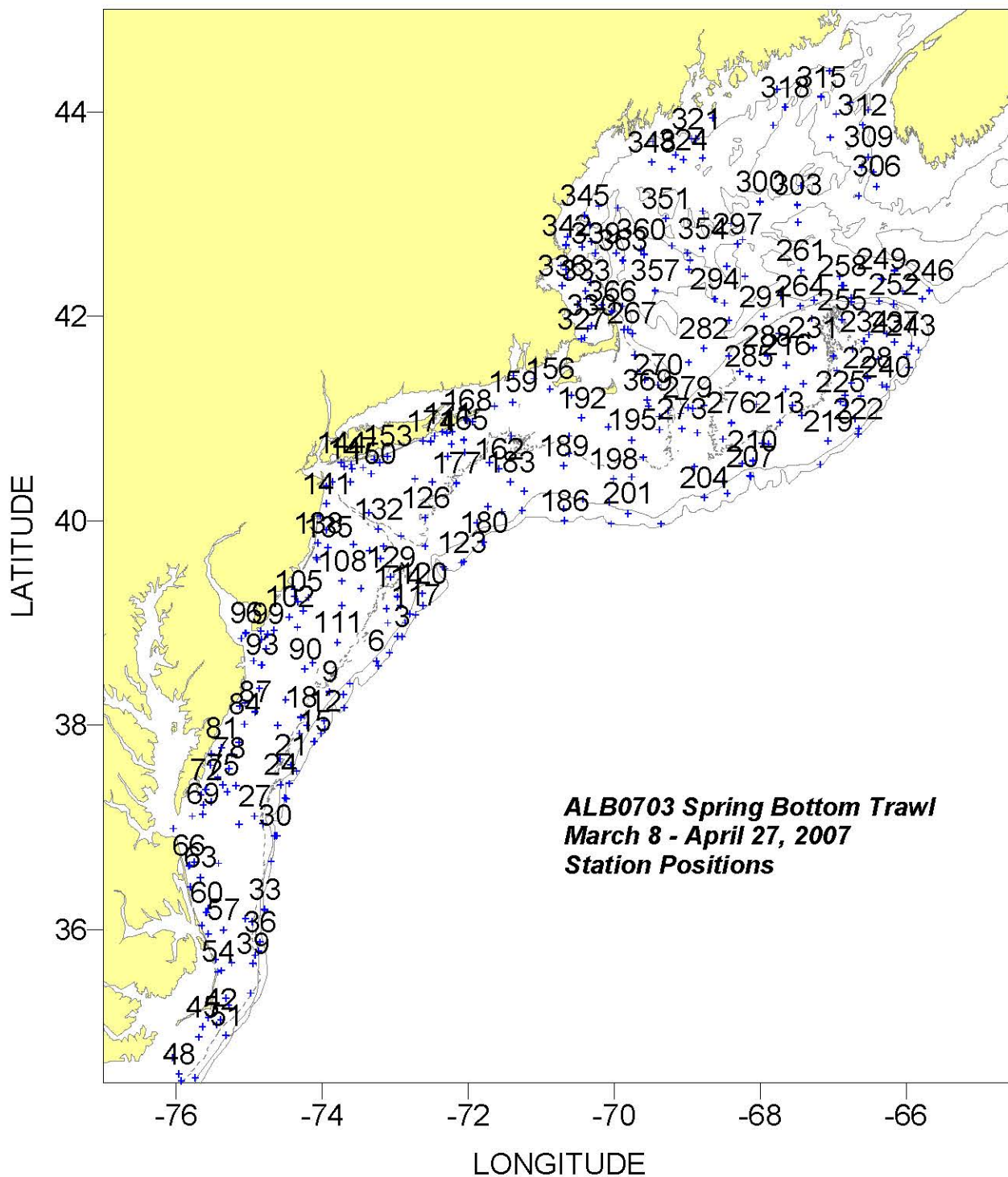


*Oceanography Branch CTD Data Report
2007 Spring Bottom Trawl Survey ALB0703*

**For further information, contact Tamara Holzwarth-Davis
National Marine Fisheries Service, Northeast Fisheries Science
Center, Woods Hole, Massachusetts 02543-1097.**

DATE: June 19, 2007



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2007 Spring Bottom Trawl Survey ALB0703

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
Gulf of Maine West														
alb0703	110	49	5.27	0.21	0.15	0.87	0	47	5.48	0.46	0.13	0.72	0	10
alb0703	110	49	32.67	0.17	0.1	0.54	0	47	33.35	0.02	0.08	0.23	0	10
Gulf of Maine East														
alb0703	101	29	3.74	-0.67	0.19	0.97	0	24	6.03	-0.05	0.2	0.89	0	10
alb0703	101	29	32.46	0.01	0.14	0.31	0	24	33.85	0.07	0.12	0.41	0	10
Georges Bank														
alb0703	94	56	4.65	-0.22	0.14	0.99	0	48	4.88	-0.1	0.17	0.84	0	10
alb0703	94	56	32.82	-0.13	0.09	0.41	0	48	33.03	-0.09	0.1	0.37	0	10
MAB North														
alb0703	86	54	5.46	0.75	0.19	0.91	0	45	5.31	0.17	0.24	1.21	0	10
alb0703	86	54	32.87	-0.01	0.12	0.43	0	45	33.17	-0.17	0.14	0.42	0	10
MAB South														
alb0703	73	96	7.25	1.29	0.14	1.3	0	79	6.98	1.33	0.18	1.3	0	10
alb0703	73	96	33.26	0.22	0.1	1.49	0	79	33.61	0.23	0.11	0.76	0	10

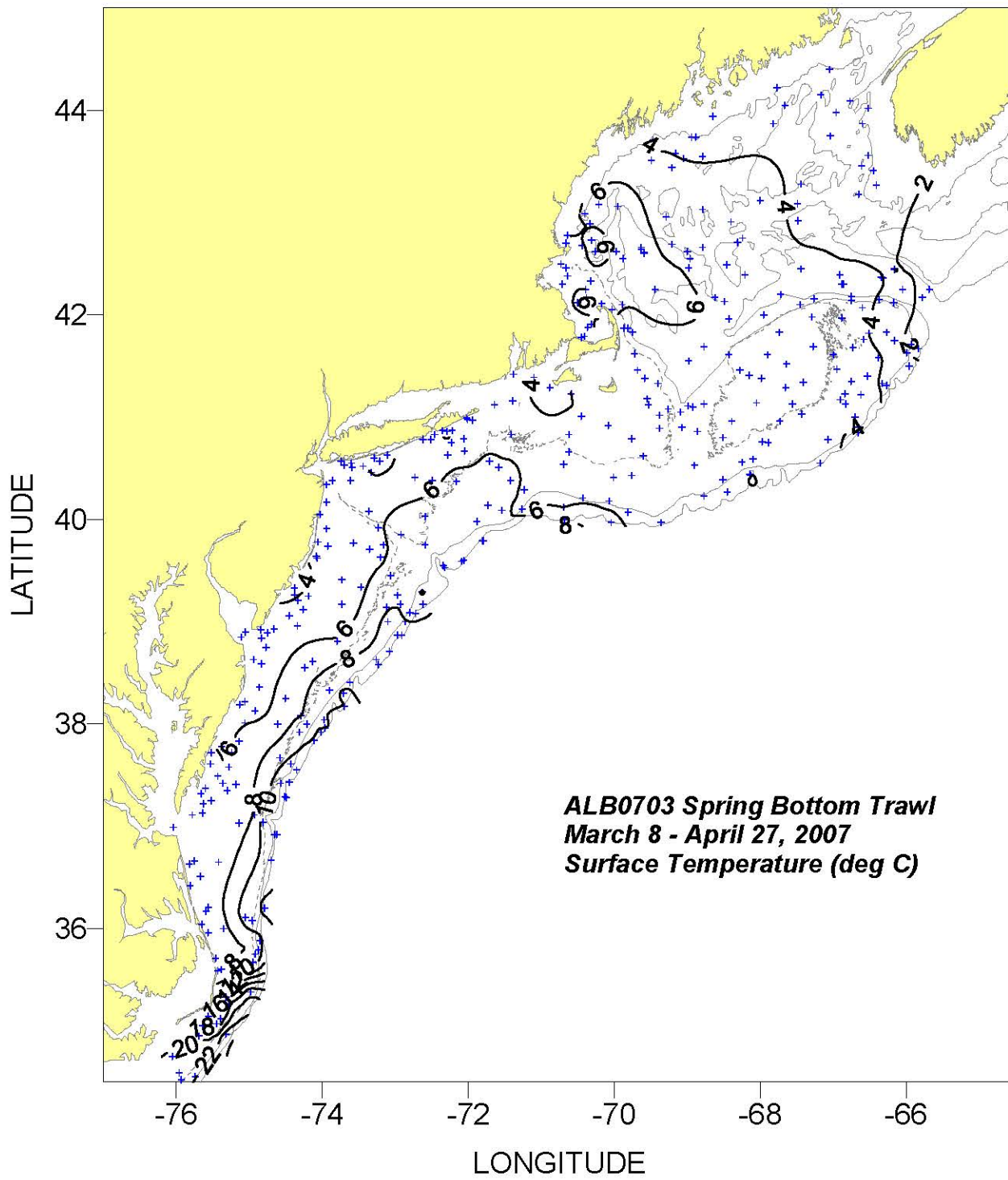
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

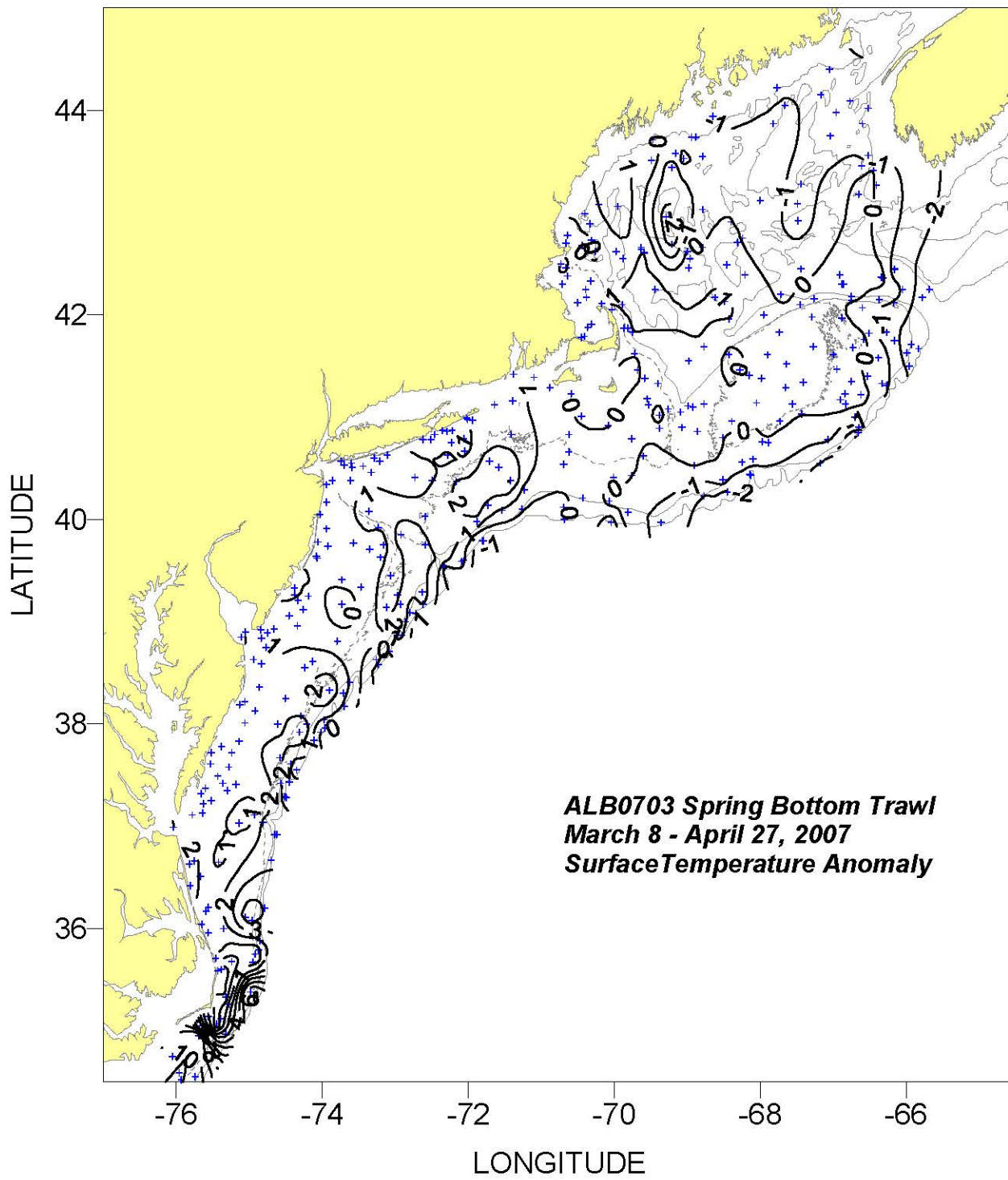
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

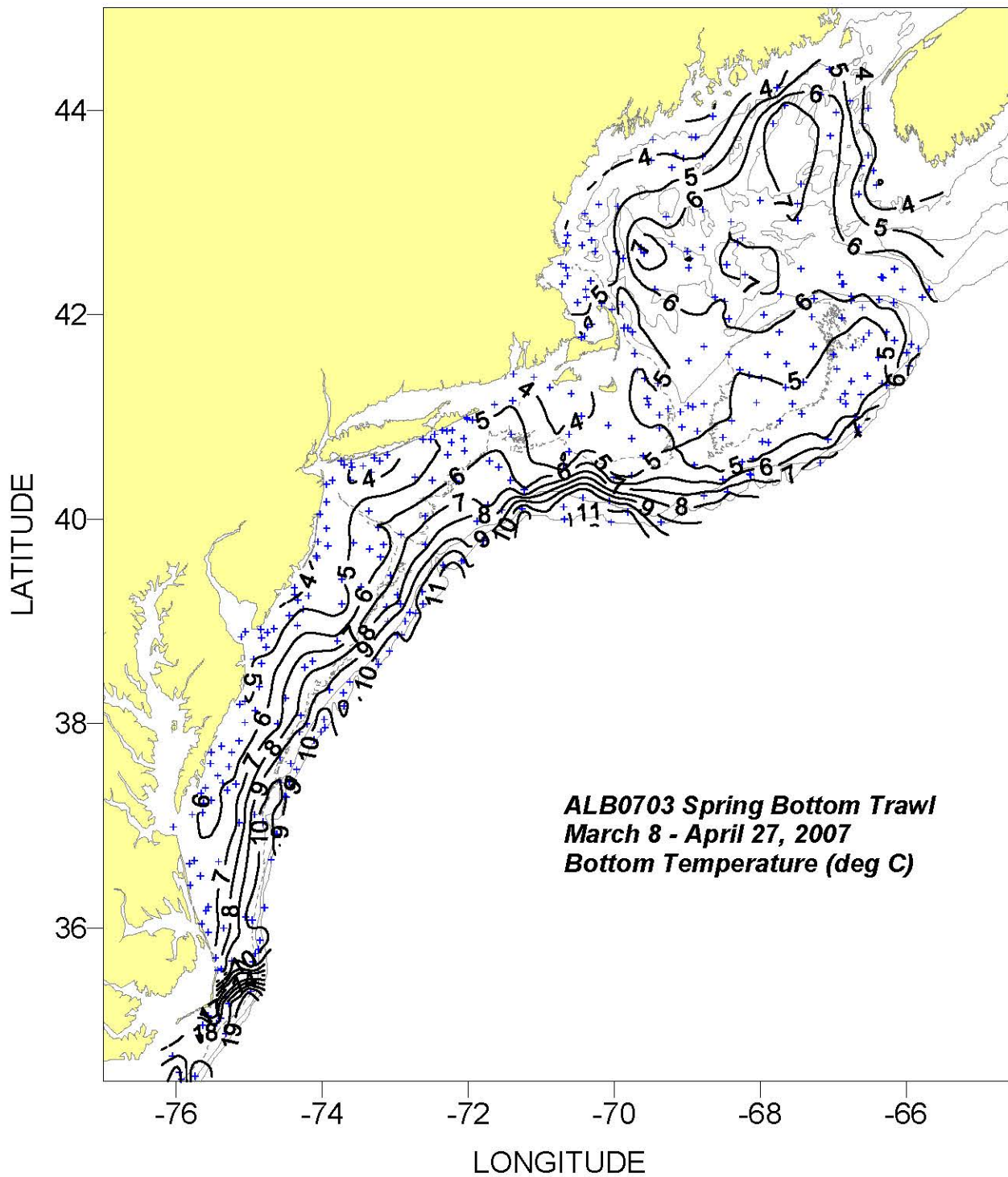
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

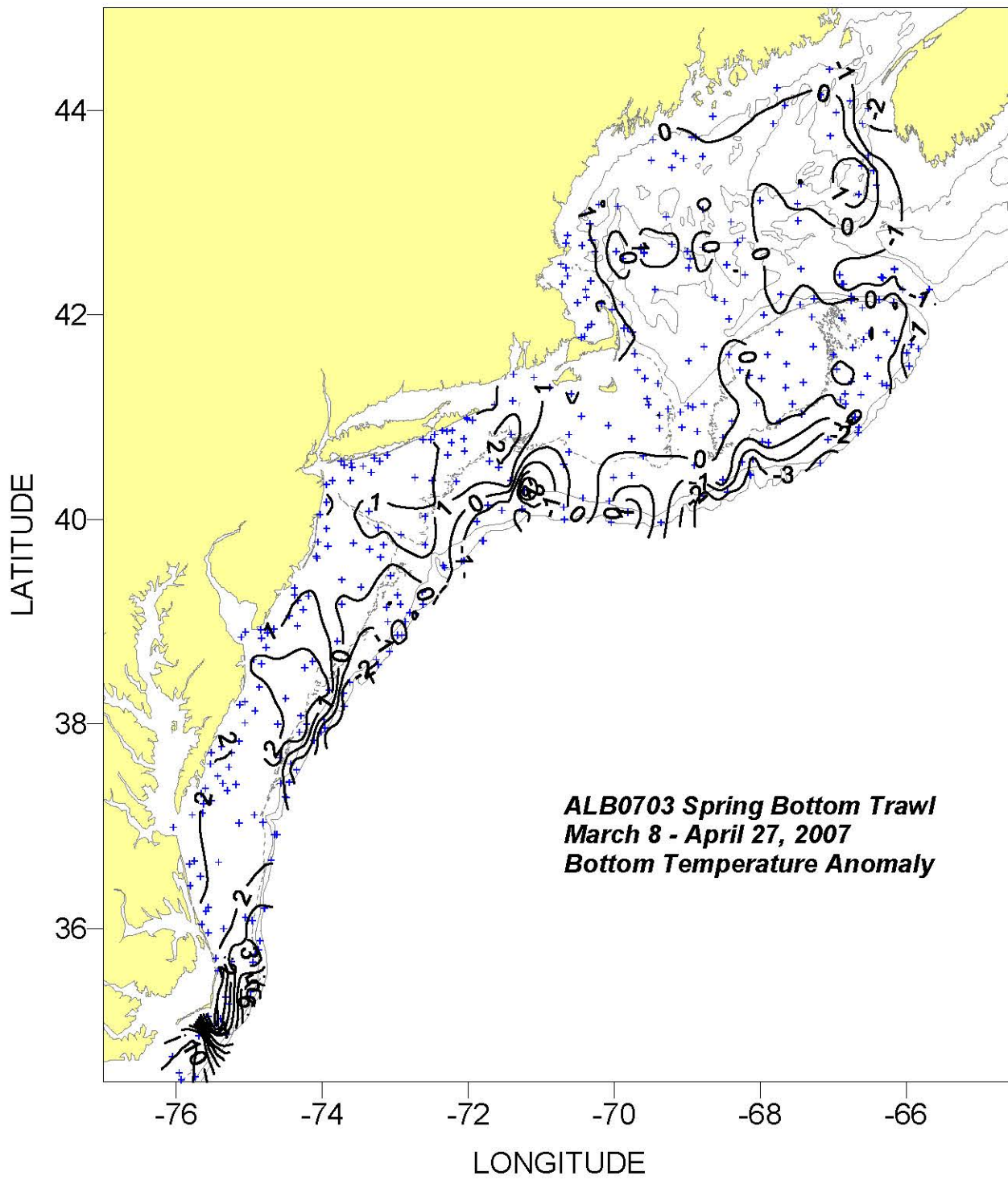
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

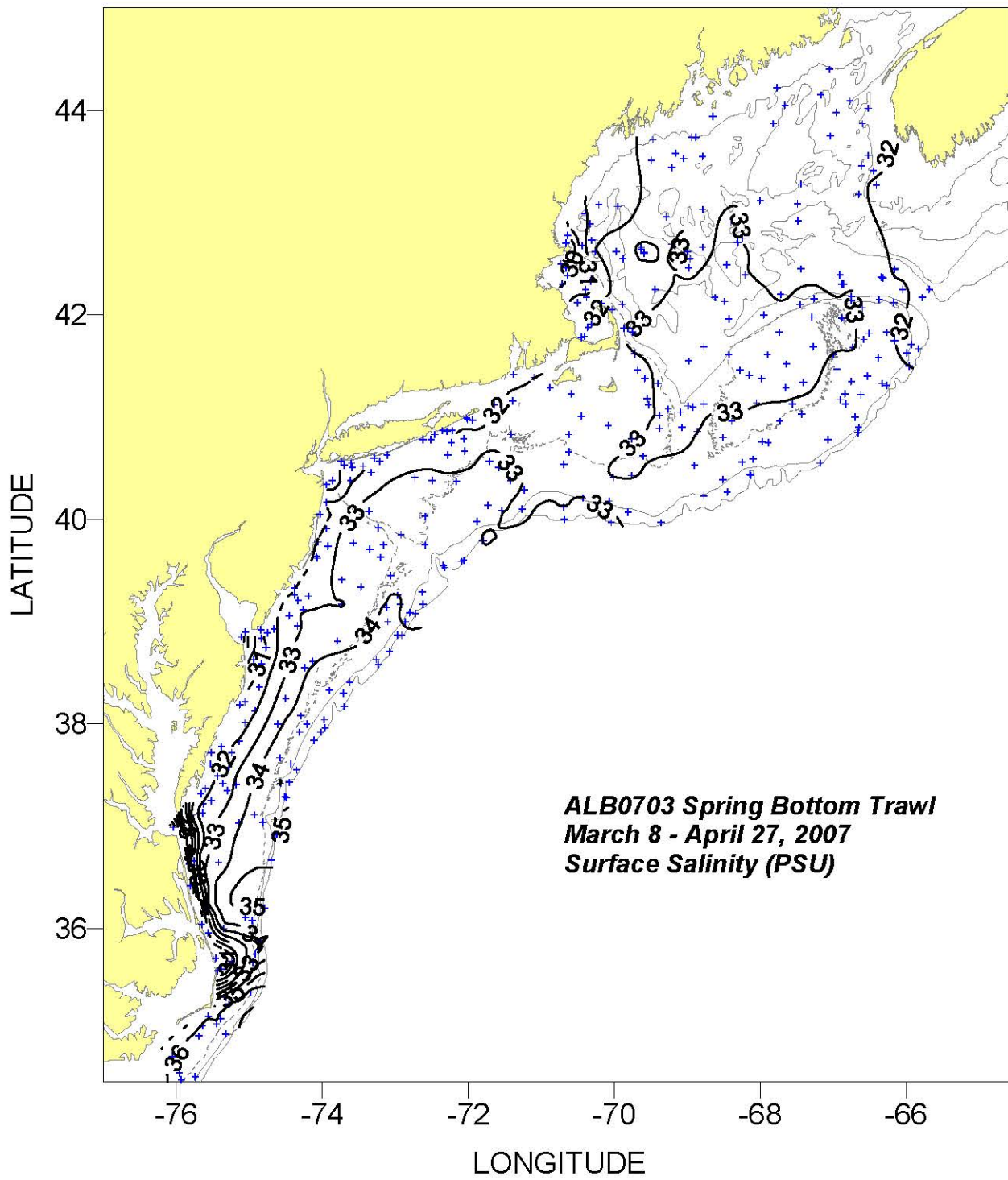
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

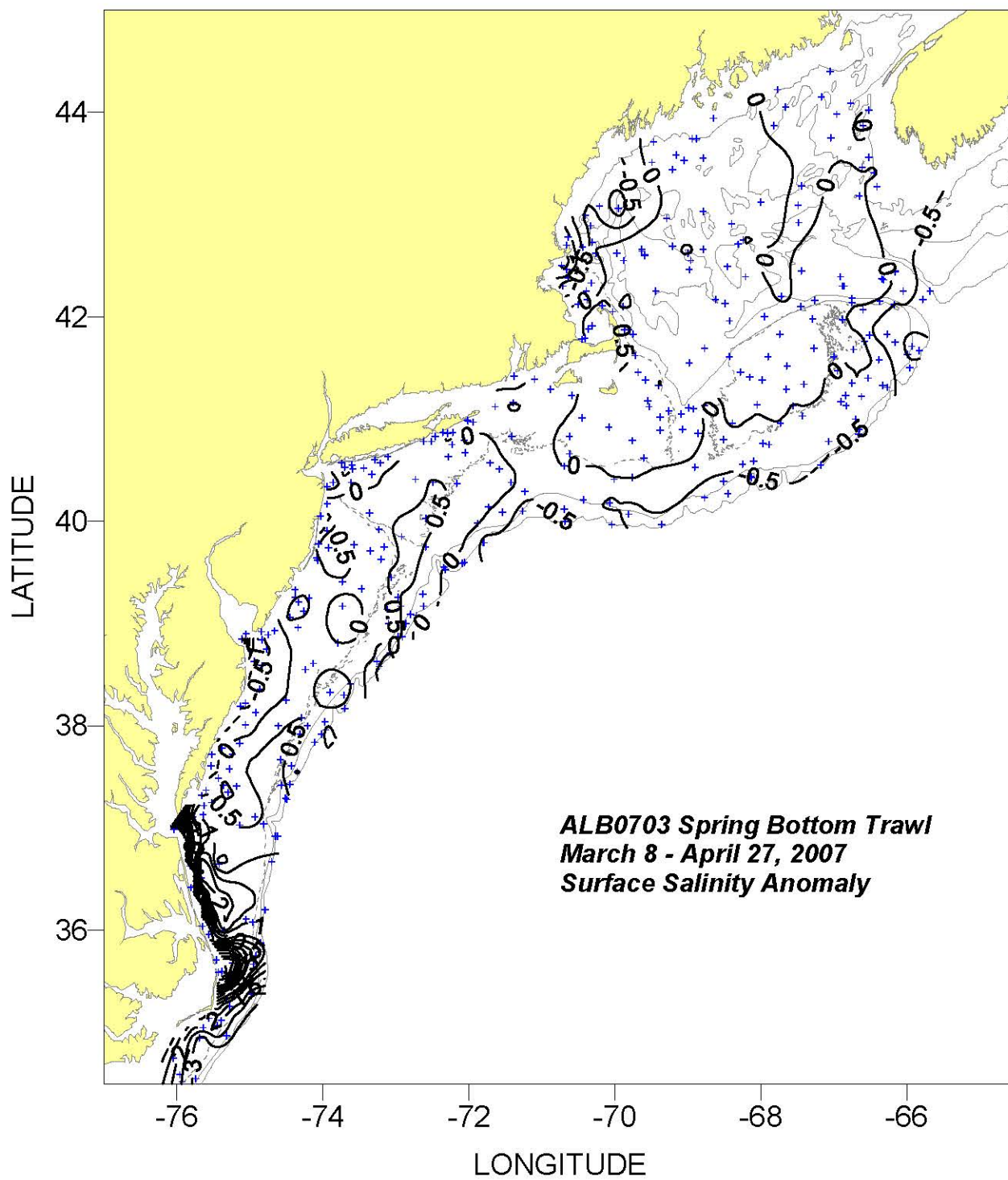


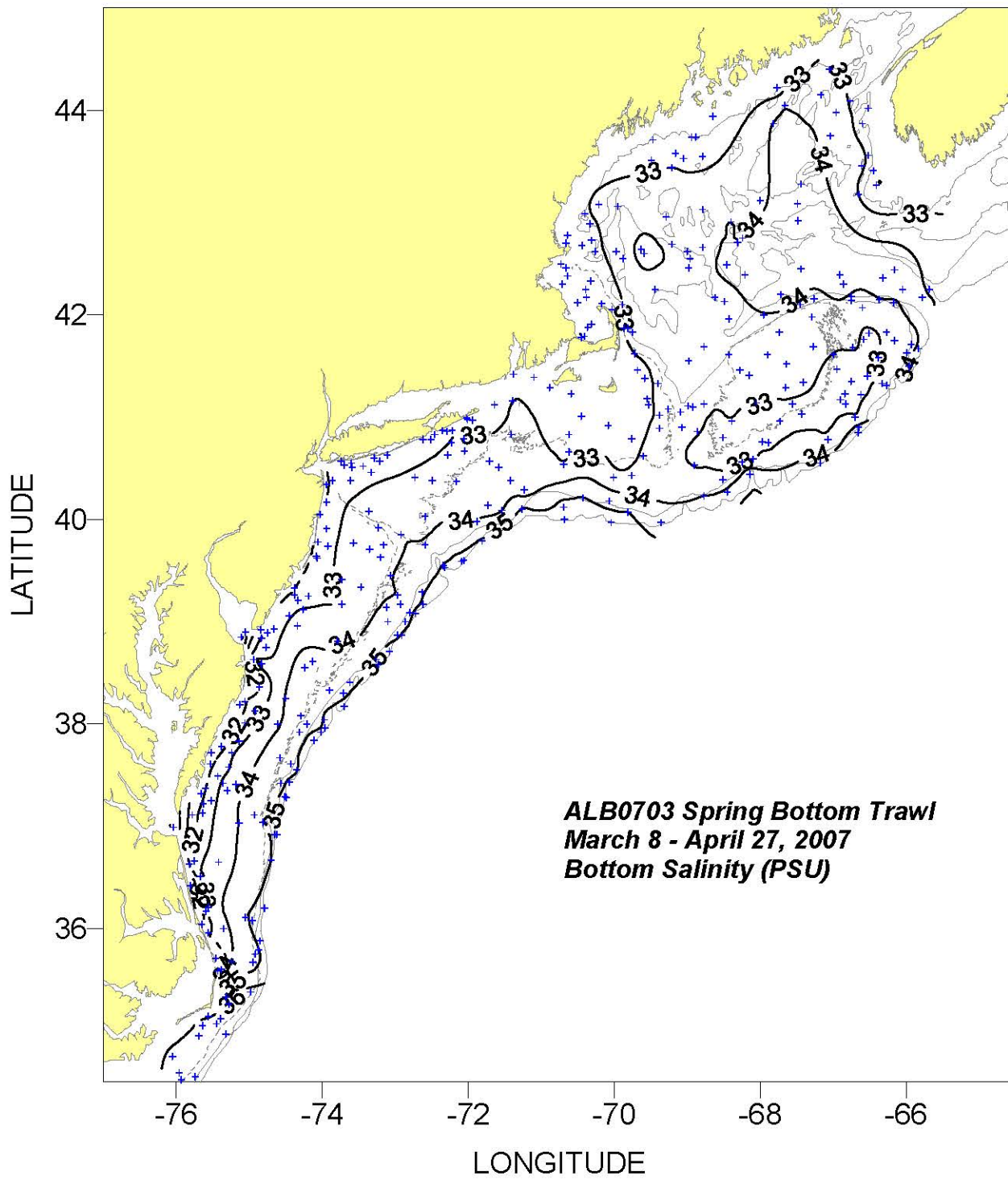


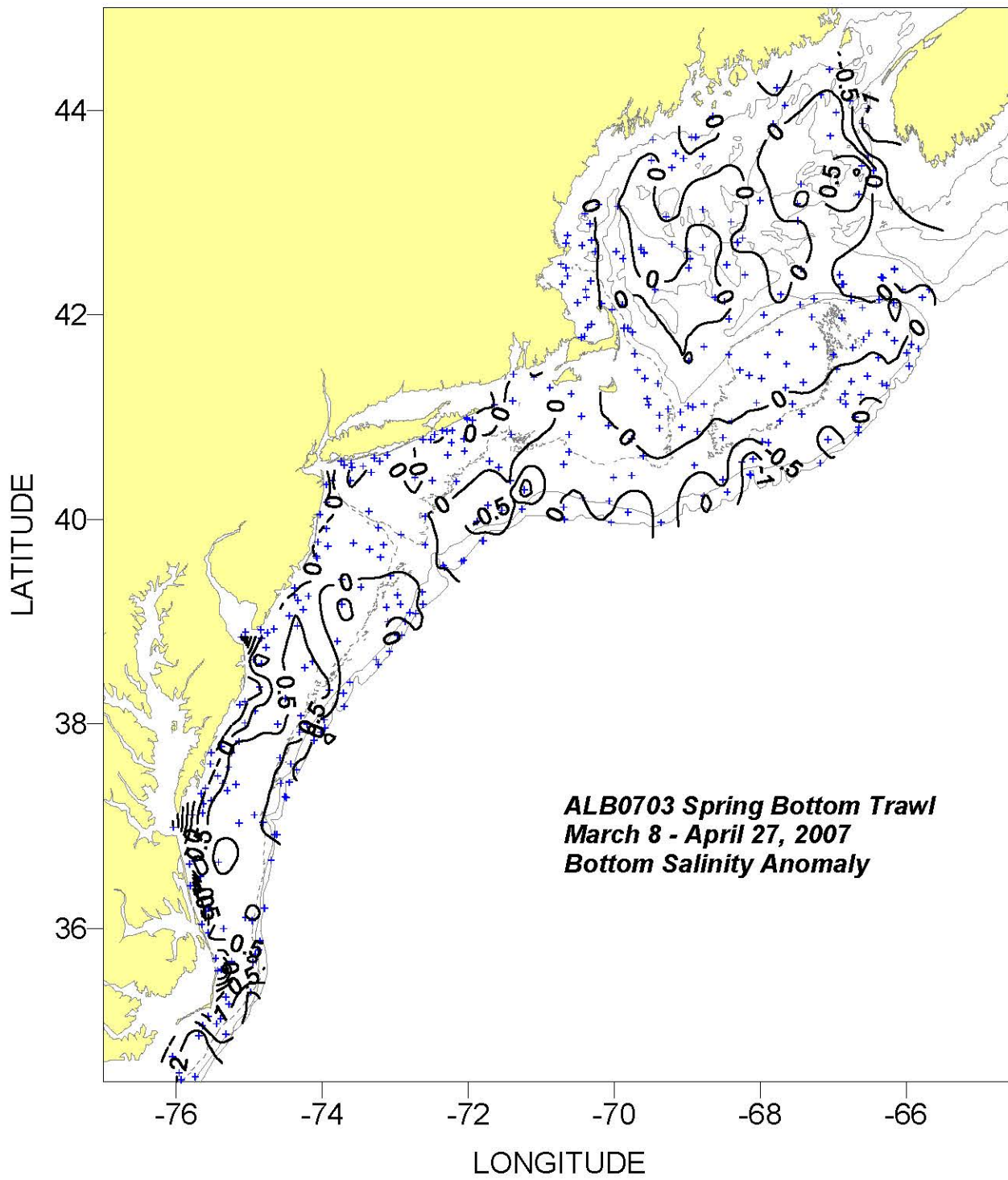












ALB0703 Spring Bottom Trawl Survey
8 March - 27 April 2007

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
3	1	3851.9	7254.3	8	3	2007	11:34	288	8.98	34.38	9.31	35.21	11
4	2	3852.3	7257.9	8	3	2007	13:41	107	8.95	34.33	10.36	34.78	7
5	3	3842.3	7304.7	8	3	2007	15:43	194	8.36	34.13	10.63	35.31	5
6	4	3837.7	7315.4	8	3	2007	18:17	107	8.51	34.21	10.14	34.82	2
7	5	3834.5	7313.6	8	3	2007	19:28	169	7.98	34.00	10.80	35.23	4
8	6	3824.7	7337.4	8	3	2007	22:30	108	9.88	34.73	10.21	34.83	4
9	7	3819.6	7353.9	9	3	2007	0:38	69	9.48	34.82	9.07	34.75	4
10	8	3817.7	7342.4	9	3	2007	2:19	116	10.17	34.85	10.15	34.88	6
11	9	3810.1	7342.0	9	3	2007	3:57	326	9.93	34.76	8.20	35.14	1
12	10	3802.6	7358.1	9	3	2007	7:10	121	10.15	34.78	11.07	35.11	4
13	11	3757.4	7357.4	9	3	2007	8:28	202	9.81	34.71	10.15	35.02	4
14	12	3755.4	7400.9	9	3	2007	10:04	156	10.25	34.82	10.57	34.97	8
15	13	3750.6	7406.3	9	3	2007	11:52	258	10.06	34.70	10.60	35.26	5
16	14	3759.7	7412.6	9	3	2007	14:28	73	8.92	34.67	8.91	34.67	5
17	15	3755.0	7418.8	9	3	2007	15:52	70	9.44	34.77	9.31	34.77	4
18	16	3804.6	7417.6	9	3	2007	17:32	53	7.85	34.25	8.17	34.43	7
19	17	3759.7	7436.7	9	3	2007	19:46	43	6.57	33.75	6.62	33.85	6
20	18	3740.3	7434.9	9	3	2007	22:12	53	9.42	34.71	9.18	34.73	3
21	19	3736.7	7425.7	9	3	2007	23:52	74	10.40	34.96	10.14	34.93	2
22	20	3733.0	7421.1	10	3	2007	1:07	108	10.51	34.89	10.22	34.96	4
23	21	3725.8	7427.0	10	3	2007	3:28	467	10.34	34.80	6.32	35.03	9
24	22	3725.1	7434.2	10	3	2007	5:50	83	11.09	35.07	10.26	34.97	5
25	23	3717.2	7430.3	10	3	2007	7:24	170	10.59	34.89	10.55	35.02	7
26	24	3716.6	7429.3	10	3	2007	9:01	308	10.65	34.90	8.41	35.15	7
27	25	3706.6	7455.6	10	3	2007	12:25	46	7.88	34.39	9.58	34.82	6
28	26	3701.9	7508.1	10	3	2007	14:04	38	6.95	33.92	7.01	33.98	7
29	27	3702.2	7448.3	10	3	2007	16:15	62	10.89	35.01	10.60	35.03	4
30	28	3655.2	7438.7	10	3	2007	18:01	101	11.04	34.89	10.67	35.04	4
31	29	3655.1	7437.2	10	3	2007	19:25	355	10.84	34.98	7.56	35.12	4
32	30	3640.3	7441.7	10	3	2007	21:55	137	10.82	34.86	10.55	34.98	4
33	31	3611.7	7447.2	11	3	2007	1:28	148	12.41	35.07	10.88	35.13	4

ALB0703 Spring Bottom Trawl Survey
8 March - 27 April 2007

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
34	32	3606.4	7503.0	11	3	2007	3:55	42	11.16	35.05	9.89	34.95	4
35	33	3604.8	7457.3	11	3	2007	5:04	49	11.29	35.02	10.93	35.13	4
36	34	3552.7	7451.2	11	3	2007	7:01	311	9.36	32.63	8.64	35.18	5
37	35	3547.5	7452.3	11	3	2007	8:38	116	9.69	32.68	10.27	34.95	5
38	36	3545.1	7454.9	11	3	2007	10:55	66	8.33	32.68	9.98	34.85	5
39	37	3540.2	7457.1	11	3	2007	12:13	49	8.54	33.67	8.80	34.41	6
40	38	3522.9	7458.8	11	3	2007	14:58	44	19.76	36.39	19.38	36.38	4
41	39	3515.6	7516.7	11	3	2007	17:28	28	18.19	36.33	18.15	36.33	4
42	40	3507.2	7523.4	11	3	2007	19:15	14	15.59	36.19	15.59	36.19	4
43	41	3504.0	7527.1	11	3	2007	20:17	24	15.64	36.04	15.76	36.08	1
44	42	3508.3	7533.8	11	3	2007	21:43	18	15.37	36.10	14.34	35.98	2
45	43	3502.9	7538.4	11	3	2007	23:10	27	17.21	36.10	17.77	36.38	3
46	44	3457.0	7541.3	12	3	2007	0:26	31	19.68	36.44	19.47	36.42	3
47	45	3444.9	7603.0	12	3	2007	3:02	30	20.69	36.50	18.73	36.40	4
48	46	3435.3	7557.7	12	3	2007	4:39	42	21.87	36.42	20.61	36.46	3
49	47	3431.1	7555.7	12	3	2007	5:40	55	21.79	36.41	20.31	36.39	5
50	48	3433.2	7544.1	12	3	2007	7:15	143	21.77	36.40	16.42	36.13	3
51	49	3458.0	7519.1	12	3	2007	11:07	149	23.47	36.27	18.54	36.41	4
52	50	3519.5	7519.0	12	3	2007	13:58	24	14.15	34.82	15.74	36.29	6
53	51	3535.8	7522.8	12	3	2007	16:46	19	7.20	27.44	7.23	31.22	5
54	52	3535.4	7525.8	12	3	2007	17:58	16	7.26	27.66	6.91	32.05	2
55	53	3540.5	7514.1	12	3	2007	19:53	34	7.41	28.13	11.21	34.15	2
56	54	3542.3	7527.7	12	3	2007	21:38	18	7.89	26.72	6.73	32.19	2
57	55	3559.9	7521.2	13	3	2007	0:04	23	7.56	33.66	7.22	33.66	5
58	56	3557.8	7533.3	13	3	2007	1:58	20	6.99	30.38	6.82	33.18	2
59	57	3602.3	7538.8	13	3	2007	3:10	14	7.44	27.94	6.54	30.53	3
60	58	3609.9	7535.1	13	3	2007	4:39	21	7.05	30.43	6.73	33.09	5
61	59	3612.8	7533.8	13	3	2007	5:40	26	7.16	33.15	6.66	33.34	6
62	60	3625.1	7548.3	13	3	2007	7:52	12	7.37	24.81	6.73	29.27	5
63	61	3630.8	7539.9	13	3	2007	9:25	23	6.76	32.47	6.27	32.97	4
64	62	3639.2	7524.9	13	3	2007	11:25	23	6.71	33.05	6.45	33.18	5
65	63	3639.4	7544.9	13	3	2007	13:43	14	7.00	31.24	6.18	32.63	5

ALB0703 Spring Bottom Trawl Survey
8 March - 27 April 2007

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
66	64	3637.5	7549.4	13	3	2007	14:55	16	7.22	25.12	6.01	32.51	4
67	65	3659.4	7602.5	13	3	2007	17:49	10	7.05	21.76	6.19	29.04	3
68	66	3706.6	7546.9	13	3	2007	20:46	10	6.34	31.54	6.36	31.52	3
69	67	3707.8	7538.2	13	3	2007	22:12	17	6.34	32.32	5.69	32.38	5
70	68	3713.1	7537.8	13	3	2007	23:36	15	5.97	32.08	5.96	32.08	4
71	69	3719.2	7539.5	14	3	2007	0:45	11	6.30	31.77	6.06	31.78	3
72	70	3722.2	7535.7	14	3	2007	1:49	12	6.28	31.82	6.17	31.87	3
73	71	3715.2	7530.9	14	3	2007	3:13	21	6.18	32.05	5.49	32.62	4
74	72	3729.3	7526.0	14	3	2007	5:13	21	6.16	32.05	5.42	32.65	6
75	73	3724.9	7521.6	14	3	2007	6:31	26	6.28	32.38	5.94	33.17	5
76	74	3720.9	7518.1	14	3	2007	7:40	27	6.47	32.58	6.39	33.58	4
77	75	3724.7	7510.5	14	3	2007	8:58	29	6.52	33.19	6.22	33.51	5
78	76	3734.7	7516.6	14	3	2007	10:52	25	5.90	32.42	5.40	32.88	5
79	77	3736.7	7531.8	14	3	2007	13:16	14	6.64	31.57	5.68	31.84	4
80	78	3743.2	7531.4	14	3	2007	14:36	10	5.97	31.59	5.94	31.60	5
81	79	3746.7	7522.6	14	3	2007	16:25	12	6.01	31.55	6.02	31.56	4
82	80	3743.0	7514.1	14	3	2007	17:53	23	5.79	32.22	5.77	32.98	3
83	81	3749.5	7508.6	14	3	2007	19:15	24	6.19	32.04	5.26	32.77	3
84	82	3800.6	7503.8	14	3	2007	20:47	15	5.97	31.76	5.12	32.27	4
85	83	3811.1	7507.6	14	3	2007	22:21	13	5.49	31.41	5.30	31.47	4
86	84	3813.1	7503.6	14	3	2007	23:43	16	5.66	31.30	4.81	31.89	3
87	85	3808.0	7455.3	15	3	2007	1:16	23	5.60	31.87	5.58	32.86	3
88	86	3821.8	7451.7	15	3	2007	3:15	17	5.27	31.51	5.03	31.72	6
89	87	3815.2	7429.9	15	3	2007	5:33	40	6.83	33.57	7.34	34.13	4
90	88	3833.0	7414.1	15	3	2007	8:06	40	7.23	33.86	7.76	34.43	3
91	89	3836.3	7407.8	15	3	2007	9:31	50	6.90	33.92	7.52	34.33	5
92	90	3844.7	7446.1	15	3	2007	13:13	19	4.74	30.86	4.31	32.10	4
93	91	3835.5	7449.5	15	3	2007	14:53	28	5.24	31.23	5.55	33.31	3
94	92	3837.6	7456.2	15	3	2007	16:13	19	5.05	30.55	4.94	32.97	3
95	93	3850.7	7506.4	15	3	2007	18:22	15	4.34	27.16	4.02	28.51	4
96	94	3854.2	7502.7	15	3	2007	19:37	12	4.82	28.91	4.15	30.24	2
97	95	3850.1	7449.6	15	3	2007	21:37	14	4.98	30.67	3.99	32.04	4

ALB0703 Spring Bottom Trawl Survey
8 March - 27 April 2007

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
98	96	3855.4	7450.1	15	3	2007	22:57	13	4.75	31.04	4.04	31.62	3
99	97	3853.5	7444.9	16	3	2007	0:36	14	4.53	31.58	4.06	32.66	4
100	98	3855.7	7439.3	16	3	2007	1:40	11	4.61	31.76	4.51	32.47	2
101	99	3857.5	7420.4	16	3	2007	4:13	36	5.22	32.85	5.59	33.51	5
102	100	3903.6	7426.8	16	3	2007	5:48	16	4.71	32.88	4.71	32.90	4
103	101	3907.4	7415.7	16	3	2007	7:41	24	5.02	33.01	5.02	33.00	3
104	102	3914.8	7411.6	16	3	2007	9:49	22	4.38	32.64	4.37	32.62	5
105	103	3912.5	7419.7	16	3	2007	11:48	16	4.57	32.75	4.59	32.72	4
106	104	3915.6	7422.6	17	3	2007	11:37	17	3.54	32.08	3.61	32.07	4
107	105	3919.8	7422.9	17	3	2007	13:10	15	3.20	31.96	3.22	31.97	3
108	106	3924.5	7343.9	17	3	2007	17:07	32	5.01	33.38	4.99	33.38	6
109	107	3920.1	7328.1	17	3	2007	19:13	48	5.66	33.55	5.67	33.55	2
110	108	3909.9	7343.9	17	3	2007	21:32	35	4.40	32.90	4.43	32.91	4
111	109	3848.7	7347.5	18	3	2007	0:40	47	6.19	33.66	6.26	33.68	3
112	110	3900.2	7306.1	18	3	2007	4:49	81	8.45	34.18	8.89	34.41	5
113	111	3908.2	7307.1	18	3	2007	10:52	70	7.88	34.04	7.87	34.10	6
114	112	3915.4	7257.9	18	3	2007	13:46	71	7.70	33.98	7.71	33.98	5
115	113	3910.3	7255.7	18	3	2007	16:21	82	7.94	34.03	8.17	34.13	3
116	114	3900.1	7251.5	18	3	2007	19:08	118	7.84	33.80	10.16	34.69	4
117	115	3904.6	7243.2	18	3	2007	22:37	220	7.77	33.82	8.98	35.19	14
118	116	3905.2	7247.9	19	3	2007	11:06	120	7.81	33.83	10.34	34.79	4
119	117	3910.2	7237.1	19	3	2007	12:58	142	7.80	33.84	10.99	35.08	4
120	118	3917.3	7237.7	19	3	2007	14:30	129	8.06	33.97	10.32	34.93	3
121	119	3932.0	7219.3	19	3	2007	17:23	203	7.23	33.63	11.21	35.39	4
122	120	3933.0	7220.2	19	3	2007	19:10	113	7.35	33.67	10.59	34.83	3
123	121	3935.4	7205.4	19	3	2007	21:04	155	7.18	33.61	11.25	35.28	4
124	122	3936.0	7203.5	19	3	2007	22:40	198	7.35	33.68	9.05	35.20	3
125	123	3944.8	7235.3	20	3	2007	13:31	73	7.23	33.78	7.59	34.03	4
126	124	4001.7	7235.4	20	3	2007	16:25	63	6.89	33.78	6.79	33.78	5
127	125	3950.8	7255.2	20	3	2007	19:01	61	7.77	33.90	6.82	33.97	4
128	126	3944.9	7309.6	20	3	2007	21:02	45	5.42	33.47	5.28	33.53	2
129	127	3926.9	7303.7	20	3	2007	23:34	68	6.84	33.97	6.83	33.99	3

ALB0703 Spring Bottom Trawl Survey
8 March - 27 April 2007

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
130	128	3937.8	7311.9	21	3	2007	3:27	41	5.66	33.65	5.74	33.69	4
131	129	3942.5	7321.2	21	3	2007	5:11	36	5.67	33.64	5.66	33.64	3
132	130	3954.9	7313.9	21	3	2007	7:10	61	5.77	33.68	6.11	33.81	5
133	131	4004.9	7321.4	21	3	2007	9:07	43	5.27	33.49	5.84	33.69	6
134	132	3946.2	7333.9	21	3	2007	11:46	35	5.12	33.44	5.11	33.43	3
135	133	3944.4	7355.1	21	3	2007	14:03	26	4.31	32.64	4.32	32.73	4
136	134	3937.0	7404.1	21	3	2007	15:36	18	4.15	32.14	4.13	32.14	6
137	135	3938.4	7404.9	21	3	2007	16:49	17	4.37	32.18	4.33	32.18	5
138	136	3946.9	7403.7	21	3	2007	18:31	11	4.71	32.15	4.58	32.14	3
139	137	3954.8	7356.5	21	3	2007	20:10	20	4.70	32.39	4.43	32.47	3
140	138	4003.1	7401.8	21	3	2007	21:40	15	4.78	30.19	4.45	32.17	2
141	139	4010.1	7356.6	21	3	2007	23:07	19	4.64	32.26	4.50	32.26	3
142	140	4020.2	7356.1	22	3	2007	1:22	15	4.40	30.50	4.25	31.42	2
143	141	4022.8	7351.7	22	3	2007	2:52	23	4.40	29.92	4.55	32.97	2
144	142	4033.9	7344.5	22	3	2007	4:41	13	4.49	31.70	4.40	32.39	3
145	143	4031.9	7341.9	22	3	2007	5:49	17	4.40	31.46	4.10	32.66	4
146	144	4033.2	7335.9	22	3	2007	7:01	11	4.45	31.96	4.38	31.98	3
147	145	4030.7	7335.4	22	3	2007	8:11	19	4.33	31.52	3.96	32.48	4
148	146	4022.5	7336.3	22	3	2007	9:55	23	4.24	31.89	3.89	32.49	5
149	147	4031.1	7326.6	22	3	2007	12:01	19	4.28	31.87	3.76	32.25	5
150	148	4027.6	7319.6	22	3	2007	13:30	32	3.92	32.24	3.48	32.64	2
151	149	4035.8	7317.2	22	3	2007	15:31	18	3.21	32.29	3.11	32.33	3
152	150	4034.0	7312.4	22	3	2007	16:40	22	3.49	32.49	3.45	32.51	4
153	151	4037.9	7306.4	22	3	2007	17:53	16	3.43	32.37	3.40	32.38	4
154	152	4024.7	7244.0	22	3	2007	20:43	47	4.85	33.17	4.75	33.19	3
155	153	4022.6	7229.1	22	3	2007	22:47	49	5.54	33.36	5.49	33.37	4
156	154	4117.5	7052.7	26	3	2007	20:27	31	3.59	32.40	3.86	32.64	8
157	155	4123.3	7106.2	26	3	2007	22:10	25	3.70	31.98	3.64	32.45	4
158	156	4124.9	7122.9	27	3	2007	0:38	29	4.71	31.15	3.73	32.47	4
159	157	4109.7	7123.3	27	3	2007	2:37	33	4.56	32.62	4.95	33.10	6
160	158	4107.0	7138.3	27	3	2007	4:49	24	4.45	31.56	4.56	32.24	8
161	159	4049.6	7124.3	27	3	2007	7:31	59	5.09	32.46	5.79	33.29	7

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Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
162	160	4030.3	7134.6	27	3	2007	10:16	75	6.22	33.27	6.36	33.51	4
163	161	4034.3	7142.7	27	3	2007	11:45	67	6.40	33.44	6.23	33.46	5
164	162	4039.9	7202.8	27	3	2007	14:04	50	5.03	32.32	5.63	33.30	4
165	163	4047.6	7203.8	27	3	2007	15:28	41	5.14	32.33	5.37	33.19	2
166	164	4058.4	7156.1	27	3	2007	17:32	26	5.06	31.54	4.88	32.42	6
167	165	4058.7	7200.6	27	3	2007	18:34	20	5.04	31.84	4.74	32.05	4
168	166	4059.1	7201.0	27	3	2007	19:43	15	5.62	31.76	4.80	31.98	4
169	167	4051.9	7212.9	27	3	2007	21:25	30	6.09	31.69	5.26	32.86	4
170	168	4045.2	7213.8	27	3	2007	22:55	44	5.97	32.30	4.90	33.06	6
171	169	4051.3	7217.1	28	3	2007	0:06	28	6.45	31.72	5.24	32.73	5
172	170	4052.1	7221.2	28	3	2007	1:07	13	5.74	32.05	5.39	32.12	6
173	171	4049.6	7227.5	28	3	2007	2:15	17	5.89	32.25	5.16	32.49	5
174	172	4046.5	7230.8	28	3	2007	3:32	28	5.93	32.30	4.46	32.58	5
175	173	4046.8	7237.4	28	3	2007	4:48	16	6.41	32.07	4.96	32.50	5
176	174	4037.5	7216.7	28	3	2007	7:37	47	5.15	32.21	5.28	33.24	6
177	175	4022.0	7209.6	28	3	2007	9:55	61	6.90	33.35	6.11	33.57	9
178	176	4008.1	7143.7	28	3	2007	12:41	81	6.81	33.20	6.66	33.62	6
179	177	3958.6	7152.5	28	3	2007	14:23	96	7.06	33.28	8.59	34.03	7
180	178	3947.2	7147.2	28	3	2007	16:30	290	6.20	32.89	9.76	35.26	60
181	178	3947.6	7148.4	28	3	2007	17:01	264	6.19	32.90	9.02	35.19	5
182	179	4005.1	7132.5	28	3	2007	20:04	89	5.97	33.00	7.94	33.87	4
183	180	4022.7	7125.3	28	3	2007	22:37	77	7.11	33.28	6.43	33.52	4
184	181	4017.1	7113.6	29	3	2007	0:28	84	5.42	32.91	5.46	33.30	7
185	182	4005.9	7115.6	29	3	2007	2:19	135	5.75	32.82	11.57	35.37	4
186	183	4000.2	7041.0	29	3	2007	5:46	253	9.14	33.96	9.88	35.26	7
187	184	4007.1	7041.1	29	3	2007	8:22	131	5.44	32.90	11.61	35.38	9
188	185	4012.7	7025.7	29	3	2007	11:07	114	5.52	32.99	11.83	35.14	8
189	186	4032.3	7041.5	29	3	2007	15:06	71	4.27	32.83	3.80	32.98	2
190	187	4039.8	7037.1	29	3	2007	16:46	60	4.60	32.91	4.34	32.92	5
191	188	4049.6	7037.0	29	3	2007	18:19	55	4.51	32.85	4.35	32.93	6
192	189	4100.4	7026.7	29	3	2007	20:16	43	4.08	32.70	3.87	32.74	5
193	190	4113.9	7035.4	29	3	2007	22:17	29	3.98	32.43	3.17	32.44	5

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Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
194	191	4055.0	7004.9	30	3	2007	1:36	24	4.23	32.71	4.26	32.72	4
195	192	4047.4	6945.4	30	3	2007	3:37	37	4.52	32.90	4.51	32.90	9
196	193	4037.2	6935.7	30	3	2007	5:40	58	4.43	33.04	4.54	33.07	6
197	194	4025.7	6945.6	30	3	2007	7:35	74	5.06	33.09	4.44	33.08	4
198	195	4024.4	7000.5	30	3	2007	9:23	78	5.61	33.07	4.77	33.11	8
199	196	4011.0	7004.1	30	3	2007	11:23	104	4.85	32.58	10.24	34.69	10
200	197	3958.3	7002.6	30	3	2007	13:49	176	7.55	33.48	11.61	35.39	9
201	198	4004.4	6948.5	30	3	2007	16:31	119	4.68	32.45	11.50	35.07	7
202	199	3958.2	6921.4	30	3	2007	19:19	127	4.79	32.40	9.37	34.46	5
203	200	4031.7	6853.9	31	3	2007	0:00	73	4.74	32.87	4.65	32.87	7
204	201	4013.7	6846.0	31	3	2007	2:31	120	4.70	32.53	7.40	34.04	4
205	202	4016.2	6827.2	31	3	2007	4:45	149	4.39	32.41	7.98	34.32	7
206	203	4023.5	6830.5	31	3	2007	6:45	100	4.52	32.52	5.19	33.17	8
207	204	4026.0	6807.9	31	3	2007	9:28	492	3.86	32.23	7.63	34.48	289
208	204	4026.2	6808.5	31	3	2007	9:56	278	3.90	32.25	6.72	34.85	5
209	205	4033.6	6814.7	31	3	2007	12:36	97	4.41	32.59	4.81	32.92	6
210	206	4035.1	6806.1	31	3	2007	13:58	95	4.40	32.56	4.73	32.87	5
211	207	4045.6	6758.4	31	3	2007	15:46	74	4.55	32.68	4.49	32.81	7
212	208	4045.2	6753.3	31	3	2007	17:01	72	4.56	32.70	4.46	32.71	6
213	209	4057.7	6743.9	31	3	2007	19:23	60	4.44	32.73	4.34	32.74	5
214	210	4107.5	6733.3	31	3	2007	21:25	56	4.49	32.89	4.49	32.89	6
215	211	4117.6	6738.7	31	3	2007	23:04	38	4.98	33.23	5.01	33.23	5
216	212	4131.4	6738.5	1	4	2007	0:49	37	5.33	33.29	5.34	33.29	5
217	213	4120.3	6724.7	1	4	2007	2:55	45	4.99	33.24	5.04	33.25	5
218	214	4102.0	6725.9	1	4	2007	5:15	66	4.30	32.64	4.33	32.69	6
219	215	4046.7	6704.1	1	4	2007	7:54	98	4.06	32.54	4.87	33.03	7
220	216	4033.0	6710.6	1	4	2007	9:58	172	4.43	32.76	7.68	34.73	8
221	217	4050.8	6639.5	1	4	2007	13:38	203	3.71	32.43	8.34	34.90	7
222	218	4054.1	6639.2	1	4	2007	15:01	112	3.87	32.39	8.38	34.26	1
223	219	4100.1	6642.1	1	4	2007	16:49	80	3.98	32.16	4.76	33.00	6
224	220	4107.6	6649.7	1	4	2007	18:27	73	5.08	32.70	4.60	32.86	5
225	221	4110.0	6653.8	1	4	2007	19:31	72	5.21	32.72	4.45	32.77	4

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226	222	4113.7	6650.5	1	4	2007	20:40	72	4.84	32.74	4.40	32.76	2
227	223	4112.9	6637.2	1	4	2007	22:22	85	5.30	32.82	4.57	32.86	5
228	224	4123.7	6631.8	2	4	2007	0:10	93	4.33	32.60	4.58	32.93	3
229	225	4120.7	6645.0	2	4	2007	1:49	76	4.85	32.72	4.23	32.76	5
230	226	4127.9	6657.1	2	4	2007	3:32	69	4.36	32.67	4.23	32.69	5
231	227	4141.6	6716.1	2	4	2007	6:15	55	5.52	33.31	5.52	33.31	8
232	228	4136.4	6700.1	2	4	2007	8:06	62	4.64	32.99	4.66	33.00	8
233	229	4140.9	6643.7	2	4	2007	10:10	70	4.69	33.04	4.74	33.06	7
234	230	4145.4	6634.5	2	4	2007	11:46	74	4.50	32.86	4.61	32.96	5
235	231	4148.9	6630.8	2	4	2007	12:51	77	3.86	32.47	4.46	32.89	7
236	232	4149.8	6615.9	2	4	2007	14:37	84	2.84	32.09	5.01	33.12	6
237	233	4144.8	6609.4	2	4	2007	15:52	92	2.79	32.05	5.48	33.36	3
238	234	4134.6	6622.8	2	4	2007	17:55	86	4.28	32.67	4.62	32.95	4
239	235	4120.0	6619.8	2	4	2007	19:58	96	3.80	32.46	4.89	33.09	5
240	236	4118.6	6616.3	2	4	2007	21:19	117	3.78	32.39	4.89	33.09	6
241	237	4130.0	6557.5	3	4	2007	0:07	194	3.16	32.12	7.28	34.69	10
242	238	4137.7	6559.6	3	4	2007	2:07	102	1.64	31.62	6.32	33.80	5
243	239	4142.8	6556.0	3	4	2007	3:47	110	1.41	31.53	6.16	33.70	6
244	240	4140.2	6549.8	3	4	2007	6:35	180	1.17	31.40	6.85	34.14	3
245	241	4210.2	6546.7	3	4	2007	12:25	241	1.41	31.63	7.11	34.79	8
246	242	4215.2	6540.9	3	4	2007	14:21	118	1.21	31.53	5.26	33.47	5
247	243	4226.9	6609.7	3	4	2007	19:13	241	1.90	31.74	7.78	34.71	39
248	243	4226.4	6609.5	3	4	2007	19:43	242	1.90	31.74	6.93	34.82	5
249	244	4222.1	6620.4	3	4	2007	21:43	252	4.33	32.71	6.74	34.80	49
250	244	4221.7	6619.0	3	4	2007	22:32	248	4.30	32.71	6.72	34.80	7
251	245	4215.0	6603.1	4	4	2007	1:40	257	3.21	32.19	6.85	34.76	5
252	246	4207.0	6609.9	4	4	2007	4:37	100	3.75	32.46	6.16	33.73	8
253	247	4209.1	6622.2	4	4	2007	7:09	180	3.70	32.50	6.57	33.98	7
254	248	4204.0	6635.8	4	4	2007	9:01	82	4.67	33.01	5.20	33.20	6
255	249	4157.9	6652.6	4	4	2007	10:51	63	5.12	33.19	5.13	33.19	10
256	250	4208.3	6645.0	4	4	2007	12:46	86	4.91	33.14	6.00	33.64	7
257	251	4210.5	6645.1	4	4	2007	14:13	190	5.05	33.16	6.22	33.73	5

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258	252	4217.8	6652.5	4	4	2007	16:00	298	4.33	32.72	7.43	34.69	97
259	252	4217.8	6651.7	4	4	2007	16:28	297	4.37	32.72	6.61	34.86	4
260	253	4223.1	6654.5	4	4	2007	18:12	351	4.19	32.59	6.29	34.86	7
261	254	4226.9	6726.3	4	4	2007	21:43	316	4.29	32.73	6.55	34.85	5
262	255	4209.5	6715.7	5	4	2007	1:31	144	5.33	33.24	5.83	33.54	8
263	256	4159.0	6717.4	5	4	2007	5:28	50	5.22	33.23	5.26	33.25	5
264	257	4206.1	6726.9	5	4	2007	8:19	95	5.36	33.26	5.99	33.63	8
265	258	4151.9	6951.9	10	4	2007	1:30	51	4.35	32.79	4.15	32.87	8
266	260	4152.3	6948.3	10	4	2007	3:37	93	4.64	33.17	4.73	33.22	3
267	261	4150.0	6945.2	10	4	2007	5:18	117	4.99	33.29	4.94	33.29	6
268	262	4137.2	6943.2	10	4	2007	7:33	39	4.35	32.98	4.42	33.00	4
270	263	4119.8	6923.8	10	4	2007	10:28	44	4.48	33.11	4.49	33.12	4
271	264	4104.8	6915.3	10	4	2007	12:26	54	5.05	33.29	5.06	33.29	4
272	265	4053.1	6922.5	10	4	2007	15:08	45	4.87	33.14	4.85	33.15	6
273	266	4053.9	6904.2	10	4	2007	17:42	80	5.39	33.17	5.27	33.18	6
274	267	4051.6	6851.7	10	4	2007	19:19	68	5.35	32.99	5.17	33.04	7
275	268	4047.8	6830.6	10	4	2007	21:37	46	4.83	32.72	4.86	32.74	2
276	269	4057.4	6823.6	10	4	2007	23:16	58	5.00	33.02	5.02	33.02	7
277	270	4107.9	6846.0	11	4	2007	2:04	76	5.21	33.05	5.21	33.05	4
278	271	4106.1	6854.9	11	4	2007	3:42	91	5.38	33.29	5.36	33.30	4
279	272	4106.5	6859.5	11	4	2007	4:55	91	5.39	33.34	5.39	33.34	2
280	273	4103.0	6905.2	11	4	2007	6:13	83	5.32	33.28	5.35	33.29	6
281	274	4132.9	6858.8	11	4	2007	9:40	137	5.62	33.38	5.63	33.39	6
282	275	4141.2	6846.3	11	4	2007	11:36	160	5.76	33.43	5.89	33.54	4
283	276	4136.8	6825.5	11	4	2007	14:30	55	5.20	33.14	5.15	33.14	8
284	277	4127.3	6816.8	11	4	2007	16:21	51	5.36	33.16	5.01	33.17	8
285	278	4124.8	6809.2	11	4	2007	17:52	41	5.21	33.16	5.00	33.16	5
286	279	4108.4	6803.1	11	4	2007	20:23	43	4.85	33.02	4.77	33.02	4
287	280	4122.7	6758.7	11	4	2007	22:25	40	5.07	33.17	5.09	33.17	22
288	281	4136.5	6754.1	12	4	2007	0:24	38	5.32	33.22	5.32	33.24	5
289	282	4149.9	6744.6	12	4	2007	2:34	38	5.56	33.28	5.55	33.28	6
290	283	4211.9	6742.9	12	4	2007	5:19	201	4.54	32.86	6.96	34.71	5

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291	284	4159.9	6756.9	12	4	2007	7:50	187	5.61	33.35	6.74	33.96	3
292	285	4157.5	6825.6	12	4	2007	10:41	177	5.85	33.46	6.22	33.71	5
293	286	4207.9	6829.1	12	4	2007	12:46	176	5.82	33.50	5.85	33.54	6
294	287	4210.2	6837.4	12	4	2007	14:16	185	5.87	33.50	6.05	33.62	3
295	288	4223.3	6812.6	12	4	2007	17:16	185	4.92	33.01	7.13	34.24	4
296	289	4229.5	6827.8	12	4	2007	19:31	216	5.42	33.42	7.43	34.33	3
297	290	4242.4	6818.6	12	4	2007	22:40	199	5.31	33.28	6.99	33.99	7
298	291	4244.9	6814.4	13	4	2007	0:01	185	4.54	32.87	6.85	33.94	5
299	292	4254.4	6823.8	13	4	2007	11:53	183	4.94	33.11	7.01	34.03	6
300	293	4307.4	6800.1	13	4	2007	16:25	181	4.72	33.02	6.44	33.78	2
301	295	4255.0	6728.5	13	4	2007	22:01	244	3.79	32.47	6.99	34.67	3
302	295	4255.0	6728.5	13	4	2007	22:13	244	3.68	32.43	7.02	34.58	43
303	296	4305.5	6729.5	14	4	2007	0:25	207	3.70	32.44	7.08	34.57	6
304	297	4317.0	6726.5	14	4	2007	2:58	198	3.73	32.46	7.11	34.34	5
305	298	4310.9	6639.1	14	4	2007	8:25	97	3.14	32.12	4.46	32.94	4
306	299	4316.2	6624.4	14	4	2007	13:11	74	2.79	31.84	2.80	31.85	7
307	300	4324.5	6626.7	14	4	2007	16:13	93	3.25	32.18	3.61	32.43	3
308	301	4327.7	6636.5	14	4	2007	17:49	96	2.92	32.08	5.09	33.21	6
309	302	4333.5	6631.0	14	4	2007	20:45	118	3.25	32.17	4.62	32.93	7
310	303	4344.7	6702.3	15	4	2007	0:19	158	3.58	32.36	6.49	33.74	7
311	304	4358.5	6657.3	15	4	2007	2:54	166	3.36	32.27	6.98	33.89	5
312	305	4352.3	6635.9	15	4	2007	5:45	105	3.66	32.44	3.83	32.52	4
313	306	4400.9	6631.3	15	4	2007	7:30	85	3.17	32.10	3.87	32.56	5
314	307	4405.1	6646.3	15	4	2007	9:28	97	3.36	32.28	4.49	32.84	4
315	308	4408.7	6709.9	15	4	2007	12:16	100	3.39	32.28	5.79	33.34	4
316	309	4423.8	6703.2	15	4	2007	14:53	142	3.32	32.33	5.55	33.26	5
317	310	4413.4	6746.2	18	4	2007	13:25	120	3.44	32.34	3.50	32.37	6
318	311	4402.8	6739.4	18	4	2007	16:25	210	3.68	32.39	7.44	33.97	11
319	312	4352.3	6749.1	18	4	2007	19:21	205	3.63	32.37	7.77	34.10	9
320	313	4356.4	6839.1	18	4	2007	23:51	91	3.06	32.16	3.04	32.19	8
321	314	4344.3	6852.9	19	4	2007	2:49	95	3.37	32.38	3.37	32.38	9
322	315	4344.1	6856.4	19	4	2007	4:52	60	3.35	32.36	3.36	32.37	5

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Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
323	316	4332.8	6847.1	19	4	2007	8:34	146	3.83	32.59	3.89	32.62	5
324	317	4331.9	6903.2	19	4	2007	11:31	105	3.94	32.66	3.93	32.67	6
325	318	4334.9	6909.8	19	4	2007	13:31	145	3.81	32.59	3.79	32.61	5
326	319	4342.6	6928.1	19	4	2007	16:51	119	3.52	32.46	3.50	32.48	5
327	320	4146.6	7026.7	24	4	2007	0:01	17	6.67	31.82	6.61	31.85	3
328	321	4147.2	7024.8	24	4	2007	1:17	21	6.75	31.92	5.28	32.09	4
329	322	4152.6	7021.7	24	4	2007	2:28	29	6.63	32.06	4.74	32.47	3
330	323	4154.7	7018.6	24	4	2007	3:37	33	5.70	32.27	5.14	32.45	3
331	324	4207.3	7029.7	24	4	2007	5:48	45	5.81	31.64	4.61	32.61	4
332	325	4210.0	7022.6	24	4	2007	7:07	62	5.42	31.48	4.66	32.64	4
333	326	4215.1	7023.5	24	4	2007	8:55	80	6.28	30.27	4.42	32.77	4
334	327	4220.0	7018.9	24	4	2007	10:16	33	6.38	30.35	4.07	32.54	5
335	328	4222.5	7038.5	24	4	2007	12:18	72	5.71	30.54	4.43	32.68	3
336	329	4218.1	7042.7	24	4	2007	13:36	31	6.79	29.66	4.34	32.55	5
337	330	4229.9	7044.0	24	4	2007	18:45	47	6.86	30.13	4.07	32.38	4
338	331	4227.4	7039.6	24	4	2007	21:45	72	7.45	28.94	4.20	32.77	4
339	332	4237.1	7015.3	25	4	2007	0:45	75	5.39	32.06	4.28	32.87	3
340	333	4243.7	7018.5	25	4	2007	4:16	61	5.67	31.49	4.00	32.76	5
341	334	4240.6	7026.1	25	4	2007	5:33	43	6.19	30.72	4.05	32.58	4
342	335	4241.7	7039.5	25	4	2007	6:58	23	7.83	25.82	4.09	31.53	5
343	336	4246.7	7038.6	25	4	2007	8:22	74	5.30	29.93	4.07	32.76	3
344	337	4253.1	7019.5	25	4	2007	10:48	72	6.10	31.10	4.26	32.86	3
345	338	4259.1	7024.2	25	4	2007	13:10	104	6.30	30.88	4.26	32.94	6
346	339	4304.5	7012.6	25	4	2007	15:34	169	6.04	31.70	4.30	33.15	1
347	340	4303.7	6956.9	25	4	2007	17:31	194	7.01	30.91	4.90	33.27	3
348	341	4330.5	6929.2	25	4	2007	21:22	125	4.60	32.35	4.14	32.77	2
349	342	4326.1	6912.5	25	4	2007	23:22	172	4.74	32.57	4.74	33.05	6
350	343	4302.0	6847.1	26	4	2007	3:12	198	5.07	32.82	7.03	33.92	5
351	344	4257.3	6917.6	26	4	2007	6:11	161	5.09	32.78	5.22	33.40	5
352	345	4241.4	6912.7	26	4	2007	8:51	165	4.97	32.94	6.68	33.85	6
353	346	4237.1	6859.9	26	4	2007	11:15	212	5.93	33.36	7.09	33.99	5
354	347	4239.8	6847.5	26	4	2007	13:10	161	5.17	32.70	5.83	33.53	3

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Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
355	348	4232.9	6857.6	26	4	2007	14:55	210	5.68	32.90	7.09	33.99	4
356	349	4227.8	6858.6	26	4	2007	16:25	226	5.81	32.87	6.69	33.84	6
357	350	4215.2	6926.2	26	4	2007	19:27	213	7.31	32.84	6.06	33.63	2
358	351	4236.3	6935.3	26	4	2007	22:19	287	6.76	33.16	7.44	34.13	86
359	351	4235.8	6935.6	26	4	2007	22:40	293	6.84	33.03	8.05	34.39	8
360	352	4239.3	6937.7	27	4	2007	0:09	282	6.79	33.14	7.74	34.22	81
361	352	4238.6	6937.9	27	4	2007	0:31	286	6.41	33.13	8.02	34.37	3
362	353	4237.4	6958.0	27	4	2007	2:55	182	6.16	32.63	4.88	33.25	2
363	354	4232.7	6953.0	27	4	2007	4:26	190	6.27	32.95	5.22	33.38	2
364	355	4206.2	6953.3	27	4	2007	7:37	116	6.29	32.03	4.35	33.00	6
365	356	4206.5	7009.9	27	4	2007	9:23	39	6.97	32.19	5.62	32.46	5
366	357	4202.8	7001.9	27	4	2007	11:01	25	6.96	32.25	6.09	32.38	7
367	358	4127.8	6940.5	27	4	2007	15:25	29	5.10	32.79	5.09	32.80	3
368	359	4122.6	6934.6	27	4	2007	16:37	30	5.10	32.82	5.07	32.83	5
369	360	4110.9	6932.7	27	4	2007	18:25	24	5.64	32.88	5.63	32.88	4
370	361	4107.3	6932.0	27	4	2007	19:57	24	5.93	32.92	5.76	32.92	3
371	362	4101.2	6923.0	27	4	2007	22:15	41	5.50	33.02	5.49	33.04	3