0	12.7	81
74	466.0	5.7	75
32	445.0	3.2	64
90	439.0	7.1	66
31	412.5	3.0	72
50	411.8	5.0	53
80	408.0	5.1	92
87	381.7	8.2	135
33	338.1	2.8	62
77	292.9	6.8	75
18	286.0	3.0	132
121	284.4	2.6	22
105	277.0	10.7	141
83	276.1	3.7	110
36	270.7	4.6	46
120	266.0	1.8	44
119	256.0	4.0	69
95	248.0	10.3	112
52	239.5	3.8	132
24	233.0	6.1	97

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES PACIFIC COD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
63	227.3	2.3	41
47	212.0	2.3	51
30	211.8	9.0	139
29	204.0	10.2	115
109	199.0	7.1	117
72	176.7	6.3	75
20	175.0	5.4	86
65	164.0	7.5	83
110	164.0	3.9	71
34	161.8	2.5	58
46	160.5	6.8	41
43	148.0	2.4	63
17	147.4	5.6	47
22	143.0	1.7	56
122	134.4	11.6	52
112	127.0	5.8	49
39	122.0	1.9	44
62	118.0	2.6	75
57	111.6	3.0	84
25	108.0	4.2	129
103	108.0	4.2	92
56	106.0	4.4	105
23	104.0	2.4	58
123	101.0	10.1	108

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC HERRING

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
181	3739.1	0.8	60
183	690.1	0.8	44
180	447.5	0.8	71
182	315.3	0.7	38
194	187.4	0.8	137
175	56.1	0.4	41
179	37.0	0.8	87
185	10.1	0.8	66

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
98	186070.8	2.3	142
116	115963.6	0.8	98
265	76630.8	1.5	85
179	46994.8	1.9	87
332	46909.6	1.4	137
206	43697.0	1.8	93
151	41486.8	1.9	82
64	35748.6	0.9	98
140	34534.2	2.6	87
63	28647.0	1.6	98
263	25587.0	1.5	120
226	23079.8	2.5	137
143	21405.6	2.5	137
313	21341.2	1.4	115
10	20630.5	1.3	88
335	19656.0	1.3	87
137	17482.7	1.8	87
254	17378.2	2.3	131
4	16112.8	1.7	98
202	15384.8	1.0	82
185	15170.1	1.5	66
145	14700.5	2.5	148
249	13982.2	2.0	148
203	12811.1	1.7	87
323	11491.4	2.1	126
207	11058.4	0.9	66
195	10901.9	2.2	131
260	10778.0	1.2	93
181	10615.3	2.0	60
338	10313.7	2.0	126
229	10181.0	2.4	120
62	9714.4	1.5	93
205	9024.0	2.0	137
156	8739.1	2.4	137
150	7932.3	2.1	120
286	7583.5	1.6	104
273	7570.7	0.8	137
8	7079.0	1.4	96
167	6889.0	2.0	131
42	6878.4	1.3	79
184	6740.4	2.3	137
200	6264.5	2.3	153
60	5981.2	1.3	137
266	5907.1	1.9	131
45	5809.2	1.9	98
350	5630.2	1.3	131
253	5420.3	1.1	71
302	4821.5	2.4	126

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
131	4706.0	1.9	98
315	4603.3	1.2	74
149	3653.1	2.8	230
233	3633.2	1.1	63
91	3523.0	1.1	131
32	3359.8	2.6	128
324	3129.9	2.2	123
322	3055.6	1.0	74
106	3042.4	0.6	93
187	2956.4	2.0	77
65	2866.0	2.7	153
73	2857.2	0.4	44
136	2835.2	1.8	87
129	2775.6	2.3	142
329	2590.4	1.9	137
7	2548.6	1.0	79
162	2539.3	2.7	219
120	2484.6	1.4	93
53	2475.8	1.1	82
121	2330.3	2.6	148
132	2200.2	2.1	98
307	2120.9	0.5	68
141	2094.4	2.1	82
317	2059.1	1.0	74
96	1942.2	1.2	82
201	1931.3	2.5	137
3	1913.2	1.9	71
318	1856.3	1.7	93
223	1783.5	2.3	137
252	1771.6	2.4	219
361	1759.3	1.5	112
219	1660.1	0.9	98
232	1580.7	1.2	71
133	1508.3	1.1	101
341	1472.7	1.9	137
295	1435.2	2.0	137
237	1406.6	2.0	123
19	1393.4	1.6	98
218	1274.3	0.9	87
236	1267.7	1.0	68
297	1241.2	1.8	112
78	1213.4	1.9	137
227	1192.7	2.8	202
298	1139.8	2.0	93
126	1126.6	2.9	180
38	1120.0	0.9	90
346	1084.7	1.4	142
362	1011.1	2.3	169

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
308	985.5	0.9	82
52	983.3	1.6	44
291	941.4	1.6	74
320	939.2	0.9	41
199	934.8	2.7	202
85	868.6	1.0	126
305	826.7	1.2	115
209	782.6	1.8	137
94	776.0	1.2	71
93	762.8	1.3	66
173	756.2	2.4	230
294	749.6	2.0	137
292	632.7	1.4	82
92	624.0	1.0	71
239	590.8	0.9	74
330	568.8	1.8	109
95	517.9	1.5	71
175	493.8	1.9	41
47	485.0	2.1	134
274	482.8	0.3	87
220	469.6	1.6	120
301	399.0	2.1	98
104	375.3	2.4	208
174	363.8	1.7	93
327	354.9	1.4	90
148	271.2	2.4	235
16	265.0	1.2	66
261	260.1	1.2	142
111	246.9	2.0	142
306	240.3	3.0	60
110	233.7	2.2	180
169	224.9	3.4	219
303	224.9	1.6	93
300	222.7	2.5	142
114	220.5	0.8	98
80	209.0	1.5	126
39	208.6	0.6	71
163	202.8	1.8	142
83	194.0	1.4	180
46	191.8	1.6	71
339	189.6	2.1	191
215	180.8	1.8	137
122	175.9	2.3	142
230	174.2	2.4	137
6	172.0	1.0	51
180	172.0	0.7	71
240	154.3	2.1	126
234	147.7	2.2	200

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
311	143.3	0.5	74
221	130.1	4.1	219
351	130.1	1.4	120
14	130.0	1.5	90
15	130.0	1.3	66
20	130.0	1.7	134
17	125.6	1.2	44
310	123.5	0.4	65
336	121.3	1.3	252
238	119.1	0.9	63
77	116.4	1.9	153
26	116.0	0.7	66
49	112.4	1.6	87
37	103.6	1.1	96

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES WALLEYE POLLOCK

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
1	8210.8	2.0	84
87	7816.7	2.2	135
107	7028.0	1.0	85
122	7027.9	2.2	52
80	6156.0	1.7	92
35	4929.6	1.0	50
71	3966.7	1.5	115
59	3245.5	1.2	69
18	2836.0	1.9	132
74	2751.0	1.2	75
44	2748.1	0.9	76
67	2244.0	2.7	61
56	2210.0	1.5	105
66	1611.0	0.9	114
25	1573.0	1.8	129
104	1427.0	1.3	120
65	1402.0	1.0	83
11	1263.2	2.1	138
54	1242.2	2.1	85
123	1127.0	0.6	108
105	1120.0	1.6	141
33	1111.9	1.0	62
20	902.9	1.0	86
63	895.5	0.5	41
31	803.1	1.2	72
24	760.0	1.0	97
130	642.0	2.2	144
109	565.8	2.0	117
78	474.0	0.7	50
42	442.0	1.7	119
32	385.0	1.1	64
95	294.0	1.4	112
52	286.0	2.2	132
13	283.0	2.7	204
129	246.0	1.3	81
51	199.0	1.7	81
70	144.2	1.2	87
83	130.4	1.6	110
64	130.0	0.6	69
57	108.1	1.2	84

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ATKA MACKEREL

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
52	217178.8	0.9	44
51	60336.8	1.3	82
137	60226.0	1.7	87
328	45448.0	0.9	52
38	40570.4	1.1	90
39	39658.2	1.0	71
151	37725.6	1.8	82
5	27421.2	0.8	71
46	25804.4	1.5	71
140	20942.6	1.7	87
93	14399.8	1.0	66
3	9841.0	0.5	71
95	8544.5	0.8	71
58	8273.0	1.1	82
94	7705.2	1.1	71
141	7041.6	1.7	82
267	2863.8	1.0	52
96	2605.8	1.1	82
178	1494.7	1.0	44
92	1470.4	1.0	71
4	1112.8	0.9	98
26	1102.8	1.1	66
6	950.2	0.5	51
150	474.9	2.7	120
2	432.2	0.6	137
327	313.1	1.4	90
204	249.1	1.8	82
42	222.6	0.9	79
62	176.4	1.5	93

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES ATKA MACKEREL

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
50	4679.4	1.0	53
79	3602.2	0.7	51

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
319	1847.5	1.4	219
90	1018.6	1.5	208
9	1007.6	1.3	210
343	970.0	1.7	306
50	824.6	1.3	219
115	749.6	1.1	301
86	676.8	1.4	328
35	560.0	1.7	350
321	529.1	1.0	137
277	524.7	0.8	246
275	496.0	0.7	215
44	496.0	1.4	208
146	407.9	3.8	312
117	401.2	0.7	306
246	379.2	1.9	219
2	370.4	1.2	137
349	369.9	1.8	213
88	350.6	1.8	306
262	350.5	0.7	219
304	350.5	0.7	213
75	324.0	2.7	328
344	317.5	3.3	476
294	305.1	1.6	137
33	303.0	2.3	202
272	302.0	1.1	219
22	295.4	1.6	332
270	298.8	0.8	202
36	288.1	1.6	142
345	282.2	2.4	295
155	280.0	5.0	230
296	275.6	1.7	190
55	271.2	2.4	301
363	269.0	1.6	221
210	254.6	1.8	219
281	260.1	1.8	290
23	249.2	1.9	312
89	244.8	1.2	290
74	242.6	2.6	301
293	227.1	0.8	241
309	207.2	1.1	219
252	204.7	1.2	219
329	198.4	1.9	137
334	194.9	2.5	219
333	190.4	2.0	295
299	189.6	2.3	437
264	178.6	0.6	312
300	176.4	2.3	142
271	154.3	1.4	148

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
362	152.0	1.5	169
59	146.9	0.9	323
209	145.5	2.1	137
269	141.1	0.6	279
172	136.7	1.6	366
280	134.9	2.0	465
282	133.6	1.1	328
200	123.6	6.9	153
283	123.5	1.0	301
158	121.3	4.7	437
211	119.1	1.8	328
173	116.8	1.7	230
87	114.6	1.0	180
297	112.4	2.8	112
34	112.4	2.2	465
21	110.2	0.9	191
123	105.8	1.5	290
171	103.6	1.6	328

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ROUGHEYE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
33	39082.4	3.0	202
37	11486.2	1.4	96
122	6935.8	2.2	142
214	3565.0	2.9	219
292	3487.7	1.3	82
51	3426.8	2.2	82
61	2650.0	3.5	219
50	2533.2	3.0	219
252	2511.1	2.6	219
252	2279.1	3.3	219
210	2129.7	2.8	219
254	1294.1	0.9	131
351	1254.4	1.1	120
349	1234.6	2.4	213
246	1148.6	2.7	219
162	1076.3	3.7	219
90	967.8	2.4	208
209	945.8	2.0	137
271	809.1	3.0	148
44	734.2	2.8	208
156	716.1	2.1	137
296	690.1	2.0	190
155	685.6	2.9	230
39	673.8	1.9	71
159	615.1	3.6	219
275	593.0	3.2	219
363	586.4	3.1	221
111	579.8	2.7	142
104	569.5	3.1	208
165	564.4	1.1	82
342	513.7	3.3	208
150	474.9	4.5	120
221	467.4	3.8	219
131	434.3	2.1	98
110	425.5	2.1	180
83	425.4	1.9	180
270	416.7	5.5	202
1	416.6	2.3	230
217	410.1	2.9	219
326	352.7	2.0	82
78	349.2	1.5	137
343	346.1	3.5	306
9	332.8	3.3	210
195	293.2	2.0	131
87	242.6	2.9	180
184	227.1	1.5	137
194	207.2	4.0	219
67	207.2	2.4	350

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES ROUGHEYE ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
358	202.8	3.3	210
261	195.8	1.1	142
60	180.8	1.8	137
329	176.4	2.0	137
185	158.7	2.5	66
272	158.7	3.1	219
141	152.1	2.5	82
276	136.7	5.7	112
148	134.5	4.8	235
263	134.5	1.2	120
200	130.3	3.1	153
300	125.7	1.5	142
2	121.2	2.9	137
124	119.1	1.2	126
319	119.1	3.3	219
3	112.4	3.7	71
125	110.2	3.7	230
223	103.6	2.6	137

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
150	75949.6	1.1	120
122	57077.4	1.8	142
323	48453.8	1.6	126
78	47098.4	1.4	137
131	37213.8	1.0	98
184	34580.6	1.5	137
185	32775.0	1.2	66
132	27199.0	0.9	98
329	21674.6	1.1	137
121	21131.0	1.6	148
60	20897.6	1.0	137
4	15331.4	1.0	98
47	15312.4	1.7	134
167	14195.6	1.6	131
143	13412.1	2.2	137
249	13176.6	1.8	148
110	13007.3	1.5	180
332	12629.0	1.4	137
254	9277.1	1.4	131
205	8351.6	1.0	137
36	8328.3	1.4	142
126	8225.5	0.9	180
133	8178.7	0.7	101
350	7434.9	1.6	131
129	7083.9	1.3	142
301	6422.1	1.0	98
187	6313.6	1.5	77
226	5768.2	1.8	137
49	5767.4	0.7	87
85	5560.6	1.5	126
229	5377.1	2.1	120
111	5341.4	1.6	142
206	5228.9	5.9	93
136	4954.8	0.6	87
351	4609.9	1.6	120
163	4176.9	2.1	142
91	4043.2	0.9	131
220	4016.8	0.9	120
25	3858.2	1.8	156
303	3836.1	1.5	93
223	3558.3	2.3	137
322	3205.5	1.0	74
302	3030.0	1.3	126
321	2885.9	0.8	137
197	2845.3	0.4	82
10	2294.1	0.7	88
324	2147.8	1.2	123
94	2063.0	0.5	71

1986 ALEUTIAN ISLANDS SURVEY
GINRYU MARU NO. 5

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
150	75949.6	1.1	120
122	57077.4	1.8	142
323	48453.8	1.6	126
78	47096.4	1.4	137
131	37213.8	1.0	98
184	34580.6	1.5	137
185	32775.0	1.2	66
132	27199.0	0.9	98
329	21674.6	1.1	137
121	21131.0	1.6	149
60	20697.6	1.0	137
4	15331.4	1.0	98
47	15312.4	1.7	134
167	14195.6	1.6	131
143	13412.1	2.2	137
249	13176.6	1.8	148
110	13007.3	1.5	180
332	12629.0	1.4	137
254	9277.1	1.4	131
205	8351.6	1.0	137
36	8328.3	1.4	142
126	8225.5	0.9	180
133	8178.7	0.7	101
350	7434.9	1.6	131
129	7083.9	1.3	142
301	6422.1	1.0	98
187	6313.6	1.5	77
226	5768.2	1.8	137
49	5767.4	0.7	87
85	5560.6	1.5	126
229	5377.1	2.1	120
111	5341.4	1.6	142
206	5228.9	5.9	93
136	4954.8	0.6	87
351	4609.9	1.6	120
163	4176.9	2.1	142
91	4043.2	0.9	131
220	4016.8	0.9	120
25	3858.2	1.8	156
303	3836.1	1.5	93
223	3558.3	2.3	137
322	3205.5	1.0	74
302	3060.0	1.3	126
321	2885.9	0.8	137
197	2845.3	0.4	82
10	2294.1	0.7	88
324	2147.8	1.2	123
94	2063.0	0.5	71

1986 ALEUTIAN ISLANDS SURVEY
GINRYU MARU NO. 5

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
124	2041.5	0.9	126
80	2023.8	1.5	126
209	1951.1	1.1	137
77	1951.0	2.0	153
272	1858.5	1.9	219
274	1845.3	1.1	87
295	1843.1	1.3	137
156	1794.6	2.1	137
276	1750.5	1.1	112
201	1695.4	2.2	137
294	1541.0	1.1	137
273	1485.9	1.2	137
200	1456.4	1.1	153
215	1384.5	1.5	137
271	1183.9	1.8	148
95	1089.1	0.4	71
37	1060.4	0.8	96
145	1029.6	2.0	148
326	877.4	0.9	82
230	868.6	1.6	137
65	835.6	1.8	153
263	743.0	1.0	120
87	725.4	1.6	180
114	720.9	0.6	98
266	705.5	1.2	131
297	681.2	0.9	112
195	668.0	1.0	131
116	650.4	0.9	98
166	590.8	0.4	71
51	581.2	0.4	82
175	506.2	1.4	87
298	410.1	1.1	93
252	383.2	1.8	219
141	354.9	0.6	82
224	263.9	2.3	219
318	233.7	0.9	93
346	227.1	0.7	142
195	194.0	1.2	202
345	191.1	1.6	213
92	187.4	0.6	71
46	158.8	1.2	71
338	158.7	1.1	126
140	154.3	0.6	87
261	141.1	0.7	142
300	127.9	1.6	142
32	110.6	2.0	128
83	110.2	1.5	180
296	101.4	1.2	190

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
109	4519.0	1.4	117
18	2204.0	1.1	132
25	1023.0	1.3	129
42	898.0	1.3	119
20	632.4	0.8	86
104	543.0	1.3	120
26	488.4	1.8	183
29	426.0	2.5	115
52	382.6	1.2	132
19	264.1	0.5	86
80	260.0	1.4	92
45	164.0	0.8	127

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES DUSKY ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
185	7636.4	3.1	66

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES NORTHERN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
53	50984.8	1.0	82
328	25887.6	0.8	52
93	22920.2	0.6	66
39	19411.8	0.8	71
94	15806.8	0.9	71
185	15793.1	1.5	66
51	15410.0	1.0	82
3	14568.2	0.9	71
5	11428.8	0.6	71
95	10560.3	0.8	71
267	5745.3	0.6	52
52	5431.5	0.7	44
197	4716.6	1.4	82
141	4162.3	1.1	82
6	2978.4	0.7	51
46	2764.6	1.0	71
185	2744.8	1.7	82
276	2072.4	1.1	112
60	2001.8	0.5	137
92	1536.6	1.0	71
166	1316.2	1.0	71
119	1047.2	0.4	71
326	921.5	1.2	82
274	871.7	1.1	87
311	793.7	0.6	74
26	727.6	0.7	66
38	686.0	1.3	90
208	555.6	0.8	82
323	489.4	1.2	126
288	396.8	0.9	68
57	388.0	0.9	93
49	366.0	0.9	87
206	320.6	0.8	93
37	249.2	1.0	96
58	249.2	1.4	82
140	205.5	0.9	87
150	197.1	1.2	120

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES NORTHERN ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
117	6679.4	1.3	57
50	1217.6	0.8	53
79	1202.2	0.8	51
2	116.0	1.0	48

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
246	9713.6	5.5	219
252	2703.3	12.8	219
262	2237.7	2.9	219
217	2224.5	3.6	219
264	2129.7	2.4	312
110	1781.3	3.1	180
155	1208.1	2.7	230
345	1177.3	2.7	295
254	1139.8	24.8	131
210	1091.3	2.0	219
275	943.6	3.0	219
90	899.4	4.7	208
59	774.3	1.7	323
234	681.2	4.9	200
363	626.1	7.1	221
61	509.2	9.1	219
9	493.8	9.5	210
125	491.6	4.6	230
293	463.0	5.6	241
319	454.2	3.8	219
159	449.7	3.3	246
86	427.6	1.8	328
343	394.6	7.9	306
33	389.4	7.5	202
214	381.8	3.5	219
111	374.8	5.7	142
50	370.4	7.4	219
173	319.7	40.0	230
342	288.8	5.2	208
277	275.6	2.1	246
358	246.9	9.5	210
35	225.8	4.2	350
348	224.9	6.6	230
333	213.8	5.0	295
296	211.6	4.8	190
314	211.6	8.1	246
209	205.0	3.8	137
334	198.4	8.3	219
162	187.0	8.5	219
123	185.2	3.2	290
272	184.3	3.4	219
349	171.5	4.5	213
117	165.3	3.4	306
1	163.2	3.1	230
44	158.8	3.5	208
75	158.8	7.9	328
169	138.9	6.3	219
89	127.8	5.3	290

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
36	123.3	8.6	142
126	114.6	4.8	180
101	112.4	2.7	328
168	112.4	5.6	339
248	112.4	3.7	191
88	112.4	8.0	306
104	107.6	9.0	208

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
97	255.0	6.7	223
98	116.0	4.1	212

1986 ALEUTIAN ISLANDS SURVEY
GINRYU MARU NO. 5

SPECIES RED KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
73	736.4	3.0	44
71	641.6	1.9	44
79	112.4	2.3	71
360	93.5	3.9	74
16	64.0	3.6	66
118	52.9	6.6	98
239	52.9	5.3	74
361	35.3	2.5	112
119	22.9	5.7	71
330	19.8	3.3	109
120	18.5	2.3	93
18	14.6	7.3	41
352	8.8	2.2	71
17	8.8	1.5	44
76	7.4	3.7	98
362	3.8	2.2	169
332	2.6	1.3	137

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES RED KING CRAB

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
87	47.3	7.1	135
73	33.3	8.0	76
102	32.0	4.0	81
100	24.0	3.0	74
103	22.0	3.7	92
99	4.0	2.0	90

1986 ALEUTIAN ISLANDS SURVEY
R/V GINRYU MARU NO. 5

SPECIES SNOW CRABS

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
119	6.6	1.1	71
120	4.9	0.8	93
121	4.9	0.3	148
316	3.5	0.9	189
126	3.1	1.5	180
330	2.6	0.7	109
16	2.6	0.3	66
118	2.2	1.1	98
17	2.2	0.4	44
21	2.2	0.6	191
22	2.2	0.6	332
9	1.8	0.5	210
6	1.4	0.7	51
78	1.4	0.7	137
273	1.3	0.3	137
234	0.9	0.4	200
237	0.9	0.4	123
291	0.9	0.4	74
15	0.8	0.4	66
253	0.4	0.1	71
308	0.4	0.2	82
309	0.4	0.2	219
311	0.4	0.2	74
4	0.4	0.2	98
77	0.4	0.1	153

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES SNOW CRABS

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
123	61.0	0.6	108
122	32.8	0.4	52
35	11.6	0.6	50
133	11.1	0.4	47
39	10.0	0.3	44
132	7.0	0.3	45
37	5.7	0.4	228
42	3.0	0.5	119
124	3.0	0.5	26
87	2.7	0.8	135
113	2.5	0.3	49
36	2.4	0.3	46
135	2.0	0.3	27
43	1.0	0.5	63
112	1.0	0.2	49
121	0.4	0.1	22
129	0.4	0.0	81
130	0.4	0.2	144
44	0.4	0.1	76
131	0.2	0.1	46

1986 ALEUTIAN ISLANDS SURVEY
GINRYU MARU NO. 5

SPECIES RED SQUID (=MAJESTIC SQUID)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
2	31052.2	1.7	137
83	8688.4	1.3	180
149	1177.3	1.0	230
235	1128.6	1.1	155
142	991.1	1.0	301
25	648.2	1.3	156
68	604.0	1.1	191
130	504.9	1.0	235
60	482.6	1.1	137
234	460.8	0.9	200
252	454.6	1.4	215
296	440.9	1.0	190
295	372.6	1.0	137
173	368.2	1.0	230
332	361.6	1.2	137
162	340.4	1.1	215
270	319.7	1.0	202
169	302.0	0.9	215
221	299.8	1.2	215
1	295.4	1.1	230
61	269.0	1.2	215
184	244.7	1.0	137
321	242.5	1.2	137
90	238.2	0.7	208
358	229.3	2.3	210
187	224.9	2.4	77
329	202.8	1.0	137
294	200.6	1.1	137
254	165.3	1.4	131
289	158.7	0.9	148
275	147.7	1.1	215
293	141.1	1.0	241
129	130.1	0.9	142
223	130.1	1.1	137
210	121.3	1.1	215
240	116.8	0.9	126
309	116.8	1.0	215
179	116.4	0.8	87
272	103.6	1.0	215
50	99.2	1.2	215
126	90.4	0.8	180
266	90.4	1.0	131
314	86.0	1.0	246
44	85.0	1.2	208
363	77.2	0.8	221
297	75.4	1.3	112
246	70.1	1.0	215
111	67.9	0.8	142

1986 ALEUTIAN ISLANDS SURVEY
GINRYU MARU NO. 5

SPECIES RED SQUID (=MAJESTIC SQUID)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
98	63.9	0.8	142
217	63.9	1.2	219
21	63.4	1.7	191
121	63.1	0.8	148
330	61.7	0.9	109
65	59.6	0.9	153
260	52.5	0.7	93
110	50.3	0.7	180
316	46.3	0.8	189
172	45.9	1.0	366
248	37.5	0.9	191
155	36.6	0.9	246
104	35.2	0.9	208
313	34.8	1.0	115
171	34.4	1.2	328
305	33.1	1.0	115
315	33.1	1.0	74
288	32.6	1.0	68
91	32.6	0.8	131
362	32.3	1.1	169
77	30.4	1.0	153
87	30.4	0.4	180
214	29.6	1.5	219
227	26.9	0.9	202
74	26.0	1.0	301
131	25.1	1.0	98
23	23.0	1.0	312
215	22.0	0.9	137
335	21.6	1.4	191
348	21.2	0.9	230
55	21.0	1.1	323
88	20.8	1.0	306
168	20.7	0.9	339
338	20.7	1.3	126
253	19.8	0.9	71
89	19.0	1.0	290
170	17.6	1.0	334
199	17.6	1.0	202
218	17.6	1.8	87
80	17.2	0.8	126
323	17.2	1.4	126
237	16.8	0.9	123
249	16.3	0.9	148
262	16.3	1.6	219
155	15.9	1.0	230
147	15.9	0.9	301
345	15.2	0.7	213
115	15.0	0.8	301

1986 ALEUTIAN ISLANDS SURVEY
GINRYU MARU NO. 5

SPECIES RED SQUID (=MAJESTIC SQUID)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
350	15.0	1.1	131
342	14.6	0.9	208
117	14.1	1.4	306
194	13.7	1.4	219
148	13.2	1.3	235
298	12.8	0.7	93
22	12.0	1.2	332
302	11.9	1.0	126
334	11.9	1.2	219
145	11.5	1.0	148
132	11.0	0.8	98
163	11.0	0.8	142
123	10.6	1.1	290
146	10.6	1.3	312
66	10.2	1.0	301
205	10.1	1.3	137
127	9.7	1.2	339
216	9.7	1.6	312
225	9.3	0.9	120
343	9.3	0.9	306
75	9.2	0.7	328
36	8.8	1.2	142
315	8.4	0.8	219
143	7.9	1.3	137
231	7.9	1.0	465
125	7.5	0.9	230
331	7.5	1.2	74
200	7.3	1.2	153
211	7.1	1.2	328
295	7.1	0.7	437
333	6.7	1.1	295
95	6.6	0.8	82
235	6.6	0.7	74
304	6.6	0.6	213
311	6.6	0.8	74
322	6.6	0.8	74
355	6.6	1.7	90
55	6.6	1.1	301
20	6.2	1.6	134
86	5.8	1.0	328
225	5.7	1.0	328
247	5.7	0.7	410
336	5.7	0.7	252
160	4.9	0.8	366
167	4.9	1.2	131
277	4.9	0.8	246
224	4.7	0.8	219
128	4.4	1.1	301

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES SCALLOP (CHLAMYS SPECIES)

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
100	96.0	0.2	74
7	72.0	0.0	71
24	27.0	0.0	97
101	27.0	0.3	62
83	26.1	0.1	110
107	20.0	0.2	85
110	16.0	0.1	71
10	14.0	0.0	67
82	5.0	0.2	71
41	4.0	0.0	66
22	3.0	0.0	56
31	1.3	0.0	72
117	1.2	0.1	57
131	1.0	0.1	46
120	0.6	0.1	44
118	0.6	0.1	51
33	0.5	0.0	62
133	0.4	0.0	47
5	0.4	0.0	88
23	0.4	0.1	58
60	0.4	0.1	84
90	0.4	0.1	66
103	0.4	0.0	92
111	0.4	0.1	38
119	0.4	0.1	69
14	0.3	0.0	64
20	0.3	0.0	86
77	0.2	0.0	75
4	0.2	0.0	57
121	0.2	0.1	22
2	0.2	0.1	48
21	0.2	0.0	47
61	0.2	0.1	81
65	0.2	0.1	83
76	0.2	0.1	48
102	0.2	0.1	81
115	0.2	0.0	44
116	0.2	0.1	46
132	0.2	0.1	45

1986 ALEUTIAN ISLANDS SURVEY
R/V LETSGO

SPECIES SCALLOP UNIDENT

HAUL	CATCH LB/1.0 HR	AV WGT (LB)	GEAR DEPTH (FM)
87	9.3	0.1	135
88	1.0	0.1	59
117	0.6	0.1	57
116	0.2	0.1	46