



**Alaska
Fisheries Science
Center**

National Marine
Fisheries Service

U.S. DEPARTMENT OF COMMERCE

AFSC PROCESSED REPORT 92-10

Report to Industry: Fishing Log for the 1991 Bottom Trawl Survey of the Aleutian Islands.

June 1992



ERRATA NOTICE

This document is being made available in .PDF format for the convenience of users; however, the accuracy and correctness of the document can only be certified as was presented in the original hard copy format.

Inaccuracies in the OCR scanning process may influence text searches of the .PDF file. Light or faded ink in the original document may also affect the quality of the scanned document.

**REPORT TO INDUSTRY: FISHING LOG FOR THE 1991
BOTTOM TRAWL SURVEY OF THE ALEUTIAN ISLANDS**

**Prepared by
Ronald Payne**

**Resource Assessment and Conservation Engineering Division
Alaska Fisheries Science Center
National Marine Fisheries Service, NOAA
7600 Sand Point Way NE, Bldg. 4, Bin C15700
Seattle, WA 98115-0070**

June 1992

CONTENTS

	Page
Introduction.....	1
Methods.....	1
Results.....	4
Organization of Report.....	6
Section 1: Fishing log for the <i>Ocean Hope 1</i>	
Station Charts.....	9
Catches by haul.....	15
Catch rates for selected species.....	37
Section 2: Fishing log for the <i>Green Hope</i>	
Station Charts.....	55
Catches by haul.....	61
Catch rates for selected species.....	79
Appendix: Trawl diagram.....	97

INTRODUCTION

The fourth triennial bottom trawl survey of the Aleutian Islands region was completed during the summer of 1991 by the Resource Assessment Conservation Engineering (RACE) Division of the Alaska Fisheries Science Center (AFSC), Seattle, WA. The triennial groundfish surveys are designed to describe and monitor the distribution, abundance, and biological condition of the important groundfish stocks in the Aleutian Islands area. Previous surveys in this series were conducted in 1980, 1983 and 1986. The purpose of this report is to provide pertinent information collected by the research vessels to the U.S. fishing industry.

METHODS

The survey was conducted in three 23-day legs aboard two chartered commercial trawlers, the *Ocean Hope 1* and the *Green Hope*, from July 17 to September 27, 1991. The survey area covered a portion of the southern Bering Sea, from 165°W long. to 170°W long. and throughout the Aleutian Islands from 170°W long. to Stalemate Bank, 170°30'E long. (Figure 1). Sampling proceeded from east to west at pre-selected stations at depths ranging from 9 to 285 fathoms (16-521 meters (m)).

Description of Survey Area

Historically, the Aleutian Islands have been important fishing grounds for a variety of groundfish species including Pacific ocean perch (*Sebastes alutus*), Atka mackerel (*Pleurogrammus monopterygius*), walleye pollock (*Theragra chalcogramma*), Pacific cod (*Gadus macrocephalus*), Pacific halibut (*Hippoglossus stenolepis*), sablefish (*Anaplopoma fimbria*), rockfishes (*Sebastes* spp.) and several invertebrate groups including crabs and squid.

The Aleutian archipelago consists of 47 major islands extending westward in a nearly 1,500 kilometer (km) arc from the Alaska Peninsula to Attu Island. Located among the westernmost islands are several prominent banks and reefs including Petrel Bank located north of the island chain at approximately 180°W long., Buldir Reef and adjacent Tahoma reef (176°E long.), and Stalemate Bank, west of Attu Island (171°E long.). The bathymetry of the sea floor in the Aleutian region reflects the volcanic origin of the islands and is characterized by an irregular bottom, narrow continental shelf, and abrupt continental slope. The Aleutian Trench, approximately 120 km south of the chain, with depths from 4 to 7 thousand m defines the southern limit of the continental shelf and slope. The northern continental shelf and slope varies

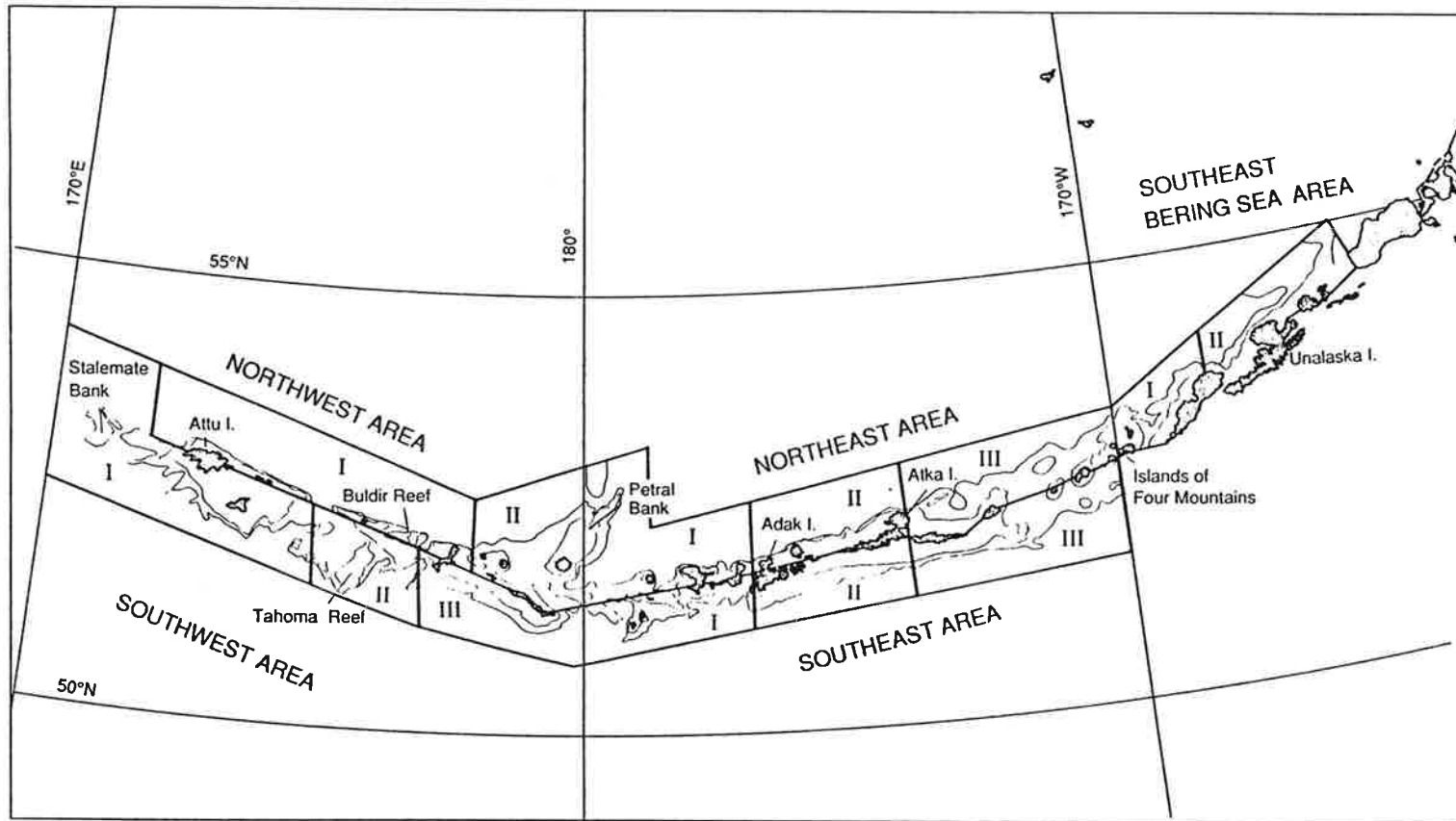


Figure 1.-- Areas surveyed during the 1991 Aleutian Islands triennial groundfish survey.

from 30 to 75 km in width and is bounded by Bowers Basin in the west and the Aleutian Basin in the east.

Vessels and Gear Characteristics

The *Ocean Hope 1* is 108 ft. (32.9 m) in overall length and powered by a single main engine with 850 continuous horsepower. Deck equipment included paired hydraulic winches with 600 fm (1,100 meters) of 7/8" (2.2 cm) cable per drum, two hydraulic net reels (one mounted over the stern ramp and the other mounted forward on the working deck), and two winches (one moveable) mounted on the main boom for lifting. The *Green Hope* is 100 ft. (30.7 m) in overall length and powered by a single main engine of 565 continuous horsepower. Deck equipment included paired hydraulic trawl winches with 800 fm (1,463 m) of 3/4" (1.91 cm) cable per drum, two hydraulic net reels (one mounted over the stern ramp and the other mounted forward on the working deck), and two stationary winches mounted on the main boom for lifting. Electronic equipment on both vessels consisted of Global Positioning System (GPS) and Loran C receivers with converters for geodetic positions, Loran C video plotters, two radars, single band and VHF radios, color video fish finders, and auto-pilots.

Both vessels used standard RACE Division polyethylene, high opening, Noreastern bottom trawls rigged with roller gear. Gear specifications included: an 89'-1" (27.2 m) headrope with twenty-one 12" (30 cm) diameter floats, and a 79'-7" (24.3 m) 1/2" longlink alloy chain "fishing line" attached to an 81'-7" (24.9 m), 3/8" (.95 cm) diameter 6 X 19 galvanized wire footrope. The roller gear was 79'-6" (24.2 m) long and constructed of 3/4" (1.91 cm) diameter 6 X 19 galvanized wire rope, 14" (36 cm) rubber bobbins separated by a solid string of 4" (10 cm) rubber disks. In addition, 19'-6" (5.9 m) wire rope extensions with 4" (10 cm) and 8" (20 cm) rubber disks were used to span each lower flying wing section.

Trawls were constructed of 5" (12.7 cm) stretched-mesh polyethylene web with a 1-1/4" (3.2 cm) mesh nylon liner in the codend. Net rigging consisted of triple 180' (54.9 m), 5/8" (1.6 cm) diameter galvanized wire rope dandylines. The dandylines were rigged with 18" and 9" chain extensions to the headrope and side panel attachments respectively. Steel V-doors with dimensions of 6' x 9' (1.83 x 2.74 m), and weighing approximately 1,700 lbs. (800 kg) each were used. Preliminary examination of the net mensuration data revealed that the nets towed by the *Ocean Hope 1* had a mean path width of 50.5' (15.4 m) as measured between the wing tips, while those towed by the *Green Hope* had a mean path width of 50.2' (15.3 m).

Survey Design and Operations

The stratified random survey design used for the 1983 and 1986 triennial surveys was again employed during 1991 to make efficient use of limited vessel time and provide consistency with earlier surveys. The survey region was first divided into major areas and then again into subareas based on the biomass distributions of the major species encountered during the 1980 and 1983 surveys (Figure 1). The subareas were further divided into three 100 m depth strata from 1 to 300 m and a single 200 m depth stratum between 300 and 500 m.

A total of 452 pre-selected stations were randomly selected from a pool of previously successful stations. The proportion of the total available sampling effort allocated to each stratum was the same as the 1986 survey which generally allocated the highest sampling densities to strata with the highest fish densities. Within each stratum stations were arbitrarily divided between the two survey vessels to minimize temporal and spatial separation of sampling effort.

Standard trawl hauls were 30 minutes in duration, allowing between 3 and 12 minutes sinking time between setting the winch brakes and beginning the tow. Efforts were made to maintain each tow at a constant depth. In cases where depths increased during a tow, trawl warps increased accordingly. Catches were sorted to species, weighed and enumerated according to standard AFSC and RACE Division protocol. A variety of biological data (age, length, sex, weight, and maturity of individual specimens) were taken. Special requests were also fulfilled for stomach, tissue, and whole fish samples.

RESULTS

Because of time lost to bad weather and gear repair, some stations were not sampled. Successful trawls were achieved at 350 of the 379 stations attempted. A total of 108 fish species were identified in survey catches. In addition to the groundfish species, catches also contained representatives from numerous invertebrate orders. Table 1 shows the dominant fish species ranked by catch per unit of effort, expressed as kilograms of catch per square kilometer trawled, (kg/km^2) for the five sampling areas (Figure 1). West of 170°W long., Atka mackerel, Pacific ocean perch, northern rockfish (*Sebastes polyspinis*), walleye pollock, and Pacific cod dominated the catches in most areas. The largest fish concentrations encountered during the survey were in the western Aleutian Islands (west of 180°W long.) and were composed primarily of Atka mackerel, Pacific ocean perch and northern rockfish. Catches in the eastern Aleutian Islands were represented mainly by Atka mackerel, Pacific ocean perch and walleye pollock. Pacific cod were relatively evenly distributed throughout the

Table 1.-- Mean CPUE's (kg/km²) by area for the twenty most abundant groundfish species encountered during the 1991 Aleutian Islands triennial groundfish survey.

Northeast Area		Northwest Area		Southeast Area	
Species	CPUE	Species	CPUE	Species	CPUE
Pacific ocean perch	6,640	Atka mackerel	11,240	Atka mackerel	8,448
Walleye pollock	5,829	Pacific ocean perch	4,149	Walleye pollock	2,363
Pacific cod	3,561	Pacific cod	2,972	Pacific cod	1,986
Atka mackerel	3,023	Walleye pollock	2,691	Pacific ocean perch	1,601
Northern rockfish	915	Giant grenadier	1,427	Sablefish	1,205
Giant grenadier	809	Northern rockfish	1,304	Pacific halibut	1,012
Rock sole	632	Rock sole	1,037	Rougheye rockfish	407
Pacific halibut	523	Kamchatka flounder	867	Rock sole	326
Greenland turbot	429	Pacific halibut	573	Northern rockfish	265
Arrowtooth flounder	343	Skates	514	Arrowtooth flounder	219
Kamchatka flounder	279	Greenland turbot	439	Skates	188
Skates	234	Shortraker rockfish	315	Pacific sleeper shark	79
Shortraker rockfish	113	Arrowtooth flounder	302	Shortraker rockfish	75
Prowfish	105	Myoxocephalus sp.	172	Giant grenadier	73
Rougheye rockfish	103	Rougheye rockfish	93	Myoxocephalus spp.	69
Flathead sole	93	Ebony eelpout	80	Kamchatka flounder	69
Darkfin sculpin	71	Yellow Irish lord	63	Darkfin sculpin	64
Myoxocephalus spp.	52	Shortspine thornyhead	56	Yellow Irish lord	60
Yellow Irish lord	51	Prowfish	55	Kelp greenling	33
Bigmouth sculpin	51	Spectacled sculpin	43	Rex sole	16
Number of hauls	108	Number of hauls	35	Number of hauls	72
Southwest Area		All Aleutian Areas		Southern Bering Sea	
Species	CPUE	Species	CPUE	Species	CPUE
Atka mackerel	24,727	Atka mackerel	12,171	Walleye pollock	7,866
Pacific ocean perch	14,701	Pacific ocean perch	7,170	Arrowtooth flounder	1,637
Northern rockfish	9,200	Walleye pollock	3,242	Pacific cod	1,362
Pacific cod	3,525	Northern rockfish	3,214	Rock sole	1,120
Walleye pollock	2,017	Pacific cod	3,000	Pacific halibut	986
Magistrate squid	1,887	Pacific halibut	600	Shortraker rockfish	638
Shortraker rockfish	887	Magistrate squid	560	Flathead sole	623
Rock sole	481	Rock sole	552	Pacific ocean perch	219
Kamchatka flounder	314	Giant grenadier	493	Yellow Irish lord	216
Skates	313	Sablefish	368	Myoxocephalus spp.	196
Arrowtooth flounder	294	Shortraker rockfish	357	Greenland turbot	186
Shortspine	272	Kamchatka flounder	308	Pacific sleeper shark	160
Pacific halibut	265	Arrowtooth flounder	286	Rex sole	132
Rougheye rockfish	193	Skates	277	Rougheye rockfish	123
Giant grenadier	192	Rougheye rockfish	219	Northern rockfish	74
Prowfish	168	Greenland turbot	214	Kamchatka flounder	72
Flathead sole	152	Shortspine thornyhead	104	Pacific herring	61
Greenland turbot	118	Prowfish	88	Darkfin sculpin	53
Myoxocephalus spp.	61	Myoxocephalus spp.	76	Bigmouth sculpin	49
Blackfin sculpin	32	Flathead sole	76	Shortspine thornyhead	45
Number of hauls	63	Number of hauls	278	Number of hauls	60

survey area. Important components of catches from the Southern Bering Sea area were walleye pollock, arrowtooth flounder (Atheresthes stomias), Pacific cod, and rock sole (Pleuronectes bilineatus).

ORGANIZATION OF REPORT

This report focuses on the catch data collected at individual stations and includes information for the principal species encountered during the survey. The fishing results are presented in Section 1 for the *Ocean Hope 1* and Section 2 for the *Green Hope*. Each section has three parts: 1) station charts with haul numbers plotted adjacent to their respective geographical locations, 2) summary listings of species catches by haul, and 3) summary listings of catch rates in descending order of magnitude for selected species of commercial interest.

Explanations of the labels appearing in the fishing logs are summarized in Table 2.

The Appendix contains specifications and diagrams of the fishing gear used during the survey (Table A1).

For further information contact Dr. Gary Stauffer, Director, Resource Assessment and Conservation Engineering Division, Alaska Fisheries Science Center, National Marine Fisheries Service, 7600 Sand Point Way NE., Building 4, BIN C15700, Seattle, WA 98115-0070 -- Telephone (206) 526-4170.

Table 2.-- Definitions of labels used in the fishing logs of the 1991 triennial bottom trawl survey.

Gear depth-	fathoms
Duration of tow-	tenths of an hour (standard tow is one-half hour)
Distance fished-	nautical miles
Gear performance-	<p>0 = satisfactory</p> <p>1 = satisfactory tow, net snagged bottom but damage and fish loss were minimal</p> <p>5 = unsatisfactory tow</p> <p>6 = unsatisfactory, net snagged bottom</p> <p>7 = unsatisfactory tow, torn net</p>
Gear type-	172 = polyethylene Noreastern bottom trawl with roller gear
Catch units-	<p>The listings of total species catches by haul are in kilograms. The summary listings of catch rates for selected species use kilograms of catch per nautical mile trawled. A 0.0 kg weight indicates a catch of less than 0.1 kg/nm.</p>

Section 1

Fishing Log for the *Ocean Hope 1*

- Station charts of haul numbers plotted adjacent to their respective geographical locations

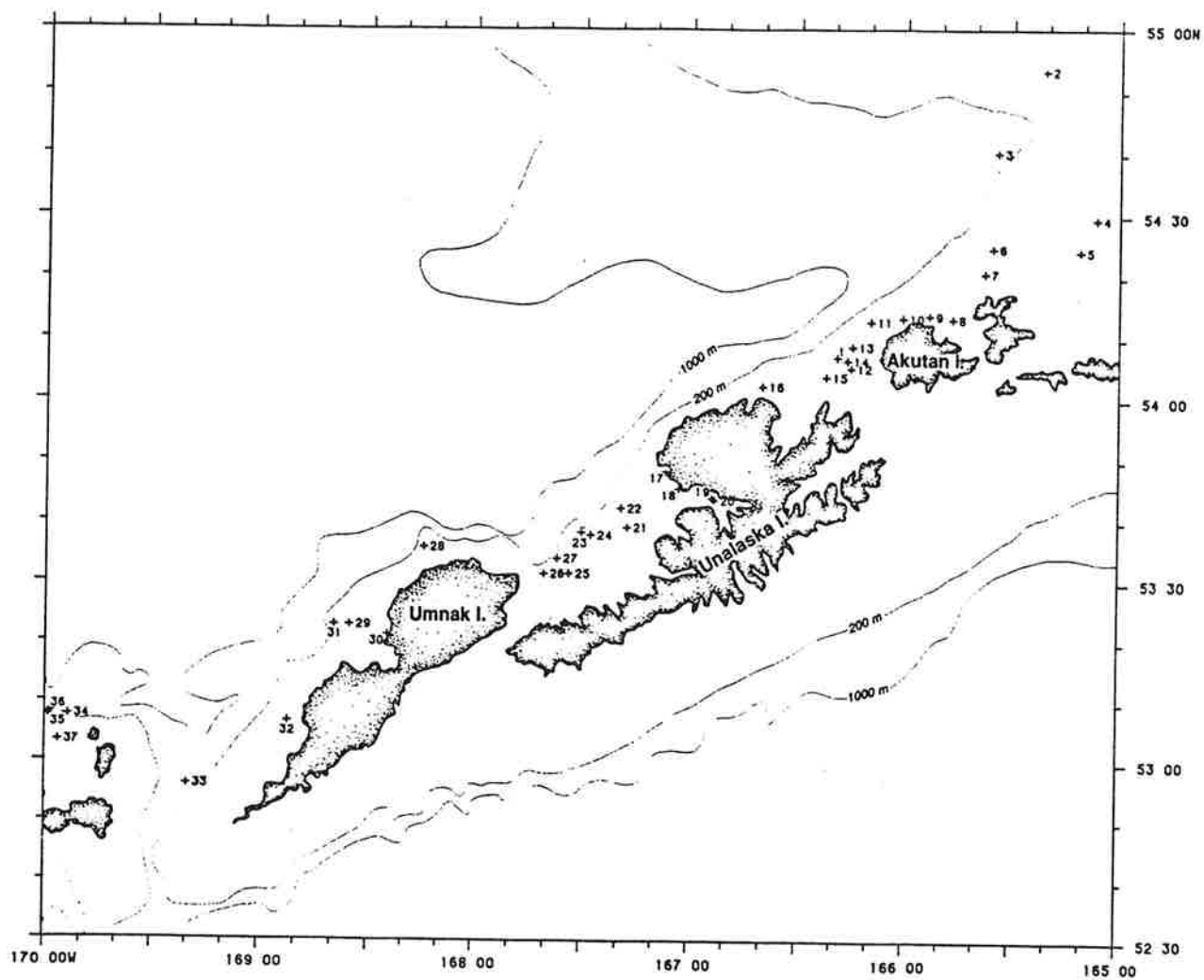


Figure 2.--Stations surveyed by the F/V *Ocean Hope 1* from Akutan Island to the Islands of Four Mountains (hauls 1-37).

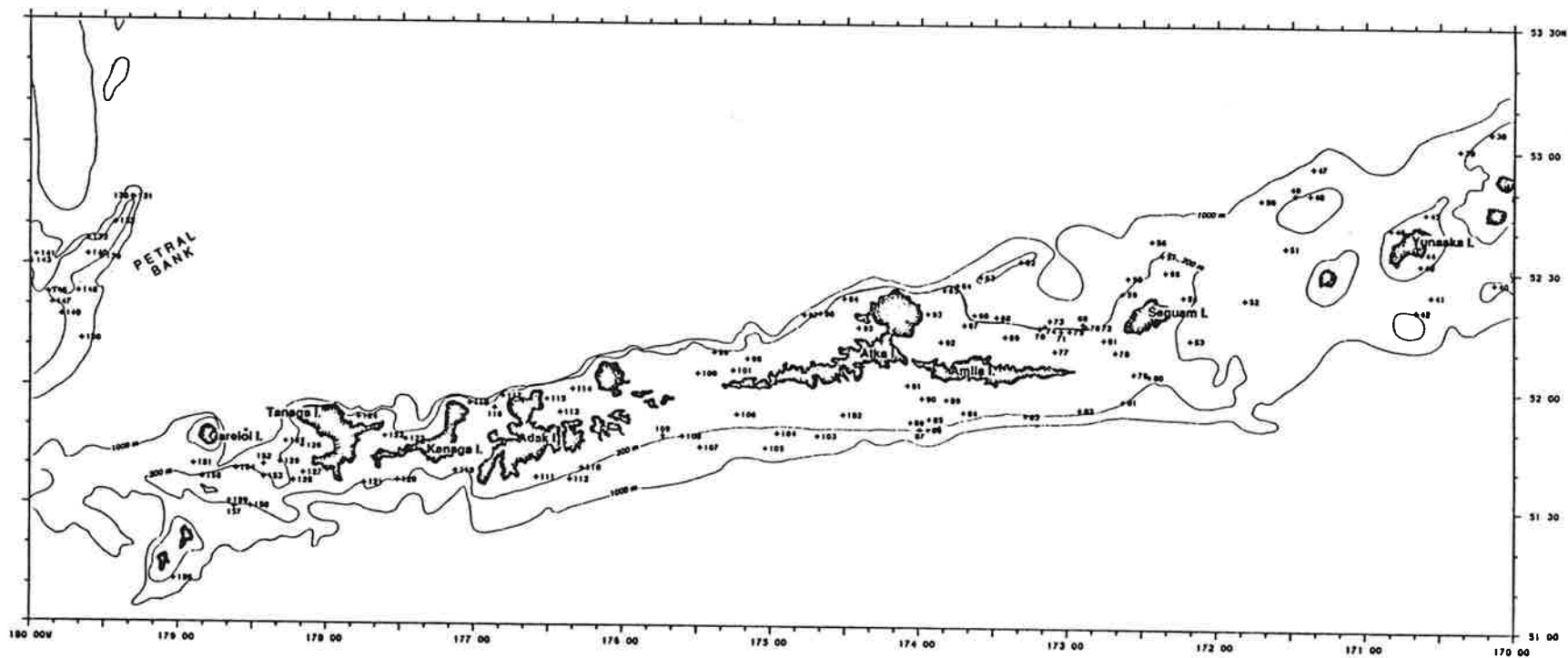


Figure 3.--Stations surveyed by the F/V *Ocean Hope 1* from Yunaska Island to Gareloi Island (hauls 38-129, 151-159) and eastern Petral Bank (hauls 130-133, 139-141, 143, 146-150).

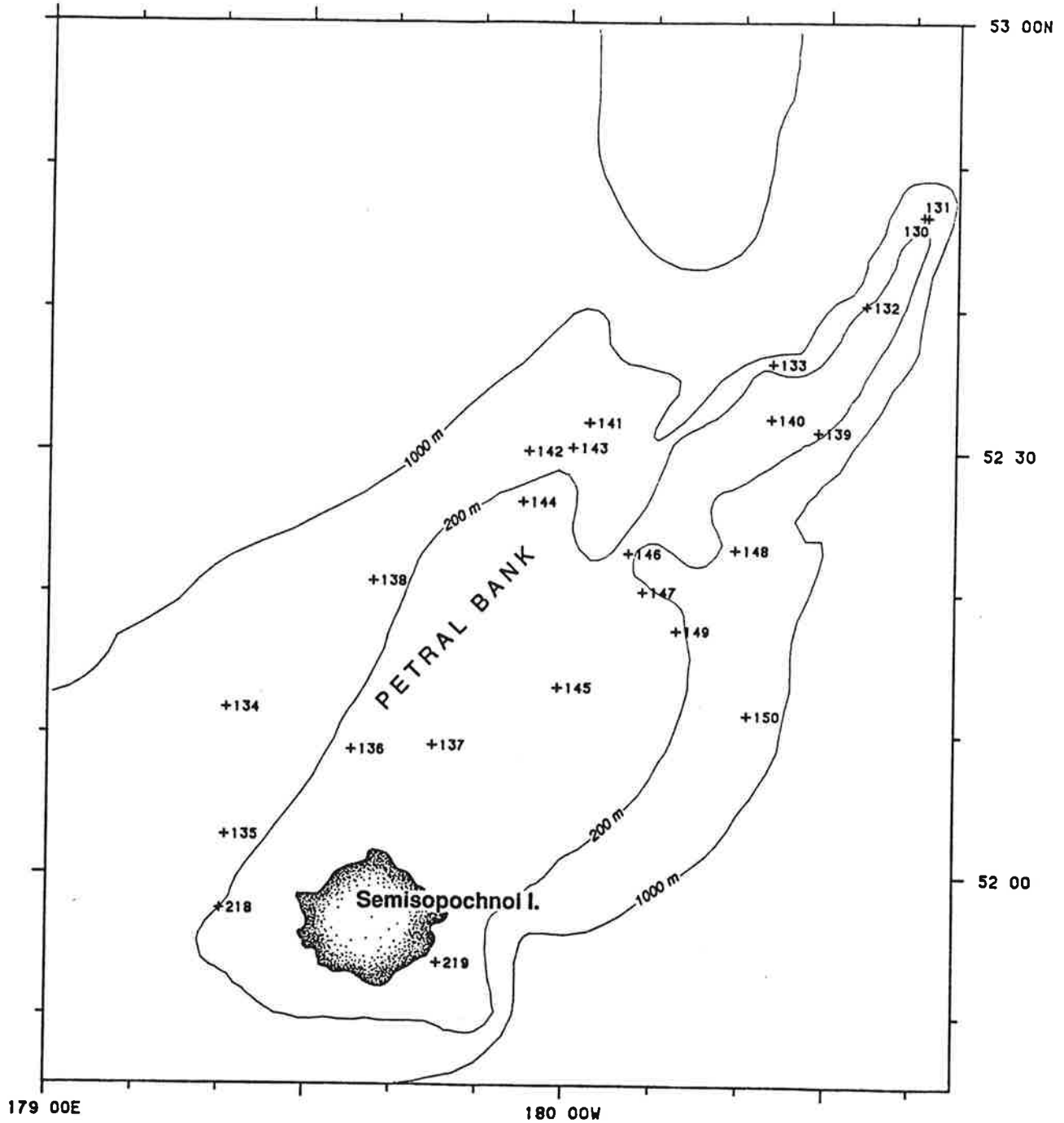


Figure 4.--Stations surveyed by the F/V *Ocean Hope 1* in the Petral Bank area (hauls 130-150, 218-219).

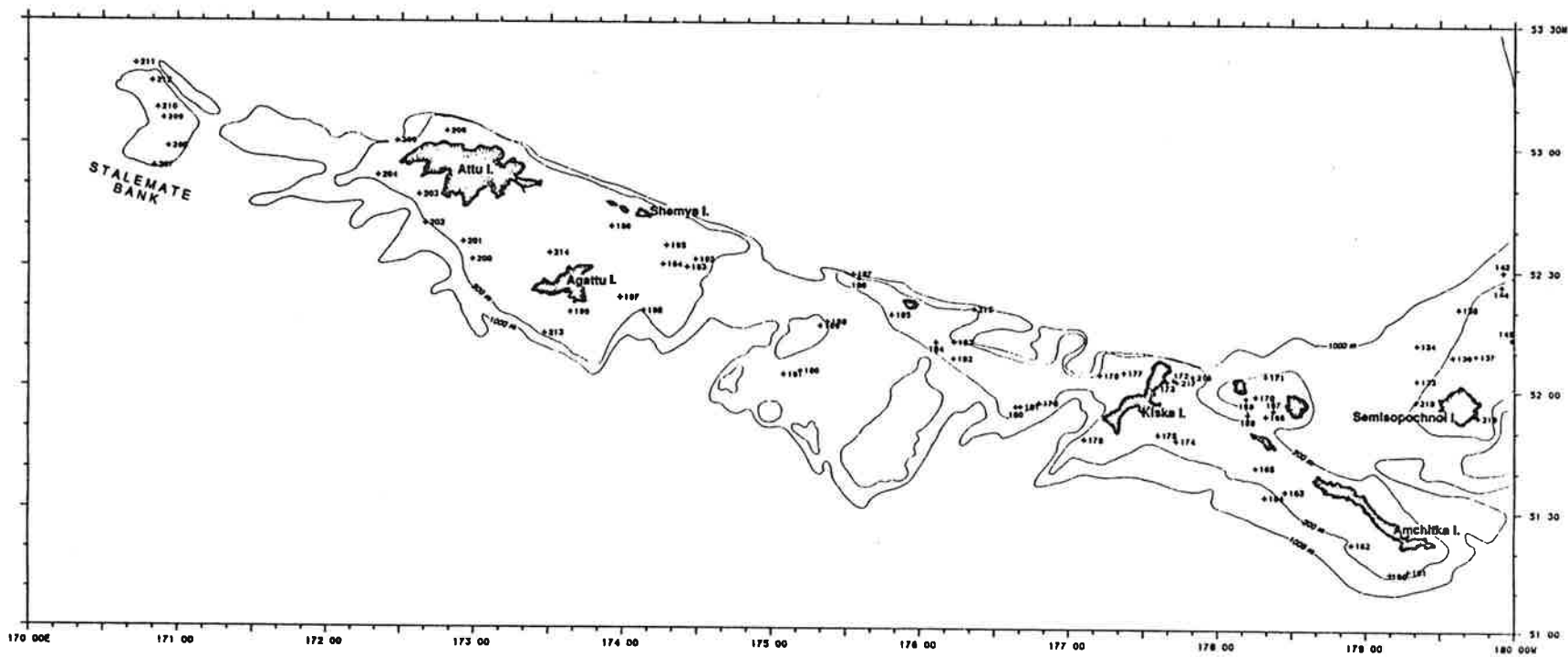


Figure 5.--Stations surveyed by the F/V *Ocean Hope 1* from Amchitka Island to Stalemate Bank (hauls 160-217) and western Petral Bank (hauls 218-219).

Section 1 (continued)

Fishing log for the *Ocean Hope 1*

- Summary listings of species catches by haul
 - Haul start latitude and longitude
 - Loran readings
 - Bottom depth in fathoms
 - Duration of tow in hundredths of an hour
 - Distance fished in nautical miles
 - Total catch weight in kilograms by species

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/19/91	7/20/91	7/20/91	7/20/91	7/20/91	7/20/91	7/21/91	7/21/91	7/21/91	7/21/91	7/22/91
LATITUDE START	54 7.1	54 53.5	54 40.3	54 29.5	54 24.3	54 24.8	54 20.8	54 13.4	54 13.9	54 13.5	54 12.9
LONGITUDE START	166 19.1	165 21.1	165 34.3	165 6.5	165 11.1	165 35.5	165 37.6	165 46.6	165 53.3	166 0.7	166 9.7
LATITUDE END	54 8.0	54 52.8	54 40.9	54 31.1	54 25.7	54 25.6	54 19.3	54 14.9	54 14.4	54 14.1	54 13.4
LONGITUDE END	166 21.4	165 21.8	165 31.8	165 6.6	165 10.0	165 33.1	165 37.9	165 47.1	165 55.6	165 58.2	166 7.7
LORAN START	34811.40	34617.00	18242.30	18225.60	18198.80	18172.90	18152.20	18107.30	18100.30	18088.10	18072.40
LORAN START	48364.30	48139.80	48178.10	48003.10	48022.10	48159.20	48164.80	48202.00	48238.80	48277.60	48324.30
LORAN END	34814.70	34612.70	18247.70	18231.90	18205.80	18179.20	18145.20	18113.30	18099.30	18094.40	18077.60
LORAN END	48376.70	48125.20	48164.80	48005.90	48017.70	48147.50	48164.00	48206.90	48252.50	48265.10	48314.40
GEAR DEPTH	53	72	160	40	92	51	43	45	26	24	92
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.52	0.50	0.53	0.49	0.50	0.41
DISTANCE FISHED	1.64	0.76	1.59	1.54	1.49	1.56	1.49	1.57	1.47	1.60	1.24
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	1.4	417.3	95.7	0.7	3.6	709.9	0.0	1287.1	0.0	0.9	482.6
PACIFIC COD	15.4	11.3	9.1	0.0	8.2	29.5	0.0	28.1	5.9	67.1	10.9
ATKA MACKEREL	0.7	0.0	0.0	0.0	0.0	0.0	4989.5	0.0	0.5	3.6	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
PAC OC PERCH	0.0	0.0	1.4	0.9	0.0	0.3	0.0	0.0	0.0	0.0	14.5
NORTHERN RCKFISH	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	3.6
SHORTRAKER RF	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 RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	16.3	5.0	11.3	2.1	30.9	7.1	0.0	7.0	3.9	6.4	9.0
OTHER RNDFFISH	0.0	0.0	5.4	0.1	1.0	15.0	0.0	2.5	111.9	5.9	0.1
ARROWTOOTH FL	70.5	27.7	19.1	0.0	498.0	3.2	0.0	42.4	0.0	0.0	41.7
KAMCHATKA FL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GREENLAND TBT	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	7.0	155.6	4.5	220.9	3.2	0.0	17.7	0.0	0.0	0.5
ROCK SOLE	53.1	16.8	0.0	12.7	17.9	5.9	0.0	78.9	189.4	402.6	1.4
REX SOLE	0.0	0.5	7.3	0.0	7.5	0.0	0.0	7.3	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
PAC HALIBUT	19.6	0.0	0.0	15.4	19.2	46.1	0.0	45.6	97.2	60.1	3.9
OTHER FLTFISH	0.0	0.5	0.0	1.2	0.5	0.0	0.0	6.4	6.4	0.0	0.0
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	177.0	486.0	306.2	37.7	807.7	820.0	4989.5	1523.4	415.1	546.6	568.1

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/22/91	7/22/91	7/22/91	7/22/91	7/23/91	7/23/91	7/23/91	7/23/91	7/24/91	7/24/91	7/24/91
LATITUDE START	54 5.3	54 8.8	54 6.6	54 3.9	54 2.3	53 48.3	53 45.4	53 43.9	53 43.6	53 39.0	53 42.2
LONGITUDE START	166 15.2	166 14.8	166 16.3	166 22.1	166 40.1	167 6.7	167 3.1	166 53.9	166 53.3	167 17.6	167 19.4
LATITUDE END	54 6.7	54 10.1	54 8.1	54 5.1	54 1.8	53 49.2	53 46.8	53 43.9	53 44.1	53 40.4	53 41.3
LONGITUDE END	166 14.8	166 15.5	166 16.6	166 22.7	166 37.6	167 7.8	167 4.4	166 53.9	166 55.7	167 18.3	167 20.7
LORAN START	18027.50	18045.00	18032.00	18009.60	17971.80	17850.10	17842.70	17852.50	17851.80	17779.50	17792.20
LORAN START	48339.40	48343.90	48347.10	48372.20	48460.60	48561.70	48536.00	48486.60	48482.40	48589.20	48606.50
LORAN END	18034.90	18050.00	18039.00	18014.60	17973.50	17852.50	17846.90	17852.50	17850.40	17785.20	17782.10
LORAN END	48339.70	48349.60	48352.00	48377.50	48447.00	48569.10	48546.00	48486.60	48496.10	48596.00	48611.80
GEAR DEPTH	46	67	52	44	44	18	30	55	109	48	49
DURATION IN HOURS	0.50	0.43	0.50	0.43	0.50	0.36	0.50	0.00	0.50	0.50	0.50
DISTANCE FISHED	1.50	1.20	1.60	1.28	1.54	1.09	1.52	0.00	1.53	1.44	1.59
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	5 /172	0 /172	0 /172	7 /172
POLLOCK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0
PACIFIC COD	5.4	68.9	142.4	104.8	689.5	0.0	0.0	0.0	8.6	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.7	3.6	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	10.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RCKFISH	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.1	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0
SHORTRAKER RF	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 RCKFISH	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	79.7	16.0	117.1	67.8	90.0	0.1	0.5	0.0	5.2	0.6	0.0
OTHER RNDFFISH	0.2	0.0	0.0	3.6	8.0	0.0	0.0	0.0	12.6	1.0	0.0
ARROWTOOTH FL	4.5	20.4	2.3	2.7	3.4	0.0	0.0	0.0	243.1	31.8	0.0
KAMCHATKA FL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GREENLAND TBT	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	2.3	0.0	113.4	1.6	0.0	0.0	260.4	1.2	0.0
ROCK SOLE	16.8	37.2	13.6	81.6	288.1	119.3	128.8	0.0	0.0	94.8	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.7	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
PAC HALIBUT	115.1	25.4	51.1	38.2	49.6	61.4	36.0	0.0	1.5	20.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	34.0	3.6	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	221.8	167.9	338.3	311.4	1245.6	216.4	168.9	0.0	599.8	150.0	0.0

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	7/24/91	7/24/91	7/25/91	7/25/91	7/25/91	7/25/91	7/25/91	7/26/91	7/26/91	7/26/91	7/26/91
LATITUDE START	53 38.2	53 37.7	53 31.4	53 31.4	53 33.9	53 35.7	53 22.9	53 21.3	53 22.9	53 6.8	52 56.1
LONGITUDE START	167 30.2	167 27.7	167 33.6	167 40.6	167 36.9	168 14.3	168 35.2	168 24.7	168 39.5	168 52.1	169 19.9
LATITUDE END	53 39.0	53 36.2	53 32.9	53 31.4	53 33.3	53 36.7	53 21.9	53 22.8	53 22.1	53 5.7	52 57.2
LONGITUDE END	167 27.9	167 27.8	167 33.6	167 38.0	167 38.5	168 12.3	168 33.3	168 23.8	168 37.9	168 54.0	169 18.0
LORAN START	17747.30	17750.80	17703.60	17687.40	17709.20	17627.40	17499.70	17520.10	17487.70	17361.30	17215.20
LORAN START	48646.10	48632.90	48643.20	48675.00	48665.20	48833.80	48885.00	48839.00	48901.90	48906.70	48979.60
LORAN END	17756.60	17742.30	17711.60	17693.80	17702.70	17638.10	17499.80	17530.70	17487.50	17349.70	17227.40
LORAN END	48637.40	48629.20	48647.30	48663.40	48671.00	48827.60	48874.80	48839.20	48893.80	48911.10	48975.60
GEAR DEPTH	70	50	44	56	199	67	49	5	80	63	222
DURATION IN HOURS	0.50	0.53	0.50	0.50	0.35	0.50	0.50	0.50	0.38	0.50	0.52
DISTANCE FISHED	1.58	1.56	1.51	1.54	1.07	1.52	1.51	1.58	1.21	1.54	1.59
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	2.3	0.0	0.0	0.1	3.6	0.3	0.0	0.0	0.0	0.0	4.1
PACIFIC COD	69.9	0.0	6.4	480.4	0.0	0.0	9.1	0.0	292.1	293.0	3.2
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.8	0.0
SABLEFISH	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	163.7	0.0	0.0	2.7	8.2	0.0	0.0	0.0	1.1	0.0	0.0
NORTHERN RCKFISH	70.3	0.0	0.0	6.4	0.0	0.0	0.2	0.0	0.0	0.3	0.0
ROUGH EYE RKFH	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	18.1
SHORTTRAKER RF	0.0	0.0	0.0	0.0	174.2	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	1.6	0.0	0.1	0.3	0.0	0.0	0.0	0.0
SCULPINS	66.3	0.5	4.5	238.6	0.9	8.6	1.6	0.0	22.5	1.8	33.6
OTHER RNDFISH	3.6	0.0	0.0	0.2	0.4	0.0	0.2	0.1	0.0	0.0	0.1
ARROWTOOTH FL	118.4	3.6	28.1	11.3	102.5	5.9	1.2	0.0	290.8	7.3	20.0
KAMCHATKA FL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3
GREENLAND TBT	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	175.3
FLATHEAD SOLE	127.5	5.0	8.6	2.7	7.7	0.9	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	196.4	66.2	127.0	47.2	0.0	1.8	33.1	5.4	0.0	59.0	0.0
REX SOLE	6.4	0.0	20.0	1.8	21.3	0.2	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	30.9	5.9	32.9	57.4	0.0	105.8	95.6	87.5	3.5	36.7	0.0
OTHER FLT FISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	55.3	0.0	0.0	1.4	0.0	14.5	0.0	0.0	8.2	22.7	0.9
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	314.3
TANNER CRAB	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	3.6	4.5	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	911.0	81.3	231.1	857.3	368.7	138.2	143.1	93.1	618.1	422.6	595.9

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	7/27/91	7/27/91	7/27/91	7/27/91	7/27/91	7/27/91	7/28/91	7/28/91	7/28/91	7/28/91	7/28/91
LATITUDE START	53 7.6	53 7.6	53 7.9	53 3.3	53 4.6	53 0.4	52 27.5	52 24.2	52 20.4	52 32.0	52 34.9
LONGITUDE START	169 53.6	169 59.1	169 58.9	169 56.4	170 9.1	170 21.7	170 7.8	170 33.5	170 39.5	170 37.7	170 37.4
LATITUDE END	53 7.3	53 7.7	53 8.0	53 4.3	53 5.3	53 1.0	52 28.8	52 25.1	52 19.9	52 32.1	52 35.6
LONGITUDE END	169 51.1	169 58.1	169 56.4	169 55.0	170 6.8	170 19.2	170 9.0	170 32.8	170 42.0	170 40.4	170 35.1
LORAN START	17164.40	17144.50	17147.00	17130.00		17021.20	16894.40	16780.00	16737.00	16804.20	16821.40
LORAN START	49129.50	49147.90		49225.70		49199.60	49060.20	49131.90	49139.50	49167.10	49174.10
LORAN END	17171.40	17148.60		17142.70	17003.70	17034.30	16896.70	16787.60	16724.10	16794.60	16834.60
LORAN END	49120.20	49144.60		49223.80	49166.20	49193.40	49067.80	49132.50	49145.20	49175.10	49169.20
GEAR DEPTH	150	240	240	82	99	120	105	217	119	62	47
DURATION IN HOURS	0.50	0.23	0.50	0.50	0.50	0.50	0.50	0.51	0.50	0.50	0.50
DISTANCE FISHED	1.52	0.64	1.51	1.33	1.58	1.62	1.40	1.03	1.62	1.62	1.57
PERFORMANCE / GEAR	7 /172	6 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172
POLLOCK	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
PACIFIC COD	111.6	0.0	0.0	0.0	0.0	94.8	0.0	0.0	74.8	0.0	358.3
ATKA MACKEREL	1.8	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	286.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	18.6	0.0	0.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	0.1
NORTHERN RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
ROUGHEYE RKFH	7.7	0.0	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RF	0.0	0.0	68.5	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 RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	17.2	0.0	8.2	0.0	0.0	2.3	0.1	0.0	1.1	1.2	16.2
OTHER RNDFISH	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.0	16.4
ARROWTOOTH FL	101.6	0.0	6.4	0.0	0.0	3.2	0.0	0.0	82.1	2.3	0.0
KAMCHATKA FL	1.8	0.0	100.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GREENLAND TBT	0.0	0.0	135.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.9	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.3	5.0
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	104.6	0.0	0.0	133.9	0.0	51.8	0.0	0.0	88.2	62.7	55.7
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	16.8	0.0	0.0	0.0	0.0	0.0	32.7	19.4	17.7
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.1	0.0	0.0	1.2	0.0	0.2	0.5	0.0	3.2	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	165.1	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	366.9	0.0	365.1	135.1	165.1	157.2	0.6	0.1	284.2	85.8	756.0

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	7/28/91	7/29/91	7/29/91	7/29/91	7/29/91	7/29/91	7/30/91	7/30/91	7/30/91	7/30/91	7/30/91
LATITUDE START	52 44.8	52 40.8	52 55.9	52 49.3	52 49.3	52 47.9	52 36.0	52 22.9	52 12.9	52 23.5	52 29.7
LONGITUDE START	170 35.7	170 49.7	171 21.3	171 22.6	171 28.6	171 42.4	171 32.5	171 48.9	172 10.9	172 13.7	172 20.8
LATITUDE END	52 44.6	52 41.6	52 56.1	52 49.9	52 50.5	52 48.4	52 37.5	52 24.3	52 14.3	52 22.1	52 28.5
LONGITUDE END	170 33.6	170 47.6	171 20.2	171 20.2	171 27.1	171 42.1	171 33.5	171 49.7	172 10.0	172 12.9	172 19.4
LORAN START	16882.00	16804.50	16756.70	16714.90	16689.40	16621.70	16600.90		16311.50	16352.20	16351.50
LORAN START	49197.00	49227.10	49360.30	49344.30	49360.30	49391.90	49331.60		49363.90	49499.60	49433.70
LORAN END	16891.71	16817.40	16762.90	16728.20	16702.20	16625.40	16604.70	16464.50	16323.20	16348.90	16351.80
LORAN END	49190.00	49222.90	49358.10	49339.30	49359.80	49392.80	49338.40	49342.80	49365.60	49493.80	49427.00
GEAR DEPTH	85	72	236	98	113	211	252	154	216	174	82
DURATION IN HOURS	0.42	0.51	0.23	0.50	0.47	0.17	0.51	0.50	0.51	0.49	0.50
DISTANCE FISHED	1.45	1.54	0.74	1.56	1.48	0.54	1.58	1.52	1.55	1.48	1.49
PERFORMANCE / GEAR	0 /172	0 /172	7 /172	5 /172	1 /172	6 /172	0 /172	0 /172	0 /172	1 /172	0 /172
POLLOCK	0.0	0.0	0.0	0.1	0.0	0.0	1.0	20.9	6.4	1224.2	4.5
PACIFIC COD	0.0	0.0	0.0	0.0	369.4	0.0	0.0	0.0	0.0	1.6	64.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
NORTHERN RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
ROUGHEYE RKFH	1.0	0.0	1.4	0.0	0.0	0.0	5.9	0.0	0.0	1.4	0.0
SHORTRAKER RF	0.6	0.0	3.4	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 RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	11.7	0.4	1.0	0.2	0.2	0.0	0.0	0.0	0.0	29.6	0.4
OTHER RNDFISH	0.5	0.1	0.1	0.1	0.1	0.0	1.7	0.0	0.0	0.4	0.0
ARROWTOOTH FL	1.6	0.0	0.7	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0
KAMCHATKA FL	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	18.6	0.0
GREENLAND TBT	0.0	0.0	0.0	0.0	0.0	0.0	22.7	0.0	5.6	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	1.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	2.3
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	123.7	123.5	0.0	56.5	56.5	0.0	0.0	0.0	0.0	0.0	6.3
OTHER FLTIFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	16.8	2.0	0.0	12.2	0.0	24.0	0.0	2.4	20.9	10.4
SHARKS	0.0	0.0	74.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.1	0.7	0.0	0.0	0.0	0.0	0.9	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	140.4	145.7	82.9	58.0	439.1	0.0	92.0	20.9	14.7	1299.4	88.6

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	7/31/91	7/31/91	7/31/91	7/31/91	7/31/91	7/31/91	8/ 1/91	8/ 1/91	8/ 1/91	8/ 2/91	8/ 2/91
LATITUDE START	52 37.4	52 33.9	52 28.2	52 24.4	52 16.7	52 12.8	52 32.1	52 28.2	52 26.1	52 24.9	52 18.8
LONGITUDE START	172 26.3	172 22.1	172 36.0	172 38.2	172 54.2	172 45.7	173 19.3	173 35.6	173 45.1	173 50.4	173 38.0
LATITUDE END	52 37.8	52 34.0	52 29.4	52 25.7	52 16.7	52 13.1	52 32.9	52 28.7	52 26.2	52 24.6	52 19.5
LONGITUDE END	172 23.8	172 24.9	172 34.4	172 36.6	172 52.1	172 48.3	173 16.9	173 33.4	173 42.6	173 47.7	173 40.2
LORAN START	16366.00	16367.00	16273.00	16242.90	16128.30	16149.30	16081.40	15979.60	15920.00	15886.90	15921.20
LORAN START	49467.70	49448.30	49464.20	49458.70	49472.80	49444.60	49565.80	49587.00	49599.40	49605.80	49567.10
LORAN END	16379.10	16354.70	16286.60	16256.70	16138.00	16138.70	16096.90	15993.40	15933.10	15899.60	15913.80
LORAN END	49463.10	49454.80	49463.90	49458.60	49468.30	49450.90	49563.30	49584.20	49594.80	49600.00	49573.00
GEAR DEPTH	228	116	242	138	143	98	116	111	130	72	221
DURATION IN HOURS	0.51	0.50	0.51	0.50	0.41	0.51	0.51	0.51	0.50	0.53	0.50
DISTANCE FISHED	1.58	1.67	1.53	1.60	1.26	1.62	1.60	1.52	1.56	1.68	1.51
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	18.1	0.0	0.0	21.3	2293.9	55.8	147.0	72.3	66.0	3.2	5.4
PACIFIC COD	0.0	52.2	0.0	38.1	6.6	592.6	11.8	364.3	348.6	63.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	1.6	43.8	74.8	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	70.5	0.0	68.0	863.3	3.2	1564.4	687.6	5041.2	0.0	0.0
NORTHERN RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	5.4	213.1	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	1.4	1.8	0.0	0.0	0.0	182.3	8.1	0.0	0.0	0.0
SHORTRAKER RF	7.7	0.0	18.6	0.0	0.0	0.0	10.0	0.0	0.0	0.0	3.6
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 RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	3.1	2.3	47.3	47.5	10.4	14.3	2.0	2.6	0.8	0.1
OTHER RNDFISH	0.0	0.6	1.5	0.0	0.1	0.2	62.1	19.0	0.0	0.0	0.2
ARROWTOOTH FL	1.8	10.7	3.6	49.9	4.1	0.0	8.6	8.6	104.8	23.4	2.7
KAMCHATKA FL	13.2	0.7	4.1	6.1	9.1	0.0	0.9	0.0	2.5	2.0	0.0
GREENLAND TBT	2.3	0.0	5.2	0.0	0.0	0.0	0.0	0.0	11.6	0.0	8.2
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
ROCK SOLE	0.0	16.1	0.0	45.4	2.7	8.4	0.0	0.0	0.0	31.8	0.0
REX SOLE	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
DOVER SOLE	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	47.1	0.0	61.2	0.0	13.2	0.0
OTHER FLTIFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	14.5	0.0	5.4	39.9	16.1	0.0	0.0	0.0	422.3	1.6	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	61.0	155.2	48.9	317.6	3287.2	792.6	2011.9	1436.2	6002.5	139.0	21.2

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/ 2/91	8/ 2/91	8/ 2/91	8/ 2/91	8/ 2/91	8/ 2/91	8/ 3/91	8/ 3/91	8/ 3/91	8/ 3/91	8/ 3/91
LATITUDE START	52 16.3	52 18.3	52 13.5	52 15.5	52 14.9	52 16.0	52 17.5	52 16.2	52 15.0	52 15.9	52 10.0
LONGITUDE START	173 42.1	173 29.2	173 25.6	173 11.6	173 3.0	172 52.8	173 7.6	173 9.6	172 59.5	172 54.2	173 5.5
LATITUDE END	52 16.9	52 17.8	52 15.0	52 15.9	52 14.8	52 16.0	52 17.8	52 16.6	52 15.1	52 15.9	52 10.1
LONGITUDE END	173 39.7	173 31.6	173 26.2	173 14.1	173 5.5	172 51.9	173 5.1	173 6.8	173 2.1	172 57.5	173 3.7
LORAN START	15888.60	15963.20	15957.80	16037.60	16076.70	16131.60	16067.00	16052.60	16093.40	16120.90	16040.30
LORAN START	49568.40	49548.80	49529.40	49506.30	49486.50	49461.80	49503.20	49503.50	49480.00	49472.50	49479.20
LORAN END	15903.70	15948.70	15962.20	16027.10	16063.50	16135.60	16080.70	16066.60	16081.70	16108.50	16049.80
LORAN END	49565.60	49552.20	49534.40	49512.30	49491.70	49466.00	49498.80	49499.10	49485.60	49477.50	49475.70
GEAR DEPTH	97	201	58	78	74	99	224	146	76	91	48
DURATION IN HOURS	0.51	0.50	0.50	0.50	0.50	0.17	0.50	0.50	0.50	0.50	0.33
DISTANCE FISHED	1.60	1.57	1.55	1.55	1.59	0.53	1.56	1.76	1.56	1.51	1.12
PERFORMANCE / GEAR	0 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	35.4	4.5	0.7	6.4	0.3	2218.1	13.4	31.3	0.4	1685.1	0.9
PACIFIC COD	192.8	18.8	5.4	42.6	10.4	39.9	0.0	44.0	88.0	165.6	63.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	2.7
SABLEFISH	0.0	2.3	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0
PAC OC PERCH	3.6	24.0	19.5	14.1	0.0	0.0	0.0	30.4	1.1	10.4	2.3
NORTHERN RCKFISH	0.5	0.0	1.6	4.8	0.0	0.0	0.0	0.5	0.0	0.0	2.0
ROUGHEYE RKFH	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RF	0.0	13.2	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 RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0
SCULPINS	0.0	10.4	0.1	10.5	0.2	10.8	6.1	12.7	9.7	38.1	27.9
OTHER RNDFISH	0.0	5.5	4.9	7.9	0.0	0.0	0.5	0.6	0.0	0.0	13.6
ARROWTOOTH FL	5.9	4.1	11.8	17.2	31.3	0.5	3.9	3.6	29.5	12.7	1.4
KAMCHATKA FL	0.3	6.8	0.0	2.7	1.8	0.0	3.6	0.0	0.0	0.0	0.0
GREENLAND TBT	0.0	18.6	0.0	0.0	0.0	0.0	180.1	0.0	0.0	0.0	0.0
FLATHEAD SOLE	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.6	0.0	0.0
ROCK SOLE	1.3	0.0	6.4	1.1	7.7	0.5	0.0	7.3	31.8	15.9	27.2
REX SOLE	1.6	6.4	0.5	0.0	0.0	0.0	3.6	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	27.4	0.0	0.0	0.0	0.0	0.0	3.3	7.2	5.2
OTHER FLTIFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.5	11.8	0.0	7.7	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.7
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	248.7	117.8	78.2	107.4	51.7	2269.8	221.1	143.0	167.3	1959.9	227.0

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	8/ 4/91	8/ 4/91	8/ 4/91	8/ 4/91	8/ 4/91	8/10/91	8/10/91	8/10/91	8/11/91	8/11/91	8/11/91
LATITUDE START	52 9.7	52 4.3	52 3.7	51 57.6	51 55.4	51 53.8	51 54.5	51 52.7	51 50.1	51 50.1	51 51.9
LONGITUDE START	172 41.1	172 33.6	172 27.3	172 37.9	172 55.3	173 17.3	173 42.3	173 56.2	173 56.7	174 0.0	174 3.8
LATITUDE END	52 10.8	52 5.8	52 5.9	51 57.8	51 55.6	51 53.1	51 54.1	51 53.6	51 50.7	51 49.4	51 51.7
LONGITUDE END	172 43.0	172 33.0	172 27.0	172 37.0	172 52.6	173 20.3	173 40.2	173 54.4	173 54.3	173 58.9	174 1.3
LORAN START	16156.30	16164.20	16193.30	16111.10	16020.70	15905.60	15784.30	15706.20	15691.90	15675.40	15664.30
LORAN START	49425.20	49393.50	49381.20	49387.70	49418.90	49461.70	49514.20	49536.20	49530.50	49537.00	49548.40
LORAN END	16152.80	16174.70	16203.30	16199.90	16033.60	15888.10	15793.90	15719.40	15707.20	15677.30	15675.40
LORAN END	49432.80	49396.50	49383.50	49399.90	49414.20	49466.20	49508.80	49534.80	49527.70	49533.10	49543.20
GEAR DEPTH	79	85	89	136	154	201	70	82	159	213	83
DURATION IN HOURS	0.50	0.50	0.50	0.25	0.51	0.50	0.50	0.50	0.50	0.32	0.50
DISTANCE FISHED	1.61	1.61	1.48	0.56	1.67	1.96	1.38	1.40	1.64	1.02	1.56
PERFORMANCE / GEAR	1 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	7 /172	0 /172
POLLOCK	0.0	0.0	0.0	317.1	156.5	130.6	0.2	0.0	23.4	1.8	0.0
PACIFIC COD	1692.2	3.6	8.6	3.6	18.1	50.3	20.4	14.5	15.0	0.0	139.3
ATKA MACKEREL	858.4	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	4.5	0.0	12.9	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.8	55.8	433.2	59.4	1902.7	0.0	13.2	0.0	388.3
NORTHERN RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	272.2	0.0	0.3	0.0	29.9
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	2.0	430.7	0.0	0.0	6.1	20.4	0.0
SHORTRAKER RF	0.0	0.0	0.0	0.0	6.6	51.5	0.0	0.0	9.8	55.6	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	1.7	3.0	1.4	3.4	14.0	39.6	2.0	0.2	2.3	1.9	2.4
OTHER RNDFISH	0.0	0.4	0.0	0.1	0.0	0.0	0.3	0.2	0.0	0.0	5.9
ARROWTOOTH FL	0.0	0.0	0.0	9.1	84.8	5.0	1.8	1.1	1.4	3.4	4.1
KAMCHATKA FL	0.0	0.0	0.0	3.2	0.0	4.1	0.0	0.0	0.0	0.0	0.3
GREENLAND TBT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	80.8	7.3	14.5	4.1	0.0	0.0	1.1	1.1	0.0	0.0	1.4
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	436.8	56.2	470.8	18.7	0.0	129.9	48.9	12.0	0.0	0.0	25.5
OTHER FLTIFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	16.9	31.8	0.0	7.2	21.8	0.0	15.4	0.0	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	96.2	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	327.9	2.4	0.0	0.1	18.6	47.2
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
TOTAL CATCH	3086.7	102.3	496.1	426.8	737.0	1341.3	2277.0	29.2	71.5	107.1	644.4

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	8/11/91	8/11/91	8/11/91	8/12/91	8/12/91	8/12/91	8/12/91	8/13/91	8/13/91	8/13/91	8/13/91
LATITUDE START	51 57.6	51 57.9	52 1.0	52 12.1	52 19.0	52 22.6	52 15.4	52 18.9	52 18.5	52 7.5	52 9.1
LONGITUDE START	173 49.3	173 59.2	174 5.0	173 51.6	173 56.9	174 31.0	174 24.9	174 40.5	174 47.0	175 9.9	175 23.3
LATITUDE END	51 57.5	51 57.9	51 59.7	52 12.2	52 17.6	52 22.7	52 14.9	52 17.9	52 17.2	52 8.0	52 8.4
LONGITUDE END	173 49.5	173 56.3	174 4.0	173 54.2	173 58.1	174 29.1	174 27.3	174 42.6	174 48.4	175 7.9	175 21.0
LORAN START	15762.40	15716.50	15697.50	15819.30	15825.70	15661.50	15660.20	15592.20	15554.90	15380.60	15313.40
LORAN START	49535.40	49553.80	49573.30	49575.30	49602.50	49669.90	49643.10	49676.20	49685.70	49695.00	49718.20
LORAN END	15762.30	15729.50	15698.50	15806.50	15812.80	15676.40	15645.40	15617.90	15542.20	15396.00	15323.30
LORAN END	49535.00	49549.00	49567.50	49580.40	49601.30	49666.30	49646.00	49718.40	49684.80	49692.90	49713.30
GEAR DEPTH	40	57	48	93	34	66	79	80	250	56	82
DURATION IN HOURS	0.08	0.50	0.52	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.12	1.58	1.51	1.60	1.57	1.59	1.53	1.60	1.49	1.55	1.59
PERFORMANCE / GEAR	6 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.2	0.0	14.5	0.1	0.2	109.8	1.1	0.0	0.5	0.0
PACIFIC COD	0.0	8.4	7.5	29.5	41.7	22.7	3.6	111.1	0.0	17.5	353.8
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.8	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
PAC OC PERCH	0.0	0.0	0.0	0.5	0.1	0.0	0.0	4.1	0.6	0.2	327.0
NORTHERN RCKFISH	0.0	0.0	0.0	0.8	0.0	0.0	0.2	1.4	0.0	0.0	7.7
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RF	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 RCKFISH	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	0.0	0.0	6.7	10.5	19.1	1.7	4.1	0.0	2.6	9.1
OTHER RNDFISH	0.0	0.0	0.0	0.5	0.0	0.8	0.6	0.0	1.1	0.1	0.2
ARROWTOOTH FL	0.0	0.0	0.4	86.2	17.2	2.3	72.6	7.7	0.0	41.7	61.7
KAMCHATKA FL	0.0	0.0	0.0	14.5	0.7	2.9	13.6	14.1	0.0	1.6	3.4
GREENLAND TBT	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	107.3	0.0	0.0	131.3	7.3	0.0	0.1	0.0
ROCK SOLE	0.0	7.5	21.5	0.0	174.9	3.6	0.3	134.7	0.0	32.2	36.7
REX SOLE	0.0	0.0	0.0	4.8	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	65.3	28.5	0.0	40.6	17.8	13.5	15.1	0.0	53.6	26.9
OTHER FLTIFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	5.9	7.3	6.8	3.4	0.0	1.1	6.4	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.4	0.1	0.0	6.4	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.5	0.0	0.0	1.9	0.2	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.2	0.4	0.0	0.4	35.2	1.6	0.3	0.0	4.8	81.2
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
TOTAL CATCH	0.0	87.4	65.5	272.8	290.4	104.5	358.5	307.9	1.7	155.6	907.9

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	8/13/91	8/13/91	8/14/91	8/14/91	8/14/91	8/14/91	8/14/91	8/14/91	8/15/91	8/15/91	8/15/91
LATITUDE START	52 3.7	52 4.5	51 53.7	51 48.2	51 48.9	51 45.0	51 53.6	51 45.1	51 48.0	51 48.1	51 39.7
LONGITUDE START	175 29.9	175 15.7	174 31.1	174 41.4	174 57.6	175 2.4	175 13.9	175 28.8	175 35.9	175 43.7	176 16.5
LATITUDE END	52 5.3	52 4.0	51 53.8	51 48.3	51 48.9	51 45.1	51 53.4	51 45.6	51 48.1	51 48.6	51 40.1
LONGITUDE END	175 30.5	175 18.1	174 33.6	174 38.4	174 55.1	175 0.0	175 11.4	175 26.4	175 33.5	175 41.3	176 14.3
LORAN START	15253.70	15335.90	15529.00	15453.30	15367.40	15325.10	15299.20	15182.40	15154.30	15111.80	14893.30
LORAN START	49715.90	49697.00	49600.20	49604.00	49633.30	49632.20	49670.00	49673.40	49690.60	49701.70	49728.80
LORAN END	15256.80	15320.40	15516.20	15466.60	15380.80	15338.60	15311.60	15197.40	15168.80	15127.10	14908.30
LORAN END	49720.00	49699.60	49604.60	49600.20	49629.10	49628.40	49665.90	49671.20	49687.40	49699.20	49726.10
GEAR DEPTH	39	51	70	177	144	275	82	161	108	96	103
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	1.59	1.58	1.53	1.50	1.58	1.55	1.57	1.55	1.53	1.59	1.43
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.1	0.0	1.6	10.7	220.0	0.0	0.2	21.8	360.6	353.3	128.8
PACIFIC COD	0.0	12.2	142.0	0.0	10.9	0.0	15.4	20.9	62.6	153.3	108.9
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	3.6	0.0	2451.1	0.0	2.2	0.0	0.0	0.0
PAC OC PERCH	2.0	0.5	9.1	38.8	55.8	0.0	0.0	14.1	4.3	3.9	2.0
NORTHERN RCKFISH	0.0	0.0	3.9	0.4	0.8	0.0	0.0	1.4	0.0	0.0	0.6
ROUGHEYE RKFH	0.0	0.0	0.0	29.0	4.3	0.0	0.0	1.3	0.0	0.0	0.0
SHORTRAKER RF	0.0	0.0	0.0	4.3	0.0	10.0	0.0	11.3	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	18.1	0.0	5.4	0.0	1.1	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	11.1	17.9	22.3	3.7	0.2	0.1	1.1	0.4	0.8	1.7	0.4
OTHER RNDFFISH	0.3	0.0	0.6	3.1	0.4	1.1	2.8	0.2	0.3	0.4	0.1
ARROWTOOTH FL	0.0	46.3	5.0	7.3	6.8	0.0	15.0	1.8	14.5	16.3	11.1
KAMCHATKA FL	0.0	0.5	0.0	8.2	0.0	4.5	0.7	1.5	0.0	1.4	1.4
GREENLAND TBT	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.4	7.5	0.0	0.0
ROCK SOLE	2.5	32.2	18.6	4.1	20.4	0.6	19.7	18.6	38.1	22.7	8.2
REX SOLE	0.0	0.0	0.0	17.2	5.9	0.0	0.0	9.1	5.0	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	68.3	47.6	88.1	0.0	5.2	0.0	17.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	5.2	0.0	12.2	9.1	0.0	4.8	0.0	11.8	1.1	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	5.7	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	29.4	1.1	257.6	2.7	0.0	0.0	0.1	1.6	0.0	0.0	6.5
CORAL	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	119.0	158.4	561.2	167.0	331.0	2483.3	72.3	119.3	494.9	553.0	267.9

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	8/16/91	8/16/91	8/16/91	8/16/91	8/16/91	8/17/91	8/17/91	8/17/91	8/18/91	8/18/91	8/18/91
LATITUDE START	51 37.2	51 36.8	51 53.9	51 59.6	51 57.1	51 54.9	51 57.8	51 56.0	51 38.7	51 36.2	51 35.6
LONGITUDE START	176 35.0	176 21.4	176 25.4	176 20.5	176 30.9	176 52.1	176 48.7	177 2.1	177 7.8	177 31.2	177 44.8
LATITUDE END	51 36.4	51 36.3	51 53.0	51 59.2	51 58.6	51 55.8	51 56.4	51 54.7	51 38.1	51 36.2	51 35.0
LONGITUDE END	176 37.0	176 23.8	176 27.4	176 23.1	176 30.9	176 53.0	176 50.0	177 0.5	177 10.2	177 28.6	177 46.2
LORAN START	14779.00	14855.20	14898.10	14949.20	14878.80	14748.20	14777.30	14692.30	14595.30	14449.20	14367.00
LORAN START	49747.10	49728.80	49769.30	49774.60	49783.10	34963.70	34964.00	34952.20	34959.80	34938.70	34925.60
LORAN END	14764.90	14839.30	14882.90	14932.20	14884.90	14745.30	14764.60	14697.40	14579.30	14464.50	14354.90
LORAN END	49747.90	49730.90	49770.10	49777.40	49786.30	34961.70	34964.00	34954.60	34958.20	34941.10	34924.60
GEAR DEPTH	78	137	82	80	39	101	50	54	103	130	155
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.40	0.50	0.50	0.50	0.50	0.41
DISTANCE FISHED	1.46	1.61	1.56	1.65	1.50	1.10	1.57	1.66	1.60	1.65	1.60
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.2	75.7	32.7	77.1	0.0	97.1	0.0	0.1	8.8	315.2	118.4
PACIFIC COD	89.4	76.2	274.4	119.3	30.4	472.2	4.1	108.0	142.9	59.4	28.8
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	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
PAC OC PERCH	96.6	34.5	0.0	0.2	0.0	5016.0	0.9	0.0	0.0	0.0	0.0
NORTHERN RCKFISH	13.6	2.5	0.0	0.0	0.0	16.0	0.0	0.0	0.0	2.5	0.0
ROUGH EYE RKFH	26.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
SHORTTRAKER RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	8.2
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
OTHER RCKFISH	1.8	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
SCULPINS	8.6	5.6	1.8	6.8	4.5	4.1	1.6	26.4	22.2	7.9	1.5
OTHER RND FISH	4.6	0.2	1.3	0.0	0.5	0.5	0.0	0.0	0.2	1.1	15.1
ARROWTOOTH FL	9.8	0.0	63.5	18.6	25.4	39.0	0.0	8.2	17.9	5.4	12.2
KAMCHATKA FL	0.1	0.0	22.2	11.3	1.1	0.0	0.0	0.5	6.1	0.2	0.4
GREENLAND TBT	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	89.1	1.6	0.0	0.0	0.0	0.0	0.0	2.3	0.3
ROCK SOLE	0.0	0.0	0.6	19.5	207.3	33.1	30.6	25.9	32.7	13.6	4.5
REX SOLE	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	6.3	7.4	33.4	68.0	10.2	139.8	54.0	34.2	9.6	13.4	6.1
OTHER FLT FISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	1.6	2.0	0.0	8.2	4.1	0.0	0.0	6.1	0.9	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	2.0	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	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.1	0.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	64.0	122.0	10.0	2.7	1.3	43.1	0.9	0.1	0.9	52.2	123.8
CORAL	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	321.4	338.8	535.9	325.9	288.8	5866.2	92.1	203.2	248.9	807.4	381.1

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	8/18/91	8/18/91	8/18/91	8/19/91	8/19/91	8/19/91	8/19/91	8/19/91	8/20/91	8/20/91	8/20/91
LATITUDE START	51 46.8	51 47.5	51 52.4	51 45.9	51 44.7	51 37.9	51 35.9	51 40.6	52 46.6	52 46.5	52 40.3
LONGITUDE START	177 28.0	177 36.4	177 47.1	178 16.4	178 9.8	178 9.4	178 13.3	178 18.6	179 19.0	179 18.5	179 25.6
LATITUDE END	51 46.1	51 47.0	51 52.3	51 47.2	51 43.8	51 39.3	51 37.3	51 40.0	52 46.1	0 0.0	52 39.4
LONGITUDE END	177 30.2	177 38.7	177 44.8	178 15.8	178 8.2	178 9.8	178 14.4	178 18.0	179 19.8	0 0.0	179 26.4
LORAN START	14505.90	14458.30	14410.60	14211.10	14247.00	14227.30	14197.00	14180.40	14035.70	14036.20	13968.60
LORAN START	34933.80	34924.10	34908.40	34882.20	34891.30	34898.00	34895.60	34885.30	34734.60	34735.80	34735.30
LORAN END	14490.10	14442.70	14424.70	14218.90	14254.00	14229.50	14195.30	14182.40	14027.70	14028.60	13960.30
LORAN END	34931.90	34922.30	34911.00	34882.20	34893.70	34896.20	34893.40	34886.70	34734.00	34734.80	34735.40
GEAR DEPTH	43	67	65	389	48	49	75	146	135	80	74
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.45	0.47	0.50	0.25	0.25	0.25	0.25
DISTANCE FISHED	1.55	1.52	1.42	1.34	1.36	1.39	1.49	0.74	0.74	0.67	1.01
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172
POLLOCK	0.1	0.1	0.2	5.2	0.0	0.0	0.0	220.4	26.3	1.1	0.0
PACIFIC COD	0.0	13.2	15.4	0.0	49.4	73.0	332.0	11.3	0.0	29.5	736.2
ATKA MACKEREL	0.0	0.0	0.1	0.0	1.6	1340.9	9047.3	0.0	0.0	0.0	3264.2
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.1	0.0	11.5	38.6	1473.7	149.7	744.4
NORTHERN RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	140.4	0.2	0.0	5.4	1628.6
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	27.7	2.0	1.8
SHORTRAKER RF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	5.7
SCULPINS	0.8	5.7	2.8	2.8	11.8	88.0	1.3	6.5	14.3	2.7	0.0
OTHER RNDFFISH	0.0	0.4	0.2	0.5	0.4	3.7	0.0	0.2	42.1	29.9	198.2
ARROWTOOTH FL	2.0	29.0	24.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0
KAMCHATKA FL	0.0	2.5	2.6	0.0	0.0	0.0	0.0	6.8	35.8	7.7	0.0
GREENLAND TBT	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	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	19.5	167.8	26.8	0.0	6.6	14.1	3.1	4.5	0.3	0.6	0.4
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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	10.8	53.8	26.9	12.6	33.1	90.7	52.9	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	7.7	14.7	0.0	0.0	7.5	20.0	0.0	0.0	11.3	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	2.3	0.0	2.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	8.2	2.0	1.3	0.0	198.3	2502.9	81.7	4.3	10.0	7.7	0.0
CORAL	0.0	0.0	0.0	0.0	3.4	6.8	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	41.3	283.0	115.0	21.1	304.7	4127.7	9696.5	306.7	1664.2	249.8	6579.4

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	8/20/91	8/23/91	8/23/91	8/23/91	8/23/91	8/23/91	8/24/91	8/24/91	8/24/91	8/24/91	8/24/91
LATITUDE START	52 36.2	52 11.8	52 2.8	52 8.9	52 9.2	52 20.8	52 31.4	52 32.3	52 32.0	52 30.0	52 30.3
LONGITUDE START	179 36.5	179 20.6E	179 20.6E	179 35.2E	179 44.6E	179 37.6E	179 31.2	179 36.6	179 57.5	179 55.6E	179 59.3
LATITUDE END	52 36.1	52 13.8	52 3.5	52 10.4	52 9.8	52 19.1	52 30.9	52 32.6	52 30.6	52 30.3	52 30.1
LONGITUDE END	179 36.6	179 21.7E	179 22.8E	179 35.9E	179 45.4E	179 38.1E	179 32.3	179 35.2	179 56.2	179 58.1E	179 58.1E
LORAN START	13883.60	13394.90	13368.40	13480.20	13541.80	13533.20	13900.00	13868.10	13731.60	13680.50	13714.00
LORAN START	34727.00	34681.30	34693.50	34703.40	34715.00	34689.50	34740.60	34732.20	34705.60	34699.30	34705.60
LORAN END	13881.30	13405.90	13384.90	13489.70	13548.70	13530.40	13890.50	13878.50	13735.40	13698.10	13697.30
LORAN END	34726.90	34680.50	34695.20	34702.30	34715.40	34692.60	34739.70	34733.70	34709.30	34704.10	34702.50
GEAR DEPTH	68	230	153	74	48	134	69	51	214	160	150
DURATION IN HOURS	0.12	0.50	0.50	0.50	0.23	0.55	0.28	0.25	0.50	0.50	0.50
DISTANCE FISHER	0.19	1.59	1.59	1.59	0.74	1.74	0.92	0.91	1.62	1.60	1.52
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	9.5	0.0	83.9	4.1	0.0	12.2	10.4	0.0	0.6	13.2	20.2
PACIFIC COD	147.9	0.0	0.0	151.5	19.1	0.0	118.8	152.4	0.0	0.0	0.0
ATKA MACKEREL	444.1	0.0	0.0	39.0	805.1	0.3	3.4	1465.3	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0
PAC OC PERCH	210.9	0.0	88.5	0.0	0.0	164.2	0.0	0.0	0.7	14.1	16.3
NORTHERN RCKFISH	135.6	0.0	0.0	0.0	0.0	0.4	0.0	240.9	0.1	0.5	1.1
ROUGHEYE RKFH	0.0	6.1	5.4	0.0	0.0	0.0	0.0	0.0	26.1	4.5	1.4
SHORTRAKER RF	0.0	92.5	12.0	0.0	0.0	0.0	0.0	0.0	41.5	0.0	0.0
SHORTSPINE TH	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	26.3	30.4	62.6
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	7.4	0.1	23.6	7.6	2.3	42.3	7.0	1.0	0.1	6.6	10.4
OTHER RNDFISH	0.0	31.2	2.1	0.2	0.1	0.3	0.4	5.6	2.4	7.3	2.7
ARROWTOOTH FL	0.0	10.4	0.0	0.5	0.0	0.0	0.0	0.0	9.5	6.8	0.0
KAMCHATKA FL	0.0	139.0	108.9	0.0	0.0	9.1	1.6	0.0	18.1	36.7	35.8
GREENLAND TBT	0.0	79.8	1.8	0.0	0.0	0.0	83.0	0.0	30.8	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	0.5	6.8	30.4	7.0	81.2	0.5	1.4	0.0	0.9	0.0
REX SOLE	0.0	4.5	0.0	0.0	0.0	3.4	0.0	0.0	6.8	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	0.0	0.0	0.0	84.8	8.8	11.1	0.0	4.9	0.0	0.0	15.2
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	26.9	2.6	35.8	6.4	5.2	5.9	0.0	0.0	2.4	1.8
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	25.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	225.9	0.0	0.7	54.0	1163.0	2.5	6.4	34.9	0.1	3.6	5.0
CORAL	2.5	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
TOTAL CATCH	1183.9	403.7	336.4	433.8	2011.9	332.2	237.5	1906.5	167.2	128.0	173.8

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	8/24/91	8/25/91	8/25/91	8/25/91	8/25/91	8/25/91	8/25/91	8/26/91	8/31/91	8/31/91	8/31/91
LATITUDE START	52 26.4	52 13.3	52 22.8	52 20.1	52 23.1	52 17.4	52 11.4	51 40.0	51 39.9	51 36.8	51 38.9
LONGITUDE START	179 54.9E	179 59.1E	179 52.9	179 51.2	179 40.6	179 47.3	179 39.1	178 53.9	178 25.4	178 25.3	178 36.4
LATITUDE END	52 25.6	52 12.4	52 21.4	52 20.0	52 22.3	52 18.2	52 12.9	51 39.0	51 39.7	51 37.3	51 39.2
LONGITUDE END	179 57.2E	179 59.2E	179 54.0	179 49.9	179 40.9	179 47.6	179 39.0	178 49.5	178 27.5	178 27.0	178 35.1
LORAN START	13664.10	13647.60	13729.60	13731.80	13809.80	13747.30	13780.00	13985.80	14137.40	14127.50	14067.30
LORAN END	34703.50	34727.70	34724.60	34730.30	34740.00	34739.30	34757.10	34855.00	34878.10	34881.30	34867.80
LORAN END	13675.90	13645.50	13718.00	13739.60	13805.60	13747.80	13785.80	13988.30	14123.40	14119.10	14074.70
LORAN END	34707.50	34729.20	34725.20	34731.70	34740.70	34737.90	34755.00	34853.40	34876.10	34878.90	34868.60
GEAR DEPTH	96	39	95	94	117	94	195	381	223	91	102
DURATION IN HOURS	0.50	0.33	0.50	0.25	0.25	0.25	0.50	1.00	0.43	0.50	0.25
DISTANCE FISHED	1.60	1.00	1.55	0.79	0.79	0.81	1.54	2.89	1.36	1.17	0.87
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	7 /172	0 /172	0 /172	1 /172
POLLOCK	10.0	0.0	462.7	771.1	33.1	3.9	0.0	0.0	15.9	3739.4	959.8
PACIFIC COD	0.0	218.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	739.1	64.4
ATKA MACKEREL	0.6	565.6	0.0	148.3	0.0	0.3	0.0	0.0	0.0	1577.7	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	7.9	0.0	0.0
PAC OC PERCH	0.2	0.0	4452.2	5.9	1507.3	1.8	0.8	0.0	0.0	0.0	10.4
NORTHERN RCKFISH	0.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	27.7	2.3	3.6	0.0	0.0
SHORTRAKER RF	0.0	0.0	0.0	0.0	0.0	0.0	50.8	51.3	149.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	10.4	26.3	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	1.8	9.2	8.7	13.7	13.9	0.3	1.2	4.8	0.0	6.3	2.3
OTHER RNDFFISH	0.7	1.3	0.5	1.1	0.8	0.1	1.4	10.4	3.4	0.0	0.8
ARROWTOOTH FL	14.1	0.0	23.6	20.9	0.0	7.7	9.5	0.0	30.8	0.0	11.8
KAMCHATKA FL	6.8	0.0	8.6	6.4	0.7	2.9	12.7	17.7	142.4	0.0	10.9
GREENLAND TBT	0.0	0.0	5.0	0.0	0.0	0.0	6.8	2.7	56.7	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	1.7	38.8	25.4	48.5	0.0	3.1	0.0	0.0	3.2	14.5	10.6
REX SOLE	0.0	0.0	1.6	8.6	0.0	0.0	2.5	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	32.0	34.3	0.0	32.9	16.2	0.0	0.0	44.9	193.5	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.6	0.1	10.0	0.0	13.6	0.0	0.5	7.6	121.6	79.8	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	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	2.7	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	0.0	0.0	1.9	0.0	0.0	1.1	3.6	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	5.6	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	7.3	1506.5	5.0	1.4	17.2	1.2	2.0	8.5	0.0	0.0	0.0
CORAL	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	50.1	2372.8	5044.7	1025.8	1621.9	40.3	126.4	156.7	583.1	6350.3	1072.5

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	155	156	157	158	159	160	161	162	163	164	165
MONTH/DAY/YEAR	8/31/91	9/ 1/91	9/ 2/91	9/ 2/91	9/ 2/91	9/ 3/91	9/ 3/91	9/ 3/91	9/ 3/91	9/ 3/91	9/ 4/91
LATITUDE START	51 36.8	51 11.2	51 29.1	51 29.4	51 30.5	51 14.8	51 15.5	51 22.1	51 35.2	51 33.8	51 41.1
LONGITUDE START	178 50.3	179 1.9	178 37.3	178 30.8	178 39.4	179 9.7E	179 17.1E	178 54.1E	178 27.1E	178 18.9E	178 15.1E
LATITUDE END	51 37.0	51 12.3	51 28.6	51 29.3	51 31.0	51 14.7	51 15.5	51 21.3	51 34.7	51 33.3	51 41.0
LONGITUDE END	178 49.6	179 0.4	178 35.5	178 33.1	178 37.1	179 11.9E	179 15.4E	178 56.0E	178 27.2E	178 20.6E	178 15.7E
LORAN START	13977.60	13833.90	14032.00	14071.50	14023.60	13186.60	13233.20	13105.60	12961.70	12907.60	12897.50
LORAN START	34854.40	34865.90	34875.50	34882.00	34871.60	34741.40	34748.80	34714.40	34665.00	34656.90	34642.60
LORAN END	13982.80	13845.90	14041.00	14058.20	14039.00	13200.40	13223.00	13115.40	12962.90	12917.40	12901.00
LORAN END	34855.00	34866.60	34877.70	34879.50	34873.80	34744.00	34747.30	34717.40	34666.30	34659.70	34643.40
GEAR DEPTH	190	103	140	120	94	140	80	92	84	285	0
DURATION IN HOURS	0.00	0.50	0.50	0.50	0.50	0.50	0.17	0.50	0.25	0.50	0.13
DISTANCE FISHED	0.52	1.42	1.19	1.39	1.50	1.40	1.04	1.43	0.57	1.17	0.38
PERFORMANCE / GEAR	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	6 /172
POLLOCK	0.0	240.4	96.2	18.6	15.4	670.5	382.8	5.9	8.6	0.0	0.0
PACIFIC COD	0.0	179.6	38.8	78.0	43.5	20.4	15.0	39.0	75.3	0.0	0.0
ATKA MACKEREL	0.0	1839.9	0.0	8.6	0.0	0.4	506.7	0.0	4609.0	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
PAC OC PERCH	0.0	1.4	63.5	1593.4	0.0	1318.4	27.9	2624.7	1642.0	0.0	0.0
NORTHERN RCKFISH	0.0	0.2	1.8	2.3	0.0	1.4	27.2	7.0	5.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTRAKER RF	0.0	0.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	4.5	3.6	0.0	1.4	0.0	0.0
SCULPINS	0.0	0.4	34.7	7.3	2.9	5.9	2.9	1.1	0.0	0.5	0.0
OTHER RNDFFISH	0.0	0.2	0.6	16.0	0.0	0.2	4.1	18.4	5.4	0.0	0.0
ARROWTOOTH FL	0.0	10.9	15.4	1.4	142.9	13.2	2.3	0.0	0.7	0.0	0.0
KAMCHATKA FL	0.0	0.2	5.9	0.0	4.5	1.8	1.8	0.0	0.0	13.2	0.0
GREENLAND TBT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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	28.1	10.0	8.6	330.7	7.7	27.2	0.9	2.9	0.0	0.0
REX SOLE	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	69.6	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	21.8	0.0	19.5	0.0	22.7	10.9	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	96.6	77.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	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	2399.0	388.4	1742.7	630.7	2044.3	1024.1	2707.9	6350.3	27.9	0.0

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	166	167	168	169	170	171	172	173	174	175	176
MONTH/DAY/YEAR	9/ 4/91	9/ 4/91	9/ 4/91	9/ 4/91	9/ 5/91	9/ 5/91	9/ 5/91	9/ 5/91	9/ 6/91	9/ 6/91	9/ 6/91
LATITUDE START	51 53.7	51 55.1	51 54.1	51 58.0	51 58.4	52 3.5	52 2.6	52 2.0	51 47.6	51 49.0	51 47.8
LONGITUDE START	178 19.4E	178 22.4E	178 12.0E	178 11.3E	178 15.2E	178 19.3E	177 42.0E	177 39.4E	177 43.2E	177 35.8E	177 6.0E
LATITUDE END	51 52.6	51 53.5	51 54.0	51 58.7	51 57.3	52 4.1	52 2.6	52 0.6	51 47.9	51 49.0	51 48.2
LONGITUDE END	178 20.7E	178 23.1E	178 14.6E	178 9.5E	178 16.8E	178 17.1E	177 43.3E	177 39.0E	177 40.5E	177 38.1E	177 6.5E
LORAN START	12951.40	12974.20	12904.80	12909.10	12935.30	12973.50	12729.10	12710.30	12706.40	12661.70	12468.80
LORAN END	12958.40	12974.50	12921.70	12898.80	12943.10	12961.10	12737.20	12705.00	12689.80	12676.70	12472.80
LORAN END	34633.40	34634.10	34623.60	34610.10	34620.90	34611.30	34570.70	34568.20	34589.70	34585.00	34546.20
GEAR DEPTH	89	65	145	145	46	211	69	43	86	94	52
DURATION IN HOURS	0.48	0.50	0.50	0.50	0.50	0.50	0.25	0.40	0.50	0.50	0.17
DISTANCE FISHED	1.42	1.65	1.63	1.30	1.49	1.47	0.76	1.34	1.69	1.46	0.53
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172
POLLOCK	145.1	0.0	29.9	179.2	0.0	0.0	2.9	0.0	12.7	54.4	0.0
PACIFIC COD	144.2	136.1	47.2	46.1	136.5	0.0	208.2	168.3	23.6	1.1	78.5
ATKA MACKEREL	0.0	673.4	2.3	0.0	86.6	0.0	145.6	5.4	10.9	2.3	1116.3
SABLEFISH	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.2	19.1	1665.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTHERN RCKFISH	0.0	0.0	4.5	15.4	0.0	0.0	2.7	0.0	0.0	0.0	0.0
ROUCHEYE RKFH	0.0	0.0	10.4	15.4	0.0	24.0	0.0	0.0	0.0	0.0	367.6
SHORTRAKER RF	0.0	0.0	38.6	102.4	0.0	12.2	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	31.0	7.7	19.1	10.2	15.9	0.9	2.9	0.1	1.4	0.9	0.0
OTHER RNDFISH	0.0	0.7	3.9	21.8	0.2	2.9	1.4	1.5	1.5	0.0	0.7
ARROWTOOTH FL	0.0	0.0	9.5	10.3	0.0	90.5	1.8	0.0	24.9	1.4	0.0
KAMCHATKA FL	0.0	0.0	30.4	2.5	0.0	54.0	0.0	0.0	2.3	0.7	0.0
GREENLAND TBT	0.0	0.0	0.0	0.0	0.0	99.3	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	11.8	26.8	105.2	20.5	142.0	5.9	16.8	147.0	229.3	17.7	0.0
REX SOLE	0.0	0.0	1.4	0.0	0.0	3.6	0.0	0.0	4.1	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	115.7	0.0	48.5	0.0	6.9	0.0	66.1	37.5	0.0	0.0	0.0
OTHER FLTIFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
SKATES	85.3	17.2	9.1	0.0	0.0	0.9	29.0	0.0	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	14.1	0.0	1.4	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.0	0.0	0.0
SPONGE	11.3	73.5	0.0	0.0	13.2	0.0	58.1	5.4	0.0	0.0	6.8
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	544.4	935.5	379.9	2103.3	401.2	312.1	536.5	365.5	310.7	80.3	1569.9

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	177	178	179	180	181	182	183	184	185	186	187
MONTH/DAY/YEAR	9/ 7/91	9/ 7/91	9/ 8/91	9/ 8/91	9/ 8/91	9/ 8/91	9/ 9/91	9/ 9/91	9/ 9/91	9/ 9/91	9/ 9/91
LATITUDE START	52 4.3	52 3.6	51 56.7	51 55.7	51 55.8	52 7.8	52 12.0	52 11.9	52 18.6	52 27.6	52 28.6
LONGITUDE START	177 21.9E	177 12.2E	176 47.7E	176 38.4E	176 40.2E	176 13.3E	176 13.6E	176 6.3E	175 48.3E	175 34.8E	175 32.6E
LATITUDE END	52 3.1	52 4.3	51 56.4	51 56.0	51 55.7	52 7.4	52 12.3	52 12.6	52 17.8	52 27.0	52 28.3
LONGITUDE END	177 20.2E	177 14.5E	176 45.1E	176 40.9E	176 37.2E	176 14.3E	176 12.4E	176 5.1E	175 49.2E	175 36.4E	175 33.7E
LORAN START	12601.20	12557.20	12364.50	12303.70	12315.50	12158.70	12166.50	12119.60	12010.80	11937.10	11924.40
LORAN END	34541.00	34540.70	34509.30	34499.20	34501.40	34447.40	34440.30	34431.30	34395.80	34362.30	34357.50
LORAN END	12587.20	12552.70	12347.30	12320.10	12296.00	12154.60	12159.40	12111.70	12015.10	11947.70	11931.50
GEAR DEPTH	34540.70	34531.10	34506.40	34501.90	34497.80	34443.90	34438.20	34428.40	34398.70	34365.50	34359.60
DURATION IN HOURS	96	52	245	87	83	139	52	140	87	122	122
DISTANCE FISHED	0.50	0.50	0.50	0.50	0.50	0.25	0.25	0.33	0.33	0.33	0.25
PERFORMANCE / GEAR	1.60	1.58	1.59	1.59	1.88	0.73	0.80	1.05	1.03	1.12	0.77
	7 /172	0 /172	0 /172	5 /172	7 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.0	0.0	0.0	0.0	39.9	0.0	0.0	317.3	0.0	443.0
PACIFIC COD	0.0	290.6	0.0	0.0	0.0	4.5	686.3	191.6	7.3	0.0	9.4
ATKA MACKEREL	0.0	1200.9	0.0	0.0	0.0	0.0	2887.2	7210.8	0.0	2226.0	18.9
SABLEFISH	0.0	0.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	96.6	0.0	619.6	210.9	427.7	951.3
NORTHERN RCKFISH	0.0	1446.0	0.0	0.0	0.0	0.0	1329.1	122.3	0.0	22.4	0.0
ROUGHEYE RKFH	0.0	0.0	17.7	0.0	0.0	2.3	0.0	0.0	0.0	0.0	3.8
SHORTRAKER RF	0.0	0.0	77.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	59.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
OTHER RCKFISH	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	5.3	1.4	0.0	0.0	0.5	0.0	0.0	4.1	0.0	0.0
OTHER RNDFFISH	0.0	63.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FL	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KAMCHATKA FL	0.0	0.0	38.6	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0
GREENLAND TBT	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0
REX SOLE	0.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	93.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	1389.9	0.0	0.0	0.0	0.0	72.5	0.0	0.0	0.0	0.0
CORAL	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	4396.3	245.4	0.0	0.0	153.8	4975.0	8152.5	543.6	2676.2	1533.4

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	188	189	190	191	192	193	194	195	196	197	198
MONTH/DAY/YEAR	9/10/91	9/10/91	9/10/91	9/10/91	9/11/91	9/11/91	9/11/91	9/11/91	9/11/91	9/12/91	9/12/91
LATITUDE START	52 16.9	52 15.9	52 4.5	52 3.5	52 32.1	52 30.1	52 30.8	52 35.4	52 40.0	52 22.4	52 19.4
LONGITUDE START	175 22.3E	175 19.6E	175 11.3E	175 4.6E	174 28.8E	174 25.4E	174 15.8E	174 17.2E	173 54.9E	173 58.5E	174 7.8E
LATITUDE END	52 16.3	52 16.5	52 5.7	52 4.7	52 31.1	52 29.6	52 30.5	52 35.6	52 39.9	52 23.8	52 19.8
LONGITUDE END	175 22.9E	175 19.2E	175 13.0E	175 6.4E	174 26.4E	174 22.9E	174 13.4E	174 16.1E	173 57.6E	173 58.1E	174 10.3E
LORAN START	50120.60	50121.10	50115.40	11715.10	11500.80	11477.00	11414.80	11428.20	11284.40	11306.90	11364.70
LORAN START	34365.90	34364.10	34374.00	34367.20	34268.50	34267.90	34254.40	34247.10	34209.50	34248.80	34266.40
LORAN END	50120.20	50121.10	50115.50	11725.60	11503.90	11459.70	11398.40	11420.80	11301.90		11378.20
LORAN END	34367.90	34362.40	34374.20	34367.50	34267.20	34267.90	34251.70	34245.40	34213.00		34268.50
GEAR DEPTH	131	93	192	218	98	125	60	52	41	66	217
DURATION IN HOURS	0.25	0.25	0.50	0.50	0.50	0.50	0.50	0.25	0.50	0.50	0.50
DISTANCE FISHED	0.66	0.72	1.57	1.64	1.74	1.67	1.48	0.71	1.60	1.45	1.55
PERFORMANCE / GEAR	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	2.7	9.1	1.4	0.0	0.7	0.0	0.9	0.0	7.6	4.5
PACIFIC COD	119.7	72.6	2.7	0.0	122.9	31.3	100.7	108.9	283.8	401.9	0.0
ATKA MACKEREL	0.0	1.4	0.0	0.0	0.0	0.0	1.8	3.6	155.6	616.0	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
PAC OC PERCH	9505.0	829.2	0.0	0.0	0.0	0.1	0.0	8.4	0.0	0.0	0.0
NORTHERN RCKFISH	0.0	0.0	0.0	0.0	0.0	18.1	0.7	156.0	0.0	24.2	0.0
ROUGHEYE RKFH	204.6	11.9	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9
SHORTRAKER RF	0.0	0.0	2.3	63.5	0.0	0.0	0.0	0.0	0.0	0.0	71.7
SHORTSPINE TH	0.0	0.0	23.4	35.8	0.0	0.0	0.0	0.0	0.0	0.0	63.3
OTHER RCKFISH	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	0.0	1.6	0.1	0.0	0.0	6.1	5.0	14.1	20.4	0.2
OTHER RNDFISH	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.0	9.5	0.2
ARROWTOOTH FL	149.7	0.0	4.1	1.6	12.7	8.6	2.7	0.0	5.0	33.2	10.2
KAMCHATKA FL	0.0	0.0	3.6	3.6	2.3	0.5	0.0	0.0	0.0	0.0	24.0
GREENLAND TBT	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	53.1
FLATHEAD SOLE	0.0	0.0	0.0	0.0	8.6	8.6	11.8	0.0	0.9	98.2	0.0
ROCK SOLE	0.0	0.0	0.0	0.0	61.2	4.5	115.7	4.1	101.6	102.8	0.0
REX SOLE	0.0	0.0	0.0	1.4	5.2	10.9	5.0	0.0	0.0	0.0	6.4
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	0.0	0.0	0.0	0.0	183.8	0.0	10.3	0.0	191.3	8.3	8.3
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	0.0	0.0	0.0	74.0	0.1	0.5	10.4	0.0	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.7	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	561.8	0.0	0.0	0.0	0.0	4.1	34.5	17.7	7.6	0.0
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	9979.0	1479.5	64.9	109.4	470.8	84.1	259.3	332.1	769.9	1329.8	252.8

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	199	200	201	202	203	204	205	206	207	208	209
MONTH/DAY/YEAR	9/12/91	9/13/91	9/13/91	9/13/91	9/13/91	9/13/91	9/14/91	9/14/91	9/16/91	9/16/91	9/16/91
LATITUDE START	52 18.9	52 31.9	52 36.1	52 40.8	52 47.7	52 52.4	53 0.9	53 3.4	52 54.3	52 59.1	53 6.2
LONGITUDE START	173 38.3E	172 58.6E	172 54.8E	172 39.5E	172 36.9E	172 20.1E	172 28.0E	172 48.1E	170 50.3E	170 55.9E	170 54.0E
LATITUDE END	52 17.7	52 32.6	52 34.9	52 39.9	52 48.4	52 51.8	0 0.0	53 3.5	0 0.0	52 58.6	53 6.2
LONGITUDE END	173 40.0E	172 59.0E	172 56.2E	172 41.5E	172 34.6E	172 22.4E	0 0.0	172 48.0E	0 0.0	170 56.9E	170 54.2E
LORAN START	11202.10	11022.50	11008.20	11000.50	11012.10	11035.50		11090.40	11085.70	11099.50	11127.60
LORAN START	34230.00	34154.70	34141.70	34113.00	34094.90	34064.00		34075.60	33950.40	33946.90	33928.90
LORAN END	11211.70	11018.10	11012.10	10999.90	11015.20			11090.80	11085.80	11097.20	11127.40
LORAN END	34233.30	34151.30	34145.90	34117.40	34090.90			34075.30	33951.30	33949.10	33929.20
GEAR DEPTH	50	78	84	218	78	100	0	47	140	71	51
DURATION IN HOURS	0.50	0.25	0.50	0.50	0.50	0.50	0.00	0.05	0.25	0.25	0.07
DISTANCE FISHED	1.66	0.76	1.46	1.50	1.57	1.52	0.00	0.05	0.75	0.77	0.13
PERFORMANCE / GEAR	7 /172	6 /172	0 /172	0 /172	0 /172	0 /172	5 /172	6 /172	1 /172	0 /172	5 /172
POLLOCK	0.0	0.0	0.1	8.6	1.1	0.0	0.0	0.0	39.0	0.0	0.0
PACIFIC COD	0.0	98.4	301.9	3.6	136.5	85.3	0.0	0.0	0.0	74.8	0.0
ATKA MACKEREL	0.0	64.2	10.9	0.0	4.0	1.4	0.0	0.0	0.7	4839.0	1134.0
SABLEFISH	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	460.8	82.1	0.0	473.2	0.0	0.0	0.0	0.5	0.0	0.0
NORTHERN RCKFISH	0.0	741.9	113.9	0.0	471.0	0.0	0.0	0.0	0.0	2268.9	226.8
ROUCHEYE RKFH	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	2.3	0.0	0.0
SHORTRAKER RF	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	172.8	0.0	0.0	0.0	0.0	26.3	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	2.1	4.0	0.2	6.9	4.1	0.0	0.0	9.9	9.1	0.0
OTHER RNDFISH	0.0	57.6	6.0	1.9	6.7	0.1	0.0	0.0	30.4	70.4	0.0
ARROWTOOTH FL	0.0	1.4	9.1	8.6	20.5	53.5	0.0	0.0	0.0	0.0	0.0
KAMCHATKA FL	0.0	0.0	0.0	9.5	3.4	3.6	0.0	0.0	0.0	0.0	0.0
GREENLAND TBT	0.0	0.0	0.0	80.7	0.0	0.0	0.0	0.0	14.1	0.0	0.0
FLATHEAD SOLE	0.0	3.6	0.7	0.0	10.8	1.6	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	12.8	10.9	0.0	44.4	14.5	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	5.7	0.0	0.0	0.6	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	118.3	10.3	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	0.0	61.4	16.3	0.0	0.0	16.8	0.0	0.0	76.4	0.0	0.0
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CORAL	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	1628.3	566.2	315.1	1179.1	191.2	0.0	0.0	199.5	7262.2	1360.8

KILOGRAMS OF CATCH TAKEN BY F/V OCEAN HOPE 1 DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	210	211	212	213	214	215	216	217	218	219
MONTH/DAY/YEAR	9/16/91	9/16/91	9/16/91	9/17/91	9/17/91	9/18/91	9/18/91	9/18/91	9/19/91	9/19/91
LATITUDE START	53 8.8	53 19.7	53 15.4	52 13.7	52 33.5	52 20.1	52 3.3	52 1.9	51 57.5	51 53.7
LONGITUDE START	170 51.7E	170 43.0E	170 49.5E	173 27.8E	173 29.8E	176 21.5E	177 49.7E	177 43.4E	179 20.1E	179 45.3E
LATITUDE END	53 9.5	53 21.1	53 15.5	52 13.9	52 34.2	0 0.0	52 2.8	52 1.4	51 58.6	51 54.3
LONGITUDE END	170 52.3E	170 43.0E	170 48.3E	173 26.6E	173 30.5E	0 0.0	177 50.1E	177 45.7E	179 22.0E	179 45.9E
LORAN START	11139.10	11190.00	11168.70		11130.30	12235.60	12780.90	12736.90	13857.50	13501.90
LORAN START	33920.50	33885.50	33902.80		34229.90	34436.30	34588.00	34582.10	34797.60	34746.40
LORAN END	11141.80	11197.00	11169.60		11133.10	12241.60	12782.40	12750.80	13849.00	13507.60
LORAN END	33919.60	33882.20	33901.10		34229.30	34437.30	34589.50	34585.80	34794.20	34746.30
GEAR DEPTH	72	222	94	100	78	128	125	111	97	57
DURATION IN HOURS	0.25	0.50	0.25	0.25	0.25	0.17	0.17	0.50	0.50	0.25
DISTANCE FISHED	0.77	1.37	0.74	0.80	0.78	0.54	0.58	1.50	1.57	0.69
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	1.4	0.0	0.0	32.4	8.2	1455.2	1088.9	40.8	274.0	0.5
PACIFIC COD	0.0	0.0	0.0	71.7	28.1	0.0	0.0	58.5	112.5	8.2
ATKA MACKEREL	159.7	0.0	0.7	20.0	1.4	22.0	0.0	0.9	5.4	0.5
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	0.0	21.3	859.6	0.0	5009.7	676.7	4.5	13.4	0.5
NORTHERN RCKFISH	22.2	0.0	2170.4	3.6	0.0	0.0	16.3	0.0	0.0	0.0
ROUGHEYE RCKFH	0.0	34.7	0.0	0.0	0.0	4.7	0.0	1.4	0.0	0.0
SHORTRAKER RF	0.0	1451.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	7.4	1.4	0.0	0.0
SCULPINS	16.7	0.0	0.8	0.2	25.2	1.0	6.4	4.3	11.2	1.1
OTHER RNDFISH	4.5	0.0	32.2	4.5	1.7	1.0	0.3	1.5	0.8	0.1
ARROWTOOTH FL	0.0	0.0	0.4	11.8	36.7	4.7	56.4	28.1	2.3	0.0
KAMCHATKA FL	0.0	0.0	0.0	18.6	4.3	0.0	13.4	0.0	0.0	0.0
GREENLAND TBT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	7.3	0.0	1.4	29.5	43.5	0.0	0.0	22.2	0.2	0.0
ROCK SOLE	23.6	0.0	1.1	37.2	0.0	0.0	28.2	142.9	15.9	23.1
REX SOLE	11.3	0.0	1.8	0.0	0.0	0.0	0.7	4.5	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
PAC HALIBUT	0.0	0.0	0.0	0.0	26.2	60.0	0.0	1.7	20.8	71.5
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SKATES	139.3	0.0	0.0	14.5	0.0	0.0	0.0	47.6	39.5	15.4
SHARKS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
RED KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GOLDEN KING CRAB	0.0	1.8	0.0	0.0	0.0	3.1	7.4	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WEATHERVN SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ICLANDIC SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPONGE	1.4	766.6	0.0	0.0	0.0	15.7	0.0	6.8	8.6	4.5
CORAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	387.2	2262.3	2231.7	1103.6	175.5	6577.1	1902.2	367.2	504.5	125.4

Section 1 (continued)

Fishing log for the *Ocean Hope 1*

- Summary listing of catch rates (kilograms/nautical mile) in descending order of magnitude for selected species of commercial interest

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
5	334.2	1.1	92
31	240.3	0.6	80
188	226.8	3.4	131
20	158.9	0.4	109
216	97.3	1.7	125
27	95.8	1.5	199
159	95.3	0.6	94
23	74.9	0.4	70
64	67.2	1.3	130
34	66.8	1.0	150
171	61.6	3.8	211
92	53.9	1.0	93
82	50.8	3.0	154
42	50.7	0.7	119
95	47.4	0.6	79
214	47.1	0.5	78
1	43.0	0.6	53
113	40.7	0.6	82
99	38.8	0.8	82
2	36.4	0.6	72
116	35.5	1.3	101
204	35.2	0.8	100
11	33.7	1.3	92
59	31.2	1.3	138
101	29.3	0.4	51
8	27.0	0.2	45
98	26.9	0.4	56
147	26.4	1.1	94
197	22.9	0.6	66
152	22.7	1.3	223
21	22.0	0.2	48
71	19.7	0.5	74
123	19.1	0.5	67
75	18.9	0.4	76
217	18.7	0.5	111
25	18.6	0.3	44
13	17.0	0.5	67
115	16.9	0.2	39
124	16.9	0.3	65
81	16.2	2.3	136
146	15.2	2.4	95
174	14.8	0.6	86
213	14.7	1.2	100
65	13.9	0.4	72
154	13.6	2.9	102
203	13.0	0.7	78
157	13.0	2.2	140
33	12.6	1.2	222

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
3	12.0	1.6	160
114	11.3	0.8	80
119	11.2	0.4	103
70	11.1	0.5	78
93	11.0	0.1	34
109	10.3	1.3	96
106	9.5	0.4	82
149	9.5	1.3	94
108	9.5	0.8	108
160	9.4	1.9	140
144	8.8	0.7	96
215	8.7	0.7	128
76	8.4	0.7	91
169	7.9	0.9	145
110	7.8	1.4	103
156	7.7	0.7	103
121	7.7	2.4	155
69	7.6	0.3	58
26	7.4	0.3	56
192	7.3	0.5	98
179	6.8	3.6	245
111	6.7	0.5	78
198	6.6	2.6	217
134	6.6	2.6	230
57	6.4	1.3	116
201	6.2	1.0	84
150	6.2	3.2	195
129	6.1	1.1	146
141	5.9	3.2	214
168	5.8	1.2	145
202	5.7	1.7	218
63	5.6	0.9	111
62	5.4	1.2	116
193	5.2	1.2	125
118	4.9	0.4	54
103	4.8	2.4	177
96	4.8	0.5	80
32	4.7	0.3	63
51	4.6	1.8	252
104	4.3	1.0	144
142	4.3	1.7	160
36	4.2	0.9	240
28	3.9	2.0	67
67	3.7	0.8	97
87	3.3	1.7	213
120	3.3	0.6	130
102	3.3	0.3	70
60	3.2	0.8	143

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
196	3.1	0.8	41
12	3.0	1.1	46
88	2.6	0.5	83
68	2.6	2.0	201
190	2.6	4.1	192
83	2.5	1.7	201
73	2.5	0.6	224
172	2.4	0.2	69
58	2.4	3.6	242
24	2.3	0.2	50
161	2.2	0.5	80
16	2.2	1.1	44
15	2.1	0.4	44
74	2.1	0.9	146
6	2.0	1.1	51
39	2.0	0.5	120
200	1.9	0.5	78
194	1.8	0.5	60
66	1.8	0.4	221
218	1.4	1.1	97
94	1.4	0.6	66
14	1.4	0.6	52
43	1.4	0.6	62
84	1.3	0.9	70
122	1.3	0.2	43
77	1.2	0.2	48
163	1.2	0.7	84
107	1.2	1.8	161
56	1.1	0.9	228
45	1.1	1.6	85
72	1.0	0.5	99
158	1.0	0.7	120
191	1.0	1.6	218
175	0.9	0.5	94
47	0.9	0.7	236
86	0.8	0.7	159
85	0.8	0.3	82
29	0.8	0.3	49
212	0.5	0.4	94
136	0.3	0.5	74
91	0.2	0.4	48

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES KAMCHATKA FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
152	104.7	2.3	223
134	87.4	1.9	230
135	68.5	3.4	153
36	66.4	5.9	240
130	48.4	2.4	135
171	36.7	3.2	211
179	24.2	3.9	245
143	23.6	2.6	150
213	23.2	0.7	100
216	23.1	1.0	125
142	23.0	4.1	160
168	18.6	3.0	145
33	16.5	1.4	222
198	15.5	3.4	217
113	14.2	0.3	82
54	12.6	4.6	174
154	12.5	1.4	102
131	11.5	7.7	80
164	11.2	6.6	285
141	11.2	3.6	214
51	11.2	5.9	252
129	9.2	1.0	146
92	9.1	0.5	93
95	8.9	0.8	79
96	8.8	0.4	80
56	8.3	1.6	228
150	8.2	1.8	195
147	8.0	0.9	94
60	7.2	1.1	143
114	6.9	0.2	80
202	6.4	1.2	218
151	6.1	2.9	381
81	5.7	3.2	136
146	5.6	2.2	95
214	5.5	1.1	78
103	5.4	1.4	177
138	5.2	4.5	134
157	5.0	2.0	140
68	4.3	3.4	201
144	4.3	1.1	96
185	4.0	2.0	140
59	3.8	1.0	138
119	3.8	0.4	103
149	3.6	1.5	94
159	3.0	0.5	94
105	2.9	1.5	275
58	2.7	2.0	242
204	2.4	1.8	100

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES KAMCHATKA FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
73	2.3	0.7	224
190	2.3	1.8	192
191	2.2	1.8	218
203	2.2	0.4	78
99	2.1	0.4	82
83	2.1	2.0	201
169	2.0	0.4	145
94	1.8	0.4	66
124	1.8	0.2	65
70	1.8	0.7	78
161	1.7	0.5	80
139	1.7	1.6	69
123	1.6	0.3	67
64	1.6	0.8	130
174	1.3	0.3	86
192	1.3	0.4	98
160	1.3	0.9	140
65	1.2	0.2	72
34	1.2	0.9	150
71	1.1	0.3	74
98	1.0	0.2	56
110	1.0	0.5	103
107	0.9	0.5	161
148	0.9	0.7	117
109	0.9	0.5	96
115	0.8	0.2	39
62	0.6	0.9	116
175	0.5	0.7	94
93	0.4	0.0	34
106	0.4	0.7	82
57	0.4	0.7	116
101	0.3	0.2	51
118	0.3	0.2	54
193	0.3	0.5	125
121	0.2	0.4	155
88	0.2	0.3	83
67	0.2	0.3	97
156	0.2	0.2	103
120	0.1	0.2	130
111	0.1	0.1	78

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
80	318.1	7.7	89
78	271.3	13.7	79
153	165.4	6.7	91
200	155.7	29.6	78
116	127.0	34.9	101
196	119.6	23.9	41
215	111.1	8.6	128
192	105.6	10.2	98
219	103.7	14.3	57
37	100.6	6.1	82
172	87.0	11.0	69
45	85.3	6.2	85
166	81.5	28.9	89
46	80.2	4.4	72
12	76.7	1.5	46
28	69.6	6.2	67
34	68.8	34.9	150
83	66.3	26.0	201
9	66.2	0.5	26
127	65.3	5.7	49
29	63.3	11.9	49
102	57.6	12.6	70
17	56.3	4.1	18
30	55.4	5.8	5
42	54.4	8.8	119
136	53.3	12.1	74
159	46.4	7.7	94
100	43.0	3.6	39
148	41.6	16.4	117
90	41.3	3.4	57
114	41.2	17.0	80
63	40.3	10.2	111
43	38.7	2.7	62
49	38.2	9.4	113
10	37.6	0.7	24
26	37.3	7.2	56
48	36.2	9.4	98
128	35.5	10.6	75
44	35.4	4.6	47
84	35.4	8.1	70
123	35.4	4.5	67
79	34.9	5.1	85
98	34.6	6.7	56
117	34.4	3.9	50
214	33.6	8.7	78
81	33.5	18.7	136
152	33.0	44.9	223
16	32.2	2.0	44

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
145	32.0	5.3	39
39	32.0	17.3	120
14	31.9	0.8	52
101	30.1	3.4	51
15	29.9	2.1	44
168	29.7	16.2	145
6	29.5	2.3	51
61	29.1	5.2	98
8	29.0	1.8	45
173	28.0	1.7	43
93	25.8	2.7	34
126	24.3	4.1	48
32	23.9	2.8	63
18	23.7	1.0	30
146	22.1	11.4	95
25	21.8	3.3	44
113	21.4	11.1	82
13	21.2	1.4	67
118	20.6	2.4	54
149	20.0	16.2	94
23	19.6	6.2	70
124	18.9	3.0	65
91	18.9	2.4	48
69	17.7	6.9	58
99	16.9	9.0	82
88	16.4	8.5	83
21	13.9	10.0	48
218	13.2	10.4	97
5	12.9	3.2	92
1	11.9	1.5	53
137	11.8	4.4	48
94	11.2	8.9	66
106	10.8	5.7	82
143	10.0	15.2	150
4	10.0	0.6	40
96	9.5	5.0	80
125	9.4	12.6	389
95	8.8	6.8	79
85	8.6	6.0	82
120	8.1	13.4	130
65	7.9	6.6	72
201	7.1	10.3	84
122	7.0	0.8	43
194	7.0	5.1	60
115	6.8	0.9	39
204	6.8	10.3	100
138	6.4	11.1	134
119	6.0	9.6	103

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
197	5.8	8.3	66
140	5.4	4.9	51
198	5.4	8.3	217
76	4.8	3.6	91
170	4.6	6.9	46
112	4.6	7.4	137
77	4.6	5.2	48
111	4.3	3.2	78
55	4.2	3.2	82
121	3.8	6.1	155
24	3.8	2.9	50
104	3.3	5.2	144
11	3.1	1.9	92
31	2.9	1.7	80
75	2.1	3.3	76
217	1.1	1.7	111
20	1.0	0.7	109

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
20	170.2	0.2	109
5	148.3	0.3	92
3	97.9	0.5	160
95	85.8	0.1	79
23	80.7	0.7	70
16	73.6	0.9	44
197	67.8	0.3	66
92	67.0	0.1	93
113	57.1	0.2	82
214	55.8	0.2	78
213	36.9	1.0	100
217	14.8	0.3	111
8	11.3	0.2	45
210	9.4	0.5	72
2	9.3	0.2	72
194	8.0	0.3	60
27	7.2	0.5	199
203	6.9	0.3	78
25	5.7	0.4	44
193	5.2	0.5	125
192	5.0	0.3	98
108	4.9	0.5	108
200	4.7	0.2	78
67	4.5	0.4	97
96	4.5	0.2	80
24	3.2	0.5	50
4	2.9	0.5	40
75	2.3	0.7	76
6	2.0	0.5	51
212	1.8	0.7	94
26	1.8	0.3	56
17	1.5	0.8	18
14	1.4	0.3	52
120	1.4	0.5	130
204	1.0	0.1	100
114	1.0	0.4	80
21	0.8	0.3	48
64	0.7	0.6	130
28	0.6	0.5	67
196	0.6	0.9	41
123	0.5	0.2	67
74	0.5	0.5	146
201	0.5	0.3	84
11	0.4	0.5	92
107	0.2	0.4	161
121	0.2	0.3	155
104	0.2	0.3	144
218	0.1	0.2	97

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
98	0.1	0.1	56

1991 ALEUTIAN IS. TRIENNIAL SURVEY
 F/V OCEAN HOPE 1

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
27	19.9	0.3	199
210	14.7	0.4	72
25	13.2	0.5	44
103	11.5	0.5	177
147	10.9	0.5	94
200	7.5	0.6	78
179	7.4	0.6	245
193	6.5	0.5	125
107	5.9	0.5	161
20	5.6	0.2	109
5	5.0	0.6	92
8	4.6	0.3	45
3	4.6	0.7	160
141	4.2	0.5	214
198	4.1	0.4	217
68	4.0	0.4	201
23	4.0	0.6	70
104	3.7	0.4	144
194	3.4	0.5	60
108	3.3	0.6	108
217	3.0	0.3	111
192	3.0	0.5	98
92	3.0	0.5	93
134	2.9	0.6	230
171	2.5	0.5	211
212	2.5	0.5	94
174	2.4	0.7	86
73	2.3	0.4	224
138	2.0	0.6	134
150	1.6	0.4	195
216	1.3	0.2	125
26	1.2	0.2	56
64	1.2	0.9	130
146	1.0	0.8	95
56	1.0	0.8	228
67	1.0	0.5	97
168	0.8	0.7	145
191	0.8	0.2	218
2	0.6	0.5	72
143	0.6	0.5	150
130	0.5	0.4	135
21	0.5	0.3	48
113	0.4	0.3	82
203	0.4	0.2	78
69	0.3	0.5	58
119	0.2	0.4	103
28	0.1	0.2	67
156	0.1	0.1	103

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
105	1581.4	3.5	275
179	11.4	4.5	245
151	8.3	4.0	381
129	8.3	6.1	146
81	8.1	4.5	136
51	7.5	5.9	252
83	6.6	3.2	201
20	6.5	1.4	109
171	6.5	3.2	211
73	6.1	1.9	224
152	5.8	4.0	223
27	4.2	4.5	199
58	4.2	3.2	242
103	2.4	3.6	177
202	2.4	3.6	218
141	2.0	3.2	214
68	1.4	2.3	201
107	1.4	2.2	161

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
78	1051.0	3.8	79
183	857.9	5.4	52
133	778.3	13.4	68
132	728.9	14.2	74
153	631.7	5.3	91
16	447.7	4.0	44
116	429.3	3.2	101
61	365.8	4.7	98
26	311.9	1.7	56
197	277.2	3.1	66
172	273.9	2.1	69
49	249.6	5.4	113
31	241.4	5.1	80
63	239.7	4.9	111
44	228.2	0.4	47
64	223.5	6.8	130
128	222.8	3.7	75
99	222.5	2.2	82
145	218.2	3.7	39
201	206.8	3.1	84
32	190.3	1.9	63
178	183.9	5.4	52
184	182.5	7.1	82
188	181.4	5.4	131
196	177.4	4.7	41
113	175.9	3.4	82
140	167.5	7.6	51
195	153.3	1.5	52
176	148.1	6.5	52
163	132.1	5.4	84
200	129.5	2.7	78
139	129.2	4.6	69
156	126.5	3.3	103
173	125.6	0.0	43
67	120.5	4.1	97
76	109.6	5.3	91
166	101.6	6.0	89
189	100.8	3.8	93
208	97.1	7.5	71
109	96.4	2.6	96
136	95.3	7.6	74
102	92.8	2.8	70
170	91.6	1.5	46
213	89.6	4.2	100
119	89.3	1.9	103
88	89.3	3.6	83
14	89.0	3.4	52
203	87.0	3.5	78

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
167	82.5	1.5	65
15	81.9	5.2	44
110	76.1	2.4	103
72	75.3	5.0	99
154	74.0	2.8	102
34	73.4	3.3	150
114	72.3	1.0	80
218	71.7	7.0	97
192	70.6	3.5	98
96	69.5	2.5	80
194	68.0	3.5	60
118	65.0	1.5	54
111	61.2	1.6	78
39	58.5	5.0	120
13	57.5	3.6	67
75	56.4	1.7	76
77	56.3	1.1	48
158	56.1	1.5	120
204	56.1	2.8	100
127	52.5	1.1	49
112	47.3	2.0	137
42	46.2	3.9	119
23	44.2	2.3	70
131	44.0	7.4	80
55	42.9	5.3	82
10	42.0	0.0	24
108	40.9	5.2	108
217	39.0	2.0	111
65	37.5	1.8	72
126	36.4	0.4	48
214	36.1	4.7	78
120	36.0	2.0	130
169	35.4	4.2	145
157	32.6	2.0	140
57	31.2	3.5	116
159	29.0	1.2	94
168	28.9	4.3	145
70	27.5	1.8	78
162	27.3	2.4	92
93	26.6	0.6	34
137	25.7	4.8	48
83	25.7	2.5	201
74	25.0	2.3	146
59	23.8	2.9	138
115	20.3	1.5	39
6	18.9	4.9	51
193	18.7	3.5	125
92	18.4	3.3	93

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
121	18.0	2.2	155
8	17.9	1.6	45
129	15.3	1.9	146
2	14.9	1.9	72
84	14.8	2.6	70
160	14.6	4.1	140
161	14.4	0.9	80
94	14.3	0.9	66
174	14.0	2.1	86
107	13.5	1.9	161
187	12.3	3.1	122
68	12.0	3.1	201
219	11.8	0.0	57
98	11.3	0.5	56
82	10.9	3.0	154
124	10.9	0.6	65
85	10.4	2.4	82
106	9.8	1.0	82
1	9.4	5.1	53
86	9.1	2.1	159
11	8.8	5.4	92
123	8.7	0.8	67
101	7.8	0.4	51
62	7.4	5.9	116
185	7.0	2.4	140
104	6.9	2.7	144
71	6.6	1.2	74
81	6.5	3.6	136
182	6.2	4.5	139
29	6.0	0.7	49
80	5.8	8.6	89
3	5.7	3.0	160
20	5.6	8.6	109
5	5.5	2.0	92
90	5.3	2.8	57
60	5.2	3.3	143
91	5.0	2.5	48
25	4.2	3.2	44
9	4.0	1.2	26
12	3.6	2.7	46
69	3.5	0.5	58
117	2.6	4.1	50
202	2.4	3.6	218
95	2.4	3.6	79
79	2.3	3.6	85
146	2.0	3.2	95
33	2.0	3.2	222
190	1.7	2.7	192

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES WALLEYE POLLOCK

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
72	4185.0	0.9	99
153	3196.0	0.9	91
215	2694.7	1.2	128
216	1877.4	0.9	125
60	1820.6	1.0	143
76	1116.0	0.9	91
154	1103.2	1.3	102
147	976.1	0.4	94
54	827.2	1.2	174
8	819.8	0.3	45
187	575.3	1.0	122
81	566.2	0.9	136
2	549.1	1.0	72
160	478.9	1.0	140
6	455.0	1.2	51
11	389.2	1.2	92
161	368.1	0.9	80
185	308.0	0.9	140
146	298.5	0.5	95
129	297.9	1.4	146
108	235.7	0.6	108
109	222.2	0.6	96
120	191.1	0.8	130
218	174.5	0.8	97
156	169.3	0.8	103
104	139.2	0.7	144
169	137.9	0.9	145
166	102.2	0.6	89
82	93.7	0.8	154
62	91.9	1.1	116
110	90.1	0.6	103
116	88.2	1.0	101
157	80.8	1.0	140
121	74.0	0.7	155
95	71.7	0.3	79
83	66.7	1.0	201
3	60.2	0.9	160
182	54.7	2.9	139
135	52.8	1.4	153
207	52.0	1.1	140
133	50.1	0.3	68
63	47.6	1.0	111
112	47.0	0.9	137
114	46.7	0.4	80
64	42.3	1.1	130
148	41.9	0.7	117
213	40.5	0.4	100
175	37.3	1.1	94

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES WALLEYE POLLOCK

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
130	35.6	1.4	135
61	34.4	0.9	98
217	27.2	0.5	111
67	22.1	0.9	97
113	20.9	0.5	82
168	18.4	1.0	145
74	17.8	1.0	146
163	15.1	0.8	84
86	14.2	1.0	159
107	14.0	1.0	161
52	13.7	1.0	154
158	13.4	0.8	120
59	13.3	1.0	138
143	13.3	0.7	150
152	11.7	1.4	223
56	11.5	1.4	228
139	11.3	0.2	69
20	11.0	2.4	109
214	10.5	0.1	78
159	10.3	0.6	94
92	9.1	0.7	93
73	8.6	0.8	224
142	8.2	1.2	160
174	7.5	0.6	86
103	7.1	1.1	177
138	7.0	0.4	134
144	6.2	0.3	96
190	5.8	1.0	192
202	5.7	1.4	218
119	5.5	0.8	103
197	5.2	0.4	66
149	4.8	0.4	94
162	4.1	0.8	92
53	4.1	1.3	216
70	4.1	0.6	78
125	3.9	1.3	389
172	3.9	0.1	69
189	3.8	0.3	93
66	3.6	0.9	221
27	3.4	0.9	199
55	3.0	1.1	82
198	2.9	0.9	217
68	2.9	1.1	201
33	2.6	1.0	222
136	2.6	0.1	74
5	2.4	0.7	92
65	1.9	0.8	72
87	1.8	0.4	213

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES WALLEYE POLLOCK

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
210	1.8	0.7	72
131	1.7	0.4	80
23	1.4	0.6	70
195	1.3	0.2	52
102	1.0	0.8	70
1	0.8	1.4	53
191	0.8	1.4	218
77	0.8	0.3	48
203	0.7	0.4	78
96	0.7	0.3	80
219	0.7	0.5	57
51	0.6	1.0	252
39	0.6	1.0	120
10	0.6	0.9	24
4	0.5	0.7	40
69	0.4	0.1	58
193	0.4	0.7	125
141	0.4	0.6	214
98	0.3	0.1	56
75	0.2	0.4	76
28	0.2	0.0	67
71	0.2	0.3	74
106	0.1	0.1	82
84	0.1	0.1	70
124	0.1	0.0	65
111	0.1	0.1	78
90	0.1	0.2	57
94	0.1	0.1	66
26	0.1	0.0	56
93	0.1	0.0	34
100	0.1	0.0	39
201	0.0	0.0	84
123	0.0	0.0	67
122	0.0	0.0	43
48	0.0	0.0	98
118	0.0	0.0	54

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ATKA MACKEREL

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
209	8722.9	0.0	51
163	8085.9	0.6	84
184	6867.5	0.6	82
208	6284.5	0.3	71
128	6072.0	0.6	75
183	3608.9	0.5	52
7	3348.7	0.0	43
132	3231.9	0.6	74
133	2337.2	0.5	68
176	2106.2	0.5	52
186	1987.5	0.6	87
140	1610.2	0.3	51
153	1348.5	0.9	91
156	1295.7	0.7	103
137	1088.0	0.3	48
127	964.7	0.3	49
178	760.1	0.7	52
145	565.6	0.5	39
78	533.2	0.7	79
161	487.2	0.6	80
197	424.8	0.5	66
167	408.1	0.6	65
210	207.4	0.5	72
172	191.6	0.6	69
147	187.8	0.5	94
44	182.2	0.4	47
196	97.2	0.6	41
200	84.5	0.3	78
170	58.1	0.5	46
61	46.2	1.3	98
215	40.7	0.6	128
60	34.7	0.4	143
213	24.9	0.5	100
136	24.5	0.4	74
187	24.5	1.7	122
76	10.2	0.7	91
201	7.5	0.6	84
84	6.9	0.4	70
174	6.4	0.5	86
158	6.2	0.5	120
195	5.1	0.6	52
173	4.1	0.5	43
139	3.7	0.4	69
218	3.5	0.4	97
203	2.5	0.8	78
77	2.4	0.5	48
16	2.4	1.2	44
10	2.3	0.5	24

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ATKA MACKEREL

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
189	1.9	0.7	93
214	1.7	0.7	78
175	1.6	1.1	94
168	1.4	0.6	145
194	1.2	0.6	60
29	1.2	0.5	49
34	1.2	1.8	150
32	1.2	0.9	63
126	1.2	0.3	48
59	1.0	0.8	138
212	0.9	0.3	94
207	0.9	0.7	140
204	0.9	0.5	100
219	0.7	0.5	57
119	0.6	1.0	103
217	0.6	0.5	111
15	0.5	0.7	44
39	0.5	0.8	120
98	0.5	0.4	56
93	0.5	0.2	34
1	0.4	0.7	53
144	0.4	0.3	96
149	0.3	0.3	94
9	0.3	0.2	26
120	0.3	0.5	130
160	0.3	0.2	140
96	0.2	0.4	80
106	0.2	0.3	82
138	0.2	0.3	134
124	0.1	0.1	65

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
202	115.2	0.5	218
143	41.2	0.7	150
198	40.8	0.5	217
179	37.7	0.4	245
207	35.1	0.7	140
191	21.8	0.3	218
142	19.0	0.6	160
187	18.2	1.8	122
141	16.2	0.5	214
190	14.9	0.4	192
103	12.1	0.9	177
27	10.6	0.6	199
151	9.1	1.3	381
134	7.3	1.3	230
150	6.8	0.2	195
211	6.0	0.3	222
87	5.3	0.6	213
171	4.6	0.9	211
105	3.5	0.3	275
164	2.3	0.7	285
120	1.5	0.6	130
107	0.7	1.1	161
130	0.5	0.4	135

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ROUGHEYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
188	310.0	1.2	131
83	219.7	1.0	201
62	114.0	1.3	116
130	37.4	1.4	135
211	25.3	1.7	222
87	20.0	0.8	213
36	19.8	1.6	240
27	19.5	1.5	199
103	19.4	1.1	177
111	18.0	0.5	78
150	18.0	1.5	195
189	16.5	1.2	93
171	16.4	1.4	211
141	16.1	1.2	214
169	11.8	1.4	145
190	11.6	18.1	192
33	11.4	1.4	222
179	11.1	1.8	245
157	9.1	0.4	140
215	8.7	0.7	128
198	7.0	1.2	217
168	6.4	1.0	145
63	5.3	1.3	111
202	5.1	1.5	218
34	5.1	1.0	150
187	4.9	0.6	122
112	4.8	0.9	137
134	3.9	1.5	230
86	3.7	0.9	159
51	3.7	1.5	252
121	3.5	0.2	155
135	3.4	1.8	153
182	3.1	1.1	139
131	3.0	1.0	80
207	3.0	2.3	140
11	2.9	3.6	92
142	2.8	1.5	160
104	2.7	2.2	144
20	2.7	4.1	109
152	2.7	1.2	223
68	2.0	1.1	201
47	1.8	1.4	236
132	1.8	1.8	74
82	1.2	0.7	154
58	1.2	1.8	242
54	0.9	1.4	174
129	0.9	0.7	146
217	0.9	1.4	111

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ROUGHEYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
143	0.9	1.4	150
107	0.8	1.3	161
57	0.8	0.5	116
151	0.8	2.3	381
45	0.7	1.0	85
156	0.6	0.5	103

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
188	14401.5	0.8	131
215	9277.3	1.0	128
116	4560.0	0.6	101
64	3231.5	0.6	130
163	2880.6	0.5	84
146	2872.4	0.4	95
130	1991.4	0.8	135
148	1908.0	0.6	117
162	1835.5	0.4	92
84	1378.8	0.3	70
169	1281.1	0.8	145
187	1235.5	0.4	122
216	1166.7	0.8	125
189	1151.7	0.3	93
158	1146.3	0.3	120
133	1110.1	0.3	68
213	1074.4	0.3	100
62	977.8	0.6	116
160	941.7	0.8	140
132	737.0	0.4	74
60	685.2	0.6	143
200	606.4	0.3	78
184	590.1	0.5	82
63	452.4	0.5	111
186	381.9	0.5	87
203	301.4	0.3	78
82	259.4	0.5	154
88	248.9	0.1	83
131	223.4	0.4	80
99	205.7	0.3	82
185	204.8	0.6	140
120	188.3	0.4	130
182	132.3	0.5	139
23	103.6	0.2	70
81	99.6	0.3	136
138	94.4	0.9	134
111	66.2	0.2	78
201	56.2	0.3	84
135	55.6	1.0	153
157	53.4	0.4	140
129	52.1	0.6	146
59	42.5	0.8	138
57	42.2	1.0	116
104	35.3	0.6	144
121	34.9	0.3	155
83	30.3	0.5	201
212	28.8	0.2	94
161	26.8	0.6	80

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
103	25.9	0.7	177
112	21.4	0.4	137
74	17.3	0.7	146
68	15.3	0.6	201
69	12.6	0.1	58
34	12.2	0.5	150
154	12.0	0.7	102
195	11.8	0.0	52
11	11.7	0.9	92
168	11.7	0.6	145
143	10.7	0.7	150
70	9.1	0.2	78
107	9.1	0.6	161
142	8.8	0.8	160
218	8.5	0.3	97
86	8.0	0.5	159
128	7.7	0.2	75
27	7.6	1.0	199
147	7.5	0.6	94
76	6.9	0.3	91
102	5.9	0.2	70
217	3.0	0.9	111
108	2.8	0.4	108
96	2.6	0.3	80
109	2.4	0.6	96
67	2.3	0.5	97
149	2.2	0.6	94
77	2.0	0.1	48
61	2.0	0.3	98
26	1.8	0.5	56
110	1.4	0.2	103
100	1.3	0.5	39
42	1.3	0.5	119
175	1.2	0.6	94
156	1.0	0.7	103
31	0.9	0.3	80
15	0.9	0.6	44
3	0.9	0.7	160
75	0.7	0.6	76
219	0.7	0.5	57
39	0.6	0.2	120
54	0.6	0.9	174
207	0.6	0.5	140
4	0.6	0.9	40
117	0.6	0.9	50
150	0.5	0.8	195
80	0.5	0.4	89
141	0.4	0.7	214

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
97	0.4	0.6	250
101	0.3	0.5	51
92	0.3	0.5	93
6	0.2	0.1	51
98	0.1	0.0	56
144	0.1	0.0	96
114	0.1	0.1	80
167	0.1	0.0	65
93	0.1	0.1	34
193	0.1	0.1	125
126	0.0	0.0	48
44	0.0	0.0	47

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
208	2946.6	0.5	71
212	2933.0	0.4	94
209	1744.6	0.0	51
183	1661.3	0.6	52
132	1612.5	0.5	74
200	976.2	0.4	78
178	915.2	0.3	52
133	713.8	0.4	68
176	693.7	0.6	52
203	300.0	0.3	78
140	264.7	0.4	51
195	219.8	0.1	52
84	197.3	0.5	70
63	140.2	0.7	111
184	116.5	0.6	82
128	94.2	0.5	75
201	78.0	0.3	84
23	44.5	0.4	70
210	28.9	0.3	72
216	28.2	0.5	125
161	26.2	0.6	80
186	20.0	0.7	87
88	19.2	0.3	83
197	16.7	0.2	66
116	14.5	0.3	101
169	11.8	0.5	145
193	10.9	4.5	125
111	9.3	0.3	78
163	8.8	0.5	84
131	8.1	0.4	80
162	4.9	0.5	92
99	4.8	0.3	82
213	4.5	0.3	100
26	4.1	0.4	56
172	3.6	0.2	69
62	3.4	0.8	116
70	3.1	0.3	78
168	2.8	0.6	145
102	2.5	0.3	70
146	2.3	0.5	95
154	1.8	0.5	102
77	1.8	0.1	48
158	1.6	0.5	120
112	1.5	0.4	137
157	1.5	0.5	140
120	1.5	0.4	130
69	1.0	0.3	58
160	1.0	0.7	140

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
107	0.9	0.7	161
96	0.9	0.5	80
143	0.7	0.6	150
20	0.7	0.4	109
92	0.5	0.3	93
104	0.5	0.4	144
194	0.5	0.7	60
55	0.5	0.7	82
110	0.4	0.6	103
144	0.4	0.3	96
67	0.3	0.5	97
129	0.3	0.2	146
142	0.3	0.5	160
74	0.3	0.5	146
103	0.2	0.4	177
138	0.2	0.4	134
15	0.2	0.2	44
32	0.2	0.3	63
44	0.2	0.3	47
86	0.2	0.3	159
156	0.2	0.2	103
29	0.2	0.2	49
95	0.1	0.2	79
141	0.0	0.0	214

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
211	1059.1	2.1	222
27	162.8	1.9	199
152	109.6	2.9	223
169	78.8	4.5	145
134	58.2	3.0	230
87	54.5	1.4	213
179	48.8	2.3	245
198	46.2	1.9	217
36	45.4	1.5	240
130	44.7	3.7	135
191	38.7	1.8	218
150	33.0	1.8	195
83	26.3	1.4	201
141	25.6	2.1	214
168	23.7	4.3	145
151	17.7	1.4	381
58	12.2	1.7	242
202	11.8	2.9	218
120	11.0	2.0	130
157	8.4	3.3	140
68	8.4	2.2	201
171	8.3	0.0	211
164	7.8	2.3	285
135	7.6	2.4	153
107	7.3	3.8	161
105	6.4	1.1	275
62	6.2	10.0	116
86	5.9	1.4	159
121	5.1	1.6	155
56	4.9	3.9	228
47	4.6	1.7	236
82	3.9	6.6	154
158	3.6	5.0	120
103	2.9	1.4	177
66	2.4	3.6	221
212	2.1	1.6	94
190	1.4	1.1	192
45	0.4	0.6	85

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
216	12.8	1.1	125
132	5.6	1.9	74
128	4.3	1.1	75
161	3.5	1.2	80
62	3.1	1.2	116
160	2.8	1.3	140
163	2.4	1.4	84
116	1.2	1.4	101
76	1.2	1.8	91
26	1.0	0.8	56
111	0.9	1.4	78
217	0.9	1.4	111
44	0.1	0.2	47

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES HARLEQUIN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
168	0.6	0.5	145
111	0.3	0.2	78
103	0.2	0.2	177
201	0.1	0.2	84

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES NORTHERN SHRIMP(=PINK SHRIMP=

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	DEPTH (FM)
144	3.5	0.0	96
20	1.6	0.0	109
113	1.4	0.0	82
95	1.2	0.0	79
3	0.9	0.0	160
148	0.6	0.0	117
130	0.3	0.0	135
92	0.3	0.0	93
143	0.2	0.0	150
96	0.1	0.0	80
121	0.1	0.0	155
129	0.1	0.0	146
107	0.1	0.0	161
112	0.1	0.0	137
149	0.1	0.0	94
111	0.0	0.0	78
103	0.0	0.0	177
108	0.0	0.0	108
104	0.0	0.0	144
135	0.0	0.0	153
86	0.0	0.0	159

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SIDESTRIPE SHRIMP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
20	0.1	0.0	109
121	0.0	0.0	155

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V OCEAN HOPE 1

SPECIES ICELAND SCALLOP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
172	1.2	0.0	69
173	0.1	0.0	43

Section 2

Fishing Log for the *Green Hope*

- Station charts of haul numbers plotted adjacent to their respective geographical locations

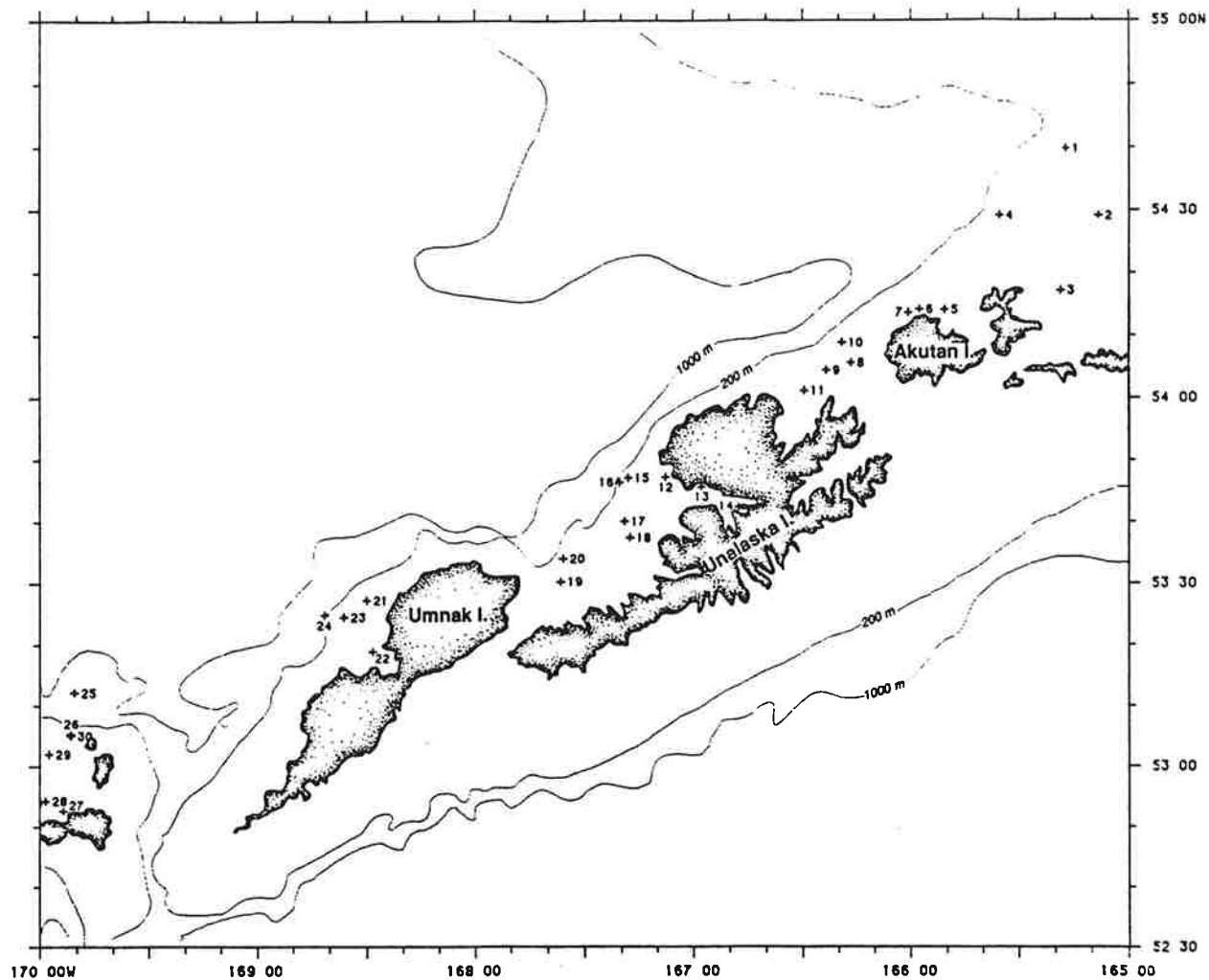


Figure 6.--Stations surveyed by the F/V *Green Hope* from Akutan Island to the Islands of Four Mountains (hauls 1-30).

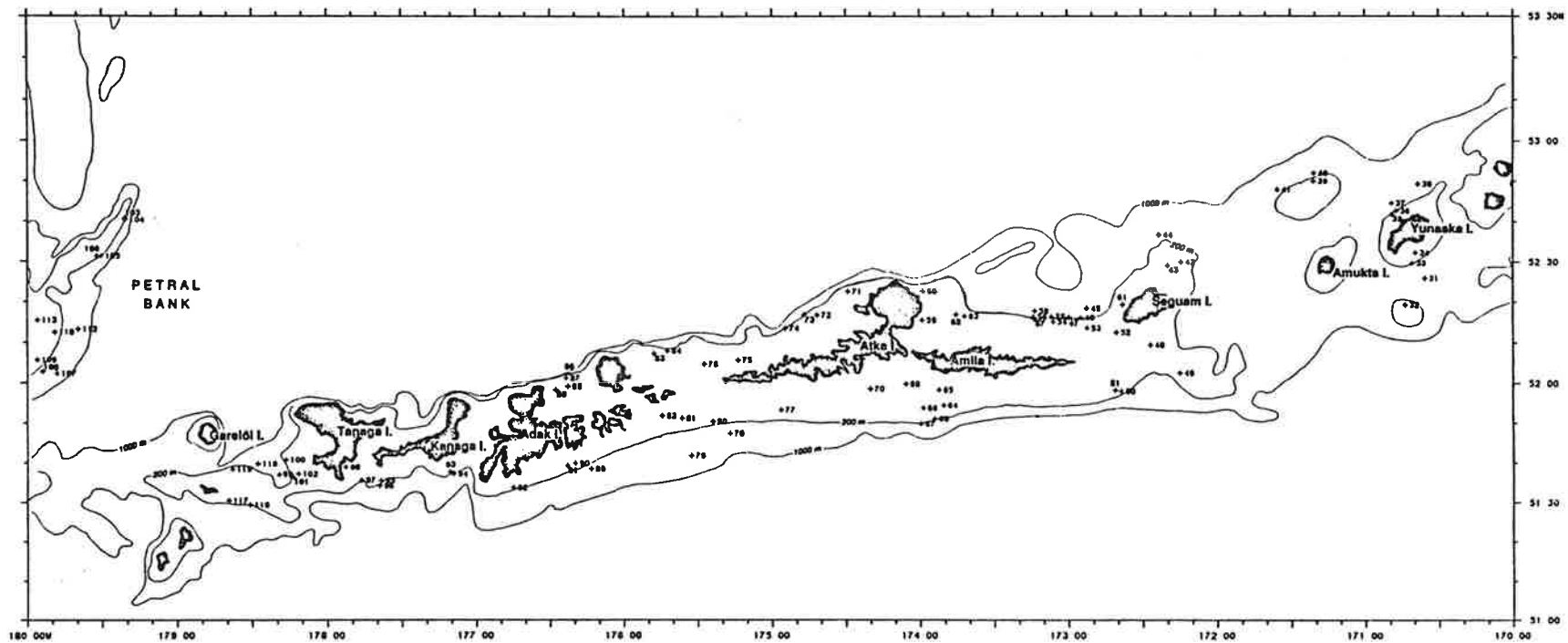


Figure 7.--Stations surveyed by the F/V Green Hope from Yunaska Island to Gareloi Island (hauls 31-102, 116-120) and eastern Petral Bank (103-110, 112-113).

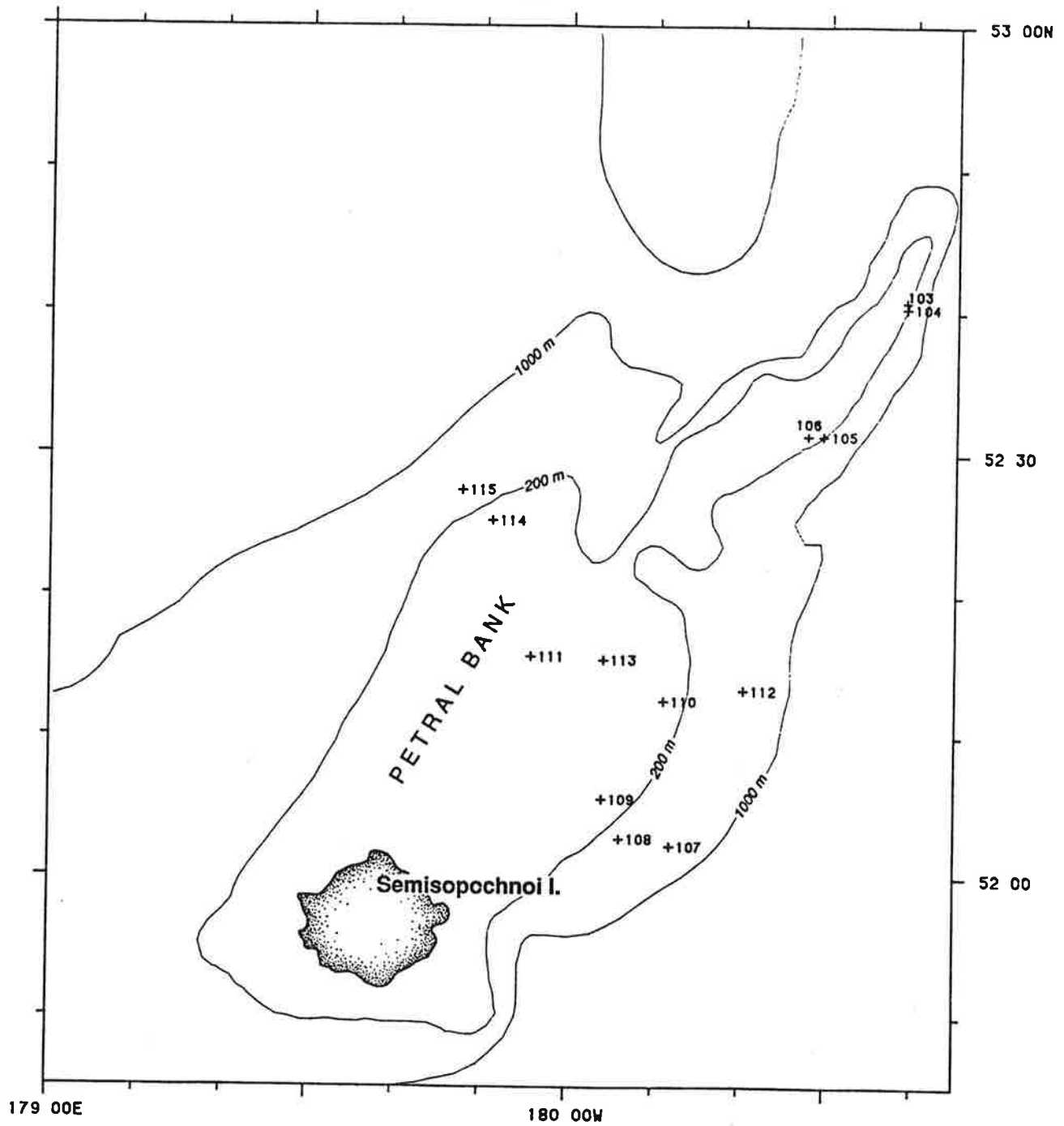


Figure 8.--Stations surveyed by the F/V *Green Hope* in the Petral Bank area (hauls 103-115).

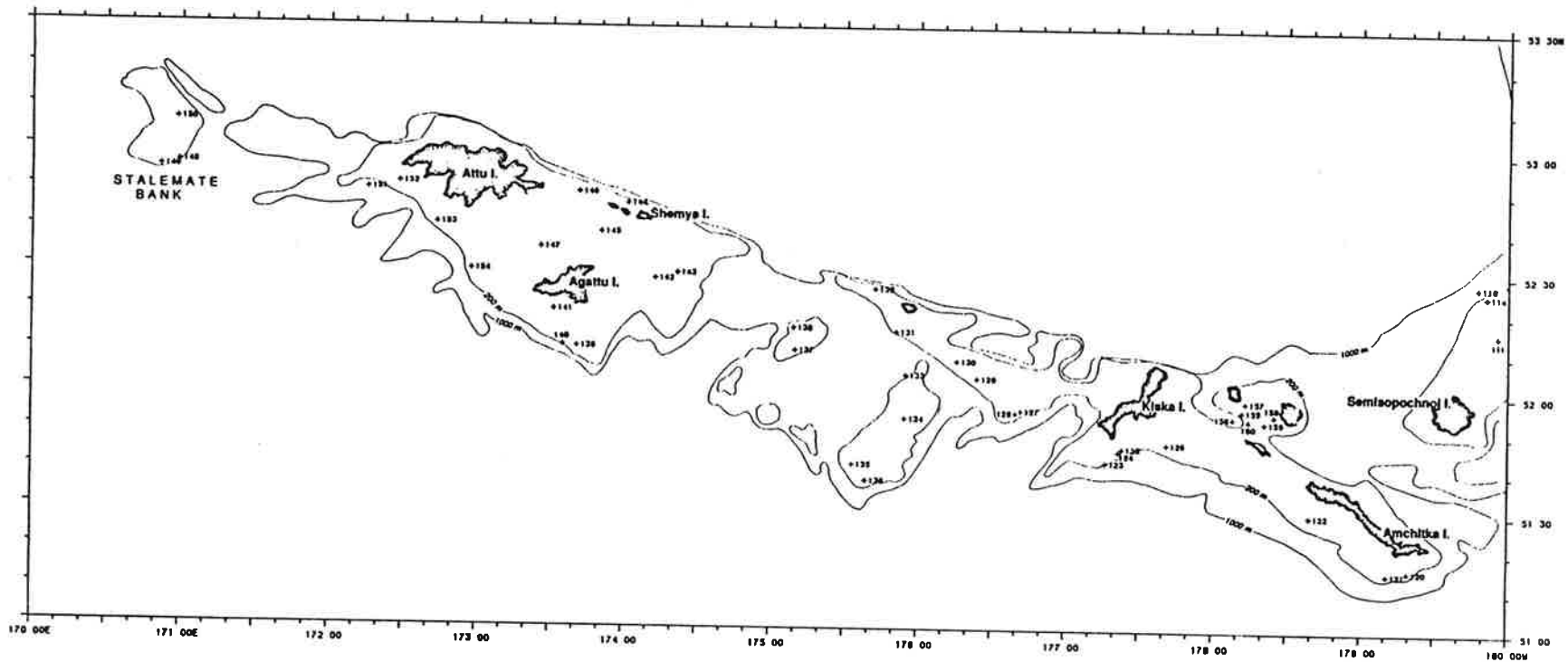


Figure 9.--Stations surveyed by the F/V *Green Hope* from Amchitka Island to Stalemate Bank (hauls 120-160) and western Petral Bank (hauls 111, 114-115).

Section 2 (continued)

Fishing log for the *Green Hope*

- Summary listings of species catches by haul
 - Haul start latitude and longitude
 - Loran readings
 - Bottom depth in fathoms
 - Duration of tow in hundredths of an hour
 - Distance fished in nautical miles
 - Total catch weight in kilograms by species

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/20/91	7/20/91	7/20/91	7/20/91	7/20/91	7/21/91	7/21/91	7/21/91	7/21/91	7/21/91	7/22/91
LATITUDE START	54 39.7	54 29.1	54 17.1	54 29.1	54 14.1	54 14.1	54 13.6	54 5.6	54 4.4	54 8.8	54 1.1
LONGITUDE START	165 17.3	165 8.4	165 18.7	165 35.5	165 50.9	165 57.7	166 0.8	166 16.7	166 23.5	166 19.2	166 29.6
LATITUDE END	54 39.1	54 28.0	54 18.1	54 29.7	54 13.9	54 14.3	54 12.5	54 6.9	54 5.8	54 10.6	53 60.0
LONGITUDE END	165 19.7	165 7.0	165 21.3	165 32.9	165 53.1	165 55.0	166 3.1	166 14.5	166 21.4	166 19.1	166 27.9
LORAN START	48079.90	48012.80	48051.90	48165.60	48225.00	48262.00	48277.20	48346.70	48379.70	48366.80	48404.40
LORAN START	34628.10	34626.20	34669.70	34688.10	34744.00	34758.60	34765.60	34807.40	34822.20	34809.00	34837.20
LORAN END	48091.60	48003.10	48069.10	48152.10	48237.10	48247.70	48287.80	48337.60	48371.30	48368.50	48393.20
LORAN END	34634.50	34624.00	34674.00	34681.10	34749.00	34752.50	34777.17	34801.60	34816.50	34806.60	34835.10
GEAR DEPTH	57	64	41	60	40	20	37	48	49	85	77
DURATION IN HOURS	0.50	0.57	0.50	0.50	0.50	0.57	0.53	0.50	0.50	0.52	0.53
DISTANCE FISHED	1.58	1.42	1.84	1.58	1.34	1.60	1.76	1.85	1.87	1.79	1.52
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172
POLLOCK	1.6	0.0	0.0	269.0	15.4	0.0	1.5	0.0	0.0	2208.0	5131.7
PACIFIC COD	11.8	0.1	396.0	73.0	32.7	0.0	344.3	93.4	52.2	0.0	41.7
PAC OC PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	1.8
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.8
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	0.0	0.0	0.0
SCULPINS	2.5	0.0	52.6	10.4	42.6	0.1	0.0	125.2	48.4	1.0	2.7
OTHER RNDFISH	0.0	0.0	0.1	0.5	3.4	0.9	0.0	72.2	4.9	0.0	0.3
TOT RNDFISH	15.9	0.1	448.7	352.9	94.1	1.0	346.7	293.6	106.5	2209.9	5185.1
ARROWTOOTH FL	5.0	0.0	0.0	174.2	58.5	0.0	0.0	0.0	0.7	65.3	105.7
FLATHEAD SOLE	18.6	2.7	0.0	4.5	29.5	0.0	0.0	0.0	3.6	1.4	61.2
ROCK SOLE	2.5	4.3	81.6	21.3	107.0	11.8	21.3	5.4	56.2	2.3	10.0
REX SOLE	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9	42.2
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	1.4	2.1	172.5	30.8	29.9	10.7	8.8	239.1	81.6	0.0	0.0
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	79.4	0.0	0.0	0.0	0.0	0.0	0.0
TOT FLATFISH	27.4	9.1	254.1	230.9	305.3	22.5	30.1	244.5	142.2	69.9	219.1
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	2.3
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	7.9	78.1	4.2	7.7	0.5	0.2	5.6	6.6	56.7	0.0	6.0
TOTAL INVERTS	7.9	78.1	4.2	7.7	1.4	0.2	5.6	6.6	56.7	0.0	6.2
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	51.3	87.3	707.0	591.5	400.7	23.7	382.4	544.7	305.4	2290.7	5412.6

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/23/91	7/23/91	7/24/91	7/24/91	7/24/91	7/24/91	7/24/91	7/25/91	7/25/91	7/25/91	7/25/91
LATITUDE START	53 47.2	53 45.6	53 42.3	53 47.1	53 46.4	53 40.1	53 37.4	53 30.2	53 34.0	53 27.2	53 18.9
LONGITUDE START	167 7.7	166 57.9	166 47.5	167 18.1	167 20.5	167 19.1	167 17.6	167 36.4	167 35.8	168 30.0	168 28.3
LATITUDE END	53 46.4	53 44.7	53 41.8	53 47.1	53 45.1	53 38.6	53 36.9	53 28.8	53 31.8	53 28.3	53 18.0
LONGITUDE END	167 6.4	166 55.5	166 45.9	167 19.2	167 20.4	167 20.0	167 20.1	167 35.0	167 37.2	168 28.8	168 26.5
LORAN START	17844.00	17853.90	17857.50	17821.50	17812.00	17782.20	17771.90	17692.00	17710.00	17553.80	17497.30
LORAN START	48559.50	48509.70	48450.00	48610.90	48620.20	48597.70	48584.30	48652.40	48658.40	48874.80	48845.90
LORAN END	17841.60	17883.80	17857.80	17818.40	17805.50	17772.90	17763.60	17688.10	17698.60	17547.90	17497.90
LORAN END	48554.20	48495.80	48440.50	48616.10	48616.60	48593.30	48595.10	48641.90	48660.00	48872.90	48836.20
GEAR DEPTH	44	34	50	72	138	46	47	45	48	99	32
DURATION IN HOURS	0.20	0.50	0.33	0.22	0.38	0.50	0.68	0.50	0.50	0.37	0.38
DISTANCE FISHED	0.86	1.70	1.11	0.66	1.28	1.59	1.60	1.66	1.76	1.27	1.38
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	1 /172	0 /172	1 /172	7 /172	0 /172	0 /172	1 /172	0 /172
POLLOCK	0.0	0.1	1408.9	0.8	64.4	0.0	0.0	0.0	0.1	8.8	1.4
PACIFIC COD	39.9	4.1	4.1	21.3	0.0	0.0	0.0	1.8	10.0	0.0	1.4
PAC OC PERCH	0.0	0.0	0.0	8.2	100.7	0.0	0.9	0.0	0.0	0.0	0.0
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	0.4	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	0.0	0.0
OTHER RCKFISH	0.1	0.0	0.0	8.2	0.0	0.3	14.1	0.0	0.0	0.7	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	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.9	16.6	5.9	23.2	5.0	0.5	0.0	0.0	14.2	23.6	14.5
OTHER RNDFISH	1.8	21.8	0.0	0.6	0.0	0.5	0.0	0.0	0.0	0.0	0.1
TOT RNDFISH	43.7	42.6	1418.8	62.3	170.5	1.2	15.0	1.8	24.2	33.0	17.3
ARROWTOOTH FL	14.1	3.2	11.8	255.8	19.1	13.6	0.0	6.8	59.9	5.7	17.2
FLATHEAD SOLE	3.2	22.2	116.6	24.9	0.5	0.6	0.0	0.5	23.6	2.7	1.4
ROCK SOLE	60.8	43.1	0.0	9.5	0.0	104.3	0.0	71.7	50.8	17.7	113.4
REX SOLE	0.0	0.0	0.0	4.1	4.5	0.0	0.0	1.8	31.3	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	28.1	17.2	0.0	3.1	0.0	25.4	0.0	62.2	98.8	0.0	72.9
STARRY FLNDER	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFFISH	0.0	40.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
TOT FLATFISH	106.1	133.8	134.3	297.5	24.0	143.9	0.0	143.0	264.4	26.1	211.7
SKATES	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.5	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.9	0.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	7.7	9.8	1.0	48.5	2.1	1.6	0.0	1.2	6.0	1.8	2.7
TOTAL INVERTS	7.7	10.3	1.9	49.2	2.1	1.6	0.0	1.2	6.0	2.7	2.8
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	157.5	186.6	1555.0	409.1	196.6	146.8	15.0	145.9	294.6	61.8	231.8

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	7/26/91	7/26/91	7/26/91	7/26/91	7/27/91	7/27/91	7/27/91	7/27/91	7/28/91	7/28/91	7/28/91
LATITUDE START	53 24.5	53 24.8	53 12.1	53 5.3	52 52.6	52 54.3	53 2.0	53 5.0	52 25.8	52 19.4	52 29.6
LONGITUDE START	168 36.2	168 41.3	169 50.6	169 51.6	169 53.5	169 58.4	169 57.5	169 51.6	170 35.5	170 43.5	170 40.7
LATITUDE END	53 23.9	53 25.5	53 12.9	53 5.5	52 52.3	52 53.0	53 0.8	53 5.9	52 24.3	52 18.2	52 29.4
LONGITUDE END	168 35.6	168 40.3	169 50.6	169 53.5	169 55.4	169 58.7	169 59.3	169 53.8	170 37.2	170 42.8	170 43.2
LORAN START	17506.50	17493.60	17201.20	17159.10	17082.40	17074.30	17091.00	17157.30	16781.40	16716.50	16781.50
LORAN START	48892.60	48913.60	49132.70	49115.30	49085.40	49106.40	49125.10	49114.10	49142.10	49147.80	49168.60
LORAN END	17505.00	17500.20	17212.90	17153.40	17074.20	17066.90	17106.90	17154.50	16767.00	16713.20	16770.70
LORAN END	48888.80	48911.20	49134.90	49122.60	49091.00	49103.80	49127.80	49124.30	49142.80	49144.25	49175.80
GEAR DEPTH	62	183	224	100	42	34	78	95	181	83	115
DURATION IN HOURS	0.33	0.25	0.25	0.50	0.35	0.38	0.50	0.50	0.50	0.53	0.50
DISTANCE FISHED	0.67	0.89	0.77	1.18	1.17	1.28	1.61	1.57	1.86	1.20	1.54
PERFORMANCE / GEAR	0 /172	7 /172	0 /172	0 /172	1 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	127.5	0.0	0.0	0.0	0.0	0.0	0.3	727.8	0.0	0.5
PACIFIC COD	0.0	17.7	0.0	0.0	2.7	18.6	0.0	0.0	0.0	0.0	557.9
PAC OC PERCH	0.0	624.6	0.9	0.0	1.7	0.0	0.0	0.0	19.5	5.9	0.0
ROUGHEYE RKFH	0.0	18.1	14.1	0.0	0.0	0.0	0.0	0.0	1.4	0.4	0.0
SHORTSPINE TH	0.0	5.9	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	0.0	0.0	11.3	0.0	36.8	0.0	0.0	0.0	5.9	1.1	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	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
SCULPINS	2.9	4.0	11.4	0.0	0.0	0.0	0.2	0.0	0.3	0.5	4.5
OTHER RNDFISH	0.1	0.0	0.0	0.2	4.4	0.0	0.2	0.0	1.8	0.1	0.4
TOT RNDFISH	3.0	797.7	46.4	0.2	45.6	18.6	0.4	0.3	765.7	8.0	563.3
ARROWTOOTH FL	17.2	0.5	2.3	0.0	0.1	0.0	0.0	0.0	27.2	0.0	15.9
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	0.9	0.0	0.0	0.0	7.3	37.2	0.0	0.1	0.0	0.0	9.1
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	6.4	0.0	0.0	0.0	2.3	24.3	141.2	0.0	0.0	23.8	21.3
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	6.4	0.0	0.0
TOT FLATFISH	24.5	0.5	2.3	0.0	9.9	61.5	141.2	0.1	33.6	23.8	46.3
SKATES	0.0	0.0	0.0	0.0	0.0	4.5	3.9	0.0	8.2	40.8	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	1.6	0.9	0.0	2.0	0.0	0.0	0.0	0.0	0.9	0.0
DUNCENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	3.4	5.8	27.4	0.9	37.2	1.4	2.0	4.8	1.5	103.3	4.7
TOTAL INVERTS	3.4	7.4	28.3	0.9	39.3	1.4	2.0	4.8	1.5	104.2	4.7
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	30.9	805.6	77.0	1.1	94.8	86.0	147.4	5.2	809.0	176.9	614.2

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	7/29/91	7/29/91	7/29/91	7/29/91	7/29/91	7/30/91	7/30/91	7/30/91	7/30/91	7/30/91	7/31/91
LATITUDE START	52 32.2	52 41.7	52 42.7	52 44.6	52 49.3	52 49.9	52 51.9	52 47.8	52 29.9	52 29.0	52 36.5
LONGITUDE START	170 39.3	170 49.0	170 47.2	170 49.0	170 38.3	171 20.8	171 20.7	171 35.4	172 14.3	172 19.7	172 23.2
LATITUDE END	52 32.0	52 41.1	52 41.9	52 43.5	52 48.4	52 48.7	52 51.6	52 46.8	52 28.9	52 29.5	52 36.3
LONGITUDE END	170 42.1	170 50.6	170 48.8	170 51.2	170 39.5	171 22.4	171 23.2	171 37.3	172 13.0	172 19.7	172 25.7
LORAN START	16800.50	16813.30	16825.60	16828.70	16896.90	16726.70	16738.40	16653.00	16383.20	16353.80	16376.60
LORAN START	49171.70	49227.00	49224.30	49234.80	49216.80	49340.60	49346.30	49373.20	49418.60	49428.50	49458.10
LORAN END	16787.90		16811.00	16814.20	16887.10	16713.10	16726.20	16638.30	16384.70	16356.80	16363.70
LORAN END	49179.70		49229.80	49238.50	49217.90	49341.50	49352.30	49375.30	49412.80	49430.30	49463.10
GEAR DEPTH	62	99	125	228	209	92	116	127	129	85	178
DURATION IN HOURS	0.50	0.37	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.00	0.50
DISTANCE FISHED	1.75	1.14	1.77	1.69	1.14	1.59	1.54	1.60	1.26	0.58	1.56
PERFORMANCE / GEAR	1 /172	6 /172	1 /172	0 /172	0 /172	0 /172	0 /172	1 /172	1 /172	5 /172	0 /172
POLLOCK	0.1	0.0	1.2	0.0	4.3	0.2	0.0	0.0	0.0	0.0	1.5
PACIFIC COD	0.0	0.0	8995.1	0.0	0.0	239.5	50.3	0.0	30.4	4.1	0.0
PAC OC PERCH	0.0	0.0	0.0	0.5	0.0	130.9	0.0	1.6	40.1	9.1	1.5
ROUGHEYE RKFH	0.0	0.0	0.0	2.7	13.2	0.0	0.0	0.4	0.0	0.0	1.4
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 RKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.0
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
SCULPINS	21.3	2.2	17.6	2.7	5.7	1.6	6.8	0.0	2.9	1.1	2.0
OTHER RNDFISH	1.2	0.0	0.0	0.1	0.2	0.7	4.2	0.0	0.2	0.0	0.7
TOT RNDFISH	22.6	2.2	9013.9	6.1	23.3	372.9	61.3	2.0	73.6	19.3	8.1
ARROWTOOTH FL	0.0	0.0	0.0	0.9	4.3	0.0	6.8	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.0	3.4	30.8	0.0	0.0	0.0	0.0	0.0	3.6	7.7	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	10.1	0.0	74.3	0.0	0.0	33.1	0.0	0.0	0.0	7.8	0.0
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	28.1	32.4	0.3	0.0	0.0	0.0	0.0	0.0
TOT FLATFISH	10.1	3.4	105.1	29.0	36.7	33.4	6.8	0.0	3.6	15.5	0.0
SKATES	11.3	0.0	42.2	2.3	7.0	7.7	10.4	0.0	14.7	14.1	1.8
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	3.1	0.0	1.4	0.0	1.1	1.1	1.8	0.8
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	50.8	53.7	0.0	3.6	1.1	99.1	5.8	10.0	33.5	20.0	3.4
TOTAL INVERTS	50.8	53.7	0.0	6.7	1.1	100.5	5.8	11.1	34.6	21.8	4.2
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	94.9	59.4	9161.2	44.1	68.1	514.5	84.3	13.0	126.6	70.6	14.1

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	7/31/91	7/31/91	7/31/91	8/ 1/91	8/ 1/91	8/ 1/91	8/ 1/91	8/ 1/91	8/ 2/91	8/ 2/91	8/ 2/91
LATITUDE START	52 18.3	52 16.1	52 16.1	52 9.3	52 2.3	51 57.9	51 58.2	52 12.4	52 13.5	52 15.0	52 16.3
LONGITUDE START	172 52.3	172 54.8	172 59.6	172 26.7	172 14.9	172 38.5	172 40.9	172 40.4	172 52.3	173 6.0	173 6.8
LATITUDE END	52 18.1	52 16.2	52 15.8	52 8.6	52 3.3	51 58.0	51 58.4	52 12.6	52 13.3	52 15.2	52 16.4
LONGITUDE END	172 49.7	172 53.4	172 57.1	172 28.8	172 15.2	172 36.1	172 38.4	172 43.1	172 51.8	173 8.4	173 4.2
LORAN START	16146.60	16117.60	16099.70	16222.50	16442.20	16111.80	16112.10	16173.50	16122.40	16063.50	16066.20
LORAN START	49469.70	49474.20	49482.60	49393.70	49346.30	49388.20	49394.40	49431.40	49460.10	49493.40	49498.20
LORAN END	16157.70	16130.30	16111.60	16208.40	16445.30	16123.50	16114.60	16161.90	16123.80	16052.60	16079.00
LORAN END	49463.60	49469.60	49476.50	49394.00	49349.40	49383.50	49389.20	49438.40	49458.60	49498.70	49492.90
GEAR DEPTH	206	115	92	91	93	124	83	98	91	78	131
DURATION IN HOURS	0.50	0.28	0.50	0.53	0.32	0.50	0.50	0.50	0.10	0.50	0.50
DISTANCE FISHED	1.64	0.87	1.60	1.52	0.97	1.47	1.56	1.66	0.31	1.51	1.59
PERFORMANCE / GEAR	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172	0 /172	0 /172	1 /172	0 /172	0 /172
POLLOCK	1.1	88.0	164.7	1.8	0.0	4.5	4.5	0.0	1276.6	0.0	20.9
PACIFIC COD	0.0	10.4	576.5	186.9	65.8	1.4	38.6	155.6	89.4	1.6	27.4
PAC OC PERCH	0.0	42.2	5.9	45.1	325.2	47.2	30.6	16.8	0.0	0.0	59.4
ROUGHEYE RKFH	8.2	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 RCKFISH	6.4	0.0	0.7	1.8	2.3	0.0	139.5	0.0	0.0	0.0	0.3
SABLEFISH	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.5	1.4	0.8	0.0	0.0	1.5	353.6	208.2	0.0	0.0
SCULPINS	42.9	2.8	9.4	31.8	8.4	6.6	1.2	21.3	4.5	0.1	8.3
OTHER RNDFISH	3.8	0.0	0.4	0.5	0.1	0.0	0.1	0.4	0.1	0.0	2.1
TOT RNDFISH	69.1	143.9	759.0	268.7	401.8	59.7	215.9	547.6	1578.8	1.7	118.4
ARROWTOOTH FL	12.2	4.1	36.7	0.0	0.0	0.0	0.0	0.0	0.0	13.6	8.6
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
ROCK SOLE	0.0	0.4	26.3	1.1	42.0	2.3	11.8	27.7	5.0	3.4	11.1
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
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	0.0	0.0	0.0	5.4	53.3	100.7	47.0	29.3	0.0	0.0	0.0
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	965.5	0.0	11.7	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
TOT FLATFISH	977.7	4.5	74.7	6.5	95.3	106.1	58.8	56.9	5.0	17.0	23.9
SKATES	4.5	5.0	0.0	0.0	46.3	0.0	4.8	29.9	1.4	0.0	1.4
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	3.3	1.8	2.1	273.3	14.7	6.8	25.2	60.8	1.9	9.1	13.7
TOTAL INVERTS	3.3	1.8	2.1	273.3	14.7	6.8	25.2	60.8	1.9	9.1	13.9
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	1092.5	155.2	835.8	548.5	558.0	172.6	304.7	695.3	1587.0	27.8	157.4

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	8/ 2/91	8/ 2/91	8/ 3/91	8/ 3/91	8/ 4/91	8/ 4/91	8/ 4/91	8/ 4/91	8/10/91	8/10/91	8/10/91
LATITUDE START	52 16.2	52 15.6	52 17.7	52 15.4	52 22.5	52 19.3	52 16.8	52 16.4	51 54.4	51 58.2	51 53.7
LONGITUDE START	173 14.1	173 13.7	173 13.5	173 59.1	173 58.7	172 37.9	173 45.4	173 41.9	173 50.4	173 52.3	173 58.6
LATITUDE END	52 16.6	52 16.0	52 17.9	52 16.9	52 21.2	52 20.0	52 16.3	52 17.2	51 54.3	51 58.3	51 52.8
LONGITUDE END	173 16.4	173 16.1	173 15.7	173 58.4	173 57.8	172 40.1	173 42.9	173 41.7	173 49.8	173 50.2	173 56.5
LORAN START	16029.70	16029.00	16039.90	15797.30	15833.90	15925.00	15875.00	15891.30	15744.20	15752.30	15699.50
LORAN START	49512.80	49510.50	49515.50	49597.10	49614.40	49567.90	49575.50	49568.30	49529.10	49541.90	49542.80
LORAN END	16020.10	16018.70	16029.90	15808.90	15832.30	15917.40	15885.90	15896.60	15747.30	15763.20	15706.20
LORAN END	49518.70	49516.20	49521.10	49600.30	49609.50	49573.60	49569.70	49569.90	49527.70	49538.30	49536.70
GEAR DEPTH	129	72	274	40	44	262	93	102	66	45	78
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.33	0.16	0.50	0.50
DISTANCE FISHED	1.49	1.52	1.43	1.62	1.44	1.50	1.61	0.88	0.39	1.28	1.55
PERFORMANCE / GEAR	0 /172	7 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	1 /172	0 /172	0 /172
POLLOCK	352.0	1.4	0.0	140.4	10.4	0.9	10.9	0.7	0.0	0.0	0.0
PACIFIC COD	68.9	46.0	0.0	140.4	146.5	0.0	233.4	20.4	28.4	20.9	8.2
PAC OC PERCH	397.8	11.3	0.0	0.0	0.0	0.0	25.4	1.1	183.6	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 RKFISH	2.3	5.9	0.0	0.0	0.5	0.0	1.8	0.0	187.1	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
SCULPINS	6.5	0.4	14.9	13.8	14.3	0.1	2.2	0.2	2.7	2675.4	0.0
OTHER RNFISH	0.3	0.9	5.4	0.1	0.4	4.4	0.1	0.1	0.5	11.0	0.0
TOT RNFISH	827.7	65.9	20.3	294.7	172.1	5.4	273.9	22.5	403.8	2714.3	8.2
ARROWTOOTH FL	2.7	0.5	0.0	105.2	49.4	0.0	4.8	0.0	0.7	0.0	0.1
FLATHEAD SOLE	3.6	0.0	0.0	49.2	0.0	0.0	13.8	1.0	0.0	0.0	0.0
ROCK SOLE	3.4	0.0	0.0	239.0	27.7	0.0	8.2	0.0	3.4	2.5	0.1
REX SOLE	0.0	0.0	0.0	0.0	0.0	1.4	7.7	1.2	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	15.1	18.9	0.0	0.0	0.0	31.8	0.0	4.5
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	2.7	0.0	18.4	39.9	2.5	17.7	2.9	1.8	0.0	0.0	0.0
TOT FLATFISH	12.5	0.5	18.4	448.5	98.5	19.1	37.4	4.0	35.9	2.5	4.8
SKATES	2.3	0.0	0.7	0.0	2.3	0.0	4.5	0.9	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.0	0.1	0.0	0.5	0.1	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	16.9	21.3	2.8	3.2	32.3	2.1	3.9	8.5	213.4	384.2	1.8
TOTAL INVERTS	16.9	21.3	4.7	3.2	32.4	2.1	4.5	8.6	213.4	384.2	1.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	859.4	87.8	44.0	746.5	305.2	26.6	320.4	35.9	653.1	3101.0	14.8

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/10/91	8/11/91	8/11/91	8/11/91	8/12/91	8/12/91	8/12/91	8/12/91	8/13/91	8/13/91	8/14/91
LATITUDE START	51 49.7	51 59.6	51 51.0	51 58.5	52 22.4	52 16.6	52 16.7	52 13.4	52 5.6	52 4.6	51 53.2
LONGITUDE START	173 59.6	174 5.7	173 54.1	174 20.2	174 29.3	174 41.7	174 47.1	174 54.8	175 13.7	175 27.4	174 56.3
LATITUDE END	51 49.7	51 59.8	51 50.9	51 58.1	52 23.0	52 17.4	52 17.7	52 14.0	52 6.2	52 5.7	51 53.3
LONGITUDE END	174 0.2	174 3.1	173 55.1	174 21.3	174 27.2	174 40.3	174 45.6	174 53.8	175 11.6	175 27.1	174 58.7
LORAN START	15676.50	15690.20	15710.10	15609.00	15671.00	15576.60	15547.80	15491.00	15352.30	15271.90	15393.80
LORAN START	49535.00	49570.60	49527.70	49592.50	49666.70	35064.80	35060.70	35056.40	35045.10	35034.60	35064.30
LORAN END	15673.80	15704.60	15704.70	15601.10	15684.30	15588.50	15560.80	15499.10	15366.90	15278.90	15381.30
LORAN END	49536.10	49566.00	49529.50	49593.60	49664.60	35065.50	35061.40	35056.80	35046.70	35034.20	35062.40
GEAR DEPTH	209	50	117	56	64	65	99	115	51	47	80
DURATION IN HOURS	0.13	0.50	0.20	0.25	0.50	0.38	0.42	0.27	0.50	0.36	0.50
DISTANCE FISHED	0.36	1.64	0.64	0.80	1.34	1.25	1.37	0.86	1.46	1.20	1.47
PERFORMANCE / GEAR	7 /172	0 /172	7 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.0	181.9	0.1	0.0	3.5	27.7	23.8	0.5	0.1	0.5
PACIFIC COD	17.5	18.1	17.7	4.4	2.4	9.5	85.7	27.4	2.0	6.8	5.9
PAC OC PERCH	1.1	0.0	17.2	0.7	0.3	0.1	2.5	4.1	0.1	0.5	0.0
ROUGHEYE RKFH	64.5	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 RCKFISH	40.9	0.0	0.0	0.0	0.3	0.0	1.0	1.0	0.0	0.2	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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	11.0	0.0	0.6	1.2	1.0	6.4	11.4	1.5	1.9	9.3	0.2
OTHER RNDFFISH	0.0	0.0	0.3	0.0	0.2	2.0	0.1	0.0	0.1	0.0	0.1
TOT RNDFFISH	135.0	18.5	217.7	6.5	4.1	21.6	128.4	57.9	4.6	16.9	6.7
ARROWTOOTH FL	0.0	0.0	0.0	0.4	0.0	14.1	11.3	0.0	5.7	0.0	19.5
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.1	11.8	2.2	0.0	0.0	0.4
ROCK SOLE	0.0	59.4	2.9	5.3	0.5	29.5	103.4	11.2	8.8	5.9	15.2
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	0.0	160.0	1.3	87.0	0.0	0.0	0.0	0.0	66.4	42.4	13.4
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	0.0	0.0	1.4	9.8	1.6	0.0	0.0	0.0
TOT FLATFISH	0.0	219.4	4.3	92.6	0.5	45.0	136.3	15.0	80.9	48.3	48.5
SKATES	0.0	7.9	2.5	21.5	0.0	3.2	0.0	0.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	23.4	5.4	0.0	2.0	23.8	22.8	1.4	0.8	0.5	1.6	0.2
TOTAL INVERTS	23.5	5.4	0.0	2.0	23.8	22.8	1.5	0.8	0.5	1.6	0.2
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	158.5	251.3	224.5	122.6	28.4	92.6	266.2	73.8	86.0	66.8	55.4

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	8/14/91	8/14/91	8/14/91	8/15/91	8/15/91	8/15/91	8/15/91	8/16/91	8/16/91	8/16/91	8/16/91
LATITUDE START	51 47.4	51 41.8	51 50.4	51 51.2	51 51.9	52 7.1	52 7.8	51 59.2	52 2.2	52 1.1	51 58.3
LONGITUDE START	175 16.8	175 32.5	175 23.8	175 36.3	175 44.2	175 47.8	175 42.4	176 22.8	176 22.4	176 23.7	176 27.7
LATITUDE END	51 47.4	51 41.9	51 50.0	51 50.9	51 53.0	52 6.0	52 8.2	52 0.3	52 2.6	52 1.5	51 58.9
LONGITUDE END	175 19.2	175 30.0	175 26.0	175 38.7	175 42.3	175 49.4	175 44.7	176 21.1	176 20.2	176 21.3	176 29.8
LORAN START	15257.20	15149.80	15232.20	15166.40	15125.00	15167.70	15201.50	14935.20	14949.20	14937.60	14903.20
LORAN START	35051.40	35042.30	35044.80	35034.60	35027.60	35015.60	35019.90	34988.70	34986.80	34986.40	34984.40
LORAN END	15244.00	15163.70	15218.00	15151.60	15140.30	15154.60	15190.20	14949.00	14963.80	14953.20	14893.70
LORAN END	35049.70	35043.90	35043.20	35032.50	35028.70	35014.80	35017.60	34989.40	34988.60	34988.40	34982.10
GEAR DEPTH	144	249	99	80	64	64	63	65	190	65	57
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.51
DISTANCE FISHED	1.49	1.57	1.46	1.54	1.64	1.46	1.46	1.52	1.43	1.54	1.47
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	23.6	0.0	2.5	161.0	0.3	0.5	0.0	7.3	2.9	0.0	0.1
PACIFIC COD	8.4	0.0	2.3	35.4	21.8	640.7	78.8	78.2	7.5	178.0	25.2
PAC OC PERCH	112.0	2.9	0.0	0.1	0.0	0.0	0.0	0.1	9.1	0.1	0.0
ROUGHEYE RKFH	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.0
SHORTSPINE TH	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.7	0.0
OTHER RCKFISH	1.4	11.8	0.0	0.0	0.0	0.0	1.0	0.9	14.1	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
SCULPINS	0.0	0.0	0.0	2.1	0.2	4.2	0.1	0.7	2.3	11.5	2.9
OTHER RNDFISH	0.0	8.7	0.0	0.2	0.0	0.2	0.0	0.1	0.0	0.5	0.0
TOT RNDFISH	145.4	26.0	4.8	198.9	22.3	645.6	79.9	87.4	54.4	190.8	29.1
ARROWTOOTH FL	7.9	0.0	0.9	9.8	54.4	26.3	13.4	5.0	0.0	33.1	25.6
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
ROCK SOLE	23.8	0.0	2.9	26.3	78.7	19.3	40.6	14.5	0.0	14.5	86.4
REX SOLE	6.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	14.5	2.7	7.1	23.4	0.0	38.7	7.0
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.5	0.0	0.0	0.0	0.0	0.0	0.4	2.5	0.0	0.7	1.8
TOT FLATFISH	38.8	0.7	3.9	36.1	147.6	48.3	61.5	45.4	3.0	87.0	122.0
SKATES	15.4	1.1	0.0	1.0	0.0	0.1	1.6	3.9	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.7	1.5	8.3	5.7	0.7	2.7	19.3	22.9	2.4	45.6	2.1
TOTAL INVERTS	0.7	1.5	8.3	5.7	0.7	2.7	19.3	22.9	2.4	46.7	2.1
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	200.2	29.3	16.9	241.7	170.6	696.6	162.3	159.5	59.9	324.5	153.2

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	8/17/91	8/17/91	8/17/91	8/17/91	8/17/91	8/17/91	8/18/91	8/18/91	8/18/91	8/18/91	8/19/91
LATITUDE START	51 38.5	51 39.9	51 39.3	51 33.7	51 37.7	51 37.1	51 35.5	51 34.2	51 35.6	51 38.9	51 37.0
LONGITUDE START	176 13.3	176 19.7	176 22.9	176 45.0	177 10.5	177 9.3	177 38.5	177 39.0	177 46.3	177 52.6	178 19.2
LATITUDE END	51 38.2	51 40.5	51 38.6	51 34.0	51 38.4	51 38.1	51 34.5	51 34.2	51 35.8	51 39.3	51 36.5
LONGITUDE END	176 15.9	176 17.6	176 25.2	176 42.5	177 8.4	177 7.3	177 40.4	177 39.0	177 45.8	177 50.5	178 19.2
LORAN START	14908.90	14878.10	14857.10	14709.50	14576.90	14582.10	14404.90	14397.10	14359.10	14332.60	14166.00
LORAN START	35010.70	35004.30	35001.90	34984.90	34957.80	34959.50	34932.00	34932.40	34923.90	34914.80	34888.10
LORAN END	14893.10	14892.40	14841.50	14725.10	14591.40	14597.00	14390.30	14397.10	14363.00	14346.20	14165.00
LORAN END	35008.50	35005.50	34999.90	34986.80	34959.40	34960.60	34930.80	34932.40	34924.20	34916.60	34888.40
GEAR DEPTH	132	86	85	98	99	132	96	120	70	36	203
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.01	0.13	0.40	0.15
DISTANCE FISHED	1.65	1.46	1.58	1.60	1.47	1.57	1.55	0.00	0.42	1.36	0.45
PERFORMANCE / GEAR	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	5 /172	5 /172	0 /172	5 /172
POLLOCK	188.0	18.1	65.3	296.2	0.5	51.3	30.4	36.5	2.3	0.0	4.5
PACIFIC COD	56.9	17.7	78.7	68.0	74.6	0.0	152.6	14.1	13.6	69.6	0.0
PAC OC PERCH	89.6	0.0	2.7	2.3	0.0	1.7	0.1	46.5	12.9	0.4	0.6
ROUGHEYE RKFH	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.5
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 RCKFISH	0.3	0.0	0.0	1.0	0.0	1.7	0.0	0.3	1.3	0.4	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
ATKA MACKEREL	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	13.6	0.0
SCULPINS	1.6	6.4	4.1	0.7	2.5	0.7	6.9	0.7	0.1	0.3	7.5
OTHER RDNDFISH	0.2	0.0	0.3	0.1	0.0	0.2	0.3	0.2	0.3	0.0	0.0
TOT RDNDFISH	337.3	42.2	151.1	369.0	77.7	55.7	190.3	98.3	30.5	84.3	22.4
ARROWTOOTH FL	5.2	5.5	42.4	11.8	35.2	10.2	30.4	0.7	3.9	0.5	0.0
FLATHEAD SOLE	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	20.9	3.0	5.4	0.0	25.2	2.5	8.2	2.7	0.5	3.4	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	1.4	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	12.7	0.0	6.9	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	1.1	0.4	2.5	0.3	0.0	4.8	2.6	0.0	0.0	0.0	14.1
TOT FLATFISH	40.4	8.9	57.2	12.1	60.3	18.8	53.3	3.4	4.4	3.9	14.1
SKATES	6.4	0.0	0.0	0.0	1.1	0.0	3.9	12.7	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.1	2.6	0.7	75.1	0.5	10.7	9.8	25.6	20.3	0.0	69.8
TOTAL INVERTS	0.2	2.6	0.7	75.1	0.5	10.7	9.8	25.6	20.3	0.0	70.9
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	384.3	53.7	209.1	456.2	139.6	85.2	257.4	140.0	55.2	88.1	107.3

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	8/19/91	8/19/91	8/19/91	8/20/91	8/20/91	8/20/91	8/20/91	8/23/91	8/23/91	8/23/91	8/23/91
LATITUDE START	51 40.7	51 36.2	51 37.1	52 40.8	52 40.3	52 31.3	52 31.3	52 2.2	52 2.7	52 5.6	52 12.5
LONGITUDE START	178 16.6	178 13.6	178 11.6	179 21.0	179 20.9	179 30.5	179 32.2	179 48.1	179 53.9	179 56.0	179 48.9
LATITUDE END	51 41.3	51 37.2	51 37.1	52 39.9	52 40.0	52 32.4	52 30.5	52 2.1	52 3.2	52 6.4	52 14.0
LONGITUDE END	178 17.5	178 14.4	178 10.9	179 21.8	179 21.3	179 28.6	179 33.7	179 50.4	179 51.7	179 53.9	179 49.5
LORAN START	14194.00	14197.80	14212.90	14001.10	14000.00	13905.40	13894.00	13695.40	13660.10	13655.40	13722.70
LORAN START	34887.30	34895.00	34896.50	34740.20	34741.00	34741.40	34739.30	34758.10	34750.20	34744.00	34743.60
LORAN END	14190.80	14195.90	14217.00	13992.60	13996.80	13921.00	13881.20	13680.30	13675.40	13671.60	13723.70
LORAN END	34885.80	34893.20	34897.20	34740.10	34740.90	34742.10	34738.50	34755.20	34752.30	34745.50	34741.00
GEAR DEPTH	87	68	70	74	83	75	67	182	113	73	68
DURATION IN HOURS	0.25	0.38	0.17	0.20	0.10	0.50	0.42	0.50	0.50	0.50	0.50
DISTANCE FISHED	0.82	1.07	0.46	1.02	0.34	1.56	1.26	1.44	1.43	1.57	1.50
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	9 /172	5 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.0	0.0	0.0	12.7	5.7	0.1	5.0	1.1	108.4	71.7	1.1
PACIFIC COD	160.8	614.8	39.9	66.9	5.9	33.1	341.1	0.0	0.0	14.7	105.2
PAC OC PERCH	0.0	17.0	0.0	865.5	89.1	11.3	49.0	19.7	4.3	0.0	1.2
ROUGHEYE RKFH	4.3	0.0	0.0	0.0	10.0	0.0	0.0	183.5	5.5	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.7	0.0	0.0	0.0
OTHER RCKFISH	0.0	223.2	0.0	31.1	117.3	82.2	163.5	8.2	0.0	0.0	6.9
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	66.5	10240.9	0.2	3.5	0.0	7.0	74.6	0.0	0.0	1.4	17.0
SCULPINS	5.9	2.5	0.0	1.0	7.9	2.1	3.4	27.8	4.5	24.1	16.4
OTHER RDNDFISH	0.3	0.0	0.0	6.5	4.5	99.9	7.4	26.5	0.1	0.1	3.7
TOT RDNDFISH	237.8	11098.4	40.1	987.2	240.4	235.9	644.0	325.5	122.9	111.9	151.6
ARROWTOOTH FL	1.6	0.0	0.0	5.7	0.0	0.0	3.6	1.4	0.0	0.9	0.5
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	17.2	0.0	4.1	2.5	0.0	13.2	6.8	0.0	10.7	11.3	19.3
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.6	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0
PAC HALIBUT	46.4	24.8	13.4	0.0	0.0	32.2	0.0	74.6	0.0	0.0	0.0
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	15.2	0.0	0.0	67.4	236.8	0.0	0.0	0.0
TOT FLATFISH	65.3	24.8	17.5	23.4	0.0	45.4	77.8	324.0	11.3	12.2	19.7
SKATES	0.0	0.0	0.0	4.1	8.6	36.3	37.9	4.3	0.0	0.0	49.4
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	83.9
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	12.5	216.6	17.8	5.2	0.1	2.1	157.0	4.2	2.0	0.5	45.1
TOTAL INVERTS	12.5	216.6	17.8	5.2	0.1	2.1	157.0	4.2	2.0	6.4	129.1
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	315.6	11339.8	75.4	1019.8	249.1	319.6	916.7	658.1	136.1	130.6	350.0

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	8/23/91	8/24/91	8/24/91	8/24/91	8/24/91	9/ 2/91	9/ 2/91	9/ 2/91	9/ 2/91	9/ 3/91	9/ 3/91
LATITUDE START	52 15.7	52 13.3	52 15.4	52 25.3	52 27.4	51 29.4	51 30.4	51 39.7	51 38.3	51 15.9	51 15.1
LONGITUDE START	179 55.7E	179 39.6	179 55.9	179 51.2E	179 47.6E	178 30.9	178 39.3	178 27.8	178 38.0	179 19.4E	179 10.9E
LATITUDE END	52 15.6	52 14.5	52 15.6	52 24.0	52 27.8	51 28.6	51 30.9	51 39.7	51 38.3	51 15.6	51 15.1
LONGITUDE END	179 56.8E	179 38.7	179 55.0	179 49.6E	179 50.1E	178 33.2	178 37.0	178 25.6	178 38.0	179 18.5E	179 10.9E
LORAN START	13634.60	13784.90	13687.60	13636.70	13621.30	14071.00	14024.50	14122.90	14057.40	13249.40	13196.00
LORAN START	34720.20	34754.50	34731.00	34700.90	34693.10	49860.50	49870.50	49874.90	49882.90	49946.80	49952.00
LORAN END	13641.20	13794.60	13693.30	13622.10	13638.30	14055.90	14039.80	14136.50	14057.40	13243.50	13196.00
LORAN END	34721.70	34753.90	34731.90	34700.80	34695.80	49861.20	49868.70	49872.50	49882.90	49947.40	49952.00
GEAR DEPTH	48	179	46	86	123	121	94	217	55	82	94
DURATION IN HOURS	0.18	0.50	0.17	0.50	0.50	0.50	0.50	0.45	0.08	0.20	0.03
DISTANCE FISHED	0.66	1.34	0.53	1.60	1.53	1.67	1.50	0.00	0.00	0.60	0.00
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	6 /172	0 /172	6 /172
POLLOCK	0.0	0.0	184.4	7.9	64.6	39.5	54.9	59.0	0.0	249.9	0.0
PACIFIC COD	0.0	0.0	81.6	0.0	0.0	110.0	10.4	0.0	0.0	0.0	0.0
PAC OC PERCH	0.0	2.5	0.0	0.0	82.3	283.0	1.6	0.0	0.0	615.5	0.0
ROUGHEYE RKFH	0.0	1.0	1.1	0.0	19.5	0.0	0.0	4.8	0.0	0.0	0.0
SHORTSPINE TH	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
OTHER RCKFISH	0.0	4.5	0.0	0.0	0.0	0.0	0.0	21.8	0.0	150.6	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	37.0	0.0	224.5	1.1	0.0	28.3	1.3	0.0	0.0	12.7	0.0
SCULPINS	0.3	0.5	1.2	6.4	5.5	8.8	1.0	0.0	0.0	6.4	0.0
OTHER RDNDFISH	0.4	80.9	0.3	0.7	0.1	0.6	0.2	898.5	0.0	12.8	0.0
TOT RDNDFISH	37.6	93.7	493.2	16.2	172.1	470.3	69.3	984.7	0.0	1047.9	0.0
ARROWTOOTH FL	0.0	0.0	0.0	27.7	1.3	1.1	50.3	5.7	0.0	0.9	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	46.7	0.0	4.8	12.5	0.0	5.2	219.1	2.3	0.0	25.4	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	18.3	0.0	0.0	43.5	0.0	19.6	51.9	0.0	0.0	0.0	0.0
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	5.0	0.0	2.0	5.2	0.0	7.0	196.0	0.0	3.6	0.0
TOT FLATFISH	65.0	5.0	4.8	85.6	6.5	25.9	328.4	203.9	0.0	29.9	0.0
SKATES	0.0	2.0	0.0	8.8	27.0	17.8	0.0	34.1	0.0	7.7	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	2.3	0.0	0.9	0.0	0.0	1.3	0.5	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	5.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	377.3	45.4	90.4	21.6	907.4	18.6	5.3	6.5	0.0	9.6	0.0
TOTAL INVERTS	377.3	47.6	90.4	29.3	907.5	18.7	6.6	6.9	0.0	9.6	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	479.9	148.4	588.3	139.9	1113.0	532.8	404.3	1229.6	0.0	1095.2	0.0

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	9/ 3/91	9/ 7/91	9/ 7/91	9/ 7/91	9/ 7/91	9/ 8/91	9/ 8/91	9/ 8/91	9/ 9/91	9/ 9/91	9/ 9/91
LATITUDE START	51 29.7	51 42.6	51 45.5	51 46.3	51 47.5	51 55.7	51 55.1	52 3.4	52 7.9	52 15.1	52 25.6
LONGITUDE START	178 39.3E	177 16.2E	177 21.5E	177 22.9E	177 41.1E	176 41.6E	176 39.4E	176 23.8E	176 15.6E	175 50.8E	175 42.1E
LATITUDE END	51 29.1	51 43.0	51 45.4	51 45.6	51 48.0	51 55.6	51 54.9	52 3.3	52 8.1	52 14.4	52 25.9
LONGITUDE END	178 40.9E	177 18.3E	177 20.8E	177 21.1E	177 38.8E	176 41.4E	176 38.5E	176 24.6E	176 15.0E	175 52.8E	175 41.5E
LORAN START	13028.60	12527.40	12565.20	12575.00	12693.60	12324.70	12310.40	12221.30	12174.30	12022.90	11983.50
LORAN START	49991.30	50060.20	50065.20	34570.10	34590.90	34503.30	34501.50	34468.10	34449.90	34405.90	34375.40
LORAN END	13037.50	12541.10	12560.90	12563.00	12679.90	12323.70	12304.30	12226.10	12171.10	12034.90	11979.70
LORAN END	49989.50	50059.50	50061.10	34569.20	34587.30	34503.10	34500.80	34469.50	34448.80	34409.50	34374.10
GEAR DEPTH	94	259	108	98	92	124	204	93	66	199	88
DURATION IN HOURS	0.50	0.50	0.15	0.45	0.50	0.06	0.20	0.20	0.17	0.50	0.17
DISTANCE FISHED	1.15	1.38	0.42	1.32	1.50	0.14	0.62	0.52	0.45	1.44	0.44
PERFORMANCE / GEAR	0 /172	5 /172	1 /172	0 /172	0 /172	5 /172	0 /172	0 /172	1 /172	1 /172	0 /172
POLLOCK	1.8	0.0	305.7	26.8	31.3	2.3	2.3	0.4	0.0	6.4	0.0
PACIFIC COD	29.5	0.0	20.4	52.6	26.8	19.5	0.0	55.8	31.8	0.0	67.6
PAC OC PERCH	0.5	0.0	0.6	50.3	0.0	95.3	0.0	1902.4	0.1	1.0	0.5
ROUGHEYE RKFH	0.0	0.0	1.3	0.0	0.0	0.3	17.5	5.9	2.1	28.1	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.9	15.4	0.0	0.0	7.7	0.0
OTHER RKFISH	0.0	0.0	0.0	2.5	0.3	0.9	17.2	553.7	1193.6	6.8	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	63.0	0.0	0.0	2.7	14.1	0.0	0.0	9.5	2294.9	0.0	2042.5
SCULPINS	2.2	0.0	3.5	1.3	0.5	1.1	2.0	0.1	0.0	3.6	0.0
OTHER RNDFISH	0.1	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.9	2.7	0.0
TOT RNDFISH	97.1	0.0	331.5	136.9	73.1	120.3	54.4	2527.8	3523.4	56.4	2110.5
ARROWTOOTH FL	1.1	0.0	0.0	11.6	14.1	0.2	0.0	0.0	0.0	0.0	0.0
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	17.7	0.0	4.1	25.4	191.0	0.0	0.0	0.0	0.0	0.0	4.5
REX SOLE	0.0	0.0	0.0	0.0	2.7	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	8.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	0.0	0.0	1.4	2.3	0.0	0.0	0.0	0.0	594.2	0.0
TOT FLATFISH	18.8	0.0	12.1	49.8	210.7	0.2	0.0	0.0	0.0	594.2	4.5
SKATES	31.1	0.0	10.0	7.3	1.8	0.0	0.9	15.4	5.4	0.0	67.6
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	6.8	0.0	43.3	75.9	8.5	20.7	30.4	19.7	9.8	3.1	3.8
TOTAL INVERTS	6.8	0.0	44.2	76.0	8.5	20.7	30.4	19.7	9.8	8.1	3.8
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	153.7	0.0	397.9	269.9	294.2	141.2	85.8	2562.9	3538.7	658.7	2186.4

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	9/10/91	9/10/91	9/10/91	9/10/91	9/11/91	9/11/91	9/12/91	9/12/91	9/12/91	9/13/91	9/13/91
LATITUDE START	52 4.2	51 53.5	51 41.6	51 37.6	52 10.4	52 15.9	52 11.0	52 11.2	52 20.0	52 27.9	52 29.3
LONGITUDE START	175 54.8E	175 54.5E	175 33.1E	175 38.6E	175 9.7E	175 9.0E	173 40.4E	173 34.7E	173 31.0E	174 12.4E	174 21.4E
LATITUDE END	52 4.2	51 53.8	51 42.3	51 37.9	52 10.9	52 15.7	52 10.7	52 11.7	52 19.3	52 27.9	52 28.4
LONGITUDE END	175 54.8E	175 55.1E	175 32.4E	175 38.0E	175 11.1E	175 11.3E	173 41.9E	173 32.9E	173 30.0E	174 14.0E	174 19.1E
LORAN START	12034.10	12022.40	11886.40	11919.10	11750.60	11749.90	11229.00	11201.90	11165.00	11391.80	11450.30
LORAN START	34429.80	34447.50	34440.10	34453.20	34361.40	34350.50	34247.70	34239.80	34218.90	34255.70	34264.40
LORAN END	12034.60	12026.30	11882.30	11915.50	11759.50	11764.80	11236.40	11192.90	11161.90	11402.20	11435.20
LORAN END	34429.70	34447.80	34438.20	34452.10	34362.00	34354.00	34249.90	34236.70	34219.00	34257.80	34263.20
GEAR DEPTH	63	97	101	112	97	149	89	148	50	64	94
DURATION IN HOURS	0.03	0.15	0.28	0.15	0.35	0.50	0.33	0.40	0.35	0.30	0.50
DISTANCE FISHED	0.05	0.44	0.80	0.45	1.04	1.47	0.92	1.22	0.96	0.99	1.61
PERFORMANCE / GEAR	6 /172	0 /172	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172	0 /172	1 /172	0 /172
POLLOCK	0.0	528.4	1.0	356.5	0.0	143.3	13.6	94.8	0.0	0.4	0.0
PACIFIC COD	0.0	13.6	0.0	0.0	60.8	63.4	65.1	37.2	0.0	576.1	120.2
PAC OC PERCH	46.0	547.9	20.9	1202.0	0.0	4483.4	0.0	1743.8	0.5	0.5	0.0
ROUGHEYE RKFH	10.4	0.0	25.4	3.2	0.0	0.0	0.0	2.7	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	1.7	0.0	68.9	0.0	0.0	0.0
OTHER RCKFISH	3.6	0.0	1.0	1.0	0.0	0.0	0.0	6.3	0.6	10.4	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	22.7	0.0	0.0	1.6	0.0	0.0	4.1	0.0	2.2	35.4	2.3
SCULPINS	11.7	0.5	2.9	0.2	0.2	0.2	1.8	0.2	4.5	13.4	1.7
OTHER RNDFISH	0.0	0.0	13.1	9.6	0.1	0.0	0.0	0.6	0.0	2.2	0.0
TOT RNDFISH	94.4	1090.4	64.3	1574.2	61.1	4692.0	84.6	1954.5	7.7	638.2	124.2
ARROWTOOTH FL	0.0	14.1	2.3	9.1	4.3	17.6	4.1	43.5	0.0	0.0	26.3
FLATHEAD SOLE	0.0	2.3	1.5	0.8	0.0	0.0	18.1	14.1	0.0	2.4	2.7
ROCK SOLE	0.0	5.4	0.0	0.0	1.6	0.0	90.3	0.9	14.1	42.4	45.4
REX SOLE	0.0	5.0	1.5	2.7	0.0	4.4	10.4	1.4	0.0	0.0	0.0
DOVER SOLE	0.0	0.6	0.0	5.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
PAC HALIBUT	0.0	0.0	0.0	0.0	13.5	0.0	0.0	0.0	0.0	0.0	16.6
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.0	5.4	2.7	0.2	0.9	59.7	3.6	13.6	0.0	0.0	5.0
TOT FLATFISH	0.0	32.8	7.9	17.8	20.3	81.6	126.6	74.8	14.1	44.8	96.0
SKATES	23.1	0.0	37.2	24.5	0.0	0.0	1.4	0.0	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KING CRAB	0.0	0.0	0.0	2.7	0.0	4.3	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	19.8	7.9	11.9	2.7	9.4	60.6	14.2	12.3	170.5	359.7	13.7
TOTAL INVERTS	19.8	7.9	11.9	5.4	9.4	64.8	14.2	12.3	170.5	359.7	13.8
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	137.4	1131.2	121.3	1621.9	90.8	4838.4	226.7	2041.6	192.3	1042.7	234.0

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	9/13/91	9/14/91	9/14/91	9/14/91	9/16/91	9/16/91	9/16/91	9/17/91	9/17/91	9/17/91	9/18/91
LATITUDE START	52 46.6	52 39.4	52 49.3	52 35.5	52 56.1	52 54.9	53 6.4	52 49.9	52 51.5	52 41.4	52 29.8
LONGITUDE START	174 1.1E	173 50.4E	173 41.2E	173 25.6E	170 58.6E	170 51.4E	170 58.1E	172 15.3E	172 28.0E	172 43.3E	172 57.2E
LATITUDE END	52 46.5	52 39.5	52 48.7	52 35.3	52 56.6	52 54.8	53 7.0	52 49.9	52 51.9	52 42.9	52 30.6
LONGITUDE END	174 2.1E	173 52.7E	173 43.6E	173 27.1E	170 59.8E	170 50.5E	170 58.8E	172 12.9E	172 26.3E	172 42.2E	172 56.7E
LORAN START	11340.60	11254.50	11210.40	11105.60	11088.00	11087.00	11127.30			11000.10	11025.20
LORAN START	34204.00	34204.80	34173.00	34181.40	33956.50	33950.50	33933.20			34116.40	34157.10
LORAN END	11347.40	11270.20	11225.00	11113.50	11089.10	11087.30	11129.30	11031.20		11001.20	11022.10
LORAN END	34205.20	34207.50	34177.40	34183.50	33956.70	33949.40	33932.90	50307.90		34111.50	34154.70
GEAR DEPTH	51	45	64	76	99	101	61	213	81	95	101
DURATION IN HOURS	0.22	0.50	0.50	0.30	0.30	0.20	0.25	0.50	0.35	0.50	0.30
DISTANCE FISHED	0.60	1.44	1.59	0.91	0.89	0.56	0.74	1.42	1.10	1.65	0.88
PERFORMANCE / GEAR	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	0.1	0.1	0.0	27.7	12.0	18.6	1.3	0.0	1.1	168.7	7.5
PACIFIC COD	50.8	160.1	1004.3	0.0	0.0	0.0	0.0	0.0	42.0	331.6	31.3
PAC OC PERCH	0.0	0.0	0.0	0.0	2578.8	832.9	0.9	0.6	0.0	0.0	1.7
ROUGHEYE RKFH	0.0	0.0	0.0	0.0	4.1	0.0	0.0	4.5	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.5	0.0	0.0	0.0
OTHER RKFISH	0.0	0.0	2.5	0.0	4.8	14.1	162.2	10.4	0.0	0.4	0.4
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	1.0	156.3	1.4	0.0	2218.5	1591.8	1.1	0.0	5.0	6.4	1.7
SCULPINS	57.2	7.7	45.2	19.7	20.5	0.4	10.4	0.8	5.8	6.8	5.9
OTHER RNDFISH	0.3	0.3	0.7	0.8	70.3	37.1	9.8	22.0	3.3	0.4	1.8
TOT RNDFISH	109.3	324.5	1054.0	48.2	4909.0	2494.8	185.7	106.8	57.1	514.3	50.2
ARROWTOOTH FL	6.8	14.3	15.9	40.8	0.4	0.0	0.4	0.0	11.3	73.9	34.9
FLATHEAD SOLE	13.6	2.0	2.3	61.0	0.0	0.0	10.4	0.0	27.7	26.3	6.8
ROCK SOLE	13.2	25.9	9.8	1.7	0.0	0.0	25.4	0.0	39.5	5.2	6.8
REX SOLE	0.0	0.0	0.0	0.9	1.0	0.0	9.5	6.4	1.8	0.0	0.7
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
PAC HALIBUT	0.0	3.8	65.9	23.4	0.0	0.0	0.0	0.0	0.0	2.0	20.4
STARRY FLNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	0.7	0.3	1.1	9.1	5.9	0.0	0.0	76.7	7.7	8.2	4.1
TOT FLATFISH	34.3	46.3	94.9	136.9	7.3	3.2	45.7	83.0	88.0	115.7	73.7
SKATES	0.0	0.0	6.1	0.0	2.3	9.5	45.4	1.8	0.0	0.0	0.0
SPINY DOGFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.4	0.3
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	19.3	18.9	12.2	18.8	252.5	53.0	14.4	8.8	3.0	15.9	12.2
TOTAL INVERTS	19.3	18.9	12.3	19.0	252.5	53.1	14.4	10.1	3.1	16.3	12.5
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	162.9	389.6	1167.4	204.1	5171.0	2560.6	291.2	201.8	148.3	646.2	136.4

KILOGRAMS OF CATCH TAKEN BY F/V GREEN HOPE DURING THE 1991 ALEUTIAN ISLAND BOTTOM TRAWL SURVEY

HAUL #	155	156	157	158	159	160
MONTH/DAY/YEAR	9/19/91	9/19/91	9/19/91	9/20/91	9/20/91	9/20/91
LATITUDE START	51 56.1	51 54.3	51 58.3	51 55.1	51 53.2	51 53.8
LONGITUDE START	178 11.7E	178 8.0E	178 13.1E	178 24.9E	178 21.0E	178 14.5E
LATITUDE END	51 56.6	51 54.4	51 58.0	51 55.6	51 53.9	51 53.9
LONGITUDE END	178 9.4E	178 8.2E	178 13.9E	178 23.5E	178 20.6E	178 15.7E
LORAN START	12907.90	12880.30	12922.80	12990.70	12961.30	12920.90
LORAN START	34616.70	34614.70	34615.40	34634.40	34632.40	34623.80
LORAN END	12894.60	12882.00	12927.10	12983.30	12960.30	12929.00
LORAN END	34613.00	34614.80	34616.70	34632.50	34631.00	34625.10
GEAR DEPTH	182	125	53	48	81	121
DURATION IN HOURS	0.50	0.05	0.17	0.35	0.20	0.25
DISTANCE FISHED	1.48	0.16	0.57	1.02	0.66	0.76
PERFORMANCE / GEAR	0 /172	1 /172	0 /172	0 /172	0 /172	0 /172
POLLOCK	3.2	42.2	0.1	0.0	318.9	587.4
PACIFIC COD	0.0	13.2	29.9	91.6	127.0	37.2
PAC OC PERCH	0.7	3.2	1.3	0.0	0.0	7.3
ROUCHEYE RKFH	9.5	0.0	0.0	0.0	0.0	0.0
SHORTSPINE TH	0.0	0.0	0.0	0.0	0.0	0.0
OTHER RCKFISH	7.7	0.0	0.0	0.0	2.1	15.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.4	0.0	35.8	2.0	0.0
SCULPINS	0.7	1.2	5.5	7.4	5.0	3.1
OTHER RNDFISH	4.2	0.7	0.1	0.3	0.1	1.4
TOT RNDFISH	26.0	60.7	37.0	135.2	455.1	651.3
ARROWTOOTH FL	3.6	1.4	0.0	0.0	3.8	8.6
FLATHEAD SOLE	0.0	0.0	0.0	0.0	0.0	0.0
ROCK SOLE	0.5	60.3	6.8	6.8	34.9	121.6
REX SOLE	9.1	1.4	0.0	0.0	0.0	0.0
DOVER SOLE	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
STARRY FLNDR	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLTFISH	235.9	10.2	0.0	0.0	0.2	0.5
TOT FLATFISH	249.0	73.3	6.8	6.8	39.0	130.6
SKATES	29.0	3.6	0.0	2.0	0.0	5.9
SPINY DOGFISH	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
RATFISH	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
KING CRAB	1.4	0.9	1.3	0.0	0.0	1.1
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.1	0.0	0.0	0.1	0.0	0.0
SIDE STRIPE SHRIMP	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOP	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.9	2.5	29.0	64.9	10.4	2.4
TOTAL INVERTS	2.4	3.4	30.3	65.0	10.4	3.5
OTHER	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	306.4	141.0	74.0	209.0	504.4	791.3

Section 2 (continued)

Fishing log for the *Green Hope*

- Summary listing of catch rates (kilograms/nautical mile) in descending order of magnitude for selected species of commercial interest

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
15	389.8	0.5	72
4	109.9	1.1	60
11	69.4	0.5	77
59	65.1	0.4	40
153	44.9	1.0	95
147	44.7	0.5	76
5	43.5	0.2	40
154	39.6	1.0	101
10	36.6	1.5	85
140	35.7	2.2	148
60	34.2	0.2	44
20	34.0	0.6	48
117	33.5	0.9	94
82	33.2	0.4	64
134	31.8	2.0	97
91	26.9	0.6	85
23	25.8	0.5	62
93	23.9	0.6	99
47	22.9	1.3	92
87	21.5	0.4	65
136	20.2	1.0	112
95	19.6	0.5	96
83	18.0	0.3	64
88	17.5	0.3	57
114	17.3	0.9	86
12	16.4	0.1	44
143	16.4	0.8	94
16	14.8	1.0	138
31	14.6	1.3	181
77	13.3	0.4	80
22	12.5	0.1	32
138	11.9	2.5	149
160	11.4	2.2	121
144	11.3	0.3	51
72	11.3	0.3	65
14	10.6	0.3	50
152	10.3	0.5	81
33	10.3	1.2	115
146	10.0	1.1	64
145	9.9	0.3	45
126	9.4	0.7	92
97	9.2	0.5	70
84	9.2	0.5	63
54	9.0	0.5	78
125	8.8	1.4	98
17	8.5	0.2	46
156	8.5	1.4	125
73	8.3	0.9	99

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
45	7.5	1.1	206
92	7.4	0.9	98
94	6.5	0.0	132
81	6.3	0.6	80
159	5.7	1.3	81
103	5.6	0.9	74
55	5.4	1.0	131
78	5.3	1.1	144
46	4.7	1.4	115
21	4.5	0.3	99
139	4.4	0.8	89
40	4.4	0.8	116
137	4.1	1.1	97
118	4.1	0.8	217
19	4.1	0.2	45
75	3.9	0.4	51
90	3.8	0.6	86
38	3.8	2.2	209
85	3.3	0.2	65
1	3.2	0.6	57
89	3.2	1.3	132
62	3.0	1.0	93
25	2.9	2.3	224
106	2.9	3.6	67
135	2.8	0.4	101
155	2.5	1.2	182
100	1.9	0.8	87
13	1.9	0.1	34
64	1.9	0.7	66
56	1.8	0.5	129
127	1.6	0.2	124
120	1.5	0.9	82
122	1.0	0.6	94
107	0.9	0.7	182
115	0.8	1.3	123
116	0.7	0.6	121
80	0.6	0.9	99
109	0.6	0.9	73
37	0.5	0.9	228
24	0.5	0.5	183
150	0.5	0.4	61
70	0.5	0.2	56
148	0.4	0.4	99
9	0.4	0.3	49
57	0.4	0.3	72
98	0.3	0.2	36
110	0.3	0.5	68
27	0.1	0.1	42

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES ARROWTOOTH FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
66	0.1	0.1	78
96	0.0	0.3	120

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES KAMCHATKA FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
131	407.7	6.3	199
118	139.4	2.0	217
155	130.7	2.3	182
107	91.5	4.9	182
156	63.8	1.7	125
45	59.8	2.5	206
138	40.5	3.1	149
99	31.1	2.3	203
59	24.7	0.5	40
37	16.6	4.0	228
151	12.5	0.7	213
134	12.3	1.8	97
140	11.2	1.7	148
147	9.9	0.5	76
38	8.1	4.6	209
47	7.3	0.7	92
73	7.1	0.6	99
152	7.0	0.4	81
120	6.1	0.6	82
153	5.0	0.6	95
103	4.9	2.5	74
117	4.7	0.4	94
154	4.6	0.6	101
139	3.9	0.5	89
112	3.7	2.5	179
135	3.4	0.9	101
31	3.4	1.1	181
115	3.4	5.2	123
143	3.1	0.5	94
94	3.0	2.4	132
50	2.2	3.2	124
63	2.1	0.4	102
74	1.9	0.5	115
62	1.8	0.3	93
56	1.8	0.7	129
60	1.7	0.1	44
95	1.7	0.3	96
85	1.6	0.2	65
91	1.6	0.3	85
126	1.5	0.6	92
114	1.3	0.5	86
88	1.2	0.2	57
144	1.2	0.1	51
72	1.1	0.2	65
125	1.0	0.5	98
137	0.9	0.9	97
146	0.7	0.4	64
89	0.7	0.4	132

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES KAMCHATKA FLOUNDER

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
160	0.6	0.5	121
136	0.5	0.2	112
87	0.4	0.2	65
159	0.3	0.2	81
78	0.3	0.5	144
84	0.2	0.4	63
90	0.2	0.4	86
92	0.2	0.3	98
145	0.2	0.1	45
39	0.2	0.3	92

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
8	129.4	2.1	48
70	109.2	4.6	56
68	97.3	4.3	50
3	93.8	1.2	41
29	87.9	4.3	78
64	81.1	31.8	66
50	68.3	12.6	124
100	56.9	5.8	87
20	56.1	3.8	48
49	54.9	7.6	93
22	53.0	2.5	32
107	51.9	37.3	182
75	45.5	8.3	51
9	43.6	2.9	49
36	42.0	10.6	125
146	41.5	6.0	64
19	37.5	1.4	45
76	35.3	4.2	47
117	34.5	6.5	94
12	32.8	3.1	44
51	30.2	5.2	83
102	29.2	4.5	70
111	27.7	4.6	48
114	27.2	14.5	86
147	25.6	5.8	76
87	25.1	5.5	65
101	23.2	8.3	68
154	23.2	20.4	101
5	22.3	1.2	40
39	20.8	3.3	92
105	20.7	8.1	75
32	19.8	4.0	83
4	19.5	2.6	60
124	19.1	8.0	108
28	18.9	2.2	34
52	17.7	7.3	98
17	16.0	2.5	46
85	15.4	23.4	65
33	13.8	10.7	115
43	13.4	7.8	85
60	13.1	6.3	44
137	13.0	4.5	97
116	11.7	9.8	121
143	10.4	16.6	94
13	10.1	1.7	34
23	9.5	6.4	62
59	9.4	2.5	40
77	9.1	13.4	80

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC HALIBUT

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
82	8.8	3.6	64
125	8.7	11.4	98
95	7.9	12.2	96
89	7.7	6.4	132
6	6.7	0.5	20
34	5.8	2.0	62
7	5.0	0.7	37
84	4.9	7.1	63
15	4.8	3.1	72
88	4.8	1.4	57
91	4.4	6.9	85
48	3.6	5.4	91
66	2.9	4.5	78
145	2.6	1.9	45
69	2.1	1.3	117
27	1.9	1.1	42
83	1.8	2.7	64
2	1.5	0.7	64
153	1.2	2.0	95
1	0.9	0.7	57

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES FLATHEAD SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
14	105.1	0.1	50
147	66.8	0.2	76
11	40.2	0.3	77
15	38.0	0.7	72
59	30.5	0.2	40
152	25.2	0.2	81
144	22.6	0.3	51
5	21.9	0.3	40
139	19.7	0.3	89
153	16.0	0.5	95
150	14.1	0.6	61
20	13.4	0.6	48
13	13.1	0.2	34
1	11.8	0.7	57
140	11.5	0.4	148
73	8.6	0.4	99
62	8.6	0.3	93
154	7.7	0.3	101
134	5.1	0.8	97
12	3.7	0.3	44
4	2.9	0.6	60
74	2.5	0.5	115
56	2.4	0.5	129
142	2.4	0.6	64
21	2.1	0.5	99
9	1.9	0.9	49
2	1.9	0.7	64
135	1.8	0.7	101
136	1.7	0.8	112
143	1.7	0.3	94
146	1.4	0.2	64
145	1.4	0.3	45
63	1.1	0.3	102
22	1.0	0.2	32
88	0.8	0.2	57
10	0.8	0.5	85
126	0.5	0.7	92
17	0.4	0.6	46
16	0.4	0.5	138
89	0.3	0.2	132
19	0.3	0.2	45
77	0.2	0.4	80
55	0.2	0.3	131
72	0.1	0.1	65

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES REX SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
11	27.7	0.5	77
20	17.8	0.7	48
150	12.9	0.5	61
139	11.3	0.6	89
134	11.3	0.8	97
156	8.5	0.7	125
15	6.2	0.4	72
155	6.1	0.7	182
136	6.1	0.3	112
62	4.8	0.7	93
151	4.5	0.5	213
78	4.4	0.7	144
107	3.6	0.0	182
16	3.5	0.6	138
138	3.0	0.5	149
55	2.4	0.6	131
135	1.8	0.7	101
126	1.8	0.7	92
86	1.7	0.5	190
152	1.7	0.6	81
63	1.4	0.4	102
140	1.1	0.7	148
148	1.1	0.3	99
19	1.1	0.4	45
147	1.0	0.3	76
61	0.9	0.7	262
94	0.9	0.5	132
154	0.8	0.7	101
5	0.7	0.3	40
10	0.5	0.5	85
108	0.4	0.3	113
79	0.4	0.7	249

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES DOVER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
136	11.1	1.2	112
149	5.7	1.6	101
107	4.3	0.0	182
134	1.4	0.6	97
140	1.1	0.7	148
86	0.4	0.5	190

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES YELLOWFIN SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
5	58.0	0.8	40
13	6.1	0.5	34
14	4.5	0.6	50
22	1.6	1.1	32

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES BUTTER SOLE

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
13	16.0	0.4	34
5	1.0	0.2	40
27	0.2	0.1	42

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES SABLEFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
99	5.0	2.3	203
31	4.9	1.8	181
45	4.2	2.3	206
11	2.7	4.1	77

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
36	5085.9	4.4	125
146	632.3	5.9	64
142	584.2	2.8	64
101	574.1	2.4	68
83	439.4	1.3	64
33	362.0	3.6	115
47	360.0	5.9	92
53	283.8	5.0	91
106	269.8	5.9	67
3	215.4	4.0	41
153	201.3	4.0	95
100	197.0	3.7	87
7	195.8	0.4	37
159	191.3	3.3	81
132	154.1	4.2	88
113	153.6	4.3	46
39	150.5	5.8	92
62	145.0	3.0	93
127	138.5	3.3	124
48	123.2	2.4	91
87	115.5	1.0	65
145	111.0	2.8	45
129	106.6	1.9	93
60	101.5	1.2	44
95	98.6	2.7	96
52	93.9	2.9	98
158	90.2	0.8	48
59	86.9	1.7	40
102	86.7	3.3	70
144	84.4	4.2	51
156	82.2	6.6	125
143	74.8	3.3	94
64	72.7	1.8	66
130	71.0	1.8	66
139	70.6	3.8	89
110	69.9	5.3	68
49	67.7	3.0	93
116	65.9	1.8	121
103	65.9	5.1	74
73	62.7	2.7	99
137	58.5	3.0	97
84	54.0	1.3	63
157	52.6	0.5	53
85	51.6	1.0	65
98	51.3	3.0	36
93	50.8	2.7	99
8	50.6	3.3	48
91	50.0	1.4	85

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
160	49.1	6.2	121
124	48.6	1.7	108
67	48.1	3.5	209
12	46.6	2.9	44
56	46.3	3.1	129
4	46.1	4.3	60
138	43.0	3.3	149
92	42.6	2.4	98
125	40.0	2.2	98
152	38.3	3.5	81
154	35.5	3.5	101
89	34.4	2.6	132
40	32.7	5.0	116
97	32.5	1.2	70
15	32.5	5.3	72
74	32.0	5.5	115
134	30.7	6.8	97
140	30.5	3.7	148
57	30.4	1.1	72
9	27.8	4.0	49
69	27.7	1.5	117
11	27.4	2.0	77
122	25.6	2.0	94
51	24.7	2.6	83
5	24.3	1.4	40
42	24.0	2.0	129
63	23.3	3.4	102
81	23.0	2.7	80
105	21.3	4.7	75
24	19.9	3.5	183
126	17.8	2.4	92
104	17.5	2.9	83
55	17.3	1.5	131
88	17.1	0.5	57
65	16.2	3.0	45
28	14.5	2.7	34
82	13.3	3.1	64
90	12.1	1.2	86
46	12.0	5.2	115
68	11.0	2.6	50
109	9.4	4.9	73
72	7.6	1.2	65
1	7.5	1.7	57
43	7.0	1.4	85
117	6.9	1.0	94
76	5.7	3.4	47
20	5.7	3.3	48
78	5.6	2.8	144

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC COD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
70	5.6	1.1	56
66	5.3	8.2	78
86	5.2	2.5	190
77	4.0	1.0	80
14	3.7	4.1	50
13	2.4	0.1	34
27	2.3	0.1	42
71	1.8	1.2	64
80	1.5	2.3	99
75	1.4	0.3	51
19	1.1	1.8	45
54	1.1	0.8	78
22	1.0	0.2	32
50	0.9	1.4	124
2	0.1	0.1	64
96	0.0	2.3	120

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES WALLEYE POLLOCK

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
53	4054.4	1.0	91
11	3368.3	1.2	77
14	1270.0	2.0	50
10	1236.4	1.0	85
134	1193.9	1.1	97
136	792.8	1.1	112
160	775.3	0.8	121
124	728.1	1.0	108
159	480.3	0.4	81
120	418.4	0.9	82
31	391.6	1.2	181
113	346.8	0.4	46
69	284.7	0.7	117
156	263.8	0.9	125
56	236.4	1.2	129
92	185.4	0.8	98
4	169.8	1.3	60
24	143.3	1.2	183
89	113.7	0.9	132
81	104.8	0.6	80
47	102.8	1.0	92
153	102.5	0.8	95
46	101.0	0.8	115
138	97.3	1.2	149
59	86.9	1.7	40
140	77.8	1.0	148
108	75.9	0.5	113
16	50.2	1.2	138
109	45.8	0.2	73
118	42.8	1.2	217
115	42.2	0.4	123
91	41.5	0.4	85
117	36.5	0.7	94
149	33.2	1.1	101
94	32.6	0.8	132
147	30.3	0.1	76
74	27.8	0.7	115
116	23.7	0.6	121
126	20.8	0.8	92
125	20.3	0.4	98
73	20.2	0.6	99
95	19.6	0.5	96
104	16.8	0.4	83
127	16.1	0.8	124
78	15.8	0.9	144
139	14.8	0.8	89
148	13.4	1.0	99
55	13.2	0.8	131

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES WALLEYE POLLOCK

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
103	12.5	0.3	74
90	12.4	0.6	86
5	11.5	0.4	40
99	10.0	1.1	203
154	8.5	1.5	101
60	7.2	0.1	44
21	6.9	0.0	99
62	6.8	0.6	93
97	5.4	0.3	70
114	5.0	0.4	86
85	4.8	0.3	65
131	4.4	1.1	199
106	3.9	0.1	67
38	3.8	1.4	209
128	3.7	1.1	204
50	3.1	0.6	124
51	2.9	0.6	83
72	2.8	0.3	65
155	2.1	1.1	182
86	2.1	0.5	190
150	1.7	1.3	61
80	1.7	0.8	99
122	1.6	0.4	94
135	1.3	0.3	101
15	1.2	0.8	72
48	1.2	0.6	91
152	1.0	0.1	81
1	1.0	0.8	57
22	1.0	0.0	32
44	1.0	1.5	178
57	0.9	0.2	72
7	0.9	0.1	37
63	0.8	0.7	102
107	0.8	0.5	182
110	0.8	0.2	68
129	0.7	0.2	93
36	0.7	0.3	125
45	0.7	1.1	206
61	0.6	0.9	262
93	0.4	0.3	99
142	0.4	0.4	64
83	0.3	0.1	64
75	0.3	0.1	51
77	0.3	0.5	80
33	0.3	0.1	115
144	0.2	0.0	51
157	0.2	0.1	53
30	0.2	0.1	95

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES WALLEYE POLLOCK

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
82	0.2	0.1	64
39	0.1	0.0	92
70	0.1	0.1	56
88	0.1	0.0	57
105	0.1	0.1	75
76	0.1	0.1	47
13	0.1	0.1	34
34	0.1	0.1	62
145	0.1	0.0	45
20	0.1	0.1	48
96	0.0	0.9	120

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES ATKA MACKEREL

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
101	9561.6	0.6	68
130	5132.1	0.5	66
132	4655.6	9.3	88
149	2841.6	0.5	101
148	2480.1	0.4	99
65	2082.1	0.4	45
53	661.2	1.2	91
133	431.1	0.0	63
113	422.3	0.4	46
52	213.5	0.6	98
145	108.4	0.5	45
100	81.4	0.5	87
106	59.0	0.3	67
111	56.0	0.4	48
122	54.7	0.5	94
142	35.9	0.6	64
158	35.3	0.5	48
120	21.3	0.6	82
129	18.2	0.5	93
116	17.0	0.4	121
110	11.3	0.5	68
98	10.0	0.2	36
126	9.4	0.6	92
64	7.0	0.5	66
152	4.5	0.6	81
105	4.5	0.4	75
139	4.4	0.6	89
153	3.9	0.5	95
136	3.5	0.5	112
103	3.5	0.6	74
159	2.9	0.5	81
156	2.3	0.4	125
141	2.3	0.5	50
125	2.1	0.3	98
154	2.0	0.6	101
144	1.6	0.3	51
150	1.5	0.3	61
8	1.5	0.9	48
143	1.4	0.6	94
12	1.1	0.5	44
51	0.9	0.7	83
109	0.9	0.3	73
146	0.9	0.5	64
47	0.8	1.4	92
117	0.8	0.6	94
114	0.7	0.6	86
88	0.6	0.9	57
46	0.6	0.5	115

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES ATKA MACKEREL

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
7	0.5	0.5	37
48	0.5	0.8	91
92	0.4	0.7	98
102	0.4	0.2	70
68	0.2	0.3	50
62	0.1	0.1	93

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES SHORTSPINE THORNYHEAD

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
140	56.6	0.6	148
151	48.2	0.5	213
107	40.9	0.7	182
128	24.8	0.4	204
25	11.2	1.4	224
24	6.6	0.3	183
127	6.4	0.9	124
131	5.4	1.1	199
86	4.7	0.8	190
112	3.2	0.4	179
138	1.1	1.7	149
79	1.0	0.8	249
118	0.5	0.7	217
87	0.4	0.3	65

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
129	3634.3	0.3	93
138	3044.2	0.7	149
148	2883.0	0.7	99
136	2672.9	0.8	112
149	1486.8	0.5	101
140	1430.8	0.5	148
134	1237.9	0.9	97
120	1030.5	0.5	82
133	875.0	0.0	63
103	852.0	0.5	74
24	702.4	0.8	183
127	676.3	0.3	124
64	469.1	0.3	66
49	334.7	0.2	93
56	267.2	0.3	129
104	264.6	0.5	83
116	169.6	0.3	121
39	82.2	0.1	92
16	78.5	0.7	138
78	75.2	0.8	144
89	54.2	0.3	132
115	53.7	0.8	123
46	48.4	0.6	115
106	38.7	0.3	67
125	38.2	0.3	98
55	37.5	0.3	131
50	32.0	0.3	124
42	31.8	0.9	129
97	30.9	0.2	70
48	29.8	0.2	91
69	27.0	0.5	117
135	26.2	0.3	101
156	19.9	0.6	125
51	19.7	0.2	83
101	15.9	0.2	68
62	15.8	0.3	93
43	15.6	0.4	85
107	13.7	0.7	182
15	12.4	0.2	72
31	10.5	0.5	181
52	10.1	0.3	98
160	9.6	0.6	121
57	7.5	0.2	72
105	7.3	0.5	75
86	6.3	0.7	190
32	4.9	0.1	83
74	4.8	0.6	115
47	3.7	0.4	92

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES PACIFIC OCEAN PERCH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
67	3.1	0.6	209
108	3.0	0.9	113
157	2.2	0.6	53
154	1.9	0.3	101
79	1.9	0.6	249
112	1.9	0.8	179
73	1.8	0.3	99
91	1.7	0.0	85
124	1.5	0.1	108
27	1.4	0.1	42
92	1.4	0.2	98
99	1.3	0.6	203
63	1.2	0.3	102
150	1.2	0.1	61
11	1.2	0.3	77
25	1.2	0.5	224
94	1.1	0.6	132
117	1.1	0.4	94
132	1.0	0.5	88
41	1.0	0.3	127
44	1.0	0.7	178
70	0.9	0.3	56
110	0.8	0.4	68
131	0.7	0.5	199
18	0.6	0.2	47
10	0.5	0.9	85
141	0.5	0.0	50
155	0.5	0.7	182
142	0.5	0.1	64
76	0.5	0.5	47
151	0.4	0.6	213
122	0.4	0.5	94
37	0.3	0.5	228
98	0.3	0.2	36
130	0.2	0.1	66
71	0.2	0.1	64
9	0.1	0.2	49
72	0.1	0.1	65
75	0.1	0.1	51
85	0.1	0.1	65
81	0.1	0.1	80
87	0.1	0.1	65
95	0.1	0.1	96
96	0.0	0.3	120

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES DUSKY ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
120	39.5	1.2	82
64	25.5	1.4	66
104	21.5	1.8	83
105	8.7	1.5	75
27	4.3	0.2	42
43	2.3	1.4	85
101	1.5	1.6	68
103	1.3	1.4	74
151	0.9	1.3	213
110	0.8	1.3	68
92	0.6	1.0	98
11	0.6	0.9	77
9	0.1	0.1	49

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES HARLEQUIN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
104	42.4	0.4	83
120	3.0	0.3	82
136	0.8	0.4	112
140	0.3	0.4	148
105	0.1	0.1	75

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
130	2669.3	0.6	66
129	1057.8	0.5	93
64	452.6	0.3	66
104	284.1	0.5	83
150	219.3	0.3	61
120	209.6	0.6	82
101	206.9	0.5	68
106	129.3	0.5	67
51	89.5	0.6	83
133	69.0	0.5	63
105	44.0	0.6	75
27	27.2	0.2	42
103	26.1	0.5	74
149	25.1	0.6	101
15	12.4	0.4	72
142	10.6	0.3	64
18	8.8	0.3	47
160	6.6	0.5	121
127	6.4	0.5	124
43	6.2	0.9	85
148	5.3	0.5	99
57	3.9	0.3	72
110	3.8	0.3	68
159	3.1	0.5	81
97	3.0	0.3	70
49	2.3	0.6	93
125	1.9	0.4	98
146	1.6	0.5	64
56	1.5	0.6	129
136	1.5	0.7	112
128	1.5	0.9	204
135	1.3	0.5	101
74	1.2	0.3	115
48	1.2	0.3	91
62	1.1	0.4	93
32	0.9	0.6	83
78	0.9	0.3	144
73	0.7	0.3	99
84	0.7	0.3	63
44	0.7	1.0	178
141	0.6	0.3	50
85	0.6	0.2	65
11	0.6	0.9	77
94	0.5	0.8	132
47	0.5	0.2	92
154	0.4	0.4	101
60	0.3	0.5	44
9	0.3	0.2	49

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES NORTHERN ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
21	0.3	0.4	99
98	0.3	0.4	36
153	0.2	0.4	95
71	0.2	0.3	64
55	0.2	0.3	131
17	0.2	0.2	46
89	0.2	0.3	132
126	0.2	0.3	92
76	0.2	0.2	47
12	0.1	0.1	44
96	0.0	0.3	120

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES ROUGH-EYE ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
133	198.3	1.2	63
67	177.5	1.3	209
107	127.7	1.2	182
135	31.9	0.5	101
104	29.6	0.8	83
128	28.1	1.3	204
24	20.4	0.8	183
131	19.6	1.3	199
25	18.2	1.4	224
99	16.6	1.9	203
115	12.7	0.3	123
38	11.5	1.6	209
129	11.3	0.7	93
86	8.2	0.8	190
136	7.1	0.8	112
155	6.4	1.6	182
100	5.3	1.1	87
45	5.0	2.0	206
130	4.7	1.0	66
148	4.6	1.4	99
108	3.9	0.9	113
118	3.5	1.6	217
151	3.2	1.5	213
124	3.0	1.3	108
127	2.3	0.3	124
140	2.2	0.9	148
113	2.1	1.1	46
37	1.6	1.4	228
44	0.9	1.4	178
31	0.7	1.4	181
112	0.7	1.0	179
11	0.6	0.9	77
79	0.6	0.9	249
89	0.4	0.7	132
16	0.3	0.4	138
32	0.3	0.4	83
41	0.2	0.4	127
94	0.1	0.1	132

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES SHORTRAKER ROCKFISH

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
67	112.6	2.3	209
128	25.2	2.2	204
118	15.8	2.7	217
25	14.7	0.7	224
160	13.2	5.0	121
86	9.8	1.4	190
79	7.5	1.3	249
151	6.1	1.2	213
107	5.7	4.1	182
155	5.2	3.9	182
140	4.8	5.9	148
131	4.7	1.1	199
45	3.9	2.1	206
112	3.4	4.5	179
31	3.2	5.9	181
103	3.1	3.2	74
94	0.6	0.9	132

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES NORTHERN SHRIMP (=PINK SHRIMP=)

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
114	3.1	0.0	86
62	0.3	0.0	93
154	0.3	0.0	101
153	0.2	0.0	95
149	0.2	0.1	101
55	0.1	0.0	131
63	0.1	0.0	102
147	0.1	0.0	76
158	0.1	0.1	48
125	0.1	0.0	98
58	0.1	0.0	274
60	0.1	0.1	44
155	0.1	0.1	182
146	0.1	0.1	64
143	0.1	0.0	94
116	0.1	0.0	121

1991 ALEUTIAN IS. TRIENNIAL SURVEY
F/V GREEN HOPE

SPECIES SIDESTRIPE SHRIMP

HAUL	CATCH KG/1.0 NM	AV WGT (KG)	GEAR DEPTH (FM)
67	0.3	0.0	209

Framing lines 89'1"/120'7"

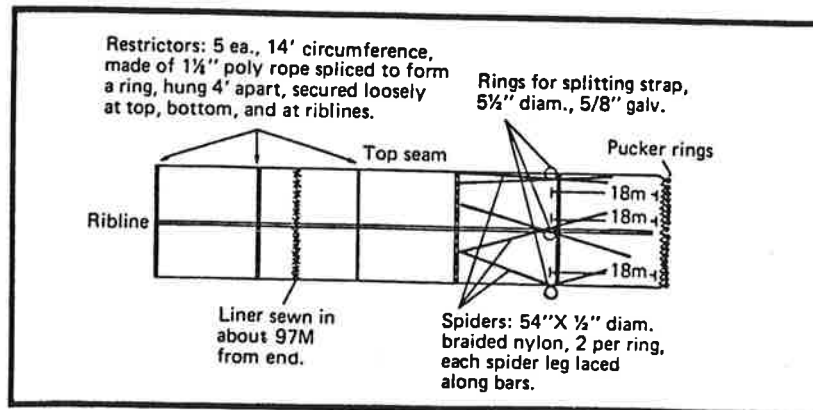
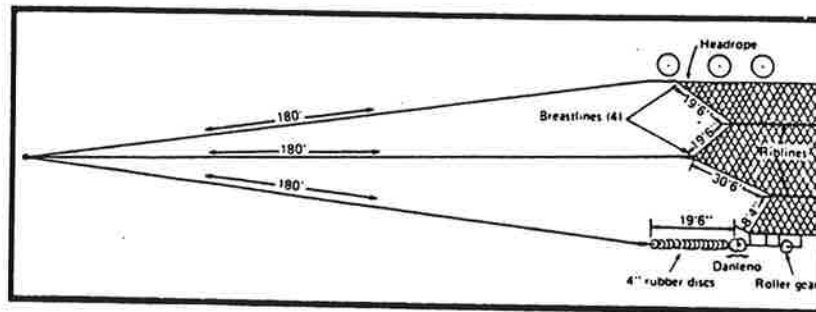
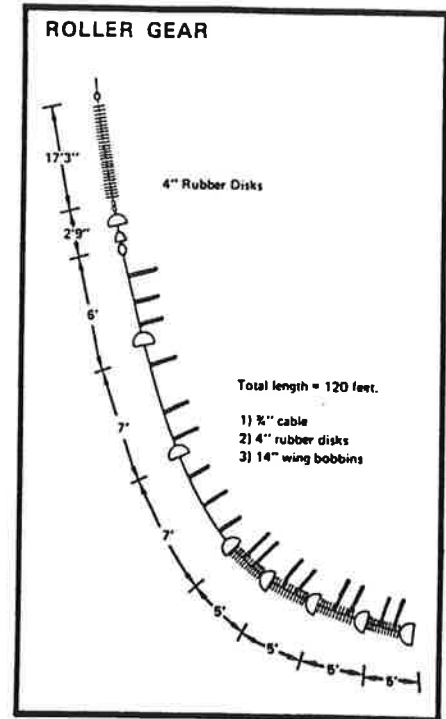
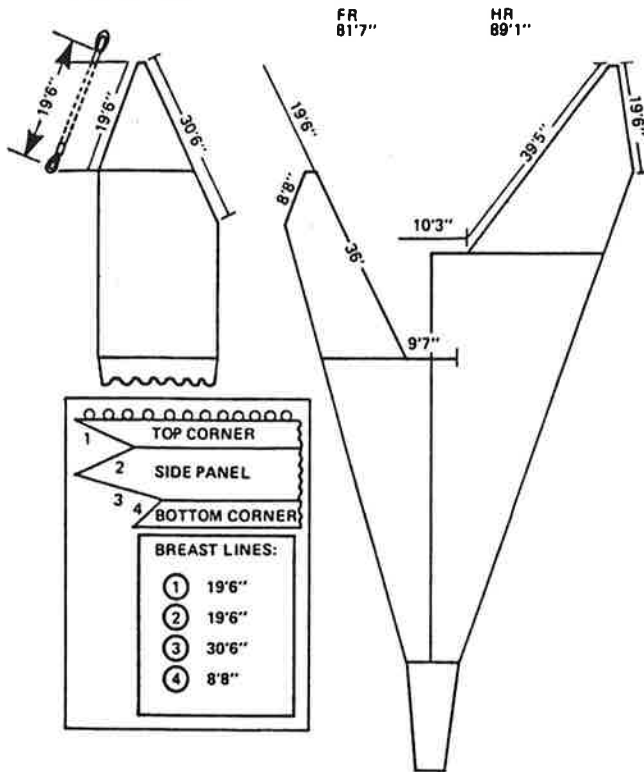


Figure A1.--Schematic diagram of the bottom trawl, roller gear and accessory gear used by the chartered trawlers *Ocean Hope 1* and *Green Hope* during the 1991 triennial bottom trawl survey of the Aleutian Islands.