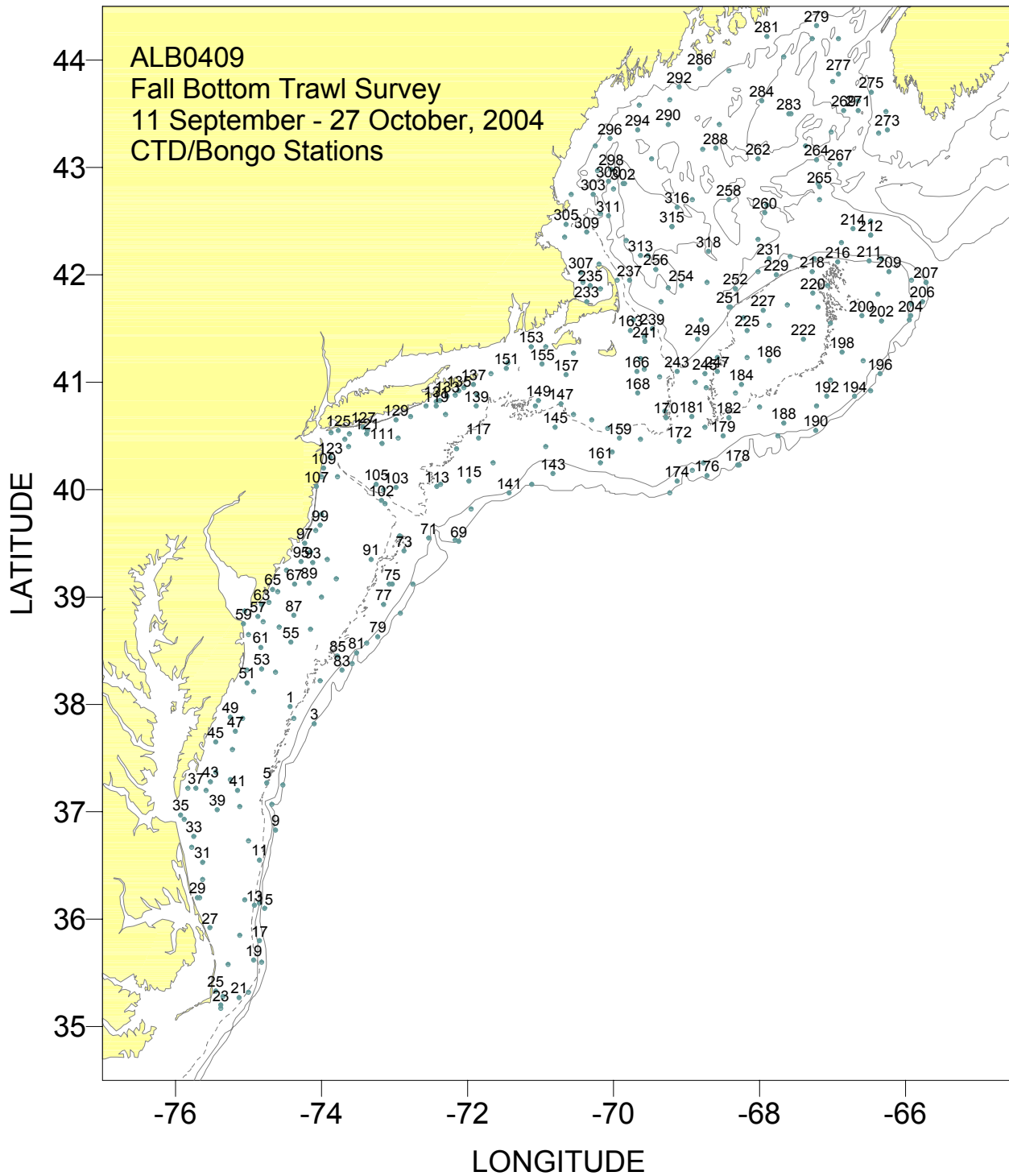


CTD REPORT

ALB0409 Fall Bottom Trawl Survey

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

DATE: November 2004



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the Fall Bottom Trawl Survey, ALB0409. (See Mountain, Taylor, and Bascunan, 2004)

CRUISE	CD	#obs	SURFACE					BOTTOM					Purpose	
			T / S	Anomaly	SDV1	SDV2	Flag	#obs	T / S	Anomaly	SDV1	SDV2		Flag
ALB0409	291	32	12.14	-0.25	0.17	0.91	0	28	7.74	-0.85	0.18	1.52	0	10
ALB0409	291	32	31.96	-0.65	0.12	0.33	0	28	33.93	-0.27	0.10	0.31	0	10
ALB0409	295	46	11.72	-0.14	0.15	0.84	0	43	6.55	-0.92	0.14	1.33	0	10
ALB0409	295	45	32.18	-0.35	0.10	0.22	0	43	33.20	-0.39	0.08	0.23	0	10
Gulf of Maine East														
ALB0409	282	46	14.99	-0.10	0.14	1.25	0	39	11.20	-1.38	0.19	1.85	0	10
ALB0409	282	46	32.31	-0.47	0.09	0.42	0	39	32.66	-0.33	0.11	0.25	0	10
Gulf of Maine West														
ALB0409	271	53	18.75	0.80	0.20	1.25	0	47	12.24	-0.14	0.23	3.18	0	10
ALB0409	271	53	32.74	0.10	0.13	0.43	0	47	32.82	-0.57	0.14	0.43	0	10
MAB North														
ALB0409	262	77	22.05	0.43	0.15	1.02	0	69	14.24	-0.18	0.19	3.66	0	10
ALB0409	262	77	32.00	-0.24	0.12	0.43	0	69	32.18	-0.99	0.11	1.38	0	10
MAB South														

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

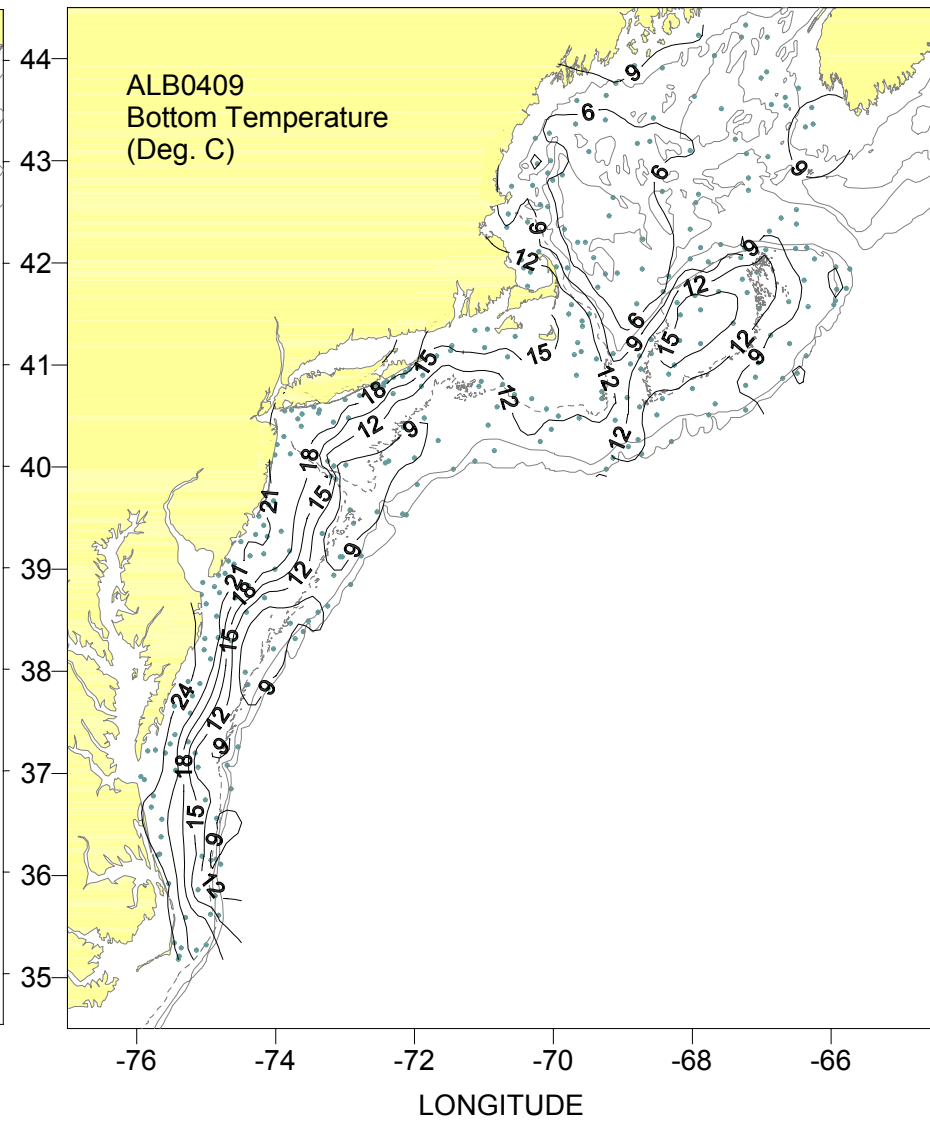
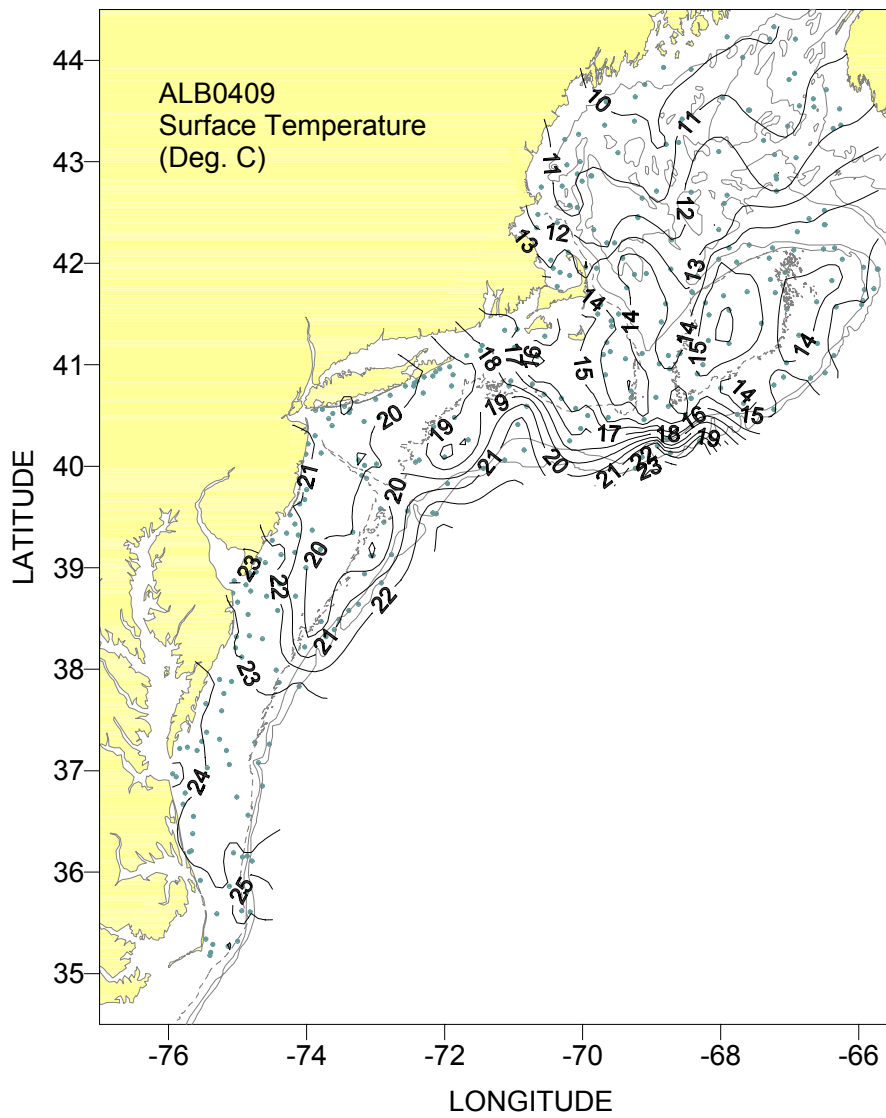
"# obs", the number of observations included in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly: "SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived.

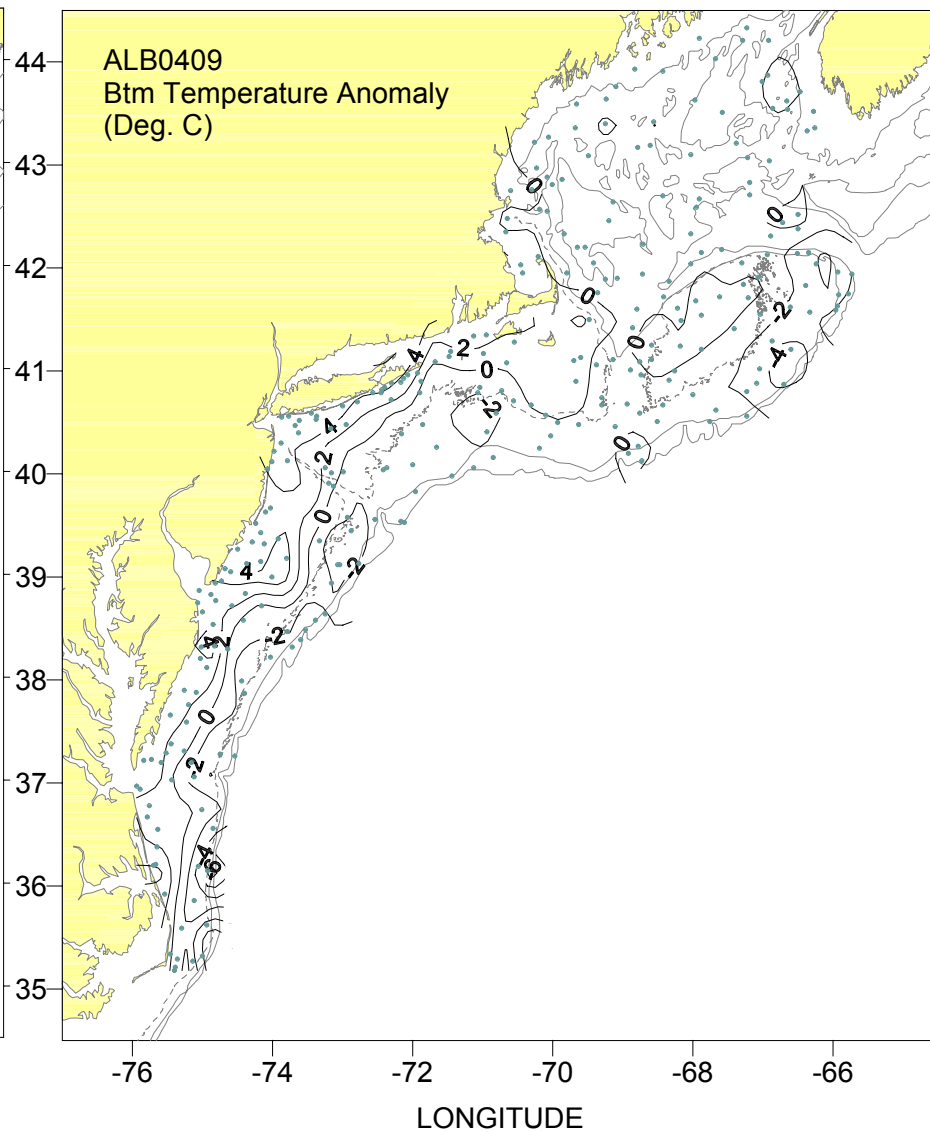
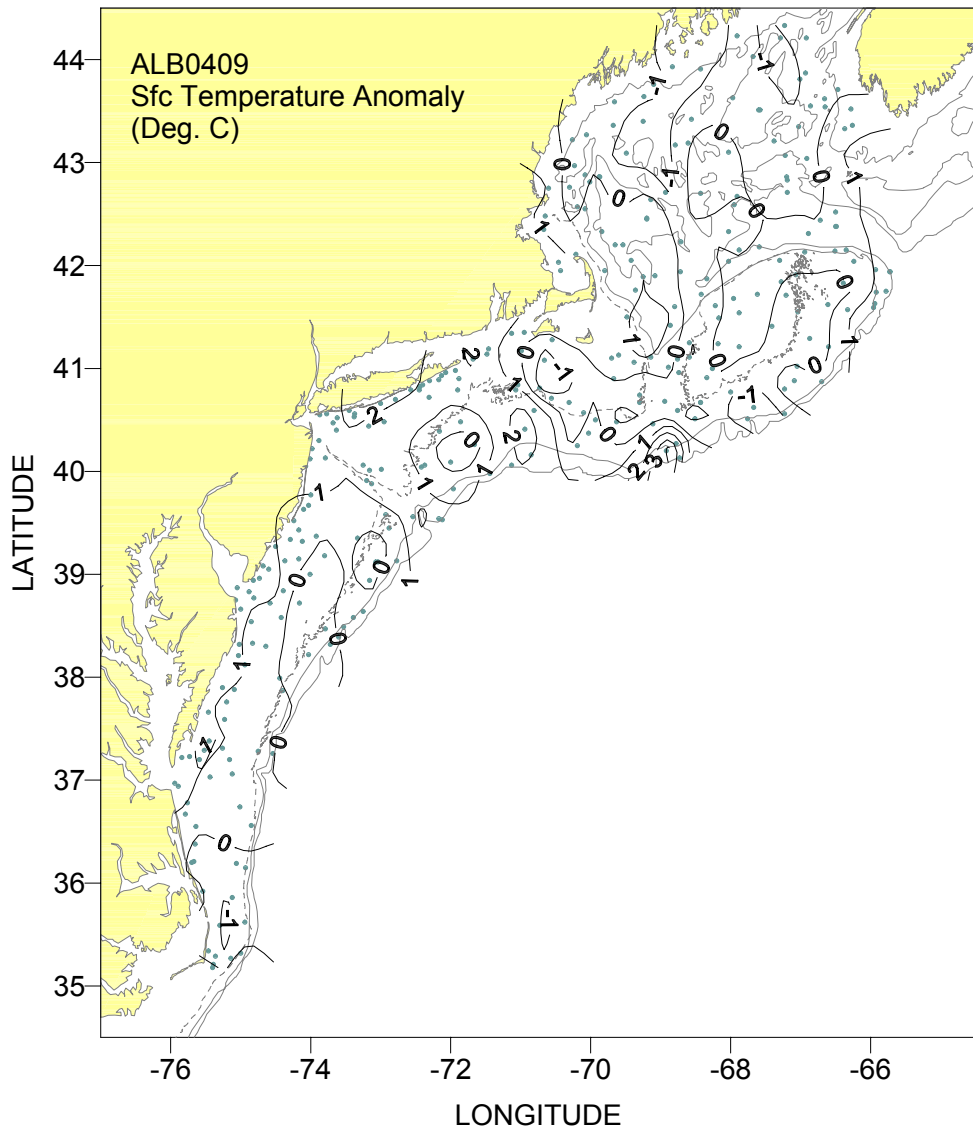
The

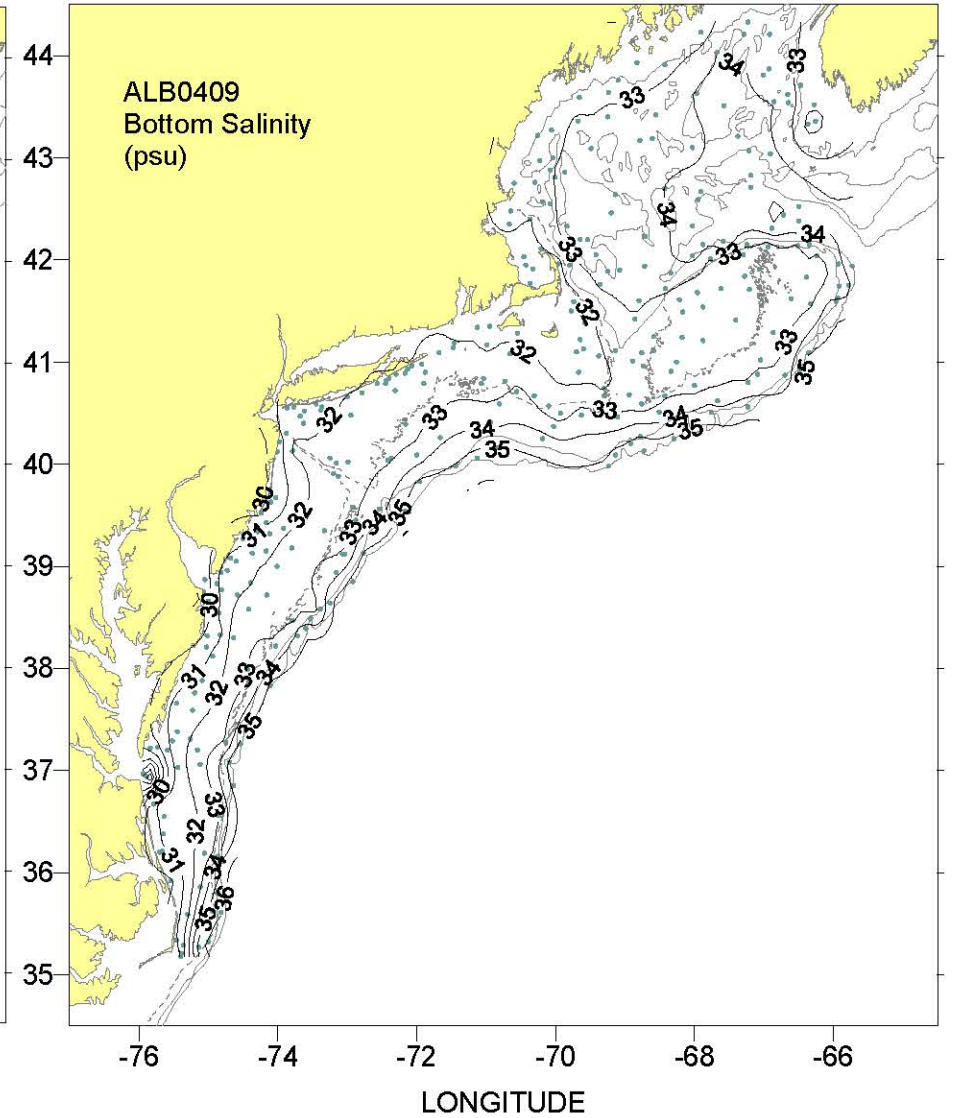
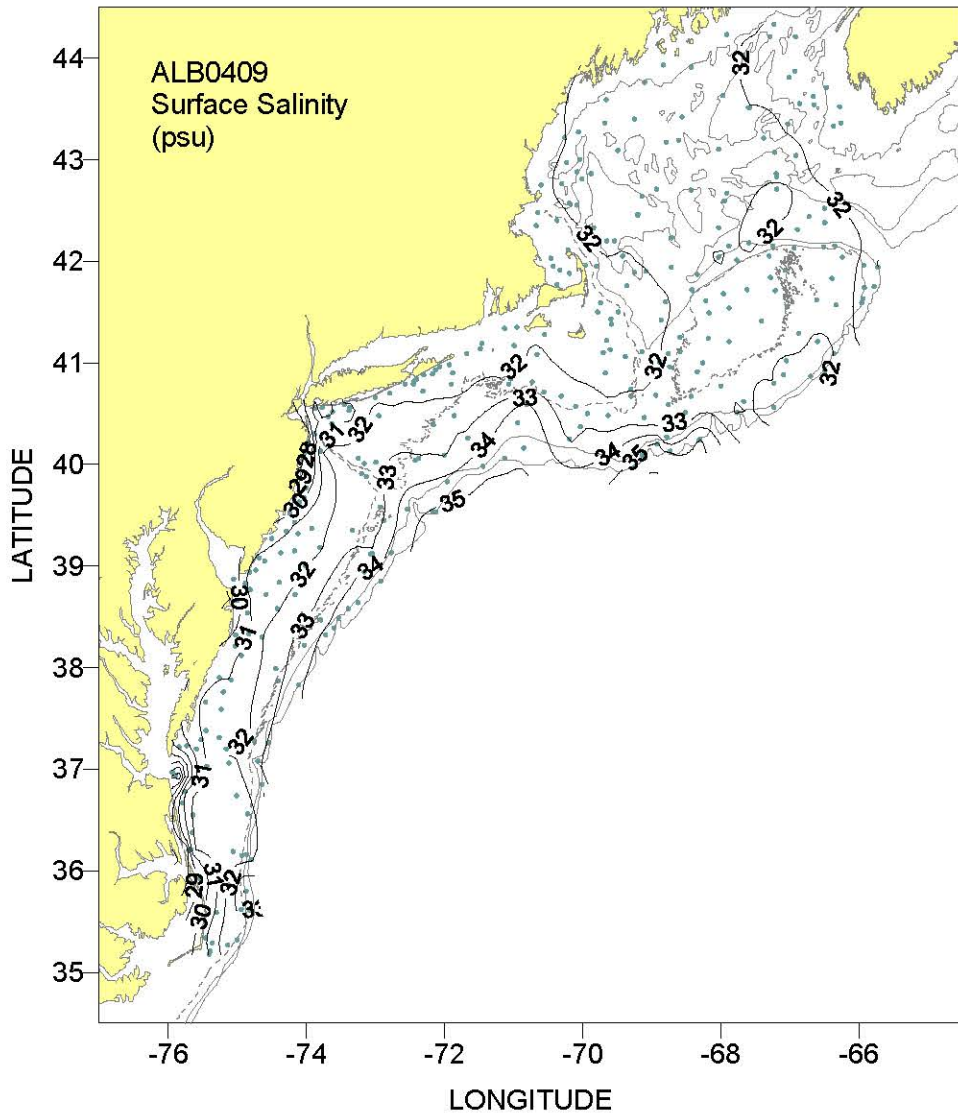
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. average values listed were derived from a simple average of the observations within the region.

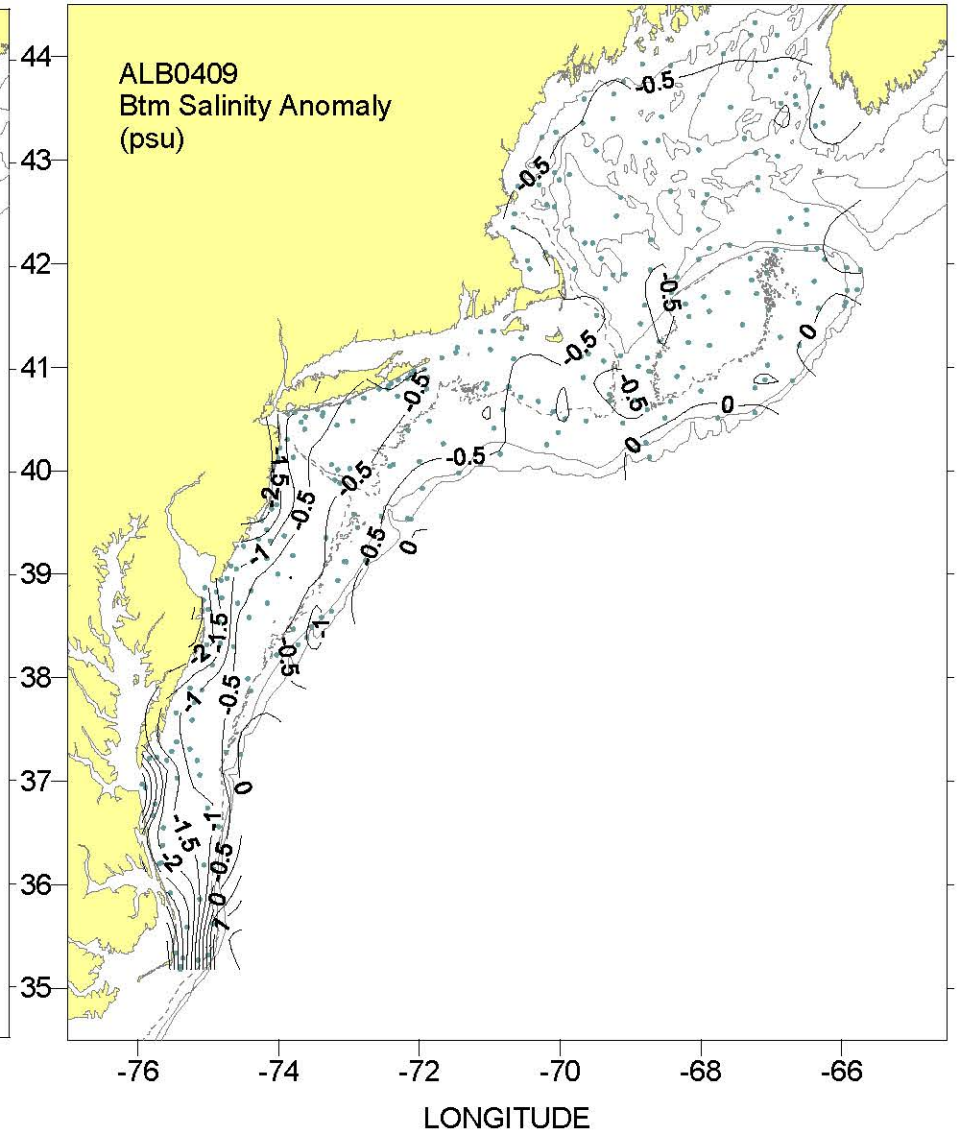
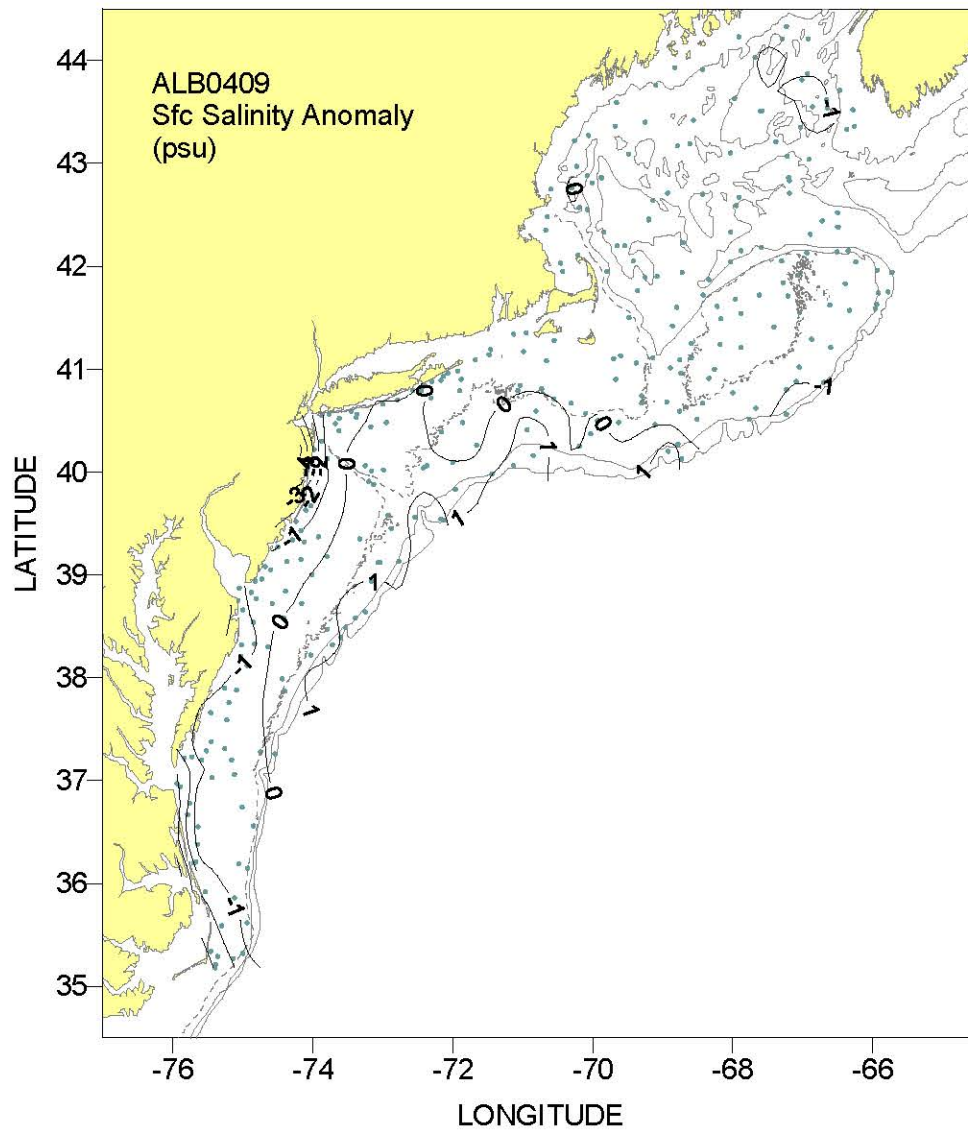
2 digit code assigned by DMS to identify a unique NEFSC program/ survey.

"Purpose",









ALB0409 Fall Bottom Trawl Survey
11 September - 27 October, 2004

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
1	1	3759.5	7426.2	11	9	2004	0:36	52	22.51	32.45	7.11	32.97	4
2	2	3752.1	7423.9	11	9	2004	2:19	59	22.78	32.77	7.25	33.00	5
3	3	3749.6	7406.5	11	9	2004	4:48	269	23.32	33.85	9.63	35.25	4
4	4	3715.4	7432.2	11	9	2004	9:11	129	23.19	33.18	11.64	35.34	5
5	5	3716.9	7445.0	11	9	2004	11:13	57	23.28	31.94	6.63	32.93	4
6	6	3704.7	7441.7	11	9	2004	13:10	160	23.16	32.97	11.21	35.33	1
10	9	3650.7	7438.3	11	9	2004	19:30	261	23.31	32.77	9.97	35.28	10
11	10	3644.5	7500.6	11	9	2004	21:31	31	23.96	31.43	13.78	32.41	4
12	11	3633.3	7451.2	11	9	2004	23:27	45	23.73	31.69	8.58	32.81	5
13	12	3611.6	7503.8	12	9	2004	2:19	35	24.19	31.58	13.83	32.65	6
14	13	3608.9	7455.5	12	9	2004	3:49	58	24.08	31.60	7.17	33.17	4
15	14	3609.8	7451.6	12	9	2004	4:58	84	23.97	31.60	7.44	33.45	6
16	15	3606.4	7447.6	12	9	2004	6:25	176	24.19	31.88	11.82	35.52	5
17	16	3551.8	7507.3	12	9	2004	9:13	35	23.92	32.07	12.11	32.84	5
18	17	3548.0	7451.9	12	9	2004	11:43	210	26.35	34.38	11.58	35.47	4
19	18	3536.6	7449.0	12	9	2004	13:40	131	25.00	32.07	14.22	35.85	3
20	19	3537.3	7456.1	12	9	2004	15:31	49	25.74	33.30	17.60	35.71	5
21	20	3519.3	7500.2	12	9	2004	17:52	65	24.40	32.74	19.85	36.14	5
22	21	3516.3	7508.2	12	9	2004	19:15	32	25.22	32.69	19.70	35.65	6
23	22	3510.7	7523.7	12	9	2004	21:00	14	24.27	30.99	24.23	31.01	5
24	23	3512.3	7523.5	12	9	2004	22:47	20	24.30	31.22	23.77	31.27	5
25	24	3517.2	7521.5	13	9	2004	0:28	22	24.24	31.46	21.90	31.65	5
26	25	3520.3	7527.4	13	9	2004	2:04	14	24.38	30.92	24.39	30.92	4
27	26	3535.4	7517.9	13	9	2004	4:22	23	24.18	31.12	20.66	31.76	6
28	27	3555.0	7532.1	13	9	2004	7:07	15	24.20	28.93	24.29	29.83	6
29	28	3612.3	7540.4	13	9	2004	9:26	18	23.74	30.92	23.70	30.92	5
30	29	3612.1	7542.2	13	9	2004	11:13	20	23.94	27.28	23.84	30.76	5
31	30	3622.6	7538.7	13	9	2004	13:18	22	23.62	30.82	22.19	31.14	5
32	31	3632.7	7538.1	13	9	2004	15:10	23	23.57	31.18	21.89	31.18	5
33	32	3640.1	7547.4	13	9	2004	17:01	17	24.06	29.71	22.46	30.83	4
34	33	3646.9	7545.6	13	9	2004	20:01	14	24.22	30.36	23.80	30.34	5
35	34	3656.1	7553.5	13	9	2004	21:19	7	25.67	22.10	25.67	22.10	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
36	35	3658.0	7556.1	13	9	2004	22:49	9	25.05	26.55	24.63	27.64	2
37	36	3713.1	7550.1	14	9	2004	1:13	10	24.72	29.52	24.58	29.53	5
38	37	3713.9	7543.8	14	9	2004	2:04	9	24.52	29.74	24.26	29.75	5
39	38	3712.2	7535.5	14	9	2004	3:34	16	24.35	30.52	23.97	30.88	5
40	39	3701.6	7526.4	14	9	2004	5:46	26	23.95	31.16	22.49	31.49	6
41	40	3703.4	7507.2	14	9	2004	7:52	37	23.36	31.74	9.68	32.67	5
42	41	3712.2	7509.3	14	9	2004	9:46	32	23.15	32.21	11.49	32.52	4
43	42	3718.6	7515.6	14	9	2004	11:19	27	23.09	31.61	16.87	31.96	5
44	43	3717.3	7531.1	14	9	2004	13:04	18	24.18	30.87	23.61	31.15	5
45	44	3722.6	7527.0	14	9	2004	14:31	26	23.66	31.32	22.83	31.60	5
46	45	3739.8	7527.3	14	9	2004	16:46	14	24.10	31.24	24.09	31.24	6
47	46	3735.6	7513.9	14	9	2004	18:32	24	23.48	31.37	21.90	31.61	4
48	47	3745.4	7511.7	14	9	2004	20:15	24	23.61	31.26	23.57	31.26	6
49	48	3752.5	7505.6	14	9	2004	21:57	13	23.24	30.97	23.24	30.97	4
50	49	3753.9	7515.3	14	9	2004	23:55	17	23.97	30.97	23.98	30.97	5
51	50	3807.2	7456.6	15	9	2004	2:58	22	23.05	31.29	23.07	31.35	5
52	51	3812.8	7501.5	15	9	2004	4:31	18	22.85	30.43	22.85	30.42	6
53	52	3819.4	7501.3	15	9	2004	7:04	14	23.06	30.17	23.06	30.18	6
54	53	3820.0	7449.5	15	9	2004	8:43	14	22.81	30.53	22.67	30.70	5
55	54	3818.0	7438.1	15	9	2004	10:49	36	22.79	32.06	11.57	32.57	5
56	55	3835.0	7425.2	15	9	2004	13:31	42	22.69	31.89	10.72	32.65	5
57	56	3843.1	7435.0	15	9	2004	15:28	25	22.79	31.38	18.36	31.86	6
58	57	3849.9	7452.8	15	9	2004	17:49	13	22.92	31.07	22.92	31.07	4
59	58	3852.3	7503.0	15	9	2004	19:38	13	23.03	29.27	23.02	29.33	4
60	59	3845.1	7504.1	15	9	2004	21:51	11	22.84	29.23	22.85	29.23	4
61	60	3839.4	7500.0	15	9	2004	23:28	19	22.98	29.02	23.00	29.13	4
62	61	3832.4	7450.7	16	9	2004	1:08	23	22.81	30.89	22.06	31.24	5
63	62	3846.4	7448.5	16	9	2004	3:34	16	22.56	31.31	22.55	31.31	5
64	63	3856.1	7449.4	16	9	2004	5:39	13	23.30	31.21	23.32	31.21	6
65	64	3857.8	7443.8	16	9	2004	7:04	12	23.18	31.19	23.15	31.20	4
66	65	3904.9	7440.6	16	9	2004	8:30	14	23.30	31.19	23.29	31.20	4
67	66	3903.0	7436.1	16	9	2004	10:53	18	22.77	31.27	22.70	31.33	5
68	67	3907.8	7422.0	16	9	2004	12:41	25	22.67	31.51	19.79	31.68	4
69	68	3949.8	7157.6	21	9	2004	9:26	128	20.64	34.34	11.39	35.27	6
70	69	3931.7	7207.4	21	9	2004	12:07	246	22.97	35.13	10.52	35.33	7
71	70	3932.2	7210.3	21	9	2004	14:07	149	22.68	35.06	11.76	35.33	3

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
72	71	3933.8	7232.1	21	9	2004	17:04	85	21.12	34.69	8.42	33.45	6
73	72	3934.7	7256.0	21	9	2004	19:32	57	19.82	32.70	7.50	32.88	6
74	73	3926.9	7252.5	21	9	2004	21:07	56	19.19	32.94	7.44	32.94	6
75	74	3907.7	7245.9	21	9	2004	23:37	118	20.50	34.30	11.42	35.15	2
76	75	3907.3	7302.2	22	9	2004	1:49	69	18.70	33.01	7.77	33.02	4
77	76	3907.4	7304.4	22	9	2007	3:15	73	18.82	33.02	7.54	32.94	1
78	77	3856.5	7309.8	22	9	2004	4:58	77	20.17	34.17	9.43	33.76	7
79	78	3851.1	7255.3	22	9	2004	7:16	275	21.60	34.46	10.43	35.31	19
80	79	3838.1	7314.7	22	9	2004	10:10	106	21.33	34.42	11.11	34.98	6
81	80	3834.7	7323.5	22	9	2004	11:43	81	21.36	34.41	7.32	33.00	5
82	81	3829.6	7331.5	22	9	2004	13:13	91	20.87	34.36	7.48	33.04	5
83	82	3823.1	7335.7	22	9	2004	14:43	121	21.06	34.22	10.99	34.88	5
84	83	3819.2	7343.3	22	9	2004	16:19	108	20.91	34.30	9.94	34.25	5
85	84	3813.1	7401.5	22	9	2004	18:22	68	20.08	33.50	7.95	33.11	4
86	85	3827.9	7347.4	22	9	2004	20:45	59	19.25	33.45	7.68	32.82	4
87	86	3842.9	7409.4	22	9	2004	23:38	39	20.56	32.13	9.94	32.75	3
88	87	3850.1	7423.2	23	9	2004	1:31	26	21.12	31.71	20.52	31.89	3
89	88	3900.1	7400.5	23	9	2004	4:01	33	19.99	31.93	18.28	32.83	6
90	89	3908.7	7410.0	23	9	2004	5:49	29	21.09	31.37	20.81	31.37	4
91	90	3910.6	7348.2	23	9	2004	8:01	35	19.85	31.87	18.54	32.73	5
92	91	3921.0	7319.6	23	9	2004	11:04	44	20.09	32.74	8.94	32.61	6
93	92	3921.9	7355.4	23	9	2004	14:19	23	20.41	31.61	20.34	31.61	6
94	93	3919.1	7407.3	23	9	2004	15:49	25	21.19	31.32	21.04	31.33	6
95	94	3915.9	7429.7	23	9	2004	18:01	11	21.53	30.67	21.43	30.70	5
96	95	3920.1	7417.3	23	9	2004	20:07	12	21.46	30.91	21.41	30.90	5
97	96	3925.5	7409.9	23	9	2004	22:13	14	21.29	30.99	21.20	30.99	7
98	97	3930.9	7414.6	23	9	2004	23:49	4	20.93	29.82	20.94	29.82	2
99	98	3937.8	7405.8	24	9	2004	1:21	13	20.99	30.16	21.01	30.18	4
100	99	3940.4	7401.5	24	9	2004	3:07	14	21.03	30.11	21.04	30.13	5
101	100	3946.1	7400.0	24	9	2004	4:34	21	20.91	29.51	21.08	29.70	12
102	102	3954.4	7311.8	24	9	2004	9:22	14	20.19	32.39	20.20	32.39	5
103	102	3952.6	7308.0	24	9	2004	10:21	57	19.75	32.60	8.66	32.73	4
104	103	4001.1	7259.2	24	9	2004	11:36	50	20.06	32.81	8.67	32.74	2
105	104	4000.4	7309.5	24	9	2004	13:01	48	20.09	32.50	9.32	32.61	1
106	105	4003.6	7315.2	24	9	2004	14:11	35	19.87	32.42	10.77	32.55	5
107	106	4007.7	7347.3	24	9	2004	16:53	28	20.63	31.97	20.03	32.11	6

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
108	107	4002.7	7404.1	24	9	2004	18:49	15	21.30	26.10	20.88	30.36	6
109	108	4007.0	7400.6	24	9	2004	20:34	17	21.23	27.86	20.75	30.24	6
110	109	4012.9	7358.6	24	9	2004	23:10	12	21.35	25.83	20.77	30.26	6
111	110	4024.0	7338.0	25	9	2004	1:42	16	21.08	31.09	20.51	31.56	5
112	111	4026.2	7310.2	25	9	2004	4:19	30	20.18	31.69	19.87	31.95	5
113	112	4029.0	7257.2	25	9	2004	5:58	38	19.98	32.63	14.81	32.86	5
114	113	4002.6	7225.1	25	9	2004	9:55	66	19.54	33.16	8.38	32.86	8
115	114	4003.5	7222.4	25	9	2004	11:19	64	19.33	33.00	8.41	32.88	8
116	115	4005.3	7159.9	25	9	2004	13:37	74	17.49	32.87	8.54	33.23	6
117	116	4023.3	7209.3	25	9	2004	16:02	61	19.48	32.69	9.18	32.74	5
118	117	4029.0	7151.5	25	9	2004	18:04	67	19.23	32.92	9.01	32.78	5
119	118	4042.9	7218.4	25	9	2004	21:19	40	19.18	31.72	12.82	32.84	6
120	119	4047.4	7226.7	25	9	2004	22:38	27	20.41	31.62	19.00	31.97	9
121	120	4041.8	7247.2	26	9	2004	0:52	20	20.41	31.40	19.84	32.07	2
122	121	4031.6	7323.0	26	9	2004	4:24	20	20.98	30.32	20.59	31.72	4
123	122	4028.3	7341.0	26	9	2004	6:22	21	20.80	29.53	20.33	31.76	4
124	123	4018.0	7353.0	26	9	2004	8:31	22	20.88	30.01	19.79	31.84	4
125	124	4032.7	7352.3	26	9	2004	10:46	10	20.29	30.49	20.17	31.51	3
126	125	4033.7	7346.3	26	9	2004	12:43	13	20.70	29.57	20.08	31.65	2
127	126	4031.2	7337.0	26	9	2004	14:01	19	20.85	29.91	19.82	31.74	4
128	127	4035.3	7326.8	26	9	2004	15:38	10	21.12	31.22	20.58	31.51	3
129	128	4033.7	7322.3	26	9	2004	17:30	18	21.13	31.06	20.72	31.64	7
130	129	4039.8	7259.9	26	9	2004	19:53	16	20.73	31.74	19.69	31.99	7
131	130	4047.6	7234.0	26	9	2004	22:23	18	20.27	31.97	19.21	32.29	5
132	131	4049.4	7226.1	26	9	2004	23:45	20	19.99	31.76	18.73	32.14	6
133	132	4050.6	7223.8	27	9	2004	1:13	18	20.13	31.84	18.65	32.15	5
134	133	4052.9	7217.9	27	9	2004	2:20	16	20.05	31.66	18.43	32.02	5
135	134	4053.2	7210.2	27	9	2004	3:31	29	20.05	31.70	17.37	32.71	5
136	135	4055.6	7207.7	27	9	2004	5:24	20	19.17	31.71	18.42	32.13	4
137	136	4057.8	7203.9	27	9	2004	6:55	16	19.46	31.66	18.56	31.91	6
138	137	4059.0	7155.7	27	9	2004	8:07	22	19.18	31.48	17.52	32.42	4
139	138	4053.9	7152.6	27	9	2004	9:48	36	19.40	31.47	12.92	32.42	5
140	139	4047.6	7153.7	27	9	2004	11:04	41	18.98	31.30	11.88	32.43	2
141	140	4015.4	7139.5	27	9	2004	14:43	82	17.73	33.09	9.70	33.75	5
142	141	3958.9	7126.4	27	9	2004	17:34	123	21.04	34.75	11.01	35.06	5
143	142	4003.7	7107.8	27	9	2004	19:42	205	21.47	34.69	11.67	35.42	9

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
144	143	4009.5	7050.8	27	9	2004	21:46	133	21.57	34.92	11.35	35.22	6
145	144	4024.3	7056.1	28	9	2004	0:09	86	21.44	34.90	9.43	33.42	9
146	145	4035.5	7048.4	28	9	2004	2:20	67	20.55	34.27	9.26	33.16	2
147	146	4042.6	7033.7	28	9	2004	4:16	56	17.16	32.81	13.97	33.23	7
148	147	4048.6	7043.5	28	9	2004	5:46	57	16.15	31.92	11.18	32.53	4
149	148	4047.5	7104.3	28	9	2004	7:54	56	17.80	31.96	10.29	32.61	5
150	149	4050.2	7102.6	28	9	2004	9:21	57	17.90	32.06	10.09	32.56	8
151	150	4105.5	7141.0	28	9	2004	12:53	30	18.80	31.64	13.21	32.32	7
152	151	4108.6	7128.8	28	9	2004	14:40	29	19.05	31.63	13.48	32.24	1
153	152	4120.7	7056.9	29	9	2004	18:25	27	17.14	31.79	17.09	31.81	5
154	153	4120.3	7108.0	29	9	2004	22:16	27	17.54	31.73	17.18	31.94	3
155	154	4111.1	7127.5	30	9	2004	2:52	27	17.39	31.92	17.33	31.92	3
156	155	4110.1	7059.4	30	9	2004	6:31	33	16.34	31.81	16.23	31.86	6
157	156	4116.9	7033.0	30	9	2004	9:25	22	16.94	31.56	16.68	31.70	3
158	157	4104.9	7039.6	30	9	2004	11:28	44	14.38	32.28	13.90	32.33	4
159	158	4034.2	7005.7	30	9	2004	16:19	57	15.62	32.35	13.22	32.55	4
160	159	4029.7	6955.7	30	9	2004	17:52	69	17.09	32.88	12.69	32.50	5
161	160	4021.9	7001.7	30	9	2004	19:21	80	16.75	32.91	10.71	33.39	4
162	161	4015.1	7011.5	30	9	2004	21:00	93	17.23	32.85	11.68	34.36	6
163	162	4039.9	7018.6	1	10	2004	0:26	51	16.02	32.38	14.33	32.75	5
164	163	4129.8	6946.6	4	10	2004	23:57	17	15.19	31.75	14.05	31.78	6
165	165	4113.4	6938.9	5	10	2004	3:54	24	13.91	31.78	13.92	31.78	4
166	166	4106.1	6941.8	5	10	2004	6:11	32	13.83	31.67	13.68	31.70	3
167	167	4107.6	6935.7	5	10	2004	9:03	26	13.62	31.71	13.61	31.71	6
168	168	4054.0	6940.2	5	10	2004	11:07	39	13.92	31.65	13.86	31.66	9
169	169	4044.6	6918.0	5	10	2004	14:19	51	12.64	31.90	12.62	31.90	5
170	170	4040.1	6917.7	5	10	2004	15:52	45	14.07	32.23	14.08	32.24	5
171	171	4028.7	6938.0	5	10	2004	18:25	68	14.29	32.20	11.64	33.45	4
172	172	4027.3	6906.8	5	10	2004	21:30	80	13.64	32.17	10.88	33.12	5
173	173	3958.7	6914.2	6	10	2004	0:53	329	22.84	35.48	8.80	35.18	13
174	174	4005.5	6908.1	6	10	2004	2:50	131	22.86	35.59	12.34	35.35	6
175	175	4011.9	6855.1	6	10	2004	4:52	125	22.27	35.25	12.85	35.15	5
176	176	4008.0	6843.9	6	10	2004	6:37	164	21.56	34.91	11.82	35.44	4
177	177	4015.9	6846.7	6	10	2004	8:41	104	16.29	32.71	12.95	35.17	6
178	178	4014.4	6818.6	6	10	2004	11:41	235	22.50	35.12	11.41	35.44	35
179	178	4014.7	6817.9	6	10	2004	12:04	265	22.51	35.11	10.45	35.34	6

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
180	179	4030.3	6830.6	6	10	2004	15:16	85	13.81	32.04	9.82	33.30	5
181	180	4035.4	6845.3	6	10	2004	17:12	62	14.04	32.15	12.47	32.41	6
182	181	4041.0	6856.6	6	10	2004	18:52	67	14.70	32.17	11.87	32.45	5
183	182	4040.1	6825.5	6	10	2004	21:47	62	14.20	32.13	13.68	32.17	34
184	182	4040.1	6825.5	6	10	2004	21:52	63	14.22	32.13	10.45	32.90	7
185	183	4054.6	6820.3	7	10	2004	0:16	48	15.00	32.16	14.70	32.16	6
186	184	4059.8	6815.4	7	10	2004	1:42	49	15.53	32.16	15.22	32.16	6
187	185	4114.1	6810.6	7	10	2004	3:58	41	15.93	32.19	15.95	32.19	4
188	186	4112.7	6752.8	7	10	2004	6:00	35	16.04	32.18	15.70	32.17	7
189	187	4046.3	6800.0	7	10	2004	9:18	69	13.69	32.07	10.50	32.53	4
190	188	4037.3	6740.1	7	10	2004	11:34	78	13.02	32.14	9.33	33.53	4
191	189	4030.3	6745.3	7	10	2004	13:19	122	14.97	31.83	11.26	34.67	6
192	190	4033.7	6714.0	7	10	2004	16:40	136	14.76	31.59	11.31	34.67	4
193	191	4047.7	6713.7	7	10	2004	18:55	94	15.37	32.01	7.57	33.00	5
194	192	4052.7	6705.3	7	10	2004	20:25	87	15.88	31.85	7.40	33.30	6
195	193	4101.3	6702.7	7	10	2004	21:57	66	13.87	31.95	8.80	32.63	6
196	194	4052.0	6642.2	8	10	2004	0:22	110	14.95	31.92	6.77	33.20	6
197	195	4055.1	6629.6	8	10	2004	2:12	470	13.83	31.94	5.65	35.00	11
198	196	4105.6	6621.4	8	10	2004	5:16	364	15.35	32.01	6.59	34.99	7
199	197	4112.6	6635.9	8	10	2004	7:52	86	14.58	31.86	6.92	33.17	5
200	198	4117.6	6652.0	8	10	2004	10:00	67	12.90	32.20	8.66	32.64	6
201	199	4133.0	6702.4	8	10	2004	12:28	58	13.63	32.30	13.05	32.31	7
202	200	4137.1	6636.6	8	10	2004	14:58	73	13.68	32.35	11.09	32.49	6
203	201	4149.7	6623.5	8	10	2004	17:21	81	13.24	32.24	8.76	32.57	5
204	202	4134.0	6620.0	8	10	2004	19:40	87	15.25	32.27	7.51	32.85	6
205	203	4135.1	6557.3	8	10	2004	21:58	152	15.57	31.85	8.04	34.81	6
206	204	4137.8	6556.4	8	10	2004	23:30	110	14.44	31.90	6.22	33.64	6
207	205	4144.6	6555.4	9	10	2004	1:01	105	14.83	31.85	5.33	33.00	6
208	206	4145.2	6546.6	9	10	2004	2:50	142	15.59	31.78	6.38	33.84	6
209	207	4156.4	6543.5	9	10	2004	4:52	231	15.76	32.01	6.94	34.97	4
210	207	4156.3	6543.4	9	10	2004	5:10	231	15.80	32.01	8.62	34.95	31
211	208	4157.4	6555.5	9	10	2004	7:09	110	14.60	31.90	6.03	33.68	6
212	209	4202.3	6614.3	9	10	2004	9:18	86	14.24	32.23	6.12	32.76	5
213	210	4209.1	6620.9	9	10	2004	12:08	179	14.62	32.12	7.42	34.22	6
214	211	4208.3	6630.8	9	10	2004	13:46	89	14.69	32.07	6.67	32.74	7
215	212	4222.9	6629.8	9	10	2004	16:10	299	14.38	32.14	8.17	34.96	5

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
216	212	4222.9	6629.2	9	10	2004	16:36	298	14.47	32.16	8.52	34.90	99
217	213	4230.9	6629.9	9	10	2004	18:34	257	13.91	32.19	8.22	34.87	1
218	214	4226.2	6643.3	9	10	2004	20:40	332	13.79	32.21	8.14	34.96	4
219	215	4218.6	6653.6	9	10	2004	23:01	296	14.52	32.11	8.29	34.94	5
220	216	4207.5	6656.1	10	10	2004	1:36	62	14.88	32.28	12.07	32.42	6
221	217	4209.0	6715.1	10	10	2004	3:46	119	14.59	32.18	5.18	33.27	3
222	218	4202.9	6717.7	10	10	2004	5:25	45	14.39	32.28	10.36	32.38	5
223	219	4154.5	6704.3	10	10	2004	7:22	56	14.04	32.30	13.57	32.31	6
224	220	4150.6	6716.7	10	10	2004	9:37	52	14.59	32.27	14.60	32.27	6
226	221	4142.7	6712.6	10	10	2004	11:31	52	14.26	32.28	14.27	32.28	6
227	222	4124.7	6724.4	10	10	2004	14:21	38	15.14	32.22	15.08	32.22	5
228	223	4132.3	6752.8	10	10	2004	17:25	35	16.03	32.22	16.06	32.22	6
229	225	4129.5	6810.0	10	10	2004	21:04	44	15.57	32.17	15.25	32.21	4
230	226	4136.7	6813.3	10	10	2004	22:30	36	15.32	32.21	15.20	32.22	4
231	227	4140.8	6757.4	11	10	2004	0:34	32	15.86	32.22	15.85	32.22	6
232	228	4143.1	6737.4	11	10	2004	2:40	41	15.40	32.24	15.40	32.24	5
233	229	4200.4	6746.0	11	10	2004	5:16	90	14.44	32.09	5.34	32.78	6
234	230	4210.6	6735.2	11	10	2004	7:28	196	14.86	31.87	8.09	34.76	5
235	231	4209.1	6752.6	11	10	2004	10:07	217	14.14	32.07	7.30	34.36	15
236	232	4202.5	6801.6	11	10	2004	12:28	199	15.13	31.91	7.41	34.43	5
237	233	4145.9	7022.3	12	10	2004	11:23	14	15.16	31.33	15.16	31.33	5
238	234	4152.9	7011.2	12	10	2004	13:19	20	14.06	31.48	14.05	31.47	10
239	235	4154.5	7019.9	12	10	2004	16:10	34	14.76	31.44	14.76	31.45	5
240	236	4206.3	7012.7	12	10	2004	20:13	61	13.27	31.63	9.09	31.98	5
241	237	4157.0	6947.9	13	10	2004	1:55	104	13.81	31.95	6.38	32.72	6
242	238	4135.4	6944.6	13	10	2004	5:07	31	13.61	31.69	13.61	31.69	6
243	239	4130.2	6928.9	13	10	2004	7:40	44	13.71	31.67	11.65	31.96	3
244	240	4125.5	6935.6	13	10	2004	10:41	24	14.15	31.70	14.15	31.69	5
245	241	4123.0	6934.8	13	10	2004	13:19	26	14.18	31.76	14.18	31.75	6
246	242	4103.5	6922.6	13	10	2004	16:58	42	13.47	31.85	13.49	31.84	6
247	243	4106.5	6908.2	13	10	2004	19:13	88	14.62	31.95	7.49	32.39	6
248	244	4100.5	6853.1	13	10	2004	21:06	69	14.17	31.89	10.90	32.24	6
249	245	4105.1	6845.6	13	10	2004	22:45	64	12.85	32.12	11.44	32.23	5
250	246	4057.8	6844.1	14	10	2004	0:31	65	14.13	32.18	13.91	32.18	6
251	247	4106.4	6835.5	14	10	2004	2:22	52	14.27	32.15	14.27	32.15	5
252	248	4114.7	6835.1	14	10	2004	4:25	66	12.86	32.17	12.80	32.18	6

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
253	249	4124.9	6851.5	14	10	2004	6:48	141	14.30	31.93	4.72	32.96	4
254	250	4135.7	6848.0	14	10	2004	9:21	148	14.13	31.96	4.47	33.09	5
255	251	4142.9	6825.1	14	10	2004	11:51	153	13.02	32.11	4.74	33.20	6
256	251	4142.5	6824.7	14	10	2004	12:13	134	13.01	32.11	12.87	32.18	106
257	252	4152.0	6820.5	14	10	2004	13:55	206	13.04	32.13	6.02	33.79	5
258	253	4156.3	6843.4	14	10	2004	16:57	150	12.94	32.18	4.47	33.26	5
259	254	4154.0	6904.9	14	10	2004	19:10	186	14.57	31.98	4.72	33.40	6
260	255	4153.1	6915.0	14	10	2004	21:43	199	14.87	31.95	4.59	33.36	6
261	256	4203.0	6925.1	14	10	2004	23:58	206	14.26	31.94	4.64	33.43	7
262	257	4145.7	6921.4	15	10	2004	2:35	176	13.85	31.89	4.63	33.17	6
263	258	4242.2	6825.9	19	10	2004	7:10	191	12.46	32.20	6.43	34.01	3
264	259	4220.0	6801.8	19	10	2004	10:43	167	11.83	32.20	6.74	34.13	7
265	260	4235.1	6756.8	19	10	2004	13:11	208	12.64	32.18	8.04	34.70	11
266	261	4239.9	6754.4	19	10	2004	15:13	189	12.78	32.17	7.82	34.57	4
267	262	4305.8	6801.9	19	10	2004	18:37	163	12.46	32.22	5.75	33.63	5
268	263	4312.3	6722.6	19	10	2004	22:27	182	11.23	32.30	6.84	34.11	5
269	264	4304.3	6713.1	20	10	2004	0:22	222	11.38	32.21	7.86	34.60	3
270	265	4251.6	6712.1	20	10	2004	2:37	241	10.88	32.22	7.87	34.61	43
271	265	4249.7	6711.4	20	10	2004	3:19	214	10.87	32.21	7.97	34.67	4
272	266	4242.8	6711.6	20	10	2004	5:16	219	12.08	31.71	8.30	34.91	5
273	267	4302.5	6654.5	20	10	2004	8:28	169	11.65	32.18	7.69	34.20	6
274	268	4320.9	6701.8	20	10	2004	11:22	185	10.73	31.88	7.55	34.32	22
275	269	4332.9	6651.5	20	10	2004	13:51	162	10.56	31.93	7.48	33.99	7
276	270	4337.3	6639.8	20	10	2004	15:55	126	11.36	31.53	7.34	33.48	4
277	271	4332.3	6639.1	20	10	2004	17:23	102	11.77	31.34	7.57	33.68	6
278	272	4319.5	6622.2	20	10	2004	20:02	61	11.89	31.18	10.87	31.59	5
279	273	4321.4	6615.8	20	10	2004	23:16	64	12.09	31.10	10.51	31.72	1
280	274	4331.4	6616.9	21	10	2004	2:01	81	10.86	31.57	9.15	32.20	3
281	275	4342.4	6628.0	21	10	2004	4:16	88	11.49	31.34	8.24	32.62	6
282	276	4348.7	6700.3	21	10	2004	8:16	166	10.73	31.62	6.39	33.60	7
283	277	4352.4	6655.5	21	10	2004	10:25	158	10.70	31.67	6.43	33.62	4
284	278	4412.5	6655.4	21	10	2004	14:34	174	10.26	31.89	6.41	33.63	9
285	279	4419.6	6713.9	21	10	2004	17:49	176	9.97	31.93	6.65	33.77	6
286	280	4412.5	6717.1	21	10	2004	20:04	200	9.88	32.00	6.55	33.91	4
287	281	4413.9	6754.5	22	10	2004	0:38	75	9.69	32.36	9.41	32.40	6
288	282	4402.0	6740.7	22	10	2004	3:20	194	10.44	31.85	6.81	33.99	3

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
289	283	4330.3	6736.1	22	10	2004	7:46	224	10.85	31.99	7.63	34.33	25
290	283	4330.4	6734.6	22	10	2004	8:16	223	10.86	32.00	7.76	34.43	4
291	284	4337.7	6758.1	22	10	2004	11:01	218	11.10	32.24	6.88	34.11	2
292	285	4354.6	6825.9	22	10	2004	15:16	108	9.84	32.11	8.23	32.68	5
293	286	4355.7	6849.5	22	10	2004	18:43	79	9.60	32.32	9.36	32.35	9
294	287	4324.9	6833.5	22	10	2004	23:40	146	10.70	32.34	6.05	33.51	2
295	288	4311.2	6836.6	23	10	2004	2:49	175	11.41	32.29	5.74	33.63	6
296	289	4310.1	6847.6	23	10	2004	5:58	170	9.90	32.37	5.77	33.57	10
297	290	4324.2	6915.1	23	10	2004	9:55	163	10.28	32.43	4.55	33.11	2
298	291	4338.1	6914.4	23	10	2004	13:13	110	9.38	99.99	7.80	32.88	4
299	292	4345.8	6906.1	23	10	2004	17:55	84	9.82	32.31	9.16	32.54	5
300	293	4335.4	6939.6	23	10	2004	22:13	89	9.83	32.34	7.94	32.66	1
301	294	4321.6	6940.7	24	10	2004	1:08	166	10.37	32.40	4.79	33.13	7
302	295	4305.6	6929.2	24	10	2004	6:09	157	10.22	32.44	5.44	33.00	5
303	296	4316.2	7003.4	24	10	2004	10:28	145	10.22	32.42	4.77	32.73	7
304	297	4312.9	7015.5	24	10	2004	13:16	105	10.77	31.92	7.43	32.55	7
305	298	4259.9	7002.1	24	10	2004	18:34	59	10.02	32.35	9.15	32.51	8
306	299	4258.2	7013.5	24	10	2004	20:40	157	10.55	32.11	4.57	32.65	6
307	300	4252.6	7004.6	24	10	2004	23:27	118	11.05	32.28	6.29	32.79	2
308	301	4248.5	7000.8	25	10	2004	2:16	159	11.34	32.25	5.20	32.97	8
309	302	4251.7	6952.8	25	10	2004	5:34	249	11.46	32.28	5.11	33.61	49
310	302	4251.5	6951.9	25	10	2004	6:01	249	11.46	32.28	5.81	33.85	3
311	303	4245.8	7017.9	25	10	2004	9:49	56	10.66	32.30	8.91	32.34	6
312	304	4245.1	7035.9	25	10	2004	12:46	76	11.59	31.67	8.24	32.32	3
313	305	4228.5	7039.1	25	10	2004	15:19	73	11.45	31.65	7.94	32.29	6
314	306	4221.1	7040.3	25	10	2004	18:00	60	11.97	31.64	8.99	32.12	4
315	307	4201.9	7027.4	25	10	2004	22:06	43	12.75	31.61	12.68	31.59	5
316	308	4156.7	7025.8	26	10	2004	1:16	37	12.83	31.48	12.80	31.57	5
317	309	4224.1	7022.0	26	10	2004	4:37	37	11.82	31.71	10.79	31.97	8
318	310	4234.3	7011.1	26	10	2004	9:10	80	10.40	32.13	7.75	32.47	7
319	311	4233.1	7004.9	26	10	2004	12:38	122	10.68	32.29	7.09	32.67	4
320	312	4219.8	6950.1	26	10	2004	15:04	237	11.83	32.05	5.11	33.56	6
321	313	4211.7	6938.7	26	10	2004	17:31	233	11.54	32.09	5.08	33.61	5
322	314	4211.8	6932.3	26	10	2004	19:04	230	12.51	32.11	4.85	33.51	3
323	315	4227.1	6912.2	26	10	2004	22:22	223	12.02	32.21	5.56	33.64	26
324	315	4227.5	6912.0	26	10	2004	22:45	227	12.01	32.21	5.91	33.84	1

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
325	316	4238.5	6908.6	27	10	2004	1:30	181	11.58	32.27	5.16	33.50	6
326	317	4242.8	6855.5	27	10	2004	3:28	158	10.37	32.42	5.77	33.26	19
327	318	4213.9	6842.5	27	10	2004	8:06	204	11.93	32.17	4.63	33.39	3
328	319	4157.8	6957.3	27	10	2004	15:11	29	11.78	31.72	11.80	31.72	6