

# CRUISE REPORT

Cruise Number: DY08-08

FOCI Number: 4DY08

## Ship:

NOAA Ship *Oscar Dyson*

## Area of Operations:

Gulf of Alaska

## Itinerary:

**Date depart / port:** May 22, 2008 / Dutch Harbor, AK

**Date arrive / port:** May 31, 2008 / Dutch Harbor, AK

## Participating organizations:

NOAA - Alaska Fisheries Science Center (AFSC)

## Chief Scientist:

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## Personnel:

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## Cruise Objectives:

The objectives of this cruise were to conduct an ichthyoplankton survey and process oriented studies in the region between the Shumagin Islands to Shelikof Strait to estimate the abundance, transport, and factors influencing the survival of young walleye pollock larvae. Line 8 stations were sampled to continue the time series of environmental and biological conditions in Shelikof Strait.

## Summary of Operations:

### Operation

20cm bongo (20Bon)

60cm bongo (60Bon)

Seabird SeaCAT CTD (CAT)

CTD with bottle samples (CTDB)

### Tows

6

95

95

12

### Samples Collected

SeaBird SeaCat CTD (CAT)

Extracted chlorophyll (Chlor)

SeaBird CTD (CTD)

Stimulated fluorescence collected during CTD casts (Fluor)

### Tows Number

95

6 36

12

12

Number of larvae measured (L-meas)	82	965
Larval pollock collected for otolith analysis (L-Oto)	82	1679
Microzooplankton samples preserved in formalin (MZ)	6	36
Nutrient samples collected from CTD casts (Nut)	12	60
Photosynthetically Active Radiation data collected during CTD casts (PAR)	12	
Quantitative tow preserved in formalin (QTowF)	107	109
Rough count of pollock juveniles (RCountJ)	2	0
Rough count of pollock larvae (RCountL)	89	1719
P cod for T. Hurst (THPCOD)	54	145

## Summary of Cruise:

### Narrative:

A total of 89 stations on the standard grid were sampled using the 60 cm Bongo gear to estimate larval walleye pollock abundance. Fresh standard length measurements were obtained at each station where larval pollock occurred to supply data for a larval survival index. Standard sampling protocol were used at six Line 8 stations to continue the historical database for this area.

### Days Lost to Weather:

None

### Days Lost to Equipment Failure:

Two hours of sampling time were lost to diagnose a problem with data acquisition from the SeaCat unit. Damage to the wire termination was determined and the SeaCat and 60 cm Bongo gear were switched to the forward CTD wire until the termination could be repaired.

### Recommendations:

None

### Acknowledgments:

The scientific party would like to acknowledge the hard work and support of the officers and crew of the NOAA Ship Oscar Dyson. A very special thank you goes to Survey Tech./SCS System and Data Manager Kathy Hough for all or her help getting us setup with the MOA and SeaCat data acquisition.

### Attachments:

Table 1. Cruise Summary

## Cruise Summary For FOCI Cruise 4DY08 (DY08-08)

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected
24-May-08	11:16	1	1	GT151	BON001	231	56 16.31 N	157 56.36 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
24-May-08	11:16	1	1	GT151	BON001	231	56 16.31 N	157 56.36 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
24-May-08	11:16	1	1	GT151	BON001	231	56 16.31 N	157 56.36 W	CAT	CAT
24-May-08	12:42	2	1	GV151	BON002	142	56 09.03 N	157 45.33 W	60Bon	QTowF, RCountL, THPCOD
24-May-08	12:42	2	1	GV151	BON002	142	56 09.03 N	157 45.33 W	CAT	CAT
24-May-08	14:02	3	1	GX151	BON003	107	56 02.33 N	157 32.14 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
24-May-08	14:02	3	1	GX151	BON003	107	56 02.33 N	157 32.14 W	CAT	CAT
24-May-08	15:36	4	1	GZ151	BON004	106	55 55.36 N	157 18.84 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
24-May-08	15:36	4	1	GZ151	BON004	106	55 55.36 N	157 18.84 W	CAT	CAT
24-May-08	16:52	5	1	HB151	BON005	94	55 48.32 N	157 05.19 W	60Bon	L-meas, L-Oto, QTowF, RCountL
24-May-08	16:52	5	1	HB151	BON005	94	55 48.32 N	157 05.19 W	CAT	CAT
24-May-08	18:01	6	1	HD151	BON006	94	55 41.65 N	156 51.89 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
24-May-08	18:01	6	1	HD151	BON006	94	55 41.65 N	156 51.89 W	CAT	CAT
24-May-08	19:13	7	1	HF151	BON007	221	55 34.72 N	156 38.62 W	60Bon	L-meas, QTowF, RCountL
24-May-08	19:13	7	1	HF151	BON007	221	55 34.72 N	156 38.62 W	CAT	CAT
24-May-08	20:24	8	1	HH151	BON008	199	55 27.79 N	156 25.41 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected
24-May-08	20:24	8	1	HH151	BON008	199	55 27.79 N	156 25.41 W	CAT	CAT
24-May-08	21:36	9	1	HH153	BON009	254	55 35.31 N	156 13.26 W	60Bon	L-meas, L-Oto, QTowF, RCountL
24-May-08	21:36	9	1	HH153	BON009	254	55 35.31 N	156 13.26 W	CAT	CAT
24-May-08	22:52	10	1	HF153	BON010	239	55 41.91 N	156 26.64 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
24-May-08	22:52	10	1	HF153	BON010	239	55 41.91 N	156 26.64 W	CAT	CAT
25-May-08	0:15	11	1	HD153	BON011	223	55 49.04 N	156 39.51 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	0:15	11	1	HD153	BON011	223	55 49.04 N	156 39.51 W	CAT	CAT
25-May-08	1:38	12	1	HB153	BON012	152	55 55.99 N	156 53.12 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	1:38	12	1	HB153	BON012	152	55 55.99 N	156 53.12 W	CAT	CAT
25-May-08	3:03	13	1	GZ153	BON013	115	56 02.71 N	157 06.59 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	3:03	13	1	GZ153	BON013	115	56 02.71 N	157 06.59 W	CAT	CAT
25-May-08	4:28	14	1	GX153	BON014	156	56 09.58 N	157 19.76 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	4:28	14	1	GX153	BON014	156	56 09.58 N	157 19.76 W	CAT	CAT
25-May-08	5:50	15	1	GV153	BON015	140	56 16.34 N	157 33.28 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	5:50	15	1	GV153	BON015	140	56 16.34 N	157 33.28 W	CAT	CAT
25-May-08	7:11	16	1	GT153	BON016	291	56 23.35 N	157 46.69 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	7:11	16	1	GT153	BON016	291	56 23.35 N	157 46.69 W	CAT	CAT
25-May-08	8:32	17	1	GT155	BON017	115	56 30.58 N	157 33.93 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	8:32	17	1	GT155	BON017	115	56 30.58 N	157 33.93 W	CAT	CAT
25-May-08	9:45	18	1	GV155	BON018	59	56 23.85 N	157 21.19 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	9:45	18	1	GV155	BON018	59	56 23.85 N	157 21.19 W	CAT	CAT
25-May-08	11:04	19	1	GX155	BON019	125	56 16.83 N	157 07.28 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	11:04	19	1	GX155	BON019	125	56 16.83 N	157 07.28 W	CAT	CAT
25-May-08	12:20	20	1	GZ155	BON020	78	56 09.99 N	156 53.99 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	12:20	20	1	GZ155	BON020	78	56 09.99 N	156 53.99 W	CAT	CAT
25-May-08	14:59	21	1	HD155	BON021	209	55 56.03 N	156 27.42 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	14:59	21	1	HD155	BON021	209	55 56.03 N	156 27.42 W	CAT	CAT
25-May-08	18:48	22	1	HF155	BON022	227	55 49.18 N	156 14.34 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	18:48	22	1	HF155	BON022	227	55 49.18 N	156 14.34 W	CAT	CAT
25-May-08	19:59	23	1	HH155	BON023	212	55 42.34 N	156 00.80 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	19:59	23	1	HH155	BON023	212	55 42.34 N	156 00.80 W	CAT	CAT
25-May-08	21:33	24	1	HF157	BON024	93	55 56.68 N	156 01.84 W	60Bon	L-meas, L-Oto, QTowF, RCountL
25-May-08	21:33	24	1	HF157	BON024	93	55 56.68 N	156 01.84 W	CAT	CAT
25-May-08	22:44	25	1	HD157	BON025	212	56 03.47 N	156 15.11 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
25-May-08	22:44	25	1	HD157	BON025	212	56 03.47 N	156 15.11 W	CAT	CAT
26-May-08	0:02	26	1	HB157	BON026	232	56 10.29 N	156 28.10 W	60Bon	L-meas, L-Oto, QTowF, RCountJ, RCountL, THPCOD
26-May-08	0:02	26	1	HB157	BON026	232	56 10.29 N	156 28.10 W	CAT	CAT
26-May-08	1:21	27	1	GZ157	BON027	108	56 17.20 N	156 41.50 W	60Bon	L-meas, L-Oto, QTowF, RCountL
26-May-08	1:21	27	1	GZ157	BON027	108	56 17.20 N	156 41.50 W	CAT	CAT
26-May-08	2:37	28	1	GX157	BON028	125	56 24.01 N	156 55.00 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	2:37	28	1	GX157	BON028	125	56 24.01 N	156 55.00 W	CAT	CAT
26-May-08	5:34	29	1	GV158	BON029	137	56 40.12 N	157 13.00 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	5:34	29	1	GV158	BON029	137	56 40.12 N	157 13.00 W	CAT	CAT
26-May-08	6:42	30	1	GV159	BON030	98	56 38.07 N	156 55.74 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	6:42	30	1	GV159	BON030	98	56 38.07 N	156 55.74 W	CAT	CAT

Date (GMT)	Time (GMT)	FOCI Station	Alternate Haul	Grid	Depth Station	(m)	Latitude	Longitude	Gear	SamplesCollected
26-May-08	6:42	30	1	GV159	BON030	98	56 38.07 N	156 55.74 W	CAT	CAT
26-May-08	7:57	31	1	GX159	BON031	161	56 31.13 N	156 42.33 W	60Bon	L-meas, L-Oto, QTowF, RCountL
26-May-08	7:57	31	1	GX159	BON031	161	56 31.13 N	156 42.33 W	CAT	CAT
26-May-08	9:19	32	1	GZ159	BON032	213	56 24.28 N	156 29.14 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	9:19	32	1	GZ159	BON032	213	56 24.28 N	156 29.14 W	CAT	CAT
26-May-08	10:40	33	1	HB159	BON033	270	56 17.46 N	156 15.78 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	10:40	33	1	HB159	BON033	270	56 17.46 N	156 15.78 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	10:40	33	1	HB159	BON033	270	56 17.46 N	156 15.78 W	CAT	CAT
26-May-08	11:46	34	1	HD159	BON034	232	56 10.98 N	156 03.31 W	60Bon	L-meas, L-Oto, QTowF, RCountL
26-May-08	11:46	34	1	HD159	BON034	232	56 10.98 N	156 03.31 W	CAT	CAT
26-May-08	12:59	35	1	HF159	BON035	67	56 03.68 N	155 49.36 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	12:59	35	1	HF159	BON035	67	56 03.68 N	155 49.36 W	CAT	CAT
26-May-08	14:32	36	1	HD161	BON036	105	56 17.87 N	155 50.36 W	60Bon	L-meas, L-Oto, QTowF, RCountL
26-May-08	14:32	36	1	HD161	BON036	105	56 17.87 N	155 50.36 W	CAT	CAT
26-May-08	15:47	37	1	HB161	BON037	245	56 24.76 N	156 03.44 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	15:47	37	1	HB161	BON037	245	56 24.76 N	156 03.44 W	CAT	CAT
26-May-08	17:02	38	1	GZ161	BON038	232	56 31.64 N	156 16.63 W	60Bon	L-meas, L-Oto, QTowF, RCountL
26-May-08	17:02	38	1	GZ161	BON038	232	56 31.64 N	156 16.63 W	CAT	CAT
26-May-08	18:18	39	1	GX161	BON039	190	56 38.48 N	156 29.80 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	18:18	39	1	GX161	BON039	190	56 38.48 N	156 29.80 W	CAT	CAT
26-May-08	19:30	40	1	GV161	BON040	148	56 45.35 N	156 43.13 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	19:30	40	1	GV161	BON040	148	56 45.35 N	156 43.13 W	CAT	CAT
26-May-08	20:48	41	1	GV163	BON041	82	56 52.96 N	156 30.18 W	60Bon	L-meas, L-Oto, QTowF, RCountL
26-May-08	20:48	41	1	GV163	BON041	82	56 52.96 N	156 30.18 W	CAT	CAT
26-May-08	21:55	42	1	GX163	BON042	185	56 45.75 N	156 17.34 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	21:55	42	1	GX163	BON042	185	56 45.75 N	156 17.34 W	CAT	CAT
26-May-08	23:05	43	1	GZ163	BON043	292	56 38.99 N	156 04.27 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
26-May-08	23:05	43	1	GZ163	BON043	292	56 38.99 N	156 04.27 W	CAT	CAT
27-May-08	0:21	44	1	HB163	BON044	232	56 32.13 N	155 50.75 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	0:21	44	1	HB163	BON044	232	56 32.13 N	155 50.75 W	CAT	CAT
27-May-08	1:36	45	1	HD163	BON045	76	56 25.50 N	155 37.66 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	1:36	45	1	HD163	BON045	76	56 25.50 N	155 37.66 W	CAT	CAT
27-May-08	1:36	45	1	HD163	BON045	76	56 25.50 N	155 37.66 W	CAT	CAT
27-May-08	2:50	46	1	HD165	BON046	69	56 32.62 N	155 25.13 W	60Bon	L-meas, L-Oto, QTowF, RCountL, RCountL, THPCOD
27-May-08	2:50	46	1	HD165	BON046	69	56 32.62 N	155 25.13 W	CAT	CAT
27-May-08	4:18	47	1	HB165	BON047	235	56 39.34 N	155 38.49 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	4:18	47	1	HB165	BON047	235	56 39.34 N	155 38.49 W	CAT	CAT
27-May-08	5:33	48	1	GZ165	BON048	294	56 46.11 N	155 51.90 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	5:33	48	1	GZ165	BON048	294	56 46.11 N	155 51.90 W	CAT	CAT
27-May-08	7:24	49	1	GX165	BON049	208	56 53.07 N	156 04.80 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	7:24	49	1	GX165	BON049	208	56 53.07 N	156 04.80 W	CAT	CAT
27-May-08	8:42	50	1	GV165	BON050	76	57 00.19 N	156 17.81 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	8:42	50	1	GV165	BON050	76	57 00.19 N	156 17.81 W	CAT	CAT
27-May-08	9:57	51	1	GV167	BON051	85	57 07.36 N	156 05.24 W	60Bon	L-meas, L-Oto, QTowF, RCountL
27-May-08	9:57	51	1	GV167	BON051	85	57 07.36 N	156 05.24 W	CAT	CAT
27-May-08	11:07	52	1	GX167	BON052	303	57 00.36 N	155 52.15 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected
27-May-08	11:07	52	1	GX167	BON052	303	57 00.36 N	155 52.15 W	CAT	CAT
27-May-08	12:21	53	1	GZ167	BON053	281	56 53.44 N	155 39.16 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	12:21	53	1	GZ167	BON053	281	56 53.44 N	155 39.16 W	CAT	CAT
27-May-08	14:24	54	1	HB167	BON054	237	56 46.61 N	155 26.11 W	60Bon	L-meas, L-Oto, QTowF, RCountL
27-May-08	14:24	54	1	HB167	BON054	237	56 46.61 N	155 26.11 W	CAT	CAT
27-May-08	15:30	55	1	HD167	BON055	74	56 39.63 N	155 12.86 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	15:30	55	1	HD167	BON055	74	56 39.63 N	155 12.86 W	CAT	CAT
27-May-08	16:37	56	1	HD169	BON056	69	56 46.75 N	155 00.34 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	16:37	56	1	HD169	BON056	69	56 46.75 N	155 00.34 W	CAT	CAT
27-May-08	17:48	57	1	HB169	BON057	217	56 53.87 N	155 13.12 W	60Bon	L-meas, L-Oto, QTowF, RCountL
27-May-08	17:48	57	1	HB169	BON057	217	56 53.87 N	155 13.12 W	CAT	CAT
27-May-08	19:00	58	1	GZ169	BON058	265	57 00.36 N	155 26.39 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	19:00	58	1	GZ169	BON058	265	57 00.36 N	155 26.39 W	CAT	CAT
27-May-08	20:13	59	1	GX169	BON059	274	57 07.63 N	155 39.33 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	20:13	59	1	GX169	BON059	274	57 07.63 N	155 39.33 W	CAT	CAT
27-May-08	21:25	60	1	GV169	BON060	247	57 14.33 N	155 52.81 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
27-May-08	21:25	60	1	GV169	BON060	247	57 14.33 N	155 52.81 W	CAT	CAT
27-May-08	22:31	61	1	GT169	BON061	86	57 21.55 N	156 03.07 W	60Bon	L-meas, L-Oto, QTowF, RCountL
27-May-08	22:31	61	1	GT169	BON061	86	57 21.55 N	156 03.07 W	CAT	CAT
28-May-08	23:51	62	1	GT171	BON062	110	57 26.58 N	155 46.14 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	23:51	62	1	GT171	BON062	110	57 26.58 N	155 46.14 W	CAT	CAT
28-May-08	0:41	63	1	GV171	BON063	279	57 21.70 N	155 39.95 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	0:41	63	1	GV171	BON063	279	57 21.70 N	155 39.95 W	CAT	CAT
28-May-08	1:50	64	1	GX171	BON064	259	57 14.89 N	155 26.64 W	60Bon	L-meas, L-Oto, QTowF, RCountL
28-May-08	1:50	64	1	GX171	BON064	259	57 14.89 N	155 26.64 W	CAT	CAT
28-May-08	2:56	65	1	GZ171	BON065	241	57 08.18 N	155 13.88 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	2:56	65	1	GZ171	BON065	241	57 08.18 N	155 13.88 W	CAT	CAT
28-May-08	4:08	66	1	HB171	BON066	151	57 01.10 N	155 00.67 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	4:08	66	1	HB171	BON066	151	57 01.10 N	155 00.67 W	CAT	CAT
28-May-08	4:08	66	1	HB171	BON066	151	57 01.10 N	155 00.67 W	CAT	CAT
28-May-08	5:14	67	1	HD171	BON067	62	56 54.28 N	154 47.69 W	60Bon	L-Oto, QTowF, RCountL, THPCOD
28-May-08	5:14	67	1	HD171	BON067	62	56 54.28 N	154 47.69 W	CAT	CAT
28-May-08	6:47	68	1	HB173	BON068	78	57 08.29 N	154 48.08 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	6:47	68	1	HB173	BON068	78	57 08.29 N	154 48.08 W	CAT	CAT
28-May-08	8:04	69	1	GZ173	BON069	215	57 15.19 N	155 01.03 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	8:04	69	1	GZ173	BON069	215	57 15.19 N	155 01.03 W	CAT	CAT
28-May-08	8:04	69	1	GZ173	BON069	215	57 15.19 N	155 01.03 W	CAT	CAT
28-May-08	9:24	70	1	GX173	BON070	242	57 22.28 N	155 13.79 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	9:24	70	1	GX173	BON070	242	57 22.28 N	155 13.79 W	CAT	CAT
28-May-08	9:24	70	1	GX173	BON070	242	57 22.28 N	155 13.79 W	CAT	CAT
28-May-08	10:39	71	1	GV173	BON071	292	57 29.08 N	155 27.09 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	10:39	71	1	GV173	BON071	292	57 29.08 N	155 27.09 W	CAT	CAT
28-May-08	10:39	71	1	GV173	BON071	292	57 29.08 N	155 27.09 W	CAT	CAT
28-May-08	11:54	72	1	GT173	BON072	52	57 37.00 N	155 28.09 W	60Bon	L-meas, L-Oto, QTowF, RCountL
28-May-08	11:54	72	1	GT173	BON072	52	57 37.00 N	155 28.09 W	CAT	CAT
28-May-08	11:54	72	1	GT173	BON072	52	57 37.00 N	155 28.09 W	CAT	CAT
28-May-08	12:55	73	1	GV175	BON073	278	57 36.22 N	155 14.18 W	60Bon	L-meas, L-Oto, QTowF, RCountL
28-May-08	12:55	73	1	GV175	BON073	278	57 36.22 N	155 14.18 W	CAT	CAT
28-May-08	14:10	74	1	GX175	BON074	231	57 29.37 N	155 01.02 W	60Bon	L-meas, L-Oto, QTowF, RCountL

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected
28-May-08	14:10	74	1	GX175	BON074	231	57 29.37 N	155 01.02 W	CAT	CAT
28-May-08	15:24	75	1	GZ175	BON075	65	57 22.48 N	154 48.08 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
28-May-08	15:24	75	1	GZ175	BON075	65	57 22.48 N	154 48.08 W	CAT	CAT
28-May-08	16:42	76	1	FOX56	BON076	211	57 31.53 N	154 46.51 W	20Bon	QTowF
28-May-08	16:42	76	1	FOX56	BON076	211	57 31.53 N	154 46.51 W	60Bon	QTowF
28-May-08	16:42	76	1	FOX56	BON076	211	57 31.53 N	154 46.51 W	CAT	CAT
28-May-08	17:28	76	2	FOX56	CTD001	215	57 31.19 N	154 46.62 W	CTDB	CTD, Fluor, Nut, PAR
28-May-08	17:50	76	3	FOX56	CTD002	211	57 31.19 N	154 46.93 W	CTDB	Chlor, CTD, Fluor, MZ, Nut, PAR
28-May-08	18:40	77	1	FOX57	BON077	228	57 33.01 N	154 52.52 W	20Bon	QTowF
28-May-08	18:40	77	1	FOX57	BON077	228	57 33.01 N	154 52.52 W	60Bon	QTowF
28-May-08	18:40	77	1	FOX57	BON077	228	57 33.01 N	154 52.52 W	CAT	CAT
28-May-08	19:38	77	2	FOX57	CTD003	228	57 32.83 N	154 52.71 W	CTDB	CTD, Fluor, Nut, PAR
28-May-08	20:05	77	3	FOX57	CTD004	226	57 33.07 N	154 52.99 W	CTDB	Chlor, CTD, Fluor, MZ, Nut, PAR
28-May-08	21:06	78	1	FOX58	BON078	234	57 36.54 N	155 00.38 W	20Bon	QTowF
28-May-08	21:06	78	1	FOX58	BON078	234	57 36.54 N	155 00.38 W	60Bon	QTowF
28-May-08	21:06	78	1	FOX58	BON078	234	57 36.54 N	155 00.38 W	CAT	CAT
28-May-08	21:48	78	2	FOX58	CTD005	234	57 36.41 N	155 00.56 W	CTDB	CTD, Fluor, Nut, PAR
28-May-08	22:38	78	3	FOX58	CTD006	234	57 36.68 N	155 00.20 W	CTDB	Chlor, CTD, Fluor, MZ, Nut, PAR
28-May-08	23:32	79	1	FOX59	BON079	250	57 38.08 N	155 04.38 W	20Bon	QTowF
28-May-08	23:32	79	1	FOX59	BON079	250	57 38.08 N	155 04.38 W	60Bon	QTowF
28-May-08	23:32	79	1	FOX59	BON079	250	57 38.08 N	155 04.38 W	CAT	CAT
29-May-08	0:19	79	2	FOX59	CTD007	249	57 38.24 N	155 04.03 W	CTDB	CTD, Fluor, Nut, PAR
29-May-08	0:47	79	3	FOX59	CTD008	250	57 38.28 N	155 04.20 W	CTDB	Chlor, CTD, Fluor, MZ, Nut, PAR
29-May-08	1:49	80	1	FOX60	BON080	285	57 40.67 N	155 40.67 W	20Bon	QTowF
29-May-08	1:49	80	1	FOX60	BON080	285	57 40.67 N	155 40.67 W	60Bon	QTowF
29-May-08	1:49	80	1	FOX60	BON080	285	57 40.67 N	155 40.67 W	CAT	CAT
29-May-08	2:42	80	2	FOX60	CTD009	284	57 40.59 N	155 10.15 W	CTDB	CTD, Fluor, Nut, PAR
29-May-08	3:11	80	3	FOX60	CTD010	285	57 40.54 N	155 10.08 W	CTDB	Chlor, Fluor, MZ, Nut, PAR
29-May-08	4:53	81	1	FOX61	BON081	164	57 43.24 N	155 15.53 W	20Bon	QTowF
29-May-08	4:53	81	1	FOX61	BON081	164	57 43.24 N	155 15.53 W	60Bon	QTowF
29-May-08	4:53	81	1	FOX61	BON081	164	57 43.24 N	155 15.53 W	CAT	CAT
29-May-08	5:28	81	2	FOX061	CTD011	185	57 43.16 N	155 15.57 W	CTDB	CTD, Fluor, Nut, PAR
29-May-08	5:59	81	3	FOX061	CTD012	147	57 43.24 N	155 15.70 W	CTDB	Chlor, CTD, Fluor, MZ, Nut, PAR
29-May-08	20:40	82	1	HF147	BON082	95	55 20.19 N	157 02.90 W	60Bon	L-meas, L-Oto, QTowF, RCountL
29-May-08	20:40	82	1	HF147	BON082	95	55 20.19 N	157 02.90 W	CAT	CAT
29-May-08	21:53	83	1	HD147	BON083	88	55 27.21 N	157 16.33 W	60Bon	L-meas, L-Oto, QTowF, RCountL
29-May-08	21:53	83	1	HD147	BON083	88	55 27.21 N	157 16.33 W	CAT	CAT
29-May-08	23:07	84	1	HB147	BON084	98	55 34.06 N	157 29.72 W	60Bon	QTowF, RCountL
29-May-08	23:07	84	1	HB147	BON084	98	55 34.06 N	157 29.72 W	CAT	CAT
30-May-08	0:38	85	1	GZ147	BON085	136	55 41.01 N	154 43.10 W	60Bon	QTowF, RCountL
30-May-08	0:38	85	1	GZ147	BON085	136	55 41.01 N	154 43.10 W	CAT	CAT
30-May-08	1:52	86	1	GX147	BON086	118	55 47.66 N	157 56.70 W	60Bon	QTowF, RCountL
30-May-08	1:52	86	1	GX147	BON086	118	55 47.66 N	157 56.70 W	CAT	CAT
30-May-08	3:12	87	1	GV147	BON087	184	55 54.51 N	158 10.10 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
30-May-08	3:12	87	1	GV147	BON087	184	55 54.51 N	158 10.10 W	CAT	CAT
30-May-08	5:30	88	1	GV143	BON088	110	55 40.03 N	158 34.82 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
30-May-08	5:30	88	1	GV143	BON088	110	55 40.03 N	158 34.82 W	CAT	CAT
30-May-08	6:49	89	1	GX143	BON089	143	55 33.16 N	158 21.17 W	60Bon	L-meas, L-Oto, QTowF, RCountL
30-May-08	6:49	89	1	GX143	BON089	143	55 33.16 N	158 21.17 W	CAT	CAT
30-May-08	8:15	90	1	GZ143	BON090	125	55 26.43 N	158 07.33 W	60Bon	L-meas, L-Oto, QTowF, RCountL
30-May-08	8:15	90	1	GZ143	BON090	125	55 26.43 N	158 07.33 W	CAT	CAT
30-May-08	9:47	91	1	HB143	BON091	84	55 19.22 N	157 54.15 W	60Bon	L-meas, L-Oto, QTowF, RCountL, THPCOD
30-May-08	9:47	91	1	HB143	BON091	84	55 19.22 N	157 54.15 W	CAT	CAT
30-May-08	12:01	92	1	HB139	BON092	177	55 04.79 N	158 18.34 W	60Bon	L-meas, L-Oto, QTowF, RCountL
30-May-08	12:01	92	1	HB139	BON092	177	55 04.79 N	158 18.34 W	CAT	CAT
30-May-08	13:16	93	1	GZ139	BON093	199	55 11.72 N	158 31.69 W	60Bon	L-meas, L-Oto, QTowF, RCountL
30-May-08	13:16	93	1	GZ139	BON093	199	55 11.72 N	158 31.69 W	CAT	CAT
30-May-08	14:28	94	1	GX139	BON094	184	55 18.59 N	158 45.24 W	60Bon	QTowF, RCountL
30-May-08	14:28	94	1	GX139	BON094	184	55 18.59 N	158 45.24 W	CAT	CAT
30-May-08	15:41	95	1	GV139	BON095	160	55 25.50 N	158 59.00 W	60Bon	QTowF, RCountL
30-May-08	15:41	95	1	GV139	BON095	160	55 25.50 N	158 59.00 W	CAT	CAT

Figure 1. Station Map

