

APPENDIX 1. Event Log for NBP02-04.

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp21202.001	dock				7	31	1400	s	7	31	1800	53	7.1	70	43.9				leave PA
nbp21202.002	BMP	1			7	31	1813	s	7	31	2213	52	41.341	70	10.971	66	40	Wiebe	BMP test 1
nbp21202.003	BMP	1			7	31	1845	e	7	31	2245	52	41.38	70	7.904	44	30	Wiebe	BMP test 1
nbp21202.004	BMP	2			7	31	1901	s	7	31	2301	52	41.337	70	7.419	44	30	Wiebe	BMP test 2
nbp21202.005	BMP	2			7	31	1935	e	7	31	2335	52	40.937	70	4.821	44	30	Wiebe	BMP test 2
nbp21202.006	BMP	3		0	7	31	1943	s	7	31	2343	52	40.854	70	4.367	44	30	Wiebe	BMP test 3
nbp21202.007	BMP	3			7	31	2016	e	8	1	00 16	52	40.284	70	1.512	44	30	Wiebe	BMP test 3
nbp21402.001	whale				8	2	926	s	8	2	1326	57	32.16	64	10.39			Viddi	Whale Obs.
nbp21402.002	whale				8	2	1111	e	8	2	1511	57	49.97	64	04.63			Viddi	Whale Obs.
nbp21402.003	whale				8	2	1526	s	8	2	1926	58	33.66	63	50.12			Viddi	Whale Obs.
nbp21402.004	whale				8	2	1636	e	8	2	2036	58	45.61	63	45.93			Viddi	Whale Obs.
nbp21402.005	XBT-7	1	DP1		8	2	1641	s/e	8	2	2041	58	46.45	63	45.67	3876	760	Salihoglu	good one
nbp21402.006	XBT-7	2	DP2		8	2	1740	s/e	8	2	2140	58	56.55	63	42.39	3970	760	Salihoglu	good one
nbp21402.007	XBT-7	3	DP3		8	2	1839	s/e	8	2	2239	59	6.36	63	38.94	4000	760	Salihoglu	good one
nbp21402.008	XBT-7	4	DP4		8	2	1936	s/e	8	2	2336	59	16.24	63	35.65	3857	760	Salihoglu	good one
nbp21402.009	XBT-7	5	DP5		8	2	2035	s/e	8	3	00 35	59	26.313	63	32.230	4030	760	Hofmann	good one
nbp21402.010	XBT-7	6	DP6		8	2	2132	s/e	8	3	0132	59	36.29	63	28.559	4163	760	Hofmann	good one
nbp21402.011	XBT-7	7	DP7		8	2	2229	s/e	8	3	0229	59	46.037	63	25.442	3956	760	Hofmann	good one
nbp21402.012	XBT-7	8	DP8		8	2	2322	s/e	8	3	0322	59	57.117	63	21.95	2660	760	Salihoglu	good one
nbp21502.001	XBT-7	9	DP9		8	3	0013	s/e	8	3	0413	60	05.605	63	17.768	3888	550	MacKay	wire broke
nbp21502.002	XBT-7	10	DP10		8	3	115	s/e	8	3	0515	60	16.015	63	14.776	3788	180	MacKay	wire broke
nbp21502.003	XBT-7	11	DP11		8	3	237	s/e	8	3	0637	60	25.547	63	11.709	3826	430	Beardsley	wire broke
nbp21502.004	XBT-7	12	DP12		8	3	359	s/e	8	3	0759	60	35.380	63	08.235	2373	340	Beardsley	wire broke
nbp21502.005	XBT-7	13	DP13		8	3	524	s/e	8	3	0924	60	45.147	63	04.460	1634	200	Beardsley	wire broke
nbp21502.006	XBT-7	14	DP14		8	3	631	s/e	8	3	1031	60	55.241	63	02.574	3009	443	Beardsley	wire broke
nbp21502.007	XBT-7	15	DP15		8	3	743	s/e	8	3	1143	61	06.129	62	58.282	3623	19	Beardsley	wire broke
nbp21502.008	XBT-7	16	DP16		8	3	747	s/e	8	3	1147	61	06.129	62	58.282	3623	575	Beardsley	wire broke
nbp21502.009	XBT-7	17	DP17		8	3	846	s/e	8	3	1246	61	14.824	62	54.996	3582	156	Beardsley	wire broke
nbp21502.010	XBT-7	18	DP18		8	3	848	s/e	8	3	1248	61	15.269	62	54.700	3582	20	Beardsley	wire broke
nbp21502.011	XBT-7	19	DP19		8	3	852	s/e	8	3	1252	61	15.715	62	54.578	3589	240	Beardsley	wire broke
nbp21502.012	whale				8	3	905	s	8	3	1305	61	02.51	62	56.67			Viddi	Whale Obs.
nbp21502.013	XBT-7	20	DP20		8	3	1011	s/e	8	3	1411	61	24.955	62	45.245	3463	760	Beardsley	
nbp21502.014	XBT-7	21	DP21		8	3	1114	s/e	8	3	1514	61	34.581	62	43.739	3500	250	Beardsley	wire broke
nbp21502.015	XBT-7	22	DP22		8	3	1118	s/e	8	3	1518	61	35.103	62	43.732	3695	266	Beardsley	wire broke
nbp21502.016	XBT-7	23	DP23		8	3	1233	s/e	8	3	1633	61	44.64	62	43.07	3450	600	Salihoglu	wire broke
nbp21502.017	XBT-7	24	DP24		8	3	1342	s/e	8	3	1742	61	54.118	62	39.920	3903	635	Hofmann	wire broke

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp21502.018	XBT-7	25	DP25		8	3	1458	s/e	8	3	1858	62 4.07	62 36.69	1501	20	Salihoglu	bad cast		
nbp21502.019	XBT-7	26	DP26		8	3	1501	s/e	8	3	1901	62 4.51	62 36.52	4750	400	Salihoglu	wire broke		
nbp21502.020	XBT-7	27	DP27		8	3	1608	s/e	8	3	2008	62 13.69	62 32.49	3280	350	Salihoglu	wire broke		
nbp21502.021	whale				8	3	1625	e	8	3	2026	62 15.831	62 31.64			Viddi	Whale Obs.		
nbp21502.022	XBT-7	28	DP28		8	3	1735	s/e	8	3	2135	62 23.866	62 28.710	1795	260	Hofmann	wire broke		
nbp21502.023	XBT-7	29	DP29		8	3	1738	s/e	8	3	2138	62 24.201	62 28.613	1792	145	Hofmann	wire broke		
nbp21502.024	XBT-7	30	DP30		8	3	1832	s/e	8	3	2232	62 30.251	62 24.600	414	410	Hofmann	good one		
nbp21502.025	XBT-7	31	DP31		8	3	1836	s/e	8	3	2236	62 30.413	62 24.386	413	413	Hofmann	good one		
nbp21502.026	XBT-7	32	BS1		8	3	2010	s/e	8	4	10	62 39.863	62 14.199	533	520	Hofmann	good one		
nbp21502.027	XBT-7	33	BS2		8	3	2117	s/e	8	4	117	62 48.99	62 5.31	665	665	Salihoglu	good one		
nbp21502.028	XBT-7	34	BS3		8	3	2232	s/e	8	4	232	62 58.14	61 54.91	760	760	Viddi	good one		
nbp21502.029	XBT-7	35	BS4		8	3	2333	s/e	8	4	333	63 07.14	61 45.99	544	544	Viddi	good one		
nbp21602.001	XBT-7	36	BS5		8	4	0027	s/e	8	4	427	63 16.689	61 39.513	1090	760	Beardsley	good one		
nbp21602.002	XBT-7	37	BS6		8	4	0130	s/e	8	4	530	63 26.229	61 32.598	1139	760	Beardsley	good one		
nbp21602.003	XBT-7	38	BS7		8	4	0223	s/e	8	4	623	63 35.658	61 26.300	906	760	Beardsley	good one		
nbp21602.004	XBT-7	39	BS8		8	4	0318	s/e	8	4	718	63 45.165	61 21.505	920	760	Beardsley	good one		
nbp21602.005	XBT-7	40	BS9		8	4	0420	s/e	8	4	820	63 53.595	61 34.638	1091	760	Beardsley	good one		
nbp21602.006	XBT-7	41	BS10		8	4	0518	s/e	8	4	918	64 1.870	61 46.321	1148	50	Beardsley	wire broke		
nbp21602.007	XBT-7	42	BS11		8	4	0521	s/e	8	4	921	64 2.357	61 46.541	1148	122	Beardsley	wire broke		
nbp21602.008	XBT-7	43	BS12		8	4	0524	s/e	8	4	924	64 2.892	61 46.781	1141	92	Beardsley	wire broke		
nbp21602.009	XBT-7	44	BS13		8	4	0637	s/e	8	4	1037	64 11.969	61 52.789	812	114	Beardsley	wire broke		
nbp21602.010	XBT-7	45	BS14		8	4	0639	s/e	8	4	1039	64 12.250	61 52.910	800	79	Beardsley	wire broke		
nbp21602.011	XBT-7	46	BS15		8	4	0736	s/e	8	4	1136	64 21.260	61 59.050	953	760	Beardsley	good one		
nbp21602.012	whale				8	4	0758	s	8	4	1158	64 24.313	62 03.443			Viddi	Whale Obs.		
nbp21602.013	XBT-7	47	BS16		8	4	0831	s/e	8	4	1231	64 28.004	62 13.183	692?	750	Beardsley	good one		
nbp21602.014	XBT-7	48	BS17		8	4	0928	s/e	8	4	1328	64 32.920	62 33.699	780	760	Beardsley	good one		
nbp21602.015	XBT-7	49	BS18		8	4	1028	s/e	8	4	1428	64 38.219	62 53.931	525	525	Beardsley	good one		
nbp21602.016	XBT-7	50	BS19		8	4	1125	s/e	8	4	1525	64 46.122	63 06.960	313	193	Beardsley	wire broke		
nbp21602.017	XBT-7	51	BS20		8	4	1128	s/e	8	4	1528	64 46.417	63 07.514	265	265	Beardsley	good one		
nbp21602.018	XBT-7	52	BS21		8	4	1228	s/e	8	4	1628	64 54.475	63 19.078	323	323	Beardsley	good one		
nbp21602.019	whale				8	4	1628	e	8	4	2028	64 53.541	64 49.486			Viddi	Whale Obs.		
nbp21702.001	whale				8	5	0842	s	8	5	1242	66 19.58	67 50.77			Viddi	Whale Obs.		
nbp21702.002	divers				8	5	1430	s	8	5	1830	66 31.365	67 16.096	691		Torres	test dive/Daly in water		
nbp21702.004	whale				8	5	1512	e	8	5	1912	66 31.37	67 16.15			Viddi	Whale Obs.		
nbp21702.003	CTD	1		515.09	8	5	1513	s	8	5	1913	66 31.37	67 16.15	679	500	Salihoglu	test cast		
nbp21702.005	CTD	1		515.09	8	5	1528	e	8	5	1928	66 31.37	67 16.15	679	500	Salihoglu	test cast		
nbp21702.006	divers				8	5	1630	e	8	5	2030	66 31.37	67 16.15	679		Torres	test dive		

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp21702.007	BMP	4			8	5	1658	s	8	5	2058	66 31.69	67 16.23	679	3	Wiebe	acous. calib.		
nbp21702.008	BMP	4			8	5	1747	e	8	5	2347	66 31.369	67 16.227	679	3	Wiebe	end acous. Calib		
nbp21702.009	CTD	2	CS1	514.1	8	5	2305	s	8	6	305	66 30.31	67 22.64	230	220	Salihoglu			
nbp21702.010	CTD	2	CS1	514.1	8	5	2340	e	8	6	340	66 30.31	67 22.64	230	220	Salihoglu			
nbp21802.001	CTD	3	CS2	509.1	8	6	0104	s	8	6	504	66 31.89	67 28.73	575	560	Beardsley			
nbp21802.002	CTD	3	CS2	509.1	8	6	0147	e	8	6	547	66 31.89	67 28.73	575	560	Beardsley			
nbp21802.003	CTD	4	CS3	504.1	8	6	0314	s	8	6	714	66 34.12	67 32.67	217	207	Beardsley			
nbp21802.004	CTD	4	CS3	504.1	8	6	0340	e	8	6	740	66 34.12	67 32.67	217	207	Beardsley			
nbp21802.005	ROV	1			8	6	0528	s	8	6	928	66 33.978	67 32.456	260		Gallager			
nbp21802.006	Ice Coring	1			8	6	0440	s	8	6	710	66 33.98	67 32.45	260		Stewart, Daly			
nbp21802.007	Ice Coring	1			8	6	0650	e	8	6	1050	66 33.98	67 32.45	260		Stewart, Daly			
nbp21802.008	ROV	1			8	6	0700	e	8	6	1100	66 33.98	67 32.456	260		Gallager			
nbp21802.009	whale				8	6	0852	s	8	6	1252	66 31.354	67 16.48			Viddi	Whale Obs.		
nbp21802.010	HTI	1	Barcroft		8	6	1142	s	8	6	1542	66 29.763	67 02.051	356	5	Daly	calibration		
nbp21802.011	HTI	1	Barcroft		8	6	1308	e	8	6	1708	66 29.763	67 02.051	356	5	Daly	calibration		
nbp21802.012	penguins		Barcroft		8	6	1400	s	8	6	1800	66 28.168	67 1.057	355		Ribic	3 diet samples		
nbp21802.013	penguins		Barcroft		8	6	1530	e	8	6	1930	66 28.168	67 1.057	355		Ribic			
nbp21802.014	whale				8	6	1643	e	8	6	2043	66 32.84	67 04.54			Viddi	Whale Obs.		
nbp21802.015	Tucker	1			8	6	1735	s	8	6	2135	66 34.951	67 4.433	1188		Torres			
nbp21802.016	Tucker	1			8	6	1828	e	8	6	2228	66 34.228	67 7.481			Torres			
nbp21802.017	Tucker	2			8	6	1837	s	8	6	2237	66 34.226	67 7.483			Torres/ Daly			
nbp21802.018	Tucker	2			8	6	1900	e	8	6	2300	66 34.226	67 7.483			Torres/ Daly			
nbp21902.001	CTD	5	CS7	503.07	8	7	0021	s	8	7	421	66 41.68	67 07.50	232	218	Beardsley			
nbp21902.002	CTD	5	CS7	503.07	8	7	0050	e	8	7	450	66 41.68	67 07.50	232	218	Beardsley			
nbp21902.003	CTD	6	CS6	506.08	8	7	0234	s	8	7	634	66 37.86	67 15.62	580	556	Beardsley			
nbp21902.004	CTD	6	CS6	506.08	8	7	0315	e	8	7	715	66 37.86	67 15.62	580	556	Beardsley			
nbp21902.005	CTD	7	CS5	505.09	8	7	0458	s	8	7	858	66 35.02	67 27.83	876	849	Beardsley			
nbp21902.006	CTD	7	CS5	505.09	8	7	0555	e	8	7	955	66 35.02	67 27.83	876	849	Beardsley			
nbp21902.007	CTD	8	CS4	506.1	8	7	0720	s	8	7	1120	66 31.73	67 38.15	237	223	Beardsley			
nbp21902.008	CTD	8	CS4	506.1	8	7	0750	e	8	7	1150	66 31.73	67 38.15	237	223	Beardsley			
nbp21902.009	Ice Coring	2			8	7	0830	s	8	7	1230	66 31.92	67 37.84	237		Stewart	CS7 station		
nbp21902.010	ROV	2			8	7	845	s	8	7	1245	66 31.882	67 38.188	241		Gallager			
nbp21902.011	ROV	2			8	7	1000	e	8	7	1400	66 32.356	67 34.359	241		Gallager			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp21902.012	Ice Coring	2			8	7	1030	e	8	7	1430	67 31.92	68 37.84	237		Stewart			
nbp21902.013	whale				8	7	1055	s	8	7	1455	66 32.356	67 34.359			Viddi	Whale Obs.		
nbp21902.014	MOC1	1			8	7	1346	s	8	7	1746	66 31.677	67 19.212	700-400	395	Wiebe	test tow		
nbp21902.015	MOC1	1			8	7	1558	e	8	7	1958	66 31.657	67 11.251	700-400	395	Wiebe	test tow		
nbp21902.016	whale				8	7	1653	e	8	7	2053	66 32.042	67 05.951			Viddi	Whale Obs.		
nbp21902.017	MOC10	1			8	7	1914	s	8	7	2314	66 32.549	67 05.818			Torres			
nbp21902.018	MOC10	1			8	7	2130	e	8	8	130	66 36.5	67 06.7			Torres			
nbp22002.001	bird obs	1			8	8	848	s	8	8	1248	66 30.138	67 43.618			Ribic			
nbp22002.002	whale				8	8	1031	s/e	8	8	1431	66 30.753	67 44.135			Viddi	Whale Obs.		
nbp22002.003	met sensor				8	8	1047	s/e	8	8	1447	66 30.765	67 44.185	239		Stuart	fix anemometer		
nbp22002.004	XBT-7	53	transit1		8	8	2042	s/e	8	9	42	66 34.791	68 28.215	473	150	Hofmann	wire broke		
nbp22002.005	XBT-7	54	transit1		8	8	2045	s/e	8	9	45	66 34.959	68 28.697	387	275	Hofmann			
nbp22002.006	XBT-4	55	transit1		8	8	2249	s/e	8	9	249	66 39.833	68 50.814	385	150	Hofmann	wire broke		
nbp22002.007	XBT-4	56	transit1		8	8	2251	s/e	8	9	251	66 39.917	68 51.054	380	380	Hofmann			
nbp22102.001	XBT-4	57	transit1		8	9	0101	s/e	8	9	501	66 47.118	69 10.063	214	214	Beardsley			
nbp22102.002	XBT-4	58	transit1		8	9	0307	s/e	8	9	707	66 52.539	69 30.875	420	386	Beardsley	wire broke?		
nbp22102.003	XBT-7	59	transit1		8	9	0510	s/e	8	9	910	66 57.874	69 51.672	650	500	Beardsley	wire broke		
nbp22102.004	XBT-7	60	transit1		8	9	0728	s/e	8	9	1128	67 04.094	70 16.166	658	658	Beardsley	warm BBL?		
nbp22102.005	bird obs		transit1		8	9	0758	s	8	9	1158	67 05.55	70 21.03			Ribic			
nbp22102.006	whale				8	9	0830	s	8	9	1230	67 07.507	70 25.973			Viddi	Whale Obs.		
nbp22102.007	bird obs				8	9	0937	e	8	9	1337	67 10.31	70 31.79	512		Ribic	penguin herd @ Gould		
nbp22102.008	HTI	2	transit1		8	9	1106	s/e	8	9	1506	67 11.388	70 33.218	508	surface	Daly	calibration aborted		
nbp22102.009	CTD	9	transit1		8	9	1115	s	8	9	1515	67 11.26	70 32.99	505	200	Beardsley	CMiPS cast		
nbp22102.010	CTD	9	transit1		8	9	1120	e	8	9	1520	67 11.26	71 32.99	505	200	Beardsley			
nbp22102.011	CTD	10	transit1		8	9	1131	s	8	9	1531	67 11.32	70 33.09	505	470	Beardsley			
nbp22102.012	CTD	10	transit1		8	9	1210	e	8	9	1610	67 11.32	70 33.09	505	470	Beardsley			
nbp22102.013	HTI	3			8	9	1421	s	8	9	1821	67 11.54	70 34.565	750	surface	Daly	HTI calibration		
nbp22102.014	bird obs	2			8	9	1523	s	8	9	1923	67 11.52	70 33.86			Ribic			
nbp22102.015	ice sample				8	9	1523	s	8	9	1933	67 11.52	70 33.86			Stewart			
nbp22102.016	HTI	3			8	9	1525	e	8	9	1925	67 11.54	70 34.565	750	surface	Daly	HTI calibration		
nbp22102.017	ice sample				8	9	1535	e	8	9	1935	67 11.52	70 33.86			Stewart			
nbp22102.018	bird obs	2			8	9	1625	e	8	9	2025	67 13.38	70 38.52			Ribic			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp22102.019	Ice Coring				8	9	1630	s	8	9	2030	67 13.38	70 38.52			Stewart, Daly			
nbp22102.020	whale				8	9	1643	e	8	9	2043	67 13.376	70 38.557			Viddi	Whale Obs.		
nbp22102.021	ROV	3	transit1		8	9	1700	s	8	9	2100	67 13.369	70 38.604	510	10	Gallager			
nbp22102.022	Ice Coring				8	9	1755	e	8	9	2155	67 13.38	70 38.52			Stewart, Daly			
nbp22102.023	ROV	3	transit1		8	9	1800	e	8	9	2200	67 13.369	70 38.604	510	50	Gallager	Cool stuff		
nbp22102.024	XBT-4	61	transit1		8	9	1858	s/e	8	9	2258	67 16.90	70 47.67	515	140	Salihoglu	wire broke		
nbp22102.025	XBT-4	62	transit1		8	9	1902	s/e	8	9	2302	67 17.00	70 47.92	513	192	Salihoglu	wire broke		
nbp22102.028	XBT-4	63	transit1		8	9	2104	s/e	8	10	104	67 23.31	71 07.32	496	460	Viddi	good one		
nbp22202.001	XBT-4	64	transit1		8	10	0104	s/e	8	10	504	67 35.069	71 51.877	~400	160	Hofmann			
nbp22202.002	XBT-4	65	transit1		8	10	0105	s/e	8	10	505	67 35.125	71 52.030	~400	125	Hofmann			
nbp22202.003	XBT-4	66	transit1		8	10	0258	s/e	8	10	658	67 40.58	72 13.21	348	0	Beardsley	wire broke		
nbp22202.004	XBT-4	67	transit1		8	10	0301	s/e	8	10	701	67 40.68	72 13.45	348	0	Beardsley	wiew broke		
nbp22202.005	XBT-7	68	transit1		8	10	0304	s/e	8	10	704	67 40.84	72 13.78	348	92	Beardsley	wire broke		
nbp22202.006	XBT-7	69	transit1		8	10	0310	s/e	8	10	710	67 41.173	72 14.333	348	348	Beardsley	good one		
nbp22202.007	XBT-4	70	transit1		8	10	0502	s/e	8	10	902	67 47.440	72 34.253	466	167	Beardsley	wire broke		
nbp22202.008	XBT-4	71	transit1		8	10	0504	s/e	8	10	904	67 47.479	72 34.403	466	377	Beardsley	wire broke		
nbp22202.009	XBT-4	72	transit1		8	10	0703	s/e	8	10	1103	67 55.26	72 51.04	405	17	Beardsley	wire broke		
nbp22202.010	XBT-4	73	transit1		8	10	0705	s/e	8	10	1105	67 55.32	72 51.17	405	130	Beardsley	wire broke		
nbp22202.011	XBT-4	74	transit1		8	10	0708	s/e	8	10	1108	67 55.398	72 51.356	405	405	Beardsley	good one		
nbp22202.012	bird obs	3			8	10	0803	s	8	10	1203	67 58.281	73 01.575			Ribic			
nbp22202.013	whale				8	10	0834	s	8	10	1234	68 00.372	73 06.026			Viddi	Whale Obs.		
nbp22202.014	XBT-4	75	transit1		8	10	0902	s/e	8	10	1302	68 02.641	73 08.658	359	199	Beardsley	wire broke		
nbp22202.015	XBT-4	76	transit1		8	10	0905	s/e	8	10	1305	68 02.664	73 08.699	359	359	Beardsley	good one		
nbp22202.016	whale				8	10	1635	e	8	10	2035	67 58.309	73 52.561			Viddi	Whale Obs.		
nbp22202.017	bird obs	3			8	10	1644	e	8	10	2044	67 57.91	73 53.73			Ribic			
nbp22302.001	bird obs	4			8	11	759	s	8	11	1159	68 40.86	76 21.20			Ribic			
nbp22302.002	whale				8	11	846	s	8	11	1246	68 42.413	76 09.945			Viddi	Whale Obs.		
nbp22302.003	bird obs	4			8	11	1216	e	8	11	1616	68 41.41	76 11.40			Ribic			
nbp22302.004	Krill Release	1			8	11	1408	s/e	8	11	1808	68 40.690	76 1.363	422	surface	Daly			
nbp22302.005	whale				8	11	1630	e	8	11	2030	68 40.345	76 11.037			Viddi	Whale Obs.		
nbp22302.006	CTD	11	75	101.26	8	11	1656	s	8	11	2056	68 40.301	76 10.137	428	405	Hofmann			
nbp22302.007	CTD	11	75	101.26	8	11	1733	e	8	11	2133	68 40.301	76 10.137	428	405	Hofmann			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp22302.008	BMP	5	75	101.26	8	11	1800	s	8	11	2208	68 40.077	76 9.385	423	3	Wiebe	calibration		
nbp22302.009	BMP	5	75	101.26	8	11	1941	e	8	11	2341	68 40.011	76 9.925	423	3	Wiebe	calibration		
nbp22302.010	MOC 10	2	75	101.26	8	11	2055	s	8	12	55	68 39.928	76 08.852	427	350	Torres			
nbp22302.011	MOC 10	2	75	101.26	8	11	2245	e	8	12	245	68 42.847	76 1.211	440	350	Torres			
nbp22302.012	Tucker	3	75	101.26	8	11	2336	s	8	12	336	68 43.236	76 00.103	448	100	Daly			
nbp22402.001	Tucker	3	75	101.26	8	12	30	e	8	12	430	68 43.503	75 58.383	448	100	Daly			
nbp22402.002	BMP	6	76/77		8	12	100	s	8	12	500	68 43.502	75 58.367	526	105	Wiebe			
nbp22402.003	BMP	6	76/77		8	12	135	e	8	12	535	68 43.437	75 55.540	526	105	Wiebe	too much ice		
nbp22402.004	CTD	12		101.22	8	12	427	s	8	12	827	68 44.92	75 41.86	468	200	Beardsley	CMiPS cast		
nbp22402.005	CTD	12		101.22	8	12	437	e	8	12	837	68 44.92	75 41.86	468	200	Beardsley	CMiPS cast		
nbp22402.006	CTD	13		101.22	8	12	441	s	8	12	841	68 44.92	75 41.73	467	458	Beardsley			
nbp22402.007	CTD	13		101.22	8	12	527	e	8	12	927	68 44.92	75 41.73	467	458	Beardsley			
nbp22402.008	bird obs	5	to 77		8	12	812	s	8	12	1212	68 48.71	75 28.88			Ribic			
nbp22402.009	whale				8	12	837	s	8	12	1237	68 49.631	75 24.667			Viddi	Whale Obs.		
nbp22402.010	bird obs	5	77		8	12	1222	e	8	12	1622	68 54.616	75 11.137			Ribic			
nbp22402.011	ice dive	2	77		8	12	1345	s	8	12	1745	68 53.886	75 8.425	477		Torres			
nbp22402.012	BMP	7	77		8	12	1406	s	8	12	1806	68 53.886	75 8.425	477		Torres			
nbp22402.013	ice dive	2	77		8	12	1530	e	8	12	1930	68 52.874	75 7.361	500		Wiebe			
nbp22402.014	BMP	7	77		8	12	1615	e	8	12	2015	68 52.874	75 7.361	500		Wiebe			
nbp22402.015	CTD	14	77	101.180	8	12	1643	s	8	12	2043	68 52.51	75 07.157	514	200	Salihoglu	CMiPS cast		
nbp22402.016	whale				8	12	1658	e	8	12	2058	68 52.55	75 07.171			Viddi	Whale Obs.		
nbp22402.017	CTD	14	77	101.180	8	12	1700	e	8	12	2100	68 52.51	75 07.157	514	200	Salihoglu	CMiPS cast		
nbp22402.018	CTD	15	77	101.180	8	12	1702	s	8	12	2102	68 52.51	75 07.157	501	476	Salihoglu			
nbp22402.019	CTD	15	77	101.180	8	12	1739	e	8	12	2139	68 52.51	75 07.157	501	476	Salihoglu			
nbp22402.020	ROV	4	77	101.180	8	12	1824	s	8	12	2224	68 51.75	75 7.073	501	3	Gallager			
nbp22402.021	Ice Coring		77	101.180	8	12	1830	s	8	12	2230	68 51.75	75 7.073	501		Stewart			
nbp22402.022	Ice Coring		77	101.180	8	12	1945	e	8	12	2345	68 51.75	75 7.073	501		Stewart			
nbp22402.023	ROV	4	77	101.180	8	12	1950	e	8	12	2350	68 50.990	75 6.556	501	3	Gallager			
nbp22402.024	MOC1	2	77	101.180	8	12	2042	s	8	13	42	68 50.709	75 6.735	596		Wiebe			
nbp22402.025	MOC1	2	77	101.180	8	12	2146	e	8	12	146	68 50.61	75 10.8			Wiebe			
nbp22502.001	CTD	16	to 81		8	13	804	s	8	13	1204	69 03.159	75 37.982	370	290	Beardsley	CMiPS cast		
nbp22502.002	CTD	16	to 81		8	13	810	e	8	13	1210	69 03.159	75 37.982	370	290	Beardsley			
nbp22502.003	CTD	17	to 81		8	13	814	s	8	13	1214	69 03.091	75 37.810	365	345	Beardsley			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp22502.004	CTD	17	to 81		8	13	848	e	8	13	1248	69 03.091	75 37.810	365	345	Beardsley			
nbp22502.005	whale		to 81		8	13	912	s	8	13	1312	69 02.96	75 37.367			Viddi	Whale Obs.		
nbp22502.008	BMP	8	80/81		8	13	918	s	8	13	1318	69 02.941	75 37.305	365	100	Wiebe	vertical profile		
nbp22502.006	bird obs	6	to 81		8	13	920	s	8	13	1320	69 02.93	75 37.28			Ribic			
nbp22502.007	bucket	1	to 81		8	13	948	s/e	8	13	1348	69 02.832	75 36.835	355		Daly	surface water		
nbp22502.009	BMP	8	80/81		8	13	1020	e	8	13	1420	69 02.941	75 37.305	365	100	Wiebe			
nbp22502.010	Tucker	4	to 81		8	13	1103	s	8	13	1503	69 02.954	75 34.643	353	75	Daly			
nbp22502.011	Tucker	4	to 81		8	13	1125	e	8	13	1525	69 02.506	75 36.305	353	75	Daly			
nbp22502.012	Tucker	5	to 81		8	13	1133	s	8	13	1533	69 2.506	75 36.305	353	250	Torres			
nbp22502.013	Tucker	5	to 81		8	13	1205	e	8	13	1605	69 2.311	75 35.203	353	250	Torres			
nbp22502.014	whale		to 81		8	13	1600	e	8	13	2000	69 00.238	76 16.67			Viddi	Whale Obs.		
nbp22502.015	bird obs	6	81		8	13	1617	e	8	13	2017	69 00.29	76 19.23			Ribic			
nbp22502.016	CTD	18	81	61.22	8	13	1628	s	8	13	2028	69 0.26	76 19.05	420	200	Salihoglu	CMiPS cast		
nbp22502.017	CTD	18	81	61.22	8	13	1640	e	8	13	2040	69 0.26	76 19.05	420	200	Salihoglu	CMiPS cast		
nbp22502.018	CTD	19	81	61.22	8	13	1642	s	8	13	2042	69 0.19	76 18.72	410	395	Salihoglu			
nbp22502.019	CTD	19	81	61.22	8	13	1714	e	8	13	2114	69 0.19	76 18.72	410	395	Salihoglu			
nbp22502.020	Tucker	6	81		8	13	1801	s	8	13	2201	68 59.706	76 12.820	410		Daly			
nbp22502.021	Tucker	6	81		8	13	1826	s	8	13	2226	68 59.667	76 14.375	416		Daly			
nbp22502.022	Ring net	1	81		8	13	1840	s	8	13	2240	68 59.667	76 14.375	416	surface	Ribic	bird; surface tow		
nbp22502.023	Ring net	1	81		8	13	1907	e	8	13	2307	68 59.028	76 17.749	416	surface	Ribic	bird; surface tow		
nbp22602.001	MOC1	3	82		8	14	335	s	8	14	735	68 48.29	76 46.20	407	260	Alatalo Dorland			
nbp22602.002	MOC1	3	82		8	14	420	e	8	14	820	68 47.82	76 49.51	400		Alatalo Dorland			
nbp22602.003	ROV	5	82		8	14	500	s	8	14	900	68 46.724	76 46.911	404		Gallager			
nbp22602.004	ice coring		82		8	14	600	s	8	14	1000	68 46.704	76 46.843	404		Stewart			
nbp22602.005	ice coring		82		8	14	700	e	8	14	1100	68 46.704	76 46.843	404		Stewart			
nbp22602.006	ROV	5	82		8	14	713	e	8	14	1113	68 45.918	76 44.451	422		Gallager			
nbp22602.007	CTD	20	82		8	14	738	s	8	14	1138	68 45.71	76 43.44	425		Beardsley	CMiPS cast		
nbp22602.008	CTD	20	82		8	14	845	e	8	14	1248	68 44.84	76 41.28	425		Beardsley			
nbp22602.009	bird obs	7	82 to 75		8	14	830	S	8	14	1230	68 45.04	76 41.75			Ribic			
nbp22602.010	whale		82 to 75		8	14	855	s	8	14	1255	68 44.365	76 40.421			Viddi	Whale Obs.		
nbp22602.011	CTD	21	75	101.26	8	14	1233	s	8	14	1633	68 31.30	76 17.37	1180	1172	Salihoglu			
nbp22602.012	CTD	21	75	101.26	8	14	1338	e	8	14	1738	68 31.30	76 17.37	1180	1172	Salihoglu			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp22602.013	Tucker	7	75		8	14	1410	s	8	14	1810	68 29.705	76 15.615	1471		Torres			
nbp22602.014	Tucker	7	75		8	14	1457	e	8	14	1857	68 28.295	76 15.282	1471		Torres			
nbp22602.015	bird obs	7	to 74		8	14	1718	e	8	14	2118	68 20.50	75 54.51			Ribic			
nbp22602.016	whale		to 74		8	14	1723	e	8	14	2123	68 20.133	75 52.513			Viddi	Whale Obs.		
nbp22602.017	CTD	22	74	141.26	8	14	2014	s	8	15	14	68 16.49	75 38.72	1710	100	Hofmann	FRRF		
nbp22602.018	CTD	22	74	141.26	8	14	2021	e	8	15	21	68 16.49	75 38.72	1710	100	Hofmann	FRRF		
nbp22602.019	CTD	23	74	141.26	8	14	2038	s	8	15	38	68 16.43	75 38.31	1695	1685	Hofmann	CMiPS		
nbp22602.020	CTD	23	74	141.26	8	14	2217	e	8	15	217	68 16.43	75 38.31	1695	1685	Hofmann	CMiPS		
nbp22602.021	Tucker	8	74	141.26	8	14	2239	s	8	15	239	68 15.995	75 35.843	1444		Torres			
nbp22602.022	Tucker	8	74	141.26	8	14	2309	e	8	15	309	68 15.995	75 35.843	1444		Torres			
nbp22702.001	CTD	24	73	141.220	8	15	511	s	8	15	911	68 27.92	75 01.00	429		Beardsley			
nbp22702.002	CTD	24	73	141.220	8	15	523	e	8	15	923	68 27.92	75 01.00	429		Beardsley			
nbp22702.003	CTD	25	73	141.220	8	15	526	s	8	15	926	68 27.83	75 00.86	431		Beardsley			
nbp22702.004	CTD	25	73	141.220	8	15	542	e	8	15	942	68 27.83	75 00.86	431	409	Beardsley			
nbp22702.005	BMP	9	~73		8	15	645	s	8	15	1045	68 27.834	75 00.626		100	Wiebe			
nbp22702.006	BMP	9	~73		8	15	740	e	8	15	1140	68 30.33	74 51.812		100	Wiebe			
nbp22702.007	bird obs	8	to 72		8	15	806	s	8	15	1206	68 29.81	74 57.25			Ribic			
nbp22702.008	whale				8	15	833	s	8	15	1233	68 30.084	74 55.557			Viddi	Whale Obs.		
nbp22702.009	BMP	10	to 72		8	15	952	s	8	15	1352	68 31.869	74 36.256	559	100	Wiebe			
nbp22702.010	BMP	10	to 72		8	15	1235	e	8	15	1635	68 32.820	74 13.443	559	100	Wiebe	too much ice		
nbp22702.011	bird obs	8	to 72		8	15	1502	e	8	15	1902	68 35.33	74 04.23			Ribic			
nbp22702.012	CTD	26	72	141.180	8	15	1530	s	8	15	1930	68 35.289	74 04.203	683	100	Hofmann	FRRF		
nbp22702.013	CTD	26	72	141.180	8	15	1544	e	8	15	1944	68 35.289	74 04.203	683	100	Hofmann	FRRF		
nbp22702.014	CTD	27	72	141.180	8	15	1550	s	8	15	1950	68 35.26	74 4.24	681	1	Hofmann	Abort/ice		
nbp22702.015	CTD	27	72	141.180	8	15	1555	e	8	15	1955	68 35.26	74 4.24	681	1	Hofmann	Abort/ice		
nbp22702.016	CTD	28	72	141.180	8	15	1615	s	8	15	2015	68 35.25	74 4.26	682	667	Hofmann	CMiPS cast		
nbp22702.017	CTD	28	72	141.180	8	15	1708	e	8	15	2108	68 35.25	74 4.26	682	667	Hofmann	CMiPS cast		
nbp22702.018	whale		72		8	15	1645	e	8	15	2045	68 35.23	74 04.375			Viddi	Whale Obs.		
nbp22702.019	Tucker	9	72		8	15	1734	s	8	15	2134	68 34.973	74 03.819	716	150	Daly			
nbp22702.020	Tucker	9	72		8	15	1823	e	8	15	2223	68 34.370	74 09.207	676	150	Daly			
nbp22702.021	MOC 10	3	72		8	15	1900	s	8	15	2300	68 34.369	74 09.035	677	500	Torres			
nbp22702.022	MOC 10	3	72		8	15	2055	e	8	16	55	68 35.522	74 05.219	677	500	Torres			
nbp22702.023	Ice Coring		72		8	15	2200	s	8	16	200	68 35.257	74 5.587	711		Stewart			
nbp22702.024	ROV	6	72		8	15	2216	s	8	16	216	68 35.257	74 5.587	711		Gallager			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp22802.001	ICE coring		72		8	16	0000	e	8	16	400	68 35.257	74 5.587	711		Stewart			
nbp22802.002	ROV	6	72		8	16	0015	e	8	16	415	68 35.257	74 5.587	711		Gallager			
nbp22802.003	MOC 1	4	72		8	16	0035	s	8	16	435	68 34.64	74 7.06	711		Wiebe			
nbp22802.004	MOC 1	4	72		8	16	0154	e	8	16	554	68 35.261	74 01.27	711		Wiebe			
nbp22802.005	whale				8	16	0855	s	8	16	1255	68 32.240	73 59.152			Viddi	Whale Obs.		
nbp22802.006	bird obs	9	to 67		8	16	0916	s	8	16	1316	68 31.55	74 03.63			Ribic			
nbp22802.007	BMP	11	66/67		8	16	1323	s	8	16	1723	68 28.275	74 35.644	454		Wiebe			
nbp22802.008	bird obs	9	to 67		8	16	1405	e	8	16	1805	68 27.87	74 38.52			Ribic			
nbp22802.009	BMP	11	66/67		8	16	1515	e	8	16	1915	68 26.567	74 45.908	429					
nbp22802.010	ice dive		66/67		8	16	1548	s	8	16	1948	68 26.542	74 45.712	431		Torres			
nbp22802.011	whale				8	16	1626	e	8	16	2026	68 26.477	74 45.588			Viddi	Whale Obs.		
nbp22802.012	Ring net	2			8	16	1700	s	8	16	2100	68 26.477	74 45.588			Ribic	bird- surface tow		
nbp22802.013	ice dive		66/67		8	16	1730	e	8	16	2130	68 26.542	74 45.712	431		Torres			
nbp22802.014	Ring net	2			8	16	1730	e	8	16	2130	68 26.477	74 45.588			Ribic	bird- surface tow		
nbp22802.015	BMP	12			8	16	1930	s	8	17	24	68 26.43	74 53.73	309		Wiebe			
nbp22802.016	BMP	12	to 65		8	16	2200	e	8	17	200	68 22.688	74 52.074	438		Wiebe			
nbp22902.001	ROV	7	65	181.24	8	17	820	s	8	17	1220	68 5.493	74 44.720	410	15	Gallager			
nbp22902.002	ice coring		65	181.24	8	17	821	s	8	17	1221	68 5.493	74 44.720			Stewart			
nbp22902.003	whale		65	181.24	8	17	910	s	8	17	1310	68 05.437	74 43.820			Viddi			
nbp22902.004	ROV	7	65	181.24	8	17	940	e	8	17	1340	68 05.493	74 44.720	410	15	Gallager			
nbp22902.005	ice coring		65	181.24	8	17	1020	e	8	17	1420	68 05.493	74 44.720			Stewart			
nbp22902.006	CTD	29	65	181.24	8	17	1053	s	8	17	1453	68 5.15	74 42.38	410	300	Beardsley	CMiPS cast		
nbp22902.007	CTD	29	65	181.24	8	17	1108	e	8	17	1508	68 5.15	74 42.38	410	300	Beardsley	CMiPS cast		
nbp22902.008	CTD	30	65	181.24	8	17	1111	s	8	17	1511	68 5.10	74 41.93	404	390	Beardsley			
nbp22902.009	CTD	30	65	181.24	8	17	1203	e	8	17	1603	68 5.10	74 41.93	404	390	Beardsley			
nbp22902.010	MOC1	5	65	181.24	8	17	1242		8	17	1642	68 6.322	74 41.530	400	375	Wiebe			
nbp22902.011	MOC1	5	65	181.24	8	17	1421		8	17	1821	68 8.36	74 39.10	400	0	Wiebe			
nbp22902.012	MOC10	4	65	181.24	8	17	1513	s	8	17	1913	68 8.814	74 35.499	418	350	Torres			
nbp22902.013	MOC10	4	65	181.24	8	17	1611	e	8	17	2011	68 7.673	74 39.31			Torres			
nbp22902.014	Tucker	10	65	181.24	8	17	1646	s	8	17	2046	68 07.607	74 39.136	405	100	Daly			
nbp22902.015	Tucker	10	65	181.24	8	17	1717	e	8	17	2117	68 08.174	74 36.452	410	100	Daly			
nbp22902.016	whale				8	17	1738	e	8	17	2138	68 08.353	74 35.166			Viddi			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp22902.017	BMP	13	65	181.24	8	17	1735	s	8	17	2135	68 8.35	74 35.148	400	150	Wiebe			
nbp22902.018	BMP	13	65	181.24	8	17	1900	e	8	17	2300	68 4.97	74 39.34	400	150	Wiebe			
nbp22902.019	XBT-7	77	Transit2		8	17	2146	s/e	8	18	146	67 58.474	74 38.883	875	87	Hofmann	wire broke		
nbp22902.020	XBT-7	78	Transit2		8	17	2148	s/e	8	18	148	67 58.386	74 38.609	919	87	Hofmann	wire broke		
nbp23002.001	XBT-4	79	Transit2		8	18	112	s/e	8	18	512	67 46.634	73 56.311	421	260	Beardsley	wire broke		
nbp23002.002	XBT-4	80	Transit2		8	18	303	s/e	8	18	703	67 45.423	73 31.204	440	163	Beardsley	wire broke		
nbp23002.003	XBT-7	81	Transit2		8	18	305	s/e	8	18	705	67 45.402	73 30.927	440	213	Beardsley	wire broke		
nbp23002.004	XBT-4	82	Transit2		8	18	453	s/e	8	18	853	67 33.604	73 17.928	483	460	Beardsley			
nbp23002.005	bird obs	10	Transit2		8	18	800	s	8	18	1200	67 40.314	73 05.679			Ribic			
nbp23002.006	whale		Transit2		8	18	844	s	8	18	1244	67 38.52	73 06.65			Viddi			
nbp23002.007	XBT-4	83	Transit2		8	18	1032	s/e	8	18	1432	67 33.604	73 17.923	483	460	Beardsley			
nbp23002.008	XBT-4	84	Transit2		8	18	1226	s/e	8	18	1629	67 30.717	72 52.984	460	183	Hofmann	wire broke		
nbp23002.009	XBT-4	85	Transit2		8	18	1231	s/e	8	18	1631	67 30.816	72 52.587	450	260	Hofmann	wire broke		
nbp23002.010	XBT-4	86	Transit2		8	18	1411	s/e	8	18	1811	67 30.534	72 28.283	380	300	Salihoglu	wire broke		
nbp23002.011	XBT-4	87	Transit2		8	18	1553	s/e	8	18	1953	67 35.337	72 5.766	388	40	Salihoglu	bad cast		
nbp23002.012	XBT-4	88	Transit2		8	18	1554	s/e	8	18	1954	67 35.408	72 5.528	396	364	Salihoglu	good		
nbp23002.013	whale				8	18	1705	e	8	18	2105	67 35.016	71 52.495			Viddi			
nbp23002.014	bird obs	10	Transit2		8	18	1709	e	8	18	2109	67 34.87	71 51.19			Ribic			
nbp23002.015	XBT-4	89	Transit2		8	18	1752	s/e	8	18	2152	67 34.431	71 38.853	430	430	Salihoglu	good		
nbp23002.016	XBT-4	90	Transit2		8	18	2119	s/e	8	19	119	67 43.071	71 50.174	312	330	Hofmann	hit bottom		
nbp23102.001	ice coring		42	301.180	8	19	530	s	8	19	930	67 32.711	71 39.322			Stewart			
nbp23102.002	ROV		42	301.180	8	19	519	s	8	19	919	67 33.108	71 37.332	379		Gallagher			
nbp23102.003	ice coring		42	301.180	8	19	710	e	8	19	1110	67 33.056	71 36.380			Stewart			
nbp23102.004	ROV		42	301.180	8	19	740	e	8	19	1140	67 33.056	71 36.280	333		Gallagher	white-out conditions		
nbp23102.005	CTD	31	42	301.180	8	19	812	s	8	19	1212	67 32.77	71 35.28	454	433	Beardsley			
nbp23102.006	CTD	31	42	301.180	8	19	902	e	8	19	1302	67 32.77	71 35.28	454	433	Beardsley			
nbp23102.007	whale		42	301.180	8	19	914	s	8	19	1314	67 32.51	71 32.773			Viddi			
nbp23102.008	MOC1	6	42		8	19	1028	s	8	19	1428	67 31.46	71 26.744	450	400	Wiebe			
nbp23102.009	MOC1	6	42		8	19	1146	e	8	19	1546	67 30.909	71 31.92	450		Wiebe			
nbp23102.010	Tucker	11	42		8	19	1216	s	8	19	1616	67 30.438	71 30.598	443	150	Daly			
nbp23102.011	Tucker	11	42		8	19	1301	e	8	19	1701	67 28.792	71 23.005	454	150	Daly			
nbp23102.012	MOC10	5	42		8	19	1349	s	8	19	1749	67 28.576	71 29.477	455	400	Torres			
nbp23102.013	MOC10	5	42		8	19	1459	e	8	19	1859	67 28.268	71 27.317	455	400	Torres			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp23102.014	bird obs	11	42 to 28		8	19	1504	s	8	19	1904	67 28.176	71 27.371			Ribic			
nbp23102.015	whale				8	19	1623	e	8	19	2023	67 27.028	71 28.483			Viddi			
nbp23102.016	BMP	14	~42		8	19	1652	s	8	19	2052	67 27.004	71 27.199	652		Wiebe			
nbp23102.017	bird obs	11	42 to 28		8	19	1703	e	8	19	2103	67 26.78	71 27.81			Ribic			
nbp23102.018	BMP	14	42		8	19	1900	e	8	19	2300	67 24.966	71 14.92	671		Wiebe			
nbp23202.001	ice coring		43	301.22	8	20	615	s	8	20	1015	67 15.948	72 32.842			Stewart			
nbp23202002	ROV	9	43	301.22	8	20	640	s	8	20	1040	67 15.705	72 31.354	413		Gallager			
nbp23202.003	ice coring		43	301.22	8	20	800	e	8	20	1200	67 14.936	72 29.977			Stewart			
nbp23202.004	whale		43	301.22	8	20	855	s	8	20	1255	67 14.551	72 29.394			Viddi			
nbp23202.005	ROV	9	43	301.22	8	20	1045	e	8	20	1445	67 13.357	72 28.287			Gallager			
nbp23202.006	CTD	32	43	301.22	8	20	1108	s	8	20	1508	67 13.24	72 28.20	413	200	Beardsley	CMiPS		
nbp23202.007	bird obs	12	to 44	301.22	8	20	1201	s	8	20	1601	67 12.869	72 28.028			Ribic			
nbp23202.008	CTD	32	43	301.22	8	20	1122	e	8	20	1522	67 13.24	72 28.20	413	200	Beardsley	CMiPS		
nbp23202.009	CTD	33	43	301.22	8	20	1127	s	8	20	1527	67 13.01	72 28.08	413	392	Beardsley			
nbp23202.010	CTD	33	43	301.22	8	20	1222	e	8	20	1622	67 13.01	72 28.08	413	392	Beardsley			
nbp23202.011	BMP	15	43/44		8	20	1530	s	8	20	1930	67 12.027	72 45.291	402		Wiebe			
nbp23202.012	whale				8	20	1704	e	8	20	2104	67 12.269	72 01.132			Viddi			
nbp23202.013	bird obs	12	to 44		8	20	1718	e	8	20	2118	67 11.887	73 03.548			Ribic			
nbp23202.014	BMP	15	44	301.27	8	20	1953	e	8	20	2353	67 7.30	73 22.00			Wiebe			
nbp23202.015	Tucker	12	44	301.27	8	20	2031	s	8	21	31	67 07.534	73 22.319	579	75	Daly			
nbp23202.016	Tucker	12	44	301.27	8	20	2047	e	8	21	47	67 07.595	73 20.680	1870	75	Daly			
nbp23202.017	MOC10	6	44	301.27	8	20	2155	s	8	21	158	67 09.236	73 14.654	552	1000	Torres			
nbp23302.001	MOC10	6	44	301.27	8	21	200	e	8	21	600	67 2.381	73 21.162	2000	1000	Torres			
nbp23302.002	ice coring		44	301.27	8	21	420	s	8	21	820	67 01.384	73 24.514			Stewart			
nbp23302.003	ROV	10	44	301.27	8	21	425	s	8	21	825	67 00.767	73 24.74			Gallagher			
nbp23302.004	ice coring		44	301.27	8	21	537	e	8	21	937	67 00.548	73 24.645			Stewart			
nbp23302.005	ROV	10	44	301.27	8	21	540	e	8	21	940	67 00.783	73 24.860			Gallagher			
nbp23302.006	CTD	.	44	301.27	8	21	1047	s	8	21	1447	66 59.25	73 23.97	3410	2000	Beardsley			
nbp23302.007	whale			301.27	8	21	850	s	8	21	1250	66 58.638	73 23.860			Viddi			
nbp23302.008	CTD	34	44	301.27	8	21	1250	e	8	21	1650	66 59.25	73 23.97	3410	2000	Beardsley			
nbp23302.009	bird obs	12	to 45		8	21	1004	s	8	21	1404	66 57.113	73 24.598			Ribic			
nbp23302.010	BMP	16	to 45		8	21	1319	s	8	21	1719	67 4.15	73 49.05	3477	250	Wiebe			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp23302.011	bird obs	12	45		8	21	1728	e	8	21	2128	67 13.92	74 29.568			Ribic			
nbp23302.012	BMP	16	t0 45		8	21	1731	e	8	21	2131	67 13.973	74 29.562			Wiebe			
nbp23302.013	whale				8	21	1743	e	8	21	2143	67 13.831	74 29.554			Viddi			
nbp23302.014	ice coring		45	261.3	8	21	1820	s	8	21	2220	67 13.998	74 29.921			Stewart			
nbp23302.015	ice coring		45	261.3	8	21	2000	e	8	22	0000	67 13.998	74 29.921			Stewart			
nbp23302.016	CTD	35	45	261.3	8	21	2058	s	8	22	0058	67 12.68	74 29.37	2971	2000	Salihoglu			
nbp23302.017	CTD	35	45	261.3	8	21	2239	e	8	22	0239	67 12.68	74 29.37	2971	2000	Salihoglu			
nbp23302.018	Tucker	13	45	261.3	8	21	2301	s	8	22	0301	67 12.371	74 28.104	2986	200	Daly	(200 m wire out)		
nbp23302.019	Tucker	13	45	261.3	8	21	2331	e	8	22	0331	67 11.598	74 28.756	3000	200	Daly			
nbp23302.020	Tucker	14	45	261.3	8	21	2353	s	8	22	0353	67 11.128	74 29.148	3000	900	Torres			
nbp23402.001	Tucker	14	45	261.3	8	22	127	e	8	22	0527	67 13.417	74 31.217	2910	900	Torres			
nbp23402.002	MOC1	7	45	261.3	8	22	202	s	8	22	0602	67 11.22	74 27.19	2834		Wiebe			
nbp23402.003	MOC1	7	45	261.3	8	22	446	s	8	22	0846	67 10.911	74 29.79			Wiebe			
nbp23402.004	ROV	11	45	261.3	8	22	515	s	8	22	0915	67 10.101	74 28.443			Gallager			
nbp23402.005	ROV	11	45	261.3	8	22	645	e	8	22	1045	67 10.101	74 28.443			Gallager			
nbp23402.006	BMP	17	to 46		8	22	730	s	8	22	1130	67 10.570	74 25.178	>3000		Wiebe			
nbp23402.007	bird obs	13	to 46		8	22	805	s	8	22	1205	67 12.732	74 22.379			Ribic			
nbp23402.008	whale				8	22	829	s	8	22	1229	67 14.079	74 20.277			Viddi			
nbp23402.009	bird obs	13	46		8	22	1547	e	8	22	1947	67 27.41	73 48.02			Ribic			
nbp23402.010	BMP	17	at 46		8	22	1555	e	8	22	1955	67 27.742	73 48.024	400	to 250	Wiebe			
nbp23402.011	whale				8	22	1600	e	8	22	2000	67 27.64	73 48.04			Viddi			
nbp23402.012	CTD	36	46	261.26	8	22	1629	s	8	22	2029	67 27.516	73 48.004	450	100	Salihoglu	no CTD data		
nbp23402.013	CTD	36	46	261.26	8	22	1648	e	8	22	2048	67 27.433	73 48.015	450	100	Salihoglu	no CTD data		
nbp23402.014	CTD	37	46	261.26	8	22	1650	s	8	22	2050	67 27.438	73 48.014	443	425	Salihoglu	bad dwcast		
nbp23402.015	CTD	37	46	261.26	8	22	1740	e	8	22	2140	68 27.438	74 48.014	443	425	Salihoglu	bad dwcast		
nbp23402.016	Tucker	15	46		8	22	1807	s	8	22	2207	67 27.389	74 48.455	335	200	Daly	200 m wire out		
nbp23402.017	Tucker	15	46		8	22	1831	e	8	22	2231	67 27.681	73 49.315	477	200	Daly			
nbp23402.018	Tucker	16	46		8	22	1845	s	8	22	2245	67 27.728	73 49.444	481	700	Torres			
nbp23402.019	Tucker	16	46		8	22	1957	e	8	22	2357	67 28.76	73 47.63	481	700	Torres			
nbp23402.020	Tucker	17	46		8	22	2004	s	8	23	0004	67 28.752	73 47.701		600	Torres			
nbp23402.021	Tucker	17	46		8	22	2107	e	8	23	107	67 29.143	73 52.137		600	Torres			
nbp23402.022	BMP	18	46-47		8	22	2301	S	8	23	301	67 27.947	74 09.668	513	~150	Wiebe			
NBP23502.001	XCTD	1	46-64		8	23	112	s/e	8	23	512	67 29.827	74 26.275			Beardsley	failed		

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp23502.002	XBT-7	91	46-64		8	23	113	s/e	8	23	513	67 29.821	74 26.331			Beardsley	failed		
nbp23502.003	XCTD	2	46-64		8	23	115	s/e	8	23	515	67 29.810	74 26.410			Beardsley	failed		
nbp23502.004	BMP	18	46-64		8	23	655	s	8	23	1055	67 30.65	74 55.21			Wiebe			
nbp23502.005	whale				8	23	840	s	8	23	1240	67 31.08	75 6.008			Viddi			
nbp23502.006	ice coring		64	221.3	8	23	845	s	8	23	1245	67 30.937	75 5.556			Stewart			
nbp23502.007	ROV	12	64	221.3	8	23	857	s	8	23	1257	67 30.819	75 6.352			Gallager			
nbp23502.008	ice coring		64	221.3	8	23	1045	e	8	23	1445	67 30.973	75 5.556			Stewart			
nbp23502.009	ROV	12	64	221.3	8	23	1015	e	8	23	1415	67 30.819	75 6.352			Gallager			
nbp23502.010	CTD	38	64	221.3	8	23	1121	s	8	23	1521	67 31.06	75 5.83	2954	100	Beardsley			
nbp23502.011	CTD	38	64	221.3	8	23	1134	e	8	23	1534	67 31.01	75 5.83	2954	100	Beardsley			
nbp23502.012	CTD	39	64	221.3	8	23	1202	s	8	23	1602	67 31.01	75 5.84	2933	2923	Hofmann			
nbp23502.013	CTD	39	64	221.3	8	23	1434	e	8	23	1834	67 31.01	75 5.48	2933	2923	Hofmann			
nbp23502.014	Tucker	18	64	221.3	8	23	1507	s	8	23	1907	67 32.416	75 4.552	2916	500	Daly			
nbp23502.015	bird obs	14	to 63		8	23	1541	s	8	23	1941	67 30.667	75 02.226			Ribic			
nbp23502.016	Tucker	18	64		8	23	1605	e	8	23	2005	67 30.477	75 59.996	2911	500	Daly			
nbp23502.017	BMP	19	64-63		8	23	1630	e	8	23	2030	67 30.196	74 57.976	2942	200	Wiebe			
nbp23502.018	bird obs	14	to 63		8	23	1753	s	8	23	2153	67 38.977	74 48.140			Ribic			
nbp23502.019	whale				8	23	1755	e	8	23	2155	67 33.937	74 47.801			Viddi			
nbp23502.020	BMP	19	64-63		8	23	2110	e	8	24	110	67 40.390	74 34.988	2659	200	Wiebe			
nbp23502.021	CTD	40	63	221.27	8	23	2148	s	8	24	148	67 40.49	74 35.00	2552	2532	Salihoglu			
nbp23502.022	CTD	40	63	221.27	8	23	2351	e	8	24	351	67 40.49	74 35.00	2552	2532	Salihoglu			
nbp23602.001	BMP	20	63-62		8	24	0005	s	8	24	405	67 40.301	74 34.956	2561	200	Wiebe			
nbp23602.002	BMP	20	62		8	24	629	e	8	24	1029	67 46.718	74 24.077	1000		Wiebe			
nbp23602.003	whale		62		8	24	823	s	8	24	1223	67 48.067	74 12.233			Viddi			
nbp23602.004	ROV	13	62		8	24	918	s	8	24	1318	67 48.776	74 11.335			Gallager			
nbp23602.005	Ice coring		62		8	24	920	s	8	24	1320	67 48.769	74 11.352			Stewart			
nbp23602.006	ice coring		62		8	24	1020	e	8	24	1420	67 48.869	74 11.132			Stewart			
nbp23602.007	ROV	13	62		8	24	1030	e	8	24	1430	67 48.869	74 11.132			Gallager			
nbp23602.008	CTD	41	62	220.24	8	24	1138	s	8	24	1538	67 49.07	74 10.60	1091	1085	Salihoglu			
nbp23602.009	bird obs	15	62 to 48		8	24	1223	s	8	24	1623	67 49.121	74 10.507			Ribic			
nbp23602.010	CTD	41	62	220.24	8	24	1249	e	8	24	1649	67 49.07	74 10.60	1091	1085	Salihoglu			
nbp23602.011	BMP	21	62 to 48		8	24	1420	s	8	24	1820	67 49.406	73 53.456	768		Wiebe			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp23602.012	whale				8	24	1713	e	8	24	2113	67 50.971	73 19.705			Viddi			
nbp23602.013	BMP	21	62 to 48		8	24	1715	e	8	24	2115	67 51.012	73 19.567	410	350	Wiebe			
nbp23602.014	bird obs	15	62 to 48		8	24	1716	e	8	24	2116	67 51.032	73 19.504			Ribic			
nbp23602.015	Tucker	19	62		8	24	1735	s	8	24	2135	67 51.269	73 18.707		500	Torres			
nbp23602.016	Tucker	19	62		8	24	1836	e	8	24	2236	67 52.219	73 12.4			Torres			
nbp23602.017	MOC 1	8	62-48		8	24	1920	s	8	24	2320	67 52.151	73 09.86			Wiebe			
nbp23602.018	MOC 1	8	62-48		8	24	2040	e	8	25	40	67 53.221	73 05.88			Wiebe			
nbp23602.019	MOC 10	7	62-48		8	24	2132	s	8	25	132	67 53.216	73 05.875	376	250	Torres			
nbp23602.020	MOC 10	7	62-48		8	24	2230	e	8	25	230	67 54.616	73 2.032	376	250	Torres			
nbp23602.021	Tucker	20	62 to 48		8	24	2258	s	8	25	258	67 54.724	73 01.255	235	100	Daly	tow-yo		
nbp23702.001	Tucker	20	62 to 48		8	25	0001	e	8	25	401	67 55.375	72 56.003	216	100	Daly			
nbp23702.002	BMP	22	62 to 48		8	25	107	s	8	25	507	67 55.053	72 52.757	406	160	Wiebe			
nbp23702.003	BMP	22	62 to 48		8	25	406	e	8	25	806	67 53.922	72 16.808	303	160	Wiebe			
nbp23702.004	CTD	42	48		8	25	450	s	8	25	850	67 53.76	72 14.47	303	200	Beardsley	CMiPS		
nbp23702.005	CTD	42	48		8	25	503	e	8	25	903	67 53.76	72 14.47	303	200	Beardsley			
nbp23702.006	CTD	43	48		8	25	510	s	8	25	910	67 53.65	72 14.19	303	291	Beardsley	FRRF,CMiPS		
nbp23702.007	CTD	43	48		8	25	553	e	8	25	953	67 53.65	72 14.19	303	291	Beardsley			
nbp23702.008	BMPII	23	48 to 49		8	25	628	s	8	25	1028	67 52.350	72 11.255			Wiebe			
nbp23702.009	bird obs	16	48 to 49		8	25	753	s	8	25	1153	67 5.224	72 05.157			Ribic			
nbp23702.010	whale		48 to 49		8	25	833	s	8	25	1233	67 58.277	72 06.988			Viddi			
nbp23702.011	bird obs	16	48 to 49		8	25	1330	e	8	25	1730	68 04.705	71 37.243			Ribic			
nbp23702.012	BMP	23	49	261.140	8	25	1330	e	8	25	1730	68 4.629	71 36.271			Wiebe			
nbp23702.013	CTD	44	49	261.140	8	25	1409	s	8	25	1809	68 4.60	71 36.20	465	200	Hofmann	CMiPS		
nbp23702.014	CTD	44	49	261.140	8	25	1421	e	8	25	1821	68 4.60	71 36.20	465	200	Hofmann	CMiPS		
nbp23702.015	CTD	45	49	261.140	8	25	1426	s	8	25	1826	68 4.47	71 35.92	431	429	Thompson	FRRF,CMiPS		
nbp23702.016	CTD	45	49	261.140	8	25	1523	e	8	25	1923	68 4.47	71 35.92	431	429	Thompson	FRRF,CMiPS		
nbp23702.017	ice coring		49		8	25	1610	s	8	25	2010	68 03.714	71 34.370			Stewart			
nbp23702.018	whale				8	25	1705	e	8	25	2105	68 03.282	71 33.763			Viddi			
nbp23702.019	ROV	14	49		8	25	1720	s	8	25	2120	68 03.083	71 33.400			Gallager			
nbp23702.020	ice coring		49		8	25	1730	e	8	25	2130	68 03.083	71 33.400			Stewart			
nbp23702.021	ROV	14	49		8	25	1845	e	8	25	2245	68 02.800	71 32.913			Gallager			
nbp23702.022	Reeve	1	49		8	25	1845	s	8	25	2245	68 02.627	71 32.795	409	125	Daly			
nbp23702.023	Reeve	1	49		8	25	1903	e	8	25	2303	68 02.483	71 32.564	409	125	Daly			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp23702.024	Ring net	3	49		8	25	1940	s	8	25	2340	68 02.538	71 32.648		80	Ribic			
nbp23702.025	Ring net	3	49		8	25	1952	e	8	25	2352	68 02.379	71 33.233		80	Ribic			
nbp23702.026	Tucker	21	49		8	25	2009	s	8	26	0009	68 2.227	71 33.236			Torres			
nbp23702.027	Tucker	21	49		8	25	2015	e	8	26	0015	68 2.227	71 33.236			Torres			
nbp23702.028	Tucker	22	49		8	25	2100	s	8	26	0100	68 2.227	71 33.231		250	Torres			
nbp23702.029	Tucker	22	49		8	25	2155	e	8	26	0155	67 59.990	71 33.814		250	Torres			
nbp23702.030	BMP	24	49 to 40		8	25	2150	s	8	26	0150	67 59.990	71 33.814	345	200	Wiebe			
nbp23802.001	BMP	24	49 to 40		8	26	800	e	8	26	1200	68 04.500	70 28.407	~500	200	Wiebe			
nbp23802.002	bird obs	17	49 to 40		8	26	806	s	8	26	1206	68 04.607	70 29.243			Ribic			
nbp23802.003	whale				8	26	827	s	8	26	1227	68 4.321	70 28.351			Viddi			
nbp23802.004	bird obs	17	49 to 40		8	26	902	e	8	26	1302	68 02.000	70 23.763			Ribic			
nbp23802.005	CTD	46	40	301.100	8	26	942	s	8	26	1342	68 2.00	70 23.76	863	200	Beardsley	CMiPS		
nbp23802.006	CTD	46	40	301.100	8	26	953	e	8	26	1353	68 2.00	70 23.76						
nbp23802.007	CTD	47	40	301.100	8	26	958	s	8	26	1358	68 2.00	70 23.96	863	832	Beardsley			
nbp23802.008	CTD	47	40	301.100	8	26	1113	e	8	26	1513	68 2.00	70 23.96						
nbp23802.009	Dive		40	301.100	8	26	1133	s	8	26	1533	68 2.00	70 23/96			Torres			
nbp23802.010	bird obs	18	40 to 28		8	26	1324	s	8	26	1724	68 01.904	70 23.117			Ribic			
nbp23802.011	Dive		40	301.100	8	26	1330	e	8	26	1730	68 2.00	70 23.96			Torres			
nbp23802.012	BMP	25	40 to 28		8	26	1409	s	8	26	1809	68 2.483	70 27.971	819		Wiebe			
nbp23802.013	whale		40 to 28		8	26	1637	e	8	26	2037	67 58.925	70 33.699			Viddi			
nbp23802.014	bird obs	18	40 to 28		8	26	1655	e	8	26	2055	67 59.99	70 33.59			Ribic			
nbp23802.015	BMP	25	40 to 28		8	26	1725	e	8	26	2125	67 59.072	70 33.444	~900	170	Wiebe	too much backing and ramming - Broken strands		
nbp23902.001	bird obs	19	40 to 28		8	27	805	s	8	26	1205	68 00.580	70 32.505			Ribic			
nbp23902.002	whale				8	27	833	s	8	27	1233	68 00.614	70 33.387			Viddi			
nbp23902.003	bird obs	19	40 to 28		8	27	920	e	8	27	1320	68 00.826	70 33.463			Ribic			
nbp23902.004	bird obs	20	40 to 28		8	27	1208	s	8	27	1608	68 01.24	70 42.94			Ribic			
nbp23902.005	whale				8	27	1706	e	8	27	2106	67 57.704	70 49.709			Viddi			
nbp23902.006	bird obs	20	40 to 28		8	27	1711	e	8	27	2111	67 57.72	70 49.69			Ribic			
nbp23902.007	ice coring		40 to 28		8	27	2000	s	8	28	0000	67 56.241	70 53.859	446		Stewart			
nbp23902.008	ROV	15	40 to 28		8	27	2005	e	8	28	0005	67 56.241	70 53.859	446	4	Gallager			
nbp23902.009	ice coring		40 to 28		8	27	2100	s	8	28	0100	67 56.232	70 53.773	446		Stewart			
nbp23902.010	ROV	15	40 to 28		8	27	2105	e	8	28	0105	67 56.232	70 53.773	446	4	Gallager			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp23902.011	Reeve	2	40 to 28		8	27	2130	s	8	28	0130	67 56.813	70 53.813	445	200	Daly			
nbp23902.012	Reeve	2	40 to 28		8	27	2207	e	8	28	0207	67 56.240	70 53.608	445	200	Daly			
nbp23902.013	Ring net	4	40 to 28		8	27	2208	s	8	28	0208	67 56.240	70 53.603	446	400	Alatalo			
nbp23902.014	Ring net	4	40 to 28		8	27	2245	e	8	28	0245	67 56.244	70 53.511	446	400	Alatalo			
nbp23902.015	XBT-4	92	40 to 28		8	27	2341	s/e	8	28	0341	67 56.234	70 59.924	380		Hofmann	bad cast		
nbp23902.016	XBT-4	93	40 to 28		8	27	2345	s/e	8	28	0345	67 56.231	70 59.953	380		Hofmann	bad cast		
nbp24002.001	CTD	48	41	301.140	8	28	605	s	8	28	1005	67 49.96	71 14.44	375	350	Beardsley	CMiPS		
nbp24002.002	CTD	48	41	301.140	8	28	623	e	8	28	1023	67 49.96	71 14.44	375	350	Beardsley			
nbp24002.003	CTD	49	41	301.140	8	28	628	s	8	28	1028	67 49.81	71 14.34	380	361	Beardsley			
nbp24002.004	CTD	49	41	301.140	8	28	712	e	8	28	1112	67 49.81	71 14.34	380	361	Beardsley			
nbp24002.005	bird obs	21	41 to 26		8	28	755	s	8	28	1155	67 49.012	71 19.829			Ribic			
nbp24002.006	whale				8	28	813	s	8	28	1213	67 48.888	71 20.429			Viddi			
nbp24002.007	bird obs	21	41 to 26		8	28	1707	e	8	28	2107	67 30.550	71 40.289			Ribic			
nbp24002.008	whale				8	28	1721	e	8	28	2121	67 30.457	71 40.153			Viddi			
nbp24102.001	ice coring		26	341.220	8	29	400	s	8	29	800	67 6.821	72 0.223			Stewart			
nbp24102.002	ROV	16	26	341.220	8	29	425	s	8	29	825	67 6.827	72 00.226			Gallager			
nbp24102.003	ice coring		26	341.220	8	29	545	e	8	29	945	67 7.076	72 0.203			Stewart			
nbp24102.004	ROV	16	26	341.220	8	29	555	e	8	29	955	67 07.076	72 00.203			Gallager			
nbp24102.005	CTD	50	26	341.220	8	29	716	s	8	29	1116	67 07.43	72 00.25	424		Beardsley	CMiPS		
nbp24102.006	CTD	50	26	341.220	8	29	725	e	8	29	1125	67 07.43	72 00.25	424		Beardsley	CMiPS		
nbp24102.007	CTD	51	26	341.220	8	29	746	s	8	29	1146	67 07.54	72 00.21	425	405	Beardsley			
nbp24102.008	bird obs	22	26 to 25		8	29	808	s	8	29	1208	67 07.621	72 0.199			Ribic			
nbp24102.009	CTD	51	26	341.220	8	29	818	e	8	29	1218	67 07.54	72 00.21	425	405	Beardsley			
nbp24102.010	Reeve net	3	26	341.220	8	29	834	s	8	29	1234	67 07.687	72 00.220	426		Gallager			
nbp24102.011	whale				8	29	855	s	8	29	1255	67 07.799	72 00.206			Viddi			
nbp24102.012	Reeve net	3	26	341.220	8	29	907	e	8	29	1307	67 07.798	72 00.248	426		Gallager			
nbp24102.013	MOC-1	9	26	341.220	8	29	1010	s	8	29	1410	67 07.751	72 03.14	426		Wiebe			
nbp24102.014	MOC-1	9	26	341.220	8	29	1301	e	8	29	1701	67 06.11	72 06.6	426		Wiebe			
nbp24102.015	ice dive		26	341.220	8	29	1359	s	8	29	1759	67 07.1	72 08.0	426		Torres			
nbp24102.016	CTD	52	26	341.220	8	29	1423	s	8	29	1823	67 7.30	72 8.32	426	300	Hofmann	CMiPS		
nbp24102.017	CTD	52	26	341.220	8	29	1440	e	8	29	1840	67 7.30	72 8.32	426	300	Hofmann	CMiPS		
nbp24102.018	CTD	53	26	341.220	8	29	1442	s	8	29	1842	67 7.46	72 8.52	426	300	Salihoglu	CMiPS		

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24102.019	CTD	53	26	341.220	8	29	1458	e	8	29	1858	67 7.46	72 8.52	426	300	Salihoglu	CMiPS		
nbp24102.020	CTD	54	26	341.220	8	29	1500	s	8	29	1900	67 7.62	72 8.79	426	300	Salihoglu	CMiPS		
nbp24102.021	CTD	54	26	341.220	8	29	1517	e	8	29	1917	67 7.62	72 8.79	426	300	Salihoglu	CMiPS		
nbp24102.022	CTD	55	26	341.220	8	29	1518	s	8	29	1918	67 7.79	72 8.91	429	300	Salihoglu	CMiPS		
nbp24102.023	CTD	55	26	341.220	8	29	1536	e	8	29	1936	67 7.79	72 8.91	429	300	Salihoglu	CMiPS		
nbp24102.024	ice dive		26	341.220	8	29	1545	e	8	29	1945	67 8.036	72 9.178	429		Torres			
nbp24102.025	Tucker	23	26	341.220	8	29	1630	s	8	29	2030	67 08.218	72 08.876	430		Daly	50m wire out		
nbp24102.026	Tucker	23	26	341.220	8	29	1704	e	8	29	2104	67 08.218	72 08.813	430		Daly			
nbp24102.027	Tucker	24	26	341.220	8	29	1707	s	8	29	2107	67 09.406	72 08.945	430		Daly	50 m wire out		
nbp24102.028	whale				8	29	1740	e	8	29	2140	67 09.713	72 08.215			Viddi			
nbp24102.029	bird obs	22	26		8	29	1740	e	8	29	2140	67 09.713	72 08.215			Ribic			
nbp24102.030	Tucker	24	26	341.220	8	29	1740	e	8	29	2140	67 09.713	72 08.215	430		Daly			
nbp24102.031	Tucker	25	26	341.220	8	29	1745	s	8	29	2145	67 09.713	72 08.215	430		Daly	30 m wire out		
nbp24102.032	Tucker	25	26	341.220	8	29	1815	e	8	29	2215	67 10.849	72 07.617	430		Daly			
nbp24102.033	Tucker	26	26	341.220	8	29	1830	s	8	29	2230	67 10.610	72 07.930	430		Torres	500 m wire out		
nbp24102.34	Tucker	26	26	341.220	8	29	1915	e	8	29	2315	67 10.256	72 10.814	430		Torres			
nbp24102.35	Ring/ Reeve	1	26	341.220	8	29	2025	s	8	30	25	67 10.921	72 11.457	430		Daly	1 m Ring Net & Reeve Net, 3 & 5 m		
nbp24102.36	Ring/ Reeve	1	26	341.220	8	29	2130	e	8	30	130	67 10.924	72 12.368	430		Daly			
nbp24102.37	BMP	26	26 to G		8	29	2215	s	8	30	215	67 10.689	72 12.386	430	~125	Wiebe			
nbp24202.001	BMP	26	26 to G		8	30	30	e	8	30	430	67 07.934	72 18.543	425		Wiebe			
nbp24202.002	XBT-4	94			8	30	309	s/e	8	30	709	67 2.198	72 24.18	408	139	Beardsley	bad		
nbp24202.003	XBT-4	95			8	30	311	s/e	8	30	711	67 2.123	72 24.217	408	123	Beardsley	bad		
nbp24202.004	XBT-4	96			8	30	314	s/e	8	30	714	67 1.975	72 24.196	408	79	Beardsley	bad		
nbp24202.005	XBT-4	97			8	30	325	s/e	8	30	725	67 1.391	72 23.729	410	410	Beardsley	bad		
nbp24202.006	XBT-7	98			8	30	546	s/e	8	30	946	66 51.77	72 18.12	429	386	Beardsley	bad		
nbp24202.007	bird obs	23	26 to G		8	30	741	s	8	30	1141	66 45.318	72 03.218			Ribic			
nbp24202.008	XBT-4	99			8	30	757	s/e	8	30	1157	66 44.24	72 2.05	313	208	Beardsley			
nbp24202.009	Whale				8	30	802	s	8	30	1202	66 43.916	72 01.421			Viddi			
nbp24202.010	XBT-4	100			8	30	808	s/e	8	30	1208	66 43.78	72 1.17	315	122	Beardsley	bad		
nbp24202.011	XBT-4	101	near 23		8	30	1440	s/e	8	30	1840	66 42.94	72 2.54	1500	460	Hofmann	too warm		
nbp24202.012	Ring/ Reeve	2	near 23		8	30	1441	s	8	30	1841	66 43.085	72 2.699	1507	10	Torres			
nbp24202.013	Whale				8	30	1632	e	8	30	2032	66 44.706	72 04.128			Viddi			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24202.014	bird obs	23	26 to G		8	30	1632	e	8	30	2032	66 44.706	72 04.128				Ribic		
nbp24202.015	Ring/ Reeve	2	near 23		8	30	1633	s	8	30	2033	66 44.706	72 04.128	1507	10		Torres		
nbp24302.001	XBT-7	102	23 to G		8	31	130	s/e	8	31	530	66 45.77	71 37.49	496	496		Hofmann		
nbp24302.002	XBT-7	103	23 to G		8	31	425	s/e	8	31	825	66 43.78	71 11.36	475	84		Beardsley		
nbp24302.003	XBT-7	104	23 to G		8	31	427	s/e	8	31	827	66 43.77	71 11.29	475	462		Beardsley		
nbp24302.004	whale		Gould to 4		8	31	824	s	8	31	1224	66 46.892	71 7.481				Viddi		
nbp24302.005	bird obs	24	Gould to 4		8	31	1039	s	8	31	1439	66 47.56	71 08.19				Ribic		
nbp24302.006	penguin tag		Gould to 4		8	31	1245	s	8	31	1645	66 45.874	70 55.087	516			Fraser		
nbp24302.007	Ring/ Reeve	3	Gould to 4		8	31	1319	s	8	31	1719	66 45.847	70 55.087	516	30		Daly		
nbp24302.008	penguin tag		Gould to 4		8	31	1330	e	8	31	1730	66 45.878	70 55.044	516			Fraser		
nbp24302.009	Ring/ Reeve	3	Gould to 4		8	31	1335	e	8	31	1735	66 45.878	70 55.044	516	30		Daly		
nbp24302.010	XBT-7	105	Gould to 4		8	31	1441	s/e	8	31	1841	66 42.706	70 48.366	550	205		Hofmann	wire broke	
nbp24302.011	XBT-7	106	Gould to 4		8	31	1443	s/e	8	31	1843	66 42.573	70 42.573	546	535		Hofmann	good cast	
nbp24302.012	XBT-7	107	Gould to 4		8	31	1628	s/e	8	31	2028	66 34.845	70 28.504	590	590		Hofmann	good cast	
nbp24302.013	whale				8	31	1708	e	8	31	2108	66 31.991	70 21.826				Viddi		
nbp24302.014	bird obs	24	Gould to 4		8	31	1752	e	8	31	2152	66 30.02	70 11.85				Ribic		
nbp24302.015	XBT-7	108	Gould to 4		8	31	1813	s/e	8	31	2213	66 28.71	70 7.95	538	538		Salihoglu	good cast	
nbp24302.016	XBT-4	109	Gould to 4		8	31	2006	s/e	9	1	6	66 22.29	69 48.71	452	200		Salihoglu	wire broke	
p24302.017	XBT-4	110	Gould to 4		8	31	2008	s/e	9	1	8	66 22.24	69 48.48	452	400		Salihoglu	good cast	
nbp24302.018	XBT-4	111	Gould to 4		8	31	2221	s/e	9	1	221	66 15.94	69 29.18	420	420		Salihoglu	good cast	
nbp24402.001	Ring/ Reeve	4	4	501.180	9	1	46	s	9	1	446	66 10.44	69 05.92	350	10 and 20		Daly	good cast	
nbp24402.002	Ring/ Reeve	4	4	501.180	9	1	145	e	9	1	545	66 9.830	69 4.797				Daly		
nbp24402.003	ROV	17	4	501.180	9	1	452	s	9	1	653	66 9.830	69 4.797	350	10		Gallager		

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24402.011	bird obs	25	4 to 3		9	1	822	s	9	1	1222	66 10.475	69 04.471			Ribic			
nbp24402.012	MOC-1	10	4	501.180	9	1	823	e	9	1	1223	66 10.5	69 4.5			Wiebe			
nbp24402.013	BMP	27	4 to 3		9	1	912	s	9	1	1313	66 10.200	69 6.008	350		Wiebe			
nbp24402.014	BMP	27	4 to 3		9	1	1246	e	9	1	1646	66 1.265	69 36.883	350		Wiebe			
nbp24402.015	BMP	28	3	501.220	9	1	1258	s	9	1	1658	66 1.501	69 36.524	342		Wiebe			
nbp24402.016	CTD	58	3	501.220	9	1	1459	s	9	1	1859	66 57.34	69 49.02	345	200	Salihoglu	CMiPS		
nbp24402.017	CTD	58	3	501.220	9	1	1513	e	9	1	1913	66 57.34	69 49.02	345	200	Salihoglu	CMiPS		
nbp24402.018	CTD	59	3	501.220	9	1	1514	s	9	1	1914	66 57.19	69 49.09	345	342	Salihoglu			
nbp24402.019	CTD	59	3	501.220	9	1	1549	e	9	1	1949	66 57.19	69 49.09	345	342	Salihoglu			
nbp24402.020	bird obs	25	3 to 2		9	1	1749	e	9	1	2149	65 51.89	70 07.36			Ribic			
nbp24402.021	whale		3 to 2		9	1	1754	e	9	1	2154	65 51.714	70 08.079			Viddi			
nbp24402.022	BMP	28	2	500.25	9	1	1945	e	9	1	2345	65 48.303	70 22.422			Wiebe			
nbp24402.023	ice collect.		2	500.25	9	1	2010	s	9	1	10	65 47.765	70 22.281	869		Stewart			
nbp24402.024	ice collect.		2	500.25	9	1	2145	e	9	2	145	65 46.32	70 20.76			Stewart			
nbp24402.025	CTD	60	2	500.25	9	1	2215	s	9	2	215	65 47.23	70 17.79	820	804	Salihoglu			
nbp24402.026	CTD	60	2	500.25	9	1	2317	e	9	2	317	65 47.23	70 17.79	820	804	Salihoglu			
nbp24402.027	MOC 10	8	2	500.25	9	1	2330	s	9	2	330	65 47.23	70 17.79	820	n/a	Torres	Lost communication, needs retermination		
nbp24402.028	MOC 10	8	2	500.25	9	1	2359	e	9	2	359	65 47.23	70 17.79	820		Torres			
nbp24502.001	BMP	29	2 to 1		9	2	110	s	9	2	510	65 44.098	70 22.936	820		Wiebe			
nbp24502.002	BMP	29	1		9	2	238	e	9	2	638	65 39.121	70 37.478			Wiebe			
nbp24502.003	CTD	61	1	507.27	9	2	510	s	9	2	910	65 37.34	70 36.81	3218	100	Beardsley			
nbp24502.004	CTD	61	1	507.27	9	2	520	e	9	2	920	65 37.34	70 36.81	3218	100	Beardsley	FRRF		
nbp24502.005	CTD	62	1	507.27	9	2	708	s	9	2	1108	65 37.22	70 36.58	3225	3217	Beardsley			
nbp24502.006	bird obs	26	1 to 13		9	2	823	s	9	2	1223	65 37.11	70 35.61			Ribic			
nbp24502.007	whale obs		1 to 13		9	2	831	s	9	2	1231	65 37.060	70 35.540			Viddi			
nbp24502.008	CTD	62	1	507.27	9	2	840	e	9	2	1240	65 37.22	70 36.58	3225	3217	Beardsley			
nbp24502.009	BMP	30	1 to 13		9	2	910	s	9	2	1310	65 36.694	70 34.872	3000	100	Wiebe			
nbp24502.010	bird obs	26	1 to 13		9	2	1445	e	9	2	1845	65 59.89	71 02.34			Ribic			
nbp24502.011	BMP	30	1 to 13		9	2	1450	e	9	2	1850	65 56.474	71 02.254	>3000	~100	Wiebe			
nbp24502.012	MOC 10	9	1 to 13		9	2	1507	s	9	2	1907	65 57.16	71 02.845	3562	1000	Torres			
nbp24502.013	whale obs		1 to 13		9	2	1744	e	9	2	2144	66 01.551	71 10.032			Viddi			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24502.014	MOC 10	9	1 to 13		9	2	1949	e	9	2	2349	66 04.59	71 16.73					Torres	
nbp24502.015	Ring/Reeve	5	13	459.27	9	2	2100	s	9	3	100	66 1.575	71 10.166	3119	10			Daly	
nbp24502.016	Ring/Reeve	5	13	459.27	9	2	2212	e	9	3	212	66 1.533	71 11.238	3138	10			Daly	
nbp24502.017	CTD	63	13	459.27	9	2	2342	s	9	3	242	66 0.45	71 8.71	2944	2934			Hofmann	
nbp24602.001	CTD	63	13	459.27	9	3	110	e	9	3	510	66 0.45	71 8.71	2944	2934			Hofmann	
nbp24602.002	ROV	18	13	459.27	9	3	139	s	9	3	439	65 59.653	71 1.877	3010				Gallager	
nbp24602.003	ROV	18	13	459.27	9	3	303	e	9	3	703	65 59.653	71 1.877	3010				Gallager	
nbp24602.004	BMP	31	13 to 12		9	3	315	s	9	3	715	65 59.649	71 01.455	2930				Wiebe	
nbp24602.005	BMP	31	13 to 12		9	3	450	e	9	3	850	66 05.574	70 53.650	1145				Wiebe	
nbp24602.006	ice coring		12	460.250	9	3	500	s	9	3	900	66 6.021	70 51.942					Stewart	
nbp24602.007	ice coring		12	460.250	9	3	650	e	9	3	1050	66 6.0	70 51.9					Stewart	
nbp24602.008	ROV	19	12	460.250	9	3	710	s	9	3	1110	66 06.163	70 52.343					Gallager	
nbp24602.009	ROV	19	12	460.250	9	3	756	e	9	3	1156	66 06.163	70 52.343					Gallager	
nbp24602.010	Whale obs.		12 to 11	460.250	9	3	810	s	9	3	1210	65 05.309	70 51.337					Viddi	
nbp24602.011	CTD		12	460.250	9	3	835	s	9	3	1235	66 5.39	70 51.96	899	895			Beardsley	
nbp24602.012	CTD		12	460.250	9	3	950	e	9	3	1350	66 5.39	70 51.96	899	895			Beardsley	
nbp24602.013	bird obs	27	12 to 11		9	3	1017	s	9	3	1417	66 05.441	70 50.189					Ribic	
nbp24602.014	BMP	32	12 to 11		9	3	1030	s	9	3	1430	66 5.789	70 49.582	559	100			Wiebe	
nbp24602.015	BMP	32	11		9	3	1400	e	9	3	1800	66 14.56	70 22.60					Wiebe	
nbp24602.016	penguin tag		11		9	3	1424	s	9	3	1824	66 13.955	70 22.350	467				Fraser	
nbp24602.017	penguin tag		11		9	3	1640	e	9	3	2040							Fraser	
nbp24602.018	CTD	65	11	461.22	9	3	1710	s	9	3	2110	66 13.65	70 23.56	467	200			Salihoglu	
nbp24602.019	CTD	65	11	461.22	9	3	1721	e	9	3	2121	66 13.65	70 23.56	467	200			Salihoglu	
nbp24602.020	CTD	66	11	461.22	9	3	1721	s	9	3	2121	66 13.61	70 23.70	467	446			Salihoglu	
nbp24602.021	CTD	66	11	461.22	9	3	1800	e	9	3	2200	66 13.61	70 23.70	467	446			Salihoglu	
nbp24602.022	Whale obs.		11	461.22	9	3	1742	e	9	3	2142	66 13.590	70 23.785					Viddi	
nbp24602.023	bird obs	27	12 to 11	461.22	9	3	1742	e	9	3	2142	66 13.590	70 23.785					Ribic	
nbp24602.024	MOC1	11	11	461.22	9	3	1830	s	9	3	2230	66 13.5	70 23.6	463	425			Wiebe	
nbp24602.025	MOC1	11	11	461.22	9	3	2045	e	9	4	45	66 15.61	70 18.53	463				Wiebe	

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24602.026	Ring/Reeve	6	11	461.22	9	3	2107	s	9	4	107	66 15.572	70 18.548	698	5+10	Daly			
nbp24602.027	Ring/Reeve	6	11	461.22	9	3	2215	e	9	4	215	66 15 301	70 19.458	698	5 + 10	Daly			
nbp24602.028	Tucker Trawl	27	11	461.22	9	3	2230	s	9	4	230	66 15.61	70 18.53	464	250	Torres			
nbp24602.029	Tucker Trawl	27	11	461.22	9	3	2320	e	9	4	320	66 14.209	70 21.292	464	250	Torres			
nbp24602.030	BMP	33	11 to 10		9	3	2344	s	9	4	344	66 14.209	70 21.298	464	100	Wiebe			
nbp24702.001	BMP	33	11 to 10	461.180	9	4	500	e	9	4	900	66 26.367	69 39.493	489	125	Wiebe			
nbp24702.002	CTD	67	10	461.180	9	4	606	s	9	4	1006	66 27.29	69 37.41	503	350	Beardsley	CMiPS		
nbp24702.003	CTD	67	10	461.180	9	4	623	e	9	4	1023	66 27.29	69 37.41	503	350	Beardsley	CMiPS		
nbp24702.004	CTD	68	10	461.180	9	4	633	s	9	4	1033	66 27.20	69 37.25	503	484	Beardsley			
nbp24702.005	CTD	68	10	461.180	9	4	730	e	9	4	1130	66 27.20	69 37.25	503	484	Beardsley			
nbp24702.006	bird obs	28	10 to 16		9	4	730	s	9	4	1130	66 27.11	69 37.00			Ribic			
nbp24702.007	whale obs		10 to 16		9	4	756	s	9	4	1156	66 27.390	69 37.232			Viddi			
nbp24702.008	BMP	34	10 to 16		9	4	800	s	9	4	1200	66 27.380	69 37.212						
nbp24702.009	BMP	34	10 to 16		9	4	1352	e	9	4	1752	66 45.231	70 9.954	528	125	Wiebe			
nbp24702.010	bird obs	28	10 to 16		9	4	1401	e	9	4	1801	66 45.231	70 09.954			Ribic			
nbp24702.011	ice dive		16	421.180	9	4	1430	s	9	4	1830	66 45.06	70 10.03			Torres			
nbp24702.012	CTD	69	16	421.180	9	4	1443	s	9	4	1843	66 45.06	70 10.03	519	330	Salihoglu	CMiPS		
nbp24702.013	CTD	69	16	421.180	9	4	1507	e	9	4	1907	66 45.06	70 10.03	519	330	Salihoglu	CMiPS		
nbp24702.014	CTD	70	16	421.180	9	4	1508	s	9	4	1908	66 44.99	70 10.08	517	350	Salihoglu	CMiPS		
nbp24702.015	CTD	70	16	421.180	9	4	1525	e	9	4	1925	66 44.99	70 10.08	517	350	Salihoglu	CMiPS		
nbp24702.016	CTD	71	16	421.180	9	4	1527	s	9	4	1927	66 44.94	70 10.14	516	350	Salihoglu	CMiPS		
nbp24702.017	CTD	71	16	421.180	9	4	1547	e	9	4	1947	66 44.94	70 10.14	516	350	Salihoglu	CMiPS		
nbp24702.018	CTD	72	16	421.180	9	4	1547	s	9	4	1947	66 44.89	70 10.19	515	350	Salihoglu	CMiPS		
nbp24702.019	CTD	72	16	421.180	9	4	1607	e	9	4	2007	66 44.89	70 10.19	515	350	Salihoglu	CMiPS		
nbp24702.020	CTD	73	16	421.180	9	4	1608	s	9	4	2008	66 44.84	70 10.24	516	350	Salihoglu	CMiPS		
nbp24702.021	CTD	73	16	421.180	9	4	1626	e	9	4	2026	66 44.84	70 10.24	516	350	Salihoglu	CMiPS		
nbp24702.022	CTD	74	16	421.180	9	4	1627	s	9	4	2027	66 44.8	70 10.29	519	500	Salihoglu			
nbp24702.023	ice dive		16	421.180	9	4	1645	e	9	4	2045	66 44.80	70 10.29			Torres			
nbp24702.024	whale obs		16		9	4	1707	e	9	4	2107	66 44.745	70 10.327			Viddi			
nbp24702.025	CTD	74	16	421.180	9	4	1710	e	9	4	2110	66 44.8	70 10.29	519	500	Salihoglu			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24702.026	ROV	20	16	421.180	9	4	1741	s	9	4	2041	66 44.570	70 10.435			Gallager			
nbp24702.027	ice coring		16	421.180	9	4	1745	s	9	4	2045	66 44.570	70 10.435			Stewart			
nbp24702.028	ice coring		16	421.180	9	4	1945	e	9	4	2245	66 44.448	70 10.335			Stewart			
nbp24702.029	ROV	20	16	421.180	9	4	2008	e	9	5	0008	66 44.448	70 10.335			Gallager			
nbp24702.030	MOC-1	12	16	421.180	9	4	2025	s	9	5	0025	66 44.5	70 9.9	518	480	Wiebe			
nbp24702.031	MOC-1	12	16	421.180	9	4	2230	e	9	5	0230	66 44.7	70 04.9			Wiebe			
nbp24702.032	Tucker	28	16	421.180	9	4	2249	s	9	5	0249	66 43.974	70 3.903	490	400	Torres			
nbp24702.033	Tucker	28	16	421.180	9	4	2330	e	9	5	0330	66 44.946	70 5.549	490	400	Torres			
nbp24702.034	BMP	35	16 to 15		9	4	2340	s	9	5	0340	66 44.867	70 5.781	464	100	Wiebe			
nbp24802.001	BMP	35	16 to 15		9	5	630	e	9	5	1030	66 30.903	70 57.889	543	100	Wiebe			
nbp24802.002	BMP	36	15		9	5	642	s	9	5	1042	66.30.903	70 57.889	543	100	Wiebe			
nbp24802.003	CTD	75	15		9	5	706	s	9	5	1107	66 30.87	70 57.71	543	350	Beardsley			
nbp24802.004	CTD	75	15		9	5	724	e	9	5	1124	66 30.87	70 57.71	543	350	Beardsley			
nbp24802.005	CTD	76	15		9	5	728	s	9	5	1128	66 30.83	70 57.50	543	532	Beardsley			
nbp24802.006	CTD	76	15		9	5	813	e	9	5	1213	66 30.83	70 57.50	543	532	Beardsley			
nbp24802.007	bird obs	29	15 to 14		9	5	813	s	9	5	1213	66 30.79	70 57.28	543		Ribic			
nbp24802.008	Whales obs		15 to 14		9	5	816	s	9	5	1216	66 30.79	70 57.261	543		Viddi			
nbp24802.009	BMP	36	15 to 14		9	5	1113	e	9	5	1513	66 24.232	71 21.537			Wiebe			
nbp24802.010	ice dive		14	420.25	9	5	1244	s	9	5	1644	66 24.231	71 22.395			Torres			
nbp24802.011	CTD	77	14	420.25	9	5	1302	s	9	5	1702	66 24.40	71 22.06	791	375	Hofmann			
nbp24802.012	CTD	77	14	420.25	9	5	1320	e	9	5	1720	66 24.40	71 22.06	791	375	Hofmann			
nbp24802.013	CTD	78	14	420.25	9	5	1322	s	9	5	1722	66 23.98	71 21.93	814	375	Hofmann			
nbp24802.014	CTD	78	14	420.25	9	5	1341	e	9	5	1741	66 23.98	71 21.93	814	375	Hofmann			
nbp24802.015	CTD	79	14	420.25	9	5	1343	s	9	5	1743	66 23.85	71 21.82	835	375	Hofmann			
nbp24802.016	CTD	79	14	420.25	9	5	1402	e	9	5	1802	66 23.85	71 21.82	835	375	Hofmann			
nbp24802.017	CTD	80	14	420.25	9	5	1404	s	9	5	1804	66 23.75	71 21.68	847	375	Hofmann			
nbp24802.018	CTD	80	14	420.25	9	5	1425	e	9	5	1825	66 23.75	71 21.68	847	375	Hofmann			
nbp24802.019	ice dive		14	420.25	9	5	1435	e	9	5	1835	66 23.689	71 21.472			Torres			
nbp24802.020	CTD	81	14	420.25	9	5	1501	s	9	5	1901	66 23.53	71 21.37	871	866	Hofmann			
nbp24802.021	CTD	81	14	420.25	9	5	1602	e	9	5	2002	66 23.53	71 21.37	871	866	Hofmann			
nbp24802.022	BMP	37	14 to 23		9	5	1613	s	9	5	2013	66 23.401	71 21.850	916	100	Wiebe			
nbp24802.023	Whales obs		14 to 23		9	5	1735	e	9	5	2135	66 26.404	71 33.984			Viddi			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24802.024	bird obs	29	14 to 23		9	5	1812	e	9	5	2212	66 27.43	71 40.43				Ribic		
nbp24802.025	BMP	37	14 to 23		9	5	2132	e	9	6	132	66 35.584	72 9.376	3300	100		Wiebe		
nbp24802.026	Ring/Reeve	7	23	381.26	9	5	2155	s	9	6	155	66 35.806	72 8.905	3282	10		Daly		
nbp24802.027	Ring/Reeve	7	23	381.26	9	5	2255	e	9	6	255	66 35.982	72 6.536	3282	10		Daly		
nbp24802.028	ROV	21	23	381.26	9	5	2352	s	9	6	352	66 35.775	72 6.563				Gallager		
nbp24902.001	ROV	21	23	381.26	9	6	110	e	9	6	510	66 35.325	72 6.402				Gallager		
nbp24902.002	CTD	82	23		9	6	330	s	9	6	730	66 41.13	71 59.77	1688	350		Beardsley		
nbp24902.003	CTD	82	23		9	6	340	e	9	6	740	66 41.13	71 59.77	1688	350		Beardsley		
nbp24902.004	CTD	83	23		9	6	430	s	9	6	830	66 40.79	71 59.19	1767	1757		Beardsley		
nbp24902.005	CTD	83	23		9	6	542	e	9	6	942	66 40.79	71 59.19	1767	1757		Beardsley		
nbp24902.006	MOC1	13	23		9	6	555	s	9	6	955	66 40.31	71 57.73	1667	800		Gallager		
nbp24902.008	whale obs		23 to 22		9	6	751	s	9	6	1151	66 42.030	71 52.413				Viddi		
nbp24902.009	bird obs	30	23 to 22		9	6	822	s	9	6	1222	66 42.566	71 51.115				Ribic		
nbp24902.007	MOC1	13	23		9	6	831	e	9	6	1231	66 42.51	71 51.2				Gallager		
nbp24902.010	BMP	38	23 to 22		9	6	855	s	9	6	1255	66 43.010	71 49.442	474			Wiebe		
nbp24902.011	BMP	38	22	381.220	9	6	1139	e	9	6	1539	66 48.93	71 26.53	478			Wiebe		
nbp24902.012	CTD	84	22	381.220	9	6	1211	s	9	6	1611	66 49.35	71 25.78	478	350		Salihoglu		
nbp24902.013	CTD	84	22	381.220	9	6	1235	e	9	6	1635	66 49.35	71 25.78	478	350		Salihoglu		
nbp24902.014	CTD	85	22	381.220	9	6	1236	s	9	6	1636	66 49.26	71 25.72	478	400		Salihoglu		
nbp24902.015	CTD	85	22	381.220	9	6	1318	e	9	6	1718	66 49.26	71 25.72	478	400		Salihoglu		
nbp24902.016	MOC10	10	22	381.220	9	6	1348	s	9	6	1748	66 49.243	71 25.277	480	400		Torres		
nbp24902.017	MOC10	10	22	381.220	9	6	1541	e	9	6	1941	66 53.084	71 25.547	480	400		Torres		
nbp24902.018	BMP	39	22 to 21		9	6	1747	s	9	6	2147	66 54.848	71 8.568	484	100		Wiebe		
nbp24902.019	whale obs		22 to 21		9	6	1800	e	9	6	2200	66 55.191	71 06.505				Viddi		
nbp24902.020	bird obs	30	22 to 21		9	6	1813	e	9	6	2213	66 55.66	71 04.244				Ribic		
nbp24902.021	BMP	39	22 to 21		9	6	2055	e	9	7	55	67 1.871	70 44.787	470	100		Wiebe		
nbp24902.022	Ring/Reeve	8	21	381.180	9	6	2142	s	9	7	142	67 02.649	70 42.842	210	15/20		Daly		
nbp24902.023	Ring/Reeve	8	21	381.180	9	6	2245	s	9	7	245	67 02.649	70 42.842	210			Daly		
nbp24902.024	ice coring		21	381.180	9	6	2335	s	9	7	335	67 2.616	70 42.804				Stewart		

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp24902.025	ROV	22	21	381.180	9	6	2345	s	9	7	345	67 2.614	70 42.772			Gallager			
nbp25002.001	ROV	22	21	381.180	9	7	103	e	9	7	503	67 2.614	70 42.772			Gallager			
nbp25002.002	Ice coring		21	381.180	9	7	140	e	9	7	540	67 2.614	70 42.772			Stewart			
nbp25002.003	CTD	86	21	381.180	9	7	240	s	9	7	640	67 02.39	70 42.16	501	350	Beardsley	CMiPS		
nbp25002.004	CTD	86	21	381.180	9	7	249	e	9	7	649	67 02.39	70 42.16	501	350	Beardsley			
nbp25002.005	CTD	87	21	381.180	9	7	310	s	9	7	710	67 02.29	70 42.03	504	485	Beardsley			
nbp25002.006	CTD	87	21	381.180	9	7	343	e	9	7	743	67 02.29	70 42.03	504	485	Beardsley			
nbp25002.007	MOC1	14	21 to 20		9	7	415	s	9	7	815	67 03.191	70 43.332	499	450	Wiebe			
nbp25002.008	MOC1	14	21 to 20		9	7	625	e	9	7	1025	67 05.51	70 43.2			Wiebe			
nbp25002.009	BMP	40	21 to 20		9	7	700	s	9	7	1100	67 05.811	70 41.905			Wiebe			
nbp25002.010	bird obs	31	21 to 20		9	7	700	s	9	7	1100	67 05.815	70 41.881			Ribic			
nbp25002.011	whale Obs		21 to 20		9	7	745	s	9	7	1145	67 07.177	70 35.045			Viddi			
nbp25002.012	CTD	88	20a		9	7	1021	s	9	7	1421	67 12.36	70 16.89	662	350	Beardsley	CMiPS		
nbp25002.013	CTD	88	20a		9	7	1032	e	9	7	1432	67 12.36	70 16.89	662	350	Beardsley			
nbp25002.014	CTD	89	20a		9	7	1045	s	9	7	1445	67 12.39	70 16.73	663	350	Beardsley	CMiPS		
nbp25002.015	CTD	89	20a		9	7	1055	e	9	7	1455	67 12.39	70 16.73	663	350	Beardsley			
nbp25002.016	CTD	90	20a		9	7	1106	s	9	7	1506	67 12.40	70 16.62	664	150	Beardsley	CMiPS		
nbp25002.017	CTD	90	20A		9	7	1108	e	9	7	1508	67 12.40	70 16.62	664	150	Beardsley			
nbp25002.018	CTD	91	20A		9	7	1118	s	9	7	1518	67 12.41	70 16.40	663	641	Beardsley			
nbp25002.019	CTD	91	20a		9	7	1214	e	9	7	1614	67 12.41	70 16.40	663	641	Beardsley			
nbp25002.020	whale Obs		20 to 19		9	7	1608	e	9	7	2008	67 28.362	69 30.97			Viddi			
nbp25002.021	BMP	40	19	373.110	9	7	1752	e	9	7	2152	67 28.393	69 30.947	380	125	Wiebe			
nbp25002.022	bird obs	31	20 to 19		9	7	1755	e	9	7	2155	67 28.28	69 30.93			Ribic			
nbp25002.023	CTD	92	19	373.110	9	7	1820	s	9	7	2220	67 28.39	69 31.03	383	315	Salihoglu			
nbp25002.024	CTD	92	19	373.110	9	7	1839	e	9	7	2239	67 28.39	69 31.03	383	315	Salihoglu			
nbp25002.025	CTD	93	19	373.110	9	7	1841	s	9	7	2241	67 28.38	69 30.93	390	383	Salihoglu			
nbp25002.026	CTD	93	19	373.110	9	7	1922	e	9	7	2322	67 28.38	69 30.93	390	383	Salihoglu			
nbp25002.027	Ring/Reeve	9	19	373.110	9	7	1942	s	9	7	2342	67 28.170	69 31.005	381	15/20	Daly			
nbp25002.028	Ring/Reeve	9	19	373.110	9	7	2043	e	9	8	43	67 27.257	69 31.348			Daly			
nbp25002.029	MOC 10	11	19	373.110	9	7	2137	s	9	8	137	67 28.01	69 32.084	492	500	Torres			
nbp25102.001	MOC 10	11	19	373.110	9	8	0000	e	9	8	400	67 22.656	69 32.960	481		Torres			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25102.002	MOC-1	15	19	373.110	9	8	0022	s	9	8	422	67 22.54	69 32.98	489		Wiebe			
nbp25102.003	MOC-1	15	19	373.110	9	8	0234	e	9	8	634	67 26.10	69 33.10	560	525	Wiebe			
nbp25102.004	BMP	41	19 to 17		9	8	0345	s	9	8	745	67 26.702	69 32.769	580		Wiebe			
nbp25102.005	bird obs	32	19 to 18		9	8	0634	s	9	8	1034	67 14.19	69 27.26			Ribic			
nbp25102.006	Whale obs		19 to 18		9	8	0714	s	9	8	1114	67 11.481	69 23.504			Viddi			
nbp25102.007	CTD	94	18	421.13	9	8	1050	s	9	8	1450	67 2.82	69 8.64	391	350	Beardsley	CMiPS		
nbp25102.008	CTD	94	18	421.13	9	8	1107	e	9	8	1507	67 2.82	69 8.64	391	350	Beardsley			
nbp25102.009	CTD	95	18	421.13	9	8	1110	s	9	8	1510	67 2.89	69 8.61	415	415	Beardsley			
nbp25102.010	CTD	95	18	421.13	9	8	1151	e	9	8	1551	67 2.89	69 8.61	427		Beardsley	reterminate CTD cable		
nbp25102.011	BMP	41	17		9	8	1431	e	9	8	1831	66 56.652	69 30.351	516	100	Wiebe			
nbp25102.012	bird obs	32	18 to 17		9	8	1450	e	9	8	1850	66 56.70	69 30.40			Ribic			
nbp25102.013	Ice dive	8	17	421.15	9	8	1548	s	9	8	1958	66 56.913	69 30.439	520		Torres			
nbp25102.014	Whale obs		17	421.15	9	8	1804	e	9	8	2204	66 57.278	69 30.449			Viddi			
nbp25102.015	ice dive	8	17	421.15	9	8	1800	e	9	8	2200	66 56.913	69 30.434			Torres			
nbp25102.016	ice coring		17	421.15	9	8	1845	s	9	8	2245	66 57.711	69 29.695			Stewart			
nbp25102.017	ice coring		17	421.15	9	8	2030	e	9	8	30	66 58.396	69 29.811			Stewart			
nbp25102.018	ROV	23	17	421.15	9	8	2036	s	9	9	36	66 58.335	69 29.787	527	30	Gallager			
nbp25102.019	ROV	23	17	421.15	9	8	2130	e	9	9	130	66 58.335	69 29.787			Gallager			
nbp25102.020	Reeve/Ring	10	17	421.15	9	8	2159	s	9	9	159	66 58.969	69 29.325	527	15/20	Daly			
nbp25102.021	Reeve/Ring	10	17	421.15	9	8	2259	e	9	9	259	66 59.799	69 30.117	527	15/20	Daly			
nbp25102.022	CTD	96	17	421.15	9	8	2323	s	9	9	323	66 59.73	69 30.06	526	350	Hofmann	CMiPS		
nbp25102.023	CTD	96	17	421.15	9	8	2341	e	9	9	341	66 59.73	69 30.06	526	350	Hofmann			
nbp25102.024	CTD	97	17	421.15	9	8	2344	s	9	9	344	66 59.97	69 30.18	512	496	Hofmann			
nbp25202.001	CTD	97	17	421.15	9	9	32	e	9	9	432	66 59.97	69 30.18	512	496	Hofmann			
nbp25202.002	BMP	42	17 to 9		9	9	105	s	9	9	505	67 00.526	69 30.487	506	100	Wiebe			
nbp25202.003	bird obs	33	17 to 9		9	9	643	s	9	9	1043	66 44.16	69 03.57			Ribic			
nbp25202.004	BMP		17 to 9		9	9	813	e	9	9	1213	66 40.569	68 53.792	340	100	Wiebe			
nbp25202.005	whale obs		17 to 9		9	9	823	s	9	9	1223	66 40.547	68 53.742			Viddi			
nbp25202.006	CTD	98	9	461.140	9	9	848	s	9	9	1248	66 40.73	68 54.18	332	300	Beardsley	CMiPS		

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25202.007	CTD	98	9	461.140	9	9	904	e	9	9	1304	66 40.73	68 54.18	332	300	Beardsley	CMiPS		
nbp25202.008	CTD	99	9	461.140	9	9	906	s	9	9	1306	66 40.85	68 54.52	328	311	Beardsley	FRRF		
nbp25202.009	CTD	99	9	461.140	9	9	943	e	9	9	1343	66 40.85	68 54.52	328	311	Beardsley			
nbp25202.010	MOC-1	16	9	461.140	9	9	1009	s	9	9	1409	66 441.244	68 54.300	323	300	Wiebe			
nbp25202.011	MOC-1	16	9	461.140	9	9	1203	e	9	9	1603	66 43.521	68 51.472			Wiebe			
nbp25202.012	CTD	100	8	460.12	9	9	1428	s	9	9	1828	66 48.74	68 26.17	70	67	Hofmann	CMiPS		
nbp25202.013	CTD	100	8	460.12	9	9	1435	e	9	9	1835	66 48.74	68 26.17	70	67	Hofmann	CMiPS		
nbp25202.014	CTD	101	8	460.12	9	9	1437	s	9	9	1837	66 48.74	68 26.25	73	65	Hofmann			
nbp25202.015	CTD	101	8	460.12	9	9	1437	e	9	9	1837	66 48.74	68 26.25	73	65	Hofmann			
nbp25202.016	BMP	43	8to5		9	9	1514	s	9	9	1914	66 48.711	68 27.335	148		Wiebe			
nbp25202.017	whale obs		8to5		9	9	1717	e	9	9	2117	66 41.426	68 34.367			Viddi			
nbp25202.018	bird obs		8 to 5		9	9	1733	e	9	9	2133	66 40.189	68 33.903			Ribic			
nbp25202.019	BMP	43	5	501.140	9	9	2121	e	9	10	121	66 28.853	68 22.783		125	Wiebe			
nbp25202.020	Ring/ Reeve	11	5	501.140	9	9	2145	s	9	10	145	66 24.030	68 22.848	667	10&20	Daly			
nbp25202.021	Ring/ Reeve	11	5	501.140	9	9	2250	e	9	10	250	66 24.185	68 22.602	833		Daly			
nbp25202.022	ROV	24	5	501.140	9	9	2330	s	9	10	330	66 24.278	68 22.709			Gallager			
nbp25202.023	ice ops		5	501.140	9	9	2337	s	9	10	337	66 24.278	68 22.709			Stewart			
nbp25302.001	ice ops		5	501.140	9	10	105	e	9	10	505	66 25.224	68 24.231			Stewart			
nbp25302.002	ROV	24	5	501.140	9	10	139	e	9	10	539	66 25.488	68 24.578			Gallager			
nbp25302.003	CTD	102	5	501.140	9	10	211	s	9	10	611	66 25.50	68 24.54	693	360	Beardsley	CMiPS		
nbp25302.004	CTD	102	5	501.140	9	10	220	e	9	10	620	66 25.50	68 24.54	693	350	Beardsley			
nbp25302.005	CTD	103	5	501.140	9	10	248	s	9	10	648	66 25.82	68 24.69	675	650	Beardsley			
nbp25302.006	CTD	103	5	501.140	9	10	328	e	9	10	728	66 25.82	68 24.69	675	650	Beardsley			
nbp25302.007	MOC-1	17	5	501.140	9	10	404	s	9	10	804	66 25.9	68 30.6			Wiebe			
nbp25302.008	MOC-1	17	5	501.140	9	10	547	e	9	10	947	66 23.31	68 27.1	670	500	Wiebe			
nbp25302.009	Whale obs				9	10	800	s	9	10	1200	66 12.191	68 33.085			Viddi			
nbp25302.010	Whale obs				9	10	1646	e	9	10	2046	65 49.591	67 57.579			Viddi			
nbp25302.011	Cross. Cere.				9	10	2045	s	9	10	45					Scolardi	Crossing party w/live entertainment + fishy fun by all		
nbp25402.001	BMP	44	RI1		9	11	516	s	9	11	916	65 11.056	65 34.721	630	12	Wiebe			
nbp25402.002	CTD	104	RI1		9	11	533	s	9	11	933	65 11.04	65 34.43	622	400	Beardsley			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25402.003	CTD	104	RI1		9	11	553	e	9	11	953	65 11.04	65 34.43	622	400	Beardsley			
nbp25402.004	CTD	105	RI1		9	11	556	s	9	11	956	65 11.03	65 34.20	588	400	Beardsley			
nbp25402.005	CTD	105	RI1		9	11	616	e	9	11	1016	65 11.03	65 34.20	588	400	Beardsley			
nbp25402.006	BMP	44	RI1		9	11	630	e	9	11	1030	65 11.154	65 34.243	630	12	Wiebe			
nbp25402.007	MOC-1	18	RI1		9	11	645	s	9	11	1045	65 11.02	65 33.93	579		Wiebe			
nbp25402.008	Whale		RI1		9	11	743	s	9	11	1143	65 11.645	65 37.331			Viddi			
nbp25402.009	MOC-1	18	RI1		9	11	810	e	9	11	1210	65 11.994	65 39.209			Wiebe			
nbp25402.010	ROV	25	RI1		9	11	909	s	9	11	1309	65 10.382	65 37.560			Gallager			
nbp25402.011	ice coring		RI1		9	11	920	s	9	11	1320	65 10.138	65 36.606			Stewart			
nbp25402.012	Whale		RI1		9	11	1006	e	9	11	1406	65 10.386	65 37.582			Viddi			
nbp25402.013	ice coring		RI1		9	11	1030	e	9	11	1430	65 10.138	65 36.606			Stewart			
nbp25402.014	ROV	25	RI1		9	11	1055	e	9	11	1455	65 10.056	65 36.380			Gallager			
nbp25402.015	BMP	45	RI2		9	11	1131	s	9	11	1531	65 10.092	65 35.831	722		Wiebe			
nbp25402.016	CTD	106	RI2		9	11	1146	s	9	11	1546	65 9.92	65 35.48	714	400	Beardsley			
nbp25402.017	CTD	106	RI2		9	11	1207	e	9	11	1607	65 9.92	65 35.48	714	400	Beardsley			
nbp25402.018	CTD	107	RI2		9	11	1210	s	9	11	1610	65 9.87	65 35.39	735	730	Beardsley			
nbp25402.019	CTD	107	RI2		9	11	1305	e	9	11	1705	65 9.87	65 35.39	735	730	Beardsley			
nbp25402.020	BMP	45	RI2		9	11	1317	e	9	11	1717	65 9.871	65 34.659	721		Wiebe			
nbp25402.021	ice dive		RI2		9	11	1403	s	9	11	1803	65 9.660	65 34.312	634		Torres			
nbp25402.022	BMP	46	RI2		9	11	1415	s	9	11	1815	65 9.622	65 34.246	710		Wiebe			
nbp25402.023	BMP	46	RI2		9	11	1611	e	9	11	2011	65 9.280	65 33.407	580	2	Wiebe			
nbp25402.024	ice dive		RI2		9	11	1645	e	9	11	2045	65 9.107	65 32.867			Torres			
nbp25402.023	BMP	47	RI3		9	11	1704	s	9	11	2104	65 9.107	65 32.867	576	10	Wiebe			
nbp25402.026	CTD	108	RI3		9	11	1700	s	9	11	2100	65 9.06	65 32.75	595	350	Salihoglu	CMiPS		
nbp25402.027	CTD	108	RI3		9	11	1733	e	9	11	2133	65 9.06	65 32.75	595	350	Salihoglu	CMiPS		
nbp25402.028	CTD	109	RI3		9	11	1733	s	9	11	2133	65 9.0	65 32.56	557	350	Salihoglu	CMiPS		
nbp25402.029	CTD	109	RI3		9	11	1753	e	9	11	2153	65 9.0	65 32.56	557	350	Salihoglu	CMiPS		
nbp25402.030	CTD	110	RI3		9	11	1753	s	9	11	2153	65 8.94	65 32.39	549	350	Salihoglu	CMiPS		
nbp25402.031	CTD	110	RI3		9	11	1811	e	9	11	2211	65 8.94	65 32.39	549	350	Salihoglu	CMiPS		
nbp25402.032	CTD	111	RI3		9	11	1813	s	9	11	2213	65 8.87	65 32.20	536	350	Salihoglu	CMiPS		
nbp25402.033	CTD	111	RI3		9	11	1900	e	9	11	2230	65 8.87	65 32.20	536	350	Salihoglu	CMiPS		
nbp25402.034	BMP	47	RI3		9	11	1910	e	9	11	2310	65 8.799	65 31.721	531		Wiebe			
nbp25402.035	MOC-1	19	RI3		9	11	1915	s	9	11	2315	65 8.799	65 31.721	531		Wiebe			

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					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25402.036	MOC-1	19	RI3		9	11	2039	e	9	11	39	65 8.74	65 31.88	531		Wiebe			
nbp25402.037	Ring/ Reeve	12	RI3		9	11	2135	s	9	11	135	65 08.121	65 30.795	561	10&20	Daly			
nbp25402.038	Ring/ Reeve	12	RI3		9	11	2220	e	9	12	220	65 7.907	65 30.600	561	10&20	Daly			
nbp25402.039	BMP	48	RI4		9	11	2235	s	9	12	235	65 7.942	65 30.597	537	10	Wiebe			
nbp25402.040	CTD	112	RI4		9	11	2240	s	9	12	240	65 7.91	65 30.60	533	350	Salihoglu	CMiPS		
nbp25402.041	CTD	112	RI4		9	11	2303	e	9	12	303	65 7.91	65 30.60	533	350	Salihoglu	CMiPS		
nbp25402.042	CTD	113	RI4		9	11	2304	s	9	12	304	65 7.83	65 30.56	540	350	Salihoglu	CMiPS		
nbp25402.043	CTD	113	RI4		9	11	2323	e	9	12	323	65 7.83	65 30.56	540	350	Salihoglu	CMiPS		
nbp25402.044	CTD	114	RI4		9	11	2324	s	9	12	324	65 7.76	65 30.57	553	500	Salihoglu			
nbp25502.001	CTD	114	RI4		9	12	13	e	9	12	413	65 7.76	65 30.57	553	500	Salihoglu			
nbp25502.002	BMP	48	RI4		9	12	14	e	9	12	414	65 7.614	65 30.566	576		Wiebe			
nbp25502.003	ROV	26	RI4		9	12	46	s	9	12	446	65 7.709	65 30.728			Gallager			
nbp25502.004	ROV	26	RI4		9	12	200	e	9	12	600	65 07.443	65 30.211	540		Gallager			
nbp25502.005	BMP	49	RI5		9	12	230	s	9	12	630	65 7.381	65 30.186	542	13	Wiebe			
nbp25502.006	CTD	115	RI5		9	12	244	s	9	12	644	65 7.41	65 30.13	537		Beardsley			
nbp25502.007	CTD	115	RI5		9	12	303	e	9	12	703	65 7.41	65 30.13			Beardsley			
nbp25502.008	CTD	116	RI5		9	12	306	s	9	12	706	65 7.41	65 30.07	536		Beardsley			
nbp25502.009	CTD	116	RI5		9	12	405	e	9	12	805	65 7.41	65 30.07			Beardsley			
nbp25502.010	BMP	49	RI5		9	12	406	e	9	12	806	65 07.411	65 34.021	549		Wiebe			
nbp25502.011	Whale obs		to Palmer		9	12	718	s	9	12	1118	64 53.463	64 56.597			Viddi			
nbp25502.012	Whale obs		Palmer		9	12	1108	e	9	12	1509	64 46.264	64 03.201			Viddi			
nbp25502.013	BMP	50	Palmer		9	12	1346	s	9	12	1746	64 46.243	64 3.283	30	2	Wiebe	Calibration		
nbp25502.014	BMP	50	Palmer		9	12	1450	e	9	12	1850	64 46.243	64 3.283	30	2	Wiebe	Calibration		
nbp25502.015	HTI		Palmer		9	12	1550		9	12	1950	64 46.243	64 3.283	49		Daly	Calibration		
nbp25502.016	HTI		Palmer		9	12	1645		9	12	2045	64 46.243	64 3.283			Daly			
nbp25601.001	HTI		Palmer		9	13	0900	s	9	13	1300	64 46.284	64 3.286	48		Daly	Calibration		
nbp25601.002	HTI		Palmer		9	13	1120	e	9	13	1520	64 46.284	64 3.286			Daly			
nbp25601.003	Whale obs				9	13	1149	s	9	13	1549	64 46.863	64 04.451			Viddi			
nbp25601.004	CTD	117	GS1		9	13	1558	s	9	13	1958	64 43.01	63 1.81	369	350	Salihoglu	CMiPS		
nbp25601.005	CTD	117	GS1		9	13	1617	e	9	13	2017	64 43.01	63 1.81	369	350	Salihoglu	CMiPS		
nbp25601.006	CTD	118	GS1		9	13	1618	s	9	13	2018	64 43.00	63 1.64	372	350	Salihoglu	CMiPS		

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25601.007	CTD	118	GS1		9	13	1618	s	9	13	2018	64 43.00	63 1.64	372	350	Salihoglu	CMiPS		
nbp25601.008	Whale obs				9	13	1716	e	9	13	2116	64 38.565	63 53.953			Viddi	CMiPS		
nbp25601.009	CTD	119	GS2		9	13	1813	s	9	13	2213	64 34.39	62 39.65	757	350	Viddi	CMiPS		
nbp25601.010	CTD	119	GS2		9	13	1831	e	9	13	2231	64 34.39	62 39.65	757	350	Viddi	CMiPS		
nbp25601.011	CTD	120	GS2		9	13	1835	s	9	13	2235	64 34.70	62 39.65	757	757	Viddi	CMiPS		
nbp25601.012	CTD	120	GS2		9	13	1915	e	9	13	2315	64 34.70	62 39.65	757	757	Viddi	CMiPS		
nbp25601.013	CTD	121	GS3		9	13	2041	s	9	14	0:41	64 34.72	62 39.37	656	350	Viddi	CMiPS		
nbp25601.014	CTD	121	GS3		9	13	2104	e	9	14	1:04	64 34.72	62 39.37	656	350	Viddi	CMiPS		
nbp25601.015	CTD	122	GS3		9	13	2105	s	9	14	1:24	64 28.07	62 14.12	656	350	Viddi	CMiPS		
nbp25601.016	CTD	122	GS3		9	13	2124	e	9	14	1:24	64 28.07	62 14.12	656	350	Viddi	CMiPS		
nbp25601.017	CTD	123	GS3		9	13	2125	s	9	14	1:25	64 28.1	62 14.02	662	650	Viddi	CMiPS		
nbp25601.018	CTD	123	GS3		9	13	2158	e	9	14	1:58	64 28.1	62 14.02	662	650	Viddi	CMiPS		
nbp25602.019	CTD	124	GS4		9	13	2337	s	9	14	337	64 18.62	61 56.50	1035	350	Viddi	CMiPS		
nbp25602.020	CTD	124	GS4		9	13	2354	e	9	14	354	64 18.62	61 56.50	1035	350	Viddi	CMiPS		
nbp25602.021	CTD	125	GS4		9	13	2356	s	9	14	356	64 18.60	61 56.48	1042	350	Viddi	CMiPS		
nbp25702.001	CTD	125	GS4		9	14	32	e	9	14	432	64 18.60	61 56.48	1042	350	Viddi	CMiPS		
nbp25702.002	CTD	126	GS4		9	14	35	s	9	14	435	64 18.61	61 56.58	1060	450	Viddi	CMiPS		
nbp25702.003	CTD	126	GS4		9	14	44	e	9	14	444	64 18.61	61 56.58	1060	450	Viddi	CMiPS		
nbp25702.004	CTD	127	GS4		9	14	52	s	9	14	452	64 18.61	61 56.56	1055	1048	Beardsley			
nbp25702.005	CTD	127	GS4		9	14	113	e	9	14	513	64 18.61	61 56.56	1055	1048	Beardsley			
nbp25702.006	CTD	128	GS5		9	14	404	s	9	14	804	64 10.02	61 52.03	718	500	Beardsley			
nbp25702.007	CTD	128	GS5		9	14	423	e	9	14	823	64 10.02	61 52.03	718	500	Beardsley			
nbp25702.008	CTD	129	GS5		9	14	423	s	9	14	823	64 10.02	61 52.03	718	695	Beardsley			
nbp25702.009	CTD	129	GS5		9	14	440	e	9	14	840	64 10.02	61 52.03	718	695	Beardsley			
nbp25702.010	Whale obs				9	14	750	s	9	14	1150	63 59.847	61 44.760			Viddi			
nbp25702.011	CTD	130	GS6		9	14	714	s	9	14	1114	64 0.38	61 45.24	1204	1160	Beardsley			
nbp25702.012	CTD	130	GS6		9	14	742	e	9	14	1142	64 0.38	61 45.24	1204	1160	Beardsley			
nbp25702.013	XCTD	3	GS7		9	14	851	s/e	9	14	1251	63 52.761	61 33.355	1080		Beardsley			
nbp25702.014	XBT-7	112	GS8		9	14	1013	s/e	9	14	1413	63 44.343	61 20.099	848		Beardsley			
nbp25702.015	XCTD	4	GS8		9	14	1028	s/e	9	14	1428	63 43.652	61 20.714	848		Beardsley			
nbp25702.016	XBT-7	113	BS1		9	14	1117	s/e	9	14	1517	63 35.303	61 26.226	887	760	Beardsley			
nbp25702.017	XBT-7	114	BS2		9	14	1217	s/e	9	14	1617	63 25.868	61 32.783	785	760	Hofmann			
nbp25702.018	XBT-7	115	BS3		9	14	1321	s/e	9	14	1721	63 16.361	61 39.245	758	760	Hofmann			

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25702.019	XBT-7	116	BS4		9	14	1433	s/e	9	14	1833	63 6.717	61 46.405	495	435	Salihoglu			
nbp25702.020	XBT-7	117	BS5		9	14	1550	s/e	9	14	1950	62 57.363	61 56.458	868	760	Hofmann			
nbp25702.021	XBT-7	118	BS6		9	14	1703	s/e	9	14	2103	62 47.38	62 4.98	628	456	Salihoglu			
nbp25702.022	Whale obs				9	14	1736	e	9	14	2136	62 43.61	62 8.861			Viddi			
nbp25702.023	XCTD	5	DP1		9	14	1820	s/e	9	14	2220	62 43.61	62 13.14	496	438	Salihoglu			
nbp25702.024	XBT-7	119	DP2		9	14	1954	s/e	9	14	2354	62 29.85	62 22.94	340	280	Salihoglu			
nbp25702.025	XCTD	6	DP3		9	14	2115	s/e	9	15	0115	62 20.72	62 29.25	1972	1800	Salihoglu	lost data		
nbp25702.026	XBT-7	120	DP3		9	14	2134	s/e	9	15	0134	62 18.58	62 30.36	2200	200	Salihoglu	repeated		
nbp25702.027	XBT-7	121	DP3		9	14	2137	s/e	9	15	0137	62 18.58	62 30.36	2246	760	Salihoglu	good		
nbp25702.028	XCTD	7	DP4		9	14	2241	s/e	9	15	0241	62 10.48	62 33.56	1293	300	Salihoglu	repeated		
nbp25702.029	XCTD	8	DP4		9	14	2248	s/e	9	15	0248	62 10.202	62 33.66	1293	180	Salihoglu	repeated		
nbp25702.030	XCTD	9	DP4		9	14	2251	s/e	9	15	0251	62 10.00	62 33.74	1828	873	Salihoglu			
nbp25702.031	XCTD	10	DP5		9	14	2352	s/e	9	15	0352	62 0.96	62 37.17	2000	1850	Salihoglu	GREAT FINALLY!!!		
nbp25802.001	XCTD	11	DP6		9	15	109	s/e	9	15	0509	61 50.98	62 40.64	2262	1256	Beardsley	better than the day shift's casts		
nbp25802.002	XCTD	12	DP7		9	15	238	s/e	9	15	0638	61 40.834	62 44.506	3432	1850	Beardsley	way way better than the day shift's casts		
nbp25802.003	XCTD	13	DP8		9	15	409	s/e	9	15	0809	61 30.796	62 48.336	3437	313	Beardsley	probably the best cast ever done		
nbp25802.004	XCTD	14	DP9		9	15	553	s/e	9	15	0953	61 21.006	62 52.290	3457	166	Beardsley	not too shabby		
nbp25802.005	XCTD	15	DP9		9	15	558	s/e	9	15	0958	61 20.729	62 52.370	3459	1275	Beardsley	repeated because we like doing them so much		
nbp25802.006	Whale obs				9	15	809	s	9	15	1209	61 03.708	62 58.771			Viddi			
nbp25802.007	XCTD	16	DP10		9	15	714	s/e	9	15	1114	61 11.473	62 53.960	3580	1710	Beardsley	this one was STUNNING		
nbp25802.008	XCTD	17	DP11		9	15	835	s/e	9	15	1235	61 0.713	62 59.587	3702	1756	Beardsley	as close to magnificent as an XCTD can come		
nbp25802.009	XCTD	18	DP12		9	15	946	s/e	9	15	1346	60 50.514	63 2.922	2670	1742	Beardsley	we could do this in our sleep		
nbp25802.010	XCTD	19	DP12		9	15	1038	s/e	9	15	1438	60 41.301	63 6.088	3735	1750	Beardsley	we did do this in our sleep		
nbp25802.011	XCTD	20	DP13		9	15	1140	s/e	9	15	1540	60 31.751	63 9.337	4030	1460	Beardsley	Now it's Your Turn!		
nbp25802.012	XCTD	21	DP14		9	15	1240	s/e	9	15	1640	60 21.89	63 13.01	3713	1700	Salihoglu	We still do it better:)		
nbp25802.013	XCTD	22	DP15		9	15	1343	s/e	9	15	1743	60 12.05	63 16.49	3793	1500	Salihoglu	good to 1500 m		
nbp25802.014	XCTD	23	DP16		9	15	1447	s/e	9	15	1847	60 2.069	63 19.944	3836	1434	Hofmann	awesome cast		

Eventno	Instr	cast#	Consec. Station#	Standard Station #	Local Time			Event s/e	Univ. Coord. Time (UCT)			Latitude (ES)		Longitude (EW)		Water Depth (m)	Cast Depth (m)	Scientific Invest.	Comments
					Mth	Day	hhmm		Mth	Day	hhmm	Deg.	Min.	Deg.	Min.				
nbp25802.015	XCTD	24	DP17		9	15	1549	s/e	9	15	1949	59 52.268	63 23.31	3800	1395	Hofmann			
nbp25802.016	XCTD	25	DP18		9	15	1654	s/e	9	15	2054	59 42.106	63 28.70	3700	1591	Salihoglu			
nbp25802.017	Whale obs				9	15	1710	e	9	15	2110	59 40.473	63 27.280			Viddi			
nbp25802.018	XCTD	26	DP19		9	15	1800	s/e	9	15	2200	59 32.12	63 30.23	4191	1599	Salihoglu			
nbp25802.019	XCTD	27	DP20		9	15	1903	s/e	9	15	2303	59 22.26	63 33.44	3737	1785	Salihoglu			
nbp25802.020	XCTD	28	DP21		9	15	2007	s/e	9	16	0007	59 12.49	63 36.71	3904	1407	Salihoglu			
nbp25802.021	XCTD	29	DP22		9	15	2110	s/e	9	16	0110	59 2.592	63 40.153	3908	1746	Hofmann			
nbp25802.022	XCTD	30	DP23		9	15	2213	s/e	9	16	0213	58 53.053	63 43.605	3537	1584	Hofmann			
nbp25802.023	XCTD	31	DP24		9	15	2317	s/e	9	16	0317	58 43.06	63 46.81	3935	1850	Salihoglu	WE ARE THE BEST!!!!		
nbp26102.001	DOCK				9	18	810	e	9	18	1210	53 10.22	70 54.39				It is all DONE!		

APPENDIX 2. Summary of the CTD cast details. Event number, cast number, station number, cast latitude and longitude, water depth (m), and cast depth (m) for the casts made during NBP02-04.

Event Number	Cast Number	Consec. Station no.	Latitude (° S) Deg. Min.	Longitude (° W) Deg. Min.	Water Depth (m)	Cast Depth (m)
nbp21702.003	1	TEST	66 31.37	67 16.15	679	500
nbp21702.009	2	CS1	66 30.31	67 22.64	230	220
nbp21802.001	3	CS2	66 31.89	67 28.73	575	560
nbp21802.003	4	CS3	66 34.12	67 32.67	217	207
nbp21902.001	5	CS7	66 41.68	67 07.50	232	218
nbp21902.003	6	CS6	66 37.86	67 15.62	580	556
nbp21902.005	7	CS5	66 35.02	67 27.83	876	849
nbp21902.007	8	CS4	66 31.73	67 38.15	237	223
nbp22102.009	9	Transit 1	67 11.26	70 32.99	505	200
nbp22102.011	10	Transit1	67 11.32	70 33.09	505	470
nbp22302.006	11	75	68 40.301	76 10.137	428	405
nbp22402.004	12	76	68 44.92	75 41.86	468	200
nbp22402.006	13	76	68 44.92	75 41.73	467	458
nbp22402.015	14	77	68 52.51	75 07.157	514	200
nbp22402.018	15	77	68 52.51	75 07.157	501	476
nbp22402.001	16	to 81	69 03.159	75 37.982	370	290
nbp22502.003	17	to 81	69 03.091	75 37.810	365	345
nbp22502.016	18	81	69 0.26	76 19.05	420	200
nbp22502.018	19	81	69 0.19	76 18.72	410	395
nbp22602.007	20	82	68 45.71	76 43.44	425	406
nbp22602.011	21	75	68 31.30	76 17.37	1180	1172
nbp22602.017	22	74	68 16.49	75 38.72	1710	100
nbp22602.019	23	74	68 16.43	75 38.31	1695	1685
nbp22702.001	24	73	68 27.92	75 01.00	429	200
nbp22702.003	25	73	68 27.83	75 00.86	431	409
nbp22702.012	26	72	68 35.289	74 04.203	683	100
nbp22702.014	27	72	68 35.26	74 4.24	681	1
nbp22702.016	28	72	68 35.25	74 4.26	682	667
nbp22902.006	29	65	68 5.15	74 42.38	410	300
nbp22902.008	30	65	68 5.10	74 41.93	404	390
nbp23102.005	31	42	67 32.77	71 35.28	454	433
nbp23202.006	32	43	67 13.24	72 28.20	413	200
nbp23202.009	33	43	67 13.01	72 28.08	413	392
nbp23302.006	34	44	66 59.25	73 23.97	3410	2000
nbp23302.016	35	45	67 12.68	74 29.37	2971	2000
nbp23402.012	36	46	67 27.516	73 48.004	450	100
nbp23402.014	37	46	67 27.438	73 48.014	443	425
nbp23502.010	38	64	67 31.06	75 5.83	2954	100
nbp23502.012	39	64	67 31.01	75 5.84	2933	2923
nbp23502.021	40	63	67 40.49	74 35.00	2552	2532
nbp23602.008	41	62	67 49.07	74 10.60	1091	1085
nbp23702.004	42	48	67 53.76	72 14.47	303	200
nbp23702.006	43	48	67 53.65	72 14.19	303	291
nbp23702.013	44	49	68 4.60	71 36.20	465	200
nbp23702.015	45	49	68 4.47	71 35.92	431	429

Event Number	Cast Number	Consec. Station no.	Latitude (° S) Deg. Min.	Longitude (° W) Deg. Min.	Water Depth (m)	Cast Depth (m)
nbp23802.005	46	40	68 2.00	70 23.76	863	200
nbp23802.007	47	40	68 2.00	70 23.96	863	832
nbp24002.001	48	41	67 49.96	71 14.44	375	350
nbp24002.003	49	41	67 49.81	71 14.34	380	361
nbp24102.005	50	26	67 07.43	72 00.25	424	405
nbp24102.007	51	26	67 07.54	72 00.21	425	405
nbp24102.016	52	26	67 7.30	72 8.32	426	300
nbp24102.018	53	26	67 7.46	72 8.52	426	300
nbp24102.020	54	26	67 7.62	72 8.79	426	300
nbp24102.022	55	26	67 7.79	72 8.91	429	300
nbp24402.005	56	4	66 9.49	69 6.10	347	250
nbp24402.007	57	4	66 9.40	69 6.32	347	317
nbp24402.016	58	3	66 57.34	69 49.02	345	200
nbp24402.018	59	3	66 57.19	69 49.09	345	342
nbp24402.025	60	2	65 47.23	70 17.79	820	804
nbp24502.003	61	1	65 37.34	70 36.81	3218	100
nbp24502.005	62	1	65 37.22	70 36.58	3225	3217
nbp24502.017	63	13	66 0.45	71 8.71	2944	2934
nbp24602.011	64	12	66 5.39	70 51.96	899	895
nbp24602.018	65	11	66 13.65	70 23.56	467	200
nbp24602.020	66	11	66 13.61	70 23.70	467	446
nbp24702.002	67	10	66 27.29	69 37.41	503	350
nbp24702.004	68	10	66 27.20	69 37.25	503	484
nbp24702.012	69	16	66 45.06	70 10.03	519	330
nbp24702.014	70	16	66 44.99	70 10.08	517	350
nbp24702.016	71	16	66 44.94	70 10.14	516	350
nbp24702.018	72	16	66 44.89	70 10.19	515	350
nbp24702.020	73	16	66 44.84	70 10.24	516	350
nbp24802.003	75	15	66 30.87	70 57.71	543	350
nbp24802.005	76	15	66 30.83	70 57.50	543	532
nbp24802.011	77	14	66 24.40	71 22.06	791	375
nbp24802.013	78	14	66 23.98	71 21.93	814	375
nbp24802.015	79	14	66 23.85	71 21.82	835	375
nbp24802.017	80	14	66 23.75	71 21.68	847	375
nbp24802.020	81	14	66 23.53	71 21.37	871	866
nbp24902.002	82	23	66 41.13	71 59.77	1688	350
nbp24902.004	83	23	66 40.79	71 59.19	1767	1757
nbp24902.012	84	22	66 49.35	71 25.78	478	350
nbp24902.014	85	22	66 49.26	71 25.72	478	400
nbp25002.003	86	21	67 02.39	70 42.16	501	350
nbp25002.005	87	21	67 02.29	70 42.03	504	485
nbp25002.012	88	20a	67 12.36	70 16.89	662	350
nbp25002.014	89	20a	67 12.39	70 16.73	663	350
nbp25002.016	90	20a	67 12.40	70 16.62	664	150
nbp25002.018	91	20a	67 12.41	70 16.40	663	641
nbp25002.023	92	19	67 28.39	69 31.03	383	315
nbp25002.025	93	19	67 28.38	69 30.93	390	383
nbp25102.007	94	18	67 2.82	69 8.64	391	350
nbp25102.009	95	18	67 2.89	69 8.61	415	415
nbp25102.022	96	17	66 59.73	69 30.06	526	350
nbp25102.024	97	17	66 59.97	69 30.18	512	496
nbp25202.006	98	9	66 40.73	68 54.18	332	300

Event Number	Cast Number	Consec. Station no.	Latitude (°S) Deg. Min.	Longitude (°W) Deg. Min.	Water Depth (m)	Cast Depth (m)
nbp25202.008	99	9	66 40.85	68 54.52	328	311
nbp25202.012	100	8	66 48.74	68 26.17	70	67
nbp25202.014	101	8	66 48.74	68 26.25	73	65
nbp25302.003	102	5	66 25.50	68 24.54	693	360
nbp25302.005	103	5	66 25.82	68 24.69	675	650
nbp25402.002	104	RI1	65 11.04	65 34.43	622	400
nbp25402.004	105	RI1	65 11.03	65 34.20	588	400
nbp25402.016	106	RI2	65 9.92	65 35.48	714	400
nbp25402.018	107	RI2	65 9.87	65 35.39	735	730
nbp25402.026	108	RI3	65 9.06	65 32.75	595	350
nbp25402.028	109	RI3	65 9.0	65 32.56	557	350
nbp25402.030	110	RI3	65 8.94	65 32.39	549	350
nbp25402.032	111	RI3	65 8.87	65 32.20	536	350
nbp25402.040	112	RI4	65 7.91	65 30.60	533	350
nbp25402.042	113	RI4	65 7.83	65 30.56	540	350
nbp25402.044	114	RI4	65 7.76	65 30.57	553	500
nbp25502.006	115	RI5	65 7.41	65 30.13	537	350
nbp25502.008	116	RI5	65 7.41	65 30.07	536	500
nbp25601.004	117	GS1	64 43.01	63 1.81	369	350
nbp25601.006	118	GS1	64 43.00	63 1.64	372	350
nbp25601.007	118	GS1	64 43.00	63 1.64	372	350
nbp25601.009	119	GS2	64 34.39	62 39.65	757	350
nbp25601.011	120	GS2	64 34.70	62 39.65	757	757
nbp25601.013	121	GS3	64 34.72	62 39.37	656	350
nbp25601.015	122	GS3	64 28.07	62 14.12	656	350
nbp25601.017	123	GS3	64 28.1	62 14.02	662	650
nbp25602.019	124	GS4	64 18.62	61 56.50	1035	350
nbp25602.021	125	GS4	64 18.60	61 56.48	1042	350
nbp25702.002	126	GS4	64 18.61	61 56.58	1060	450
nbp25702.004	127	GS4	64 18.61	61 56.56	1055	1048
nbp25702.006	128	GS5	64 10.02	61 52.03	718	500
nbp25702.008	129	GS5	64 10.02	61 52.03	718	695
nbp25702.011	130	GS6	64 0.38	61 45.24	1204	1160

APPENDIX 3. Summary of the water properties that were measured by the sensors mounted on the CTD at the time that Niskin bottles were closed. The station designator, cast number, time, latitude, and longitude are given in the header for each cast. The Niskin bottle number, depth (m), salinity (psu), temperature (Temp, °C), dissolved oxygen concentration (ml L⁻¹), photosynthetically active radiation (PAR) water clarity as transmission (Trans, %), and fluorescence (voltage) are given for each cast at the depth at which the Niskin bottle was closed. Values are preliminary and may change once final processing of the CTD data is finished.

Station:test Cast#:1 19:12:06 66 31.37 S 067 16.14 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	504.163	34.7012	1.3833	3.023207	6.1028e-02	97.7138	0.0653
2	504.165	34.7011	1.3831	3.023181	6.0755e-02	97.7089	0.0677
3	504.169	34.7012	1.3830	3.023179	6.0968e-02	97.7051	0.0601
4	504.175	34.7012	1.3832	3.023203	6.0961e-02	97.7198	0.0648
5	504.187	34.7012	1.3831	3.023195	6.0954e-02	97.7046	0.0691
6	504.193	34.7014	1.3831	3.023209	6.0989e-02	97.6789	0.0489
7	504.199	34.7014	1.3833	3.023222	6.0912e-02	97.7013	0.0313
8	504.195	34.7013	1.3832	3.023213	6.1003e-02	97.7040	0.0517
9	504.198	34.7014	1.3832	3.023218	6.0870e-02	97.6926	0.0292
10	504.208	34.7013	1.3831	3.023203	6.1073e-02	97.6512	0.0304
11	504.218	34.7014	1.3832	3.023221	6.0710e-02	97.7025	0.0394
12	504.217	34.7013	1.3834	3.023228	6.1079e-02	97.7116	0.0216
13	504.218	34.7013	1.3834	3.023226	6.0971e-02	97.6980	0.0260
14	504.219	34.7015	1.3833	3.023238	6.0957e-02	97.6849	0.0264
15	504.218	34.7015	1.3834	3.023247	6.0946e-02	97.7322	0.0287
16	504.218	34.7015	1.3833	3.023237	6.0891e-02	97.6822	0.0259
17	504.216	34.7015	1.3833	3.023235	6.0858e-02	97.7111	0.0325
18	504.219	34.7015	1.3834	3.023246	6.1015e-02	97.6900	0.0287
19	302.433	34.6604	1.2519	2.999536	6.0968e-02	97.6882	0.0231
20	100.898	34.2803	-0.0351	2.851134	7.8054e-02	97.2473	0.0544
21	50.582	34.0389	-1.5602	2.703632	2.5735e-01	97.0691	0.0302
22	1.470	33.9823	-1.7954	2.677931	6.7511e+00	96.8653	0.0366
Station:Crystal Sound 1 Cast#:2 02:59:59 66 30.31 S 067 22.63 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	219.493	34.6221	1.1759	2.986211	6.0843e-02	96.9928	0.0201
2	219.454	34.6223	1.1766	2.986281	6.0647e-02	97.0103	0.0230
3	219.449	34.6253	1.1892	2.987607	6.0741e-02	97.0146	0.0205
4	219.451	34.6267	1.1870	2.987523	6.0468e-02	97.0806	0.0223
5	219.455	34.6252	1.1903	2.987692	6.0693e-02	97.0813	0.0198
6	180.095	34.5008	0.8107	2.943573	6.0877e-02	96.9950	0.0198
7	139.943	34.4097	0.4862	2.906994	6.0838e-02	96.9591	0.0388
8	110.123	34.2780	-0.0750	2.848005	6.0856e-02	96.7285	0.0201
9	100.432	34.2470	-0.2712	2.828693	6.1018e-02	96.6723	0.0213
10	50.384	34.0241	-1.6214	2.697502	6.2513e-02	96.4413	0.0279
11	29.067	33.9778	-1.7472	2.682837	8.0158e-02	96.4435	0.0374
12	19.052	33.9480	-1.7922	2.676548	1.2343e-01	96.4991	0.0396
13	15.380	33.9496	-1.7764	2.677788	1.6272e-01	96.5083	0.0307
14	10.558	33.9364	-1.8003	2.674661	2.5756e-01	96.5530	0.0260
15	5.537	33.9228	-1.8072	2.672887	6.0302e-01	96.5677	0.0265
16	5.500	33.9239	-1.7983	2.673694	6.3014e-01	96.5481	0.0228
17	-0.076	33.9375	-1.7867	2.675370	3.6434e+00	96.5089	0.0235
18	0.718	33.9411	-1.7883	2.675525	1.7861e+00	96.5606	0.0322
19	0.781	33.9405	-1.7907	2.675294	1.9796e+00	96.5350	0.0319
Station:Crystal Sound 2 Cast#:3 Aug 06 2002 05:04:19 66 31.88 S 067 28.73 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	560.448	34.7137	1.3958	3.027797	6.0874e-02	97.2145	0.0342
2	560.448	34.7137	1.3958	3.027797	6.0874e-02	97.2145	0.0342
3	500.968	34.7051	1.3729	3.022466	6.0950e-02	97.1825	0.0231
4	401.249	34.6965	1.3796	3.017900	6.0856e-02	97.3279	0.0358
5	300.815	34.6382	1.2315	2.995971	6.1034e-02	97.2626	0.0267
6	200.00	34.5124	0.8383	2.947745	6.0725e-02	96.9848	0.0257
7	100.836	34.2356	-0.2771	2.827363	6.0954e-02	96.2331	0.0226
8	50.859	33.9880	-1.4626	2.708024	6.3620e-02	96.2969	0.0513
9	30.974	33.9434	-1.7051	2.683922	7.8429e-02	96.4511	0.0707
10	20.940	33.8993	-1.8286	2.670154	1.0833e-01	96.5977	0.0588
11	15.855	33.8976	-1.8305	2.669649	1.6023e-01	96.6113	0.0628
12	10.869	33.9253	-1.8045	2.673675	2.8276e-01	96.5653	0.0225
13	6.116	33.8983	-1.8256	2.669652	4.8811e-01	96.6010	0.0283
14	6.075	33.8979	-1.8255	2.669630	4.9362e-01	96.5944	0.0205
15	1.359	33.8953	-1.8238	2.669366	1.5048e+00	96.4947	0.0383

16	1.419	33.8979	-1.8264	2.669345	1.3968e+00	96.5421	0.0370
Station:Crystal Sound 3 Cast#:4 Aug 06 2002 07:14:01 66 34.11 S 067 32.67 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	207.141	34.4896	0.7663	2.940129	6.0421e-02	96.5748	0.0274
2	207.135	34.4893	0.7664	2.940124	6.0811e-02	96.5339	0.0275
3	150.769	34.3139	0.1834	2.874450	6.0744e-02	95.9590	0.0233
4	100.540	34.2144	-0.2021	2.832070	6.0371e-02	95.8282	0.0260
5	75.122	34.1440	-0.4878	2.801650	6.1045e-02	95.8876	0.0271
6	50.061	34.0561	-0.9352	2.756651	6.3379e-02	96.1683	0.0197
7	29.641	33.9848	-1.3133	2.719157	8.0027e-02	96.2577	0.0269
8	20.566	33.9862	-1.2987	2.720048	1.1267e-01	96.2604	0.0240
9	15.019	33.9830	-1.3448	2.715749	1.6488e-01	96.2898	0.0244
10	10.051	33.9355	-1.6708	2.685219	2.7791e-01	96.3656	0.0369
11	4.919	33.8761	-1.7544	2.673850	6.9083e-01	96.3732	0.0625
12	4.921	33.8750	-1.7539	2.673810	7.0942e-01	96.3786	0.0606
13	1.096	33.8810	-1.6888	2.679412	1.6006e+00	96.2637	0.0548
14	1.112	33.9071	-1.6541	2.684137	1.6671e+00	96.2680	0.0569
Station:Crystal Sound 7 Cast#:5 Aug 07 2002 04:19:58 66 41.67 S 067 07.49 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	217.544	34.5048	0.8351	2.947680	6.0725e-02	96.3378	0.0260
2	217.540	34.5053	0.8329	2.947532	6.1045e-02	96.3367	0.0262
3	150.381	34.4012	0.5314	2.910676	6.0835e-02	96.4527	0.0166
4	100.410	34.2100	-0.6139	2.797138	6.0853e-02	96.3056	0.0240
5	74.191	34.0923	-1.4172	2.720391	6.1017e-02	96.4135	0.0328
6	50.456	34.0176	-1.5432	2.703488	6.2742e-02	95.9290	0.0287
7	30.138	33.9905	-1.6344	2.693090	7.6974e-02	95.9464	0.0221
8	19.808	33.9766	-1.7465	2.682381	1.1390e-01	96.0141	0.0352
9	14.811	33.9761	-1.7477	2.682023	1.6924e-01	96.0588	0.0522
10	10.105	33.9732	-1.7370	2.682480	2.7063e-01	96.0277	0.0293
11	5.001	33.9700	-1.7373	2.681988	5.5734e-01	95.9830	0.0303
12	4.986	33.9740	-1.7450	2.681646	5.5387e-01	95.9727	0.0180
13	0.884	33.9742	-1.7331	2.682448	1.4668e+00	96.0141	0.0519
14	0.927	33.9742	-1.7350	2.682294	1.4860e+00	96.0010	0.0489
Station:Crystal Sound 6 Cast#:6 Aug 07 2002 06:33:47 66 37.85 S 067 15.61 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	555.888	34.6983	1.3330	3.020927	6.1112e-02	96.8419	0.0379
2	555.891	34.6982	1.3330	3.020923	6.1143e-02	96.8223	0.0250
3	500.561	34.6953	1.3291	3.017887	6.1129e-02	96.9509	0.0162
4	400.390	34.6790	1.2962	3.009254	6.1085e-02	96.9487	0.0507
5	300.454	34.6176	1.1361	2.986098	6.1097e-02	96.5879	0.0256
6	200.230	34.5097	0.8733	2.950553	6.1118e-02	96.5781	0.0204
7	100.542	34.1422	-1.0710	2.753975	6.1122e-02	96.5105	0.0263
8	75.122	34.0790	-1.4200	2.719243	6.1477e-02	96.4081	0.0307
9	50.034	34.0160	-1.6999	2.690442	6.4033e-02	96.3628	0.0254
10	30.050	33.9920	-1.7600	2.682854	7.9060e-02	96.2833	0.0242
11	19.891	33.9910	-1.7784	2.680801	1.1855e-01	96.2964	0.0508
12	15.240	33.9867	-1.7930	2.679080	1.5879e-01	96.3051	0.0398
13	10.305	33.9868	-1.7917	2.678968	2.6944e-01	96.3045	0.0164
14	5.155	33.9868	-1.7915	2.678745	6.6583e-01	96.2849	0.0665
15	5.157	33.9869	-1.7933	2.678610	6.3738e-01	96.2947	0.0641
16	0.831	33.9864	-1.7899	2.678646	1.7142e+00	96.2882	0.0296
17	0.822	33.9864	-1.7898	2.678658	1.7080e+00	96.2021	0.0287
Station:Crystal Sound 5 Cast#:7 Aug 07 2002 08:57:56 66 35.01 S 067 27.83 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	849.031	34.7134	1.4141	3.042097	6.1054e-02	96.9269	0.0242
2	849.047	34.7135	1.4140	3.042098	6.1109e-02	96.9563	0.0153
3	800.824	34.7121	1.4078	3.039335	6.0881e-02	96.8217	0.0551
4	600.584	34.7037	1.3800	3.027418	6.0700e-02	96.9601	0.0267
5	400.788	34.6904	1.3796	3.017400	6.0922e-02	97.1563	0.0276
6	300.493	34.6559	1.2836	3.001845	6.1243e-02	97.1062	0.0246
7	250.134	34.5929	1.0627	2.975564	6.0954e-02	96.8773	0.0507
8	200.045	34.5065	0.8193	2.945663	6.0996e-02	96.7377	0.0297
9	100.197	34.1983	-0.2884	2.823593	6.1003e-02	95.9579	0.0189
10	74.809	34.0217	-1.6283	2.697881	6.0748e-02	96.0969	0.0270
11	49.263	33.9649	-1.6740	2.688864	6.3028e-02	96.2163	0.0549
12	29.923	33.9457	-1.6030	2.692439	7.7846e-02	96.2778	0.0272
13	20.356	33.9368	-1.6183	2.690093	1.1213e-01	96.2887	0.0673
14	15.198	33.9314	-1.6253	2.688898	1.6630e-01	96.2778	0.0178
15	10.285	33.9075	-1.6960	2.681142	2.6428e-01	96.4250	0.0276
16	4.974	33.8985	-1.7164	2.678571	6.3872e-01	96.3666	0.0355
17	5.006	33.8839	-1.7551	2.674354	6.0738e-01	96.3928	0.0162
18	0.869	33.9159	-1.6645	2.683905	1.9338e+00	96.1917	0.0475

19	0.873	33.9166	-1.6658	2.683844	1.9703e+00	96.2244	0.0453
Station:Crystal Sound 4 Cast#:8 Aug 07 2002 11:21:11 66 31.73 S 067 38.14 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	223.417	34.4811	0.7320	2.937286	6.0230e-02	96.3007	0.0152
2	223.429	34.4797	0.7277	2.936802	6.0648e-02	96.3045	0.0184
3	198.180	34.4050	0.4856	2.909241	6.0793e-02	96.3149	0.0207
4	150.094	34.3321	0.2394	2.880553	6.0580e-02	96.2609	0.0140
5	100.283	34.2413	-0.1052	2.842246	6.0800e-02	95.8892	0.0187
6	74.006	34.1089	-0.7411	2.777810	6.1003e-02	95.9170	0.0177
7	50.325	34.0218	-1.4047	2.715231	6.2483e-02	95.9999	0.0222
8	29.853	33.9929	-1.4023	2.712397	7.3467e-02	96.1263	0.0344
9	19.705	33.9580	-1.5387	2.698150	1.1111e-01	96.2277	0.0618
10	13.862	33.9514	-1.5629	2.695411	1.4289e-01	96.2413	0.0301
11	9.460	33.9481	-1.5644	2.694853	2.9645e-01	96.2419	0.0296
12	4.638	33.9484	-1.6446	2.688047	8.1738e-01	96.2375	0.0327
13	4.507	33.9416	-1.6645	2.685919	8.8289e-01	96.2408	0.0302
14	0.793	33.9403	-1.6220	2.689154	1.7158e+00	96.2571	0.0306
15	0.879	33.9384	-1.6255	2.688727	1.7871e+00	96.2566	0.0325
Station:Transitl Cast#:10 Aug 09 2002 15:29:36 67 11.29 S 070 33.04 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	469.643	34.7181	1.3033	3.016055	6.0920e-02	96.2658	0.0229
2	469.636	34.7181	1.3033	3.016050	6.0905e-02	96.2702	0.0219
3	400.433	34.7091	1.3438	3.015749	6.0996e-02	97.0223	0.0220
4	299.619	34.6927	1.3582	3.011146	6.0892e-02	97.2713	0.0251
5	198.990	34.6417	1.2488	2.993103	6.1551e-02	97.1492	0.0307
6	99.648	34.2605	-0.1234	2.842124	9.5097e-02	97.1443	0.0190
7	74.274	33.9590	-1.2424	2.725185	1.8901e-01	96.9928	0.0306
8	50.187	33.8008	-1.8058	2.666308	6.5723e-01	96.8926	0.0381
9	30.049	33.7983	-1.8098	2.664886	2.9457e+00	96.9040	0.0348
10	19.894	33.7982	-1.8102	2.664375	7.9757e+00	96.9013	0.0233
11	14.825	33.7981	-1.8110	2.664070	1.5545e+01	96.9160	0.0410
12	10.147	33.7975	-1.8049	2.664321	2.7061e+01	96.9198	0.0700
13	4.988	33.7980	-1.8061	2.664023	5.1587e+01	96.8986	0.0243
14	4.996	33.7974	-1.8059	2.663999	5.1469e+01	96.9084	0.0295
15	0.388	33.7976	-1.8053	2.663849	1.1986e+02	96.8342	0.0620
16	0.395	33.7979	-1.8061	2.663808	1.1406e+02	96.8911	0.0628
Station:75 Cast#:11 Aug 11 2002 20:55:35 68 40.301 S 076 10.137 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	405.820	34.7149	1.3304	3.015282	6.0907e-02	96.5421	0.0306
2	405.810	34.7149	1.3305	3.015288	6.1115e-02	96.5525	0.0354
3	300.920	34.6547	1.2464	2.998550	6.1041e-02	96.8811	0.0224
4	189.621	34.3927	-0.0100	2.865783	6.1077e-02	96.9699	0.0189
5	189.626	34.3897	-0.0782	2.859783	6.1048e-02	96.9650	0.0259
6	189.634	34.3825	-0.0784	2.859220	6.0985e-02	96.9650	0.0295
7	189.645	34.3798	-0.0837	2.858570	6.1111e-02	96.9640	0.0294
8	189.657	34.3783	-0.0834	2.858489	6.1076e-02	96.9650	0.0267
9	189.660	34.3764	-0.0827	2.858395	6.1045e-02	96.9574	0.0372
10	189.659	34.3757	-0.0837	2.858260	6.1043e-02	96.9601	0.0350
11	189.644	34.3748	-0.0837	2.858194	6.1007e-02	96.9640	0.0375
12	189.641	34.3741	-0.0837	2.858135	6.1025e-02	96.9650	0.0389
13	189.636	34.3737	-0.0836	2.858115	6.1122e-02	96.9645	0.0393
14	101.020	34.1148	-1.8297	2.689163	6.1252e-02	96.9373	0.0210
15	50.380	34.1104	-1.8337	2.686194	6.8369e-02	96.9345	0.0273
16	30.543	34.1084	-1.8240	2.685934	9.1681e-02	96.9427	0.0330
17	19.851	34.0996	-1.7921	2.687448	1.4085e-01	96.9274	0.0568
18	15.235	34.0766	-1.8040	2.684601	2.0192e-01	96.9318	0.0284
19	10.116	34.0373	-1.8203	2.680217	3.0001e-01	96.8768	0.0213
20	5.264	34.0546	-1.8131	2.681825	6.2151e-01	96.8942	0.0315
21	0.705	34.0580	-1.8101	2.682107	1.6886e+00	96.8920	0.0612
22	0.687	34.0562	-1.8101	2.681973	1.6760e+00	96.8866	0.0574
Station:76 Cast#:13 Aug 12 2002 08:41:22 68 44.92 S 075 41.75 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	454.321	34.6973	1.3096	3.014274	6.0875e-02	96.0729	0.0355
2	454.323	34.6973	1.3096	3.014278	6.0976e-02	96.0762	0.0426
3	400.435	34.6805	1.2898	3.008820	6.1143e-02	96.5808	0.0178
4	299.514	34.6228	1.1118	2.984373	6.0896e-02	96.8261	0.0352
5	199.914	34.4435	0.2873	2.895356	6.0929e-02	96.9122	0.0219
6	149.506	34.2201	-0.7877	2.785581	6.0863e-02	96.9089	0.0213
7	100.171	34.0351	-1.7872	2.686911	6.0929e-02	96.8386	0.0171
8	74.790	34.0028	-1.7655	2.685224	6.1276e-02	96.8141	0.0676
9	50.124	33.9874	-1.8081	2.679481	6.3117e-02	96.8114	0.0612
10	30.140	33.9363	-1.8198	2.673951	7.6023e-02	96.7836	0.0260

11	19.929	33.9069	-1.7204	2.679539	1.1842e-01	96.7596	0.0606
12	14.876	33.8815	-1.7332	2.676437	1.7291e-01	96.7475	0.0257
13	10.068	33.8788	-1.7431	2.675201	2.8287e-01	96.7513	0.0400
14	5.249	33.8740	-1.7427	2.674675	5.6707e-01	96.7464	0.0331
15	5.234	33.8742	-1.7418	2.674764	5.6370e-01	96.7404	0.0195
16	0.710	33.8764	-1.7393	2.674918	1.8351e+00	96.7187	0.0376
17	0.703	33.8762	-1.7403	2.674819	1.6964e+00	96.7050	0.0370

Station:77 Cast#:15 Aug 12 2002 21:02:27 68 52.51 S 075 07.16 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	476.834	34.6895	1.3109	3.014790	6.0968e-02	96.2239	0.0204
2	476.836	34.6897	1.3110	3.014814	6.0869e-02	96.2048	0.0211
3	400.643	34.6720	1.2629	3.005841	6.0982e-02	96.3574	0.0258
4	300.502	34.6392	1.1579	2.989669	6.0798e-02	96.6451	0.0392
5	200.496	34.5059	0.6857	2.934183	6.0943e-02	96.7252	0.0253
6	99.990	34.0162	-1.4535	2.713067	6.1171e-02	96.7464	0.0249
7	50.301	33.8397	-1.8299	2.667124	6.5299e-02	96.6930	0.0314
8	30.064	33.8381	-1.8350	2.665678	8.2613e-02	96.7148	0.0232
9	20.188	33.8380	-1.8361	2.665120	1.2279e-01	96.7252	0.0309
10	14.922	33.8381	-1.8362	2.664881	1.6856e-01	96.7154	0.0262
11	10.106	33.8377	-1.8354	2.664698	2.7437e-01	96.7246	0.0303
12	5.242	33.8375	-1.8345	2.664534	5.6734e-01	96.7143	0.0248
13	5.230	33.8367	-1.8338	2.664532	5.2436e-01	96.7258	0.0283
14	0.666	33.8378	-1.8353	2.664282	1.7661e+00	96.7268	0.0250
15	0.663	33.8380	-1.8355	2.664279	1.7638e+00	96.7274	0.0229

Station:77-81 Cast#:17 Aug 13 2002 12:13:30 69 03.13 S 075 37.90 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	346.683	34.7171	1.2763	3.008088	6.0815e-02	96.3977	0.0475
2	346.697	34.7169	1.2766	3.008102	6.0940e-02	96.4075	0.0595
3	300.377	34.6829	1.2526	3.001269	6.0929e-02	96.6914	0.0342
4	300.380	34.6837	1.2538	3.001428	6.1017e-02	96.6941	0.0240
5	199.575	34.5018	0.5531	2.922481	6.1014e-02	96.7176	0.0222
6	199.579	34.5020	0.5547	2.922636	6.1043e-02	96.7247	0.0153
7	99.749	33.9611	-1.1567	2.733588	6.1059e-02	96.4707	0.0345
8	99.745	33.9619	-1.1597	2.733390	6.1028e-02	96.4599	0.0337
9	50.231	33.8581	-1.8164	2.669544	6.4743e-02	96.4282	0.0669
10	50.225	33.8580	-1.8164	2.669545	6.4728e-02	96.4326	0.0586
11	29.937	33.8559	-1.8211	2.668078	8.3749e-02	96.4386	0.0268
12	29.940	33.8559	-1.8211	2.668082	8.4280e-02	96.4184	0.0277
13	19.929	33.8311	-1.8351	2.664697	1.1295e-01	96.4091	0.0792
14	19.930	33.8308	-1.8349	2.664691	1.2564e-01	96.4042	0.0743
15	14.892	33.8186	-1.8315	2.663871	1.6963e-01	96.3977	0.0277
16	14.903	33.8187	-1.8310	2.663914	1.5786e-01	96.3961	0.0313
17	10.032	33.8191	-1.8302	2.663785	2.4076e-01	96.4004	0.0713
18	10.007	33.8192	-1.8295	2.663853	2.5559e-01	96.4015	0.0807
19	4.927	33.8188	-1.8281	2.663709	5.8731e-01	96.3939	0.0231
20	4.929	33.8188	-1.8281	2.663710	6.7338e-01	96.3992	0.0282
21	0.584	33.8210	-1.8334	2.663226	1.6931e+00	96.4010	0.0379
22	0.605	33.8212	-1.8335	2.663233	1.6379e+00	96.3993	0.0295

Station:81 Cast#:19 Aug 13 2002 20:43:13 69 00.20 S 076 18.79 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	395.793	34.7198	1.2915	3.011834	6.0982e-02	96.4740	0.0206
2	395.801	34.7197	1.2910	3.011796	6.0561e-02	96.4549	0.0119
3	315.247	34.7011	1.4132	3.017280	6.0992e-02	96.8958	0.0301
4	200.765	34.4717	0.4084	2.907867	6.0926e-02	96.7230	0.0552
5	150.638	34.2353	-0.8246	2.783661	6.1287e-02	96.7230	0.0213
6	100.333	34.1243	-1.6243	2.706767	6.2501e-02	96.7317	0.0292
7	75.591	34.0805	-1.6651	2.699108	6.5082e-02	96.7181	0.0327
8	50.475	34.0260	-1.6128	2.698353	7.2853e-02	96.6811	0.0231
9	30.599	33.9629	-1.7111	2.684810	9.9182e-02	96.6353	0.0439
10	20.359	33.9218	-1.8046	2.673714	1.4699e-01	96.6206	0.0242
11	15.464	33.9144	-1.8186	2.671809	2.0123e-01	96.6244	0.0772
12	9.930	33.9114	-1.8233	2.670957	3.2816e-01	96.6217	0.0243
13	5.091	33.9112	-1.8242	2.670641	5.8384e-01	96.6298	0.0282
14	5.095	33.9110	-1.8240	2.670650	5.7132e-01	96.6331	0.0453
15	0.725	33.9106	-1.8251	2.670327	1.8151e+00	96.6244	0.0278
16	0.729	33.9106	-1.8250	2.670338	1.7292e+00	96.6369	0.0241

Station:82 Cast#:20 Aug 14 2002 12:02:02 68 45.42 S 076 42.69 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	405.861	34.7239	1.4077	3.022695	6.0766e-02	96.8593	0.0134
2	405.877	34.7243	1.4073	3.022690	6.0867e-02	96.8523	0.0173
3	365.224	34.7162	1.5040	3.028612	6.0978e-02	96.8321	0.0362
4	325.596	34.6832	1.4226	3.017154	6.1031e-02	96.8087	0.0206

5	300.385	34.6453	1.2644	2.999344	6.1118e-02	96.7950	0.0247
6	200.293	34.4079	0.1712	2.882797	6.0929e-02	96.8223	0.0465
7	150.409	34.1756	-1.4313	2.728749	6.0919e-02	96.8310	0.0646
8	100.109	34.1274	-1.7637	2.695461	6.0804e-02	96.8256	0.0527
9	74.835	34.1137	-1.8036	2.690028	6.1686e-02	96.8201	0.0275
10	49.843	34.0851	-1.8337	2.684361	6.5246e-02	96.8010	0.0641
11	29.648	34.0840	-1.8355	2.683201	8.4910e-02	96.8021	0.0295
12	19.975	34.0849	-1.8334	2.682993	1.3063e-01	96.8027	0.0547
13	15.021	34.0843	-1.8355	2.682547	1.8754e-01	96.8043	0.0605
14	10.068	34.0842	-1.8379	2.682121	2.7799e-01	96.7918	0.0548
15	4.982	34.0845	-1.8393	2.681787	5.7877e-01	96.7999	0.0239
16	4.985	34.0834	-1.8366	2.681935	5.7742e-01	96.8021	0.0200
17	0.987	34.0794	-1.8376	2.681386	1.3088e+00	96.8087	0.0551
18	0.985	34.0836	-1.8376	2.681682	1.2787e+00	96.7999	0.0527

Station:75 Cast#:21 Aug 14 2002 16:32:13 68 31.33 S 076 17.41 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	1172.113	34.7201	0.9719	3.018345	6.0940e-02	96.8174	0.0203
2	1172.121	34.7204	0.9712	3.018312	6.1028e-02	96.8136	0.0232
3	949.813	34.7268	1.2275	3.031377	6.1038e-02	96.8114	0.0306
4	700.170	34.7293	1.4490	3.039840	6.0982e-02	96.8310	0.0254
5	600.436	34.7276	1.5253	3.041909	6.0936e-02	96.8310	0.0487
6	475.331	34.7195	1.6398	3.045629	6.1094e-02	96.8550	0.0093
7	350.628	34.7028	1.7981	3.052470	6.1062e-02	96.8680	0.0208
8	279.675	34.6797	1.8152	3.048912	6.1161e-02	96.8588	0.0215
9	243.713	34.6506	1.7163	3.036361	6.0819e-02	96.8266	0.0251
10	199.805	34.5601	1.1509	2.978319	6.0936e-02	96.7967	0.0161
11	150.000	34.3823	0.0350	2.867003	6.0975e-02	96.7535	0.0269
12	99.617	34.1389	-1.7680	2.695908	6.1243e-02	96.6974	0.0443
13	74.984	34.1096	-1.8303	2.687546	6.1039e-02	96.6963	0.0528
14	50.270	34.1035	-1.8394	2.685224	6.1227e-02	96.7241	0.0246
15	30.241	34.0983	-1.8453	2.683445	6.1502e-02	96.7257	0.0263
16	20.172	34.0912	-1.8503	2.682061	6.1995e-02	96.7404	0.0622
17	14.912	34.0898	-1.8493	2.681803	6.2372e-02	96.7448	0.0185
18	10.018	34.0889	-1.8389	2.682373	6.3264e-02	96.7312	0.0209
19	4.744	34.0898	-1.8380	2.682267	6.4377e-02	96.7295	0.0499
20	4.734	34.0901	-1.8346	2.682570	6.4276e-02	96.7246	0.0626
21	0.842	34.0913	-1.8439	2.681712	6.5886e-02	96.7072	0.0206
22	0.846	34.0914	-1.8447	2.681649	6.5833e-02	96.7257	0.0149

Station:74 Cast#:23 Aug 15 2002 00:38:03 68 16.43 S 075 38.32 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	1685.969	34.7112	0.6899	3.014941	6.1121e-02	96.8539	0.0170
2	1685.970	34.7112	0.6899	3.014942	6.0703e-02	96.8484	0.0102
3	1401.798	34.7158	0.8630	3.018357	6.0685e-02	96.8822	0.0142
4	1199.675	34.7206	1.0170	3.023453	6.0797e-02	96.8828	0.0108
5	999.390	34.7266	1.2029	3.031384	6.0950e-02	96.8844	0.0161
6	800.209	34.7285	1.3519	3.035759	6.0881e-02	96.8577	0.0098
7	500.185	34.7220	1.5713	3.040988	6.1066e-02	96.8577	0.0111
8	399.565	34.7074	1.6355	3.040893	6.0968e-02	96.8855	0.0110
9	299.047	34.6657	1.5905	3.029143	6.1424e-02	96.8822	0.0314
10	249.785	34.5676	0.9821	2.966642	6.0978e-02	96.8288	0.0153
11	150.490	34.2324	-0.9238	2.775147	6.0867e-02	96.7841	0.0231
12	99.356	34.1096	-1.7328	2.696702	6.0863e-02	96.7563	0.0182
13	75.014	34.0897	-1.8295	2.686183	6.1209e-02	96.7743	0.0475
14	49.540	34.0885	-1.8345	2.684528	6.4063e-02	96.7776	0.0221
15	29.890	34.0885	-1.8355	2.683532	7.7908e-02	96.7760	0.0218
16	20.429	34.0885	-1.8355	2.683100	1.1805e-01	96.7852	0.0367
17	14.602	34.0884	-1.8368	2.682715	1.7933e-01	96.7749	0.0145
18	10.413	34.0884	-1.8375	2.682469	2.8683e-01	96.7787	0.0318
19	5.350	34.0879	-1.8314	2.682701	4.8926e-01	96.7656	0.0220
20	5.369	34.0879	-1.8317	2.682682	4.8993e-01	96.7727	0.0243
21	0.761	34.0886	-1.8322	2.682478	1.6667e+00	96.7585	0.0321
22	0.777	34.0881	-1.8320	2.682455	1.6611e+00	96.7535	0.0347

Station:73 Cast#:25 Aug 15 2002 09:26:36 68 27.88 S 075 00.95 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	409.473	34.7064	1.3407	3.015669	6.0891e-02	96.2021	0.0161
2	409.477	34.7064	1.3407	3.015673	6.0940e-02	96.2103	0.0163
3	340.505	34.6804	1.3168	3.008447	6.0950e-02	96.5873	0.0517
4	300.624	34.6511	1.1958	2.993879	6.1045e-02	96.6238	0.0279
5	200.120	34.4638	0.3824	2.905020	6.0982e-02	96.7225	0.0430
6	150.379	34.2176	-0.8901	2.776869	6.0873e-02	96.7530	0.0230
7	100.318	34.1089	-1.6475	2.703744	6.0863e-02	96.7481	0.0295
8	74.904	34.0920	-1.7951	2.689176	6.1403e-02	96.7486	0.0296

9	50.105	34.0589	-1.8425	2.681764	6.4959e-02	96.7334	0.0488
10	30.214	33.9607	-1.8314	2.674747	8.1231e-02	96.6729	0.0572
11	20.028	33.9458	-1.8405	2.672463	1.1287e-01	96.6707	0.0239
12	15.070	33.9449	-1.8424	2.672015	1.7306e-01	96.6712	0.0168
13	10.195	33.9442	-1.8350	2.672348	2.6674e-01	96.6696	0.0278
14	4.938	33.9445	-1.8384	2.671853	5.4355e-01	96.6707	0.0625
15	4.980	33.9444	-1.8379	2.671887	4.9677e-01	96.6603	0.0595
16	0.527	33.9448	-1.8402	2.671525	1.4476e+00	96.6511	0.0143
17	0.416	33.9447	-1.8397	2.671558	1.3891e+00	96.6249	0.0191

Station: near 72 Cast#: 28 Aug 15 2002 20:15:03 68 35.24 S 074 04.25 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	666.770	34.7056	1.3489	3.027814	6.1091e-02	96.1710	0.0172
2	666.774	34.7057	1.3489	3.027820	6.0966e-02	96.1580	0.0179
3	549.917	34.7004	1.3417	3.021582	6.1020e-02	96.3988	0.0216
4	449.872	34.6829	1.3105	3.013034	6.0977e-02	96.4882	0.0557
5	349.692	34.6548	1.2370	2.999953	6.1045e-02	96.6195	0.0551
6	300.154	34.6221	1.1311	2.986011	6.1122e-02	96.5470	0.0170
7	250.095	34.5708	0.9599	2.964998	6.1122e-02	96.5339	0.0188
8	199.994	34.4324	0.5174	2.914127	6.1076e-02	96.4658	0.0187
9	149.862	34.2258	-0.2586	2.830424	6.1206e-02	96.6135	0.0164
10	100.174	33.8621	-1.8142	2.672289	6.2588e-02	96.6511	0.0336
11	74.662	33.8575	-1.8245	2.669962	6.5830e-02	96.6849	0.0327
12	49.509	33.8570	-1.8254	2.668698	7.9152e-02	96.7034	0.0235
13	29.490	33.8566	-1.8287	2.667487	1.2345e-01	96.6816	0.0270
14	19.923	33.8574	-1.8315	2.666874	2.0187e-01	96.7067	0.0574
15	15.356	33.8574	-1.8315	2.666668	2.6414e-01	96.7154	0.0195
16	10.378	33.8571	-1.8312	2.666442	4.1405e-01	96.7154	0.0382
17	5.455	33.8574	-1.8303	2.666308	8.8054e-01	96.4669	0.0253
18	5.459	33.8573	-1.8300	2.666327	8.4016e-01	96.7187	0.0242
19	0.545	33.8572	-1.8278	2.666280	2.5214e+00	96.7094	0.0532
20	0.545	33.8574	-1.8270	2.666351	2.4854e+00	96.6881	0.0668

Station: 65 Cast#: 30 Aug 17 2002 15:10:59 68 05.12 S 074 42.16 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	385.436	34.7187	1.5312	3.032090	6.1416e-02	96.7732	0.0259
2	385.434	34.7187	1.5313	3.032094	6.1168e-02	96.7547	0.0358
3	349.313	34.7110	1.5715	3.033347	6.1118e-02	96.7743	0.0560
4	277.315	34.6913	1.7871	3.047279	6.1270e-02	96.8512	0.0538
5	220.262	34.5106	0.6875	2.935603	6.3404e-02	96.7263	0.0336
6	149.580	34.2514	-0.7601	2.790204	9.0862e-02	96.7383	0.0112
7	100.009	34.1220	-1.6515	2.704337	2.8279e-01	96.7650	0.0474
8	74.810	34.1027	-1.7788	2.691290	7.6130e-01	96.7716	0.0556
9	49.902	34.0728	-1.8350	2.683371	2.7622e+00	96.7481	0.0129
10	30.162	34.0412	-1.8509	2.678896	8.6537e+00	96.7383	0.0406
11	19.907	34.0351	-1.8536	2.677772	1.6435e+01	96.7295	0.0506
12	15.357	34.0343	-1.8540	2.677465	2.1586e+01	96.7470	0.0623
13	10.094	34.0340	-1.8544	2.677175	3.0951e+01	96.7513	0.0182
14	4.767	34.0344	-1.8506	2.677277	4.6269e+01	96.7497	0.0222
15	4.816	34.0345	-1.8518	2.677178	4.4904e+01	96.7513	0.0183
16	0.174	34.0342	-1.8505	2.677051	2.6679e+02	96.7350	0.0499
17	0.103	34.0343	-1.8509	2.677028	2.6478e+02	96.7503	0.0510

Station: 41-42 Cast#: 31 Aug 19 2002 12:12:26 67 32.93 S 071 35.71 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	433.527	34.7045	1.3893	3.020816	6.1091e-02	95.6549	0.0164
2	433.682	34.7045	1.3895	3.020843	6.1122e-02	95.6440	0.0289
3	400.207	34.7043	1.3876	3.019153	6.1157e-02	95.7862	0.0083
4	310.945	34.6712	1.2973	3.004698	6.1153e-02	96.1781	0.0153
5	200.493	34.5461	0.9015	2.955794	6.1244e-02	96.3029	0.0277
6	150.537	34.3685	0.2240	2.882023	6.1742e-02	96.2609	0.0558
7	100.466	33.9774	-1.4036	2.714395	6.8444e-02	96.3574	0.0260
8	75.244	33.9016	-1.7913	2.675866	9.5387e-02	96.2958	0.0414
9	49.866	33.8956	-1.8068	2.673009	2.3397e-01	96.2920	0.0285
10	29.857	33.8937	-1.8149	2.671295	7.0307e-01	96.2686	0.0363
11	19.989	33.8933	-1.8160	2.670717	1.3164e+00	96.2855	0.0211
12	14.686	33.8933	-1.8169	2.670400	1.9855e+00	96.2865	0.0228
13	10.182	33.8931	-1.8181	2.670082	3.0975e+00	96.2882	0.0324
14	5.088	33.8930	-1.8153	2.670075	4.9802e+00	96.2756	0.0349
15	5.054	33.8930	-1.8148	2.670117	5.0538e+00	96.2800	0.0289
16	0.202	33.8926	-1.8154	2.669813	1.0582e+01	96.2124	0.0254
17	0.182	33.8926	-1.8154	2.669811	1.0485e+01	96.2173	0.0232

Station: 43 Cast#: 33 Aug 20 2002 15:26:57 67 13.14 S 072 28.14 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	392.902	34.7067	1.3681	3.017321	6.1396e-02	95.7977	0.0212

2	392.916	34.7067	1.3681	3.017319	6.1290e-02	95.8091	0.0125
3	300.259	34.6878	1.3492	3.010012	6.1399e-02	96.6326	0.0297
4	250.206	34.6607	1.2987	3.001238	6.2105e-02	96.6124	0.0171
5	200.404	34.6092	1.1377	2.981031	6.6520e-02	96.5356	0.0326
6	150.136	34.5019	0.7396	2.936192	9.3705e-02	96.5290	0.0497
7	125.342	34.4001	0.3823	2.896740	1.4183e-01	96.5432	0.0393
8	100.438	34.1783	-0.3932	2.813297	2.7792e-01	96.5328	0.0182
9	90.366	33.9137	-1.6724	2.687187	3.9659e-01	96.4871	0.0323
10	75.465	33.8975	-1.7562	2.678459	7.3749e-01	96.5023	0.0270
11	49.639	33.8951	-1.7716	2.675844	2.5552e+00	96.5105	0.0265
12	49.638	33.8954	-1.7723	2.675808	2.5474e+00	96.5290	0.0288
13	30.188	33.8939	-1.7843	2.673830	8.4138e+00	96.5296	0.0292
14	30.191	33.8878	-1.7805	2.673705	8.4336e+00	96.5143	0.0275
15	19.919	33.8943	-1.7794	2.673790	1.7831e+01	96.5219	0.0287
16	15.168	33.8935	-1.7891	2.672718	2.6196e+01	96.5323	0.0166
17	10.335	33.8943	-1.7838	2.672988	3.7914e+01	96.4947	0.0305
18	5.324	33.8936	-1.7810	2.672942	5.3146e+01	96.5236	0.0656
19	5.315	33.8942	-1.7793	2.673126	5.3467e+01	96.5203	0.0547
20	0.343	33.8931	-1.7864	2.672231	3.2748e+02	96.4985	0.0285
21	0.356	33.8928	-1.7852	2.672311	3.5771e+02	96.4326	0.0291

Station:44 Cast#:34 Aug 21 2002 10:47:01 66 59.74 S 073 24.04 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	2000.371	34.7095	0.7411	3.032022	6.0877e-02	96.7443	0.0163
2	2000.338	34.7094	0.7414	3.032042	6.0811e-02	96.7508	0.0096
3	1600.315	34.7166	0.9626	3.035309	6.0866e-02	96.7508	0.0020
4	1201.232	34.7239	1.1907	3.038789	6.1140e-02	96.7486	0.0145
5	801.459	34.7290	1.4888	3.047736	6.1104e-02	96.7410	0.0218
6	501.865	34.7145	1.7830	3.058883	6.1197e-02	96.7241	0.0178
7	300.968	34.6793	1.9115	3.058228	6.1297e-02	96.7372	0.0171
8	250.393	34.6636	1.9817	3.060796	6.1122e-02	96.7372	0.0590
9	200.349	34.6276	1.9172	3.050034	6.1721e-02	96.6832	0.0133
10	149.994	34.5274	1.4760	3.001545	6.4447e-02	96.5906	0.0488
11	100.258	34.1376	-1.0742	2.753357	8.2249e-02	96.4778	0.0243
12	75.158	34.0396	-1.7385	2.690103	1.2498e-01	96.5029	0.0299
13	50.242	34.0238	-1.8286	2.680404	2.5968e-01	96.5481	0.0237
14	29.969	34.0233	-1.8314	2.679212	6.1196e-01	96.5503	0.0274
15	19.773	34.0233	-1.8323	2.678672	1.0964e+00	96.5574	0.0345
16	15.078	34.0231	-1.8334	2.678350	1.5711e+00	96.5683	0.0618
17	10.180	34.0231	-1.8341	2.678070	2.3779e+00	96.5715	0.0472
18	5.441	34.0232	-1.8325	2.677993	3.9334e+00	96.5617	0.0541
19	5.447	34.0233	-1.8325	2.678000	3.9427e+00	96.5388	0.0714
20	0.606	34.0232	-1.8347	2.677585	9.2439e+00	96.5214	0.0184
21	0.635	34.0232	-1.8345	2.677599	9.5293e+00	96.4544	0.0251

Station:45 Cast#:35 Aug 22 2002 00:58:32 67 12.69 S 074 29.39 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	2001.961	34.7084	0.6693	3.025834	1.3716e+00	96.3983	0.0203
2	2002.221	34.7082	0.6694	3.025832	1.3664e+00	96.4037	0.0081
3	1599.819	34.7136	0.8614	3.026327	1.4187e+00	96.4620	0.0082
4	1299.986	34.7198	1.0486	3.030387	1.5999e+00	96.4838	0.0100
5	1000.695	34.7262	1.2547	3.035900	1.4029e+00	96.5143	0.0229
6	700.689	34.7295	1.4836	3.042879	1.3759e+00	96.5410	0.0481
7	400.841	34.7106	1.7443	3.050674	1.7122e+00	96.5655	0.0144
8	290.520	34.6878	1.8174	3.050228	1.5848e+00	96.5650	0.0201
9	290.536	34.6881	1.8141	3.049972	1.5941e+00	96.5672	0.0150
10	198.059	34.5752	1.2743	2.990067	1.3694e+00	96.4778	0.0460
11	150.385	34.3866	0.1913	2.880613	1.2902e+00	96.4467	0.0309
12	100.644	34.0816	-1.5103	2.713128	1.9348e+00	96.3612	0.0360
13	74.899	34.0319	-1.8011	2.684383	3.2012e+00	96.3639	0.0412
14	50.441	34.0300	-1.8124	2.682195	3.5933e+00	96.4042	0.0302
15	29.998	34.0298	-1.8147	2.681049	5.7561e+00	96.4042	0.0316
16	20.109	34.0300	-1.8141	2.680667	2.5194e+00	96.4026	0.0292
17	15.446	34.0300	-1.8141	2.680454	1.7371e+00	96.4124	0.0253
18	10.125	34.0294	-1.8203	2.679652	1.5051e+00	96.4086	0.0387
19	5.075	34.0297	-1.8072	2.680524	1.3742e+00	96.4021	0.0268
20	5.059	34.0300	-1.8077	2.680502	1.4313e+00	96.3983	0.0247
21	0.550	34.0300	-1.8107	2.680042	1.4240e+00	96.3781	0.0162
22	0.560	34.0302	-1.8088	2.680209	1.3968e+00	96.3454	0.0206

Station:46 Cast#:37 Aug 22 2002 21:02:24 67 27.39 S 073 48.01 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	425.892	34.7016	1.5647	3.035464	6.0682e-02	96.3944	0.0224
2	425.918	34.7015	1.5647	3.035462	6.0781e-02	96.3508	0.0252
3	350.592	34.6900	1.5583	3.030604	6.1038e-02	96.5388	0.0208

4	299.967	34.6861	1.7056	3.040805	6.1035e-02	96.6375	0.0143
5	250.652	34.6586	1.7189	3.037538	6.1185e-02	96.6168	0.0296
6	150.383	34.3090	-0.3247	2.831109	6.2012e-02	96.5110	0.0587
7	120.895	34.1941	-0.9284	2.770599	6.3521e-02	96.5149	0.0141
8	74.836	34.0464	-1.7585	2.688930	7.6039e-02	96.5045	0.0215
9	49.682	34.0228	-1.7260	2.688760	1.0817e-01	96.5165	0.0201
10	49.687	34.0227	-1.7252	2.688816	1.0746e-01	96.5356	0.0222
11	30.833	34.0058	-1.7915	2.681285	1.9293e-01	96.5198	0.0215
12	30.834	33.9993	-1.8053	2.679683	1.9365e-01	96.5187	0.0228
13	20.089	33.9895	-1.8261	2.676779	3.4683e-01	96.5034	0.0239
14	20.093	33.9895	-1.8259	2.676794	3.4782e-01	96.5018	0.0273
15	15.212	33.9891	-1.8261	2.676529	4.6273e-01	96.5339	0.0420
16	15.218	33.9889	-1.8274	2.676403	4.6631e-01	96.5252	0.0388
17	10.620	33.9903	-1.8222	2.676722	6.5275e-01	96.5241	0.0199
18	10.618	33.9899	-1.8235	2.676584	6.4401e-01	96.5198	0.0243
19	5.468	33.9897	-1.8202	2.676603	1.1211e+00	96.5296	0.0580
20	5.467	33.9899	-1.8206	2.676591	1.1197e+00	96.5203	0.0551
21	0.399	33.9913	-1.8227	2.676286	4.0048e+00	96.5388	0.0170
22	0.401	33.9918	-1.8231	2.676282	3.8521e+00	96.5334	0.0160

Station:64 Cast#:39 Aug 23 2002 16:01:26 67 31.01 S 075 05.50 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	2927.034	34.7038	0.3881	3.037386	1.3073e+00	96.1362	0.0316
2	2927.044	34.7037	0.3882	3.037383	1.3021e+00	96.1432	0.0298
3	2390.375	34.7049	0.5062	3.026982	1.2297e+00	96.4555	0.0403
4	1851.907	34.7099	0.7614	3.027781	8.6845e-01	96.5105	0.0138
5	1398.712	34.7179	0.9962	3.029879	8.8211e-01	96.5083	0.0153
6	1000.122	34.7256	1.2540	3.035762	8.3168e-01	96.5067	0.0146
7	698.347	34.7258	1.4954	3.043508	7.9465e-01	96.4538	0.0142
8	499.882	34.7195	1.7057	3.052471	8.0686e-01	96.5012	0.0370
9	349.982	34.7035	1.8271	3.055012	9.7077e-01	96.5225	0.0406
10	250.712	34.6722	1.8456	3.049644	1.0289e+00	96.4876	0.0104
11	149.601	34.3679	0.0713	2.868976	1.1630e+00	96.3726	0.0519
12	100.136	34.0988	-1.5166	2.713822	1.2917e+00	96.3122	0.0274
13	75.824	34.0709	-1.6797	2.697230	1.2504e+00	96.3432	0.0420
14	49.698	34.0327	-1.8300	2.680900	1.5612e+00	96.3650	0.0179
15	30.323	34.0326	-1.8306	2.679960	2.2458e+00	96.3846	0.0568
16	19.991	34.0332	-1.8311	2.679494	3.3481e+00	96.3579	0.0164
17	15.232	34.0332	-1.8308	2.679292	2.1171e+00	96.3775	0.0416
18	10.421	34.0330	-1.8308	2.679059	2.8252e+00	96.3901	0.0407
19	5.409	34.0334	-1.8065	2.680857	4.9497e+00	96.3743	0.0294
20	5.413	34.0343	-1.8131	2.680379	5.4410e+00	96.3770	0.0286
21	0.549	34.0339	-1.8214	2.679443	6.3915e+00	96.3694	0.0133
22	0.553	34.0338	-1.8211	2.679467	5.2563e+00	96.3607	0.0210

Station:63 Cast#:40 Aug 24 2002 01:49:48 67 40.47 S 074 35.00 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	2531.873	34.7039	0.4157	3.024661	5.8779e-02	96.0310	0.0402
2	2531.878	34.7038	0.4156	3.024646	5.8755e-02	96.0152	0.0503
3	2249.813	34.7052	0.5099	3.021789	5.8122e-02	96.2457	0.0159
4	1824.214	34.7100	0.7532	3.025954	5.7886e-02	96.3034	0.0391
5	1341.004	34.7180	0.9980	3.027609	5.7796e-02	96.3514	0.0303
6	930.617	34.7247	1.2559	3.032835	5.7916e-02	96.3775	0.0118
7	655.518	34.7279	1.5160	3.043565	5.8296e-02	96.3824	0.0338
8	414.703	34.7163	1.7449	3.051792	5.8614e-02	95.8108	0.0139
9	328.692	34.7035	1.8372	3.054935	5.8945e-02	96.4200	0.0420
10	297.557	34.6971	1.8596	3.054968	5.9111e-02	96.4331	0.0300
11	150.448	34.4259	0.2833	2.891418	5.9632e-02	96.2920	0.0237
12	100.200	34.2143	-0.9886	2.766107	6.0286e-02	96.2653	0.0512
13	75.315	34.1680	-1.2914	2.736372	6.0796e-02	96.2915	0.0470
14	47.098	34.0991	-1.6743	2.698379	6.1139e-02	96.2707	0.0238
15	30.429	34.0806	-1.7744	2.688034	6.2179e-02	96.2751	0.0182
16	20.105	34.0739	-1.8173	2.683543	6.3868e-02	96.2871	0.0531
17	14.878	34.0735	-1.8108	2.683813	6.3963e-02	96.2865	0.0384
18	10.516	34.0738	-1.8189	2.682962	6.4435e-02	96.2909	0.0158
19	5.551	34.0743	-1.8129	2.683256	6.3594e-02	96.2648	0.0583
20	5.554	34.0741	-1.8135	2.683202	6.3612e-02	96.2707	0.0568
21	0.652	34.0742	-1.8155	2.682818	6.6352e-02	96.2413	0.0129
22	0.627	34.0742	-1.8149	2.682862	6.6570e-02	96.2315	0.0227

Station:62 Cast#:41 Aug 24 2002 15:37:20 67 48.99 S 074 10.78 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	1085.151	34.7179	0.9770	3.014881	1.5204e+00	96.4173	0.0091
2	1085.155	34.7180	0.9769	3.014880	1.5122e+00	96.4108	0.0084
3	900.415	34.7244	1.1981	3.026503	7.2224e-01	96.4266	0.0111

4	799.613	34.7253	1.2514	3.026770	7.6446e-01	96.4260	0.0059
5	699.708	34.7264	1.3075	3.027315	6.8625e-01	96.4517	0.0182
6	599.834	34.7247	1.3914	3.030033	6.8593e-01	96.4277	0.0278
7	500.066	34.7157	1.4868	3.033146	4.0468e-01	96.3759	0.0475
8	399.943	34.7068	1.6200	3.039516	4.1502e-01	96.4784	0.0210
9	300.259	34.6700	1.5736	3.028072	4.0435e-01	96.4631	0.0182
10	199.956	34.4175	0.1706	2.883454	6.7710e-01	96.3590	0.0157
11	149.969	34.2342	-0.8875	2.778291	4.8613e-01	96.3819	0.0196
12	100.163	34.1210	-1.6246	2.706491	3.8629e-01	96.3601	0.0235
13	75.455	34.0790	-1.8018	2.687720	4.6176e-01	96.3498	0.0328
14	50.149	34.0507	-1.8518	2.680424	5.3898e-01	96.3536	0.0316
15	30.061	34.0499	-1.8544	2.679225	5.5889e-01	96.3596	0.0187
16	20.133	34.0501	-1.8546	2.678772	7.4399e-01	96.3694	0.0642
17	14.815	34.0497	-1.8518	2.678720	1.0572e+00	96.3666	0.0216
18	9.972	34.0497	-1.8491	2.678729	1.1320e+00	96.3470	0.0463
19	4.382	34.0496	-1.8474	2.678601	1.5391e+00	96.3568	0.0187
20	4.387	34.0498	-1.8475	2.678607	1.6137e+00	96.3574	0.0221
21	0.508	34.0500	-1.8468	2.678504	4.7597e+00	96.3122	0.0533
22	0.489	34.0499	-1.8467	2.678503	5.1196e+00	96.3029	0.0471

Station:48 Cast#:43 Aug 25 2002 09:08:31 67 53.71 S 072 14.37 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	290.883	34.6962	1.5087	3.024073	6.0842e-02	95.4408	0.0199
2	290.891	34.6962	1.5087	3.024075	6.0781e-02	95.4413	0.0342
3	250.359	34.6746	1.4852	3.018493	6.0992e-02	95.9366	0.0154
4	200.547	34.6092	1.2064	2.986971	6.1057e-02	95.9197	0.0565
5	150.552	34.4728	0.6001	2.922040	6.1038e-02	95.8990	0.0466
6	100.374	34.2571	-0.1695	2.838015	6.1013e-02	95.8413	0.0211
7	75.308	34.0760	-0.8130	2.769449	6.1294e-02	95.8701	0.0251
8	60.554	33.8729	-1.6857	2.681801	6.2130e-02	95.7862	0.0243
9	50.181	33.8527	-1.7929	2.671089	6.4104e-02	95.7988	0.0296
10	30.035	33.8513	-1.8028	2.669248	8.0595e-02	95.8020	0.0163
11	20.551	33.8511	-1.8061	2.668532	1.1817e-01	95.8102	0.0226
12	15.673	33.8508	-1.8083	2.668103	1.5029e-01	95.8146	0.0525
13	10.848	33.8493	-1.8101	2.667635	2.3269e-01	95.8151	0.0302
14	5.309	33.8487	-1.8117	2.667205	5.4975e-01	95.8173	0.0544
15	5.309	33.8488	-1.8110	2.667273	4.9897e-01	95.8173	0.0460
16	0.294	33.8490	-1.8101	2.667123	1.5871e+00	95.8086	0.0400
17	0.287	33.8489	-1.8111	2.667036	1.5752e+00	95.8004	0.0579

Station:49 Cast#:45 Aug 25 2002 18:26:20 68 04.47 S 071 35.94 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	429.698	34.7141	1.4337	3.025248	6.0797e-02	95.4936	0.0084
2	429.712	34.7141	1.4329	3.025181	6.1028e-02	95.5083	0.0116
3	374.500	34.6867	1.3162	3.010419	6.1017e-02	95.6478	0.0428
4	300.265	34.6661	1.3146	3.005312	6.1029e-02	95.9552	0.0263
5	250.201	34.6158	1.1322	2.983347	6.1403e-02	95.9999	0.0180
6	200.010	34.4956	0.6066	2.926597	6.2922e-02	96.0163	0.0377
7	175.147	34.3964	0.1239	2.876766	6.5482e-02	96.0217	0.0522
8	150.107	34.2891	-0.2568	2.835332	7.2080e-02	95.9159	0.0183
9	124.648	34.1982	-0.4807	2.808540	9.1700e-02	95.8990	0.0475
10	100.095	34.0078	-1.0866	2.742828	1.5157e-01	95.8701	0.0209
11	75.004	33.8587	-1.7938	2.672576	3.8338e-01	95.7203	0.0199
12	50.183	33.8604	-1.7855	2.672239	1.3229e+00	95.7345	0.0135
13	30.291	33.8589	-1.7987	2.670142	4.7024e+00	95.7388	0.0296
14	20.093	33.8579	-1.8017	2.669358	1.0974e+01	95.7437	0.0565
15	14.895	33.8572	-1.8013	2.669105	1.8435e+01	95.7497	0.0287
16	10.237	33.8561	-1.8091	2.668174	3.0174e+01	95.7530	0.0244
17	5.114	33.8576	-1.7984	2.668927	6.7606e+01	95.7623	0.0159
18	5.116	33.8577	-1.7993	2.668854	6.9134e+01	95.7050	0.0214
19	0.418	33.8564	-1.8091	2.667744	2.0953e+02	95.7530	0.0151
20	0.405	33.8564	-1.8092	2.667736	2.0695e+02	95.7530	0.0179

Station:40 Cast#:47 Aug 26 2002 13:57:34 68 02.00 S 070 23.75 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	830.101	34.7174	1.3125	3.032777	6.0767e-02	95.6800	0.0129
2	830.105	34.7174	1.3125	3.032780	6.1052e-02	95.6773	0.0104
3	700.000	34.7165	1.3146	3.027173	6.0978e-02	95.7655	0.0178
4	600.170	34.7146	1.3374	3.024568	6.0944e-02	95.9312	0.0227
5	500.187	34.7060	1.3796	3.023092	6.1090e-02	96.0828	0.0218
6	400.356	34.6981	1.4064	3.020302	6.1062e-02	96.1934	0.0228
7	300.460	34.6702	1.4003	3.013061	6.1308e-02	96.2419	0.0179
8	250.035	34.6375	1.3022	2.999721	6.1913e-02	96.2086	0.0445
9	200.123	34.5619	1.0037	2.965794	6.5145e-02	96.1721	0.0218
10	150.254	34.3216	0.0624	2.864751	8.6024e-02	96.1454	0.0154

11	100.165	33.9829	-1.4280	2.712765	2.6508e-01	95.9825	0.0585
12	90.220	33.9300	-1.7417	2.682661	3.9213e-01	95.9765	0.0146
13	75.159	33.9240	-1.8137	2.675633	7.1964e-01	95.9787	0.0167
14	50.182	33.9224	-1.8221	2.673687	2.2782e+00	95.9770	0.0202
15	30.194	33.9219	-1.8202	2.672890	6.9437e+00	95.9759	0.0237
16	20.379	33.9219	-1.8141	2.672935	1.4264e+01	95.9765	0.0156
17	10.089	33.9234	-1.8222	2.671909	3.5761e+01	95.9710	0.0228
18	5.403	33.9228	-1.8225	2.671632	5.5467e+01	95.9814	0.0146
19	5.399	33.9228	-1.8211	2.671745	5.5584e+01	95.9590	0.0177
20	0.378	33.9228	-1.8193	2.671656	2.9997e+02	95.9522	0.0217
21	0.385	33.9227	-1.8184	2.671730	3.0124e+02	95.9509	0.0247

Station:41 Cast#:49 Aug 28 2002 10:28:24 67 49.88 S 071 14.39 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	361.192	34.7029	1.3769	3.016355	6.0909e-02	95.3679	0.0323
2	361.199	34.7029	1.3768	3.016351	6.1026e-02	95.3534	0.0301
3	300.497	34.6971	1.3680	3.012375	6.1010e-02	95.5100	0.0409
4	200.232	34.5359	0.8405	2.949757	6.1011e-02	95.7955	0.0390
5	150.217	34.3775	0.3026	2.889376	6.0985e-02	95.8740	0.0226
6	100.366	34.0994	-0.7392	2.778476	6.1024e-02	95.7857	0.0364
7	75.220	33.9569	-1.2945	2.720765	6.1375e-02	95.7219	0.0242
8	50.485	33.8456	-1.7876	2.671022	6.4195e-02	95.6941	0.0313
9	30.431	33.8446	-1.7928	2.669608	8.1292e-02	95.7176	0.0216
10	20.265	33.8444	-1.7949	2.668956	1.1619e-01	95.7132	0.0236
11	15.032	33.8442	-1.7967	2.668562	1.6046e-01	95.7252	0.0451
12	10.124	33.8444	-1.7971	2.668310	2.3221e-01	95.7372	0.0206
13	5.136	33.8442	-1.7947	2.668267	5.0577e-01	95.7214	0.0125
14	5.128	33.8446	-1.7964	2.668156	5.0486e-01	95.7356	0.0134
15	0.295	33.8448	-1.7915	2.668356	3.3546e+00	95.6185	0.0292
16	0.306	33.8449	-1.7929	2.668249	2.3585e+00	95.6198	0.0281

Station:26 Cast#:51 Aug 29 2002 11:29:39 67 07.48 S 072 00.23 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	406.139	34.7084	1.3542	3.016851	6.0951e-02	95.2178	0.0201
2	406.132	34.7084	1.3542	3.016846	6.1187e-02	95.1982	0.0234
3	150.186	34.4840	0.6789	2.929618	6.1339e-02	95.9116	0.0153
4	150.238	34.4842	0.6802	2.929741	6.1262e-02	95.9437	0.0164
5	99.989	34.1963	-0.4225	2.812167	6.2695e-02	95.9803	0.0302
6	100.005	34.1968	-0.4138	2.812935	6.2670e-02	95.9689	0.0303
7	74.973	33.8976	-1.8073	2.674248	6.9215e-02	95.9732	0.0295
8	74.967	33.8974	-1.8075	2.674222	6.9230e-02	95.9721	0.0311
9	49.944	33.8941	-1.8333	2.670723	1.0847e-01	96.0092	0.0223
10	49.944	33.8941	-1.8331	2.670749	1.0826e-01	96.0201	0.0276
11	30.343	33.8945	-1.8321	2.669960	2.8660e-01	96.0021	0.0262
12	30.353	33.8946	-1.8321	2.669965	2.8903e-01	96.0146	0.0229
13	20.465	33.8943	-1.8357	2.669194	6.4099e-01	96.0136	0.0230
14	20.455	33.8944	-1.8356	2.669206	6.3758e-01	96.0212	0.0191
15	15.401	33.8944	-1.8356	2.668975	1.1935e+00	96.0283	0.0391
16	15.376	33.8944	-1.8353	2.668998	1.2022e+00	96.0228	0.0402
17	10.254	33.8943	-1.8345	2.668821	2.3792e+00	96.0299	0.0252
18	10.242	33.8943	-1.8347	2.668813	2.3869e+00	96.0283	0.0331
19	5.555	33.8945	-1.8316	2.668867	4.5286e+00	96.0283	0.0225
20	5.551	33.8945	-1.8319	2.668839	4.5798e+00	96.0315	0.0251
21	0.392	33.8941	-1.8319	2.668575	3.7424e+01	95.9579	0.0450
22	0.386	33.8942	-1.8314	2.668623	3.7363e+01	95.9574	0.0427

Station:4 Cast#:57 Sep 01 2002 09:53:27 66 09.45 S 069 06.18 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	316.414	34.7079	1.5491	3.029667	6.1038e-02	95.2969	0.0151
2	316.148	34.7079	1.5491	3.029653	6.0997e-02	95.2735	0.0146
3	150.809	34.5646	1.0922	2.971379	6.1431e-02	95.7354	0.0317
4	150.733	34.5645	1.0920	2.971344	6.1293e-02	95.7272	0.0354
5	100.597	34.3178	-0.0474	2.852905	6.1350e-02	95.7405	0.0277
6	100.308	34.3171	-0.0578	2.851957	6.1332e-02	95.7443	0.0348
7	74.866	33.9888	-1.7174	2.688180	6.1806e-02	95.7040	0.0174
8	75.144	33.9938	-1.7228	2.688106	6.1849e-02	95.6909	0.0206
9	50.538	33.9701	-1.8104	2.678069	6.5205e-02	95.7628	0.0276
10	50.457	33.9699	-1.8100	2.678089	6.5014e-02	95.7595	0.0216
11	30.670	33.9692	-1.8174	2.676525	8.1559e-02	95.7813	0.0311
12	30.696	33.9692	-1.8173	2.676536	8.0569e-02	95.7944	0.0390
13	20.241	33.9687	-1.8200	2.675802	1.1253e-01	95.7988	0.0359
14	20.102	33.9688	-1.8199	2.675807	1.1321e-01	95.7949	0.0319
15	15.074	33.9685	-1.8216	2.675416	1.5621e-01	95.7949	0.0413
16	15.036	33.9686	-1.8218	2.675400	1.4870e-01	95.7889	0.0369
17	10.229	33.9687	-1.8228	2.675107	2.2334e-01	95.7992	0.0276

18	10.298	33.9687	-1.8234	2.675064	2.3429e-01	95.8023	0.0244
19	5.248	33.9685	-1.8236	2.674802	4.5946e-01	95.8102	0.0296
20	5.280	33.9686	-1.8236	2.674809	4.4736e-01	95.8031	0.0382
21	0.261	33.9689	-1.8219	2.674736	1.7745e+00	95.7666	0.0396
22	0.262	33.9688	-1.8223	2.674696	1.9656e+00	95.7824	0.0401

Station:3 Cast#:59 Sep 01 2002 19:16:07 65 57.19 S 069 49.08 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	339.225	34.7070	1.5343	3.029342	6.1242e-02	95.3122	0.0253
2	339.512	34.7070	1.5341	3.029330	6.1428e-02	95.2909	0.0402
3	339.453	34.7069	1.5344	3.029354	6.1255e-02	95.3007	0.0293
4	339.379	34.7069	1.5342	3.029333	6.1343e-02	95.2909	0.0302
5	260.644	34.7008	1.5867	3.029839	6.2318e-02	95.9596	0.0472
6	199.503	34.6465	1.4115	3.007583	6.9317e-02	96.0163	0.0217
7	149.636	34.5357	0.9156	2.953886	1.0745e-01	95.9727	0.0310
8	101.706	34.1301	-0.9805	2.760674	3.5231e-01	95.9186	0.0311
9	75.656	34.0287	-1.4245	2.715250	9.1600e-01	95.9186	0.0466
10	50.786	33.9870	-1.6196	2.695000	2.8836e+00	95.9524	0.0441
11	29.780	33.9601	-1.7233	2.683568	8.0020e+00	95.9595	0.0378
12	29.721	33.9603	-1.7232	2.683585	8.0830e+00	95.9650	0.0339
13	29.658	33.9605	-1.7229	2.683622	8.1759e+00	95.9699	0.0311
14	20.076	33.9491	-1.7696	2.678529	1.3694e+01	95.9497	0.0397
15	14.971	33.9471	-1.7744	2.677759	1.8104e+01	95.9590	0.0472
16	10.313	33.9465	-1.7745	2.677488	2.4668e+01	95.9519	0.0325
17	5.170	33.9448	-1.7829	2.676444	3.6109e+01	95.9563	0.0572
18	5.181	33.9437	-1.7857	2.676134	3.6735e+01	95.9595	0.0444
19	0.475	33.9425	-1.7725	2.676917	7.0587e+01	95.6985	0.0633
20	0.500	33.9426	-1.7729	2.676898	6.9492e+01	95.7541	0.0505
21	0.527	33.9427	-1.7730	2.676895	6.9180e+01	95.8097	0.0520
22	0.552	33.9428	-1.7733	2.676880	6.9044e+01	95.9121	0.0439

Station:2 Cast#:60 Sep 02 2002 02:21:03 65 47.12 S 070 17.70 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	805.662	34.7233	1.1715	3.019968	6.0668e-02	95.7236	0.0317
2	806.204	34.7232	1.1715	3.019980	6.1038e-02	95.7285	0.0360
3	729.093	34.7248	1.2401	3.022655	6.1007e-02	95.7699	0.0071
4	601.490	34.7260	1.3151	3.023585	6.1214e-02	95.8336	0.0125
5	502.208	34.7253	1.4559	3.031317	6.1045e-02	95.7890	0.0146
6	403.796	34.7057	1.5531	3.033785	6.1020e-02	95.7083	0.0243
7	326.542	34.6875	1.6210	3.034761	6.0964e-02	95.8380	0.0325
8	253.399	34.6071	1.3835	3.004527	6.0982e-02	95.8140	0.0152
9	205.899	34.4784	0.8689	2.948007	6.0996e-02	95.8140	0.0294
10	152.652	34.2184	-0.5323	2.806996	6.0961e-02	95.7612	0.0309
11	128.208	34.0620	-1.4481	2.718116	6.0898e-02	95.7399	0.0475
12	101.438	34.0053	-1.7819	2.685272	6.0919e-02	95.7029	0.0468
13	76.097	33.9911	-1.7988	2.681700	6.1435e-02	95.6816	0.0298
14	50.399	33.9483	-1.8287	2.675007	6.3738e-02	95.7590	0.0259
15	30.224	33.9468	-1.8301	2.673856	7.6658e-02	95.7590	0.0315
16	20.424	33.9431	-1.8344	2.672788	1.0484e-01	95.7699	0.0421
17	14.911	33.9431	-1.8350	2.672493	1.5352e-01	95.7639	0.0258
18	9.905	33.9263	-1.8287	2.671571	2.4473e-01	95.3721	0.0411
19	4.421	33.9438	-1.8296	2.672504	5.2298e-01	95.6173	0.0455
20	4.435	33.9440	-1.8287	2.672589	5.3676e-01	95.3345	0.0426
21	0.577	33.9441	-1.8293	2.672372	1.4739e+00	95.7467	0.0408
22	0.556	33.9440	-1.8294	2.672353	1.5578e+00	95.7122	0.0483

Station:1 Cast#:62 Sep 02 2002 09:36:54 65 37.30 S 070 36.82 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	3217.946	34.7021	0.4090	3.049856	6.3652e-02	-0.0219	0.0465
2	3217.115	34.7021	0.4089	3.049819	6.3605e-02	-0.0219	0.0441
3	2999.879	34.7018	0.4074	3.041611	6.3857e-02	-0.0219	0.0049
4	2600.705	34.7020	0.4557	3.030598	6.3605e-02	-0.0219	0.0336
5	2199.155	34.7041	0.5718	3.025013	6.3241e-02	-0.0219	0.0063
6	1800.555	34.7092	0.7987	3.028841	6.2882e-02	-0.0219	0.0373
7	1401.315	34.7188	1.0927	3.038392	6.2882e-02	-0.0219	0.0042
8	1001.179	34.7270	1.4524	3.053113	6.2842e-02	-0.0219	0.0255
9	599.978	34.7117	1.8981	3.073068	6.3175e-02	-0.0219	0.0069
10	352.085	34.6466	2.0126	3.066748	6.3594e-02	-0.0219	0.0395
11	150.791	34.4458	1.6688	3.011815	6.4132e-02	-0.0219	0.0111
12	100.119	34.3694	1.3952	2.979899	6.4494e-02	-0.0219	0.0217
13	75.087	34.3105	1.0515	2.944668	6.5040e-02	-0.0219	0.0521
14	50.654	34.0140	-1.3764	2.717016	6.4372e-02	-0.0219	0.0477
15	30.657	33.9929	-1.6057	2.695650	6.3959e-02	-0.0219	0.0789
16	20.218	33.9915	-1.6252	2.693467	6.4117e-02	-0.0219	0.0735
17	15.329	33.9914	-1.6175	2.693860	6.4313e-02	-0.0219	0.0481

18	10.259	33.9892	-1.6429	2.691382	6.4335e-02	-0.0219	0.0594
19	5.056	33.9855	-1.6518	2.690149	6.5003e-02	-0.0219	0.0562
20	5.123	33.9891	-1.6573	2.689947	6.5036e-02	-0.0219	0.0532
21	-0.007	33.9808	-1.6315	2.691246	6.4858e-02	-0.0219	0.0550
22	-0.003	33.9810	-1.6297	2.691409	6.4858e-02	-0.0219	0.0543

Station:13 Cast#:63 Sep 03 2002 02:43:13 66 00.47 S 071 08.74 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	2934.528	34.7021	0.3761	3.036504	5.8742e-02	-0.0219	0.0424
2	2934.499	34.7022	0.3761	3.036504	5.8779e-02	-0.0219	0.0387
3	2500.147	34.7017	0.4134	3.023059	5.8587e-02	-0.0219	0.0073
4	2169.867	34.7033	0.5004	3.017655	5.8286e-02	-0.0219	0.0131
5	1619.957	34.7085	0.7544	3.017549	5.8286e-02	-0.0219	0.0187
6	1150.373	34.7168	1.0123	3.020648	5.8276e-02	-0.0219	0.0267
7	900.632	34.7242	1.2513	3.031095	5.8122e-02	-0.0219	0.0067
8	665.314	34.7266	1.5132	3.043658	5.7959e-02	-0.0219	0.0076
9	317.710	34.6361	1.5143	3.021042	5.7796e-02	-0.0219	0.0214
10	266.712	34.5675	1.1187	2.979165	5.7796e-02	-0.0219	0.0245
11	150.340	34.2689	-0.2367	2.835515	5.7634e-02	-0.0219	0.0280
12	99.641	34.0098	-1.5828	2.701907	5.7634e-02	-0.0219	0.0313
13	74.905	33.9404	-1.8069	2.677353	5.7634e-02	-0.0219	0.0240
14	50.039	33.9382	-1.8111	2.675714	5.7959e-02	-0.0219	0.0277
15	29.814	33.9379	-1.8158	2.674378	5.8145e-02	-0.0219	0.0208
16	20.351	33.9373	-1.8138	2.674061	5.8303e-02	-0.0219	0.0333
17	14.912	33.9378	-1.8168	2.673611	5.8406e-02	-0.0219	0.0343
18	10.495	33.9376	-1.8087	2.674049	5.8125e-02	-0.0219	0.0265
19	5.380	33.9378	-1.8041	2.674209	5.8122e-02	-0.0219	0.0237
20	5.454	33.9375	-1.8041	2.674193	5.8109e-02	-0.0219	0.0182
21	0.575	33.9373	-1.8040	2.673965	5.7959e-02	-0.0219	0.0487
22	0.601	33.9372	-1.8030	2.674046	5.7959e-02	-0.0219	0.0538

Station:12 Cast#:64 Sep 03 2002 12:36:27 66 05.51 S 070 52.34 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	895.480	34.7222	1.1939	3.025741	6.0905e-02	95.9590	0.0111
2	895.397	34.7222	1.1937	3.025725	6.1024e-02	95.9770	0.0137
3	800.434	34.7256	1.3997	3.039690	6.0989e-02	95.9988	0.0255
4	700.547	34.7243	1.4934	3.043314	6.0860e-02	96.0097	0.0119
5	599.732	34.7251	1.6016	3.048306	6.1073e-02	96.0577	0.0414
6	500.724	34.7162	1.6480	3.047221	6.1090e-02	96.0484	0.0087
7	400.499	34.7036	1.6750	3.044072	6.1122e-02	96.0539	0.0230
8	300.983	34.6615	1.5316	3.023787	6.1505e-02	96.0179	0.0483
9	270.927	34.6346	1.4408	3.012440	6.1800e-02	95.9928	0.0193
10	200.083	34.5393	1.0899	2.971453	7.0303e-02	95.9486	0.0095
11	150.151	34.3666	0.2581	2.884753	1.1154e-01	95.9056	0.0185
12	99.876	34.0602	-1.2778	2.730787	3.8852e-01	95.8451	0.0247
13	75.942	33.9456	-1.8045	2.677967	9.7775e-01	95.8146	0.0688
14	50.484	33.9452	-1.8072	2.676557	3.0770e+00	95.7802	0.0277
15	30.503	33.9453	-1.8074	2.675632	8.0207e+00	95.8080	0.0229
16	20.796	33.9453	-1.8077	2.675158	1.3583e+01	95.8048	0.0265
17	15.387	33.9456	-1.8090	2.674823	1.8727e+01	95.8135	0.0230
18	10.325	33.9461	-1.8126	2.674333	2.5926e+01	95.8031	0.0657
19	5.198	33.9464	-1.8152	2.673905	3.7704e+01	95.8058	0.0364
20	5.212	33.9461	-1.8151	2.673898	3.7866e+01	95.8058	0.0367
21	0.303	33.9460	-1.8006	2.674856	2.2689e+02	95.7837	0.0376
22	0.335	33.9459	-1.8011	2.674810	2.2690e+02	95.7778	0.0310

Station:11 Cast#:66 Sep 03 2002 21:23:59 66 13.61 S 070 23.70 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	446.723	34.7188	1.4094	3.024278	6.1127e-02	95.3683	0.0165
2	446.733	34.7187	1.4099	3.024319	6.0753e-02	95.3607	0.0126
3	405.393	34.7055	1.5222	3.031168	6.0947e-02	95.8031	0.0328
4	349.780	34.7030	1.5889	3.034245	6.1031e-02	96.0403	0.0465
5	290.176	34.6782	1.5245	3.023995	6.0978e-02	96.0413	0.0552
6	230.235	34.6492	1.5153	3.018193	6.1125e-02	96.0315	0.0377
7	178.582	34.5817	1.1914	2.982531	6.1403e-02	95.9388	0.0506
8	150.206	34.5081	0.8530	2.946392	6.1881e-02	95.9061	0.0146
9	99.895	34.2624	-0.3552	2.822745	6.6516e-02	95.8434	0.0333
10	75.138	34.0165	-1.5247	2.706070	7.7266e-02	95.7677	0.0219
11	49.906	33.9409	-1.7968	2.677071	1.2053e-01	95.7693	0.0677
12	37.925	33.9382	-1.8022	2.675893	1.8249e-01	95.8004	0.0256
13	37.933	33.9384	-1.8020	2.675917	1.8257e-01	95.7944	0.0322
14	37.934	33.9384	-1.8020	2.675917	1.8188e-01	95.8086	0.0299
15	30.035	33.9372	-1.8002	2.675618	2.5423e-01	95.8102	0.0309
16	20.280	33.9321	-1.7983	2.674962	4.3567e-01	95.8129	0.0345
17	15.050	33.9300	-1.8006	2.674381	5.8722e-01	95.8216	0.0622

18	10.116	33.9274	-1.8023	2.673832	7.9867e-01	95.8206	0.0406
19	4.931	33.9251	-1.8023	2.673432	1.2959e+00	95.8162	0.0252
20	4.931	33.9245	-1.8037	2.673273	1.2778e+00	95.8069	0.0250
21	0.786	33.9265	-1.8014	2.673412	3.1272e+00	95.7394	0.0227
22	0.785	33.9252	-1.7997	2.673455	3.0287e+00	95.7475	0.0216
Station:10 Cast#:68 Sep 04 2002 10:32:03 66 27.25 S 069 37.34 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	484.557	34.7207	1.2847	3.015317	6.0918e-02	95.1377	0.0341
2	484.555	34.7207	1.2847	3.015315	6.0954e-02	95.1448	0.0279
3	400.239	34.7048	1.4284	3.022740	6.0961e-02	95.7497	0.0269
4	349.911	34.6905	1.4173	3.018372	6.0954e-02	95.9366	0.0395
5	300.409	34.6744	1.4111	3.014326	6.0975e-02	95.9045	0.0299
6	250.280	34.6499	1.3743	3.006942	6.0954e-02	95.8691	0.0164
7	150.244	34.4158	0.3758	2.898518	6.1273e-02	95.7617	0.0398
8	100.334	34.1369	-0.8970	2.768068	6.4724e-02	95.7595	0.0475
9	75.103	33.9649	-1.7117	2.686934	7.6013e-02	95.7301	0.0203
10	50.356	33.9344	-1.8396	2.673116	1.2192e-01	95.7410	0.0308
11	50.352	33.9343	-1.8396	2.673108	1.2214e-01	95.7410	0.0369
12	30.458	33.9337	-1.8395	2.672161	2.5829e-01	95.7535	0.0189
13	20.573	33.9341	-1.8402	2.671679	4.4288e-01	95.7623	0.0231
14	15.291	33.9342	-1.8401	2.671448	6.3796e-01	95.7595	0.0602
15	10.387	33.9341	-1.8396	2.671256	9.7000e-01	95.7574	0.0308
16	4.838	33.9338	-1.8380	2.671123	1.7797e+00	95.7296	0.0218
17	4.840	33.9339	-1.8380	2.671124	1.8051e+00	95.7377	0.0265
18	0.409	33.9338	-1.8382	2.670900	7.9468e+00	95.7290	0.0368
19	0.412	33.9337	-1.8382	2.670894	7.7175e+00	95.7317	0.0310
Station:16 Cast#:74 Sep 04 2002 20:28:58 66 44.80 S 070 10.28 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	497.575	34.7198	1.0878	2.998783	6.0847e-02	94.7824	0.0216
2	497.570	34.7200	1.0874	2.998776	6.0933e-02	94.8331	0.0186
3	400.305	34.7052	1.3405	3.015141	6.0884e-02	95.8396	0.0387
4	300.277	34.6892	1.3882	3.013500	6.1010e-02	96.0457	0.0502
5	249.856	34.6755	1.4276	3.013548	6.1488e-02	96.0512	0.0224
6	199.858	34.6435	1.3256	2.999920	6.3897e-02	95.9628	0.0183
7	149.845	34.5593	1.0064	2.963526	7.6907e-02	95.8647	0.0270
8	99.419	34.2122	-0.4024	2.815011	1.6334e-01	95.8282	0.0524
9	74.799	33.9262	-1.6780	2.686916	3.5893e-01	95.7710	0.0205
10	50.001	33.9023	-1.7951	2.674450	1.0648e+00	95.7830	0.0244
11	29.826	33.9021	-1.7972	2.673346	3.0659e+00	95.8118	0.0236
12	20.142	33.9021	-1.7986	2.672784	5.0399e+00	95.8037	0.0266
13	14.878	33.9023	-1.7983	2.672578	6.7566e+00	95.7890	0.0407
14	9.404	33.9011	-1.7851	2.673323	9.3840e+00	95.5846	0.0611
15	5.100	33.9009	-1.7954	2.672272	1.3067e+01	95.7884	0.0161
16	5.101	33.9008	-1.7935	2.672424	1.3027e+01	95.7890	0.0184
17	0.581	33.9012	-1.7963	2.672014	1.0786e+02	95.8026	0.0272
18	0.580	33.9012	-1.7963	2.672012	1.0841e+02	95.7584	0.0305
Station:15 Cast#:76 Sep 05 2002 11:27:34 66 30.85 S 070 57.61 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	523.492	34.7184	1.1871	3.008431	6.0886e-02	95.3563	0.0153
2	523.344	34.7184	1.1902	3.008692	6.0936e-02	95.3438	0.0233
3	450.021	34.7087	1.3499	3.018479	6.0936e-02	95.5497	0.0158
4	285.091	34.7129	1.6706	3.039201	6.0972e-02	95.7971	0.0426
5	249.303	34.6692	1.4072	3.011255	6.0985e-02	95.6533	0.0367
6	150.612	34.4479	0.5039	2.911912	6.2236e-02	95.5072	0.0356
7	100.271	34.0027	-1.3531	2.720390	7.2690e-02	95.4996	0.0322
8	75.511	33.9299	-1.6977	2.685593	1.0262e-01	95.4958	0.0152
9	50.075	33.8961	-1.8231	2.671717	2.4215e-01	95.4702	0.0462
10	30.783	33.8976	-1.8263	2.670680	8.8568e-01	95.4893	0.0323
11	20.282	33.8967	-1.8258	2.670173	2.6443e+00	95.4898	0.0231
12	15.042	33.8969	-1.8258	2.669948	4.6346e+00	95.4898	0.0510
13	10.024	33.8970	-1.8262	2.669686	7.4639e+00	95.4942	0.0279
14	5.109	33.8970	-1.8266	2.669435	1.1796e+01	95.4996	0.0235
15	5.124	33.8969	-1.8265	2.669431	1.1856e+01	95.4985	0.0209
16	0.451	33.8970	-1.8253	2.669326	9.6175e+01	95.4912	0.0213
17	0.443	33.8971	-1.8250	2.669364	9.6688e+01	95.4836	0.0252
Station:14 Cast#:81 Sep 05 2002 19:01:27 66 23.53 S 071 21.36 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	866.580	34.7220	1.1626	3.021764	6.0868e-02	95.7617	0.0071
2	865.899	34.7219	1.1629	3.021756	6.0954e-02	95.7628	0.0098
3	778.857	34.7240	1.2450	3.025206	6.1062e-02	95.7906	0.0185
4	704.439	34.7259	1.3590	3.031952	6.0526e-02	95.7802	0.0372
5	616.803	34.7240	1.4368	3.034669	6.0915e-02	95.6931	0.0099

6	561.006	34.7244	1.5122	3.038754	6.0957e-02	95.7628	0.0137
7	434.517	34.7204	1.7107	3.050036	6.1108e-02	95.8500	0.0478
8	337.243	34.7062	1.7883	3.051279	6.1252e-02	95.8816	0.0210
9	271.863	34.6779	1.7093	3.039203	6.2821e-02	95.8533	0.0526
10	200.681	34.4760	0.6240	2.926614	8.0198e-02	95.6489	0.0339
11	150.678	34.1732	-0.8972	2.773026	1.7514e-01	95.7045	0.0141
12	99.995	34.0370	-1.7449	2.690521	7.4233e-01	95.6876	0.0236
13	74.582	34.0297	-1.7421	2.689068	1.8369e+00	95.6860	0.0207
14	49.879	34.0047	-1.7528	2.685267	4.6503e+00	95.6484	0.0560
15	30.009	33.9517	-1.8336	2.673915	1.0898e+01	95.6075	0.0619
16	19.628	33.9519	-1.8348	2.673347	2.0239e+01	95.6010	0.0313
17	15.287	33.9514	-1.8351	2.673090	2.6700e+01	95.6026	0.0524
18	10.635	33.9510	-1.8343	2.672918	3.6392e+01	95.5955	0.0314
19	5.475	33.9510	-1.8327	2.672813	5.5851e+01	95.5803	0.0211
20	5.427	33.9510	-1.8328	2.672802	5.6028e+01	95.5737	0.0199
21	0.674	33.9505	-1.8248	2.673202	2.9341e+02	95.5645	0.0413
22	0.683	33.9490	-1.8205	2.673446	3.7071e+02	95.5655	0.0536

Station:23 Cast#:83 Sep 06 2002 07:41:54 66 41.06 S 071 59.66 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	1756.961	34.7052	0.5823	3.008144	2.3509e-01	95.8603	0.0180
2	1756.701	34.7054	0.5814	3.008076	2.3558e-01	95.8549	0.0164
3	1500.056	34.7123	0.8687	3.022700	2.1878e-01	95.8958	0.0498
4	1299.667	34.7171	1.0070	3.026568	2.0996e-01	95.8734	0.0062
5	1100.290	34.7219	1.1632	3.031935	2.0586e-01	95.8718	0.0159
6	899.653	34.7256	1.3322	3.038175	2.0803e-01	95.8636	0.0138
7	700.108	34.7272	1.5272	3.046459	1.9460e-01	95.8582	0.0142
8	499.590	34.7213	1.7535	3.056757	1.7525e-01	95.8936	0.0142
9	250.309	34.6577	1.8988	3.053109	3.3695e-01	95.9203	0.0221
10	200.077	34.6034	1.6755	3.027103	3.1972e-01	95.8424	0.0243
11	150.110	34.4167	0.6007	2.917759	2.2203e-01	95.7704	0.0236
12	99.722	34.0904	-1.4644	2.717520	2.5392e-01	95.7699	0.0212
13	75.137	34.0353	-1.7825	2.686168	3.7565e-01	95.7802	0.0437
14	50.273	34.0299	-1.8176	2.681752	4.0416e-01	95.7857	0.0356
15	30.437	34.0298	-1.8215	2.680522	9.5141e-01	95.7841	0.0228
16	20.510	34.0301	-1.8202	2.680190	9.0094e-01	95.7879	0.0391
17	15.310	34.0301	-1.8186	2.680087	2.0959e+00	95.7862	0.0326
18	10.822	34.0303	-1.8192	2.679840	4.2260e+00	95.7895	0.0292
19	5.682	34.0306	-1.8194	2.679609	2.6038e+00	95.7699	0.0177
20	5.651	34.0306	-1.8188	2.679663	2.6969e+00	95.7813	0.0226
21	0.796	34.0305	-1.8174	2.679543	3.0923e+00	95.7775	0.0291
22	0.778	34.0306	-1.8175	2.679536	2.8357e+00	95.7742	0.0272

Station:22 Cast#:85 Sep 06 2002 16:36:42 66 49.26 S 071 25.71 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	460.751	34.7176	1.2958	3.014973	6.1067e-02	94.5754	0.0139
2	460.644	34.7176	1.2958	3.014963	6.0723e-02	94.5476	0.0128
3	379.958	34.7073	1.4464	3.023577	6.0992e-02	95.6157	0.0187
4	320.044	34.6976	1.4810	3.023108	6.1136e-02	95.6805	0.0165
5	289.526	34.7009	1.5726	3.029936	6.1354e-02	95.6805	0.0174
6	249.681	34.6851	1.5545	3.025299	6.2329e-02	95.6549	0.0440
7	224.993	34.6703	1.5493	3.022560	6.3685e-02	95.6260	0.0162
8	180.637	34.5848	1.0491	2.970585	7.3083e-02	95.5045	0.0118
9	149.863	34.5086	0.7521	2.937763	9.6388e-02	95.4925	0.0267
10	99.766	34.2341	-0.2851	2.826520	2.9637e-01	95.4647	0.0527
11	75.523	34.0035	-1.2130	2.730914	6.9242e-01	95.4713	0.0201
12	49.460	33.8936	-1.7663	2.676169	2.3229e+00	95.4680	0.0238
13	30.311	33.8805	-1.8123	2.670576	7.5886e+00	95.4691	0.0259
14	20.183	33.8803	-1.8118	2.670140	1.6579e+01	95.4816	0.0660
15	14.658	33.8804	-1.8117	2.669899	2.5425e+01	95.4789	0.0332
16	9.922	33.8805	-1.8126	2.669618	3.4903e+01	95.4887	0.0354
17	4.850	33.8811	-1.8111	2.669556	5.3836e+01	95.4822	0.0376
18	4.826	33.8812	-1.8122	2.669469	5.4240e+01	95.4822	0.0285
19	0.729	33.8816	-1.8112	2.669394	9.2080e+01	95.4713	0.0321
20	0.682	33.8817	-1.8107	2.669432	9.4293e+01	95.4778	0.0339

Station:21 Cast#:87 Sep 07 2002 06:51:22 67 02.36 S 070 42.12 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	484.669	34.7126	1.3078	3.016692	6.0679e-02	95.2043	0.0598
2	484.670	34.7127	1.3079	3.016702	6.1010e-02	95.2168	0.0568
3	400.326	34.7050	1.3558	3.016454	6.1048e-02	95.6620	0.0387
4	300.581	34.6886	1.3702	3.011904	6.0771e-02	95.9393	0.0218
5	200.506	34.6386	1.2744	2.995145	6.1083e-02	95.8380	0.0134
6	150.401	34.5486	0.9387	2.956901	6.1133e-02	95.7851	0.0182
7	100.266	34.3608	0.2264	2.879345	6.1059e-02	95.7492	0.0417

8	75.318	33.9246	-1.6307	2.690715	6.1694e-02	95.7012	0.0572
9	50.242	33.8988	-1.7816	2.675318	6.5086e-02	95.7192	0.0450
10	30.357	33.8955	-1.7703	2.675099	8.3346e-02	95.7377	0.0327
11	20.047	33.8956	-1.7702	2.674641	1.2676e-01	95.7350	0.0214
12	15.360	33.8953	-1.7729	2.674185	1.6686e-01	95.7606	0.0384
13	10.312	33.8928	-1.7764	2.673490	2.5463e-01	95.7394	0.0595
14	5.283	33.8892	-1.7776	2.672896	5.7712e-01	95.7399	0.0248
15	5.266	33.8900	-1.7793	2.672814	5.4016e-01	95.7252	0.0233
16	0.563	33.8910	-1.7732	2.673173	1.5254e+00	95.6909	0.0212
17	0.584	33.8907	-1.7744	2.673054	1.5194e+00	95.6549	0.0262

Station:20A Cast#:91 Sep 07 2002 15:15:26 67 12.40 S 070 16.55 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	641.259	34.7194	1.1845	3.013529	6.0371e-02	94.9751	0.0446
2	641.255	34.7194	1.1844	3.013518	6.0875e-02	94.9561	0.0467
3	600.519	34.7197	1.2676	3.018940	6.0894e-02	95.3013	0.0404
4	500.307	34.7102	1.3328	3.019370	6.0901e-02	95.7040	0.0203
5	380.161	34.6926	1.3624	3.015151	6.0992e-02	95.9524	0.0179
6	264.261	34.6715	1.5221	3.022084	6.3209e-02	95.9841	0.0142
7	180.599	34.5360	0.8939	2.953459	9.6943e-02	95.8533	0.0189
8	150.318	34.4183	0.3802	2.899088	1.6480e-01	95.8445	0.0212
9	99.901	34.0113	-1.3582	2.720579	7.5617e-01	95.8129	0.0531
10	90.598	33.9425	-1.8053	2.678342	1.0985e+00	95.8325	0.0577
11	75.191	33.9393	-1.8108	2.676963	2.0800e+00	95.8625	0.0316
12	50.135	33.9348	-1.8083	2.675702	6.3306e+00	95.8718	0.0295
13	30.033	33.9238	-1.8114	2.673741	1.7590e+01	95.8658	0.0189
14	19.989	33.9249	-1.8124	2.673275	3.2559e+01	95.8669	0.0289
15	14.892	33.9251	-1.8074	2.673465	4.5362e+01	95.8652	0.0242
16	10.175	33.9250	-1.8084	2.673159	6.3667e+01	95.8592	0.0270
17	5.017	33.9241	-1.8058	2.673075	9.4455e+01	95.8380	0.0295
18	5.024	33.9239	-1.8052	2.673113	9.4537e+01	95.8462	0.0336
19	0.987	33.9238	-1.8061	2.672844	1.8798e+02	95.8328	0.0218
20	0.986	33.9239	-1.8041	2.673015	1.9059e+02	95.8273	0.0243

Station:19 Cast#:93 Sep 07 2002 22:41:03 67 28.37 S 069 30.95 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	384.082	34.6911	1.3902	3.017621	6.1048e-02	95.0129	0.0419
2	384.071	34.6912	1.3905	3.017646	6.0979e-02	95.0118	0.0435
3	325.000	34.6815	1.3756	3.012928	6.0978e-02	95.1530	0.0182
4	299.974	34.6788	1.3688	3.010987	6.1014e-02	95.2271	0.0189
5	250.547	34.6448	1.2921	2.999436	6.1154e-02	95.4669	0.0186
6	200.254	34.5503	0.9786	2.962743	6.0992e-02	95.5552	0.0225
7	174.965	34.4726	0.6054	2.923590	6.1073e-02	94.7857	0.0401
8	149.259	34.3886	0.2417	2.884994	6.0712e-02	94.9023	0.0500
9	100.351	34.0504	-1.6140	2.702294	6.1228e-02	95.5476	0.0316
10	75.045	34.0272	-1.7737	2.686311	6.1665e-02	95.5563	0.0740
11	50.095	34.0261	-1.7863	2.684049	6.4170e-02	95.5764	0.0420
12	30.809	34.0266	-1.7919	2.682737	7.2893e-02	95.6026	0.0180
13	20.616	34.0265	-1.7948	2.682027	1.0273e-01	95.6053	0.0258
14	14.821	34.0268	-1.7945	2.681800	1.5699e-01	95.6015	0.0496
15	10.287	34.0270	-1.7918	2.681835	2.4435e-01	95.4843	0.0259
16	4.824	34.0270	-1.8012	2.680811	7.8120e-01	94.5743	0.0625
17	4.789	34.0267	-1.7988	2.680976	7.4151e-01	95.1258	0.0715
18	0.700	34.0265	-1.7889	2.681597	1.7614e+00	95.5568	0.0461
19	0.699	34.0266	-1.7892	2.681578	1.6766e+00	95.5721	0.0640

Station:18 Cast#:95 Sep 08 2002 15:09:31 67 02.85 S 069 08.63 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	419.409	34.6995	1.4069	3.021317	6.1473e-02	94.9263	0.0549
2	419.337	34.6995	1.4069	3.021317	6.0768e-02	94.9148	0.0597
3	250.360	34.6737	1.3848	3.009718	6.4850e-02	95.5933	0.0168
4	250.194	34.6738	1.3849	3.009728	6.4735e-02	95.5748	0.0145
5	149.736	34.5375	0.9381	2.955955	1.8874e-01	95.5879	0.0375
6	149.608	34.5385	0.9393	2.956135	1.8929e-01	95.6031	0.0451
7	99.889	34.2983	-0.2032	2.838241	9.4879e-01	95.3988	0.0287
8	99.998	34.2951	-0.1955	2.838657	9.4607e-01	95.4026	0.0347
9	75.480	34.0596	-1.7705	2.688916	2.5923e+00	95.2860	0.0267
10	75.488	34.0609	-1.7767	2.688496	2.5945e+00	95.2822	0.0335
11	50.203	34.0512	-1.7921	2.685379	8.9332e+00	95.3519	0.0423
12	30.323	34.0450	-1.7981	2.683526	2.9065e+01	95.4380	0.0302
13	20.237	34.0453	-1.7973	2.683141	5.3562e+01	95.4489	0.0340
14	15.471	34.0446	-1.7940	2.683145	7.4455e+01	95.4604	0.0288
15	10.472	34.0446	-1.7969	2.682688	1.0572e+02	95.4691	0.0337
16	5.386	34.0445	-1.7951	2.682587	1.6322e+02	95.4408	0.0243
17	5.394	34.0445	-1.7950	2.682594	1.6150e+02	95.4489	0.0225

18 0.624 34.0447 -1.7945 2.682439 3.8267e+02 95.4424 0.0384
 19 0.615 34.0444 -1.7943 2.682435 3.7325e+02 95.4452 0.0406
 Station:17 Cast#:97 Sep 09 2002 03:44:11 66 59.96 S 069 30.17 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	496.009	34.7200	1.2977	3.016896	6.0879e-02	95.1792	0.0235
2	495.920	34.7199	1.2978	3.016896	6.0949e-02	95.1923	0.0236
3	455.935	34.7176	1.3226	3.017075	6.0992e-02	95.4375	0.0207
4	422.176	34.7168	1.3556	3.018350	6.0913e-02	95.5655	0.0238
5	391.570	34.7113	1.3992	3.020323	6.0891e-02	95.7067	0.0207
6	343.554	34.7028	1.4460	3.021543	6.1091e-02	95.6533	0.0401
7	307.301	34.6989	1.4919	3.023575	6.1020e-02	95.7612	0.0464
8	250.494	34.6462	1.2808	2.998573	6.0898e-02	95.7568	0.0155
9	200.340	34.5805	1.0666	2.972669	6.1047e-02	95.7247	0.0239
10	176.011	34.5193	0.8137	2.945070	6.0964e-02	95.6969	0.0480
11	150.638	34.4110	0.3340	2.894613	6.1233e-02	95.7350	0.0290
12	100.889	34.1389	-0.9170	2.766583	6.1150e-02	95.7127	0.0264
13	74.975	34.0211	-1.6828	2.693354	6.1577e-02	95.5770	0.0249
14	50.643	33.9934	-1.8230	2.678712	6.4424e-02	95.6260	0.0575
15	30.428	33.9802	-1.8251	2.676667	7.7293e-02	95.7176	0.0223
16	20.396	33.9785	-1.8292	2.675752	1.0637e-01	95.7268	0.0589
17	15.342	33.9788	-1.8375	2.674864	1.5236e-01	95.7236	0.0246
18	10.456	33.9788	-1.8389	2.674519	2.4174e-01	95.7268	0.0270
19	4.793	33.9787	-1.8386	2.674276	5.6081e-01	95.7050	0.0395
20	4.811	33.9790	-1.8394	2.674227	5.9854e-01	95.5426	0.0596
21	0.525	33.9787	-1.8331	2.674531	2.4612e+00	95.5955	0.0255
22	0.538	33.9790	-1.8339	2.674491	2.4007e+00	95.6249	0.0140

Station:9 Cast#:99 Sep 09 2002 13:06:35 66 40.78 S 068 54.31 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	311.387	34.6921	1.4228	3.017236	6.0841e-02	92.4897	0.0422
2	311.374	34.6922	1.4228	3.017236	6.0831e-02	92.4729	0.0430
3	240.437	34.6723	1.3992	3.010401	6.1934e-02	93.0304	0.0214
4	150.206	34.4845	0.6842	2.930108	8.9592e-02	93.0925	0.0198
5	100.124	34.2593	-0.2905	2.827975	2.9111e-01	93.4625	0.0219
6	75.181	34.0023	-1.7147	2.689388	8.0571e-01	93.7487	0.0217
7	50.040	33.9901	-1.8119	2.679366	2.9235e+00	93.9394	0.0375
8	30.303	33.9904	-1.8170	2.678059	9.8017e+00	94.0821	0.0642
9	19.767	33.9906	-1.8183	2.677486	1.9863e+01	94.1350	0.0267
10	14.831	33.9905	-1.8192	2.677172	2.7255e+01	94.1726	0.0274
11	10.310	33.9907	-1.8196	2.676948	3.6833e+01	94.2102	0.0358
12	4.767	33.9904	-1.8191	2.676719	5.8013e+01	94.2396	0.0616
13	4.763	33.9904	-1.8187	2.676742	5.8070e+01	94.2402	0.0564
14	0.266	33.9900	-1.8127	2.677003	2.1766e+02	94.0283	0.0155
15	0.230	33.9901	-1.8121	2.677064	1.4854e+02	94.2273	0.0139

Station:8 Cast#:101 Sep 09 2002 18:37:45 66 48.76 S 068 26.24 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	65.804	34.1260	-1.5313	2.713002	1.7764e+00	93.2947	0.0298
2	65.890	34.1260	-1.5332	2.712846	1.7517e+00	93.3017	0.0427
3	65.886	34.1256	-1.5343	2.712730	1.7619e+00	93.3050	0.0329
4	65.890	34.1257	-1.5340	2.712759	1.7502e+00	93.2955	0.0334
5	65.899	34.1256	-1.5339	2.712756	1.7527e+00	93.2952	0.0328
6	65.898	34.1257	-1.5354	2.712638	1.7490e+00	93.2916	0.0300
7	65.876	34.1255	-1.5347	2.712686	1.7515e+00	93.2669	0.0307
8	66.021	34.1260	-1.5330	2.712876	1.7378e+00	93.3263	0.0402
9	50.064	34.1058	-1.6027	2.704914	3.2905e+00	93.7906	0.0366
10	29.824	34.0732	-1.7382	2.690461	7.8409e+00	94.1720	0.0265
11	20.527	34.0682	-1.7522	2.688519	1.2497e+01	94.2816	0.0278
12	15.212	34.0668	-1.7557	2.687884	1.6661e+01	94.3154	0.0440
13	10.309	34.0643	-1.7624	2.686925	2.2854e+01	94.3252	0.0285
14	5.456	34.0588	-1.7782	2.685009	3.4839e+01	94.2952	0.0234
15	5.499	34.0589	-1.7781	2.685028	3.4612e+01	94.1971	0.0315
16	0.726	34.0599	-1.7532	2.686930	6.6246e+01	94.3383	0.0304
17	0.806	34.0605	-1.7687	2.685699	6.5473e+01	94.3257	0.0650

Station:5 Cast#:103 Sep 10 2002 06:31:29 66 25.61 S 068 24.61 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	650.011	34.7215	1.2872	3.022972	6.0833e-02	94.7187	0.0124
2	650.026	34.7215	1.2871	3.022964	6.0973e-02	94.7154	0.0090
3	550.641	34.7193	1.3249	3.021650	6.0506e-02	94.8729	0.0169
4	451.582	34.7097	1.3868	3.021823	6.0923e-02	95.1464	0.0556
5	351.882	34.6875	1.4258	3.018967	6.1041e-02	95.4048	0.0311
6	250.649	34.6389	1.3727	3.005957	6.0885e-02	95.4157	0.0411
7	150.711	34.3979	0.3717	2.896823	6.1161e-02	95.1421	0.0130
8	100.180	33.9940	-1.7994	2.682956	6.1153e-02	95.3062	0.0608

9	75.712	33.9881	-1.8243	2.679370	6.1944e-02	95.4124	0.0514
10	50.624	33.9862	-1.8287	2.677733	6.4918e-02	95.4408	0.0565
11	30.089	33.9881	-1.8355	2.676361	8.3992e-02	95.4391	0.0231
12	20.046	33.9879	-1.8361	2.675846	1.1622e-01	95.4375	0.0483
13	15.369	33.9877	-1.8353	2.675676	1.5591e-01	95.4211	0.0580
14	10.170	33.9875	-1.8303	2.675834	3.1381e-01	95.4261	0.0595
15	5.424	33.9874	-1.8313	2.675526	4.9321e-01	95.4244	0.0402
16	5.424	33.9874	-1.8312	2.675532	5.8747e-01	95.3923	0.0664
17	0.816	33.9840	-1.8310	2.675098	1.4312e+00	95.3449	0.0372
18	0.823	33.9869	-1.8308	2.675323	1.3525e+00	95.1309	0.0509

Station:RI2 Cast#:107 Sep 11 2002 16:10:28 65 09.86 S 065 35.39 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	730.288	34.6917	1.4358	3.037051	6.1000e-02	94.6092	0.0271
2	730.334	34.6916	1.4354	3.037009	6.0994e-02	94.6669	0.0320
3	620.508	34.6871	1.4297	3.031314	6.0964e-02	94.8680	0.0275
4	500.537	34.6791	1.4035	3.023054	6.0927e-02	94.9590	0.0175
5	433.823	34.6722	1.3748	3.017039	6.1094e-02	95.0532	0.0191
6	386.807	34.6540	1.2887	3.006039	6.1104e-02	95.0581	0.0128
7	352.729	34.6443	1.2467	3.000103	6.1083e-02	95.0930	0.0194
8	299.934	34.6236	1.1527	2.987982	6.1055e-02	95.0451	0.0208
9	250.342	34.5975	1.0300	2.973113	6.1931e-02	95.0614	0.0252
10	199.970	34.5117	0.6506	2.931594	6.5373e-02	95.0636	0.0427
11	149.725	34.3436	-0.6173	2.809015	8.7727e-02	94.7241	0.0384
12	99.718	34.2502	-0.8438	2.780828	2.6887e-01	94.9050	0.0214
13	75.510	34.2164	-0.8314	2.778265	7.0959e-01	95.0718	0.0443
14	50.028	34.0874	-1.7832	2.688690	2.7343e+00	94.9225	0.0471
15	29.920	34.0803	-1.8087	2.685161	1.0616e+01	94.9225	0.0521
16	20.140	34.0667	-1.8141	2.683289	2.5069e+01	94.9366	0.0995
17	15.470	34.0512	-1.8176	2.681679	4.1073e+01	94.9699	0.0453
18	10.372	34.0481	-1.8200	2.681025	6.9777e+01	94.9693	0.0537
19	5.382	34.0482	-1.8071	2.681862	1.0908e+02	94.9775	0.0507
20	5.396	34.0491	-1.8054	2.682074	1.0868e+02	94.9797	0.0611
21	0.930	34.0492	-1.8115	2.681363	2.0622e+02	94.9426	0.0389
22	0.931	34.0483	-1.8095	2.681471	2.0690e+02	94.9573	0.0483

Station:RI3 Cast#:111 Sep 11 2002 22:14:16 65 08.86 S 065 32.17 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	533.001	34.6899	1.4234	3.027080	6.0836e-02	95.3051	0.0287
2	533.004	34.6898	1.4233	3.027072	6.0830e-02	95.3040	0.0269
3	499.513	34.6893	1.4297	3.026091	6.1140e-02	95.3836	0.0069
4	449.826	34.6861	1.4209	3.022846	6.1085e-02	95.4653	0.0221
5	399.895	34.6719	1.3765	3.015628	6.1094e-02	95.5094	0.0142
6	349.495	34.6594	1.3324	3.008554	6.1083e-02	95.5508	0.0167
7	299.803	34.6308	1.2039	2.992954	6.1132e-02	95.5601	0.0291
8	249.650	34.5979	1.0494	2.974787	6.1055e-02	95.5290	0.0147
9	209.761	34.5603	0.9584	2.962216	6.0986e-02	95.5361	0.0426
10	180.158	34.4975	0.6750	2.931693	6.0912e-02	95.5334	0.0218
11	149.635	34.4270	0.3580	2.897833	6.0986e-02	95.4604	0.0191
12	99.898	34.2853	-1.1284	2.759617	6.0958e-02	94.8990	0.0563
13	73.936	34.1641	-1.6744	2.704278	6.1452e-02	94.5481	0.0853
14	50.005	34.1119	-1.7031	2.697062	6.3908e-02	94.7699	0.0730
15	29.582	34.0669	-1.8120	2.683915	8.5389e-02	94.8865	0.0820
16	19.927	34.0511	-1.8239	2.681355	1.1871e-01	94.9677	0.0771
17	14.733	34.0501	-1.8209	2.681298	1.2577e-01	95.0614	0.0688
18	10.545	34.0483	-1.8240	2.680716	1.6755e-01	95.0729	0.0725
19	5.484	34.0468	-1.8237	2.680400	3.3406e-01	95.1050	0.0675
20	5.480	34.0458	-1.8243	2.680284	3.1591e-01	95.1072	0.0591
21	1.164	34.0440	-1.8203	2.680278	1.3793e+00	94.7579	0.0677
22	1.212	34.0464	-1.8205	2.680438	1.3367e+00	94.6266	0.0771

Station:RI4 Cast#:114 Sep 12 2002 03:25:07 65 07.75 S 065 30.56 W

Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	500.796	34.6901	1.4297	3.026209	6.1054e-02	95.3154	0.0156
2	500.791	34.6902	1.4295	3.026196	6.0723e-02	95.3171	0.0230
3	449.781	34.6878	1.4253	3.023361	6.1119e-02	95.3934	0.0321
4	399.827	34.6821	1.4087	3.019220	6.1084e-02	95.4359	0.0223
5	349.364	34.6667	1.3532	3.010926	6.1034e-02	95.5241	0.0264
6	299.821	34.6424	1.2281	2.995959	6.1104e-02	95.4555	0.0341
7	249.686	34.6111	1.0575	2.976515	6.0989e-02	95.4898	0.0266
8	199.715	34.5421	0.7427	2.941823	6.1034e-02	95.4517	0.0057
9	174.571	34.5215	0.7182	2.936983	6.0913e-02	95.4293	0.0143
10	148.763	34.4756	0.6130	2.923270	6.0947e-02	95.4784	0.0426
11	124.585	34.4133	0.2661	2.887821	6.1042e-02	95.4451	0.0217
12	100.616	34.3325	-0.4566	2.819467	6.1007e-02	95.1399	0.0232

13	74.665	34.2173	-1.4455	2.727117	6.1348e-02	94.7535	0.0892
14	49.712	34.1642	-1.7694	2.695323	6.4814e-02	94.6495	0.0759
15	29.941	34.1138	-1.7620	2.691407	8.4404e-02	94.7219	0.0735
16	19.989	34.0696	-1.8099	2.683833	1.2562e-01	94.8974	0.0612
17	15.116	34.0621	-1.8160	2.682571	1.7004e-01	94.9802	0.0756
18	10.106	34.0560	-1.8178	2.681762	2.6130e-01	95.0451	0.0761
19	4.754	34.0556	-1.8196	2.681333	6.0025e-01	94.9988	0.0816
20	4.769	34.0562	-1.8184	2.681480	5.7304e-01	94.9895	0.0761
21	0.883	34.0611	-1.8145	2.681974	1.4609e+00	94.9634	0.0698
22	0.895	34.0601	-1.8153	2.681836	1.4807e+00	94.9495	0.0733
Station:RI5 Cast#:116 Sep 12 2002 07:05:51 65 07.40 S 065 30.11 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	501.519	34.6898	1.4282	3.026087	6.0827e-02	94.5737	0.0222
2	501.527	34.6897	1.4283	3.026088	6.0717e-02	94.5176	0.0267
3	450.078	34.6851	1.4213	3.022813	6.1104e-02	95.2920	0.0363
4	400.007	34.6739	1.3845	3.016489	6.0975e-02	95.3225	0.0242
5	349.777	34.6570	1.3120	3.006614	6.0999e-02	95.4130	0.0307
6	299.891	34.6260	1.1584	2.988660	6.1073e-02	95.3857	0.0276
7	250.295	34.5918	0.9589	2.966537	6.0996e-02	95.3836	0.0277
8	200.283	34.5240	0.6016	2.928359	6.1066e-02	95.3242	0.0313
9	175.512	34.4989	0.6123	2.926223	6.1031e-02	95.3628	0.0248
10	149.801	34.4691	0.5224	2.915072	6.0832e-02	95.3274	0.0238
11	125.200	34.4113	0.2796	2.888842	6.1189e-02	95.3836	0.0156
12	99.954	34.3552	-0.1261	2.849035	6.1017e-02	95.1939	0.0323
13	75.138	34.1818	-1.7465	2.699647	6.1481e-02	94.6560	0.0858
14	49.997	34.1506	-1.7894	2.692707	6.4598e-02	94.6909	0.0919
15	30.084	34.1048	-1.7865	2.688753	8.2618e-02	94.6451	0.0800
16	20.418	34.0720	-1.8060	2.684351	1.1714e-01	94.8734	0.0808
17	15.352	34.0530	-1.8262	2.681096	1.6341e-01	94.9573	0.0656
18	10.218	34.0527	-1.8316	2.680392	2.5878e-01	94.9802	0.0665
19	5.355	34.0541	-1.8104	2.682013	5.3914e-01	94.9808	0.0722
20	5.354	34.0553	-1.8096	2.682163	5.4590e-01	94.9617	0.0775
21	0.794	34.0621	-1.8121	2.682241	1.6001e+00	94.9439	0.0808
22	0.790	34.0619	-1.8120	2.682228	1.6030e+00	94.9450	0.0950
Station:GS1 Cast#:118 Sep 13 2002 20:18:59 64 43.00 S 063 01.64 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	324.100	34.4989	-0.2512	2.859444	6.0464e-02	93.8091	0.0410
2	98.238	34.4117	-0.3929	2.830636	1.5492e-01	94.2767	0.0387
3	38.922	34.3684	-0.5865	2.808360	1.1884e+00	93.6130	0.0768
4	2.915	34.3618	-0.5991	2.805155	1.1465e+01	93.4423	0.0753
Station:GS2 Cast#:120 Sep 13 2002 22:34:30 64 34.69 S 062 39.69 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	738.451	34.5346	-0.5427	2.855949	6.0069e-02	93.4429	0.0173
2	736.633	34.5346	-0.5426	2.855876	6.0762e-02	93.3579	0.0151
3	300.500	34.4947	-0.4463	2.841536	6.0748e-02	94.2244	0.0287
4	221.221	34.4587	-0.3095	2.846811	6.0793e-02	94.0173	0.0321
5	4.561	34.3763	-0.5302	2.812100	5.5078e-01	93.3791	0.0766
Station:GS3 Cast#:123 Sep 14 2002 01:26:30 64 28.09 S 062 14.02 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	642.514	34.5333	-0.5927	2.847392	6.0139e-02	94.0821	0.0306
2	270.100	34.5341	0.1992	2.897939	6.0867e-02	94.1829	0.0312
3	1.538	34.3585	-0.7697	2.790497	1.5458e+00	93.2549	0.1024
Station:GS4 Cast#:127 Sep 14 2002 04:52:30 64 18.60 S 061 56.60 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	1049.542	34.5368	-0.7337	2.853550	2.1070e-01	94.0576	0.0195
2	470.017	34.5283	-0.0678	2.883794	1.9898e-01	94.7715	0.0219
3	69.857	34.3492	-1.0256	2.771506	5.8978e-01	93.5454	0.0946
4	0.737	34.3418	-1.0698	2.764078	1.1489e+00	93.4429	0.0893
Station:GS5 Cast#:129 Sep 14 2002 08:04:24 64 09.99 S 061 52.04 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	695.595	34.5339	-0.7805	2.833938	2.6268e-01	94.2641	0.0161
2	240.152	34.4875	-0.2845	2.851953	2.7529e-01	94.4310	0.0292
3	0.517	34.3248	-1.2957	2.743964	8.6569e-01	93.2418	0.1052
Station:GS6 Cast#:130 Sep 14 2002 10:41:25 64 00.38 S 061 45.24 W							
Bottle	Depth	Salinity	Temp	Oxygen	PAR	Trans	Fluor
1	1160.991	34.5362	-0.9460	2.840407	9.0755e-01	93.8974	0.0209
2	500.097	34.5435	-0.3999	2.858110	1.2911e+00	94.5993	0.0275
3	311.406	34.4894	-0.4268	2.843285	1.1594e+00	94.9110	0.0203
4	0.370	34.3141	-1.5663	2.720640	6.8436e+00	93.4614	0.0780

APPENDIX 4. Summary of the XBT cast details. Event number, probe type, cast number, station number, drop latitude and longitude, water depth (m), and XBT depth (m) for the XBT drops made during NBP02-04. The status of each drop is given in the final column.

Event Number	Probe Type	Cast Number	Consec. Station no.	Latitude (° S) Deg. Min.	Longitude (° W) Deg. Min.	Water Depth (m)	Cast Depth (m)	Comments
nbp21402.005	XBT-7	1	DP1	58 46.45	63 45.67	3876	760	good one
nbp21402.006	XBT-7	2	DP2	58 56.55	63 42.39	3970	760	good one
nbp21402.007	XBT-7	3	DP3	59 6.36	63 38.94	4000	760	good one
nbp21402.008	XBT-7	4	DP4	59 16.24	63 35.65	3857	760	good one
nbp21402.009	XBT-7	5	DP5	59 26.313	63 32.230	4030	760	good one
nbp21402.010	XBT-7	6	DP6	59 36.29	63 28.559	4163	760	good one
nbp21402.011	XBT-7	7	DP7	59 46.037	63 25.442	3956	760	good one
nbp21402.012	XBT-7	8	DP8	59 57.117	63 21.95	2660	760	good one
nbp21502.001	XBT-7	9	DP9	60 05.605	63 17.768	3888	550	wire broke
nbp21502.002	XBT-7	10	DP10	60 16.015	63 14.776	3788	180	wire broke
nbp21502.003	XBT-7	11	DP11	60 25.547	63 11.709	3826	430	wire broke
nbp21502.004	XBT-7	12	DP12	60 35.380	63 08.235	2373	340	wire broke
nbp21502.005	XBT-7	13	DP13	60 45.147	63 04.460	1634	200	wire broke
nbp21502.006	XBT-7	14	DP14	60 55.241	63 02.574	3009	443	wire broke
nbp21502.007	XBT-7	15	DP15	61 06.129	62 58.282	3623	19	wire broke
nbp21502.008	XBT-7	16	DP16	61 06.129	62 58.282	3623	575	wire broke
nbp21502.009	XBT-7	17	DP17	61 14.824	62 54.996	3582	156	wire broke
nbp21502.010	XBT-7	18	DP18	61 15.269	62 54.700	3582	20	wire broke
nbp21502.011	XBT-7	19	DP19	61 15.715	62 54.578	3589	240	wire broke
nbp21502.013	XBT-7	20	DP20	61 24.955	62 45.245	3463	760	
nbp21502.014	XBT-7	21	DP21	61 34.581	62 43.739	3500	250	wire broke
nbp21502.015	XBT-7	22	DP22	61 35.103	62 43.732	3695	266	wire broke
nbp21502.016	XBT-7	23	DP23	61 44.64	62 43.07	3450	600	wire broke
nbp21502.017	XBT-7	24	DP24	61 54.118	62 39.920	3903	635	wire broke
nbp21502.018	XBT-7	25	DP25	62 4.07	62 36.69	1501	20	bad cast
nbp21502.019	XBT-7	26	DP26	62 4.51	62 36.52	4750	400	wire broke
nbp21502.020	XBT-7	27	DP27	62 13.69	62 32.49	3280	350	wire broke
nbp21502.022	XBT-7	28	DP28	62 23.866	62 28.710	1795	260	wire broke
nbp21502.023	XBT-7	29	DP29	62 24.201	62 28.613	1792	145	wire broke
nbp21502.024	XBT-7	30	DP30	62 30.251	62 24.600	414	410	good one
nbp21502.025	XBT-7	31	DP31	62 30.413	62 24.386	413	413	good one
nbp21502.026	XBT-7	32	BS1	62 39.863	62 14.199	533	520	good one
nbp21502.027	XBT-7	33	BS2	62 48.99	62 5.31	665	665	good one
nbp21502.028	XBT-7	34	BS3	62 58.14	61 54.91	760	760	good one
nbp21502.029	XBT-7	35	BS4	63 07.14	61 45.99	544	544	good one
nbp21602.001	XBT-7	36	BS5	63 16.689	61 39.513	1090	760	good one
nbp21602.002	XBT-7	37	BS6	63 26.229	61 32.598	1139	760	good one
nbp21602.003	XBT-7	38	BS7	63 35.658	61 26.300	906	760	good one
nbp21602.004	XBT-7	39	BS8	63 45.165	61 21.505	920	760	good one
nbp21602.005	XBT-7	40	BS9	63 53.595	61 34.638	1091	760	good one
nbp21602.006	XBT-7	41	BS10	64 1.870	61 46.321	1148	50	wire broke
nbp21602.007	XBT-7	42	BS11	64 2.357	61 46.541	1148	122	wire broke
nbp21602.008	XBT-7	43	BS12	64 2.892	61 46.781	1141	92	wire broke
nbp21602.009	XBT-7	44	BS13	64 11.969	61 52.789	812	114	wire broke
nbp21602.010	XBT-7	45	BS14	64 12.250	61 52.910	800	79	wire broke
nbp21602.011	XBT-7	46	BS15	64 21.260	61 59.050	953	760	good one
nbp21602.013	XBT-7	47	BS16	64 28.004	62 13.183	692	750	good one
nbp21602.014	XBT-7	48	BS17	64 32.920	62 33.699	780	760	good one
nbp21602.015	XBT-7	49	BS18	64 38.219	62 53.931	525	525	good one
nbp21602.016	XBT-7	50	BS19	64 46.122	63 06.960	313	193	wire broke

nbp21602.017	XBT-7	51	BS20	64 46.417	63 07.514	265	265	good one
nbp21602.018	XBT-7	52	BS21	64 54.475	63 19.078	323	323	good one
nbp22002.004	XBT-7	53	transit1	66 34.791	68 28.215	473	150	wire broke
nbp22002.005	XBT-7	54	transit1	66 34.959	68 28.697	387	275	
nbp22002.006	XBT-4	55	transit1	66 39.833	68 50.814	385	150	wire broke
nbp22002.007	XBT-4	56	transit1	66 39.917	68 51.054	380	380	
nbp22102.001	XBT-4	57	transit1	66 47.118	69 10.063	214	214	
nbp22102.002	XBT-4	58	transit1	66 52.539	69 30.875	420	386	wire broke
nbp22102.003	XBT-7	59	transit1	66 57.874	69 51.672	650	500	wire broke
nbp22102.004	XBT-7	60	transit1	67 04.094	70 16.166	658	658	
nbp22102.024	XBT-4	61	transit1	67 16.90	70 47.67	515	140	wire broke
nbp22102.025	XBT-4	62	transit1	67 17.00	70 47.92	513	192	wire broke
nbp22102.028	XBT-4	63	transit1	67 23.31	71 07.32	496	460	good one
nbp22202.001	XBT-4	64	transit1	67 35.069	71 51.877	~400	160	
nbp22202.002	XBT-4	65	transit1	67 35.125	71 52.030	~400	125	
nbp22202.003	XBT-4	66	transit1	67 40.58	72 13.21	348	0	wire broke
nbp22202.004	XBT-4	67	transit1	67 40.68	72 13.45	348	0	wire broke
nbp22202.005	XBT-7	68	transit1	67 40.84	72 13.78	348	92	wire broke
nbp22202.006	XBT-7	69	transit1	67 41.173	72 14.333	348	348	good one
nbp22202.007	XBT-4	70	transit1	67 47.440	72 34.253	466	167	wire broke
nbp22202.008	XBT-4	71	transit1	67 47.479	72 34.403	466	377	wire broke
nbp22202.009	XBT-4	72	transit1	67 55.26	72 51.04	405	17	wire broke
nbp22202.010	XBT-4	73	transit1	67 55.32	72 51.17	405	130	wire broke
nbp22202.011	XBT-4	74	transit1	67 55.398	72 51.356	405	405	good one
nbp22202.014	XBT-4	75	transit1	68 02.641	73 08.658	359	199	wire broke
nbp22202.015	XBT-4	76	transit1	68 02.664	73 08.699	359	359	good one
nbp22902.019	XBT-7	77	Transit2	67 58.474	74 38.883	875	87	wire broke
nbp22902.020	XBT-7	78	Transit2	67 58.386	74 38.609	919	87	wire broke
nbp23002.001	XBT-4	79	Transit2	67 46.634	73 56.311	421	260	wire broke
nbp23002.002	XBT-4	80	Transit2	67 45.423	73 31.204	440	163	wire broke
nbp23002.003	XBT-7	81	Transit2	67 45.402	73 30.927	440	213	wire broke
nbp23002.004	XBT-4	82	Transit2	67 33.604	73 17.928	483	460	
nbp23002.007	XBT-4	83	Transit2	67 33.604	73 17.923	483	460	
nbp23002.008	XBT-4	84	Transit2	67 30.717	72 52.984	460	183	wire broke
nbp23002.009	XBT-4	85	Transit2	67 30.816	72 52.587	450	260	wire broke
nbp23002.010	XBT-4	86	Transit2	67 30.534	72 28.283	380	300	wire broke
nbp23002.011	XBT-4	87	Transit2	67 35.337	72 5.766	388	40	bad cast
nbp23002.012	XBT-4	88	Transit2	67 35.408	72 5.528	396	364	good
nbp23002.015	XBT-4	89	Transit2	67 34.431	71 38.853	430	430	good
nbp23002.016	XBT-4	90	Transit2	67 43.071	71 50.174	312	330	hit bottom
nbp23502.002	XBT-7	91	46-64	67 29.821	74 26.331			failed
nbp23902.015	XBT-4	92	40 to 28	67 56.234	70 59.924	380		bad cast
nbp23902.016	XBT-4	93	40 to 28	67 56.231	70 59.953	380		bad cast
nbp24202.002	XBT-4	94		67 2.198	72 24.18	408	139	bad
nbp24202.003	XBT-4	95		67 2.123	72 24.217	408	123	bad
nbp24202.004	XBT-4	96		67 1.975	72 24.196	408	79	bad
nbp24202.005	XBT-4	97		67 1.391	72 23.729	410	410	bad
nbp24202.006	XBT-7	98		66 51.77	72 18.12	429	386	bad
nbp24202.008	XBT-4	99		66 44.24	72 2.05	313	208	
nbp24202.010	XBT-4	100		66 43.78	72 1.17	315	122	bad
nbp24202.011	XBT-4	101	near 23	66 42.94	72 2.54	1500	460	too warm
nbp24302.001	XBT-7	102	23 to G	66 45.77	71 37.49	496	496	
nbp24302.002	XBT-7	103	23 to G	66 43.78	71 11.36	475	84	
nbp24302.003	XBT-7	104	23 to G	66 43.77	71 11.29	475	462	
nbp24302.010	XBT-7	105	Gould to 4	66 42.706	70 48.366	550	205	wire broke
nbp24302.011	XBT-7	106	Gould to 4	66 42.573	70 42.573	546	535	good cast
nbp24302.012	XBT-7	107	Gould to 4	66 34.845	70 28.504	590	590	good cast
nbp24302.015	XBT-7	108	Gould to 4	66 28.71	70 7.95	538	538	good cast

nbp24302.016	XBT-4	109	Gould to 4	66 22.29	69 48.71	452	200	wire broke
nbp24302.017	XBT-4	110	Gould to 4	66 22.24	69 48.48	452	400	good cast
nbp24302.018	XBT-4	111	Gould to 4	66 15.94	69 29.18	420	420	good cast
nbp25702.014	XBT-7	112	GS8	63 44.343	61 20.099	848		
nbp25702.016	XBT-7	113	BS1	63 35.303	61 26.226	887	760	
nbp25702.017	XBT-7	114	BS2	63 25.868	61 32.783	785	760	
nbp25702.018	XBT-7	115	BS3	63 16.361	61 39.245	758	760	
nbp25702.019	XBT-7	116	BS4	63 6.717	61 46.405	495	435	
nbp25702.020	XBT-7	117	BS5	62 57.363	61 56.458	868	760	
nbp25702.021	XBT-7	118	BS6	62 47.38	62 4.98	628	456	
nbp25702.024	XBT-7	119	DP2	62 29.85	62 22.94	340	280	
nbp25702.026	XBT-7	120	DP3	62 18.58	62 30.36	2200	200	repeated
nbp25702.027	XBT-7	121	DP3	62 18.58	62 30.36	2246	760	good

APPENDIX 5. Summary of the XCTD cast details. Event number, probe type, cast number, station number, drop latitude and longitude, water depth (m), and XCTD depth (m) for the made during NBP02-04. The status of each drop is given in the final column.

Event Number	Probe Type	Cast Number	Consec. Station no.	Latitude (° S) Deg. Min.	Longitude (° W) Deg. Min.	Water Depth (m)	Cast Depth (m)	Comments
nbp23502.001	XCTD	1	46-64	67 29.827	74 26.275			failed
nbp23502.003	XCTD	2	46-64	67 29.810	74 26.410			failed
nbp25702.013	XCTD	3	GS7	63 52.761	61 33.355	1080	961	
nbp25702.015	XCTD	4	GS8	63 43.652	61 20.714	848	761	
nbp25702.023	XCTD	5	DP1	62 43.61	62 13.14	496	438	
nbp25702.025	XCTD	6	DP3	62 20.72	62 29.25	1972	1800	lost data
nbp25702.028	XCTD	7	DP4	62 10.48	62 33.56	1293	300	repeated
nbp25702.029	XCTD	8	DP4	62 10.202	62 33.66	1293	180	repeated
nbp25702.030	XCTD	9	DP4	62 10.00	62 33.74	1828	873	
nbp25702.031	XCTD	10	DP5	62 0.96	62 37.17	2000	1850	
nbp25802.001	XCTD	11	DP6	61 50.98	62 40.64	2262	1256	
nbp25802.002	XCTD	12	DP7	61 40.834	62 44.506	3432	1850	
nbp25802.003	XCTD	13	DP8	61 30.796	62 48.336	3437	313	
nbp25802.004	XCTD	14	DP9	61 21.006	62 52.290	3457	166	repeated
nbp25802.005	XCTD	15	DP9	61 20.729	62 52.370	3459	1275	
nbp25802.007	XCTD	16	DP10	61 11.473	62 53.960	3580	1710	
nbp25802.008	XCTD	17	DP11	61 0.713	62 59.587	3702	1756	
nbp25802.009	XCTD	18	DP12	60 50.514	63 2.922	2670	1742	repeated
nbp25802.010	XCTD	19	DP12	60 41.301	63 6.088	3735	1750	
nbp25802.011	XCTD	20	DP13	60 31.751	63 9.337	4030	1460	
nbp25802.012	XCTD	21	DP14	60 21.89	63 13.01	3713	1700	
nbp25802.013	XCTD	22	DP15	60 12.05	63 16.49	3793	1500	
nbp25802.014	XCTD	23	DP16	60 2.069	63 19.944	3836	1434	
nbp25802.015	XCTD	24	DP17	59 52.268	63 23.31	3800	1395	
nbp25802.016	XCTD	25	DP18	59 42.106	63 28.70	3700	1591	
nbp25802.018	XCTD	26	DP19	59 32.12	63 30.23	4191	1599	
nbp25802.019	XCTD	27	DP20	59 22.26	63 33.44	3737	1785	
nbp25802.020	XCTD	28	DP21	59 12.49	63 36.71	3904	1407	
nbp25802.021	XCTD	29	DP22	59 2.592	63 40.153	3908	1746	
nbp25802.022	XCTD	30	DP23	58 53.053	63 43.605	3537	1584	
nbp25802.023	XCTD	31	DP24	58 43.06	63 46.81	3935	1850	

APPENDIX 6. NBP02-04 CMiPS Data Summary

Cast	Day	Year Date	Station	Filename	File Size (bytes)
9	9 Aug	221.6389	Transit 1	221-1505.dat	2,221,000
10	9 Aug	221.6576	Transit 1	221-1513.dat	1,681,000
				221-1523.dat	361,000
				221-1551.dat	-
				221-1557.dat	121,000
11	11 Aug	223.884	75	223-2035.dat	3,870,732
				223-2045.dat	983,052
				223-2048.dat	430,092
				223-2049.dat	675,852
				223-2051.dat	3,133,452
				223-2059.dat	61,452
				223-2100.dat	1,966,092
				223-2105.dat	1,720,332
				223-2110.dat	1,904,652
				223-2115.dat	4,546,572
				223-2127.dat	4,792,332
12	12 Aug	224.3562	76	224-0817.dat	15,482,892
13	12 Aug	224.3743	76	224-0900.dat	10,976,332
14	12 Aug	224.8681	77	224-2038.dat	6,574,092
15	12 Aug	224.891	77	224-0900.dat	15,175,692
16	13 Aug	225.5028	to 81	225-1142.dat	6,266,892
17	13 Aug	225.5194	to 81	225-1200.dat	18,554,892
18	13 Aug	225.8576	81	225-2024.dat	12,840,972
19	13 Aug	225.8736	81	225-2100.dat	7,127,052
22	15 Aug	227.0146	74	227-0008.dat	6,819,852
24	15 Aug	227.3875	73	227-0851.dat	3,072,012
25	15 Aug	227.4042	73	227-0900.dat	2,949,132
				227-0908.dat	7,249,932
				227-0927.dat	6,144,012
				227-0944.dat	1,843,212
				227-0949.dat	3,932,172
				227-1000.dat	4,423,692
				227-1012.dat	1,904,652
26	15 Aug	227.8187	72	227-1913.dat	921,612
27	15 Aug	227.8299	72	227-1917.dat	7,311,372
28	15 Aug	227.8562	72	227-1937.dat	983,052
				227-1940.dat	1,720,332
				227-1947.dat	4,608,012
				227-2000.dat	5,283,852
				227-2014.dat	16,834,572
				227-2100.dat	3,317,772
29	17 Aug	229.625	65	229-1443.dat	3,440,652
30	17 Aug	229.6431	65	229-1452.dat	737,292
				229-1454.dat	1,167,372
				229-1457.dat	798,732
				229-1500.dat	22,118,412
32	20 Aug	232.6354	43	232-1448.dat	4,177,932
33	20 Aug	232.6549	43	232-1500.dat	22,118,412
34	21 Aug	233.4875	44	233-1035.dat	8,908,812
				233-1100.dat	22,118,412
				233-1200.dat	19,783,692
35	22 Aug	234.0715	45	234-0048.dat	4,362,252
				234-0100.dat	22,118,412
				234-0200.dat	15,974,412

Cast	Day	Year Date	Station	Filename	File Size (bytes)
36	22 Aug	234.866	46	234-2023.dat	13,516,812
37	22 Aug	234.8854	46	234-2100.dat	15,482,892
41	24 Aug	236.6708	62	236-1527.dat	11,796,492
				236-1600.dat	18,370,572
42	25 Aug	237.3736	48	237-0839.dat	7,372,812
43	25 Aug	237.391	48	237-0900.dat	20,951,052
44	25 Aug	237.7604	49	237-1801.dat	21,688,332
45	25 Aug	237.7826	49	237-1900.dat	10,076,172
46	26 Aug	238.575	40	238-1317.dat	3,440,652
47	26 Aug	238.5979	40	238-1330.dat	10,874,892
				238-1400.dat	4,853,772
				238-1413.dat	17,264,652
				238-1500.dat	5,406,732
48	28 Aug	240.4271	41	240-0954.dat	2,027,532
49	28 Aug	240.4465	41	240-1000.dat	22,118,412
				240-1100.dat	5,591,052
50	29 Aug	241.4694	26	241-1054.dat	1,904,652
51	29 Aug	241.4903	26	241-1100.dat	22,118,412
				241-1200.dat	7,618,572
52	29 Aug	241.7722	26	241-1818.dat	15,421,452
53	29 Aug	241.7847	26	241-1900.dat	14,254,092
54	29 Aug	241.7979	26		
55	29 Aug	241.8104	26		
56	1 Sep	244.4035	4	244-0923.dat	13,455,372
57	1 Sep	244.4215	4	244-1000.dat	14,008,332
58	1 Sep	244.7965	3	244-1832.dat	10,137,612
59	1 Sep	244.8132	3	244-1900.dat	19,476,492
60	2 Sep	245.1111	2	245-0210.dat	18,124,812
				245-0300.dat	7,802,892
64	3 Sep	246.5417	12	246-1226.dat	12,103,692
				246-1300.dat	18,001,932
65	3 Sep	246.8861	11	246-2047.dat	4,669,452
66	3 Sep	246.9028	11	246-2100.dat	22,118,412
				246-2200.dat	1,413,132
67	4 Sep	247.4299	10	247-1000.dat	21,872,652
68	4 Sep	247.4521	10	247-1100.dat	20,213,772
69	4 Sep	247.7917	16	247-1837.dat	8,048,652
70	4 Sep	247.8035	16	247-1900.dat	22,118,412
71	4 Sep	247.8181	16	247-2000.dat	22,118,412
72	4 Sep	247.8313	16	247-2100.dat	4,730,892
73	4 Sep	247.8458	16		
74	4 Sep	247.866	16		
75	5 Sep	248.4694	15	248-1056.dat	1,228,812
76	5 Sep	248.4882	15	248-1100.dat	22,118,412
				248-1200.dat	6,144,012
77	5 Sep	248.716	14	248-1651.dat	3,194,892
78	5 Sep	248.7306	14	248-1700.dat	22,118,412
79	5 Sep	248.7451	14	248-1800.dat	10,874,892
80	5 Sep	248.7597	14	248-1845.dat	5,160,972
81	5 Sep	248.8132	14	248-1900.dat	22,118,412
82	6 Sep	249.3125	23	249-0702.dat	21,012,492
83	6 Sep	249.3542	23	249-0800.dat	22,118,412
				249-0900.dat	16,097,292
84	6 Sep	249.6847	22	249-1610.dat	18,309,132
85	6 Sep	249.7035	22	249-1700.dat	7,249,932
86	7 Sep	250.2778	21	250-0607.dat	19,292,172
87	7 Sep	250.2986	21	250-0700.dat	17,756,172

Cast	Day	Year Date	Station	Filename	File Size (bytes)
88	7 Sep	250.6056	20a	250-1411.dat	17,879,052
89	7 Sep	250.6215	20a	250-1500.dat	22,118,412
90	7 Sep	250.6306	20a	250-1600.dat	6,635,532
91	7 Sep	250.6486	20a		
92	7 Sep	250.9389	19	250-2211.dat	17,940,492
93	7 Sep	250.9542	19	250-2300.dat	9,093,132
94	8 Sep	251.6243	18	251-1439.dat	7,311,372
95	8 Sep	251.6431	18	251-1500.dat	20,582,412
96	9 Sep	252.1486	17	252-0316.dat	16,097,292
97	9 Sep	252.1701	17	252-0400.dat	13,455,372
98	9 Sep	252.5396	9	252-1237.dat	8,110,092
99	9 Sep	252.5556	9	252-1300.dat	18,124,812
100	9 Sep	252.7722	8	252-1818.dat	14,622,732
101	9 Sep	252.7806	8		
102	10 Sep	253.2639	5	253-0603.dat	20,705,292
103	10 Sep	253.2833	5	253-0700.dat	11,735,052
104	11 Sep	254.4056	RI1	254-0924.dat	13,025,292
105	11 Sep	254.4215	RI1	254-1000.dat	7,925,777
106	11 Sep	254.6653	RI2	254-1539.dat	7,557,132
107	11 Sep	254.6868	RI2	254-1600.dat	22,118,412
				254-1700.dat	3,256,332
108	11 Sep	254.8924	RI3	254-2106.dat	19,722,252
109	11 Sep	254.9056	RI3	254-2200.dat	22,118,412
110	11 Sep	254.9187	RI3	254-2300.dat	983,052
111	11 Sep	254.9375	RI3		
112	12 Sep	255.1208	RI4	255-0236.dat	8,540,172
113	12 Sep	255.1347	RI4	255-0300.dat	22,118,412
114	12 Sep	255.1542	RI4	255-0400.dat	6,021,132
115	12 Sep	255.2882	RI5	255-0620.dat	14,376,972
116	12 Sep	255.3076	RI5	255-0700.dat	22,118,412
				255-0800.dat	2,826,252
117	13 Sep	256.8396	GS1	256-1953.dat	2,519,152
118	13 Sep	256.8528	GS1	256-2000.dat	15,974,412
119	13 Sep	256.9326	GS2	259-2206.dat	19,476,492
120	13 Sep	256.9542	GS2	256-2300.dat	5,713,932
121	14 Sep	257.0389	GS3	257-0040.dat	7,127,052
122	14 Sep	257.0528	GS3	257-0100.dat	22,118,412
123	14 Sep	257.0715	GS3	257-0200.dat	737,292
124	14 Sep	257.1576	GS4	257-0330.dat	10,690,572
125	14 Sep	257.1799	GS4	257-0400.dat	22,118,412
126	14 Sep	257.1938	GS4	257-0500.dat	18,186,252
127	14 Sep	257.2174	GS4		
128	14 Sep	257.3264	GS5	257-0723.dat	13,455,372
129	14 Sep	257.3493	GS5	257-0800.dat	17,018,892
130	14 Sep	257.4681	GS6	257-1032.dat	10,137,612
				257-1100.dat	17,879,052
Test file	15 Aug	227		227-0619.dat	1,044,492
Test file	15 Aug	227		227-0623.dat	675,852
Test file	15 Aug	227		227-2111.dat	4,423,692

APPENDIX 7. Ctenophores removed from 1-m² MOCNESS tows prior to sample preservation. ND= No Description.

Date 2002	1-m ² MOC Tow #	Event # NBP	Station	Depth (approx) (m)	Total Length (mm)	Width	Cteno#	Condition	Condition Description	Morphological Comments	Comments
24 Aug	8	23602.17,18	62 to 48	Net 7	~20mm	-	1	Excellent	ND	ND	"Kayli" Did not get immediate measurements- used for digestion time. Kayli was dropped and lost.
29 Aug	9	24102.13,14	26	50 - 25	13	8	1	O.K.	Mouth torn, keels missing, one side torn.	none	
29 Aug	9	24102.13,14	26	75 - 50	7	.5?	2	O.K.	Mouth slightly torn.	Velvet purple coloration in side branches and stomodeum lining. Can see keels- very small. Tentacles appear to exit out the side/bottom side of keels.	Froze for C-N ?
03 Sep	11	24602.24,25	11	150 - 100	small		1	ND	ND	small	net 3
04 Sep	12	24702.30,31	16	Net 7	45-50	18	1, (1)	O.K.	No keels, mouth o.k.	Purple coloration in stmdm, comb rows, tentacle side branches, and anal pore.	
04 Sep	12	24702.30,31	16	Net 7	15	-	1, (2)	bad	No keels and mouth torn	Purple coloration in stmdm, comb rows, tentacle side branches, and anal pore.	
04 Sep	12	24702.30,31	16	Net 3	*70	-	2, (3)	O.K.	mouth and keels torn	Purple coloration in side branches only	Froze for lipids
04 Sep	#12	24702.30,31	16	Net 8 surface	*<30	-	1, (4)	O.K.	Keels gone, top mouth torn	Purple coloration in stmdm, comb rows, tentacle side branches, and anal pore.	
04 Sep	12	24702.30,31	16	Net 8 surface	*40	-	2, (5)	Very Bad	ND	Purple coloration in stmdm, comb rows, tentacle side branches, and anal pore.	
04 Sep	12	24702.30,31	16	Net 8 surface	73	25	3, (6)	Good	ND	Purple coloration in side branches only. Very long keels. Tentacles exit out bottom/side bottom of keels.	C-N?
04 Sep	12	24702.30,31	16	Net 0	85	25	1, (7)	Great	Very tip of keels torn. Mouth perfect	Purple coloration in side branches only. Very long keels. Comb rows end very near to mouth.	photos , genetics?
09 Sep	16	25202.010,11	9	Net 4	*90	35	1	O.K.	keels ripped, stmdm split, mouth slightly torn.	Velvet purple coloration in side branches, comb rows, anal pore.	

APPENDIX 8. BIOMAPER-II deployment log for NBP02-04.

TOW	STN	DATE (GMT) (EDT)ATEDATE	DATE (EDT)	TIME (GMT)	TIME (EDT)	LAT °S	LON °W	DPTw (m)	DAT TAPE	ACOUSTIC FILENAME	BM DAY	ESS FILENAME	VIDEO-TAPES	CAM2 CAM4	VPR FILENAME	VPR DAY	BS TR	COMMENTS
1	Test SM1	7/31	7/31	2213	1813	52 41.746	70 10.917			B2121822	212	B2121817	1	2	07312220.01	211		Test tow in Straits of Magellan
	Test SM1	7/31	7/31	2245	1845	52 41.38	70 7.904			end	212	B2121817	1	2	07312220.01	211		End test 1 with tail fin down (left ess running without pump on)
2	Test SM2	7/31	7/31	2301	1901	52 41.337	70 7.419			B2121901	212	B2121817	1	2	07312305.01	211		Start test 2 with tail fin up 20 degrees
	Test SM2	7/31	7/31	2335	1935	52 40.937	70 4.821			end	212	B2121817	1	2	07312305.01	211		End test 2 with tail fin up 20 degrees
3	Test SM3	7/31	7/31	2343	1943	52 40.854	70 4.367			B2121946	212	B2121817	1	2	07312305.01	211		Start test 3 with tail up about 5 degrees
	Test SM3	8/01	7/31	0016	2016	52 40.248	70 1.512			end	212	B2121817	1	2	07312305.01	212		End test 3
4	Matha Str.	8/05	8/05	2017	1617	66 31.369	67 16.227		1	B2171730	217	B2171617	3	4	08052108.01	216		Calibration in Crystal Sound. 2017 start ESS on deck. 2058 in water.
										B2171804	217					216		Three filenames, no end times.
										B2171823	217					216		
4	Matha Str.	8/05	8/05	2017	1617	66 31.369	67 16.227		1		217	B2171617	3	4	08052240.01	216		VPR program crashed - reboot
4	Matha Str.	8/05	8/05	2315	1914	66 31.369	67 16.227		1		217		5	6	08052313.01	216		Tape change and VPR file crashed again.
4	Matha Str.	8/05	8/05	2347	1947	66 31.369	67 16.227		2		217					216		DAT tape change
5	75/76	8/11	8/11	2224	1824	68 40.077	76 09.985		2	N2231825	223	B2231712	none	none	08112121.01	222		Continue with Calibration. VPR files started before fish in H2O
5	75/76	8/11	8/11								223					222		
5	75/76	8/11	8/11								223					222		
5	75/76	8/11	8/11	2335	1935	68 39.912	76 09.811		2	N2231935	223	B2231712			08112121.01	222		Last run

5	75/76	8/12	8/11	2341	1941	68 40.099	76 09.985				223							Bringing it on deck
6	76/77	8/12	8/12	0500	0100	68 43.502	75 58.367		3	B2240102	224	B2240100	7	8	08120459.01	223		Deploy
6	76/77	8/12	8/12	0535	0135	68 43.437	75 55.540		3		224							Too much ice -nice floes -bringing on board
7	77	8/12	8/12	1813	1413	68 53.916	75 08.467		4	S2241417	224	B2241416	9	10	08121817.01	223	11	Vertical profile - Changing filenames from M/D/Time (mddhhmm) to yd/time; yd1=1Jan.
7	77	8/12	8/12	2012	1612	68 52.840	75 07.341		4		224							end tow 7
8	~80	8/13	8/13	1318	0918	69 02.941	75 37.305		5		225	B2250919	11	12	08131324.01	224	12	Start tow 8 - vertical profile to 100 m
8	80/81	8/13	8/13	1420	1020	69 02.941	75 37.305		5		225							End tow
9	73	8/15	8/15	1046	0646	68 27.834	75 00.626		6	B2270650	227	B2270640	13	14	08151033.01	226	10	Biomaper deployed
9	73	8/15	8/15	1140	0740	68 30.33	74 51.812		6		227							Biomaper brought onboard after leak detector went off on sonar
10	73/72	8/15	8/15	1352	0952	68 31.869	74 36.256	559	7	B2270957	227	B2270956	15	16	08151358.01	226	10	RUN_12-200.cfg
10	73/72	8/15	8/15	2035	1635	68 32.820	74 13.443		7		227							Back and Ram - Bring in BMP -- too much ice.
11	66/67	8/16	8/16	1722	1322	68 28.30	74 35.55	452	8	B2281321	228	B2281316	17	18	08161726.01	227	9/10	Launch
11	66/67	8/16	8/16	1915	1515	68 26.567	74 45.908	429	8		228							Recovery
12	67/66	8/16	8/16	2330	1930	68 26.43	74 53.73	309	9	B2282013	228	B2281930	19	20	08162335.01	227	to 8(9)	Launch - trying to get to line 8
12	67/66	8/17	8/16	0200	2200	68 22.688	74 52.074	438	9		228							Recovery
13	65	8/17	8/17	2135	1735	68 8.357	74 35.148	415	10	B2291740	229	B2291735	21	22	08172139.01	228	9	Deployment - tow in trackline of ship coming up to sta 65
13	65	8/17	8/17	2300	1900	68 04.973	74 39.339	403	10		229							Recovery - Krill patch at end of towyo

14	~42	8/19	8/19	2052	1652	67 27.004	71 27.199	652	11	B2311654	231	B2311630	23	24	08192057.01	230		At Station 42
14	42	8/19	8/19	2300	1900	67 24.966	71 14.92	671	11		231					230		Recovered in roaring gale: -54.1C wind chill
15	43/44	8/20	8/20	1930	1530	67 12.027	72 45.291	402	12	B2321530	232	B2321528	25	26	08201931.01	231		Launched
15	44	8/20	8/20	2350	1950	67 7.30	72 22.00		13+14		232		27+29	28+30		231		Tapes changed after 2 hours towing, then recovered at 1950 Local time.
16	to 45	8/21	8/21	1719	1319	67 04.15	73 49.048	3477?	15	B2331323	233	B2331321	31	32	08211724.01	232	to 7	Launched
16	to 45	8/21	8/21	1928	1528			2607	16	B2331528	233		33	34		232		Changed DAT tape, VPR tapes, new acoustics file
16	to 45	8/21	8/21	1946	1546			2768			233				08211946.01	232		Run time error in VPR acquisition system. Restarted. New filename.
16	to 45	8/21	8/21	2131	1731	67 13.973	74 29.562	2529	16	B2331528	233	B2331321	33	34	08211946.01	232		Recovered at station 45
17	45/46	8/22	8/22	1130	0730	67 10.570	74 25.178	>3000	17	B2340753	234	B2340730	35	36	08221123.01	233	7	Launched
17	45/46	8/22	8/22	1359	0959	67 17.758	74 9.999	3064	18	B2340959	234	B2340730	37	38	08221123.01	233	7	Changed DAT tape, VPR tapes, + Acoustic filename
17	45/46	8/22	8/22	1511	1111	67 20.103	74 3.557	2509	18	B2341111	234					233		Changed acoustic filename
17	45/46	8/22	8/22	1558	1158	67 22.371	74 2.140	1982	19	B2341200	234		39	40		233		Changed VPR tapes and DAT tape and Acoustic filename
17	45/46	8/22	8/22	1800	1400	67 26.342	73 52.415	1260	20	B2341401	234		41	42		233		Changed DAT tape and VPR tapes and Acoustic filename
17	45/46	8/22	8/22	1955	1555	67 27.742	73 48.024	400	20		234					233		Retrieval
18	46-64	8/23	8/22	0301	2301	67 27.997	74 09.668	513	21	B2342302	234	B2342236	43	44	08230328.01	234	7-8	Tow from Station 46 to station 64 - out across continental shelf to deep water - good launch
18	46-64	8/23	8/23	0506	0106				22	B2350106	235		45	46		234	7-8	Changed DAT tape, VPR tapes and Acoustic filename
18	46-64	8/23	8/23	0711	0311	67 29.830	74 36.764	1598	23	B2350309	235		47	48		234	7-8	Changed DAT tape, VPR tapes and Acoustic filename

18	46-64	8/23	8/23	0915	0515	67 29.352	74 47.581	1281	24	B2350515	235		49	50		234	7-8	Changed DAT tape, VPR tapes and Acoustic filename
18	46-64	8/23	8/23	1030	0630	67 30.454	74 53.006	1833	24	B2350515	235	B2342236	49	50	08230328.01	234	7-8	Retrieval due to repetitive backing and ramming -> loss of time to next station
19	64-63	8/23	8/23	2030	1630	67 30.196	74 57.976	2942	25	B2351635	235	B2351632	51	52	08232036.01	234	8	ESS locked up. New VPR filename: 08232136.01
19	64-63	8/23	8/23	2238	1838	67 36.103	74 44.112	2881	26	B2351842	235	B2351632	53	54	08232036.01	234	8	Changed DAT tape, VPR tapes and Acoustic filename
19	64-63	8/24	8/23	0046	2046	67 39.580	74 34.771	2115	27	B2352045	235		55	56	08232136.01	235	8	Changed DAT tape, VPR tapes and Acoustic filename
19	64-63	8/24	8/23	0110	2110	67 40.390	74 34.988	2659	27	B2352045	235	B2351632	55	56	08232136.01	235	8	End of towyo at station 63
20	63-62	8/24	8/24	0405	0005	67 40.301	74 34.956	2561	28		236	B2360008	57	58	08240422.01	235	8	Launched, but having computer trouble in control van
20	63-62	8/24	8/24	0445	0045						236		stopped			235		Shut all computers down
20	63-62	8/24	8/24	0455	0055	67 40.592	74 33.521	1034	28	B2360053	236	B2360051	57	58	08240454.01	235	8	Restart - WORKS!
20	63-62	8/24	8/24	0630	0230	67 42.00	74 28.34	1034	29	B2360229	236		59	60		235		Changed DAT tape, VPR tapes and Acoustic filename
20	63-62	8/24	8/24	0835	0435	67 45.347	74 28.313	1012	30	B2360434	236		61	62		235		Changed DAT tape, VPR tapes and Acoustic filename
20	63-62	8/24	8/24	1029	0629	67 46.718	74 24.077	1000	30	B2360434	236	B2360051	61	62	08240454.01	235	8	Retrieve at station 62
21	62-48	8/24	8/24	1820	1420	67 49.406	73 53.456	768	31	B2361424	236	B2361422	63	64	08241825.01	235	9/8	Launched
21	62-48	8/24	8/24	2028	1628	67 50.041	73 27.582	410	32	B2361628	236	B2361422	65	66	08241825.01	235	9/8	Changed DAT tape, VPR tapes and Acoustic filename
21	62-48	8/24	8/24	2115	1715	67 51.012	73 19.567	~420	32	B2361628	236	B2361422	65	66	08241825.01	235	9/8	Pulling to do MOC1, MOC10, Tucker (although not much here)
22	62/48	8/25	8/25	0508	0108	67 55.053	72 52.767	400	33	B2370114	237	B2370108	67	68	08250517.01	236		Launched on way to 48
22	62/48	8/25	8/25	0538	0138					B2370137	237					236		Lost acoustics program - restart
22	62/48	8/25	8/25	0719	0319				34	B2370318	237		69	70		236		Changed DAT tape, VPR tapes and Acoustic filename

22	48	8/25	8/25	0808	0408	67 63.922	72 16.808	303	34		237		69	70		236	7	Retrieved at station 48
23	48/49	8/25	8/25	1025	0628	67 52.350	72 11.255	305	35	B2370626	237	B2370619	71	72	08251021.01	236	7	Launched
23	48/49	8/25	8/25	1238	0838	67 58.412	72 6.871	330	36	B2370838	237		73	74	08251021.01	236	7	Changed DAT tape, VPR tapes and Acoustic filename
23	48/49	8/25	8/25	1444	1044	68 01.711	71 59.354	400	37	B2371045	237	B2370619	75	76	08251021.01	236	7	Changed DAT tape, VPR tapes and Acoustic filename
23	48/49	8/25	8/25	1643	1243	68 02.124	71 41.618	416	38	B2371244	237		77	78		236		Changed DAT tape, VPR tapes and Acoustic filename
23	49	8/25	8/25	1730	1330	68 4.629	71 36.271	465	38		237		77	78		236		Retrieved at station 49
24	49/40	8/26	8/25	0150	2150	67 59.990	71 33.814	345	39	B2372213	237	B2382150	79	80	08260200.01	237	7->6	Launched
24	49/40	8/26	8/26	0428	0028				40	B2380028	238		81	82		237		Changed DAT tape, VPR tapes and Acoustic filename
24	49/40	8/26	8/26	0632	0232				41	B2380232	238		83	84		237		Changed DAT tape, VPR tapes and Acoustic filename
24	49/40	8/26	8/26	0834	0434	67 59.917	70 45.284	350	42	B2380434	238		85	86	08260906.01	237		Changed DAT tape, VPR tapes and Acoustic filename - VPR file hangup
24	49/40	8/26	8/26			68 05.635	70 37.910	746	43	B2380638	238		87	88	08260906.01	237		Changed DAT tape, VPR tapes and Acoustic filename
24	49/40	8/26	8/26	1200	0800	68 04..500	70 28.407	~500	43	B2380638	238	B2382150	87	88	08260906.01	237	7->6	Retrieved after catching gate with cable
25	40/28	8/26	8/26	1809	1409	68 02.483	70 2.971	819	44	B2381422	238	B2381410	89	90	08261810.01	237	6->5	Launched
25	40/28	8/26	8/26	2014	1614			824	45	B2381613	238		91	92		237		Changed DAT tape, VPR tapes and Acoustic filename
25	40/28	8/26	8/26	2032	1632			827	45		238		91	92		237		All stop. Wire frayed with 177 m of wire out - fixing.
25	40/28	8/26	8/26	2125	1725	67 59.072	70 33.444	831	45	B2381613	238	B2381410	91	92		237	6->5	Multiple frays, bad ice, BiomaperII on deck.
26	26toGould	8/30	8/29	0215	2215	67 10.684	72 12.386	430	46	B2412226	241	B2422215	93	94	08301216.01	241		Launched - in transit to the Gould
26	26toGould	8/30	8/30	0404	0004				46	B2420004	242		93	94		241		New Acoustic file with proper configuration

26	26toGould	8/30	8/30	0430	0030	67 07.934	72 18.543	425	46	B2420004	242	B2422215	93	94	08301216.01	241		Recovered in heavy ice
27	4/3	9/1	9/1	1313	0913	66 10.200	69 06.008	350	47	B2440923	244	B2440920	95	96	09011323.01	243	1	Using Switch 120
27	4/3	9/1	9/1	1527	1127	66 04.830	69 24.281	340	48	B2441127	244		97	98	09011323.01	243	1	Changed DAT tape, VPR tapes and Acoustic filename - Nice Towyo so far
27	4/3	9/1	9/1	1646	1246	66 01.734	69 36.039	333	48	B2441246	244	B2440920	97	98	09011323.01	243	1	Stopped and started acquisition again - same deployment - penguins - then stopped again.
28	4/3	9/1	9/1	1658	1258	66 01.501	69 36.524		49	B2441253	244	B2441251	99	100	09011652.01	243		Started new acquisition because penguins fled - again.
28	3	9/1	9/1	1819	1419	65 57.776	69 48.568	342	49		244		99	100		243		On Station - attempting to keep BMP in water - stationary tow
28	3	9/1	9/1	1906	1506	65 57.295	69 49.042		50	B2441506	244	B2441251	101	102		243		Changed DAT tape, VPR tapes and Acoustic filename
28	3	9/1	9/1	2120	1720	65 54.689	69 56.480	360	52	B2441715	244	B2441715	103	104		243		Changed DAT tape, VPR tapes and Acoustic filename
28	3	9/1	9/1	2325	1925	65 48.303	70 22.422	207	52	B2441715	244	B2441715	103	104	09011652.01	243		Strobe has been out for ~1.5 hours. BMP recovered.
In the process of fixing the strobe, it was discovered that camera two pictures were being recorded as camera 4 pictures and camera four pictures were being recorded as camera 2 pictures.																		
All directories and media were relabelled externally. Backup CDs and files already zipped could not be relabelled internally.																		
29	2/1	9/2	9/2	0450	0050	65 44.098	70 22.936	2245	53	B2450049	245	B2450048	105	106	09020449.01	244	1->2	BMP Launched
29	1	9/2	9/2	0638	0238	65 39.121	70 37.478		53	B2450049	245	B2450048	105	106	09020449.01	244	1->2	BMP recovered
30	1/13	9/2	9/2	1310	0910	65 36.694	70 34.872	>3000	54	B2450912	245	B2450912	107	108	09021313.01	244	1->2	BMP launched
30	1/13	9/2	9/2	1515	1115	65 43.035	70 44.293	>3000	55	B2451115	245	B2450912	109	110	09021313.01	244	1->2	Changed DAT tape, VPR tapes and Acoustic filename
30	1/13	9/2	9/2	1718	1318				56	B2451318	245	B2450912	111	112	09021313.01	244	1->2	Changed DAT tape, VPR tapes and Acoustic filename
30	1/13	9/2	9/2	1832	1432	65 56.474	71 02.254		56	B2451318	245	B2450912	111	112	09021313.01	244	1->2	Retrieval near Sta. 13 -> MOC10 tow

31	13/12	9/3	9/3	0715	0315	65 59.649	71 01.455	2930	57	B2460321	246	B2460315	113	114	09030719.01	245	2	Launch BMP
31	12	9/3	9/3	0850	0450	66 05.574	70 53.650	1145	57	B2460321	246	B2460315	113	114	09030719.01	245	2	Retrieval - May have used wrong config file!! for towyo
32	12-11	9/3	9/3	1434	1034	66 05.798	70 49.582	529	58	B2461039	246	B2461036	115	116	09031440.01	245	2	Using NBP0204_120-200only_switch.cfg
32	12-11	9/3	9/3	1510	1110	66 07.715	70 47.103	570	58	B2461039	246	B2461110	115	116	09031510.01	245	2	New ESS + DAC files started -- Bad time on ESS -12 hrs off. Fixed.
32	12-11	9/3	9/3	1642	1242				59	B2461243	246	B2461110	117	118		245	2	Changed DAT tape, VPR tapes and Acoustic filename
32	11	9/3	9/3	1800	1400	66 14.56	70 22.60		59	B2461243	246	B2461110	117	118	09031510.01	245	2	Retrieval for penguins. Station 11.
33	11-10	9/4	9/3	0356	2356	66 14.669	70 20.599		60	B2462349	246	B2462348	119	120	09040349.01	246	2	Deployment from Station 11 to Station 10
33	11-10	9/4	9/4	0552	0152	66 20.093	70 3.362	452	61	B2470151	247		121	122		246	2	Changed DAT tape, VPR tapes and Acoustic filename
33	11-10	9/4	9/4	0755	0355			463	62	B2470355	247		123	124		246	2	Changed DAT tape, VPR tapes and Acoustic filename
33	11-10	9/4	9/4	0846	0446	66 26.322	69 39.522	491	62	B2470355	247	B2462348	123	124	09040349.01	246	2	Retrieval for heavy ice
34	10-16	9/4	9/4	1200	0800	66 27.380	69 37.212	500	63	B2470804	247	B2470748	125	126	09041201.01	246	2-3	Deployment
34	10-16	9/4	9/4	1404	1004	66 33.023	69 46.429	470	64	B2471005	247		127	128		246	2-3	Changed DAT tape, VPR tapes and Acoustic filename
34	10-16	9/4	9/4	1608	1208	66 39.007	70 02.321	396	65	B2471208	247		129	130		246	2-3	Changed DAT tape, VPR tapes and Acoustic filename
34	16	9/4	9/4	1740	1340	66 45.099	70 09.230	518	65	B2471208	247	B2470748	129	130	09041201.01	246	3	Retrieval at Station 16
35	16/15	9/5	9/4	0340	2340	66 44.867	70 05.718	464	66	B2472351	247	B2472340	131	132	09050347.01	247	3	Deployment
35	16/15	9/5	9/5	0557	0157	66 38.984	70 23.064	606	67	B2480155	248		133	134		247	3	Changed DAT tape, VPR tapes and Acoustic filename
35	16/15	9/5	9/5	0744	0344				68	B2480342	248		135	136		247	3	Changed DAT tape, VPR tapes and Acoustic filename - for some reason DAT recorder is 16 min early

35	16/15	9/5	9/5	0945	0545	66 30.882	70 55.124	544	69	B2480545	248	B2472340	137	138	09050347.01	247	3	Changed DAT tape, VPR tapes and Acoustic filename
35	16/15	9/5	9/5	1030	0630	66 30.903	70 57.889	544	69	B2480545	248	B2472340	137	138	09050347.01	247	3	End of run -- Pulled fish up to put on tag line and change all files - End of Event
36	at 15	9/5	9/5	1042	0642	66 30.903	70 57.889	543	70	B2480641	248	B2480638	139	140	09051050.01	247	3	On Station during CTD at 15
36	15-14	9/5	9/5	1226	0826	66 30.864	70 57.240	540	71	B2480826	248		141	142		247	3	Changed DAT tape, VPR tapes and Acoustic filename - moving from stationary to underway acquisition (same tow#)
36	15-14	9/5	9/5	1431	1031	66 26.386	71 16.736	520	72	B2481031	248		143	144		247	3	Changed DAT tape, VPR tapes and Acoustic filename
36	14	9/5	9/5	1513	1113	66 24.232	71 21.537	614	72	B2481031	248	B2480638	143	144	09051050.01	247	3	End of towyo at Station 14
37	14-23	9/5	9/5	2013	1613	66 23.401	71 21.850	930	73	B2481618	248	B2481613	145	146	09052015.01	247	3-4	Launch Biomaper
37	14-23	9/5	9/5	2228	1828	66 28.188	71 42.864	2350	74	B2481820	248		147	148		247	3-4	Changed DAT tape, VPR tapes and Acoustic filename
37	14-23	9/6	9/5	0020	2020				75	B2482020	248		149	150		248		Changed DAT tape, VPR tapes and Acoustic filename
37	23	9/6	9/5	0132	2132	66 35.584	72 09.376	3300+	75	B2482020	248	B2481613	149	150	09052015.01	248	3-4	End towyo at Station 23
38	23/22	9/6	9/6	1255	0855	66 43.010	71 49.442	474	76	B2490900	249	B2490855	151	152	09061256.01	248	4	Deploy between 23 -> 22
38	23/22	9/6	9/6	1503	1103	66 47.646	71 31.784	466	77	B2491103	249		153	154		248	4	Changed DAT tape, VPR tapes and Acoustic filename
38	22	9/6	9/6	1537	1137	66 48.887	71 26.634	475	77	B2491103	249	B2490855	153	154	09061256.01	248	4	End of tow
39	22-21	9/6	9/6	2147	1747	66 54.848	71 08.568	484	78	B2491744	249	B2491738	155	156	09062142.01	248	4	launch Biomaper in transit to Station 21
39	22-21	9/6	9/6	2347	1947	67 00.050	70 51.271	485	79	B2491947	249	B2491738	157	158		248	4	Changed DAT tape, VPR tapes and Acoustic filename
39	21	9/7	9/6	0055	2055	67 01.871	70 44.787	470	79	B2491947	249	B2491738	157	158	09062142.01	249	4	End of tow
40	21 to 20	9/7	9/7	1100	0700	67 05.811	70 41.905		80	B2500703	250	B2500656	159	160	09071106.01	249	4	Deploy for transit to Station 20

40	21 to 20	9/7	9/7	1304	0904	67 10.393	70 23.908	610	81	B2500903	250		161	162	09071106.01	249	4	Changed DAT tape, VPR tapes and Acoustic filename
40	21 to 20	9/7	9/7	1356	0956	67 12.304	70 17.117		81	B2500903	250		161	162		249	4	End of run to Station 20. Fish remains in H2O. New tapes + files while on station.
40	20	9/7	9/7	1410	1010	67 12.338	70 17.002	660	82	B2501010	250	B2500656	163	164	09071412.01	249	4	Start Horizontal time series. Tape change and files. Restart Acoustics/VPR not ESS
40	20	9/7	9/7	1558	1158	67 12.381	70 16.178	661	82	B2501158	250		163	164		249	4	Acoustic computer bombed while doing Paint Screen Save. Restart. Still with CTD in H2O.
40	20 to 19	9/7	9/7	1618	1218	67 12.500	70 15.006	757	83	B2501225	250	B2500656	165	166	09071618.01	249	4	Start transit towyo to Station 19. Stopped previous run. Started again with new tapes and filenames.
40	20 to 19	9/7	9/7	1822	1422			302	84	B2501422	250		167	168		249	4	Changed DAT tape, VPR tapes and Acoustic filename
40	20 to 19	9/7	9/7	2024	1624	67 23.569	69 44.974		85	B2501624	250		169	170		249	4	Changed DAT tape, VPR tapes and Acoustic filename
40	19	9/7	9/7	2152	1752	67 28.099	69 31.437	435	85	B2501624	250	B2500656	169	170	09071618.01	249	4	Arrived at Station 19.
41	19 to 18	9/8	9/8	0747	0347	67 26.702	69 32.769	580	86	B2510345	251	B2510340	171	172	09080743.01	250		Launched fish in transit to station 18.
41	19 to 18	9/8	9/8	0949	0549	67 17.162	69 28.733	430	87	B2510549	251		173	174	09080743.01	250	along Adelaide	Changed DAT tape, VPR tapes and Acoustic filename
41	19 to 18	9/8	9/8	1153	0753	67 08.807	69 19.211	471	88	B2510753	251		175	176		250	along Adelaide	Changed DAT tape, VPR tapes and Acoustic filename
41	19 to 18	9/8	9/8	1355	0955	67 03.171	69 09.251	380	**	B2510955	251		177	178		250	along Adelaide	DAT tape 87 has been written over for ~0.5h.
41	18	9/8	9/8	1430	1030	67 02.738	69 08.555		89	B2511034	251	B2511030	179	180	09081435.01	250		New files for CTD station
41	18 to 17	9/8	9/8	1605	1205	67 02.870	69 08.721	516	90	B2511204	251	B2511030	181	182		250		Started tapes and files again for transit to Station 17 - Still Deployment 41
41	18 to 17	9/8	9/8	1802	1402	66 58.111	69 27.469	543	91	B2511402	251		183	184		250		Changed DAT tape, VPR tapes and Acoustic filename
41	17	9/8	9/8	1831	1431	66 56.634	69 30.294	516	91	B2511402	251	B2511030	183	184	09081605.01	250		Retrieved at Station 17

42	17 to 9	9/9	9/9	0508	0108	67 0.659	69 30.850	518	92	B2520105	252	B2520100	185	186	09090501.01	251		BMP launched
42	17 to 9	9/9	9/9	0710	0310	66 53.697	69 28.895	438	93	B2520309	252	B2520100	187	188		251		Changed DAT tape, VPR tapes and Acoustic filename
42	17 to 9	9/9	9/9	0912	0512	66 47.809	69 15.476	261	94	B2520512	252	B2520100	189	190		251		Changed DAT tape, VPR tapes and Acoustic filename
42	17 to 9	9/9	9/9	1114	0714	66 42.749	68 59.417	256	95	B2520714	252	B2520100	191	192		251	along Adelaide	Changed DAT tape, VPR tapes and Acoustic filename
42	17 to 9	9/9	9/9	1213	0813	66 40.569	68 53.792		95	B2520714	252	B2520100	191	192	09090501.01	251	along Adelaide	End of towyo -- bringing fish aboard
43	8 to 5	9/9	9/9	1905	1505	66 48.639	68 26.475	149	96	B2521523	252	B2521505	193	194	09091921.01	251		Start towyo from Station 8 to Station 5
43	8 to 5	9/9	9/9	2126	1726	66 40.706	68 34.344	434	97	B2521726	252		195	196		251		Changed DAT tape, VPR tapes and Acoustic filename
43	8 to 5	9/9	9/9	2329	1929	66 31.333	68 29.606	558	98	B2521929	252		197	198		251		Changed DAT tape, VPR tapes and Acoustic filename
43	5	9/10	9/9	0121	2121	66 28.853	68 22.783	558	98	B2521929	252	B2521505	197	198	09091921.01	252		Retrieval for station activity
44	RI-1	9/11	9/11	0916	0516	65 11.056	65 34.721	622	99	B2540521	254	B2540514	199	200	09110915.01	253		Renaud Island 24-hour station - Deployment #1 - Holding at 17m.
44	RI-1	9/11	9/11	1030	0630	65 11.154	65 34.243	556	99	B2540521	254	B2540514	199	200	09110915.01	253		BMP out, MOCNESS in.
45	RI-2	9/11	9/11	1515	1115	65 10.092	65 35.813	722	100	B2541139	254	B2541115	201	202	09111614.01	253		Start CTD series II -Started ESS on deck - fish in H2O at 1131 or so.
45	RI-2	9/11	9/11	1611	1211				100	B2541212	254	B2541115	201	202	09111614.01	253		Deploy after seawater switch repair
45	RI-2	9/11	9/11	1710	1310	65 09.80	65 34.57	715	100	B2541212	254	B2541115	201	202	09111614.01	253		Retrieve - dock in crate
46	RI	9/11	9/11	1826	1426	65 09.525	65 34.057	550	101	C2541426	254	B2541417	None	None	None	253		Start Calibration run.
46	RI	9/11	9/11	1911	1511	65 09.453	65 33.894	550	101	C2541511	254	B2541417	None	None	None	253		Change acoustics filename
46	RI	9/11	9/11	2011	1611	65 09.280	65 33.407	580	101	C2541511	254	B2541417	None	None	None	253		Retrieval - end calibration

47	RI-3	9/11	9/11	2104	1704	65 09.107	65 32.867	576	102	S2541702	254	B2541657	203	204	09112106.01	253		Deploy Series #3
47	RI-3	9/11	9/11	2320	1920	65 08.815	65 31.743	570	102	S2541702	254	B2541657	203	204	09112106.01	253		Retrieve for MOC1 tow
48	RI-4	9/12	9/11	0235	2235	65 07.942	65 30.597	537	103	S2542238	254	B2542236	205	206	09120238.01	254		Start fourth CTD series of casts
48	RI-4	9/12	9/12	0414	0014	65 07.614	65 30.566	576	103	S2542238	255	B2542236	205	206	09120238.01	254		Deployment ends - CTD out of water - BMP out of water
49	RI-5	9/12	9/12	0630	0230	65 07.381	65 30.186	542	104	S25500226	255	B2550223	207	208	09120634.01	254		Deployed BMP - fifth and last CTD series at this station
49	RI-5	9/12	9/12	0806	0406	65 07.411	65 30.021	549	104	S25500226	255	B2550223	207	208	09120634.01	254		BMP recovered and stowed
50	Palmer	9/12	9/12	1746	1346	65 46.243	65 03.283	30	105	C2551351	255	B2551449	None	None	None	254		Calibration in the quiet water off Palmer Station
50	Palmer	9/12	9/12	1850	1450	65 46.243	65 3.292	30	105	C2551351	255	B2551449	None	None	None	254		Calibration ends

APPENDIX 9. Microzooplankton sample log for NBP02-04.

CTD Cast #	Sta #	Grid location	Latitude (S)		Longitude (W)		Local Depth (m)	Sample Depth (m)	Concentration Obs.		Speed	Diameter	NGDR
			D	M	D	M			Estim.				
1	Matha	515.090	66	31.37	67	16.15	685	0	13.33	19.18	0.035	16.53	0.878
1	Matha	515.090	66	31.37	67	16.15	685	50	19.69	28.33	0.030	17.77	0.946
1	Matha	515.090	66	31.37	67	16.15	685	100	20.01	28.79	0.011	15.82	0.709
1	Matha	515.090	66	31.37	67	16.15	685	300	15.55	22.37	0.046	16.45	0.539
2	CS1	514.095	66	30.31	67	22.64	230	5	8.55	12.30	0.035	15.65	0.870
2	CS1	514.095	66	30.31	67	22.64	230	100	17.92	25.78	0.033	15.49	0.951
2	CS1	514.095	66	30.31	67	22.64	230	138	14.34	20.63	0.017	15.33	0.713
2	CS1	514.095	66	30.31	67	22.64	230	220	9.63	13.86	0.060	14.40	0.856
3	CS2	509.097	66	31.89	67	28.73	575	0	8.85	12.73	0.087	17.04	0.964
3	CS2	509.097	66	31.89	67	28.73	575	50	17.55	25.25	0.049	15.06	0.938
3	CS2	509.097	66	31.89	67	28.73	575	100	12.81	18.43	0.105	19.43	0.978
3	CS2	509.097	66	31.89	67	28.73	575	560	8.91	12.82	0.061	16.14	0.983
4	CS3	504.097	66	34.12	67	32.67	207	0	32.92	47.36	0.091	17.69	0.992
4	CS3	504.097	66	34.12	67	32.67	207	50	34.49	49.62	0.060	16.35	0.978
4	CS3	504.097	66	34.12	67	32.67	207	100	31.22	44.92	0.060	17.72	0.826
4	CS3	504.097	66	34.12	67	32.67	207	207	20.48	29.47	0.062	16.94	0.924
5	CS7	503.074	66	41.68	67	7.50	232	0	21.24	30.56	0.073	18.18	0.972
5	CS7	503.074	66	41.68	67	7.50	232	75	11.31	16.27	0.032	21.49	0.957
5	CS7	503.074	66	41.68	67	7.50	232	100	27.77	39.95	0.042	18.05	0.717
5	CS7	503.074	66	41.68	67	7.50	232	218	31.65	45.54	0.033	17.26	0.941
6	CS6	506.083	66	37.86	67	15.62	580	0	25.61	36.85	0.020	17.32	0.860
6	CS6	506.083	66	37.86	67	15.62	580	75	43.77	62.97	0.020	17.51	0.697
6	CS6	506.083	66	37.86	67	15.62	580	100	21.72	31.25	0.019	17.18	0.906
6	CS6	506.083	66	37.86	67	15.62	580	556	12.61	18.14	0.046	14.55	0.980
7	CS5	505.093	66	35.02	67	27.83	876	0	10.41	14.98	0.014	15.64	0.954
7	CS5	505.093	66	35.02	67	27.83	876	75	32.85	47.26	0.020	15.36	0.576
7	CS5	505.093	66	35.02	67	27.83	876	300	15.48	22.27	0.017	16.08	0.939
7	CS5	505.093	66	35.02	67	27.83	876	600	9.70	13.96	0.015	17.69	0.977
8	CS4	506.103	66	31.73	67	38.15	237	0	12.74	18.33	0.016	17.92	0.971
8	CS4	506.103	66	31.73	67	38.15	237	50	13.62	19.60	0.020	17.43	0.935
8	CS4	506.103	66	31.73	67	38.15	237	75	20.59	29.62	0.023	16.89	0.798
8	CS4	506.103	66	31.73	67	38.15	237	198	5.69	8.19	0.025	16.17	0.939
10	T1		67	11.32	70	39.09	507	0	24.86	16.63	0.019	17.19	0.991
10	T1		67	11.32	70	39.09	507	50	11.80	36.51	0.028	16.27	0.965
10	T1		67	11.32	70	39.09	507	470	11.80	7.90	0.011	15.29	0.938
10	T1		67	11.32	70	39.09	507	75	24.80	7.72	0.022	20.33	0.771
11	75	101.255	68	40.30	76	10.14	428	0	39.10	12.17	0.028	19.12	0.931
11	75	101.255	68	40.30	76	10.14	428	100	19.50	6.07	0.028	19.35	0.922
11	75	101.255	68	40.30	76	10.14	428	190	6.40	4.28	0.035	18.39	0.960
11	75	101.255	68	40.30	76	10.14	428	405	11.68	7.81	0.021	16.41	0.966
13	76	101.220	68	44.92	75	41.73	467	0	26.88	17.98	0.023	16.55	0.929
13	76	101.220	68	44.92	75	41.73	467	100	6.36	4.26	0.011	15.91	0.952
13	76	101.220	68	44.92	75	41.73	467	150	14.71	4.58	0.024	17.09	0.778
13	76	101.220	68	44.92	75	41.73	467	300	38.73	12.05	0.022	15.62	0.865
15	77	101.180	68	52.51	75	7.15	501	0	5.76	5.65	0.024	20.02	0.986
15	77	101.180	68	52.51	75	7.15	501	50	10.81	10.61	0.022	16.03	0.971
15	77	101.180	68	52.51	75	7.15	501	100	9.01	6.03	0.016	16.89	0.993
15	77	101.180	68	52.51	75	7.15	501	200	43.69	13.59	0.023	17.21	0.884
17	17-81(-80)	61.180	69	3.09	75	37.81	365	0	28.34	8.82	0.023	22.53	0.646
17	17-81(-80)	61.180	69	3.09	75	37.81	365	100	35.66	12.93	0.017	17.47	0.972
17	17-81(-80)	61.180	69	3.09	75	37.81	365	200	14.85	4.62	0.032	17.41	0.908
17	17-81(-80)	61.180	69	3.09	75	37.81	365	300	9.12	6.10	0.018	21.57	0.964
19	81	61.120	69	0.19	76	18.72	410	0	6.91	4.62	0.018	23.37	0.932
19	81	61.120	69	0.19	76	18.72	410	75	12.87	8.61	0.011	17.90	0.985
19	81	61.120	69	0.19	76	18.72	410	150	17.11	11.45	0.015	17.82	0.918
19	81	61.120	69	0.19	76	18.72	410	315	10.78	7.21	0.034	16.96	0.957
20	82	61.255	68	45.28	76	42.31	425	0	10.08	4.60	0.017	21.81	0.768
20	82	61.255	68	45.28	76	42.31	425	150	17.15	7.83	0.015	18.56	0.905
20	82	61.255	68	45.28	76	42.31	425	300	23.61	7.35	0.023	22.90	0.566
20	82	61.255	68	45.28	76	42.31	425	365	17.95	5.59	0.051	21.17	0.979
21	75	101.255	68	31.30	76	17.37	1180	0	37.35	13.54	0.014	22.57	0.468

21	75	101.255	68	31.30	76	17.37	1180	100	31.16	14.22	0.019	17.98	0.804
21	75	101.255	68	31.30	76	17.37	1180	200	12.81	8.57	0.011	18.28	0.804
21	75	101.255	68	31.30	76	17.37	1180	1172	13.45	9.00	0.017	20.26	0.906
23	74	141.255	68	16.43	75	38.31	1695	0	42.26	16.54	0.016	18.71	0.544
23	74	141.255	68	16.43	75	38.31	1695	75	14.42	5.65	0.021	17.50	0.976
23	74	141.255	68	16.43	75	38.31	1695	150	10.37	4.06	0.023	14.94	0.969
23	74	141.255	68	16.43	75	38.31	1695	400	25.99	10.17	0.021	15.54	0.974
23	74	141.255	68	16.43	75	38.31	1695	1685	24.87	9.74	0.025	18.05	0.934
25	73	141.220	68	27.83	75	0.86	431	0	7.39	4.24	0.029	23.59	0.440
25	73	141.220	68	27.83	75	0.86	431	100	7.97	3.64	0.024	19.72	0.888
25	73	141.220	68	27.83	75	0.86	431	200	11.57	5.28	0.030	16.01	0.852
25	73	141.220	68	27.83	75	0.86	431	409	14.99	6.84	0.029	19.69	0.866
28	72	141.180	68	35.25	74	4.26	682	0	38.51	11.98	0.020	21.52	0.859
28	72	141.180	68	35.25	74	4.26	682	100	5.65	3.78	0.014	15.77	0.855
28	72	141.180	68	35.25	74	4.26	682	350	12.08	5.51	0.015	17.04	0.984
28	72	141.180	68	35.25	74	4.26	682	667	21.24	9.69	0.018	16.92	0.812
30	65	181.241	68	5.10	74	41.93	404	0	14.14	5.13	0.001	18.65	0.711
30	65	181.241	68	5.10	74	41.93	404	100	16.37	7.47	0.021	17.02	0.832
30	65	181.241	68	5.10	74	41.93	404	220	51.90	29.80	0.013	16.86	0.929
30	65	181.241	68	5.10	74	41.93	404	270	41.68	12.97	0.018	20.52	0.775
30	65	181.241	68	5.10	74	41.93	404	390	14.71	4.58	0.012	22.86	0.938
31	41-42	301.180	67	32.77	71	35.28	454	0	38.37	11.94	0.016	19.08	0.937
31	41-42	301.180	67	32.77	71	35.28	454	75	7.00	4.68	0.033	23.25	0.987
31	41-42	301.180	67	32.77	71	35.28	454	310	5.82	5.71	0.022	16.92	0.984
31	41-42	301.180	67	32.77	71	35.28	454	433	11.18	10.97	0.024	18.09	0.816
33	43	301.220	67	13.01	72	28.08	413	0	30.00	13.69	0.016	17.36	0.642
33	43	301.220	67	13.01	72	28.08	413	90	13.63	6.22	0.013	15.87	0.654
33	43	301.220	67	13.01	72	28.08	413	200	12.00	5.48	0.018	19.17	0.775
33	43	301.220	67	13.01	72	28.08	413	392	8.96	4.09	0.014	18.11	0.911
33	43	301.220	67	13.01	72	28.08	413	300	13.05	4.73	0.022	16.57	0.942
34	44	301.265	66	59.25	73	23.97	3410	0	4.89	1.77	0.006	23.02	0.762
34	44	301.265	66	59.25	73	23.97	3410	150	15.08	5.47	0.019	18.29	0.966
34	44	301.265	66	59.25	73	23.97	3410	250	4.19	1.91	0.011	18.87	0.778
34	44	301.265	66	59.25	73	23.97	3410	2000	7.91	3.61	0.007	18.14	0.978
35	45	261.295	67	12.68	74	29.37	2971	0	24.33	11.10	0.011	14.77	0.730
35	45	261.295	67	12.68	74	29.37	2971	0	19.29	8.80	0.016	19.94	0.928
35	45	261.295	67	12.68	74	29.37	2971	0	18.17	8.29	0.019	17.95	0.823
35	45	261.295	67	12.68	74	29.37	2971	100	5.92	8.52	0.045	19.40	0.804
35	45	261.295	67	12.68	74	29.37	2971	290	14.06	9.41	0.022	16.24	0.973
35	45	261.295	67	12.68	74	29.37	2971	2000	6.61	2.40	0.017	16.78	0.959
37	46	261.255	67	27.41	73	48.01	444	0	21.81	7.91	0.018	19.53	0.546
37	46	261.255	67	27.41	73	48.01	444	120	14.63	5.31	0.017	20.76	0.916
37	46	261.255	67	27.41	73	48.01	444	250	5.59	2.03	0.022	18.02	0.933
37	46	261.255	67	27.41	73	48.01	444	425	34.39	10.70	0.022	17.21	0.960
39	64	221.295	67	31.01	75	5.48	2933	0	24.24	11.06	0.010	17.53	0.769
39	64	221.295	67	31.01	75	5.48	2933	150	12.08	5.51	0.012	17.42	0.779
39	64	221.295	67	31.01	75	5.48	2933	250	12.59	5.74	0.013	18.40	0.968
39	64	221.295	67	31.01	75	5.48	2933	2923	5.98	2.17	0.029	19.14	0.846
40	63	221.265	67	40.49	74	35.00	2552	0	11.14	5.08	0.020	15.38	0.755
40	63	221.265	67	40.49	74	35.00	2552	47	9.65	4.40	0.017	16.09	0.916
40	63	221.265	67	40.49	74	35.00	2552	297	3.98	1.24	0.014	17.86	0.970
40	63	221.265	67	40.49	74	35.00	2552	2532	5.71	2.61	0.040	17.86	0.995
41	62	220.242	67	49.07	74	10.60	1091	0	26.53	12.11	0.013	19.79	0.623
41	62	220.242	67	49.07	74	10.60	1091	100	7.69	3.51	0.024	19.84	0.872
41	62	220.242	67	49.07	74	10.60	1091	300	9.75	4.45	0.046	18.57	0.997
41	62	220.242	67	49.07	74	10.60	1091	1085	3.76	1.36	0.022	27.56	0.972
43	48	261.180	67	53.65	72	14.19	303	0	24.64	11.24	0.023	17.59	0.520
43	48	261.180	67	53.65	72	14.19	303	60	12.54	5.72	0.009	16.17	0.544
43	48	261.180	67	53.65	72	14.19	303	75	17.51	7.99	0.022	16.09	0.867
43	48	261.180	67	53.65	72	14.19	303	250	4.39	2.00	0.014	22.63	0.884
43	48	261.180	67	53.65	72	14.19	303	291	4.67	2.13	0.024	18.71	0.954
45	49	261.140	68	4.47	71	35.92	431	0	20.47	13.70	0.027	15.60	0.992
45	49	261.140	68	4.47	71	35.92	431	100	10.92	3.40	0.011	16.91	0.960
45	49	261.140	68	4.47	71	35.92	431	300	3.39	1.55	0.022	19.39	0.983
45	49	261.140	68	4.47	71	35.92	431	429	9.35	2.91	0.031	20.28	0.996
47	40	301.100	68	2.00	70	23.76	863	0	21.45	9.79	0.006	15.11	0.698
47	40	301.100	68	2.00	70	23.76	863	90	14.55	6.64	0.039	17.36	0.919

47	40	301.100	68	2.00	70	23.76	863	250	27.65	12.62	0.021	16.19	0.827
47	40	301.100	68	2.00	70	23.76	863	400	5.35	2.44	0.005	17.90	0.983
47	40	301.100	68	2.00	70	23.76	863	830	8.08	2.93	0.021	17.59	0.971
49	41	301.140	67	49.81	71	14.34	380	0	7.70	3.51	0.035	17.71	0.911
49	41	301.140	67	49.81	71	14.34	380	50	16.08	5.83	0.013	17.40	0.953
49	41	301.140	67	49.81	71	14.34	380	300	16.02	7.31	0.016	15.69	0.807
49	41	301.140	67	49.81	71	14.34	380	361	12.65	5.77	0.016	17.84	0.809
51	26	341.220	67	7.45	72	0.21	425	0	10.04	3.12	0.012	15.94	0.254
51	26	341.220	67	7.45	72	0.21	425	75	12.13	4.40	0.012	17.10	0.855
51	26	341.220	67	7.45	72	0.21	425	405	16.62	7.58	0.027	16.66	0.960
	26							UIW	49.33	27.12	0.020	16.32	0.828
57	4	501.180	66	9.40	69	6.32	347	0	16.57	5.16	0.010	19.58	0.415
57	4	501.180	66	9.40	69	6.32	347	75	19.84	7.19	0.013	15.65	0.538
57	4	501.180	66	9.40	69	6.32	347	150	5.49	1.99	0.032	19.82	0.990
57	4	501.180	66	9.40	69	6.32	347	317	13.09	4.75	0.015	17.40	0.948
59	3	501.220	65	57.19	69	49.09	345	0	5.55	2.01	0.010	19.34	0.834
59	3	501.220	65	57.19	69	49.09	345	50	9.93	3.60	0.023	25.72	0.914
59	3	501.220	65	57.19	69	49.09	345	199	6.53	2.37	0.024	18.47	0.823
59	3	501.220	65	57.19	69	49.09	345	342	22.86	8.29	0.015	16.68	0.928
60	2	500.251	65	47.23	70	17.79	748	0	8.40	3.05	0.007	23.97	0.837
60	2	500.251	65	47.23	70	17.79	748	100	9.88	3.58	0.024	18.65	0.897
60	2	500.251	65	47.23	70	17.79	748	500	7.87	2.85	0.028	17.11	0.854
60	2	500.251	65	47.23	70	17.79	748	804	3.77	1.37	0.015	20.40	0.974
62	1	507.271	65	37.22	70	36.58	3225	0	11.86	4.30	0.017	17.77	0.409
62	1	507.271	65	37.22	70	36.58	3225	50	17.69	5.50	0.025	19.08	0.631
62	1	507.271	65	37.22	70	36.58	3225	600	7.24	2.25	0.022	19.37	0.985
62	1	507.271	65	37.22	70	36.58	3225	3211	9.09	3.30	0.055	26.51	0.981
63	13	459.265	66	0.45	71	8.71	2944	0	17.37	6.30	0.041	26.14	0.997
63	13	459.265	66	0.45	71	8.71	2944	100	6.22	2.26	0.034	24.16	0.994
63	13	459.265	66	0.45	71	8.71	2944	316	12.75	3.97	0.009	14.56	0.747
63	13	459.265	66	0.45	71	8.71	2944	2934	22.09	8.01	0.018	17.30	0.958
64	12	460.250	66	5.39	70	51.96	899	0	19.03	5.92	0.018	22.83	0.950
64	12	460.250	66	5.39	70	51.96	899	100	10.56	3.29	0.022	20.78	0.987
64	12	460.250	66	5.39	70	51.96	899	270	9.61	2.99	0.011	15.01	0.890
64	12	460.250	66	5.39	70	51.96	899	895	9.26	4.23	0.031	22.71	0.994
66	11	461.220	66	13.61	70	23.70	467	0	13.79	6.29	0.011	27.51	0.762
66	11	461.220	66	13.61	70	23.70	467	30	6.43	2.93	0.029	18.82	0.987
66	11	461.220	66	13.61	70	23.70	467	75	8.64	3.13	0.019	23.36	0.988
66	11	461.220	66	13.61	70	23.70	467	446	22.65	8.21	0.032	19.25	0.969
68	10	461.180	66	27.20	69	37.25	503	0	29.55	10.72	0.011	20.79	0.722
68	10	461.180	66	27.20	69	37.25	503	75	16.93	6.14	0.013	17.38	0.933
68	10	461.180	66	27.20	69	37.25	503	300	10.31	3.74	0.045	31.83	0.977
68	10	461.180	66	27.20	69	37.25	503	484	17.71	5.51	0.031	20.87	0.994
74	16	421.180	66	44.80	70	10.29	519	0	10.12	3.67	0.016	23.39	0.967
74	16	421.180	66	44.80	70	10.29	519	75	6.83	2.48	0.020	16.83	0.952
74	16	421.180	66	44.80	70	10.29	519	200	13.59	4.23	0.026	21.73	0.989
74	16	421.180	66	44.80	70	10.29	519	400	11.76	4.26	0.025	15.79	0.963
74	16	421.180	66	44.80	70	10.29	519	500	23.70	10.81	0.034	19.88	0.991
	16							UIW	23.57	23.13	0.014	17.96	0.930
76	15	421.225	66	30.83	70	57.50	543	0	7.93	3.62	0.013	16.16	0.244
76	15	421.225	66	30.83	70	57.50	543	75	5.24	1.90	0.016	21.72	0.844
76	15	421.225	66	30.83	70	57.50	543	250	9.42	3.42	0.025	20.96	0.994
76	15	421.225	66	30.83	70	57.50	543	285	22.12	8.66	0.031	18.97	0.989
76	15	421.225	66	30.83	70	57.50	543	532	6.13	1.91	0.023	21.12	0.996
	14							UIW	18.74	18.39	0.011	19.96	0.934
81	14	420.247	66	23.53	71	21.37	871	0	13.84	5.02	0.019	17.78	0.707
81	14	420.247	66	23.53	71	21.37	871	30	10.66	3.87	0.019	15.37	0.947
81	14	420.247	66	23.53	71	21.37	871	150	12.44	4.51	0.028	19.18	0.963
81	14	420.247	66	23.53	71	21.37	871	337	10.45	3.79	0.034	17.21	0.977
81	14	420.247	66	23.53	71	21.37	871	866	11.63	4.22	0.023	24.48	0.838
83	23	381.264	66	40.79	71	59.19	1767	0	14.94	5.42	0.023	18.65	0.736
83	23	381.264	66	40.79	71	59.19	1767	100	24.67	8.95	0.028	17.84	0.768
83	23	381.264	66	40.79	71	59.19	1767	250	10.71	3.88	0.021	19.42	0.747
83	23	381.264	66	40.79	71	59.19	1767	1757	9.85	3.57	0.021	18.74	0.980
85	22	381.220	66	49.26	71	25.72	478	0	29.50	10.70	0.014	15.38	0.823
85	22	381.220	66	49.26	71	25.72	478	75	31.21	14.24	0.016	15.90	0.866
85	22	381.220	66	49.26	71	25.72	478	250	11.36	5.18	0.014	16.88	0.996

85	22	381.220	66	49.26	71	25.72	478	460	14.51	8.33	0.027	16.18	0.989
87	21	381.180	67	2.29	70	42.03	504	0	7.78	2.82	0.011	20.71	0.844
87	21	381.180	67	2.29	70	42.03	504	75	25.84	9.37	0.022	19.72	0.978
87	21	381.180	67	2.29	70	42.03	504	200	10.34	3.75	0.059	25.14	0.989
87	21	381.180	67	2.29	70	42.03	504	484	15.61	5.66	0.018	17.72	0.975
91	20A		67	12.41	70	16.40	663	0	43.04	15.61	0.016	18.92	0.649
91	20A		67	12.41	70	16.40	663	90	14.33	5.20	0.034	17.80	0.878
91	20A		67	12.41	70	16.40	663	264	18.20	6.60	0.041	22.48	0.989
91	20A		67	12.41	70	16.40	663	641	10.46	7.00	0.027	18.08	0.946
91	20A		67	12.41	70	16.40	663	180	4.26	1.94	0.006	26.13	0.607
93	19	373.110	67	28.38	69	30.93	390	0	7.52	3.43	0.009	18.27	0.780
93	19	373.110	67	28.38	69	30.93	390	100	14.40	5.22	0.019	17.50	0.919
93	19	373.110	67	28.38	69	30.93	390	150	20.56	7.46	0.024	17.39	0.971
93	19	373.110	67	28.38	69	30.93	390	300	11.49	5.24	0.026	20.61	0.987
93	19	373.110	67	28.38	69	30.93	390	383	13.44	6.13	0.042	18.58	0.995
95	18	421.125	67	2.89	69	8.61	427	0	21.98	10.03	0.006	17.23	0.677
95	18	421.125	67	2.89	69	8.61	427	100	15.58	5.65	0.024	18.61	0.992
95	18	421.125	67	2.89	69	8.61	427	250	20.30	7.36	0.024	17.19	0.969
95	18	421.125	67	2.89	69	8.61	427	415	19.84	9.05	0.025	16.65	0.969
	18							UIW	20.96	7.41	0.089	15.44	0.889
97	17	421.145	66	59.97	69	30.18	512	0	11.18	4.05	0.015	18.43	0.786
97	17	421.145	66	59.97	69	30.18	512	75	10.23	3.71	0.041	18.25	0.923
97	17	421.145	66	59.97	69	30.18	512	200	8.25	2.99	0.021	17.36	0.971
97	17	421.145	66	59.97	69	30.18	512	496	19.21	6.97	0.035	21.51	0.935
99	9	461.140	66	40.85	68	54.52	328	0	10.84	3.93	0.012	18.95	0.836
99	9	461.140	66	40.85	68	54.52	328	75	19.71	7.15	0.016	17.36	0.974
99	9	461.140	66	40.85	68	54.52	328	240	11.72	5.35	0.025	14.98	0.989
99	9	461.140	66	40.85	68	54.52	328	311	25.98	11.85	0.017	16.87	0.955
101	8	460.115	66	48.74	68	26.25	73	0	8.81	4.02	0.009	14.36	0.854
101	8	460.115	66	48.74	68	26.25	73	5	14.55	5.28	0.026	21.37	0.968
101	8	460.115	66	48.74	68	26.25	73	65	29.19	13.32	0.017	17.89	0.945
103	5	501.140	66	25.82	68	24.69	675	0	11.93	5.44	0.025	22.63	0.983
103	5	501.140	66	25.82	68	24.69	675	100	5.66	2.58	0.022	18.68	0.966
103	5	501.140	66	25.82	68	24.69	675	350	6.83	3.12	0.016	15.23	0.968
103	5	501.140	66	25.82	68	24.69	675	650	23.35	10.65	0.022	16.06	0.987
107	RI2		65	9.87	65	35.39	723	0	66.94	24.28	0.012	17.63	0.524
107	RI2		65	9.87	65	35.39	723	50	34.01	12.33	0.029	17.25	0.984
107	RI2		65	9.87	65	35.39	723	250	24.12	16.14	0.025	16.51	0.981
107	RI2		65	9.87	65	35.39	723	730	28.62	28.08	0.027	17.60	0.987
	RI2							UIW	50.00	105.49	0.018	17.03	0.544
116	RI5		65	7.41	65	30.07	536	0	47.78	21.80	0.016	17.47	0.463
116	RI5		65	7.41	65	30.07	536	75	18.38	8.39	0.012	15.92	0.832
116	RI5		65	7.41	65	30.07	536	200	26.44	12.06	0.023	17.53	0.968
116	RI5		65	7.41	65	30.07	536	500	44.02	15.96	0.021	16.21	0.895
118	GS1		64	43.00	63	1.64	372	0	31.17	14.22	0.011	19.46	0.798
118	GS1		64	43.00	63	1.64	372	40	11.49	5.24	0.010	17.16	0.808
118	GS1		64	43.00	63	1.64	372	100	29.19	13.32	0.025	16.78	0.989
118	GS1		64	43.00	63	1.64	372	325	18.30	12.24	0.027	17.64	0.991
120	GS2		64	34.70	62	39.50	759	0	9.98	4.55	0.042	20.13	0.979
120	GS2		64	34.70	62	39.50	759	220	6.27	2.86	0.010	20.25	0.944
120	GS2		64	34.70	62	39.50	759	300	25.19	7.84	0.029	18.22	0.897
120	GS2		64	34.70	62	39.50	759	730	22.23	10.14	0.031	19.56	0.979
123	GS3		64	28.10	62	14.02	662	0	16.54	7.55	0.061	24.13	0.990
123	GS3		64	28.10	62	14.02	662	270	26.73	12.20	0.028	19.59	0.982
123	GS3		64	28.10	62	14.02	662	657	13.18	6.01	0.051	19.74	0.995
127	GS4		64	18.61	61	56.56	1055	0	30.66	15.10	0.030	17.04	0.405
127	GS4		64	18.61	61	56.56	1055	70	27.19	8.46	0.024	16.02	0.864
127	GS4		64	18.61	61	56.56	1055	470	18.33	6.65	0.048	23.35	0.987
127	GS4		64	18.61	61	56.56	1055	1048	17.12	7.81	0.049	23.55	0.994
129	GS5		64	10.02	61	52.03	718	0	11.10	4.03	0.054	21.17	0.997
129	GS5		64	10.02	61	52.03	718	240	28.05	10.17	0.052	20.76	0.985
129	GS5		64	10.02	61	52.03	718	695	15.26	5.53	0.034	17.98	0.989
130	GS6		64	0.38	61	45.24	1204	0	48.85	28.04	0.030	19.37	0.551
130	GS6		64	0.38	61	45.24	1204	320	21.34	7.74	0.048	19.48	0.982
130	GS6		64	0.38	61	45.24	1204	500	35.41	12.84	0.023	18.64	0.908
130	GS6		64	0.38	61	45.24	1204	1150	37.31	13.53	0.019	16.88	0.832

APPENDIX 10. Simrad acoustics data log for NBP02-04.

eventno	Instr	cast#	s/e	Depth (m)	Decimal Time
nbp21202.002	BMP	1	s	40	212.9257
nbp21202.003	BMP	1	e	30	212.9479
nbp21202.004	BMP	2	s	30	212.959
nbp21202.005	BMP	2	e	30	212.9826
nbp21202.006	BMP	3	s	30	212.9882
nbp21202.007	BMP	3	e	30	213.0111
nbp21702.003	CTD	1	s	500	217.8007
nbp21702.005	CTD	1	e	500	217.8111
nbp21702.007	BMP	4	s	3	217.8736
nbp21702.008	BMP	4	e	3	217.991
nbp21702.009	CTD	2	s	220	218.1285
nbp21702.010	CTD	2	e	220	218.1528
nbp21802.001	CTD	3	s	560	218.2111
nbp21802.002	CTD	3	e	560	218.241
nbp21802.003	CTD	4	s	207	218.3014
nbp21802.004	CTD	4	e	207	218.3194
nbp21802.015	Tucker	1	s		218.8993
nbp21802.016	Tucker	1	e		218.9361
nbp21802.017	Tucker	2	s		218.9424
nbp21802.018	Tucker	2	e		218.9583
nbp21902.001	CTD	5	s	218	219.1813
nbp21902.002	CTD	5	e	218	219.2014
nbp21902.003	CTD	6	s	556	219.2736
nbp21902.004	CTD	6	e	556	219.3021
nbp21902.005	CTD	7	s	849	219.3736
nbp21902.006	CTD	7	e	849	219.4132
nbp21902.007	CTD	8	s	223	219.4722
nbp21902.008	CTD	8	e	223	219.4931
nbp21902.014	MOC1	1	s	395	219.7403
nbp21902.015	MOC1	1	e	395	219.8319
nbp21902.017	MOC10	1	s		219.9681
nbp21902.018	MOC10	1	e		220.0625
nbp22102.009	CTD	9	s	200	221.6354
nbp22102.010	CTD	9	e	200	221.6389

nbp22102.011	CTD	10	s	470	221.6465
nbp22102.012	CTD	10	e	470	221.6736
nbp22302.006	CTD	11	s	405	223.8722
nbp22302.007	CTD	11	e	405	223.8979
nbp22302.008	BMP	5	s	3	223.9222
nbp22302.009	BMP	5	e	3	223.9868
nbp22302.010	MOC10	2	s	350	224.0382
nbp22302.011	MOC10	2	e	350	224.1146
nbp22302.012	Tucker	3	s	100	224.15
nbp22402.001	Tucker	3	e	100	224.1875
nbp22402.002	BMP	6	s	105	224.2083
nbp22402.003	BMP	6	e	105	224.2326
nbp22402.004	CTD	12	s	200	224.3521
nbp22402.005	CTD	12	e	200	224.359
nbp22402.006	CTD	13	s	458	224.3618
nbp22402.007	CTD	13	e	458	224.3938
nbp22402.012	BMP	7	s		224.7542
nbp22402.014	BMP	7	e		224.8438
nbp22402.015	CTD	14	s	200	224.8632
nbp22402.017	CTD	14	e	200	224.875
nbp22402.018	CTD	15	s	476	224.8764
nbp22402.019	CTD	15	e	476	224.9021
nbp22402.024	MOC1	2	s		225.0292
nbp22402.025	MOC1	2	e		225.0736
nbp22502.001	CTD	16	s	290	225.5028
nbp22502.002	CTD	16	e	290	225.5069
nbp22502.003	CTD	17	s	345	225.5097
nbp22502.004	CTD	17	e	345	225.5333
nbp22502.008	BMP	8	s	100	225.5542
nbp22502.009	BMP	8	e	100	225.5972
nbp22502.010	Tucker	4	s	75	225.6271
nbp22502.011	Tucker	4	e	75	225.6424
nbp22502.012	Tucker	5	s	250	225.6479
nbp22502.013	Tucker	5	e	250	225.6701
nbp22502.016	CTD	18	s	200	225.8528

nbp22502.017	CTD	18	e	200	225.8611
nbp22502.018	CTD	19	s	395	225.8625
nbp22502.019	CTD	19	e	395	225.8847
nbp22502.020	Tucker	6	s		225.9174
nbp22502.021	Tucker	6	s		225.9347
nbp22602.001	MOC1	3	s	260	226.316
nbp22602.002	MOC1	3	e		226.3472
nbp22602.007	CTD	20	s		226.4847
nbp22602.008	CTD	20	e		226.5333
nbp22602.011	CTD	21	s	1172	226.6896
nbp22602.012	CTD	21	e	1172	226.7347
nbp22602.013	Tucker	7	s		226.7569
nbp22602.014	Tucker	7	e		226.7896
nbp22602.017	CTD/FRRF	22	s	100	227.0097
nbp22602.018	CTD/FRRF	22	e	100	227.0146
nbp22602.019	CTD/CMiPS	23	s	1685	227.0264
nbp22602.020	CTD/CMiPS	23	e	1685	227.0951
nbp22602.021	Tucker	8	s		227.1104
nbp22602.022	Tucker	8	e		227.1313
nbp22702.001	CTD	24	s		227.3826
nbp22702.002	CTD	24	e		227.391
nbp22702.003	CTD	25	s		227.3931
nbp22702.004	CTD	25	e	409	227.4042
nbp22702.005	BMP	9	s	100	227.4479
nbp22702.006	BMP	9	e	100	227.4861
nbp22702.009	BMP	10	s	100	227.5778
nbp22702.010	BMP	10	e	100	227.691
nbp22702.012	CTD	26	s	100	227.8125
nbp22702.013	CTD	26	e	100	227.8222
nbp22702.014	CTD	27	s	1	227.8264
nbp22702.015	CTD	27	e	1	227.8299
nbp22702.016	CTD	28	s	667	227.8438
nbp22702.017	CTD	28	E	667	227.8806
nbp22702.019	Tucker	9	s	150	227.8986
nbp22702.020	Tucker	9	e	150	227.9326
nbp22702.021	MOC10	3	s	500	227.9583
nbp22702.022	MOC10	3	e	500	228.0382

nbp22802.003	MOC1	4	s		228.191
nbp22802.004	MOC1	4	e		228.2458
nbp22802.007	BMP	11	s		228.7243
nbp22802.009	BMP	11	e		228.8021
nbp22802.015	BMP	12	s		229.0167
nbp22802.016	BMP	12	e		229.0833
nbp22902.006	CTD	29	s	300	229.6201
nbp22902.007	CTD	29	e	300	229.6306
nbp22902.008	CTD	30	s	390	229.6326
nbp22902.009	CTD	30	e	390	229.6688
nbp22902.010	MOC1	5		375	229.6958
nbp22902.011	MOC1	5		0	229.7646
nbp22902.012	MOC10	4	s	350	229.8007
nbp22902.013	MOC10	4	e		229.841
nbp22902.014	Tucker	10	s	100	229.8653
nbp22902.015	Tucker	10	e	100	229.8868
nbp22902.017	BMP	13	s	150	229.8993
nbp22902.018	BMP	13	e	150	229.9583
nbp23102.005	CTD	31	s	433	231.5083
nbp23102.006	CTD	31	e	433	231.5431
nbp23102.008	MOC1	6	s	400	231.6028
nbp23102.009	MOC1	6	e		231.6569
nbp23102.010	Tucker	11	s	150	231.6778
nbp23102.011	Tucker	11	e	150	231.709
nbp23102.012	MOC10	5	s	400	231.7424
nbp23102.013	MOC10	5	e	400	231.791
nbp23102.016	BMP	14	s		231.8694
nbp23102.018	BMP	14	e		231.9583
nbp23202.006	CTD	32	s	200	232.6306
nbp23202.008	CTD	32	e	200	232.6403
nbp23202.009	CTD	33	s	392	232.6438
nbp23202.010	CTD	33	e	392	232.6819
nbp23202.011	BMP	15	s		232.8125
nbp23202.014	BMP	15	e		232.9951
nbp23202.015	Tucker	12	s	75	233.0215
nbp23202.016	Tucker	12	e	75	233.0326
nbp23202.017	MOC10	6	s	1000	233.0819

nbp23302.001	MOC10	6	e	1000	233.25
nbp23302.006	CTD	34	s	2000	233.616
nbp23302.008	CTD	34	e	2000	233.7014
nbp23302.010	BMP	16	s	250	233.7215
nbp23302.012	BMP	16	e		233.8965
nbp23302.016	CTD	35	s	2000	234.0403
nbp23302.017	CTD	35	e	2000	234.1104
nbp23302.018	Tucker	13	s	200	234.1257
nbp23302.019	Tucker	13	e	200	234.1465
nbp23302.020	Tucker	14	s	900	234.1618
nbp23402.001	Tucker	14	e	900	234.2271
nbp23402.002	MOC1	7	s		234.2514
nbp23402.003	MOC1	7	s		234.3653
nbp23402.006	BMP	17	s		234.4792
nbp23402.010	BMP	17	e	to 250	234.8299
nbp23402.012	CTD	36	s	100	234.8535
nbp23402.013	CTD	36	e	100	234.8667
nbp23402.014	CTD	37	s	425	234.8681
nbp23402.015	CTD	37	e	425	234.9028
nbp23402.016	Tucker	15	s	200	234.9215
nbp23402.017	Tucker	15	e	200	234.9382
nbp23402.018	Tucker	16	s	700	234.9479
nbp23402.019	Tucker	16	e	700	234.9979
nbp23402.020	Tucker	17	s	600	235.0028
nbp23402.021	Tucker	17	e	600	235.0465
nbp23402.022	BMP	18	S	~150	235.1257
nbp23502.004	BMP	18	s		235.4549
nbp23502.010	CTD	38	s	100	235.6396
nbp23502.011	CTD	38	e	100	235.6486
nbp23502.012	CTD	39	s	2923	235.6681
nbp23502.013	CTD	39	e	2923	235.7736
nbp23502.014	Tucker	18	s	500	235.7965
nbp23502.016	Tucker	18	e	500	235.8368
nbp23502.017	BMP	19	e	200	235.8542
nbp23502.020	BMP	19	e	200	236.0486
nbp23502.021	CTD	40	s	2532	236.075
nbp23502.022	CTD	40	e	2532	236.1604

nbp23602.001	BMP	20	s	200	236.1701
nbp23602.002	BMP	20	e		236.4368
nbp23602.008	CTD	41	s	1085	236.6514
nbp23602.010	CTD	41	e	1085	236.7007
nbp23602.011	BMP	21	s		236.7639
nbp23602.013	BMP	21	e	350	236.8854
nbp23602.015	Tucker	19	s	500	236.8993
nbp23602.016	Tucker	19	e		236.9417
nbp23602.017	MOC1	8	s		236.9722
nbp23602.018	MOC1	8	e		237.0278
nbp23602.019	MOC10	7	s	250	237.0639
nbp23602.020	MOC10	7	e	250	237.1042
nbp23602.021	Tucker	20	s	100	237.1236
nbp23702.001	Tucker	20	e	100	237.1674
nbp23702.002	BMP	22	s	160	237.2132
nbp23702.003	BMP	22	e	160	237.3375
nbp23702.004	CTD	42	s	200	237.3681
nbp23702.005	CTD	42	e	200	237.3771
nbp23702.006	CTD	43	s	291	237.3819
nbp23702.007	CTD	43	e	291	237.4118
nbp23702.008	BMP	23	s		237.4361
nbp23702.012	BMP	23	e		237.7292
nbp23702.013	CTD	44	s	200	237.7563
nbp23702.014	CTD	44	e	200	237.7646
nbp23702.015	CTD	45	s	429	237.7681
nbp23702.016	CTD	45	e	429	237.8076
nbp23702.022	Reeve net	1	s	125	237.9479
nbp23702.023	Reeve net	1	e	125	237.9604
nbp23702.024	Ring net	1	s	80	237.9861
nbp23702.025	Ring net	1	e	80	237.9944
nbp23702.026	Tucker	21	s		238.0063
nbp23702.027	Tucker	21	e		238.0104
nbp23702.028	Tucker	22	s	250	238.0417
nbp23702.030	BMP	24	s	200	238.0764
nbp23702.029	Tucker	22	e	250	238.0799
nbp23802.001	BMP	24	e	200	238.5
nbp23802.005	CTD	46	s	200	238.5708

nbp23802.006	CTD	46	e		238.5785
nbp23802.007	CTD	47	s	832	238.5819
nbp23802.008	CTD	47	e		238.634
nbp23802.012	BMP	25	s		238.7563
nbp23802.015	BMP	25	e	170	238.8924
nbp23902.011	Reeve net	2	s	200	240.0625
nbp23902.012	Reeve net	2	e	200	240.0882
nbp23902.013	Ring net	1	s	400	240.0889
nbp23902.014	Ring net	1	e	400	240.1146
nbp24002.001	CTD	48	s	350	240.4201
nbp24002.002	CTD	48	e	350	240.4326
nbp24002.003	CTD	49	s	361	240.4361
nbp24002.004	CTD	49	e	361	240.4667
nbp24102.005	CTD	50	s		241.4694
nbp24102.006	CTD	50	e		241.4757
nbp24102.007	CTD	51	s	405	241.4903
nbp24102.009	CTD	51	e	405	241.5125
nbp24102.010	Reeve net	3	s		241.5236
nbp24102.012	Reeve net	3	e		241.5465
nbp24102.013	MOC1	9	s		241.5903
nbp24102.014	MOC1	9	e		241.709
nbp24102.016	CTD	52	s	300	241.766
nbp24102.017	CTD	52	e	300	241.7778
nbp24102.018	CTD	53	s	300	241.7792
nbp24102.019	CTD	53	e	300	241.7903
nbp24102.020	CTD	54	s	300	241.7917
nbp24102.021	CTD	54	e	300	241.8035
nbp24102.022	CTD	55	s	300	241.8042
nbp24102.023	CTD	55	e	300	241.8167
nbp24102.025	Tucker	23	s		241.8542
nbp24102.026	Tucker	23	e		241.8778
nbp24102.027	Tucker	24	s		241.8799
nbp24102.030	Tucker	24	e		241.9028
nbp24102.031	Tucker	25	s		241.9063
nbp24102.032	Tucker	25	e		241.9271
nbp24102.033	Tucker	26	s		241.9375
nbp24102.034	Tucker	26	e		241.9688

nbp24102.37	BMP	26	s	~125	242.0938
nbp24202.001	BMP	26	e		242.1875
nbp24402.001	Ring/Reeve	4	s	10 and 20	244.1986
nbp24402.002	Ring/Reeve	4	e		244.2396
nbp24402.005	CTD	56	s		244.3972
nbp24402.006	CTD	56	e		244.409
nbp24402.007	CTD	57	s		244.4111
nbp24402.008	CTD	57	e		244.4424
nbp24402.009	MOC1	10	s		244.4611
nbp24402.012	MOC1	10	e		244.516
nbp24402.013	BMP	27	s		244.5507
nbp24402.014	BMP	27	e		244.6986
nbp24402.015	BMP	28	s		244.7069
nbp24402.016	CTD	58	s	200	244.791
nbp24402.017	CTD	58	e	200	244.8007
nbp24402.018	CTD	59	s	342	244.8014
nbp24402.019	CTD	59	e	342	244.8257
nbp24402.022	BMP	28	e		244.9896
nbp24402.025	CTD	60	s	804	245.0938
nbp24402.026	CTD	60	e	804	245.1368
nbp24402.027	MOC10	8	s	n/a	245.1458
nbp24402.028	MOC10	8	e		245.166
nbp24502.001	BMP	29	s		245.2153
nbp24502.002	BMP	29	e		245.2764
nbp24502.003	CTD	61	s	100	245.3819
nbp24502.004	CTD	61	e	100	245.3889
nbp24502.005	CTD	62	s	3217	245.4639
nbp24502.008	CTD	62	e	3217	245.5278
nbp24502.009	BMP	30	s	100	245.5486
nbp24502.011	BMP	30	e	~100	245.7847
nbp24502.012	MOC10	9	s	1000	245.7965
nbp24502.014	MOC10	9	e		245.9924
nbp24502.015	Ring/Reeve	5	s	10	246.0417
nbp24502.016	Ring/Reeve	5	e	10	246.0917
nbp24502.017	CTD	63	s	2934	246.1125
nbp24602.001	CTD	63	e	2934	246.2153
nbp24602.004	BMP	31	s		246.3021
nbp24602.005	BMP	31	e		246.3681

nbp24602.011	CTD	64	s	895	246.5243
nbp24602.012	CTD	64	e	895	246.5764
nbp24602.014	BMP	32	s	100	246.6042
nbp24602.015	BMP	32	e		246.75
nbp24602.018	CTD	65	s	200	246.8819
nbp24602.019	CTD	65	e	200	246.8896
nbp24602.020	CTD	66	s	446	246.8896
nbp24602.021	CTD	66	e	446	246.9167
nbp24602.024	MOC1	11	s	425	246.9375
nbp24602.025	MOC1	11	e		247.0313
nbp24602.026	Ring/Reeve	6	s	5+10	247.0465
nbp24602.027	Ring/Reeve	6	e	5 + 10	247.0938
nbp24602.028	Tucker	27	s	250	247.1042
nbp24602.029	Tucker	27	e	250	247.1389
nbp24602.030	BMP	33	s	100	247.1556
nbp24702.001	BMP	33	e	125	247.375
nbp24702.002	CTD	67	s	350	247.4208
nbp24702.003	CTD	67	e	350	247.4326
nbp24702.004	CTD	68	s	484	247.4396
nbp24702.005	CTD	68	e	484	247.4792
nbp24702.008	BMP	34	s		247.5
nbp24702.009	BMP	34	e	125	247.7444
nbp24702.012	CTD	69	s	330	247.7799
nbp24702.013	CTD	69	e	330	247.7965
nbp24702.014	CTD	70	s	350	247.7972
nbp24702.015	CTD	70	e	350	247.809
nbp24702.016	CTD	71	s	350	247.8104
nbp24702.017	CTD	71	e	350	247.8243
nbp24702.018	CTD	72	s	350	247.8243
nbp24702.019	CTD	72	e	350	247.8382
nbp24702.020	CTD	73	s	350	247.8389
nbp24702.021	CTD	73	e	350	247.8514
nbp24702.022	CTD	74	s	500	247.8521
nbp24702.025	CTD	74	e	500	247.8819
nbp24702.030	MOC1	12	s	480	248.0174
nbp24702.031	MOC1	12	e		248.1042
nbp24702.032	Tucker	28	s	400	248.1174

nbp24702.033	Tucker	28	e	400	248.1458
nbp24702.034	BMP	35	s	100	248.1528
nbp24802.001	BMP	35	e	100	248.4375
nbp24802.002	BMP	36	s	100	248.4458
nbp24802.003	CTD	75	s	350	248.4632
nbp24802.004	CTD	75	e	350	248.475
nbp24802.005	CTD	76	s	532	248.4778
nbp24802.006	CTD	76	e	532	248.509
nbp24802.009	BMP	36	e		248.634
nbp24802.011	CTD	77	s	375	248.7097
nbp24802.012	CTD	77	e	375	248.7222
nbp24802.013	CTD	78	s	375	248.7236
nbp24802.014	CTD	78	e	375	248.7368
nbp24802.015	CTD	79	s	375	248.7382
nbp24802.016	CTD	79	e	375	248.7514
nbp24802.017	CTD	80	s	375	248.7528
nbp24802.018	CTD	80	e	375	248.7674
nbp24802.020	CTD	81	s	866	248.7924
nbp24802.021	CTD	81	e	866	248.8347
nbp24802.022	BMP	37	s	100	248.8424
nbp24802.025	BMP	37	e	100	249.0639
nbp24802.026	Ring/Reeve	7	s	10	249.0799
nbp24802.027	Ring/Reeve	7	e	10	249.1215
nbp24902.002	CTD	82	s	350	249.3125
nbp24902.003	CTD	82	e	350	249.3194
nbp24902.004	CTD	83	s	1757	249.3542
nbp24902.005	CTD	83	e	1757	249.4042
nbp24902.006	MOC1	13	s	800	249.4132
nbp24902.007	MOC1	13	e		249.5215
nbp24902.010	BMP	38	s		249.5382
nbp24902.011	BMP	38	e		249.6521
nbp24902.012	CTD	84	s	350	249.6743
nbp24902.013	CTD	84	e	350	249.691
nbp24902.014	CTD	85	s	400	249.6917
nbp24902.015	CTD	85	e	400	249.7208
nbp24902.016	MOC10	10	s	400	249.7417
nbp24902.017	MOC10	10	e	400	249.8201

nbp24902.018	BMP	39	s	100	249.9076
nbp24902.021	BMP	39	e	100	250.0382
nbp24902.022	Ring/Reeve	8	s	15/20	250.0708
nbp24902.023	Ring/Reeve	8	s		250.1146
nbp25002.003	CTD	86	s	350	250.2778
nbp25002.004	CTD	86	e	350	250.284
nbp25002.005	CTD	87	s	485	250.2986
nbp25002.006	CTD	87	e	485	250.3215
nbp25002.007	MOC1	14	s	450	250.3438
nbp25002.008	MOC1	14	e		250.434
nbp25002.009	BMP	40	s		250.4583
nbp25002.012	CTD	88	s	350	250.5979
nbp25002.013	CTD	88	e	350	250.6056
nbp25002.014	CTD	89	s	350	250.6146
nbp25002.015	CTD	89	e	350	250.6215
nbp25002.016	CTD	90	s	150	250.6292
nbp25002.017	CTD	90	e	150	250.6306
nbp25002.018	CTD	91	s	641	250.6375
nbp25002.019	CTD	91	e	641	250.6764
nbp25002.021	BMP	40	e	125	250.9111
nbp25002.023	CTD	92	s	315	250.9306
nbp25002.024	CTD	92	e	315	250.9438
nbp25002.025	CTD	93	s	383	250.9451
nbp25002.026	CTD	93	e	383	250.9736
nbp25002.027	Ring/Reeve	9	s	15/20	250.9875
nbp25002.028	Ring/Reeve	9	e		251.0299
nbp25002.029	MOC10	11	s	500	251.0674
nbp25102.001	MOC10	11	e		251.1667
nbp25102.002	MOC1	15	s		251.1819
nbp25102.003	MOC1	15	e	525	251.2736
nbp25102.004	BMP	41	s		251.3229
nbp25102.007	CTD	94	s	350	251.6181
nbp25102.008	CTD	94	e	350	251.6299
nbp25102.009	CTD	95	s	415	251.6319
nbp25102.010	CTD	95	e		251.6604
nbp25102.011	BMP	41	e	100	251.7715
nbp25102.020	Ring/Reeve	10	s	15/20	252.0826
nbp25102.021	Ring/Reeve	10	e	15/20	252.1243

nbp25102.022	CTD	96	s	350	252.141
nbp25102.023	CTD	96	e	350	252.1535
nbp25102.024	CTD	97	s	496	252.1556
nbp25202.001	CTD	97	e	496	252.1889
nbp25202.002	BMP	42	s	100	252.2118
nbp25202.004	BMP		e	100	252.509
nbp25202.006	CTD	98	s	300	252.5333
nbp25202.007	CTD	98	e	300	252.5444
nbp25202.008	CTD	99	s	311	252.5458
nbp25202.009	CTD	99	e	311	252.5715
nbp25202.010	MOC1	16	s	300	252.5896
nbp25202.011	MOC1	16	e		252.6688
nbp25202.012	CTD	100	s	67	252.7694
nbp25202.013	CTD	100	e	67	252.7743
nbp25202.014	CTD	101	s	65	252.7757
nbp25202.015	CTD	101	e	65	252.7757
nbp25202.016	BMP	43	s		252.8014
nbp25202.019	BMP	43	e	125	253.0563
nbp25202.020	Ring/Reeve	11	s	10&20	253.0729
nbp25202.021	Ring/Reeve	11	e		253.1181
nbp25302.003	CTD	102	s	360	253.2576
nbp25302.004	CTD	102	e	350	253.2639
nbp25302.005	CTD	103	s	650	253.2833
nbp25302.006	CTD	103	e	650	253.3111
nbp25302.007	MOC1	17	s		253.3361
nbp25302.008	MOC1	17	e	500	253.4076
nbp25402.001	BMP	44	s	12	254.3861
nbp25402.002	CTD	104	s	400	254.3979
nbp25402.003	CTD	104	e	400	254.4118
nbp25402.004	CTD	105	s	400	254.4139
nbp25402.005	CTD	105	e	400	254.4278
nbp25402.006	BMP	44	e	12	254.4375
nbp25402.007	MOC1	18	s		254.4479
nbp25402.009	MOC1	18	e		254.5069
nbp25402.015	BMP	45	s		254.6465
nbp25402.016	CTD	106	s	400	254.6569
nbp25402.017	CTD	106	e	400	254.6715

nbp25402.018	CTD	107	s	730	254.6736
nbp25402.019	CTD	107	e	730	254.7118
nbp25402.020	BMP	45	e		254.7201
nbp25402.022	BMP	46	s		254.7604
nbp25402.023	BMP	46	e	2	254.841
nbp25402.026	CTD	108	s	350	254.875
nbp25402.023	BMP	47	s	10	254.8778
nbp25402.027	CTD	108	e	350	254.8979
nbp25402.028	CTD	109	s	350	254.8979
nbp25402.029	CTD	109	e	350	254.9118
nbp25402.030	CTD	110	s	350	254.9118
nbp25402.031	CTD	110	e	350	254.9243
nbp25402.032	CTD	111	s	350	254.9257
nbp25402.033	CTD	111	e	350	254.9375
nbp25402.034	BMP	47	e		254.9653
nbp25402.035	MOC1	19	s		254.9688
nbp25402.036	MOC1	19	e		255.0271
nbp25402.037	Ring/Reeve	12	s	10&20	255.066
nbp25402.038	Ring/Reeve	12	e	10&20	255.0972
nbp25402.039	BMP	48	s	10	255.1076
nbp25402.040	CTD	112	s	350	255.1111
nbp25402.041	CTD	112	e	350	255.1271
nbp25402.042	CTD	113	s	350	255.1278
nbp25402.043	CTD	113	e	350	255.141
nbp25402.044	CTD	114	s	500	255.1417
nbp25502.001	CTD	114	e	500	255.1757
nbp25502.002	BMP	48	e		255.1764
nbp25502.005	BMP	49	s	13	255.2708
nbp25502.006	CTD	115	s		255.2806
nbp25502.007	CTD	115	e		255.2938
nbp25502.008	CTD	116	s		255.2958
nbp25502.009	CTD	116	e		255.3368
nbp25502.010	BMP	49	e		255.3375

nbp25502.013	BMP	50	s	2	255.7403
nbp25502.014	BMP	50	e	2	255.7847
nbp25601.004	CTD	117	s	350	256.8319
nbp25601.005	CTD	117	e	350	256.8451
nbp25601.006	CTD	118	s	350	256.8458
nbp25601.007	CTD	118	s	350	256.8458
nbp25601.009	CTD	119	s	350	256.9257
nbp25601.010	CTD	119	e	350	256.9382
nbp25601.011	CTD	120	s	757	256.941
nbp25601.012	CTD	120	e	757	256.9688
nbp25601.013	CTD	121	s	350	257.0061
nbp25601.015	CTD	122	s	350	257.0092
nbp25601.016	CTD	122	e	350	257.0092
nbp25601.014	CTD	121	e	350	257.0122
nbp25601.018	CTD	123	e	650	257.0123
nbp25601.017	CTD	123	s	650	257.0217
nbp25602.019	CTD	124	s	350	257.1507
nbp25602.020	CTD	124	e	350	257.1625
nbp25602.021	CTD	125	s	350	257.1639
nbp25702.001	CTD	125	e	350	257.1889
nbp25702.002	CTD	126	s	450	257.191
nbp25702.003	CTD	126	e	450	257.1972
nbp25702.004	CTD	127	s	1048	257.2028
nbp25702.005	CTD	127	e	1048	257.2174
nbp25702.006	CTD	128	s	500	257.3361
nbp25702.007	CTD	128	e	500	257.3493
nbp25702.008	CTD	129	s	695	257.3493
nbp25702.009	CTD	129	e	695	257.3611
nbp25702.011	CTD	130	s	1160	257.4681
nbp25702.012	CTD	130	e	1160	257.4875

APPENDIX 11. Fish and krill caught in 10-m² MOCNESS trawls on NBP02-04.

trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
m10-001	CS-4	500-1200	500	19:07-23:07		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-200 m	net 2: 300-200 m	net 1: 300-500 m	net 0: 0-500 m	Pisces
						<i>Bathylagus antarcticus</i>
				4	5	<i>Electrona antarctica</i>
1						<i>Gymnoscopelus braueri</i>
						<i>Gymnoscopelus nicholsi</i>
						<i>Gymnoscopelus opisthopterus</i>
						<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
				2	1	<i>Melanostigma gelatinosum</i>
						<i>Paraliparus terraenovae</i>
				1		notothenioid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>
200 juv	200 juv	30 adults + 25 juv			200	<i>Euphausia superba</i>
		6				<i>Euphausia triacantha</i>
		70	75			<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
			12			<i>Epimeriella macronyx</i>
	1		10	24	8	<i>Eusirus perdentatus</i>
					1	<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
						<i>Cyllopus lucasi</i>
						<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
				1		<i>Antarctomysis ohlinii</i>
						<i>Gnathophausia gigas</i>
						<i>Ctenophora</i>
5					3	<i>Callianira antarctica</i>

trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		<i>Beroe</i> sp
						species captured
			2			Cnidaria
						<i>Periphylla</i> sp
						Atolla
						<i>Stygiomedusa gigantea</i>
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
m10-002	75	430	350	21:00 - 22:45		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-150 m	net 2: 150-200 m	net 1: 200-350 m	net 0: 0-350 m	Pisces
						<i>Bathylagus antarcticus</i>
				1	1	<i>Electrona antarctica</i>
						<i>Gymnoscopelus braueri</i>
						<i>Gymnoscopelus nicholsi</i>
						<i>Gymnoscopelus opisthopterus</i>
						<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
						<i>Melanostigma gelatinosum</i>
						<i>Paraliparus terraenovae</i>
						notothenioid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>
50 juvs	12 adults	6adults+ 6juvs	6 adults+10 juvs		1000 juv	<i>Euphausia superba</i>
				12		<i>Euphausia triacantha</i>
	6	20	10			<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
						<i>Epimeriella macronyx</i>
						<i>Eusirus perdentatus</i>
						<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
						<i>Cylopus lucasi</i>
						<i>Primno macropa</i>
					10	<i>Themisto gaudichaudii</i>

						<i>Vibilia stebbingi</i>
						<i>Antarctomysis ohlinii</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						<i>Gnathophausia gigas</i>
						<i>Pareuchaeta</i> sp
						<i>Gigantocypris</i> sp
						Ctenophora
11			1			<i>Callianira antarctica</i>
						<i>Beroe</i> sp
						Cnidaria
						<i>Periphylla</i> sp
						Atolla
						<i>Stygiomedusa gigantea</i>
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
						Chordata
	25					<i>Salpa thompsoni</i>
m10-003	72	677	500	19:00-21:00		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-200 m	net 2: 300-200 m	net 1: 300-500 m	net 0: 0-500 m	Pisces
					1	<i>Bathylagus antarcticus</i>
				1	3	<i>Electrona antarctica</i>
						<i>Gymnoscopelus braueri</i>
						<i>Gymnoscopelus nicholsi</i>
						<i>Gymnoscopelus opisthopterus</i>
					1	<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
						<i>Melanostigma gelatinosum</i>
						<i>Paraliparus terraenovae</i>
		1				notothenioid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>
1	50 juvs	60 juvs 10 ads	75 juvs and ads	20	50	<i>Euphausia superba</i>
				20		<i>Euphausia triacantha</i>
5			150 med size	100	50	<i>Thysanoessa macrura</i>

						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
	3			30	75	<i>Epimeriella macronyx</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
			2		15	<i>Eusirus perdentatus</i>
						<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
						<i>Cylopus lucasi</i>
				1		<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
1 small				25	100	<i>Antarctomysis ohlinii</i>
						<i>Gnathophausia gigas</i>
					200	<i>Pareuchaeta</i> sp
						<i>Gigantocypris</i> sp
						Ctenophora
	2	15			12	<i>Callianira antarctica</i>
						<i>Beroe</i> sp
						Cnidaria
						<i>Periphylla</i> sp
						Atolla
						<i>Stygiomedusa gigantea</i>
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
						Chordata
						<i>Salpa thompsoni</i>
						Chaetognatha
			3		6	misc large chaetognaths
						Annelida
				1	1	<i>Tomopteris</i>
				12		<i>Pelagobia</i>
m10-004	65	417	350	14:57-16:12		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-150 m	net 2: 150-200 m	net 1: 200-350 m	net 0: 0-350 m	Pisces

						<i>Bathylagus antarcticus</i>
						<i>Electrona antarctica</i>
						<i>Gymnoscopelus braueri</i>
						<i>Gymnoscopelus nicholsi</i>
						<i>Gymnoscopelus opisthopterus</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
						<i>Melanostigma gelatinosum</i>
						<i>Paraliparus terraenovae</i>
7						notothenioid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>
						<i>Euphausia superba</i>
						<i>Euphausia triacantha</i>
		6	20		30	<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
						<i>Epimeriella macronyx</i>
						<i>Eusirus perdentatus</i>
						<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
	1		8			<i>Cyllopus lucasi</i>
						<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
					1	<i>Vibilia stebbingi</i>
						<i>Antarctomysis ohlinii</i>
						<i>Gnathophausia gigas</i>
				20		<i>Pareuchaeta</i> sp
					1	<i>Gigantocypris</i> sp
						Ctenophora
1			8		1	<i>Callianira antarctica</i>
						<i>Beroe</i> sp
						Cnidaria
						<i>Periphylla</i> sp

				1		Atolla
						<i>Stygiomedusa gigantea</i>
				2		misc hydromedusae
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						Chordata
						<i>Salpa thompsoni</i>
						Chaetognatha
				4	6	misc large chaetognaths
						Annelida
						<i>Tompopterus</i>
						<i>Pelagobia</i>
m10-006	44	2158	1000 m	21:58 - 02:00		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-200 m	net 2: 200-500 m	net 1: 500-1000 m	net 0: 0-1000 m	Pisces
				6		<i>Bathylagus antarcticus</i>
		1	5		4	<i>Electrona antarctica</i>
		1			4	<i>Gymnoscopelus braueri</i>
			2	2		<i>Gymnoscopelus nicholsi</i>
				2		<i>Gymnoscopelus opisthopterus</i>
				1		<i>Lampanyctus achirus</i>
						<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
				6	4	<i>Cyclothone</i> sp
				1		<i>Borostomias antarcticus</i>
			1			<i>Benthalbella macropinna</i>
						<i>Melanostigma gelatinosum</i>
				1		<i>Opisthoproctid</i> no id
						<i>Paraliparus terraenovae</i>
						nototheniid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>

10					6	<i>Euphausia superba</i>
			12		6	<i>Euphausia triacantha</i>
25	75	5	25			<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
						<i>Epimeriella macronyx</i>
						<i>Eusirus perdentatus</i>
			1		1	<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						<i>Cylopus lucasi</i>
						<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
						<i>Antarctomysis ohlinii</i>
				2		<i>Eucopeia</i> sp
						<i>Gnathophausia gigas</i>
						<i>Pareuchaeta</i> sp
				1	2	<i>Gigantocypris</i> sp
						Ctenophora
3						<i>Callianira antarctica</i>
						<i>Beroe</i> sp
						Cnidaria
				3	1	<i>Periphylla</i> sp
			2	2	2	Atolla
						<i>Stygiomedusa gigantea</i>
						Mollusca
				1		<i>Galiteuthis glacialis</i>
				1		other squid
						Chordata
100						<i>Salpa thompsoni</i>
						Chaetognatha
						misc large chaetognaths
						Annelida
						<i>Tompopterus</i>

						<i>Pelagobia</i>
						Platyhelminthes
				1		flatworm no id
m10-007	between 62 and 48	376	250	21:32 - 22:29		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-150 m	net 2: 150-200 m	net 1: 200-250 m	net 0: 0-250 m	Pisces
						<i>Bathylagus antarcticus</i>
						<i>Electrona antarctica</i>
						<i>Gymnoscopelus braueri</i>
						<i>Gymnoscopelus nicholsi</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						<i>Gymnoscopelus opisthopterus</i>
						<i>Lampanyctus achirus</i>
						<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
						<i>Cyclothone</i> sp
						<i>Borostomias antarcticus</i>
						<i>Benthalbella macropinna</i>
				1 larva		<i>Notolepis coatsi</i>
						<i>Melanostigma gelatinosum</i>
						<i>Opisthoproctid</i> no id
						<i>Paraliparus terraenovae</i>
	4					notothenioid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>
2000	200 ads	12 juvs and ads	12 juvs	10 juvs and ads	25 juvs and ads	<i>Euphausia superba</i>
		1	10	8	10	<i>Euphausia triacantha</i>
		40	30 small	10	30	<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
						<i>Epimeriella macronyx</i>
						<i>Eusirus perdentatus</i>
						<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>

	2					<i>Cylopus lucasi</i>
			4			<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
		1				<i>Antarctomysis ohlinii</i>
						<i>Eucopia</i> sp
						<i>Gnathophausia gigas</i>
						<i>Pareuchaeta</i> sp
						<i>Gigantocypris</i> sp
						Ctenophora
						<i>Callianira antarctica</i>
						<i>Beroe</i> sp
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						Cnidaria
						<i>Periphylla</i> sp
						Atolla
						<i>Stygiomedusa gigantea</i>
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
						Chordata
						<i>Salpa thompsoni</i>
						Chaetognatha
					8	misc large chaetognaths
						Annelida
	1					<i>Tomopteris</i>
						<i>Pelagobia</i>
						Platyhelminthes
						flatworm no id
m10-009	13	3562	1000 m	15:07 - 19:46		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-200 m	net 2: 200-500 m	net 1: 500-1000 m	net 0: 0-1000 m	Pisces
			18	7	3	<i>Bathylagus antarcticus</i>
				5	9	<i>Electrona antarctica</i>

						<i>Gymnoscopelus braueri</i>
			1			<i>Gymnoscopelus nicholsi</i>
						<i>Gymnoscopelus opisthopterus</i>
						<i>Lampanyctus achirus</i>
			6		2	<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
				3		<i>Cyclothone</i> sp
						<i>Borostomias antarcticus</i>
						<i>Benthalbella macropinna</i>
						<i>Notolepis coatsi</i>
						<i>Melanostigma gelatinosum</i>
						<i>Opisthoproctid</i> no id
						<i>Paraliparus terraenovae</i>
1juvenile nototheniid						nototheniid larvae
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						Crustacea
						<i>Euphausia crystallorophias</i>
	25 small	20	50			<i>Euphausia superba</i>
			75			<i>Euphausia triacantha</i>
75	200	75				<i>Thysanoessa macrura</i>
					2	<i>Pasiphaea scotiae</i>
				1		<i>Gennadas</i> sp
					1	<i>Euandania</i> sp
						<i>Epimeriella macronyx</i>
						<i>Eusirus perdentatus</i>
				4	2	<i>Cyphocaris richardi</i>
			1			<i>Parandania boeckii</i>
1						<i>Cyllopus lucasi</i>
						<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
						<i>Antarctomysis ohlinii</i>
						<i>Eucopeia</i> sp
				1		<i>Gnathophausia gigas</i>

						<i>Borostomias antarcticus</i>
						<i>Benthalbella macropinna</i>
						<i>Notolepis coatsi</i>
						<i>Melanostigma gelatinosum</i>
						<i>Opisthoproctid no id</i>
						<i>Liparid no id</i>
	1					notothenioid larvae
						Crustacea
						<i>Euphausia crystallorophias</i>
2			20 juvs	6 juvs	6 juvs	<i>Euphausia superba</i>
			12	30	8	<i>Euphausia triacantha</i>
1		14				<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas sp</i>
						<i>Euandania sp</i>
						<i>Epimeriella macronyx</i>
						<i>Eusirus perdentatus</i>
						<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
	1					<i>Cylopus lucasi</i>
			1		1	<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
						<i>Antarctomysis ohlinii</i>
						<i>Eucopia sp</i>
						<i>Gnathophausia gigas</i>
						<i>Pareuchaeta sp</i>
						<i>Gigantocypris sp</i>
						Ctenophora
	3	6				<i>Callianira antarctica</i>
						<i>Beroe sp</i>
						Cnidaria
						<i>Periphylla sp</i>
						Atolla

						<i>Stygiomedusa gigantea</i>
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
		1	1			pteropods
						Chordata
						<i>Salpa thompsoni</i>
						Chaetognatha
						misc large chaetognaths
						Annelida
						<i>Tomopteris</i>
						<i>Pelagobia</i>
						Platyhelminthes
						flatworm no id
m10-011	19	492-700	500 m	21:37 - 23:45		
		net number and depth				
net 5: 0-50 m	net 4: 50-100 m	net 3: 100-200 m	net 2: 200-300 m	net 1: 300-500 m	net 0: 0-500 m	Pisces
			1		6	<i>Bathylagus antarcticus</i>
						<i>Electrona antarctica</i>
						<i>Gymnoscopelus braueri</i>
						<i>Gymnoscopelus nicholsi</i>
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						<i>Gymnoscopelus opisthopterus</i>
						<i>Lampanyctus achirus</i>
						<i>Protomyctophum bolini</i>
						<i>Pleuragramma antarcticum</i>
						<i>Cyclothone</i> sp
						<i>Borostomias antarcticus</i>
						<i>Benthalbella macropinna</i>
						<i>Notolepis coatsi</i>
				4	1	<i>Melanostigma gelatinosum</i>
						<i>Opisthoproctid</i> no id
				1		<i>Liparid</i> no id
						notothenioid larvae
						Crustacea

						<i>Euphausia crystallorophias</i>
75 juvs	16 ads 85 juvs	300 ads and juvs	25 ads 12 juvs		25	<i>Euphausia superba</i>
			12			<i>Euphausia triacantha</i>
			12			<i>Thysanoessa macrura</i>
						<i>Pasiphaea scotiae</i>
						<i>Gennadas</i> sp
						<i>Euandania</i> sp
4				100	30	<i>Epimeriella macronyx</i>
					1	<i>Eusirus perdentatus</i>
						<i>Cyphocaris richardi</i>
						<i>Parandania boeckii</i>
1						<i>Cyllopus lucasi</i>
1						<i>Primno macropa</i>
						<i>Themisto gaudichaudii</i>
						<i>Vibilia stebbingi</i>
						<i>Antarctomysis ohlinii</i>
						<i>Eucopeia</i> sp
						<i>Gnathophausia gigas</i>
						<i>Pareuchaeta</i> sp
						<i>Gigantocypris</i> sp
						Ctenophora
						<i>Callianira antarctica</i>
						<i>Beroe</i> sp
trawl number	station number	bottom depth (m)	trawl max depth (m)	time of day		species captured
						Cnidaria
					1 small	<i>Periphylla</i> sp
						Atolla
					1	<i>Stygiomedusa gigantea</i>
						Mollusca
						<i>Galiteuthis glacialis</i>
						other squid
						pteropods
						Chordata
						<i>Salpa thompsoni</i>
						Chaetognatha

12		6				misc large chaetognaths
						Annelida
						<i>Tompopterus</i>
						<i>Pelagobia</i>
						Platyhelminthes
						flatworm no id

APPENDIX 12. Log of sea ice stations and corresponding survey grid stations at which sea ice biology cores were collected during NBP02-04.

ice station	grid station	event #	latitude (°S)	longitude (°W)	date	Julian date	ice conditions (observed prior to sampling)	core #	snow depth (m)	ice thickness (m)	freeboard (m)
1	Crystal Sound CTD Stn. 3	21802.006	66 33.98	67 32.45	06 Aug 02	218	10/10 coverage; 7/10 coverage by level small (20-100m)-to-medium (100-500m) first-year (FY) floes (z = 40-65cm, snow = 10cm); 3/10 coverage by large brash/FY ice chunks w/ snow cover	1	0.2	0.7	0.065
								2	0.23	0.79	0.04
								3	0.22	0.71	0.07
								4	0.23	0.84	0.07
								5	0.2	0.85	0.08
2	Crystal Sound CTD Stn. 4	21902.009	66 31.92	67 37.84	07 Aug 02	219	10/10 coverage; 7/10 coverage by level large (500-2000m) FY floes (z = 50cm, snow = 20cm); 2-3/10 coverage by medium floes (z = 50-70cm) w/ 10-20% areal ridge coverage (0.5-1.0m ave. sail height)	6	0.2	0.44	-0.015
3	transit station	22102.014	67 11.52	70 33.86	09 Aug 02	221	10/10 coverage by vast (>2000m) FY floes (z = 50-80cm) w/ 10-20% areal ridge coverage (1.0m ave. sail height); formed via cementation of cake and small floes	7	0.07	1.1	0.09
								8	0.35	1.4	-0.07
4	77	22402.020	68 51.75	75 07.07	12 Aug 02	224	10/10 coverage by vast FY floes (z = 50-80cm, snow = 10-20cm) w/ 10% areal ridge coverage (1.0m ave. sail height); algal coloration visible in >40% of overturned floes	9	0.18	1.78	0.08
								10	0.09	0.68	0.05
								11	0.07	0.65	0.01
								12	0.26	0.65	0.01
								13	0.13	0.61	0.015
								14	0.08	0.67	0.01

5	82	22602.004	68 46.70	76 46.84	14 Aug 02	226	10/10 coverage by vast FY floes (z = 50-60cm, snow = 0-20cm windpacked snow) w/ 25% areal ridge coverage (0.75m ave. sail height)	15	0.08	0.56	0.05
								16	0.1	0.42	0.03
6	72	22702.025	68 35.23	74 05.72	15 Aug 02	227	9/10 coverage (open lead within 1km) by vast FY floes (z = 50-70cm, snow = 20cm) w/ 10-15% areal ridge coverage (1.5m ave. sail height)	17	0.34	1.95	0.06
								18	0.1	2.15	0.15
7	65	22902.033	68 05.49	74 44.72	17 Aug 02	229	9/10 coverage (lead in distance) by vast FY floes (z = 50-70cm, snow = 10-15cm) w/ 10-20% areal ridge coverage (0.75m ave. sail height)	20	0.1	0.72	0.03
								21	0.13	0.7	0.03
								22	0.19	0.68	0.01
								23	0.16	0.69	0
								24	0.21	0.87	0
								25	0.23	0.79	0.02
								26	0.28	0.96	0.04
								27	0.27	0.9	0.025
8	Gould Stn. 2	23102.001	67 32.71	71 39.32	19 Aug 02	231	8-9/10 coverage by vast FY floes (z = 60-80cm, snow = 20cm) w/ 15-25% areal ridge coverage (1.0m ave. sail height)	28	0.21	0.61	0.045
								29	0.15	0.54	0
								30	0.1	0.56	0.01
								31	0.1	0.59	0.02
								32	0.15	0.56	0.02
								33	0.18	0.55	0.03
9	43	23202.001	67 15.94	72 31.84	20 Aug 02	232	10/10 coverage by vast FY floes (z = 60-150cm, snow = 10-20cm) composed of cake (<20m)-to-small floes consolidated together; 25-30% areal ridge coverage (1.5m ave. sail height)	34	0.14	0.97	0.055
								35	0.14	1.32	0.11
								36	0.11	0.91	0.015
								37	0.17	0.89	0.015

								38	0.09	0.73	0.015
								39	0.07	0.98	0.02
10	44	23302.002	67 01.38	73 24.51	21 Aug 02	233	10/10 coverage; 9/10 coverage by vast FY floes (z = 40-60cm, snow = 15-20cm) w/ 15% areal ridge coverage (0.5m ave. sail height); 1/10 coverage by thicker/older FY floes (z = 100cm, snow = >20cm)	40	0.25	0.91	0.02
								41	0.25	1.4	0.08
								42	0.21	1.42	-0.005
11	45	23302.014	67 13.99	74 28.92	21 Aug 02	233	10/10 coverage; 9/10 coverage by vast FY floes (z = 50-60cm, snow = 20cm) w/ 20-40% areal ridge coverage (0.75m ave. sail height); 1/10 coverage by small-to-medium second-year/multi-year floes (MY) floes (z = >300cm, snow = >80cm); MY floe sampled	43	0.85	2.9	ND
12	64	23502.006	67 30.93	75 05.55	23 Aug 02	235	10/10 coverage; 9/10 coverage by vast FY floes (z = 50-60cm, snow = 20cm) composed of cake and small floes cemented together; 1/10 coverage by small-to-medium second-year/MY floes (z = >300cm, snow = 75cm) w/ 15-25% areal ridge coverage (0.5-0.75m ave. sail height); MY floe sampled	44	0.97	2.96	ND
								45	0.83	3.13	0.005
13	62	23602.003	67 48.76	74 11.35	24 Aug 02	236	10/10 coverage by vast FY floes (z = 50-90cm, snow = 10-20cm) w/ 15% areal ridge coverage (1.0 ave. sail height)	46	0.18	0.84	0.13
								47	0.2	0.83	0.075
								48	0.12	0.49	0.04
14	49	23702.018	68 03.71	71 34.37	25 Aug 02	237	10/10 coverage; 7/10 coverage by vast FY floes (z = 60-90cm, snow = 10-15cm) w/ 25% areal ridge coverage (1.0m ave. sail height); 3/10 coverage by young gray/young gray-white ice in recently frozen leads	49	0.08	0.89	0.07

15	40	23902.007	67 56.24	70 53.85	27 Aug 02	239	10/10 coverage by vast FY floes (z = 60-80cm, snow = 15-20cm) w/ 40% areal ridge coverage (1.5m ave. sail height); ridges under heavy lateral pressure - difficult boat maneuvering	50	0.18	0.73	0.07
								51	0.16	0.73	0.05
								52	0.16	0.68	0.015
								53	0.22	0.8	0.02
								54	0.25	0.77	0.02
16	26	24102.003	67 06.82	72 00.22	29 Aug 02	241	10/10 coverage by vast FY floes (z = 100cm, snow = 20cm) w/ 20% areal ridge coverage (1.0m ave. sail height); under-ice surface extensively under-rafted by brash/ice blocks	55	0.35	1.01	0.04
								56	0.29	0.34	0.03
								57	0.3	1.35	0.04
								58	0.35	1.08	0.09
17	2	24402.023	65 47.92	70 22.46	01 Sep 02	244	9/10 coverage; 1/10 coverage by cake-to-small second-year/MY floes (z = >100cm, snow = 100cm) w/ heavy ridging/hummocks; 5/10 coverage by cake-to-small FY floes (z = 40-60cm, snow = 30cm) w/ 20-30% areal ridge coverage (0.75m ave. sail height); 3/10 coverage by brash ice/broken pancakes; rounded edges to floes indicate extensive and recent exposure to swell; complex ice field	59	0.56	2.27	-0.03
								60	0.56	2.27	-0.03
								61	0.2	0.9	0
								62	0.2	0.92	0
18	12	24602.005	66 06.02	70 51.94	03 Sep 02	246	8-9/10 coverage; 4/10 coverage by cake FY floes (z = 40-60cm, snow = 20cm) w/ 15% areal ridge coverage (0.5m ave. sail height); 3/10 coverage by pancakes (some cemented to form young gray ice sheets; z = 15-20cm, no snow); 1/10 coverage by brash ice	63	0.15	0.59	0.05

								64	0.17	0.58	0.03
								65	0.07	0.56	0.02
								66	0.04	0.5	0.045
								67	0.15	0.58	0.065
								68	0.15	0.6	0.09
19	16	24702.027	66 44.57	70 10.43	04 Sep 02	247	9/10 coverage by vast FY floes (z = 60- >100cm, snow = 15-40cm) w/ 20-30% areal ridge coverage (1.5-2.0m ave. sail height); highly variable snow and ice thicknesses	69	0.14	0.62	0.02
								70	0.09	0.68	0.02
								71	0.32	1.98	0.02
								72	0.11	0.67	0.03
								73	0.11	0.63	0.03
20	21	24902.024	67 02.61	70 42.80	06 Sep 02	249	9-10/10 coverage by vast floes composed of a mixture of younger FY ice (z = 65cm, snow = 20-30cm) and older FY/second-year ice (z = >120cm, snow = 20-30cm) w/ 25% areal ridge coverage (1.5m ave. sail height)	74	0.34	0.55	0.1
								75	0.27	0.59	0.04
								76	0.37	1.18	0
								77	0.28	0.65	-0.01
								78	0.34	0.59	0.1
								79	0.4	0.65	-0.03
								80	0.4	0.65	-0.03
21	17	25102.014	66 57.71	69 29.69	08 Sep 02	251	8/10 coverage; 2/10 coverage by thick small-to-medium older FY floes (consisting of consolidated rubble; z = >300cm, snow = >50cm) w/ 50-70% areal ridge coverage (1.5m ave. sail height); 2/10 coverage by brash/rubble chunks from break-up of older FY floes; 4/10 coverage by young gray/young gray-white ice	81	0.3	2.97	0.22

22	5	25202.022	66 24.27	68 22.71	09 Sep 02	252	9-10/10 coverage by level vast FY floes (z = 40-60cm, snow = 20-30cm) w/ 5-10% areal ridge coverage (0.5m ave. sail height); surface flooding/seawater intrusion at ice-snow interface	82	0.1	0.58	0.02
								83	0.21	0.54	0
23	Renaud Island Station	25402.012	65 10.13	65 36.60	11 Sep 02	254	7-8/10 coverage; 6/10 coverage by medium FY floes (z = 50-80cm, snow = 20-30cm wet snow) composed of consolidated ice chunks, cake floes and brash w/ 5-15% areal ridge coverage (0.5-0.75m ave. sail height); surface flooding/seawater intrusion at ice-snow interface of primary ice type; 1/10 coverage by young gray ice (z = 10-15cm, no snow); 1/10 coverage by nilas (z = 5cm)	84	0.2	0.67	0
								85	0.29	0.69	-0.01
								86	0.2	0.49	-0.03
								87	0.18	0.44	0