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TANNER CRAB AND BOTTOMFISH TRAWL SURVEY OF NORTHERN SHELIKOF STRAIT, PAVLOF BAY, THE CHIGNIK AREA, AND BARNABAS GULLY DURING JULY AND AUGUST 1984

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August 1985

ALASKA DEPARTMENT OF FISH AND GAME
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Don W. Collinsworth
Commissioner

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

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Alaska Department of Fish and Game
Division of Commercial Fisheries
Kodiak, Alaska

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ABSTRACT

During July and August of 1984 an otter trawl survey of groundfish and crab was conducted in four areas: northern Shelikof Strait, Pavlof Bay, Chignik and the Barnabas gully area off the east side of Kodiak Island. This report presents the catch data by station, size distribution data obtained for groundfish, and size by sex, age, and survey area for king crab *(Paralithodes camtschatica)* and Tanner crab *(Chionoecetes bairdi)*. Bottom temperatures obtained are compared to those obtained in previous years.

KEY WORDS: trawl survey, Shelikof Strait, Pavlof Bay, Chignik, Barnabas gully, king crab, Tanner crab, groundfish, water temperature.

INTRODUCTION

This report presents the results of trawl surveys conducted by the Alaska Department of Fish and Game from the chartered vessel ROYAL BARON, operated by captain Mickey Serwold from 25 July through 30 August 1984. Areas surveyed included the northern half of Shelikof Strait, hauls 1 through 49, Pavlof Bay, hauls 50 through 70, the Chignik area, hauls 71 through 109, and the Barnabas gully area, hauls 110 through 150 (Figures 1-4).

The primary objective of the survey was to sample the Tanner crab *(Chionoecetes bairdi)* and king crab *(Paralithodes camtschatica)* populations in the areas trawled to obtain: (1) indices of abundance of legal and sublegal males, and (2) indices of abundance and reproductive success for adult females. The secondary objective was to sample the groundfish catch. The groundfish objectives were as follows: (1) estimate the catch amounts of commercially important species; (2) samples lengths of cod *(Gadus macrocephalus)*, sablefish *(Anoplopoma fimbria)*, pollock *(Theragra chalcogramma)*, and all flatfish *(Pleuronectidae)* [except arrowtooth flounder *(Atheresthes stomias)*]; and (3) collect age structures from cod, pollock, and rockfish *(Sebastes* spp.*)*.

This was the fifth consecutive year in which trawl surveys were conducted under a program intended to test the efficacy trawling to index crab abundance for the purpose of setting commercial harvest guidelines. The Shelikof Strait area has been trawled every year since 1980 and the Chignik area has been trawled every year since 1981. Pavlof Bay was surveyed in 1983 and 1984 while 1984 was the first year in which the Barnabas area was surveyed.

METHODS

Sampling

Total catch weight was determined by weighing the cod end of the trawl before and after the catch was dumped using a crane scale accurate to the nearest 4.5 kg (10 lb). All large fish, which would be difficult to subsample, and all fish of special interest were removed from the catch. These included all halibut *(Hippoglossus stenolepis)*, skates, and sharks *(Elasmobranchii)*, cod, sablefish, rockfish, salmon *(Oncorhynchus* spp.*)*, king crab, Tanner crab, Dungeness crab *(Cancer magister)*, weathervane scallops *(Pecten caurinus)*, and occasionally other easy to identify fish, e.g., starry flounder *(Platichthys stellatus)* and Alaska plaice *(Pleuronectes quadrituberculatus)*. Crabs were separated by sex and exoskeletal age. Carapace measurements were taken to the nearest millimeter using vernier calipers. The relative volume of eggs carried by adult females and egg condition were examined. All Tanner crabs infested with *Trichomerus invadens*, commonly known as Black Mat syndrome, were noted. Halibut and big skates *(Raja binoculata)* were measured and returned to the sea; a length-weight relation was used to estimate the weight. The remaining catch was sampled using baskets and shovels. A sample of about 90 to 150 kg was sorted, larger samples were sorted on less diverse catches. Sorted from the samples were all pollock, flatfish, and occasionally sculpins (Cottidae),

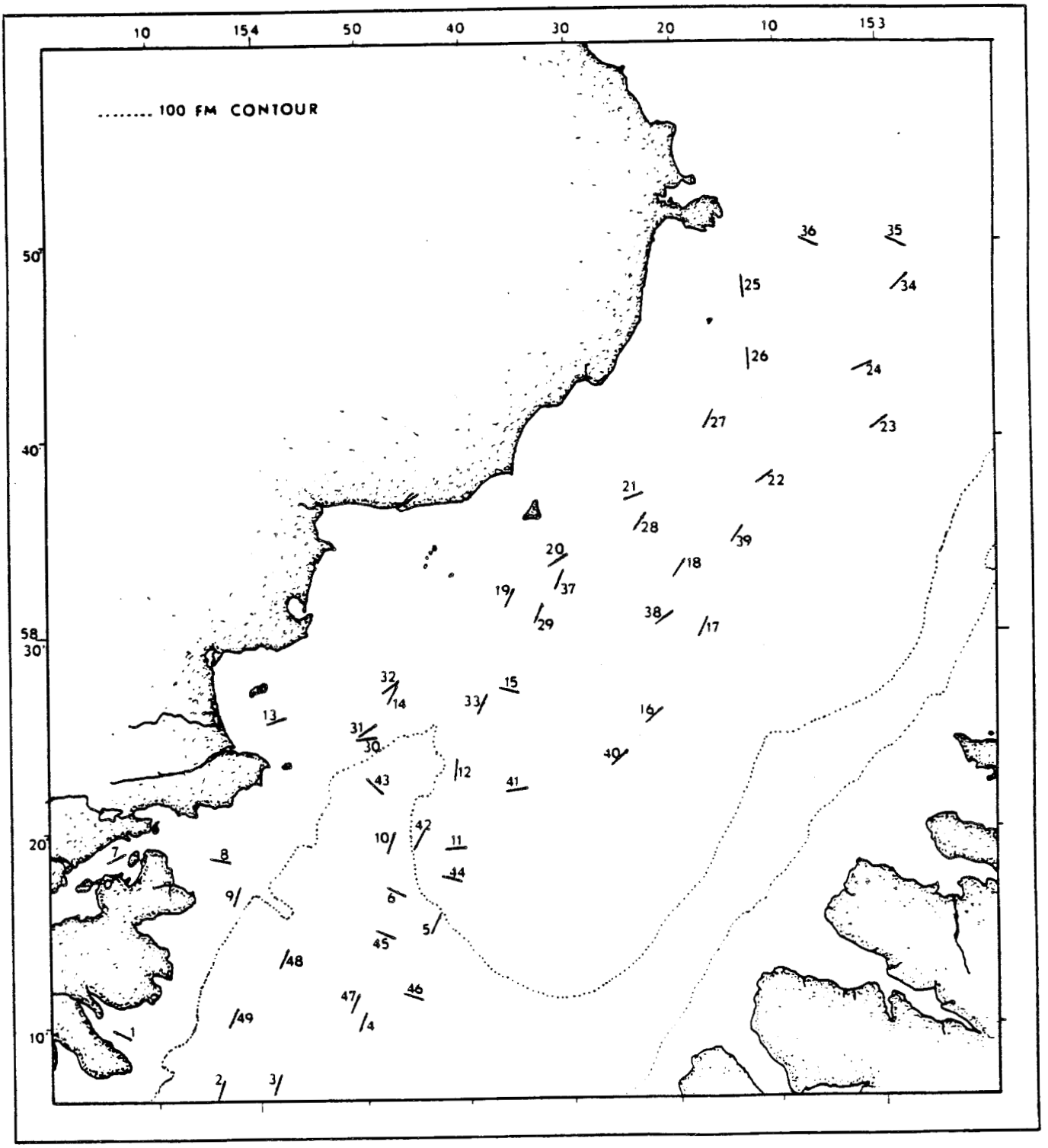

Figure 1. Haul numbers and locations of trawl hauls completed in Shelikof Strait in July and August 1984.

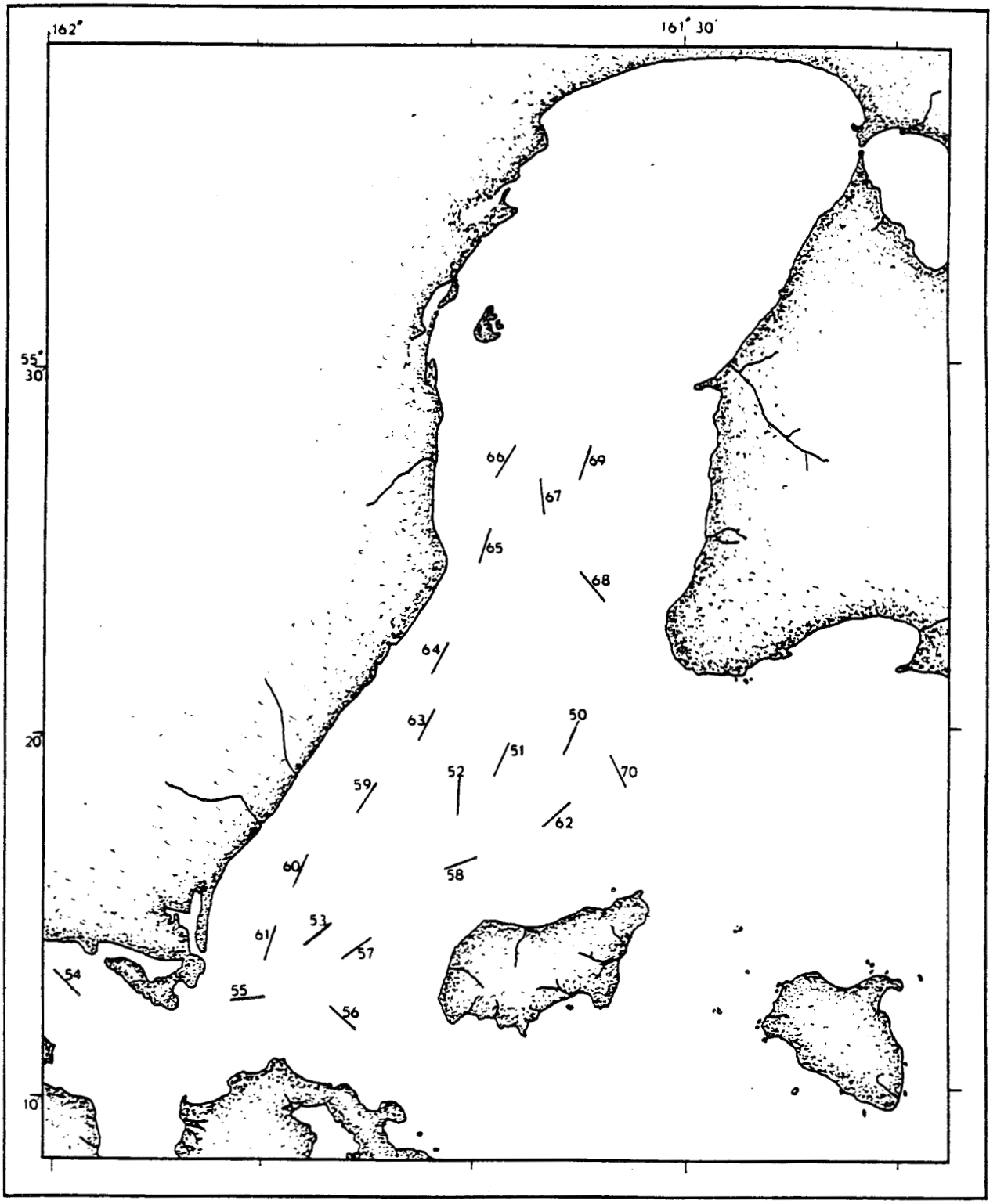

Figure 2. Haul numbers and locations of trawl hauls completed in Pavlof Bay in August 1984.

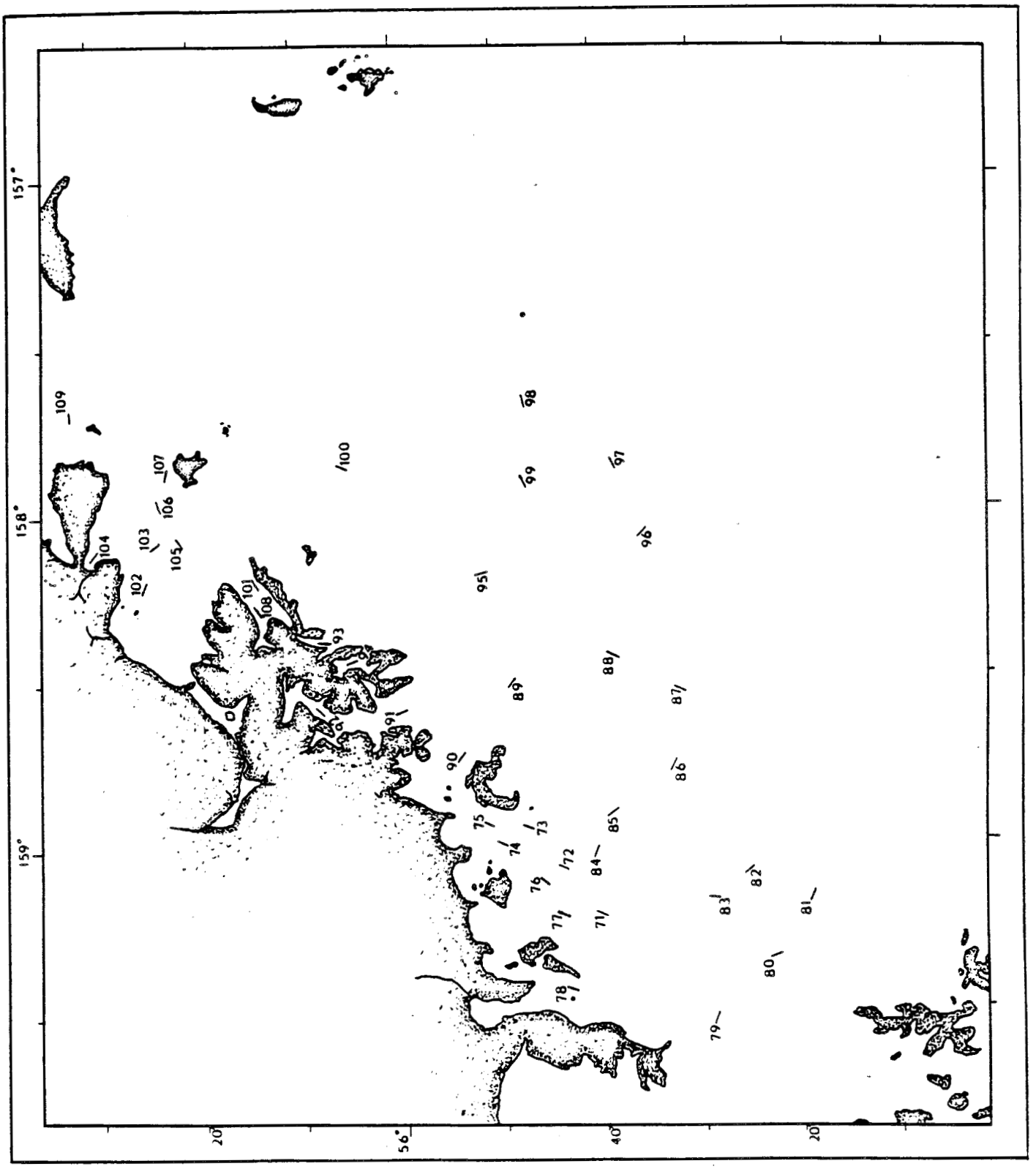

Figure 3. Haul numbers and locations of trawl hauls completed in the Chignik area in August 1984.

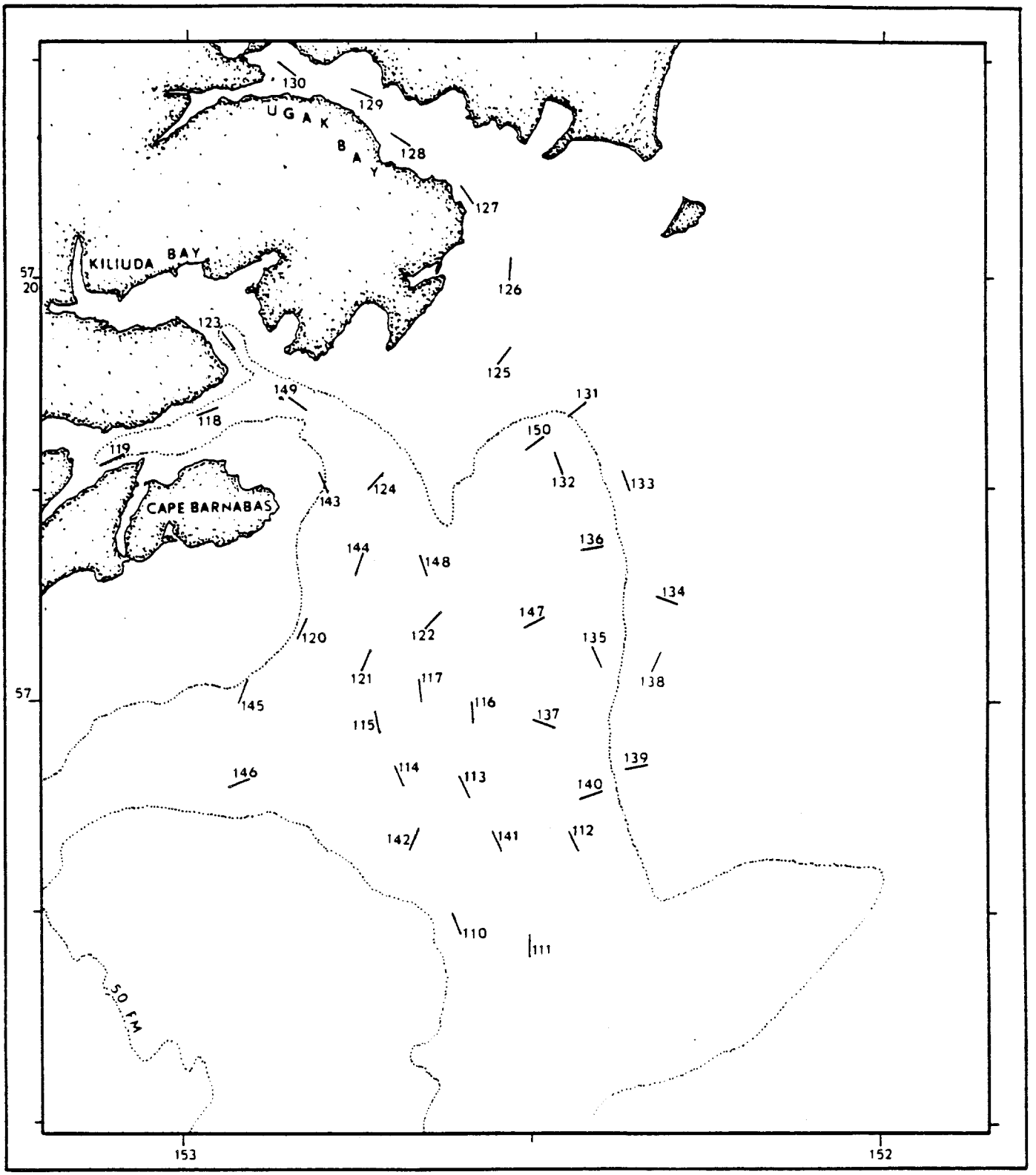

Figure 4. Haul numbers and locations of trawl hauls completed in the Barnabas area in August 1984.

leaving all debris and miscellaneous invertebrates, i.e., shrimp, hermit crabs (Paguridae), starfish, and jellyfish together with commercially unimportant fish such as sculpins, eelpouts (Zoarcidae), smelt (Osmeridae), and sea poachers (Agonidae) in a category of miscellaneous.

Lengths were taken from nearly all cod, rockfish, and sablefish caught and from samples of pollock and each species of flounder caught on each haul. All length measurements of fish were fork length except skate, which were measured from the forward tip of the body to the posterior notch of the pectoral fin. Separate size stratified samples of cod otoliths were collected from Shelikof, Chignik, and Barnabas areas. Random samples of rockfish age structures were collected from all areas and random samples of pollock age structures were collected from Shelikof and Chignik.

Trawl Description

The F/V ROYAL BARON towed a 400 mesh eastern otter trawl net. The net had a 21 m (70 ft) long headrope with 18 floats 20 cm (8 in) in diameter. The footrope was 29 m (95 ft) long without roller gear or ticklers. The two dandylines were 46 m (25 fm) long and consisted of an 18 m (10 fm) section of 16 mm (5/8 in) cable and a pair of 27 m (15 fm) sections of 13 mm (1/2 in) cable, one attached to the top and the other to the bottom of each net wing. The doors were of Astoria "V" type, weighed 340 kg (750 lb) each and measured 1.5 m x 2.1 m (5 ft x 7 ft). The net was constructed with 102 mm (4 in) mesh at the mouth, 89 mm (3-1/2 in) mesh in the body, and the cod end had a 32 mm (1-1/4 in) mesh liner. The net was designed to sweep a 12 m (40 ft) path.

Station Date

The captain recorded all information on trawling location (starting and ending locations in both latitude-longitude and loran), depth (maximum, minimum, and average), time of start of haul, time of end of haul, elapsed time, scope (length of trawl cable out during trawling), performance, trawling speed, trawling direction, date, distance towed, cloud cover, sea state, swell height, and comments. Water temperatures were collected with an expendable bathythermograph which was taken while the trawl was being retrieved.

RESULTS AND DISCUSSION

The haul data is presented in Table 1 and the catch of each species in Table 2. Size frequencies obtained are presented in Table 3. Size by sex, age, and survey area for king and Tanner crab are presented in Tables 4 through 11. Definitiions of terms used for king and Tanner crab are appended. A discussion of Tanner crab results is presented in Colgate, November 1984, 1984 Westward Region Tanner Crab Population Surveys.

Bottom temperatures obtained are compared with those obtained in previous surveys in Figure 5. The 1982 temperatures were distinctly colder than in other years. The temperatures during 1983, when there was a massive "El Nino" in southern waters was only slightly warmer, probably insignificantly so.

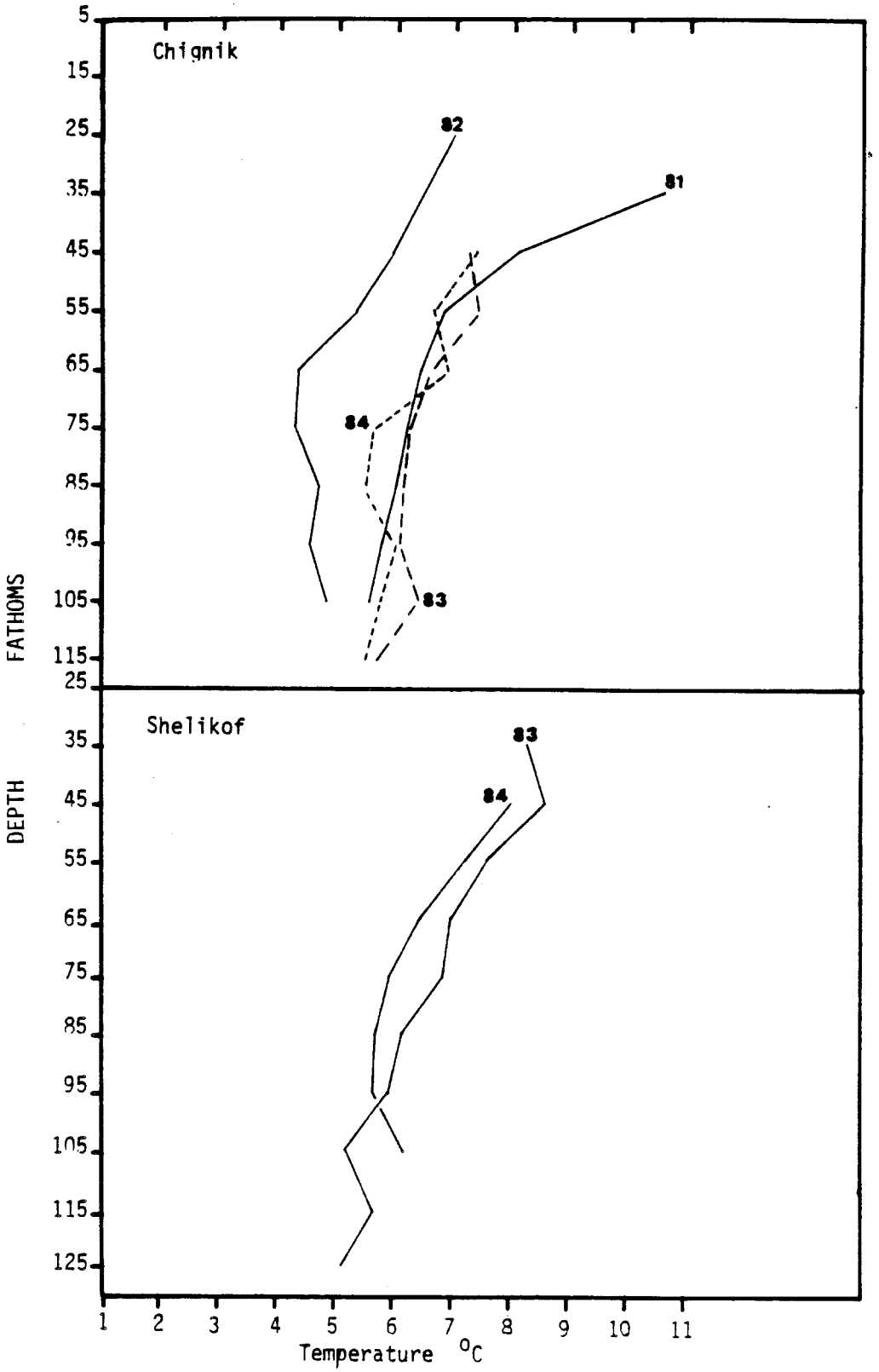

Figure 5. Mean bottom temperature by depth at trawl stations in Chignik and Shelikof in 1981 through 1984. Data were averaged by 10 fathom intervals.

Table 1. Data collected by haul. Consecutive haul number is at the top, latitude and longitude are in degrees, minutes and tenths of minutes, gear depth is in fathoms, temperature is in degrees C at the bottom taken after the completion of the haul, performance of 0 = successful and 1 = unsuccessful, and catch amounts are in kilograms. Catch amounts are as captured, they are not corrected to a standard haul duration.

Table 1.

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	1	2	3	4	5	6	7	8	9	10	11
MONTH/DAY/YEAR	7/25/84	7/25/84	7/25/84	7/25/84	7/25/84	7/25/84	7/26/84	7/26/84	7/26/84	7/26/84	7/26/84
LATITUDE START	58 9.8	58 6.3	58 7.0	58 9.7	58 14.6	58 16.5	58 18.5	58 18.8	58 16.2	58 19.0	58 19.2
LONGITUDE START	154 14.7	154 4.2	153 58.7	153 50.4	153 43.5	153 46.2	154 15.0	154 5.2	154 2.6	153 47.9	153 41.9
GEAR DEPTH	43	133	113	108	98	106	58	44	86	105	87
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
TEMPERATURE	.	.	.	.	.	.	6.2	8.	5.4	6.8	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	289.3	2.5	0.0	2.8	0.0	33.3	15.6	220.1	531.5	13.2	41.2
PACIFIC COD	43.3	1.9	15.9	117.8	12.4	10.0	2.7	24.8	99.4	34.6	42.4
PACIFIC OCEAN PERCH	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	6.8	1.5	2.8	2.5	1.1	0.0	0.0	3.7	0.8	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
SABLEFISH	2.7	35.4	58.1	75.6	39.3	59.2	0.0	1.9	0.0	86.5	30.5
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	10.2	6.9	0.0	4.6	0.0	2.9	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	1.8	19.5	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	147.7	154.7	302.3	462.7	196.3	216.2	0.0	154.4	261.9	365.7	470.3
FLATHEAD SOLE	341.8	33.7	51.1	126.7	21.9	27.7	18.4	674.9	215.2	85.1	113.9
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	38.5	3.4	3.1	0.0	0.0	0.0	0.0	0.0	2.9	6.3	6.1
PACIFIC HALIBUT	97.8	0.0	12.6	39.1	0.0	32.9	4.2	24.0	0.0	14.3	0.0
STARRY FLOUNDER	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	9.6	0.0	0.0	0.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	650.3	191.8	369.1	628.5	218.2	276.8	24.4	923.8	480.0	471.4	590.3
SKATES	67.7	0.0	0.0	0.0	0.0	0.0	6.1	77.2	0.3	5.1	7.2
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	17.9	31.8	20.1	13.3	20.5	37.0	274.2	106.1	103.0	87.8	73.2
KING CRAB	42.3	3.8	0.0	0.0	0.0	0.0	16.8	26.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	7.1	5.9	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.5
OTHER INVERTS	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	60.8	39.3	20.1	13.3	20.5	37.0	298.1	138.5	103.2	87.8	73.7
OTHER	0.0	0.0	8.1	0.0	4.5	24.3	0.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1120.9	282.6	481.0	841.5	300.6	440.6	349.8	1390.0	1215.2	698.9	785.3

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Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	12	13	14	15	16	17	18	19	20	21	22
MONTH/DAY/YEAR	7/26/84	7/27/84	7/27/84	7/27/84	7/27/84	7/27/84	7/27/84	7/28/84	7/28/84	7/28/84	7/28/84
LATITUDE START	58 22.4	58 25.6	58 26.5	58 27.3	58 25.5	58 29.8	58 33.8	58 31.1	58 33.5	58 36.8	58 37.6
LONGITUDE START	153 40.3	153 59.7	153 47.5	153 36.9	153 23.0	153 17.7	153 19.4	153 36.4	153 31.8	153 24.9	153 11.8
GEAR DEPTH	96	50	67	74	97	97	85	60	58	52	91
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
TEMPERATURE	5.3	8.	7.2	6.	5.4	5.4	5.3	6.4	7.1	.	5.5
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	88.4	113.1	50.0	960.0	152.0	172.4	481.8	270.1	48.5	159.2	247.2
PACIFIC COD	58.2	85.9	14.3	84.0	41.8	94.6	134.9	37.0	41.0	66.3	155.4
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	1.5	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	2.3
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	19.7	0.0	2.1	1.7	30.9	72.1	22.6	5.6	13.6	2.7	28.3
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	153.4	0.0	94.9	122.8	518.6	423.1	281.1	107.8	136.3	155.2	520.4
FLATHEAD SOLE	82.6	758.1	71.0	58.4	186.2	94.8	42.5	72.6	120.4	136.2	49.7
ROCK SOLE	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.3
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	19.9	0.0	0.4	0.0	0.0
DOVER SOLE	44.5	0.0	0.0	0.0	10.4	17.2	35.3	0.0	0.0	0.6	16.1
PACIFIC HALIBUT	19.1	80.2	3.0	8.4	36.9	30.2	70.6	19.6	38.1	42.2	105.5
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.7	0.0	0.0	0.0	0.0	10.3	13.2	4.1	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	299.6	847.6	169.6	189.6	752.1	565.3	449.4	210.3	311.0	338.3	694.0
SKATES	5.6	335.6	10.9	0.8	8.4	3.2	12.8	0.0	0.8	45.9	3.8
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	70.9	29.4	49.4	174.3	13.5	5.5	8.0	172.4	95.5	195.2	6.2
KING CRAB	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	1.5	1.1	0.0	0.0	0.0	0.0	10.9	4.6	12.7	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.2	8.2	0.0	0.1	0.2	1.1	1.3	7.8	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0
TOTAL INVERTS	70.9	46.5	50.7	182.5	13.5	5.6	8.2	194.6	101.4	215.7	6.2
OTHER	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	9.4	0.0	0.0
TOTAL CATCH	543.9	1428.7	297.6	1418.8	1000.0	921.2	1109.7	717.6	525.7	828.1	1138.0

- Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	23	24	25	26	27	28	29	30	31	32	33
MONTH/DAY/YEAR	7/28/84	7/28/84	7/29/84	7/29/84	7/29/84	7/29/84	7/29/84	7/30/84	7/30/84	7/30/84	7/30/84
LATITUDE START	58 40.4	58 43.4	58 47.3	58 44.5	58 41.5	58 36.0	58 31.4	58 24.7	58 25.0	58 27.1	58 26.0
LONGITUDE START	153 0.5	153 2.3	153 12.7	153 12.8	153 16.2	153 22.8	153 32.3	153 50.6	153 50.8	153 48.1	153 39.1
GEAR DEPTH	86	98	69	85	59	67	71	70	68	50	74
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
TEMPERATURE	.	.	5.5	.	7.6	7.	5.7	6.1	6.1	.	5.8
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	7.9	245.9	92.5	137.9	137.9	266.2	608.6	14.8	317.6	13.6	1029.5
PACIFIC COD	21.0	25.0	93.5	108.1	54.1	18.2	38.5	3.1	46.6	40.7	79.3
PACIFIC OCEAN PERCH	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	55.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	17.8	3.5	0.0	0.0	9.1	5.9	6.6	0.0	0.5	5.5	0.4
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	618.6	312.4	10.5	73.0	197.6	125.7	141.9	6.4	111.4	103.8	42.4
FLATHEAD SOLE	268.9	47.2	43.2	77.0	329.6	93.3	46.5	4.6	117.4	118.3	69.4
ROCK SOLE	0.0	0.0	2.1	3.7	0.0	0.0	0.0	0.0	0.0	4.1	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	34.4	21.9	1.3	9.2	0.0	0.0	0.0	0.0	0.0	0.6	0.0
PACIFIC HALIBUT	82.9	66.8	23.8	9.4	15.1	7.1	11.7	3.5	5.0	23.4	2.3
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	1.4	0.0	1.3	0.0	0.0	0.0	0.0	4.2	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1004.8	448.3	82.3	172.3	543.6	226.1	200.1	14.5	233.8	254.4	114.1
SKATES	0.0	2.7	82.0	66.0	125.6	0.0	0.0	0.0	34.7	5.9	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	2.0	0.0	953.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	0.4	25.6	102.7	145.9	121.7	43.0	23.7	7.2	109.2	23.9	60.8
KING CRAB	0.0	0.0	8.0	0.0	3.6	0.0	3.9	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	68.3	16.6	29.2	0.0	2.2	0.0	0.0	1.4	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.1	0.0	0.1	1.1	0.1	0.0	0.1	4.3	27.9	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	0.4	25.7	179.0	162.6	155.6	43.1	29.8	7.3	113.5	53.2	60.8
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	3.0	0.0
TOTAL CATCH	1052.9	807.0	529.3	648.9	1027.2	1512.5	885.6	39.7	746.7	376.3	1284.1

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	34	35	36	37	38	39	40	41	42	43	44
MONTH/DAY/YEAR	7/30/84	7/30/84	7/30/84	7/31/84	7/31/84	7/31/84	7/31/84	7/31/84	7/31/84	8/ 1/84	8/ 1/84
LATITUDE START	58 47.7	58 49.7	58 49.8	58 32.2	58 31.3	58 35.5	58 24.1	58 22.1	58 19.1	58 22.8	58 17.7
LONGITUDE START	152 48.6	152 56.9	153 5.8	153 31.3	153 20.3	153 13.5	153 24.9	153 34.3	153 45.1	153 49.8	153 42.3
GEAR DEPTH	96	86	100	67	98	95	100	97	95	110	101
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
TEMPERATURE	6.3	6.4	5.5	6.4	5.5	5.9	.	.	.	.	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	224.6	302.6	87.8	625.5	538.4	107.1	599.6	414.5	215.6	13.1	118.3
PACIFIC COD	19.9	29.8	103.4	68.7	55.2	55.1	57.8	114.2	24.9	17.5	44.5
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	28.1	34.5	14.6	3.5	19.1	86.2	111.7	37.6	118.9	5.1	160.1
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	357.6	200.0	483.1	83.3	489.3	417.4	598.2	363.9	354.2	42.7	574.4
FLATHEAD SOLE	49.6	55.2	35.1	45.5	61.3	144.7	174.9	221.8	203.8	8.1	157.1
ROCK SOLE	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	5.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	87.5	29.7	16.7	0.0	30.0	40.2	15.3	0.0	15.4	0.0	16.1
PACIFIC HALIBUT	4.8	28.3	60.0	17.4	45.6	28.2	31.0	11.3	10.1	3.6	25.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	2.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	504.5	313.2	597.1	153.9	628.9	630.5	819.4	597.0	583.5	54.4	772.6
SKATES	11.1	2.3	15.6	0.0	13.5	9.2	4.8	7.8	14.9	0.0	2.5
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	8.5	21.7	32.5	49.9	14.9	6.5	4.8	17.4	43.6	11.1	16.8
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	2.4	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	8.5	21.7	32.5	52.3	14.9	7.3	4.8	17.4	43.6	11.1	16.8
OTHER	0.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0	6.0	0.0	13.0
TOTAL CATCH	796.7	711.7	856.0	903.9	1270.0	895.4	1603.1	1193.5	1007.4	101.2	1127.8

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	45	46	47	48	49	50	51	52	53	54	55
MONTH/DAY/YEAR	8/ 1/84	8/ 1/84	8/ 1/84	8/ 1/84	8/ 2/84	8/ 6/84	8/ 6/84	8/ 6/84	8/ 6/84	8/ 6/84	8/ 7/84
LATITUDE START	58 14.5	58 11.4	58 10.8	58 13.0	58 10.0	55 20.2	55 19.6	55 18.7	55 14.6	55 13.4	55 12.6
LONGITUDE START	153 47.1	153 44.5	153 51.4	153 58.1	154 3.0	161 35.0	161 38.1	161 40.4	161 46.5	161 59.4	161 51.3
GEAR DEPTH	107	108	110	130	134	56	54	55	54	42	54
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
TEMPERATURE	.	.	.	.	.	4.2	.	.	4.4	4.7	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	62.2	34.5	83.9	17.4	0.0	117.8	279.2	173.6	804.9	140.8	286.3
PACIFIC COD	213.0	41.2	127.9	40.5	18.7	146.3	146.9	217.6	323.3	97.4	204.8
PACIFIC OCEAN PERCH	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.8	0.5	1.6	0.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	188.1	90.0	70.5	34.1	42.5	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	0.0	0.0	92.4	125.9	103.0	124.4	196.4	39.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	358.2	265.5	342.4	449.1	933.1	170.4
ARROWTOOTH FLOUNDER	964.7	692.7	717.7	190.8	259.7	10.4	15.6	14.4	23.3	8.2	13.6
FLATHEAD SOLE	140.0	50.9	80.2	51.7	19.8	285.6	223.5	453.8	355.8	189.9	394.4
ROCK SOLE	0.0	0.0	0.0	0.0	0.0	34.9	4.9	32.3	3.9	149.0	2.9
REX SOLE	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DOVER SOLE	0.0	0.0	0.0	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC HALIBUT	64.9	116.9	23.2	17.2	22.1	15.4	12.0	14.6	10.1	16.9	44.9
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	6.0	9.3	2.5	9.1	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1172.0	860.5	821.1	261.6	303.8	704.5	527.5	866.8	844.7	1306.9	626.2
SKATES	3.2	5.1	0.0	24.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	21.5	0.4	4.5	12.3	12.8	57.7	30.6	15.5	33.2	71.7	23.4
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.5	208.1	60.9	8.3
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0
TOTAL INVERTS	21.5	0.4	4.5	12.3	12.8	57.7	30.6	117.9	241.3	133.1	31.7
OTHER	4.1	0.0	12.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.3
TOTAL CATCH	1665.6	1032.2	1121.5	391.0	397.1	1118.7	1110.1	1479.5	2338.6	1874.6	1188.3

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	56	57	58	59	60	61	62	63	64	65	66
MONTH/DAY/YEAR	8/ 7/84	8/ 7/84	8/ 7/84	8/ 7/84	8/ 7/84	8/ 8/84	8/ 8/84	8/ 8/84	8/ 8/84	8/ 8/84	8/ 8/84
LATITUDE START	55 11.7	55 13.6	55 16.4	55 18.5	55 16.5	55 13.7	55 17.3	55 20.5	55 22.4	55 25.5	55 27.8
LONGITUDE START	161 45.4	161 46.1	161 39.7	161 44.4	161 47.5	161 49.7	161 36.5	161 41.6	161 41.0	161 39.0	161 38.0
GEAR DEPTH	61	64	61	62	55	52	58	67	66	57	47
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.30	0.50	0.50	0.50	0.50	0.50
TEMPERATURE	.	4.3	.	.	4.2	.	.	4.2	.	.	4.5
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	1197.0	1264.9	210.3	711.7	777.0	317.1	75.3	389.8	414.0	512.9	970.7
PACIFIC COD	531.9	400.5	164.6	104.7	157.8	120.1	271.1	116.6	144.2	118.3	89.0
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	111.5	122.5	181.0	35.5	101.6	96.1	183.4	84.2	72.4	41.0	102.6
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	95.0	134.0	458.4	238.4	256.3	334.0	357.2	584.7	406.7	847.4	780.7
ARROWTOOTH FLOUNDER	3.7	38.3	122.4	113.3	24.2	34.8	30.1	2.2	3.1	3.2	0.0
FLATHEAD SOLE	341.7	273.7	666.9	478.4	348.2	325.5	418.7	737.6	161.5	184.6	79.8
ROCK SOLE	0.0	0.0	82.7	3.4	4.8	13.2	15.1	13.3	6.2	4.7	11.4
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
PACIFIC HALIBUT	9.6	83.7	10.4	8.0	35.0	2.8	19.7	54.9	7.8	0.0	39.4
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.7	11.2	13.4	3.1	1.5	8.6	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	450.0	529.7	1341.5	852.7	681.9	713.4	842.3	1401.3	585.3	1039.9	911.3
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	81.7	388.8	18.6	33.0	15.9	17.0	41.1	141.2	303.3	136.9	35.8
KING CRAB	128.9	30.2	21.6	44.3	3.7	235.3	37.3	47.4	203.1	155.8	437.4
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	1.1
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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	11.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	210.6	430.0	45.6	77.3	19.6	252.3	78.4	188.6	506.8	293.2	474.3
OTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
TOTAL CATCH	2501.0	2747.6	1943.0	1781.9	1737.9	1499.0	1451.3	2180.5	1722.7	2005.3	2547.9

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	67	68	69	70	71	72	73	74	75	76	77
MONTH/DAY/YEAR	8/ 9/84	8/ 9/84	8/ 9/84	8/ 9/84	8/10/84	8/10/84	8/10/84	8/11/84	8/11/84	8/11/84	8/11/84
LATITUDE START	55 26.9	55 23.5	55 27.8	55 19.3	55 39.6	55 43.5	55 47.0	55 50.5	55 50.9	55 45.3	55 43.6
LONGITUDE START	161 36.6	161 33.8	161 34.4	161 33.3	159 12.5	159 4.1	158 56.9	158 59.2	158 56.5	159 6.6	159 12.7
GEAR DEPTH	43	44	38	55	57	73	71	65	67	52	55
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.30	0.50	0.50	0.50	0.50	0.50
TEMPERATURE	.	5.	.	4.3	.	.	.	.	.	.	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	74.8	80.6	9.3	347.0	5.1	90.2	558.6	2351.0	290.8	3.7	2176.3
PACIFIC COD	122.4	73.2	55.1	91.0	47.3	62.3	141.0	97.2	121.0	77.5	69.5
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	0.0	0.0	3.2	2.7	1.9	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.3	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	2.3	10.2	1.7	2.3	1.7	0.5	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	70.9	131.9	42.9	129.8	13.1	24.1	34.0	16.1	37.1	58.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
YELLOWFIN SOLE	995.2	540.9	1569.2	259.5	15.4	0.0	0.0	0.0	6.2	5.1	6.9
ARROWTOOTH FLOUNDER	0.0	0.0	1.9	13.1	313.4	176.6	558.6	236.7	220.7	239.6	67.0
FLATHEAD SOLE	94.5	48.3	48.5	164.0	82.0	104.6	387.1	365.4	375.3	130.8	36.1
ROCK SOLE	15.8	1.0	0.0	4.0	21.7	0.0	90.0	0.0	0.0	19.8	0.0
REX SOLE	0.0	0.0	0.0	0.0	3.4	0.0	15.3	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
PACIFIC HALIBUT	10.0	8.9	5.2	12.2	3.5	44.6	32.1	21.0	118.2	44.4	53.5
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	1.8	0.0	0.6	2.3	0.0	0.0	3.4	0.0	0.0	28.1	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1117.3	599.1	1625.4	455.1	439.4	325.8	1086.5	623.1	720.4	467.8	163.5
SKATES	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.5	24.9	1.8	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	136.1	0.0	0.0	0.0
TANNER CRAB	32.8	171.5	15.7	204.3	1.3	0.2	8.7	9.3	4.0	1.2	1.8
KING CRAB	1027.9	62.9	887.7	6.0	0.0	0.0	0.0	68.3	0.0	0.0	0.0
DUNGENESS CRAB	0.7	12.4	24.8	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	224.5	0.0	9.9	0.0	0.0	61.2	2.1
OTHER INVERTS	0.0	0.0	0.0	21.4	0.0	0.0	0.0	57.5	0.0	0.0	0.0
TOTAL INVERTS	1061.4	246.8	928.2	231.7	225.8	0.2	18.6	135.1	4.0	62.4	3.9
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	2446.8	1131.6	2661.2	1254.6	733.0	516.0	1845.1	3372.3	1199.9	671.7	2424.4

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85 PROGRAM GF22

HAUL NO.	78	79	80	81	82	83	84	85	86	87	88
MONTH/DAY/YEAR	8/11/84	8/12/84	8/12/84	8/12/84	8/12/84	8/12/84	8/13/84	8/13/84	8/13/84	8/13/84	8/13/84
LATITUDE START	55 43.0	55 29.0	55 23.3	55 19.0	55 25.0	55 28.3	55 40.8	55 39.3	55 33.0	55 31.4	55 39.0
LONGITUDE START	159 25.7	159 31.9	159 20.2	159 10.7	159 4.1	159 9.5	159 2.2	158 54.8	158 47.0	158 33.0	158 25.3
GEAR DEPTH	58	85	86	99	96	79	81	84	83	78	73
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
TEMPERATURE	6.3	5.7	.	.	5.6	.	.	5.7	.	5.6	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	181.5	333.6	101.8	8.4	17.4	56.6	38.5	621.7	299.6	182.8	0.0
PACIFIC COD	53.5	48.0	47.2	30.8	18.6	41.4	49.6	119.6	95.6	76.8	60.1
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	1.8	0.0	0.0	2.7	1.7	14.0	31.7	12.2	30.4	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	1.2	15.4	94.6	74.2	44.2	23.3	29.1	38.8	47.8	21.1
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
SCULPINS	41.1	1.4	2.3	71.6	1.4	15.4	4.5	1.2	47.3	1.7	16.3
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	66.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	153.7	279.2	175.2	412.3	177.8	209.0	268.8	392.0	326.2	319.0	339.6
FLATHEAD SOLE	772.0	111.0	153.2	151.7	108.7	104.7	247.0	140.3	82.1	124.6	41.0
ROCK SOLE	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REX SOLE	0.0	6.4	1.2	0.0	1.9	4.7	0.0	0.0	3.0	5.0	7.1
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC HALIBUT	25.7	69.3	63.1	0.0	32.9	73.4	65.6	59.5	125.3	24.7	36.4
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	1029.8	465.9	392.7	564.0	321.3	391.8	581.4	591.8	536.6	473.3	424.1
SKATES	32.3	2.2	16.9	14.0	2.0	1.1	2.0	2.6	1.6	0.0	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0
TANNER CRAB	5.5	7.9	0.2	2.9	3.9	0.2	6.1	2.0	5.3	3.7	0.8
KING CRAB	13.9	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3
TOTAL INVERTS	19.7	7.9	0.2	2.9	3.9	0.5	6.1	2.0	5.3	3.7	23.1
OTHER	0.0	0.0	0.0	0.0	5.0	0.0	8.0	0.0	0.0	0.0	0.0
TOTAL CATCH	1357.9	862.0	576.9	786.3	446.5	552.7	729.9	1400.8	1037.0	816.5	544.7

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85 PROGRAM GF22

HAUL NO.	89	90	91	92	93	94	95	96	97	98	99
MONTH/DAY/YEAR	8/13/84	8/14/84	8/14/84	8/14/84	8/14/84	8/14/84	8/15/84	8/15/84	8/15/84	8/15/84	8/15/84
LATITUDE START	55 48.7	55 53.8	56 0.3	56 8.1	56 8.0	56 5.7	55 42.1	55 36.0	55 38.1	55 47.5	55 47.3
LONGITUDE START	158 30.3	158 43.6	158 35.8	158 34.8	158 23.7	158 27.7	158 11.8	158 4.5	157 52.8	157 38.9	157 54.1
GEAR DEPTH	67	82	80	83	47	65	67	72	72	66	65
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
TEMPERATURE	6.8	.	.	5.1	.	.	.	5.4	.	7.1	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	121.5	52.3	648.7	291.0	57.0	17.8	6.2	76.3	6.5	0.0	4.6
PACIFIC COD	574.8	95.2	15.8	212.3	0.0	59.2	87.8	37.8	90.6	423.4	366.4
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.8	17.9	0.0	0.0	0.0	0.0	18.1	2.3	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	15.3	0.0	0.0	0.0	0.0	0.0	8.2	0.0	10.7	2.7	1.4
ATKA MACKEREL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCULPINS	27.7	5.3	0.0	97.1	27.0	74.4	0.0	10.1	0.0	0.0	10.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	101.0	217.5	54.7	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	310.3	156.0	1843.9	195.3	120.9	38.1	435.8	255.4	254.7	1732.7	313.1
FLATHEAD SOLE	124.0	488.3	580.0	607.6	423.5	388.5	112.2	77.2	83.0	154.6	21.1
ROCK SOLE	7.6	0.0	0.0	0.0	0.0	11.7	0.0	3.1	0.0	30.5	22.0
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.3	3.3	0.0	14.1
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC HALIBUT	51.2	70.4	7.9	7.2	19.5	32.4	77.1	79.3	62.8	8.5	9.2
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	493.1	714.7	2431.8	916.1	781.4	525.4	627.0	420.3	403.8	1926.3	379.5
SKATES	0.2	0.0	10.7	0.0	78.2	6.8	0.0	0.0	0.0	1.4	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	12.5	7.0	16.2	99.6	0.1	65.8	0.1	0.0	0.2	0.0	1.6
KING CRAB	0.0	0.0	0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	6.7	0.5	0.0	0.0	0.0	0.0	0.0
PINK SHRIMP	0.0	0.0	0.0	41.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	5.2	0.3
OTHER INVERTS	0.0	0.0	0.0	0.0	81.2	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	12.7	7.0	16.2	144.1	88.0	81.4	0.3	0.0	0.2	5.2	1.9
OTHER	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
TOTAL CATCH	1245.3	875.6	3141.1	1660.6	1031.6	765.0	729.5	562.6	514.5	2359.0	763.8

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	100	101	102	103	104	105	106	107	108	109	110
MONTH/DAY/YEAR	8/16/84	8/16/84	8/17/84	8/17/84	8/17/84	8/17/84	8/17/84	8/17/84	8/19/84	8/19/84	8/20/84
LATITUDE START	56 6.1	56 13.8	56 25.5	56 23.8	56 30.5	56 21.2	56 23.6	56 23.1	56 13.9	56 32.5	56 49.0
LONGITUDE START	157 51.5	158 12.8	158 14.3	158 4.3	158 7.3	158 5.5	157 59.0	157 52.6	158 16.2	157 42.4	152 36.0
GEAR DEPTH	98	56	77	100	50	75	110	150	42	53	68
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
TEMPERATURE	6.5	.	6.	.	7.	.	5.5	.	7.4	7.	6.1
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	392.5	14.0	553.3	74.7	281.9	117.2	425.2	59.1	73.8	502.0	133.5
PACIFIC COD	23.5	20.8	77.2	153.7	9.0	0.0	99.8	12.4	41.7	11.5	52.4
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	4.3	0.0	0.0	2.9	0.0	0.0	17.6	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	0.0	0.0	0.0	0.0	5.5	6.1	0.0	1.3	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	1.5	37.9	71.6	0.0	7.0	0.0	0.0	15.7	132.9	7.3	3.8
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	25.3	12.7	0.0	356.6	0.0	0.0	0.0	1233.4	36.7	0.0
ARROWTOOTH FLOUNDER	140.2	99.0	273.5	158.5	424.2	285.6	246.2	108.3	98.4	281.6	403.4
FLATHEAD SOLE	90.1	439.0	702.8	362.2	548.3	563.8	298.7	229.1	177.1	274.3	163.6
ROCK SOLE	0.0	0.0	0.0	0.0	250.9	0.0	0.0	0.0	8.2	153.0	0.0
REX SOLE	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8
DOVER SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	44.5
PACIFIC HALIBUT	98.4	17.0	31.7	17.2	43.8	35.8	54.7	57.2	81.4	142.1	22.4
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	2.3	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	8.7	0.9	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL FLATFISH	337.7	580.3	1020.7	537.9	1624.9	885.2	599.6	398.8	1631.4	890.9	695.7
SKATES	0.0	41.7	0.0	0.0	267.3	0.0	0.0	0.0	148.3	12.7	7.8
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TANNER CRAB	5.3	30.6	17.7	53.6	0.0	23.7	9.7	22.7	1.9	16.3	30.1
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	5.1	0.0	0.0	5.4	0.0	0.0	0.0	5.2	6.5	0.0
PINK SHRIMP	0.0	0.0	0.0	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SIDE STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.3
OTHER INVERTS	0.0	41.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	5.5	77.1	17.7	95.2	5.4	23.7	9.7	22.7	7.1	23.0	37.4
OTHER	0.0	0.0	0.0	1.5	0.0	0.0	8.0	0.0	0.0	0.0	0.0
TOTAL CATCH	765.0	771.8	1740.5	865.9	2201.0	1032.2	1159.9	510.0	2035.2	1447.4	930.6

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	111	112	113	114	115	116	117	118	119	120	121
MONTH/DAY/YEAR	8/20/84	8/20/84	8/20/84	8/20/84	8/21/84	8/21/84	8/21/84	8/21/84	8/21/84	8/22/84	8/22/84
LATITUDE START	56 48.0	56 53.0	56 55.5	56 56.0	56 58.5	56 59.0	57 0.0	57 14.0	57 11.3	57 3.0	57 1.5
LONGITUDE START	152 30.3	152 26.0	152 35.3	152 41.0	152 43.0	152 35.0	152 39.5	152 57.0	153 7.0	152 50.0	152 44.5
GEAR DEPTH	80	84	85	78	81	82	83	63	68	86	83
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
TEMPERATURE	.	5.9	.	.	.	.	.	8.2	.	6.	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	0.0	49.7	26.3	457.6	13.2	298.1	367.4	137.7	91.4	1948.1	1331.0
PACIFIC COD	25.9	8.4	51.6	40.8	59.0	7.5	10.8	31.9	23.4	202.1	25.9
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	6.2	26.7	57.0	47.1	19.8	28.8	34.4	0.0	0.4	0.0	5.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	1.3	3.0	13.9	9.3	8.3	18.3	11.8	0.0	0.0	15.3	13.7
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	1.3	0.0	0.0	0.0	0.0	0.0	45.9	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	351.1	989.3	1428.1	761.0	1282.8	1116.0	2425.1	162.8	203.2	609.3	984.1
FLATHEAD SOLE	138.1	236.8	298.8	467.8	323.0	323.2	306.9	971.5	2479.2	212.9	416.0
ROCK SOLE	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	24.4	0.0	0.0
REX SOLE	21.9	6.4	25.0	56.1	5.3	15.8	19.5	0.0	2.0	0.0	0.0
DOVER SOLE	21.3	0.0	5.3	0.0	89.6	19.8	43.2	0.0	0.0	49.3	32.5
PACIFIC HALIBUT	26.2	1.0	158.5	182.9	132.5	123.9	85.6	60.7	0.0	5.4	35.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.1	0.0	0.0
TOTAL FLATFISH	558.6	1233.5	1915.7	1471.6	1833.2	1598.7	2880.3	1273.2	2714.5	876.9	1467.6
SKATES	6.5	14.6	1.6	11.6	0.0	1.8	7.0	60.5	5.4	9.8	0.0
OTHER ELASMOBRANCHS	0.0	0.0	0.0	0.0	2.7	0.0	0.0	11.8	1.8	0.0	0.0
TANNER CRAB	19.5	36.1	45.5	19.4	43.7	14.7	36.9	35.6	6.6	90.4	105.8
KING CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0	10.7	0.0
DUNGENESS CRAB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.7	2.2	0.9	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	19.5	36.1	45.5	19.4	43.7	14.7	36.9	117.0	8.8	102.0	105.8
OTHER	0.0	11.1	1.3	7.0	6.0	8.0	8.0	0.0	7.0	0.0	0.0
TOTAL CATCH	618.0	1384.4	2112.9	2064.4	1985.9	1975.9	3356.6	1678.0	2852.7	3154.2	2949.0

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85

PROGRAM GF22

HAUL NO.	122	123	124	125	126	127	128	129	130	131	132
MONTH/DAY/YEAR	8/22/84	8/22/84	8/23/84	8/23/84	8/23/84	8/23/84	8/24/84	8/24/84	8/24/84	8/27/84	8/27/84
LATITUDE START	57 3.5	57 17.5	57 10.6	57 16.0	57 19.8	57 23.4	57 26.6	57 28.5	57 30.2	57 13.6	57 10.8
LONGITUDE START	152 39.0	152 56.5	152 44.0	152 33.0	152 32.0	152 35.3	152 42.3	152 45.5	152 51.8	152 27.0	152 27.5
GEAR DEPTH	80	53	75	55	53	54	53	48	43	43	60
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
TEMPERATURE	.	.	6.2	.	.	.	.	.	.	.	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	686.8	134.8	612.6	42.7	294.8	41.6	43.8	178.1	24.3	15.2	9.3
PACIFIC COD	41.9	130.8	92.3	1.2	21.0	29.4	4.5	16.6	53.6	21.2	3.8
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	124.8	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
SABLEFISH	36.9	4.3	1.8	2.7	0.0	0.0	0.4	4.9	2.9	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	30.2	74.2	0.0	0.0	40.8	0.9	0.0	0.0	0.0	1.3
OTHER ROUNDFISH	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	7.2	0.0	158.1	51.2	118.5	60.9	41.1	2.2
ARROWTOOTH FLOUNDER	1337.0	100.6	482.2	38.8	147.2	76.3	36.3	49.7	27.2	103.8	272.8
FLATHEAD SOLE	440.2	1004.9	313.7	795.6	90.5	482.7	955.8	306.4	275.9	9.2	129.3
ROCK SOLE	0.0	7.0	49.8	3.9	0.0	31.6	58.7	24.6	5.9	215.1	31.1
REX SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	66.6
DOVER SOLE	184.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
PACIFIC HALIBUT	117.4	9.9	33.8	35.5	58.0	21.6	3.4	26.5	20.3	30.4	3.9
STARRY FLOUNDER	0.0	2.8	4.5	7.9	2.5	3.0	6.6	16.6	0.0	8.3	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	2.1	0.0	2.5	11.6	72.7	2.2	0.0	208.1	74.1
TOTAL FLATFISH	2079.1	1125.2	886.1	888.9	300.7	786.2	1184.7	544.5	390.2	616.9	588.4
SKATES	26.4	313.1	21.1	14.0	13.6	0.0	20.5	4.7	0.0	0.0	24.1
OTHER ELASMOBRANCHS	0.0	8.7	2.1	7.1	7.8	8.4	1.1	0.0	0.0	0.0	1.2
TANNER CRAB	30.7	1.2	293.9	13.8	55.0	4.8	1.9	5.5	145.1	58.9	58.6
KING CRAB	0.0	310.0	54.4	85.4	16.3	32.0	0.0	0.0	6.6	39.6	15.8
DUNGENESS CRAB	0.0	11.9	3.6	17.0	18.2	18.8	17.0	9.0	4.4	9.4	5.0
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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	133.4	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	30.7	323.1	351.9	116.2	89.5	190.9	18.9	14.5	156.1	107.9	79.4
OTHER	6.0	1.0	14.1	0.0	10.0	10.8	0.9	0.0	0.3	0.5	0.0
TOTAL CATCH	3032.8	2071.8	2057.4	1072.8	737.4	1108.4	1275.9	763.3	627.4	761.7	707.5

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85 PROGRAM GF22

HAUL NO.	133	134	135	136	137	138	139	140	141	142	143
MONTH/DAY/YEAR	8/27/84	8/27/84	8/27/84	8/27/84	8/28/84	8/28/84	8/28/84	8/28/84	8/28/84	8/28/84	8/29/84
LATITUDE START	57 10.0	57 4.7	57 1.7	57 7.5	56 58.8	57 2.3	56 57.0	56 55.8	56 53.0	56 53.0	57 10.4
LONGITUDE START	152 21.5	152 17.5	152 24.0	152 23.5	152 28.0	152 19.0	152 20.0	152 24.0	152 32.5	152 40.3	152 47.5
GEAR DEPTH	43	41	67	76	74	42	43	73	93	85	68
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
TEMPERATURE	.	.	.	6.2	6.	.	7.7	.	.	5.5	7.5
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	0.0	0.0	4.6	294.1	849.0	0.0	0.7	644.1	36.6	29.6	165.3
PACIFIC COD	32.5	38.0	2.0	50.3	357.9	0.0	0.3	202.1	2.2	0.0	29.3
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0	3.5	0.0
DUSKY ROCKFISH	4.7	0.0	6.4	1.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0
OTHER ROCKFISH	0.1	0.0	1.6	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0
SABLEFISH	1.0	0.0	0.6	0.7	5.7	0.0	0.0	17.9	63.1	2.3	3.0
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	20.7	0.0	36.7	24.7	0.0	0.2	0.0	0.0	4.2	5.7	77.4
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	82.8	1.2	245.5	599.2	788.6	10.2	2.5	294.3	1189.6	134.9	262.7
FLATHEAD SOLE	11.2	0.0	171.0	713.2	189.0	0.0	0.0	23.1	85.7	54.0	306.2
ROCK SOLE	491.1	150.5	6.6	0.0	0.0	46.0	19.0	22.4	0.0	0.0	32.5
REX SOLE	0.0	0.0	164.3	159.4	45.9	0.0	0.0	95.6	5.8	5.1	0.0
DOVER SOLE	0.0	0.0	59.7	0.0	53.8	0.0	0.0	22.4	0.0	15.8	0.0
PACIFIC HALIBUT	9.7	101.5	23.6	23.1	166.6	120.1	51.8	43.9	33.7	0.0	53.5
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	78.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
TOTAL FLATFISH	673.4	253.4	670.7	1494.9	1243.9	176.3	73.3	501.7	1314.8	209.8	657.1
SKATES	16.7	0.0	3.7	17.0	0.0	0.0	0.0	3.0	3.9	0.0	83.3
OTHER ELASMOBRANCHS	3.0	0.0	0.0	2.1	0.0	7.2	0.0	3.2	2.5	0.0	3.2
TANNER CRAB	0.0	0.0	161.6	90.1	34.9	0.0	0.0	4.7	45.5	2.5	240.8
KING CRAB	0.0	0.0	8.7	98.0	71.0	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	18.0
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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL INVERTS	0.0	0.2	170.3	188.1	105.9	0.0	0.0	4.7	45.5	2.5	258.8
OTHER	5.3	0.0	0.0	0.0	2.6	6.6	0.4	0.0	6.0	5.0	60.0
TOTAL CATCH	757.4	291.6	896.6	2073.6	2570.5	190.3	74.7	1377.2	1536.8	258.8	1337.4

-Continued-

Table 1 (continued).

FISHING LOG FOR CRUISE 84002 RUN DATE 8/13/85 PROGRAM GF22

HAUL NO.	144	145	146	147	148	149	150	151	152	153	154
MONTH/DAY/YEAR	8/29/84	8/29/84	8/29/84	8/29/84	8/29/84	8/30/84	8/30/84	0/ 0/ 0	0/ 0/ 0	0/ 0/ 0	0/ 0/ 0
LATITUDE START	57 7.0	56 59.8	56 56.0	57 4.0	57 6.0	57 14.5	57 12.5	0 0.0	0 0.0	0 0.0	0 0.0
LONGITUDE START	152 44.5	152 55.2	152 56.0	152 29.0	152 39.0	152 51.0	152 29.1	0 0.0	0 0.0	0 0.0	0 0.0
GEAR DEPTH	78	67	63	79	88	64	54	0	0	0	0
DURATION IN HOURS	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.00	0.00	0.00	0.00
TEMPERATURE	.	7.2	.	6.2	.	7.2	7.8	.	.	.	.
PERFORMANCE	0	0	0	0	0	0	0	0	0	0	0
POLLOCK	107.2	378.8	1757.4	2423.8	131.5	204.8	9.4	0.0	0.0	0.0	0.0
PACIFIC COD	3.7	6.0	15.0	11.9	92.0	34.7	13.5	0.0	0.0	0.0	0.0
PACIFIC OCEAN PERCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROUGHEYE ROCKFISH	0.0	0.0	0.0	4.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
DUSKY ROCKFISH	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0
OTHER ROCKFISH	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SABLEFISH	7.6	0.6	1.6	26.2	8.0	1.3	1.1	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	94.5	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER ROUNDFISH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SALMON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YELLOWFIN SOLE	0.0	0.0	0.0	0.0	0.0	11.5	13.9	0.0	0.0	0.0	0.0
ARROWTOOTH FLOUNDER	264.0	244.4	661.9	418.4	249.7	363.4	219.5	0.0	0.0	0.0	0.0
FLATHEAD SOLE	428.9	605.8	748.2	90.3	296.8	325.2	111.1	0.0	0.0	0.0	0.0
ROCK SOLE	3.6	26.6	0.0	0.0	0.0	11.5	147.8	0.0	0.0	0.0	0.0
REX SOLE	43.0	11.6	45.2	0.0	2.3	0.0	18.3	0.0	0.0	0.0	0.0
DOVER SOLE	59.1	9.0	41.1	19.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC HALIBUT	15.5	12.9	36.8	2.4	11.6	24.0	5.6	0.0	0.0	0.0	0.0
STARRY FLOUNDER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALASKA PLAICE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FLATFISH	0.0	0.0	0.0	0.0	0.0	0.0	99.5	0.0	0.0	0.0	0.0
TOTAL FLATFISH	814.1	910.3	1533.2	530.2	566.7	735.6	615.7	0.0	0.0	0.0	0.0
SKATES	6.1	33.7	5.3	1.5	3.0	92.6	0.0	0.0	0.0	0.0	0.0
OTHER ELASMOBRANCHS	4.1	0.0	0.0	0.0	0.0	4.8	1.1	0.0	0.0	0.0	0.0
TANNER CRAB	78.3	2.9	6.2	2.6	29.4	110.0	57.0	0.0	0.0	0.0	0.0
KING CRAB	90.1	0.0	0.0	11.7	0.0	336.8	17.9	0.0	0.0	0.0	0.0
DUNGENESS CRAB	1.7	0.0	0.0	0.0	0.0	18.0	5.0	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 STRIPES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SCALLOPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER INVERTS	0.0	0.0	0.0	0.0	11.4	0.0	73.9	0.0	0.0	0.0	0.0
TOTAL INVERTS	170.1	2.9	6.2	14.3	40.8	464.8	153.8	0.0	0.0	0.0	0.0
OTHER	4.4	2.3	8.2	0.0	1.1	8.7	0.6	0.0	0.0	0.0	0.0
TOTAL CATCH	1117.3	1334.6	3421.6	3012.8	876.8	1547.3	800.1	0.0	0.0	0.0	0.0

Table 2. Catch amounts of important species in kilograms and numbers of fish caught, sorted by species, and presented by haul number. Catch amounts are as captured, they are not corrected to a standard haul duration.

Table 2.

VESSEL - 45 CRUISE - 84002
SPECIES - POLLOCK

HAUL	WEIGHT	NUMBER	AVG WT
1	209.3	420.	0.7
2	2.5	4.	0.6
4	2.8	14.	0.2
6	33.3	24.	1.4
7	15.6	16.	1.0
8	220.1	304.	0.7
9	531.5	750.	0.7
10	13.2	6.	2.3
11	41.2	61.	0.7
12	88.4	117.	0.8
13	113.1	117.	1.0
14	50.0	81.	0.6
15	960.0	1550.	0.6
16	152.0	162.	0.9
17	172.4	216.	0.8
18	481.8	768.	0.6
19	270.1	469.	0.6
20	48.5	84.	0.6
21	159.2	213.	0.7
22	247.2	360.	0.7
23	7.9	13.	0.6
24	245.9	366.	0.7
25	92.5	137.	0.7
26	137.9	218.	0.6
27	137.9	199.	0.7
28	266.2	408.	0.7
29	608.6	1214.	0.5
30	14.8	23.	0.6
31	317.6	447.	0.7
32	13.6	19.	0.7
33	1029.5	1612.	0.6
34	224.6	322.	0.7
35	302.6	403.	0.7
36	87.8	117.	0.7
37	625.5	1034.	0.6
38	538.4	913.	0.6
39	107.1	159.	0.7
40	599.6	819.	0.7
41	414.5	506.	0.8
42	215.6	272.	0.8
43	13.1	11.	1.2
44	118.3	142.	0.8
45	62.2	60.	1.0
46	34.5	33.	1.0
47	83.9	65.	1.3
48	17.4	16.	1.1
50	117.8	415.	0.3
51	279.2	1689.	0.2
52	173.6	814.	0.2
53	804.9	1555.	0.5
54	140.8	196.	0.7
55	286.3	341.	0.8
56	1197.0	1352.	0.9

VESSEL - 45 CRUISE - 84002
SPECIES - POLLOCK

HAUL	WEIGHT	NUMBER	AVG WT
57	1264.9	1416.	0.9
58	210.3	241.	0.9
59	711.7	997.	0.7
60	777.0	1322.	0.6
61	317.1	396.	0.8
62	75.3	178.	0.4
63	389.8	421.	0.9
64	414.0	611.	0.7
65	512.9	694.	0.7
66	970.7	1216.	0.8
67	74.8	223.	0.3
68	80.6	151.	0.5
69	9.3	56.	0.2
70	347.0	1006.	0.3
71	5.1	6.	0.9
72	90.2	131.	0.7
73	558.6	849.	0.7
74	2351.0	3447.	0.7
75	290.8	392.	0.7
76	3.7	5.	0.8
77	2176.3	3215.	0.7
78	181.5	230.	0.8
79	333.6	415.	0.8
80	101.8	127.	0.8
81	8.4	9.	0.9
82	17.4	19.	0.9
83	56.6	75.	0.8
84	38.5	103.	0.4
85	621.7	812.	0.8
86	299.6	348.	0.9
87	182.8	208.	0.9
89	121.5	145.	0.8
90	52.3	53.	1.0
91	648.7	829.	0.8
92	291.0	269.	1.1
93	57.0	77.	0.7
94	17.8	31.	0.6
95	6.2	6.	1.0
96	76.3	84.	0.9
97	6.5	8.	0.8
99	4.6	13.	0.4
100	392.5	551.	0.7
101	14.0	35.	0.4
102	553.3	906.	0.6
103	74.7	60.	1.2
104	281.9	268.	1.1
105	117.2	202.	0.6
106	425.2	642.	0.7
107	59.1	105.	0.6
108	73.8	82.	0.9
109	502.0	637.	0.8
110	133.5	121.	1.1
112	49.7	38.	1.3

VESSEL - 45 CRUISE - 84002
SPECIES - POLLOCK

HAUL	WEIGHT	NUMBER	AVG WT
113	26.3	26.	1.0
114	457.6	408.	1.1
115	13.2	13.	1.0
116	298.1	251.	1.2
117	367.4	324.	1.1
118	137.7	94.	1.5
119	91.4	122.	0.7
120	1948.1	1913.	1.0
121	1331.0	1278.	1.0
122	686.8	639.	1.1
123	134.8	91.	1.5
124	612.6	572.	1.1
125	42.7	46.	0.9
126	294.8	279.	1.1
127	41.6	46.	0.9
128	43.8	56.	0.8
129	178.1	158.	1.1
130	24.3	329.	0.1
131	15.2	37.	0.4
132	9.3	18.	0.5
134	0.0	3.	0.0
135	4.6	5.	0.9
136	294.1	330.	0.9
137	849.0	827.	1.0
138	0.0	8.	0.0
139	0.7	147.	0.0
140	644.1	597.	1.1
141	36.6	25.	1.5
142	29.6	22.	1.3
143	165.3	148.	1.1
144	107.2	102.	1.0
145	378.8	394.	1.0
146	1757.4	1829.	1.0
147	2423.8	2118.	1.1
148	131.5	92.	1.4
149	204.8	202.	1.0
150	9.4	22.	0.4
TOTAL	44432.8	59675.	0.7

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC COD

HAUL	WEIGHT	NUMBER	AVG WT
1	43.3	21.	2.1
2	1.9	1.	1.9
3	15.9	4.	4.0
4	117.8	35.	3.4
5	12.4	6.	2.1
6	10.0	3.	3.3
7	2.7	1.	2.7
8	24.8	10.	2.5
9	99.4	28.	3.5
10	34.6	12.	2.9
11	42.4	14.	3.0
12	58.2	29.	2.0
13	85.9	33.	2.6
14	14.3	5.	2.9
15	84.0	26.	3.2
16	41.8	18.	2.3
17	94.6	29.	3.3
18	134.9	79.	1.7
19	37.0	20.	1.9
20	41.0	18.	2.3
21	66.3	26.	2.6
22	155.4	71.	2.2
23	21.0	10.	2.1
24	25.0	6.	4.2
25	93.5	35.	2.7
26	108.1	35.	3.1
27	54.1	20.	2.7
28	18.2	7.	2.6
29	38.5	18.	2.1
30	3.1	1.	3.1
31	46.6	17.	2.7
32	40.7	22.	1.9
33	79.3	25.	3.2
34	19.9	12.	1.7
35	29.8	11.	2.7
36	103.4	44.	2.4
37	68.7	27.	2.5
38	55.2	25.	2.2
39	55.1	23.	2.4
40	57.8	21.	2.8
41	114.2	49.	2.3
42	24.9	9.	2.8
43	17.5	7.	2.5
44	44.5	18.	2.5
45	213.0	70.	3.0
46	41.2	12.	3.4
47	127.9	44.	2.9
48	40.5	12.	3.4
49	18.7	6.	3.1
50	146.3	60.	2.4
51	146.9	57.	2.6
52	217.6	97.	2.2
53	323.3	144.	2.2

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC COD

HAUL	WEIGHT	NUMBER	AVG WT
54	97.4	65.	1.5
55	204.8	106.	1.9
56	531.9	252.	2.1
57	400.5	182.	2.2
58	164.6	83.	2.0
59	104.7	63.	1.7
60	157.8	71.	2.2
61	120.1	60.	2.0
62	271.1	119.	2.3
63	116.6	60.	1.9
64	144.2	69.	2.1
65	118.3	63.	1.9
66	89.0	47.	1.9
67	122.4	73.	1.7
68	73.2	40.	1.8
69	55.1	40.	1.4
70	91.0	43.	2.1
71	47.3	35.	1.4
72	62.3	22.	2.8
73	141.0	77.	1.8
74	97.2	37.	2.6
75	121.0	47.	2.6
76	77.5	40.	1.9
77	69.5	20.	3.5
78	53.5	24.	2.2
79	48.0	21.	2.3
80	47.2	17.	2.8
81	30.8	11.	2.8
82	18.6	8.	2.3
83	41.4	16.	2.6
84	49.6	14.	3.5
85	119.6	43.	2.8
86	95.6	35.	2.7
87	76.8	26.	3.0
88	60.1	29.	2.1
89	574.8	171.	3.4
90	95.2	37.	2.6
91	15.8	4.	4.0
92	212.3	80.	2.7
94	59.2	29.	2.0
95	87.8	45.	2.0
96	37.8	17.	2.2
97	90.6	34.	2.7
98	423.4	317.	1.3
99	366.4	254.	1.4
100	23.5	13.	1.8
101	20.8	10.	2.1
102	77.2	26.	3.0
103	153.7	56.	2.7
104	9.0	4.	2.3
106	99.8	35.	2.9
107	12.4	4.	3.1
108	41.7	19.	2.2

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC COD

HAUL	WEIGHT	NUMBER	AVG WT
109	11.5	5.	2.3
110	52.4	24.	2.2
111	25.9	11.	2.4
112	8.4	4.	2.1
113	51.6	20.	2.6
114	40.8	15.	2.7
115	59.0	22.	2.7
116	7.5	3.	2.5
117	10.8	5.	2.2
118	31.9	11.	2.9
119	23.4	12.	1.9
120	202.1	92.	2.2
121	25.9	13.	2.0
122	41.9	17.	2.5
123	130.8	67.	2.0
124	92.3	35.	2.6
125	1.2	1.	1.2
126	21.0	9.	2.3
127	29.4	13.	2.3
128	4.5	2.	2.3
129	16.6	7.	2.4
130	53.6	19.	2.8
131	21.2	18.	1.2
132	3.8	2.	1.9
133	32.5	24.	1.4
134	38.0	28.	1.4
135	2.0	1.	2.0
136	50.3	23.	2.2
137	357.9	113.	3.2
139	0.3	1.	0.3
140	202.1	56.	3.6
141	2.2	1.	2.2
143	29.3	16.	1.8
144	3.7	2.	1.9
145	6.0	2.	3.0
146	15.0	5.	3.0
147	11.9	4.	3.0
148	92.0	38.	2.4
149	34.7	14.	2.5
150	13.5	6.	2.3
TOTAL	11993.1	5307.	2.3

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - ROUGHEYE ROCKFISH

HAUL	WEIGHT	NUMBER	AVG WT
1	6.8	36.	0.2
2	1.5	4.	0.4
3	2.8	5.	0.6
4	2.5	8.	0.3
5	1.1	1.	1.1
8	3.7	16.	0.2
9	0.8	1.	0.8
10	0.0	1.	0.0
12	1.5	1.	1.5
15	0.2	1.	0.2
16	1.3	1.	1.3
22	2.3	7.	0.3
24	55.9	40.	1.4
35	7.6	8.	0.9
45	0.8	1.	0.8
46	0.5	1.	0.5
47	1.6	4.	0.4
48	0.5	2.	0.2
49	0.8	1.	0.8
72	3.2	6.	0.5
73	2.7	5.	0.5
74	1.9	3.	0.6
79	1.8	5.	0.4
80	0.0	1.	0.0
82	2.7	6.	0.5
83	1.7	3.	0.6
84	14.0	17.	0.8
85	31.7	34.	0.9
86	12.2	20.	0.6
87	30.4	27.	1.1
90	0.8	1.	0.8
91	17.9	34.	0.5
96	18.1	32.	0.6
97	2.3	4.	0.6
100	4.3	8.	0.5
103	2.9	3.	1.0
106	17.6	19.	0.9
111	6.2	7.	0.9
112	26.7	22.	1.2
113	57.0	68.	0.8
114	47.1	36.	1.3
115	19.8	23.	0.9
116	28.8	31.	0.9
117	34.4	42.	0.8
119	0.4	1.	0.4
121	5.0	7.	0.7
122	124.8	91.	1.4
127	0.3	2.	0.2
141	58.0	70.	0.8
142	3.5	5.	0.7
147	4.9	11.	0.4
148	2.7	3.	0.9
TOTAL	678.0	786.	0.9

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC OCEAN PERCH

HAUL	WEIGHT	NUMBER	AVG WT
4	1.0	1.	1.0
23	1.0	1.	1.0
45	0.7	1.	0.7
TOTAL	2.7	3.	0.9

VESSEL - 45 CRUISE - 84002
SPECIES - DUSKY ROCKFISH

HAUL	WEIGHT	NUMBER	AVG WT
22	0.8	1.	0.8
27	1.3	1.	1.3
124	1.2	1.	1.2
133	4.7	12.	0.4
135	6.4	8.	0.8
136	1.5	1.	1.5
142	0.4	1.	0.4
150	4.9	8.	0.6
TOTAL	21.2	33.	0.6

VESSEL - 45 CRUISE 84002
SPECIES - OTHER ROCKFISH

HAUL	WEIGHT	NUMBER	AVG WT
10	0.3	1.	0.3
31	0.0	1.	0.0
62	0.2	1.	0.2
69	0.3	1.	0.3
80	0.4	1.	0.4
122	0.2	1.	0.2
128	0.1	1.	0.1
133	0.1	1.	0.1
135	1.6	4.	0.4
136	0.2	1.	0.2
140	0.5	1.	0.5
146	0.2	1.	0.2
TOTAL	4.1	15.	0.3

VESSEL - 45 CRUISE - 84002
SPECIES - SABLEFISH

HAUL	WEIGHT	NUMBER	AVG WT
1	2.7	3.	0.9
2	35.4	17.	2.1
3	58.1	30.	1.9
4	75.6	40.	1.9
5	39.3	20.	2.0
6	59.2	33.	1.8
8	1.9	2.	0.9
10	86.5	48.	1.8
11	30.5	19.	1.6
12	19.7	11.	1.8
14	2.1	3.	0.7
15	1.7	1.	1.7
16	30.9	19.	1.6
17	72.1	47.	1.5
18	22.6	14.	1.6
19	5.6	6.	0.9
20	13.6	12.	1.1
21	2.7	3.	0.9
22	28.3	18.	1.6
23	17.8	17.	1.0
24	3.5	2.	1.8
27	9.1	13.	0.7
28	5.9	7.	0.8
29	6.6	8.	0.8
31	0.5	1.	0.5
32	5.5	10.	0.6
33	0.4	1.	0.4
34	28.1	12.	2.3
35	34.5	20.	1.7
36	14.6	8.	1.8
37	3.5	3.	1.2
38	19.1	11.	1.7
39	86.2	55.	1.6
40	111.7	65.	1.7
41	37.6	22.	1.7
42	118.9	81.	1.5
43	5.1	3.	1.7
44	160.1	92.	1.7
45	188.1	105.	1.8
46	90.0	48.	1.9
47	70.5	34.	2.1
48	34.1	15.	2.3
49	42.5	23.	1.8
71	2.3	3.	0.8
72	10.2	7.	1.5
73	1.7	1.	1.7
74	2.3	1.	2.3
75	1.7	1.	1.7
76	0.5	1.	0.5
79	1.2	1.	1.2
80	15.4	11.	1.4
81	94.6	39.	2.4
82	74.2	36.	2.1

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - SABLEFISH

HAUL	WEIGHT	NUMBER	AVG WT
83	44.2	27.	1.6
84	23.3	13.	1.8
85	29.1	17.	1.7
86	38.8	19.	2.0
87	47.8	27.	1.8
88	21.1	14.	1.5
89	15.3	11.	1.4
95	8.2	6.	1.4
97	10.7	7.	1.5
98	2.7	2.	1.4
99	1.4	1.	1.4
104	5.5	7.	0.8
105	6.1	4.	1.5
107	1.3	1.	1.3
111	1.3	1.	1.3
112	3.0	2.	1.5
113	13.9	9.	1.5
114	9.3	5.	1.9
115	8.3	5.	1.7
116	18.3	8.	2.3
117	11.8	7.	1.7
120	15.3	9.	1.7
121	13.7	8.	1.7
122	36.9	20.	1.8
123	4.3	9.	0.5
124	1.8	1.	1.8
125	2.7	5.	0.5
128	0.4	1.	0.4
129	4.9	9.	0.5
130	2.9	9.	0.3
133	1.0	2.	0.5
135	0.6	1.	0.6
136	0.7	1.	0.7
137	5.7	3.	1.9
140	17.9	10.	1.8
141	63.1	32.	2.0
142	2.3	2.	1.1
143	3.0	6.	0.5
144	7.6	6.	1.3
145	0.6	1.	0.6
146	1.6	1.	1.6
147	26.2	14.	1.9
148	8.0	3.	2.7
149	1.3	3.	0.4
150	1.1	2.	0.6
TOTAL	2431.5	1454.	1.7

VESSEL - 45 CRUISE - 84002
SPECIES - SCULPINS

HAUL	WEIGHT	NUMBER	AVG WT
2	10.2	1.	10.2
3	6.9	6.	1.1
5	4.6	9.	0.5
7	2.9	1.	2.9
50	92.4	132.	0.7
51	125.9	117.	1.1
52	103.0	108.	1.0
53	124.4	175.	0.7
54	196.4	376.	0.5
55	39.0	59.	0.7
56	111.5	165.	0.7
57	122.5	153.	0.8
58	181.0	276.	0.7
59	35.5	68.	0.5
60	101.6	97.	1.1
61	96.1	120.	0.8
62	183.4	205.	0.9
63	84.2	199.	0.4
64	72.4	93.	0.8
65	41.0	63.	0.6
66	102.6	171.	0.6
67	70.9	105.	0.7
68	131.9	252.	0.5
69	42.9	56.	0.8
70	129.8	171.	0.8
71	13.1	28.	0.5
72	24.1	4.	5.7
73	34.0	102.	0.3
74	16.1	23.	0.7
75	37.1	31.	1.2
76	58.0	28.	2.1
78	41.1	60.	0.7
79	1.4	7.	0.2
80	2.3	17.	0.1
81	71.6	37.	1.9
82	1.4	14.	0.1
83	15.4	5.	3.3
84	4.5	13.	0.3
85	1.2	12.	0.1
86	47.3	15.	3.2
87	1.7	17.	0.1
88	16.3	4.	3.7
89	27.7	25.	1.1
90	5.3	9.	0.6
92	97.1	121.	0.8
93	27.0	39.	0.7
94	74.4	74.	1.0
96	10.1	8.	1.2
99	10.0	25.	0.4
100	1.5	5.	0.3
101	37.9	56.	0.7
102	71.6	80.	0.9
104	7.0	14.	0.5

VESSEL - 45 CRUISE - 84002
SPECIES - SCULPINS

HAUL	WEIGHT	NUMBER	AVG WT
107	15.7	5.	3.0
108	132.9	164.	0.8
109	7.3	12.	0.6
110	3.8	8.	0.5
112	1.3	13.	0.1
114	0.0	0.	0.0
118	45.9	62.	0.7
122	0.0	0.	0.0
123	30.2	10.	3.0
124	74.2	21.	3.5
127	40.8	69.	0.6
128	0.9	9.	0.1
132	1.3	4.	0.3
133	20.7	21.	1.0
135	36.7	25.	1.5
136	24.7	14.	1.8
138	0.2	2.	0.1
141	4.2	8.	0.5
142	5.7	6.	0.9
143	77.4	22.	3.5
146	94.5	41.	2.3
148	31.0	11.	2.7
TOTAL	3618.6	4581.	0.8

VESSEL - 45 CRUISE - 84002
SPECIES - ATKA MACKEREL

HAUL	WEIGHT	NUMBER	AVG WT
85	1.1	1.	1.1
TOTAL	1.1	1.	1.1

VESSEL - 45 CRUISE - 84002
SPECIES - SALMON

HAUL	WEIGHT	NUMBER	AVG WT
40	5.0	1.	5.0
77	11.2	2.	5.6
TOTAL	16.2	3.	5.4

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - YELLOWFIN SOLE

HAUL	WEIGHT	NUMBER	AVG WT
7	1.8	7.	0.3
8	19.5	37.	0.5
50	358.2	1046.	0.3
51	265.5	781.	0.3
52	342.4	1018.	0.3
53	449.1	1205.	0.4
54	933.1	2996.	0.3
55	170.4	487.	0.3
56	95.0	238.	0.4
57	134.0	306.	0.4
58	458.4	1137.	0.4
59	238.4	592.	0.4
60	256.3	806.	0.3
61	334.0	949.	0.4
62	357.2	917.	0.4
63	584.7	1440.	0.4
64	406.7	1138.	0.4
65	847.4	2509.	0.3
66	780.7	2583.	0.3
67	995.2	3545.	0.3
68	540.9	2035.	0.3
69	1569.2	5989.	0.3
70	259.5	785.	0.3
71	15.4	29.	0.5
75	6.2	10.	0.6
76	5.1	9.	0.6
77	6.9	17.	0.4
78	66.5	97.	0.7
92	101.0	283.	0.4
93	217.5	493.	0.4
94	54.7	80.	0.7
101	25.3	21.	1.2
102	12.7	16.	0.8
104	356.6	789.	0.5
108	1233.4	2723.	0.5
109	36.7	73.	0.5
118	72.0	136.	0.5
125	7.2	13.	0.6
127	158.1	563.	0.3
128	51.2	140.	0.4
129	118.5	404.	0.3
130	60.9	313.	0.2
131	41.1	79.	0.5
132	2.2	4.	0.5
149	11.5	22.	0.5
150	13.9	28.	0.5
TOTAL	13072.2	38887.	0.3

VESSEL - 45 CRUISE - 84002
SPECIES - ARROWTOOTH FLOUNDER

HAUL	WEIGHT	NUMBER	AVG WT
1	147.7	621.	0.2
2	154.7	219.	0.7
3	302.3	299.	1.0
4	462.7	386.	1.2
5	196.3	164.	1.2
6	216.2	174.	1.2
7	0.0	1.	0.0
8	154.4	608.	0.3
9	261.9	467.	0.6
10	365.7	380.	1.0
11	470.3	655.	0.7
12	153.4	288.	0.5
13	0.0	0.	0.0
14	94.9	352.	0.3
15	122.8	596.	0.2
16	518.6	674.	0.8
17	423.1	664.	0.6
18	281.1	660.	0.4
19	107.8	598.	0.2
20	136.3	476.	0.3
21	155.2	661.	0.2
22	520.4	704.	0.7
23	618.6	967.	0.6
24	312.4	419.	0.7
25	10.5	21.	0.5
26	73.0	103.	0.7
27	197.6	715.	0.3
28	125.7	435.	0.3
29	141.9	426.	0.3
30	6.4	16.	0.4
31	111.4	220.	0.5
32	103.8	896.	0.1
33	42.4	236.	0.2
34	357.6	537.	0.7
35	200.0	285.	0.7
36	483.1	802.	0.6
37	83.3	208.	0.4
38	489.3	709.	0.7
39	417.4	703.	0.6
40	598.2	736.	0.8
41	363.9	732.	0.5
42	354.2	498.	0.7
43	42.7	51.	0.8
44	574.4	502.	1.1
45	964.7	598.	1.6
46	692.7	608.	1.1
47	717.7	830.	0.9
48	190.8	184.	1.0
49	259.7	254.	1.0
50	10.4	47.	0.2
51	15.6	59.	0.3
52	14.4	48.	0.3
53	23.3	58.	0.4

VESSEL - 45 CRUISE - 84002
SPECIES - ARROWTOOTH FLOUNDER

HAUL	WEIGHT	NUMBER	AVG WT
54	8.2	33.	0.2
55	13.6	29.	0.5
56	3.7	19.	0.2
57	38.3	77.	0.5
58	122.4	190.	0.6
59	113.3	152.	0.7
60	24.2	65.	0.4
61	34.8	120.	0.3
62	30.1	123.	0.2
63	2.2	22.	0.1
64	3.1	10.	0.3
65	3.2	16.	0.2
69	1.9	19.	0.1
70	13.1	50.	0.3
71	313.4	2182.	0.1
72	176.6	326.	0.5
73	558.6	1409.	0.4
74	236.7	299.	0.8
75	220.7	351.	0.6
76	239.6	1488.	0.2
77	67.0	189.	0.4
78	153.7	230.	0.7
79	279.2	286.	1.0
80	175.2	243.	0.7
81	412.3	400.	1.0
82	177.8	159.	1.1
83	209.0	238.	0.9
84	268.8	269.	1.0
85	392.0	278.	1.4
86	326.2	274.	1.2
87	319.0	349.	0.9
88	339.6	913.	0.4
89	310.3	592.	0.5
90	156.0	186.	0.8
91	1843.9	1410.	1.3
92	195.3	162.	1.2
93	120.9	571.	0.2
94	38.1	117.	0.3
95	435.8	955.	0.5
96	255.4	221.	1.2
97	254.7	249.	1.0
98	1732.7	3620.	0.5
99	313.1	771.	0.4
100	140.2	215.	0.7
101	99.0	386.	0.3
102	273.5	477.	0.6
103	158.5	211.	0.8
104	424.2	874.	0.5
105	285.6	543.	0.5
106	246.2	321.	0.8
107	108.3	141.	0.8
108	98.4	426.	0.2
109	281.6	612.	0.5

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - ARROWTOOTH FLOUNDER

HAUL	WEIGHT	NUMBER	AVG WT
110	403.4	943.	0.4
111	351.1	712.	0.5
112	989.3	1350.	0.7
113	1428.1	1579.	0.9
114	761.0	1224.	0.6
115	1282.8	1358.	0.9
116	1116.0	1055.	1.1
117	2425.1	1513.	1.6
118	162.8	417.	0.4
119	203.2	325.	0.6
120	609.3	1045.	0.6
121	984.1	1238.	0.8
122	1337.0	1114.	1.2
123	100.6	382.	0.3
124	482.2	646.	0.7
125	38.8	105.	0.4
126	147.2	192.	0.8
127	76.3	771.	0.1
128	36.3	140.	0.3
129	49.7	191.	0.3
130	27.2	473.	0.1
131	103.8	0.	0.0
132	272.8	1226.	0.2
133	82.8	425.	0.2
134	1.2	16.	0.1
135	245.5	1409.	0.2
136	599.2	1292.	0.5
137	788.6	656.	1.2
138	10.2	85.	0.1
139	2.5	0.	0.0
140	294.3	502.	0.6
141	1189.6	666.	1.8
142	134.9	156.	0.9
143	262.7	458.	0.6
144	264.0	445.	0.6
145	244.4	707.	0.3
146	661.9	1172.	0.6
147	418.4	451.	0.9
148	249.7	385.	0.6
149	363.4	541.	0.7
150	219.5	1034.	0.2
TOTAL	46313.0	74815.	0.6

VESSEL - 45 CRUISE - 84002
SPECIES - FLATHEAD SOLE

HAUL	WEIGHT	NUMBER	AVG WT
1	341.8	2273.	0.2
2	33.7	110.	0.3
3	51.1	156.	0.3
4	126.7	413.	0.3
5	21.9	82.	0.3
6	27.7	87.	0.3
7	18.4	57.	0.3
8	674.9	1970.	0.3
9	215.2	924.	0.2
10	85.1	293.	0.3
11	113.9	570.	0.2
12	82.6	323.	0.3
13	758.1	2438.	0.3
14	71.0	387.	0.2
15	58.4	250.	0.2
16	186.2	770.	0.2
17	94.8	306.	0.3
18	42.5	136.	0.3
19	72.6	422.	0.2
20	120.4	648.	0.2
21	136.2	1310.	0.1
22	49.7	206.	0.2
23	268.9	835.	0.3
24	47.2	233.	0.2
25	43.2	65.	0.7
26	77.0	332.	0.2
27	329.6	1740.	0.2
28	93.3	530.	0.2
29	46.5	229.	0.2
30	4.6	24.	0.2
31	117.4	620.	0.2
32	118.3	826.	0.1
33	69.4	294.	0.2
34	49.6	124.	0.4
35	55.2	202.	0.3
36	35.1	117.	0.3
37	45.5	224.	0.2
38	61.3	204.	0.3
39	144.7	485.	0.3
40	174.9	639.	0.3
41	221.8	915.	0.2
42	203.8	1033.	0.2
43	8.1	29.	0.3
44	157.1	596.	0.3
45	140.0	467.	0.3
46	50.9	213.	0.2
47	80.2	242.	0.3
48	51.7	139.	0.4
49	19.8	53.	0.4
50	285.6	1499.	0.2
51	223.5	1083.	0.2
52	453.8	1940.	0.2
53	355.8	1633.	0.2

VESSEL - 45 CRUISE - 84002
SPECIES - FLATHEAD SOLE

HAUL	WEIGHT	NUMBER	AVG WT
54	189.9	851.	0.2
55	394.4	1091.	0.4
56	341.7	1334.	0.3
57	273.7	1034.	0.3
58	666.9	2637.	0.3
59	478.4	1809.	0.3
60	348.2	1338.	0.3
61	325.5	1609.	0.2
62	418.7	1957.	0.2
63	737.6	2281.	0.3
64	161.5	901.	0.2
65	184.6	726.	0.3
66	79.8	380.	0.2
67	94.5	525.	0.2
68	48.3	302.	0.2
69	48.5	336.	0.1
70	164.0	895.	0.2
71	82.0	712.	0.1
72	104.6	661.	0.2
73	387.1	2241.	0.2
74	365.4	1861.	0.2
75	375.3	1670.	0.2
76	130.8	1087.	0.1
77	36.1	361.	0.1
78	772.0	2856.	0.3
79	111.0	566.	0.2
80	153.2	809.	0.2
81	151.7	745.	0.2
82	108.7	580.	0.2
83	104.7	524.	0.2
84	247.0	1437.	0.2
85	140.3	974.	0.1
86	82.1	444.	0.2
87	124.6	1072.	0.1
88	41.0	265.	0.2
89	124.0	718.	0.2
90	488.3	2127.	0.2
91	580.0	2045.	0.3
92	607.6	2358.	0.3
93	423.5	1798.	0.2
94	388.5	1721.	0.2
95	112.2	769.	0.1
96	77.2	547.	0.1
97	83.0	605.	0.1
98	154.6	814.	0.2
99	21.1	182.	0.1
100	90.1	360.	0.2
101	439.0	2135.	0.2
102	702.8	2671.	0.3
103	362.2	1109.	0.3
104	548.3	1861.	0.3
105	563.8	2259.	0.2
106	298.7	963.	0.3

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - FLATHEAD SOLE

HAUL	WEIGHT	NUMBER	AVG WT
107	229.1	544.	0.4
108	177.1	1181.	0.2
109	274.3	1298.	0.2
110	163.6	844.	0.2
111	138.1	694.	0.2
112	236.8	1209.	0.2
113	298.8	1527.	0.2
114	467.8	2549.	0.2
115	323.0	1688.	0.2
116	323.2	1477.	0.2
117	306.9	1426.	0.2
118	971.5	6136.	0.2
119	2479.2	9551.	0.3
120	212.9	1005.	0.2
121	416.0	1826.	0.2
122	440.2	1498.	0.3
123	1004.9	3822.	0.3
124	313.7	1123.	0.3
125	795.6	2680.	0.3
126	90.5	492.	0.2
127	482.7	3269.	0.1
128	955.8	6027.	0.2
129	306.4	1742.	0.2
130	275.9	2242.	0.1
131	9.2	55.	0.2
132	129.3	1173.	0.1
133	11.2	37.	0.3
135	171.0	898.	0.2
136	713.2	2858.	0.2
137	189.0	709.	0.3
140	23.1	109.	0.2
141	85.7	566.	0.2
142	54.0	215.	0.3
143	306.2	1151.	0.3
144	428.9	1510.	0.3
145	605.8	2641.	0.2
146	748.2	3289.	0.2
147	90.3	347.	0.3
148	296.8	1217.	0.2
149	325.2	1262.	0.3
150	111.1	822.	0.1
TOTAL	37937.6	170314.	0.2

VESSEL - 45 CRUISE - 84002
SPECIES - ROCK SOLE

HAUL	WEIGHT	NUMBER	AVG WT
8	17.0	24.	0.7
13	9.3	23.	0.4
20	2.6	9.	0.3
22	2.3	8.	0.3
25	2.1	6.	0.4
26	3.7	4.	1.0
32	4.1	9.	0.4
37	2.3	8.	0.3
50	34.9	113.	0.3
51	4.9	20.	0.2
52	32.3	108.	0.3
53	3.9	20.	0.2
54	149.0	278.	0.5
55	2.9	10.	0.3
58	82.7	293.	0.3
59	3.4	17.	0.2
60	4.8	16.	0.3
61	13.2	36.	0.4
62	15.1	55.	0.3
63	13.3	22.	0.6
64	6.2	21.	0.3
65	4.7	16.	0.3
66	11.4	19.	0.6
67	15.8	40.	0.4
68	1.0	10.	0.1
70	4.0	10.	0.4
71	21.7	57.	0.4
73	90.0	170.	0.5
76	19.8	51.	0.4
78	9.7	12.	0.8
89	7.6	13.	0.6
94	11.7	12.	0.9
96	3.1	4.	0.7
98	30.5	81.	0.4
99	22.0	29.	0.8
104	250.9	409.	0.6
108	8.2	16.	0.5
109	153.0	355.	0.4
114	3.8	13.	0.3
119	24.4	81.	0.3
123	7.0	20.	0.3
124	49.8	180.	0.3
125	3.9	20.	0.2
127	31.6	100.	0.3
128	58.7	205.	0.3
129	24.6	71.	0.3
130	5.9	24.	0.2
131	215.1	739.	0.3
132	31.1	93.	0.3
133	491.1	2352.	0.2
134	150.5	937.	0.2
135	6.6	36.	0.2
138	46.0	172.	0.3

VESSEL - 45 CRUISE - 84002
SPECIES - ROCK SOLE

HAUL	WEIGHT	NUMBER	AVG WT
139	19.0	77.	0.2
140	22.4	68.	0.3
143	32.5	81.	0.4
144	3.6	14.	0.2
145	26.6	69.	0.4
149	11.5	36.	0.3
150	147.8	517.	0.3
TOTAL	2488.6	8306.	0.3

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - REX SOLE

HAUL	WEIGHT	NUMBER	AVG WT
10	0.0	0.	0.0
17	0.0	0.	0.0
18	19.9	63.	0.3
20	0.4	4.	0.1
34	5.0	17.	0.3
38	2.7	14.	0.2
41	0.0	0.	0.0
45	2.4	12.	0.2
71	3.4	11.	0.3
73	15.3	51.	0.3
76	0.0	0.	0.0
79	6.4	21.	0.3
80	1.2	6.	0.2
81	0.0	0.	0.0
82	1.9	24.	0.1
83	4.7	28.	0.2
84	0.0	0.	0.0
85	0.0	0.	0.0
86	3.0	15.	0.2
87	5.0	50.	0.1
88	7.1	18.	0.4
95	1.9	6.	0.3
96	5.3	22.	0.2
97	3.3	8.	0.4
99	14.1	54.	0.3
100	9.0	10.	0.9
101	0.0	0.	0.0
103	0.0	0.	0.0
105	0.0	0.	0.0
110	61.8	181.	0.3
111	21.9	37.	0.6
112	6.4	38.	0.2
113	25.0	79.	0.3
114	56.1	64.	0.9
115	5.3	27.	0.2
116	15.8	53.	0.3
117	19.5	22.	0.9
119	2.0	20.	0.1
127	0.0	0.	0.0
128	0.0	0.	0.0
131	0.9	13.	0.1
132	66.6	155.	0.4
135	164.3	424.	0.4
136	159.4	220.	0.7
137	45.9	118.	0.4
140	95.6	149.	0.6
141	5.8	17.	0.3
142	5.1	10.	0.5
144	43.0	58.	0.7
145	11.6	22.	0.5
146	45.2	103.	0.4
148	2.3	6.	0.4
150	18.3	50.	0.4
TOTAL	989.8	2299.	0.4

VESSEL - 45 CRUISE - 84002
SPECIES - DOVER SOLE

HAUL	WEIGHT	NUMBER	AVG WT
1	38.5	70.	0.6
2	3.4	4.	0.8
3	3.1	6.	0.5
9	2.9	4.	0.7
10	6.3	11.	0.6
11	6.1	12.	0.5
12	44.5	68.	0.7
16	10.4	19.	0.6
17	17.2	22.	0.8
18	35.3	45.	0.8
21	0.6	6.	0.1
22	16.1	23.	0.7
23	34.4	66.	0.5
24	21.9	40.	0.6
25	1.3	2.	0.7
26	9.2	15.	0.6
32	0.6	3.	0.2
34	87.5	140.	0.6
35	29.7	53.	0.6
36	16.7	25.	0.7
38	30.0	41.	0.7
39	40.2	59.	0.7
40	15.3	28.	0.6
42	15.4	27.	0.6
44	16.1	28.	0.6
48	1.9	3.	0.6
49	2.2	3.	0.7
107	4.2	5.	0.8
110	44.5	60.	0.7
111	21.3	18.	1.2
113	5.3	27.	0.2
115	89.6	53.	1.7
116	19.8	13.	1.5
117	43.2	43.	1.0
120	49.3	39.	1.2
121	32.5	20.	1.6
122	184.5	146.	1.3
132	8.4	9.	0.9
135	59.7	71.	0.8
137	53.8	52.	1.0
140	22.4	27.	0.8
142	15.8	8.	2.0
144	59.1	51.	1.2
145	9.0	9.	1.0
146	41.1	62.	0.7
147	19.1	35.	0.6
148	6.3	11.	0.6
TOTAL	1295.7	1587.	0.8

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC HALIBUT

HAUL	WEIGHT	NUMBER	AVG WT
1	97.8	16.	6.1
3	12.6	1.	12.6
4	39.1	4.	9.8
6	32.9	4.	8.2
7	4.2	1.	4.2
8	24.0	3.	8.0
10	14.3	4.	3.6
12	19.1	7.	2.7
13	80.2	3.	26.7
14	3.0	1.	3.0
15	8.4	3.	2.8
16	36.9	6.	6.2
17	30.2	9.	3.4
18	70.6	8.	8.8
19	19.6	5.	3.9
20	38.1	9.	4.2
21	42.2	10.	4.2
22	105.5	10.	10.6
23	82.9	9.	9.2
24	66.8	3.	22.3
25	23.8	3.	7.9
26	9.4	4.	2.3
27	15.1	4.	3.8
28	7.1	3.	2.4
29	11.7	4.	2.9
30	3.5	1.	3.5
31	5.0	1.	5.0
32	23.4	7.	3.3
33	2.3	1.	2.3
34	4.8	1.	4.8
35	28.3	5.	5.7
36	60.0	6.	10.0
37	17.4	5.	3.5
38	45.6	5.	9.1
39	28.2	7.	4.0
40	31.0	6.	5.2
41	11.3	2.	5.7
42	10.1	2.	5.1
43	3.6	1.	3.6
44	25.0	5.	5.0
45	64.9	7.	9.3
46	116.9	4.	29.2
47	23.2	2.	11.6
48	17.2	1.	17.2
49	22.1	3.	7.4
50	15.4	5.	3.1
51	12.0	4.	3.0
52	14.6	4.	3.7
53	10.1	3.	3.4
54	16.9	9.	1.9
55	44.9	11.	4.1
56	9.6	1.	9.6
57	83.7	7.	12.0

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC HALIBUT

HAUL	WEIGHT	NUMBER	AVG WT
58	10.4	3.	3.5
59	8.0	2.	4.0
60	35.0	10.	3.5
61	2.8	12.	0.2
62	19.7	5.	3.9
63	54.9	4.	13.7
64	7.8	1.	7.8
66	39.4	3.	13.1
67	10.0	2.	5.0
68	8.9	4.	2.2
69	5.2	3.	1.7
70	12.2	4.	3.0
71	3.5	3.	1.2
72	44.6	5.	8.9
73	32.1	8.	4.0
74	21.0	2.	10.5
75	118.2	10.	11.8
76	44.4	9.	4.9
77	53.5	6.	8.9
78	25.7	3.	8.6
79	69.3	2.	34.7
80	63.1	4.	15.8
82	32.9	4.	8.2
83	73.4	5.	14.7
84	65.6	8.	8.2
85	59.5	6.	9.9
86	125.3	8.	15.7
87	24.7	2.	12.4
88	36.4	6.	6.1
89	51.2	7.	7.3
90	70.4	6.	11.7
91	7.9	2.	4.0
92	7.2	1.	7.2
93	19.5	5.	3.9
94	32.4	2.	16.2
95	77.1	6.	12.8
96	79.3	5.	15.9
97	62.8	9.	7.0
98	8.5	7.	1.2
99	9.2	4.	2.3
100	98.4	9.	10.9
101	17.0	5.	3.4
102	31.7	4.	7.9
103	17.2	1.	17.2
104	43.8	17.	2.6
105	35.8	5.	7.2
106	54.7	4.	13.7
107	57.2	3.	19.1
108	81.4	24.	3.4
109	142.1	21.	6.8
110	22.4	2.	11.2
111	26.2	2.	13.1
112	1.0	1.	1.0

VESSEL - 45 CRUISE - 84002
SPECIES - PACIFIC HALIBUT

HAUL	WEIGHT	NUMBER	AVG WT
113	158.5	7.	22.6
114	182.9	17.	10.8
115	132.5	12.	11.0
116	123.9	7.	17.7
117	85.6	7.	12.2
118	60.7	10.	6.1
120	5.4	2.	2.7
121	35.0	1.	35.0
122	117.4	4.	29.4
123	9.9	5.	2.0
124	33.8	5.	6.8
125	35.5	6.	5.9
126	58.0	15.	3.9
127	21.6	8.	2.7
128	3.4	2.	1.7
129	26.5	10.	2.7
130	20.3	8.	2.5
131	30.4	11.	2.8
132	3.9	2.	2.0
133	9.7	5.	1.9
134	101.5	98.	1.0
135	23.6	6.	3.9
136	23.1	5.	4.6
137	166.6	21.	7.9
138	120.1	26.	4.6
139	51.8	52.	1.0
140	43.9	8.	5.5
141	33.7	3.	11.2
143	53.5	24.	2.2
144	15.5	6.	2.6
145	12.9	3.	4.3
146	36.8	6.	6.1
147	2.4	1.	2.4
148	11.6	4.	2.9
149	24.0	7.	3.4
150	5.6	6.	0.9
TOTAL	5689.9	966.	5.9

VESSEL - 45 CRUISE - 84002
SPECIES - STARRY FLOUNDER

HAUL	WEIGHT	NUMBER	AVG WT
1	14.9	9.	1.7
54	0.7	1.	0.7
108	24.2	12.	2.0
109	2.3	1.	2.3
119	1.6	1.	1.6
123	2.8	7.	0.4
124	4.5	1.	4.5
125	7.9	7.	1.2
126	2.5	1.	2.5
127	3.0	2.	1.5
128	6.6	4.	1.6
129	16.6	11.	1.5
131	8.3	4.	2.1
TOTAL	95.9	61.	1.6

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - ALASKA PLAICE

HAUL	WEIGHT	NUMBER	AVG WT
1	9.6	9.	1.1
8	34.0	24.	1.4
14	0.7	1.	0.7
19	10.3	7.	1.5
20	13.2	12.	1.1
21	4.1	3.	1.4
25	1.4	1.	1.4
27	1.3	1.	1.3
32	4.2	3.	1.4
36	2.2	1.	2.2
37	5.4	5.	1.1
51	6.0	5.	1.2
52	9.3	8.	1.2
53	2.5	2.	1.2
54	9.1	11.	0.8
58	0.7	1.	0.7
59	11.2	7.	1.6
60	13.4	12.	1.1
61	3.1	2.	1.5
62	1.5	1.	1.5
63	8.6	3.	2.9
67	1.8	1.	1.8
69	0.6	1.	0.6
70	2.3	1.	2.3
73	3.4	3.	1.1
76	28.1	9.	3.0
78	2.2	1.	2.2
92	5.0	3.	1.7
104	1.1	1.	1.1
108	8.7	4.	2.2
109	0.9	1.	0.9
118	3.1	1.	3.1
127	1.3	1.	1.3
TOTAL	210.3	146.	1.4

VESSEL - 45 CRUISE - 84002
SPECIES - OTHER FLATFISH

HAUL	WEIGHT	NUMBER	AVG WT
118	3.1	10.	0.3
119	4.1	21.	0.2
124	2.1	10.	0.2
126	2.5	0.	0.0
127	11.6	54.	0.2
128	72.7	373.	0.2
129	2.2	11.	0.2
131	208.1	1147.	0.2
132	74.1	217.	0.3
133	78.6	377.	0.2
134	0.2	1.	0.2
143	2.2	7.	0.3
150	99.5	317.	0.3
TOTAL	561.0	2546.	0.2

VESSEL - 45 CRUISE - 84002
SPECIES - SKATES

HAUL	WEIGHT	NUMBER	AVG WT
1	67.7	11.	6.2
7	6.1	1.	6.1
8	77.2	9.	8.6
9	0.3	1.	0.3
10	5.1	1.	5.1
11	7.2	3.	2.4
12	5.6	5.	1.1
13	335.6	17.	19.7
14	10.9	2.	5.4
15	0.8	1.	0.8
16	8.4	4.	2.1
17	3.2	4.	0.8
18	12.8	6.	2.1
20	0.8	2.	0.4
21	45.9	7.	6.6
22	3.8	1.	3.8
24	2.7	1.	2.7
25	82.0	4.	20.5
26	66.0	6.	11.0
27	125.6	14.	9.0
31	34.7	2.	17.4
32	5.9	2.	3.0
34	11.1	5.	2.2
35	2.3	1.	2.3
36	15.6	9.	1.7
38	13.5	12.	1.1
39	9.2	8.	1.1
40	4.8	2.	2.4
41	7.8	4.	2.0
42	14.9	6.	2.5
44	2.5	1.	2.5
45	3.2	1.	3.2
46	5.1	1.	5.1
48	24.6	4.	6.2
49	18.5	3.	6.2
73	2.0	1.	2.0
74	9.5	1.	9.5
75	24.9	1.	24.9
76	1.8	1.	1.8
78	32.3	3.	10.8
79	2.2	1.	2.2
80	16.9	1.	16.9
81	14.0	2.	7.0
82	2.0	1.	2.0
83	1.1	2.	0.6
84	2.0	1.	2.0
85	2.6	1.	2.6
86	1.6	1.	1.6
89	0.2	1.	0.2
91	10.7	3.	3.6
93	78.2	4.	19.5
94	6.8	1.	6.8
98	1.4	1.	1.4

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - SKATES

HAUL	WEIGHT	NUMBER	AVG WT
101	41.7	1.	41.7
104	267.3	16.	16.7
108	148.3	11.	13.5
109	12.7	2.	6.3
110	7.8	4.	2.0
111	6.5	4.	1.6
112	14.6	7.	2.1
113	1.6	1.	1.6
114	11.6	5.	2.3
116	1.8	1.	1.8
117	7.0	3.	2.3
118	60.5	5.	12.1
119	5.4	1.	5.4
120	9.8	4.	2.5
122	26.4	8.	3.3
123	313.1	15.	20.9
124	21.1	2.	10.6
125	14.0	1.	14.0
126	13.6	2.	6.8
128	20.5	2.	10.3
129	4.7	1.	4.7
132	24.1	2.	12.1
133	16.7	1.	16.7
135	3.7	1.	3.7
136	17.0	5.	3.4
140	3.0	2.	1.5
141	3.9	2.	2.0
143	83.3	9.	9.3
144	6.1	2.	3.1
145	33.7	6.	5.6
146	5.3	2.	2.7
147	1.5	1.	1.5
148	3.0	2.	1.5
149	92.6	6.	15.4
TOTAL	2555.5	325.	7.9

VESSEL - 45 CRUISE - 84002
SPECIES - OTHER ELASMOBRANCHS

HAUL	WEIGHT	NUMBER	AVG WT
26	2.0	1.	2.0
28	953.0	1.	953.0
74	136.1	1.	136.1
84	2.5	1.	2.5
115	2.7	1.	2.7
118	11.8	3.	3.9
119	1.8	1.	1.8
123	8.7	5.	1.7
124	2.1	1.	2.1
125	7.1	4.	1.8
126	7.8	4.	2.0
127	8.4	4.	2.1
128	1.1	1.	1.1
132	1.2	1.	1.2
133	3.0	2.	1.5
136	2.1	1.	2.1
138	7.2	2.	3.6
140	3.2	1.	3.2
141	2.5	1.	2.5
143	3.2	2.	1.6
144	4.1	2.	2.0
149	4.8	2.	2.4
150	1.1	1.	1.1
TOTAL	1177.5	43.	27.4

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - TANNER CRAB

HAUL	WEIGHT	NUMBER	AVG WT
1	17.9	24.	0.7
2	31.8	282.	0.1
3	20.1	309.	0.1
4	13.3	655.	0.0
5	20.5	350.	0.1
6	37.0	364.	0.1
7	274.2	800.	0.3
8	106.1	93.	1.1
9	103.0	125.	0.8
10	87.8	124.	0.7
11	73.2	224.	0.3
12	70.9	283.	0.3
13	29.4	68.	0.4
14	49.4	146.	0.3
15	174.3	374.	0.5
16	13.5	236.	0.1
17	5.5	177.	0.0
18	8.0	337.	0.0
19	172.4	520.	0.3
20	95.5	348.	0.3
21	195.2	803.	0.2
22	6.2	41.	0.2
23	0.4	7.	0.1
24	25.6	102.	0.3
25	102.7	277.	0.4
26	145.9	486.	0.3
27	121.7	285.	0.4
28	43.0	91.	0.5
29	23.7	54.	0.4
30	7.2	33.	0.2
31	109.2	411.	0.3
32	23.9	51.	0.5
33	60.8	100.	0.6
34	8.5	74.	0.1
35	21.7	49.	0.4
36	32.5	125.	0.3
37	49.9	115.	0.4
38	14.9	353.	0.0
39	6.5	80.	0.1
40	4.8	80.	0.1
41	17.4	65.	0.3
42	43.6	107.	0.4
43	11.1	16.	0.7
44	16.8	51.	0.3
45	21.5	100.	0.2
46	0.4	32.	0.0
47	4.5	76.	0.1
48	12.3	216.	0.1
49	12.8	74.	0.2
50	57.7	155.	0.4
51	30.6	112.	0.3
52	15.5	189.	0.1
53	33.2	167.	0.2

VESSEL - 45 CRUISE - 84002
SPECIES - TANNER CRAB

HAUL	WEIGHT	NUMBER	AVG WT
54	71.7	203.	0.4
55	23.4	212.	0.1
56	81.7	434.	0.2
57	388.8	1096.	0.4
58	18.6	195.	0.1
59	33.0	354.	0.1
60	15.9	166.	0.1
61	17.0	264.	0.1
62	41.1	185.	0.2
63	141.2	645.	0.2
64	303.3	454.	0.7
65	136.9	283.	0.5
66	35.8	298.	0.1
67	32.8	140.	0.2
68	171.5	562.	0.3
69	15.7	90.	0.2
70	204.3	564.	0.4
71	1.3	4.	0.3
72	0.2	8.	0.0
73	8.7	73.	0.1
74	9.3	55.	0.2
75	4.0	43.	0.1
76	1.2	11.	0.1
77	1.8	4.	0.4
78	5.5	99.	0.1
79	7.9	51.	0.2
80	0.2	32.	0.0
81	2.9	82.	0.0
82	3.9	33.	0.1
83	0.2	13.	0.0
84	6.1	25.	0.2
85	2.0	46.	0.0
86	5.3	53.	0.1
87	3.7	63.	0.1
88	0.8	7.	0.1
89	12.5	48.	0.3
90	7.0	117.	0.1
91	16.2	44.	0.4
92	99.6	624.	0.2
93	0.1	11.	0.0
94	65.8	445.	0.1
95	0.1	1.	0.1
96	0.0	4.	0.0
97	0.2	9.	0.0
99	1.6	7.	0.2
100	5.3	66.	0.1
101	30.6	72.	0.4
102	17.7	237.	0.1
103	53.6	43.	1.2
104	0.0	45.	0.0
105	23.7	114.	0.2
106	9.7	25.	0.4
107	22.7	69.	0.3

VESSEL - 45 CRUISE - 84002
SPECIES - TANNER CRAB

HAUL	WEIGHT	NUMBER	AVG WT
108	1.9	28.	0.1
109	16.3	162.	0.1
110	30.1	53.	0.6
111	19.5	67.	0.3
112	36.1	102.	0.4
113	45.5	81.	0.6
114	19.4	79.	0.2
115	43.7	101.	0.4
116	14.7	37.	0.4
117	36.9	75.	0.5
118	35.6	60.	0.6
119	6.6	18.	0.4
120	90.4	112.	0.8
121	105.8	111.	1.0
122	30.7	33.	0.9
123	1.2	1.	1.2
124	293.9	375.	0.8
125	13.8	22.	0.6
126	55.0	116.	0.5
127	4.8	91.	0.1
128	1.9	16.	0.1
129	5.5	8.	0.7
130	145.1	247.	0.6
131	58.9	60.	1.0
132	58.6	74.	0.8
135	161.6	203.	0.8
136	90.1	112.	0.8
137	34.9	42.	0.8
140	4.7	4.	1.2
141	45.5	56.	0.8
142	2.5	5.	0.5
143	240.8	243.	1.0
144	78.3	85.	0.9
145	2.9	31.	0.1
146	6.2	24.	0.3
147	2.6	4.	0.6
148	29.4	26.	1.1
149	110.0	103.	1.1
150	57.0	68.	0.8
TOTAL	6888.0	22779.	0.3

-Continued-

Table 2 (continued).

VESSEL - 45 CRUISE - 84002
SPECIES - KING CRAB

HAUL	WEIGHT	NUMBER	AVG WT
1	42.3	16.	2.6
2	3.8	1.	3.8
7	16.8	7.	2.4
8	26.0	11.	2.4
13	15.6	4.	3.9
25	8.0	3.	2.7
27	3.6	1.	3.6
29	3.9	1.	3.9
52	96.5	26.	3.7
53	208.1	54.	3.9
54	60.9	41.	1.5
55	8.3	2.	4.2
56	128.9	31.	4.2
57	30.2	8.	3.8
58	21.6	2.	10.8
59	44.3	12.	3.7
60	3.7	1.	3.7
61	235.3	71.	3.3
62	37.3	9.	4.1
63	47.4	13.	3.6
64	203.1	65.	3.1
65	155.8	49.	3.2
66	437.4	282.	1.6
67	1027.9	709.	1.4
68	62.9	27.	2.3
69	887.7	571.	1.6
70	6.0	2.	3.0
74	68.3	21.	3.3
78	13.9	3.	4.6
94	15.1	7.	2.2
118	46.7	25.	1.9
120	10.7	2.	5.3
123	310.0	164.	1.9
124	54.4	26.	2.1
125	85.4	26.	3.3
126	16.3	7.	2.3
127	32.0	15.	2.1
130	6.6	3.	2.2
131	39.6	17.	2.3
132	15.8	6.	2.6
134	0.0	1.	0.0
135	8.7	4.	2.2
136	98.0	21.	4.7
137	71.0	12.	5.9
144	90.1	50.	1.8
147	11.7	2.	5.8
149	336.8	185.	1.8
150	17.9	3.	6.0
TOTAL	5172.3	2619.	2.0

VESSEL - 45 CRUISE - 84002
SPECIES - DUNGENESS CRAB

HAUL	WEIGHT	NUMBER	AVG WT
7	7.1	10.	0.7
8	5.9	9.	0.7
13	1.5	2.	0.7
14	1.1	1.	1.1
19	10.9	20.	0.5
20	4.6	8.	0.6
21	12.7	21.	0.6
25	68.3	135.	0.5
26	16.6	26.	0.6
27	29.2	44.	0.7
29	2.2	4.	0.6
32	1.4	3.	0.5
37	2.4	3.	0.8
54	0.5	1.	0.5
64	0.4	1.	0.4
65	0.5	1.	0.5
66	1.1	3.	0.4
67	0.7	1.	0.7
68	12.4	31.	0.4
69	24.8	41.	0.6
93	6.7	6.	1.1
94	0.5	1.	0.5
101	5.1	9.	0.6
104	5.4	15.	0.4
108	5.2	11.	0.5
109	6.5	12.	0.5
118	34.7	50.	0.7
119	2.2	4.	0.6
120	0.9	1.	0.9
123	11.9	16.	0.7
124	3.6	6.	0.6
125	17.0	27.	0.6
126	18.2	26.	0.7
127	18.8	25.	0.8
128	17.0	25.	0.7
129	9.0	14.	0.6
130	4.4	6.	0.7
131	9.4	16.	0.6
132	5.0	8.	0.6
143	18.0	27.	0.7
144	1.7	2.	0.9
149	18.0	28.	0.6
150	5.0	8.	0.6
TOTAL	428.5	708.	0.6

VESSEL - 45 CRUISE - 84002
SPECIES - PINK SHRIMP

HAUL	WEIGHT	NUMBER	AVG WT
92	44.5	0.	0.0
103	41.6	0.	0.0
TOTAL	86.1	0.	0.0

VESSEL - 45 CRUISE - 84002
SPECIES - SCALLOPS

HAUL	WEIGHT	NUMBER	AVG WT
1	0.6	8.	0.1
2	0.7	3.	0.2
8	0.5	5.	0.1
9	0.2	2.	0.1
11	0.5	4.	0.1
14	0.2	2.	0.1
15	8.2	60.	0.1
17	0.1	1.	0.1
18	0.2	1.	0.2
19	1.1	13.	0.1
20	1.3	7.	0.2
21	7.8	107.	0.1
24	0.1	1.	0.1
26	0.1	1.	0.1
27	1.1	14.	0.1
28	0.1	1.	0.1
30	0.1	1.	0.1
31	4.3	15.	0.3
32	27.9	93.	0.3
36	0.0	1.	0.0
39	0.8	5.	0.2
71	224.5	724.	0.3
73	9.9	69.	0.1
76	61.2	345.	0.2
77	2.1	8.	0.3
78	0.3	2.	0.2
83	0.3	1.	0.3
89	0.2	1.	0.2
95	0.2	2.	0.1
98	5.2	26.	0.2
99	0.3	4.	0.1
100	0.2	1.	0.2
109	0.2	2.	0.1
110	7.3	15.	0.5
127	1.9	8.	0.2
134	0.2	2.	0.1
TOTAL	369.9	1555.	0.2

-Continued-

Table 3. Size frequencies taken during the July-August 1984 survey in Shelikof Strait (SH), Pavlof Bay (P), Chignik area (CH), and the Barnabas area (B), by species. Lengths are in centimeters, to the nearest whole number.

Table 3.

LENGTH cm	POLLOCK SH	P	CH	B
6		1		
7		1		
8			1	10
9				16
10				7
11				3
12				1
13				1
14				
15				
16	1	4		4
17	1	35	2	18
18		50		35
19		35		31
20	2	19	2	14
21	1	9	2	6
22		3		2
23	1	9		4
24		7		1
25		4		4
26		23		4
27		42	1	3
28		36		5
29	2	61		8
30	1	34		7
31	4	32		6
32	2	10	2	3
33	2	11	2	2
34	11	5	6	5
35	16	5	8	6
36	20	3	22	6
37	33		15	3
38	38	1	14	2
39	44		23	5
40	68	2	19	3
41	127		30	1
42	178		46	15
43	175		87	13
44	206	2	96	36
45	183	4	120	57
46	134	5	122	56
47	89	10	116	85
48	88	19	97	87
49	54	24	70	128
50	41	36	52	110
51	19	41	35	103
52	23	31	24	96
53	12	38	16	47
54	6	23	3	45
55	19	26	6	41
56	8	22	2	20
57	9	11	3	12
58	8	8	5	8
59	5	5	2	2
60	4	5	1	1
61	2	4	1	2

LENGTH cm	POLLOCK SH	P	CH	B
62	2	1		3
63	1	1		1
64	1	2	1	1
65				1
66				2
67			1	
68				2
69		1		
70				1
TOTAL	1641	761	1055	1201
MEAN	44.2	36.6	45.4	44.5

LENGTH cm	COD SH	P	CH	B
24		1		
25	1			
26				1
27	1			
28	1			
29	2			1
30	5	1		
31	2	1		1
32	4	2		3
33		2		1
34	1	4		1
35	1	3	1	2
36		11	1	
37	1	12		1
38	1	31		2
39		21	2	
40	5	40	4	3
41	3	22	10	
42	4	22	13	5
43	4	33	12	1
44	5	28	15	2
45	12	26	18	3
46	19	19	32	6
47	15	17	55	7
48	13	15	56	12
49	24	22	97	16
50	38	24	112	31
51	37	29	115	38
52	49	30	87	42
53	54	24	95	41
54	61	31	86	42
55	45	34	91	32
56	46	38	69	38
57	43	58	64	44
58	40	52	72	39
59	41	58	57	38
60	46	70	50	35
61	38	68	58	32
62	43	58	43	29
63	35	45	44	34
64	35	45	36	20
65	28	30	31	18
66	33	27	40	23
67	28	38	27	14
68	25	24	16	15
69	21	21	13	7
70	28	17	23	6
71	15	14	15	6
72	21	9	13	3
73	13	7	13	8
74	13	5	10	5
75	14	6	7	1
76	12	3	14	5
77	11	2	6	3
78	8	3	8	5
79	3	1	10	

LENGTH cm	COD SH	P	CH	B
80	5		7	5
81	2	2	7	5
82	7		5	5
83	4		1	1
84	3		6	4
85			4	5
86			1	3
87	2			
88			3	1
89	1		2	1
90	2			
91		1	2	1
92			3	
93				
94				
95				1
96				
97				
98				
99	1			
TOTAL	1075	1207	1682	754
MEAN	59.3	55.6	56.7	58.6

-Continued-

Table 3 (continued).

LENGTH cm	SABLEFISH SH	CH	B
32	2		1
33			1
34	8		3
35	11		4
36	11	2	5
37	21	3	12
38	11	3	7
39	9		9
40	12	1	9
41	3		1
42	3		
43	1		1
44			
45			
46	1		
47	2	3	
48	7	4	1
49	14	5	4
50	29	18	4
51	53	20	5
52	80	23	9
53	110	32	20
54	124	23	23
55	141	23	13
56	92	16	15
57	56	16	9
58	33	13	7
59	25	7	12
60	18	5	4
61	7	3	3
62	1	7	2
63	3	5	1
64	1	6	2
65	1	2	2
66	5	4	
67	1	3	
68		2	2
69		3	
70	1	2	1
71		1	1
72		1	
73			
74			1
TOTAL	897	256	194
MEAN	52.7	54.9	50.8

LENGTH MIDPOINT cm	HALIBUT SH	P	CH	B
33	1			7
38	1	2	2	54
43	2	2	5	90
48	4	9	8	46
53	5	7	13	20
58	11	9	28	32
63	35	16	23	35
68	21	20	24	22
73	29	8	16	9
78	15	11	20	15
83	25	4	23	24
88	11	4	16	11
93	16	1	12	14
98	11		5	8
103	4	1	10	12
108	3		8	10
113	3		8	7
118	4		6	
123			1	2
128	2	1		
133			4	
138			1	2
143		1	1	1
148	2		1	1
153		1	1	
158			1	1
163	1		1	1
168				
173				1
TOTAL	206	97	238	425
MEAN	77.9	68.1	79.0	62.0

LENGTH cm	FLATHEAD SOLE SH	P	CH	B
7			1	
8				4
9	1		8	8
10	1	7	6	10
11	2	8	29	5
12	8	7	8	11
13	15	2	13	11
14	6	4	15	12
15	11		18	14
16	6	3	21	7
17	8	5	24	9
18	8	2	29	6
19	13	3	31	16
20	18	3	48	26
21	28	11	53	22
22	18	16	65	36
23	38	22	68	49
24	51	27	69	63
25	103	29	85	103
26	137	40	97	124
27	178	55	122	138
28	229	58	120	167
29	241	67	127	206
30	194	66	102	174
31	155	49	95	153
32	137	44	94	121
33	145	30	57	87
34	124	17	64	59
35	117	11	65	66
36	84	12	54	46
37	68	9	46	22
38	52	15	31	28
39	23	13	20	8
40	15	7	16	3
41	11	9	12	6
42	1		6	2
43	1		2	2
44		1		1
TOTAL	2247	652	1721	1825
MEAN	29.7	28.5	27.4	28.3

LENGTH cm	ROCK SOLE SH	P	CH	B
8				1
9				
10				
11				
12				
13				2
14				
15				3
16				3
17				3
18				3
19				12
20				21
21				19
22				26
23		1		41
24				50
25	1	4	1	70
26		3	4	60
27		4	1	62
28	1	3	3	54
29	3	4	7	49
30	3	3	10	32
31	2	2	11	46
32		6	11	38
33		3	7	29
34	1	1	9	25
35	1	2	10	18
36		2	6	13
37		3	7	5
38		5	3	4
39	1	2	6	
40			7	1
41	2		1	
42			2	
43			1	
44				
45				1
TOTAL	15	48	107	691
MEAN	32.1	31.4	33.6	27.3

-Continued-

Table 3 (continued).

LENGTH cm	ROUGHEYE SH	ROUGHEYE CH	ROUGHEYE B
10	1		
11		1	
12	1		
13	5	1	
14	5	3	
15	4	2	3
16	2	3	
17	2	1	2
18	11	2	6
19	8	1	
20	8		4
21	4		1
22	4		3
23	11	5	1
24	2	1	2
25	8	4	3
26	1	2	3
27		2	3
28		8	4
29	1	6	2
30	1	18	7
31	4	23	8
32	6	24	17
33	6	32	21
34	8	18	37
35	7	15	48
36	3	6	39
37	3	6	36
38	2	10	16
39	2	7	11
40	1	7	11
41	1	3	15
42	3	2	4
43		3	12
44	1	2	7
45		1	3
46	2		4
47	1	1	2
48		1	4
49		2	2
50			2
51	1		1
52	2	1	3
53	1		3
54			3
55		1	1
56			2
57			
58			1
59			
60	2		
61			3
62			2
63		1	
64			1
65			

LENGTH cm	ROUGHEYE SH	ROUGHEYE CH	ROUGHEYE B
66		1	
67	1		2
68			1
69			
70		1	
71	1	1	
72			
73			
74		1	
75			
76	1		
77			
78			
79			
80			
81	1		
TOTAL	139	230	366
MEAN	28.5	33.3	36.6

LENGTH cm	NORTHERN SH	NORTHERN B
14	1	
15		
16		1
17		1
18		
19		
20		
21		
22		
23		2
24		2
25		
26		
27		
28		
29		
30		
31		
32		1
TOTAL	1	7
MEAN	14.0	22.7

LENGTH cm	PERCH SH
37	1
38	1
39	1
TOTAL	3
MEAN	38.0

LENGTH cm	REDBANDED ROCK SH	REDBANDED ROCK P	REDBANDED ROCK CH
23		1	
24			
25			
26	1		
27			
28			1
TOTAL	1	1	1
MEAN	26.0	23.0	28.0

LENGTH cm	LT DUSKY SH	LT DUSKY B
26		2
27		5
28		7
29		3
30		
31		
32		1
33		
34		
35		2
36	1	
37		6
38		1
39		1
40		1
41		1
42	1	1
TOTAL	2	31
MEAN	39.0	32.1

LENGTH cm	DARK DUSKY P	DARK DUSKY B
27	1	
28		
29		
30		
31		1
32		
33		
34		
35		1
TOTAL	1	2
MEAN	27.0	33.0

-Continued-

Table 3 (continued).

LENGTH cm	REX SOLE SH	CH	B
9		1	
10		2	
11		4	1
12		2	3
13		1	1
14			
15			2
16	1		
17			
18		2	1
19		1	
20	2		3
21			1
22			3
23	1	1	
24			1
25		1	
26			
27		2	1
28		3	
29	1	6	4
30		8	5
31	2	2	5
32	1	2	8
33	3	2	11
34		2	13
35		8	15
36	1	3	24
37		2	20
38	2	2	32
39	1		18
40		1	17
41			25
42		1	6
43		1	11
44		2	13
45			7
46			3
47			2
48			5
49			1
50			2
51			1
TOTAL	15	62	265
MEAN	30.1	28.6	37.1

LENGTH cm	PLAICE SH	P	CH	B
36		4		
37		1		
38		3		
39		2		
40	3	2	1	
41	5	3	1	
42	4	5		
43	2	4	1	
44	1	3		1
45	1	2		
46	2	1		
47	4			
48	2			
49	2			
50	2	3		
51	5	1	2	
52	2	2	1	
53	1	1	1	
54		1	1	
55	1			
56		1	1	
57		1		
58		2	1	
59				
60				1
TOTAL	37	42	10	2
MEAN	46.2	44.5	49.9	52.0

LENGTH cm	BUTTER SOLE B
21	1
22	9
23	13
24	28
25	31
26	34
27	40
28	39
29	35
30	21
31	17
32	18
33	8
34	8
35	3
36	2
37	3
38	1
39	1
TOTAL	312
MEAN	27.8

LENGTH cm	DOVER SOLE SH	CH	B
19	1		
20			
21			
22			
23			
24			
25			
26			
27	1		
28			
29	1		1
30			
31	2		
32	2		1
33			3
34	4		
35	4		7
36	10		1
37	10		1
38	11		5
39	27		3
40	12		4
41	11		7
42	13	1	5
43	3		3
44	5		3
45	1		3
46			5
47	1		4
48			3
49			4
50			3
51			3
52			6
53			3
54			4
55			3
56			2
57			2
58			1
59			1
TOTAL	119	1	91
MEAN	38.6	42.0	45.0

LENGTH cm	YELLOWFIN SOLE SH	P	CH	B
17				1
18				1
19				2
20				5
21				9
22				7
23		1		12
24		3		19
25	1	8	1	25
26		20	2	25
27	2	40	5	23
28	1	58	10	33
29	1	63	10	26
30	1	76	4	27
31		74	9	19
32	1	65	22	20
33	1	45	23	22
34		41	23	12
35		17	16	7
36	1	9	17	11
37	1	6	13	10
38		3	4	4
39		3	4	3
40		1	2	2
41				
42			2	
TOTAL	10	533	167	325
MEAN	30.4	30.6	33.2	28.8

LENGTH cm	ENGLISH SOLE B
37	2
38	
39	
40	4
41	
42	3
43	1
44	2
45	1
TOTAL	13
MEAN	41.2

-Continued-

Table 3 (continued).

LENGTH cm	STARRY FLOUNDER SH	P	CH	B
39		1		
40				1
41				
42				3
43				1
44				2
45	1			1
46				2
47			2	2
48			1	3
49			2	3
50			4	1
51				1
52				2
53			1	1
54			2	
55			1	
56				1
57				1
58				1
59				
60				
61				
62				
63				
64				
65				
66				1
TOTAL	1	1	13	27
MEAN	45.0	39.0	50.5	48.7

LENGTH cm	CHINOOK SALMON CH
72	1
TOTAL	1
MEAN	72.0

LENGTH cm	CHUM SALMON CH
72	1
TOTAL	1
MEAN	72.0

LENGTH cm	ATKA MACKEREL CH
44	1
TOTAL	1
MEAN	44.0

LENGTH cm	BIG SKATE SH	CH	B
31	1		
32			
33			
34			
35			
36			
37			
38			
39			
40	1		
41			
42		1	
43	1		
44	2		1
45	4	2	
46	1		2
47	3	2	1
48	1	1	2
49	2		
50	1	1	1
51	2	2	2
52	1	2	2
53			1
54	1	3	2
55	2	1	
56	1	2	
57		1	1
58	2	1	1
59			2
60		2	2
61		1	
62			
63	1		
64		2	3
65	1	1	2
66			3
67	3		2
68	1	1	
69	2	1	1
70	1		2
71			
72		1	1
73	2	1	1
74	4		
75	1	1	
76			1
77		1	1
78			
79	1		
80		1	1
81	1		2
82	1	1	2
83	1	2	
84		1	
85	1		1
86	1	2	

LENGTH cm	BIG SKATE SH	CH	B
87			
88			
89			
90	1		2
91		1	
92			
93			
94			
95		1	
96	1	1	1
97	2		
98			
99			
100	1		
TOTAL	53	41	46
MEAN	63.3	64.6	64.7

LENGTH cm	HERRING B
23	1
24	
25	1
TOTAL	2
MEAN	24.0

Table 4. Number of king crabs captured per mile by size category, Eastside crab stock, 1984 Kodiak Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
110	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0
118	0	25	0	0	0	0	0	0	0	25
119	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	2	2	2
121	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0
123	0	163	0	0	0	0	0	1	1	164
124	0	19	0	0	2	0	2	1	3	24
125	0	25	0	0	0	0	0	1	1	26
126	0	7	0	0	0	0	0	0	0	7
127	0	15	0	0	0	0	0	0	0	15
128	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0
130	0	3	0	0	0	0	0	0	0	3
131	0	17	0	0	0	0	0	0	0	17
132	0	5	0	0	0	0	0	1	1	6
133	0	0	0	0	0	0	0	0	0	0
134	1	0	0	0	0	0	0	0	0	1
135	0	4	0	0	0	0	0	0	0	4
136	0	9	0	0	0	0	0	12	12	21
137	0	0	0	0	0	0	0	12	12	12
138	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0
144	0	49	0	0	0	0	1	0	1	50

-Continued-

Table 4. Number of king crabs captured per mile by site category, Eastside crab stock, 1984 Kodiak Management District trawl survey (continued).

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
145	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	2	2	2
148	0	0	0	0	0	0	0	0	0	0
149	0	185	0	0	0	0	0	0	0	185
150	0	0	0	0	0	0	0	3	3	3
Total	1	526	0	0	2	0	3	35	38	567

Table 5. Number of king crabs captured per mile by size category in the North Mainland crab stock of Shelikof Strait, 1984 Kodiak Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
1	1	15	0	0	0	0	0	0	0	16
2	0	0	0	0	0	0	1	0	0	1
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	1	4	0	1	0	0	0	1	1	7
8	0	11	0	0	0	0	0	0	0	11
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0
13	0	1	0	0	0	1	0	2	2	4
14	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0
25	0	0	0	1	0	0	2	0	2	3
26	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	1	1	1
28	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	1	0	1	1
30	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0

-Continued-

Table 5. Number of king crabs captured per mile by size category in the North Mainland crab stock of Shelikof Strait, 1984 Kodiak Management District trawl survey (continued).

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
37	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0
Total	2	31	0	2	0	1	4	4	8	52

Table 6. Number of king crabs captured per mile by size category, 1984 Chignik District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
71	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0
74	0	12	0	0	0	0	1	8	9	21
75	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	3	3	3
79	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0
94	2	0	0	0	0	0	0	2	3	5
95	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0
Total	2	12	0	0	0	0	2	13	15	29

Table 7. Number of king crabs captured per mile by size category, in the Pavlof Bay area, South Peninsula Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
50	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	2	16	9	25	27
53	0	0	0	0	0	1	25	28	53	54
54	0	41	0	0	0	0	0	0	0	41
55	0	0	0	0	0	0	0	2	2	2
56	0	0	0	0	0	0	9	22	31	31
57	0	0	0	0	0	0	4	4	8	8
58	0	0	0	0	0	0	1	4	5	5
59	0	0	0	0	0	0	8	4	12	12
60	0	0	0	0	0	0	0	1	1	1
61	1	0	1	0	0	9	42	18	60	71
62	0	0	0	0	0	0	3	6	9	9
63	0	0	0	0	0	1	6	6	12	13
64	0	1	0	0	2	15	28	19	47	65
65	0	1	0	0	0	4	30	14	44	49
66	1	269	0	2	1	1	6	1	7	281
67	0	702	2	1	0	0	4	0	4	709
68	0	13	0	0	0	4	4	6	10	27
69	0	567	0	0	0	0	1	3	4	571
70	0	1	0	0	0	0	0	1	1	2
Total	2	1,595	3	3	3	37	187	148	335	1,978

Table 8. Number of Tanner crabs captured per mile by size category, in the North Mainland crab stock of Shelikof Strait, 1984 Kodiak Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
1	5	0	6	0	0	0	10	3	13	24
2	129	8	111	0	1	5	13	6	19	273
3	139	27	154	0	1	8	2	5	7	336
4	281	9	357	1	3	3	1	0	1	655
5	151	5	181	0	1	1	11	0	11	350
6	157	0	175	1	0	8	20	8	23	364
7	97	10	27	29	86	161	274	115	389	799
8	4	5	3	2	1	11	45	22	67	93
9	0	48	0	0	4	16	39	18	57	125
10	11	0	14	0	3	43	45	6	51	122
11	24	116	25	0	9	33	11	6	17	224
12	24	216	12	1	9	18	3	0	3	283
13	22	1	19	0	1	7	13	5	18	68
14	10	62	7	5	32	27	1	2	3	146
15	1	199	3	5	27	90	41	8	49	374
16	102	1	122	0	0	5	6	0	6	236
17	81	15	80	0	0	0	1	0	1	177
18	220	3	206	1	5	2	2	0	2	439
19	51	324	44	1	15	50	29	6	35	520
20	42	166	35	9	25	45	24	2	26	348
21	62	338	34	4	41	80	42	4	46	605
22	3	2	5	22	9	0	0	0	0	41
23	2	2	1	2	0	0	0	0	0	7
24	4	30	2	16	41	9	0	0	0	102
25	25	23	16	84	26	82	13	8	21	277
26	8	350	3	7	44	56	13	4	17	486
27	13	96	2	16	46	87	13	12	25	285
28	5	21	1	4	19	22	11	7	18	91
29	3	11	6	0	8	21	5	0	5	54
30	12	3	1	9	6	2	0	0	0	33
31	60	8	29	100	146	62	6	0	6	411

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Table 8. Number of Tanner crabs captured per mile by size category, in the North Mainland crab stock of Shelikof Strait, 1984 Kodiak Management District trawl survey (continued).

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
32	12	3	9	4	1	7	14	1	15	51
33	0	30	1	0	10	36	17	6	23	100
34	39	3	24	0	2	0	5	1	6	74
35	17	1	8	1	2	6	7	7	14	49
36	16	50	16	15	4	16	8	0	8	125
37	15	7	11	14	20	30	17	1	18	115
38	186	6	147	1	7	4	2	0	2	353
39	30	13	32	1	1	2	0	1	1	80
40	32	4	38	3	1	0	2	0	2	80
41	6	28	17	0	1	11	0	2	2	65
42	15	36	12	0	3	30	6	5	11	107
43	0	5	0	0	2	4	2	3	5	16
44	12	11	12	0	1	7	8	0	8	51
45	38	0	47	0	0	0	4	11	15	100
46	16	0	15	0	0	1	0	0	0	32
47	40	0	32	1	0	0	2	1	3	76
48	0	3	204	0	1	1	3	4	7	216
49	30	0	31	0	2	0	10	1	11	74
TOTAL	2,252	2,299	2.338	359	667	1,110	801	286	1,087	10,112

Table 9. Number of Tanner crabs captured per mile by size category, in the Eastside crab stock, 1984 Kodiak Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
110	9	1	14	0	3	9	14	3	17	53
111	21	6	18	1	1	10	10	0	10	67
112	34	17	17	0	2	10	21	1	22	102
113	14	11	15	0	1	14	20	6	26	81
114	35	6	15	0	3	13	7	0	7	79
115	31	7	25	1	2	5	25	5	30	101
116	11	4	12	0	0	0	10	0	10	37
117	23	1	16	0	2	10	21	2	23	75
118	8	0	8	9	5	9	19	2	21	60
119	1	0	2	1	4	10	0	0	0	18
120	0	29	0	0	3	17	54	9	63	112
121	1	1	0	0	2	34	66	7	73	111
122	5	0	3	0	0	1	23	1	24	33
123	0	0	0	0	0	0	0	1	1	1
124	0	6	0	0	15	220	129	5	134	375
125	0	0	0	0	0	16	6	0	6	22
126	0	24	0	2	37	41	11	1	12	116
127	40	0	44	2	1	2	2	0	2	91
128	6	0	5	0	3	2	0	0	0	16
129	0	4	0	0	4	6	0	0	0	12
130	0	4	0	3	84	107	40	9	49	247
131	1	0	1	0	0	18	32	8	40	60
132	0	1	1	1	2	9	28	2	30	44
133	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0
135	5	11	11	0	7	74	87	8	95	203
136	0	24	0	0	0	27	54	7	61	112
137	0	0	0	0	8	15	11	8	19	42
138	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0

-Continued-

Table 9. Number of Tanner crabs captured per mile by size category, in the Eastside crab stock, 1984 Kodiak Management District trawl survey (continued).

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
140	0	0	0	0	0	0	3	1	4	4
141	4	0	4	0	2	20	19	7	26	56
142	0	0	3	0	0	0	2	0	2	5
143	4	43	3	0	5	33	124	31	155	243
144	10	0	10	0	0	1	55	9	64	85
145	17	0	10	0	1	3	0	0	0	31
146	6	4	6	0	0	8	0	0	0	24
147	0	0	2	0	0	0	1	1	2	4
148	1	0	0	0	0	3	20	2	22	26
149	2	0	2	0	1	25	57	16	73	103
150	0	0	0	0	3	33	29	3	32	68
TOTAL	289	202	247	20	201	805	1,000	155	1,155	2,919

Table 10. Number of Tanner crabs captured per mile by size category, in the Pavlof Bay area, South Peninsula Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
50	6	67	7	13	25	27	6	4	10	155
51	40	7	19	11	7	22	5	1	6	112
52	98	0	67	22	0	2	0	0	0	189
53	74	2	48	7	5	22	5	4	9	167
54	31	11	18	32	39	58	14	0	14	203
55	97	4	74	22	9	6	0	0	0	212
56	173	5	81	92	32	35	14	2	16	434
57	265	84	46	233	215	316	92	14	106	1,265
58	90	2	68	28	1	5	1	0	1	195
59	176	1	115	57	3	0	2	0	2	354
60	62	1	71	27	2	2	1	0	1	166
61	113	0	130	19	0	1	1	0	1	264
62	91	0	22	38	7	14	10	3	13	185
63	360	33	217	339	24	14	15	2	17	1,004
64	4	41	0	3	60	201	133	11	144	453
65	5	4	1	10	105	143	13	2	15	283
66	20	56	4	45	84	79	10	0	10	298
67	32	22	18	31	21	13	2	1	3	140
68	28	411	2	43	25	39	9	5	14	562
69	19	17	17	25	7	5	0	0	0	90
70	53	213	15	64	71	113	32	3	35	564
Total	1,837	981	1,040	1,161	742	1,117	365	52	417	7,295

Table 11. Number of Tanner crabs captured per mile by size category, Chignik Management District trawl survey.

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
71	1	0	0	1	0	2	0	0	0	4
72	3	0	4	0	0	1	0	0	0	8
73	30	7	27	2	1	6	0	0	0	73
74	17	22	11	1	2	1	0	1	1	55
75	19	5	17	1	0	0	0	1	1	43
76	10	4	7	0	0	0	0	0	0	21
77	2	0	0	0	0	1	0	1	1	4
78	38	0	54	2	3	0	1	1	2	99
79	21	7	15	1	1	5	0	1	1	51
80	16	1	15	0	0	0	0	0	0	32
81	33	4	41	1	3	0	0	0	0	82
82	11	5	14	0	0	3	0	0	0	33
83	8	0	3	0	2	0	0	0	0	13
84	5	7	7	0	2	4	0	0	0	25
85	23	3	19	0	0	1	0	0	0	46
86	27	2	17	2	0	4	0	1	1	53
87	23	2	33	2	0	3	0	0	0	63
88	1	2	3	0	0	1	0	0	0	7
89	19	2	11	3	3	4	0	6	6	48
90	55	1	51	3	2	3	1	1	2	117
91	11	2	9	2	4	8	5	3	8	44
92	201	4	114	210	79	11	4	1	5	624
93	3	0	8	0	0	0	0	0	0	11
94	134	1	109	87	105	7	1	1	2	445
95	0	0	0	0	0	1	0	0	0	1
96	3	0	1	0	0	0	0	0	0	4
97	5	0	2	0	0	2	0	0	0	9

-Continued-

Table 11. Number of Tanner crabs captured per mile by size category, Chignik Management District trawl survey (continued).

Tow No.	Juv. ♀	Adult ♀	Prerecruit Four ♂	Prerecruit Three ♂	Prerecruit Two ♂	Prerecruit One ♂	Recruit Legal ♂	Postrecruit Legal ♂	Total Legal ♂	Total Crab
98	0	0	0	0	0	0	0	0	0	0
99	0	1	3	0	1	2	0	0	0	7
100	28	1	30	0	2	3	0	2	2	66
101	8	35	5	0	2	10	8	4	12	72
102	0	8	215	7	1	6	0	0	0	237
103	0	12	0	0	2	12	1	16	17	43
104	22	0	23	0	0	0	0	0	0	45
105	39	13	36	8	7	8	2	1	3	114
106	3	4	5	0	5	5	1	2	3	25
107	8	19	2	6	13	21	0	0	0	69
108	3	7	17	0	1	0	0	0	0	28
109	83	0	79	0	0	0	0	0	0	162
Total	913	181	1,007	339	241	135	24	43	67	2,883

APPENDICES

Appendix Table 1. DEFINITION OF TERMS FOR TANNER CRAB

Newshell (NS)	- Hard exoskeletal animals. The dorsal side of the the carapace is brownish-red. No apparent scratching on ventral side. Epifauna is absent or limited. Dactyli, pterygostomial and branchial spines sharp.
Oldshell (OS)	- An apparent skipmolt. Carapace is hard and brownish. The thoracic sternum and ventral sides of the legs have obtained numerous scratches and abrasions. Dactyli, pterygostomial and branchial spines are worn. Epifauna may be present.
Very Oldshell (OS)	- An obvious skipmolt. Carapace is hard, dark brown to blackish. Thoracic sternum and ventral side of legs with multiple scratches and abrasions. Underside of legs may be dark yellow-brown. Dactyli, pterygostomial and branchial spines heavily worn. Epifauna usually present, e.g. large barnacles.
Molting	- All physiological events leading up to ecdysis, including ecdysis.
Skip molt	- A crab which has not molted in more than 12 months.
Crab Measurements	- All crab measurements, e.g. $\leq$ 69 mm, refer to carapace width (CW) unless otherwise noted.

Size and Age Groups:

Prerecruit Fours	- Male Tanner crabs $\leq$ 69 mm in carapace width and four or more molts from attaining legal size. Note that this group includes prerecruit four, five, six and younger crabs, but are referred to as prerecruit fours herein.
Prerecruit Threes	- Male Tanner crabs 70-91 mm in carapace width and three molts from attaining legal size.
Prerecruit Twos	- Male Tanner crabs 92-114 mm in carapace width and two molts from attaining legal size.
Prerecruit Ones	- Male Tanner crabs 115-139 mm in carapace width and one molt from attaining legal size.
Recruit Legals	- Newshell male Tanner crabs 140-164 mm in carapace width, recruited to legal size in year of capture.
Postrecruit Legals	- Oldshell and very oldshell male Tanner crabs 140-164 mm and all males > 164 mm in carapace width. Have been legal size at least one year.
Total Legals	- Male Tanner crabs > 139 mm in carapace width.

Appendix Table 2. DEFINITION OF TERMS FOR KING CRAB

Carapace Length - is the straight line distance across the carapace from the posterior margin of the right eye orbit to the medial-posterior margin of the carapace.

Legal Size - Male king crab seven inches (178 mm) in width of shell as measured as the straight line distance across the carapace at a right angle to a line midway between the eyes to the midpoint of the posterior portion of the carapace including the spines.

Five Classes of King Crabs

Juvenile Females - nonovigerous females < 116 mm carapace length.

Adult Females - All ovigerous females and any nonovigerous females greater than 115 mm carapace length.

Newshell Males - individuals that molted during the last molting season (generally January through April).

Oldshell Males - individuals that failed to molt during the last molting season, often referred to as skipmolts.

Very Oldshell Males - individuals that failed to molt during the last two or more molting seasons, often referred to as double skipmolts.

Terms Describing Kodiak Male King Crab Groups in Carapace Length

Prerecruit Fours (4's) - ≤ 94 mm and 4 or more years from legal size.

Prerecruit Threes (3's) - 95-112 mm and 3 years from legal size.

Prerecruit Twos (2's) - 113-130 mm and 2 years from legal size.

Prerecruit Ones (1's) - sublegal crab ≥ 131 mm and 1 year from legal size.

Recruits - newshell legal males ≤ 164 mm, which are in their first year of availability to the commercial fishery.

Postrecruits - all legal crab which are not recruits. This includes all old or very oldshell crab ≥ 7" carapace width and all newshell crabs > 164 mm carapace length.

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