GLOBEC Northeast Pacific, Gulf of Alaska

Cruise Report, R/V *Ron Brown* (RB0103)

13 May – 23 May 2001

Chief Scientist:

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Cruise Goals

The cruise objectives were to:

(a) Detect movements of nutrient-rich slope water onto the Gulf of Alaska shelf and relate them to temporal and spatial variations in biological distributions and processes;
(b) Support the process studies taking place concurrently on R/V *Alpha Helix* for GLOBEC/GOA;
(c) To assess the role of Amatouli Trough in replenishing nutrients to the Gulf of Alaska shelf.

These objectives were met by occupying series of stations at which CTD, CalVET and Bongo net hauls were taken, by sampling for nutrient and chlorophyll concentrations, and by deploying satellite-tracked drifters. The underway flow through measurements included fluorescence and nitrate concentration.

Summaries of each of the GLOBEC projects may be found at the web site: http://globec.oce.orst/edu/groups/nep/projs.html.

Table 1. GLOBEC Cruise Participants

Jay Clark	AFSC
Nancy Kachel	PMEL
Carol Ladd	PMEL
Bern Megrey	AFSC
Calvin Mordy	PMEL
Susan Picquelle	AFSC
Sigrid Salo	PMEL
Margaret Sullivan	PMEL
Destry Wion	AFSC

Summary of Cruise

See Appendix 1 (Event Log) and Tables 2 and 3.

Daily Cruise Summary (Narrative)

May 13. The ship departed Seward, AK on 13 May at 1600 ADT and arrived at the first CTD/CalVET/Bongo station approximately 7 hrs. later. Conductivity-Temperature-Depth (CTD) casts (Table 4) were made with a Sea-Bird 911-Plus instrument with dual temperature and conductivity sensors, a Wet Labs fluorometer and a Photosynthetically Active Radiation (PAR) sensor. Water samples for nutrient and chlorophyll analyses were taken from bottles on each cast. At sites deeper than 500 m, the fluorometer and PAR sensors were removed. We removed the latter sensors permanently due to technical problems after station 41. Bongo net hauls (Tables 6-8) were made at most stations. CalVET net hauls (Table 5) were taken on the long lines of stations from the coast to the slope, but not on the Amatouli Trough grid.

A series of 4 lines of stations were occupied in support of the GLOBEC/GOA program (Fig. 1). Stations along the GLOBEC/GAK line will also be used for calibrating instruments moored at seven sites along that line. Sampling proceeded to stations 58-90 in order to investigate the role of Amatouli Trough as a pathway for nutrient replenishment of the adjacent shelf (Fig. 2). No CalVET samples were taken on this grid.

May 20. After station 77, operations were halted for 12 hrs due to strong winds and rough seas. This break came after the first 3 (easternmost) lines on the Amatouli grid had been completed. CTD casts 91 to 98 repeated stations along the central portion of the GAK line. These will be used in conjunction with the first set of stations on this cruise, and another set taken by the R/V *Alpha Helix* earlier in the month to access temporal variability of the ecosystem on a shorter timescale than previously sampled by the GLOBEC/GOA program.

A series of 13 satellite-tracked drifters (Table 9), drogued at 40 m, were deployed to measure the movement of currents in the area. First, two were released on the Gore Point line at sites of PMEL moorings, and then seven were deployed (usually near mooring sites) on the GAK line. One was deployed at the end of the Fairfield/FOCI line at FF10. This was to help detect the motion of a nearby eddy. One more was deployed at GAK7i (a mooring site) and the last at the northwestern edge of the Amatouli Trough grid.

May 23. The cruise ended at Kodiak Island on May 23, at approximately 0900 ADT. A summary of operations and samples collected follows:

Table 2. Summary of Operations

Operation	Tows
20cm bongo (20Bon)	82
60cm bongo (60Bon)	81
CalCOFI vertical egg tow net (CalVET)	57
Seabird SeaCAT CTD (CAT)	81
CTD without bottle samples (CTD)	1
CTD with bottle samples (CTDB)	97
Deployment of satellite buoy (SatBuoy)	13

Table 3. Samples Collected	Tows	Number
SeaBird SeaCat CTD (CAT)	81	
Extracted chlorophyll (Chlor)	86	469
SeaBird CTD (CTD)	98	
Deployment of buoy or mooring (Deploy)	13	13
Stimulated fluorescence collected during CTD casts (Fluor)	41	
Larval pollock collected for otolith analysis (L-Oto)	21	55
Nutrients for Calvin Mordy (NutsCM)	94	933
Any other sample type (must explain in haul comments) (Other)	56	56
Photosynthetically Active Radiation (PAR) data collected during CTD	41	
Quantitative tow preserved in formalin (QTowF)	218	218
Rough count of pollock juveniles (RCountJ)	3	1
Rough count of pollock larvae (RCountL)	67	54

Days Lost to Weather

0.5

Days Lost to Equipment Failure

None

Recommendations

None

Acknowledgments

The scientific party would like to acknowledge the hard work and support of the officers and crew of the NOAA Ship *Ron Brown*.

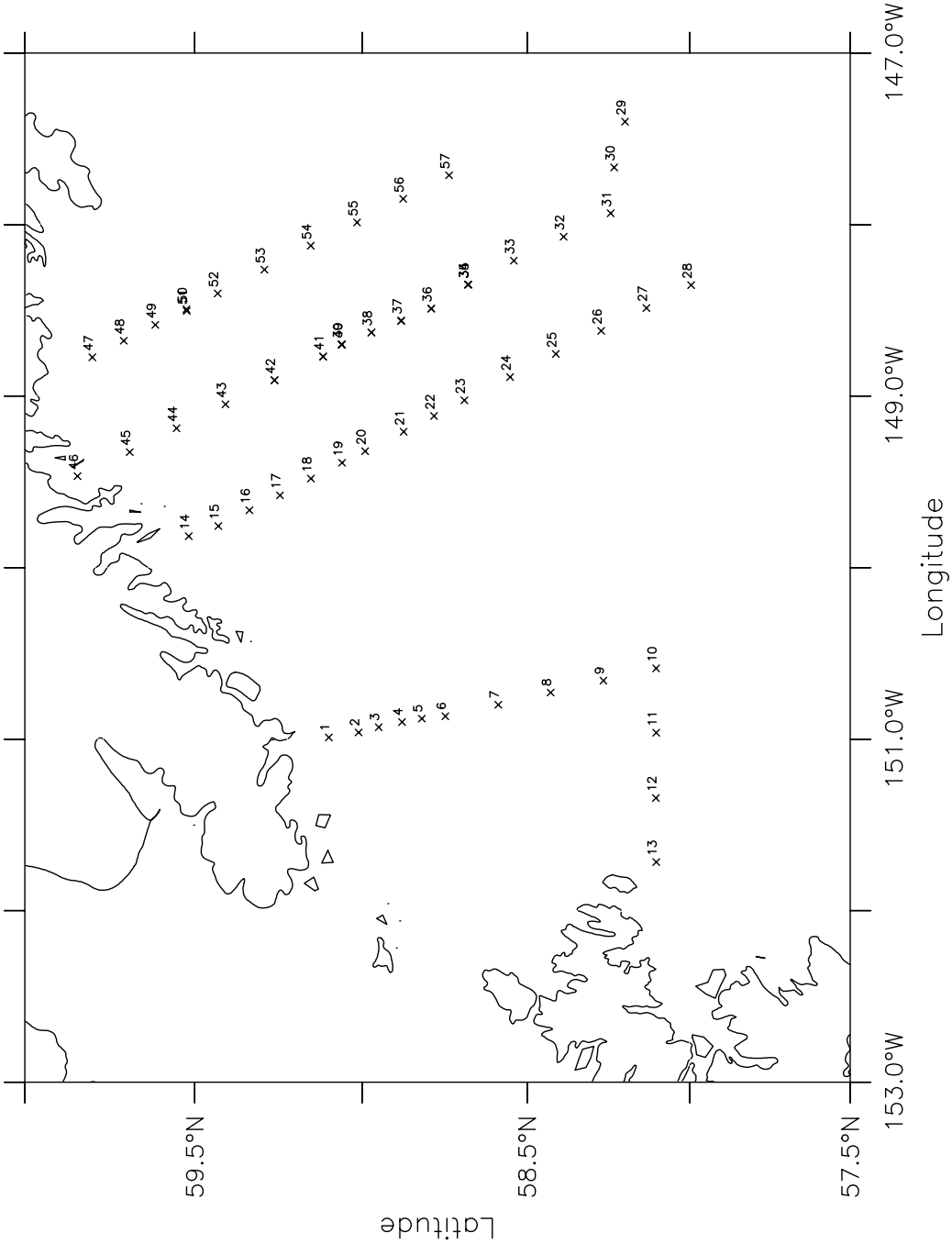

Fig. 1 - CTD Stations on FOCI/GLOBEC Lines

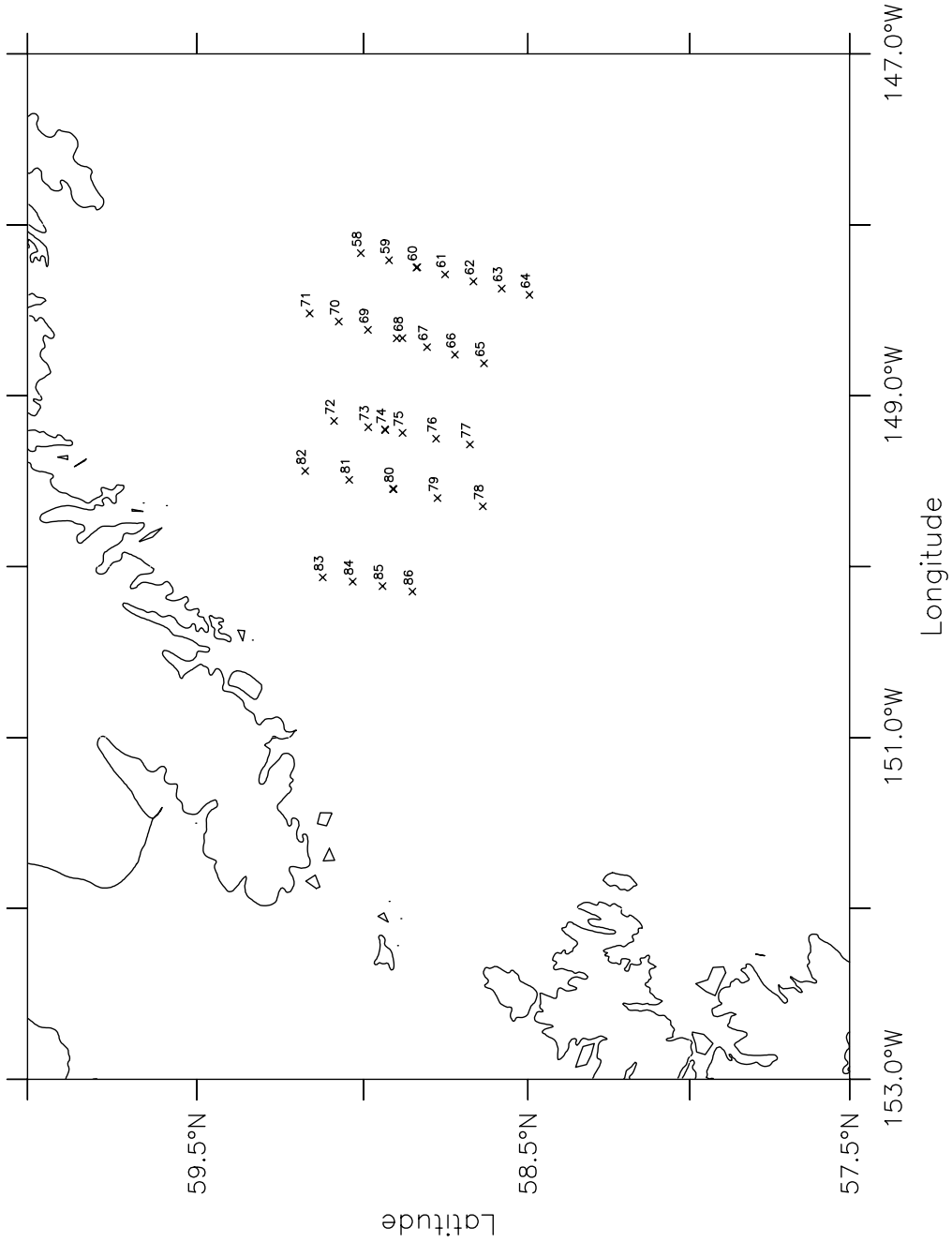

Fig. 2 - CTD Stations for Amatouli Trough

Table 4: CTD Casts - See Appendix I for column descriptions and Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.01	CTDB	1	1	GP1	14	5	0736	59.1000	-150.9897	172	1	CTD001	Chlor, CTD, Fluor, Nut
RB13401.06	CTDB	2	2	GP2	14	5	0935	59.0107	-150.9607	160	1	CTD002	Chlor, CTD, Fluor, Nut
RB13401.13	CTDB	3	3	GP3	14	5	1123	58.9502	-150.9300	144	1	CTD003	Chlor, CTD, Fluor, Nut
RB13401.18	CTDB	4	4	GP4	14	5	1323	58.8800	-150.8997	166	1	CTD004	Chlor, CTD, Fluor, Nut
RB13401.24	CTDB	5	5	GP5	14	5	1513	58.8200	-150.8802	192	1	CTD005	Chlor, CTD, Fluor, Nut
RB13401.29	CTDB	6	6	GP6	14	5	1654	58.7488	-150.8660	188	1	CTD006	Chlor, CTD, Fluor, Nut
RB13401.34	CTDB	7	7	GP7	14	5	1904	58.5883	-150.7988	184	1	CTD007	Chlor, CTD, Fluor, Nut
RB13401.39	CTDB	8	8	GP8	14	5	2109	58.4285	-150.7280	79	1	CTD008	Chlor, C; Chlorophyll taken from wrong Nisken bottles. None for 0 depth. Rest are OK. BAM
RB13401.44	CTDB	9	9	GP9	14	5	2308	58.2668	-150.6578	67	1	CTD009	Chlor, C; Chlorphyll taken from wrong Nisken bottles. Depths OK. BAM
RB13501.01	CTDB	10	10	GP10	15	5	0110	58.1047	-150.5870	153	1	CTD010	CTD, F; No chlorophyll. Samples taken from wrong Nisken bottles. BAM
RB13501.06	CTDB	11	11	GP11	15	5	0323	58.1038	-150.9618	153	1	CTD011	CTD, F
RB13501.07	CTDB	12	12	GP12	15	5	0508	58.1048	-151.3432	142	1	CTD012	CTD, F
RB13501.08	CTDB	13	13	GP13	15	5	0646	58.1040	-151.7163	160	1	CTD013	CTD, F
RB13501.09	CTDB	14	14	SR1	15	5	1559	59.5178	-149.8165	206	1	CTD014	Chlor, C
RB13501.14	CTDB	15	15	SR2	15	5	1753	59.4300	-149.7572	202	1	CTD015	Chlor, C; Spilled small amount of 30m chlorophyll
RB13501.19	CTDB	16	16	SR3	15	5	1933	59.3378	-149.6650	128	1	CTD016	Chlor, C
RB13501.24	CTDB	17	17	SR4	15	5	2056	59.2467	-149.5722	133	1	CTD017	Chlor, CTD, Fluor, Nut; Chlorophyll taken from wrong Niskin bottle. Depths are correct as listed - Bern M.
RB13501.29	CTDB	18	18	SR5	15	5	2234	59.1538	-149.4805	148	1	CTD018	Chlor, CTD, Fluor, Nut; Chlorophyll taken from the wrong Nisken bottles. Depths listed are correct - Bern
RB13601.01	CTDB	19	19	SR6	16	5	0015	59.0608	-149.3882	210	1	CTD019	CTD, Fluor, NutsCM, P; No Chlorophyll samples. Water taken from wrong Nisken bottles - Bern M.
RB13601.06	CTDB	20	20	SR7	16	5	0215	58.9680	-149.2983	232	1	CTD020	CTD, Fluor, NutsCM, P; No chlorophyll. Samples taken from wrong Niskin bottles - Bern M.
RB13601.11	CTDB	21	21	SR8	16	5	0409	58.8752	-149.2073	203	1	CTD021	CTD, Fluor, NutsCM, P; No chlorophyll. Samples taken from wrong Niskin bottles - Bern M.
RB13601.16	CTDB	22	22	SR9	16	5	0554	58.7830	-149.1153	218	1	CTD022	Chlor, CTD, Fluor, Nut
RB13601.21	CTDB	23	23	SR10	16	5	0750	58.6912	-149.0240	152	1	CTD023	Chlor, CTD, Fluor, Nut
RB13601.26	CTDB	24	24	SR11	16	5	0955	58.5520	-148.8883	116	1	CTD024	Chlor, CTD, Fluor, Nut
RB13601.31	CTDB	25	25	SR12	16	5	1153	58.4125	-148.7542	129	1	CTD025	Chlor, CTD, Fluor, Nut
RB13601.36	CTDB	26	26	SR13	16	5	1409	58.2735	-148.6188	329	1	CTD026	Chlor, CTD, NutsCM; Fluor and Par taken off CTD.
RB13601.41	CTDB	27	27	SR14	16	5	1706	58.1340	-148.4860	1201	1	CTD027	Chlor, CTD, NutsCM
RB13601.46	CTDB	28	28	SR15	16	5	1938	57.9960	-148.3525	1254	1	CTD028	Chlor, CTD, NutsCM
RB13701.01	CTDB	29	29	GAK14A	17	5	0049	58.2000	-147.3995	2771	1	CTD029	CTDto 1500m, NutsCM
RB13701.02	CTDB	30	30	FATE-1	17	5	0303	58.2333	-147.6665	2361	1	CTD030	Chlor, CTD, NutsCM
RB13701.03	CTDB	31	31	GAK12	17	5	0652	58.2442	-147.9335	2213	1	CTD031	Chlor, CTD to 1500m, NutsCM
RB13701.09	CTDB	32	32	GAK11	17	5	0954	58.3885	-148.0705	1435	1	CTD032	Chlor, CTD, Fluor, Nut
RB13701.14	CTDB	33	33	GAK10	17	5	1308	58.5408	-148.2103	1476	1	CTD033	Chlor, CTD, NutsCM
RB13701.20	CTD	34	34	GAK9	17	5	1550	58.6800	-148.3497	282	1	CTD034	CTD, Fluor, PAR; CTD CAST IS OK, BUT BOTTLES DID NOT TRIP
RB13701.25	CTDB	35	34	GAK9	17	5	1721	58.6802	-148.3500	283	4	CTD035	Chlor, CTD, Fluor, Nut; RE-DO OF HAUL 1
RB13701.26	CTDB	36	35	GAK8	17	5	1852	58.7920	-148.4893	294	1	CTD036	Chlor, CTD, Fluor, Nut
RB13701.31	CTDB	37	36	GAK7I	17	5	2032	58.8820	-148.5588	305	1	CTD037	Chlor, CTD, Fluor, Nut; bottles @ 0 and 15m did not fire. Only 2 bottles at 15m.

Table 4: CTD Casts (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13701.37	CTDB	38	37	GAK7	17	5	2228	58.9720	-148.6285	245	1	CTD038	CTD, Fluor, NutsCM, P;
RB13801.01	CTDB	39	38	GAK6I	18	5	0020	59.0622	-148.6997	182	1	CTD039	CTD, Fluor, PAR; bottles fired @ unknown depths
RB13801.07	CTDB	41	39	GAK6	18	5	0304	59.1175	-148.7695	154	1	CTD041	Chlor, CTD, Fluor, Nut
RB13801.13	CTDB	42	40	GAK5	18	5	0506	59.2630	-148.9075	172	1	CTD042	Chlor, CTD, NutsCM
RB13801.18	CTDB	43	41	GAK4	18	5	0723	59.4085	-149.0473	224	1	CTD043	Chlor, CTD, NutsCM; One of the 15m bottles did not trip
RB13801.24	CTDB	44	42	GAK3	18	5	0930	59.5540	-149.1870	217	1	CTD044	Chlor, CTD, NutsCM
RB13801.30	CTDB	45	43	GAK2	18	5	1141	59.6923	-149.3263	230	1	CTD045	Chlor, CTD, NutsCM
RB13801.36	CTDB	46	44	GAK1	18	5	1401	59.8458	-149.4660	274	1	CTD046	Chlor, CTD, NutsCM; 20M BOTTLE DID NOT TRIP
RB13801.41	CTDB	47	45	FF1	18	5	1735	59.8022	-148.7733	184	1	CTD047	Chlor, CTD, NutsCM
RB13801.46	CTDB	48	46	FF2	18	5	1910	59.7100	-148.6768	196	1	CTD048	Chlor, CTD, NutsCM; Bottle for 30m did not trip.
RB13801.51	CTDB	49	47	FF3	18	5	2056	59.6170	-148.5882	96	1	CTD049	Chlor, CTD, Fluor, NutsCM, PAR; CTD 50m bottle did not fire.
RB13801.56	CTDB	50	48	FF4	18	5	2226	59.5248	-148.4943	98	1	CTD050	CTD, Fluor, PAR; No chlorophylls taken. Bottles not set right. CTD cast repeated.
RB13801.61	CTDB	51	48	FF4	18	5	2305	59.5233	-148.5062	96	4	CTD051	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.01	CTDB	52	49	FF5	19	5	0012	59.4322	-148.4017	143	1	CTD052	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.06	CTDB	53	50	FF6	19	5	0200	59.2928	-148.2630	125	1	CTD053	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.11	CTDB	54	51	FF7	19	5	0352	59.1545	-148.1240	141	1	CTD054	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.16	CTDB	55	52	FF8	19	5	0545	59.0153	-147.9878	166	1	CTD055	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.21	CTDB	56	53	FF9	19	5	0804	58.8767	-147.8508	1167	1	CTD056	Chlor, CTD, NutsCM
RB13901.26	CTDB	57	54	FF10	19	5	1050	58.7378	-147.7132	2160	1	CTD057	Chlor, CTD to 1500m, NutsCM; 3OM BOTTLE DID NOT CLOSE
RB13901.32	CTDB	58	55	ATA1	19	5	1427	59.0082	-148.1662	152	1	CTD058	Chlor, CTD, NutsCM
RB13901.36	CTDB	59	56	ATA2	19	5	1600	58.9228	-148.2085	275	1	CTD059	Chlor, CTD, NutsCM
RB13901.40	CTDB	60	57	ATA3	19	5	1753	58.8398	-148.2508	277	1	CTD060	Chlor, CTD, NutsCM; The 10m Nisken bottle did not trip
RB13901.44	CTDB	61	58	ATA4	19	5	1930	58.7530	-148.2912	271	1	CTD061	Chlor, CTD, NutsCM; The 50m Niskin bottle did not trip.
RB13901.48	CTDB	62	59	ATA5	19	5	2112	58.6663	-148.3318	280	1	CTD062	Chlor, CTD, NutsCM
RB13901.52	CTDB	63	60	ATA6	19	5	2243	58.5802	-148.3733	522	1	CTD063	Chlor, CTD, NutsCM; DEPTH 0M FROM SHIP FLOW THRU
RB14001.01	CTDB	64	61	ATA7	20	5	0025	58.4943	-148.4105	801	1	CTD064	Chlor, CTD, NutsCM; 30M BOTTLE MISFIREFD, DEPTH 0M
RB14001.05	CTDB	65	62	ATB7	20	5	0340	58.6015	-148.8110	125	1	CTD065	Chlor, CTD, NutsCM; depth 0 from ships flow thru system
RB14001.09	CTDB	66	63	ATB6	20	5	0511	58.7225	-148.7600	240	1	CTD066	Chlor, CTD, NutsCM; depth 0 from ships flow thru
RB14001.13	CTDB	67	64	ATB5	20	5	0653	58.8117	-148.7128	267	1	CTD067	Chlor, CTD, NutsCM; bottles at 30 and 40 did not fire, depth 0 from ships flow thru
RB14001.17	CTDB	68	65	ATB4	20	5	0839	58.8990	-148.6640	273	1	CTD068	Chlor,CTD,NutsCM;filter not placed correctly 20m chlor.,water leaked. Depth 0m from flowthru
RB14001.22	CTDB	69	66	ATB3	20	5	1019	58.9873	-148.6145	243	1	CTD069	Chlor, CTD, NutsCM; depth 0m chlor from ship flow thru
RB14001.26	CTDB	70	67	ATB2	20	5	1154	59.0745	-148.5655	225	1	CTD070	Chlor, CTD, NutsCM; depth 0m chlor from ships flow thru
RB14001.30	CTDB	71	68	ATB1	20	5	1323	59.1623	-148.5187	156	1	CTD071	Chlor, CTD, NutsCM
RB14001.34	CTDB	72	69	ATC1	20	5	1620	59.0887	-149.1475	147	1	CTD072	Chlor, CTD, NutsCM
RB14001.38	CTDB	73	70	ATC2	20	5	1809	58.9857	-149.1845	226	1	CTD073	Chlor, CTD, NutsCM

Table 4: CTD Casts (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB14001.42	CTDB	74	71	ATC3	20	5	1936	58.9342	-149.2010	221	1	CTD074	Chlor, CTD, NutsCM
RB14001.46	CTDB	75	72	ATC4	20	5	2102	58.8822	-149.2173	206	1	CTD075	Chlor, CTD, NutsCM; DEPTH 0M BOTTLE MISFIRED
RB14001.50	CTDB	76	73	ATC5	20	5	2242	58.7805	-149.2517	182	1	CTD076	Chlor, CTD, NutsCM; DEPTH 0M CHLOR FROM SHIP FLOW THRU
RB14101.01	CTDB	77	74	ATC6	21	5	0015	58.6775	-149.2860	133	1	CTD077	Chlor, CTD, NutsCM
RB14101.02	CTDB	78	75	ATD5	21	5	1421	58.6372	-149.6458	135	1	CTD078	Chlor, CTD, NutsCM
RB14101.06	CTDB	79	76	ATD4	21	5	1625	58.7757	-149.5987	204	1	CTD079	Chlor, CTD, NutsCM
RB14101.10	CTDB	80	77	ATD3	21	5	1815	58.9107	-149.5450	243	1	CTD080	Chlor, CTD, NutsCM; 50M BOTTLE DID NOT TRIP, 0M CHLOR FROM FLOW THRU
RB14101.14	CTDB	81	78	ATD2	21	5	2000	59.0428	-149.4922	229	1	CTD081	Chlor, CTD, NutsCM; 30M BOTTLE MISFIRED
RB14101.19	CTDB	82	79	ATD1	21	5	2137	59.1758	-149.4405	137	1	CTD082	Chlor, CTD, NutsCM
RB14201.01	CTDB	83	80	ATE1	22	5	0019	59.1223	-150.0628	151	1	CTD083	Chlor, CTD, NutsCM
RB14201.05	CTDB	84	81	ATE2	22	5	0147	59.0158	-150.0878	205	1	CTD084	Chlor, CTD, NutsCM; 10M BOTTLE D, FROM SHIP FL
RB14201.09	CTDB	85	82	ATE3	22	5	0338	58.9423	-150.1142	211	1	CTD085	Chlor, CTD, NutsCM; 0M SAMPLE FROM SHIP FLOW THRU SYSTEM
RB14201.14	CTDB	86	83	ATE4	22	5	0535	58.8518	-150.1373	172	1	CTD086	Chlor, CTD, NutsCM
RB14201.18	CTDB	87	84	ATX2	22	5	0832	58.9090	-149.5475	252	1	CTD087	Chlor, CTD, NutsCM; DEPTH 0 FROM FLOW THRU
RB14201.19	CTDB	88	85	ATX3	22	5	1014	58.9353	-149.1977	219	1	CTD088	Chlor, CTD, NutsCM
RB14201.20	CTDB	89	86	ATX4	22	5	1225	58.8993	-148.6643	272	1	CTD089	Chlor, CTD, NutsCM; DEPTH 0M FROM FLOW THRU
RB14201.21	CTDB	90	87	ATX5	22	5	1422	58.8372	-148.2483	275	1	CTD090	Chlor, CTD, NutsCM; DEPTH 0M FROM FLOW THRU
RB14201.22	CTDB	91	88	GAK9	22	5	1515	58.6790	-148.3492	279	1	CTD091	Chlor, CTD, NutsCM; 0M SAMPLE TAKEN FROM SHIP FLOW THRU
RB14201.28	CTDB	92	89	GAK8	22	5	1808	58.7915	-148.4897	294	1	CTD092	Chlor, CTD, NutsCM; 0M FROM SHIP FLOW THRU SYSTEM
RB14201.33	CTDB	93	90	GAK7I	22	5	1948	58.9650	-148.5598	304	1	CTD093	Chlor, CTD, NutsCM; CAST 1 OF 2. MIXED LAYER BOTTLES (0-40M) NOT CLOSED PROPERLY. CAST REPEATED FOR MISSED BOTTLES
RB14201.35	CTDB	94	90	GAK7I	22	5	2035	58.8832	-148.5625	303	3	CTD094	Chlor, CTD, NutsCM; CAST 2 OF 2.
RB14201.37	CTDB	95	91	GAK7	22	5	2126	58.9722	-148.6292	246	1	CTD095	Chlor, CTD, NutsCM; DEEP MIXED LAYER BETWEEN 50 AND
RB14201.42	CTDB	96	92	GAK6I	22	5	2312	59.0618	-148.6985	184	1	CTD096	Chlor,CTD,NutsCM;0M SAMPLE FROM FLOWTHRU;SAMPLE VOL FOR 15M REPS 15M-1(283ML);15M-2(283ML);15M-3(285ML)
RB14301.01	CTDB	97	93	GAK6	23	5	0023	59.1170	-148.7695	184	1	CTD097	Chlor, CTD, NutsCM
RB14301.06	CTDB	98	94	GAK5	23	5	0222	59.2630	-148.9080	171	1	CTD098	Chlor, CTD, NutsCM; 30M BOTTLE(BOTTLE #9) DIDN?T FIRE

Table 5: CalVET Net Sampling - See Appendix I for column descriptions and Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.02	CalVET	1	1	GP1	14	5	0807	59.1000	-150.9897	173	2	CAL001	Other,QTowF; SpE-Record both flows. Combined codends. Flowcts & time not recorded. Used 99 for flow; 3 min for tow time.
RB13401.07	CalVET	2	2	GP2	14	5	0957	59.0107	-150.9605	160	2	CAL002	Discard; SpE- Combine codends in one jar. Codend came off, redid tow.
RB13401.08	CalVET	2	2	GP2	14	5	1004	59.0107	-150.9605	160	3	CAL002	Other, QTowF; SpE- Combine nets in one jar.
RB13401.14	CalVET	3	3	GP3	14	5	1155	58.9505	-150.9302	157	2	CAL003	Other, QTowF; SpE-Combine net one and two.
RB13401.19	CalVET	4	4	GP4	14	5	1341	58.8800	-150.9000	166	2	CAL004	Other, QTowF; SpE-Combine nets 1 and 2.
RB13401.25	CalVET	5	5	GP5	14	5	1535	58.8198	-150.8802	192	2	CAL005	Other, QTowF; NETS 1 AND TWO COMBINED IN ONE
RB13401.30	CalVET	6	6	GP6	14	5	1716	58.7488	-150.8660	188	2	CAL006	Other, QTowF; NETS 1 AND 2 COMBINED IN ONE JAR
RB13401.35	CalVET	7	7	GP7	14	5	1930	58.5883	-150.7988	183	2	CAL007	Other, QTowF; NETS 1AND 2 COMBINED IN ONE JAR
RB13401.40	CalVET	8	8	GP8	14	5	2130	58.4282	-150.7278	79	2	CAL008	Other; NETS 1 AND 2 COMBINED IN ONE JAR
RB13401.45	CalVET	9	9	GP9	14	5	2331	58.2682	-150.6732	66	2	CAL009	Other; NETS ONE AND TWO COMBINED IN ONE JAR
RB13501.02	CalVET	10	10	GP10	15	5	0140	58.1040	-150.5870	153	2	CAL010	Other; NETS 1 AND 2 COMBINED IN ONE JAR
RB13501.10	CalVET	11	14	SR1	15	5	1623	59.5177	-149.8165	206	2	CAL011	Other; COMBINED NETS 1 AND 2 IN ONE JAR
RB13501.15	CalVET	12	15	SR2	15	5	1813	59.4300	-149.7572	204	2	CAL012	Other; COMBINED NETS 1 AND 2 IN ONE JAR
RB13501.20	CalVET	13	16	SR3	15	5	1949	59.3378	-149.6650	141	2	CAL013	Other, QTowF; NETS 1 AND 2 COMBINED IN ONE J
RB13501.25	CalVET	14	17	SR4	15	5	2121	59.2467	-149.5722	133	2	CAL014	Other, QTowF; SpE-Combined nets 1 and 2 in same jar.
RB13501.30	CalVET	15	18	SR5	15	5	2258	59.1542	-149.4807	147	2	CAL015	Other, QTowF; SpE- Combined nets 1 and 2 in same jar.
RB13601.02	CalVET	16	19	SR6	16	5	0043	59.0613	-149.3888	208	2	CAL016	Other, QTowF
RB13601.07	CalVET	17	20	SR7	16	5	0244	58.9683	-149.2985	232	2	CAL017	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.12	CalVET	18	21	SR8	16	5	0435	58.8692	-149.2073	203	2	CAL018	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.17	CalVET	19	22	SR9	16	5	0620	58.7830	-149.1153	218	2	CAL019	Other, QTowF; SpE-Combine nets 1 and 2.
RB13601.22	CalVET	20	23	SR10	16	5	0809	58.6912	-149.0242	153	2	CAL020	Other, QTowF; SpE -Combine nets 1 and 2.
RB13601.27	CalVET	21	24	SR11	16	5	1012	58.5523	-148.8887	117	2	CAL021	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.32	CalVET	22	25	SR12	16	5	1209	58.4125	-148.8042	129	2	CAL022	Other, QTowF; SpE -Combine nets 1 and 2.
RB13601.37	CalVET	23	26	SR13	16	5	1432	58.2735	-148.6187	329	2	CAL023	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.42	CalVET	24	27	SR14	16	5	1739	58.1340	-148.4862	1200	2	CAL024	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.47	CalVET	25	28	SR15	16	5	2051	57.9960	-148.3523	1255	2	CAL025	Other, QTowF; Combined nets 1 and 2
RB13701.04	CalVET	26	31	GAK12	17	5	0732	58.2442	-147.9335	2162	2	CAL026	Other, QTowF; NETS 1 AND 2 COMBINED
RB13701.10	CalVET	27	32	GAK11	17	5	1037	58.3885	-148.0705	1435	2	CAL027	Other, QTowF; NETS 1 AND 2 COMBINED
RB13701.15	CalVET	28	33	GAK10	17	5	1351	58.5408	-148.2103	1475	2	CAL028	QTowF; NET 1 SAMPLE SPILLED ON DECK, USED NET 2
RB13701.21	CalVET	29	34	GAK9	17	5	1612	58.6800	-148.3497	283	2	CAL029	Other, QTowF; COMBINED NET ONE AND TWO
RB13701.27	CalVET	30	35	GAK8	17	5	1913	58.7918	-148.4893	294	2	CAL030	Other, QTowF; Combine Nets 1 and 2
RB13701.32	CalVET	31	36	GAK7I	17	5	2108	58.8827	-148.5620	304	2	CAL031	Other, QTowF; Combine nets 1 and 2
RB13701.38	CalVET	32	37	GAK7	17	5	2259	58.9728	-148.6288	245	2	CAL032	Other, QTowF; Combine nets 1 and 2
RB13801.02	CalVET	33	38	GAK6I	18	5	0055	59.0617	-148.7000	182	2	CAL033	Other, QTowF; Combine nets 1 and 2
RB13801.08	CalVET	34	39	GAK6	18	5	0329	59.1172	-148.7698	155	2	CAL034	Other, QTowF; Combine nets 1 and 2
RB13801.14	CalVET	35	40	GAK5	18	5	0529	59.2630	-148.9077	172	2	CAL035	Other, QTowF; Combine nets 1 and 2

Table 5: CalVET Net Sampling (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13801.19	CalVET	36	41	GAK4	18	5	0741	59.4087	-149.0473	204	2	CAL036	Other, QTowF; COMBINED NETS 1 AND 2
RB13801.25	CalVET	37	42	GAK3	18	5	0952	59.5538	-149.1868	219	2	CAL037	Other, QTowF; NETS 1 AND 2 COMBINED
RB13801.31	CalVET	38	43	GAK2	18	5	1200	59.6923	-149.3263	230	2	CAL038	Other, QTowF; COMBINED NETS 1 AND 2
RB13801.37	CalVET	39	44	GAK1	18	5	1421	59.8458	-149.4660	274	2	CAL039	Other, QTowF; COMBINED NETS 1 AND 2
RB13801.42	CalVET	40	45	FF1	18	5	1753	59.8022	-148.7732	184	2	CAL040	Other, QTowF; Combine nets 1 and 2
RB13801.47	CalVET	41	46	FF2	18	5	1944	59.7098	-148.6768	196	2	CAL041	Other, QTowF; Combine nets 1 and 2
RB13801.52	CalVET	42	47	FF3	18	5	2117	59.6170	-148.5883	95	2	CAL042	Other, QTowF; Combine nets 1 and 2
RB13801.57	CalVET	43	48	FF4	18	5	2246	59.5248	-148.4943	98	2	CAL043	Other, QTowF; Combine nets 1 and 2
RB13901.02	CalVET	44	49	FF5	19	5	0034	59.4322	-148.4017	143	2	CAL044	Other, QTowF; Combine nets 1 and 2
RB13901.07	CalVET	45	50	FF6	19	5	0219	59.2928	-148.2630	124	2	CAL045	Other, QTowF; Combine nets 1 and 2
RB13901.12	CalVET	46	51	FF7	19	5	0415	59.1545	-148.1240	141	2	CAL046	Other, QTowF; Combine nets 1 and 2
RB13901.17	CalVET	47	52	FF8	19	5	0611	59.0153	-147.9878	167	2	CAL047	Other, QTowF; Combine nets 1 and 2
RB13901.22	CalVET	48	53	FF9	19	5	0842	58.8765	-147.8508	1167	2	CAL048	Other, QTowF; COMBINED NETS 1 AND 2
RB13901.27	CalVET	49	54	FF10	19	5	1133	58.7377	-147.7128	2160	2	CAL049	Other, QTowF; COMBINED NETS 1 AND 2
RB14201.23	CalVET	50	88	GAK9	22	5	1627	58.6790	-148.3492	279	2	CAL050	Other, QTowF
RB14201.24	CalVET	50	88	GAK9	22	5	1627	58.6790	-148.3492	279	2	CAL050	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.29	CalVET	51	89	GAK8	22	5	1839	58.7915	-148.4897	292	2	CAL051	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.34	CalVET	52	90	GAK7I	22	5	2022	58.8828	-148.5615	303	2	CAL052	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.38	CalVET	54	91	GAK7	22	5	2159	58.9732	-148.6302	247	2	CAL054	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.43	CalVET	55	92	GAK6I	22	5	2339	59.0618	-148.6983	184	2	CAL055	Other, QTowF; COMBINE NETS 1 AND 2
RB14301.02	CalVET	56	93	GAK6	23	5	0051	59.1172	-148.7695	155	2	CAL056	Other, QTowF; COMBINE NETS 1 AND 2
RB14301.07	CalVET	57	94	GAK5	23	5	0250	59.2632	-148.9077	172	2	CAL057	Other, QTowF; COMBINE NETS 1 AND 2

Table 6: Seabird Seacat Profile Data - See Appendix I for column descriptions and Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.05	CAT	1	1	GP1	14	5	0824	59.1027	-150.9860	163	3	BON001	CAT
RB13401.11	CAT	2	2	GP2	14	5	1019	59.0133	-150.9558	174	4	BON002	CAT
RB13401.17	CAT	3	3	GP3	14	5	1213	58.9513	-150.9300	156	3	BON003	CAT
RB13401.22	CAT	4	4	GP4	14	5	1359	58.8872	-150.8900	166	3	BON004	CAT
RB13401.28	CAT	5	5	GP5	14	5	1550	58.8208	-150.8742	191	3	BON005	CAT
RB13401.33	CAT	6	6	GP6	14	5	1730	58.7502	-150.8598	187	3	BON006	CAT
RB13401.38	CAT	7	7	GP7	14	5	1938	58.5892	-150.7967	184	3	BON007	CAT
RB13401.43	CAT	8	8	GP8	14	5	2140	58.4305	-150.7290	80	3	BON008	CAT HIT BOTTOM
RB13401.48	CAT	9	9	GP9	14	5	2341	58.2707	-150.6813	66	3	BON009	CAT WIRE OUT NOT RECORDED, ESTIMATED AT 80. Jay Clark
RB13501.05	CAT	10	10	GP10	15	5	0149	58.1037	-150.5898	151	3	BON010	CAT
RB13501.13	CAT	11	14	SR1	15	5	1643	59.5170	-149.8140	204	3	BON011	CAT 20BON NET 1 TANGLED IN FRAME, USED NET 2
RB13501.18	CAT	12	15	SR2	15	5	1827	59.4312	-149.7500	200	3	BON012	CAT
RB13501.23	CAT	13	16	SR3	15	5	2000	59.3390	-149.6610	133	3	BON013	CAT
RB13501.28	CAT	14	17	SR4	15	5	2127	59.2470	-149.5705	133	3	BON014	CAT
RB13501.33	CAT	15	18	SR5	15	5	2303	59.1557	-149.4760	145	3	BON015	CAT
RB13601.05	CAT	16	19	SR6	16	5	0049	59.0620	-149.3888	210	3	BON016	CAT
RB13601.10	CAT	17	20	SR7	16	5	0250	58.9687	-149.2977	232	3	BON017	CAT
RB13601.15	CAT	18	21	SR8	16	5	0442	58.8753	-149.2067	203	3	BON018	CAT
RB13601.20	CAT	19	22	SR9	16	5	0628	58.7830	-149.1133	221	3	BON019	CAT
RB13601.25	CAT	20	23	SR10	16	5	0822	58.6933	-149.0135	153	3	BON020	CAT
RB13601.30	CAT	21	24	SR11	16	5	1024	58.5535	-148.8817	117	3	BON021	CAT
RB13601.35	CAT	22	25	SR12	16	5	1223	58.4148	-148.7510	129	3	BON022	CAT
RB13601.40	CAT	23	26	SR13	16	5	1451	58.2752	-148.6162	324	3	BON023	CAT
RB13601.45	CAT	24	27	SR14	16	5	1758	58.1365	-148.4783	1212	3	BON024	CAT
RB13601.50	CAT	25	28	SR15	16	5	2056	57.9963	-148.3515	1256	3	BON025	CAT
RB13701.07	CAT	26	31	GAK12	17	5	0748	58.2463	-147.9253	2204	3	BON026	CAT
RB13701.13	CAT	27	32	GAK11	17	5	1055	58.3897	-148.0598	1444	3	BON027	CAT
RB13701.18	CAT	28	33	GAK10	17	5	1407	58.5437	-148.2107	1467	3	BON028	CAT
RB13701.24	CAT	29	34	GAK9	17	5	1632	58.6798	-148.3402	286	3	BON029	CAT
RB13701.30	CAT	30	35	GAK8	17	5	1919	58.7920	-148.4873	294	3	BON030	CAT
RB13701.35	CAT	31	36	GAK7I	17	5	2113	58.8828	-148.5613	303	3	BON031	CAT
RB13701.41	CAT	32	37	GAK7	17	5	2305	58.9730	-148.6270	245	3	BON032	CAT
RB13801.05	CAT	33	38	GAK6I	18	5	0101	59.0615	-148.6983	182	3	BON033	CAT
RB13801.11	CAT	34	39	GAK6	18	5	0335	59.1170	-148.7687	155	3	BON034	CAT
RB13801.17	CAT	35	40	GAK5	18	5	0545	59.2612	-148.8952	168	3	BON035	CAT
RB13801.22	CAT	36	41	GAK4	18	5	0754	59.4100	-149.0385	203	3	BON36	CAT
RB13801.28	CAT	37	42	GAK3	18	5	1006	59.5547	-149.1775	214	3	BON037	CAT Net 1 of 20cm bongo wrapped up, used net
RB13801.34	CAT	38	43	GAK2	18	5	1214	59.6948	-149.3237	229	3	BON038	CAT
RB13801.40	CAT	39	44	GAK1	18	5	1439	59.8407	-149.4612	290	3	BON039	CAT HIT BOTTOM, SOME SILT IN SAMPLE
RB13801.45	CAT	40	45	FF1	18	5	1800	59.8008	-148.7737	185	3	BON040	CAT
RB13801.50	CAT	41	46	FF2	18	5	1951	59.7097	-148.6738	196	3	BON041	CAT
RB13801.55	CAT	42	47	FF3	18	5	2126	59.6172	-148.5918	95	3	BON042	CAT
RB13801.60	CAT	43	48	FF4	18	5	2252	59.5247	-149.4958	98	3	BON043	CAT
RB13901.05	CAT	44	49	FF5	19	5	0039	59.4322	-148.4017	143	3	BON044	CAT
RB13901.10	CAT	45	50	FF6	19	5	0227	59.2927	-148.2647	124	3	BON045	CAT
RB13901.15	CAT	46	51	FF7	19	5	0420	59.1540	-148.1255	140	3	BON046	CAT

Table 6: Seabird Seacat Profile Data (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13901.20	CAT	47	52	FF8	19	5	0617	59.0143	-147.9902	171	3	BON047	CAT
RB13901.25	CAT	48	53	FF9	19	5	0858	58.8728	-147.8583	1158	3	BON048	CAT
RB13901.30	CAT	49	54	FF10	19	5	1151	58.7340	-147.7212	2138	3	BON049	CAT
RB13901.35	CAT	50	55	ATA1	19	5	1453	59.0048	-148.1763	157	2	BON050	CAT
RB13901.39	CAT	51	56	ATA2	19	5	1635	58.9190	-148.2255	279	2	BON051	CAT
RB13901.43	CAT	52	57	ATA3	19	5	1829	58.8360	-148.2450	277	2	BON052	CAT
RB13901.47	CAT	53	58	ATA4	19	5	2004	58.7523	-148.2925	271	2	BON053	CAT
RB13901.51	CAT	54	59	ATA5	19	5	2146	58.6652	-148.3330	279	2	BON054	CAT Surface chlorophyll came from ships flowthrough system.
RB13901.55	CAT	55	60	ATA6	19	5	2321	58.5782	-148.3762	526	2	BON055	CAT
RB14001.04	CAT	56	61	ATA7	20	5	0116	58.4932	-148.4085	800	2	BON056	CAT SEACAT FILE FOR THIS ACCIDENTLY OVERWRITTEN WITH NEXT BONGO FILE (BON057)
RB14001.08	CAT	57	62	ATB7	20	5	0408	58.6293	-148.8075	125	2	BON057	CAT
RB14001.12	CAT	58	63	ATB6	20	5	0542	58.7188	-148.7528	240	2	BON058	CAT
RB14001.16	CAT	59	64	ATB5	20	5	0724	58.8113	-148.7077	266	2	BON059	CAT
RB14001.20	CAT	60	65	ATB4	20	5	0910	58.9007	-148.6573	273	2	BON060	CAT
RB14001.25	CAT	61	66	ATB3	20	5	1046	58.9895	-148.6072	243	2	BON061	CAT
RB14001.29	CAT	62	67	ATB2	20	5	1219	59.0767	-148.5578	220	2	BON062	CAT
RB14001.33	CAT	63	68	ATB1	20	5	1345	59.1628	-148.5117	153	2	BON063	CAT
RB14001.37	CAT	64	69	ATC1	20	5	1650	59.0920	-149.1337	150	2	BON064	CAT
RB14001.41	CAT	65	70	ATC2	20	5	1835	58.9863	-149.1757	227	2	BON065	CAT
RB14001.45	CAT	66	71	ATC3	20	5	2004	58.9370	-149.1960	221	2	BON066	CAT
RB14001.49	CAT	67	72	ATC4	20	5	2127	58.8842	-149.2145	206	2	BON067	CAT FLOWMETERS SPINNING IN WIND
RB14101.05	CAT	68	75	ATD5	21	5	1445	58.6392	-149.6367	135	2	BON068	CAT
RB14101.09	CAT	69	76	ATD4	21	5	1650	58.7790	-149.5923	205	2	BON069	CAT
RB14101.13	CAT	70	77	ATD3	21	5	1839	58.9123	-149.5398	243	2	BON070	CAT
RB14101.18	CAT	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	CAT
RB14101.22	CAT	72	79	ATD1	21	5	2158	59.1770	-149.4387	137	2	BON072	CAT
RB14201.04	CAT	73	80	ATE1	22	5	0045	59.1227	-150.0610	151	2	BON073	CAT
RB14201.08	CAT	74	81	ATE2	22	5	0213	59.0322	-150.0862	204	2	BON074	CAT
RB14201.13	CAT	76	82	ATE3	22	5	0419	58.9425	-150.0988	216	3	BON076	CAT
RB14201.17	CAT	77	83	ATE4	22	5	0559	58.8515	-150.1345	172	2	BON077	CAT
RB14201.27	CAT	78	88	GAK9	22	5	1634	58.6802	-148.3473	280	3	BON078	CAT
RB14201.32	CAT	79	89	GAK8	22	5	1846	58.7928	-148.4885	294	3	BON079	CAT
RB14201.41	CAT	80	91	GAK7	22	5	2205	58.9745	-148.6283	247	3	BON080	CAT
RB14301.05	CAT	81	93	GAK6	23	5	0056	59.1177	-148.7692	155	3	BON081	CAT
RB14301.10	CAT	82	94	GAK5	23	5	0258	59.2635	-148.9072	171	3	BON082	CAT

Table 7: 20 cm Bongo Tows - See Appendix I for column descriptions and Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.03	20Bon	1	1	GP1	14	5	0824	59.1027	-150.9860	163	3	BON001	QtowF
RB13401.09	20Bon	2	2	GP2	14	5	1019	59.0133	-150.9558	174	4	BON002	QtowF
RB13401.15	20Bon	3	3	GP3	14	5	1213	58.9513	-150.9300	156	3	BON003	QtowF
RB13401.20	20Bon	4	4	GP4	14	5	1359	58.8872	-150.8900	166	3	BON004	QtowF
RB13401.26	20Bon	5	5	GP5	14	5	1550	58.8208	-150.8742	191	3	BON005	QtowF
RB13401.31	20Bon	6	6	GP6	14	5	1730	58.7502	-150.8598	187	3	BON006	QtowF
RB13401.36	20Bon	7	7	GP7	14	5	1938	58.5892	-150.7967	184	3	BON007	QtowF
RB13401.41	20Bon	8	8	GP8	14	5	2140	58.4305	-150.7290	80	3	BON008	QTowF; HIT BOTTOM
RB13401.46	20Bon	9	9	GP9	14	5	2341	58.2707	-150.6813	66	3	BON009	QTowF; WIRE OUT NOT RECORDED, ESTIMATED AT 80. Jay Clark
RB13501.03	20Bon	10	10	GP10	15	5	0149	58.1037	-150.5898	151	3	BON010	QtowF
RB13501.11	20Bon	11	14	SR1	15	5	1643	59.5170	-149.8140	204	3	BON011	QTowF; 20BON NET 1 TANGLED IN FRAME, USED NET 2
RB13501.16	20Bon	12	15	SR2	15	5	1827	59.4312	-149.7500	200	3	BON012	QtowF
RB13501.21	20Bon	13	16	SR3	15	5	2000	59.3390	-149.6610	133	3	BON013	QtowF
RB13501.26	20Bon	14	17	SR4	15	5	2127	59.2470	-149.5705	133	3	BON014	QtowF
RB13501.31	20Bon	15	18	SR5	15	5	2303	59.1557	-149.4760	145	3	BON015	QtowF; Flowmeters spinning in air - very fast.
RB13601.03	20Bon	16	19	SR6	16	5	0049	59.0620	-149.3888	210	3	BON016	QTowF; Flowmeters spinning fast in wind.
RB13601.08	20Bon	17	20	SR7	16	5	0250	58.9687	-149.2977	232	3	BON017	QtowF
RB13601.13	20Bon	18	21	SR8	16	5	0442	58.8753	-149.2067	203	3	BON018	QtowF
RB13601.18	20Bon	19	22	SR9	16	5	0628	58.7830	-149.1133	221	3	BON019	QtowF
RB13601.23	20Bon	20	23	SR10	16	5	0822	58.6933	-149.0135	153	3	BON020	QtowF
RB13601.28	20Bon	21	24	SR11	16	5	1024	58.5535	-148.8817	117	3	BON021	QtowF
RB13601.33	20Bon	22	25	SR12	16	5	1223	58.4148	-148.7510	129	3	BON022	QtowF
RB13601.38	20Bon	23	26	SR13	16	5	1451	58.2752	-148.6162	324	3	BON023	QtowF
RB13601.43	20Bon	24	27	SR14	16	5	1758	58.1365	-148.4783	1212	3	BON024	QtowF
RB13601.48	20Bon	25	28	SR15	16	5	2056	57.9963	-148.3515	1256	3	BON025	QtowF
RB13701.05	20Bon	26	31	GAK12	17	5	0748	58.2463	-147.9253	2204	3	BON026	QtowF
RB13701.11	20Bon	27	32	GAK11	17	5	1055	58.3897	-148.0598	1444	3	BON027	Other, QtowF
RB13701.16	20Bon	28	33	GAK10	17	5	1407	58.5437	-148.2107	1467	3	BON028	QtowF
RB13701.22	20Bon	29	34	GAK9	17	5	1632	58.6798	-148.3402	286	3	BON029	QtowF
RB13701.28	20Bon	30	35	GAK8	17	5	1919	58.7920	-148.4873	294	3	BON030	QtowF
RB13701.33	20Bon	31	36	GAK7I	17	5	2113	58.8828	-148.5613	303	3	BON031	QtowF
RB13701.39	20Bon	32	37	GAK7	17	5	2305	58.9730	-148.6270	245	3	BON032	QtowF
RB13801.03	20Bon	33	38	GAK6I	18	5	0101	59.0615	-148.6983	182	3	BON033	QtowF
RB13801.09	20Bon	34	39	GAK6	18	5	0335	59.1170	-148.7687	155	3	BON034	QtowF
RB13801.15	20Bon	35	40	GAK5	18	5	0545	59.2612	-148.8952	168	3	BON035	QtowF
RB13801.20	20Bon	36	41	GAK4	18	5	0754	59.4100	-149.0385	203	3	BON36	QtowF
RB13801.26	20Bon	37	42	GAK3	18	5	1006	59.5547	-149.1775	214	3	BON037	QTowF; Net 1 of 20cm bongo wrapped up, used net
RB13801.32	20Bon	38	43	GAK2	18	5	1214	59.6948	-149.3237	229	3	BON038	QtowF
RB13801.38	20Bon	39	44	GAK1	18	5	1439	59.8407	-149.4612	290	3	BON039	QTowF; HIT BOTTOM, SOME SILT IN SAMPLE
RB13801.43	20Bon	40	45	FF1	18	5	1800	59.8008	-148.7737	185	3	BON040	QtowF
RB13801.48	20Bon	41	46	FF2	18	5	1951	59.7097	-148.6738	196	3	BON041	QtowF
RB13801.53	20Bon	42	47	FF3	18	5	2126	59.6172	-148.5918	95	3	BON042	QtowF
RB13801.58	20Bon	43	48	FF4	18	5	2252	59.5247	-149.4958	98	3	BON043	QtowF
RB13901.03	20Bon	44	49	FF5	19	5	0039	59.4322	-148.4017	143	3	BON044	QtowF

Table 7: 20 cm Bongo Tows (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13901.08	20Bon	45	50	FF6	19	5	0227	59.2927	-148.2647	124	3	BON045	QtowF
RB13901.13	20Bon	46	51	FF7	19	5	0420	59.1540	-148.1255	140	3	BON046	QtowF
RB13901.18	20Bon	47	52	FF8	19	5	0617	59.0143	-147.9902	171	3	BON047	QTowF; Flowmeters on 60BON spinning in the wind.
RB13901.23	20Bon	48	53	FF9	19	5	0858	58.8728	-147.8583	1158	3	BON048	QtowF
RB13901.28	20Bon	49	54	FF10	19	5	1151	58.7340	-147.7212	2138	3	BON049	QtowF
RB13901.33	20Bon	50	55	ATA1	19	5	1453	59.0048	-148.1763	157	2	BON050	QtowF
RB13901.37	20Bon	51	56	ATA2	19	5	1635	58.9190	-148.2255	279	2	BON051	QtowF
RB13901.41	20Bon	52	57	ATA3	19	5	1829	58.8360	-148.2450	277	2	BON052	QtowF
RB13901.45	20Bon	53	58	ATA4	19	5	2004	58.7523	-148.2925	271	2	BON053	QtowF
RB13901.49	20Bon	54	59	ATA5	19	5	2146	58.6652	-148.3330	279	2	BON054	QTowF; Surface chlorophyll came from ships flowthrough system.
RB13901.53	20Bon	55	60	ATA6	19	5	2321	58.5782	-148.3762	526	2	BON055	QtowF
RB14001.02	20Bon	56	61	ATA7	20	5	0116	58.4932	-148.4085	800	2	BON056	QTowF; SEACAT FILE FOR THIS ACCIDENTLY OVERWRITTEN WITH NEXT BONGO FILE (BON057)
RB14001.06	20Bon	57	62	ATB7	20	5	0408	58.6293	-148.8075	125	2	BON057	QtowF
RB14001.10	20Bon	58	63	ATB6	20	5	0542	58.7188	-148.7528	240	2	BON058	QtowF
RB14001.14	20Bon	59	64	ATB5	20	5	0724	58.8113	-148.7077	266	2	BON059	QtowF
RB14001.18	20Bon	60	65	ATB4	20	5	0910	58.9007	-148.6573	273	2	BON060	QtowF
RB14001.23	20Bon	61	66	ATB3	20	5	1046	58.9895	-148.6072	243	2	BON061	QtowF
RB14001.27	20Bon	62	67	ATB2	20	5	1219	59.0767	-148.5578	220	2	BON062	QtowF
RB14001.31	20Bon	63	68	ATB1	20	5	1345	59.1628	-148.5117	153	2	BON063	QtowF
RB14001.35	20Bon	64	69	ATC1	20	5	1650	59.0920	-149.1337	150	2	BON064	QtowF
RB14001.39	20Bon	65	70	ATC2	20	5	1835	58.9863	-149.1757	227	2	BON065	QtowF
RB14001.43	20Bon	66	71	ATC3	20	5	2004	58.9370	-149.1960	221	2	BON066	QtowF
RB14001.47	20Bon	67	72	ATC4	20	5	2127	58.8842	-149.2145	206	2	BON067	QTowF; FLOWMETERS SPINNING IN WIND
RB14101.03	20Bon	68	75	ATD5	21	5	1445	58.6392	-149.6367	135	2	BON068	QtowF
RB14101.07	20Bon	69	76	ATD4	21	5	1650	58.7790	-149.5923	205	2	BON069	QtowF
RB14101.11	20Bon	70	77	ATD3	21	5	1839	58.9123	-149.5398	243	2	BON070	QtowF
RB14101.15	20Bon	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	QTowF; 20BON NET 1 NOT USABLE. NET 2 IS PRIMARY NET
RB14101.16	20Bon	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	QTowF; 20BON NET 1 NOT USABLE. NET 2 IS PRIMARY NET
RB14101.20	20Bon	72	79	ATD1	21	5	2158	59.1770	-149.4387	137	2	BON072	QtowF
RB14201.02	20Bon	73	80	ATE1	22	5	0045	59.1227	-150.0610	151	2	BON073	QtowF
RB14201.06	20Bon	74	81	ATE2	22	5	0213	59.0322	-150.0862	204	2	BON074	QtowF
RB14201.10	20Bon	75	82	ATE3	22	5	0403	58.9423	-150.1122	211	2	BON075	Discard;FAILED TOW ALL NETS.WIRE ANGLE VERTICAL.TERMINATED AND REPEATED. FLOW & TIME DUMMIED FROM REPEAT TOW (82-3).
RB14201.11	20Bon	76	82	ATE3	22	5	0419	58.9425	-150.0988	216	3	BON076	QtowF
RB14201.15	20Bon	77	83	ATE4	22	5	0559	58.8515	-150.1345	172	2	BON077	QtowF
RB14201.25	20Bon	78	88	GAK9	22	5	1634	58.6802	-148.3473	280	3	BON078	QtowF
RB14201.30	20Bon	79	89	GAK8	22	5	1846	58.7928	-148.4885	294	3	BON079	QtowF
RB14201.39	20Bon	80	91	GAK7	22	5	2205	58.9745	-148.6283	247	3	BON080	QtowF
RB14301.03	20Bon	81	93	GAK6	23	5	0056	59.1177	-148.7692	155	3	BON081	QtowF
RB14301.08	20Bon	82	94	GAK5	23	5	0258	59.2635	-148.9072	171	3	BON082	QtowF

Table 8: 60 cm Bongo Tows - See Appendix I for column descriptions and Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.04	60Bon	1	1	GP1	14	5	0824	59.1027	-150.9860	163	3	BON001	L-Oto, QTowF, Rcoun
RB13401.10	60Bon	2	2	GP2	14	5	1019	59.0133	-150.9558	174	4	BON002	L-Oto, QTowF, Rcoun
RB13401.16	60Bon	3	3	GP3	14	5	1213	58.9513	-150.9300	156	3	BON003	L-Oto, QTowF, Rcoun
RB13401.21	60Bon	4	4	GP4	14	5	1359	58.8872	-150.8900	166	3	BON004	L-Oto, QTowF, Rcoun
RB13401.27	60Bon	5	5	GP5	14	5	1550	58.8208	-150.8742	191	3	BON005	L-Oto, QTowF, Rcoun
RB13401.32	60Bon	6	6	GP6	14	5	1730	58.7502	-150.8598	187	3	BON006	L-Oto, QTowF, Rcoun
RB13401.37	60Bon	7	7	GP7	14	5	1938	58.5892	-150.7967	184	3	BON007	L-Oto
RB13401.42	60Bon	8	8	GP8	14	5	2140	58.4305	-150.7290	80	3	BON008	L-Oto; HIT BOTTOM
RB13401.47	60Bon	9	9	GP9	14	5	2341	58.2707	-150.6813	66	3	BON009	QTowF; WIRE OUT NOT RECORDED, ESTIMATED AT 80. Jay Clark
RB13501.04	60Bon	10	10	GP10	15	5	0149	58.1037	-150.5898	151	3	BON010	L-Oto
RB13501.12	60Bon	11	14	SR1	15	5	1643	59.5170	-149.8140	204	3	BON011	L-Oto; 20BON NET 1 TANGLED IN FRAME, USED NET 2
RB13501.17	60Bon	12	15	SR2	15	5	1827	59.4312	-149.7500	200	3	BON012	L-Oto
RB13501.22	60Bon	13	16	SR3	15	5	2000	59.3390	-149.6610	133	3	BON013	L-Oto, QTowF, Rcoun
RB13501.27	60Bon	14	17	SR4	15	5	2127	59.2470	-149.5705	133	3	BON014	QTowF;
RB13501.32	60Bon	15	18	SR5	15	5	2303	59.1557	-149.4760	145	3	BON015	L-Oto, QTowF, RCoun; Flowmeters spinning in air - very fast.
RB13601.04	60Bon	16	19	SR6	16	5	0049	59.0620	-149.3888	210	3	BON016	QTowF; Flowmeters spinning fast in wind.
RB13601.09	60Bon	17	20	SR7	16	5	0250	58.9687	-149.2977	232	3	BON017	L-Oto, QTowF, Rcoun
RB13601.14	60Bon	18	21	SR8	16	5	0442	58.8753	-149.2067	203	3	BON018	L-Oto, QTowF, Rcoun
RB13601.19	60Bon	19	22	SR9	16	5	0628	58.7830	-149.1133	221	3	BON019	QTowF;
RB13601.24	60Bon	20	23	SR10	16	5	0822	58.6933	-149.0135	153	3	BON020	QTowF;
RB13601.29	60Bon	21	24	SR11	16	5	1024	58.5535	-148.8817	117	3	BON021	QTowF;
RB13601.34	60Bon	22	25	SR12	16	5	1223	58.4148	-148.7510	129	3	BON022	QTowF;
RB13601.39	60Bon	23	26	SR13	16	5	1451	58.2752	-148.6162	324	3	BON023	QTowF;
RB13601.44	60Bon	24	27	SR14	16	5	1758	58.1365	-148.4783	1212	3	BON024	QTowF;
RB13601.49	60Bon	25	28	SR15	16	5	2056	57.9963	-148.3515	1256	3	BON025	QTowF;
RB13701.06	60Bon	26	31	GAK12	17	5	0748	58.2463	-147.9253	2204	3	BON026	QTowF, RCountL
RB13701.12	60Bon	27	32	GAK11	17	5	1055	58.3897	-148.0598	1444	3	BON027	QTowF, RCountL
RB13701.17	60Bon	28	33	GAK10	17	5	1407	58.5437	-148.2107	1467	3	BON028	QTowF, RCountJ
RB13701.23	60Bon	29	34	GAK9	17	5	1632	58.6798	-148.3402	286	3	BON029	QTowF, RCountL
RB13701.29	60Bon	30	35	GAK8	17	5	1919	58.7920	-148.4873	294	3	BON030	L-Oto, QTowF, Rcoun
RB13701.34	60Bon	31	36	GAK7I	17	5	2113	58.8828	-148.5613	303	3	BON031	QTowF, RCountL
RB13701.40	60Bon	32	37	GAK7	17	5	2305	58.9730	-148.6270	245	3	BON032	QTowF, RCountL
RB13801.04	60Bon	33	38	GAK6I	18	5	0101	59.0615	-148.6983	182	3	BON033	QTowF, RCountL
RB13801.10	60Bon	34	39	GAK6	18	5	0335	59.1170	-148.7687	155	3	BON034	QTowF, RCountL
RB13801.16	60Bon	35	40	GAK5	18	5	0545	59.2612	-148.8952	168	3	BON035	QTowF, RCountL
RB13801.21	60Bon	36	41	GAK4	18	5	0754	59.4100	-149.0385	203	3	BON36	QTowF, RCountJ
RB13801.27	60Bon	37	42	GAK3	18	5	1006	59.5547	-149.1775	214	3	BON037	QTowF, RCountL; Net 1 of 20cm bongo wrapped up, used net
RB13801.33	60Bon	38	43	GAK2	18	5	1214	59.6948	-149.3237	229	3	BON038	L-Oto, QTowF, Rcoun
RB13801.39	60Bon	39	44	GAK1	18	5	1439	59.8407	-149.4612	290	3	BON039	L-Oto, QTowF, RCoun; HIT BOTTOM, SOME SILT IN SAMPLE
RB13801.44	60Bon	40	45	FF1	18	5	1800	59.8008	-148.7737	185	3	BON040	QTowF, RCountL
RB13801.49	60Bon	41	46	FF2	18	5	1951	59.7097	-148.6738	196	3	BON041	QTowF, RCountL
RB13801.54	60Bon	42	47	FF3	18	5	2126	59.6172	-148.5918	95	3	BON042	QTowF, RCountL
RB13801.59	60Bon	43	48	FF4	18	5	2252	59.5247	-149.4958	98	3	BON043	QTowF, RCountL

Table 8: 60 cm Bongo Tows (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13901.04	60Bon	44	49	FF5	19	5	0039	59.4322	-148.4017	143	3	BON044	QTowF, RCountL
RB13901.09	60Bon	45	50	FF6	19	5	0227	59.2927	-148.2647	124	3	BON045	QTowF, RCountL
RB13901.14	60Bon	46	51	FF7	19	5	0420	59.1540	-148.1255	140	3	BON046	QTowF, RCountL
RB13901.19	60Bon	47	52	FF8	19	5	0617	59.0143	-147.9902	171	3	BON047	QTowF, RCountL; Flowmeters on 60BON spinning in the wind.
RB13901.24	60Bon	48	53	FF9	19	5	0858	58.8728	-147.8583	1158	3	BON048	QTowF, RCountL
RB13901.29	60Bon	49	54	FF10	19	5	1151	58.7340	-147.7212	2138	3	BON049	QTowF, RCountL
RB13901.34	60Bon	50	55	ATA1	19	5	1453	59.0048	-148.1763	157	2	BON050	QTowF, RCountL
RB13901.38	60Bon	51	56	ATA2	19	5	1635	58.9190	-148.2255	279	2	BON051	QTowF, RCountL
RB13901.42	60Bon	52	57	ATA3	19	5	1829	58.8360	-148.2450	277	2	BON052	QTowF, RCountL
RB13901.46	60Bon	53	58	ATA4	19	5	2004	58.7523	-148.2925	271	2	BON053	QTowF, RCountL
RB13901.50	60Bon	54	59	ATA5	19	5	2146	58.6652	-148.3330	279	2	BON054	QTowF; Surface chlorophyll came from ships flowthrough system.
RB13901.54	60Bon	55	60	ATA6	19	5	2321	58.5782	-148.3762	526	2	BON055	QTowF, RCountL
RB14001.03	60Bon	56	61	ATA7	20	5	0116	58.4932	-148.4085	800	2	BON056	QTowF, RCountL; SEACAT FILE FOR THIS ACCIDENTLY OVERWRITTEN WITH NEXT BONGO FILE (BON057)
RB14001.07	60Bon	57	62	ATB7	20	5	0408	58.6293	-148.8075	125	2	BON057	QTowF, RCountL
RB14001.11	60Bon	58	63	ATB6	20	5	0542	58.7188	-148.7528	240	2	BON058	QTowF, RCountL
RB14001.15	60Bon	59	64	ATB5	20	5	0724	58.8113	-148.7077	266	2	BON059	QTowF, RCountL
RB14001.19	60Bon	60	65	ATB4	20	5	0910	58.9007	-148.6573	273	2	BON060	QTowF, RCountL
RB14001.24	60Bon	61	66	ATB3	20	5	1046	58.9895	-148.6072	243	2	BON061	QTowF, RCountL
RB14001.28	60Bon	62	67	ATB2	20	5	1219	59.0767	-148.5578	220	2	BON062	QTowF, RCountL
RB14001.32	60Bon	63	68	ATB1	20	5	1345	59.1628	-148.5117	153	2	BON063	QTowF, RCountL
RB14001.36	60Bon	64	69	ATC1	20	5	1650	59.0920	-149.1337	150	2	BON064	QTowF, RCountL
RB14001.40	60Bon	65	70	ATC2	20	5	1835	58.9863	-149.1757	227	2	BON065	QTowF, RCountL
RB14001.44	60Bon	66	71	ATC3	20	5	2004	58.9370	-149.1960	221	2	BON066	QTowF, RCountL
RB14001.48	60Bon	67	72	ATC4	20	5	2127	58.8842	-149.2145	206	2	BON067	QTowF, RCountL; FLOWMETERS SPINNING IN WIND
RB14101.04	60Bon	68	75	ATD5	21	5	1445	58.6392	-149.6367	135	2	BON068	L-Oto, QTowF, RCountJ
RB14101.08	60Bon	69	76	ATD4	21	5	1650	58.7790	-149.5923	205	2	BON069	QTowF, RCountL
RB14101.12	60Bon	70	77	ATD3	21	5	1839	58.9123	-149.5398	243	2	BON070	QTowF, RCountL
RB14101.17	60Bon	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	L-Oto, QTowF, RCountL
RB14101.21	60Bon	72	79	ATD1	21	5	2158	59.1770	-149.4387	137	2	BON072	QTowF, RCountL
RB14201.03	60Bon	73	80	ATE1	22	5	0045	59.1227	-150.0610	151	2	BON073	QTowF, RCountL
RB14201.07	60Bon	74	81	ATE2	22	5	0213	59.0322	-150.0862	204	2	BON074	L-Oto, QTowF, RCountL
RB14201.12	60Bon	76	82	ATE3	22	5	0419	58.9425	-150.0988	216	3	BON076	QTowF, RCountL
RB14201.16	60Bon	77	83	ATE4	22	5	0559	58.8515	-150.1345	172	2	BON077	QTowF, RCountL
RB14201.26	60Bon	78	88	GAK9	22	5	1634	58.6802	-148.3473	280	3	BON078	QTowF, RCountL
RB14201.31	60Bon	79	89	GAK8	22	5	1846	58.7928	-148.4885	294	3	BON079	QTowF, RCountL
RB14201.40	60Bon	80	91	GAK7	22	5	2205	58.9745	-148.6283	247	3	BON080	QTowF, RCountL
RB14301.04	60Bon	81	93	GAK6	23	5	0056	59.1177	-148.7692	155	3	BON081	QTowF, RCountL
RB14301.09	60Bon	82	94	GAK5	23	5	0258	59.2635	-148.9072	171	3	BON082	QTowF, RCountL

Table 9: Satellite Tracked Drifter Releases - See Appendix I for column descriptions and Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.12	SatBuoy	1	2	GP2	14	5	1041	59.0153	-150.9513	174	5	SAT001	Deploy; SAT DRIFTER #13137 DEPLOYED
RB13401.23	SatBuoy	2	4	GP4	14	5	1427	58.8817	-150.8925	166	4	SAT002	Deploy; SAT DRIFTER # 13138 DEPLOYED
RB13701.08	SatBuoy	3	31	GAK12	17	5	0818	58.2515	-147.9133	2258	4	SAT003	Deploy; DRIFTER# 13142
RB13701.19	SatBuoy	4	33	GAK10	17	5	1434	58.5495	-148.2175	1475	4	SAT004	Deploy; DRIFTER # 13141
RB13701.36	SatBuoy	5	36	GAK7I	17	5	2151	58.8883	-148.5358	274	4	SAT005	Deploy; # 13156
RB13801.12	SatBuoy	6	39	GAK6	18	5	0431	59.1897	-148.8377	170	4	SAT006	Deploy; #13127 BETWEEN GAK 6 AND GAK 5
RB13801.23	SatBuoy	7	41	GAK4	18	5	0817	59.4153	-149.0258	201	4	SAT007	Deploy; DRIFTER #13139
RB13801.29	SatBuoy	8	42	GAK3	18	5	1030	59.5587	-149.1608	210	4	SAT008	Deploy; DRIFTER #13140
RB13801.35	SatBuoy	9	43	GAK2	18	5	1238	59.6998	-149.3230	229	4	SAT009	Deploy; DRIFTER #13131
RB13901.31	SatBuoy	10	54	FF10	19	5	1218	58.7293	-147.7378	2116	4	SAT010	Deploy; DRIFTER #13130
RB14001.21	SatBuoy	11	65	ATB4	20	5	0936	58.9087	-148.6490	270	3	SAT011	Deploy; drifter #13132
RB14201.36	SatBuoy	12	90	GAK7I	22	5	2051	58.8857	-148.5657	302	4	SAT012	Deploy; #13129
RB14301.11	SatBuoy	13	95	ATE5	23	5	0642	58.8050	-149.9213	206	1	SAT013	Deploy; # 13136

APPENDIX I

RB0103 EVENT LOG

EVENT LOG CONTENTS

Column Label	**Description**
Event#	Unique identifier for each line of event log
Instrument (Instr)	
	CTDB – CTD w/bottle sampling
	CTD – CTD w/o bottle sampling
	20Bon – 20cm Bongo
	60Bon – 60cm Bongo
	CAT – Seabird SeaCAT CTD
	Note: 20Bon, 60Bon, & CAT are a single lowering of the wire, but 3 different event #s. All 20Bon/ 60Bon/CAT were double oblique to 300m or to ca. 5m off bottom if shallower.
	CalVET – 60m-surface vertical egg tow; 26-cm diameter net; 0.053-mm mesh.
	Sat Buoy – deployment of satellite buoy
Cast	Sequence # for a particular instrument
Station (Sta)	
Station Standard (Sta std)	
Day	GMT time basis
Month (Mos)	GMT time basis
Time	GMT time; at depth time
Latitude (Lat)	Decimal degrees; north is positive
Longitude (Long)	Decimal degrees; east is positive
Water Depth	Depth of bottom
Haul	Sequence of gear deployments at a station
Station Alternate (Sta alt)	Alternate station name
Comments	Fluor – stimulated fluorescence during cast
	Chlor – chlorophyll extractions
	Nut – nutrients sampled
	QtowF – quantitative, formalin preserved tow
	L-Oto – larval pollock for otolith analysis
	Rcoun – pollock numbers counted

Appendix I: Event Log - See Tables 2 and 3 for abbreviations.

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.01	CTDB	1	1	GP1	14	5	0736	59.1000	-150.9897	172	1	CTD001	Chlor, CTD, Fluor, Nut
RB13401.02	CalVET	1	1	GP1	14	5	0807	59.1000	-150.9897	173	2	CAL001	Other,QTowF; SpE-Record both flows. Combined codends. Flow cts & time not recorded. Used 99 for flow; 3 min for tow time.
RB13401.03	20Bon	1	1	GP1	14	5	0824	59.1027	-150.9860	163	3	BON001	QTowF
RB13401.04	60Bon	1	1	GP1	14	5	0824	59.1027	-150.9860	163	3	BON001	L-Oto, QTowF, RCoun
RB13401.05	CAT	1	1	GP1	14	5	0824	59.1027	-150.9860	163	3	BON001	CAT
RB13401.06	CTDB	2	2	GP2	14	5	0935	59.0107	-150.9607	160	1	CTD002	Chlor, CTD, Fluor, Nut
RB13401.07	CalVET	2	2	GP2	14	5	0957	59.0107	-150.9605	160	2	CAL002	Discard; SpE- Combine codends in one jar. Codend came off, redid tow.
RB13401.08	CalVET	2	2	GP2	14	5	1004	59.0107	-150.9605	160	3	CAL002	Other, QTowF; SpE- Combine nets in one jar.
RB13401.09	20Bon	2	2	GP2	14	5	1019	59.0133	-150.9558	174	4	BON002	QTowF
RB13401.10	60Bon	2	2	GP2	14	5	1019	59.0133	-150.9558	174	4	BON002	L-Oto, QTowF, RCoun
RB13401.11	CAT	2	2	GP2	14	5	1019	59.0133	-150.9558	174	4	BON002	CAT
RB13401.12	SatBuoy	1	2	GP2	14	5	1041	59.0153	-150.9513	174	5	SAT001	Deploy; SAT DRIFTER #13137 DEPLOYED
RB13401.13	CTDB	3	3	GP3	14	5	1123	58.9502	-150.9300	144	1	CTD003	Chlor, CTD, Fluor, Nut
RB13401.14	CalVET	3	3	GP3	14	5	1155	58.9505	-150.9302	157	2	CAL003	Other, QTowF; SpE-Combine net one and two.
RB13401.15	20Bon	3	3	GP3	14	5	1213	58.9513	-150.9300	156	3	BON003	QTowF
RB13401.16	60Bon	3	3	GP3	14	5	1213	58.9513	-150.9300	156	3	BON003	L-Oto, QTowF, RCoun
RB13401.17	CAT	3	3	GP3	14	5	1213	58.9513	-150.9300	156	3	BON003	CAT
RB13401.18	CTDB	4	4	GP4	14	5	1323	58.8800	-150.8997	166	1	CTD004	Chlor, CTD, Fluor, Nut
RB13401.19	CalVET	4	4	GP4	14	5	1341	58.8800	-150.9000	166	2	CAL004	Other, QTowF; SpE-Combine nets 1 and 2.
RB13401.20	20Bon	4	4	GP4	14	5	1359	58.8872	-150.8900	166	3	BON004	QTowF
RB13401.21	60Bon	4	4	GP4	14	5	1359	58.8872	-150.8900	166	3	BON004	L-Oto, QTowF, RCoun
RB13401.22	CAT	4	4	GP4	14	5	1359	58.8872	-150.8900	166	3	BON004	CAT
RB13401.23	SatBuoy	2	4	GP4	14	5	1427	58.8817	-150.8925	166	4	SAT002	Deploy; SAT DRIFTER # 13138 DEPLOYED
RB13401.24	CTDB	5	5	GP5	14	5	1513	58.8200	-150.8802	192	1	CTD005	Chlor, CTD, Fluor, Nut
RB13401.25	CalVET	5	5	GP5	14	5	1535	58.8198	-150.8802	192	2	CAL005	Other, QTowF; NETS 1 AND TWO COMBINED IN ONE
RB13401.26	20Bon	5	5	GP5	14	5	1550	58.8208	-150.8742	191	3	BON005	QTowF
RB13401.27	60Bon	5	5	GP5	14	5	1550	58.8208	-150.8742	191	3	BON005	L-Oto, QTowF, RCoun
RB13401.28	CAT	5	5	GP5	14	5	1550	58.8208	-150.8742	191	3	BON005	CAT
RB13401.29	CTDB	6	6	GP6	14	5	1654	58.7488	-150.8660	188	1	CTD006	Chlor, CTD, Fluor, Nut
RB13401.30	CalVET	6	6	GP6	14	5	1716	58.7488	-150.8660	188	2	CAL006	Other, QTowF; NETS 1 AND 2 COMBINED IN ONE JAR
RB13401.31	20Bon	6	6	GP6	14	5	1730	58.7502	-150.8598	187	3	BON006	QTowF
RB13401.32	60Bon	6	6	GP6	14	5	1730	58.7502	-150.8598	187	3	BON006	L-Oto, QTowF, RCoun
RB13401.33	CAT	6	6	GP6	14	5	1730	58.7502	-150.8598	187	3	BON006	CAT
RB13401.34	CTDB	7	7	GP7	14	5	1904	58.5883	-150.7988	184	1	CTD007	Chlor, CTD, Fluor, Nut
RB13401.35	CalVET	7	7	GP7	14	5	1930	58.5883	-150.7988	183	2	CAL007	Other, QTowF; NETS 1 AND 2 COMBINED IN ONE JAR
RB13401.36	20Bon	7	7	GP7	14	5	1938	58.5892	-150.7967	184	3	BON007	QTowF
RB13401.37	60Bon	7	7	GP7	14	5	1938	58.5892	-150.7967	184	3	BON007	L-Oto
RB13401.38	CAT	7	7	GP7	14	5	1938	58.5892	-150.7967	184	3	BON007	CAT
RB13401.39	CTDB	8	8	GP8	14	5	2109	58.4285	-150.7280	79	1	CTD008	Chlor, C; Chlorophyll taken from wrong Nisken bottles. None for 0 depth. Rest are OK. BAM
RB13401.40	CalVET	8	8	GP8	14	5	2130	58.4282	-150.7278	79	2	CAL008	Other; NETS 1 AND 2 COMBINED IN ONE JAR

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13401.41	20Bon	8	8	GP8	14	5	2140	58.4305	-150.7290	80	3	BON008	QTowF; HIT BOTTOM
RB13401.42	60Bon	8	8	GP8	14	5	2140	58.4305	-150.7290	80	3	BON008	L-Oto; HIT BOTTOM
RB13401.43	CAT	8	8	GP8	14	5	2140	58.4305	-150.7290	80	3	BON008	CAT; HIT BOTTOM
RB13401.44	CTDB	9	9	GP9	14	5	2308	58.2668	-150.6578	67	1	CTD009	Chlor, C; Chlorphyll taken from wrong Nisken bottles. Depths OK. BAM
RB13401.45	CalVET	9	9	GP9	14	5	2331	58.2682	-150.6732	66	2	CAL009	Other; NETS ONE AND TWO COMBINED IN ONE JAR
RB13401.46	20Bon	9	9	GP9	14	5	2341	58.2707	-150.6813	66	3	BON009	QTowF; WIRE OUT NOT RECORDED, ESTIMATED AT 80. Jay Clark
RB13401.47	60Bon	9	9	GP9	14	5	2341	58.2707	-150.6813	66	3	BON009	QTowF; WIRE OUT NOT RECORDED, ESTIMATED AT 80. Jay Clark
RB13401.48	CAT	9	9	GP9	14	5	2341	58.2707	-150.6813	66	3	BON009	CAT; WIRE OUT NOT RECORDED, ESTIMATED AT 80. Jay Clark
RB13501.01	CTDB	10	10	GP10	15	5	0110	58.1047	-150.5870	153	1	CTD010	CTD, F; No chlorophyll. Samples taken from wrong Nisken bottles. BAM
RB13501.02	CalVET	10	10	GP10	15	5	0140	58.1040	-150.5870	153	2	CAL010	Other; NETS 1 AND 2 COMBINED IN ONE JAR
RB13501.03	20Bon	10	10	GP10	15	5	0149	58.1037	-150.5898	151	3	BON010	QTowF
RB13501.04	60Bon	10	10	GP10	15	5	0149	58.1037	-150.5898	151	3	BON010	L-Oto
RB13501.05	CAT	10	10	GP10	15	5	0149	58.1037	-150.5898	151	3	BON010	CAT
RB13501.06	CTDB	11	11	GP11	15	5	0323	58.1038	-150.9618	153	1	CTD011	CTD, F
RB13501.07	CTDB	12	12	GP12	15	5	0508	58.1048	-151.3432	142	1	CTD012	CTD, F
RB13501.08	CTDB	13	13	GP13	15	5	0646	58.1040	-151.7163	160	1	CTD013	CTD, F
RB13501.09	CTDB	14	14	SR1	15	5	1559	59.5178	-149.8165	206	1	CTD014	Chlor, C
RB13501.10	CalVET	11	14	SR1	15	5	1623	59.5177	-149.8165	206	2	CAL011	Other; COMBINED NETS 1 AND 2 IN ONE JAR
RB13501.11	20Bon	11	14	SR1	15	5	1643	59.5170	-149.8140	204	3	BON011	QTowF; 20BON NET 1 TANGLED IN FRAME, USED NET 2
RB13501.12	60Bon	11	14	SR1	15	5	1643	59.5170	-149.8140	204	3	BON011	L-Oto; 20BON NET 1 TANGLED IN FRAME, USED NET 2
RB13501.13	CAT	11	14	SR1	15	5	1643	59.5170	-149.8140	204	3	BON011	CAT; 20BON NET 1 TANGLED IN FRAME, USED NET 2
RB13501.14	CTDB	15	15	SR2	15	5	1753	59.4300	-149.7572	202	1	CTD015	Chlor, C; Spilled small amount of 30m chlorophyll
RB13501.15	CalVET	12	15	SR2	15	5	1813	59.4300	-149.7572	204	2	CAL012	Other; COMBINED NETS 1 AND 2 IN ONE JAR
RB13501.16	20Bon	12	15	SR2	15	5	1827	59.4312	-149.7500	200	3	BON012	QTowF
RB13501.17	60Bon	12	15	SR2	15	5	1827	59.4312	-149.7500	200	3	BON012	L-Oto
RB13501.18	CAT	12	15	SR2	15	5	1827	59.4312	-149.7500	200	3	BON012	CAT
RB13501.19	CTDB	16	16	SR3	15	5	1933	59.3378	-149.6650	128	1	CTD016	Chlor, C
RB13501.20	CalVET	13	16	SR3	15	5	1949	59.3378	-149.6650	141	2	CAL013	Other, QTowF; NETS 1 AND 2 COMBINED IN ONE J
RB13501.21	20Bon	13	16	SR3	15	5	2000	59.3390	-149.6610	133	3	BON013	QTowF
RB13501.22	60Bon	13	16	SR3	15	5	2000	59.3390	-149.6610	133	3	BON013	L-Oto, QTowF, RCoun
RB13501.23	CAT	13	16	SR3	15	5	2000	59.3390	-149.6610	133	3	BON013	CAT
RB13501.24	CTDB	17	17	SR4	15	5	2056	59.2467	-149.5722	133	1	CTD017	Chlor, CTD, Fluor, Nut; Chlorophyll taken from wrong Niskin bottle. Depths are correct as listed - Bern M.
RB13501.25	CalVET	14	17	SR4	15	5	2121	59.2467	-149.5722	133	2	CAL014	Other, QTowF; SpE-Combined nets 1 and 2 in same jar.
RB13501.26	20Bon	14	17	SR4	15	5	2127	59.2470	-149.5705	133	3	BON014	QTowF

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13501.27	60Bon	14	17	SR4	15	5	2127	59.2470	-149.5705	133	3	BON014	QTowF
RB13501.28	CAT	14	17	SR4	15	5	2127	59.2470	-149.5705	133	3	BON014	CAT
RB13501.29	CTDB	18	18	SR5	15	5	2234	59.1538	-149.4805	148	1	CTD018	Chlor, CTD, Fluor, Nut; Chlorophyll taken from the wrong Nisken bottles. Depths listed are correct - Bern
RB13501.30	CalVET	15	18	SR5	15	5	2258	59.1542	-149.4807	147	2	CAL015	Other, QTowF; SpE- Combined nets 1 and 2 in same jar.
RB13501.31	20Bon	15	18	SR5	15	5	2303	59.1557	-149.4760	145	3	BON015	QTowF; Flowmeters spinning in air - very fast.
RB13501.32	60Bon	15	18	SR5	15	5	2303	59.1557	-149.4760	145	3	BON015	L-Oto, QTowF, RCoun; Flowmeters spinning in air - very fast.
RB13501.33	CAT	15	18	SR5	15	5	2303	59.1557	-149.4760	145	3	BON015	CAT
RB13601.01	CTDB	19	19	SR6	16	5	0015	59.0608	-149.3882	210	1	CTD019	CTD, Fluor, NutsCM, P; No Chlorophyll samples. Water taken from wrong Nisken bottles - Bern M.
RB13601.02	CalVET	16	19	SR6	16	5	0043	59.0613	-149.3888	208	2	CAL016	Other, QTowF
RB13601.03	20Bon	16	19	SR6	16	5	0049	59.0620	-149.3888	210	3	BON016	QTowF; Flowmeters spinning fast in wind.
RB13601.04	60Bon	16	19	SR6	16	5	0049	59.0620	-149.3888	210	3	BON016	QTowF; Flowmeters spinning fast in wind.
RB13601.05	CAT	16	19	SR6	16	5	0049	59.0620	-149.3888	210	3	BON016	CAT
RB13601.06	CTDB	20	20	SR7	16	5	0215	58.9680	-149.2983	232	1	CTD020	CTD, Fluor, NutsCM, P; No chlorophyll Samples taken from wrong Niskin bottles - Bern M.
RB13601.07	CalVET	17	20	SR7	16	5	0244	58.9683	-149.2985	232	2	CAL017	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.08	20Bon	17	20	SR7	16	5	0250	58.9687	-149.2977	232	3	BON017	QTowF
RB13601.09	60Bon	17	20	SR7	16	5	0250	58.9687	-149.2977	232	3	BON017	L-Oto, QTowF, RCoun
RB13601.10	CAT	17	20	SR7	16	5	0250	58.9687	-149.2977	232	3	BON017	CAT
RB13601.11	CTDB	21	21	SR8	16	5	0409	58.8752	-149.2073	203	1	CTD021	CTD, Fluor, NutsCM, P; No chlorophyll. Samples taken from wrong Niskin bottles - Bern M.
RB13601.12	CalVET	18	21	SR8	16	5	0435	58.8692	-149.2073	203	2	CAL018	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.13	20Bon	18	21	SR8	16	5	0442	58.8753	-149.2067	203	3	BON018	QTowF
RB13601.14	60Bon	18	21	SR8	16	5	0442	58.8753	-149.2067	203	3	BON018	L-Oto, QTowF, RCoun
RB13601.15	CAT	18	21	SR8	16	5	0442	58.8753	-149.2067	203	3	BON018	CAT
RB13601.16	CTDB	22	22	SR9	16	5	0554	58.7830	-149.1153	218	1	CTD022	Chlor, CTD, Fluor, Nut
RB13601.17	CalVET	19	22	SR9	16	5	0620	58.7830	-149.1153	218	2	CAL019	Other, QTowF; SpE-Combine nets 1 and 2.
RB13601.18	20Bon	19	22	SR9	16	5	0628	58.7830	-149.1133	221	3	BON019	QTowF
RB13601.19	60Bon	19	22	SR9	16	5	0628	58.7830	-149.1133	221	3	BON019	QTowF
RB13601.20	CAT	19	22	SR9	16	5	0628	58.7830	-149.1133	221	3	BON019	CAT
RB13601.21	CTDB	23	23	SR10	16	5	0750	58.6912	-149.0240	152	1	CTD023	Chlor, CTD, Fluor, Nut
RB13601.22	CalVET	20	23	SR10	16	5	0809	58.6912	-149.0242	153	2	CAL020	Other, QTowF; SpE -Combine nets 1 and 2.
RB13601.23	20Bon	20	23	SR10	16	5	0822	58.6933	-149.0135	153	3	BON020	QTowF
RB13601.24	60Bon	20	23	SR10	16	5	0822	58.6933	-149.0135	153	3	BON020	QTowF
RB13601.25	CAT	20	23	SR10	16	5	0822	58.6933	-149.0135	153	3	BON020	CAT
RB13601.26	CTDB	24	24	SR11	16	5	0955	58.5520	-148.8883	116	1	CTD024	Chlor, CTD, Fluor, Nut
RB13601.27	CalVET	21	24	SR11	16	5	1012	58.5523	-148.8887	117	2	CAL021	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.28	20Bon	21	24	SR11	16	5	1024	58.5535	-148.8817	117	3	BON021	QTowF
RB13601.29	60Bon	21	24	SR11	16	5	1024	58.5535	-148.8817	117	3	BON021	QTowF
RB13601.30	CAT	21	24	SR11	16	5	1024	58.5535	-148.8817	117	3	BON021	CAT
RB13601.31	CTDB	25	25	SR12	16	5	1153	58.4125	-148.7542	129	1	CTD025	Chlor, CTD, Fluor, Nut
RB13601.32	CalVET	22	25	SR12	16	5	1209	58.4125	-148.8042	129	2	CAL022	Other, QTowF; SpE -Combine nets 1 and 2.
RB13601.33	20Bon	22	25	SR12	16	5	1223	58.4148	-148.7510	129	3	BON022	QTowF
RB13601.34	60Bon	22	25	SR12	16	5	1223	58.4148	-148.7510	129	3	BON022	QTowF

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13601.35	CAT	22	25	SR12	16	5	1223	58.4148	-148.7510	129	3	BON022	CAT
RB13601.36	CTDB	26	26	SR13	16	5	1409	58.2735	-148.6188	329	1	CTD026	Chlor, CTD, NutsCM; Fluor and Par taken off CTD.
RB13601.37	CalVET	23	26	SR13	16	5	1432	58.2735	-148.6187	329	2	CAL023	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.38	20Bon	23	26	SR13	16	5	1451	58.2752	-148.6162	324	3	BON023	QTowF
RB13601.39	60Bon	23	26	SR13	16	5	1451	58.2752	-148.6162	324	3	BON023	QTowF
RB13601.40	CAT	23	26	SR13	16	5	1451	58.2752	-148.6162	324	3	BON023	CAT
RB13601.41	CTDB	27	27	SR14	16	5	1706	58.1340	-148.4860	1201	1	CTD027	Chlor, CTD, NutsCM
RB13601.42	CalVET	24	27	SR14	16	5	1739	58.1340	-148.4862	1200	2	CAL024	Other, QTowF; SpE - Combine nets 1 and 2.
RB13601.43	20Bon	24	27	SR14	16	5	1758	58.1365	-148.4783	1212	3	BON024	QTowF
RB13601.44	60Bon	24	27	SR14	16	5	1758	58.1365	-148.4783	1212	3	BON024	QTowF
RB13601.45	CAT	24	27	SR14	16	5	1758	58.1365	-148.4783	1212	3	BON024	CAT
RB13601.46	CTDB	28	28	SR15	16	5	1938	57.9960	-148.3525	1254	1	CTD028	Chlor, CTD, NutsCM
RB13601.47	CalVET	25	28	SR15	16	5	2051	57.9960	-148.3523	1255	2	CAL025	Other, QTowF; Combined nets 1 and 2.
RB13601.48	20Bon	25	28	SR15	16	5	2056	57.9963	-148.3515	1256	3	BON025	QTowF
RB13601.49	60Bon	25	28	SR15	16	5	2056	57.9963	-148.3515	1256	3	BON025	QTowF
RB13601.50	CAT	25	28	SR15	16	5	2056	57.9963	-148.3515	1256	3	BON025	CAT
RB13701.01	CTDB	29	29	GAK14A	17	5	0049	58.2000	-147.3995	2771	1	CTD029	CTDto 1500m, NutsCM
RB13701.02	CTDB	30	30	FATE-1	17	5	0303	58.2333	-147.6665	2361	1	CTD030	Chlor, CTD, NutsCM
RB13701.03	CTDB	31	31	GAK12	17	5	0652	58.2442	-147.9335	2213	1	CTD031	Chlor, CTD to 1500m, NutsCM
RB13701.04	CalVET	26	31	GAK12	17	5	0732	58.2442	-147.9335	2162	2	CAL026	Other, QTowF; NETS 1 AND 2 COMBINED
RB13701.05	20Bon	26	31	GAK12	17	5	0748	58.2463	-147.9253	2204	3	BON026	QTowF
RB13701.06	60Bon	26	31	GAK12	17	5	0748	58.2463	-147.9253	2204	3	BON026	QTowF, RCountL
RB13701.07	CAT	26	31	GAK12	17	5	0748	58.2463	-147.9253	2204	3	BON026	CAT
RB13701.08	SatBuoy	3	31	GAK12	17	5	0818	58.2515	-147.9133	2258	4	SAT003	Deploy; DRIFTER# 13142
RB13701.09	CTDB	32	32	GAK11	17	5	0954	58.3885	-148.0705	1435	1	CTD032	Chlor, CTD, Fluor, Nut
RB13701.10	CalVET	27	32	GAK11	17	5	1037	58.3885	-148.0705	1435	2	CAL027	Other, QTowF; NETS 1 AND 2 COMBINED
RB13701.11	20Bon	27	32	GAK11	17	5	1055	58.3897	-148.0598	1444	3	BON027	Other, QTowF
RB13701.12	60Bon	27	32	GAK11	17	5	1055	58.3897	-148.0598	1444	3	BON027	QTowF, RCountL
RB13701.13	CAT	27	32	GAK11	17	5	1055	58.3897	-148.0598	1444	3	BON027	CAT
RB13701.14	CTDB	33	33	GAK10	17	5	1308	58.5408	-148.2103	1476	1	CTD033	Chlor, CTD, NutsCM
RB13701.15	CalVET	28	33	GAK10	17	5	1351	58.5408	-148.2103	1475	2	CAL028	QTowF; NET 1 SAMPLE SPILLED ON DECK, USED NET 2
RB13701.16	20Bon	28	33	GAK10	17	5	1407	58.5437	-148.2107	1467	3	BON028	QTowF
RB13701.17	60Bon	28	33	GAK10	17	5	1407	58.5437	-148.2107	1467	3	BON028	QTowF, RCountJ
RB13701.18	CAT	28	33	GAK10	17	5	1407	58.5437	-148.2107	1467	3	BON028	CAT
RB13701.19	SatBuoy	4	33	GAK10	17	5	1434	58.5495	-148.2175	1475	4	SAT004	Deploy; DRIFTER # 13141
RB13701.20	CTD	34	34	GAK9	17	5	1550	58.6800	-148.3497	282	1	CTD034	CTD, Fluor, PAR; CTD CAST IS OK, BUT BOTTLES DID NOT TRIP
RB13701.21	CalVET	29	34	GAK9	17	5	1612	58.6800	-148.3497	283	2	CAL029	Other, QTowF; COMBINED NET ONE AND TWO
RB13701.22	20Bon	29	34	GAK9	17	5	1632	58.6798	-148.3402	286	3	BON029	QTowF
RB13701.23	60Bon	29	34	GAK9	17	5	1632	58.6798	-148.3402	286	3	BON029	QTowF, RCountL
RB13701.24	CAT	29	34	GAK9	17	5	1632	58.6798	-148.3402	286	3	BON029	CAT
RB13701.25	CTDB	35	34	GAK9	17	5	1721	58.6802	-148.3500	283	4	CTD035	Chlor, CTD, Fluor, Nut; RE-DO OF HAUL 1
RB13701.26	CTDB	36	35	GAK8	17	5	1852	58.7920	-148.4893	294	1	CTD036	Chlor, CTD, Fluor, Nut
RB13701.27	CalVET	30	35	GAK8	17	5	1913	58.7918	-148.4893	294	2	CAL030	Other, QTowF; Combine Nets 1 and 2
RB13701.28	20Bon	30	35	GAK8	17	5	1919	58.7920	-148.4873	294	3	BON030	QTowF

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13701.29	60Bon	30	35	GAK8	17	5	1919	58.7920	-148.4873	294	3	BON030	L-Oto, QTowF, RCoun
RB13701.30	CAT	30	35	GAK8	17	5	1919	58.7920	-148.4873	294	3	BON030	CAT
RB13701.31	CTDB	37	36	GAK7I	17	5	2032	58.8820	-148.5588	305	1	CTD037	Chlor, CTD, Fluor, Nut; bottles @ 0 and 15m did not fire. Only 2 bottles at 15m.
RB13701.32	CalVET	31	36	GAK7I	17	5	2108	58.8827	-148.5620	304	2	CAL031	Other, QTowF; Combine nets 1 and 2
RB13701.33	20Bon	31	36	GAK7I	17	5	2113	58.8828	-148.5613	303	3	BON031	QTowF
RB13701.34	60Bon	31	36	GAK7I	17	5	2113	58.8828	-148.5613	303	3	BON031	QTowF, RCountL
RB13701.35	CAT	31	36	GAK7I	17	5	2113	58.8828	-148.5613	303	3	BON031	CAT
RB13701.36	SatBuoy	5	36	GAK7I	17	5	2151	58.8883	-148.5358	274	4	SAT005	Deploy; # 13156
RB13701.37	CTDB	38	37	GAK7	17	5	2228	58.9720	-148.6285	245	1	CTD038	CTD, Fluor, NutsCM, P
RB13701.38	CalVET	32	37	GAK7	17	5	2259	58.9728	-148.6288	245	2	CAL032	Other, QTowF; Combine nets 1 and 2
RB13701.39	20Bon	32	37	GAK7	17	5	2305	58.9730	-148.6270	245	3	BON032	QTowF
RB13701.40	60Bon	32	37	GAK7	17	5	2305	58.9730	-148.6270	245	3	BON032	QTowF, RCountL
RB13701.41	CAT	32	37	GAK7	17	5	2305	58.9730	-148.6270	245	3	BON032	CAT
RB13801.01	CTDB	39	38	GAK6I	18	5	0020	59.0622	-148.6997	182	1	CTD039	CTD, Fluor, PAR; bottles fired @ unknown depths
RB13801.02	CalVET	33	38	GAK6I	18	5	0055	59.0617	-148.7000	182	2	CAL033	Other, QTowF; Combine nets 1 and 2
RB13801.03	20Bon	33	38	GAK6I	18	5	0101	59.0615	-148.6983	182	3	BON033	QTowF
RB13801.04	60Bon	33	38	GAK6I	18	5	0101	59.0615	-148.6983	182	3	BON033	QTowF, RCountL
RB13801.05	CAT	33	38	GAK6I	18	5	0101	59.0615	-148.6983	182	3	BON033	CAT
RB13801.07	CTDB	41	39	GAK6	18	5	0304	59.1175	-148.7695	154	1	CTD041	Chlor, CTD, Fluor, Nut
RB13801.08	CalVET	34	39	GAK6	18	5	0329	59.1172	-148.7698	155	2	CAL034	Other, QTowF; Combine nets 1 and 2
RB13801.09	20Bon	34	39	GAK6	18	5	0335	59.1170	-148.7687	155	3	BON034	QTowF
RB13801.10	60Bon	34	39	GAK6	18	5	0335	59.1170	-148.7687	155	3	BON034	QTowF, RCountL
RB13801.11	CAT	34	39	GAK6	18	5	0335	59.1170	-148.7687	155	3	BON034	CAT
RB13801.12	SatBuoy	6	39	GAK6	18	5	0431	59.1897	-148.8377	170	4	SAT006	Deploy; #13127 BETWEEN GAK 6 AND GAK 5
RB13801.13	CTDB	42	40	GAK5	18	5	0506	59.2630	-148.9075	172	1	CTD042	Chlor, CTD, NutsCM
RB13801.14	CalVET	35	40	GAK5	18	5	0529	59.2630	-148.9077	172	2	CAL035	Other, QTowF; Combine nets 1 and 2
RB13801.15	20Bon	35	40	GAK5	18	5	0545	59.2612	-148.8952	168	3	BON035	QTowF
RB13801.16	60Bon	35	40	GAK5	18	5	0545	59.2612	-148.8952	168	3	BON035	QTowF, RCountL
RB13801.17	CAT	35	40	GAK5	18	5	0545	59.2612	-148.8952	168	3	BON035	CAT
RB13801.18	CTDB	43	41	GAK4	18	5	0723	59.4085	-149.0473	224	1	CTD043	Chlor, CTD, NutsCM; One of the 15m bottles did not trip
RB13801.19	CalVET	36	41	GAK4	18	5	0741	59.4087	-149.0473	204	2	CAL036	Other, QTowF; COMBINED NETS 1 AND 2
RB13801.20	20Bon	36	41	GAK4	18	5	0754	59.4100	-149.0385	203	3	BON36	QTowF
RB13801.21	60Bon	36	41	GAK4	18	5	0754	59.4100	-149.0385	203	3	BON36	QTowF, RCountJ
RB13801.22	CAT	36	41	GAK4	18	5	0754	59.4100	-149.0385	203	3	BON36	CAT
RB13801.23	SatBuoy	7	41	GAK4	18	5	0817	59.4153	-149.0258	201	4	SAT007	Deploy; DRIFTER #13139
RB13801.24	CTDB	44	42	GAK3	18	5	0930	59.5540	-149.1870	217	1	CTD044	Chlor, CTD, NutsCM
RB13801.25	CalVET	37	42	GAK3	18	5	0952	59.5538	-149.1868	219	2	CAL037	Other, QTowF; NETS 1 AND 2 COMBINED
RB13801.26	20Bon	37	42	GAK3	18	5	1006	59.5547	-149.1775	214	3	BON037	QTowF; Net 1 of 20cm bongo wrapped up, used net
RB13801.27	60Bon	37	42	GAK3	18	5	1006	59.5547	-149.1775	214	3	BON037	QTowF, RCountL; Net 1 of 20cm bongo wrapped up, used net
RB13801.28	CAT	37	42	GAK3	18	5	1006	59.5547	-149.1775	214	3	BON037	CAT; Net 1 of 20cm bongo wrapped up, used net
RB13801.29	SatBuoy	8	42	GAK3	18	5	1030	59.5587	-149.1608	210	4	SAT008	Deploy; DRIFTER #13140
RB13801.30	CTDB	45	43	GAK2	18	5	1141	59.6923	-149.3263	230	1	CTD045	Chlor, CTD, NutsCM
RB13801.31	CalVET	38	43	GAK2	18	5	1200	59.6923	-149.3263	230	2	CAL038	Other, QTowF; COMBINED NETS 1 AND 2
RB13801.32	20Bon	38	43	GAK2	18	5	1214	59.6948	-149.3237	229	3	BON038	QTowF

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13801.33	60Bon	38	43	GAK2	18	5	1214	59.6948	-149.3237	229	3	BON038	L-Oto, QTowF, RCoun
RB13801.34	CAT	38	43	GAK2	18	5	1214	59.6948	-149.3237	229	3	BON038	CAT
RB13801.35	SatBuoy	9	43	GAK2	18	5	1238	59.6998	-149.3230	229	4	SAT009	Deploy; DRIFTER #13131
RB13801.36	CTDB	46	44	GAK1	18	5	1401	59.8458	-149.4660	274	1	CTD046	Chlor, CTD, NutsCM; 20M BOTTLE DID NOT TRIP
RB13801.37	CalVET	39	44	GAK1	18	5	1421	59.8458	-149.4660	274	2	CAL039	Other, QTowF; COMBINED NETS 1 AND 2
RB13801.38	20Bon	39	44	GAK1	18	5	1439	59.8407	-149.4612	290	3	BON039	QTowF; HIT BOTTOM, SOME SILT IN SAMPLE
RB13801.39	60Bon	39	44	GAK1	18	5	1439	59.8407	-149.4612	290	3	BON039	L-Oto, QTowF, RCoun; HIT BOTTOM, SOME SILT IN SAMPLE
RB13801.40	CAT	39	44	GAK1	18	5	1439	59.8407	-149.4612	290	3	BON039	CAT; HIT BOTTOM, SOME SILT IN SAMPLE
RB13801.41	CTDB	47	45	FF1	18	5	1735	59.8022	-148.7733	184	1	CTD047	Chlor, CTD, NutsCM
RB13801.42	CalVET	40	45	FF1	18	5	1753	59.8022	-148.7732	184	2	CAL040	Other, QTowF; Combine nets 1 and 2.
RB13801.43	20Bon	40	45	FF1	18	5	1800	59.8008	-148.7737	185	3	BON040	QTowF
RB13801.44	60Bon	40	45	FF1	18	5	1800	59.8008	-148.7737	185	3	BON040	QTowF, RCountL
RB13801.45	CAT	40	45	FF1	18	5	1800	59.8008	-148.7737	185	3	BON040	CAT
RB13801.46	CTDB	48	46	FF2	18	5	1910	59.7100	-148.6768	196	1	CTD048	Chlor, CTD, NutsCM; Bottle for 30m did not trip.
RB13801.47	CalVET	41	46	FF2	18	5	1944	59.7098	-148.6768	196	2	CAL041	Other, QTowF; Combine nets 1 and 2.
RB13801.48	20Bon	41	46	FF2	18	5	1951	59.7097	-148.6738	196	3	BON041	QTowF
RB13801.49	60Bon	41	46	FF2	18	5	1951	59.7097	-148.6738	196	3	BON041	QTowF, RCountL
RB13801.50	CAT	41	46	FF2	18	5	1951	59.7097	-148.6738	196	3	BON041	CAT
RB13801.51	CTDB	49	47	FF3	18	5	2056	59.6170	-148.5882	96	1	CTD049	Chlor, CTD, Fluor, NutsCM, PAR; CTD 50m bottle did not fire.
RB13801.52	CalVET	42	47	FF3	18	5	2117	59.6170	-148.5883	95	2	CAL042	Other, QTowF; Combine nets 1 and 2.
RB13801.53	20Bon	42	47	FF3	18	5	2126	59.6172	-148.5918	95	3	BON042	QTowF
RB13801.54	60Bon	42	47	FF3	18	5	2126	59.6172	-148.5918	95	3	BON042	QTowF, RCountL
RB13801.55	CAT	42	47	FF3	18	5	2126	59.6172	-148.5918	95	3	BON042	CAT
RB13801.56	CTDB	50	48	FF4	18	5	2226	59.5248	-148.4943	98	1	CTD050	CTD, Fluor, PAR; No chlorophylls taken. Bottles not set right. CTD cast repeated.
RB13801.57	CalVET	43	48	FF4	18	5	2246	59.5248	-148.4943	98	2	CAL043	Other, QTowF; Combine nets 1 and 2.
RB13801.58	20Bon	43	48	FF4	18	5	2252	59.5247	-149.4958	98	3	BON043	QTowF
RB13801.59	60Bon	43	48	FF4	18	5	2252	59.5247	-149.4958	98	3	BON043	QTowF, RCountL
RB13801.60	CAT	43	48	FF4	18	5	2252	59.5247	-149.4958	98	3	BON043	CAT
RB13801.61	CTDB	51	48	FF4	18	5	2305	59.5233	-148.5062	96	4	CTD051	Chlor, CTD, Fluor, NutsCM, PAR;
RB13901.01	CTDB	52	49	FF5	19	5	0012	59.4322	-148.4017	143	1	CTD052	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.02	CalVET	44	49	FF5	19	5	0034	59.4322	-148.4017	143	2	CAL044	Other, QTowF; Combine nets 1 and 2.
RB13901.03	20Bon	44	49	FF5	19	5	0039	59.4322	-148.4017	143	3	BON044	QTowF
RB13901.04	60Bon	44	49	FF5	19	5	0039	59.4322	-148.4017	143	3	BON044	QTowF, RCountL
RB13901.05	CAT	44	49	FF5	19	5	0039	59.4322	-148.4017	143	3	BON044	CAT
RB13901.06	CTDB	53	50	FF6	19	5	0200	59.2928	-148.2630	125	1	CTD053	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.07	CalVET	45	50	FF6	19	5	0219	59.2928	-148.2630	124	2	CAL045	Other, QTowF; Combine nets 1 and 2.
RB13901.08	20Bon	45	50	FF6	19	5	0227	59.2927	-148.2647	124	3	BON045	QTowF
RB13901.09	60Bon	45	50	FF6	19	5	0227	59.2927	-148.2647	124	3	BON045	QTowF, RCountL
RB13901.10	CAT	45	50	FF6	19	5	0227	59.2927	-148.2647	124	3	BON045	CAT
RB13901.11	CTDB	54	51	FF7	19	5	0352	59.1545	-148.1240	141	1	CTD054	Chlor, CTD, Fluor, NutsCM, PAR
RB13901.12	CalVET	46	51	FF7	19	5	0415	59.1545	-148.1240	141	2	CAL046	Other, QTowF; Combine nets 1 and 2.
RB13901.13	20Bon	46	51	FF7	19	5	0420	59.1540	-148.1255	140	3	BON046	QTowF
RB13901.14	60Bon	46	51	FF7	19	5	0420	59.1540	-148.1255	140	3	BON046	QTowF, RCountL

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13901.15	CAT	46	51	FF7	19	5	0420	59.1540	-148.1255	140	3	BON046	CAT
RB13901.16	CTDB	55	52	FF8	19	5	0545	59.0153	-147.9878	166	1	CTD055	Chlor, CTD, Fluor, NutsCM, PAR;
RB13901.17	CalVET	47	52	FF8	19	5	0611	59.0153	-147.9878	167	2	CAL047	Other, QTowF; Combine nets 1 and 2
RB13901.18	20Bon	47	52	FF8	19	5	0617	59.0143	-147.9902	171	3	BON047	QTowF; Flowmeters on 60BON spinning in the wind.
RB13901.19	60Bon	47	52	FF8	19	5	0617	59.0143	-147.9902	171	3	BON047	QTowF, RCountL; Flowmeters on 60BON spinning in the wind.
RB13901.20	CAT	47	52	FF8	19	5	0617	59.0143	-147.9902	171	3	BON047	CAT
RB13901.21	CTDB	56	53	FF9	19	5	0804	58.8767	-147.8508	1167	1	CTD056	Chlor, CTD, NutsCM
RB13901.22	CalVET	48	53	FF9	19	5	0842	58.8765	-147.8508	1167	2	CAL048	Other, QTowF; COMBINED NETS 1 AND 2
RB13901.23	20Bon	48	53	FF9	19	5	0858	58.8728	-147.8583	1158	3	BON048	QTowF
RB13901.24	60Bon	48	53	FF9	19	5	0858	58.8728	-147.8583	1158	3	BON048	QTowF, RCountL
RB13901.25	CAT	48	53	FF9	19	5	0858	58.8728	-147.8583	1158	3	BON048	CAT
RB13901.26	CTDB	57	54	FF10	19	5	1050	58.7378	-147.7132	2160	1	CTD057	Chlor, CTD to 1500m, NutsCM; 3OM BOTTLE DID NOT CLOSE
RB13901.27	CalVET	49	54	FF10	19	5	1133	58.7377	-147.7128	2160	2	CAL049	Other, QTowF; COMBINED NETS 1 AND 2
RB13901.28	20Bon	49	54	FF10	19	5	1151	58.7340	-147.7212	2138	3	BON049	QTowF
RB13901.29	60Bon	49	54	FF10	19	5	1151	58.7340	-147.7212	2138	3	BON049	QTowF, RCountL
RB13901.30	CAT	49	54	FF10	19	5	1151	58.7340	-147.7212	2138	3	BON049	CAT
RB13901.31	SatBuoy	10	54	FF10	19	5	1218	58.7293	-147.7378	2116	4	SAT010	Deploy; DRIFTER #13130
RB13901.32	CTDB	58	55	ATA1	19	5	1427	59.0082	-148.1662	152	1	CTD058	Chlor, CTD, NutsCM
RB13901.33	20Bon	50	55	ATA1	19	5	1453	59.0048	-148.1763	157	2	BON050	QTowF
RB13901.34	60Bon	50	55	ATA1	19	5	1453	59.0048	-148.1763	157	2	BON050	QTowF, RCountL
RB13901.35	CAT	50	55	ATA1	19	5	1453	59.0048	-148.1763	157	2	BON050	CAT
RB13901.36	CTDB	59	56	ATA2	19	5	1600	58.9228	-148.2085	275	1	CTD059	Chlor, CTD, NutsCM
RB13901.37	20Bon	51	56	ATA2	19	5	1635	58.9190	-148.2255	279	2	BON051	QTowF
RB13901.38	60Bon	51	56	ATA2	19	5	1635	58.9190	-148.2255	279	2	BON051	QTowF, RCountL
RB13901.39	CAT	51	56	ATA2	19	5	1635	58.9190	-148.2255	279	2	BON051	CAT
RB13901.40	CTDB	60	57	ATA3	19	5	1753	58.8398	-148.2508	277	1	CTD060	Chlor, CTD, NutsCM; The 10m Nisken bottle did not trip
RB13901.41	20Bon	52	57	ATA3	19	5	1829	58.8360	-148.2450	277	2	BON052	QTowF
RB13901.42	60Bon	52	57	ATA3	19	5	1829	58.8360	-148.2450	277	2	BON052	QTowF, RCountL
RB13901.43	CAT	52	57	ATA3	19	5	1829	58.8360	-148.2450	277	2	BON052	CAT
RB13901.44	CTDB	61	58	ATA4	19	5	1930	58.7530	-148.2912	271	1	CTD061	Chlor, CTD, NutsCM; The 50m Niskin bottle did not trip.
RB13901.45	20Bon	53	58	ATA4	19	5	2004	58.7523	-148.2925	271	2	BON053	QTowF
RB13901.46	60Bon	53	58	ATA4	19	5	2004	58.7523	-148.2925	271	2	BON053	QTowF, RCountL
RB13901.47	CAT	53	58	ATA4	19	5	2004	58.7523	-148.2925	271	2	BON053	CAT
RB13901.48	CTDB	62	59	ATA5	19	5	2112	58.6663	-148.3318	280	1	CTD062	Chlor, CTD, NutsCM
RB13901.49	20Bon	54	59	ATA5	19	5	2146	58.6652	-148.3330	279	2	BON054	QTowF; Surface chlorophyll came from ships flowthrough system.
RB13901.50	60Bon	54	59	ATA5	19	5	2146	58.6652	-148.3330	279	2	BON054	QTowF; Surface chlorophyll came from ships flowthrough system.
RB13901.51	CAT	54	59	ATA5	19	5	2146	58.6652	-148.3330	279	2	BON054	CAT; Surface chlorophyll came from ships flowthrough system.
RB13901.52	CTDB	63	60	ATA6	19	5	2243	58.5802	-148.3733	522	1	CTD063	Chlor, CTD, NutsCM; DEPTH 0M FROM SHIP FLOW THRU
RB13901.53	20Bon	55	60	ATA6	19	5	2321	58.5782	-148.3762	526	2	BON055	QTowF

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB13901.54	60Bon	55	60	ATA6	19	5	2321	58.5782	-148.3762	526	2	BON055	QTowF, RCountL
RB13901.55	CAT	55	60	ATA6	19	5	2321	58.5782	-148.3762	526	2	BON055	CAT
RB14001.01	CTDB	64	61	ATA7	20	5	0025	58.4943	-148.4105	801	1	CTD064	Chlor, CTD, NutsCM; 30M BOTTLE MISFIREFD, DEPTH 0M
RB14001.02	20Bon	56	61	ATA7	20	5	0116	58.4932	-148.4085	800	2	BON056	QTowF; SEACAT FILE FOR THIS ACCI-DENTLY OVERWRITTEN WITH NEXT BONGO FILE (BON057)
RB14001.03	60Bon	56	61	ATA7	20	5	0116	58.4932	-148.4085	800	2	BON056	QTowF, RCountL; SEACAT FILE FOR THIS ACCIDENTLY OVERWRITTEN WITH NEXT BONGO FILE (BON057)
RB14001.04	CAT	56	61	ATA7	20	5	0116	58.4932	-148.4085	800	2	BON056	CAT; SEACAT FILE FOR THIS ACCIDENTLY OVERWRITTEN WITH NEXT BONGO FILE (BON057)
RB14001.05	CTDB	65	62	ATB7	20	5	0340	58.6015	-148.8110	125	1	CTD065	Chlor, CTD, NutsCM; depth 0 from ships flow thru system
RB14001.06	20Bon	57	62	ATB7	20	5	0408	58.6293	-148.8075	125	2	BON057	QTowF
RB14001.07	60Bon	57	62	ATB7	20	5	0408	58.6293	-148.8075	125	2	BON057	QTowF, RCountL
RB14001.08	CAT	57	62	ATB7	20	5	0408	58.6293	-148.8075	125	2	BON057	CAT
RB14001.09	CTDB	66	63	ATB6	20	5	0511	58.7225	-148.7600	240	1	CTD066	Chlor, CTD, NutsCM; depth 0 from ships flow thru
RB14001.10	20Bon	58	63	ATB6	20	5	0542	58.7188	-148.7528	240	2	BON058	QTowF
RB14001.11	60Bon	58	63	ATB6	20	5	0542	58.7188	-148.7528	240	2	BON058	QTowF, RCountL
RB14001.12	CAT	58	63	ATB6	20	5	0542	58.7188	-148.7528	240	2	BON058	CAT
RB14001.13	CTDB	67	64	ATB5	20	5	0653	58.8117	-148.7128	267	1	CTD067	Chlor, CTD, NutsCM; bottles at 30 and 40 did not fire, depth 0 from ships flow thru
RB14001.14	20Bon	59	64	ATB5	20	5	0724	58.8113	-148.7077	266	2	BON059	QTowF
RB14001.15	60Bon	59	64	ATB5	20	5	0724	58.8113	-148.7077	266	2	BON059	QTowF, RCountL
RB14001.16	CAT	59	64	ATB5	20	5	0724	58.8113	-148.7077	266	2	BON059	CAT
RB14001.17	CTDB	68	65	ATB4	20	5	0839	58.8990	-148.6640	273	1	CTD068	Chlor,CTD,NutsCM;filter not placed correctly 20m chlor.,water leaked. Depth 0m from flowthru
RB14001.18	20Bon	60	65	ATB4	20	5	0910	58.9007	-148.6573	273	2	BON060	QTowF
RB14001.19	60Bon	60	65	ATB4	20	5	0910	58.9007	-148.6573	273	2	BON060	QTowF, RCountL
RB14001.20	CAT	60	65	ATB4	20	5	0910	58.9007	-148.6573	273	2	BON060	CAT
RB14001.21	SatBuoy	11	65	ATB4	20	5	0936	58.9087	-148.6490	270	3	SAT011	Deploy; drifter #13132
RB14001.22	CTDB	69	66	ATB3	20	5	1019	58.9873	-148.6145	243	1	CTD069	Chlor, CTD, NutsCM; depth 0m chlor from ship flow thru
RB14001.23	20Bon	61	66	ATB3	20	5	1046	58.9895	-148.6072	243	2	BON061	QTowF
RB14001.24	60Bon	61	66	ATB3	20	5	1046	58.9895	-148.6072	243	2	BON061	QTowF, RCountL
RB14001.25	CAT	61	66	ATB3	20	5	1046	58.9895	-148.6072	243	2	BON061	CAT
RB14001.26	CTDB	70	67	ATB2	20	5	1154	59.0745	-148.5655	225	1	CTD070	Chlor, CTD, NutsCM; depth 0m chlor from ships flow thru
RB14001.27	20Bon	62	67	ATB2	20	5	1219	59.0767	-148.5578	220	2	BON062	QTowF
RB14001.28	60Bon	62	67	ATB2	20	5	1219	59.0767	-148.5578	220	2	BON062	QTowF, RCountL
RB14001.29	CAT	62	67	ATB2	20	5	1219	59.0767	-148.5578	220	2	BON062	CAT
RB14001.30	CTDB	71	68	ATB1	20	5	1323	59.1623	-148.5187	156	1	CTD071	Chlor, CTD, NutsCM
RB14001.31	20Bon	63	68	ATB1	20	5	1345	59.1628	-148.5117	153	2	BON063	QTowF
RB14001.32	60Bon	63	68	ATB1	20	5	1345	59.1628	-148.5117	153	2	BON063	QTowF, RCountL
RB14001.33	CAT	63	68	ATB1	20	5	1345	59.1628	-148.5117	153	2	BON063	CAT

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB14001.34	CTDB	72	69	ATC1	20	5	1620	59.0887	-149.1475	147	1	CTD072	Chlor, CTD, NutsCM
RB14001.35	20Bon	64	69	ATC1	20	5	1650	59.0920	-149.1337	150	2	BON064	QTowF
RB14001.36	60Bon	64	69	ATC1	20	5	1650	59.0920	-149.1337	150	2	BON064	QTowF, RCountL
RB14001.37	CAT	64	69	ATC1	20	5	1650	59.0920	-149.1337	150	2	BON064	CAT
RB14001.38	CTDB	73	70	ATC2	20	5	1809	58.9857	-149.1845	226	1	CTD073	Chlor, CTD, NutsCM
RB14001.39	20Bon	65	70	ATC2	20	5	1835	58.9863	-149.1757	227	2	BON065	QTowF
RB14001.40	60Bon	65	70	ATC2	20	5	1835	58.9863	-149.1757	227	2	BON065	QTowF, RCountL
RB14001.41	CAT	65	70	ATC2	20	5	1835	58.9863	-149.1757	227	2	BON065	CAT
RB14001.42	CTDB	74	71	ATC3	20	5	1936	58.9342	-149.2010	221	1	CTD074	Chlor, CTD, NutsCM
RB14001.43	20Bon	66	71	ATC3	20	5	2004	58.9370	-149.1960	221	2	BON066	QTowF
RB14001.44	60Bon	66	71	ATC3	20	5	2004	58.9370	-149.1960	221	2	BON066	QTowF, RCountL
RB14001.45	CAT	66	71	ATC3	20	5	2004	58.9370	-149.1960	221	2	BON066	CAT
RB14001.46	CTDB	75	72	ATC4	20	5	2102	58.8822	-149.2173	206	1	CTD075	Chlor, CTD, NutsCM; DEPTH 0M BOTTLE MISFIRED
RB14001.47	20Bon	67	72	ATC4	20	5	2127	58.8842	-149.2145	206	2	BON067	QTowF; FLOWMETERS SPINNING IN WIND
RB14001.48	60Bon	67	72	ATC4	20	5	2127	58.8842	-149.2145	206	2	BON067	QTowF, RCountL; FLOWMETERS SPINNING IN WIND
RB14001.49	CAT	67	72	ATC4	20	5	2127	58.8842	-149.2145	206	2	BON067	CAT; FLOWMETERS SPINNING IN WIND
RB14001.50	CTDB	76	73	ATC5	20	5	2242	58.7805	-149.2517	182	1	CTD076	Chlor, CTD, NutsCM; DEPTH 0M CHLOR FROM SHIP FLOW THRU
RB14101.01	CTDB	77	74	ATC6	21	5	0015	58.6775	-149.2860	133	1	CTD077	Chlor, CTD, NutsCM
RB14101.02	CTDB	78	75	ATD5	21	5	1421	58.6372	-149.6458	135	1	CTD078	Chlor, CTD, NutsCM
RB14101.03	20Bon	68	75	ATD5	21	5	1445	58.6392	-149.6367	135	2	BON068	QTowF
RB14101.04	60Bon	68	75	ATD5	21	5	1445	58.6392	-149.6367	135	2	BON068	L-Oto, QTowF, RCountJ
RB14101.05	CAT	68	75	ATD5	21	5	1445	58.6392	-149.6367	135	2	BON068	CAT
RB14101.06	CTDB	79	76	ATD4	21	5	1625	58.7757	-149.5987	204	1	CTD079	Chlor, CTD, NutsCM
RB14101.07	20Bon	69	76	ATD4	21	5	1650	58.7790	-149.5923	205	2	BON069	QTowF
RB14101.08	60Bon	69	76	ATD4	21	5	1650	58.7790	-149.5923	205	2	BON069	QTowF, RCountL
RB14101.09	CAT	69	76	ATD4	21	5	1650	58.7790	-149.5923	205	2	BON069	CAT
RB14101.10	CTDB	80	77	ATD3	21	5	1815	58.9107	-149.5450	243	1	CTD080	Chlor, CTD, NutsCM; 50M BOTTLE DID NOT TRIP, 0M CHLOR FROM FLOW THRU
RB14101.11	20Bon	70	77	ATD3	21	5	1839	58.9123	-149.5398	243	2	BON070	QTowF
RB14101.12	60Bon	70	77	ATD3	21	5	1839	58.9123	-149.5398	243	2	BON070	QTowF, RCountL
RB14101.13	CAT	70	77	ATD3	21	5	1839	58.9123	-149.5398	243	2	BON070	CAT
RB14101.14	CTDB	81	78	ATD2	21	5	2000	59.0428	-149.4922	229	1	CTD081	Chlor, CTD, NutsCM; 30M BOTTLE MISFIRED
RB14101.15	20Bon	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	QTowF; 20BON NET 1 NOT USABLE. NET 2 IS PRIMARY NET
RB14101.16	20Bon	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	QTowF; 20BON NET 1 NOT USABLE. NET 2 IS PRIMARY NET
RB14101.17	60Bon	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	L-Oto, QTowF, RCountL
RB14101.18	CAT	71	78	ATD2	21	5	2020	59.0440	-149.4892	230	2	BON071	CAT
RB14101.19	CTDB	82	79	ATD1	21	5	2137	59.1758	-149.4405	137	1	CTD082	Chlor, CTD, NutsCM
RB14101.20	20Bon	72	79	ATD1	21	5	2158	59.1770	-149.4387	137	2	BON072	QTowF
RB14101.21	60Bon	72	79	ATD1	21	5	2158	59.1770	-149.4387	137	2	BON072	QTowF, RCountL
RB14101.22	CAT	72	79	ATD1	21	5	2158	59.1770	-149.4387	137	2	BON072	CAT
RB14201.01	CTDB	83	80	ATE1	22	5	0019	59.1223	-150.0628	151	1	CTD083	Chlor, CTD, NutsCM
RB14201.02	20Bon	73	80	ATE1	22	5	0045	59.1227	-150.0610	151	2	BON073	QTowF
RB14201.03	60Bon	73	80	ATE1	22	5	0045	59.1227	-150.0610	151	2	BON073	QTowF, RCountL

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB14201.04	CAT	73	80	ATE1	22	5	0045	59.1227	-150.0610	151	2	BON073	CAT
RB14201.05	CTDB	84	81	ATE2	22	5	0147	59.0158	-150.0878	205	1	CTD084	Chlor, CTD, NutsCM; 10M BOTTLE D, FROM SHIP FL
RB14201.06	20Bon	74	81	ATE2	22	5	0213	59.0322	-150.0862	204	2	BON074	QTowF
RB14201.07	60Bon	74	81	ATE2	22	5	0213	59.0322	-150.0862	204	2	BON074	L-Oto, QTowF, RCountL
RB14201.08	CAT	74	81	ATE2	22	5	0213	59.0322	-150.0862	204	2	BON074	CAT
RB14201.09	CTDB	85	82	ATE3	22	5	0338	58.9423	-150.1142	211	1	CTD085	Chlor, CTD, NutsCM; 0M SAMPLE FROM SHIP FLOW THRU SYSTEM
RB14201.10	20Bon	75	82	ATE3	22	5	0403	58.9423	-150.1122	211	2	BON075	Discard;FAILED TOW ALL NETS.WIRE ANGLE VERTICAL.TERMINATED AND REPEATED.FLOW & TIME DUMMIED FROM REPEAT TOW (82-3).
RB14201.11	20Bon	76	82	ATE3	22	5	0419	58.9425	-150.0988	216	3	BON076	QTowF
RB14201.12	60Bon	76	82	ATE3	22	5	0419	58.9425	-150.0988	216	3	BON076	QTowF, RCountL
RB14201.13	CAT	76	82	ATE3	22	5	0419	58.9425	-150.0988	216	3	BON076	CAT
RB14201.14	CTDB	86	83	ATE4	22	5	0535	58.8518	-150.1373	172	1	CTD086	Chlor, CTD, NutsCM
RB14201.15	20Bon	77	83	ATE4	22	5	0559	58.8515	-150.1345	172	2	BON077	QTowF
RB14201.16	60Bon	77	83	ATE4	22	5	0559	58.8515	-150.1345	172	2	BON077	QTowF, RCountL
RB14201.17	CAT	77	83	ATE4	22	5	0559	58.8515	-150.1345	172	2	BON077	CAT
RB14201.18	CTDB	87	84	ATX2	22	5	0832	58.9090	-149.5475	252	1	CTD087	Chlor, CTD, NutsCM; DEPTH 0 FROM FLOW THRU
RB14201.19	CTDB	88	85	ATX3	22	5	1014	58.9353	-149.1977	219	1	CTD088	Chlor, CTD, NutsCM
RB14201.20	CTDB	89	86	ATX4	22	5	1225	58.8993	-148.6643	272	1	CTD089	Chlor, CTD, NutsCM; DEPTH 0M FROM FLOW THRU
RB14201.21	CTDB	90	87	ATX5	22	5	1422	58.8372	-148.2483	275	1	CTD090	Chlor, CTD, NutsCM; DEPTH 0M FROM FLOW THRU
RB14201.22	CTDB	91	88	GAK9	22	5	1515	58.6790	-148.3492	279	1	CTD091	Chlor, CTD, NutsCM; 0M SAMPLE TAKEN FROM SHIP FLOW THRU
RB14201.23	CalVET	50	88	GAK9	22	5	1627	58.6790	-148.3492	279	2	CAL050	Other, QTowF
RB14201.24	CalVET	50	88	GAK9	22	5	1627	58.6790	-148.3492	279	2	CAL050	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.25	20Bon	78	88	GAK9	22	5	1634	58.6802	-148.3473	280	3	BON078	QTowF
RB14201.26	60Bon	78	88	GAK9	22	5	1634	58.6802	-148.3473	280	3	BON078	QTowF, RCountL
RB14201.27	CAT	78	88	GAK9	22	5	1634	58.6802	-148.3473	280	3	BON078	CAT
RB14201.28	CTDB	92	89	GAK8	22	5	1808	58.7915	-148.4897	294	1	CTD092	Chlor, CTD, NutsCM; 0M FROM SHIP FLOW THRU SYSTEM
RB14201.29	CalVET	51	89	GAK8	22	5	1839	58.7915	-148.4897	292	2	CAL051	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.30	20Bon	79	89	GAK8	22	5	1846	58.7928	-148.4885	294	3	BON079	QTowF
RB14201.31	60Bon	79	89	GAK8	22	5	1846	58.7928	-148.4885	294	3	BON079	QTowF, RCountL
RB14201.32	CAT	79	89	GAK8	22	5	1846	58.7928	-148.4885	294	3	BON079	CAT
RB14201.33	CTDB	93	90	GAK7I	22	5	1948	58.9650	-148.5598	304	1	CTD093	Chlor, CTD, NutsCM; CAST 1 OF 2. MIXED LAYER BOTTLES (0-40M) NOT CLOSED PROPERLY. CAST REPEATED FOR MISSED BOTTLES
RB14201.34	CalVET	52	90	GAK7I	22	5	2022	58.8828	-148.5615	303	2	CAL052	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.35	CTDB	94	90	GAK7I	22	5	2035	58.8832	-148.5625	303	3	CTD094	Chlor, CTD, NutsCM; CAST 2 OF 2.
RB14201.36	SatBuoy	12	90	GAK7I	22	5	2051	58.8857	-148.5657	302	4	SAT012	Deploy; #13129

Appendix I: Event Log (cont'd)

Event#	Instr	Cast	Sta	Sta std	Day	Mos	Time	Lat	Long	Water Depth	Haul	Sta alt	Comments
RB14201.37	CTDB	95	91	GAK7	22	5	2126	58.9722	-148.6292	246	1	CTD095	Chlor, CTD, NutsCM; DEEP MIXED LAYER BETWEEN 50 AND
RB14201.38	CalVET	54	91	GAK7	22	5	2159	58.9732	-148.6302	247	2	CAL054	Other, QTowF; COMBINE NETS 1 AND 2
RB14201.39	20Bon	80	91	GAK7	22	5	2205	58.9745	-148.6283	247	3	BON080	QTowF
RB14201.40	60Bon	80	91	GAK7	22	5	2205	58.9745	-148.6283	247	3	BON080	QTowF, RCountL
RB14201.41	CAT	80	91	GAK7	22	5	2205	58.9745	-148.6283	247	3	BON080	CAT
RB14201.42	CTDB	96	92	GAK6I	22	5	2312	59.0618	-148.6985	184	1	CTD096	Chlor,CTD,NutsCM;0M SAMPLE FROM FLOWTHRU;SAMPLE VOL FOR 15M REPS 15M-1(283ML);15M-2(283ML);15M-3(285ML)
RB14201.43	CalVET	55	92	GAK6I	22	5	2339	59.0618	-148.6983	184	2	CAL055	Other, QTowF; COMBINE NETS 1 AND 2
RB14301.01	CTDB	97	93	GAK6	23	5	0023	59.1170	-148.7695	184	1	CTD097	Chlor, CTD, NutsCM
RB14301.02	CalVET	56	93	GAK6	23	5	0051	59.1172	-148.7695	155	2	CAL056	Other, QTowF; COMBINE NETS 1 AND 2
RB14301.03	20Bon	81	93	GAK6	23	5	0056	59.1177	-148.7692	155	3	BON081	QTowF
RB14301.04	60Bon	81	93	GAK6	23	5	0056	59.1177	-148.7692	155	3	BON081	QTowF, RCountL
RB14301.05	CAT	81	93	GAK6	23	5	0056	59.1177	-148.7692	155	3	BON081	CAT
RB14301.06	CTDB	98	94	GAK5	23	5	0222	59.2630	-148.9080	171	1	CTD098	Chlor, CTD, NutsCM; 30M BOTTLE(BOTTLE #9) DIDN?T FIRE
RB14301.07	CalVET	57	94	GAK5	23	5	0250	59.2632	-148.9077	172	2	CAL057	Other, QTowF; COMBINE NETS 1 AND 2
RB14301.08	20Bon	82	94	GAK5	23	5	0258	59.2635	-148.9072	171	3	BON082	QTowF
RB14301.09	60Bon	82	94	GAK5	23	5	0258	59.2635	-148.9072	171	3	BON082	QTowF, RCountL
RB14301.10	CAT	82	94	GAK5	23	5	0258	59.2635	-148.9072	171	3	BON082	CAT
RB14301.11	SatBuoy	13	95	ATE5	23	5	0642	58.8050	-149.9213	206	1	SAT013	Deploy; # 13136