

Oceanography Branch CTD Data Report
CTD_REPORT_2009008DE

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DATE: Revised: December 2, 2009

Oceanography Branch CTD Data Report

CTD_REPORT_2009008DE

NOAA Fisheries Service
Northeast Fisheries Science Center
Woods Hole, MA 02543

DE 09-08
Benthic Habitat Study
Data Coverage: August 5 - 13, 2009
Georges Bank

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2009 Benthic Habitat study aboard the NOAA FSV *Delaware II*. All data was obtained with a Seabird Electronics SBE Model 19+ profiling CTD (s/n 4501). Sea water samples were taken for the purpose of correcting salinity values for the instrument. No salinity correction was necessary.

Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/del0908.dat>

This report may be viewed on the Oceanography Branch website at:

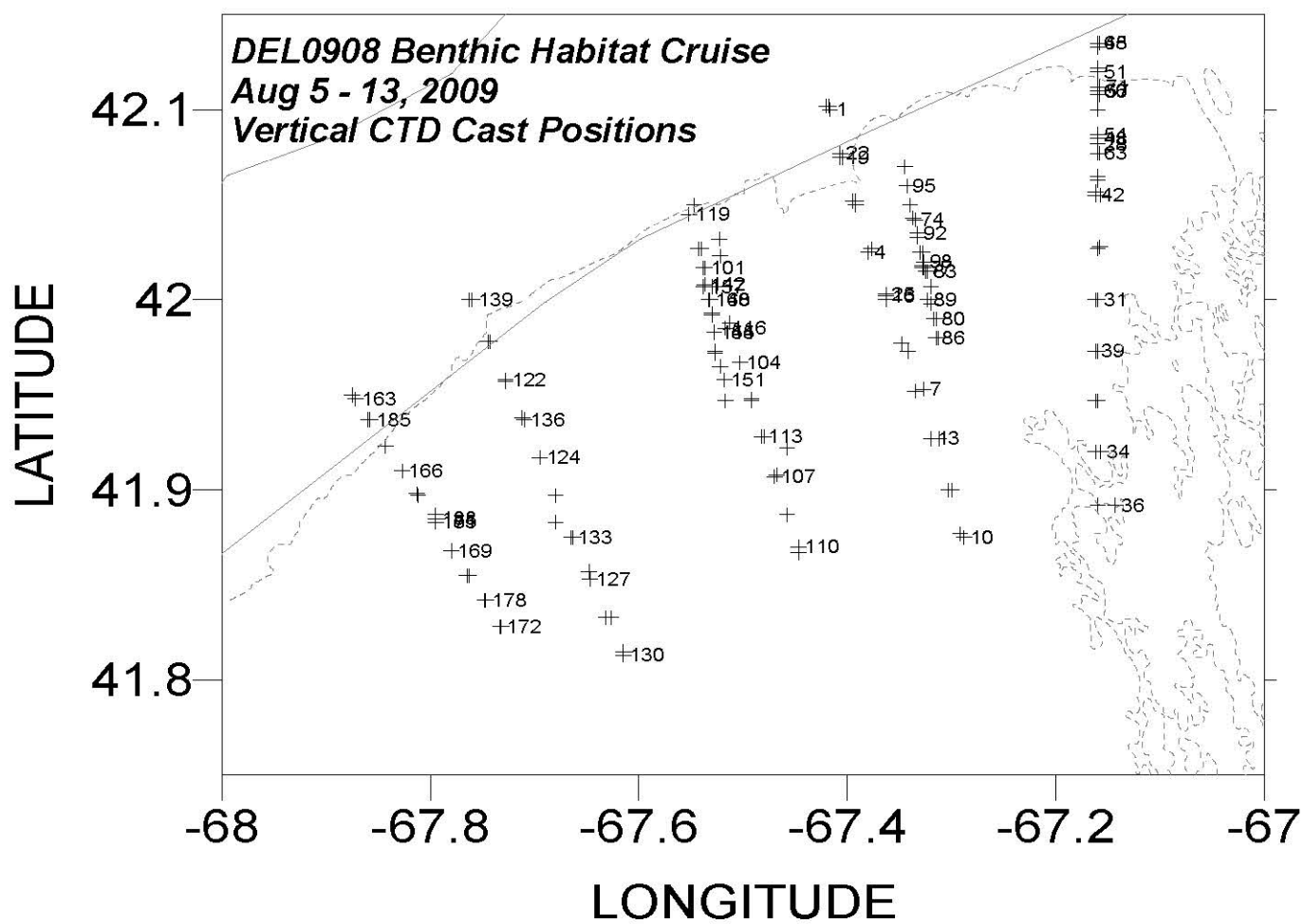
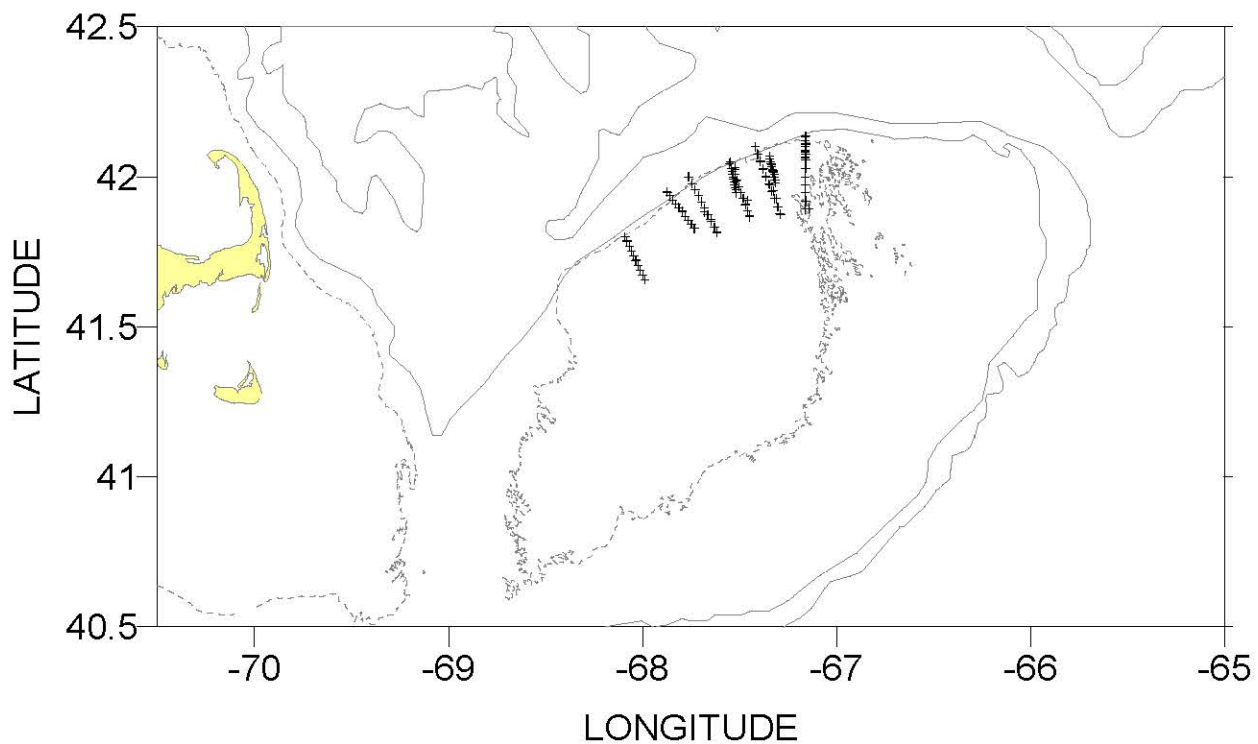
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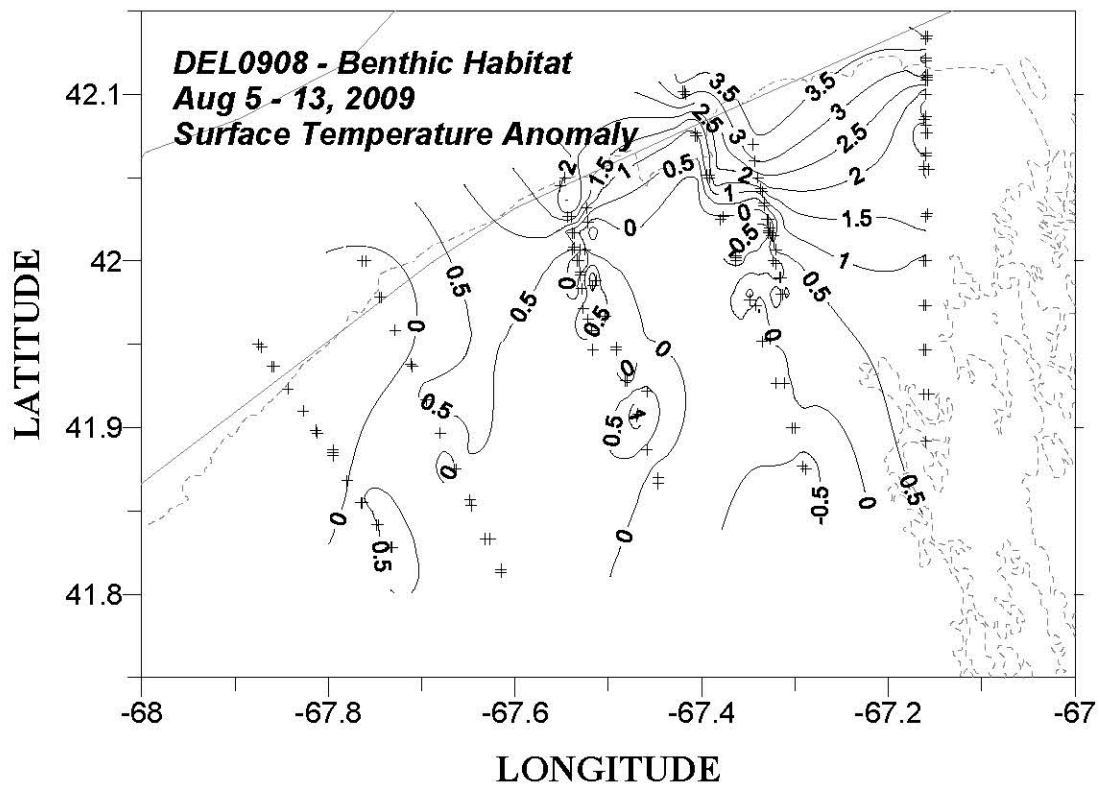
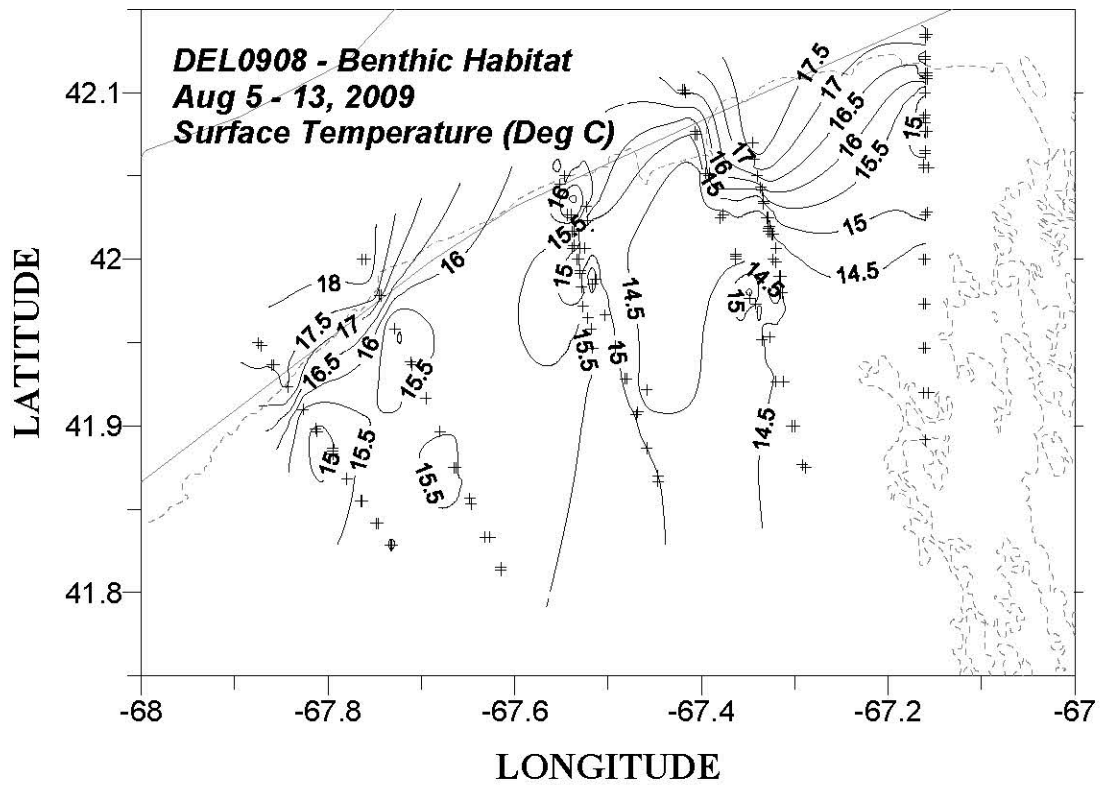
choose: **2009 Cruises**

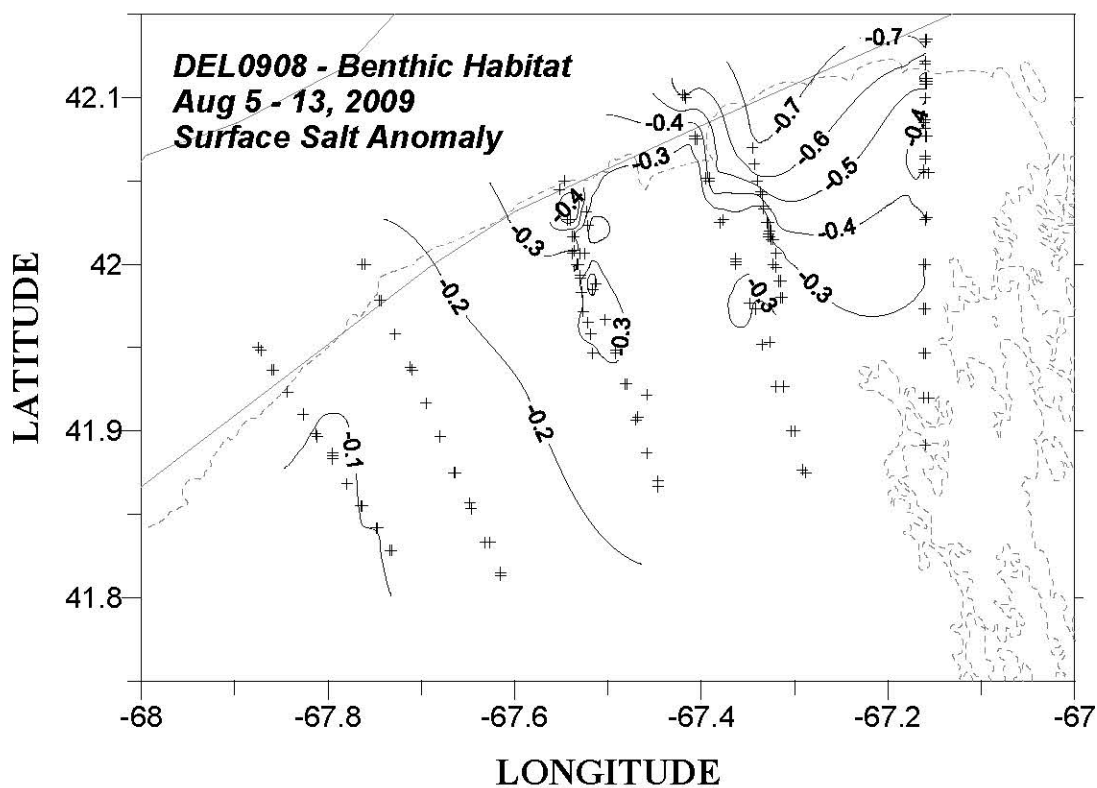
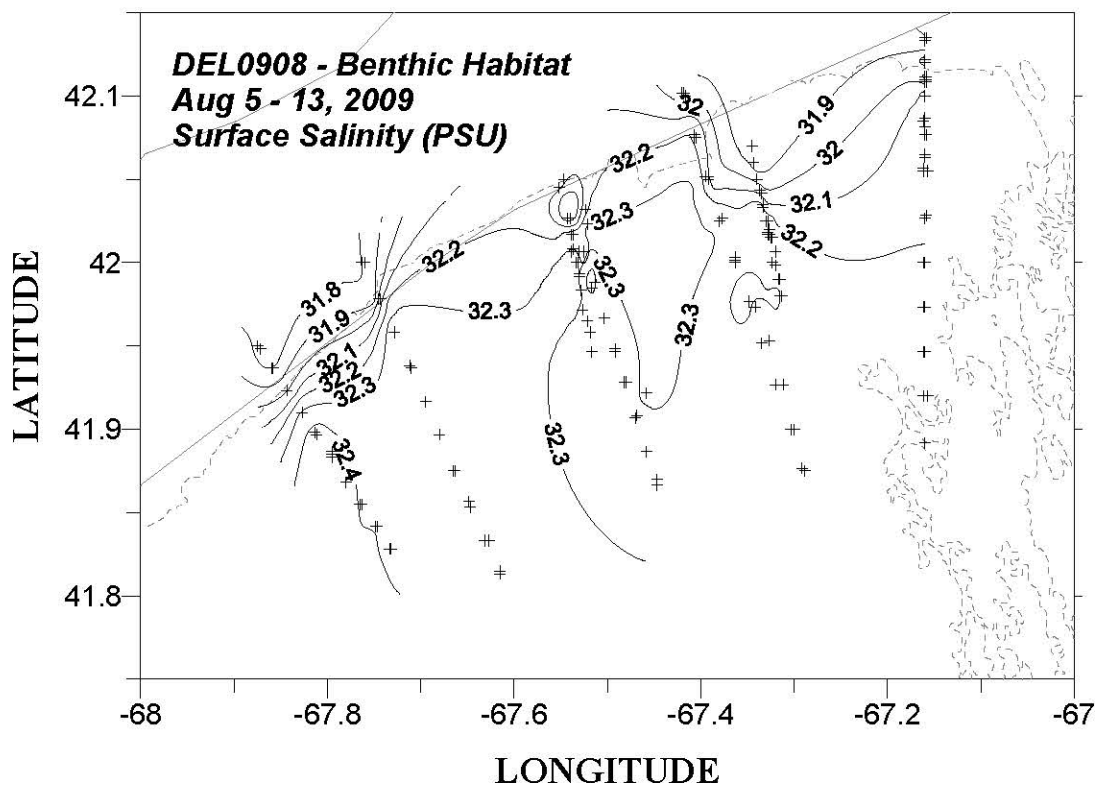
AUG_BENTHIC_DEL0908

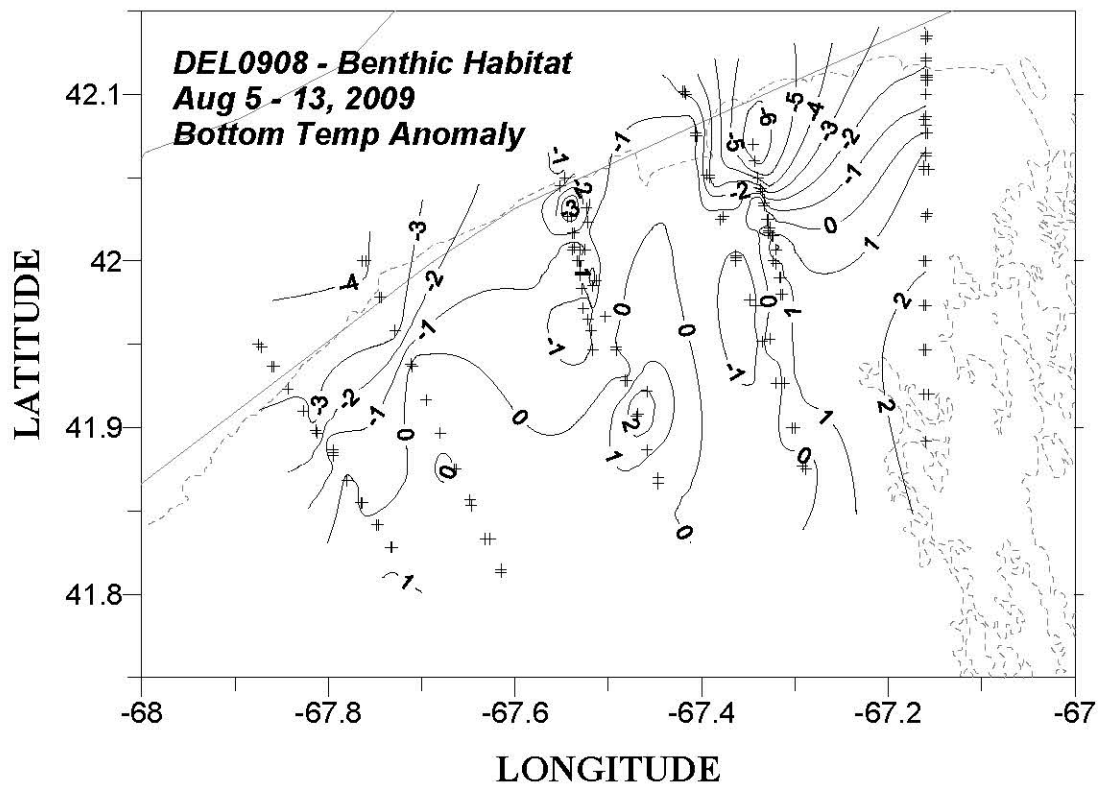
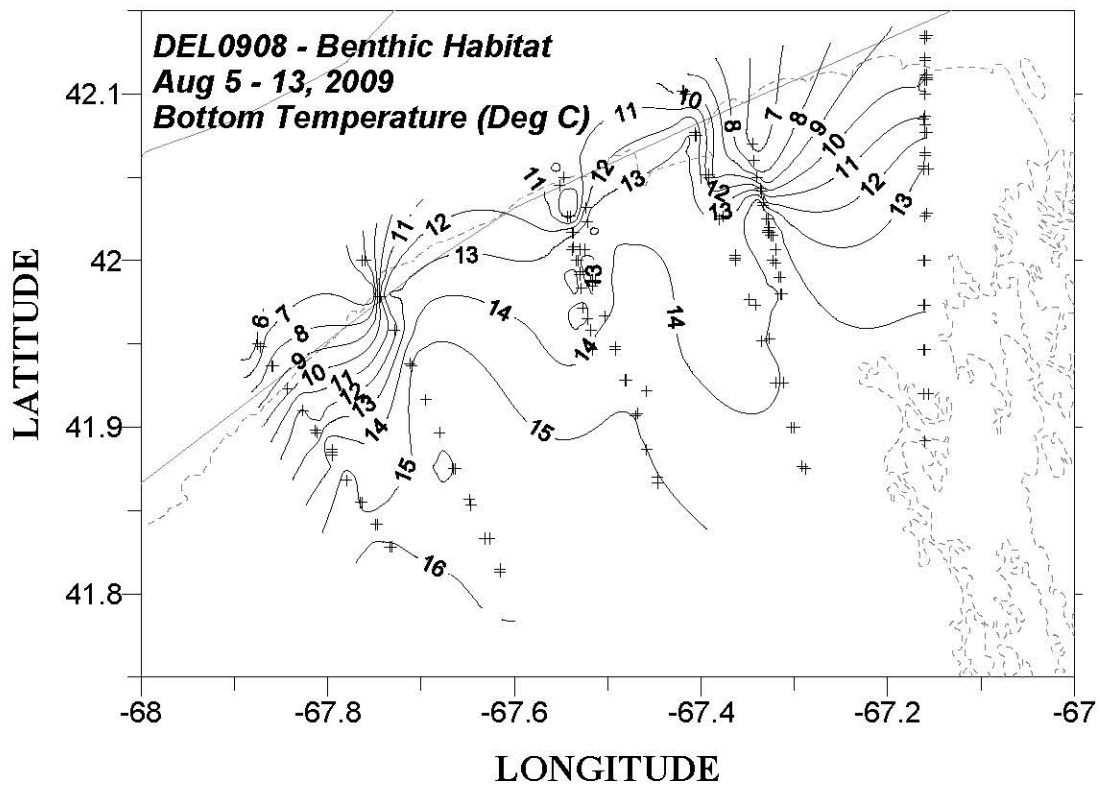
CTD_REPORT_2009008DE.pdf

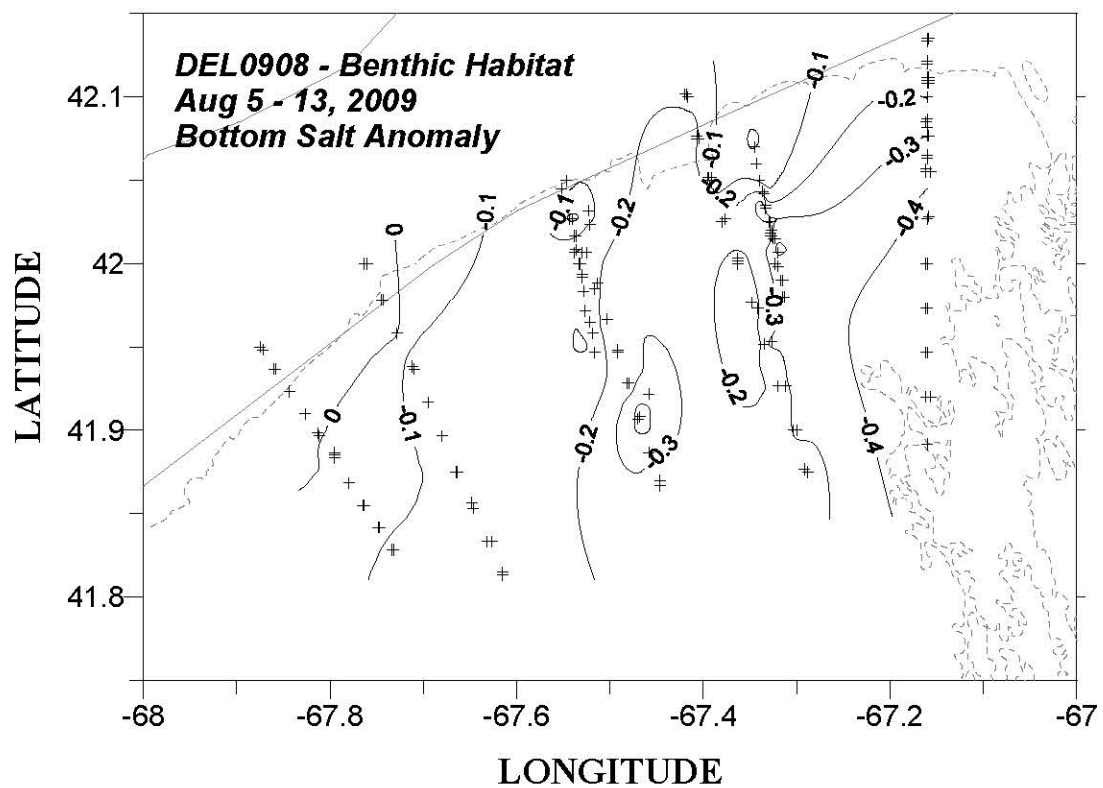
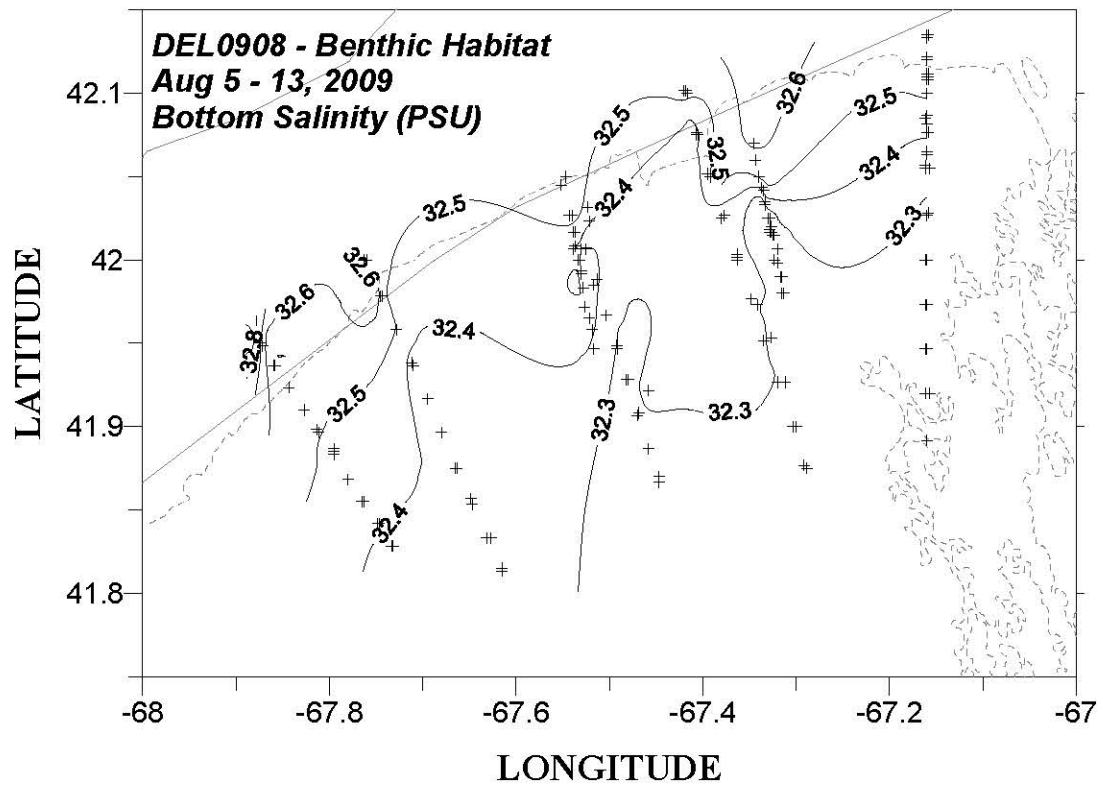
Revised: December 2, 2009











Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2009 Benthic Habitat Study DEL0908

CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
DEL0908	221	178	15.47	0.69	0.07	1.20	1	Georges Bank Temperature						90
DEL0908	221	178	32.23	-0.29	0.04	0.18	1	Georges Bank Salinity						90

"#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.

DEL0908 Benthic Habitat Study
August 5 - 13, 2009

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
1	1	4206.0	6725.0	5	8	2009	3:15	82	16.67	31.93	9.50	32.53	5
2	2	4204.5	6724.3	5	8	2009	3:39	53	15.12	32.19	13.17	32.35	5
3	3	4203.1	6723.7	5	8	2009	3:57	51	14.29	32.28	12.48	32.39	4
4	4	4201.5	6722.8	5	8	2009	4:15	50	14.38	32.27	12.95	32.35	4
5	5	4200.0	6721.8	5	8	2009	4:33	53	14.31	32.27	13.37	32.33	5
6	6	4158.4	6720.5	5	8	2009	4:52	57	14.32	32.27	13.86	32.30	7
7	7	4157.2	6719.6	5	8	2009	5:05	53	14.30	32.27	14.05	32.28	7
8	8	4155.6	6718.7	5	8	2009	5:22	50	14.26	32.27	14.17	32.27	3
9	9	4154.0	6718.0	5	8	2009	5:45	50	14.26	32.26	14.25	32.27	4
10	10	4152.5	6717.3	5	8	2009	6:00	48	14.31	32.26	14.29	32.25	4
11	11	4152.6	6717.5	5	8	2009	8:04	47	14.15	32.27	14.16	32.27	4
12	12	4154.0	6718.2	5	8	2009	8:22	50	14.28	32.27	14.07	32.29	5
13	13	4155.6	6719.2	5	8	2009	8:45	48	14.51	32.25	13.86	32.30	3
14	14	4157.1	6720.1	5	8	2009	9:04	54	14.81	32.23	13.50	32.32	4
15	15	4158.6	6720.9	5	8	2009	9:22	55	15.82	32.08	13.20	32.34	2
16	16	4200.1	6721.8	5	8	2009	9:41	52	16.60	31.92	13.31	32.34	4
17	17	4201.6	6722.6	5	8	2009	9:58	49	17.00	31.87	12.26	32.42	3
18	18	4203.0	6723.5	5	8	2009	10:15	51	16.33	32.01	9.45	32.57	5
19	19	4204.5	6724.4	5	8	2009	10:31	52	16.99	31.83	7.07	32.61	4
20	20	4206.1	6725.2	5	8	2009	10:48	82	17.43	31.75	6.02	32.73	4
21	21	4206.1	6725.1	5	8	2009	14:04	82	16.15	32.06	9.98	32.53	4
22	22	4204.6	6724.4	5	8	2009	14:31	53	15.33	32.18	11.68	32.45	5
23	23	4203.1	6723.5	5	8	2009	14:52	52	14.93	32.23	13.63	32.33	6
24	24	4201.6	6722.6	5	8	2009	15:15	50	14.20	32.29	13.70	32.32	6
25	25	4200.2	6721.8	5	8	2009	15:36	52	14.29	32.28	13.92	32.30	5
26	26	4208.1	6709.5	6	8	2009	2:42	79	17.54	31.77	9.73	32.52	6
27	27	4206.5	6709.5	6	8	2009	3:07	57	17.31	31.83	10.20	32.50	4
28	28	4204.9	6709.6	6	8	2009	3:27	52	14.93	32.13	11.12	32.43	4
29	29	4203.3	6709.4	6	8	2009	3:47	53	15.36	32.13	12.96	32.33	4
30	30	4201.7	6709.5	6	8	2009	4:05	55	15.24	32.12	13.49	32.29	2

DEL0908 Benthic Habitat Study
August 5 - 13, 2009

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
31	31	4200.0	6709.6	6	8	2009	4:24	54	14.17	32.24	13.59	32.28	3
32	32	4158.4	6709.6	6	8	2009	4:40	53	14.17	32.24	13.99	32.25	4
33	33	4156.8	6709.7	6	8	2009	4:56	56	14.20	32.24	14.21	32.24	4
34	34	4155.2	6709.4	6	8	2009	5:15	52	14.23	32.25	14.23	32.24	1
35	35	4153.5	6709.6	6	8	2009	5:37	59	14.15	32.24	14.14	32.24	3
36	36	4153.5	6709.6	6	8	2009	8:33	57	14.12	32.25	14.13	32.25	3
37	37	4155.2	6709.7	6	8	2009	8:52	53	14.03	32.25	14.04	32.25	5
38	38	4156.8	6709.6	6	8	2009	9:10	55	15.53	32.14	13.81	32.27	3
39	39	4158.4	6709.7	6	8	2009	9:34	54	15.83	32.11	13.43	32.31	3
40	40	4200.0	6709.7	6	8	2009	9:52	53	14.94	32.20	12.41	32.37	4
41	41	4201.6	6709.6	6	8	2009	10:10	54	16.13	32.04	11.21	32.45	3
42	42	4203.3	6709.7	6	8	2009	10:28	52	16.37	31.95	9.33	32.53	5
43	43	4204.9	6709.6	6	8	2009	10:43	51	17.26	31.79	7.02	32.67	3
44	44	4206.5	6709.6	6	8	2009	11:00	56	17.97	31.71	5.96	32.83	3
45	45	4208.1	6709.6	6	8	2009	11:16	81	18.51	31.79	5.80	33.03	4
46	46	4208.0	6709.6	6	8	2009	14:56	78	17.25	31.83	9.16	32.55	4
47	47	4206.5	6709.6	6	8	2009	15:18	57	15.61	32.10	8.62	32.58	1
48	48	4205.1	6709.7	6	8	2009	15:40	52	14.69	32.14	11.08	32.45	5
49	49	4203.4	6709.7	6	8	2009	16:01	53	14.66	32.15	12.89	32.34	5
50	50	4208.0	6709.6	7	8	2009	3:20	80	16.27	31.98	9.18	32.56	3
51	51	4207.2	6709.6	7	8	2009	3:37	63	15.91	32.09	9.39	32.54	6
52	52	4206.6	6709.6	7	8	2009	3:49	56	15.88	32.08	9.71	32.53	2
53	53	4206.0	6709.6	7	8	2009	4:03	54	14.63	32.20	9.82	32.53	2
54	54	4205.2	6709.6	7	8	2009	4:16	52	14.87	32.13	10.07	32.50	4
55	55	4204.6	6709.5	7	8	2009	4:28	52	14.05	32.23	10.63	32.47	3
56	56	4203.9	6709.6	7	8	2009	4:41	52	14.13	32.23	12.54	32.37	4
57	57	4206.6	6709.5	7	8	2009	5:09	57	16.12	32.02	10.97	32.45	3
58	58	4206.6	6709.5	7	8	2009	6:04	55	16.19	31.97	11.07	32.44	2
59	59	4206.6	6709.5	7	8	2009	7:13	57	16.93	31.81	8.26	32.62	1
60	60	4206.6	6709.6	7	8	2009	8:11	55	18.67	31.74	6.47	32.75	3

DEL0908 Benthic Habitat Study
August 5 - 13, 2009

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
61	61	4206.6	6709.6	7	8	2009	9:10	55	18.56	31.65	6.12	32.79	3
62	62	4203.8	6709.6	7	8	2009	9:37	51	18.61	31.77	8.86	32.56	4
63	63	4204.6	6709.6	7	8	2009	9:46	51	18.63	31.74	7.91	32.62	2
64	64	4205.2	6709.6	7	8	2009	10:00	51	17.99	31.70	7.06	32.67	3
65	65	4206.0	6709.6	7	8	2009	10:11	53	18.51	31.67	6.38	32.74	4
66	66	4206.6	6709.6	7	8	2009	10:22	54	18.41	31.70	6.10	32.78	2
67	67	4207.3	6709.6	7	8	2009	10:36	64	18.48	31.72	5.73	32.90	4
68	68	4208.1	6709.6	7	8	2009	10:46	82	18.21	31.76	5.89	33.04	4
69	69	4206.6	6709.6	7	8	2009	11:58	55	18.55	31.71	6.93	32.69	4
70	70	4206.7	6709.6	7	8	2009	13:01	56	18.61	31.74	8.14	32.58	8
71	71	4206.7	6709.5	7	8	2009	13:58	56	16.10	31.91	8.81	32.56	3
72	72	4206.7	6709.5	7	8	2009	14:53	56	16.62	31.87	9.12	32.55	4
73	73	4206.7	6709.6	7	8	2009	16:02	56	14.77	32.19	9.14	32.54	1
74	74	4202.5	6720.1	8	8	2009	3:40	54	14.91	32.19	14.40	32.25	4
75	75	4202.0	6720.0	8	8	2009	3:54	55	14.70	32.22	14.38	32.26	4
76	76	4201.5	6719.7	8	8	2009	4:04	52	14.27	32.26	14.29	32.26	4
77	77	4201.0	6719.6	8	8	2009	4:16	49	14.25	32.26	14.26	32.26	2
78	78	4200.4	6719.2	8	8	2009	4:28	50	14.40	32.25	14.24	32.26	4
79	79	4159.9	6719.2	8	8	2009	4:39	55	14.23	32.26	14.24	32.26	6
80	80	4159.4	6718.9	8	8	2009	4:48	52	14.26	32.26	14.25	32.26	4
81	81	4158.8	6718.8	8	8	2009	4:58	54	14.30	32.26	14.28	32.26	4
82	82	4200.9	6719.5	8	8	2009	6:07	48	14.36	32.27	14.35	32.27	4
83	83	4200.9	6719.4	8	8	2009	7:05	47	14.89	32.22	14.38	32.27	2
84	84	4201.0	6719.6	8	8	2009	8:13	48	15.74	32.11	12.54	32.35	1
85	85	4201.0	6719.6	8	8	2009	9:01	48	16.27	32.04	12.56	32.35	4
86	86	4158.8	6718.9	8	8	2009	9:49	53	15.43	32.14	13.91	32.28	5
87	87	4159.4	6719.0	8	8	2009	10:01	52	15.50	32.13	13.39	32.31	4
88	88	4159.9	6719.2	8	8	2009	10:11	53	15.74	32.10	13.13	32.32	5
89	89	4200.0	6719.4	8	8	2009	10:22	49	16.05	32.05	12.77	32.34	3
90	90	4201.0	6719.6	8	8	2009	10:34	48	16.25	32.00	12.28	32.36	3

DEL0908 Benthic Habitat Study
August 5 - 13, 2009

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
91	91	4201.5	6719.8	8	8	2009	10:45	52	15.18	32.13	11.49	32.40	5
92	92	4202.1	6720.0	8	8	2009	10:55	54	16.06	32.02	9.92	32.48	4
93	93	4202.6	6720.2	8	8	2009	11:04	52	16.54	31.93	8.70	32.53	3
94	94	4203.0	6720.4	8	8	2009	11:15	52	16.71	31.93	8.00	32.57	4
95	95	4203.6	6720.6	8	8	2009	11:25	51	17.46	31.85	7.30	32.58	5
96	96	4204.2	6720.7	8	8	2009	11:41	51	17.62	31.83	6.92	32.60	3
97	97	4201.0	6719.7	8	8	2009	13:00	48	15.10	32.18	14.15	32.27	2
98	98	4201.2	6719.6	8	8	2009	14:03	49	15.58	32.10	14.36	32.25	5
99	99	4201.1	6719.7	8	8	2009	15:01	50	15.09	32.16	14.32	32.25	4
100	100	4203.0	6732.8	9	8	2009	4:03	68	15.32	32.19	11.13	32.53	6
101	101	4201.0	6732.2	9	8	2009	4:28	49	14.94	32.24	12.25	32.48	3
102	102	4200.4	6731.5	9	8	2009	4:40	46	15.03	32.26	13.44	32.37	4
103	103	4159.3	6730.8	9	8	2009	4:58	44	14.92	32.27	13.68	32.34	2
104	104	4158.0	6730.2	9	8	2009	5:13	46	15.03	32.27	13.90	32.32	3
105	105	4156.8	6729.5	9	8	2009	5:28	47	14.94	32.26	14.41	32.29	3
106	106	4155.7	6728.8	9	8	2009	5:41	52	14.90	32.26	14.74	32.27	5
107	107	4154.4	6728.2	9	8	2009	5:55	64	14.96	32.26	14.97	32.26	2
108	108	4153.2	6727.5	9	8	2009	6:04	60	14.99	32.25	15.00	32.26	5
109	109	4152.0	6726.8	9	8	2009	6:24	54	15.04	32.26	15.05	32.26	4
110	110	4152.2	6726.8	9	8	2009	10:03	52	14.40	32.31	14.42	32.31	5
111	111	4155.3	6727.5	9	8	2009	10:19	59	14.20	32.32	14.09	32.32	5
112	112	4154.5	6728.1	9	8	2009	10:37	63	15.31	32.20	13.78	32.35	5
113	113	4155.7	6728.9	9	8	2009	10:55	50	15.39	32.19	13.06	32.43	3
114	114	4156.9	6729.5	9	8	2009	11:10	46	16.01	32.09	12.78	32.46	2
115	115	4158.0	6730.2	9	8	2009	11:28	45	16.45	32.01	12.27	32.53	2
116	116	4159.1	6731.0	9	8	2009	11:43	43	16.39	32.06	10.93	32.55	6
117	117	4200.4	6731.8	9	8	2009	12:07	45	17.47	31.80	9.36	32.56	3
118	118	4201.6	6732.4	9	8	2009	12:25	51	17.97	31.75	7.92	32.58	5
119	119	4202.7	6733.1	9	8	2009	12:43	64	18.48	31.84	7.23	32.60	5
120	120	4200.0	6745.8	10	8	2009	4:40	88	18.31	31.80	7.86	32.56	5

DEL0908 Benthic Habitat Study
August 5 - 13, 2009

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
121	121	4158.7	6744.6	10	8	2009	4:52	60	16.89	32.13	13.18	32.46	6
122	122	4157.5	6743.7	10	8	2009	5:09	50	14.85	32.37	11.33	32.51	5
123	123	4156.3	6742.7	10	8	2009	5:24	43	15.21	32.35	15.08	32.36	6
124	124	4155.0	6741.7	10	8	2009	5:40	39	15.75	32.37	15.65	32.37	4
125	125	4153.8	6740.8	10	8	2009	5:55	39	15.70	32.37	15.67	32.37	3
126	126	4152.5	6739.8	10	8	2009	6:09	39	15.73	32.35	15.73	32.35	4
127	127	4151.2	6738.8	10	8	2009	6:24	39	15.73	32.34	15.73	32.34	3
128	128	4150.0	6737.6	10	8	2009	6:37	43	15.68	32.35	15.68	32.35	5
129	129	4148.9	6736.9	10	8	2009	6:49	45	15.66	32.34	15.65	32.34	3
130	130	4148.8	6736.9	10	8	2009	10:03	45	15.66	32.38	15.67	32.38	5
131	131	4150.0	6737.9	10	8	2009	10:19	37	15.62	32.38	15.62	32.38	3
132	132	4151.4	6738.9	10	8	2009	10:37	38	15.50	32.37	15.11	32.38	3
133	133	4152.5	6739.9	10	8	2009	10:52	38	14.87	32.36	14.57	32.39	6
134	134	4153.8	6740.8	10	8	2009	11:07	37	15.92	32.25	14.09	32.43	4
135	135	4155.0	6741.7	10	8	2009	11:22	37	16.24	32.21	12.23	32.48	2
136	136	4156.2	6742.6	10	8	2009	11:38	42	16.17	32.22	9.32	32.55	4
138	138	4158.7	6744.7	10	8	2009	12:23	60	17.82	31.82	6.16	32.69	3
139	139	4200.0	6745.6	10	8	2009	12:43	86	18.50	31.70	5.78	32.74	4
140	140	4201.9	6731.4	11	8	2009	4:58	51	15.86	32.25	12.99	32.44	4
141	141	4201.4	6731.3	11	8	2009	5:22	49	14.38	32.36	14.23	32.37	4
142	142	4200.5	6732.2	11	8	2009	5:35	47	15.51	32.28	14.10	32.39	4
143	143	4200.0	6732.0	11	8	2009	5:45	53	14.49	32.35	14.29	32.38	12
144	144	4159.6	6731.8	11	8	2009	5:55	45	14.56	32.34	14.35	32.37	5
145	145	4159.0	6731.7	11	8	2009	6:05	44	14.52	32.35	14.37	32.37	5
147	147	4200.0	6732.0	11	8	2009	8:00	46	15.54	32.30	12.90	32.44	4
148	148	4200.0	6732.0	11	8	2009	9:01	46	15.14	32.28	12.66	32.46	4
149	149	4200.0	6732.0	11	8	2009	10:01	46	15.59	32.22	11.32	32.51	2
150	150	4156.8	6731.0	11	8	2009	11:04	50	15.65	32.22	13.95	32.40	3
151	151	4157.5	6731.1	11	8	2009	11:16	46	15.67	32.22	13.70	32.42	4
152	152	4157.9	6731.3	11	8	2009	11:26	43	15.54	32.25	13.38	32.43	6

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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
153	153	4158.3	6731.6	11	8	2009	11:40	43	15.35	32.29	11.84	32.48	5
154	154	4159.0	6731.7	11	8	2009	11:53	43	15.97	32.19	10.37	32.54	4
155	155	4159.5	6731.8	11	8	2009	12:13	44	15.84	32.18	10.10	32.55	4
156	156	4200.0	6731.9	11	8	2009	12:25	44	15.89	32.18	9.55	32.57	4
157	157	4200.4	6732.3	11	8	2009	12:38	46	16.26	32.09	9.07	32.58	3
158	158	4201.0	6732.3	11	8	2009	12:55	48	17.25	31.98	8.53	32.58	4
159	159	4201.6	6732.6	11	8	2009	13:06	50	16.47	32.05	7.45	32.62	4
160	160	4200.0	6732.0	11	8	2009	13:28	45	17.44	31.97	10.07	32.55	3
161	161	4200.0	6732.0	11	8	2009	14:28	45	16.34	32.10	11.48	32.51	4
162	162	4200.0	6732.0	11	8	2009	15:28	45	15.69	32.24	13.18	32.43	4
163	163	4156.9	6752.3	12	8	2009	4:58	92	17.84	31.72	7.21	32.54	5
164	164	4156.2	6751.6	12	8	2009	5:15	76	17.49	31.76	8.12	32.51	4
165	165	4155.4	6750.6	12	8	2009	5:30	61	17.57	32.03	9.90	32.50	4
166	166	4154.6	6749.6	12	8	2009	5:46	50	15.39	32.31	12.41	32.52	4
167	167	4153.9	6748.8	12	8	2009	5:58	45	14.92	32.42	11.88	32.52	4
168	168	4153.2	6747.7	12	8	2009	6:13	43	14.95	32.44	14.82	32.44	4
169	169	4152.1	6746.8	12	8	2009	6:28	42	15.33	32.45	15.28	32.45	3
170	170	4151.3	6745.9	12	8	2009	6:40	38	15.55	32.43	15.54	32.43	3
171	171	4150.5	6744.9	12	8	2009	6:52	39	15.85	32.40	15.83	32.40	3
172	172	4149.7	6744.0	12	8	2009	7:07	39	16.04	32.36	16.03	32.36	4
173	173	4153.1	6747.7	12	8	2009	7:43	43	15.02	32.46	13.81	32.49	5
174	174	4153.0	6747.7	12	8	2009	8:40	41	14.79	32.46	13.58	32.49	4
175	175	4153.0	6747.7	12	8	2009	9:31	41	16.27	32.26	13.10	32.49	4
176	176	4153.0	6747.7	12	8	2009	10:19	39	16.29	32.24	12.73	32.49	3
177	177	4149.7	6743.9	12	8	2009	11:03	38	14.90	32.46	14.92	32.46	2
178	178	4150.5	6744.8	12	8	2009	11:16	38	15.55	32.37	14.33	32.48	3
179	179	4151.3	6745.8	12	8	2009	11:31	37	15.95	32.28	13.84	32.49	2
180	180	4152.1	6746.8	12	8	2009	11:49	41	15.57	32.29	11.27	32.50	4
181	181	4153.0	6747.7	12	8	2009	12:06	42	16.01	32.25	8.70	32.50	4
182	182	4153.8	6748.7	12	8	2009	12:21	40	16.08	32.26	7.15	32.55	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
183	183	4154.6	6749.6	12	8	2009	12:36	52	17.23	32.00	6.17	32.65	5
184	184	4155.4	6750.6	12	8	2009	12:51	61	16.81	32.06	5.65	32.74	5
185	185	4156.2	6751.5	12	8	2009	13:04	75	17.48	31.82	5.32	32.83	5
186	186	4157.0	6752.5	12	8	2009	13:21	94	17.78	31.80	5.09	32.95	5
187	187	4153.0	6747.7	12	8	2009	14:03	42	16.13	32.28	8.95	32.50	5
188	188	4153.1	6747.7	12	8	2009	14:58	42	14.69	32.39	9.63	32.49	3
189	189	4143.3	6802.2	13	8	2009	4:07	35	14.71	32.47	14.43	32.49	4
190	190	4143.3	6802.2	13	8	2009	5:01	35	15.18	32.46	15.09	32.46	2
191	191	4148.0	6805.5	13	8	2009	6:00	60	14.98	32.42	12.08	32.54	3
192	192	4147.2	6804.8	13	8	2009	6:15	47	15.01	32.46	12.86	32.53	5
193	193	4146.1	6804.1	13	8	2009	6:28	40	15.08	32.46	14.02	32.50	3
194	194	4145.2	6803.4	13	8	2009	6:41	41	15.30	32.46	15.26	32.46	4
195	195	4144.2	6802.7	13	8	2009	6:54	38	15.43	32.46	15.42	32.46	4
196	196	4143.3	6802.1	13	8	2009	7:07	37	15.60	32.46	15.61	32.45	3
197	197	4142.2	6801.4	13	8	2009	7:20	35	15.99	32.41	15.80	32.43	3
198	198	4141.4	6800.7	13	8	2009	7:33	35	16.49	32.35	16.27	32.38	4
199	199	4140.4	6759.9	13	8	2009	7:46	34	16.55	32.34	16.44	32.36	3
200	200	4139.5	6759.3	13	8	2009	7:58	33	16.30	32.38	16.30	32.38	3
201	201	4143.4	6802.0	13	8	2009	8:31	36	15.49	32.46	15.33	32.47	4
202	202	4143.3	6802.1	13	8	2009	9:30	37	15.64	32.45	15.43	32.46	2
203	203	4143.3	6802.1	13	8	2009	10:31	37	15.21	32.48	15.12	32.48	4
204	204	4143.3	6802.1	13	8	2009	11:22	37	14.91	32.49	14.91	32.49	4
205	205	4139.4	6759.2	13	8	2009	11:52	32	15.65	32.44	15.66	32.44	4
206	206	4140.4	6800.0	13	8	2009	12:11	32	15.48	32.46	15.48	32.46	3
207	207	4141.4	6800.7	13	8	2009	12:26	34	15.33	32.47	15.28	32.48	3
208	208	4142.3	6801.4	13	8	2009	12:40	34	14.83	32.49	14.78	32.49	3
209	209	4143.3	6802.1	13	8	2009	12:56	36	14.94	32.48	14.40	32.50	4
210	210	4144.2	6802.8	13	8	2009	13:10	36	15.48	32.46	13.82	32.52	2
211	211	4145.2	6803.4	13	8	2009	13:22	40	15.40	32.45	12.96	32.53	3
212	212	4146.1	6804.1	13	8	2009	13:36	38	15.46	32.44	12.13	32.54	4

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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
213	213	4147.1	6804.8	13	8	2009	13:49	46	15.47	32.39	11.05	32.54	2
214	214	4148.0	6805.5	13	8	2009	14:03	59	16.11	32.25	8.44	32.56	5
215	215	4148.0	6805.6	13	8	2009	14:31	60	16.14	32.26	8.63	32.55	5
216	216	4148.0	6805.6	13	8	2009	15:03	59	16.15	32.25	9.33	32.53	5
217	217	4148.0	6805.5	13	8	2009	15:30	59	16.22	32.24	9.52	32.53	4