

Event No.	Date (GMT) mm/dd/yy	Start GMT (hhmm)	End Time (hhmm)	Lat deg. (N)	Lat minute (dd.dd)	Lon deg. (W)	Lon minute (dd.dd)	Grid/Station/Floe ID	Water depth (m)	Event Description Gear/Cast No./NMML Op. No	Samples Taken	Comment
1	4/12/2006	2212		57	47.00	152	20.90			Depart Kodiak AK		
2	4/13/2006	2230	0431	56	31.38	156	56.16			Bird Observations		
3	4/14/2006	2050	0500	54	52.14	162	40.00			Bird Observations		
4	4/15/2006	1910		56	46.12	164	20.20			AC1 test	AC (Eisner)	CTD cast failure a cast numb
5	4/15/2006	1939		56	46.12	164	20.20		75	BON001 20&60cm	20/60 QtowF, plankton	0.333 & 0.153 r
6	4/15/2006	1945	0517	56	47.34	164	20.46			Bird Observations		
7	4/15/2006	2019		56	46.46	164	20.88	M2S	75	BON002	20/60 QtowF, plankton	
8	4/15/2006	2219	2219	56	54.00	164	3.00	M2	75	CTD001	nuts,chl,HPLC,size-frac chl, epi phyt spp.	
9	4/15/2006	2249		56	53.96	164	2.64	M2	72	BON003	20/60 QtowF, plankton	
10	4/15/2006	2332		56	53.93	164	2.53	M2/B52	71	CalVET001	20/60 QtowF, plankton	
11	4/15/2006	2355		56	53.94	164	2.53	M2/B52	75	CalVET002	20/60 QtowF, plankton	
12	4/16/2006	0014		56	53.94	164	2.53	M2/B52	72	CalVET003	20/60 QtowF, plankton	
13	4/16/2006	0114	0200	56	40.01	163	52.06	M2S	77	CTD002	nuts, chl	
14	4/16/2006	0254		56	39.91	163	51.79	M2S	77	BON004	20/60 QtowF, plankton	
15	4/16/2006	1649	0436	57	44.50	163	53.85		51	Bird Observations		
16	4/16/2006	1809		57	49.99	163	56.07		51	CTD003	nuts,chl,HPLC,size-frac chl, epi phyt spp.	Ice edge in e:
17	4/16/2006	1830		57	49.80	163	56.03	ice	50	BON005	20/60 QtowF, plankton	In ice, slush in
18	4/16/2006	2200		57	49.04	164	16.57	T201/A101	50	CTD004	nuts,chl,HPLC,size-frac chl, epi phyt spp.	ice
19	4/16/2006	2345		57	49.01	164	15.04	T202/A102	53	CTD005	nuts,chl,HPLC,size-frac chl, epi phyt spp.	
20	4/17/2006	0007		57	40.91	164	15.20	T202/A102	52	BON006	20/60 QtowF, plankton	
21	4/17/2006	0201		57	31.01	164	14.99	T203/A103	57	CTD006	nuts,chl,HPLC,size-frac chl, epi phyt spp.	
22	4/17/2006	0221		57	30.92	164	15.18	T203/A103	55	BON007	20/60 QtowF, plankton	
23	4/17/2006	0458		57	21.03	164	14.95	T204/A104	65	CTD007	nuts,chl,HPLC,size-frac chl, epi phyt spp.	touched bottr
24	4/17/2006	0536		57	20.94	164	14.94	T205/A105	66	BON008	20/60 QtowF, plankton	

25	4/17/2006	0834		57	11.15	164	14.97	T205/ A105	70	CTD008	nuts, chl	
26	4/17/2006	0905		57	10.76	164	14.95	T205/ A105	70	BON009	20/60 QtowF, plankton	
27	4/17/2006	1111		57	0.95	164	12.85	M2N	70	CTD009	nuts, chl	
28	4/17/2006	1158		57	0.88	164	13.71	M2N	70	BON010	20/60 QtowF, plankton	
29	4/17/2006	1424		56	56.63	163	49.79	M2E	70	CTD010	nuts, chl	
30	4/17/2006	1453		56	56.00	163	49.48	M2E	70	BON011	20/60 QtowF, plankton	
31	4/17/2006	1554	2112	56	58.95	164	2.19		71	Bird Observations		
32	4/18/2006	1622	0511	57	49.07	168	14.30		71	Bird Observations		
33	4/18/2006	1910		57	46.04	168	29.97	M4E	72	CTD011	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod	
34	4/18/2006	1930	0245	57	46.04	168	29.97			Seal Observations NMML Op. 81-seal		
35	4/18/2006	2239		57	39.16	169	1.16	M4S	70	CTD012	nuts, chl	
36	4/18/2006	2300		57	39.19	169	1.34	M4S	75	BON012	20/60 QtowF, plankton	
37	4/19/2006	0141		57	55.61	169	19.68	M4W	75	CTD013	nuts, chl	
38	4/19/2006	0201		57	55.65	168	20.12	M4W	72	BON013		
39	4/19/2006	0425		57	49.01	168	48.99	M4	72	CTD014	nuts,chl,HPLC,size-frac chl, epi phyt spp., QFT	
40	4/19/2006	0444		57	49.09	168	49.15	M4	72	BON014	20/60 QtowF, plankton	
41	4/19/2006	0527		57	49.11	168	49.13	M4	72	CALVET004	20/60 QtowF, plankton	
42	4/19/2006	0552		57	49.18	168	49.01	M4	72	CALVET005	20/60 QtowF, plankton	
43	4/19/2006	0611		57	49.23	168	49.03	M4	72	CALVET006	20/60 QtowF, plankton	
44	4/19/2006	0833		58	3.98	168	43.62	M4N	72	CTD015	nuts, chl	
45	4/19/2006	0856		58	5.26	168	43.64	M4N	72	BON015	20/60 QtowF, plankton	
46	4/19/2006	1631	0010	58	18.83	168	46.20			Bird Observations		
47	4/19/2006	1649		58	15.60	168	45.99	B1H1	70	BON016	20/60 QtowF, plankton	
48	4/19/2006	1721		58	15.35	168	46.17	B1H1	70	CTD016	nuts, chl	
49	4/19/2006	1826		58	24.72	168	46.50	B1H2	69	CTD017	nuts,chl,HPLC,size-frac chl, epi phyt spp. whole phyt spp., QFT	
50	4/19/2006	1914		58	25.00	168	47.80	B1H2	68	BON018	20/60 QtowF, plankton	Flow Meters Fr Antifreeze ad
51	4/19/2006			58	25.00	168	47.80	B1H2		BON017		SeaCAT froze,
52	4/20/2006	0343		58	23.08	168	43.03	B2H1	68	CTD018	Filter on AC9, No samples taken	

53	4/20/2006	0405		58	23.16	168	43.03	B2H2	68	CTD019	nuts,chl,HPLC,size-frac chl, epi phyt spp. whole phyt spp., QFT	
54	4/20/2006	0631		58	15.69	168	53.38	B2H3	70	CTD020	nuts, chl, Lugols, whole phyto spp,epi phyt spp.	
55	4/20/2006	0822		58	9.59	168	8.01	B2H3	73	CTD021	nuts, chl, Lugols, whole phyto spp,	
56	4/20/2006	0912		58	9.88	169	8.18	B2H3	72	BON020	20/60 QtowF, plankton	
57	4/20/2006	1115		58	3.13	169	22.39	B2H4	72	CTD022	nuts,chl,HPLC,size-frac chl, epi phyt spp. whole phyt spp., QFT	
58	4/20/2006	1800	0554	57	58.92	168	52.56			Bird Observations	nuts, chl, Lugols, epi phyt spp.	
59	4/20/2006	2231	0020							Seal Observations NMML Op. 82	nuts, chl, Lugols, whole phyto spp?,	
60	4/21/2006	0044		58	46.96	169	37.06	C1H1	66	CTD023	nuts,chl,HPLC,size-frac chl, epi phyt spp., Lugols, P prod	
61	4/21/2006	0118		58	46.74	169	38.66	C1H1	66	BON021	20/60 QtowF, plankton	
62	4/21/2006	0200	0330	58	46.00	169	39.00			Test Zodiac Boats	n/a	Problem with er and keel of o Zodiac
63	4/21/2006	0428	0550	58	46.00	169	39.00			Seal Observations NMML Op. 60-seal		
64	4/21/2006	1558	2055	58	46.00	169	39.00			Bird Observations		
65	4/21/2006	1056		57	58.93	169	39.93	B2H5	72	CTD024	nuts, chl, epi phyt spp.	
66	4/21/2006	1415		57	52.00	169	56.03	B3H6	73	CTD025	nuts, chl, epi phyt spp.	
67	4/21/2006	2208	2259	57	52.45	169	53.13			Bird Observations		
68	4/21/2006	1656		57	52.18	169	56.23		74	BON022	20/60 QtowF, plankton	
69	4/21/2006	2115		57	55.98	168	28.05	B3H1	71	CTD026	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod	No ice
70	4/21/2006	2142		57	56.10	168	28.40	B3H1	72	BON023	20/60 QtowF, plankton	No ice
71	4/21/2006	2338		58	5.98	168	27.97	B3H2	71	CTD027	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod	No ice
72	4/21/2006	2338		58	6.12	168	28.25	B3H2	71	BON024	20/60 QtowF, plankton	No ice
73	4/22/2006	0127		58	17.36	168	28.39	B3H3	70	CTD028	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod	
74	4/22/2006	0206		58	16.41	168	30.72	B3H3	70	BON025	20/60 QtowF, plankton	
75	4/21/2006	0220	0530	58	58.47	168	54.15			Bird Observations	20/60 QtowF, plankton	

76	4/22/2006	0255	0532	58	58.47	168	54.15			Seal Observations NMML Op. 83		
77	4/22/2006	0552		58	22.42	168	53.81			Drifter Deployment	DR #57875	
78	4/22/2006	1554		58	36.75	170	1.71	C2H1	76	CTD029	nuts,chl, epi phyto spp.	Ice edge
79	4/22/2006	1629		58	35.60	170	1.17	C2H1	70	BON026	20/60 QtowF, plankton	
80	4/22/2006	1647	1907	58	35.05	170	1.43		67	Bird Observations		Ice edge
81	4/22/2006	1706	1800	58	35.05	170	1.43		67	Seal Observations NMML Op. 84		Ice edge
82	4/22/2006	2302		58	28.84	170	59.35	C3H1	72	CTD030	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod	Ice edge
83	4/22/2006	2326		58	29.61	170	59.70	C3H1	72	BON027	20/60 QtowF, plankton	Ice edge
84	4/22/2006	2344	0503	58	29.40	169	58.76			Bird Observations		
85	4/23/2006	0003	0501	58	30.00	170	5.00			Seal Observations NMML Op. 80		
86	4/23/2006	0315		58	23.95	170	23.33	C4H1	76	CTD031	nuts,chl, epi phyto spp.,dissolved	
87	4/23/2006	0334		58	23.65	170	23.68	C4H1	76	BON028	20/60 QtowF, plankton	
88	4/23/2006	0652		58	26.63	170	24.69	C4H2	76	CTD032	nuts,chl, epi phyto spp.,dissolved	
89	4/23/2006	0712		58	16.58	170	25.14	C4H2	76	BON029	20/60 QtowF, plankton	
90	4/23/2006	0812		58	12.97	170	24.29	C4H3	77	CTD033	nuts,chl, epi phyto spp.,dissolved	
91	4/23/2006	0837		58	13.13	170	25.16	C4H3	77	BON030	20/60 QtowF, plankton	
92	4/23/2006	0958		58	8.11	170	23.98	C4H4	77	CTD034	nuts,chl, epi phyto spp.	
93	4/23/2006	1020		58	8.34	170	24.34	C4H4	78	BON031	20/60 QtowF, plankton	
94	4/23/2006	1142		58	3.02	170	23.83	C4H5	77	CTD035	nuts,chl, epi phyto spp.	
95	4/23/2006	1202		58	3.18	170	20.06	C4H5	77	BON032	20/60 QtowF, plankton	
96	4/23/2006	1320		57	58.01	170	23.79	C4H6	77	CTD036	nuts,chl, epi phyto spp.	
97	4/23/2006	1342		57	58.28	170	24.08	C4H6	77	BON033	20/60 QtowF, plankton	
98	4/23/2006	1620		58	9.49	170	20.80	C4H7	76	CTD037	Filter on AC9, No samples taken	First cast at P1 Station, filter on
99	4/23/2006	1630		58	9.50	170	20.90	C4H7	76	CTD038	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod, QFT, Dissolved	Second cast for station
100	4/23/2006	1744		58	12.05	170	18.81	C4H8	76	BON034	20/60 QtowF, plankton	
101	4/23/2006	1811		58	11.76	170	19.50	C4H8	76	CTD039	nuts,chl,HPLC,size-frac chl, epi phyt spp., P prod	
102	4/23/2006	1825		58	11.76	170	19.50	C4H8	76	Tuck001	Test of Tucker trawl	Trawl needed
103	4/23/2006	1947	0204	58	10.86	170	19.88			Bird Observations		

104	4/23/2006	1950	0443							Seal Observations NMML Op. 100		
105	4/23/2006	2250	2330	58	25.78	171	3.56	C5X1	88	Test zodiak	n/a	Engine and keel all OK
106	4/24/2006	0028		58	26.47	171	3.15	C5H1	86	CTD040	nuts,chl,HPLC,size-frac chl, epi phyt spp.	
107	4/24/2006	0049		58	26.61	171	3.66	C5H1	86	BON035	20/60 QtowF, plankton	
108	4/24/2006	0200	0330	58	25.00	171	15.40			Seal capture operation	n/a	
109	4/24/2006	0330	0400	58	24.99	171	15.40	c6x1	90	ice chunks collected	Surface Ice collected on small boat trial	
110	4/24/2006	0457		58	24.30	171	18.14	C6H1	92	CTD041	nuts,chl, epi phyt spp.	
111	4/24/2006	0514		58	24.27	171	18.55	C6H1	92	BON036	20/60 QtowF, plankton	
112	4/24/2006	0617		58	21.66	171	21.84	C6H2	93	CTD042	nuts,chl, epi phyt spp.	
113	4/24/2006	0701		58	21.48	171	23.13	C6H2	93	BON037	20/60 QtowF, plankton	
114	4/24/2006	0810		58	17.77	171	27.95	C6H3	96	CTD043	nuts,chl, epi phyt spp.	
115	4/24/2006	0830		58	17.85	171	28.29	C6H3	96	BON038	20/60 QtowF, plankton	
116	4/24/2006	0958		58	13.44	171	33.90	C6H4	100	CTD044	nuts,chl, epi phyt spp.	
117	4/24/2006	1022		58	13.70	171	33.84	C6H4	100	BON039	20/60 QtowF, plankton	
118	4/24/2006	1156		58	10.06	171	40.13	C6H5	100	CTD045	nuts,chl, epi phyt spp.	
119	4/24/2006	1214		58	9.80	171	40.25	C6H5	100	BON040	20/60 QtowF, plankton	
120	4/24/2006	1348		58	6.17	171	45.92	C6H6	102	CTD046	nuts,chl, epi phyt spp.	
121	4/24/2006	1601		58	17.72	171	27.64	C7H1	96	CTD047	Filter on AC9, No samples taken	First cast for P Station Filter on
122	4/24/2006	1609		58	17.71	171	27.58	C7H1	96	CTD048	nuts,chl,HPLC,size-frac chl, epi phyt spp., QFT, Dissolved	Second cast at station
123	4/24/2006	1631	0431	58	17.68	171	25.88			Bird Observations		
124	4/24/2006	1829		58	23.73	171	0.83	C7H2	85	CTD049	nuts,chl,HPLC,size-frac chl, whole phyto spp., Lugols, epi phyt spp., Dissolved	
125	4/24/2006	1855		58	23.56	171	0.75	C7H2	85	BON042	20/60 QtowF, plankton	
126	4/24/2006	1935	2323	58	28.00	171	5.00			Seal Observations NMML Op. 129-seal		
127	4/24/2006	2000	2230	58	26.50	171	4.07			Seal capture operation	Spotted: AF-Scat; PM-SPOT	
128	4/24/2006	2237		58	28.98	171	5.18	C8H1	87	CTD050	nuts,chl,HPLC,size-frac chl, epi phyt spp., QFT, Dissolved	Ice breaking up i weather- No bc
129	4/24/2006			58	5.96	171	46.00	C6H6	102	BON041	20/60 QtowF, plankton	

130	4/25/2006	1011		58	57.78	171	59.83	C7H7	106	CTD051	nuts,chl, phyto spp., slides, Lugols	Snow storn
131	4/25/2006	1935	2320	58	28.00	171	5.00			Bird Observations		
132	4/27/2006	0132	0450	58	34.62	171	38.58			Bird Observations		
133	4/27/2006	0325	0444	58	45.00	171	28.00			Seal Observations NMML Op. 142		Down for major
134	4/27/2006	0523		58	44.80	171	35.40			Drifter deployed	DR # 57873	
135	4/27/2006	0705		58	36.48	171	46.61	D1H1	98	CTD052	Filter on AC9, No samples taken	First cast -filte AC9
136	4/27/2006	0717		58	36.46	171	46.70	D1H1	97	CTD053	nuts,chl,HPLC,size-frac chl, epi phyt spp., QFT, Dissolved	Cast without fi
137	4/27/2006	0735		58	36.77	171	47.07	D1H1	97	BON043	20/60 QtowF, plankton	
138	4/27/2006	0837		58	37.20	171	46.80	D1H2		Drifter deployed	DR # 57868	
139	4/27/2006	1006		58	28.20	171	58.23	D1H2	101	CTD054	Filter on AC9, No samples taken	First cast -filte AC9
140	4/27/2006	1022		58	58.24	171	57.82	D1H2	101	CTD055	nuts,chl, dissolved	Cast without fi
141	4/27/2006	1546		58	41.93	171	41.75	D1H3	96	CTD056	nuts,chl,HPLC,size-frac chl, epi phyt spp., whole phyt spp., P prod, Dissolved	
142	4/27/2006	1620		58	41.28	171	42.23	D1H3	94	BON044	20/60 QtowF, plankton	
143	4/27/2006	1700		58	40.69	171	44.17			Bird Observations		
144	4/27/2006	1711	0304	58	40.69	171	44.17			Seal Observations NMML Op. 143		
145	4/27/2006	1903		58	40.99	171	32.31	D1H4	94	CTD057	nuts,chl,HPLC,size-frac chl, epi phyt spp., QFT, P prod, Dissolved	
146	4/27/2006	2130	2359	58	36.00	171	20.00			Seal capture operation NMML Op. 145	Ribbon: AM-SPOT. Spotted: YF- SPOT & SPLASH	
147	4/28/2006	0032		58	34.95	171	20.20	D1H5	94	CTD058	nuts,chl, size-frac chl, epi phyt spp., QFT, Dissolved	
148	4/28/2006	0055		58	34.75	171	20.50	D1H5	90	BON045	20/60 QtowF, plankton	
149	4/28/2006	0321		58	34.28	171	31.04	D2H1	95	CTD059	nuts,chl, epi phyt spp.	
150	4/28/2006	0540		58	34.37	171	31.42	D2H1	94	BON046	20/60 QtowF, plankton	
151	4/28/2006	0727		58	27.99	171	44.83	D2H2	101	CTD060	nuts,chl, epi phyt spp.	
152	4/28/2006	0748		58	28.04	171	45.61	D2H2	100	BON047	20/60 QtowF, plankton	
153	4/28/2006	0921		58	21.98	171	57.30	D2H3	103	CTD061	nuts,chl, epi phyt spp.	
154	4/28/2006	0941		58	21.87	171	57.97	D2H3	102	BON048	20/60 QtowF, plankton	
155	4/28/2006	1114		58	15.99	172	9.67	D2H4	105	CTD062	nuts,chl, epi phyt spp.	

156	4/28/2006	1135		58	15.93	172	10.13	D2H4	105	BON049	20/60 QtowF, plankton	
157	4/28/2006	1308		58	10.00	172	21.92	D2H5	107	CTD063	nuts,chl, epi phyt spp.	
158	4/28/2006	1325		58	10.15	172	22.27	D2H5	107	BON050	20/60 QtowF, plankton	
159	4/28/2006	2049		58	8.11	170	38.92	SPW	74	CTD064	nuts,chl,HPLC,size-frac chl, epi phyt spp., QFT, Dissolved	
160	4/28/2006	2113		58	8.19	170	39.67	SPW	76	BON051	20/60 QtowF, plankton	
161	4/29/2006	0000	0200	57	7.50	170	18.30			Small Boat Ops, St. Paul	Debark/embark personnel	
162	4/29/2006	1653		58	19.20	172	35.27	D3H1	108	CTD065	salt,nuts,chl,HPLC,size-frac chl, epi-phyt spp., QFT, P prod	at ice edge
163	4/29/2006	1712		58	19.16	172	35.47			Bird Observations		
164	4/29/2006	1718		58	19.14	172	35.87	D3H1	108	BON052	20/60 QtowF, plank	crab larvae + c
165	4/29/2006	1745	1850	58	19.16	172	35.65			Bird Observations		
166	4/29/2006	1750	0500	58	18.91	172	35.74			Seal Observations NMML Op. 166		
167	4/29/2006	1930	2140	58	20.44	172	38.02	D3H1	108	ice cores	Chl, Sal, Temp, Nut	3 cores
168	4/29/2006	2220	2230	58	20.03	172	38.86	D3H2	108	CTD066	Filter on AC9, No samples taken	
169	4/29/2006	2234	2238	58	20.03	172	38.86	D3H2	108	CTD067	salt,nuts,chl,HPLC,size-frac chl, epi-phyt spp., QFT, P prod	at ice edge
170	4/29/2006	2258		58	19.80	172	39.69	D3H2	108	BON053	20/60 bongo	
171	4/29/2006	2315	0510	58	19.80	172	39.69			Bird Observations		
172	4/30/2006	0528		58	31.53	172	29.50	D4H1	124	CTD068	nuts,chl, epi phyt spp.	Behind ice in l
173	4/30/2006	0547		58	31.65	172	29.94	D4H1	125	BON054	20/60 QtowF, plank	
174	4/30/2006	0752		58	28.19	172	34.28	D4H2	123	CTD069	nuts,chl, epi phyt spp.	Sta moved - an strip of ice
175	4/30/2006	0811		58	22.44	172	34.24	D4H2	123	BON055	20/60 QtowF, plank	
176	4/30/2006	0959		58	23.95	172	40.07	D4H3	122	CTD070	nuts,chl, epi phyt spp.	Ice very clos
177	4/30/2006	1024		58	24.28	172	40.36	D4H3	122	BON056	20/60 QtowF, plank	
178	4/30/2006	1222		58	16.98	172	56.05	D4H4	125	CTD071	nuts,chl, epi phyt spp.	Ice very clos
179	4/30/2006	1236		58	17.17	172	55.95	D4H4	125	BON057	20/60 QtowF, plank	
180	4/30/2006	1355		58	13.49	172	2.41	D4H5	128	CTD072	nuts,chl, epi phyt spp.	Ice very clos
181	4/30/2006	1409		58	13.50	172	2.67	D4H5	128	BON058	20/60 QtowF, plank	
182	4/30/2006	1722		58	27.65	172	34.70	D4H2	122	TUCK001	20/60 QtowF, plank	crab larvae se
183	4/30/2006	1753		58	27.77	172	34.75	D4H2	122	TUCK002	20/60 QtowF, plank	crab larvae se
184	4/30/2006	1825		58	27.87	173	34.86	D4H2	123	CTD073	Absorption	D4H2

185	4/30/2006	1838		58	27.94	173	35.17	D4H2	123	CTD074	Chl,T,S,Nuts, size-frac chl, epi phyt spp., QFT, Pprod, DIC/Alk	
186	4/30/2006	1915		58	27.49	173	36.37	D4H2	123	BON059	20/60 QtowF, Plank	
187	4/30/2006	1945	0053	58	27.49	173	36.37			Bird Observations		
188	4/30/2006	2153		58	26.48	173	40.97	D4H2	123	ice cores		
189	5/1/2006	0004	0105	58	28.00	173	42.00			Seal Observations NMML Op. 193		
190	5/1/2006	0008	1743	59	32.55	176	40.57	E1H1	146	CTD075	Chl,nuts, HPLC, whole phyto spp, Lugols, size-frac chl, epi phyt spp., P prod, dissolved	
191	5/1/2006	0105	0500	58	33.00	176	53.40			Seal capture operation NMML Op. 194	Spotted: PM-SPOT	
192	5/1/2006	1814		59	31.86	176	40.56	E1H1	146	BON060	20/60 QtowF, Plank	
193	5/1/2006	1827	0526	59	32.17	176	40.60			Bird Observations		
194	5/1/2006	1854	0500	59	39.60	176	27.60			Seal Observations NMML Op. 201		
195	5/1/2006	2143		59	37.62	176	38.52	E1H2	141	CTD076	Filter on AC9, No samples taken	First cast -filte AC9
196	5/1/2006	2157		59	37.67	176	38.48	E1H2	140	CTD077	Chl,nuts, size-frac chl, epi phyt spp., QFT, P prod, DIC,Alk	Cast without fi
197	5/1/2006	2233		59	37.59	176	38.38	E1H2	140	BON061	20/60 BON QTOWF / Plankton	
198	5/2/2006	0132	0230	59	35.40	176	36.00			Seal capture operation NMML Op.202	Ribbon: AF-SPOT & SPLASH; PM SPOT	
199	5/2/2006	0559		59	43.58	176	49.08	E2H1	142	CTD078	nuts, chl, epi phyt spp., whole phyt spp.,DIC,Alk	Ice very clos
200	5/2/2006	0614		59	43.71	176	49.33	E2H1	142	BON062	20/60 QTowF, plank	
201	5/2/2006	0852		59	40.64	176	59.57	E2H2	160	CTD079	nuts, chl, epi phyt spp.	Ice very clos
202	5/2/2006	0929		59	39.11	176	57.91	E2H2	160	BON063	20/60 QTowF, plank	
203	5/2/2006	1142		59	36.71	177	11.66	E2H3	185	CTD080	nuts, chl, epi phyt spp.,DIC,Alk	
204	5/2/2006	1206		59	36.78	177	12.02	E2H3	184	BON064	20/60 QTowF, plank	
205	5/2/2006	1352		59	32.81	177	23.61	E2H4	156	CTD081	nuts, chl, epi phyt spp.	
206	5/2/2006	1430		59	31.55	177	26.58	E2H4	166	BON065	20/60 QTowF, plank	
207	5/2/2006	1600		59	28.98	177	35.11	E2H5	222	CTD082	nuts, chl, T, S, HPLC, size-frac chl, epi phyt spp., P prod,DIC,Alk	
208	5/2/2006	1633		59	29.17	177	36.71	E2H5	232	BON066	20/60 QTowF, plank	
209	5/2/2006	1655	0730	59	29.36	177	37.01			Bird Observations		



210	5/2/2006	1800	0014	59	24.00	177	30.00			Seal Observations NMML Op. 999-seal		
211	5/2/2006	1900	2040	59	25.27	177	52.30			Seal capture NMML Op. 217	Ribbon: PF-SPOT	
212	5/2/2006	2042		59	24.95	177	38.56	E2H6	297	CTD083	1st of 2 casts (production) no sample, filter on acs	Ice very clos
213	5/2/2006	2101		59	24.95	177	38.55	E2H6	299	CTD084	chl, salt, nut, QFT, size-frac chl, epi phyt spp., P prod, dissolved	
214	5/2/2006	2142		59	25.21	177	39.05	E2H6	302	BON067	QtowF 20/60 Plankton	
215	5/3/2006	0120	0230	59	29.44	177	52.62			Seal capture NMML Op. 219	Ribbon: AF-SPOT & SPLASH; PM SPOT (x2)	
216	5/3/2006	0329		59	27.35	177	54.74	E3		ice cores	3 cores, 2 brine sacks	
217	5/3/2006	0356	0445	59	27.09	177	56.11			Seal capture NMML Op. 220	Spotted: PM-SPOT	
218	5/3/2006	0930		59	21.01	177	52.51	E3H1	510	CTD085	nuts, chl, alk, epi phyt spp.,DIC	CTD depth 2
219	5/3/2006	0950		59	21.03	177	52.73	E3H1	530	BON068	QTowF, plank	
220	5/3/2006	1150		59	18.71	177	40.03	E3H2	320	CTD086	nuts, chl, alk, epi phyt spp.	ice very clos
221	5/3/2006	1211		59	18.72	177	40.20	E3H2	340	BON069	QTowF, plank	
222	5/3/2006	1359		59	16.27	177	21.48	E3H3	180	CTD087	nuts, chl, alk, epi phyt spp.,DIC	ice very clos
223	5/3/2006	1440		59	15.43	177	27.78	E3H3	180	BON070	QTowF, plank	
224	5/3/2006	1629		59	14.32	177	17.11	E3H4	162	BON071	QTowF, plank	
225	5/3/2006	1700		59	13.96	177	16.37	E3H4	162	CTD088	none - 1st of 2 production/absorption (AC-S 0.2um filter)	ice very close, south rim of cai
226	5/3/2006	1716		59	13.92	177	16.50	E3H4	158	CTD089	salt, chl, nuts, QFT, size-frac chl, epi phyt spp., P prod, DIC,Alk	ice very close, south rim of cai
227	5/3/2006	1800	2041	59	12.97	177	18.91			Seal capture NMML Op. 230	Spotted: PM-SPOT (x3); Ribbon: PF-SPOT	
228	5/3/2006	2105	0729	59	11.52	177	11.52			Bird Observations		
229	5/3/2006	2239	0351	59	19.27	177	13.20			Seal Observations NMML Op. 231		
230	5/4/2006	0539		59	23.79	177	33.82	E4H1	225	CTD090	chl, nuts, alk, epi phyt spp.	head of cany
231	5/4/2006	0618		59	34.38	177	34.38	E4H1	223	BON072	QTowF, plank	
232	5/4/2006	0826		59	24.02	177	45.71	E4H2	455	CTD091	chl, nuts, alk, epi phyt spp.	CTD @300, i
233	5/4/2006	0847		59	24.10	177	45.92	E4H2	455	BON073	QTowF, plank	
234	5/4/2006	1036		59	21.12	177	53.38	E4H3	517	CTD092	chl, nuts, alk, epi phyt spp.	CTD @300 m rr

235	5/4/2006	1102		59	21.04	177	53.92	E4H3	517	BON074	QTowF, plank	
236	5/4/2006	1245		59	18.03	178	1.41	E4H4	543	CTD093	chl, nuts, alk, epi phyt spp.	CTD @300 m n
237	5/4/2006	1309		59	18.08	178	1.41	E4H4	543	BON075	QTowF, plank	
238	5/4/2006	1441		59	15.02	178	9.70	E4H5	169	CTD094	chl, nuts, alk, epi phyt spp.	no ice
239	5/4/2006	1506		59	15.35	178	10.17	E4H5	169	BON076	QTowF, plank	
240	5/4/2006	1645	0657	59	22.43	177	57.64			Bird Observations		
241	5/4/2006	1651	0257	59	22.43	177	57.64			Seal Observations NMML Op. 245-seal		
242	5/5/2006	0330	0500	59	33.00	177	33.54			Seal capture NMML Op. 243	Ribbon: AF-Scat & SPLASH; PF-Tissue	
243	5/5/2006	0729		59	38.47	178	3.43	E5BIRD	165	CTD095	chl, nuts, alk, epi phyt spp.	
244	5/5/2006	0745		59	38.49	178	3.75	E5BIRD	167	BON077	QTowF, plank	15 m depth rr
245	5/5/2006	0757		59	36.76	178	4.30	E5BIRD		BON078	QTowF, plank	30 m depth rr
246	5/5/2006	0932		59	33.99	177	50.09	E5H1	298	CTD096	chl, nuts, alk, epi phyt spp.	
247	5/5/2006	1030		59	28.00	177	30.00				none	hove to at thicl
248	5/5/2006	1629		59	25.26	177	27.66			Bird Observations		
249	5/6/2006	0000	0115	59	30.00	177	42.00			Seal capture NMML Op. 255	Spotted: PF-SPLASH	
250	5/6/2006	0200	0330	59	30.00	177	42.00			Seal capture NMML Op. 256	Ribbon: AF-Scat, SPLASH; PM-Tissue	
251	5/6/2005	1646	0600	59	26.00	173	28.00			Seal Observations NMML Op. 259		
252	5/6/2006	1730	0547	59	21	173	57.00			Bird Observations		
253	5/6/2006	2105		58	9.83	172	21.05	Crab1	119	Tuck003	QtowF, plank	
254	5/6/2006	2136		58	9.52	172	21.36	Crab1	110	Tuck004		
255	5/6/2006	2216		58	9.65	172	54.84	Crab1	116	Tuch005		
256	5/6/2006	2247		59	9.50	172	54.73	Crab1	111	Tuck006		
257	5/6/2006	2314		58	9.01	172	54.44	Crab1	110	Tuck007		
258	5/7/2006	0014		58	7.18	172	51.31	Crab2	116	Tuck008		
259	5/7/2006	0033		58	7.22	172	51.06	Crab2	118	Tuck009		
260	5/7/2006	0105		58	6.59	172	50.93	Crab2	110	Tuck010		
261	5/7/2006	0137		58	6.03	172	50.99	Crab2	113	Tuck011		
262	5/7/2006	0201		58	6.13	172	50.53	Crab2	110	CTD097	HPLC, size-frac chl, whole phyt spp., epi phyt spp., dissolved	
263	5/7/2006	1653	0542	57	49.02	169	1.34			Bird Observations		

264	5/7/2006	1749		57	49.01	168	49.44	B4H1	72	CTD098	No samples 1 of 2 Production, filter on acs	at M4, ice nea
265	5/7/2006	1803		57	49.00	168	49.44	B4H1	73	CTD099	nuts, salt, chl, QFT, size-frac chl, epi phyt spp., P prod, dissolved	at M4, ice nea
266	5/7/2006	1823		57	49.01	168	49.44	B4H1	74	Live001	Live net for zooplankton exp	
267	5/7/2006	1833		57	48.95	168	49.72	B4H1	73	Live002	Live net for zooplankton exp	
268	5/7/2006	1847		57	48.80	168	50.45	B4H1	73	Live003	Live net for zooplankton exp	
269	5/7/2006	1906		57	48.66	168	51.25	B4H1	73	Live004	Live net for zooplankton exp	
270	5/7/2006	2144		58	4.88	168	42.25	B4H2	76	CTD100	No samples 1 of 2 Production, filter on acs	at an ice edç
271	5/7/2006	2156		58	4.88	168	42.26	B4H2	72	CTD101	nuts, salt, chl, HPLC, QFT, size-frac chl, epi phyt spp., P prod, dissolved	at an ice edç
272	5/7/2006	2224		58	4.87	168	42.19	B4H2	72	Live005	Live net for zooplankton exp	
273	5/7/2006	2242		58	4.73	168	42.29	B4H2	72	Live006	Live net for zooplankton exp	
274	5/7/2006	2317		58	3.45	168	43.81	B4H2	72	BON079	QtowF, plank	
275	5/8/2006	0058		57	54.66	168	53.12	B4H3	73	CTD102	nuts, salt, chl, HPLC, QFT, size-frac chl, whole phyt spp., dissolved	B4H3 heading ; from ice
276	5/8/2006	0117		57	54.63	168	53.20	B4H3	73	BON080	QtowF, plank	
277	5/8/2006	0302		57	46.18	169	2.43	B4H4	67	CTD103	nut, salt, chlor, whole phyt spp.,DIC,Alk	no ice
278	5/8/2006	0311		57	46.11	169	2.73	B4H4	67	BON081	QtowF, plank	
279	5/8/2006	0555		57	34.93	169	13.38	B4H5	72	CTD104	nut, salt, chlor, whole phyt spp.,DIC,Alk	
280	5/8/2006	0618		57	34.75	169	13.72	B4H5	71	BON082	QtowF, plank	
281	5/8/2006	0727		57	28.72	169	20.75	B4H6	74	CTD105	nut, salt, chlor, whole phyt spp.,DIC,Alk	
282	5/8/2006	0738		57	28.58	169	20.97	B4H6	73	BON083	QtowF, plank	
283	5/8/2006	0958		57	14.29	169	34.42	B4H7	63	CTD106	nut, salt, chlor, whole phyt spp.	
284	5/8/2006	0010		57	14.27	169	34.44	B4H7	63	BON084	QtowF, plank	
285	5/8/2006	1603		57	28.99	168	0.00	B5H1	74	CTD107	Filter on AC9, No samples taken	First cast -filte
286	5/8/2006	1614		57	29.99	167	59.99	B5H1	73	CTD108	nuts, salt, chl, QFT, size-frac chl, epi phyt spp., P prod, DIC/Alk	Second cast for station
287	5/8/2006	1630		57	30.04	167	59.73	B5H1	73	LIVE007	Live net for zooplankton exp	
288	5/8/2006	1653		57	30.15	167	59.26	B5H1	73	LIVE008	Live net for zooplankton exp	
289	5/8/2006	1715		57	30.29	167	58.78	B5H1	73	LIVE009	Live net for zooplankton exp	

290	5/8/2006	1730	0500	57	30.29	167	58.78			Bird Observations		
291	5/8/2006	1904		57	43.88	167	40.60	B5H2	70	CTD109	Filter on AC9, No samples taken	First cast -filter
292	5/8/2006	1918		57	42.90	167	40.58	B5H2	70	CTD110	nuts, salt, chl, HPLC, QFT, size-frac chl, epi phyt spp., P prod, DIC/Alk	Second cast for station
293	5/8/2006	1940		57	44.11	167	40.53	B5H2	70	LIVE010	Live net for zooplankton exp	
294	5/8/2006	20001		57	44.53	167	50.50	B5H2	70	LIVE011	Live net for zooplankton exp	
295	5/8/2006	2018		57	44.72	167	50.35	B5H2	70	LIVE012	Live net for zooplankton exp	
296	5/8/2006	2043		57	45.58	167	39.06	B5H2	70	Drifter deployment	DR # 57868	
297	5/9/2006	0057		57	27.13	167	6.37	B5H3	49	CTD111	nuts, salt, chl, QFT, size-frac chl, whole phyt sp., epi phyt spp.,	
298	5/9/2006	0345		58	0.05	167	21.06	B5H4	68	CTD112	nut, salt, chlor, whole phyt spp., DIC/Alk, Lugols	
299	5/9/2006	0356		58	0.09	167	21.08	B5H4	68	BON085	QtowF, plank	
300	5/9/2006	0515		57	52.09	167	31.93	B5H5	69	CTD113	nut, salt, chlor, whole phyt spp.	
301	5/9/2006	0530		57	52.19	167	32.45	B5H5	69	BON086	QtowF, plank	
302	5/9/2006	0648		57	44.24	167	39.88	B5H6	70	CTD114	nut, salt, chlor, whole phyt spp.	
303	5/9/2006	0701		57	44.23	167	40.28	B5H6	69	BON087	QtowF, plank	
304	5/9/2006	0829		57	36.30	167	50.16	B5H7	72	CTD115	nut, salt, chlor, whole phyt spp., Lugols	
305	5/9/2006	0840		57	36.39	167	50.39	B5H7	72	BON088	QtowF, plank	
306	5/9/2006	1018		57	27.00	168	0.03	B5H8	74	CTD116	nut, salt, chlor, whole phyt spp.	
307	5/9/2006	1028		57	27.06	168	0.17	B5H8	74	BON089	QtowF, plank	
308	5/9/2006	1159		57	19.02	168	9.97	B5H9	76	CTD117	nut, salt, chlor, whole phyt spp.	
309	5/9/2006	1211		57	19.09	168	10.14	B5H9	76	BON090	QtowF, plank	
310	5/9/2006	1437		57	6.13	168	20.93	B5H10	81	CTD118	nut, salt, chlor, whole phyt spp.	
311	5/9/2006	1445		57	6.06	168	20.98	B5H10	81	BON091	QtowF, plank	
312	5/9/2006	1647		57	49.84	168	30.88	B5H11	100	CTD119	nut, salt, chlor, whole phyt spp.	
313	5/9/2006	1713		56	49.77	168	31.78	B5H11	100	BON092	QtowF, plank	
314	5/9/2006	1735	0501	56	49.68	168	32.22			Bird Observations		
315	5/9/2006	1852		56	37.24	168	41.91	B5H12	112	CTD120	nuts, salt, chl, size-frac chl, whole phyt sp., P prod	
316	5/9/2006	1913		56	37.21	168	42.64	B5H12	112	BON093	QtowF, plank	
317	5/9/2006	2107		56	21.96	168	51.10	B5H13	126	CTD121	nut, salt, chlor, whole phyt spp.	
318	5/9/2006	2132		56	21.99	168	21.99	B5H13	126	BON094	QtowF, plank	

319	5/9/2006	2314		56	10.37	168	10.37	B5H14	247	CTD122	nuts, salt, chl, QFT, size-frac chl, whole phyt sp., dissolved	edge of Pribi Canyon
320	5/9/2006	2342		56	10.21	168	10.21	B5H14	260	BON095	QtowF, plank	edge of Pribi Canyon
321	5/10/2006	0015		56	10.21	168	10.21	B5H14			End Station Operations - Depart for Unimak Pass	
322	5/10/2006	1534	1842	54	20.34	164	31.92			Bird Observations		
323	5/12/2006	1430								Arrive Seward, AK	End of Cruise	