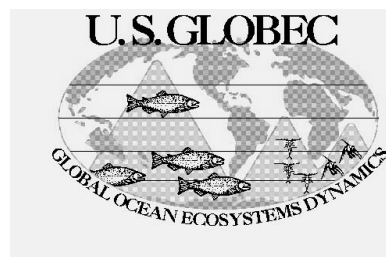


# **GLOBEC Northeast Pacific, Coastal Gulf of Alaska**

**Cruise Report, F/V *Great Pacific* (GP0108)**

**12 July – 8 August, 2001**



**GLOBEC Northeast Pacific, Gulf of Alaska  
Cruise Report, F/V *Great Pacific* (GP0108)  
July 12 – August 8, 2001**

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**Port of Departure:** Juneau, Alaska  
**Port of Return:** Dutch Harbor, Alaska

**Cruise Goals / Scientific Purpose**

The July – August 2001 OCC/GLOBEC cruise focused on salmon (*Oncorhynchus* spp.), and zooplankton distribution, and physical properties (current, temperature, and salinity) along 11 transects beginning at Icy Point near northern Southeast Alaska and ending at Cape Kaguyak at the western end of Kodiak Island (Figure 1). Sampling along each transect occurred over the continental shelf of the Gulf of Alaska and beyond the 200-m slope and into oceanic depths. The purpose was to investigate the relationships between biological and physical oceanographic processes that affect the distribution of juvenile salmon in the coastal Gulf of Alaska.

**Cruise Objectives**

1. Determine the distribution of salmon along the 11 transects sampled.
2. Determine the distribution of zooplankton within the study area.
3. Determine along shelf current velocity, surface temperature and salinity, and thermohaline structure.

**Table 1. GLOBEC Cruise Participants**

Edward D. Cokelet	Oceanography/ Pacific Marine Environmental Laboratory
Chris Kondzela	Genetics/ AFSC/ABL
Ellen Martinson	Salmon Age and Growth/ AFSC/ABL
Jim Murphy	Archival tags/ AFSC/ABL
Noele Weemes	Zooplankton/ AFSC/ABL
Jamal Hasan Moss	Graduate Student/ University of Washington
Mary Auburn-Cook	Contractor, Salmon Diet, Zooplankton
Corey Fitch	Student/College of Wooster

**Sampling Activities**

The OCC/GLOBEC survey along the coastal waters of the Gulf of Alaska was conducted July 12 – August 8, 2001. The survey area included 11 transects beginning with the Icy Point transect near northern Southeast Alaska and ending at Cape Kaguyak at the western end of Kodiak Island (Figure 1). Transects sampled during the survey were perpendicular to shore and extended from nearshore across the continental shelf to oceanic waters beyond the 200-m shelf break. Sampling stations along each transect were generally spaced 18.5 km apart; each transect included a nearshore station (station less than 4 km from shore).

The survey was conducted aboard the contracted fishing vessel (F/V) *Great Pacific* (38 meters in length). Fish samples were collected using a midwater rope trawl, which is 198-m long, has hexagonal mesh in wings and body, and has a 1.2-cm mesh liner in the codend. The rope trawl was towed at 3.5 to 5 kts, at or near surface, and had a typical spread of 45-m horizontally and 10-m vertically. All tows lasted 30 minutes and covered 2.8 to 4.6 km. Most of the sampling was done during daylight hours; two tows occurred during night as part of a 24-hour repeat sampling of the GAK 3 station (samples taken every 4 hours).

Salmon and other fishes were sorted by species and counted. Standard biological measurements including fork length, body weight, and sex as well as scale samples from the preferred area (to document age and growth) were taken from subsamples of all salmon species. Subsamples of juvenile pink (*Oncorhynchus gorbuscha*), chum (*O. keta*), and sockeye (*O. nerka*) salmon were frozen whole for laboratory analyses of food habits, otolith hatchery thermal marks (pink and chum salmon), and genetic analysis (chum salmon). Tissues and otoliths were also saved from immature and maturing chum salmon to determine stock distribution and migration of these salmon. Archival tags measuring temperature and depth were attached to a select number of immature and maturing salmon (those in the best condition having retained most of their scales after being caught) and then the salmon were released. All other fish species were counted; juvenile rockfish (*Sebastes* spp.) and sablefish (*Anoplopoma fimbria*) were frozen whole for laboratory analyses.

Oceanographic measurements were made at trawl stations immediately prior to each trawl haul (Table 7). Depth profiles of temperature, salinity, and fluorescence from surface to near-bottom or 200-m (whichever was shallower) were collected using a Sea-Bird SBE 19 Seacat CTD (conductivity-temperature-depth) profiler<sup>1</sup> (Table 6). On each cast, a Niskin bottle collected a discrete water sample for salinity and fluorescence calibration with the CTD. Plankton samples were collected using a 1-m<sup>2</sup> Tucker trawl fitted with a 505- $\mu$ m mesh net that was towed near surface (approximately 1 knot) for 5 minutes (Table 8). Volume of water filtered by each net was estimated by flow meters and the plankton samples were preserved in 5% formalin. Plankton samples were also collected using a WP-2 net fitted with a 253- $\mu$ m mesh net that was deployed vertically to 100-m depth (Table 10). Plankton samples collected from the WP-2 net were frozen and will be used for stable carbon and nitrogen Isotope analysis. The current beneath the ship was measured continuously with a 300-kHz acoustic Doppler current profiler (ADCP). A differential Global Positioning System (GPS) receiver and a GPS-based attitude determination unit provided associated position and heading measurements. A thermosalinograph and fluorometer sampling water from the seachest provided continuous measurements of near-surface temperature, salinity, and fluorescence. Satellite-tracked drifting buoys drogued at 40-m were deployed at designated trawl stations (Table 9) to measure the strength and direction of the current along the continental shelf.

### Daily Cruise Summary

The ADCP and thermosalinograph were installed on the F/V *Great Pacific* at the Foss Shipyard in Seattle during the early part of June, 2001. Sea trials to test the ADCP and thermosalinograph were conducted in Puget Sound on July 2, 2001. The vessel departed Seattle on July 12 and arrived in Juneau on July 17 to load scientists and gear.

**17 –21 July.** The cruise departed Juneau the evening of July 17 and proceeded to the nearshore station along the Icy Point transect. Work at each station included vertical CTD casts to 200-m, surface tow for zooplankton using a Tucker trawl, and a surface tow for salmon and other marine fishes using the rope trawl. The cruise continued sampling stations along the Ocean Cape transect (2-days; July 18 and 19). We encountered engine trouble after arriving at the Cape Yakataga transect (near Icy Bay) and had to travel back to Yakutat for repairs. Prior to leaving the transect, we deployed two drifter buoys, one at IB2 and another at IB5. Work to the main engine was completed the evening of July 21.

**22 – 27 July.** We left Yakutat and began sampling stations along the Cape Yakataga transect the morning of July 22. Work along the Cape Yakataga, Cape St. Elias, Cape Cleare, and Seward Line transects was similar to that conducted along the Icy Point and Ocean Cape transects, except we added a vertical plankton tow to collect zooplankton for Isotope analysis at various stations across these transects. Drifter buoys were also deployed at station 3 on the Cape St. Elias transect, stations 3 and 6 along the Cape Cleare

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<sup>1</sup> Reference to trade names does not imply endorsement by the National Marine Fisheries Service, NOAA. GLOBEC Cruise Report, F/V *Great Pacific* (GP0108), 12 July – 8 August, 2001

transect, and at GAK 9, 7, 5, 3, and 2 along the Seward Line transect. A 24-hour repeated sampling experiment (1 sample every 4 hours) was also completed at GAK 3 along the Seward Line transect. Leg 1 was completed on July 27 in Seward, Alaska.

**28 July – 8 August.** Leg 2 left Seward the evening of July 28 and sampling was begun along the Gore Point transect the morning of July 29. Sampling along the Gore Point, Cape Chiniak, Cape Nukshak, Cape Kekurnoi, and Cape Kagayuk transects included CTD, Tucker trawl, vertical plankton at various locations, and a surface trawl for juvenile salmon and other marine fishes. A drifter buoy was deployed at station 5 along the Gore Point transect. Archival tags measuring temperature and depth were attached to immature and maturing salmon at stations 1, 4, and 5 along the Cape Chiniak transect and at stations 3, 4, 5, and 6 along the Cape Kagayuk transect. Sampling ended after station 6 on the Cape Kagayuk transect; the vessel then traveled to Dutch Harbor, arriving August 8, 2001, ending the cruise.

## Summary of Sampling Operations

### Salmon Sampling (Farley)

During the survey, 75 trawl stations were completed beginning nearshore at the Icy Point transect and ending at the southwestern end of Kodiak Island along Cape Kaguyak (Figure 1; Table 2; Appendix I). A total of 13,332 salmon were captured (Table 3). The largest component of the catch was juvenile salmon including pink (42.2%), chum (11.9%), sockeye (25.3%), coho (*O. kisutch*; 8.3%), and chinook (*O. tshawytscha*; <1%). Immature salmon in our catch included chum (6.8%), sockeye (1%), and chinook (<1%). Maturing salmon in our catch included pink (2.7%), chum (<1%), sockeye (<1%), coho (<1%), and chinook (<1%) salmon. Other species captured during the survey are listed in Table 4.

Salmon distribution within the survey varied by life history stage. Juvenile salmon were distributed along the continental shelf from nearshore locations to the 200-m shelf break from the Icy Point to Seward Line transects (Figures 2a-d). Juvenile salmon were located closer to shore along transects west of the Seward Line. Catch per unit effort (CPUE; number of salmon caught within a 30 minute time period) of juvenile salmon was largest near the 200-m contour along the Icy Point and Ocean Cape transects and along transects within Shelikof Strait (Figures 2a-d; Table 3). Immature chum salmon were found along all transects sampled except Cape Kekurnoi with the largest CPUE generally occurring at offshore locations beyond the 200-m contour (Figure 3a). Immature sockeye salmon were mainly found along transects west of Cape Cleare with the largest catches occurring along the Cape Kaguyak transect (Figure 3b). Mature pink salmon were found along all transects sampled, with the largest CPUE occurring at the shelf station on the Cape Chiniak transect. Maturing chum, sockeye, and coho salmon were only sporadically captured throughout the survey area (Figure 4a-d).

Body size of juvenile salmon varied depending on location (Table 5). Juvenile salmon tended to be smallest along transects nearest exit corridors where juvenile salmon enter the Gulf of Alaska from inside waters of Southeast Alaska (e.g. Icy Point) and Prince William Sound (e.g. Cape Cleare). Within Shelikof Strait, juvenile salmon were smaller along the Cape Nukshak transect than the Cape Kekurnoi transect.

### Acknowledgements

We wish to thank the Alaska Boat Company, particularly Captains C. Bronson (Leg 1) and C. Bolton (Leg 2) and the crew of the F/V *Great Pacific*, for their fine efforts and technical assistance in all aspects of our field surveys.

Table 2. Haul information for the July 17 - August 6, 2001 OCC/GLOBEC juvenile salmon survey in the coastal waters of the Gulf of Alaska. Latitude and longitude are in degrees and minutes (ddd.mm).

Date	Transect Name	Station ID	Lat °N	Lon °W	Course (degrees)	Start Time	Speed (knots)	Net Opening			SST (°C)
								Vert. (m)	Hori. (m)	Warp (m)	
7/17	Icy Point	IP2	58.12	137.12	270	16:10	5.0	9	44	384	13.0
7/17	Icy Point	IP4	58.54	137.30	270	20:18	4.6	9	46	384	13.1
7/18	Ocean Cape	OC10	57.60	140.29	90	8:03	4.8	9	46	384	12.5
7/18	Ocean Cape	OC9	58.09	140.20	355	11:22	4.6	9	44	384	13.7
7/18	Ocean Cape	OC8	58.19	140.15	0	14:17	4.4	9	44	384	13.7
7/18	Ocean Cape	OC6	58.39	140.10	0	18:16	4.6	9	44	384	13.8
7/19	Ocean Cape	OC5	58.52	140.07	5	7:24	5.1	9	46	384	13.1
7/19	Ocean Cape	OC4	59.02	140.03	10	10:26	4.8	9	46	384	13.7
7/19	Ocean Cape	OC3	59.12	139.60	10	13:10	4.9	9	46	384	12.3
7/19	Ocean Cape	OC2	59.22	139.55	10	16:10	4.7	9	46	384	13.0
7/19	Ocean Cape	OC1	59.31	139.53	195	18:31	4.3	9	46	384	13.0
7/22	Cape Yakataga	IB1	60.02	142.33	180	6:45	4.6	9	46	384	12.2
7/22	Cape Yakataga	IB2	59.56	142.30	195	9:27	4.8	9	46	384	12.3
7/22	Cape Yakataga	IB3	59.46	142.33	190	12:40	4.7	9	46	384	12.6
7/22	Cape Yakataga	IB5	59.31	142.36	185	15:50	4.9	9	46	384	11.9
7/22	Cape Yakataga	IB6	59.19	142.39	185	19:08	5.2	9	46	384	12.8
7/23	Cape St. Elias	CSE5	59.08	144.36	0	6:55	4.9	9	46	384	13.1
7/23	Cape St. Elias	CSE4	59.19	144.36	5	9:48	4.8	9	46	384	14.4
7/23	Cape St. Elias	CSE3	59.30	144.38	0	12:51	4.7	9	46	384	14.2
7/23	Cape St. Elias	CSE2	59.36	144.36	0	15:52	4.6	9	46	384	12.8
7/23	Cape St. Elias	CSE1	59.47	144.40	252	19:03	6.0	11	44	320	14.0
7/24	Cape Cleare	CC1	59.45	147.49	180	7:19	4.4	9	46	384	12.8
7/24	Cape Cleare	CC3	59.35	147.39	145	10:07	4.6	9	46	384	13.8
7/24	Cape Cleare	CC5	59.23	147.23	145	13:35	4.7	9	46	384	15.1
7/24	Cape Cleare	CC6	59.15	147.11	145	16:25	4.8	9	46	384	15.0
7/24	Cape Cleare	CC7	59.05	146.58	145	20:17	4.7	9	46	384	14.2
7/25	Seward Line	GAK12	58.13	147.55	325	6:50	4.9	9	46	384	13.3
7/25	Seward Line	GAK11	58.43	148.03	325	9:45	4.8	9	46	384	13.4
7/25	Seward Line	GAK10	58.31	148.11	325	12:35	4.5	9	46	384	14.6
7/25	Seward Line	GAK9	58.39	148.21	325	15:46	5.0	9	46	402	12.6
7/25	Seward Line	GAK8	58.47	148.28	325	18:38	4.8	9	46	384	13.4
7/26	Seward Line	GAK7	58.57	148.37	330	6:43	4.6	9	46	384	13.2
7/26	Seward Line	GAK6	59.05	148.43	330	9:30	4.7	9	46	421	13.5
7/26	Seward Line	GAK5	59.14	148.52	330	12:22	4.6	9	46	421	13.8
7/26	Seward Line	GAK4	59.25	149.01	330	15:38	5.0	9	46	402	15.2
7/26	Seward Line	GAK3	59.32	149.11	330	18:40	4.7	9	46	366	15.7
7/26	Seward Line	GAK3	59.32	149.10	330	22:30	4.7	9	46	384	14.0
7/27	Seward Line	GAK3	59.32	149.10	330	2:36	4.3	9	46	384	14.5
7/27	Seward Line	GAK3	59.33	149.11	330	6:41	4.7	9	46	384	13.0

Table 2 (con't). Haul information for the July 17 - August 6, 2001 OCC/GLOBEC juvenile salmon survey in the coastal waters of the Gulf of Alaska. Latitude and longitude are in degrees and minutes (ddd.mm).

Date	Transect Name	Station ID	Lat °N	Lon °W	Course (degrees)	Start Time	Speed (knots)	Net Opening			SST (°C)
								Vert. (m)	Hori. (m)	Warp (m)	
7/27	Seward Line	GAK3	59.32	149.10	330	10:29	4.7	9	46	402	13.7
7/27	Seward Line	GAK3	59.32	149.10	340	14:30	4.3	9	46	430	14.8
7/27	Seward Line	GAK2	59.40	149.19	330	17:31	4.1	9	46	402	14.2
7/27	Seward Line	GAK1	59.50	149.28	330	20:33	5.0	9	46	421	15.0
7/29	Gore Point	GP1	59.09	150.56	145	8:30	4.1	11	48	369	12.3
7/29	Gore Point	GP3	58.54	150.45	155	12:29	4.5	9	46	366	12.2
7/29	Gore Point	GP4	58.45	150.39	155	15:30	4.5	11	46	384	13.3
7/29	Gore Point	GP5	58.36	150.31	140	18:22	4.5	11	46	384	11.6
7/30	Gore Point	GP6	58.26	150.23	165	7:45	4.1	13	42	384	9.5
7/30	Gore Point	GP7	58.17	150.17	155	10:26	3.5	11	48	411	10.7
7/30	Gore Point	GP8	58.08	150.09	160	13:40	4.2	9	46	402	11.4
7/30	Gore Point	GP9	57.58	150.02	160	16:32	4.5	11	46	384	9.2
7/30	Gore Point	GP10	57.51	149.56	150	19:15	4.5	11	46	384	10.4
7/31	Gore Point	GP11	57.39	149.49	166	7:15	4.8	11	44	366	11.6
7/31	Gore Point	GP12	57.30	149.42	150	9:57	4.1	11	46	421	11.8
7/31	Gore Point	GP13	57.21	149.35	154	12:52	3.5	9	46	402	12.1
7/31	Gore Point	GP14	57.12	149.27	155	16:15	3.5	11	46	421	13.9
8/1	Cape Chiniak	CCH7	56.16	150.52	340	7:02	4.2	11	46	375	9.2
8/1	Cape Chiniak	CCH6	56.29	151.03	335	10:19	4.7	13	46	384	10.7
8/1	Cape Chiniak	CCH5	56.42	151.17	345	13:40	4.6	13	46	384	12.7
8/1	Cape Chiniak	CCH4	56.55	151.29	340	16:54	4.3	13	46	402	12.5
8/2	Cape Chiniak	CCH3	57.08	151.43	345	6:47	4.0	13	46	421	12.6
8/2	Cape Chiniak	CCH2	57.22	151.56	349	10:07	4.5	13	46	402	11.0
8/2	Cape Chiniak	CCH1	57.24	152.07	154	13:00	4.2	11	37	395	11.4
8/3	Cape Nukshak	CN1	58.02	153.26	320	6:48	4.4	11	46	402	10.4
8/3	Cape Nukshak	CN2	58.11	153.41	324	10:36	3.9	9	44	421	10.9
8/3	Cape Nukshak	CN3	58.22	153.56	145	16:23	5.0	13	46	413	11.9
8/4	Cape Kekurnoi	CK1	57.42	155.17	138	7:02	4.5	13	42	426	10.4
8/4	Cape Kekurnoi	CK2	57.35	155.04	130	10:25	4.2	11	46	413	13.6
8/4	Cape Kekurnoi	CK3	57.25	154.45	135	15:40	4.5	11	44	402	11.4
8/5	Cape Kaguyak	CKAG1	56.40	153.54	155	6:39	4.5	11	46	384	11.5
8/5	Cape Kaguyak	CKAG2	56.29	153.43	148	9:29	4.8	13	44	373	12.8
8/5	Cape Kaguyak	CKAG3	56.16	153.31	150	12:36	3.5	11	46	373	12.9
8/5	Cape Kaguyak	CKAG4	56.08	153.22	150	15:25	3.7	11	46	402	13.6
8/5	Cape Kaguyak	CKAG5	55.55	153.09	145	19:00	4.7	11	46	421	14.5
8/6	Cape Kaguyak	CKAG6	55.42	152.55	145	7:20	4.6	11	46	402	14.0

Table 3. Catch per unit effort (CPUE) of juvenile (J), immature (I), and adult (A) salmon by species and station by the F/V *Great Pacific* in the Gulf of Alaska, July 17 - August 6, 2001. Dash (-) indicates no salmon caught.

Date	Station ID	Pink		Chum			Sockeye			Coho		Chinook		
		J	A	J	I	A	J	I	A	J	A	J	I	A
7/17	IP2	60	-	90	-	1	2	1	2	5	1	1	-	-
7/17	IP4	550	8	250	3	-	300	-	1	7	-	-	-	-
7/18	OC10	-	-	-	-	-	-	-	1	-	-	-	-	-
7/18	OC9	-	7	-	11	-	-	-	-	-	-	-	-	-
7/18	OC8	-	1	-	1	-	-	-	-	-	-	-	-	-
7/18	OC6	-	4	-	10	-	9	-	1	10	-	-	-	-
7/19	OC5	500	12	460	2	1	75	-	1	30	-	1	-	-
7/19	OC4	8	10	10	-	4	14	-	2	125	1	3	-	-
7/19	OC3	1	10	17	-	-	1	-	3	60	-	-	-	-
7/19	OC2	15	7	12	1	5	1	-	-	21	-	-	-	1
7/19	OC1	-	-	-	-	-	-	-	-	1	2	1	-	-
7/22	IB1	5	4	5	8	1	-	-	1	16	3	1	2	1
7/22	IB2	7	2	9	2	1	3	-	-	22	-	2	-	-
7/22	IB3	70	4	21	-	1	6	-	1	55	1	2	-	-
7/22	IB5	67	3	6	-	-	5	-	-	12	3	-	-	-
7/22	IB6	17	4	-	10	1	62	-	1	38	2	-	-	-
7/23	CSE5	-	-	-	4	-	-	3	-	-	1	-	-	-
7/23	CSE4	-	-	-	1	-	-	3	-	1	-	-	-	-
7/23	CSE3	6	2	17	22	1	7	-	-	38	3	-	-	-
7/23	CSE2	-	5	6	22	-	90	-	-	38	-	-	6	-
7/23	CSE1	2	1	1	-	-	-	-	-	7	6	-	4	-
7/24	CC1	5	11	6	6	-	9	-	-	48	2	-	1	-
7/24	CC3	16	6	48	13	-	17	-	-	17	-	-	1	-
7/24	CC5	42	-	8	5	-	6	-	1	17	3	4	-	-
7/24	CC6	11	-	1	16	-	19	-	-	60	-	1	-	-
7/24	CC7	1	-	-	144	-	6	-	-	11	3	-	-	-
7/25	GAK12	-	17	-	53	2	-	-	-	1	-	-	-	-
7/25	GAK11	-	7	-	29	3	-	1	2	1	-	-	-	-
7/25	GAK10	51	4	9	7	-	5	-	-	9	-	-	-	-
7/25	GAK9	135	7	-	-	-	7	1	-	6	1	-	-	-
7/25	GAK8	26	4	5	11	-	1	1	-	27	-	-	-	-
7/26	GAK7	5	16	-	59	4	14	-	-	34	2	-	-	-
7/26	GAK6	25	1	3	11	-	5	1	-	5	1	-	1	-
7/26	GAK5	34	6	1	1	-	21	-	-	29	3	-	-	-
7/26	GAK4	4	5	-	1	-	16	-	-	34	2	-	-	-
7/26	GAK3	15	16	24	58	-	9	-	-	20	1	-	-	-
7/26	GAK3	4	3	1	11	-	2	-	-	13	2	-	-	-
7/27	GAK3	-	3	-	8	-	-	-	-	-	1	-	-	-
7/27	GAK3	36	3	7	1	-	8	-	-	14	1	-	-	-

Table 3. (Con't) Catch per unit effort (CPUE) of juvenile (J), immature (I), and adult (A) salmon by species and station by the F/V *Great Pacific* in the Gulf of Alaska, July 17 - August 6, 2001. Dash (-) indicates no salmon caught.

Date	Station ID	Pink		Chum			Sockeye			Coho		Chinook		
		J	A	J	I	A	J	I	A	J	A	J	I	A
7/27	GAK3	1	10	1	7	-	3	-	-	5	-	-	-	-
7/27	GAK3	27	9	5	13	1	7	-	-	10	3	-	-	-
7/27	GAK2	50	6	30	62	2	8	-	-	3	-	2	-	-
7/27	GAK1	19	-	43	-	-	1	-	-	9	-	-	-	-
7/29	GP1	-	-	-	9	-	9	7	-	13	-	-	1	-
7/29	GP3	42	-	37	3	-	58	-	-	16	-	-	2	-
7/29	GP4	179	-	25	7	-	14	-	-	2	1	-	3	-
7/29	GP5	171	-	12	-	-	24	1	-	26	1	-	3	-
7/30	GP6	-	1	-	4	-	-	-	-	1	8	-	-	-
7/30	GP7	-	20	-	1	-	-	-	-	-	8	-	-	-
7/30	GP8	-	3	-	-	-	-	1	-	1	-	-	1	-
7/30	GP9	-	-	-	11	-	7	-	-	-	-	-	1	-
7/30	GP10	30	4	-	8	-	-	6	-	-	2	-	2	-
7/31	GP11	-	5	-	19	-	-	2	-	-	1	-	-	1
7/31	GP12	-	3	-	30	-	-	7	1	-	-	-	-	-
7/31	GP13	-	-	-	15	-	-	1	-	-	-	-	-	-
7/31	GP14	-	1	-	19	1	-	5	-	-	-	-	-	-
8/1	CCH7	-	-	-	-	-	-	-	-	-	-	-	-	-
8/1	CCH6	-	2	-	1	-	-	-	-	-	-	-	-	-
8/1	CCH5	-	1	-	8	-	1	5	-	-	1	-	1	-
8/1	CCH4	-	9	-	29	1	-	2	2	2	-	-	-	-
8/2	CCH3	-	1	-	-	1	-	1	-	-	-	-	-	-
8/2	CCH2	1	18	1	-	4	-	-	-	-	4	-	-	-
8/2	CCH1	-	3	-	-	-	-	3	-	2	-	-	2	-
8/3	CN1	386	2	46	-	-	119	-	-	12	2	-	1	-
8/3	CN2	2200	-	212	1	-	1790	-	-	1	3	-	-	-
8/3	CN3	213	4	65	-	-	434	-	-	76	2	-	4	-
8/4	CK1	106	11	34	-	1	66	2	2	38	2	-	6	-
8/4	CK2	450	11	46	-	1	112	-	-	-	1	-	-	-
8/4	CK3	30	21	8	-	-	1	-	3	40	3	-	1	-
8/5	CKAG1	4	9	3	1	-	1	6	-	11	14	-	-	-
8/5	CKAG2	-	6	-	4	2	-	20	-	2	5	-	1	-
8/5	CKAG3	-	5	-	-	-	-	15	2	-	-	-	-	-
8/5	CKAG4	-	6	-	9	-	-	3	-	-	1	-	1	-
8/5	CKAG5	-	1	-	112	-	-	22	1	-	-	-	-	-
8/6	CKAG6	-	-	-	2	-	-	12	-	-	-	-	-	-



Table 4. Catch per unit effort (CPUE) of marine fishes by species and station by the F/V *Great Pacific* in the Gulf of Alaska, July 17 - August 6, 2001. Dash (-) indicates no marine fish caught. Life history stages include juvenile (J), young of the year (YOY), and adult (A).

Date	Station ID	Pollock		Herr- ing	Cape- lin	Sand- lance	Wolf- eel	Pom- fret	Prow- fish	Sable- fish	J.Rock- fish	Dog- fish	Sand- fish	Squid	Salmon shark
		J	YOY												
7/17	IP2	-	-	-	-	-	1	-	-	-	-	5	-	-	-
7/17	IP4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/18	OC10	-	-	-	-	-	-	6	-	-	2	-	-	6	-
7/18	OC9	-	-	-	-	-	-	9	-	-	-	-	-	-	-
7/18	OC8	20	-	-	-	-	-	2	-	-	1	-	-	20	-
7/18	OC6	1	-	-	-	-	-	-	7	-	-	2	-	1	-
7/19	OC5	-	-	-	-	-	-	-	1	-	-	2	-	-	-
7/19	OC4	-	-	-	-	-	-	-	-	-	-	1	-	-	-
7/19	OC3	-	-	-	-	-	-	-	-	3	-	6	-	-	-
7/19	OC2	-	-	-	-	-	-	-	-	12	-	3	-	-	-
7/19	OC1	-	-	-	1	-	4	1	-	-	-	-	-	-	-
7/22	IB1	1	-	-	53	24	1	-	1	-	-	2	3	-	-
7/22	IB2	2	-	-	-	-	5	-	-	-	-	2	-	-	-
7/22	IB3	-	-	-	-	-	-	-	-	1	-	7	-	-	-
7/22	IB5	5	-	-	-	-	-	-	-	1	-	-	-	5	-
7/22	IB6	-	-	-	-	-	-	2	-	-	-	12	-	-	-
7/23	CSE5	-	-	-	-	-	-	6	-	-	-	-	-	-	-
7/23	CSE4	2	-	-	-	-	-	23	1	-	-	-	-	-	-
7/23	CSE3	-	-	-	-	-	-	19	1	1	-	-	-	-	-
7/23	CSE2	-	-	-	-	-	-	7	-	-	-	1	-	-	1
7/23	CSE1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
7/24	CC1	-	-	-	-	-	-	-	-	-	-	3	-	-	-
7/24	CC3	-	-	-	-	-	-	-	-	3	-	-	-	-	-
7/24	CC5	-	-	1	-	-	-	-	-	-	-	21	-	-	-
7/24	CC6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/24	CC7	-	-	-	-	-	-	-	-	-	-	1	-	-	-
7/25	GAK12	-	-	-	-	-	1	-	-	-	-	-	-	-	1
7/25	GAK11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/25	GAK10	1	-	-	-	-	-	-	-	-	1	-	-	500	-
7/25	GAK9	-	-	-	-	-	-	-	-	-	-	3	-	-	-
7/25	GAK8	-	-	-	-	-	-	-	-	-	-	18	-	-	-
7/26	GAK7	-	-	-	-	-	-	-	-	-	-	73	-	-	-
7/26	GAK6	-	-	-	-	-	-	-	1	1	-	6	-	-	-
7/26	GAK5	-	-	-	-	-	-	-	-	-	-	25	-	-	-
7/26	GAK4	-	-	-	-	-	-	-	-	1	-	70	-	-	-
7/26	GAK3	-	-	-	-	-	-	-	-	21	-	70	-	-	-
7/26	GAK3	-	-	-	-	-	-	-	1	3	-	21	-	-	-
7/27	GAK3	-	500	-	3700	-	-	-	-	8	-	23	-	-	-
7/27	GAK3	-	-	-	-	-	-	-	-	7	-	4	-	-	-

Table 4. (Con't) Catch per unit effort (CPUE) of marine fishes by species and station by the F/V *Great Pacific* in the Gulf of Alaska, July 17 - August 6, 2001. Dash (-) indicates no marine fish caught. Life history stages include juvenile (J), young of the year (YOY), and adult (A).

Date	Station ID	Pollock			Herring	Cape-ling	Sand-lance	Wolf-eel	Pom-fret	Prow-fish	Sable-fish	J.Rock-fish	Dog-fish	Sand-fish	Squid	Salmon shark
		J	YOY	A												
7/27	GAK3	-	-	-	-	-	-	-	-	11	-	3	-	-	-	
7/27	GAK3	-	-	-	-	-	-	-	-	-	-	36	-	-	-	
7/27	GAK2	-	-	2	6	-	-	-	-	-	-	1	-	-	-	
7/27	GAK1	-	-	-	-	-	-	-	1	4	-	-	-	-	-	
7/29	GP1	5	-	-	-	5	-	-	2	-	-	-	-	-	-	
7/29	GP3	1	-	-	1	-	-	-	19	-	-	-	-	-	-	
7/29	GP4	-	-	-	-	-	-	-	1	-	-	63	-	-	-	
7/29	GP5	-	-	-	-	-	-	-	-	-	-	5	-	-	-	
7/30	GP6	-	-	3	2000	-	-	-	1	-	-	-	-	500	-	
7/30	GP7	-	-	-	-	19	-	-	1	-	-	-	-	-	-	
7/30	GP8	4	-	-	-	-	-	-	2	-	-	-	-	2	-	
7/30	GP9	3	-	-	-	-	-	-	2	-	-	6	-	-	-	
7/30	GP10	-	-	-	-	1	-	-	2	-	-	63	-	-	-	
7/31	GP11	1	-	-	-	-	-	-	1	-	-	-	-	-	-	
7/31	GP12	-	-	-	-	-	-	4	2	33	1	-	-	-	-	
7/31	GP13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7/31	GP14	3	-	-	-	-	-	1	-	-	-	-	-	-	-	
8/1	CCH7	-	-	-	-	-	-	-	-	-	9	-	-	50	-	
8/1	CCH6	-	-	-	-	-	-	-	1	-	750	-	-	-	-	
8/1	CCH5	-	-	-	-	-	-	-	-	-	160	-	-	-	-	
8/1	CCH4	1	-	-	-	-	1	3	4	-	1	-	-	-	-	
8/2	CCH3	16	-	-	-	-	-	-	3	-	-	-	-	-	-	
8/2	CCH2	100	-	-	-	3	-	-	1	-	-	-	-	-	-	
8/2	CCH1	-	-	-	-	12	-	-	-	-	-	-	5	-	-	
8/3	CN1	3	1000	-	1	3000	1	-	2	-	-	-	2	-	-	
8/3	CN2	-	-	1	-	-	100	-	2	-	-	-	-	-	-	
8/3	CN3	100	-	1	1	60	5	-	2	-	-	-	3	-	-	
8/4	CK1	1	100	1	3	50	75	-	2	-	-	-	1	-	1	
8/4	CK2	-	2	3	1	-	-	-	-	-	-	-	16	-	-	
8/4	CK3	-	50	1	-	-	-	-	4	-	-	-	6	-	-	
8/5	CKAG1	-	-	1	-	500	1500	-	-	-	-	-	7500	-	-	
8/5	CKAG2	-	-	-	-	-	-	-	-	-	-	-	10	-	-	
8/5	CKAG3	-	-	-	-	-	-	-	3	-	-	-	6	-	-	
8/5	CKAG4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
8/5	CKAG5	-	-	-	-	-	-	-	2	-	60	-	-	-	-	
8/6	CKAG6	-	-	-	-	-	-	-	1	-	-	-	-	-	-	

Table 5. Number sampled (*n*), average (Ave) and standard deviation (Stdv) of length (mm) and weight (g) by transect of juvenile pink, chum, sockeye and coho salmon captured by the F/V *Great Pacific* in the Gulf of Alaska, July 17 - August 6, 2001.

Transect	Pink					Chum					Sockeye					Coho				
	<i>n</i>	Length		Weight		<i>n</i>	Length		Weight		<i>n</i>	Length		Weight		<i>n</i>	Length		Weight	
		Ave	Stdv	Ave	Stdv		Ave	Stdv	Ave	Stdv		Ave	Stdv	Ave	Stdv		Ave	Stdv		
Icy Point	60	120.6	9.2	18.4	5.4	60	121.4	11.3	16.7	6.3	12	145.0	10.8	35.5	7.6	12	238.7	37.8	171.9	83.3
Ocean Cape	54	118.1	12.9	16.2	6.0	69	127.5	17.7	20.4	13.7	31	180.5	25.1	65.5	27.6	55	197.3	40.2	104.5	65.2
Cape Yakataga	89	123.5	14.9	19.4	7.4	41	128.8	15.3	22.5	9.2	24	161.6	38.4	53.8	29.7	62	218.2	36.4	135.0	69.1
Cape St. Elias	8	135.1	5.4	23.3	5.7	24	141.2	12.0	27.9	8.5	17	191.8	26.8	79.2	23.9	31	204.3	46.8	120.2	102.9
Cape Cleare	63	117.9	12.6	14.8	5.3	45	130.3	15.6	22.5	10.0	40	183.6	40.2	72.3	38.6	50	215.9	31.8	128.3	61.5
Seward Line	277	124.5	12.1	18.3	6.0	134	131.7	10.8	23.0	5.9	84	178.7	38.3	67.9	38.3	124	230.3	30.1	154.4	68.6
Gore Point	126	132.4	15.1	21.3	7.9	77	135.6	12.2	24.1	7.6	47	182.4	23.0	66.7	23.5	37	256.9	29.5	213.2	70.7
Cape Chiniak	1	143.0		27.0		1	146.0		32.0		2	208.0	18.4	95.5	24.7	6	271.8	30.2	264.0	91.8
Cape Nukshak	91	121.3	14.1	16.6	6.1	90	118.8	15.8	17.6	7.8	30	120.1	15.7	18.9	9.0	21	229.6	30.3	157.2	85.1
Cape Kekurnoi	90	138.1	15.2	25.0	9.4	68	143.3	18.7	30.5	12.1	21	156.0	19.8	39.5	16.8	29	245.9	15.2	182.5	34.1
Cape Kaguyak	4	159.0	12.4	37.3	8.7	3	182.7	11.2	58.3	9.5	1	165.0		52.0		12	272.9	32.4	258.8	91.9

**Table 6 CTD Casts**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP19801.01	CTD	1	1	IP2	17	7	2235	S	58.2140	-137.2340	117	0	
GP19801.02	CTD	1	1	IP2	17	7	2238	E	58.2120	-137.2330	119	100	
GP19901.03	CTD	2	2	IP4	18	7	0308	S	57.9000	-137.5480	600	0	
GP19901.04	CTD	2	2	IP4	18	7	0317	E	57.8990	-137.5450	622	200	
GP19901.09	CTD	3	3	OC10	18	7	1453	S	58.0170	-140.4220	>2000	0	
GP19901.10	CTD	3	3	OC10	18	7	1501	E	58.0130	-140.4240	>2000	200	
GP19901.15	CTD	4	4	OC9	18	7	1812	S	58.1730	-140.3490	>2000	0	
GP19901.16	CTD	4	4	OC9	18	7	1823	E	58.1650	-140.3450	>2000	200	
GP19901.21	CTD	5	5	OC8	18	7	2109	S	58.3220	-140.2920	>2000	0	
GP19901.22	CTD	5	5	OC8	18	7	2118	E	58.3200	-140.2860	>2000	200	
GP20001.01	CTD	6	6	OC6	19	7	0110	S	58.6630	-140.1880	229	0	
GP20001.02	CTD	6	6	OC6	19	7	0122	E	58.6630	-140.1840	223	200	
GP20001.07	CTD	7	7	OC5	19	7	1425	S	58.8900	-140.1100	162	0	
GP20001.08	CTD	7	7	OC5	19	7	1433	E	58.8900	-140.1100	162	160	
GP20001.13	CTD	8	8	OC4	19	7	1712	S	59.0490	-140.0520	122	0	
GP20001.14	CTD	8	8	OC4	19	7	1719	E	59.0490	-140.0500	121	120	
GP20001.19	CTD	9	9	OC3	19	7	2015	S	59.2200	-139.9630	116	0	
GP20001.20	CTD	9	9	OC3	19	7	2020	E	59.2200	-139.9950	116	115	
GP20001.25	CTD	10	10	OC2	19	7	2302	S	59.3810	-139.9300	176	0	
GP20001.26	CTD	10	10	OC2	19	7	2312	E	59.3790	-139.9290	176	175	
GP20101.03	CTD	11	11	OC1	20	7	0139	S	59.4870	-139.8810	79	0	
GP20101.04	CTD	11	11	OC1	20	7	0142	E	59.4850	-139.8810	91	80	
GP20301.02	CTD	12	14	IB1	22	7	1342	S	60.0430	-142.4980	27	0	
GP20301.03	CTD	12	14	IB1	22	7	1345	E	60.0440	-142.5000	26	25	
GP20301.10	CTD	13	15	IB2	22	7	1629	S	59.9020	-142.4910	97	0	
GP20301.11	CTD	13	15	IB2	22	7	1634	E	59.9040	-142.4930	99	97	
GP20301.16	CTD	14	16	IB3	22	7	1935	S	59.7370	-142.5270	187	0	
GP20301.17	CTD	14	16	IB3	22	7	1945	E	59.7380	-142.5310	190	185	
GP20301.22	CTD	15	17	IB5	22	7	2302	S	59.5220	-142.6000	166	0	
GP20301.23	CTD	15	17	IB5	22	7	2310	E	59.5220	-142.6000	164	163	
GP20301.28	CTD	16	18	IB6	23	7	0148	S	59.3020	-142.6460	>2000	0	
GP20301.29	CTD	16	18	IB6	23	7	0159	E	59.3000	-142.6550	>2000	200	
GP20401.01	CTD	17	19	CSE5	23	7	1336	S	59.1500	-144.6040	>2000	0	
GP20401.02	CTD	17	19	CSE5	23	7	1348	E	59.1520	-144.6050	>2000	200	
GP20401.09	CTD	18	20	CSE4	23	7	1645	S	59.3230	-144.6110	>2000	0	
GP20401.10	CTD	18	20	CSE4	23	7	1658	E	59.3230	-144.6120	>2000	200	
GP20401.15	CTD	19	21	CSE3	23	7	1939	S	59.5210	-144.6100	187	0	
GP20401.16	CTD	19	21	CSE3	23	7	1947	E	59.5210	-144.6120	179	175	
GP20401.24	CTD	20	22	CSE2	23	7	2254	S	59.6340	-144.5830	141	0	
GP20401.25	CTD	20	22	CSE2	23	7	2258	E	59.6340	-144.5840	141	135	
GP20501.02	CTD	21	23	CSE1	24	7	0155	S	59.7830	-144.6840	46	0	
GP20501.03	CTD	21	23	CSE1	24	7	0158	E	59.7820	-144.6840	46	43	
GP20601.01	CTD	22	24	CC1	24	7	1405	S	59.7130	-147.8250	71	0	
GP20601.02	CTD	22	24	CC1	24	7	1409	E	59.7130	-147.8280	71	70	
GP20601.09	CTD	23	25	CC3	24	7	1715	S	59.5640	-147.6080	102	0	
GP20601.10	CTD	23	25	CC3	24	7	1720	E	59.5620	-147.6080	102	100	
GP20601.16	CTD	24	26	CC5	24	7	2040	S	59.3560	-147.3370	155	0	
GP20601.17	CTD	24	26	CC5	24	7	2046	E	59.3560	-147.3350	155	150	
GP20601.22	CTD	25	27	CC6	24	7	2321	S	59.2280	-147.1460	201	0	
GP20601.23	CTD	25	27	CC6	24	7	2332	E	59.2280	-147.1440	203	200	
GP20601.29	CTD	26	28	CC7	25	7	0307	S	59.0510	-146.9590	>2000	0	

**Table 6 CTD Casts (cont'd)**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20601.30	CTD	26	28	CC7	25	7	0316	E	59.0530	-146.9500	>2000	200	
GP20701.01	CTD	27	29	GAK12	25	7	1343	S	58.2410	-147.9380	>2000	0	
GP20701.02	CTD	27	29	GAK12	25	7	1357	E	58.2400	-147.9430	>2000	200	
GP20701.09	CTD	28	30	GAK11	25	7	1644	S	58.3910	-148.0730	1381	0	
GP20701.10	CTD	28	30	GAK11	25	7	1653	E	58.3950	-148.0700	1379	200	
GP20701.15	CTD	29	31	GAK10	25	7	1937	S	58.5410	-148.2090	1421	0	
GP20701.16	CTD	29	31	GAK10	25	7	1948	E	58.5400	-148.2070	1441	200	
GP20701.21	CTD	30	32	GAK9	25	7	2225	S	58.6820	-148.3540	269	0	
GP20701.22	CTD	30	32	GAK9	25	7	2235	E	58.6830	-148.3590	269	200	
GP20701.28	CTD	31	33	GAK8	26	7	0140	S	58.7980	-148.5030	283	0	
GP20701.29	CTD	31	33	GAK8	26	7	0150	E	58.7980	-148.5000	282	200	
GP20801.01	CTD	32	34	GAK7	26	7	1335	S	58.9720	-148.6350	234	0	
GP20801.02	CTD	32	34	GAK7	26	7	1349	E	58.9720	-148.6340	234	200	
GP20801.10	CTD	33	35	GAK6	26	7	1636	S	59.1170	-148.7650	144	0	
GP20801.11	CTD	33	35	GAK6	26	7	1643	E	59.1170	-148.7610	145	140	
GP20801.16	CTD	34	36	GAK5	26	7	1926	S	59.2620	-148.9020	157	0	
GP20801.17	CTD	34	36	GAK5	26	7	1933	E	59.2630	-148.9000	157	155	
GP20801.23	CTD	35	37	GAK4	26	7	2240	S	59.4090	-149.0520	190	0	
GP20801.24	CTD	35	37	GAK4	26	7	2251	E	59.4100	-149.0540	192	190	
GP20801.29	CTD	36	38	GAK3	27	7	0117	S	59.5450	-149.2260	218	0	
GP20801.30	CTD	36	38	GAK3	27	7	0128	E	59.5440	-149.2280	219	200	
GP20801.37	CTD	37	38	GAK3	27	7	0532	S	59.5550	-149.1850	205	0	
GP20801.38	CTD	37	38	GAK3	27	7	0545	E	59.5550	-149.1820	203	200	
GP20901.01	CTD	38	38	GAK3	27	7	0934	S	59.5540	-149.1840	203	0	
GP20901.02	CTD	38	38	GAK3	27	7	0948	E	59.5540	-149.1810	203	200	
GP20901.07	CTD	39	38	GAK3	27	7	1332	S	59.5550	-149.1900	207	0	
GP20901.08	CTD	39	38	GAK3	27	7	1344	E	59.5550	-149.1920	207	200	
GP20901.13	CTD	40	38	GAK3	27	7	1729	S	59.5530	-149.1940	203	0	
GP20901.14	CTD	40	38	GAK3	27	7	1738	E	59.5540	-149.1950	207	200	
GP20901.19	CTD	41	38	GAK3	27	7	2128	S	59.5520	-149.1920	205	0	
GP20901.20	CTD	41	38	GAK3	27	7	2139	E	59.5510	-149.1900	205	200	
GP20901.26	CTD	42	39	GAK2	28	7	0033	S	59.6910	-149.3320	221	0	
GP20901.27	CTD	42	39	GAK2	28	7	0043	E	59.6900	-149.3330	221	200	
GP20901.33	CTD	43	40	GAK1	28	7	0328	S	59.8420	-149.4880	262	0	
GP20901.34	CTD	43	40	GAK1	28	7	0341	E	59.8420	-149.4900	263	200	
GP21101.01	CTD	44	41	GP1	29	7	1525	S	59.1860	-150.9530	35	0	
GP21101.02	CTD	44	41	GP1	29	7	1531	E	59.1850	-150.9530	29	27	
GP21101.07	CTD	45	42	GP3	29	7	1914	S	58.8830	-150.7340	121	0	
GP21101.08	CTD	45	42	GP3	29	7	1921	E	58.8830	-150.7370	121	120	
GP21101.15	CTD	46	43	GP4	29	7	2225	S	58.7330	-150.6330	183	0	
GP21101.16	CTD	46	43	GP4	29	7	2233	E	58.7330	-150.6320	183	180	
GP21101.21	CTD	47	44	GP5	30	7	0113	S	58.5830	-150.4900	176	0	
GP21101.22	CTD	47	44	GP5	30	7	0124	E	58.5830	-150.4900	177	175	
GP21201.01	CTD	48	45	GP6	30	7	1430	S	58.4160	-150.3750	66	0	
GP21201.02	CTD	48	45	GP6	30	7	1434	E	58.4160	-150.3770	66	64	
GP21201.09	CTD	49	46	GP7	30	7	1737	S	58.2670	-150.2680	57	0	
GP21201.10	CTD	49	46	GP7	30	7	1741	E	58.2680	-150.2700	57	55	
GP21201.15	CTD	50	47	GP8	30	7	2029	S	58.1160	-150.1530	252	0	
GP21201.16	CTD	50	47	GP8	30	7	2039	E	58.1190	-150.1550	247	200	
GP21201.21	CTD	51	48	GP9	30	7	2328	S	57.9690	-150.0380	245	0	

Table 6 CTD Casts (cont'd)

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21201.22	CTD	51	48	GP9	30	7	2338	E	57.9690	-150.0360	245	200	
GP21201.27	CTD	52	49	GP10	31	7	0209	S	57.8340	-149.9290	247	0	
GP21201.28	CTD	52	49	GP10	31	7	0220	E	57.8340	-149.9270	247	200	
GP21301.01	CTD	53	50	GP11	31	7	1350	S	57.6490	-149.8050	578	0	
GP21301.02	CTD	53	50	GP11	31	7	1403	E	57.6470	-149.7990	607	200	
GP21301.09	CTD	54	51	GP12	31	7	1657	S	57.4890	-149.6920	1450	0	
GP21301.10	CTD	54	51	GP12	31	7	1708	E	57.4870	-149.6930	1458	200	
GP21301.15	CTD	55	52	GP13	31	7	1952	S	57.3410	-149.5620	>2000	0	
GP21301.16	CTD	55	52	GP13	31	7	2005	E	57.3410	-149.5620	>2000	200	
GP21301.21	CTD	56	53	GP14	31	7	2300	S	57.1900	-149.4330	>2000	0	
GP21301.22	CTD	56	53	GP14	31	7	2309	E	57.1890	-149.4360	>2000	200	
GP21401.01	CTD	57	54	CCH7	1	8	1350	S	56.2800	-150.8510	>2000	0	
GP21401.02	CTD	57	54	CCH7	1	8	1403	E	56.2750	-150.8510	>2000	200	
GP21401.09	CTD	58	55	CCH6	1	8	1717	S	56.4960	-151.0640	>2000	0	
GP21401.10	CTD	58	55	CCH6	1	8	1728	E	56.4950	-151.0660	>2000	200	
GP21401.15	CTD	59	56	CCH5	1	8	2033	S	56.7100	-151.2840	1423	0	
GP21401.16	CTD	59	56	CCH5	1	8	2044	E	56.7070	-151.2870	1423	200	
GP21401.21	CTD	60	57	CCH4	1	8	2356	S	56.9310	-151.5010	364	0	
GP21401.22	CTD	60	57	CCH4	2	8	0001	E	56.9300	-151.5010	366	200	
GP21501.01	CTD	61	58	CCH3	2	8	1351	S	57.1500	-151.7310	75	0	
GP21501.02	CTD	61	58	CCH3	2	8	1357	E	57.1490	-151.7310	75	73	
GP21501.07	CTD	62	59	CCH2	2	8	1718	S	57.3690	-151.9430	64	0	
GP21501.08	CTD	62	59	CCH2	2	8	1721	E	57.3680	-151.9440	64	62	
GP21501.13	CTD	63	60	CCH1	2	8	2018	S	57.5760	-152.1460	37	0	
GP21501.14	CTD	63	60	CCH1	2	8	2020	E	57.5770	-152.1460	37	35	
GP21601.01	CTD	64	61	CN1	3	8	1357	S	58.0500	-153.4520	73	0	
GP21601.02	CTD	64	61	CN1	3	8	1402	E	58.0500	-153.4510	73	72	
GP21601.07	CTD	65	62	CN2	3	8	1716	S	58.1830	-153.6820	183	0	
GP21601.08	CTD	65	62	CN2	3	8	1726	E	58.1810	-153.6800	183	180	
GP21601.15	CTD	66	63	CN3	3	8	2330	S	58.3660	-153.9330	62	0	
GP21601.16	CTD	66	63	CN3	3	8	2332	E	58.3660	-153.9330	62	60	
GP21701.01	CTD	67	64	CK1	4	8	1359	S	57.6990	-155.2840	274	0	
GP21701.02	CTD	67	64	CK1	4	8	1411	E	57.6950	-155.2860	280	200	
GP21701.07	CTD	68	65	CK2	4	8	1704	S	57.5810	-155.0500	229	0	
GP21701.08	CTD	68	65	CK2	4	8	1716	E	57.5780	-155.0500	227	200	
GP21701.15	CTD	69	66	CK3	4	8	2247	S	57.4320	-154.7670	79	0	
GP21701.16	CTD	69	66	CK3	4	8	2251	E	57.4310	-154.7670	75	74	
GP21801.01	CTD	70	67	CKAG1	5	8	1355	S	56.6990	-153.9330	24	0	
GP21801.02	CTD	70	67	CKAG1	5	8	1356	E	56.6990	-153.9330	24	23	
GP21801.07	CTD	71	68	CKAG2	5	8	1638	S	56.4800	-153.7100	88	0	
GP21801.08	CTD	71	68	CKAG2	5	8	1641	E	56.4810	-153.7110	88	85	
GP21801.15	CTD	72	69	CKAG3	5	8	1950	S	56.2610	-153.4960	80	0	
GP21801.16	CTD	72	69	CKAG3	5	8	1952	E	56.2600	-153.4970	82	79	
GP21801.21	CTD	73	70	CKAG4	5	8	2231	S	56.1120	-153.3420	958	0	
GP21801.22	CTD	73	70	CKAG4	5	8	2243	E	56.1120	-153.3470	958	200	
GP21801.27	CTD	74	71	CKAG5	6	8	0156	S	55.9010	-153.1320	>2000	0	
GP21801.28	CTD	74	71	CKAG5	6	8	0207	E	55.9010	-153.1350	>2000	200	
GP21901.01	CTD	75	72	CKAG6	6	8	1358	S	55.6800	-152.9100	>2000	0	
GP21901.02	CTD	75	72	CKAG6	6	8	1411	E	55.6790	-152.9090	>2000	200	

**Table 7 Trawls**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP19901.01	Trawl	1	1	IP2	18	7	0010	S	58.1950	-137.1960	117	0	
GP19901.02	Trawl	1	1	IP2	18	7	0040	E	58.1900	-137.2730	121	0	
GP19901.07	Trawl	2	2	IP4	18	7	0418	S	57.8940	-137.5040	589	0	
GP19901.08	Trawl	2	2	IP4	18	7	0448	E	57.8910	-137.5710	819	0	
GP19901.13	Trawl	3	3	OC10	18	7	1603	S	57.9970	-140.4750	>2000	0	
GP19901.14	Trawl	3	3	OC10	18	7	1633	E	57.9920	-140.4160	>2000	0	
GP19901.19	Trawl	4	4	OC9	18	7	1922	S	58.1520	-140.3330	>2000	0	
GP19901.20	Trawl	4	4	OC9	18	7	1952	E	58.1870	-140.3330	>2000	0	
GP19901.25	Trawl	5	5	OC8	18	7	2217	S	58.3080	-140.2570	>2000	0	
GP19901.26	Trawl	5	5	OC8	18	7	2247	E	58.3390	-140.2460	>2000	0	
GP20001.05	Trawl	6	6	OC6	19	7	0216	S	58.6460	-140.1720	338	0	
GP20001.06	Trawl	6	6	OC6	19	7	0246	E	58.6820	-140.1670	183	0	
GP20001.11	Trawl	7	7	OC5	19	7	1524	S	58.8670	-140.1080	164	0	
GP20001.12	Trawl	7	7	OC5	19	7	1554	E	58.9100	-140.1010	156	0	
GP20001.17	Trawl	8	8	OC4	19	7	1826	S	59.0340	-140.0480	125	0	
GP20001.18	Trawl	8	8	OC4	19	7	1856	E	59.0730	-140.0350	119	0	
GP20001.23	Trawl	9	9	OC3	19	7	2110	S	59.1920	-139.9950	106	0	
GP20001.24	Trawl	9	9	OC3	19	7	2140	E	59.2370	-139.9780	128	0	
GP20101.01	Trawl	10	10	OC2	20	7	0010	S	59.3600	-139.9250	176	0	
GP20101.02	Trawl	10	10	OC2	20	7	0040	E	59.3960	-139.9100	168	0	
GP20101.07	Trawl	11	11	OC1	20	7	0231	S	59.5090	-139.8780	40	0	
GP20101.08	Trawl	11	11	OC1	20	7	0301	E	59.4690	-139.9000	113	0	
GP20301.08	Trawl	12	14	IB1	22	7	1445	S	60.0390	-142.5440	26	0	
GP20301.09	Trawl	12	14	IB1	22	7	1515	E	60.0010	-142.5470	68	0	
GP20301.14	Trawl	13	15	IB2	22	7	1727	S	59.9320	-142.5000	97	0	
GP20301.15	Trawl	13	15	IB2	22	7	1757	E	59.9030	-142.5300	107	0	
GP20301.20	Trawl	14	16	IB3	22	7	2040	S	59.7700	-142.5480	166	0	
GP20301.21	Trawl	14	16	IB3	22	7	2110	E	59.7360	-142.5680	247	0	
GP20301.26	Trawl	15	17	IB5	22	7	2350	S	59.5210	-142.5990	187	0	
GP20301.27	Trawl	15	17	IB5	23	7	0020	E	59.4820	-142.6140	1024	0	
GP20301.34	Trawl	16	18	IB6	23	7	0308	S	59.3140	-142.6440	>2000	0	
GP20301.35	Trawl	16	18	IB6	23	7	0338	E	59.2690	-142.6620	>2000	0	
GP20401.07	Trawl	17	19	CSE5	23	7	1455	S	59.1330	-144.6020	>2000	0	
GP20401.08	Trawl	17	19	CSE5	23	7	1525	E	59.1740	-144.6020	>2000	0	
GP20401.13	Trawl	18	20	CSE4	23	7	1748	S	59.3130	-144.6060	>2000	0	
GP20401.14	Trawl	18	20	CSE4	23	7	1818	E	59.3510	-144.6040	>2000	0	
GP20401.21	Trawl	19	21	CSE3	23	7	2051	S	59.4930	-144.6300	631	0	
GP20401.22	Trawl	19	21	CSE3	23	7	2121	E	59.5310	-144.6370	168	0	
GP20401.28	Trawl	20	22	CSE2	23	7	2352	S	59.6030	-144.5990	139	0	
GP20501.01	Trawl	20	22	CSE2	24	7	0022	E	59.6370	-144.6100	139	0	
GP20501.08	Trawl	21	23	CSE1	24	7	0303	S	59.7880	-144.6660	40	0	
GP20501.09	Trawl	21	23	CSE1	24	7	0333	E	59.7760	-144.7400	51	0	
GP20601.07	Trawl	22	24	CC1	24	7	1519	S	59.7430	-147.8110	58	0	
GP20601.08	Trawl	22	24	CC1	24	7	1549	E	59.7050	-147.8100	75	0	
GP20601.13	Trawl	23	25	CC3	24	7	1807	S	59.5830	-147.6480	104	0	
GP20601.14	Trawl	23	25	CC3	24	7	1837	E	59.5500	-147.6130	97	0	
GP20601.20	Trawl	24	26	CC5	24	7	2135	S	59.3760	-147.3820	113	0	
GP20601.21	Trawl	24	26	CC5	24	7	2205	E	59.3450	-147.3360	154	0	
GP20601.26	Trawl	25	27	CC6	25	7	0025	S	59.2530	-147.1880	188	0	
GP20601.27	Trawl	25	27	CC6	25	7	0055	E	59.2240	-147.1420	212	0	

**Table 7 Trawls (cont'd)**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20601.35	Trawl	26	28	CC7	25	7	0419	S	59.0770	-146.9620	1931	0	
GP20601.36	Trawl	26	28	CC7	25	7	0449	E	59.0420	-146.9020	>2000	0	
GP20701.07	Trawl	27	29	GAK12	25	7	1450	S	58.2150	-147.9240	>2000	0	
GP20701.08	Trawl	27	29	GAK12	25	7	1520	E	58.2420	-147.9630	>2000	0	
GP20701.13	Trawl	28	30	GAK11	25	7	1745	S	58.7090	-148.0420	1542	0	
GP20701.14	Trawl	28	30	GAK11	25	7	1815	E	58.4100	-148.0700	1372	0	
GP20701.19	Trawl	29	31	GAK10	25	7	2035	S	58.5200	-148.1870	1575	0	
GP20701.20	Trawl	29	31	GAK10	25	7	2105	E	58.5510	-148.2220	1339	0	
GP20701.25	Trawl	30	32	GAK9	25	7	2346	S	58.6550	-148.3440	258	0	
GP20701.26	Trawl	30	32	GAK9	26	7	0016	E	58.6890	-148.3910	263	0	
GP20701.32	Trawl	31	33	GAK8	26	7	0238	S	58.7770	-148.4610	272	0	
GP20701.33	Trawl	31	33	GAK8	26	7	0308	E	58.8110	-148.4940	280	0	
GP20801.07	Trawl	32	34	GAK7	26	7	1443	S	58.9470	-148.6180	247	0	
GP20801.08	Trawl	32	34	GAK7	26	7	1513	E	58.9770	-148.6580	232	0	
GP20801.14	Trawl	33	35	GAK6	26	7	1730	S	59.0910	-148.7130	159	0	
GP20801.15	Trawl	33	35	GAK6	26	7	1800	E	59.1190	-148.7440	144	0	
GP20801.20	Trawl	34	36	GAK5	26	7	2022	S	59.2350	-148.8690	148	0	
GP20801.21	Trawl	34	36	GAK5	26	7	2052	E	59.2600	-148.9120	159	0	
GP20801.27	Trawl	35	37	GAK4	26	7	2338	S	59.4110	-149.0200	187	0	
GP20801.28	Trawl	35	37	GAK4	27	7	0008	E	59.4440	-149.0650	190	0	
GP20801.35	Trawl	36	38	GAK3	27	7	0240	S	59.5410	-149.1790	207	0	
GP20801.36	Trawl	36	38	GAK3	27	7	0310	E	59.5710	-149.2200	210	0	
GP20801.41	Trawl	37	38	GAK3	27	7	0630	S	59.5360	-149.1700	203	0	
GP20801.42	Trawl	37	38	GAK3	27	7	0700	E	59.5650	-149.2130	207	0	
GP20901.05	Trawl	38	38	GAK3	27	7	1036	S	59.5360	-149.1750	203	0	
GP20901.06	Trawl	38	38	GAK3	27	7	1106	E	59.5630	-149.2090	207	0	
GP20901.11	Trawl	39	38	GAK3	27	7	1441	S	59.5420	-149.1880	207	0	
GP20901.12	Trawl	39	38	GAK3	27	7	1511	E	59.5760	-149.2180	207	0	
GP20901.17	Trawl	40	38	GAK3	27	7	1829	S	59.5380	-149.1690	203	0	
GP20901.18	Trawl	40	38	GAK3	27	7	1859	E	59.5680	-149.2160	208	0	
GP20901.23	Trawl	41	38	GAK3	27	7	2230	S	59.5350	-149.1690	203	0	
GP20901.24	Trawl	41	38	GAK3	27	7	2300	E	59.5670	-149.1960	203	0	
GP20901.30	Trawl	42	39	GAK2	28	7	0131	S	59.6720	-149.3190	214	0	
GP20901.31	Trawl	42	39	GAK2	28	7	0201	E	59.7000	-149.3440	227	0	
GP20901.39	Trawl	43	40	GAK1	28	7	0433	S	59.8360	-149.4610	262	0	
GP20901.40	Trawl	43	40	GAK1	28	7	0503	E	59.8690	-149.4950	245	0	
GP21101.05	Trawl	44	41	GP1	29	7	1630	S	59.1560	-150.9310	69	0	
GP21101.06	Trawl	44	41	GP1	29	7	1700	E	59.1260	-150.8860	86	0	
GP21101.13	Trawl	45	42	GP3	29	7	2029	S	58.8920	-150.7480	134	0	
GP21101.14	Trawl	45	42	GP3	29	7	2059	E	58.8590	-150.7160	137	0	
GP21101.19	Trawl	46	43	GP4	29	7	2330	S	58.7490	-150.6460	181	0	
GP21101.20	Trawl	46	43	GP4	30	7	0000	E	58.7110	-150.6050	196	0	
GP21101.27	Trawl	47	44	GP5	30	7	0222	S	58.6000	-150.5170	192	0	
GP21101.28	Trawl	47	44	GP5	30	7	0252	E	58.5710	-150.4730	168	0	
GP21201.07	Trawl	48	45	GP6	30	7	1545	S	58.4370	-150.3820	70	0	
GP21201.08	Trawl	48	45	GP6	30	7	1615	E	58.4010	-150.3700	64	0	
GP21201.13	Trawl	49	46	GP7	30	7	1826	S	58.2900	-150.2900	49	0	
GP21201.14	Trawl	49	46	GP7	30	7	1856	E	58.2660	-150.2620	57	0	
GP21201.19	Trawl	50	47	GP8	30	7	2140	S	59.1330	-150.1460	249	0	
GP21201.20	Trawl	50	47	GP8	30	7	2210	E	58.0960	-150.1160	296	0	



**Table 7 Trawls (cont'd)**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21201.25	Trawl	51	48	GP9	31	7	0032	S	57.9740	-150.0380	245	0	
GP21201.26	Trawl	51	48	GP9	31	7	0102	E	57.9400	-150.0090	243	0	
GP21201.33	Trawl	52	49	GP10	31	7	0315	S	57.8450	-149.9400	249	0	
GP21201.34	Trawl	52	49	GP10	31	7	0345	E	57.8130	-149.8950	247	0	
GP21301.07	Trawl	53	50	GP11	31	7	1515	S	57.6550	-149.8140	550	0	
GP21301.08	Trawl	53	50	GP11	31	7	1545	E	57.6140	-149.7860	808	0	
GP21301.13	Trawl	54	51	GP12	31	7	1757	S	57.5020	-149.7070	1415	0	
GP21301.14	Trawl	54	51	GP12	31	7	1827	E	57.4720	-149.6800	1805	0	
GP21301.19	Trawl	55	52	GP13	31	7	2052	S	57.3580	-149.5780	>2000	0	
GP21301.20	Trawl	55	52	GP13	31	7	2122	E	57.3310	-149.5510	>2000	0	
GP21301.27	Trawl	56	53	GP14	1	8	0015	S	57.1980	-149.4560	>2000	0	
GP21301.28	Trawl	56	53	GP14	1	8	0045	E	57.1700	-149.4280	>2000	0	
GP21401.07	Trawl	57	54	CCH7	1	8	1502	S	56.2630	-150.8650	>2000	0	
GP21401.08	Trawl	57	54	CCH7	1	8	1532	E	56.2960	-150.8870	>2000	0	
GP21401.13	Trawl	58	55	CCH6	1	8	1819	S	56.4790	-151.0530	>2000	0	
GP21401.14	Trawl	58	55	CCH6	1	8	1849	E	56.5140	-151.0890	>2000	0	
GP21401.19	Trawl	59	56	CCH5	1	8	2140	S	56.6970	-151.2860	1580	0	
GP21401.20	Trawl	59	56	CCH5	1	8	2210	E	56.7330	-151.3190	808	0	
GP21401.25	Trawl	60	57	CCH4	2	8	0054	S	56.9130	-151.4880	571	0	
GP21401.26	Trawl	60	57	CCH4	2	8	0124	E	56.9450	-151.5210	205	0	
GP21501.05	Trawl	61	58	CCH3	2	8	1447	S	57.1280	-151.7160	73	0	
GP21501.06	Trawl	61	58	CCH3	2	8	1517	E	57.1580	-151.7360	75	0	
GP21501.11	Trawl	62	59	CCH2	2	8	1807	S	57.3590	-151.9370	64	0	
GP21501.12	Trawl	62	59	CCH2	2	8	1837	E	57.3960	-151.9690	66	0	
GP21501.19	Trawl	63	60	CCH1	2	8	2100	S	57.3960	-152.1200	73	0	
GP21501.20	Trawl	63	60	CCH1	2	8	2130	E	57.5760	-152.0780	66	0	
GP21601.05	Trawl	64	61	CN1	3	8	1448	S	58.0410	-153.4380	82	0	
GP21601.06	Trawl	64	61	CN1	3	8	1518	E	58.0730	-153.4890	79	0	
GP21601.13	Trawl	65	62	CN2	3	8	1836	S	58.1780	-153.6760	183	0	
GP21601.14	Trawl	65	62	CN2	3	8	1906	E	58.2030	-153.7180	183	0	
GP21601.19	Trawl	66	63	CN3	3	8	0023	S	58.3620	-153.9290	88	0	
GP21601.20	Trawl	66	63	CN3	3	8	0053	E	58.3270	-153.8820	241	0	
GP21701.05	Trawl	67	64	CK1	4	8	1502	S	57.6980	-155.2790	280	0	
GP21701.06	Trawl	67	64	CK1	4	8	1532	E	57.6730	-155.2270	287	0	
GP21701.13	Trawl	68	65	CK2	4	8	1825	S	57.5910	-155.0710	232	0	
GP21701.14	Trawl	68	65	CK2	4	8	1855	E	57.5670	-155.0280	223	0	
GP21701.19	Trawl	69	66	CK3	4	8	2340	S	57.4220	-154.7580	60	0	
GP21701.20	Trawl	69	66	CK3	5	8	0010	E	57.4510	-154.8010	148	0	
GP21801.05	Trawl	70	67	CKAG1	5	8	1439	S	56.6730	-153.8980	59	0	
GP21801.06	Trawl	70	67	CKAG1	5	8	1509	E	56.6360	-153.8640	59	0	
GP21801.13	Trawl	71	68	CKAG2	5	8	1729	S	56.4900	-153.7240	86	0	
GP21801.14	Trawl	71	68	CKAG2	5	8	1759	E	56.4550	-153.6880	84	0	
GP21801.19	Trawl	72	69	CKAG3	5	8	2036	S	56.2740	-153.5110	73	0	
GP21801.20	Trawl	72	69	CKAG3	5	8	2106	E	56.2480	-153.4830	84	0	
GP21801.25	Trawl	73	70	CKAG4	5	8	2325	S	56.1270	-153.3580	936	0	
GP21801.26	Trawl	73	70	CKAG4	5	8	2355	E	56.0970	-153.3320	911	0	
GP21801.31	Trawl	74	71	CKAG5	6	8	0300	S	55.9090	-153.1440	>2000	0	
GP21801.32	Trawl	74	71	CKAG5	6	8	0330	E	55.8750	-153.1020	>2000	0	
GP21901.07	Trawl	75	72	CKAG6	6	8	1520	S	55.6930	-152.9200	>2000	0	
GP21901.08	Trawl	75	72	CKAG6	6	8	1550	E	55.6570	-152.8840	>2000	0	

**Table 8 Tucker Trawls**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP19801.03	Tucker	1	1	IP2	17	7	2307	S	58.2030	-137.2350	123	0	
GP19801.04	Tucker	1	1	IP2	17	7	2312	E	58.2020	-137.2440	123	0	
GP19901.05	Tucker	2	2	IP4	18	7	0328	S	57.8960	-137.5420	622	0	
GP19901.06	Tucker	2	2	IP4	18	7	0333	E	57.8950	-137.5450	732	0	
GP19901.11	Tucker	3	3	OC10	18	7	1515	S	58.0080	-140.4310	>2000	0	
GP19901.12	Tucker	3	3	OC10	18	7	1520	E	58.0060	-140.4370	>2000	0	
GP19901.17	Tucker	4	4	OC9	18	7	1834	S	58.1640	-140.3420	>2000	0	
GP19901.18	Tucker	4	4	OC9	18	7	1839	E	58.1610	-140.3450	>2000	0	
GP19901.23	Tucker	5	5	OC8	18	7	2128	S	58.3210	-140.2780	>2000	0	
GP19901.24	Tucker	5	5	OC8	18	7	2133	E	58.3200	-140.2780	>2000	0	
GP20001.03	Tucker	6	6	OC6	19	7	0127	S	58.6650	-140.1810	221	0	
GP20001.04	Tucker	6	6	OC6	19	7	0132	E	58.6670	-140.1790	208	0	
GP20001.09	Tucker	7	7	OC5	19	7	1438	S	58.8900	-140.1120	163	0	
GP20001.10	Tucker	7	7	OC5	19	7	1443	E	58.8910	-140.1170	162	0	
GP20001.15	Tucker	8	8	OC4	19	7	1724	S	59.0490	-140.0480	121	0	
GP20001.16	Tucker	8	8	OC4	19	7	1729	E	59.0500	-140.0480	118	0	
GP20001.21	Tucker	9	9	OC3	19	7	2025	S	59.2200	-139.9950	118	0	
GP20001.22	Tucker	9	9	OC3	19	7	2030	E	59.2210	-139.9940	116	0	
GP20001.27	Tucker	10	10	OC2	19	7	2318	S	59.3800	-139.9290	176	0	
GP20001.28	Tucker	10	10	OC2	19	7	2323	E	59.3820	-139.9280	175	0	
GP20101.05	Tucker	11	11	OC1	20	7	0146	S	59.4840	-139.8820	84	0	
GP20101.06	Tucker	11	11	OC1	20	7	0151	E	59.4850	-139.8870	85	0	
GP20301.04	Tucker	12	14	IB1	22	7	1348	S	60.0400	-142.5020	29	0	
GP20301.05	Tucker	12	14	IB1	22	7	1353	E	60.0420	-142.5030	33	0	
GP20301.12	Tucker	13	15	IB2	22	7	1638	S	59.9050	-142.4920	100	0	
GP20301.13	Tucker	13	15	IB2	22	7	1643	E	59.9040	-142.4890	99	0	
GP20301.18	Tucker	14	16	IB3	22	7	1956	S	59.7400	-142.5260	179	0	
GP20301.19	Tucker	14	16	IB3	22	7	2001	E	59.7400	-142.5220	176	0	
GP20301.24	Tucker	15	17	IB5	22	7	2315	S	59.5230	-142.5980	164	0	
GP20301.25	Tucker	15	17	IB5	22	7	2320	E	59.5220	-142.5940	176	0	
GP20301.30	Tucker	16	18	IB6	23	7	0208	S	59.2970	-142.6610	>2000	0	
GP20301.31	Tucker	16	18	IB6	23	7	0213	E	59.2950	-142.6650	>2000	0	
GP20401.03	Tucker	17	19	CSE5	23	7	1357	S	59.1530	-144.6030	>2000	0	
GP20401.04	Tucker	17	19	CSE5	23	7	1403	E	59.1510	-144.6030	>2000	0	
GP20401.11	Tucker	18	20	CSE4	23	7	1705	S	59.3250	-144.6120	>2000	0	
GP20401.12	Tucker	18	20	CSE4	23	7	1710	E	59.3280	-144.6120	>2000	0	
GP20401.17	Tucker	19	21	CSE3	23	7	1953	S	59.5210	-144.6150	176	0	
GP20401.18	Tucker	19	21	CSE3	23	7	1958	E	59.5180	-144.6170	212	0	
GP20401.26	Tucker	20	22	CSE2	23	7	2305	S	59.6370	-144.5910	141	0	
GP20401.27	Tucker	20	22	CSE2	23	7	2310	E	59.6370	-144.5910	141	0	
GP20501.04	Tucker	21	23	CSE1	24	7	0203	S	59.7830	-144.6840	46	0	
GP20501.05	Tucker	21	23	CSE1	24	7	0208	E	59.7860	-144.6850	46	0	
GP20601.03	Tucker	22	24	CC1	24	7	1414	S	59.7140	-147.8290	73	0	
GP20601.04	Tucker	22	24	CC1	24	7	1419	E	59.7160	-147.8300	73	0	
GP20601.11	Tucker	23	25	CC3	24	7	1725	S	59.5620	-147.6090	101	0	
GP20601.12	Tucker	23	25	CC3	24	7	1730	E	59.5630	-147.6130	102	0	
GP20601.18	Tucker	24	26	CC5	24	7	2051	S	59.3560	-147.3340	156	0	
GP20601.19	Tucker	24	26	CC5	24	7	2056	E	59.3560	-147.3390	152	0	
GP20601.24	Tucker	25	27	CC6	24	7	2339	S	59.2300	-147.1440	199	0	
GP20601.25	Tucker	25	27	CC6	24	7	2344	E	59.2320	-147.1470	196	0	
GP20601.31	Tucker	26	28	CC7	25	7	0322	S	59.0550	-146.9440	>2000	0	

**Table 8 Tucker Trawls (cont'd)**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20701.04	Tucker	27	29	GAK12	25	7	1409	E	58.2360	-147.9420	>2000	0	
GP20701.11	Tucker	28	30	GAK11	25	7	1700	S	58.3950	-148.0650	1383	0	
GP20701.12	Tucker	28	30	GAK11	25	7	1705	E	58.3930	-148.0610	1388	0	
GP20701.17	Tucker	29	31	GAK10	25	7	1954	S	58.5390	-148.2040	1447	0	
GP20701.18	Tucker	29	31	GAK10	25	7	2000	E	58.5360	-148.2010	1465	0	
GP20701.23	Tucker	30	32	GAK9	25	7	2245	S	58.6840	-148.3650	269	0	
GP20701.24	Tucker	30	32	GAK9	25	7	2250	E	58.6820	-148.3670	267	0	
GP20701.30	Tucker	31	33	GAK8	26	7	0156	S	58.7980	-148.4970	282	0	
GP20701.31	Tucker	31	33	GAK8	26	7	0201	E	58.7960	-148.4930	282	0	
GP20801.03	Tucker	32	34	GAK7	26	7	1352	S	58.9690	-148.6330	237	0	
GP20801.04	Tucker	32	34	GAK7	26	7	1357	E	58.9670	-148.6320	239	0	
GP20801.12	Tucker	33	35	GAK6	26	7	1649	S	59.1160	-148.7580	146	0	
GP20801.13	Tucker	33	35	GAK6	26	7	1654	E	59.1140	-148.7540	144	0	
GP20801.18	Tucker	34	36	GAK5	26	7	1939	S	59.2620	-148.8980	157	0	
GP20801.19	Tucker	34	36	GAK5	26	7	1944	E	59.2600	-148.8940	155	0	
GP20801.25	Tucker	35	37	GAK4	26	7	2258	S	59.4100	-149.0540	192	0	
GP20801.26	Tucker	35	37	GAK4	26	7	2303	E	59.4090	-149.0500	192	0	
GP20801.31	Tucker	36	38	GAK3	27	7	0139	S	59.5480	-149.2110	210	0	
GP20801.32	Tucker	36	38	GAK3	27	7	0144	E	59.5490	-149.2060	210	0	
GP20801.39	Tucker	37	38	GAK3	27	7	0554	S	59.5540	-149.1790	203	0	
GP20801.40	Tucker	37	38	GAK3	27	7	0559	E	59.5520	-149.1770	203	0	
GP20901.03	Tucker	38	38	GAK3	27	7	0957	S	59.5500	-149.1740	201	0	
GP20901.04	Tucker	38	38	GAK3	27	7	1002	E	59.5480	-149.1720	199	0	
GP20901.09	Tucker	39	38	GAK3	27	7	1354	S	59.5530	-149.1900	207	0	
GP20901.10	Tucker	39	38	GAK3	27	7	1359	E	59.5500	-149.1910	207	0	
GP20901.15	Tucker	40	38	GAK3	27	7	1748	S	59.5550	-149.1950	207	0	
GP20901.16	Tucker	40	38	GAK3	27	7	1753	E	59.5530	-149.1930	207	0	
GP20901.21	Tucker	41	38	GAK3	27	7	2147	S	59.5490	-149.1850	205	0	
GP20901.22	Tucker	41	38	GAK3	27	7	2152	E	59.5460	-149.1840	205	0	
GP20901.28	Tucker	42	39	GAK2	28	7	0051	S	59.6880	-149.3320	219	0	
GP20901.29	Tucker	42	39	GAK2	28	7	0056	E	59.6850	-149.3290	219	0	
GP20901.35	Tucker	43	40	GAK1	28	7	0350	S	59.8410	-149.4900	263	0	
GP20901.36	Tucker	43	40	GAK1	28	7	0355	E	59.8390	-149.4870	263	0	
GP21101.03	Tucker	44	41	GP1	29	7	1542	S	59.1820	-150.9550	33	0	
GP21101.04	Tucker	44	41	GP1	29	7	1547	E	59.1790	-150.9550	35	0	
GP21101.11	Tucker	45	42	GP3	29	7	1937	S	58.8810	-150.7400	121	0	
GP21101.12	Tucker	45	42	GP3	29	7	1937	E	58.8810	-150.7440	121	0	
GP21101.17	Tucker	46	43	GP4	29	7	2242	S	58.7340	-150.6320	185	0	
GP21101.18	Tucker	46	43	GP4	29	7	2247	E	58.7360	-150.6330	179	0	
GP21101.25	Tucker	47	44	GP5	30	7	0142	S	58.5830	-150.4920	179	0	
GP21101.26	Tucker	47	44	GP5	30	7	0147	E	58.5840	-150.4920	179	0	
GP21201.05	Tucker	48	45	GP6	30	7	1453	S	58.4170	-150.3840	68	0	
GP21201.06	Tucker	48	45	GP6	30	7	1458	E	58.4180	-150.3820	68	0	
GP21201.11	Tucker	49	46	GP7	30	7	1746	S	58.2710	-150.2730	57	0	
GP21201.12	Tucker	49	46	GP7	30	7	1751	E	58.2740	-150.2750	55	0	
GP21201.17	Tucker	50	47	GP8	30	7	2049	S	58.1210	-150.1540	245	0	
GP21201.18	Tucker	50	47	GP8	30	7	2054	E	58.1180	-150.1540	249	0	
GP21201.23	Tucker	51	48	GP9	30	7	2345	S	57.9690	-150.0330	245	0	
GP21201.24	Tucker	51	48	GP9	30	7	2350	E	57.9670	-150.0300	245	0	
GP21201.31	Tucker	52	49	GP10	31	7	0233	S	57.8340	-149.9250	247	0	
GP21201.32	Tucker	52	49	GP10	31	7	0238	E	57.8350	-149.9190	247	0	

**Table 8 Tucker Trawls (cont'd)**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21301.11	Tucker	54	51	GP12	31	7	1715	S	57.4850	-149.6970	1467	0	
GP21301.12	Tucker	54	51	GP12	31	7	1720	E	57.4850	-149.7030	1467	0	
GP21301.17	Tucker	55	52	GP13	31	7	2012	S	57.3420	-149.5660	>2000	0	
GP21301.18	Tucker	55	52	GP13	31	7	2017	E	57.3450	-149.5680	>2000	0	
GP21301.25	Tucker	56	53	GP14	31	7	2326	S	57.1870	-149.4420	>2000	0	
GP21301.26	Tucker	56	53	GP14	31	7	2331	E	57.1890	-149.4460	>2000	0	
GP21401.05	Tucker	57	54	CCH7	1	8	1420	S	56.2710	-150.8560	>2000	0	
GP21401.06	Tucker	57	54	CCH7	1	8	1425	E	56.2740	-150.8570	>2000	0	
GP21401.11	Tucker	58	55	CCH6	1	8	1733	S	56.4950	-151.0690	>2000	0	
GP21401.12	Tucker	58	55	CCH6	1	8	1738	E	56.4970	-151.0680	>2000	0	
GP21401.17	Tucker	59	56	CCH5	1	8	2050	S	56.7070	-151.2900	1333	0	
GP21401.18	Tucker	59	56	CCH5	1	8	2055	E	56.7090	-151.2920	1269	0	
GP21401.23	Tucker	60	57	CCH4	2	8	0006	S	56.9280	-151.5020	369	0	
GP21401.24	Tucker	60	57	CCH4	2	8	0011	E	56.9270	-151.5060	357	0	
GP21501.03	Tucker	61	58	CCH3	2	8	1402	S	57.1480	-151.7310	75	0	
GP21501.04	Tucker	61	58	CCH3	2	8	1407	E	57.1500	-151.7340	75	0	
GP21501.09	Tucker	62	59	CCH2	2	8	1725	S	57.3690	-151.9440	64	0	
GP21501.10	Tucker	62	59	CCH2	2	8	1730	E	57.3710	-151.9410	64	0	
GP21501.17	Tucker	63	60	CCH1	2	8	2028	S	57.5790	-152.1480	35	0	
GP21501.18	Tucker	63	60	CCH1	2	8	2033	E	57.5780	-152.1460	37	0	
GP21601.03	Tucker	64	61	CN1	3	8	1405	S	58.0490	-153.4450	69	0	
GP21601.04	Tucker	64	61	CN1	3	8	1410	E	58.0510	-153.4410	48	0	
GP21601.11	Tucker	65	62	CN2	3	8	1743	S	58.1820	-153.6830	183	0	
GP21601.12	Tucker	65	62	CN2	3	8	1748	E	58.1840	-153.6850	183	0	
GP21601.17	Tucker	66	63	CN3	3	8	2336	S	58.3660	-153.9350	55	0	
GP21601.18	Tucker	66	63	CN3	3	8	2341	E	58.3670	-153.9320	64	0	
GP21701.03	Tucker	67	64	CK1	4	8	1418	S	57.6950	-155.2880	278	0	
GP21701.04	Tucker	67	64	CK1	4	8	1423	E	57.6970	-155.2880	271	0	
GP21701.11	Tucker	68	65	CK2	4	8	1742	S	57.5810	-155.0510	229	0	
GP21701.12	Tucker	68	65	CK2	4	8	1747	E	57.5820	-155.0560	229	0	
GP21701.17	Tucker	69	66	CK3	4	8	2255	S	57.4310	-154.7690	79	0	
GP21701.18	Tucker	69	66	CK3	4	8	2300	E	57.4330	-154.7710	86	0	
GP21801.03	Tucker	70	67	CKAG1	5	8	1403	S	56.6990	-153.9300	24	0	
GP21801.04	Tucker	70	67	CKAG1	5	8	1408	E	56.6990	-153.9260	22	0	
GP21801.11	Tucker	71	68	CKAG2	5	8	1649	S	56.4800	-153.7140	88	0	
GP21801.12	Tucker	71	68	CKAG2	5	8	1654	E	56.4810	-153.7090	88	0	
GP21801.17	Tucker	72	69	CKAG3	5	8	1955	S	56.2600	-153.5000	82	0	
GP21801.18	Tucker	72	69	CKAG3	5	8	2000	E	56.2570	-153.5010	82	0	
GP21801.23	Tucker	73	70	CKAG4	5	8	2247	S	56.1130	-153.3480	953	0	
GP21801.24	Tucker	73	70	CKAG4	5	8	2252	E	56.1120	-153.3450	949	0	
GP21801.29	Tucker	74	71	CKAG5	6	8	0211	S	55.9000	-153.1360	>2000	0	
GP21801.30	Tucker	74	71	CKAG5	6	8	0216	E	55.8970	-153.1370	>2000	0	
GP21901.05	Tucker	75	72	CKAG6	6	8	1441	S	55.6770	-152.9090	>2000	0	
GP21901.06	Tucker	75	72	CKAG6	6	8	1446	E	55.6790	-152.9120	>2000	0	

**Table 9 Drifter Buoys**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20101.09	Drifter	1	12	IB2	20	7	2120	nd	59.8790	-142.5360	90	nd	No. 21957; Stabeno
GP20101.10	Drifter	2	13	IB5	20	7	2205	nd	59.7850	-142.5200	155	nd	No. 22580; Stabeno
GP20401.23	Drifter	3	21	CSE3	23	7	2158	nd	59.5170	-142.6430	180	nd	No. 22089; Stabeno
GP20601.15	Drifter	4	25	CC3	24	7	1914	nd	59.5400	-147.6040	99	nd	No. 22394; Stabeno
GP20601.28	Drifter	5	27	CC6	25	7	0138	nd	59.2560	-147.1900	182	nd	No. 24053; Stabeno
GP20701.27	Drifter	6	32	GAK9	26	7	0052	nd	58.6950	-148.3880	265	nd	No. 22579; Stabeno
GP20801.09	Drifter	7	34	GAK7	26	7	1541	nd	58.9840	-148.6630	230	nd	No. 21956; Stabeno
GP20801.22	Drifter	8	36	GAK5	26	7	2118	nd	59.2630	-148.9270	160	nd	No. 22343; Stabeno
GP20901.25	Drifter	9	38	GAK3	27	7	2337	nd	59.5810	-149.1990	200	nd	No. 24036; Stabeno
GP20901.32	Drifter	10	39	GAK2	28	7	0234	nd	59.7130	-149.3500	225	nd	No. 24210; Stabeno
GP21101.29	Drifter	11	44	GP5	30	7	0323	nd	58.5650	-150.4530	161	nd	No. 23929; Stabeno

**Table 10 WP-2 Net Tows**

Event#	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20301.06	WP2	1	14	IB1	22	7	1358	S	60.0400	-142.5080	34	0	Isotope Analysis; Finney
GP20301.07	WP2	1	14	IB1	22	7	1359	E	60.0400	-142.5080	33	30	
GP20301.32	WP2	2	18	IB6	23	7	0217	S	59.2940	-142.6690	>2000	0	Isotope Analysis; Finney
GP20301.33	WP2	2	18	IB6	23	7	0221	E	59.2940	-142.6700	>2000	100	
GP20401.05	WP2	3	19	CSE5	23	7	1407	S	59.1500	-144.6030	>2000	0	Isotope Analysis; Finney
GP20401.06	WP2	3	19	CSE5	23	7	1412	E	59.1500	-144.6040	>2000	100	
GP20401.19	WP2	4	21	CSE3	23	7	2004	S	59.5170	-144.6190	212	0	Isotope Analysis; Finney
GP20401.20	WP2	4	21	CSE3	23	7	2009	E	59.5180	-144.6210	221	100	
GP20501.06	WP2	5	23	CSE1	24	7	0214	S	59.7860	-144.6850	46	0	Isotope Analysis; Finney
GP20501.07	WP2	5	23	CSE1	24	7	0216	E	59.7860	-144.6860	46	43	
GP20601.05	WP2	6	24	CC1	24	7	1423	S	59.7170	-147.8300	72	0	Isotope Analysis; Finney
GP20601.06	WP2	6	24	CC1	24	7	1425	E	59.7170	-147.8300	72	70	
GP20601.33	WP2	7	28	CC7	25	7	0332	S	59.0600	-146.9400	>2000	0	Isotope Analysis; Finney
GP20601.34	WP2	7	28	CC7	25	7	0336	E	59.0610	-146.9360	>2000	100	
GP20701.05	WP2	8	29	GAK12	25	7	1413	S	58.2350	-147.9430	>2000	0	Isotope Analysis; Finney
GP20701.06	WP2	8	29	GAK12	25	7	1415	E	58.2350	-147.9430	>2000	100	
GP20801.05	WP2	9	34	GAK7	26	7	1401	S	58.9650	-148.6310	238	0	Isotope Analysis; Finney
GP20801.06	WP2	9	34	GAK7	26	7	1404	E	58.9650	-148.6320	238	100	
GP20801.33	WP2	10	38	GAK3	27	7	0151	S	59.5490	-149.2030	210	0	Isotope Analysis; Finney
GP20801.34	WP2	10	38	GAK3	27	7	0154	E	59.5490	-149.2040	210	100	
GP20901.37	WP2	11	40	GAK1	28	7	0400	S	59.8370	-149.4840	263	0	Isotope Analysis; Finney
GP20901.38	WP2	11	40	GAK1	28	7	0403	E	59.8360	-149.4830	263	100	
GP21101.09	WP2	12	42	GP3	29	7	1926	S	58.8820	-150.7360	121	0	Isotope Analysis; Finney
GP21101.10	WP2	12	42	GP3	29	7	1929	E	58.8820	-150.7370	121	100	
GP21101.23	WP2	13	44	GP5	30	7	0133	S	58.5820	-150.4900	177	0	Isotope Analysis; Finney
GP21101.24	WP2	13	44	GP5	30	7	0137	E	58.5820	-150.4900	177	100	
GP21201.03	WP2	14	45	GP6	30	7	1439	S	58.4160	-150.3790	66	0	Isotope Analysis; Finney
GP21201.04	WP2	14	45	GP6	30	7	1442	E	58.4160	-150.3800	66	64	
GP21201.29	WP2	15	49	GP10	31	7	0225	S	57.8340	-149.9260	247	0	Isotope Analysis; Finney
GP21201.30	WP2	15	49	GP10	31	7	0228	E	57.8340	-149.9260	247	100	
GP21301.03	WP2	16	50	GP11	31	7	1408	S	57.6450	-149.7960	624	0	Isotope Analysis; Finney
GP21301.04	WP2	16	50	GP11	31	7	1412	E	57.6450	-149.7940	640	100	
GP21301.23	WP2	17	53	GP14	31	7	2318	S	57.1880	-149.4390	>2000	0	Isotope Analysis; Finney
GP21301.24	WP2	17	53	GP14	31	7	2321	E	57.1880	-149.4390	>2000	100	
GP21401.03	WP2	18	54	CCH7	1	8	1409	S	56.2730	-150.8530	>2000	0	Isotope Analysis; Finney
GP21401.04	WP2	18	54	CCH7	1	8	1412	E	56.2720	-150.8530	>2000	100	
GP21501.15	WP2	19	60	CCH1	2	8	2022	S	57.5780	-152.1470	37	0	Isotope Analysis; Finney
GP21501.16	WP2	19	60	CCH1	2	8	2023	E	57.5790	-152.1470	37	35	
GP21601.09	WP2	20	62	CN2	3	8	1732	S	58.1820	-153.6820	183	0	Isotope Analysis; Finney
GP21601.10	WP2	20	62	CN2	3	8	1735	E	58.1820	-153.6820	183	100	
GP21701.09	WP2	21	65	CK2	4	8	1727	S	57.5850	-155.0480	229	0	Isotope Analysis; Finney
GP21701.10	WP2	21	65	CK2	4	8	1732	E	57.5840	-155.0480	227	100	
GP21801.09	WP2	22	68	CKAG2	5	8	1644	S	56.4800	-153.7110	88	0	Isotope Analysis; Finney
GP21801.10	WP2	22	68	CKAG2	5	8	1646	E	56.4800	-153.7120	88	85	
GP21901.03	WP2	23	72	CKAG6	6	8	1427	S	55.6780	-152.9070	>2000	0	Isotope Analysis; Finney
GP21901.04	WP2	23	72	CKAG6	6	8	1431	E	55.6780	-152.9060	>2000	100	

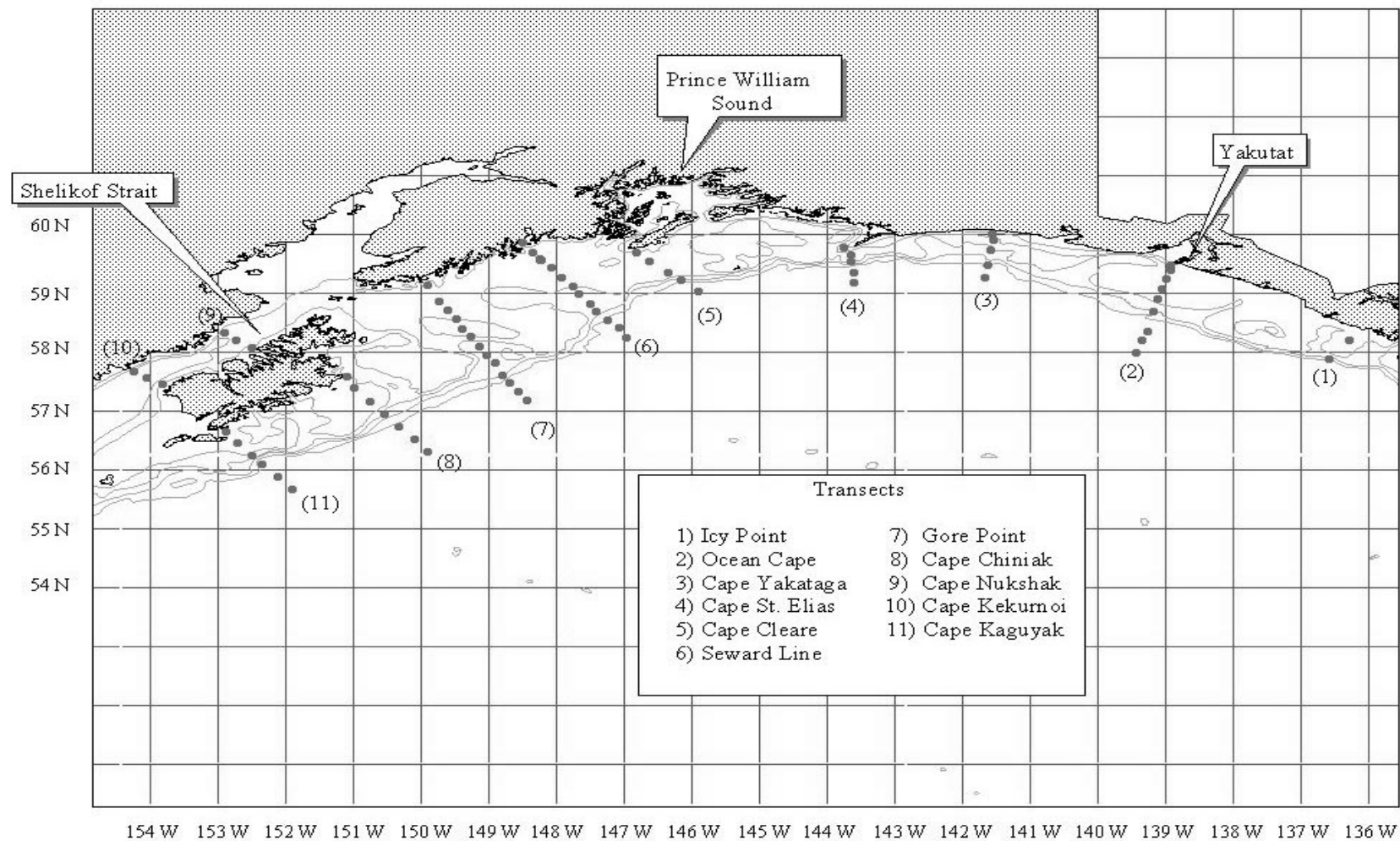


Figure 1. Transects and stations sampled by the NMFS, OCC/GLOBEC program in the Gulf of Alaska July 17 - August 6, 2001.

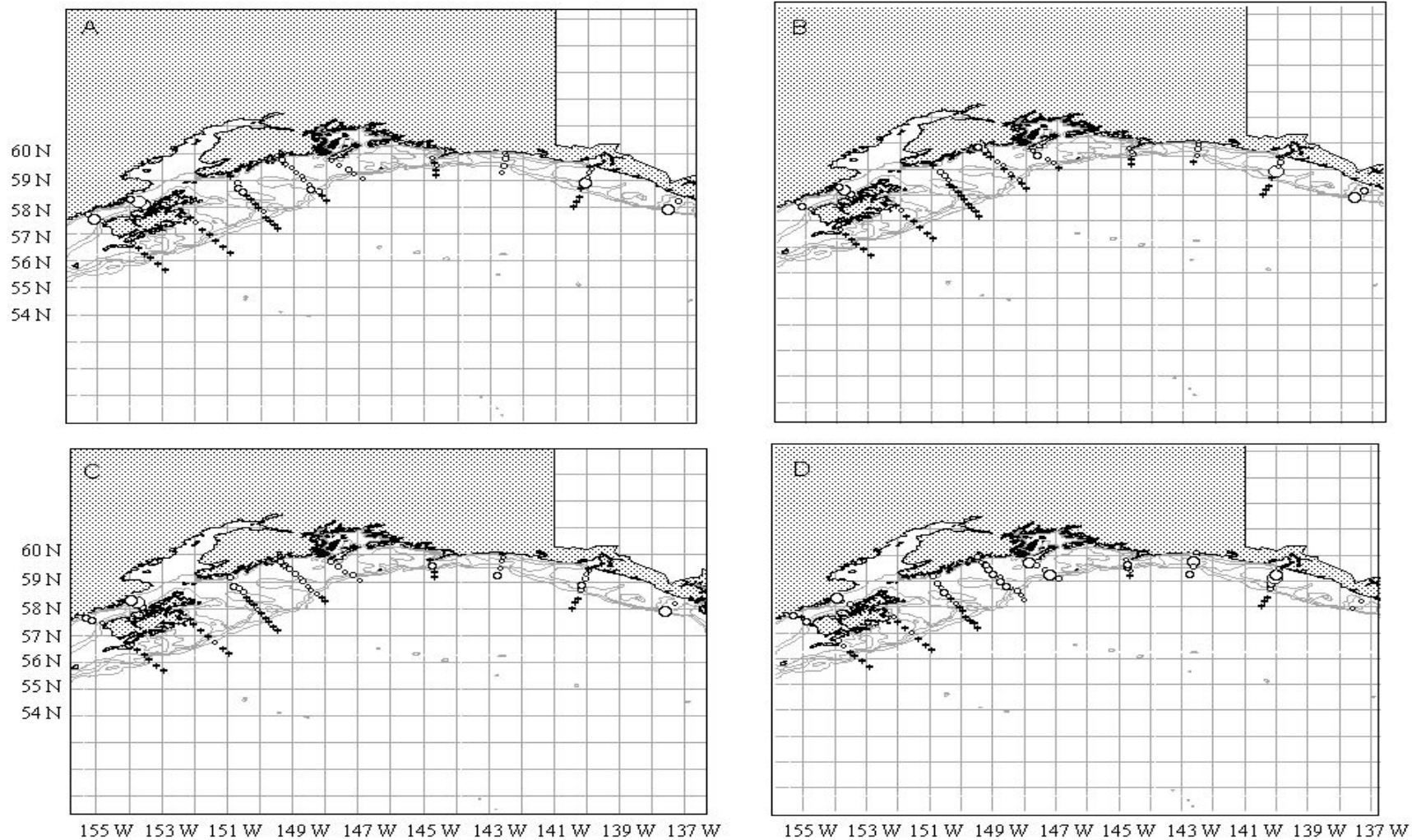


Figure 2. Distribution (shown by graduated symbol of catch per unit effort (CPUE)- see Table 3) of juvenile pink (A), chum (B), sockeye (C), and coho (D) salmon during the July-August 2001 OCC/GLOBEC Gulf of Alaska survey. (+ indicates location sampled, but no juvenile salmon of a particular species were caught)



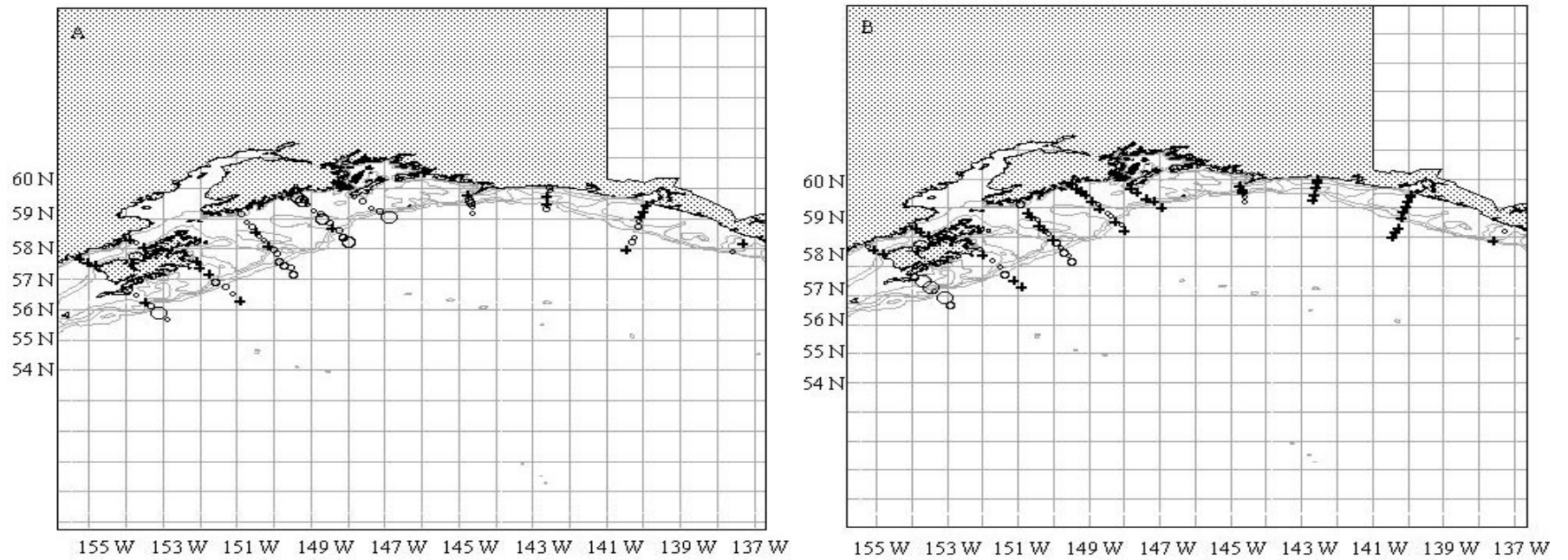


Figure 3. Distribution (shown by graduated symbol of catch per unit effort (CPUE) - see Table 3) of immature chum (A) and sockeye (B) salmon during the July-August 2001 OCC/GLOBEC Gulf of Alaska survey. (+ indicates location sampled, but no immature salmon of a particular species were caught.)

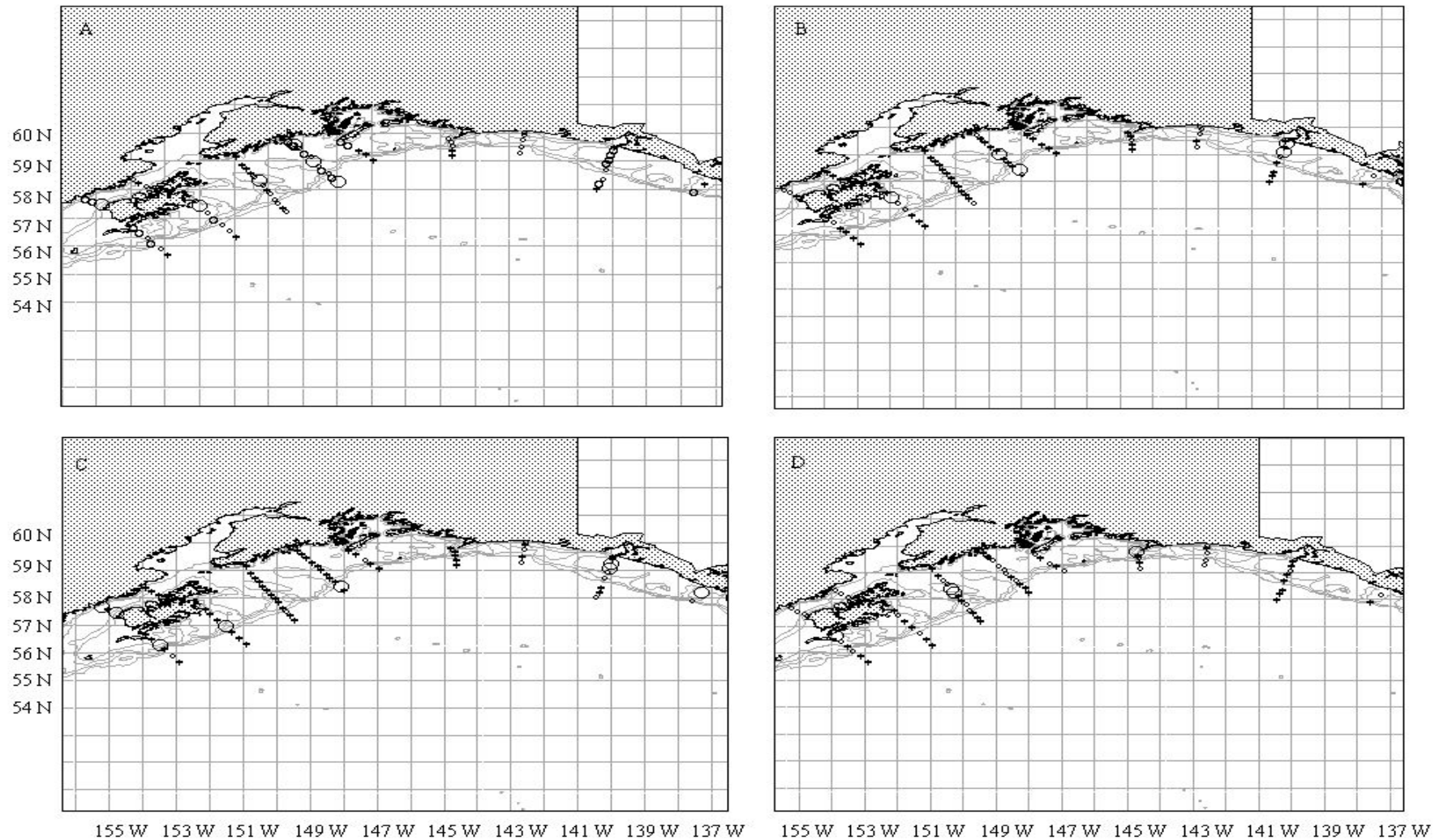


Figure 4. Distribution (shown by graduated symbol of catch per unit effort (CPUE)- see Table 3) of adult pink (A), chum (B), sockeye (C), and coho (D) salmon during the July-August 2001 OCC/GLOBEC Gulf of Alaska survey. (+ indicates location sampled, but no adult salmon of a particular species were caught)

## **APPENDIX I**

### **GP0108 EVENT LOG**

## EVENT LOG CONTENTS

### Column Label

Event#  
Instrument (Instr)  
  
minutes; flow-metered volume;  
  
Cast  
Station (Sta)  
Station Standard (Sta std)  
Day  
Month (Mos)  
Time  
S/E  
Latitude (Lat)  
Longitude (Long)  
Water Depth  
Cast Depth  
Comments

### Description

Unique identifier for each line of event log  
CTD: Conductivity, temperature, depth and fluorescence from Seabird SBE 19 Seacat CTD; Niskin bottle for fluorescence & salt calibration;  
Trawl: Midwater rope trawl; 198-m long; hexagonal mesh in wings and body; 1.2-cm mesh liner in codend; ca. 45m wide; 10-m vertical; 30 min tows;  
Tucker: 1-m<sup>2</sup> trawl with 0.505-mm mesh; towed near surface for 5 minutes;  
  
Drifter: Satellite tracked drifting buoy drogued at 40-m;  
WP-2: Vertical net tow to 100-m; 0.57-m diameter ring; 0.253-mm mesh; samples frozen for C and N isotope analysis.  
Sequence # for a particular instrument  
  
GMT time basis  
GMT time basis  
GMT time  
Start/End Flag  
Decimal degrees; north is positive  
Decimal degrees; east is positive  
Depth of bottom  
Maximum depth of deployment

**Appendix I**  
Event #

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP19801.01	CTD	1	1	IP2	17	7	2235	S	58.2140	-137.2340	117	0	
GP19801.02	CTD	1	1	IP2	17	7	2238	E	58.2120	-137.2330	119	100	
GP19801.03	Tucker	1	1	IP2	17	7	2307	S	58.2030	-137.2350	123	0	
GP19801.04	Tucker	1	1	IP2	17	7	2312	E	58.2020	-137.2440	123	0	
GP19901.01	Trawl	1	1	IP2	18	7	0010	S	58.1950	-137.1960	117	0	
GP19901.02	Trawl	1	1	IP2	18	7	0040	E	58.1900	-137.2730	121	0	
GP19901.03	CTD	2	2	IP4	18	7	0308	S	57.9000	-137.5480	600	0	
GP19901.04	CTD	2	2	IP4	18	7	0317	E	57.8990	-137.5450	622	200	
GP19901.05	Tucker	2	2	IP4	18	7	0328	S	57.8960	-137.5420	622	0	
GP19901.06	Tucker	2	2	IP4	18	7	0333	E	57.8950	-137.5450	732	0	
GP19901.07	Trawl	2	2	IP4	18	7	0418	S	57.8940	-137.5040	589	0	
GP19901.08	Trawl	2	2	IP4	18	7	0448	E	57.8910	-137.5710	819	0	
GP19901.09	CTD	3	3	OC10	18	7	1453	S	58.0170	-140.4220	>2000	0	
GP19901.10	CTD	3	3	OC10	18	7	1501	E	58.0130	-140.4240	>2000	200	
GP19901.11	Tucker	3	3	OC10	18	7	1515	S	58.0080	-140.4310	>2000	0	
GP19901.12	Tucker	3	3	OC10	18	7	1520	E	58.0060	-140.4370	>2000	0	
GP19901.13	Trawl	3	3	OC10	18	7	1603	S	57.9970	-140.4750	>2000	0	
GP19901.14	Trawl	3	3	OC10	18	7	1633	E	57.9920	-140.4160	>2000	0	
GP19901.15	CTD	4	4	OC9	18	7	1812	S	58.1730	-140.3490	>2000	0	
GP19901.16	CTD	4	4	OC9	18	7	1823	E	58.1650	-140.3450	>2000	200	
GP19901.17	Tucker	4	4	OC9	18	7	1834	S	58.1640	-140.3420	>2000	0	
GP19901.18	Tucker	4	4	OC9	18	7	1839	E	58.1610	-140.3450	>2000	0	
GP19901.19	Trawl	4	4	OC9	18	7	1922	S	58.1520	-140.3330	>2000	0	
GP19901.20	Trawl	4	4	OC9	18	7	1952	E	58.1870	-140.3330	>2000	0	
GP19901.21	CTD	5	5	OC8	18	7	2109	S	58.3220	-140.2920	>2000	0	
GP19901.22	CTD	5	5	OC8	18	7	2118	E	58.3200	-140.2860	>2000	200	
GP19901.23	Tucker	5	5	OC8	18	7	2128	S	58.3210	-140.2780	>2000	0	
GP19901.24	Tucker	5	5	OC8	18	7	2133	E	58.3200	-140.2780	>2000	0	
GP19901.25	Trawl	5	5	OC8	18	7	2217	S	58.3080	-140.2570	>2000	0	
GP19901.26	Trawl	5	5	OC8	18	7	2247	E	58.3390	-140.2460	>2000	0	
GP20001.01	CTD	6	6	OC6	19	7	0110	S	58.6630	-140.1880	229	0	
GP20001.02	CTD	6	6	OC6	19	7	0122	E	58.6630	-140.1840	223	200	
GP20001.03	Tucker	6	6	OC6	19	7	0127	S	58.6650	-140.1810	221	0	
GP20001.04	Tucker	6	6	OC6	19	7	0132	E	58.6670	-140.1790	208	0	
GP20001.05	Trawl	6	6	OC6	19	7	0216	S	58.6460	-140.1720	338	0	
GP20001.06	Trawl	6	6	OC6	19	7	0246	E	58.6820	-140.1670	183	0	
GP20001.07	CTD	7	7	OC5	19	7	1425	S	58.8900	-140.1100	162	0	
GP20001.08	CTD	7	7	OC5	19	7	1433	E	58.8900	-140.1100	162	160	
GP20001.09	Tucker	7	7	OC5	19	7	1438	S	58.8900	-140.1120	163	0	
GP20001.10	Tucker	7	7	OC5	19	7	1443	E	58.8910	-140.1170	162	0	
GP20001.11	Trawl	7	7	OC5	19	7	1524	S	58.8670	-140.1080	164	0	
GP20001.12	Trawl	7	7	OC5	19	7	1554	E	58.9100	-140.1010	156	0	
GP20001.13	CTD	8	8	OC4	19	7	1712	S	59.0490	-140.0520	122	0	
GP20001.14	CTD	8	8	OC4	19	7	1719	E	59.0490	-140.0500	121	120	
GP20001.15	Tucker	8	8	OC4	19	7	1724	S	59.0490	-140.0480	121	0	
GP20001.16	Tucker	8	8	OC4	19	7	1729	E	59.0500	-140.0480	118	0	
GP20001.17	Trawl	8	8	OC4	19	7	1826	S	59.0340	-140.0480	125	0	
GP20001.18	Trawl	8	8	OC4	19	7	1856	E	59.0730	-140.0350	119	0	
GP20001.19	CTD	9	9	OC3	19	7	2015	S	59.2200	-139.9630	116	0	

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20001.20	CTD	9	9	OC3	19	7	2020	E	59.2200	-139.9950	116	115	
GP20001.21	Tucker	9	9	OC3	19	7	2025	S	59.2200	-139.9950	118	0	
GP20001.22	Tucker	9	9	OC3	19	7	2030	E	59.2210	-139.9940	116	0	
GP20001.23	Trawl	9	9	OC3	19	7	2110	S	59.1920	-139.9950	106	0	
GP20001.24	Trawl	9	9	OC3	19	7	2140	E	59.2370	-139.9780	128	0	
GP20001.25	CTD	10	10	OC2	19	7	2302	S	59.3810	-139.9300	176	0	
GP20001.26	CTD	10	10	OC2	19	7	2312	E	59.3790	-139.9290	176	175	
GP20001.27	Tucker	10	10	OC2	19	7	2318	S	59.3800	-139.9290	176	0	
GP20001.28	Tucker	10	10	OC2	19	7	2323	E	59.3820	-139.9280	175	0	
GP20101.01	Trawl	10	10	OC2	20	7	0010	S	59.3600	-139.9250	176	0	
GP20101.02	Trawl	10	10	OC2	20	7	0040	E	59.3960	-139.9100	168	0	
GP20101.03	CTD	11	11	OC1	20	7	0139	S	59.4870	-139.8810	79	0	
GP20101.04	CTD	11	11	OC1	20	7	0142	E	59.4850	-139.8810	91	80	
GP20101.05	Tucker	11	11	OC1	20	7	0146	S	59.4840	-139.8820	84	0	
GP20101.06	Tucker	11	11	OC1	20	7	0151	E	59.4850	-139.8870	85	0	
GP20101.07	Trawl	11	11	OC1	20	7	0231	S	59.5090	-139.8780	40	0	
GP20101.08	Trawl	11	11	OC1	20	7	0301	E	59.4690	-139.9000	113	0	
GP20101.09	Drifter	1	12	IB2	20	7	2120	nd	59.8790	-142.5360	90	nd	No. 21957; Stabeno
GP20101.10	Drifter	2	13	IB5	20	7	2205	nd	59.7850	-142.5200	155	nd	No. 22580; Stabeno
GP20101.11	Off Charter	nd	nd	nd	20	7	2230	nd	nd	nd	nd	nd	Engine Trouble - To Yakutat
GP20301.01	On Charter	nd	nd	nd	22	7	1300	nd	nd	nd	nd	nd	On Station IB1
GP20301.02	CTD	12	14	IB1	22	7	1342	S	60.0430	-142.4980	27	0	
GP20301.03	CTD	12	14	IB1	22	7	1345	E	60.0440	-142.5000	26	25	
GP20301.04	Tucker	12	14	IB1	22	7	1348	S	60.0400	-142.5020	29	0	
GP20301.05	Tucker	12	14	IB1	22	7	1353	E	60.0420	-142.5030	33	0	
GP20301.06	WP2	1	14	IB1	22	7	1358	S	60.0400	-142.5080	34	0	Isotope Analysis; Finney
GP20301.07	WP2	1	14	IB1	22	7	1359	E	60.0400	-142.5080	33	30	
GP20301.08	Trawl	12	14	IB1	22	7	1445	S	60.0390	-142.5440	26	0	
GP20301.09	Trawl	12	14	IB1	22	7	1515	E	60.0010	-142.5470	68	0	
GP20301.10	CTD	13	15	IB2	22	7	1629	S	59.9020	-142.4910	97	0	
GP20301.11	CTD	13	15	IB2	22	7	1634	E	59.9040	-142.4930	99	97	
GP20301.12	Tucker	13	15	IB2	22	7	1638	S	59.9050	-142.4920	100	0	
GP20301.13	Tucker	13	15	IB2	22	7	1643	E	59.9040	-142.4890	99	0	
GP20301.14	Trawl	13	15	IB2	22	7	1727	S	59.9320	-142.5000	97	0	
GP20301.15	Trawl	13	15	IB2	22	7	1757	E	59.9030	-142.5300	107	0	
GP20301.16	CTD	14	16	IB3	22	7	1935	S	59.7370	-142.5270	187	0	
GP20301.17	CTD	14	16	IB3	22	7	1945	E	59.7380	-142.5310	190	185	
GP20301.18	Tucker	14	16	IB3	22	7	1956	S	59.7400	-142.5260	179	0	
GP20301.19	Tucker	14	16	IB3	22	7	2001	E	59.7400	-142.5220	176	0	
GP20301.20	Trawl	14	16	IB3	22	7	2040	S	59.7700	-142.5480	166	0	
GP20301.21	Trawl	14	16	IB3	22	7	2110	E	59.7360	-142.5680	247	0	
GP20301.22	CTD	15	17	IB5	22	7	2302	S	59.5220	-142.6000	166	0	
GP20301.23	CTD	15	17	IB5	22	7	2310	E	59.5220	-142.6000	164	163	
GP20301.24	Tucker	15	17	IB5	22	7	2315	S	59.5230	-142.5980	164	0	
GP20301.25	Tucker	15	17	IB5	22	7	2320	E	59.5220	-142.5940	176	0	
GP20301.26	Trawl	15	17	IB5	22	7	2350	S	59.5210	-142.5990	187	0	
GP20301.27	Trawl	15	17	IB5	23	7	0020	E	59.4820	-142.6140	1024	0	
GP20301.28	CTD	16	18	IB6	23	7	0148	S	59.3020	-142.6460	>2000	0	

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20301.29	CTD	16	18	IB6	23	7	0159	E	59.3000	-142.6550	>2000	200	
GP20301.30	Tucker	16	18	IB6	23	7	0208	S	59.2970	-142.6610	>2000	0	
GP20301.31	Tucker	16	18	IB6	23	7	0213	E	59.2950	-142.6650	>2000	0	
GP20301.32	WP2	2	18	IB6	23	7	0217	S	59.2940	-142.6690	>2000	0	Isotope Analysis; Finney
GP20301.33	WP2	2	18	IB6	23	7	0221	E	59.2940	-142.6700	>2000	100	
GP20301.34	Trawl	16	18	IB6	23	7	0308	S	59.3140	-142.6440	>2000	0	
GP20301.35	Trawl	16	18	IB6	23	7	0338	E	59.2690	-142.6620	>2000	0	
GP20401.01	CTD	17	19	CSE5	23	7	1336	S	59.1500	-144.6040	>2000	0	
GP20401.02	CTD	17	19	CSE5	23	7	1348	E	59.1520	-144.6050	>2000	200	
GP20401.03	Tucker	17	19	CSE5	23	7	1357	S	59.1530	-144.6030	>2000	0	
GP20401.04	Tucker	17	19	CSE5	23	7	1403	E	59.1510	-144.6030	>2000	0	
GP20401.05	WP2	3	19	CSE5	23	7	1407	S	59.1500	-144.6030	>2000	0	Isotope Analysis; Finney
GP20401.06	WP2	3	19	CSE5	23	7	1412	E	59.1500	-144.6040	>2000	100	
GP20401.07	Trawl	17	19	CSE5	23	7	1455	S	59.1330	-144.6020	>2000	0	
GP20401.08	Trawl	17	19	CSE5	23	7	1525	E	59.1740	-144.6020	>2000	0	
GP20401.09	CTD	18	20	CSE4	23	7	1645	S	59.3230	-144.6110	>2000	0	
GP20401.10	CTD	18	20	CSE4	23	7	1658	E	59.3230	-144.6120	>2000	200	
GP20401.11	Tucker	18	20	CSE4	23	7	1705	S	59.3250	-144.6120	>2000	0	
GP20401.12	Tucker	18	20	CSE4	23	7	1710	E	59.3280	-144.6120	>2000	0	
GP20401.13	Trawl	18	20	CSE4	23	7	1748	S	59.3130	-144.6060	>2000	0	
GP20401.14	Trawl	18	20	CSE4	23	7	1818	E	59.3510	-144.6040	>2000	0	
GP20401.15	CTD	19	21	CSE3	23	7	1939	S	59.5210	-144.6100	187	0	
GP20401.16	CTD	19	21	CSE3	23	7	1947	E	59.5210	-144.6120	179	175	
GP20401.17	Tucker	19	21	CSE3	23	7	1953	S	59.5210	-144.6150	176	0	
GP20401.18	Tucker	19	21	CSE3	23	7	1958	E	59.5180	-144.6170	212	0	
GP20401.19	WP2	4	21	CSE3	23	7	2004	S	59.5170	-144.6190	212	0	Isotope Analysis; Finney
GP20401.20	WP2	4	21	CSE3	23	7	2009	E	59.5180	-144.6210	221	100	
GP20401.21	Trawl	19	21	CSE3	23	7	2051	S	59.4930	-144.6300	631	0	
GP20401.22	Trawl	19	21	CSE3	23	7	2121	E	59.5310	-144.6370	168	0	
GP20401.23	Drifter	3	21	CSE3	23	7	2158	nd	59.5170	-142.6430	180	nd	No. 22089; Stabeno
GP20401.24	CTD	20	22	CSE2	23	7	2254	S	59.6340	-144.5830	141	0	
GP20401.25	CTD	20	22	CSE2	23	7	2258	E	59.6340	-144.5840	141	135	
GP20401.26	Tucker	20	22	CSE2	23	7	2305	S	59.6370	-144.5910	141	0	
GP20401.27	Tucker	20	22	CSE2	23	7	2310	E	59.6370	-144.5910	141	0	
GP20401.28	Trawl	20	22	CSE2	23	7	2352	S	59.6030	-144.5990	139	0	
GP20501.01	Trawl	20	22	CSE2	24	7	0022	E	59.6370	-144.6100	139	0	
GP20501.02	CTD	21	23	CSE1	24	7	0155	S	59.7830	-144.6840	46	0	
GP20501.03	CTD	21	23	CSE1	24	7	0158	E	59.7820	-144.6840	46	43	
GP20501.04	Tucker	21	23	CSE1	24	7	0203	S	59.7830	-144.6840	46	0	
GP20501.05	Tucker	21	23	CSE1	24	7	0208	E	59.7860	-144.6850	46	0	
GP20501.06	WP2	5	23	CSE1	24	7	0214	S	59.7860	-144.6850	46	0	Isotope Analysis; Finney
GP20501.07	WP2	5	23	CSE1	24	7	0216	E	59.7860	-144.6860	46	43	
GP20501.08	Trawl	21	23	CSE1	24	7	0303	S	59.7880	-144.6660	40	0	
GP20501.09	Trawl	21	23	CSE1	24	7	0333	E	59.7760	-144.7400	51	0	
GP20601.01	CTD	22	24	CC1	24	7	1405	S	59.7130	-147.8250	71	0	
GP20601.02	CTD	22	24	CC1	24	7	1409	E	59.7130	-147.8280	71	70	
GP20601.03	Tucker	22	24	CC1	24	7	1414	S	59.7140	-147.8290	73	0	
GP20601.04	Tucker	22	24	CC1	24	7	1419	E	59.7160	-147.8300	73	0	

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20601.05	WP2	6	24	CC1	24	7	1423	S	59.7170	-147.8300	72	0	Isotope Analysis; Finney
GP20601.06	WP2	6	24	CC1	24	7	1425	E	59.7170	-147.8300	72	70	
GP20601.07	Trawl	22	24	CC1	24	7	1519	S	59.7430	-147.8110	58	0	
GP20601.08	Trawl	22	24	CC1	24	7	1549	E	59.7050	-147.8100	75	0	
GP20601.09	CTD	23	25	CC3	24	7	1715	S	59.5640	-147.6080	102	0	
GP20601.10	CTD	23	25	CC3	24	7	1720	E	59.5620	-147.6080	102	100	
GP20601.11	Tucker	23	25	CC3	24	7	1725	S	59.5620	-147.6090	101	0	
GP20601.12	Tucker	23	25	CC3	24	7	1730	E	59.5630	-147.6130	102	0	
GP20601.13	Trawl	23	25	CC3	24	7	1807	S	59.5830	-147.6480	104	0	
GP20601.14	Trawl	23	25	CC3	24	7	1837	E	59.5500	-147.6130	97	0	
GP20601.15	Drifter	4	25	CC3	24	7	1914	nd	59.5400	-147.6040	99	nd	No. 22394; Stabeno
GP20601.16	CTD	24	26	CC5	24	7	2040	S	59.3560	-147.3370	155	0	
GP20601.17	CTD	24	26	CC5	24	7	2046	E	59.3560	-147.3350	155	150	
GP20601.18	Tucker	24	26	CC5	24	7	2051	S	59.3560	-147.3340	156	0	
GP20601.19	Tucker	24	26	CC5	24	7	2056	E	59.3560	-147.3390	152	0	
GP20601.20	Trawl	24	26	CC5	24	7	2135	S	59.3760	-147.3820	113	0	
GP20601.21	Trawl	24	26	CC5	24	7	2205	E	59.3450	-147.3360	154	0	
GP20601.22	CTD	25	27	CC6	24	7	2321	S	59.2280	-147.1460	201	0	
GP20601.23	CTD	25	27	CC6	24	7	2332	E	59.2280	-147.1440	203	200	
GP20601.24	Tucker	25	27	CC6	24	7	2339	S	59.2300	-147.1440	199	0	
GP20601.25	Tucker	25	27	CC6	24	7	2344	E	59.2320	-147.1470	196	0	
GP20601.26	Trawl	25	27	CC6	25	7	0025	S	59.2530	-147.1880	188	0	
GP20601.27	Trawl	25	27	CC6	25	7	0055	E	59.2240	-147.1420	212	0	
GP20601.28	Drifter	5	27	CC6	25	7	0138	nd	59.2560	-147.1900	182	nd	No. 24053; Stabeno
GP20601.29	CTD	26	28	CC7	25	7	0307	S	59.0510	-146.9590	>2000	0	
GP20601.30	CTD	26	28	CC7	25	7	0316	E	59.0530	-146.9500	>2000	200	
GP20601.31	Tucker	26	28	CC7	25	7	0322	S	59.0550	-146.9440	>2000	0	
GP20601.32	Tucker	26	28	CC7	25	7	0327	E	59.0580	-146.9430	>2000	0	
GP20601.33	WP2	7	28	CC7	25	7	0332	S	59.0600	-146.9400	>2000	0	Isotope Analysis; Finney
GP20601.34	WP2	7	28	CC7	25	7	0336	E	59.0610	-146.9360	>2000	100	
GP20601.35	Trawl	26	28	CC7	25	7	0419	S	59.0770	-146.9620	1931	0	
GP20601.36	Trawl	26	28	CC7	25	7	0449	E	59.0420	-146.9020	>2000	0	
GP20701.01	CTD	27	29	GAK12	25	7	1343	S	58.2410	-147.9380	>2000	0	
GP20701.02	CTD	27	29	GAK12	25	7	1357	E	58.2400	-147.9430	>2000	200	
GP20701.03	Tucker	27	29	GAK12	25	7	1404	S	58.2390	-147.9430	>2000	0	
GP20701.04	Tucker	27	29	GAK12	25	7	1409	E	58.2360	-147.9420	>2000	0	
GP20701.05	WP2	8	29	GAK12	25	7	1413	S	58.2350	-147.9430	>2000	0	Isotope Analysis; Finney
GP20701.06	WP2	8	29	GAK12	25	7	1415	E	58.2350	-147.9430	>2000	100	
GP20701.07	Trawl	27	29	GAK12	25	7	1450	S	58.2150	-147.9240	>2000	0	
GP20701.08	Trawl	27	29	GAK12	25	7	1520	E	58.2420	-147.9630	>2000	0	
GP20701.09	CTD	28	30	GAK11	25	7	1644	S	58.3910	-148.0730	1381	0	
GP20701.10	CTD	28	30	GAK11	25	7	1653	E	58.3950	-148.0700	1379	200	
GP20701.11	Tucker	28	30	GAK11	25	7	1700	S	58.3950	-148.0650	1383	0	
GP20701.12	Tucker	28	30	GAK11	25	7	1705	E	58.3930	-148.0610	1388	0	
GP20701.13	Trawl	28	30	GAK11	25	7	1745	S	58.7090	-148.0420	1542	0	
GP20701.14	Trawl	28	30	GAK11	25	7	1815	E	58.4100	-148.0700	1372	0	
GP20701.15	CTD	29	31	GAK10	25	7	1937	S	58.5410	-148.2090	1421	0	
GP20701.16	CTD	29	31	GAK10	25	7	1948	E	58.5400	-148.2070	1441	200	



Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20701.17	Tucker	29	31	GAK10	25	7	1954	S	58.5390	-148.2040	1447	0	
GP20701.18	Tucker	29	31	GAK10	25	7	2000	E	58.5360	-148.2010	1465	0	
GP20701.19	Trawl	29	31	GAK10	25	7	2035	S	58.5200	-148.1870	1575	0	
GP20701.20	Trawl	29	31	GAK10	25	7	2105	E	58.5510	-148.2220	1339	0	
GP20701.21	CTD	30	32	GAK9	25	7	2225	S	58.6820	-148.3540	269	0	
GP20701.22	CTD	30	32	GAK9	25	7	2235	E	58.6830	-148.3590	269	200	
GP20701.23	Tucker	30	32	GAK9	25	7	2245	S	58.6840	-148.3650	269	0	
GP20701.24	Tucker	30	32	GAK9	25	7	2250	E	58.6820	-148.3670	267	0	
GP20701.25	Trawl	30	32	GAK9	25	7	2346	S	58.6550	-148.3440	258	0	
GP20701.26	Trawl	30	32	GAK9	26	7	0016	E	58.6890	-148.3910	263	0	
GP20701.27	Drifter	6	32	GAK9	26	7	0052	nd	58.6950	-148.3880	265	nd	No. 22579; Stabeno
GP20701.28	CTD	31	33	GAK8	26	7	0140	S	58.7980	-148.5030	283	0	
GP20701.29	CTD	31	33	GAK8	26	7	0150	E	58.7980	-148.5000	282	200	
GP20701.30	Tucker	31	33	GAK8	26	7	0156	S	58.7980	-148.4970	282	0	
GP20701.31	Tucker	31	33	GAK8	26	7	0201	E	58.7960	-148.4930	282	0	
GP20701.32	Trawl	31	33	GAK8	26	7	0238	S	58.7770	-148.4610	272	0	
GP20701.33	Trawl	31	33	GAK8	26	7	0308	E	58.8110	-148.4940	280	0	
GP20801.01	CTD	32	34	GAK7	26	7	1335	S	58.9720	-148.6350	234	0	
GP20801.02	CTD	32	34	GAK7	26	7	1349	E	58.9720	-148.6340	234	200	
GP20801.03	Tucker	32	34	GAK7	26	7	1352	S	58.9690	-148.6330	237	0	
GP20801.04	Tucker	32	34	GAK7	26	7	1357	E	58.9670	-148.6320	239	0	
GP20801.05	WP2	9	34	GAK7	26	7	1401	S	58.9650	-148.6310	238	0	Isotope Analysis; Finney
GP20801.06	WP2	9	34	GAK7	26	7	1404	E	58.9650	-148.6320	238	100	
GP20801.07	Trawl	32	34	GAK7	26	7	1443	S	58.9470	-148.6180	247	0	
GP20801.08	Trawl	32	34	GAK7	26	7	1513	E	58.9770	-148.6580	232	0	
GP20801.09	Drifter	7	34	GAK7	26	7	1541	nd	58.9840	-148.6630	230	nd	No. 21956; Stabeno
GP20801.10	CTD	33	35	GAK6	26	7	1636	S	59.1170	-148.7650	144	0	
GP20801.11	CTD	33	35	GAK6	26	7	1643	E	59.1170	-148.7610	145	140	
GP20801.12	Tucker	33	35	GAK6	26	7	1649	S	59.1160	-148.7580	146	0	
GP20801.13	Tucker	33	35	GAK6	26	7	1654	E	59.1140	-148.7540	144	0	
GP20801.14	Trawl	33	35	GAK6	26	7	1730	S	59.0910	-148.7130	159	0	
GP20801.15	Trawl	33	35	GAK6	26	7	1800	E	59.1190	-148.7440	144	0	
GP20801.16	CTD	34	36	GAK5	26	7	1926	S	59.2620	-148.9020	157	0	
GP20801.17	CTD	34	36	GAK5	26	7	1933	E	59.2630	-148.9000	157	155	
GP20801.18	Tucker	34	36	GAK5	26	7	1939	S	59.2620	-148.8980	157	0	
GP20801.19	Tucker	34	36	GAK5	26	7	1944	E	59.2600	-148.8940	155	0	
GP20801.20	Trawl	34	36	GAK5	26	7	2022	S	59.2350	-148.8690	148	0	
GP20801.21	Trawl	34	36	GAK5	26	7	2052	E	59.2600	-148.9120	159	0	
GP20801.22	Drifter	8	36	GAK5	26	7	2118	nd	59.2630	-148.9270	160	nd	No. 22343; Stabeno
GP20801.23	CTD	35	37	GAK4	26	7	2240	S	59.4090	-149.0520	190	0	
GP20801.24	CTD	35	37	GAK4	26	7	2251	E	59.4100	-149.0540	192	190	
GP20801.25	Tucker	35	37	GAK4	26	7	2258	S	59.4100	-149.0540	192	0	
GP20801.26	Tucker	35	37	GAK4	26	7	2303	E	59.4090	-149.0500	192	0	
GP20801.27	Trawl	35	37	GAK4	26	7	2338	S	59.4110	-149.0200	187	0	
GP20801.28	Trawl	35	37	GAK4	27	7	0008	E	59.4440	-149.0650	190	0	
GP20801.29	CTD	36	38	GAK3	27	7	0117	S	59.5450	-149.2260	218	0	
GP20801.30	CTD	36	38	GAK3	27	7	0128	E	59.5440	-149.2280	219	200	
GP20801.31	Tucker	36	38	GAK3	27	7	0139	S	59.5480	-149.2110	210	0	

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20801.32	Tucker	36	38	GAK3	27	7	0144	E	59.5490	-149.2060	210	0	
GP20801.33	WP2	10	38	GAK3	27	7	0151	S	59.5490	-149.2030	210	0	Isotope Analysis; Finney
GP20801.34	WP2	10	38	GAK3	27	7	0154	E	59.5490	-149.2040	210	100	
GP20801.35	Trawl	36	38	GAK3	27	7	0240	S	59.5410	-149.1790	207	0	
GP20801.36	Trawl	36	38	GAK3	27	7	0310	E	59.5710	-149.2200	210	0	
GP20801.37	CTD	37	38	GAK3	27	7	0532	S	59.5550	-149.1850	205	0	
GP20801.38	CTD	37	38	GAK3	27	7	0545	E	59.5550	-149.1820	203	200	
GP20801.39	Tucker	37	38	GAK3	27	7	0554	S	59.5540	-149.1790	203	0	
GP20801.40	Tucker	37	38	GAK3	27	7	0559	E	59.5520	-149.1770	203	0	
GP20801.41	Trawl	37	38	GAK3	27	7	0630	S	59.5360	-149.1700	203	0	
GP20801.42	Trawl	37	38	GAK3	27	7	0700	E	59.5650	-149.2130	207	0	
GP20901.01	CTD	38	38	GAK3	27	7	0934	S	59.5540	-149.1840	203	0	
GP20901.02	CTD	38	38	GAK3	27	7	0948	E	59.5540	-149.1810	203	200	
GP20901.03	Tucker	38	38	GAK3	27	7	0957	S	59.5500	-149.1740	201	0	
GP20901.04	Tucker	38	38	GAK3	27	7	1002	E	59.5480	-149.1720	199	0	
GP20901.05	Trawl	38	38	GAK3	27	7	1036	S	59.5360	-149.1750	203	0	
GP20901.06	Trawl	38	38	GAK3	27	7	1106	E	59.5630	-149.2090	207	0	
GP20901.07	CTD	39	38	GAK3	27	7	1332	S	59.5550	-149.1900	207	0	
GP20901.08	CTD	39	38	GAK3	27	7	1344	E	59.5550	-149.1920	207	200	
GP20901.09	Tucker	39	38	GAK3	27	7	1354	S	59.5530	-149.1900	207	0	
GP20901.10	Tucker	39	38	GAK3	27	7	1359	E	59.5500	-149.1910	207	0	
GP20901.11	Trawl	39	38	GAK3	27	7	1441	S	59.5420	-149.1880	207	0	
GP20901.12	Trawl	39	38	GAK3	27	7	1511	E	59.5760	-149.2180	207	0	
GP20901.13	CTD	40	38	GAK3	27	7	1729	S	59.5530	-149.1940	203	0	
GP20901.14	CTD	40	38	GAK3	27	7	1738	E	59.5540	-149.1950	207	200	
GP20901.15	Tucker	40	38	GAK3	27	7	1748	S	59.5550	-149.1950	207	0	
GP20901.16	Tucker	40	38	GAK3	27	7	1753	E	59.5530	-149.1930	207	0	
GP20901.17	Trawl	40	38	GAK3	27	7	1829	S	59.5380	-149.1690	203	0	
GP20901.18	Trawl	40	38	GAK3	27	7	1859	E	59.5680	-149.2160	208	0	
GP20901.19	CTD	41	38	GAK3	27	7	2128	S	59.5520	-149.1920	205	0	
GP20901.20	CTD	41	38	GAK3	27	7	2139	E	59.5510	-149.1900	205	200	
GP20901.21	Tucker	41	38	GAK3	27	7	2147	S	59.5490	-149.1850	205	0	
GP20901.22	Tucker	41	38	GAK3	27	7	2152	E	59.5460	-149.1840	205	0	
GP20901.23	Trawl	41	38	GAK3	27	7	2230	S	59.5350	-149.1690	203	0	
GP20901.24	Trawl	41	38	GAK3	27	7	2300	E	59.5670	-149.1960	203	0	
GP20901.25	Drifter	9	38	GAK3	27	7	2337	nd	59.5810	-149.1990	200	nd	No. 24036; Stabeno
GP20901.26	CTD	42	39	GAK2	28	7	0033	S	59.6910	-149.3320	221	0	
GP20901.27	CTD	42	39	GAK2	28	7	0043	E	59.6900	-149.3330	221	200	
GP20901.28	Tucker	42	39	GAK2	28	7	0051	S	59.6880	-149.3320	219	0	
GP20901.29	Tucker	42	39	GAK2	28	7	0056	E	59.6850	-149.3290	219	0	
GP20901.30	Trawl	42	39	GAK2	28	7	0131	S	59.6720	-149.3190	214	0	
GP20901.31	Trawl	42	39	GAK2	28	7	0201	E	59.7000	-149.3440	227	0	
GP20901.32	Drifter	10	39	GAK2	28	7	0234	nd	59.7130	-149.3500	225	nd	No. 24210; Stabeno
GP20901.33	CTD	43	40	GAK1	28	7	0328	S	59.8420	-149.4880	262	0	
GP20901.34	CTD	43	40	GAK1	28	7	0341	E	59.8420	-149.4900	263	200	
GP20901.35	Tucker	43	40	GAK1	28	7	0350	S	59.8410	-149.4900	263	0	
GP20901.36	Tucker	43	40	GAK1	28	7	0355	E	59.8390	-149.4870	263	0	
GP20901.37	WP2	11	40	GAK1	28	7	0400	S	59.8370	-149.4840	263	0	Isotope Analysis; Finney

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP20901.38	WP2	11	40	GAK1	28	7	0403	E	59.8360	-149.4830	263	100	
GP20901.39	Trawl	43	40	GAK1	28	7	0433	S	59.8360	-149.4610	262	0	
GP20901.40	Trawl	43	40	GAK1	28	7	0503	E	59.8690	-149.4950	245	0	
GP21101.01	CTD	44	41	GP1	29	7	1525	S	59.1860	-150.9530	35	0	
GP21101.02	CTD	44	41	GP1	29	7	1531	E	59.1850	-150.9530	29	27	
GP21101.03	Tucker	44	41	GP1	29	7	1542	S	59.1820	-150.9550	33	0	
GP21101.04	Tucker	44	41	GP1	29	7	1547	E	59.1790	-150.9550	35	0	
GP21101.05	Trawl	44	41	GP1	29	7	1630	S	59.1560	-150.9310	69	0	
GP21101.06	Trawl	44	41	GP1	29	7	1700	E	59.1260	-150.8860	86	0	
GP21101.07	CTD	45	42	GP3	29	7	1914	S	58.8830	-150.7340	121	0	
GP21101.08	CTD	45	42	GP3	29	7	1921	E	58.8830	-150.7370	121	120	
GP21101.09	WP2	12	42	GP3	29	7	1926	S	58.8820	-150.7360	121	0	Isotope Analysis; Finney
GP21101.10	WP2	12	42	GP3	29	7	1929	E	58.8820	-150.7370	121	100	
GP21101.11	Tucker	45	42	GP3	29	7	1937	S	58.8810	-150.7400	121	0	
GP21101.12	Tucker	45	42	GP3	29	7	1937	E	58.8810	-150.7440	121	0	
GP21101.13	Trawl	45	42	GP3	29	7	2029	S	58.8920	-150.7480	134	0	
GP21101.14	Trawl	45	42	GP3	29	7	2059	E	58.8590	-150.7160	137	0	
GP21101.15	CTD	46	43	GP4	29	7	2225	S	58.7330	-150.6330	183	0	
GP21101.16	CTD	46	43	GP4	29	7	2233	E	58.7330	-150.6320	183	180	
GP21101.17	Tucker	46	43	GP4	29	7	2242	S	58.7340	-150.6320	185	0	
GP21101.18	Tucker	46	43	GP4	29	7	2247	E	58.7360	-150.6330	179	0	
GP21101.19	Trawl	46	43	GP4	29	7	2330	S	58.7490	-150.6460	181	0	
GP21101.20	Trawl	46	43	GP4	30	7	0000	E	58.7110	-150.6050	196	0	
GP21101.21	CTD	47	44	GP5	30	7	0113	S	58.5830	-150.4900	176	0	
GP21101.22	CTD	47	44	GP5	30	7	0124	E	58.5830	-150.4900	177	175	
GP21101.23	WP2	13	44	GP5	30	7	0133	S	58.5820	-150.4900	177	0	Isotope Analysis; Finney
GP21101.24	WP2	13	44	GP5	30	7	0137	E	58.5820	-150.4900	177	100	
GP21101.25	Tucker	47	44	GP5	30	7	0142	S	58.5830	-150.4920	179	0	
GP21101.26	Tucker	47	44	GP5	30	7	0147	E	58.5840	-150.4920	179	0	
GP21101.27	Trawl	47	44	GP5	30	7	0222	S	58.6000	-150.5170	192	0	
GP21101.28	Trawl	47	44	GP5	30	7	0252	E	58.5710	-150.4730	168	0	
GP21101.29	Drifter	11	44	GP5	30	7	0323	nd	58.5650	-150.4530	161	nd	No. 23929; Stabeno
GP21201.01	CTD	48	45	GP6	30	7	1430	S	58.4160	-150.3750	66	0	
GP21201.02	CTD	48	45	GP6	30	7	1434	E	58.4160	-150.3770	66	64	
GP21201.03	WP2	14	45	GP6	30	7	1439	S	58.4160	-150.3790	66	0	Isotope Analysis; Finney
GP21201.04	WP2	14	45	GP6	30	7	1442	E	58.4160	-150.3800	66	64	
GP21201.05	Tucker	48	45	GP6	30	7	1453	S	58.4170	-150.3840	68	0	
GP21201.06	Tucker	48	45	GP6	30	7	1458	E	58.4180	-150.3820	68	0	
GP21201.07	Trawl	48	45	GP6	30	7	1545	S	58.4370	-150.3820	70	0	
GP21201.08	Trawl	48	45	GP6	30	7	1615	E	58.4010	-150.3700	64	0	
GP21201.09	CTD	49	46	GP7	30	7	1737	S	58.2670	-150.2680	57	0	
GP21201.10	CTD	49	46	GP7	30	7	1741	E	58.2680	-150.2700	57	55	
GP21201.11	Tucker	49	46	GP7	30	7	1746	S	58.2710	-150.2730	57	0	
GP21201.12	Tucker	49	46	GP7	30	7	1751	E	58.2740	-150.2750	55	0	
GP21201.13	Trawl	49	46	GP7	30	7	1826	S	58.2900	-150.2900	49	0	
GP21201.14	Trawl	49	46	GP7	30	7	1856	E	58.2660	-150.2620	57	0	
GP21201.15	CTD	50	47	GP8	30	7	2029	S	58.1160	-150.1530	252	0	
GP21201.16	CTD	50	47	GP8	30	7	2039	E	58.1190	-150.1550	247	200	

**Appendix I (cont'd)**

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21201.17	Tucker	50	47	GP8	30	7	2049	S	58.1210	-150.1540	245	0	
GP21201.18	Tucker	50	47	GP8	30	7	2054	E	58.1180	-150.1540	249	0	
GP21201.19	Trawl	50	47	GP8	30	7	2140	S	59.1330	-150.1460	249	0	
GP21201.20	Trawl	50	47	GP8	30	7	2210	E	58.0960	-150.1160	296	0	
GP21201.21	CTD	51	48	GP9	30	7	2328	S	57.9690	-150.0380	245	0	
GP21201.22	CTD	51	48	GP9	30	7	2338	E	57.9690	-150.0360	245	200	
GP21201.23	Tucker	51	48	GP9	30	7	2345	S	57.9690	-150.0330	245	0	
GP21201.24	Tucker	51	48	GP9	30	7	2350	E	57.9670	-150.0300	245	0	
GP21201.25	Trawl	51	48	GP9	31	7	0032	S	57.9740	-150.0380	245	0	
GP21201.26	Trawl	51	48	GP9	31	7	0102	E	57.9400	-150.0090	243	0	
GP21201.27	CTD	52	49	GP10	31	7	0209	S	57.8340	-149.9290	247	0	
GP21201.28	CTD	52	49	GP10	31	7	0220	E	57.8340	-149.9270	247	200	
GP21201.29	WP2	15	49	GP10	31	7	0225	S	57.8340	-149.9260	247	0	Isotope Analysis; Finney
GP21201.30	WP2	15	49	GP10	31	7	0228	E	57.8340	-149.9260	247	100	
GP21201.31	Tucker	52	49	GP10	31	7	0233	S	57.8340	-149.9250	247	0	
GP21201.32	Tucker	52	49	GP10	31	7	0238	E	57.8350	-149.9190	247	0	
GP21201.33	Trawl	52	49	GP10	31	7	0315	S	57.8450	-149.9400	249	0	
GP21201.34	Trawl	52	49	GP10	31	7	0345	E	57.8130	-149.8950	247	0	
GP21301.01	CTD	53	50	GP11	31	7	1350	S	57.6490	-149.8050	578	0	
GP21301.02	CTD	53	50	GP11	31	7	1403	E	57.6470	-149.7990	607	200	
GP21301.03	WP2	16	50	GP11	31	7	1408	S	57.6450	-149.7960	624	0	Isotope Analysis; Finney
GP21301.04	WP2	16	50	GP11	31	7	1412	E	57.6450	-149.7940	640	100	
GP21301.05	Tucker	53	50	GP11	31	7	1422	S	57.6450	-149.7980	609	0	
GP21301.06	Tucker	53	50	GP11	31	7	1427	E	57.6470	-149.7990	607	0	
GP21301.07	Trawl	53	50	GP11	31	7	1515	S	57.6550	-149.8140	550	0	
GP21301.08	Trawl	53	50	GP11	31	7	1545	E	57.6140	-149.7860	808	0	
GP21301.09	CTD	54	51	GP12	31	7	1657	S	57.4890	-149.6920	1450	0	
GP21301.10	CTD	54	51	GP12	31	7	1708	E	57.4870	-149.6930	1458	200	
GP21301.11	Tucker	54	51	GP12	31	7	1715	S	57.4850	-149.6970	1467	0	
GP21301.12	Tucker	54	51	GP12	31	7	1720	E	57.4850	-149.7030	1467	0	
GP21301.13	Trawl	54	51	GP12	31	7	1757	S	57.5020	-149.7070	1415	0	
GP21301.14	Trawl	54	51	GP12	31	7	1827	E	57.4720	-149.6800	1805	0	
GP21301.15	CTD	55	52	GP13	31	7	1952	S	57.3410	-149.5620	>2000	0	
GP21301.16	CTD	55	52	GP13	31	7	2005	E	57.3410	-149.5620	>2000	200	
GP21301.17	Tucker	55	52	GP13	31	7	2012	S	57.3420	-149.5660	>2000	0	
GP21301.18	Tucker	55	52	GP13	31	7	2017	E	57.3450	-149.5680	>2000	0	
GP21301.19	Trawl	55	52	GP13	31	7	2052	S	57.3580	-149.5780	>2000	0	
GP21301.20	Trawl	55	52	GP13	31	7	2122	E	57.3310	-149.5510	>2000	0	
GP21301.21	CTD	56	53	GP14	31	7	2300	S	57.1900	-149.4330	>2000	0	
GP21301.22	CTD	56	53	GP14	31	7	2309	E	57.1890	-149.4360	>2000	200	
GP21301.23	WP2	17	53	GP14	31	7	2318	S	57.1880	-149.4390	>2000	0	Isotope Analysis; Finney
GP21301.24	WP2	17	53	GP14	31	7	2321	E	57.1880	-149.4390	>2000	100	
GP21301.25	Tucker	56	53	GP14	31	7	2326	S	57.1870	-149.4420	>2000	0	
GP21301.26	Tucker	56	53	GP14	31	7	2331	E	57.1890	-149.4460	>2000	0	
GP21301.27	Trawl	56	53	GP14	1	8	0015	S	57.1980	-149.4560	>2000	0	
GP21301.28	Trawl	56	53	GP14	1	8	0045	E	57.1700	-149.4280	>2000	0	
GP21401.01	CTD	57	54	CCH7	1	8	1350	S	56.2800	-150.8510	>2000	0	
GP21401.02	CTD	57	54	CCH7	1	8	1403	E	56.2750	-150.8510	>2000	200	

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21401.03	WP2	18	54	CCH7	1	8	1409	S	56.2730	-150.8530	>2000	0	Isotope Analysis; Finney
GP21401.04	WP2	18	54	CCH7	1	8	1412	E	56.2720	-150.8530	>2000	100	
GP21401.05	Tucker	57	54	CCH7	1	8	1420	S	56.2710	-150.8560	>2000	0	
GP21401.06	Tucker	57	54	CCH7	1	8	1425	E	56.2740	-150.8570	>2000	0	
GP21401.07	Trawl	57	54	CCH7	1	8	1502	S	56.2630	-150.8650	>2000	0	
GP21401.08	Trawl	57	54	CCH7	1	8	1532	E	56.2960	-150.8870	>2000	0	
GP21401.09	CTD	58	55	CCH6	1	8	1717	S	56.4960	-151.0640	>2000	0	
GP21401.10	CTD	58	55	CCH6	1	8	1728	E	56.4950	-151.0660	>2000	200	
GP21401.11	Tucker	58	55	CCH6	1	8	1733	S	56.4950	-151.0690	>2000	0	
GP21401.12	Tucker	58	55	CCH6	1	8	1738	E	56.4970	-151.0680	>2000	0	
GP21401.13	Trawl	58	55	CCH6	1	8	1819	S	56.4790	-151.0530	>2000	0	
GP21401.14	Trawl	58	55	CCH6	1	8	1849	E	56.5140	-151.0890	>2000	0	
GP21401.15	CTD	59	56	CCH5	1	8	2033	S	56.7100	-151.2840	1423	0	
GP21401.16	CTD	59	56	CCH5	1	8	2044	E	56.7070	-151.2870	1423	200	
GP21401.17	Tucker	59	56	CCH5	1	8	2050	S	56.7070	-151.2900	1333	0	
GP21401.18	Tucker	59	56	CCH5	1	8	2055	E	56.7090	-151.2920	1269	0	
GP21401.19	Trawl	59	56	CCH5	1	8	2140	S	56.6970	-151.2860	1580	0	
GP21401.20	Trawl	59	56	CCH5	1	8	2210	E	56.7330	-151.3190	808	0	
GP21401.21	CTD	60	57	CCH4	1	8	2356	S	56.9310	-151.5010	364	0	
GP21401.22	CTD	60	57	CCH4	2	8	0001	E	56.9300	-151.5010	366	200	
GP21401.23	Tucker	60	57	CCH4	2	8	0006	S	56.9280	-151.5020	369	0	
GP21401.24	Tucker	60	57	CCH4	2	8	0011	E	56.9270	-151.5060	357	0	
GP21401.25	Trawl	60	57	CCH4	2	8	0054	S	56.9130	-151.4880	571	0	
GP21401.26	Trawl	60	57	CCH4	2	8	0124	E	56.9450	-151.5210	205	0	
GP21501.01	CTD	61	58	CCH3	2	8	1351	S	57.1500	-151.7310	75	0	
GP21501.02	CTD	61	58	CCH3	2	8	1357	E	57.1490	-151.7310	75	73	
GP21501.03	Tucker	61	58	CCH3	2	8	1402	S	57.1480	-151.7310	75	0	
GP21501.04	Tucker	61	58	CCH3	2	8	1407	E	57.1500	-151.7340	75	0	
GP21501.05	Trawl	61	58	CCH3	2	8	1447	S	57.1280	-151.7160	73	0	
GP21501.06	Trawl	61	58	CCH3	2	8	1517	E	57.1580	-151.7360	75	0	
GP21501.07	CTD	62	59	CCH2	2	8	1718	S	57.3690	-151.9430	64	0	
GP21501.08	CTD	62	59	CCH2	2	8	1721	E	57.3680	-151.9440	64	62	
GP21501.09	Tucker	62	59	CCH2	2	8	1725	S	57.3690	-151.9440	64	0	
GP21501.10	Tucker	62	59	CCH2	2	8	1730	E	57.3710	-151.9410	64	0	
GP21501.11	Trawl	62	59	CCH2	2	8	1807	S	57.3590	-151.9370	64	0	
GP21501.12	Trawl	62	59	CCH2	2	8	1837	E	57.3960	-151.9690	66	0	
GP21501.13	CTD	63	60	CCH1	2	8	2018	S	57.5760	-152.1460	37	0	
GP21501.14	CTD	63	60	CCH1	2	8	2020	E	57.5770	-152.1460	37	35	
GP21501.15	WP2	19	60	CCH1	2	8	2022	S	57.5780	-152.1470	37	0	Isotope Analysis; Finney
GP21501.16	WP2	19	60	CCH1	2	8	2023	E	57.5790	-152.1470	37	35	
GP21501.17	Tucker	63	60	CCH1	2	8	2028	S	57.5790	-152.1480	35	0	
GP21501.18	Tucker	63	60	CCH1	2	8	2033	E	57.5780	-152.1460	37	0	
GP21501.19	Trawl	63	60	CCH1	2	8	2100	S	57.3960	-152.1200	73	0	
GP21501.20	Trawl	63	60	CCH1	2	8	2130	E	57.5760	-152.0780	66	0	
GP21601.01	CTD	64	61	CN1	3	8	1357	S	58.0500	-153.4520	73	0	
GP21601.02	CTD	64	61	CN1	3	8	1402	E	58.0500	-153.4510	73	72	
GP21601.03	Tucker	64	61	CN1	3	8	1405	S	58.0490	-153.4450	69	0	
GP21601.04	Tucker	64	61	CN1	3	8	1410	E	58.0510	-153.4410	48	0	

Appendix I (cont'd)

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21601.05	Trawl	64	61	CN1	3	8	1448	S	58.0410	-153.4380	82	0	
GP21601.06	Trawl	64	61	CN1	3	8	1518	E	58.0730	-153.4890	79	0	
GP21601.07	CTD	65	62	CN2	3	8	1716	S	58.1830	-153.6820	183	0	
GP21601.08	CTD	65	62	CN2	3	8	1726	E	58.1810	-153.6800	183	180	
GP21601.09	WP2	20	62	CN2	3	8	1732	S	58.1820	-153.6820	183	0	Isotope Analysis; Finney
GP21601.10	WP2	20	62	CN2	3	8	1735	E	58.1820	-153.6820	183	100	
GP21601.11	Tucker	65	62	CN2	3	8	1743	S	58.1820	-153.6830	183	0	
GP21601.12	Tucker	65	62	CN2	3	8	1748	E	58.1840	-153.6850	183	0	
GP21601.13	Trawl	65	62	CN2	3	8	1836	S	58.1780	-153.6760	183	0	
GP21601.14	Trawl	65	62	CN2	3	8	1906	E	58.2030	-153.7180	183	0	
GP21601.15	CTD	66	63	CN3	3	8	2330	S	58.3660	-153.9330	62	0	
GP21601.16	CTD	66	63	CN3	3	8	2332	E	58.3660	-153.9330	62	60	
GP21601.17	Tucker	66	63	CN3	3	8	2336	S	58.3660	-153.9350	55	0	
GP21601.18	Tucker	66	63	CN3	3	8	2341	E	58.3670	-153.9320	64	0	
GP21601.19	Trawl	66	63	CN3	3	8	0023	S	58.3620	-153.9290	88	0	
GP21601.20	Trawl	66	63	CN3	3	8	0053	E	58.3270	-153.8820	241	0	
GP21701.01	CTD	67	64	CK1	4	8	1359	S	57.6990	-155.2840	274	0	
GP21701.02	CTD	67	64	CK1	4	8	1411	E	57.6950	-155.2860	280	200	
GP21701.03	Tucker	67	64	CK1	4	8	1418	S	57.6950	-155.2880	278	0	
GP21701.04	Tucker	67	64	CK1	4	8	1423	E	57.6970	-155.2880	271	0	
GP21701.05	Trawl	67	64	CK1	4	8	1502	S	57.6980	-155.2790	280	0	
GP21701.06	Trawl	67	64	CK1	4	8	1532	E	57.6730	-155.2270	287	0	
GP21701.07	CTD	68	65	CK2	4	8	1704	S	57.5810	-155.0500	229	0	
GP21701.08	CTD	68	65	CK2	4	8	1716	E	57.5780	-155.0500	227	200	
GP21701.09	WP2	21	65	CK2	4	8	1727	S	57.5850	-155.0480	229	0	Isotope Analysis; Finney
GP21701.10	WP2	21	65	CK2	4	8	1732	E	57.5840	-155.0480	227	100	
GP21701.11	Tucker	68	65	CK2	4	8	1742	S	57.5810	-155.0510	229	0	
GP21701.12	Tucker	68	65	CK2	4	8	1747	E	57.5820	-155.0560	229	0	
GP21701.13	Trawl	68	65	CK2	4	8	1825	S	57.5910	-155.0710	232	0	
GP21701.14	Trawl	68	65	CK2	4	8	1855	E	57.5670	-155.0280	223	0	
GP21701.15	CTD	69	66	CK3	4	8	2247	S	57.4320	-154.7670	79	0	
GP21701.16	CTD	69	66	CK3	4	8	2251	E	57.4310	-154.7670	75	74	
GP21701.17	Tucker	69	66	CK3	4	8	2255	S	57.4310	-154.7690	79	0	
GP21701.18	Tucker	69	66	CK3	4	8	2300	E	57.4330	-154.7710	86	0	
GP21701.19	Trawl	69	66	CK3	4	8	2340	S	57.4220	-154.7580	60	0	
GP21701.20	Trawl	69	66	CK3	5	8	0010	E	57.4510	-154.8010	148	0	
GP21801.01	CTD	70	67	CKAG1	5	8	1355	S	56.6990	-153.9330	24	0	
GP21801.02	CTD	70	67	CKAG1	5	8	1356	E	56.6990	-153.9330	24	23	
GP21801.03	Tucker	70	67	CKAG1	5	8	1403	S	56.6990	-153.9300	24	0	
GP21801.04	Tucker	70	67	CKAG1	5	8	1408	E	56.6990	-153.9260	22	0	
GP21801.05	Trawl	70	67	CKAG1	5	8	1439	S	56.6730	-153.8980	59	0	
GP21801.06	Trawl	70	67	CKAG1	5	8	1509	E	56.6360	-153.8640	59	0	
GP21801.07	CTD	71	68	CKAG2	5	8	1638	S	56.4800	-153.7100	88	0	
GP21801.08	CTD	71	68	CKAG2	5	8	1641	E	56.4810	-153.7110	88	85	
GP21801.09	WP2	22	68	CKAG2	5	8	1644	S	56.4800	-153.7110	88	0	Isotope Analysis; Finney
GP21801.10	WP2	22	68	CKAG2	5	8	1646	E	56.4800	-153.7120	88	85	
GP21801.11	Tucker	71	68	CKAG2	5	8	1649	S	56.4800	-153.7140	88	0	
GP21801.12	Tucker	71	68	CKAG2	5	8	1654	E	56.4810	-153.7090	88	0	

**Appendix I (cont'd)**

Event #	Instr	Cast	Sta	Sta Std	Day	Mos	Time	S/E Flag	Lat	Long	Water Depth	Cast Depth	Comments
GP21801.13	Trawl	71	68	CKAG2	5	8	1729	S	56.4900	-153.7240	86	0	
GP21801.14	Trawl	71	68	CKAG2	5	8	1759	E	56.4550	-153.6880	84	0	
GP21801.15	CTD	72	69	CKAG3	5	8	1950	S	56.2610	-153.4960	80	0	
GP21801.16	CTD	72	69	CKAG3	5	8	1952	E	56.2600	-153.4970	82	79	
GP21801.17	Tucker	72	69	CKAG3	5	8	1955	S	56.2600	-153.5000	82	0	
GP21801.18	Tucker	72	69	CKAG3	5	8	2000	E	56.2570	-153.5010	82	0	
GP21801.19	Trawl	72	69	CKAG3	5	8	2036	S	56.2740	-153.5110	73	0	
GP21801.20	Trawl	72	69	CKAG3	5	8	2106	E	56.2480	-153.4830	84	0	
GP21801.21	CTD	73	70	CKAG4	5	8	2231	S	56.1120	-153.3420	958	0	
GP21801.22	CTD	73	70	CKAG4	5	8	2243	E	56.1120	-153.3470	958	200	
GP21801.23	Tucker	73	70	CKAG4	5	8	2247	S	56.1130	-153.3480	953	0	
GP21801.24	Tucker	73	70	CKAG4	5	8	2252	E	56.1120	-153.3450	949	0	
GP21801.25	Trawl	73	70	CKAG4	5	8	2325	S	56.1270	-153.3580	936	0	
GP21801.26	Trawl	73	70	CKAG4	5	8	2355	E	56.0970	-153.3320	911	0	
GP21801.27	CTD	74	71	CKAG5	6	8	0156	S	55.9010	-153.1320	>2000	0	
GP21801.28	CTD	74	71	CKAG5	6	8	0207	E	55.9010	-153.1350	>2000	200	
GP21801.29	Tucker	74	71	CKAG5	6	8	0211	S	55.9000	-153.1360	>2000	0	
GP21801.30	Tucker	74	71	CKAG5	6	8	0216	E	55.8970	-153.1370	>2000	0	
GP21801.31	Trawl	74	71	CKAG5	6	8	0300	S	55.9090	-153.1440	>2000	0	
GP21801.32	Trawl	74	71	CKAG5	6	8	0330	E	55.8750	-153.1020	>2000	0	
GP21901.01	CTD	75	72	CKAG6	6	8	1358	S	55.6800	-152.9100	>2000	0	
GP21901.02	CTD	75	72	CKAG6	6	8	1411	E	55.6790	-152.9090	>2000	200	
GP21901.03	WP2	23	72	CKAG6	6	8	1427	S	55.6780	-152.9070	>2000	0	Isotope Analysis; Finney
GP21901.04	WP2	23	72	CKAG6	6	8	1431	E	55.6780	-152.9060	>2000	100	
GP21901.05	Tucker	75	72	CKAG6	6	8	1441	S	55.6770	-152.9090	>2000	0	
GP21901.06	Tucker	75	72	CKAG6	6	8	1446	E	55.6790	-152.9120	>2000	0	
GP21901.07	Trawl	75	72	CKAG6	6	8	1520	S	55.6930	-152.9200	>2000	0	
GP21901.08	Trawl	75	72	CKAG6	6	8	1550	E	55.6570	-152.8840	>2000	0	