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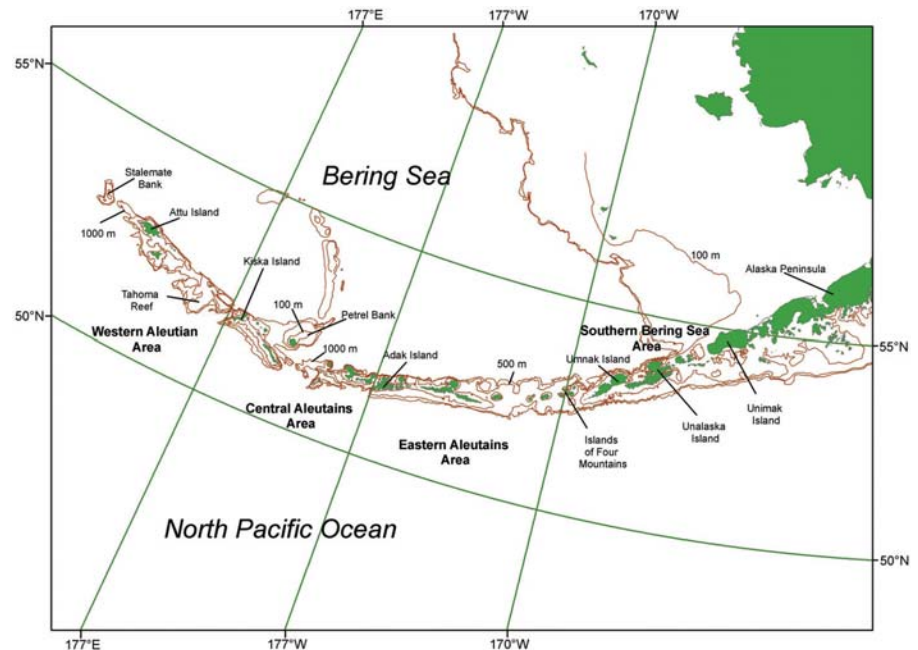
National Marine  
Fisheries Service

U.S. DEPARTMENT OF COMMERCE

## **AFSC PROCESSED REPORT 2008-05**

### Report to Industry: Fishing Log for the 2006 Aleutian Islands Bottom Trawl Survey

May 2008



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REPORT TO INDUSTRY: FISHING LOG FOR THE 2006 ALEUTIAN ISLANDS  
BOTTOM TRAWL SURVEY

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## INTRODUCTION

The tenth in a series of bottom trawl surveys of the Aleutian Islands groundfish and invertebrate resources was completed during the summer of 2006 by the Resource Assessment and Conservation Engineering (RACE) Division, Alaska Fisheries Science Center (AFSC), National Marine Fisheries Service (NMFS). The design of the 2006 biennial groundfish survey closely followed that used for prior Aleutian Islands surveys. Previous surveys in this series were conducted in 1980 (Wilderbuer et al. 1985), 1983 (Wakabayoshi 1987), 1984 (Stark 1996), 1986 (Payne et al. 1987), 1991 (Payne 1992), 1994, 1997 (Stark 1998), 2000 (Raring, 2004), 2002 (Zenger 2002), and 2004. The purpose of the surveys is to describe and monitor the current distribution, abundance, and biological condition of the important groundfish stocks and continuation of the time series in support of groundfish stock assessments. More detailed information and analysis about this survey can be found in “Data Report: 2006 Aleutian Islands Bottom Trawl Survey” (Rooper 2008).

Commercially valuable roundfish such as Atka mackerel (*Pleurogrammus monopterygius*), Pacific cod (*Gadus macrocephalus*), walleye pollock (*Theragra chalcogramma*), and sablefish (*Anoplopoma fimbria*); flatfish, most notably Pacific halibut (*Hippoglossus stenolepis*) and Greenland turbot (*Reinhardtius hippoglossoides*); rockfish species including Pacific ocean perch (*Sebastes alutus*), northern rockfish (*S. polyspinis*), and roughey, black-spotted, and shortraker rockfishes (*S. aleutianus*, *S. melanostictus* and *S. borealis*); and invertebrates including golden king crab (*Lithodes aequispina*) and scallops (*Chlamys* spp.) inhabit the area. Extensive areas of rough, rocky bottom provide abundant substrate for many species of bryozoans, hydroids, sponges, and corals.

The Aleutian region is an extensive archipelago of volcanic origin typified by a relatively narrow continental shelf that is crossed by numerous deep passes. Strong currents flow through the passes and across the shelf, sometimes making productive sampling operations difficult or impossible. The features provide a wide variety of

habitats resulting in a complex ecosystem. The rugged bathymetry prevalent in many areas requires the use of a roller gear footrope for all bottom trawling operations. The survey area included the entire Aleutian chain to a depth of 500 m.

## METHODS

The survey was conducted aboard the chartered commercial trawlers, the F/V *Gladiator* and F/V *Sea Storm*, for an overall survey effort of 120 days at sea. The survey ran from 1 June through 11 August 2006

### Vessels and Gear Characteristics

Both of the chartered vessels are house-forward stern trawlers with hydraulic net reels and paired constant tension hydraulic trawl winches with 2.54 cm diameter steel cable approximately 1,800 m in length. Both vessels have articulating hydraulic cranes for handling catches and gear. These vessels both have a single main diesel engine with a single-nozzled propeller. The F/V *Gladiator* is 38 m long overall (LOA) with a main engine developing 1,715 continuous horsepower (HP). The F/V *Sea Storm* is 37.5 m LOA with a 1,800 HP main engine. Each vessel is equipped with a global positioning system (GPS) integrated with radar, computerized plotting, and autopilot. Other essential electronics supplied by the vessels include color video fish finders, recording depth profilers, and trawl warp measuring systems. The vessel-owned GPS receivers recorded trawling position, time, and trackline position.

All operations were conducted in compliance with standard methods as documented in Appendix 1 of “NOAA Protocols for Groundfish Bottom Trawl Surveys of the Nation’s Fishery Resources” (Stauffer 2004). The standard Poly Nor’Eastern bottom trawl with roller gear was used exclusively by both vessels to sample the 399 attempted survey stations. The headrope is made of galvanized wire rope and is 27.2 m long with twenty-one 30-cm diameter plastic floats. The footrope is constructed of the same

material and is 24.2 m long with sixteen 35.6-cm diameter rubber wing bobbins. The net was spread with 1.8 × 2.7 m steel V-doors weighing approximately 800 kg each.

A Scanmar net mensuration system measured net width (wingtip-to-wingtip) and headrope height and communicated these measurements acoustically to a recording computer in real time. After the haul was completed, data from a footrope mounted bottom contact sensor developed by the RACE Division was used to determine the actual time on bottom for the trawl. The bottom contact sensor is further described in Somerton and Weinberg (2001). Depth and water temperature profile of each tow was measured and monitored with a bathythermograph mounted on the headrope of the net. Additional sea surface temperatures were measured using calibrated bucket thermometers.

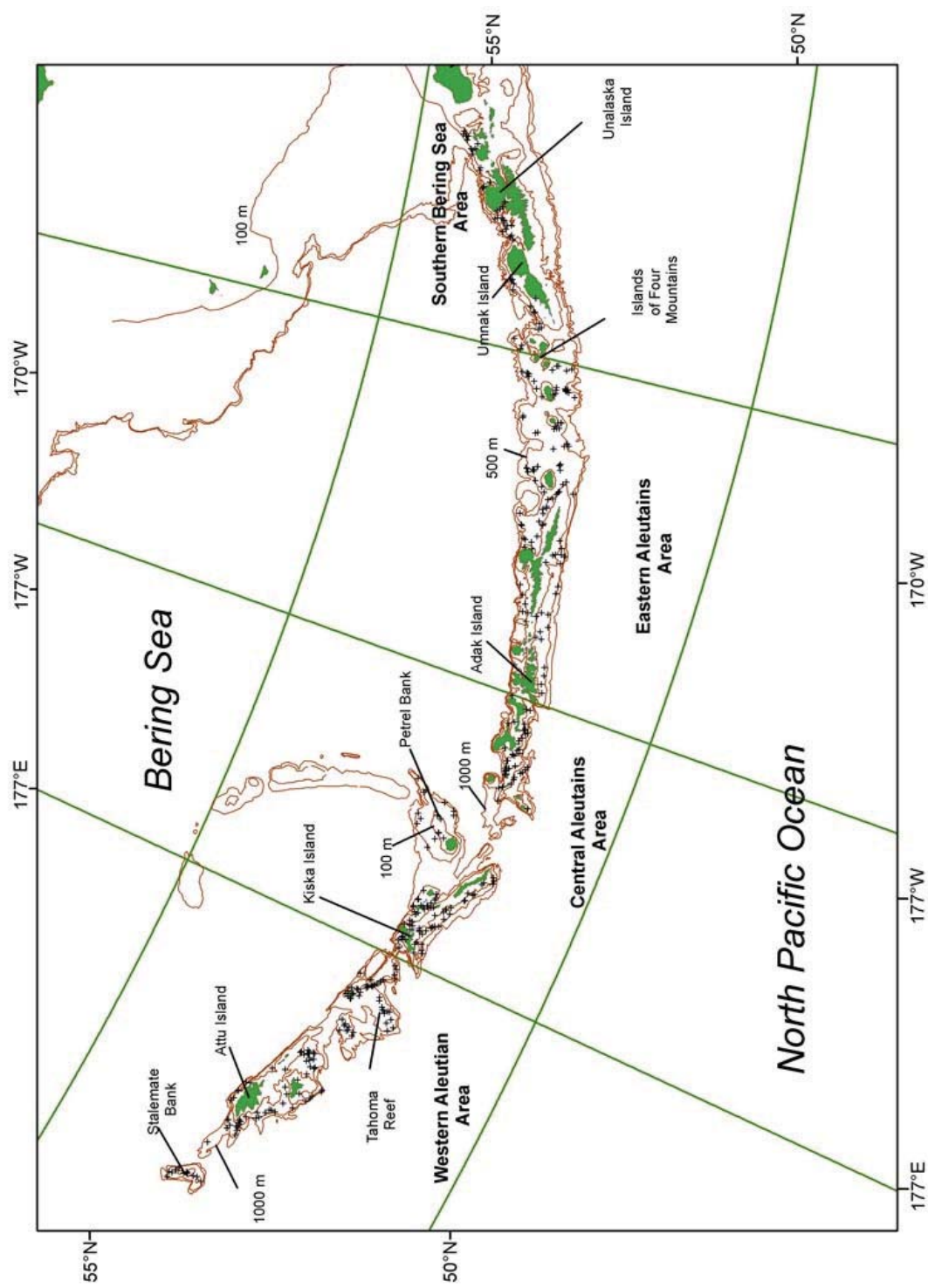
### Survey Design and Operations

The Aleutian survey area is composed of four of the North Pacific Fishery Management Council (NPFMC) statistical areas (Fig.1): the Southern District of the Bering Sea Subarea (518) and the Eastern, Central, and Western Districts of the Aleutian Subarea (541, 542, and 543, respectively). The survey area is divided into 45 area-depth sampling strata to improve the accuracy and precision of resulting estimates of abundance and size and age composition of target species. Due to reduced funding in 2006, the number of charter days was reduced from the normal survey size of 140 days to 120 days. A Neyman optimum allocation strategy drawing on relative species catch rates from previous surveys and current ex-vessel fish values was used to allocate sampling stations among the 45 strata. Nearly all station locations for this survey are fixed, though the 2006 allocations required adding nine new stations in four strata. All trawling procedures and protocols are described in Stauffer (2004).

During survey operations, the first trawlable location encountered near the pre-selected station was sampled. In choosing the exact location, only the trawlability of the bottom, as indicated by the echo sounder, was considered and not the presence or absence

of fish sign. The target tow duration on the sea bottom was 15 minutes. In cases where there was not enough trawlable bottom for a full 15 minute tow, shorter tows were completed. Priorities during trawling operations included maintaining a constant depth, wingspread, and towing speed (3 knots). However, when depths changed significantly during a tow, the trawl warp was adjusted to maintain good wingspread and bottom contact. The average trawl opening tended to increase horizontally and decrease vertically with depth due to the increased amount of deployed trawl cable.

Catches weighing less than approximately 1,000 kg were completely sorted to species, weighed, and counted. Larger catches were completely sorted also, however total weights and numbers of the most abundant species were sometimes estimated from subsamples either by weighing with a load cell or by using volumetric calculations and extrapolating. Biological data and specimens collected included fish lengths and weights, age structures, sexual maturities and special collections of stomachs, tissues, whole fish, and invertebrates.



**Figure 1.** -- Survey stations attempted during the 2006 NMFS biennial Aleutian Islands bottom trawl survey. Meridians shown define NPFMC Area boundaries.

## RESULTS

Sampling operations proceeded west from Unimak Pass along the Aleutian chain west to Stalemate Bank in depths ranging from 32 to 484 m. A total of 358 successful hauls were completed of 399 attempted tows. The average net opening was 16 m wide by 6.5 m high. Survey tow duration averaged 16.10 minutes, distance fished averaged 1.46 km and towing speed averaged 5.5 km per hour (2.97 knots) over the bottom. Net dimensions, towing speed, and duration data fell within expected values (Stauffer 2004).

Catches included more than 146 species of fish and 380 species of invertebrates. The dominant fish species are ranked by mean catch per unit effort in Table 1, expressed as kilograms of catch per hectare (10,000 m<sup>2</sup>) of bottom area within each of the four sampled NPFMC statistical areas. The species highest in total catch abundance (by weight) over the entire survey area were Atka mackerel (115.07 kg/ha), Pacific ocean perch (103.60 kg/ha), northern rockfish (33.84 kg/ha) and giant grenadier (29.91 kg/ha). Catch rates were generally highest in the Western and Central Aleutian NPFMC areas (west of 177° E long. and 177° E long. to 177° W long., respectively). The Central Aleutians area had the highest catch rate of Atka mackerel (168.07 kg/ha) while the Western Aleutians area produced the highest catch rate for Pacific ocean perch (185.61 kg/ha). Catch rates were lowest in the Southern Bering Sea area (East of 170° W long.). Estimates of invertebrate catch rates are probably conservative as a consequence of using roller gear footropes on the trawls.

The biological data collected to determine size compositions included measurements of over 96,000 fish representing 52 species. Specimen data were collected from 50 species including 9 rockfish, 8 flatfish, 8 skates, 2 gadids, and 1 species of shark. The specimen data collection included 7,268 age structures and 3,257 individual weight measurements. Additionally, 2,373 stomach samples were collected from 23 different species for AFSC trophic interaction studies.

Oceanographic data included sea temperature measurements and bottom type classification. Sea surface temperatures were measured at 396 survey stations and averaged 6.02°C with a range of 4.0°C to 10.0°C. Water column temperature profiles, which include bottom (fishing depth) temperatures, were collected during 390 tows. Bottom temperatures averaged 4.26°C (range of 3.1°C to 5.9°C) throughout the survey area.

## ORGANIZATION OF REPORT AND DATA STANDARDIZATIONS

The purpose of this report is to provide the fishing industry and public with pertinent catch information collected by the survey vessels. The report focuses on data collected at individual stations for the principal species encountered during the survey. The fishing results are presented in Section 1 for the F/V *Gladiator* and Section 2 for the F/V *Sea Storm*. Each section has two parts: 1) station charts with haul numbers plotted adjacent to their respective geographical locations and 2) summary listings of species caught in each haul. A combined fishing log for both vessels showing catches ranked by weight for selected commercial species is listed in Section 3. The combined fishing log includes catches of rockfish species, Atka mackerel, walleye pollock, Pacific cod, flatfish species, lingcod (*Ophiodon elongatus*), Pacific herring (*Clupea pallasii*), golden and red king crab (*Lithodes aequispina* and *Paralithodes camtschaticus*), Tanner crab (*Chionoecetes bairdi*), scallops, northern and sidestripe shrimp (*Pandalus borealis* and *Pandalopsis dispar*), octopus, and red squid (*Berryteuthis magister*). Hauls without catches and special invertebrate hauls were omitted from the catch listings.

Explanations of the gear performance codes appearing in the fishing logs are summarized in Table 2. Fishing gear specifications and diagrams are presented in Section 4.

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**Table 1.** -- Mean CPUE (kg/ha) for the 20 most abundant groundfish and total sampling effort in each North Pacific Fishery Management Council Area during the 2006 Aleutian Islands survey.

<u>Western Aleutians area</u>	<u>CPUE</u>	<u>Central Aleutians area</u>	<u>CPUE</u>	<u>Eastern Aleutians area</u>	<u>CPUE</u>
Pacific ocean perch	185.61	Atka mackerel	168.07	Atka mackerel	138.97
northern rockfish	66.67	Pacific ocean perch	103.33	Pacific ocean perch	75.69
Atka mackerel	66.29	northern rockfish	42.82	giant grenadier	61.50
Pacific cod	12.99	northern rock sole	22.46	arrowtooth flounder	50.37
arrowtooth flounder	8.78	giant grenadier	17.94	walleye pollock	27.78
northern rock sole	8.41	Pacific cod	13.32	Pacific cod	17.20
shortspine thornyhead	7.32	walleye pollock	11.17	northern rockfish	9.12
giant grenadier	5.25	Kamchatka flounder	7.41	whiteblotched skate	8.88
walleye pollock	4.29	arrowtooth flounder	5.02	northern rock sole	7.71
Kamchatka flounder	3.49	Alaska skate	3.98	Pacific halibut	7.24
Pacific halibut	3.39	Pacific halibut	3.70	Kamchatka flounder	6.41
whiteblotched skate	3.00	shortspine thornyhead	3.62	Greenland turbot	6.25
flathead sole	2.26	dusky rockfish	3.37	sablefish	2.19
rex sole	1.86	shortraker rockfish	3.22	yellow Irish lord	2.12
prowfish	1.66	black-spotted rockfish	2.86	shortraker rockfish	1.58
Alaska skate	1.66	sablefish	2.39	Alaska skate	1.31
shortraker rockfish	1.63	yellow Irish lord	1.96	black-spotted rockfish	1.10
Greenland turbot	1.30	Aleutian skate	1.61	Aleutian skate	0.93
Aleutian skate	0.76	rex sole	1.57	mud skate	0.90
darkfin sculpin	0.74	whiteblotched skate	1.19	rex sole	0.89
Number of hauls	113	Number of hauls	110	Number of hauls	91

<u>All Aleutian areas</u>	<u>CPUE</u>	<u>Southern Bering Sea area</u>	<u>CPUE</u>	<u>All areas</u>	<u>CPUE</u>
Atka mackerel	128.03	arrowtooth flounder	47.12	Atka mackerel	115.07
Pacific ocean perch	113.05	Pacific ocean perch	31.68	Pacific ocean perch	103.60
northern rockfish	34.27	northern rockfish	30.59	northern rockfish	33.84
giant grenadier	33.84	walleye pollock	24.07	giant grenadier	29.91
arrowtooth flounder	26.10	Atka mackerel	16.45	arrowtooth flounder	28.54
walleye pollock	16.68	Kamchatka flounder	15.56	walleye pollock	17.54
Pacific cod	14.95	northern rock sole	11.22	Pacific cod	14.36
northern rock sole	12.18	Pacific halibut	10.86	northern rock sole	12.07
Kamchatka flounder	5.92	Pacific cod	9.90	Kamchatka flounder	7.04
Pacific halibut	5.19	rex sole	8.80	Pacific halibut	5.84
whiteblotched skate	5.08	southern rock sole	7.84	whiteblotched skate	4.61
Greenland turbot	3.45	flathead sole	5.17	Greenland turbot	3.25
shortspine thornyhead	3.14	yellow Irish lord	2.29	shortspine thornyhead	2.93
Alaska skate	2.18	Greenland turbot	1.71	rex sole	2.21
shortraker rockfish	2.07	shortraker rockfish	1.58	Alaska skate	2.09
sablefish	1.72	Alaska skate	1.44	shortraker rockfish	2.01
yellow Irish lord	1.60	shortspine thornyhead	1.29	yellow Irish lord	1.68
black-spotted rockfish	1.41	whiteblotched skate	1.09	sablefish	1.54
rex sole	1.34	black-spotted rockfish	1.06	flathead sole	1.50
Aleutian skate	1.08	dusky rockfish	0.98	black-spotted rockfish	1.37
Number of hauls	314	Number of hauls	44	Number of hauls	358

**Table 2.** -- Performance codes used during the 2006 Aleutian Islands bottom trawl survey.

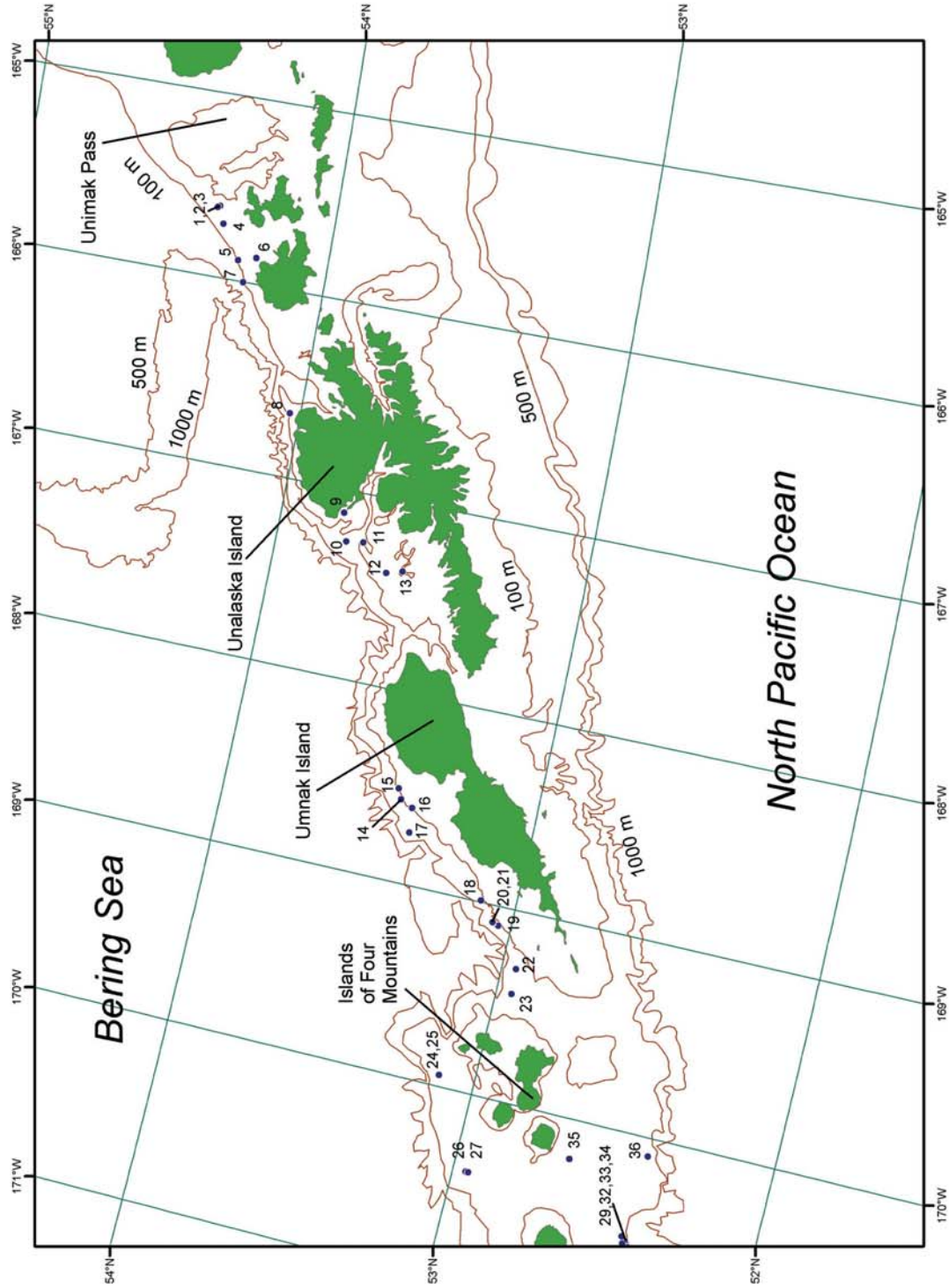
Codes	Performance
0	Good performance
1.1	Satisfactory performance, minor hang(s)
1.11	Satisfactory performance, completed tow
1.12	Satisfactory performance, hauled back early due to hang(s)
1.2	Satisfactory performance, major hang, stopped forward progress of vessel
2.1	Satisfactory performance, wing damaged
2.4	Satisfactory performance, belly damaged
2.5	Satisfactory performance, bridle damaged
3.11	Satisfactory performance, sablefish pot
3.13	Satisfactory performance, Alaskan crab pot
3.2	Satisfactory performance, caught longline gear
4	Satisfactory performance, caught unspecified object
4.1	Satisfactory performance, caught large rock
4.4	Satisfactory performance, large fish catch affected net performance
5	Satisfactory performance, unspecified gear performance problem
5.1	Satisfactory performance, net came off bottom
5.2	Satisfactory performance, net improperly configured, unspecified reason
5.3	Satisfactory performance, weather affected trawl performance
5.41	Satisfactory performance, door digging or falling over
6.1	Satisfactory performance, depth change over tow exceeds survey defined limits
-1.12	Unsatisfactory performance, hauled back early due to hang(s)
-1.2	Unsatisfactory performance, major hang, stopped forward progress of vessel
-2	Unsatisfactory performance, unspecified gear damage
-2.1	Unsatisfactory performance, wing damaged
-2.2	Unsatisfactory performance, breastline damaged
-2.4	Unsatisfactory performance, belly damaged
-3	Unsatisfactory performance, gear conflict, unspecified
-3.1	Unsatisfactory performance, caught pot, unspecified type
-3.13	Unsatisfactory performance, Alaskan crab pot
-4.1	Unsatisfactory performance, caught large rock
-5	Unsatisfactory performance, unspecified gear performance problem
-5.1	Unsatisfactory performance, net came off bottom
-5.2	Unsatisfactory performance, net improperly configured, unspecified reason
-5.23	Unsatisfactory performance, headrope/footrope tangled
-5.41	Unsatisfactory performance, door digging or falling over
-5.7	Unsatisfactory performance, net unable to reach bottom due to strong currents
-6	Unsatisfactory performance, unspecified problems

**Section 1**

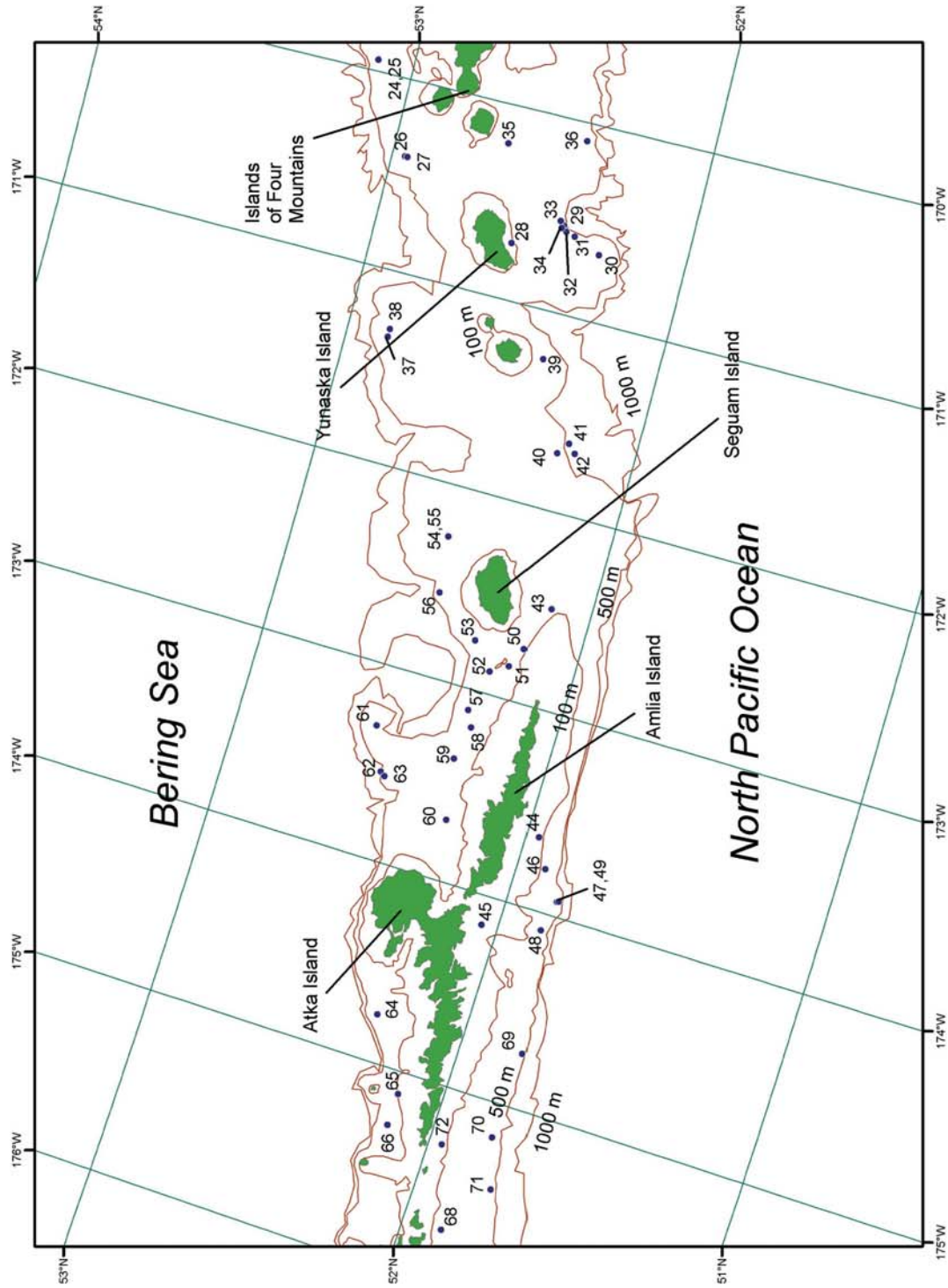
**Fishing Log for the F/V *Gladiator***

- Charts of stations and haul numbers plotted by their respective geographical position





**Figure 2.** -- Stations surveyed by the chartered trawler F/V *Gladiator* from Unimak Pass to the Islands of Four Mountains.



**Figure 3.** -- Stations surveyed by the chartered trawler F/V *Gladiator* from the Islands of Four Mountains to Atka Island.



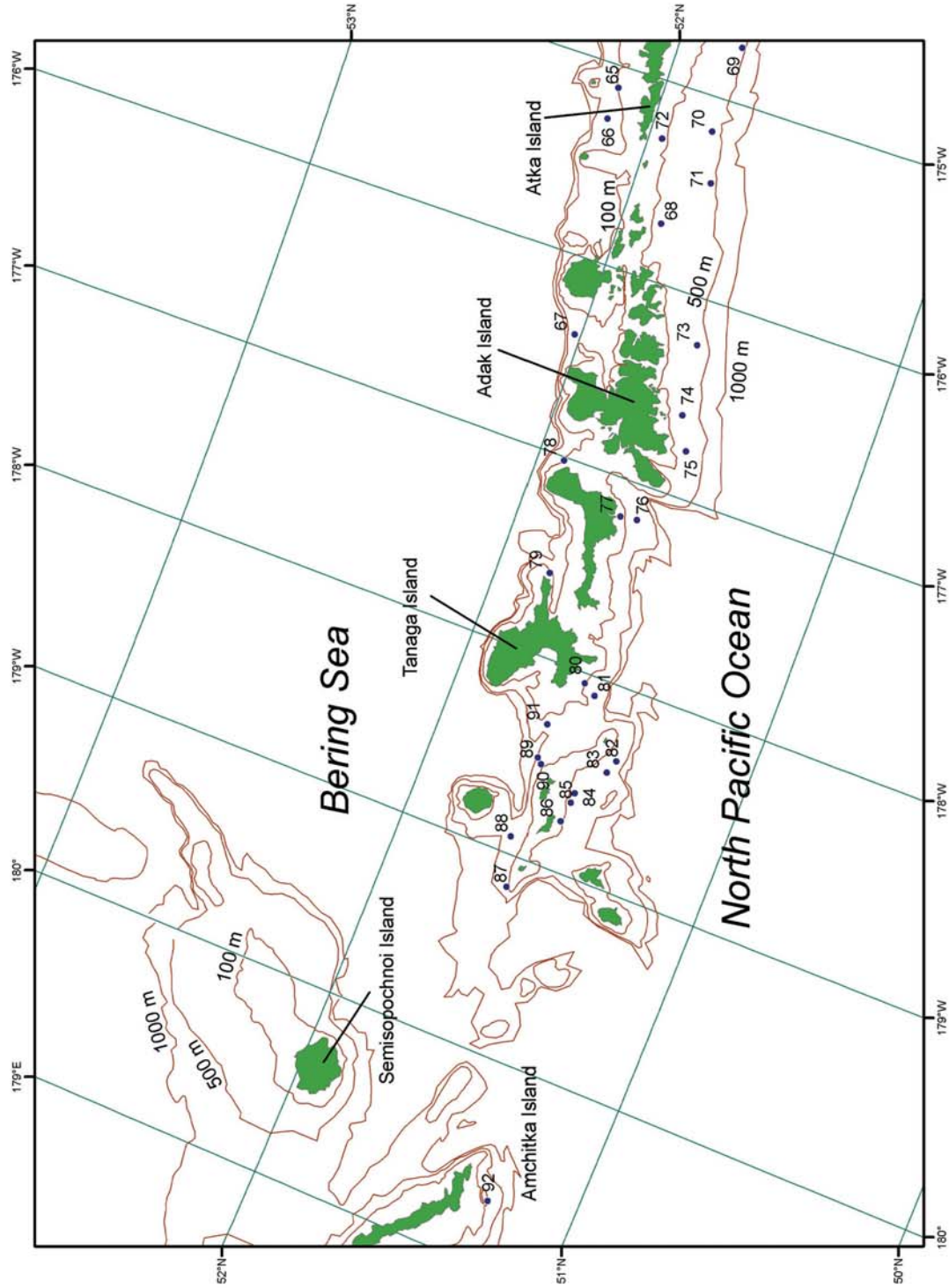


Figure 4. -- Stations surveyed by the chartered trawler FV *Gladiator* from Atka Island to Amchitka Island.

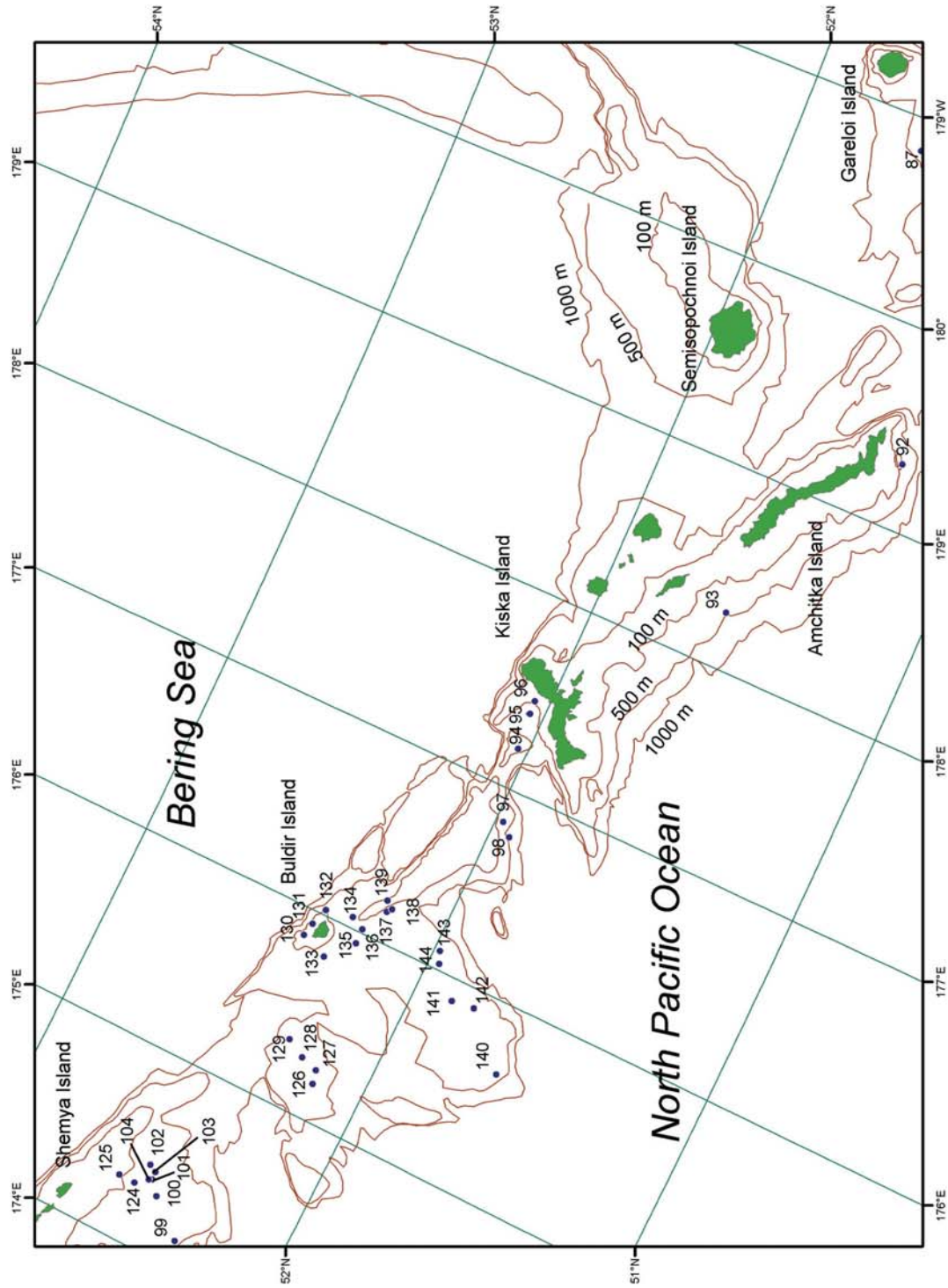
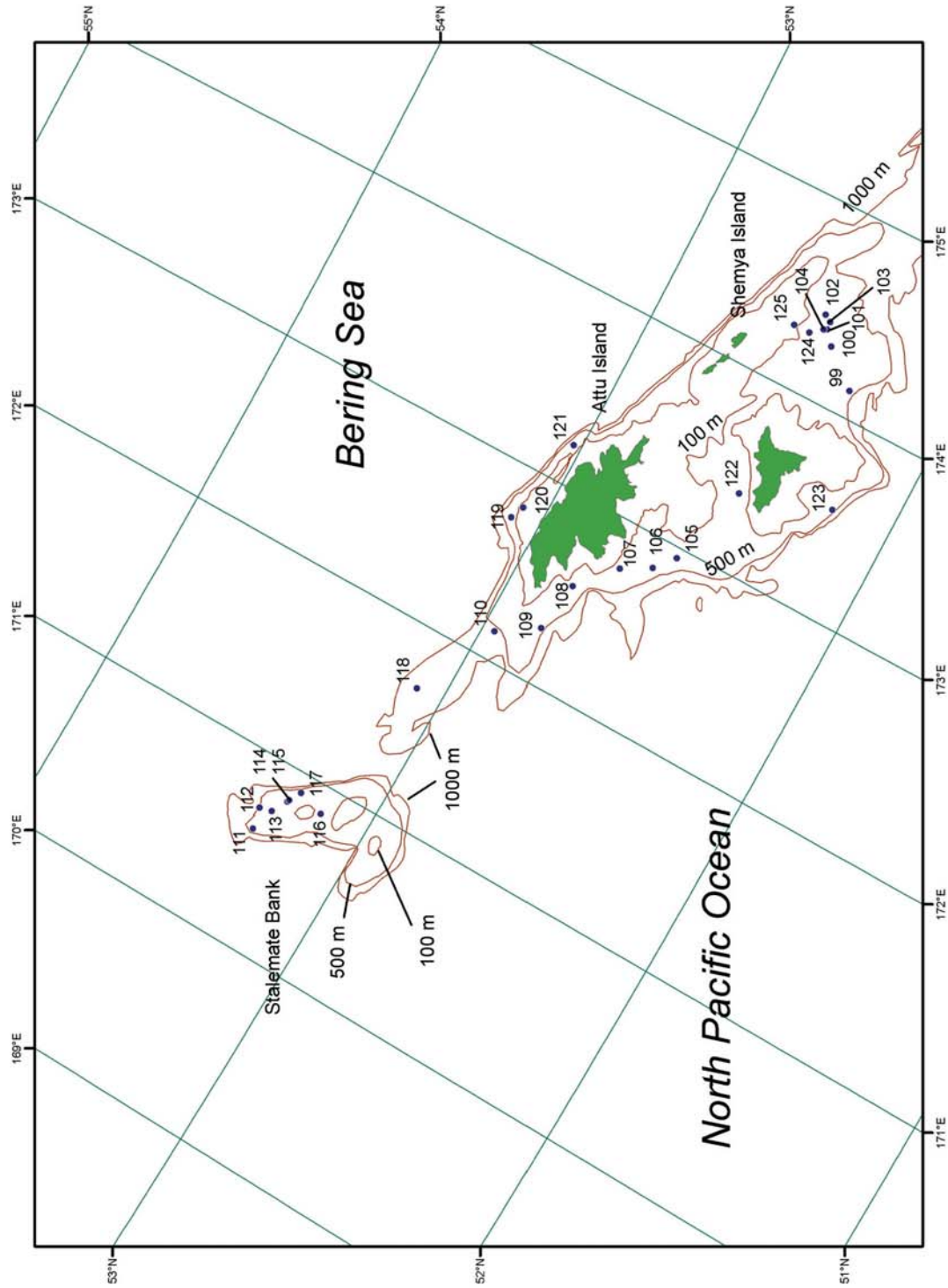


Figure 5. -- Stations surveyed by the chartered trawler FN *Gladiator* in the vicinity of Buldir Island.



**Figure 6.** -- Stations surveyed by the chartered trawler F/V *Gladiator* in the vicinity of Attu Island.



**Section 1 (continued)****Fishing Log for the F/V *Gladiator***

- Summary listings of species catches by haul
- Haul start/end latitude and longitude in degrees, minutes, and decimal minutes
- Bottom depth in meters
- Duration of tow in minutes
- Distance fished in kilometers
- Performance
- Catch weight in kilograms of principal species
- Total catch weight in kilograms of all species



Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	1	2	3	4	5	6	7
Start date & time	06/06/06 08	06/06/06 12	06/06/06 15	06/06/06 19	06/07/06 07	06/07/06 12	06/07/06 14
Start latitude	N 5422.34	N 5422.34	N 5422.72	N 5421.15	N 5417.11	N 5413.74	N 5415.46
Start longitude	W 16536.74	W 16536.74	W 16537.19	W 16542.30	W 16553.24	W 16551.51	W 16559.98
End latitude	N 5422.58	N 5423.25	N 5423.23	N 5421.50	N 5417.54	N 5414.29	N 5414.98
End longitude	W 16535.98	W 16536.56	W 16537.06	W 16541.010	W 16552.03	W 16552.57	W 16601.00
Bottom depth (m)	86		89	97	98	65	109
Duration (minutes)	10.8	19.2	10.8	15.6	17.4	17.4	16.8
Distance fished (km)	0.963	1.721	0.974	1.483	1.565	1.56	1.454
Performance	-5.2	-2.4	-2.4	0	0	0	0
Atka mackerel	5	7	8	3	< 1	4	0
Pacific cod	33	107	48	21	23	146	4
Walleye pollock	0	< 1	1	28	148	29	4
Pacific ocean perch	< 1	21	< 1	< 1	0	0	0
Northern rockfish	0	27	0	< 1	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	11	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	< 1	4	0	61	88	103	417
Pacific halibut	0	2	0	8	17	82	37
Northern rock sole	5	57	21	8	10	15	35
Southern rock sole	0	0	0	0	2	79	2
Kamchatka flounder	0	0	< 1	< 1	1	0	< 1
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	< 1	5	2	43	0
Rex sole	0	0	0	< 1	6	0	17
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	0	0	2	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	3	53	20	10	0	13	17
Other sculpins	0	< 1	< 1	8	< 1	17	6
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	30	1	0	0	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	< 1	< 1	0	< 1	0	< 1
Magistrate armhook squid	0	0	0	< 1	< 1	0	0
Sponges	124	353	140	0	0	0	< 1
Starfish	< 1	2	< 1	< 1	0	13	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	0	0	8	0	0
Snails	0	1	< 1	< 1	< 1	< 1	< 1
Other invertebrates	6	9	6	4	< 1	< 1	< 1
Total catch (kg)	179	683	249	160	309	544	542

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	8	9	10	11	12	13	14
Start date & time	06/08/06 07	06/08/06 11	06/08/06 14	06/08/06 17	06/10/06 15	06/10/06 16	06/11/06 07
Start latitude	N 5401.98	N 5348.10	N 5346.63	N 5343.35	N 5337.91	N 5334.88	N 5325.99
Start longitude	W 16639.13	W 16707.34	W 16716.22	W 16715.49	W 16723.66	W 16722.13	W 16833.56
End latitude	N 5401.73	N 5348.79	N 5345.97	N 5342.84	N 5337.15	N 5335.68	N 5325.89
End longitude	W 16637.82	W 16707.91	W 16716.76	W 16714.48	W 16723.56	W 16722.09	W 16834.01
Bottom depth (m)	76	46	163	99	95	109	125
Duration (minutes)	18.6	18	17.4	17.4	18	19.2	6.6
Distance fished (km)	1.552	1.493	1.36	1.498	1.425	1.538	0.54
Performance	0	0	0	0	0	0	-5.7
Atka mackerel	323	0	< 1	20	0	0	< 1
Pacific cod	48	0	65	6	7	43	2
Walleye pollock	174	2	35	3	< 1	2	0
Pacific ocean perch	0	0	3	3	0	0	< 1
Northern rockfish	0	0	0	4166	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	129	0	1	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	1	0	0	0	0
Arrowtooth flounder	32	20	27	9	25	9	10
Pacific halibut	18	106	5	22	34	3	6
Northern rock sole	23	29	0	10	3	< 1	5
Southern rock sole	56	163	6	42	38	5	3
Kamchatka flounder	< 1	0	< 1	< 1	0	< 1	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	9	9	1	1	59	9	1
Rex sole	8	0	28	1	7	7	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	5	0	0	0	0	0
Skate unident.	4	46	8	< 1	0	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	2	0	0	4	0	0	0
Other sculpins	4	0	< 1	< 1	0	4	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	0	0	< 1	6	< 1	< 1	3
Bairdi Tanner crab	0	0	0	0	0	< 1	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	< 1	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	< 1	< 1	0
Magistrate armhook squid	0	0	2	0	0	0	0
Sponges	0	< 1	0	45	< 1	1	< 1
Starfish	0	< 1	0	< 1	< 1	< 1	0
Soft coral	0	0	0	0	0	< 1	0
Stony coral unident.	0	0	0	2	0	0	0
Octopus	0	0	7	0	0	0	0
Snails	0	0	< 1	< 1	< 1	< 1	< 1
Other invertebrates	1	3	2	3	1	8	2
Total catch (kg)	702	381	191	4476	175	94	32



Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	15	16	17	18	19	21	22
Start date & time	06/11/06 09	06/11/06 12	06/11/06 13	06/11/06 19	06/12/06 07	06/12/06 12	06/12/06 14
Start latitude	N 5326.90	N 5323.58	N 5323.08	N 5306.78	N 5302.47	N 5303.69	N 5257.24
Start longitude	W 16830.29	W 16835.49	W 16843.34	W 16859.35	W 16905.98	W 16905.32	W 16917.99
End latitude	N 5327.50	N 5322.96	N 5323.66	N 5307.16	N 5303.55	N 5303.07	N 5257.54
End longitude	W 16829.20	W 16836.07	W 16842.44	W 16858.15	W 16905.14	W 16905.96	W 16916.70
Bottom depth (m)	118	106	268	262	193	232	406
Duration (minutes)	19.8	16.8	18	19.2	23.4	16.2	21.6
Distance fished (km)	1.698	1.351	1.51	1.541	2.316	1.393	1.642
Performance	0	0	0	0	0	5.8	0
Atka mackerel	2	0	< 1	2	2	3	0
Pacific cod	30	2	14	27	107	39	0
Walleye pollock	< 1	< 1	0	92	< 1	0	7
Pacific ocean perch	0	0	2117	221	272	843	3
Northern rockfish	< 1	0	3	1	< 1	3	< 1
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	< 1	0	5
Blackspotted rockfish	0	0	2	1	0	1	85
Shortspine thornyhead	0	0	6	0	0	0	1
Dusky rockfish	0	0	1	0	0	1	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	< 1	< 1	0	< 1	< 1
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	27	< 1	42	219	5	10	133
Pacific halibut	8	62	9	0	8	2	0
Northern rock sole	37	7	0	0	< 1	0	0
Southern rock sole	20	4	0	0	0	0	0
Kamchatka flounder	< 1	0	0	< 1	0	0	220
Greenland turbot	0	0	0	0	0	0	74
Flathead sole	2	1	0	1	0	0	0
Rex sole	< 1	0	15	8	0	0	0
Dover sole	0	0	0	2	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	30	25	0	4	18	6	22
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	6	0	0	0	< 1	0	0
Other sculpins	10	0	1	10	11	3	14
Eelpout unident.	0	0	0	0	0	0	0
Other fish	0	0	6	< 1	0	< 1	1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	2	0	0	0	0
Golden king crab	0	0	0	0	2	0	4
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	< 1	0	0	0	0
Scallop unident.	0	< 1	< 1	< 1	< 1	0	0
Magistrate armhook squid	0	0	12	1	0	0	8
Sponges	7	< 1	< 1	2	315	2	11
Starfish	1	< 1	< 1	< 1	4	< 1	< 1
Soft coral	< 1	0	0	0	< 1	0	0
Stony coral unident.	0	0	0	0	< 1	0	0
Octopus	0	0	0	< 1	0	0	1
Snails	< 1	< 1	< 1	0	< 1	< 1	< 1
Other invertebrates	8	3	< 1	5	12	5	10
Total catch (kg)	190	105	2226	599	761	919	598

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	23	25	27	28	30	32	34
Start date & time	06/12/06 16	06/13/06 11	06/13/06 19	06/14/06 07	06/14/06 14	06/14/06 17	06/14/06 20
Start latitude	N 5257.00	N 5306.91	N 5257.00	N 5233.49	N 5216.77	N 5223.92	N 5224.98
Start longitude	W 16926.05	W 16956.30	W 17023.100	W 17042.17	W 17039.13	W 17034.61	W 17033.76
End latitude	N 5256.48	N 5306.82	N 5257.00	N 5233.84	N 5216.64	N 5222.78	N 5225.62
End longitude	W 16925.73	W 16954.84	W 17023.100	W 17041.01	W 17040.55	W 17035.21	W 17033.02
Bottom depth (m)	443	217		92	160	364	372
Duration (minutes)	12.6	20.4	60	17.4	19.2	22.2	15
Distance fished (km)	1.06	1.746		1.507	1.665	2.27	1.494
Performance	5.8	0	-5.7	0	2.4	5.41	3.13
Atka mackerel	0	370	0	0	0	0	0
Pacific cod	0	233	64	0	15	0	0
Walleye pollock	3	0	0	0	< 1	0	2
Pacific ocean perch	2	0	683	0	246	25	8
Northern rockfish	0	0	0	0	25	0	0
Shortraker rockfish	8	0	0	0	0	0	3
Rougheye rockfish	1	0	0	0	0	0	0
Blackspotted rockfish	8	0	0	0	< 1	6	8
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	5	0	0	0	0	0	2
Arrowtooth flounder	40	7	54	0	0	68	308
Pacific halibut	47	54	34	31	20	0	8
Northern rock sole	0	13	0	1	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	228	< 1	0	0	0	< 1	0
Greenland turbot	78	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	1	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	11	16	30	0	31	45	4
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	2	< 1	11	0	0	0
Other sculpins	25	< 1	7	0	< 1	0	0
Eelpout unident.	< 1	0	0	0	0	0	0
Other fish	< 1	< 1	7	< 1	38	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	6	10	3	0	< 1	5	15
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	< 1	< 1	0	0
Magistrate armhook squid	< 1	0	0	0	0	0	< 1
Sponges	108	27	48	2	437	0	0
Starfish	< 1	< 1	< 1	< 1	2	0	0
Soft coral	108	0	0	0	2	0	0
Stony coral unident.	2	< 1	< 1	< 1	7	0	0
Octopus	0	0	0	0	1	0	0
Snails	0	0	0	< 1	0	< 1	0
Other invertebrates	7	11	7	4	34	4	3
Total catch (kg)	692	745	937	52	859	153	362

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	35	36	37	38	39	40	41
Start date & time	06/15/06 07	06/15/06 11	06/16/06 07	06/16/06 08	06/16/06 14	06/17/06 07	06/17/06 10
Start latitude	N 5238.80	N 5224.26	N 5251.97	N 5251.93	N 5222.05	N 5214.74	N 5213.02
Start longitude	W 17012.16	W 17005.58	W 17120.56	W 17118.08	W 17114.78	W 17141.96	W 17138.15
End latitude	N 5238.90	N 5223.74	N 5252.24	N 5252.53	N 5221.75	N 5214.02	N 5213.50
End longitude	W 17013.48	W 17006.79	W 17119.25	W 17117.29	W 17115.47	W 17142.34	W 17137.63
Bottom depth (m)	234	250	206	204	328	409	455
Duration (minutes)	18.6	19.2	16.8	16.8	12.6	16.2	13.2
Distance fished (km)	1.526	1.725	1.572	1.479	1.009	1.451	1.11
Performance	2.5	0	0	0	-5.2	2.4	5.8
Atka mackerel	< 1	0	0	0	0	0	0
Pacific cod	4	0	12	3	0	0	0
Walleye pollock	12	111	< 1	< 1	0	0	0
Pacific ocean perch	38	657	0	21	109	2	1
Northern rockfish	0	0	< 1	0	< 1	0	0
Shortraker rockfish	0	0	0	0	0	237	3
Rougheye rockfish	0	0	0	0	6	0	0
Blackspotted rockfish	2	0	0	0	45	28	0
Shortspine thornyhead	0	3	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	0	0	0	0	0
Sablefish	0	0	0	0	0	0	7
Arrowtooth flounder	103	9	120	89	11	0	2
Pacific halibut	6	0	5	79	0	0	0
Northern rock sole	0	0	0	0	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	< 1	0	0	0	20
Greenland turbot	0	0	0	0	0	11	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	< 1	0	0	0	0	0
Dover sole	0	0	0	< 1	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	17	8	18	108	12	9	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	< 1	0	0	0	13	0	0
Other sculpins	14	11	3	2	28	7	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	4	3	1	< 1	< 1	48	275
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	5	< 1	2	2	3	2	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	< 1	0	0	0	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	135	215	284	93	68	< 1	0
Starfish	< 1	< 1	< 1	< 1	< 1	< 1	0
Soft coral	< 1	< 1	< 1	< 1	0	0	0
Stony coral unident.	2	0	5	1	2	0	0
Octopus	0	< 1	0	0	0	0	0
Snails	0	< 1	< 1	0	0	< 1	< 1
Other invertebrates	35	23	5	7	10	8	14
Total catch (kg)	379	1040	458	408	309	354	323

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	42	43	44	45	46	47	48
Start date & time	06/17/06 12	06/17/06 20	06/18/06 11	06/18/06 16	06/19/06 14	06/19/06 15	06/19/06 18
Start latitude	N 5211.46	N 5207.67	N 5157.63	N 5203.11	N 5154.63	N 5150.66	N 5151.99
Start longitude	W 17140.78	W 17229.15	W 17337.87	W 17408.95	W 17346.71	W 17355.34	W 17405.15
End latitude	N 5211.22	N 5207.90	N 5157.64	N 5202.69	N 5154.64	N 5150.70	N 5151.97
End longitude	W 17142.11	W 17227.100	W 17339.10	W 17407.86	W 17347.94	W 17354.20	W 17404.07
Bottom depth (m)	463	163	99	87	125	267	151
Duration (minutes)	21.6	16.2	16.2	17.4	16.8	19.2	15
Distance fished (km)	1.637	1.408	1.397	1.521	1.42	1.335	1.243
Performance	5.2	0	0	0	0	0	5.8
Atka mackerel	0	14	0	0	0	< 1	< 1
Pacific cod	0	41	20	0	4	23	39
Walleye pollock	0	5	0	< 1	< 1	23	0
Pacific ocean perch	0	103	0	0	< 1	990	3
Northern rockfish	0	377	2	0	157	5	16
Shortraker rockfish	3	0	0	0	0	20	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	1	0	0	0	0	66	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	1	0	0	0	0	4
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	< 1	0
Sablefish	2	0	0	0	0	2	0
Arrowtooth flounder	0	0	3	9	< 1	9	7
Pacific halibut	0	36	10	7	14	3	31
Northern rock sole	0	5	106	30	18	0	6
Southern rock sole	0	0	9	4	< 1	0	0
Kamchatka flounder	11	0	0	< 1	0	0	< 1
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	1	0	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	19	59	0	0	9	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	16	2	0	12	2	3
Other sculpins	0	50	5	< 1	0	50	< 1
Eelpout unident.	5	0	0	0	0	0	0
Other fish	83	2	0	< 1	< 1	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	< 1	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	< 1	0	0	0	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	0	432	< 1	< 1	17	91	10
Starfish	0	2	< 1	0	< 1	2	< 1
Soft coral	0	< 1	0	0	0	< 1	0
Stony coral unident.	0	8	0	0	0	0	< 1
Octopus	0	1	6	0	0	3	0
Snails	0	< 1	0	0	< 1	< 1	< 1
Other invertebrates	7	21	28	1	22	14	11
Total catch (kg)	131	1173	191	53	254	1304	131

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	49	50	51	52	53	55	56
Start date & time	06/19/06 20	06/20/06 11	06/20/06 16	06/21/06 07	06/21/06 10	06/22/06 08	06/22/06 11
Start latitude	N 5150.37	N 5210.60	N 5212.49	N 5215.77	N 5220.12	N 5230.55	N 5229.24
Start longitude	W 17355.15	W 17243.37	W 17249.76	W 17252.96	W 17244.96	W 17216.01	W 17233.67
End latitude	N 5150.42	N 5210.89	N 5212.83	N 5215.49	N 5220.90	N 5231.15	N 5229.00
End longitude	W 17354.11	W 17242.34	W 17250.38	W 17252.04	W 17244.66	W 17215.87	W 17234.78
Bottom depth (m)	313	151	166	165	459	220	411
Duration (minutes)	15	16.2	11.4	13.8	21.6	16.2	15.6
Distance fished (km)	1.203	1.399	0.973	1.216	1.617	1.181	1.347
Performance	0	0	5.1	0	0	5	0
Atka mackerel	1	863	14179	39	0	1358	2
Pacific cod	7	2989	138	0	0	99	0
Walleye pollock	7	3155	3	3829	0	2	0
Pacific ocean perch	153	0	0	33	0	42	0
Northern rockfish	0	0	0	0	0	0	0
Shortraker rockfish	41	0	0	0	12	0	10
Rougheye rockfish	5	0	0	0	0	0	0
Blackspotted rockfish	228	0	0	0	0	0	2
Shortspine thornyhead	< 1	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	0	0	0
Sablefish	< 1	0	0	0	79	0	60
Arrowtooth flounder	2	0	15	31	0	12	< 1
Pacific halibut	0	49	2	3	0	0	0
Northern rock sole	0	6	6	34	0	4	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	18	31	0	169
Greenland turbot	0	0	0	0	684	0	491
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	322	196	98	156	76	117
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	8	5	15	0	0	0
Other sculpins	12	2	0	< 1	0	4	11
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	< 1	0	0	9340	< 1	4
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	< 1	0	0	0	4	4	5
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	< 1	0	0	0
Magistrate armhook squid	3	0	0	< 1	0	0	< 1
Sponges	45	8	< 1	0	1	27	< 1
Starfish	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Soft coral	< 1	< 1	0	0	0	7	< 1
Stony coral unident.	0	0	< 1	0	0	1	0
Octopus	0	0	0	0	0	0	0
Snails	0	0	0	< 1	0	< 1	0
Other invertebrates	10	2	2	11	< 1	7	6
Total catch (kg)	517	7405	14547	4112	10309	1643	881

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	57	58	59	60	61	62	63
Start date & time	06/22/06 16	06/22/06 18	06/22/06 20	06/23/06 08	06/23/06 11	06/23/06 13	06/23/06 16
Start latitude	N 5217.63	N 5216.12	N 5217.57	N 5215.56	N 5233.70	N 5230.31	N 5229.46
Start longitude	W 17306.37	W 17311.30	W 17322.13	W 17340.100	W 17319.13	W 17332.60	W 17333.60
End latitude	N 5217.52	N 5216.13	N 5217.66	N 5216.00	N 5233.70	N 5230.19	N 5229.05
End longitude	W 17307.61	W 17312.49	W 17323.41	W 17340.00	W 17317.88	W 17333.77	W 17334.58
Bottom depth (m)	405	257	365	146	212	244	202
Duration (minutes)	16.8	15.6	16.8	15.6	15.6	15	15.6
Distance fished (km)	1.447	1.354	1.478	1.538	1.414	1.366	1.375
Performance	0	3.11	0	0	0	0	5.8
Atka mackerel	0	0	0	2	0	0	0
Pacific cod	0	20	0	1	23	6	9
Walleye pollock	4	127	3	11	0	3	1
Pacific ocean perch	0	77	< 1	0	3984	8954	89
Northern rockfish	0	0	0	0	< 1	0	0
Shortraker rockfish	0	0	11	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	2	3	0	0	< 1	< 1
Shortspine thornyhead	2	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	99	2	23	0	56	0	0
Arrowtooth flounder	0	11	36	8	47	18	55
Pacific halibut	0	0	7	11	0	0	0
Northern rock sole	0	1	0	0	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	23	9	58	7	7	2	15
Greenland turbot	3	0	55	0	0	0	0
Flathead sole	0	< 1	0	< 1	< 1	0	0
Rex sole	11	7	33	5	1	1	< 1
Dover sole	1	0	4	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	1	8	0	0	18	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	0	5	2	< 1	4	12	14
Eelpout unident.	1	< 1	< 1	0	0	0	0
Other fish	61	< 1	136	0	2	< 1	1
Bairdi Tanner crab	0	0	0	< 1	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	< 1	< 1	0	3	5	8
Northern shrimp	0	< 1	< 1	< 1	0	0	< 1
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	< 1	1	4	2	< 1	< 1	0
Sponges	0	10	< 1	< 1	8	7	194
Starfish	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	< 1
Stony coral unident.	0	0	0	0	0	0	< 1
Octopus	0	0	< 1	3	0	0	0
Snails	0	< 1	0	< 1	0	0	0
Other invertebrates	1	2	1	1	< 1	< 1	9
Total catch (kg)	208	284	379	56	4156	9011	396

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	64	65	66	67	68	69	70
Start date & time	06/24/06 08	06/24/06 11	06/24/06 13	06/26/06 14	06/26/06 18	06/27/06 08	06/27/06 11
Start latitude	N 5217.03	N 5208.49	N 5208.57	N 5201.20	N 5152.36	N 5148.15	N 5148.68
Start longitude	W 17445.24	W 17506.75	W 17516.84	W 17623.25	W 17542.34	W 17443.11	W 17510.45
End latitude	N 5217.65	N 5208.20	N 5208.25	N 5201.54	N 5152.74	N 5148.07	N 5148.64
End longitude	W 17444.48	W 17507.84	W 17517.82	W 17622.06	W 17541.07	W 17444.42	W 17509.18
Bottom depth (m)	162	112	214	114	121	318	242
Duration (minutes)	15.6	15.6	14.4	16.8	16.8	17.4	16.2
Distance fished (km)	1.478	1.384	1.298	1.523	1.644	1.521	1.461
Performance	0	5.8	0	0	0	5.8	1.12
Atka mackerel	0	0	0	< 1	0	0	0
Pacific cod	15	8	42	2	8	1	0
Walleye pollock	3	0	3	2	0	4	2
Pacific ocean perch	0	0	730	204	0	27	41
Northern rockfish	< 1	< 1	< 1	1	0	0	0
Shortraker rockfish	0	0	0	0	0	15	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	69	0
Shortspine thornyhead	0	0	0	0	0	12	0
Dusky rockfish	0	0	2	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	0	0	0	< 1	0
Sablefish	0	0	0	0	0	1	0
Arrowtooth flounder	28	91	< 1	153	23	4	< 1
Pacific halibut	5	27	4	20	10	0	0
Northern rock sole	8	22	3	61	60	0	17
Southern rock sole	0	0	0	0	< 1	0	0
Kamchatka flounder	21	7	2	5	< 1	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	1	< 1	0	21	20	0	< 1
Rex sole	0	0	0	3	1	29	2
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	2	37	7	0	1	2	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	9	< 1	1	1	0	0
Other sculpins	< 1	< 1	9	< 1	< 1	3	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	< 1	< 1	< 1	< 1	20	< 1
Bairdi Tanner crab	< 1	0	0	0	< 1	< 1	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	< 1	0	0	0	0
Northern shrimp	< 1	0	0	0	0	0	< 1
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	< 1	< 1	4	< 1	0	0
Magistrate armhook squid	0	0	< 1	0	0	6	1
Sponges	< 1	0	16	< 1	< 1	< 1	< 1
Starfish	< 1	< 1	1	0	< 1	< 1	0
Soft coral	0	0	0	0	0	< 1	0
Stony coral unident.	0	0	< 1	0	0	0	0
Octopus	18	0	< 1	13	< 1	0	0
Snails	< 1	0	< 1	< 1	< 1	0	0
Other invertebrates	2	2	25	2	3	3	9
Total catch (kg)	106	203	846	493	129	184	72

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	71	72	73	74	75	76	77
Start date & time	06/27/06 15	06/27/06 18	06/28/06 08	06/28/06 10	06/28/06 14	06/28/06 17	06/28/06 19
Start latitude	N 5145.77	N 5157.42	N 5138.24	N 5136.44	N 5133.50	N 5137.84	N 5141.06
Start longitude	W 17525.75	W 17517.34	W 17614.04	W 17635.69	W 17645.71	W 17710.59	W 17711.32
End latitude	N 5145.59	N 5157.68	N 5138.53	N 5136.07	N 5133.28	N 5138.19	N 5140.90
End longitude	W 17527.01	W 17516.04	W 17612.86	W 17637.01	W 17647.17	W 17709.25	W 17712.61
Bottom depth (m)	284	90	255	151	174	167	75
Duration (minutes)	18	17.4	16.8	18.6	19.8	19.2	17.4
Distance fished (km)	1.508	1.581	1.481	1.691	1.774	1.73	1.542
Performance	5.8	0	0	0	0	0	0
Atka mackerel	0	0	0	0	0	0	217
Pacific cod	4	0	3	27	26	10	118
Walleye pollock	1	0	6	2	< 1	0	0
Pacific ocean perch	17	2	162	1400	79	352	5
Northern rockfish	2	< 1	1	834	65	1	0
Shortraker rockfish	2	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	6	0	< 1	0	0
Shortspine thornyhead	0	0	2	0	0	0	0
Dusky rockfish	0	0	0	9	0	0	0
Dark rockfish	0	0	0	< 1	0	0	0
Other rockfish	0	0	< 1	1	0	0	0
Sablefish	2	0	0	0	0	0	0
Arrowtooth flounder	8	5	5	29	15	14	5
Pacific halibut	10	13	0	31	0	0	11
Northern rock sole	7	9	< 1	2	< 1	15	27
Southern rock sole	0	2	0	0	0	0	0
Kamchatka flounder	0	0	2	1	6	2	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	< 1	0	0	0	0	0
Rex sole	11	0	< 1	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	16	0	< 1	0	13	0	12
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	1	0
Other sculpins	0	0	4	< 1	2	< 1	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	0	2	< 1	0	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	< 1	0	< 1	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	< 1	< 1	0	< 1	< 1
Magistrate armhook squid	< 1	0	1	< 1	0	0	0
Sponges	< 1	< 1	3	7	52	0	< 1
Starfish	< 1	0	0	< 1	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	< 1	< 1	0	< 1
Octopus	0	0	< 1	2	< 1	0	0
Snails	0	0	0	< 1	0	0	0
Other invertebrates	< 1	< 1	6	< 1	4	11	< 1
Total catch (kg)	80	31	205	2348	266	407	397



Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	78	79	80	81	82	83	84
Start date & time	06/29/06 08	06/29/06 22	06/30/06 08	06/30/06 12	06/30/06 15	06/30/06 18	06/30/06 20
Start latitude	N 5154.93	N 5150.12	N 5136.36	N 5133.74	N 5125.31	N 5126.24	N 5130.59
Start longitude	W 17700.98	W 17735.02	W 17802.95	W 17805.47	W 17821.77	W 17825.94	W 17835.35
End latitude	N 5155.64	N 5149.68	N 5136.45	N 5133.63	N 5124.99	N 5126.62	N 5130.65
End longitude	W 17701.66	W 17736.01	W 17804.08	W 17806.74	W 17820.56	W 17827.31	W 17836.71
Bottom depth (m)	95	45	88	229	367	381	181
Duration (minutes)	16.8	17.4	15	18	17.4	20.4	17.4
Distance fished (km)	1.594	1.475	1.34	1.505	1.562	1.789	1.589
Performance	0	0	0	0	0	0	0
Atka mackerel	4	< 1	8	0	0	0	0
Pacific cod	17	32	263	19	0	0	8
Walleye pollock	< 1	0	2	10	< 1	0	19
Pacific ocean perch	0	0	0	1953	4	3	0
Northern rockfish	0	0	1712	< 1	0	0	0
Shortraker rockfish	0	0	0	0	85	96	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	< 1	23	28	0
Shortspine thornyhead	0	0	0	2	2	13	0
Dusky rockfish	0	0	669	0	0	0	0
Dark rockfish	0	0	8	0	0	0	0
Other rockfish	0	0	0	< 1	< 1	< 1	0
Sablefish	0	0	0	101	4	9	42
Arrowtooth flounder	31	0	< 1	50	5	61	34
Pacific halibut	38	24	4	7	0	7	5
Northern rock sole	101	22	28	30	0	0	97
Southern rock sole	< 1	0	1	0	0	0	0
Kamchatka flounder	< 1	0	0	4	< 1	5	5
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	< 1	0	0	0
Rex sole	0	0	0	0	0	4	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	23	8	9	30	4	5	10
Shark unident.	0	0	0	2	0	0	0
Yellow Irish lord	11	0	5	0	0	0	2
Other sculpins	6	0	0	27	< 1	< 1	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	0	< 1	9	4	158	586	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	< 1	0
Northern shrimp	0	0	0	0	< 1	0	0
Sidestripe shrimp	0	0	0	0	< 1	0	0
Scallop unident.	< 1	0	0	0	0	0	< 1
Magistrate armhook squid	0	0	0	0	< 1	0	0
Sponges	< 1	0	117	24	< 1	13	1
Starfish	0	0	< 1	0	< 1	< 1	0
Soft coral	0	0	2	< 1	< 1	< 1	0
Stony coral unident.	0	0	2	2	< 1	< 1	0
Octopus	0	5	0	0	0	0	0
Snails	< 1	0	< 1	0	0	0	0
Other invertebrates	2	< 1	6	4	10	17	14
Total catch (kg)	235	91	2848	2270	296	835	236

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	85	86	87	88	89	90	91
Start date & time	07/01/06 08	07/01/06 10	07/01/06 13	07/01/06 16	07/02/06 08	07/02/06 10	07/02/06 17
Start latitude	N 5130.60	N 5131.13	N 5136.12	N 5138.97	N 5139.71	N 5138.67	N 5140.30
Start longitude	W 17838.52	W 17844.91	W 17909.54	W 17854.70	W 17829.27	W 17830.82	W 17818.67
End latitude	N 5130.82	N 5131.16	N 5135.61	N 5136.69	N 5139.86	N 5138.83	N 5140.84
End longitude	W 17837.23	W 17843.54	W 17910.70	W 17854.10	W 17830.58	W 17829.76	W 17818.95
Bottom depth (m)	165	81	230	303	415	218	261
Duration (minutes)	17.4	18	19.2	9	17.4	13.8	11.4
Distance fished (km)	1.573	1.6	1.676		1.55	1.277	1.1
Performance	0	0	0	-2.4	0	4.4	-2.4
Atka mackerel	1	0	0	0	0	0	0
Pacific cod	4	133	12	0	0	6	0
Walleye pollock	37	0	3727	0	29	1968	226
Pacific ocean perch	0	0	1313	5	0	6805	124
Northern rockfish	0	0	< 1	0	0	0	0
Shortraker rockfish	0	0	0	19	5	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	10	5	0	0
Shortspine thornyhead	0	0	0	0	3	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	< 1	0	0
Sablefish	9	0	111	7	25	582	3
Arrowtooth flounder	138	4	23	5	14	117	0
Pacific halibut	2	6	0	12	0	4	0
Northern rock sole	284	174	< 1	1	0	57	2
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	12	< 1	13	32	596	5	9
Greenland turbot	0	0	17	0	23	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	< 1	0	0	0	< 1	59	0
Dover sole	0	0	0	0	2	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	14	0	90	69	2	5	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	3	0	0	0	0	2	0
Other sculpins	3	5	4	11	0	2	6
Eelpout unident.	0	0	0	0	< 1	0	0
Other fish	< 1	0	< 1	0	50	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	2	0	0	0	4
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	0	< 1	0	4	0	0
Sponges	< 1	0	< 1	121	< 1	< 1	17
Starfish	0	< 1	< 1	< 1	0	0	0
Soft coral	0	0	0	< 1	0	0	1
Stony coral unident.	0	< 1	< 1	1	0	0	< 1
Octopus	0	0	0	0	0	0	0
Snails	0	0	< 1	0	< 1	0	0
Other invertebrates	5	5	3	18	< 1	< 1	8
Total catch (kg)	514	326	5317	313	758	9611	400

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	92	93	94	95	96	97	98
Start date & time	07/04/06 08	07/04/06 18	07/05/06 08	07/05/06 12	07/05/06 14	07/05/06 18	07/05/06 20
Start latitude	N 5116.46	N 5136.24	N 5201.85	N 5202.74	N 5202.90	N 5158.53	N 5156.25
Start longitude	E 17919.87	E 17817.00	E 17712.56	E 17723.79	E 17728.00	E 17650.14	E 17646.58
End latitude	N 5116.40	N 5136.33	N 5202.00	N 5201.99	N 5203.75	N 5158.55	N 5155.99
End longitude	E 17919.03	E 17816.95	E 17712.17	E 17723.76	E 17728.24	E 17649.12	E 17645.76
Bottom depth (m)	132	343	89	139	84	151	484
Duration (minutes)	12	7.8	11.4	16.8	17.4	15	13.2
Distance fished (km)	0.996	0.406	0.928	1.422	1.642	1.184	1.096
Performance	1.11	-1.2	-1.2	0	0	0	1.2
Atka mackerel	87	0	1402	< 1	14	0	0
Pacific cod	470	0	265	10	18	4	0
Walleye pollock	25	0	0	11	0	11	0
Pacific ocean perch	1681	0	0	< 1	0	679	0
Northern rockfish	5855	0	1410	29	5	43	0
Shortraker rockfish	0	3	0	0	0	0	2
Rougheye rockfish	0	2	0	0	0	0	0
Blackspotted rockfish	0	3	0	0	0	< 1	0
Shortspine thornyhead	0	12	0	0	0	0	37
Dusky rockfish	19	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	4	< 1	0	0	0	< 1	< 1
Sablefish	0	0	0	0	0	0	2
Arrowtooth flounder	0	0	0	0	2	0	0
Pacific halibut	0	0	0	0	0	20	0
Northern rock sole	1	0	0	4	413	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	3	2	0	32
Greenland turbot	0	0	0	0	0	0	21
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	< 1	0	0	0	< 1	0
Dover sole	0	0	0	0	< 1	< 1	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	50	2	0	0	0	< 1	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	3	0	0	3	< 1	< 1	0
Other sculpins	< 1	2	0	13	18	1	2
Eelpout unident.	0	0	0	0	0	0	1
Other fish	117	12	7	2	< 1	< 1	191
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	< 1	< 1	0	0	< 1	2
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	< 1	< 1	0	0
Magistrate armhook squid	0	0	< 1	< 1	0	0	0
Sponges	189	38	227	4	2	24	4
Starfish	2	< 1	0	< 1	< 1	< 1	< 1
Soft coral	< 1	< 1	< 1	0	0	< 1	< 1
Stony coral unident.	38	< 1	85	0	< 1	0	0
Octopus	2	0	0	0	3	0	0
Snails	< 1	0	< 1	0	0	< 1	0
Other invertebrates	9	3	34	4	3	4	< 1
Total catch (kg)	8555	66	3432	85	481	792	257

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	99	100	101	102	103	104	105
Start date & time	07/06/06 09	07/06/06 11	07/06/06 14	07/06/06 16	07/06/06 18	07/06/06 19	07/07/06 09
Start latitude	N 5219.52	N 5226.59	N 5228.78	N 5230.35	N 5228.91	N 5229.39	N 5233.74
Start longitude	E 17408.37	E 17418.07	E 17422.19	E 17426.03	E 17424.71	E 17421.72	E 17256.87
End latitude	N 5219.58	N 5226.04	N 5228.27	N 5230.70	N 5229.41	N 5228.90	N 5233.07
End longitude	E 17409.79	E 17417.06	E 17421.28	E 17427.17	E 17425.71	E 17420.81	E 17257.27
Bottom depth (m)	383	225	223	228	275	186	164
Duration (minutes)	20.4	16.8	16.8	16.8	16.8	16.2	16.2
Distance fished (km)	1.659	1.588	1.449	1.502	1.504	1.409	1.378
Performance	0	5	0	0	0	0	0
Atka mackerel	0	30	3	0	0	0	0
Pacific cod	0	18	2	5	6	37	16
Walleye pollock	0	3	6	1	0	7	0
Pacific ocean perch	0	293	1508	0	< 1	5	0
Northern rockfish	0	< 1	< 1	0	0	< 1	0
Shortraker rockfish	4	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	4	0	0	0	0	0	0
Shortspine thornyhead	124	0	0	0	< 1	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	< 1	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	29	52	46	34	80	7	148
Pacific halibut	0	0	0	0	0	72	0
Northern rock sole	0	10	< 1	0	0	< 1	9
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	9	1	3	4	2	8	4
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	9	30	26	15	16	38
Rex sole	13	3	40	56	30	1	20
Dover sole	1	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	6	< 1	14	0	< 1	29	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	< 1	< 1	0	0	< 1	5	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	124	< 1	< 1	< 1	1	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	< 1	< 1
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	4	5	0	0	0	0
Northern shrimp	0	< 1	0	0	< 1	< 1	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	12	0	0	0	0	0	0
Sponges	0	11	< 1	0	< 1	< 1	< 1
Starfish	0	< 1	0	0	0	< 1	< 1
Soft coral	0	< 1	0	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	0	0	0	0	0
Snails	0	0	0	0	0	0	0
Other invertebrates	2	< 1	1	2	1	1	7
Total catch (kg)	205	436	1659	128	137	191	242

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	106	107	108	109	110	111	112
Start date & time	07/07/06 11	07/07/06 14	07/07/06 16	07/07/06 17	07/07/06 20	07/08/06 08	07/08/06 11
Start latitude	N 5236.97	N 5242.41	N 5248.78	N 5250.15	N 5257.64	N 5319.03	N 5319.97
Start longitude	E 17250.56	E 17245.41	E 17233.45	E 17217.05	E 17209.010	E 17036.43	E 17043.28
End latitude	N 5236.51	N 5241.93	N 5248.43	N 5250.20	N 5256.92	N 5318.24	N 5319.22
End longitude	E 17251.50	E 17246.43	E 17234.15	E 17215.59	E 17209.71	E 17036.04	E 17043.14
Bottom depth (m)	212	145	147	357	401	340	379
Duration (minutes)	16.8	16.8	11.4	19.2	18.6	18.6	16.8
Distance fished (km)	1.401	1.475	1.04	1.655	1.559	1.569	1.429
Performance	0	0	0	0	0	0	0
Atka mackerel	0	0	0	0	0	0	0
Pacific cod	80	16	14	0	0	0	0
Walleye pollock	16	0	< 1	1	0	0	0
Pacific ocean perch	2835	0	50	0	0	369	0
Northern rockfish	2	0	55	0	0	0	0
Shortraker rockfish	0	0	0	18	10	0	49
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	2	0	5	2
Shortspine thornyhead	0	0	0	188	51	45	3
Dusky rockfish	1	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	< 1	< 1	< 1	< 1
Sablefish	0	0	0	0	0	0	3
Arrowtooth flounder	90	6	9	26	0	0	0
Pacific halibut	12	0	41	0	0	0	0
Northern rock sole	0	< 1	14	< 1	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	6	< 1	1	11	349	3	0
Greenland turbot	0	0	0	11	37	8	0
Flathead sole	3	0	2	< 1	0	0	0
Rex sole	0	0	< 1	20	< 1	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	14	34	0	0	0	< 1	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	2	2	0	0	0	0
Other sculpins	< 1	0	0	< 1	< 1	< 1	0
Eelpout unident.	0	0	0	< 1	< 1	0	0
Other fish	< 1	< 1	< 1	189	221	52	87
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	< 1	0	< 1
Northern shrimp	0	< 1	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	< 1	2	27	6
Sponges	6	< 1	< 1	< 1	19	103	265
Starfish	< 1	0	< 1	< 1	< 1	< 1	< 1
Soft coral	0	5	0	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	0	0	0	1	5
Snails	0	0	< 1	0	0	0	0
Other invertebrates	2	< 1	4	11	3	2	8
Total catch (kg)	3067	63	193	293	642	572	427

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	113	115	116	117	118	119	120
Start date & time	07/08/06 14	07/08/06 19	07/09/06 08	07/09/06 13	07/09/06 18	07/10/06 09	07/10/06 11
Start latitude	N 5317.59	N 5315.74	N 5309.19	N 5314.47	N 5305.28	N 5305.39	N 5304.28
Start longitude	E 17044.34	E 17050.13	E 17051.41	E 17054.04	E 17141.23	E 17243.24	E 17247.80
End latitude	N 5317.02	N 5316.02	N 5308.58	N 5314.17	N 5306.27	N 5304.82	N 5304.45
End longitude	E 17043.32	E 17049.23	E 17050.87	E 17054.77	E 17141.71	E 17242.32	E 17249.04
Bottom depth (m)	265	178	133	164	456	114	93
Duration (minutes)	19.8	13.2	14.4	12.6	24	16.8	16.8
Distance fished (km)	1.603	1.148	1.319	1.003	2.236	1.532	1.443
Performance	4.4	0	0	0	0	0	0
Atka mackerel	0	0	78	3	0	4	0
Pacific cod	0	0	0	0	0	458	120
Walleye pollock	12	< 1	17	25	0	1	< 1
Pacific ocean perch	7278	345	1248	560	0	3	0
Northern rockfish	6	587	3156	41	0	974	2
Shortraker rockfish	4	0	0	0	225	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	9	0	0	0	0	0	0
Shortspine thornyhead	28	1	0	40	14	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	< 1	0	< 1	< 1	0	0
Sablefish	0	0	0	0	37	0	0
Arrowtooth flounder	0	0	< 1	12	0	< 1	0
Pacific halibut	0	0	0	0	0	36	11
Northern rock sole	0	1	10	0	0	3	31
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	7	0	1	6	3	0	0
Greenland turbot	19	0	0	0	0	0	0
Flathead sole	0	0	< 1	3	0	0	0
Rex sole	12	0	4	2	0	0	0
Dover sole	8	< 1	3	5	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	4	114	20	3	8	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	< 1	0
Other sculpins	< 1	< 1	< 1	2	0	8	0
Eelpout unident.	0	0	0	0	3	0	0
Other fish	28	23	123	45	627	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	2	2	0	4	6	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	< 1	0	0
Magistrate armhook squid	21	0	0	0	0	0	0
Sponges	12	7	7	6	1210	< 1	< 1
Starfish	< 1	0	< 1	< 1	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	< 1
Stony coral unident.	0	0	< 1	0	122	0	0
Octopus	0	0	0	5	3	5	0
Snails	0	0	< 1	< 1	0	0	< 1
Other invertebrates	14	3	< 1	8	247	4	7
Total catch (kg)	7433	974	4764	749	2486	1506	172

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	121	122	123	124	125	126	127
Start date & time	07/10/06 13	07/11/06 08	07/11/06 12	07/11/06 17	07/11/06 19	07/12/06 09	07/12/06 11
Start latitude	N 5301.61	N 5229.16	N 5211.80	N 5231.56	N 5234.83	N 5209.56	N 5210.20
Start longitude	E 17312.76	E 17323.95	E 17333.14	E 17418.78	E 17418.78	E 17511.37	E 17515.61
End latitude	N 5301.89	N 5228.65	N 5211.62	N 5231.49	N 5235.48	N 5210.00	N 5210.06
End longitude	E 17311.57	E 17322.95	E 17333.95	E 17417.59	E 17419.54	E 17512.43	E 17514.53
Bottom depth (m)	133	168	234	108	97	218	236
Duration (minutes)	16.8	16.2	11.4	17.4	16.8	16.8	16.2
Distance fished (km)	1.46	1.513	0.997	1.38	1.533	1.499	1.301
Performance	0	0	4.4	0	0	0	2.1
Atka mackerel	1	0	0	0	< 1	14	6
Pacific cod	48	7	8	< 1	41	0	0
Walleye pollock	0	12	6	< 1	< 1	32	73
Pacific ocean perch	26	0	6216	0	9	272	1547
Northern rockfish	82	0	0	0	174	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	2
Shortspine thornyhead	0	0	4	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	< 1	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	31	33	13	< 1	0	1	10
Pacific halibut	0	29	0	0	8	0	0
Northern rock sole	30	33	28	17	30	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	3	25	1	< 1	0	1	3
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	9	32	< 1	11	7	2	0
Rex sole	17	0	0	8	0	< 1	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	11	< 1	0	0	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	< 1	0	0	3	0	0
Other sculpins	10	0	0	2	0	4	16
Eelpout unident.	0	2	0	0	0	0	0
Other fish	< 1	10	4	37	0	< 1	< 1
Bairdi Tanner crab	0	< 1	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	5	5
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	< 1	0	0
Magistrate armhook squid	0	0	0	0	0	0	< 1
Sponges	7	< 1	< 1	0	2	< 1	382
Starfish	0	< 1	< 1	< 1	< 1	< 1	1
Soft coral	0	0	0	0	50	0	< 1
Stony coral unident.	0	0	0	0	0	0	< 1
Octopus	0	0	0	0	0	0	2
Snails	0	0	< 1	0	0	0	< 1
Other invertebrates	< 1	5	< 1	65	2	3	6
Total catch (kg)	263	200	6279	143	328	335	2056

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	128	129	130	131	132	133	134
Start date & time	07/12/06 15	07/12/06 18	07/13/06 08	07/13/06 10	07/13/06 12	07/13/06 14	07/13/06 20
Start latitude	N 5213.62	N 5217.37	N 5223.77	N 5223.19	N 5222.04	N 5218.47	N 5216.78
Start longitude	E 17517.32	E 17520.58	E 17551.66	E 17556.00	E 17601.67	E 17548.43	E 17603.43
End latitude	N 5213.04	N 5217.03	N 5224.09	N 5223.39	N 5221.51	N 5219.24	N 5216.15
End longitude	E 17516.61	E 17521.77	E 17550.35	E 17554.79	E 17601.86	E 17547.66	E 17604.39
Bottom depth (m)	175	246	52	53	136	253	143
Duration (minutes)	17.4	17.4	18	16.8	12.6	19.2	19.2
Distance fished (km)	1.4	1.601	1.639	1.457	1.034	1.734	1.687
Performance	0	0	0	2.1	-3.13	3.13	0
Atka mackerel	55	0	92	102	16	1	64
Pacific cod	0	0	171	138	13	0	140
Walleye pollock	< 1	10	7	27	0	3	0
Pacific ocean perch	2072	406	0	0	20	3474	1936
Northern rockfish	< 1	0	5	0	46	< 1	7
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	< 1	4	0	0	0	2	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	7	56	1	0	0	8	0
Pacific halibut	0	34	13	19	1	0	0
Northern rock sole	0	0	13	61	40	0	20
Southern rock sole	0	0	0	< 1	0	0	0
Kamchatka flounder	0	111	0	0	0	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	< 1	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	29	< 1	11	0	15	28	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	14	< 1	0
Other sculpins	11	4	0	0	< 1	15	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	78	< 1	0	0	0	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	5	6	0	0	0	11	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	< 1	0	0	0	0	0	0
Sponges	61	384	0	0	< 1	24	19
Starfish	< 1	1	0	0	< 1	< 1	< 1
Soft coral	0	0	0	0	< 1	< 1	< 1
Stony coral unident.	4	0	0	0	0	< 1	< 1
Octopus	0	0	0	0	8	0	0
Snails	0	< 1	0	0	< 1	< 1	< 1
Other invertebrates	2	8	2	2	4	6	3
Total catch (kg)	2326	1026	316	350	179	3575	2190



Fishing Log: F/V *Gladiator*, Cruise 2006-01.

Haul number	135	136	137	138	139	140	141
Start date & time	07/14/06 09	07/14/06 13	07/14/06 16	07/14/06 17	07/14/06 20	07/15/06 09	07/15/06 13
Start latitude	N 5214.00	N 5214.09	N 5211.33	N 5210.65	N 5212.16	N 5138.67	N 5152.60
Start longitude	E 17556.45	E 17601.25	E 17609.41	E 17610.81	E 17612.65	E 17539.010	E 17553.44
End latitude	N 5214.50	N 5213.57	N 5211.33	N 5210.98	N 5211.95	N 5138.29	N 5152.19
End longitude	E 17555.50	E 17602.29	E 17609.55	E 17610.10	E 17613.42	E 17539.72	E 17554.02
Bottom depth (m)	281	163	118	117	98	182	118
Duration (minutes)	17.4	16.8	7.2	11.4	12	12	11.4
Distance fished (km)	1.467	1.563	0.583	1.047	1.023	1.031	1.042
Performance	0	5.8	-1.2	-2.4	1.12	1.11	1.11
Atka mackerel	0	475	273	7	2951	< 1	537
Pacific cod	0	372	11	0	100	0	0
Walleye pollock	5	4	0	0	0	3	2
Pacific ocean perch	3183	1454	1	6	0	2203	1236
Northern rockfish	0	18	168	36	3	26	3947
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	< 1	0
Shortspine thornyhead	2	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	11	0	0	0	0	7	0
Pacific halibut	0	10	0	0	0	0	0
Northern rock sole	0	0	0	0	0	< 1	3
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	14	0	0	0	0	< 1	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	2	0
Rex sole	0	0	0	0	0	6	0
Dover sole	0	0	0	0	0	3	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	14	6	< 1	0	0	0	8
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	14	0	< 1	0	< 1	23	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	2	46	5	0	2	42	18
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	3	6	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	2	0	0	0	0	0	0
Sponges	66	13	0	< 1	162	< 1	3
Starfish	< 1	< 1	0	0	< 1	< 1	< 1
Soft coral	< 1	< 1	0	0	< 1	0	0
Stony coral unident.	< 1	< 1	0	< 1	1	< 1	0
Octopus	0	0	0	0	0	< 1	0
Snails	< 1	< 1	0	0	0	0	< 1
Other invertebrates	3	3	2	< 1	9	< 1	3
Total catch (kg)	3318	2408	460	50	3230	2318	5756

Fishing Log: F/V *Gladiator*, Cruise 2006-01.

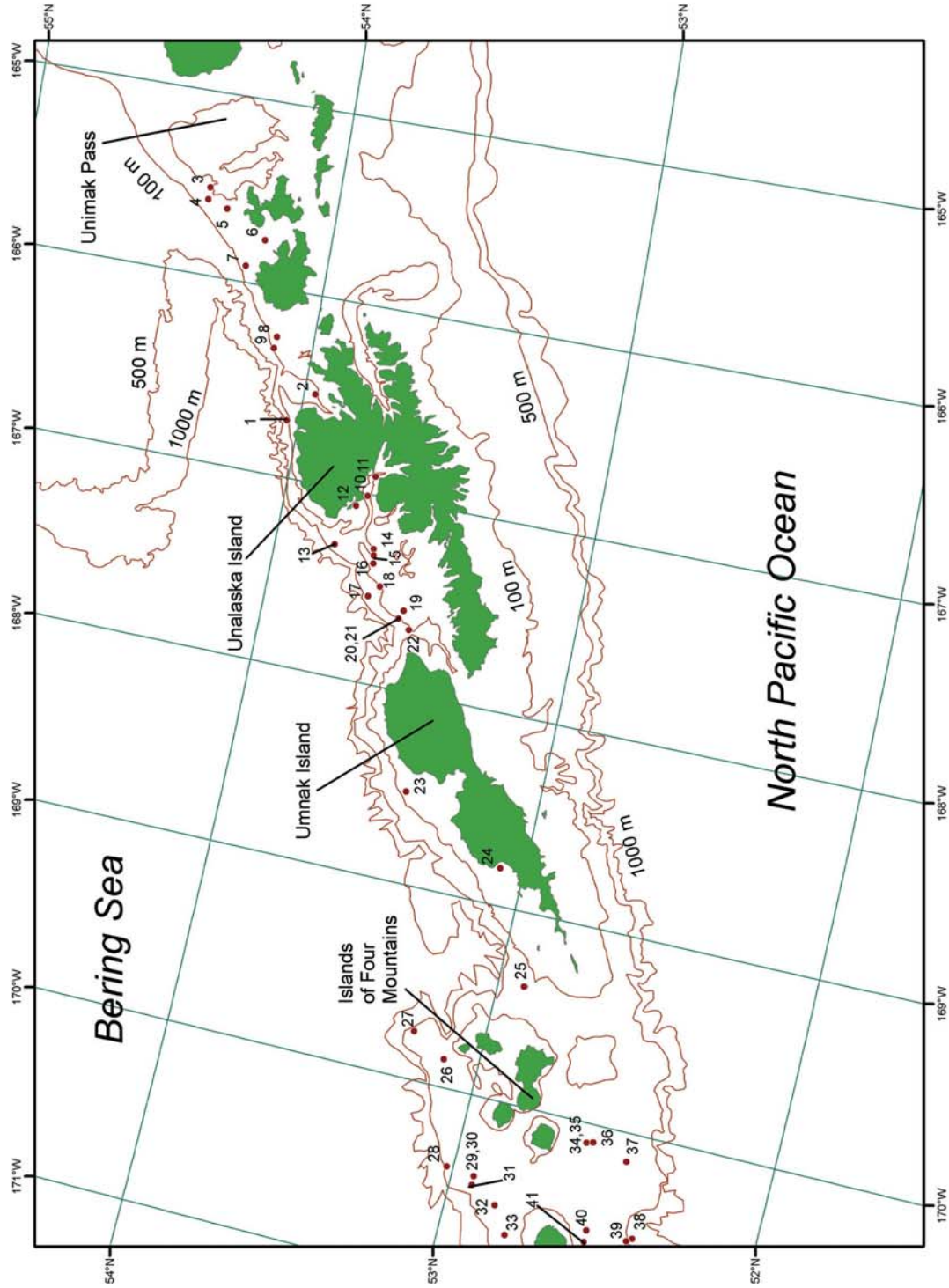
Haul number	142	143	144
Start date & time	07/15/06 17	07/15/06 19	07/15/06 21
Start latitude	N 5148.16	N 5158.82	N 5157.89
Start longitude	E 17554.32	E 17605.65	E 17601.93
End latitude	N 5149.08	N 5158.38	N 5157.61
End longitude	E 17554.43	E 17605.14	E 17601.24
Bottom depth (m)	92	89	72
Duration (minutes)	19.2	12.6	11.4
Distance fished (km)	1.772	1.038	0.973
Performance	1.11	0	0
Atka mackerel	529	533	38
Pacific cod	0	0	0
Walleye pollock	0	0	0
Pacific ocean perch	< 1	0	0
Northern rockfish	354	1639	561
Shortraker rockfish	0	0	0
Rougheye rockfish	0	0	0
Blackspotted rockfish	0	0	0
Shortspine thornyhead	0	0	0
Dusky rockfish	7	0	0
Dark rockfish	45	0	2
Other rockfish	0	0	0
Sablefish	0	0	0
Arrowtooth flounder	0	3	0
Pacific halibut	0	0	0
Northern rock sole	10	10	11
Southern rock sole	0	1	0
Kamchatka flounder	0	0	0
Greenland turbot	0	0	0
Flathead sole	0	0	0
Rex sole	13	25	0
Dover sole	1	0	0
English sole	0	0	0
Other flatfish	0	0	0
Skate unident.	0	0	0
Shark unident.	0	0	0
Yellow Irish lord	18	0	4
Other sculpins	< 1	0	0
Eelpout unident.	0	0	0
Other fish	1	0	8
Bairdi Tanner crab	0	0	0
Red king crab	0	0	0
Golden king crab	0	0	0
Northern shrimp	0	0	0
Sidestripe shrimp	0	0	0
Scallop unident.	0	0	0
Magistrate armhook squid	0	0	0
Sponges	108	0	< 1
Starfish	< 1	< 1	< 1
Soft coral	0	< 1	0
Stony coral unident.	< 1	< 1	< 1
Octopus	37	0	5
Snails	0	< 1	0
Other invertebrates	31	< 1	< 1
Total catch (kg)	1157	2214	631

**Section 2**

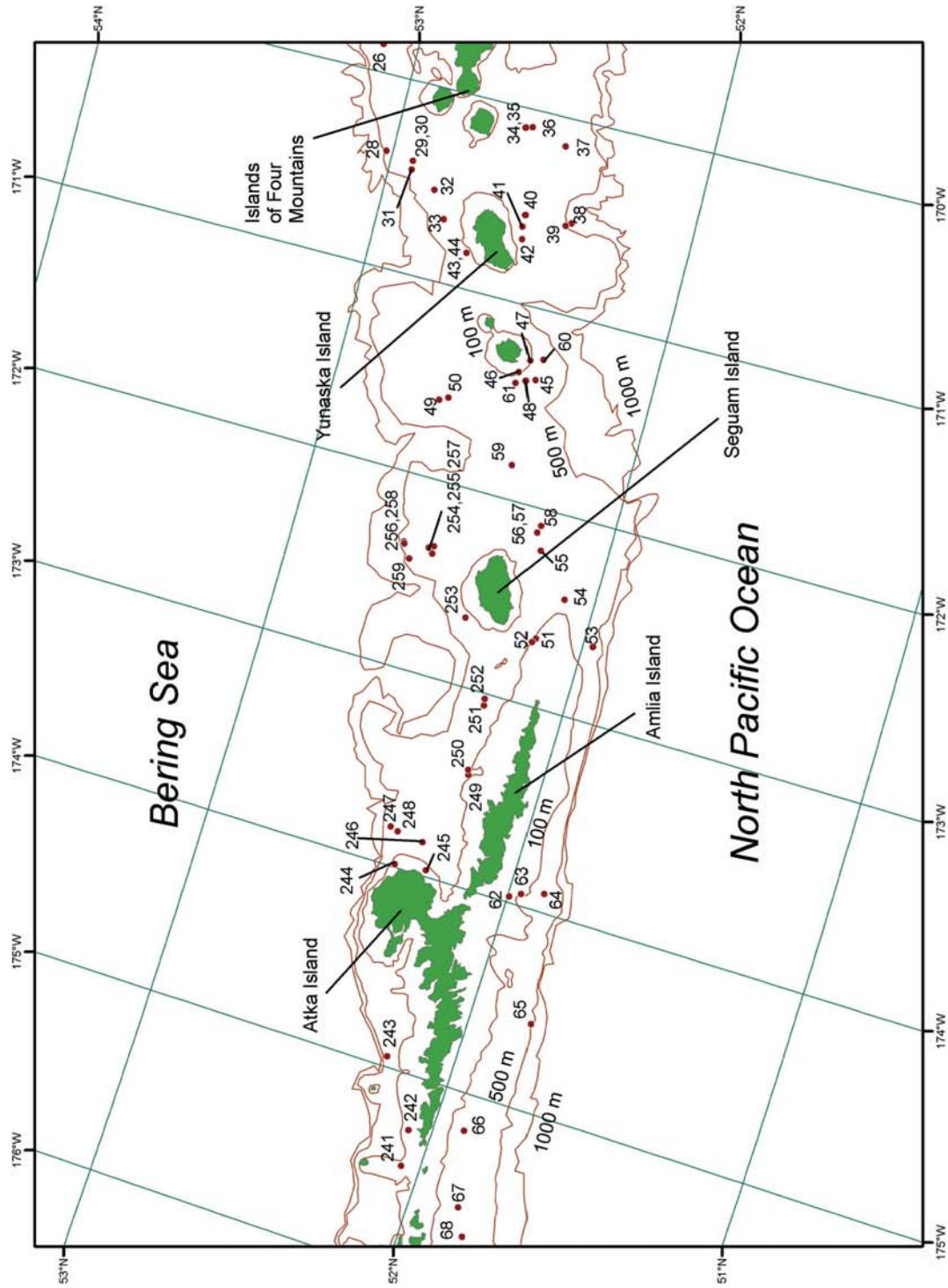
**Fishing Log for the F/V *Sea Storm***

- Charts of stations and haul numbers plotted by their respective geographical position

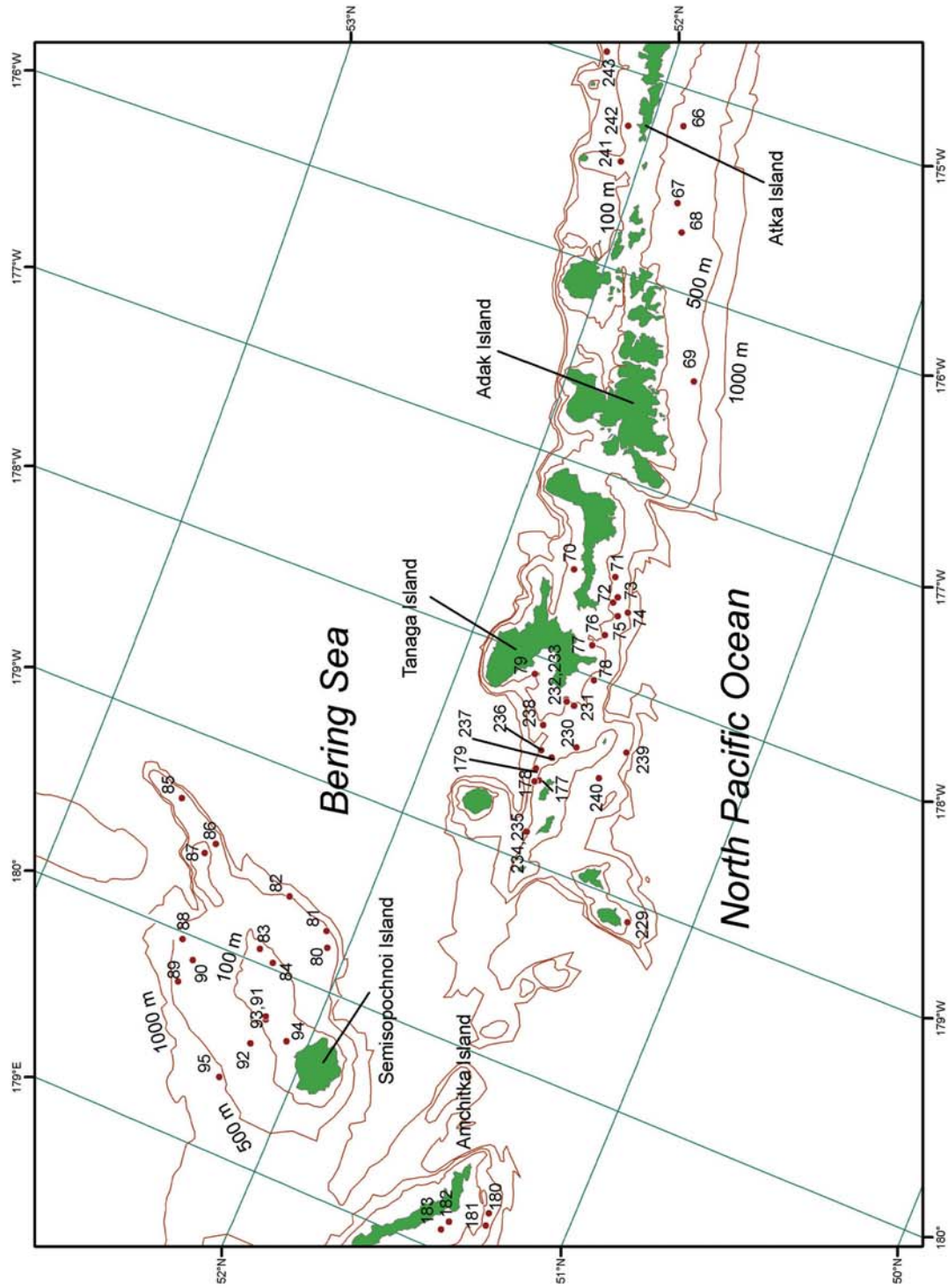




**Figure 7.** -- Stations surveyed by the chartered trawler *F/V Sea Storm* from Unimak Pass to the Islands of Four Mountains.



**Figure 8.** -- Stations surveyed by the chartered trawler F/V *Sea Storm* from the Islands of Four Mountains to Atka Island.



**Figure 9.** -- Stations surveyed by the chartered trawler *F/V Sea Storm* from Atka Island to Amchitka Island.

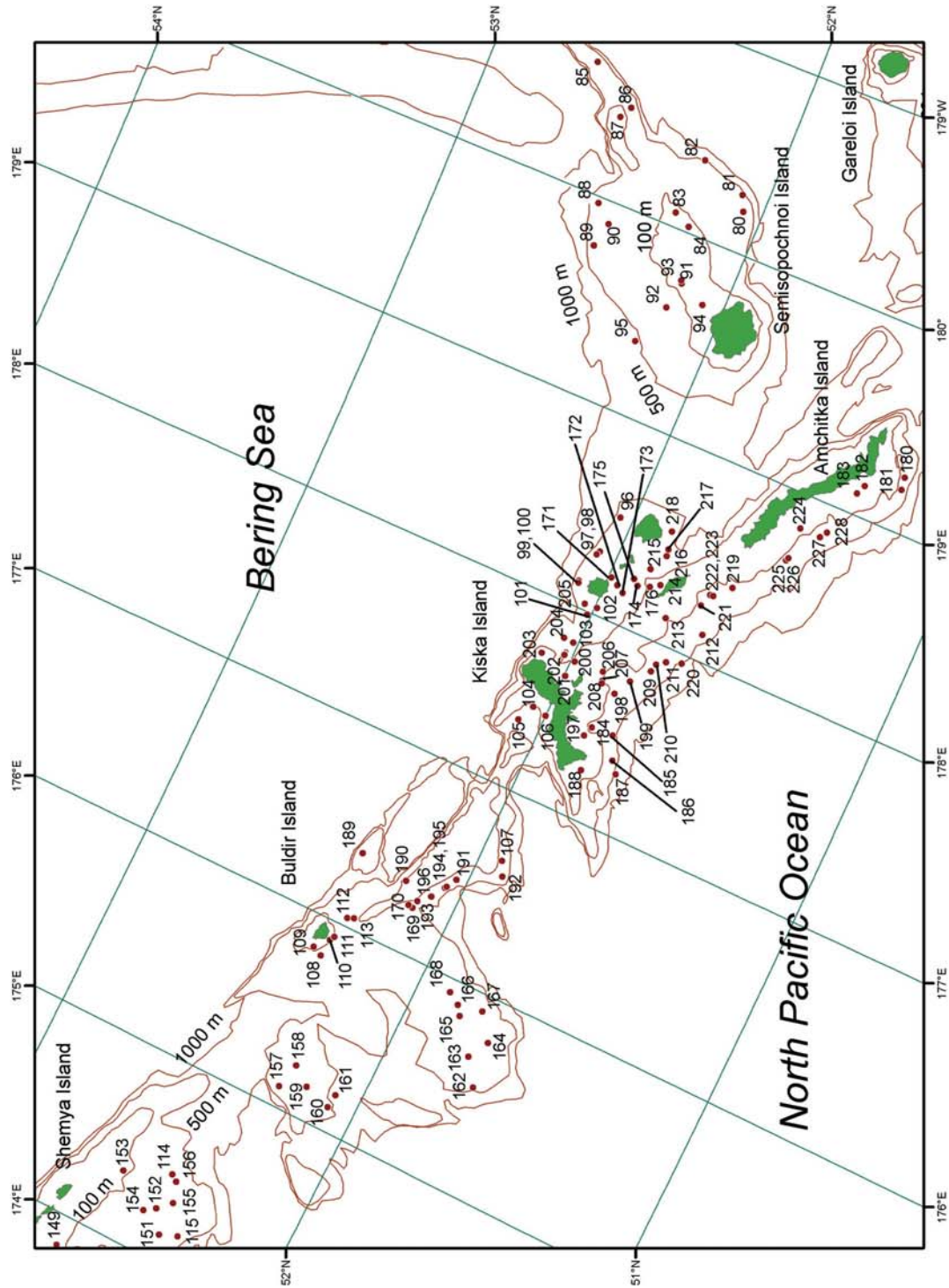


Figure 10. -- Stations surveyed by the chartered trawler F/V Sea Storm in the vicinity of Buldir Island.



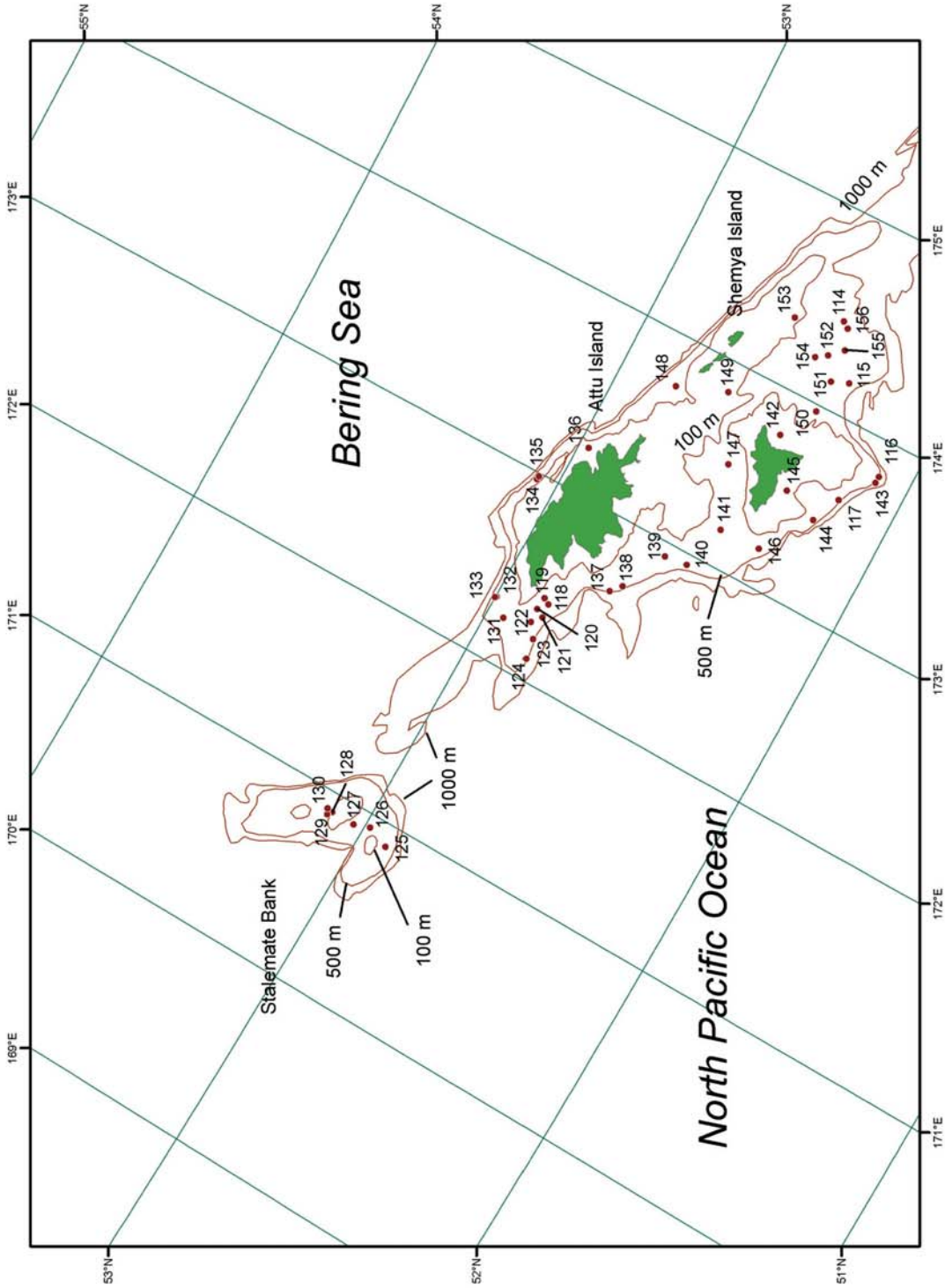


Figure 11. -- Stations surveyed by the chartered trawler F/V Sea Storm in the vicinity of Attu Island.



**Section 2 (continued)****Fishing Log for the F/V *Sea Storm***

- Summary listings of species catches by haul
- Haul start/end latitude and longitude in degrees, minutes, and decimal minutes
- Bottom depth in meters
- Duration of tow in minutes
- Distance fished in kilometers
- Performance
- Catch weight in kilograms of principal species
- Total catch weight in kilograms of all species



Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	1	2	3	4	5	6	7
Start date & time	06/06/06 12	06/06/06 16	06/07/06 07	06/07/06 12	06/07/06 16	06/08/06 07	06/08/06 09
Start latitude	N 5402.31	N 5357.82	N 5424.78	N 5424.81	N 5420.87	N 5412.70	N 5415.46
Start longitude	W 16641.50	W 16631.54	W 16531.31	W 16535.24	W 16537.29	W 16545.17	W 16554.59
End latitude	N 5402.29	N 5358.14	N 5424.65	N 5425.48	N 5420.86	N 5411.98	N 5415.22
End longitude	W 16640.06	W 16630.27	W 16529.92	W 16534.41	W 16538.59	W 16544.68	W 16555.82
Bottom depth (m)	87	143	91	95	85	92	90
Duration (minutes)	17.4	16.8	16.8	16.8	15.6	16.2	15.6
Distance fished (km)	1.579	1.529	1.547	1.55	1.408	1.473	1.425
Performance	0	0	0	3.2	1.11	0	0
Atka mackerel	805	0	178	1	15	0	4
Pacific cod	< 1	35	119	38	21	13	29
Walleye pollock	160	1729	1	9	7	252	42
Pacific ocean perch	0	0	< 1	2	< 1	0	0
Northern rockfish	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	9	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	< 1	0	0	< 1	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	37	258	17	13	11	52	115
Pacific halibut	22	33	53	12	35	24	26
Northern rock sole	14	0	40	25	38	< 1	8
Southern rock sole	21	0	5	0	8	1	28
Kamchatka flounder	0	1	0	0	0	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	18	99	3	0	4	21	6
Rex sole	14	220	< 1	0	0	6	< 1
Dover sole	0	0	0	0	0	0	0
English sole	0	4	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	32	17	0	53	6	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	< 1	0	107	37	42	< 1	2
Other sculpins	3	10	25	0	< 1	6	< 1
Eelpout unident.	0	< 1	0	0	0	0	0
Other fish	0	< 1	11	6	11	< 1	< 1
Bairdi Tanner crab	0	20	1	< 1	0	< 1	< 1
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	15	14	< 1	0	< 1
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	0	0	165	2	347	0	0
Starfish	0	2	7	6	4	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	< 1	0	0	21	0
Snails	0	2	27	26	4	2	1
Other invertebrates	2	5	105	190	22	2	5
Total catch (kg)	1130	2445	880	433	578	402	268

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	8	9	10	11	12	13	14
Start date & time	06/08/06 13	06/08/06 16	06/09/06 07	06/09/06 10	06/09/06 12	06/10/06 07	06/10/06 11
Start latitude	N 5407.13	N 5407.34	N 5344.29	N 5343.48	N 5346.12	N 5348.67	N 5341.18
Start longitude	W 16615.45	W 16619.31	W 16700.45	W 16653.93	W 16704.36	W 16717.89	W 16716.91
End latitude	N 5406.52	N 5406.58	N 5344.66	N 5343.32	N 5345.47	N 5349.14	N 5341.96
End longitude	W 16616.19	W 16619.13	W 16659.30	W 16652.64	W 16703.70	W 16717.11	W 16716.83
Bottom depth (m)	92	98	188	191	66	323	116
Duration (minutes)	15.6	15.6	16.2	16.2	15.6	13.8	16.2
Distance fished (km)	1.411	1.445	1.459	1.472	1.429	1.241	1.466
Performance	0	5.8	0	0	5.8	5.1	0
Atka mackerel	24	2	0	0	0	0	3
Pacific cod	0	1	2	18	3	48	33
Walleye pollock	0	1	30	19	0	25	2
Pacific ocean perch	0	0	0	0	0	16	0
Northern rockfish	0	0	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	44	0
Rougheye rockfish	0	0	1	15	0	14	0
Blackspotted rockfish	0	0	0	0	0	18	0
Shortspine thornyhead	0	0	0	0	0	6	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	< 1	0
Sablefish	0	0	< 1	0	0	1	0
Arrowtooth flounder	0	5	27	122	8	71	23
Pacific halibut	33	23	0	50	42	12	9
Northern rock sole	2	15	0	0	7	0	0
Southern rock sole	< 1	4	0	< 1	121	0	3
Kamchatka flounder	0	0	0	0	0	18	2
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	< 1	133	139	17	8	14
Rex sole	0	0	14	8	0	34	32
Dover sole	0	0	< 1	1	0	10	1
English sole	0	0	< 1	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	0	0	0	1	2
Shark unident.	0	0	0	13	0	0	0
Yellow Irish lord	31	7	0	0	0	0	0
Other sculpins	0	< 1	< 1	1	0	11	0
Eelpout unident.	0	0	< 1	< 1	0	< 1	0
Other fish	< 1	0	3	5	< 1	6	0
Bairdi Tanner crab	0	0	1	4	0	0	2
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	1	< 1	0	< 1	0
Sidestripe shrimp	0	0	< 1	< 1	0	< 1	0
Scallop unident.	< 1	0	0	0	< 1	< 1	0
Magistrate armhook squid	0	0	0	0	0	2	< 1
Sponges	< 1	0	0	0	0	13	< 1
Starfish	2	< 1	< 1	< 1	1	2	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	< 1
Octopus	0	0	0	0	0	0	0
Snails	< 1	< 1	0	0	0	< 1	< 1
Other invertebrates	10	< 1	1	2	< 1	1	17
Total catch (kg)	106	60	216	399	200	357	146

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	15	16	17	18	19	20	21
Start date & time	06/10/06 13	06/10/06 16	06/11/06 07	06/11/06 11	06/11/06 14	06/11/06 17	06/12/06 07
Start latitude	N 5340.97	N 5340.68	N 5340.43	N 5338.53	N 5333.11	N 5333.80	N 5333.83
Start longitude	W 16718.91	W 16721.53	W 16732.05	W 16728.36	W 16734.43	W 16737.30	W 16737.15
End latitude	N 5340.27	N 5339.98	N 5340.90	N 5339.12	N 5332.41	N 5334.22	N 5333.41
End longitude	W 16718.42	W 16721.73	W 16731.04	W 16727.59	W 16735.22	W 16736.28	W 16737.100
Bottom depth (m)	94	95	315	110	87	382	373
Duration (minutes)	15.6	15	15.6	15.6	16.8	15.6	15.6
Distance fished (km)	1.429	1.342	1.434	1.423	1.594	1.396	1.267
Performance	0	4.1	0	0	0	-5.8	5.8
Atka mackerel	1	389	0	14	8	0	0
Pacific cod	5	12	27	40	39	4	6
Walleye pollock	0	0	52	327	< 1	19	36
Pacific ocean perch	0	< 1	100	2	0	15	181
Northern rockfish	0	3	0	0	0	0	0
Shortraker rockfish	0	0	41	0	0	19	101
Rougheye rockfish	0	0	21	0	0	7	4
Blackspotted rockfish	0	0	3	0	0	7	18
Shortspine thornyhead	0	0	33	0	0	29	28
Dusky rockfish	0	1	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	< 1	0	0	< 1	< 1
Sablefish	0	0	0	0	0	4	10
Arrowtooth flounder	28	14	73	111	73	901	2023
Pacific halibut	31	103	13	4	12	76	111
Northern rock sole	10	9	0	58	11	0	0
Southern rock sole	60	68	0	39	46	0	0
Kamchatka flounder	< 1	0	6	2	< 1	4	0
Greenland turbot	0	0	0	0	0	10	18
Flathead sole	6	8	4	6	3	13	30
Rex sole	2	3	145	23	57	222	370
Dover sole	0	0	14	2	0	47	30
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	0	5	< 1	< 1	< 1	10
Shark unident.	0	0	0	0	0	45	0
Yellow Irish lord	0	1	0	0	0	0	0
Other sculpins	0	0	1	< 1	0	2	< 1
Eelpout unident.	0	0	0	0	0	< 1	< 1
Other fish	< 1	< 1	38	0	0	34	29
Bairdi Tanner crab	0	0	0	0	< 1	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	< 1	0	0	< 1	< 1
Sidestripe shrimp	0	0	< 1	0	0	< 1	< 1
Scallop unident.	< 1	< 1	0	< 1	0	0	0
Magistrate armhook squid	0	0	3	< 1	0	3	4
Sponges	< 1	25	< 1	< 1	< 1	0	0
Starfish	< 1	< 1	1	< 1	< 1	9	10
Soft coral	< 1	0	0	0	0	0	0
Stony coral unident.	< 1	4	0	0	0	0	0
Octopus	0	0	0	8	0	< 1	< 1
Snails	< 1	< 1	1	< 1	1	< 1	< 1
Other invertebrates	8	9	2	2	3	4	1
Total catch (kg)	152	650	551	640	255	1444	2995

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	22	23	24	25	26	27	28
Start date & time	06/12/06 09	06/12/06 15	06/12/06 18	06/13/06 07	06/13/06 11	06/13/06 13	06/13/06 19
Start latitude	N 5331.41	N 5325.43	N 5304.51	N 5254.98	N 5306.69	N 5313.54	N 5301.24
Start longitude	W 16740.09	W 16830.79	W 16848.08	W 16922.85	W 16951.03	W 16944.62	W 17023.78
End latitude	N 5331.44	N 5326.12	N 5303.78	N 5255.33	N 5306.21	N 5314.33	N 5301.73
End longitude	W 16741.38	W 16829.93	W 16848.71	W 16921.71	W 16949.96	W 16945.11	W 17022.79
Bottom depth (m)	106	86	32	398	325	341	305
Duration (minutes)	15.6	16.8	16.2	15.6	16.2	16.8	15.6
Distance fished (km)	1.435	1.626	1.56	1.452	1.512	1.581	1.459
Performance	0	0	0	0	0	0	1.1
Atka mackerel	6	2	0	1	0	0	< 1
Pacific cod	60	2	0	0	5	0	6
Walleye pollock	0	0	0	4	0	20	9
Pacific ocean perch	< 1	0	0	< 1	7	667	758
Northern rockfish	0	0	0	0	0	0	< 1
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	2	0	1	0
Blackspotted rockfish	0	0	0	3	0	8	2
Shortspine thornyhead	0	0	0	0	0	109	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	< 1	0
Sablefish	0	0	0	0	3	0	0
Arrowtooth flounder	312	5	0	1046	32	263	14
Pacific halibut	30	2	9	0	0	0	24
Northern rock sole	< 1	124	40	0	0	0	0
Southern rock sole	11	23	< 1	0	0	0	0
Kamchatka flounder	< 1	0	0	1473	16	10	1
Greenland turbot	0	0	0	39	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	90	0	0	9	3	10	< 1
Dover sole	< 1	0	0	0	0	2	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	3	16	0	60	8	0	5
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	< 1	< 1	0	0	0	0
Other sculpins	6	< 1	0	4	9	33	14
Eelpout unident.	0	0	0	0	< 1	0	0
Other fish	0	0	0	< 1	< 1	109	< 1
Bairdi Tanner crab	1	0	0	< 1	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	22	4	12	4
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	< 1	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	< 1	0	< 1	0
Sponges	< 1	15	< 1	2	5	31	72
Starfish	< 1	0	< 1	< 1	< 1	< 1	< 1
Soft coral	0	0	0	0	0	< 1	< 1
Stony coral unident.	0	0	0	0	0	< 1	< 1
Octopus	< 1	0	0	0	0	0	0
Snails	< 1	< 1	0	< 1	0	< 1	< 1
Other invertebrates	2	18	2	3	5	2	25
Total catch (kg)	524	208	53	2670	97	1170	937



Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	29	30	31	32	33	34	35
Start date & time	06/14/06 07	06/14/06 08	06/14/06 09	06/14/06 13	06/14/06 16	06/15/06 07	06/15/06 09
Start latitude	N 5255.73	N 5255.78	N 5255.65	N 5250.47	N 5247.26	N 5236.39	N 5236.35
Start longitude	W 17024.67	W 17024.76	W 17027.56	W 17032.02	W 17040.28	W 17005.92	W 17006.03
End latitude	N 5255.87	N 5256.45	N 5256.31	N 5249.70	N 5246.91	N 5236.16	N 5236.13
End longitude	W 17024.59	W 17024.19	W 17026.89	W 17032.47	W 17041.44	W 17007.07	W 17007.21
Bottom depth (m)	228	229	255	319	332	279	277
Duration (minutes)	10.2	15.6	15.6	15.6	15.6	15.6	15.6
Distance fished (km)	0.527	1.427	1.47	1.539	1.474	1.394	1.407
Performance	-1.12	0	0	1.11	0	-5.8	5.8
Atka mackerel	0	2	3	0	0	< 1	0
Pacific cod	11	111	18	0	7	0	0
Walleye pollock	0	6	2	9	5	13	5
Pacific ocean perch	4	27	1598	13	17	7	6
Northern rockfish	0	< 1	1	0	< 1	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	2	0	0	0	0	0
Blackspotted rockfish	0	0	1	3	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	2	14
Arrowtooth flounder	40	177	3925	2636	197	498	1721
Pacific halibut	0	86	5	0	33	0	7
Northern rock sole	0	0	0	0	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	14	239	22	5	13
Greenland turbot	0	0	0	10	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	42	30	12	22	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	< 1	< 1	0	0
Other sculpins	3	2	2	< 1	5	< 1	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	< 1	1	7	< 1	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	35	41	8	6	2	< 1	0
Starfish	< 1	< 1	< 1	< 1	< 1	< 1	0
Soft coral	4	0	0	< 1	0	0	0
Stony coral unident.	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Octopus	0	0	0	0	0	0	0
Snails	< 1	0	0	< 1	< 1	0	0
Other invertebrates	17	22	9	12	3	4	2
Total catch (kg)	116	520	5617	2949	315	531	1770

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	36	37	39	40	41	42	43
Start date & time	06/15/06 11	06/15/06 13	06/16/06 07	06/16/06 09	06/16/06 11	06/16/06 12	06/16/06 17
Start latitude	N 5235.010	N 5228.05	N 5224.36	N 5232.31	N 5232.24	N 5231.74	N 5241.42
Start longitude	W 17005.42	W 17008.78	W 17032.85	W 17032.61	W 17036.35	W 17040.19	W 17048.79
End latitude	N 5234.64	N 5228.79	N 5223.59	N 5231.75	N 5231.80	N 5231.59	N 5241.16
End longitude	W 17006.43	W 17008.77	W 17033.30	W 17033.55	W 17037.40	W 17041.42	W 17049.16
Bottom depth (m)	254	192	408	220	143	118	139
Duration (minutes)	15.6	15.6	16.2	15.6	15.6	15.6	9
Distance fished (km)	1.447	1.41	1.577	1.522	1.478	1.429	0.666
Performance	0	0	0	0	0	0	-1.12
Atka mackerel	0	0	< 1	11	4	0	0
Pacific cod	0	8	0	32	217	0	133
Walleye pollock	13	< 1	0	0	0	0	0
Pacific ocean perch	26	< 1	0	0	< 1	0	0
Northern rockfish	0	0	0	0	2	0	0
Shortraker rockfish	0	0	5	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	3	0	20	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	1	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	32	0	3	0	0	0	0
Arrowtooth flounder	1785	0	24	2	0	0	0
Pacific halibut	21	26	0	58	160	90	20
Northern rock sole	0	0	0	3	4	0	5
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	1	0	0	0	0	0	0
Greenland turbot	0	0	7	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	6	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	24	0	61	9	57	68	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	19	2	2
Other sculpins	0	< 1	0	0	< 1	0	0
Eelpout unident.	0	0	2	0	0	0	0
Other fish	< 1	< 1	391	< 1	< 1	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	3	0	0	0	0	0	0
Golden king crab	0	0	16	2	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	< 1	< 1	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	< 1	26	1	< 1	105	< 1	43
Starfish	0	< 1	< 1	< 1	1	2	< 1
Soft coral	0	< 1	0	0	< 1	0	< 1
Stony coral unident.	0	< 1	< 1	< 1	4	1	2
Octopus	0	< 1	0	0	0	0	0
Snails	0	< 1	< 1	< 1	< 1	< 1	< 1
Other invertebrates	3	9	7	1	15	7	5
Total catch (kg)	1916	71	539	118	591	171	210

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	44	45	46	47	48	49	50
Start date & time	06/16/06 17	06/17/06 07	06/17/06 10	06/17/06 16	06/17/06 18	06/18/06 08	06/18/06 10
Start latitude	N 5241.44	N 5222.48	N 5225.86	N 5224.42	N 5224.17	N 5239.26	N 5237.66
Start longitude	W 17048.65	W 17121.80	W 17120.62	W 17116.31	W 17122.81	W 17135.46	W 17134.14
End latitude	N 5240.88	N 5222.15	N 5226.52	N 5224.41	N 5223.63	N 5238.60	N 5236.99
End longitude	W 17049.37	W 17120.71	W 17120.82	W 17117.57	W 17121.96	W 17134.90	W 17133.65
Bottom depth (m)	136	325	94	91	238	468	462
Duration (minutes)	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Distance fished (km)	1.356	1.407	1.306	1.46	1.434	1.438	1.395
Performance	1.11	5.8	1.11	0	0	0	0
Atka mackerel	0	0	4163	3738	3	0	0
Pacific cod	150	0	13	0	22	0	0
Walleye pollock	0	0	0	0	3	2	2
Pacific ocean perch	0	7	6	0	58	< 1	< 1
Northern rockfish	0	0	192	98	2	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	1
Blackspotted rockfish	0	4	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	8	0	2	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	3
Arrowtooth flounder	0	3	0	0	< 1	5	0
Pacific halibut	34	0	24	35	25	8	0
Northern rock sole	0	0	0	0	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	0	0	7	5
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	51	0	38	46	8	1	2
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	4	0	26	38	7	0	0
Other sculpins	< 1	22	1	0	7	0	0
Eelpout unident.	0	0	0	0	0	< 1	< 1
Other fish	0	< 1	< 1	1	0	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	5	3	8
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	< 1	< 1	0	0	0
Magistrate armhook squid	0	0	0	0	0	< 1	0
Sponges	22	30	812	253	140	2	< 1
Starfish	< 1	< 1	2	2	1	< 1	< 1
Soft coral	< 1	0	< 1	0	< 1	< 1	0
Stony coral unident.	2	1	14	16	6	3	2
Octopus	0	0	18	0	0	0	0
Snails	< 1	< 1	< 1	< 1	< 1	0	0
Other invertebrates	9	18	8	18	9	17	15
Total catch (kg)	273	86	5324	4246	299	51	39

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	51	52	53	54	55	56	57
Start date & time	06/19/06 14	06/19/06 16	06/19/06 19	06/20/06 08	06/20/06 12	06/20/06 15	06/20/06 18
Start latitude	N 5209.08	N 5209.61	N 5158.08	N 5205.83	N 5212.78	N 5214.30	N 5214.40
Start longitude	W 17239.20	W 17240.58	W 17236.84	W 17225.16	W 17212.63	W 17207.48	W 17207.45
End latitude	N 5209.26	N 5209.20	N 5157.90	N 5205.41	N 5213.25	N 5215.07	N 5214.79
End longitude	W 17239.41	W 17239.55	W 17238.00	W 17226.21	W 17213.40	W 17207.16	W 17207.010
Bottom depth (m)	148	154	211	162	358	364	362
Duration (minutes)	15.6	15.6	15	15.6	13.8	16.2	21.6
Distance fished (km)	1.179	1.428	1.392	1.468	1.259	1.5	1.649
Performance	-1.2	0	0	0	0	-4.1	-2.4
Atka mackerel	0	0	< 1	2944	0	0	0
Pacific cod	8	80	21	150	0	2	0
Walleye pollock	0	3	89	3	63	13	9
Pacific ocean perch	0	0	785	2	< 1	0	0
Northern rockfish	0	0	7	< 1	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	2	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	1	2	3
Arrowtooth flounder	0	2	37	0	18	7	0
Pacific halibut	7	24	7	32	92	26	38
Northern rock sole	17	33	0	42	20	4	3
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	2	0	13	3	8
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	< 1	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	20	112	61	86	126	112	107
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	16	17	8	65	0	0	0
Other sculpins	0	< 1	6	2	2	10	9
Eelpout unident.	0	0	0	0	2	< 1	< 1
Other fish	2	1	< 1	< 1	0	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	< 1	< 1	0	0	3	< 1	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	0	0	< 1	0
Sponges	55	121	65	252	29	100	97
Starfish	1	2	< 1	2	< 1	< 1	< 1
Soft coral	< 1	< 1	0	< 1	2	5	3
Stony coral unident.	1	2	< 1	7	2	2	2
Octopus	0	< 1	0	< 1	0	0	0
Snails	< 1	< 1	< 1	< 1	0	< 1	< 1
Other invertebrates	5	20	11	20	8	18	17
Total catch (kg)	133	417	1101	3609	384	305	297

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	58	59	60	61	62	63	64
Start date & time	06/21/06 08	06/21/06 11	06/21/06 15	06/21/06 18	06/22/06 08	06/22/06 10	06/22/06 11
Start latitude	N 5214.01	N 5222.45	N 5221.94	N 5225.97	N 5159.67	N 5157.64	N 5153.39
Start longitude	W 17205.18	W 17149.22	W 17114.98	W 17124.18	W 17357.98	W 17356.22	W 17354.17
End latitude	N 5213.68	N 5222.41	N 5222.21	N 5226.79	N 5159.25	N 5158.22	N 5153.37
End longitude	W 17205.23	W 17149.18	W 17113.79	W 17124.39	W 17356.98	W 17355.40	W 17355.41
Bottom depth (m)	337	274	321	251	95	99	146
Duration (minutes)	13.8	0.6	15.6	15.6	15	15.6	15.6
Distance fished (km)	1.077	0.082	1.457	1.576	1.411	1.475	1.434
Performance	-1.12	-6	0	1.11	0	0	0
Atka mackerel	0	< 1	0	3	88	2	0
Pacific cod	5	0	0	5	< 1	0	21
Walleye pollock	6	435	52	1	0	0	0
Pacific ocean perch	0	10	28	85	0	0	61
Northern rockfish	0	0	0	2	56	72	12
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	1	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	4	0	4	0	0	0	74
Pacific halibut	26	0	10	6	20	10	14
Northern rock sole	3	0	0	0	65	58	18
Southern rock sole	0	0	0	0	14	9	2
Kamchatka flounder	3	0	3	0	0	0	< 1
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	< 1	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	48	0	55	117	0	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	30	36	< 1	9
Other sculpins	11	0	13	12	6	0	0
Eelpout unident.	< 1	0	0	0	0	0	0
Other fish	< 1	0	< 1	< 1	0	0	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	< 1	0	0	4	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	< 1	< 1	0
Magistrate armhook squid	0	< 1	3	< 1	0	0	0
Sponges	19	< 1	9	233	31	< 1	< 1
Starfish	< 1	< 1	< 1	1	< 1	< 1	< 1
Soft coral	< 1	< 1	< 1	0	< 1	0	0
Stony coral unident.	< 1	< 1	< 1	1	2	< 1	1
Octopus	0	0	0	0	0	0	0
Snails	< 1	0	0	< 1	< 1	0	< 1
Other invertebrates	17	4	16	10	24	6	4
Total catch (kg)	144	450	193	514	346	158	217

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	65	66	67	68	69	70	71
Start date & time	06/22/06 18	06/23/06 08	06/23/06 10	06/23/06 12	06/23/06 16	06/26/06 08	06/26/06 12
Start latitude	N 5148.36	N 5154.19	N 5150.60	N 5148.04	N 5136.45	N 5145.95	N 5137.98
Start longitude	W 17433.64	W 17511.12	W 17534.18	W 17542.32	W 17624.38	W 17731.03	W 17728.86
End latitude	N 5148.22	N 5154.17	N 5150.59	N 5147.97	N 5136.25	N 5146.26	N 5138.06
End longitude	W 17434.88	W 17512.31	W 17535.41	W 17543.56	W 17625.58	W 17729.86	W 17728.59
Bottom depth (m)	322	141	157	179	228	82	130
Duration (minutes)	15.6	15	15.6	15.6	15.6	15.6	5.4
Distance fished (km)	1.469	1.366	1.423	1.437	1.448	1.494	0.41
Performance	0	0	0	0	0	0	-1.2
Atka mackerel	< 1	0	0	< 1	0	4	29
Pacific cod	6	18	0	36	42	0	2
Walleye pollock	5	< 1	0	5	10	0	< 1
Pacific ocean perch	267	0	0	236	656	< 1	< 1
Northern rockfish	0	< 1	0	< 1	4	< 1	< 1
Shortraker rockfish	15	0	0	0	10	0	0
Rougheye rockfish	1	0	0	0	0	0	0
Blackspotted rockfish	26	0	0	0	18	0	0
Shortspine thornyhead	65	< 1	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	1
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	< 1	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	19	8	6	4	21	< 1
Pacific halibut	0	0	6	0	0	43	0
Northern rock sole	0	2	28	0	0	38	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	< 1	1	< 1	3	< 1	6	< 1
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	14	< 1	0	0	0
Rex sole	25	0	< 1	0	0	0	0
Dover sole	3	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	12	0	0	6	< 1	8	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	14	0	11	0	< 1	1
Other sculpins	11	< 1	0	< 1	4	8	0
Eelpout unident.	0	0	0	0	0	0	< 1
Other fish	65	< 1	< 1	1	5	< 1	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	< 1	< 1	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	< 1	0	0	0	2	< 1
Magistrate armhook squid	0	0	0	0	2	0	0
Sponges	21	1	< 1	< 1	22	< 1	7
Starfish	< 1	< 1	< 1	< 1	< 1	< 1	0
Soft coral	< 1	0	0	< 1	0	0	0
Stony coral unident.	< 1	0	< 1	< 1	< 1	0	0
Octopus	3	0	0	0	0	0	0
Snails	0	< 1	0	0	0	< 1	0
Other invertebrates	7	10	1	3	25	2	< 1
Total catch (kg)	468	68	58	311	803	133	45

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	72	73	74	75	76	77	78
Start date & time	06/26/06 14	06/26/06 16	06/26/06 18	06/27/06 08	06/27/06 10	06/27/06 11	06/27/06 13
Start latitude	N 5136.59	N 5136.13	N 5133.31	N 5134.90	N 5135.93	N 5137.54	N 5134.81
Start longitude	W 17736.45	W 17734.47	W 17737.78	W 17739.84	W 17746.61	W 17750.92	W 17800.77
End latitude	N 5136.96	N 5135.96	N 5133.62	N 5135.31	N 5136.22	N 5136.80	N 5134.54
End longitude	W 17735.38	W 17735.74	W 17736.67	W 17738.77	W 17745.47	W 17751.39	W 17759.57
Bottom depth (m)	130	238	383	170	114	90	128
Duration (minutes)	16.2	16.2	15.6	15.6	15.6	16.2	16.2
Distance fished (km)	1.445	1.514	1.442	1.48	1.458	1.537	1.507
Performance	0	0	0	0	0	0	0
Atka mackerel	37	9	0	0	< 1	0	2336
Pacific cod	78	2	0	36	3	5	101
Walleye pollock	< 1	4	0	7	6	< 1	0
Pacific ocean perch	0	80	< 1	230	2	0	0
Northern rockfish	20	< 1	0	2	0	< 1	0
Shortraker rockfish	0	0	72	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	6	0	0	0	0
Shortspine thornyhead	0	28	17	0	0	0	0
Dusky rockfish	1	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	< 1	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	13	20	29	15	14	< 1	< 1
Pacific halibut	18	0	0	11	4	22	28
Northern rock sole	24	9	0	2	92	57	14
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	2	< 1	0	6	< 1	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	4	0	0	0	0	0
Rex sole	0	5	9	0	< 1	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	13	3	4	0	2	49
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	21	0	0	13	10	3	5
Other sculpins	0	2	< 1	8	0	< 1	0
Eelpout unident.	0	0	< 1	0	0	0	0
Other fish	< 1	28	46	< 1	< 1	0	3
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	< 1	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	< 1	1	< 1	< 1
Magistrate armhook squid	0	0	< 1	0	0	0	0
Sponges	3	< 1	4	10	< 1	< 1	0
Starfish	< 1	< 1	< 1	< 1	0	< 1	< 1
Soft coral	0	< 1	< 1	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	0	34	1	6	0
Snails	0	< 1	0	< 1	< 1	< 1	< 1
Other invertebrates	3	< 1	4	5	3	2	< 1
Total catch (kg)	219	178	174	384	139	98	2538

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	79	80	81	82	83	84	85
Start date & time	06/27/06 18	06/28/06 08	06/28/06 10	06/28/06 13	06/28/06 15	06/28/06 18	06/29/06 08
Start latitude	N 5145.93	N 5203.69	N 5205.01	N 5214.19	N 5215.65	N 5212.28	N 5240.46
Start longitude	W 17805.32	W 17947.41	W 17942.64	W 17937.06	W 17955.59	W 17958.14	W 17921.13
End latitude	N 5146.56	N 5203.11	N 5204.35	N 5214.95	N 5216.34	N 5213.13	N 5239.76
End longitude	W 17806.09	W 17948.31	W 17943.24	W 17936.85	W 17955.01	W 17958.19	W 17921.69
Bottom depth (m)	133	253	387	432	87	93	147
Duration (minutes)	15.6	16.2	15	15.6	16.2	16.8	15.6
Distance fished (km)	1.504	1.523	1.456	1.464	1.492	1.587	1.503
Performance	0	0	5.41	0	0	0	0
Atka mackerel	0	0	0	0	31	1	1486
Pacific cod	0	0	0	0	6	17	2
Walleye pollock	0	30	0	0	150	1	112
Pacific ocean perch	0	510	6	2	0	0	1057
Northern rockfish	0	0	0	0	0	0	118
Shortraker rockfish	0	0	11	16	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	9	10	0	0	0
Shortspine thornyhead	0	12	61	33	0	0	0
Dusky rockfish	0	0	0	0	0	0	9
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	< 1	< 1	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	13	12	5	5	0	0	0
Pacific halibut	20	0	0	0	48	0	0
Northern rock sole	34	0	0	0	77	893	1
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	1	6	2	7	0	0	0
Greenland turbot	0	0	28	14	0	0	15
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	31	4	0	0	0	0
Dover sole	0	2	62	0	0	5	2
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	2	29	24	0	0	< 1	42
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	< 1	0	0	0	60	14	0
Other sculpins	0	26	0	0	9	14	7
Eelpout unident.	0	0	< 1	< 1	< 1	0	0
Other fish	0	12	81	210	3	0	26
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	4
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	< 1	0	0
Magistrate armhook squid	0	4	2	< 1	0	0	0
Sponges	< 1	3	3	< 1	842	7	43
Starfish	< 1	< 1	< 1	< 1	2	1	1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	0	2	1	< 1
Octopus	0	< 1	0	0	< 1	0	0
Snails	0	< 1	0	0	< 1	< 1	< 1
Other invertebrates	4	< 1	1	3	28	2	7
Total catch (kg)	76	666	240	269	1259	955	2932



Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	86	87	88	89	90	91	92
Start date & time	06/29/06 11	06/29/06 14	06/29/06 18	06/30/06 08	06/30/06 10	06/30/06 13	06/30/06 16
Start latitude	N 5231.15	N 5232.47	N 5230.09	N 5227.79	N 5226.75	N 5209.36	N 5210.35
Start longitude	W 17930.55	W 17934.45	E 17958.04	E 17945.19	E 17953.12	E 17944.80	E 17936.17
End latitude	N 5230.72	N 5232.20	N 5230.18	N 5228.15	N 5226.36	N 5209.98	N 5210.92
End longitude	W 17931.65	W 17935.64	E 17959.34	E 17946.37	E 17951.98	E 17945.62	E 17937.07
Bottom depth (m)	142	94	278	282	175	89	134
Duration (minutes)	16.8	16.2	16.2	16.2	16.2	16.8	15.6
Distance fished (km)	1.519	1.456	1.495	1.516	1.513	1.545	1.502
Performance	0	0	0	1.11	0	-2.1	0
Atka mackerel	881	2860	< 1	0	2	5	< 1
Pacific cod	15	23	0	0	0	2	0
Walleye pollock	4	< 1	2	2	0	0	< 1
Pacific ocean perch	6	< 1	348	238	25	4	0
Northern rockfish	0	2232	0	0	0	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	5	0	0	0
Shortspine thornyhead	0	0	34	51	< 1	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	< 1	< 1	< 1	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	2	< 1	9	0	0
Pacific halibut	0	0	0	0	0	5	0
Northern rock sole	0	1	0	0	0	15	10
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	11	0	2	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	38	< 1	< 1	0	0
Dover sole	0	0	10	0	< 1	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	74	30	4	2	21	26	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	4	0	0	0	22	6
Other sculpins	10	31	5	4	2	< 1	< 1
Eelpout unident.	0	0	< 1	0	0	0	0
Other fish	3	27	34	53	< 1	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	20	< 1	3	1	0	< 1	0
Northern shrimp	0	0	0	0	< 1	< 1	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	< 1	< 1	< 1
Magistrate armhook squid	0	0	5	2	< 1	0	0
Sponges	307	36	4	17	2	373	1
Starfish	7	2	< 1	< 1	< 1	< 1	2
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	< 1	7	2	< 1	0	< 1	< 1
Octopus	< 1	0	0	1	2	0	0
Snails	< 1	1	0	0	0	< 1	0
Other invertebrates	37	4	3	4	4	8	2
Total catch (kg)	1364	5260	472	331	72	462	24

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	93	94	95	96	97	98	99
Start date & time	06/30/06 18	07/01/06 08	07/01/06 10	07/01/06 15	07/01/06 17	07/02/06 08	07/02/06 11
Start latitude	N 5209.62	N 5204.11	N 5213.33	N 5202.46	N 5203.44	N 5203.79	N 5204.87
Start longitude	E 17945.66	E 17941.11	E 17922.78	E 17830.82	E 17818.58	E 17817.42	E 17807.78
End latitude	N 5208.89	N 5204.03	N 5212.57	N 5202.47	N 5202.91	N 5203.98	N 5204.84
End longitude	E 17945.61	E 17939.78	E 17922.47	E 17829.62	E 17819.55	E 17816.18	E 17807.48
Bottom depth (m)	85	73	402	382	347	340	437
Duration (minutes)	15.6	16.2	15.6	15	16.2	16.2	4.2
Distance fished (km)	1.356	1.545	1.513	1.4	1.551	1.509	0.349
Performance	5.8	0	0	0	0	5.8	-5.1
Atka mackerel	130	322	0	0	0	0	< 1
Pacific cod	4	8	0	0	0	0	0
Walleye pollock	0	0	0	2	26	2	0
Pacific ocean perch	0	0	0	1	4	< 1	0
Northern rockfish	0	0	0	< 1	0	0	0
Shortraker rockfish	0	0	23	3	38	21	0
Rougheye rockfish	0	0	0	3	36	0	0
Blackspotted rockfish	0	0	0	20	429	133	0
Shortspine thornyhead	0	0	23	27	9	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	< 1	< 1	< 1	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	0	7	62	12	0
Pacific halibut	0	104	0	0	0	0	0
Northern rock sole	19	42	0	0	< 1	< 1	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	74	33	38	15	9
Greenland turbot	0	0	3	0	6	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	2	2	4	2	0
Dover sole	0	0	0	3	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	10	0	11	3	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	28	95	0	0	0	0	0
Other sculpins	2	3	0	2	< 1	< 1	< 1
Eelpout unident.	0	0	2	< 1	< 1	< 1	< 1
Other fish	< 1	< 1	117	28	12	135	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	4	< 1	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	3	1	< 1	0
Sponges	243	330	2	< 1	3	< 1	0
Starfish	0	< 1	< 1	< 1	< 1	< 1	0
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	< 1	< 1	< 1	< 1	< 1	< 1	0
Octopus	0	0	0	0	0	0	0
Snails	0	< 1	0	0	< 1	0	0
Other invertebrates	3	4	2	4	12	7	6
Total catch (kg)	430	909	238	114	687	335	15

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	100	101	102	103	104	105	106
Start date & time	07/02/06 12	07/02/06 14	07/02/06 16	07/02/06 18	07/04/06 09	07/04/06 11	07/04/06 14
Start latitude	N 5204.80	N 5200.76	N 5159.51	N 5201.01	N 5202.87	N 5204.39	N 5159.97
Start longitude	E 17807.07	E 17759.21	E 17802.33	E 17749.57	E 17726.41	E 17721.05	E 17725.45
End latitude	N 5204.90	N 5200.16	N 5200.09	N 5200.23	N 5202.35	N 5204.85	N 5159.62
End longitude	E 17808.41	E 17758.45	E 17801.48	E 17749.78	E 17725.43	E 17720.07	E 17724.26
Bottom depth (m)	458	328	231	113	123	162	87
Duration (minutes)	17.4	15.6	15.6	15.6	16.2	15.6	16.2
Distance fished (km)	1.566	1.467	1.492	1.492	1.506	1.451	1.535
Performance	6.1	0	0	0	0	0	0
Atka mackerel	0	0	0	143	7	3	1805
Pacific cod	0	0	8	72	26	20	16
Walleye pollock	2	1	2	2	4	< 1	0
Pacific ocean perch	0	26	438	1	0	< 1	0
Northern rockfish	0	< 1	5	226	19	2	7
Shortraker rockfish	52	0	0	0	0	0	0
Rougheye rockfish	0	7	0	0	0	0	0
Blackspotted rockfish	10	94	1	0	0	0	0
Shortspine thornyhead	25	2	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	< 1	0	0	0	0	0
Sablefish	8	0	0	0	0	0	0
Arrowtooth flounder	3	3	4	0	< 1	14	3
Pacific halibut	0	0	0	4	0	31	6
Northern rock sole	0	< 1	4	29	9	7	158
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	133	25	< 1	< 1	< 1	1	< 1
Greenland turbot	86	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	20	0	0	0	0	0
Dover sole	1	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	42	14	0	0	27	14	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	5	15	4	< 1
Other sculpins	0	< 1	2	0	9	4	16
Eelpout unident.	< 1	3	0	0	0	0	0
Other fish	446	2	< 1	< 1	4	4	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	< 1	0	0	0	0	0
Northern shrimp	0	< 1	< 1	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	< 1	1	1	< 1	< 1
Magistrate armhook squid	0	0	0	< 1	< 1	0	0
Sponges	< 1	< 1	< 1	5	2	1	< 1
Starfish	0	0	< 1	< 1	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	< 1	0	< 1	< 1
Octopus	0	0	0	6	3	0	0
Snails	< 1	0	0	< 1	< 1	0	< 1
Other invertebrates	11	1	< 1	4	3	1	3
Total catch (kg)	797	198	466	501	131	107	2015

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	107	108	109	110	111	112	113
Start date & time	07/04/06 18	07/05/06 08	07/05/06 11	07/05/06 12	07/05/06 16	07/05/06 17	07/05/06 19
Start latitude	N 5155.72	N 5219.30	N 5221.24	N 5218.99	N 5218.47	N 5217.86	N 5216.65
Start longitude	E 17639.37	E 17548.58	E 17550.02	E 17554.14	E 17555.66	E 17602.72	E 17603.50
End latitude	N 5155.66	N 5220.05	N 5222.03	N 5219.18	N 5218.47	N 5217.15	N 5216.19
End longitude	E 17638.15	E 17548.40	E 17549.66	E 17553.32	E 17555.69	E 17603.14	E 17604.51
Bottom depth (m)	176	223	85	96	123	147	140
Duration (minutes)	16.2	15.6	16.2	12	0.6	15.6	16.2
Distance fished (km)	1.417	1.43	1.558	1.033	0.03	1.454	1.464
Performance	0	0	0	2.5	-1.2	0	0
Atka mackerel	1	< 1	520	3470	5	483	80
Pacific cod	0	4	67	22	0	63	180
Walleye pollock	5	4	0	0	0	0	0
Pacific ocean perch	163	1075	0	0	< 1	80	52
Northern rockfish	20	6	20	< 1	27	20	38
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	8	0	0	0	0	0
Shortspine thornyhead	1	0	0	0	2	0	0
Dusky rockfish	1	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	< 1	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	2	0	0	0	0	0	0
Pacific halibut	0	0	11	0	0	0	0
Northern rock sole	0	0	114	81	0	4	14
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	0	0	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	26	0	< 1	< 1	0	52	40
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	1	0	0	0	0
Other sculpins	15	76	< 1	< 1	0	2	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	5	< 1	4	0	6	2	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	< 1	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	0	< 1	< 1
Magistrate armhook squid	< 1	0	0	0	0	0	0
Sponges	25	85	4	< 1	20	63	54
Starfish	3	1	< 1	< 1	< 1	2	2
Soft coral	0	0	0	0	< 1	< 1	< 1
Stony coral unident.	< 1	4	< 1	< 1	< 1	2	6
Octopus	0	1	0	0	0	9	0
Snails	< 1	< 1	0	0	0	< 1	< 1
Other invertebrates	5	10	3	2	1	11	5
Total catch (kg)	272	1276	745	3576	60	793	474

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	114	115	116	117	118	119	120
Start date & time	07/06/06 08	07/06/06 11	07/06/06 15	07/06/06 18	07/07/06 08	07/07/06 11	07/07/06 12
Start latitude	N 5225.96	N 5219.59	N 5206.19	N 5210.99	N 5250.50	N 5251.69	N 5251.90
Start longitude	E 17426.87	E 17410.51	E 17349.09	E 17336.94	E 17225.01	E 17226.14	E 17222.00
End latitude	N 5225.25	N 5219.82	N 5206.58	N 5211.16	N 5250.69	N 5251.96	N 5252.13
End longitude	E 17426.32	E 17411.69	E 17350.18	E 17335.74	E 17223.75	E 17224.88	E 17220.75
Bottom depth (m)	364	382	415	244	221	152	175
Duration (minutes)	16.2	15.6	15.6	15.6	15.6	16.2	16.2
Distance fished (km)	1.504	1.429	1.475	1.43	1.477	1.525	1.486
Performance	0	0	0	4.4	0	0	0
Atka mackerel	0	0	0	0	0	0	2
Pacific cod	0	0	0	25	26	38	38
Walleye pollock	< 1	0	0	7	17	27	131
Pacific ocean perch	3	2	2	7588	2345	0	2
Northern rockfish	0	0	0	3	1	0	< 1
Shortraker rockfish	0	4	10	8	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	4	5	1	0	0	0
Shortspine thornyhead	56	67	50	35	5	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	< 1	< 1	< 1	< 1	0	0
Sablefish	0	0	16	0	0	0	0
Arrowtooth flounder	1	18	6	144	39	18	32
Pacific halibut	0	0	0	0	0	0	0
Northern rock sole	0	0	0	14	0	7	34
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	14	9	16	17	10	3	1
Greenland turbot	7	0	30	0	0	0	0
Flathead sole	0	0	0	10	7	6	2
Rex sole	18	11	0	2	0	0	0
Dover sole	0	0	0	4	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	0	0	0	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	3	< 1	< 1	5	< 1	0	< 1
Eelpout unident.	< 1	0	< 1	0	0	0	0
Other fish	56	83	58	35	5	< 1	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	< 1	0	2	7	3	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	3	10	16	2	< 1	0	0
Sponges	0	< 1	1	< 1	< 1	0	< 1
Starfish	0	0	< 1	0	0	0	0
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	< 1	0	0	0	0
Octopus	0	0	0	0	0	0	0
Snails	0	0	0	0	< 1	0	0
Other invertebrates	2	3	2	< 1	< 1	< 1	11
Total catch (kg)	108	143	163	7872	2455	100	256

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	121	122	123	124	125	126	127
Start date & time	07/07/06 14	07/07/06 15	07/07/06 18	07/07/06 19	07/08/06 09	07/08/06 13	07/08/06 16
Start latitude	N 5250.26	N 5251.77	N 5249.82	N 5249.13	N 5254.58	N 5259.01	N 5302.04
Start longitude	E 17220.55	E 17217.43	E 17213.06	E 17206.62	E 17053.17	E 17055.94	E 17054.21
End latitude	N 5250.16	N 5252.02	N 5249.75	N 5249.03	N 5254.37	N 5258.66	N 5302.28
End longitude	E 17221.83	E 17216.21	E 17211.77	E 17205.29	E 17051.91	E 17057.08	E 17052.87
Bottom depth (m)	319	214	383	363	239	135	320
Duration (minutes)	15.6	15.6	16.2	16.8	16.2	16.2	16.8
Distance fished (km)	1.463	1.471	1.471	1.529	1.488	1.452	1.58
Performance	0	0	0	0	0	0	0
Atka mackerel	0	2	0	< 1	37	4505	< 1
Pacific cod	0	29	0	0	0	0	0
Walleye pollock	1	28	5	0	0	0	0
Pacific ocean perch	10	3000	2	0	5397	214	2
Northern rockfish	0	0	0	0	0	529	0
Shortraker rockfish	19	0	33	84	10	0	40
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	2	0	6	31	2	0	22
Shortspine thornyhead	50	0	111	439	373	0	151
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	< 1	< 1	< 1	0	< 1
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	25	84	17	41	0	0	0
Pacific halibut	0	8	0	14	0	0	0
Northern rock sole	0	0	0	0	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	8	11	61	26	7	0	5
Greenland turbot	7	0	83	35	55	0	0
Flathead sole	0	< 1	0	0	0	0	0
Rex sole	1	0	9	0	< 1	0	0
Dover sole	0	0	0	2	8	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	2	2	42	44	16
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	2	1	< 1	2	5	1	1
Eelpout unident.	0	0	< 1	1	1	0	1
Other fish	51	0	111	439	373	45	151
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	5	2	0	2	7	0	< 1
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	1	0	4	< 1	18	< 1	0
Sponges	14	11	< 1	313	11	7	54
Starfish	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Soft coral	0	0	0	0	< 1	0	0
Stony coral unident.	0	0	0	< 1	0	< 1	0
Octopus	3	6	0	4	< 1	0	< 1
Snails	0	0	0	0	0	1	0
Other invertebrates	7	< 1	6	2	1	< 1	6
Total catch (kg)	157	3182	338	1000	5975	5347	300

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	128	129	130	131	132	133	134
Start date & time	07/08/06 18	07/08/06 19	07/08/06 20	07/09/06 09	07/09/06 11	07/09/06 13	07/09/06 17
Start latitude	N 5306.75	N 5307.40	N 5307.89	N 5256.67	N 5259.76	N 5300.06	N 5304.01
Start longitude	E 17054.23	E 17052.84	E 17054.50	E 17214.53	E 17219.33	E 17218.91	E 17257.100
End latitude	N 5306.50	N 5307.16	N 5308.38	N 5255.89	N 5259.36	N 5259.74	N 5303.92
End longitude	E 17055.50	E 17054.13	E 17053.48	E 17214.68	E 17218.17	E 17217.74	E 17258.70
Bottom depth (m)	99	109	121	249	180	227	116
Duration (minutes)	16.8	16.8	16.2	16.2	16.2	15.6	9
Distance fished (km)	1.512	1.523	1.483	1.49	1.522	1.463	0.811
Performance	0	0	0	0	0	0	-1.2
Atka mackerel	21	7	24	11	0	< 1	0
Pacific cod	0	0	0	26	74	35	82
Walleye pollock	6	8	< 1	4	0	3	0
Pacific ocean perch	0	0	3	3511	< 1	32	< 1
Northern rockfish	< 1	39	218	0	0	0	6
Shortraker rockfish	9	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	1	0	59	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	0	< 1	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	2	< 1	0	95	5	52	0
Pacific halibut	0	0	0	0	74	9	17
Northern rock sole	11	15	2	0	0	0	8
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	12	< 1	32	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	6	5	2	4	0	0	1
Rex sole	8	4	2	25	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	212	79	27	0	< 1	< 1	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	< 1
Other sculpins	6	11	< 1	< 1	< 1	4	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	0	1	18	59	< 1	0	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	1	0	0	3	0
Northern shrimp	0	0	0	0	0	< 1	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	< 1
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	< 1	0	< 1	31	391	50	< 1
Starfish	0	< 1	< 1	< 1	0	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	< 1	0	0	0	0	0	< 1
Octopus	0	0	0	0	< 1	0	0
Snails	0	0	< 1	0	0	0	< 1
Other invertebrates	< 1	< 1	2	< 1	91	5	3
Total catch (kg)	282	170	299	3780	636	227	121

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	135	136	137	138	139	140	141
Start date & time	07/09/06 18	07/09/06 20	07/11/06 09	07/11/06 10	07/11/06 12	07/11/06 14	07/11/06 17
Start latitude	N 5303.88	N 5258.010	N 5241.40	N 5239.71	N 5235.27	N 5230.82	N 5228.30
Start longitude	E 17259.08	E 17314.41	E 17237.96	E 17241.29	E 17255.75	E 17256.82	E 17311.39
End latitude	N 5304.05	N 5258.56	N 5240.88	N 5239.25	N 5235.85	N 5231.58	N 5229.06
End longitude	E 17257.79	E 17315.45	E 17238.90	E 17242.31	E 17254.88	E 17257.11	E 17311.03
Bottom depth (m)	118	87	413	410	150	187	118
Duration (minutes)	16.2	16.2	15.6	15.6	16.2	16.2	16.2
Distance fished (km)	1.497	1.488	1.472	1.479	1.498	1.512	1.528
Performance	0	5.8	0	0	1.11	0	0
Atka mackerel	0	2	0	0	0	0	< 1
Pacific cod	77	28	0	0	24	39	0
Walleye pollock	0	2	0	0	0	0	0
Pacific ocean perch	0	0	0	0	124	0	0
Northern rockfish	7	0	0	0	204	0	0
Shortraker rockfish	0	0	3	3	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	3	0	0	0
Shortspine thornyhead	0	0	68	47	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	< 1	< 1	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	< 1	< 1	0	0	26	88	39
Pacific halibut	0	28	0	0	30	0	2
Northern rock sole	29	13	0	0	18	< 1	53
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	< 1	0	0	0	1	10	2
Greenland turbot	0	0	11	8	0	0	0
Flathead sole	6	2	0	0	1	3	24
Rex sole	0	0	2	5	0	0	4
Dover sole	0	0	0	0	0	< 1	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	0	0	12	0	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	< 1	0	0	1	0	2
Other sculpins	10	0	0	0	< 1	< 1	0
Eelpout unident.	0	0	< 1	0	0	0	0
Other fish	0	1	246	87	20	0	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	3	0	0	0	0
Northern shrimp	0	0	0	0	0	< 1	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	0	1	4	< 1	0	0
Sponges	4	< 1	< 1	2	7	9	< 1
Starfish	< 1	< 1	0	< 1	< 1	1	< 1
Soft coral	0	0	0	0	< 1	0	< 1
Stony coral unident.	< 1	< 1	0	0	< 1	0	0
Octopus	0	0	0	0	6	3	0
Snails	0	0	0	< 1	0	< 1	0
Other invertebrates	1	2	8	3	2	4	4
Total catch (kg)	135	78	275	114	477	160	132



Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	142	143	144	145	146	147	148
Start date & time	07/12/06 09	07/12/06 12	07/12/06 16	07/12/06 19	07/12/06 21	07/13/06 08	07/13/06 11
Start latitude	N 5226.77	N 5206.26	N 5213.55	N 5220.63	N 5220.11	N 5232.95	N 5248.84
Start longitude	E 17346.29	E 17346.97	E 17327.70	E 17331.97	E 17311.82	E 17330.61	E 17344.56
End latitude	N 5227.49	N 5206.62	N 5213.86	N 5220.24	N 5220.65	N 5232.89	N 5249.26
End longitude	E 17346.96	E 17345.91	E 17326.49	E 17330.79	E 17310.88	E 17331.95	E 17343.44
Bottom depth (m)	77	408	177	87	158	138	118
Duration (minutes)	16.8	16.2	16.2	16.8	16.2	16.8	16.2
Distance fished (km)	1.603	1.401	1.52	1.556	1.505	1.537	1.504
Performance	0	0	0	0	0	0	0
Atka mackerel	3	0	0	0	0	1	1
Pacific cod	< 1	0	33	6	20	8	< 1
Walleye pollock	< 1	0	47	0	< 1	4	1
Pacific ocean perch	0	< 1	2301	0	< 1	0	25
Northern rockfish	0	0	1	0	0	0	131
Shortraker rockfish	0	13	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	2	0	0	0	0
Shortspine thornyhead	0	33	4	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	< 1	0	0	0	0
Sablefish	0	4	0	0	0	0	0
Arrowtooth flounder	< 1	0	125	12	21	38	24
Pacific halibut	9	0	0	8	0	0	17
Northern rock sole	170	0	16	117	4	3	9
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	31	22	2	11	7	2
Greenland turbot	0	10	0	0	0	0	0
Flathead sole	11	0	3	34	39	14	2
Rex sole	0	4	3	0	33	1	0
Dover sole	0	< 1	0	0	0	< 1	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	0	0	9	0	14	2
Shark unident.	0	1	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	6	0	18	0	5	0	< 1
Eelpout unident.	0	0	0	0	0	< 1	0
Other fish	< 1	33	4	< 1	0	2	< 1
Bairdi Tanner crab	0	0	0	0	0	2	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	< 1	0	0	0	< 1
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	0	0	0
Magistrate armhook squid	0	6	0	0	0	0	0
Sponges	< 1	< 1	< 1	0	< 1	0	< 1
Starfish	< 1	< 1	< 1	< 1	< 1	0	< 1
Soft coral	< 1	0	0	0	0	0	3
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	0	0	0	0	11
Snails	0	0	0	< 1	< 1	0	< 1
Other invertebrates	2	7	< 1	4	4	7	10
Total catch (kg)	203	110	2575	192	140	103	241

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	149	150	151	152	153	154	155
Start date & time	07/13/06 13	07/13/06 16	07/13/06 17	07/13/06 19	07/14/06 09	07/14/06 11	07/14/06 14
Start latitude	N 5239.45	N 5222.75	N 5222.90	N 5225.69	N 5234.69	N 5227.74	N 5223.27
Start longitude	E 17350.60	E 17358.04	E 17408.36	E 17415.19	E 17420.91	E 17412.85	E 17419.01
End latitude	N 5239.49	N 5223.49	N 5223.29	N 5226.32	N 5234.99	N 5228.31	N 5222.100
End longitude	E 17351.94	E 17358.54	E 17409.45	E 17415.92	E 17419.73	E 17413.72	E 17417.79
Bottom depth (m)	84	121	154	173	96	120	321
Duration (minutes)	16.8	16.2	15.6	15.6	16.2	16.2	16.2
Distance fished (km)	1.531	1.531	1.463	1.469	1.482	1.491	1.499
Performance	0	0	0	0	0	0	0
Atka mackerel	< 1	0	1	0	< 1	< 1	< 1
Pacific cod	15	1	87	19	76	405	0
Walleye pollock	0	0	< 1	20	0	0	0
Pacific ocean perch	0	0	76	912	0	0	5
Northern rockfish	0	0	28	0	47	0	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	68
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	< 1
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	26	35	266	< 1	< 1	57
Pacific halibut	< 1	0	0	0	71	0	0
Northern rock sole	6	93	54	43	22	51	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	2	1	1	0	< 1	5
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	18	4	9	20	19	< 1
Rex sole	0	0	2	50	2	3	102
Dover sole	0	0	0	0	0	0	3
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	0	0	0	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	3	4	0	0	< 1	0
Other sculpins	< 1	2	5	0	0	0	0
Eelpout unident.	0	0	0	0	0	0	< 1
Other fish	< 1	< 1	16	< 1	31	< 1	69
Bairdi Tanner crab	0	0	< 1	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	0	0	0	< 1
Sponges	< 1	< 1	< 1	0	3	0	< 1
Starfish	< 1	< 1	0	0	0	0	0
Soft coral	0	0	0	0	10	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	6	0	0	0	0	0
Snails	< 1	0	0	0	0	0	0
Other invertebrates	11	3	7	< 1	7	< 1	2
Total catch (kg)	33	155	322	1320	291	481	246

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	156	157	158	159	160	161	162
Start date & time	07/14/06 16	07/15/06 08	07/15/06 12	07/15/06 14	07/15/06 16	07/15/06 18	07/16/06 09
Start latitude	N 5224.66	N 5215.34	N 5214.16	N 5210.50	N 5205.16	N 5204.84	N 5141.75
Start longitude	E 17425.44	E 17506.47	E 17514.54	E 17510.13	E 17507.36	E 17511.81	E 17532.71
End latitude	N 5224.07	N 5215.64	N 5214.86	N 5211.02	N 5204.61	N 5205.39	N 5141.04
End longitude	E 17424.58	E 17507.64	E 17515.06	E 17511.09	E 17506.44	E 17512.75	E 17533.35
Bottom depth (m)	358	270	150	175	389	341	190
Duration (minutes)	16.2	15.6	15.6	15.6	16.2	16.2	16.2
Distance fished (km)	1.505	1.481	1.472	1.495	1.501	1.525	1.553
Performance	0	0	0	0	0	0	0
Atka mackerel	0	< 1	300	7	< 1	0	0
Pacific cod	0	0	20	0	0	0	0
Walleye pollock	3	81	< 1	3	< 1	11	3
Pacific ocean perch	9	1588	502	126	7	17	40
Northern rockfish	0	0	16	0	0	0	3
Shortraker rockfish	0	0	0	0	17	8	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	< 1	< 1	0	4	0	0
Shortspine thornyhead	45	0	0	0	49	60	8
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	< 1	< 1	< 1
Sablefish	0	0	0	0	5	0	0
Arrowtooth flounder	< 1	0	< 1	16	7	1	8
Pacific halibut	0	0	0	0	0	0	0
Northern rock sole	0	0	0	1	0	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	17	6	0	2	39	2	2
Greenland turbot	0	0	0	0	8	3	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	45	1	0	< 1	2	< 1	1
Dover sole	0	0	0	< 1	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	0	6	0	< 1	< 1	11
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	< 1	28	< 1	15	1	4	34
Eelpout unident.	< 1	0	0	0	0	0	0
Other fish	45	< 1	33	< 1	49	60	25
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	2	0	2	5	0	0	0
Northern shrimp	0	< 1	0	0	0	0	< 1
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	9	5	0	0	0	2	< 1
Sponges	0	13	13	5	44	42	19
Starfish	< 1	< 1	< 1	0	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	< 1	< 1	< 1	< 1	< 1
Octopus	0	0	0	0	0	< 1	0
Snails	0	0	0	0	0	0	0
Other invertebrates	2	6	4	8	11	2	3
Total catch (kg)	133	1730	899	190	196	153	149

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	163	164	165	166	167	168	169
Start date & time	07/16/06 10	07/16/06 14	07/16/06 16	07/16/06 18	07/17/06 09	07/17/06 11	07/17/06 15
Start latitude	N 5145.17	N 5142.98	N 5150.15	N 5151.39	N 5146.60	N 5153.80	N 5207.40
Start longitude	E 17540.60	E 17547.04	E 17550.68	E 17553.52	E 17554.91	E 17555.94	E 17614.28
End latitude	N 5145.63	N 5142.99	N 5149.82	N 5150.100	N 5145.90	N 5153.66	N 5207.82
End longitude	E 17539.72	E 17548.35	E 17549.48	E 17552.36	E 17554.29	E 17554.68	E 17613.34
Bottom depth (m)	91	95	74	87	86	169	229
Duration (minutes)	14.4	16.8	16.8	16.8	16.2	16.2	14.4
Distance fished (km)	1.35	1.521	1.531	1.546	1.531	1.488	1.366
Performance	1.1	1.1	0	0	0	0	4.4
Atka mackerel	114	14	142	2001	4228	58	< 1
Pacific cod	0	0	0	11	0	0	8
Walleye pollock	< 1	< 1	0	0	7	155	34
Pacific ocean perch	14	165	2	< 1	0	1504	4693
Northern rockfish	1287	1265	675	1144	1401	1204	9
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	2
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	< 1	< 1	0	0	0
Dark rockfish	95	16	6	94	0	0	0
Other rockfish	0	0	0	0	0	< 1	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	< 1	< 1	0	0	4	282	4
Pacific halibut	0	0	29	0	0	0	0
Northern rock sole	< 1	16	15	7	19	< 1	19
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	0	< 1	5	2
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	< 1	0	0	0	3	0
Rex sole	0	13	0	0	15	8	0
Dover sole	0	0	0	0	0	5	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	10	0	0	< 1	53	0	107
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	5	5	4	54	0	0	0
Other sculpins	< 1	< 1	0	0	5	6	3
Eelpout unident.	0	0	0	0	0	0	0
Other fish	20	23	6	10	0	2	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	< 1	< 1	< 1	0	0	0	5
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	0	0	0	0	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	42	24	12	106	< 1	< 1	0
Starfish	< 1	< 1	< 1	1	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	11	7	2	1	< 1	< 1	0
Octopus	0	8	0	1	0	3	0
Snails	< 1	< 1	0	< 1	0	0	0
Other invertebrates	8	7	5	7	0	< 1	0
Total catch (kg)	1610	1567	899	3440	5733	3238	4888

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	170	171	172	173	174	175	176
Start date & time	07/17/06 18	07/18/06 08	07/18/06 10	07/18/06 13	07/18/06 15	07/18/06 17	07/18/06 20
Start latitude	N 5208.34	N 5159.43	N 5157.74	N 5156.24	N 5154.010	N 5155.31	N 5151.88
Start longitude	E 17614.59	E 17812.76	E 17811.35	E 17809.75	E 17813.63	E 17815.21	E 17814.90
End latitude	N 5208.82	N 5158.63	N 5158.26	N 5155.90	N 5154.09	N 5155.83	N 5151.46
End longitude	E 17613.53	E 17812.71	E 17810.45	E 17810.89	E 17812.36	E 17814.17	E 17816.06
Bottom depth (m)	123	90	258	344	272	251	95
Duration (minutes)	16.2	16.2	15.6	16.2	15.6	16.8	16.8
Distance fished (km)	1.545	1.505	1.444	1.481	1.458	1.567	1.58
Performance	0	0	0	0	0	0	0
Atka mackerel	30	243	4	0	0	0	654
Pacific cod	0	33	13	0	0	16	14
Walleye pollock	0	< 1	88	64	26	182	0
Pacific ocean perch	28	0	1248	6	234	3786	2
Northern rockfish	386	0	1	0	0	< 1	0
Shortraker rockfish	0	0	4	0	93	42	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	1	19	9	33	0
Shortspine thornyhead	0	0	0	2	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	< 1	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	19	6	143	258	0
Pacific halibut	13	23	0	0	0	0	16
Northern rock sole	3	67	88	0	32	9	41
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	3	603	31	8	0
Greenland turbot	0	0	0	13	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	< 1	25	< 1	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	2	28	< 1	3	2	5	11
Shark unident.	0	0	0	0	0	0	2
Yellow Irish lord	1	< 1	0	0	0	0	7
Other sculpins	0	< 1	6	0	< 1	8	< 1
Eelpout unident.	0	0	0	2	3	0	0
Other fish	11	0	1	2528	3	4	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	7	0	3	3	0
Northern shrimp	0	0	1	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	< 1	< 1	0	< 1	0	< 1
Magistrate armhook squid	0	0	0	0	< 1	0	0
Sponges	< 1	< 1	5	< 1	< 1	0	< 1
Starfish	< 1	< 1	< 1	< 1	0	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	0	< 1	0	0
Octopus	0	0	0	0	0	0	4
Snails	0	< 1	< 1	0	< 1	0	< 1
Other invertebrates	< 1	2	4	< 1	3	< 1	2
Total catch (kg)	476	398	1495	3244	608	4356	757

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	177	178	179	180	181	182	183
Start date & time	07/21/06 11	07/21/06 15	07/21/06 17	07/22/06 08	07/22/06 13	07/22/06 16	07/22/06 19
Start latitude	N 5137.82	N 5138.57	N 5139.22	N 5115.25	N 5114.88	N 5121.69	N 5122.52
Start longitude	W 17835.37	W 17836.12	W 17832.30	E 17916.54	E 17912.79	E 17909.44	E 17906.43
End latitude	N 5137.79	N 5138.60	N 5139.35	N 5115.20	N 5114.88	N 5122.26	N 5123.06
End longitude	W 17834.15	W 17834.92	W 17833.46	E 17915.74	E 17911.61	E 17908.66	E 17905.60
Bottom depth (m)	84	123	274	162	211	63	81
Duration (minutes)	15	15	15	10.2	15	15.6	15.6
Distance fished (km)	1.413	1.405	1.387	0.943	1.381	1.434	1.417
Performance	0	0	0	0	0	0	0
Atka mackerel	4548	0	0	4	0	1823	1514
Pacific cod	172	54	11	86	102	40	58
Walleye pollock	0	0	227	107	36	0	0
Pacific ocean perch	0	0	5060	4175	3887	0	0
Northern rockfish	0	0	0	115	1	0	14
Shortraker rockfish	0	0	9	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	2	0	1	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	4	2	< 1	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	< 1	0	0	0
Sablefish	0	0	25	0	0	0	0
Arrowtooth flounder	< 1	< 1	73	11	2	< 1	0
Pacific halibut	60	32	7	0	0	10	17
Northern rock sole	142	62	< 1	54	4	19	30
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	16	2	1	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	6	0	0	0	0
Rex sole	0	0	52	3	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	0	2	62	19	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	< 1	5	0	0	0	< 1	3
Other sculpins	0	0	2	< 1	26	0	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	0	0	< 1	< 1	< 1	0	6
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	< 1	0	0	0	0	< 1
Magistrate armhook squid	0	0	2	0	0	0	0
Sponges	0	< 1	0	0	< 1	0	63
Starfish	0	0	0	0	< 1	< 1	< 1
Soft coral	0	0	0	0	0	0	< 1
Stony coral unident.	0	0	0	0	0	0	< 1
Octopus	0	7	0	2	< 1	0	0
Snails	0	0	0	0	0	0	< 1
Other invertebrates	< 1	18	< 1	0	< 1	< 1	31
Total catch (kg)	4924	179	5496	4627	4084	1895	1737

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	184	185	186	187	188	189	190
Start date & time	07/23/06 08	07/23/06 11	07/23/06 13	07/23/06 16	07/23/06 18	07/24/06 09	07/24/06 14
Start latitude	N 5150.98	N 5146.69	N 5144.72	N 5143.07	N 5149.46	N 5220.57	N 5210.76
Start longitude	E 17728.16	E 17728.63	E 17721.49	E 17718.14	E 17714.82	E 17622.91	E 17620.96
End latitude	N 5150.53	N 5146.33	N 5144.53	N 5143.26	N 5149.90	N 5221.16	N 5210.75
End longitude	E 17727.13	E 17727.50	E 17720.33	E 17719.34	E 17713.84	E 17622.18	E 17619.66
Bottom depth (m)	107	269	275	458	74	228	93
Duration (minutes)	15.6	16.2	15	15.6	15.6	15	16.8
Distance fished (km)	1.48	1.495	1.402	1.442	1.43	1.426	1.499
Performance	0	0	0	0	0	0	0
Atka mackerel	1	0	0	0	32	0	131
Pacific cod	0	4	0	0	29	0	0
Walleye pollock	0	35	65	1	0	692	0
Pacific ocean perch	0	76	41	0	0	1898	0
Northern rockfish	< 1	0	0	0	< 1	2	0
Shortraker rockfish	0	1	0	41	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	1	0	2	0	3	0
Shortspine thornyhead	0	76	41	41	< 1	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	1	0	0
Other rockfish	0	< 1	< 1	< 1	< 1	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	9	1	0	11	6	7	0
Pacific halibut	0	0	0	0	2	0	2
Northern rock sole	93	1	0	0	27	< 1	21
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	1	14	0	0	0	6	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	< 1	4	0	4	0	< 1	0
Dover sole	0	0	0	0	0	< 1	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	2	1	< 1	11	0	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	< 1	2	5	0	< 1	11	0
Eelpout unident.	0	< 1	0	2	0	0	0
Other fish	< 1	76	43	139	< 1	8	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	4	0	0	0	< 1	0
Northern shrimp	0	< 1	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	0	3	2	< 1	0	0	0
Sponges	< 1	4	26	1	< 1	22	< 1
Starfish	< 1	< 1	< 1	< 1	0	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	< 1	< 1	< 1	0	< 1	0
Octopus	0	0	0	0	0	0	0
Snails	0	0	0	0	0	0	0
Other invertebrates	1	< 1	1	3	4	3	3
Total catch (kg)	108	229	185	205	113	2654	157

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	191	192	193	194	195	196	197
Start date & time	07/24/06 18	07/24/06 21	07/25/06 09	07/25/06 16	07/25/06 17	07/26/06 09	07/26/06 16
Start latitude	N 5202.04	N 5154.39	N 5207.09	N 5203.40	N 5203.22	N 5205.09	N 5151.67
Start longitude	E 17627.99	E 17634.99	E 17616.86	E 17624.20	E 17624.71	E 17619.99	E 17724.97
End latitude	N 5201.67	N 5154.31	N 5206.66	N 5203.08	N 5203.59	N 5204.68	N 5150.97
End longitude	E 17629.02	E 17636.16	E 17617.69	E 17625.14	E 17623.59	E 17620.87	E 17724.40
Bottom depth (m)	159	262	128	157	148	152	92
Duration (minutes)	15	14.4	14.4	14.4	15.6	14.4	15.6
Distance fished (km)	1.399	1.357	1.266	1.258	1.477	1.291	1.514
Performance	0	5.8	5.1	-5.8	1.1	1.12	0
Atka mackerel	1	< 1	722	16	244	3	0
Pacific cod	5	0	30	4	0	44	0
Walleye pollock	< 1	2	0	0	0	0	0
Pacific ocean perch	25	1855	173	227	29	1267	116
Northern rockfish	76	1	597	7	24	14	11
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	2	1	0	0	0	0	0
Shortspine thornyhead	0	7	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	4	0	0	0	0	7
Pacific halibut	0	0	0	0	0	0	0
Northern rock sole	0	0	< 1	0	0	0	77
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	0	0	0	0	0	2
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	1
Rex sole	0	0	0	0	0	0	1
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	0	< 1	< 1	0	< 1	< 1	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	1	0	0	0	0
Other sculpins	< 1	13	< 1	< 1	2	7	2
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	7	18	0	< 1	4	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	< 1	0	< 1	< 1	0
Magistrate armhook squid	0	14	0	0	0	0	0
Sponges	85	14	8	1	388	84	2
Starfish	1	< 1	< 1	< 1	4	2	< 1
Soft coral	0	0	0	0	< 1	< 1	0
Stony coral unident.	< 1	< 1	< 1	< 1	1	1	< 1
Octopus	0	< 1	0	2	0	1	0
Snails	< 1	< 1	< 1	0	< 1	< 1	0
Other invertebrates	4	< 1	3	1	12	6	1
Total catch (kg)	200	1912	1552	259	705	1434	221



Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	198	199	200	201	202	203	204
Start date & time	07/26/06 19	07/26/06 21	07/27/06 09	07/28/06 09	07/28/06 10	07/28/06 12	07/28/06 15
Start latitude	N 5149.69	N 5147.94	N 5159.27	N 5159.74	N 5201.59	N 5205.68	N 5203.00
Start longitude	E 17740.44	E 17745.81	E 17744.37	E 17739.15	E 17745.01	E 17742.66	E 17749.79
End latitude	N 5149.56	N 5148.70	N 5158.69	N 5159.50	N 5201.74	N 5206.41	N 5203.73
End longitude	E 17739.23	E 17745.72	E 17745.21	E 17740.31	E 17743.82	E 17742.32	E 17749.51
Bottom depth (m)	132	138	91	84	200	94	245
Duration (minutes)	15.6	15	16.2	15.6	15.6	15.6	15.6
Distance fished (km)	1.423	1.434	1.474	1.419	1.411	1.462	1.434
Performance	0	1.1	0	0	0	0	-5.1
Atka mackerel	21	43	3287	17	3	424	0
Pacific cod	16	23	15	1	1	27	0
Walleye pollock	< 1	3	0	0	0	0	0
Pacific ocean perch	165	33	0	0	2	0	9301
Northern rockfish	448	531	13	0	0	115	0
Shortraker rockfish	0	0	0	0	0	0	49
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	11	9	< 1	8	60	0	0
Pacific halibut	7	38	16	0	0	16	0
Northern rock sole	195	3	39	30	62	474	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	2	1	0	2	21	< 1	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	< 1	10	< 1	0
Rex sole	0	0	0	0	< 1	0	0
Dover sole	0	0	0	< 1	< 1	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	8	0	< 1	26	< 1	1	0
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	9	< 1	1	0	< 1	14	0
Other sculpins	1	1	7	< 1	< 1	13	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	2	0	< 1	1	< 1	0
Bairdi Tanner crab	0	0	0	0	< 1	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	< 1	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	< 1	< 1	< 1	27	< 1	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	3	74	< 1	< 1	2	12	0
Starfish	< 1	1	< 1	< 1	2	6	0
Soft coral	< 1	0	0	< 1	0	< 1	0
Stony coral unident.	< 1	< 1	< 1	< 1	< 1	< 1	0
Octopus	11	0	0	0	0	0	0
Snails	< 1	< 1	0	0	< 1	4	0
Other invertebrates	4	5	2	4	7	65	0
Total catch (kg)	901	768	3382	91	200	1174	9350

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	205	206	207	208	209	210	211
Start date & time	07/28/06 17	07/28/06 20	07/28/06 21	07/29/06 09	07/29/06 11	07/29/06 13	07/29/06 14
Start latitude	N 5202.06	N 5153.50	N 5152.88	N 5152.71	N 5145.07	N 5144.69	N 5143.15
Start longitude	E 17801.96	E 17745.19	E 17742.56	E 17741.77	E 17751.36	E 17753.87	E 17755.82
End latitude	N 5201.35	N 5153.31	N 5153.08	N 5152.47	N 5145.22	N 5144.90	N 5143.38
End longitude	E 17801.57	E 17746.43	E 17743.76	E 17740.60	E 17750.14	E 17752.72	E 17754.67
Bottom depth (m)	203	93	97	94	162	163	249
Duration (minutes)	15	16.2	16.2	15.6	16.2	15.6	15.6
Distance fished (km)	1.441	1.483	1.448	1.445	1.445	1.4	1.419
Performance	0	0	0	0	0	0	0
Atka mackerel	0	< 1	< 1	347	1	2	0
Pacific cod	125	14	8	12	3	0	0
Walleye pollock	0	0	0	0	64	108	220
Pacific ocean perch	831	2	< 1	0	< 1	8	70
Northern rockfish	< 1	15	73	< 1	15	39	3
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	17
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	< 1
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	59	< 1	3	< 1	11	7	3
Pacific halibut	0	12	10	42	0	0	0
Northern rock sole	33	128	90	120	83	48	17
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	3	0	4	0	4	8	6
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	9	< 1	0	0	< 1	14	4
Rex sole	18	0	0	0	35	33	35
Dover sole	0	0	0	0	< 1	0	< 1
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	12	0	10	12	< 1	0	5
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	1	4	< 1	0	< 1	< 1	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	< 1	< 1	0	0	< 1	< 1	17
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	< 1
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	< 1	< 1	0	< 1	0
Magistrate armhook squid	0	0	0	0	0	0	2
Sponges	7	< 1	1	< 1	< 1	< 1	< 1
Starfish	< 1	< 1	< 1	0	0	0	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	11	0	0	0	0	< 1
Snails	< 1	0	0	0	0	0	0
Other invertebrates	6	4	< 1	< 1	7	< 1	1
Total catch (kg)	1105	192	201	534	228	269	386

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	212	213	214	215	216	217	218
Start date & time	07/29/06 16	07/29/06 18	07/30/06 09	07/30/06 10	07/30/06 13	07/30/06 15	07/30/06 17
Start latitude	N 5138.91	N 5146.73	N 5150.19	N 5153.15	N 5151.35	N 5151.54	N 5152.31
Start longitude	E 17808.00	E 17808.12	E 17816.64	E 17820.02	E 17825.68	E 17827.74	E 17833.25
End latitude	N 5138.97	N 5146.75	N 5150.39	N 5152.55	N 5150.69	N 5151.14	N 5152.63
End longitude	E 17806.77	E 17806.87	E 17815.47	E 17820.85	E 17826.38	E 17826.71	E 17834.39
Bottom depth (m)	347	92	61	154	391	226	412
Duration (minutes)	15.6	15.6	15	15.6	15.6	15	15.6
Distance fished (km)	1.438	1.444	1.409	1.496	1.506	1.448	1.465
Performance	0	0	5.8	0	0	0	0
Atka mackerel	0	149	465	1	0	0	0
Pacific cod	0	289	14	43	0	3	0
Walleye pollock	0	0	0	0	0	4	0
Pacific ocean perch	0	0	0	1095	0	2300	2
Northern rockfish	0	0	0	2	0	0	0
Shortraker rockfish	0	0	0	0	14	8	26
Rougheye rockfish	0	0	0	0	0	0	2
Blackspotted rockfish	2	0	0	2	14	10	17
Shortspine thornyhead	4	0	0	0	43	1	21
Dusky rockfish	0	0	0	0	0	2	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	< 1	< 1	< 1
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	0	0	< 1	29	70	49	19
Pacific halibut	0	5	8	3	0	0	0
Northern rock sole	5	39	53	51	0	4	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	< 1	6	0	5	16	2	27
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	4	0	0	0
Rex sole	27	0	0	2	< 1	1	< 1
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	2	0	1	422	9	1	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	0	0
Other sculpins	< 1	0	10	< 1	6	7	2
Eelpout unident.	7	0	0	0	< 1	0	< 1
Other fish	10	0	0	0	43	2	315
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	3	0	0	< 1
Northern shrimp	< 1	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	0	0
Magistrate armhook squid	5	0	0	0	1	0	< 1
Sponges	< 1	< 1	0	6	5	3	< 1
Starfish	0	0	0	< 1	0	0	0
Soft coral	0	0	0	0	0	0	< 1
Stony coral unident.	0	0	0	0	0	0	0
Octopus	0	0	0	0	1	0	0
Snails	0	0	0	0	0	0	0
Other invertebrates	26	3	< 1	< 1	1	0	0
Total catch (kg)	86	491	552	1669	183	2398	413

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	219	220	221	222	223	224	225
Start date & time	07/30/06 20	07/31/06 09	07/31/06 11	07/31/06 13	07/31/06 14	07/31/06 17	08/01/06 09
Start latitude	N 5137.26	N 5140.29	N 5141.46	N 5140.64	N 5140.04	N 5129.90	N 5129.97
Start longitude	E 17824.84	E 17757.41	E 17816.07	E 17820.10	E 17820.20	E 17849.85	E 17839.21
End latitude	N 5137.88	N 5140.67	N 5141.54	N 5140.94	N 5139.85	N 5130.34	N 5130.24
End longitude	E 17824.15	E 17756.35	E 17814.83	E 17818.96	E 17821.40	E 17848.78	E 17838.09
Bottom depth (m)	160	385	126	127	149	93	156
Duration (minutes)	15	15	15.6	15.6	15	16.2	15
Distance fished (km)	1.433	1.435	1.448	1.452	1.431	1.519	1.407
Performance	0	0	0	0	0	0	0
Atka mackerel	184	0	0	< 1	1	1649	84
Pacific cod	10	0	43	7	16	44	40
Walleye pollock	29	0	23	2	0	0	11
Pacific ocean perch	438	2	10	0	0	< 1	964
Northern rockfish	3	0	237	5	8	< 1	7
Shortraker rockfish	0	30	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	35	0	0	0	0	0
Dusky rockfish	0	0	0	0	< 1	0	1
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	21	7	3	7	28	1	10
Pacific halibut	0	0	0	< 1	21	< 1	0
Northern rock sole	11	0	245	136	151	18	11
Southern rock sole	0	0	0	0	0	< 1	0
Kamchatka flounder	14	0	0	0	2	< 1	8
Greenland turbot	0	4	0	0	0	0	0
Flathead sole	0	0	< 1	0	0	0	0
Rex sole	0	23	28	0	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	18	9	0	12	0	15	< 1
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	6	0	0	0	31	0	0
Other sculpins	7	< 1	0	0	< 1	0	5
Eelpout unident.	0	2	0	0	< 1	0	0
Other fish	< 1	103	0	0	6	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	< 1	< 1	0	0
Magistrate armhook squid	< 1	3	1	< 1	0	0	0
Sponges	16	< 1	< 1	< 1	2	0	< 1
Starfish	2	< 1	< 1	< 1	1	< 1	< 1
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	< 1	< 1	< 1	< 1	0	0	0
Octopus	5	0	0	0	0	0	0
Snails	< 1	0	0	0	2	0	0
Other invertebrates	8	1	3	3	8	0	12
Total catch (kg)	774	186	595	173	278	1730	1155

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	226	227	228	229	230	231	232
Start date & time	08/01/06 11	08/01/06 14	08/01/06 16	08/02/06 09	08/02/06 15	08/02/06 17	08/02/06 19
Start latitude	N 5129.72	N 5125.73	N 5124.85	N 5111.95	N 5133.37	N 5136.67	N 5138.48
Start longitude	E 17840.08	E 17849.73	E 17851.92	W 17905.85	W 17821.88	W 17810.21	W 17809.29
End latitude	N 5129.35	N 5126.04	N 5125.31	N 5111.69	N 5134.15	N 5137.04	N 5138.65
End longitude	E 17841.17	E 17848.61	E 17850.93	W 17906.100	W 17822.15	W 17811.30	W 17810.03
Bottom depth (m)	155	222	206	93	149	126	80
Duration (minutes)	15.6	15.6	15.6	15.6	16.2	15.6	11.4
Distance fished (km)	1.46	1.448	1.468	1.441	1.523	1.456	0.935
Performance	0	0	0	0	1.1	0	-1.12
Atka mackerel	13	0	0	3709	133	1954	500
Pacific cod	25	24	37	4	132	70	0
Walleye pollock	9	4	31	0	0	0	0
Pacific ocean perch	2592	1351	2699	0	0	0	0
Northern rockfish	19	< 1	3	0	0	1	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	< 1	9	6	0	0	0	0
Shortspine thornyhead	0	48	30	0	0	0	0
Dusky rockfish	0	0	2	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	< 1	0	0	0	0
Sablefish	0	0	0	0	0	0	0
Arrowtooth flounder	35	5	9	32	0	13	0
Pacific halibut	0	0	0	0	25	60	0
Northern rock sole	34	< 1	< 1	125	13	38	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	1	0	0	1	0	0	0
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	0	0	0	0
Rex sole	0	0	0	1	0	0	0
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	< 1	0	32	147	3	45	0
Shark unident.	0	0	0	2	1	0	0
Yellow Irish lord	0	0	0	11	18	15	0
Other sculpins	2	9	6	1	< 1	4	0
Eelpout unident.	0	0	0	0	0	0	0
Other fish	7	49	30	0	0	0	0
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	< 1	0	0
Northern shrimp	0	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	0	0	0	0	< 1	0
Magistrate armhook squid	0	0	0	0	0	0	0
Sponges	1	7	2	0	64	15	1000
Starfish	< 1	< 1	0	< 1	4	< 1	0
Soft coral	0	0	0	0	0	0	0
Stony coral unident.	< 1	< 1	< 1	0	< 1	< 1	0
Octopus	4	0	0	0	< 1	0	0
Snails	< 1	< 1	0	< 1	< 1	< 1	0
Other invertebrates	12	28	2	2	10	30	0
Total catch (kg)	2755	1487	2859	4035	405	2248	1500

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	233	234	235	236	237	238	239
Start date & time	08/02/06 20	08/03/06 09	08/03/06 11	08/03/06 14	08/03/06 17	08/03/06 20	08/04/06 09
Start latitude	N 5138.30	N 5136.61	N 5136.42	N 5139.56	N 5137.13	N 5140.93	N 5124.03
Start longitude	W 17809.82	W 17851.68	W 17851.34	W 17826.56	W 17827.42	W 17819.13	W 17817.83
End latitude	N 5138.63	N 5136.92	N 5136.74	N 5139.73	N 5136.79	N 5140.27	N 5124.35
End longitude	W 17810.90	W 17850.58	W 17850.26	W 17825.39	W 17826.32	W 17819.00	W 17818.92
Bottom depth (m)	91	317	262	380	156	271	418
Duration (minutes)	15	15	15	15	15.6	14.4	15.6
Distance fished (km)	1.417	1.409	1.415	1.396	1.437	1.257	1.422
Performance	1.1	0	0	5.8	0	-2.4	0
Atka mackerel	376	0	0	0	8196	0	0
Pacific cod	275	0	27	0	502	7	0
Walleye pollock	0	6	65	21	0	54	0
Pacific ocean perch	0	26	753	0	62	139	0
Northern rockfish	0	0	< 1	0	0	0	0
Shortraker rockfish	0	106	2	27	0	0	47
Rougheye rockfish	0	0	0	0	0	0	1
Blackspotted rockfish	0	46	2	3	0	0	5
Shortspine thornyhead	0	29	7	0	0	0	6
Dusky rockfish	1	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	< 1	< 1	0	0	0	< 1
Sablefish	0	124	15	27	0	0	8
Arrowtooth flounder	0	48	171	65	0	2	4
Pacific halibut	25	0	0	73	3	0	0
Northern rock sole	97	0	6	0	2	0	0
Southern rock sole	0	0	0	0	0	0	0
Kamchatka flounder	0	5	7	519	0	8	4
Greenland turbot	0	0	0	14	0	0	18
Flathead sole	0	0	< 1	0	0	0	0
Rex sole	0	16	12	0	0	0	0
Dover sole	0	0	< 1	0	0	0	3
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	69	38	37	7	7	< 1	0
Shark unident.	0	0	0	0	2	0	0
Yellow Irish lord	59	2	0	0	4	< 1	0
Other sculpins	< 1	13	29	< 1	< 1	6	0
Eelpout unident.	0	7	0	< 1	0	0	0
Other fish	16	50	9	< 1	5	< 1	393
Bairdi Tanner crab	0	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	5	0	0	< 1
Northern shrimp	0	< 1	< 1	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	< 1	0	< 1	0	< 1	0	0
Magistrate armhook squid	0	< 1	< 1	< 1	0	0	3
Sponges	605	56	6	2	17	3	3
Starfish	3	< 1	< 1	< 1	< 1	< 1	0
Soft coral	< 1	< 1	< 1	0	< 1	< 1	0
Stony coral unident.	9	2	2	< 1	< 1	< 1	0
Octopus	3	0	0	0	3	0	0
Snails	< 1	< 1	< 1	< 1	3	0	0
Other invertebrates	29	29	18	6	2	10	10
Total catch (kg)	1570	573	1164	770	8810	232	498

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	240	241	242	243	244	245	246
Start date & time	08/04/06 11	08/05/06 08	08/05/06 10	08/05/06 13	08/05/06 17	08/05/06 19	08/05/06 20
Start latitude	N 5127.22	N 5203.53	N 5204.37	N 5212.71	N 5222.52	N 5216.45	N 5218.69
Start longitude	W 17828.19	W 17527.58	W 17516.40	W 17456.61	W 17358.93	W 17357.87	W 17349.89
End latitude	N 5127.34	N 5203.11	N 5204.04	N 5212.48	N 5222.81	N 5215.70	N 5218.28
End longitude	W 17829.36	W 17528.60	W 17517.63	W 17457.77	W 17400.11	W 17358.25	W 17350.98
Bottom depth (m)	315	85	95	213	90	91	113
Duration (minutes)	15	15.6	16.2	15	15.6	15.6	15.6
Distance fished (km)	1.383	1.44	1.562	1.419	1.475	1.507	1.481
Performance	1.1	0	0	0	0	0	0
Atka mackerel	0	0	0	0	< 1	0	0
Pacific cod	0	6	< 1	15	0	0	21
Walleye pollock	0	0	< 1	1	< 1	0	< 1
Pacific ocean perch	1	0	0	115	0	0	2
Northern rockfish	0	0	0	0	0	0	5
Shortraker rockfish	57	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	18	0	0	0	0	0	0
Shortspine thornyhead	10	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	< 1	0	0	0	0	0	0
Sablefish	54	0	0	0	0	0	0
Arrowtooth flounder	43	0	6	16	0	81	85
Pacific halibut	0	50	12	18	16	6	45
Northern rock sole	0	69	84	0	17	48	1
Southern rock sole	0	0	0	0	7	9	0
Kamchatka flounder	61	0	< 1	15	< 1	27	8
Greenland turbot	0	0	0	0	0	0	0
Flathead sole	0	0	0	< 1	0	32	2
Rex sole	0	0	0	< 1	0	22	0
Dover sole	0	0	0	0	0	< 1	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	46	30	11	< 1	0	0	4
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	26	0	0	7	0	0
Other sculpins	7	< 1	< 1	< 1	16	4	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	10	0	< 1	< 1	< 1	< 1	< 1
Bairdi Tanner crab	0	0	0	0	0	0	1
Red king crab	0	0	0	0	0	0	0
Golden king crab	7	0	0	0	0	0	< 1
Northern shrimp	0	0	0	< 1	0	0	< 1
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	< 1	< 1	< 1	5	< 1	2
Magistrate armhook squid	1	0	< 1	0	0	0	0
Sponges	21	5	< 1	< 1	< 1	< 1	< 1
Starfish	< 1	< 1	< 1	< 1	1	0	< 1
Soft coral	< 1	0	0	< 1	0	0	0
Stony coral unident.	5	1	< 1	< 1	< 1	< 1	< 1
Octopus	0	0	0	0	4	4	15
Snails	< 1	< 1	< 1	0	< 1	0	< 1
Other invertebrates	24	3	10	5	8	2	9
Total catch (kg)	354	191	126	188	84	236	202

Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	247	248	249	250	251	252	253
Start date & time	08/06/06 08	08/06/06 09	08/06/06 12	08/06/06 14	08/06/06 16	08/06/06 17	08/07/06 08
Start latitude	N 5225.47	N 5223.89	N 5213.95	N 5214.29	N 5214.95	N 5215.17	N 5223.15
Start longitude	W 17348.11	W 17348.92	W 17325.72	W 17324.22	W 17303.58	W 17301.52	W 17238.99
End latitude	N 5225.38	N 5223.16	N 5214.61	N 5213.52	N 5214.91	N 5215.05	N 5222.72
End longitude	W 17349.34	W 17349.26	W 17326.38	W 17324.35	W 17304.85	W 17300.23	W 17239.100
Bottom depth (m)	144	127	107	109	137	141	244
Duration (minutes)	15.6	15.6	15.6	15.6	15.6	16.2	15
Distance fished (km)	1.424	1.461	1.485	1.472	1.458	1.498	1.421
Performance	0	0	1.1	0	0	0	0
Atka mackerel	0	0	6	1	0	0	2
Pacific cod	73	45	2	3	40	13	0
Walleye pollock	17	2	2	< 1	0	0	99
Pacific ocean perch	0	0	51	0	0	3	3
Northern rockfish	0	0	4	< 1	0	2	0
Shortraker rockfish	0	0	0	0	0	0	0
Rougheye rockfish	0	0	0	0	0	0	0
Blackspotted rockfish	0	0	0	0	0	0	0
Shortspine thornyhead	0	0	0	0	0	0	0
Dusky rockfish	0	0	0	0	0	0	0
Dark rockfish	0	0	0	0	0	0	0
Other rockfish	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	143
Arrowtooth flounder	41	0	35	59	71	61	244
Pacific halibut	0	6	32	31	0	0	0
Northern rock sole	0	14	19	60	29	20	8
Southern rock sole	0	0	1	0	0	0	0
Kamchatka flounder	5	< 1	< 1	< 1	3	5	688
Greenland turbot	0	0	0	0	0	0	99
Flathead sole	0	< 1	14	5	2	5	0
Rex sole	0	0	0	0	5	9	4
Dover sole	0	0	0	0	0	0	0
English sole	0	0	0	0	0	0	0
Other flatfish	0	0	0	0	0	0	0
Skate unident.	6	5	0	0	12	2	172
Shark unident.	0	0	0	0	0	0	0
Yellow Irish lord	0	0	0	0	0	4	0
Other sculpins	< 1	< 1	12	0	6	4	< 1
Eelpout unident.	0	0	0	0	0	0	0
Other fish	0	< 1	< 1	< 1	0	0	239
Bairdi Tanner crab	< 1	0	0	0	0	0	0
Red king crab	0	0	0	0	0	0	0
Golden king crab	0	0	0	0	0	0	0
Northern shrimp	< 1	0	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0	0	0
Scallop unident.	0	< 1	0	< 1	5	< 1	0
Magistrate armhook squid	0	0	0	0	0	< 1	0
Sponges	0	1	12	4	16	2	0
Starfish	< 1	< 1	< 1	< 1	2	< 1	0
Soft coral	0	0	0	0	< 1	0	0
Stony coral unident.	0	< 1	0	0	< 1	0	0
Octopus	0	0	6	9	0	0	0
Snails	0	< 1	< 1	< 1	< 1	< 1	0
Other invertebrates	10	12	4	5	2	2	4
Total catch (kg)	152	87	204	180	194	135	1705



Fishing Log: F/V *Sea Storm*, Cruise 2006-01.

Haul number	254	255	257	258	259
Start date & time	08/07/06 11	08/07/06 13	08/08/06 08	08/08/06 11	08/08/06 13
Start latitude	N 5232.64	N 5233.59	N 5232.69	N 5238.36	N 5236.69
Start longitude	W 17222.54	W 17221.13	W 17220.28	W 17221.95	W 17226.03
End latitude	N 5232.90	N 5234.37	N 5232.22	N 5238.70	N 5237.25
End longitude	W 17223.72	W 17221.52	W 17219.39	W 17220.83	W 17225.16
Bottom depth (m)	205	223	205	422	381
Duration (minutes)	15.6	16.2	15	15.6	15.6
Distance fished (km)	1.441	1.548	1.38	1.442	1.476
Performance	1.1	0	2.4	0	0
Atka mackerel	3133	171	443	0	0
Pacific cod	237	137	96	0	0
Walleye pollock	1	0	114	0	6
Pacific ocean perch	560	820	649	< 1	2
Northern rockfish	172	3	47	0	0
Shortraker rockfish	0	0	0	3	0
Rougheye rockfish	0	0	0	0	0
Blackspotted rockfish	0	< 1	< 1	4	1
Shortspine thornyhead	0	0	0	0	6
Dusky rockfish	3	0	0	0	0
Dark rockfish	0	0	0	0	0
Other rockfish	0	0	0	0	< 1
Sablefish	7	0	0	0	21
Arrowtooth flounder	339	13	0	0	35
Pacific halibut	9	46	16	0	0
Northern rock sole	12	6	6	0	0
Southern rock sole	0	0	0	0	0
Kamchatka flounder	6	< 1	0	7	123
Greenland turbot	0	0	0	0	21
Flathead sole	0	0	0	0	0
Rex sole	0	0	0	7	10
Dover sole	0	0	0	0	3
English sole	0	0	0	0	0
Other flatfish	0	0	0	0	0
Skate unident.	127	71	99	0	87
Shark unident.	0	0	0	0	0
Yellow Irish lord	2	0	< 1	0	0
Other sculpins	2	11	< 1	4	3
Eelpout unident.	0	0	0	< 1	< 1
Other fish	0	2	14	2480	413
Bairdi Tanner crab	0	0	0	0	0
Red king crab	0	0	0	0	0
Golden king crab	6	6	1	0	< 1
Northern shrimp	0	0	0	0	0
Sidestripe shrimp	0	0	0	0	0
Scallop unident.	0	0	0	0	0
Magistrate armhook squid	< 1	0	0	0	< 1
Sponges	1	77	60	0	2
Starfish	< 1	2	< 1	0	< 1
Soft coral	0	4	5	0	2
Stony coral unident.	< 1	< 1	3	< 1	< 1
Octopus	0	0	0	0	0
Snails	0	< 1	< 1	0	0
Other invertebrates	< 1	4	17	< 1	3
Total catch (kg)	4620	1375	1575	2506	733



**Section 3****Ranked Catch Per Unit Effort by Species or Species Group**

- The summary listings of catch rates for selected species are presented as kilograms of catch per hectare (kg/ha) trawled.
- Average individual animal weight (kg).
- Vessel codes (147 = F/V *Gladiator* and 143 = F/V *Sea Storm*)
- Average bottom depth is in meters



Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Individual			Gear			Individual			Gear		
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)		
Atka	9,604	0.78	147	51	166	197	0.56	147	136	163		
mackerel	3,624	0.78	143	237	156	192	0.51	143	203	94		
	2,171	0.52	143	110	96	189	1.34	143	16	95		
	2,051	0.65	143	177	84	188	0.52	147	142	92		
	2,039	0.74	143	46	94	157	0.69	143	233	91		
	1,846	0.52	147	139	98	148	0.34	143	208	94		
	1,790	0.32	143	126	135	141	1.41	147	8	76		
	1,750	0.46	143	167	86	128	0.92	147	25	217		
	1,655	0.67	143	229	93	127	0.48	143	94	73		
	1,618	0.74	143	47	91	117	0.34	143	158	150		
	1,396	0.52	143	200	91	111	0.59	143	111	123		
	1,316	0.88	143	254	205	102	0.60	143	195	148		
	1,208	0.33	143	87	94	101	0.59	143	171	90		
	1,151	0.75	143	54	162	91	0.66	147	77	75		
	970	0.67	143	78	128	77	0.72	143	219	160		
	906	0.56	147	94	89	76	1.17	143	3	91		
	828	0.60	143	182	63	66	0.53	143	213	92		
	813	0.73	143	231	126	65	0.90	143	255	223		
	787	0.40	143	166	87	61	0.57	143	103	113		
	769	0.58	143	106	87	60	0.46	143	93	85		
	710	0.76	147	55	220	59	0.37	143	165	74		
	694	0.68	143	224	93	58	0.51	143	190	93		
	679	0.61	143	183	81	52	0.78	147	92	132		
	596	0.56	143	85	147	51	0.72	143	230	149		
	376	0.53	143	193	128	50	0.49	143	163	91		
	362	0.90	147	50	151	46	0.60	147	131	53		
	357	0.46	143	86	142	41	0.74	143	71	130		
	350	1.42	143	1	87	39	0.51	147	116	133		
	326		143	232	80	38	0.61	143	225	156		
	322	0.33	147	143	89	38	0.80	143	62	95		
	315	0.29	147	141	118	37	0.53	147	130	52		
	289	0.49	147	137	118	34	0.58	143	113	140		
	253	0.57	143	176	95	25	0.58	147	134	143		
	217	0.53	143	109	85	25	0.41	147	128	175		
	214	0.57	143	214	61	24	0.29	143	168	169		
	208	0.51	143	112	147	24	0.44	147	144	72		
	200	0.86	143	257	205	21	0.93	147	52	165		
Pacific	1,256	8.04	147	50	151	78	7.48	143	177	84		
cod	279	4.95	147	92	132	75	10.60	143	113	140		
	222	5.02	143	237	156	69	5.17	143	44	136		
	196	7.51	147	119	114	68	7.42	147	130	52		
	175	5.71	143	154	120	64	4.05	147	6	65		
	171	9.14	147	94	89	63	10.04	147	139	98		
	154	7.29	147	136	163	63	4.20	147	131	53		
	128	6.87	143	213	92	62	13.70	143	134	116		
	124	5.52	143	43	139	59	4.18	143	54	162		
	124	4.10	147	80	88	56	3.07	143	180	162		
	115	3.02	143	233	91	54	8.21	147	134	143		
	100	6.42	143	254	205	53	2.84	143	205	203		
	94	8.13	147	51	166	53	7.00	147	86	81		
	90	5.06	143	41	143	53	7.51	147	120	93		
	81	3.95	147	25	217	52	3.43	143	255	223		

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Individual			Gear			Individual			Gear		
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)		
Pacific	52	3.19	147	55	220	31	1.07	143	103	113		
cod	51	4.01	143	230	149	29	4.33	143	132	180		
(Cont.)	51	2.91	143	3	91	29	4.36	143	231	126		
	49	4.53	147	77	75	29	1.62	147	10	163		
	48	4.64	143	30	229	28	5.57	143	109	85		
	43	4.01	143	257	205	28	2.41	143	22	106		
	42	3.20	143	181	211	27	4.81	143	112	147		
	42	3.06	143	78	128	26	3.05	143	183	81		
	38	2.80	143	151	154	26	8.03	147	3	89		
	38	6.66	147	2		25	6.02	143	178	123		
	36	3.16	143	247	144	24	2.67	143	13	323		
	35	1.82	147	106	212	22	1.76	147	48	151		
	34	2.43	143	72	130	21	3.65	143	196	152		
	33	2.23	143	153	96	21	2.64	147	121	133		
	33	5.32	143	52	154	21	8.34	147	1	86		
	32	8.57	143	135	118	21	6.04	147	8	76		
	32	3.15	147	19	193	20	3.18	143	248	127		
Walleye	3,211	1.71	143	59	274	55	0.70	143	120	175		
pollock	2,027	1.70	147	52	165	51	1.35	143	257	205		
	1,330	1.70	147	87	230	47	1.03	143	210	163		
	1,325	1.60	147	50	151	45	1.46	143	253	244		
	940	1.79	147	90	218	45	1.90	143	85	147		
	715	1.89	143	2	143	43	1.27	147	36	250		
	292	1.66	143	189	228	40	1.29	147	127	236		
	153	1.02	143	18	110	36	1.31	143	53	211		
	121	1.28	147	91	261	36	1.59	147	18	262		
	105	0.84	143	6	92	35	1.40	143	172	258		
	100	1.84	143	179	274	33	1.23	143	157	270		
	91	1.37	143	211	249	29	1.40	143	55	358		
	76	0.80	147	8	76	28	1.35	143	238	271		
	70	0.86	143	1	87	28	1.44	143	235	262		
	69	1.61	143	175	251	27	1.53	143	173	344		
	69	1.11	143	180	162	27	1.21	143	186	275		
	63	1.74	143	168	169	27	1.00	143	209	162		
	63	0.84	147	5	98	23	1.26	143	60	321		
	60	0.49	143	83	87	22	1.37	143	17	315		
	57	1.47	147	58	257							
Pacific	4,616		143	204	245	1,289	0.84	147	135	281		
ocean	4,095	1.01	147	62	244	1,283	0.57	147	140	182		
perch	4,086	0.63	147	123	234	1,230	0.57	143	122	214		
	3,252	0.57	143	117	244	1,225	0.63	147	106	212		
	3,252	0.91	147	90	218	1,197	0.63	147	133	253		
	2,991	0.72	147	113	265	1,099	0.59	143	228	206		
	2,715	0.61	143	180	162	1,084	0.31	143	226	155		
	2,239	0.82	143	179	274	1,002	0.67	143	118	221		
	2,201	0.64	143	125	239	999	0.39	147	92	132		
	2,133	0.50	143	169	229	994	0.80	143	217	226		
	1,728	0.97	147	61	212	922	0.64	147	128	175		
	1,608	0.69	143	181	211	901	0.50	143	144	177		
	1,432	1.07	143	175	251	842	0.77	147	17	268		
	1,416	0.58	143	131	249	837	0.81	147	127	236		

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Individual			Gear			Individual			Gear		
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)		
Pacific	830	0.58	143	192	262	114	0.29	143	194	157		
ocean	807	0.73	147	81	229	107	0.43	147	100	225		
perch	801	0.98	143	189	228	104	0.79	143	65	322		
(Cont.)	755	0.94	147	134	143	101	0.66	143	68	179		
	725	0.33	147	141	118	96	1.05	143	174	272		
	708	1.07	143	31	255	93	0.74	143	89	282		
	635	0.75	143	157	270	93	0.60	143	75	170		
	634	0.42	147	101	223	91	0.27	147	30	160		
	623	0.26	147	116	133	90	0.32	143	193	128		
	612	0.71	143	168	169	85	0.54	143	126	135		
	611	0.29	143	196	152	85	0.76	147	18	262		
	601	0.87	147	136	163	85	0.62	147	49	313		
	556	0.67	143	227	222	84	0.98	143	21	373		
	499	0.31	147	74	151	83	0.50	147	67	114		
	493	0.95	143	172	258	82	0.69	147	19	193		
	491	0.49	147	47	267	74	0.64	147	39	328		
	469	1.03	147	87	230	73	0.29	143	198	132		
	455	0.54	143	108	223	73	0.71	143	59	274		
	441	0.91	143	215	154	73	0.60	147	73	255		
	434	0.35	143	225	156	72	0.83	143	238	271		
	424	0.81	143	85	147	69	0.18	143	164	95		
	392	0.43	143	152	173	69	0.27	143	107	176		
	386	0.78	147	21	232	66	0.98	147	91	261		
	352	0.70	143	205	203	53	0.70	143	159	175		
	346	0.44	147	117	164	51	0.46	143	243	213		
	340	0.28	147	97	151	49	0.24	143	197	92		
	326	0.85	147	66	214	47	0.33	143	139	150		
	324	0.88	143	235	262	46	0.24	147	43	163		
	322	0.45	143	53	211	43	0.86	143	17	315		
	317	0.75	143	28	305	40	0.15	147	63	202		
	313	1.24	143	255	223	35	0.45	143	112	147		
	293	0.87	143	257	205	34	0.53	143	61	251		
	274	0.49	143	69	228	34	0.68	147	58	257		
	253	0.95	143	27	341	33	0.41	143	151	154		
	252	0.66	147	36	250	32	0.74	143	73	238		
	235	1.41	143	254	205	32	0.27	147	108	147		
	201	1.00	143	80	253	29	0.89	143	185	269		
	196	0.29	143	158	150	29	0.94	143	211	249		
	193	0.93	143	102	231	28	0.77	143	237	156		
	184	0.84	143	219	160	28	0.32	147	75	174		
	182	0.31	147	115	178	27	0.46	143	48	238		
	149	0.73	147	129	246	27	0.38	143	64	146		
	141	0.88	143	88	278	22	1.01	143	113	140		
	141	0.57	147	111	340	22	0.77	147	55	220		
	135	0.60	147	76	167	21	0.07	143	249	107		
	118	0.78	147	126	218							
Northern	3,479	0.60	147	92	132	910	0.35	147	94	89		
rockfish	2,314	0.44	147	141	118	812	0.51	147	80	88		
	1,776	0.71	147	11	99	580	0.42	143	167	86		
	1,576	0.37	147	116	133	572	0.25	143	163	91		
	989	0.35	147	143	89	568	0.37	143	111	123		
	943	0.48	143	87	94	530	0.33	143	164	95		

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Northern rockfish (Cont.)	489	0.52	143	168	169	72	0.99	143	254	205
	450	0.39	143	166	87	72	0.15	147	125	97
	416	0.52	147	119	114	67	0.56	147	46	125
	360	0.28	147	144	72	55	0.44	143	148	118
	311	0.54	143	193	128	52	0.45	143	203	94
	310	0.37	147	115	178	47	0.84	143	85	147
	297	0.57	147	74	151	42	0.77	143	47	91
	282	0.36	143	165	74	36	0.51	147	121	133
	225	0.48	143	199	138	35	0.46	143	191	159
	210	0.49	143	126	135	35	0.39	147	108	147
	199	0.44	143	198	132	32	0.57	147	132	136
	177	0.58	147	137	118	31	0.45	143	207	97
	168	0.68	147	43	163	31	0.59	143	63	99
	153	0.52	143	170	123	26	0.44	147	117	164
	126	0.42	147	142	92	24	0.63	143	62	95
	104	0.53	143	221	126	23	0.55	147	75	174
	97	0.52	143	103	113	22	0.41	147	97	151
	96	0.33	143	130	121	21	1.01	143	257	205
	94	0.67	143	46	94	21	0.48	147	138	117
	78	0.48	143	139	150	20	0.20	143	153	96
	75	0.56	143	180	162					
Shortraker rockfish	98	2.10	147	40	409	13	3.63	143	123	383
	61	1.19	147	118	456	12	2.28	143	220	385
	47	1.87	143	21	373	11	2.46	143	236	380
	46	1.58	143	234	317	11	2.35	143	218	412
	38	4.25	143	174	272	10	1.64	147	47	267
	33	1.68	147	83	381	9	4.29	143	98	340
	33	1.49	147	82	367	9	3.84	143	95	402
	32	1.44	143	124	363	9	1.29	143	20	382
	31	1.50	143	74	383	8	1.39	143	121	319
	24	1.54	143	240	315	7	1.74	143	160	389
	24		143	204	245	7	1.75	143	82	432
	23	0.99	147	49	313	7	3.69	147	109	357
	22	6.27	143	13	323	6	2.42	143	216	391
	21	3.70	143	100	458	6	2.08	143	65	322
	20	1.23	143	239	418	6	4.91	147	69	318
	20	1.30	147	112	379	5	3.25	143	143	408
	17	3.15	143	187	458	5	3.68	143	81	387
	17	20.41	143	17	315	5	2.64	147	23	443
	16	3.54	143	175	251	5	1.75	147	56	411
	15	5.46	143	97	347	5	3.09	147	53	459
	15	1.80	143	127	320	5	1.63	147	59	365
Rougheye rockfish	14	1.64	143	97	347	2	1.38	143	21	373
	9	4.20	143	17	315	2	1.78	147	93	343
	7	1.37	143	13	323	2	1.69	147	22	406
	7	0.61	143	11	191	1	1.37	143	239	418
	4	0.57	143	2	143	1	1.50	143	218	412
	4	2.00	147	39	328	1	1.43	143	96	382
	3	1.37	143	101	328	1	1.16	143	50	462
	3	1.11	143	20	382	1	2.25	143	25	398
	3	1.27	147	49	313	1	2.25	143	30	229



Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Blackspotted rockfish	171	1.73	143	97	347	13	1.84	143	175	251
	126	1.25	147	49	313	12	1.94	143	124	363
	54	1.69	143	98	340	12	1.35	147	40	409
	41	1.57	143	101	328	10	1.84	143	96	382
	33	1.04	147	47	267	10	1.12	143	65	322
	31	1.40	147	22	406	10	1.27	147	83	381
	31	1.82	147	39	328	9	2.49	143	127	320
	26	1.57	147	69	318	9	1.26	143	13	323
	20	1.17	143	234	317	9	1.44	147	82	367
Shortspine thornyhead	166	0.85	143	124	363	19	0.35	147	110	401
	152	0.88	143	125	239	18	0.33	143	160	389
	68	0.45	147	109	357	17	0.43	143	156	358
	57	0.78	143	127	320	17	0.79	143	186	275
	45	0.58	147	99	383	17	0.43	143	187	458
	44	0.44	143	123	383	17	0.38	143	216	391
	43	0.68	143	111	123	17	0.25	147	111	340
	41	0.25	143	27	341	15	0.30	143	117	244
	29	0.48	143	185	269	15	0.31	143	82	432
	29	0.44	143	137	413	15	1.31	147	93	343
	29	0.43	143	81	387	14	0.32	143	88	278
	28	0.57	143	115	382	14	0.57	143	143	408
	26	0.48	143	155	321	14	0.38	143	220	385
	25	0.45	143	65	322	14	0.44	143	17	315
	25	0.61	147	117	164	13	0.78	143	96	382
	24	0.82	143	161	341	13	0.44	143	21	373
	24	0.66	143	131	249	13	0.57	143	20	382
	22	0.48	143	114	364	12	0.99	143	234	317
	21	0.62	143	121	319	12	2.12	143	228	206
	21	0.45	143	116	415	12	0.51	147	113	265
21	0.44	147	98	484	11	0.22	143	73	238	
20	0.31	143	89	282	10	0.84	143	100	458	
20	1.92	143	227	222	9	0.29	143	218	412	
19	0.35	143	138	410	9	1.41	143	95	402	
Dusky rockfish	317	1.34	147	80	88					
Dark rockfish	42	0.87	143	163	91	7	0.95	143	164	95
	37	0.91	143	166	87	4	1.17	147	80	88
	16	1.03	147	142	92	3	0.90	143	165	74
Other rockfish	3	0.48	147	92	132					
Sablefish	278	2.04	147	90	218	35	2.81	147	53	459
	65	2.43	143	253	244	26	3.74	147	56	411
	53	3.25	143	234	317	24	2.23	147	61	212
	42	2.53	147	81	229	23	3.39	143	240	315
	42	1.91	147	57	405	17	2.48	147	84	181
40	2.85	147	87	230	14	2.02	143	36	254	

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Arrowtooth	1,740	2.13	143	31	255	39	1.53	147	106	212
flounder	1,119	1.91	143	32	319	39	0.97	147	35	234
	934	1.95	143	21	373	38	1.86	143	131	249
	807	1.28	143	35	277	37	0.40	147	5	98
	792	1.13	143	36	254	37	1.19	147	38	204
	463	1.47	143	25	398	36	0.32	143	246	113
	419	1.41	143	20	382	36	1.55	143	13	323
	217	1.41	143	34	279	35	0.51	143	245	91
	184	0.95	147	7	109	34	1.45	143	140	187
	146	0.64	143	22	106	34	2.00	143	122	214
	142	0.97	143	254	205	32	2.09	143	179	274
	125	2.00	147	34	372	32	1.14	143	251	137
	115	1.78	143	168	169	32	1.32	143	64	146
	115	1.76	143	152	173	31	0.43	143	19	87
	110	1.35	143	253	244	31	0.95	143	17	315
	107	0.47	143	2	143	31	1.04	147	103	275
	100	1.64	143	27	341	27	1.50	143	236	380
	98	2.06	143	175	251	27	4.36	143	216	391
	86	1.63	143	33	332	27	0.55	147	4	97
	85	0.95	147	18	262	26	1.02	143	252	141
	77	0.77	143	30	229	26	0.77	143	250	109
	74	1.75	143	235	262	26	1.36	143	202	200
	64	0.93	147	105	164	25	3.12	143	97	347
	63	0.94	147	67	114	25	1.79	143	205	203
	62	2.67	143	117	244	25	0.51	147	63	202
	59	1.66	143	174	272	24	1.85	147	32	364
	56	0.73	147	85	165	23	1.42	147	23	443
	56	1.56	147	90	218	22	3.81	143	155	321
	54	0.37	143	11	191	22	0.22	143	6	92
	54	0.52	143	7	90	21	1.84	143	133	227
	52	0.55	143	18	110	21	2.06	143	217	226
	50	0.81	143	29	228	21	3.41	143	234	317
	49	1.95	143	144	177	21	3.22	147	83	381
	48	0.95	147	22	406	21	1.56	147	81	229
	46	1.01	147	37	206	21	3.51	147	129	246
	45	0.91	147	6	65	21	0.89	147	61	212
	44	0.83	147	65	112	20	0.74	143	247	144
Pacific	67	3.14	143	41	143	29	8.79	147	16	106
halibut	51	11.15	143	21	373	28	23.74	147	23	443
	50	11.40	143	16	95	27	3.00	143	177	84
	50	1.79	147	9	46	26	20.32	147	108	147
	42	13.13	143	55	358	25	3.02	143	231	126
	41	52.11	143	94	73	25	3.20	143	40	220
	40	4.08	143	42	118	23	0.71	143	3	91
	37	5.74	143	30	229	22	8.36	143	241	85
	36	1.28	147	6	65	22	25.07	143	11	191
	35	8.39	143	20	382	21	6.11	147	50	151
	33	5.29	147	38	204	20	1.84	143	12	66
	31	36.71	143	236	380	19	4.13	143	246	113
	31	8.87	143	153	96	19	4.27	143	70	82
	30	24.13	147	104	186	19	48.30	143	83	87
	29	10.56	143	132	180	19	1.83	143	43	139

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Individual			Gear			Individual			Gear		
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)		
Pacific	19	6.81	147	25	217	9	2.31	143	36	254		
halibut	18	3.77	143	208	94	9	1.21	143	1	87		
(Cont.)	18	10.48	147	48	151	9	0.91	147	131	53		
	17	9.17	143	255	223	8	9.03	143	72	130		
	16	12.74	143	199	138	8	9.09	143	243	213		
	16	2.13	143	44	136	8	2.80	143	183	81		
	16	25.63	143	58	337	8	2.17	143	79	133		
	16	1.63	143	8	92	8	3.97	147	67	114		
	16	3.46	143	5	85	8	3.10	147	14	125		
	16	1.95	147	7	109	8	1.61	147	8	76		
	16	11.86	147	43	163	7	1.48	143	200	91		
	15	4.02	143	178	123	7	16.94	143	148	118		
	15	3.17	143	47	91	7	4.02	143	244	90		
	15	16.64	143	33	332	7	16.44	143	257	205		
	15	4.74	147	78	95	7	1.78	143	203	94		
	15	11.85	147	119	114	7	1.45	147	5	98		
	15	3.73	147	12	95	7	3.91	147	30	160		
	14	19.03	143	57	362	6	8.22	143	176	95		
	14	3.86	143	15	94	6	14.12	143	64	146		
	14	2.37	143	2	143	6	4.14	143	13	323		
	14	2.70	143	22	106	6	1.97	147	46	125		
	13	5.31	143	249	107	5	2.01	143	242	95		
	13	3.45	143	250	109	5	2.05	143	206	93		
	13	16.94	143	134	116	5	6.53	143	170	123		
	13	6.58	143	37	192	5	14.12	143	124	363		
	13	5.37	143	54	162	5	1.58	143	109	85		
	13	1.35	147	28	92	5	11.27	143	75	170		
	13	5.35	147	65	112	5	2.49	143	19	87		
	12	5.77	143	165	74	5	0.90	143	4	95		
	12	4.69	143	136	87	5	6.36	143	17	315		
	12	2.81	143	78	128	5	11.65	147	106	212		
	12	15.49	143	105	162	5	3.13	147	72	90		
	12	8.49	143	48	238	5	5.45	147	120	93		
	12	2.66	143	46	94	5	1.13	147	77	75		
	12	2.64	143	7	90	5	0.89	147	130	52		
	12	16.95	147	129	246	4	4.47	143	254	205		
	11	5.05	143	233	91	4	9.16	143	142	77		
	11	7.39	143	139	150	4	8.84	143	133	227		
	11	1.90	143	9	98	4	1.38	143	182	63		
	11	1.87	147	79	45	4	0.85	143	214	61		
	11	10.44	147	74	151	4	4.91	143	207	97		
	11	14.29	147	122	168	4	8.22	143	49	468		
	10	11.65	143	171	90	4	9.83	143	60	321		
	10	10.34	143	223	149	4	1.40	143	63	99		
	10	4.25	143	230	149	4	7.35	143	51	148		
	10	8.02	143	52	154	4	2.95	143	14	116		
	10	25.63	143	56	364	4	1.05	143	24	32		
	10	2.14	143	6	92	4	10.18	147	136	163		
	10	23.69	143	28	305	4	9.83	147	71	284		
	10	20.12	147	97	151	4	2.44	147	68	121		
	10	2.81	147	11	99	4	8.84	147	17	268		
	9	3.14	143	77	90	4	2.12	147	4	97		
	9	2.82	143	62	95	4	2.45	147	44	99		

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Northern					Southern				
	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Northern rock sole	381	0.57	143	84	93	35	0.55	143	172	258
	215	0.41	143	203	94	35	0.82	143	180	162
	158	0.29	147	96	84	35	0.36	143	209	162
	115	0.59	147	85	165	33	0.21	143	197	92
	107	0.41	143	221	126	31	0.87	143	241	85
	87	0.39	143	198	132	31	0.54	143	83	87
	70	0.46	143	223	149	28	0.48	143	171	90
	69	0.37	147	86	81	28	0.97	143	178	123
	68	0.42	143	142	77	28	0.24	143	62	95
	67	0.33	143	106	87	28	0.24	147	131	53
	64	0.63	143	177	84	27	0.37	143	202	200
	57	0.52	143	222	127	27	0.52	143	18	110
	56	0.29	143	206	93	27	0.91	147	90	218
	56	0.55	143	229	93	27	0.37	147	132	136
	51	0.28	143	208	94	26	0.75	143	250	109
	51	0.27	143	110	96	25	0.27	143	63	99
	51	0.72	143	23	86	25	0.41	147	67	114
	48	0.28	143	109	85	24	0.40	143	151	154
	47	0.45	143	145	87	24	0.22	143	214	61
	47	0.28	147	44	99	23	0.44	143	77	90
	41	0.51	143	233	91	22	0.28	143	154	120
	41	0.35	147	78	95	22	0.34	147	68	121
	39	0.29	143	150	121	21	0.34	143	141	118
	39	0.20	143	184	107	21	0.30	143	245	91
	39	0.27	143	207	97	21	0.45	143	215	154
39	0.33	143	76	114	21	0.30	143	210	163	
38	0.59	147	84	181	20	0.53	147	2	NA	
37	0.40	143	242	95						
Southern rock sole	76	0.76	147	9	46	9	0.73	143	23	86
	57	0.62	143	12	66	9	0.51	143	1	87
	34	0.64	147	6	65	9	0.96	147	15	118
	33	0.43	143	16	95	6	0.72	143	62	95
	27	0.48	143	15	94	5	0.86	143	22	106
	25	0.49	147	8	76	4	0.73	143	245	91
	19	0.62	143	19	87	4	0.86	143	63	99
	18	0.64	143	18	110	4	0.64	143	5	85
	18	0.53	147	11	99	4	0.66	147	14	125
	17	0.52	147	12	95	4	1.03	147	44	99
	13	0.54	143	7	90					
Kamchatka flounder	652	1.63	143	25	398	74	3.18	147	56	411
	312	1.24	143	253	244	53	2.96	143	100	458
	257	2.79	143	173	344	47	2.32	143	259	381
	233	2.18	147	89	415	41	3.84	147	129	246
	216	2.11	143	236	380	30	2.47	143	95	402
	134	3.21	147	23	443	26	6.12	143	240	315
	133	1.41	147	110	401	24	1.45	143	123	383
	101	1.30	143	32	319	24	2.54	147	59	365
80	3.73	147	22	406						

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Greenland turbot	301	3.00	147	53	459	33	3.08	143	123	383
	217	6.38	147	56	411	27	4.91	147	22	406
	46	3.13	147	23	443	23	3.06	147	59	365
	45	4.97	143	253	244	22	6.89	143	125	239
	34	10.72	143	100	458	17	3.00	143	25	398
Flathead sole	62	0.14	143	11	191	7	0.83	147	68	121
	61	0.13	143	10	188	7	0.27	147	104	186
	41	0.30	143	2	143	6	0.11	143	147	138
	27	0.60	147	12	95	6	0.63	143	249	107
	19	0.55	147	6	65	6	0.28	143	210	163
	16	0.22	147	105	164	6	0.73	143	67	157
	15	0.27	143	146	158	6	0.26	143	14	116
	14	0.69	143	145	87	6	0.60	143	20	382
	14	0.18	143	245	91	6	0.16	147	103	275
	14	0.62	143	21	373	5	0.45	147	124	108
	13	0.19	147	101	223	4	0.33	143	152	173
	12	0.14	147	122	168	4	0.47	143	142	77
	10	0.16	147	102	228	4	0.77	143	205	203
	9	0.22	143	141	118	4	1.41	143	202	200
	9	0.55	143	153	96	4	0.38	143	117	244
	9	0.21	143	6	92	4	0.66	143	16	95
	9	0.54	147	67	114	4	0.58	143	13	323
	8	0.57	143	154	120	4	0.49	147	121	133
	8	0.38	143	150	121	4	0.12	147	13	109
	8	0.65	143	12	66	4	1.07	147	9	46
	8	0.43	143	1	87	4	0.46	147	8	76
Rex sole	171	0.62	143	21	373	15	0.60	147	143	89
	103	0.60	143	20	382	14	0.61	143	14	116
	91	0.65	143	2	143	14	0.55	147	59	365
	62	0.60	143	17	315	13	0.50	143	146	158
	42	0.56	143	22	106	12	0.64	143	221	126
	40	0.64	143	155	321	12	0.56	143	80	253
	28	0.86	147	90	218	12	0.64	147	103	275
	24	0.60	143	19	87	12	0.56	147	10	163
	23	0.76	143	179	274	11	0.93	143	212	347
	22	0.58	147	102	228	11	0.48	143	18	110
	21	0.82	143	152	173	11	0.54	147	69	318
	17	0.65	143	156	358	10	0.79	143	174	272
	17	0.63	143	13	323	10	0.51	143	131	249
	17	0.62	147	101	223	10	0.57	143	65	322
	15	0.52	143	88	278	9	0.82	143	101	328
	15	0.65	143	211	249	9	0.77	143	220	385
	15	0.52	143	210	163	9	0.37	143	245	91
	15	0.65	143	209	162					
Dover sole	29	1.20	143	81	387	3	2.74	143	125	239
	22	0.93	143	20	382	3	1.59	147	117	164
	14	0.87	143	21	373	3	1.03	147	113	265
	6	0.92	143	17	315	2	0.85	143	168	169
	5	0.84	143	13	323	2	0.57	143	84	93
	4	0.79	143	88	278	2	1.32	143	117	244

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Dover sole (Cont.)	2	0.87	147	140	182					
English sole	2	0.65	143	2	143					
Other flatfish	2	0.98	147	9	46					
Skate	170	11.71	143	215	154	20	6.97	143	78	128
unident.	135	6.20	147	50	151	20	9.19	143	47	91
	133	5.93	147	51	166	19	14.99	143	231	126
	87	8.17	143	128	99	19	9.45	143	46	94
	78	2.49	143	253	244	18	5.20	143	30	229
	69	1.66	147	53	459	18	5.28	147	65	112
	66	10.52	143	229	93	17	1.36	143	100	458
	58	4.86	143	55	358	17	2.18	143	126	135
	57	5.69	147	116	133	17	4.65	143	125	239
	54	11.59	143	254	205	17	4.20	143	85	147
	52	3.17	147	56	411	17	13.48	143	113	140
	52	2.71	147	52	165	16	1.87	143	235	262
	48	9.68	143	169	229	16	1.29	143	234	317
	46	7.97	143	52	154	15	0.33	147	32	364
	46	7.31	143	61	251	14	3.78	143	241	85
	45	9.94	143	257	205	14	6.36	143	1	87
	45	9.01	147	38	204	14	11.21	147	107	145
	43	4.48	143	56	364	13	10.56	143	228	206
	40	7.72	143	180	162	13	9.96	143	87	94
	40	2.75	143	57	362	13	4.27	143	31	255
	40	8.45	147	55	220	13	4.06	147	117	164
	34	5.45	143	259	381	13	9.51	147	128	175
	34	12.34	143	54	162	13	14.78	147	15	118
	32	6.06	143	129	109	12	9.37	143	171	90
	32	3.35	147	87	230	12	3.33	143	130	121
	30	9.21	143	86	142	12	2.66	143	80	253
	30	11.35	143	42	118	12	9.56	147	104	186
	30	1.61	143	58	337	12	5.96	147	81	229
	30	10.09	147	92	132	12	12.73	147	16	106
	29	9.88	143	233	91	11	13.26	143	104	123
	27	8.92	143	255	223	11	12.79	143	201	84
	27	2.41	143	25	398	11	8.63	143	107	176
	26	7.32	147	43	163	11	2.72	143	81	387
	25	6.73	143	53	211	11	4.98	143	51	148
	25	0.65	143	39	408	11	11.90	143	36	254
	24	19.01	143	41	143	11	7.70	147	30	160
	24	5.00	143	60	321	10	12.85	143	91	89
	23	8.46	143	44	136	10	4.42	143	33	332
	23	13.24	143	4	95	10	7.08	147	133	253
	22	10.62	143	167	86	10	3.79	147	132	136
	22	10.36	143	112	147	9	6.99	143	90	175
	22	15.34	147	9	46	9	5.77	147	78	95
	20	3.30	143	240	315					

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Shark	21	14.89	143	20	382	1	1.56	143	237	156
unident.	6	13.06	143	11	191	1	2.26	147	81	229
	1	2.02	143	176	95	0	1.18	143	143	408
	1	1.50	143	229	93	0	1.22	143	230	149
Yellow	46	0.76	143	3	91	7	1.20	143	52	154
Irish	37	1.46	143	94	73	7	0.76	147	43	163
lord	25	0.61	143	233	91	6	0.34	143	104	123
	25	0.88	143	54	162	6	0.58	143	231	126
	24	0.61	143	83	87	6	0.68	143	84	93
	21	0.76	143	166	87	6	0.57	143	66	141
	19	0.83	143	5	85	6	1.36	147	142	92
	19	1.14	147	2		6	0.79	147	6	65
	16	0.39	143	47	91	5	0.76	143	229	93
	16	0.75	143	4	95	5	0.69	143	75	170
	15	0.38	143	62	95	5	0.67	143	68	179
	15	0.61	143	8	92	5	0.49	147	28	92
	14	0.39	143	223	149	5	0.48	147	46	125
	13	0.77	143	93	85	4	0.38	143	198	132
	13	0.77	143	46	94	4	0.64	143	76	114
	12	0.63	143	241	85	4	0.41	143	64	146
	12	0.71	143	61	251	4	0.51	147	78	95
	11	0.89	147	3	89	4	0.67	147	4	97
	10	0.31	147	132	136	4	0.56	147	65	112
	9	0.80	143	72	130	3	0.32	143	176	95
	9	0.82	143	91	89	3	0.61	143	244	90
	9	0.83	147	39	328	3	0.54	143	219	160
	8	0.65	143	41	143	3	0.57	143	48	238
	8	1.04	143	51	148	3	0.46	143	53	211
	8	0.67	147	7	109	3	0.73	143	9	98
	8	0.80	147	52	165	3	0.39	147	144	72
	7	0.35	143	203	94	3	0.88	147	50	151
	7	0.40	143	230	149	3	0.66	147	51	166
Other	32	0.09	143	108	223	7	2.28	143	106	87
sculpins	25	0.23	147	47	267	7	0.22	143	58	337
	22	1.46	147	43	163	7	0.99	147	96	84
	19	0.13	147	39	328	7	2.12	147	6	65
	15	0.15	147	23	443	7	0.07	147	49	313
	13	0.07	143	162	190	6	0.10	143	159	175
	13	0.28	143	235	262	6	2.61	143	203	94
	13	1.20	143	87	94	6	0.11	143	192	262
	13	0.15	143	27	341	6	0.12	143	234	317
	13	0.13	147	140	182	6	0.24	143	84	93
	11	0.05	143	157	270	6	0.16	143	107	176
	11	0.24	143	181	211	6	0.11	143	60	321
	11	1.01	143	3	91	6	0.14	143	28	305
	11	0.26	147	81	229	6	0.07	147	135	281
	10	0.07	143	80	253	6	0.12	147	95	139
	10	0.10	143	45	325	6	0.09	147	63	202
	9	0.15	147	127	236	5	0.44	143	129	109
	7	9.20	143	144	177	5	3.12	143	249	107
	7	1.47	143	244	90	5	0.05	143	189	228

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Individual			Gear			Individual			Gear		
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)		
Other	5	5.07	143	214	61	3	0.12	147	93	343		
sculpins	5	0.16	143	61	251	3	0.18	147	91	261		
(Cont.)	5	0.35	143	13	323	3	0.11	147	19	193		
	5	0.07	147	133	253	3	0.06	147	40	409		
	5	0.19	147	128	175	2	2.15	143	206	93		
	5	0.06	147	22	406	2	0.05	143	89	282		
	5	0.52	147	35	234	2	0.07	143	88	278		
	5	0.12	147	62	244	2	0.10	143	172	258		
	5	0.07	147	56	411	2	0.13	143	168	169		
	4	0.16	143	104	123	2	0.17	143	167	86		
	4	0.10	143	86	142	2	0.04	143	161	341		
	4	3.42	143	135	118	2	5.10	143	151	154		
	4	0.53	143	255	223	2	5.65	143	142	77		
	4	0.10	143	227	222	2	0.08	143	133	227		
	4	2.81	143	70	82	2	0.13	143	125	239		
	4	0.08	143	83	87	2	4.12	143	231	126		
	4	0.11	143	65	322	2	0.18	143	225	156		
	4	0.23	143	56	364	2	0.16	143	258	422		
	4	1.08	143	2	143	2	1.41	143	252	141		
	4	0.15	143	29	228	2	1.37	143	245	91		
	4	0.09	143	26	325	2	0.04	143	186	275		
	4	4.96	147	121	133	2	0.22	143	228	206		
	4	0.93	147	119	114	2	0.04	143	216	391		
	4	3.39	147	15	118	2	5.41	143	146	158		
	4		147	18	262	2	0.44	143	128	99		
	4	1.40	147	4	97	2	4.83	143	117	244		
	4	0.29	147	66	214	2	0.16	143	53	211		
	4	0.16	147	36	250	2	0.13	143	69	228		
	3	2.43	143	200	91	2	0.06	143	25	398		
	3	0.11	143	175	251	2	0.08	143	33	332		
	3	3.21	143	251	137	2	0.87	143	1	87		
	3	0.21	143	238	271	2	0.76	147	78	95		
	3	0.10	143	217	226	2	1.59	147	86	81		
	3	0.31	143	219	160	2	0.05	147	73	255		
	3	0.09	143	240	315	2	0.05	147	126	218		
	3	0.18	143	196	152	2	1.33	147	104	186		
	3	0.10	143	85	147	2	1.25	147	13	109		
	3	0.31	143	75	170	2	2.82	147	7	109		
	3	0.52	143	48	238	2	4.55	147	44	99		
	3	0.24	143	57	362	2	0.07	147	61	212		
	3	6.26	143	62	95	2	0.10	147	58	257		
	3	3.06	143	6	92	2	0.12	147	55	220		
	3	1.52	143	22	106	2	1.92	147	8	76		
Eelpout	3	1.24	143	212	347	1	1.23	143	95	402		
unident.	3	0.67	143	234	317	1	1.35	143	124	363		
	2	0.39	147	42	463	1	0.16	143	39	408		
	1	0.93	143	101	328	1	1.00	143	55	358		
	1	0.41	143	174	272	1	0.28	147	122	168		
	1	0.78	143	173	344	1	0.45	147	118	456		
	1	0.13	143	220	385	1	0.62	147	98	484		
	1	0.13	143	187	458	1	0.13	147	57	405		



Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Other	4108	4.86	147	53	459	45	0.57	147	99	383
fish	1077	4.33	143	173	344	44	0.44	143	123	383
	995	3.97	143	258	422	42	0.94	143	220	385
	200	3.73	147	83	381	41	0.25	143	27	341
	177	3.54	143	100	458	38	0.56	143	81	387
	170	3.14	143	239	418	37	4.39	147	42	463
	170	2.79	147	118	456	36	0.59	143	138	410
	166	0.85	143	124	363	36	1.58	147	112	379
	160	4.54	143	259	381	35	1.26	147	128	175
	160	1.69	143	39	408	34	0.66	143	115	382
	152	0.88	143	125	239	29	0.47	143	185	269
	150	4.23	147	41	455	28	0.63	147	117	164
	135	2.09	143	218	412	27	0.48	143	155	321
	116	1.10	143	111	123	26	0.73	147	57	405
	108	1.97	143	253	244	25	0.51	143	116	415
	107	1.54	147	98	484	25	0.45	143	65	322
	103	1.22	143	137	413	25	0.59	147	140	182
	95	1.49	143	82	432	24	0.82	143	161	341
	84	1.07	147	110	401	24	0.65	143	131	249
	69	3.65	147	92	132	22	1.31	143	234	317
	68	0.46	147	109	357	22	0.63	143	121	319
	62	1.36	147	116	133	22	0.48	143	114	364
	61	3.60	147	82	367	21	0.31	143	89	282
	57	0.78	143	127	320	20	1.87	143	227	222
	57	1.07	143	187	458	20	1.06	143	74	383
	56	3.77	147	59	365	20	0.29	147	111	340
	55	3.87	143	98	340	20	3.57	147	89	415
	47	3.56	143	95	402	20	4.34	147	40	409
Bairdi	8	0.46	143	2	143	1	0.13	143	14	116
tanner	2	0.09	143	11	191	1	0.70	143	3	91
crab	1	0.41	143	147	138	1	0.10	143	22	106
	1	0.18	143	246	113					
Red	1	2.74	143	36	254					
king										
crab										
Golden	10	0.46	143	25	398	3	1.23	147	136	163
king	8	0.99	143	86	142	3	1.12	147	25	217
crab	7	1.79	143	39	408	2	1.45	143	254	205
	6	1.66	147	34	372	2	1.37	143	169	229
	5	0.59	143	27	341	2	2.26	143	159	175
	4	0.89	143	50	462	2	0.54	143	255	223
	4	0.98	147	133	253	2	0.94	143	236	380
	4	0.67	147	23	443	2	2.42	143	121	319
	4	1.32	147	63	202	2	1.71	143	48	238
	3	1.40	143	172	258	2	1.31	143	61	251
	3	2.18	143	125	239	2	0.45	143	28	305
	3	0.96	143	240	315	2	1.21	143	26	325
	3	2.46	143	117	244	2	0.24	147	118	456
	3	2.41	143	32	319	2	1.84	147	117	164
	3	1.06	147	127	236	2	2.27	147	126	218

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	Individual			Gear			Individual			Gear						
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	
Golden king crab (Cont.)	2	2.30	147	101	223	1	2.92	143	137	413	1	1.75	143	85	147	
	2	0.98	147	91	261	1	0.68	143	124	363	1	1.68	143	122	214	
	2	1.19	147	129	246	1	1.12	143	118	221	1	1.12	147	135	281	
	2	1.30	147	128	175	1	1.12	147	135	281	1	1.23	147	100	225	
	2	0.97	147	39	328	1	1.12	143	118	221	1	1.23	147	100	225	
	2	1.32	147	35	234	1	1.12	143	118	221	1	0.54	147	98	484	
	2	1.29	147	62	244	1	0.93	143	49	468	1	0.97	147	94	89	
	2	1.16	147	32	364	1	2.12	143	40	220	1	0.97	147	94	89	
	2	0.46	147	56	411	1	2.12	143	40	220	1	1.52	147	115	178	
	2	2.05	147	55	220	1	2.92	143	55	358	1	0.73	147	22	406	
	2	1.18	147	53	459	1	2.03	147	87	230	1	0.91	147	19	193	
	1	0.92	143	97	347	1	0.85	147	113	265	1	1.10	147	40	409	
	1	1.34	143	89	282	1	1.12	147	135	281	1	1.10	147	40	409	
	1	2.52	143	88	278	1	1.12	147	135	281	1	0.51	147	38	204	
	1	0.89	143	175	251	1	1.23	147	100	225	1	1.05	147	37	206	
	1	1.58	143	174	272	1	0.54	147	98	484	1	1.05	147	37	206	
	1	1.64	143	158	150	1	0.97	147	94	89	1	1.67	147	61	212	
	1	1.24	143	156	358	1	1.52	147	115	178						
	1	2.91	143	133	227	1	0.73	147	22	406						
	1	1.22	143	257	205	1	0.91	147	19	193						
1	3.82	143	185	269	1	1.10	147	40	409							
1	2.88	143	215	154	1	0.51	147	38	204							
Northern shrimp	1	0.01	143	10	188											
Sidestripe shrimp	0	0.02	143	13	323	0	0.02	143	21	373						
	0	0.03	143	11	191	0	0.02	143	20	382						
	0	0.01	143	10	188	0	0.02	147	82	367						
	0	0.02	143	17	315	0	0.03	147	17	268						
	0	0.01	143	22	106											
Scallop unident.	12	0.04	143	202	200	2	0.05	147	67	114						
	6	0.05	143	4	95	1	0.02	143	103	113						
	6	0.04	143	3	91	1	0.04	143	246	113						
	2	0.04	143	244	90	1	0.05	143	70	82						
	2	0.03	143	251	137	1	0.03	143	76	114						
Magistrate armhook squid	10	0.46	147	111	340	2	0.45	143	212	347						
	9	0.51	147	113	265	2	0.37	143	21	373						
	7	0.39	143	125	239	2	0.45	147	112	379						
	7	0.50	143	116	415	2	0.16	147	69	318						
	6	0.55	143	192	262	2	0.33	147	59	365						
	5	0.56	147	99	383	1	0.33	143	89	282						
	5	0.34	147	17	268	1	0.53	143	161	341						
	4	0.61	143	115	382	1	0.26	143	179	274						
	3	0.50	143	156	358	1	0.12	143	221	126						
	3	0.37	143	59	274	1	0.24	143	220	385						
	3	0.47	147	22	406	1	0.35	143	239	418						
	2	0.45	143	88	278	1	0.37	143	186	275						
	2	0.46	143	157	270	1	0.50	143	185	269						
	2	0.51	143	143	408	1	0.45	143	211	249						
	2	0.32	143	138	410	1	0.48	143	96	382						

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Magistrate	1	0.89	143	123	383	1	0.17	143	20	382
armhook	1	0.43	143	117	244	1	0.31	147	110	401
squid	1	0.43	143	114	364	1	0.55	147	135	281
(Cont.)	1	0.42	143	81	387	1	0.09	147	94	89
	1	0.51	143	80	253	1	0.38	147	89	415
	1	0.38	143	69	228	1	0.36	147	10	163
	1	0.32	143	60	321	1	0.22	147	60	146
	1	0.27	143	13	323	1	0.51	147	49	313
	1	0.28	143	17	315					
Sponges	652		143	232	80	56	23.49	147	80	88
	419		143	111	123	52		147	35	234
	398		143	46	94	50		143	52	154
	339		143	83	87	49	38.33	147	93	343
	329		147	118	456	46		147	39	328
	253		143	233	91	45		147	47	267
	207		147	127	236	44		143	41	143
	192		147	43	163	43		143	29	228
	162		143	195	148	42		143	166	87
	162		147	30	160	40		143	196	152
	159		143	5	85	40		143	43	139
	154		143	132	180	39		143	191	159
	151		143	91	89	39		143	56	364
	147		147	94	89	39		147	111	340
	141		147	129	246	39		147	142	92
	130		143	94	73	39		147	38	204
	124		143	86	142	36		143	108	223
	124		147	2	NA	36		143	57	362
	118		143	124	363	31		143	199	138
	113		143	93	85	30		143	28	305
	112		147	92	132	29		143	255	223
	110		143	47	91	29		143	51	148
	109	132.26	147	112	379	28		143	183	81
	109		147	37	206	27		143	257	205
	101		147	139	98	27		143	112	147
	99		143	54	162	27		143	53	211
	95		147	19	193	27	3.66	147	135	281
	93		143	61	251	27		147	128	175
	87		147	63	202	25		147	49	313
	82		147	36	250	24		143	234	317
	76		147	1	86	24		143	230	149
	75		147	3	89	23		143	113	140
	71	164.65	143	3	91	20		143	133	227
	65		143	48	238	20		143	127	320
	63		147	23	443					
Starfish	6	2.54	147	6	65	2	0.11	143	203	94
	5	0.17	143	21	373	2	0.06	143	5	85
	4	0.18	143	20	382	1	0.07	143	233	91
	3	0.04	143	86	142	1	0.03	143	191	159
	3	0.07	143	4	95	1	0.46	143	92	134
	3	0.06	143	3	91	1	0.07	143	140	187
	2	0.04	143	195	148	1	0.29	143	244	90

Principal species CPUE and average individual weight by vessel, haul and depth during the 2006 Biennial Aleutian Islands Bottom Trawl Survey. Stations are listed in order of CPUE (descending) for each species.

Species	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)	CPUE (kg/ha)	Individual weight (kg)	Vessel	Haul	Gear depth (m)
Starfish	1	0.12	143	223	149	1	0.07	143	51	148
(Cont.)	1	0.07	143	255	223	1	0.04	143	61	251
	1	0.07	143	251	137	1	0.04	143	54	162
	1	0.05	143	219	160	1	0.05	143	8	92
	1	0.09	143	230	149	1	0.04	143	13	323
	1	0.04	143	196	152	1	1.12	143	2	143
	1	0.13	143	202	200	1	0.07	143	17	315
	1	0.04	143	87	94	1	0.08	147	127	236
	1	0.04	143	113	140	1	0.08	147	139	98
	1	0.05	143	112	147	1	0.04	147	92	132
	1	0.03	143	111	123	1	0.11	147	132	136
	1	0.15	143	107	176	1	0.13	147	2	
	1	0.30	143	83	87	1	0.04	147	30	160
	1	0.04	143	42	118	1	0.04	147	19	193
	1	0.04	143	48	238	1	0.04	147	66	214
	1	0.03	143	47	91	1	0.03	147	47	267
	1	0.09	143	46	94	1	0.04	147	39	328
	1	0.06	143	52	154	1	0.03	147	43	163
Soft coral	63	107.57	147	23	443	4		143	153	96
	21		147	125	97	4		147	55	220
	5		143	29	228					
Stony coral	55		147	94	89	4		143	233	91
	33		147	118	456	4		147	43	163
unident.	23		147	92	132	3		143	164	95
	13		143	111	123	3		143	87	94
	7		143	47	91	3		143	48	238
	7		143	46	94	3		143	54	162
	5		143	163	91	3		147	30	160
Octopus	14	8.56	143	75	170	3	5.92	147	44	99
	13	12.49	147	142	92	2	4.34	143	176	95
	9	17.53	143	46	94	2	6.41	143	139	150
	9	21.13	143	6	92	2	2.23	143	244	90
	7	18.31	147	64	162	2	4.14	143	226	155
	6	7.61	143	246	113	2	5.99	143	249	107
	6	4.12	147	132	136	2	3.60	143	245	91
	5	5.46	143	206	93	2	2.67	143	219	160
	5	5.50	143	148	118	2	3.48	143	237	156
	5	10.51	143	198	132	2	1.23	143	180	162
	5	4.21	147	67	114	2	1.86	143	122	214
	4	9.19	143	250	109	2	6.02	143	77	90
	4	1.56	143	112	147	2	5.10	147	79	45
	4	8.06	143	18	110	2	5.23	147	119	114
	4	8.37	147	5	98	2	0.87	147	112	379
	3	5.88	143	103	113	2	0.65	147	47	267
	3	7.59	143	164	95	1	2.89	143	233	91
	3	6.45	143	150	121	1	1.49	143	104	123
	3	7.30	143	178	123	1	2.15	143	90	175
	3	2.73	147	117	164	1	1.49	143	168	169
	3	2.56	147	144	72	1	0.66	143	166	87
	3	7.16	147	10	163	1	1.70	143	140	187

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Species	Individual			Gear			Individual			Gear		
	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)	CPUE (kg/ha)	weight (kg)	Vessel	Haul	depth (m)		
Octopus	1	2.40	143	194	157	1	2.21	147	127	236		
(Cont.)	1	0.69	143	216	391	1	2.13	147	74	151		
	1	1.38	143	196	152	1	0.69	147	118	456		
	1	1.98	143	124	363	1	1.48	147	111	340		
	1	2.54	143	121	319	1	2.82	147	96	84		
	1	1.29	143	108	223	1	1.00	147	92	132		
	1	1.43	143	76	114	1	1.28	147	43	163		
	1	0.47	143	65	322	1	3.22	147	60	146		
Snails	12	0.04	143	3	91	1	0.07	143	87	94		
	11	0.06	143	4	95	1	0.04	143	7	90		
	2	0.06	143	203	94	1	0.03	143	6	92		
	2	0.06	143	5	85	1	0.10	143	2	143		
	1	0.08	143	223	149	1	0.05	147	2	NA		
	1	2.86	143	237	156							
Other invertebrates	83	0.04	143	4	95	8	0.10	143	47	91		
	67	0.01	147	118	456	8	0.49	143	45	325		
	45	0.05	143	3	91	8	0.04	143	52	154		
	36	0.12	143	132	180	8	0.06	143	54	162		
	30	0.02	143	203	94	8	0.21	143	14	116		
	30	8.09	147	124	108	7	0.35	143	49	468		
	28	0.16	143	111	123	7	0.57	143	60	321		
	26	0.10	143	59	274	7	0.08	143	57	362		
	22	0.09	147	94	89	7	0.10	143	56	364		
	21	0.16	143	29	228	7	0.18	143	23	86		
	15	0.02	143	86	142	7	0.98	147	41	455		
	14	0.08	143	183	81	7	0.11	147	47	267		
	13	0.70	143	231	126	7	0.28	147	39	328		
	13	0.14	147	30	160	6	0.32	143	50	462		
	13	0.18	147	35	234	6	0.03	143	41	143		
	12	0.18	143	233	91	6	0.70	147	83	381		
	12	0.40	143	234	317	6	2.71	147	113	265		
	12	0.82	147	44	99	6	0.11	147	139	98		
	11	1.62	143	212	347	6	0.19	147	48	151		
	11	1.26	143	227	222	6	0.03	147	52	165		
	11	0.12	143	83	87	5	0.04	143	195	148		
	11	0.57	147	142	92	5	0.18	143	97	347		
	11	0.14	147	66	214	5	0.16	143	149	84		
	10	1.40	143	99	437	5	0.83	143	226	155		
	10	2.39	143	240	315	5	1.29	143	225	156		
	10	0.52	143	69	228	5	0.32	143	248	127		
	10	0.18	143	58	337	5	1.13	143	238	271		
	10	0.07	143	62	95	5	0.51	143	247	144		
	10	0.07	143	5	85	5	1.53	143	120	175		
	10	0.22	143	28	305	5	0.04	143	112	147		
	9	0.14	143	30	229	5	0.09	143	43	139		
	9	0.19	147	46	125	5	0.48	143	66	141		
	9	0.10	147	36	250	5	0.04	143	8	92		
	9	0.07	147	43	163	5	0.07	143	32	319		
	8	0.16	143	257	205	5	0.10	147	84	181		
	8	0.15	143	235	262	5	0.60	147	117	164		
	8	0.63	143	178	123	5	0.10	147	92	132		



**Section 4**

**Trawl and Accessories**  
**Specifications and Diagrams**



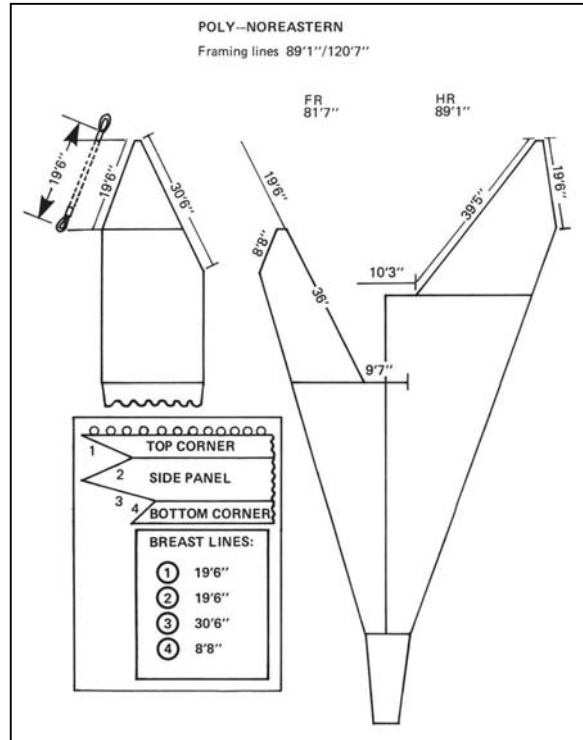
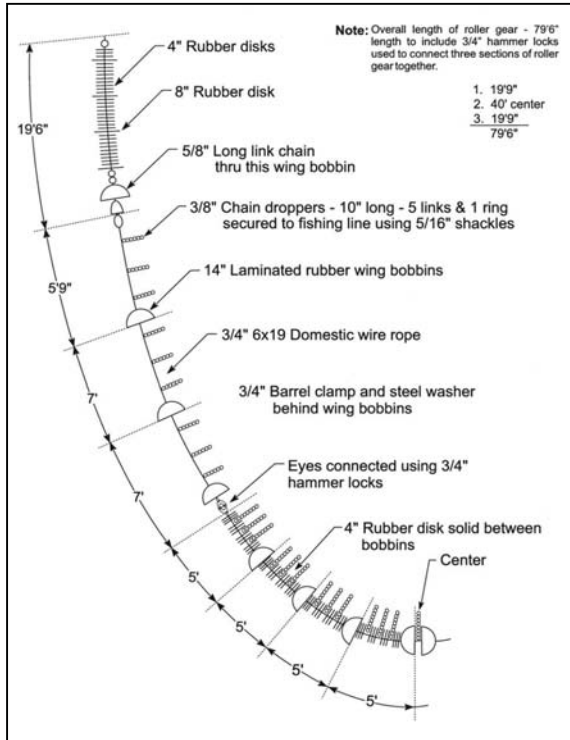


Specifications of the trawl, otter doors, and accessory gear used by the chartered trawlers *Gladiator*, and *Sea Storm* during the 2006 bottom trawl survey of the Aleutian Islands (Stauffer 2004).

Equipment	Specifications
Netting -	Polyethylene, 12.7 cm (5 in), 4 and 5 millimeter (mm) twine.
Headrope -	27.2 m (89 ft-1 in), 1.3 cm (1/2 in) 6 × 19 gauge galvanized wire rope, wrapped with 1 cm (3/8 in) 3-strand polypropylene rope.
Footrope -	24.9 m (81 ft-7 in), 1 cm (3/8 in) 6 × 19 gauge galvanized wire rope wrapped with polypropylene rope.
Fishing line -	24.3 m (79 ft-7 in), shot-peened long-link chain. Safe working load 5.1 metric ton (t).
Roller gear -	24.2 m (79 ft-6 in), 1.9 cm (3/4 in) diameter, 6 × 19 gauge galvanized wire rope strung through 10.2 cm (4 in) diameter rubber disks, 16 rubber wing bobbins 35.6 cm (14 in) in diameter and 34 galvanized rings hung with 30.5 cm (12 in) long dropper chain.
Breastlines -	1 cm (3/8 in) 6 × 19 gauge galvanized wire rope wrapped with 1 cm polypropylene. Top corner 5.9 m (19 ft-6 in); bottom corner 2.6 m (8 ft-8 in); top side panel 5.9 m; bottom side panel 9.3 m (30 ft-6 in).
Riblines -	1.9 cm (3/4 in) Sampson <sup>*</sup> 2 and 1 Duralon <sup>*</sup> . Top two 34.8 m (114.17 ft) and bottom two 31.8 m (104.45 ft), hung 98% of stretched seam length.
Flotation -	Cycolac <sup>*</sup> trawl floats, 30.5 cm (12 in) diameter, 21 pieces. Buoyancy 10.2 kg (22.4 lb.) each and rated for 800 m (400 fathom) depth.
Codend liner -	Nylon, no. 18, 3.2 cm (1-1/4 in) stretched mesh (M), 315 M circumference and 200 M deep, laced to inner bag. When stretched the liner protrudes 61-91 cm (2 to 3 ft) beyond codend.
Restrictors -	Polypropylene rope, 2.5 cm (1 in) diameter, 4.3 m (14 ft) circumference and secured loosely to codend at each ribline, 1.2 m (4 ft) apart, five pieces.
Splitting gear -	1.3 cm (1/2 in) diameter 6.4 m (21 ft) long galvanized wire rope is passed through four galvanized steel rings which are secured to the codend with 1.3 cm diameter braided nylon "spiders".
Side seams -	Panels are joined to each other gathering 3 M (4 knots) from each panel. Panels that are secured to framing lines have a selvaged edge created by gathering 3 M.
Rigging -	3 dandyines each side, 1.6 cm (5/8 in) diameter galvanized wire rope, 54.9 m (30 fathoms) long.
Doors -	1.8 m × 2.7 m (6 × 9 ft), steel V-doors, approximately 800 kg (1,800 lb) each.
Chafing gear -	Polypropylene 10 in M, 1 cm (3/8 in) polyrope hog-ringed (or interwoven) together, 46 M circumference and 21 M deep, laced to outer bag 68.5 M up from the pucker rings.

\*Reference to trade names does not imply endorsement by the National Marine Fisheries Service, NOAA

Figure 12. -- Trawl accessories diagrams.



**Gulf of Alaska Survey (GOA) Rigging Plan**

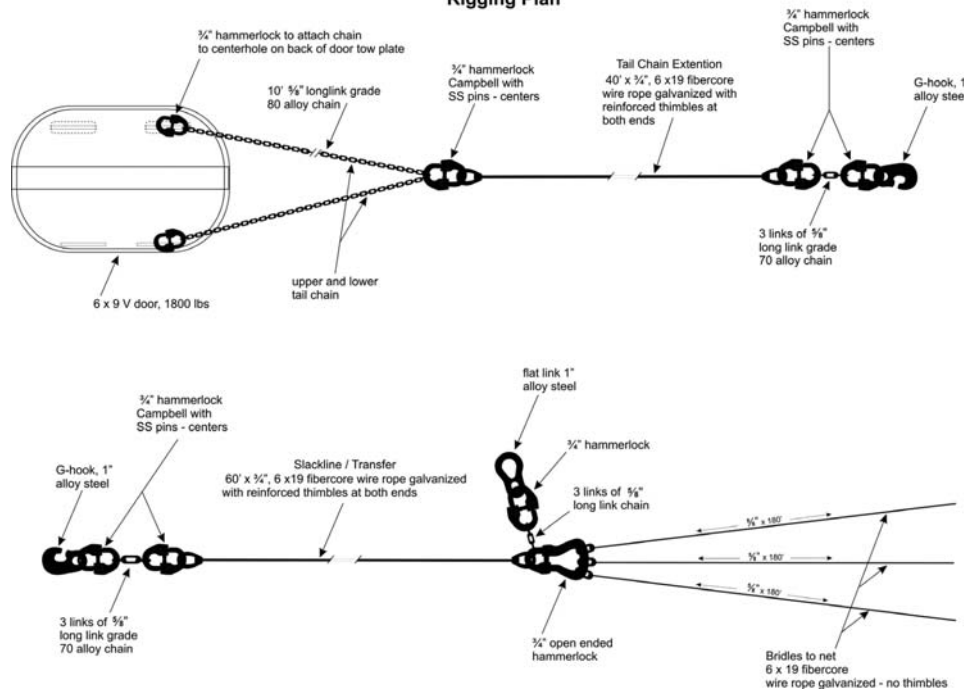
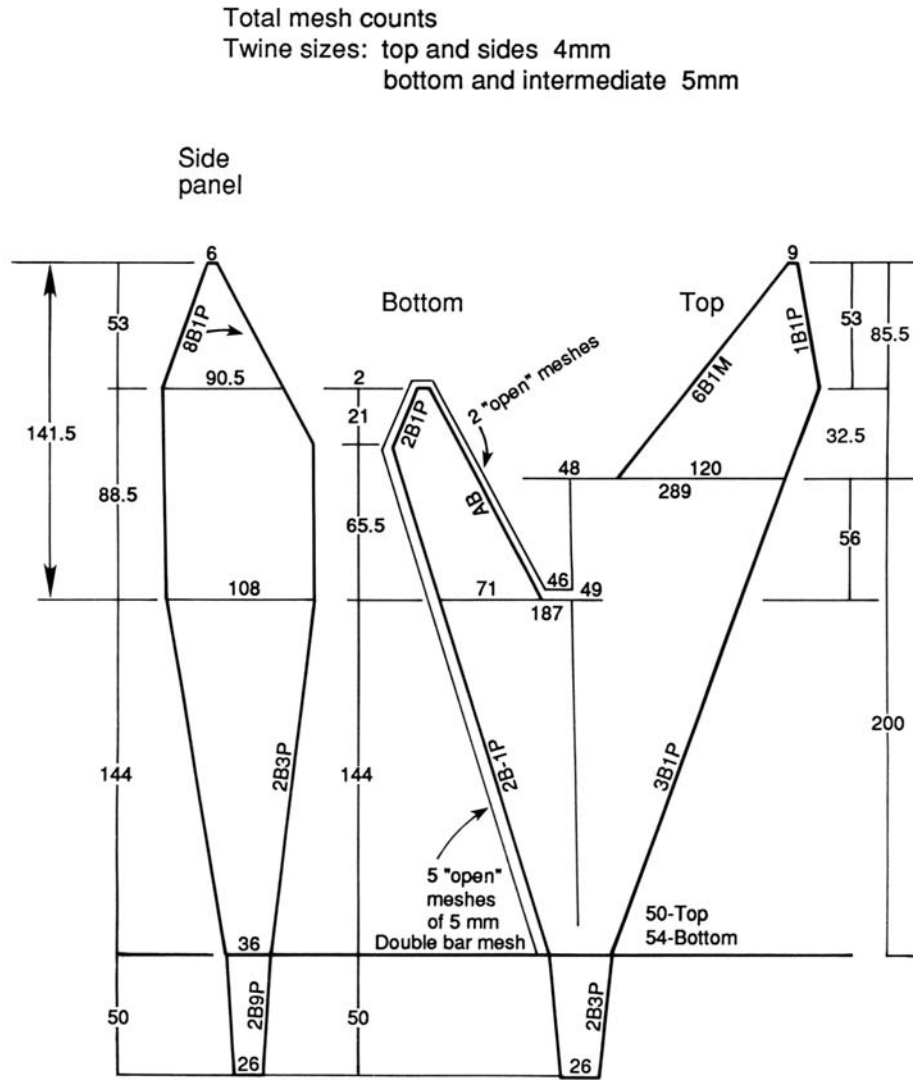


Figure 13. -- Poly Nor'Eastern net framing diagram.



**Web:** Chaffing strip along inside of Bottom wings and Busom. Cut 8 meshes wide.  
5 mm Double Bar mesh, goring 3 meshes on each side (leaving 2 open meshes).  
Secure 3 mesh of gore on inside (Bar Cut) of Bottom wings, and securing other gore to footrope (Bolsh).