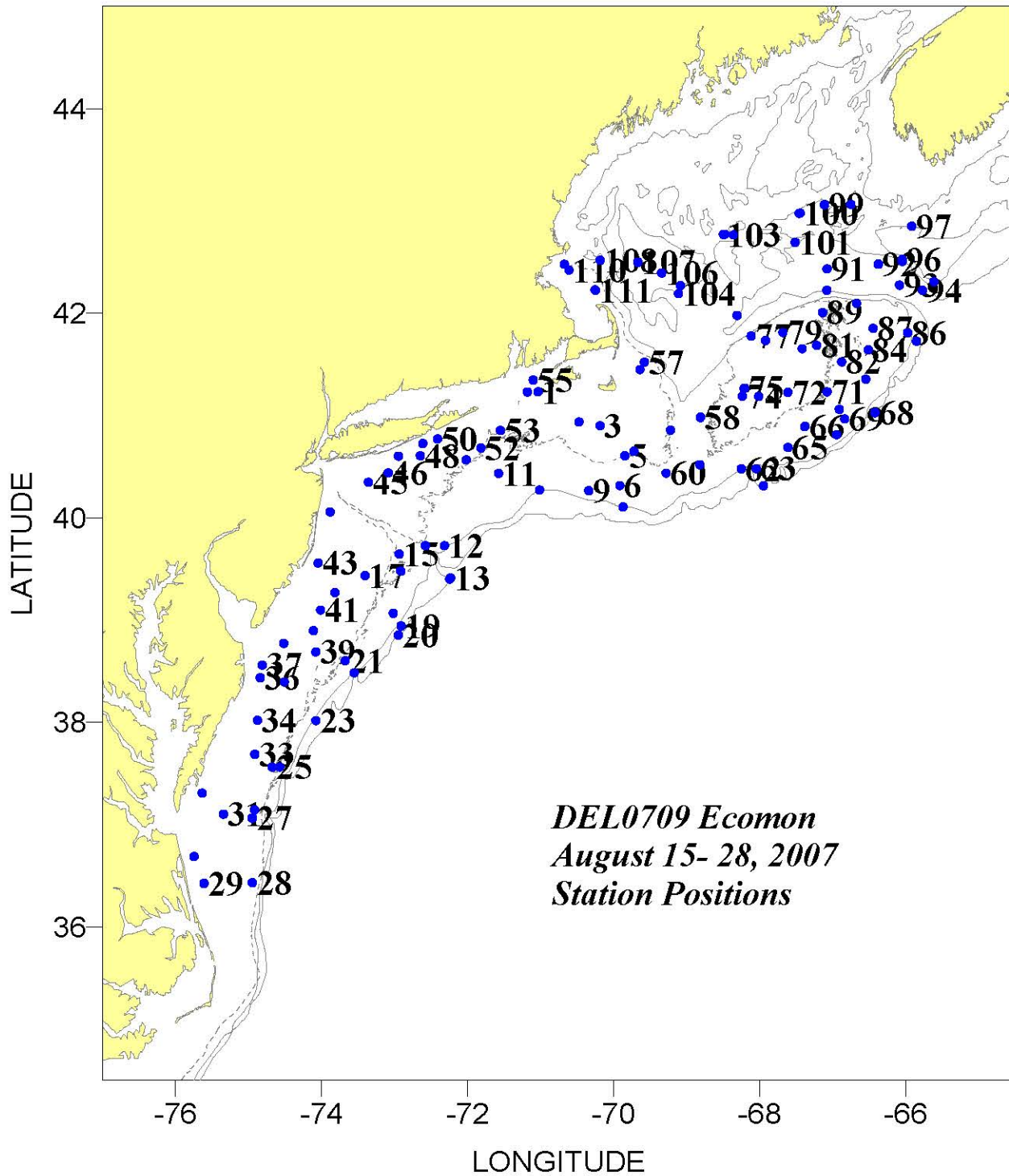


*Oceanography Branch CTD Data Report  
2007 Summer ECOMON Survey DEL0709*

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

DATE: 9/27/07



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the 2007 Summer ECOMON Survey DEL0709

CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
<b>Gulf of Maine West</b>														
DEL0709	239	15	18.37	0.75	0.27	2.90	1	12	7.21	-0.25	0.27	4.13	1	22
DEL0709	239	15	32.03	0.00	0.18	0.86	1	12	33.31	0.05	0.16	0.71	1	22
<b>Gulf of Maine East</b>														
DEL0709	239	15	15.86	1.12	0.26	3.13	1	9	7.52	-0.68	0.33	4.74	1	22
DEL0709	239	15	32.18	-0.32	0.18	0.87	1	9	34.69	-0.13	0.15	0.82	1	22
<b>Georges Bank</b>														
DEL0709	236	35	16.68	0.37	0.19	1.31	0	23	11.07	-1.01	0.26	2.03	0	22
DEL0709	236	35	32.31	-0.41	0.11	0.42	0	23	32.78	-0.22	0.16	0.38	0	22
<b>MAB North</b>														
DEL0709	230	24	20.56	0.48	0.28	1.38	0	20	9.96	-0.75	0.33	1.53	0	22
DEL0709	230	24	32.47	0.12	0.18	0.48	0	20	33.01	-0.24	0.19	0.34	0	22
<b>MAB South</b>														
DEL0709	230	39	24.27	0.45	0.21	0.94	1	33	11.85	-0.20	0.24	1.52	1	22
DEL0709	230	39	32.06	0.06	0.16	0.57	1	33	32.89	-0.14	0.14	0.38	1	22

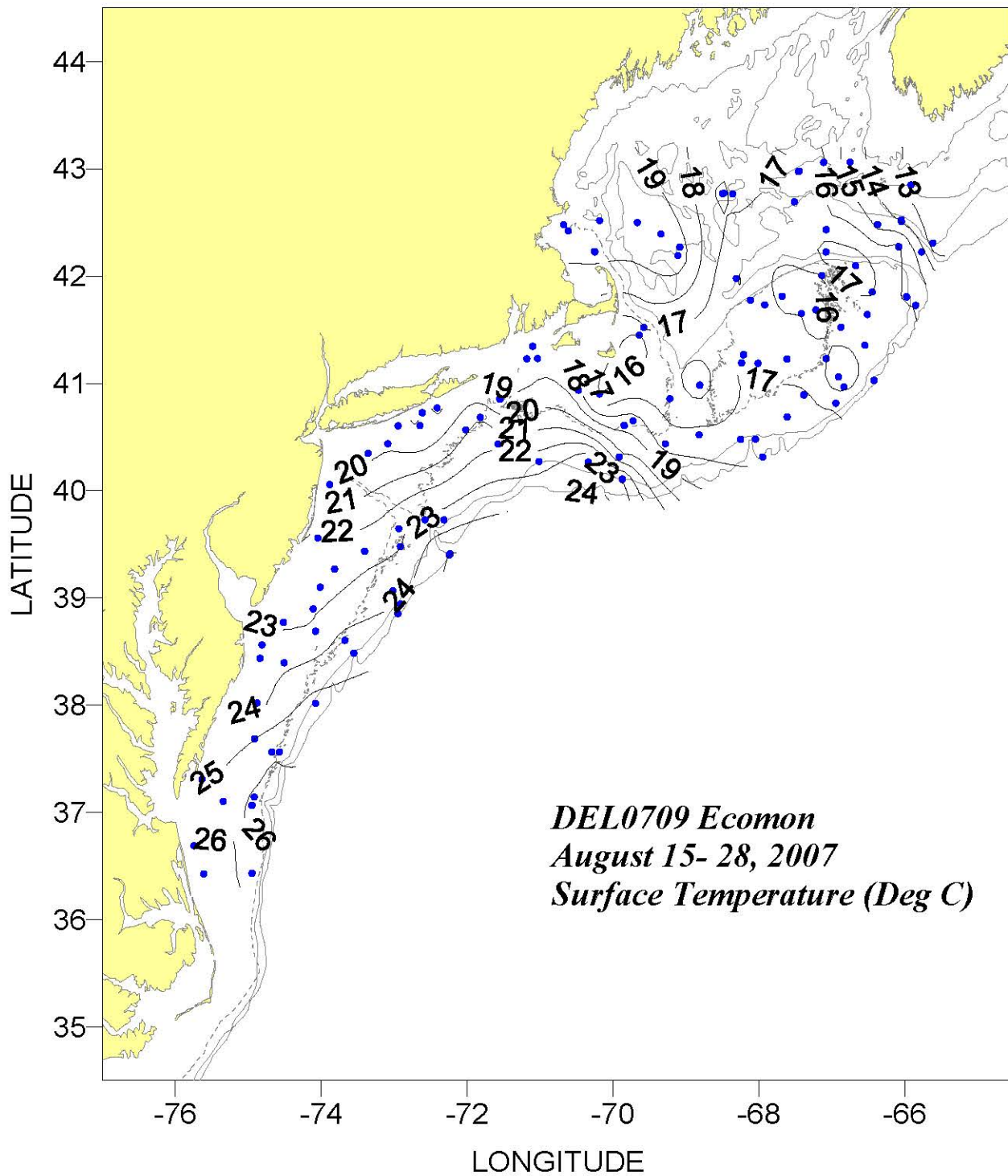
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

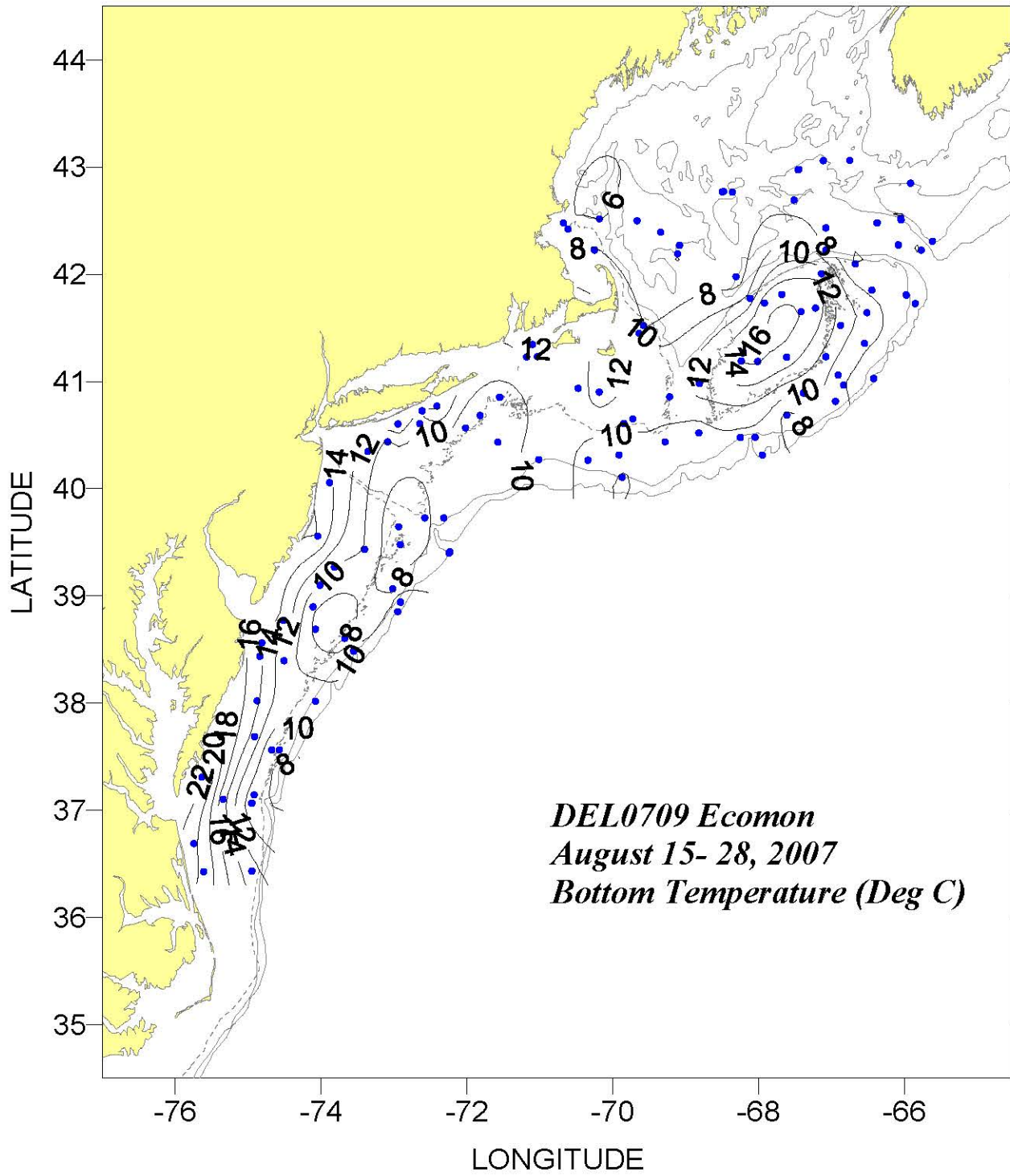
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

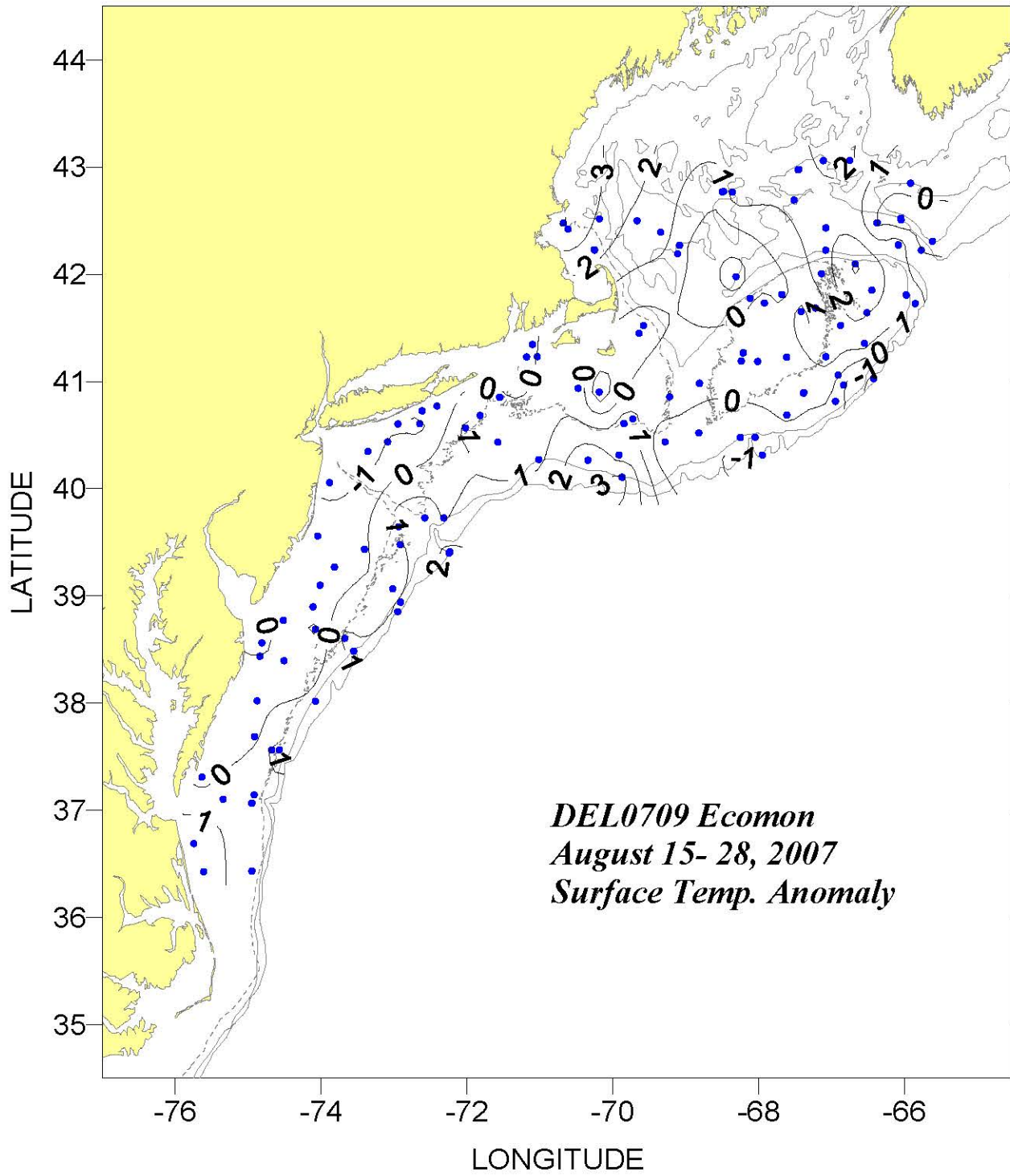
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

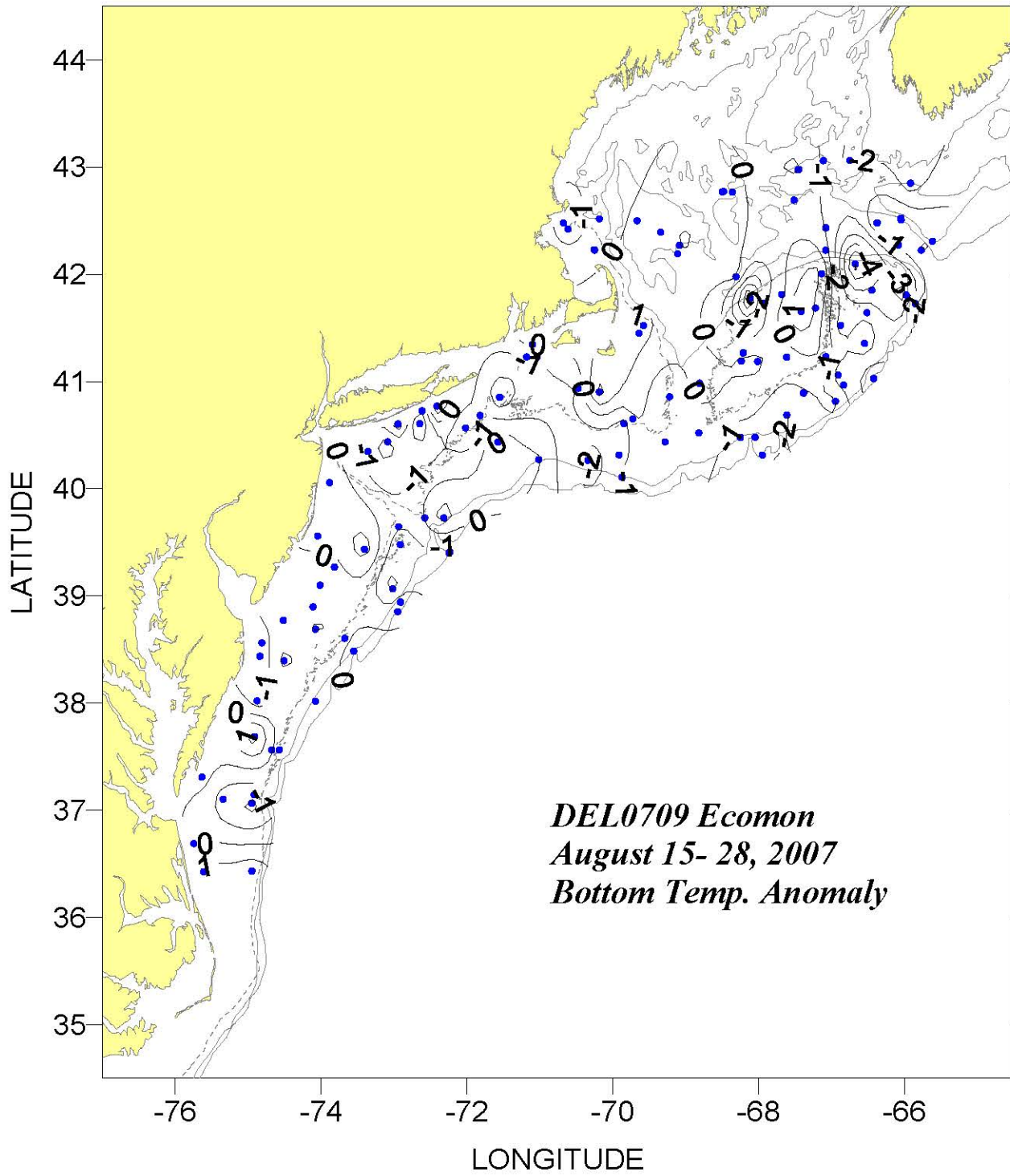
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

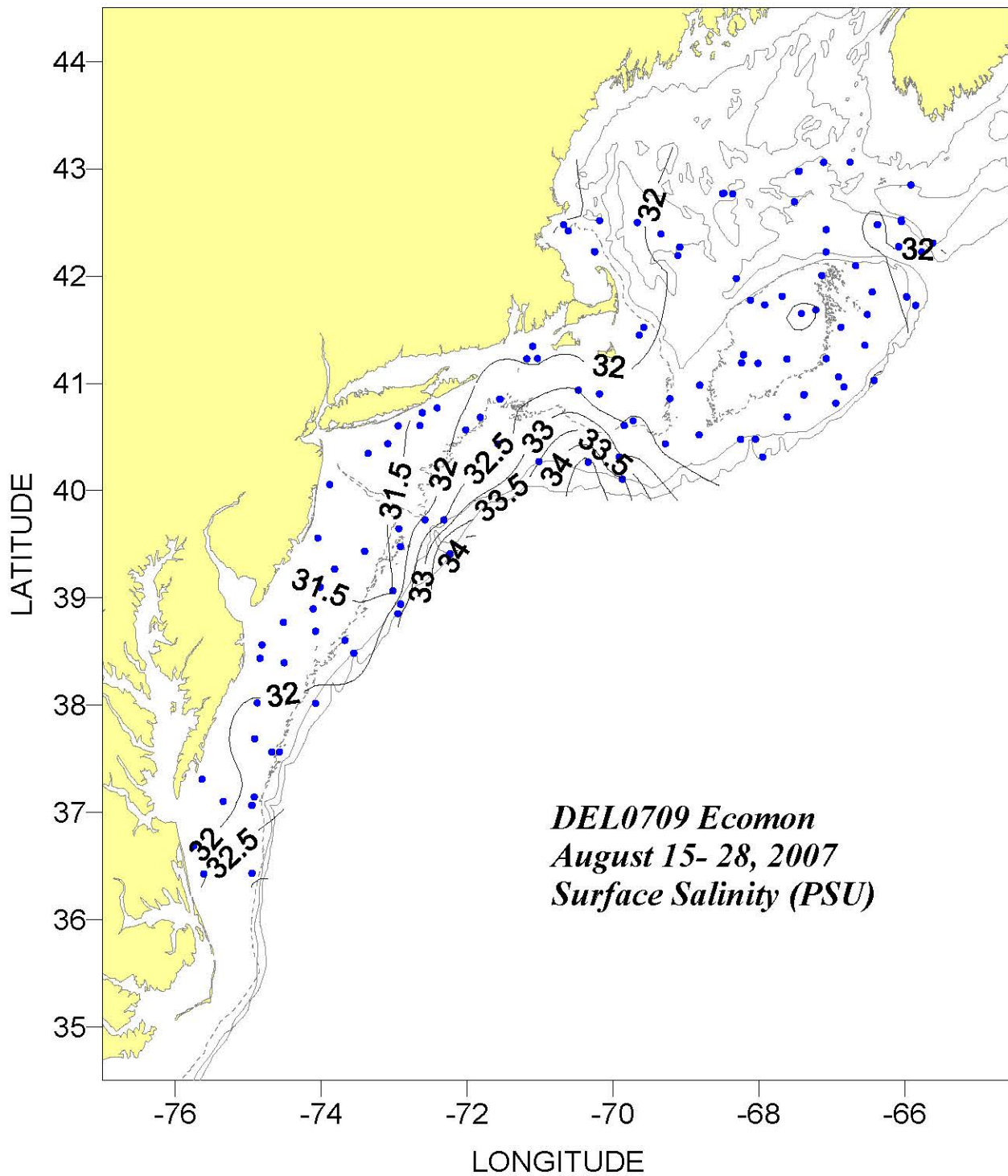
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.



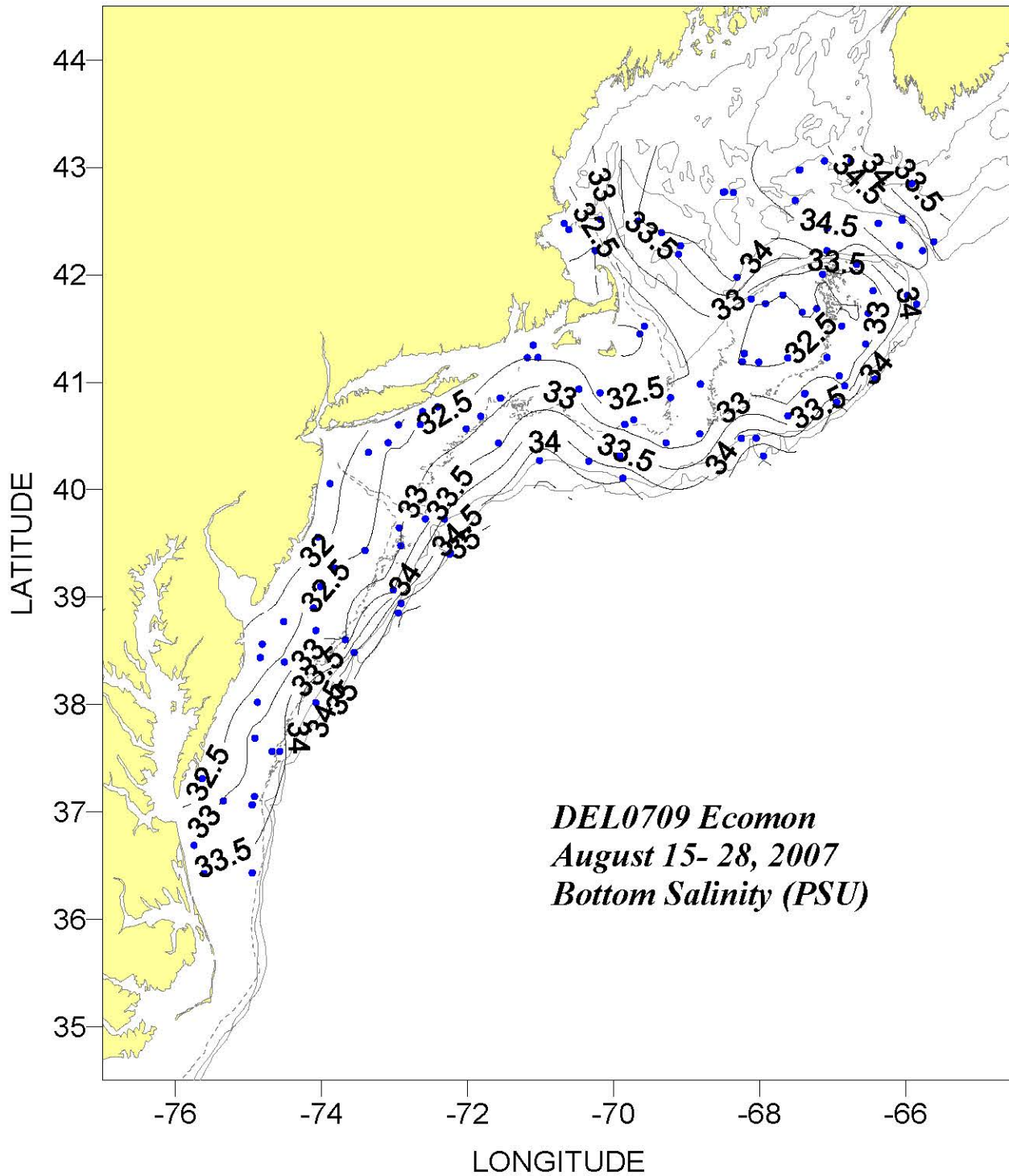


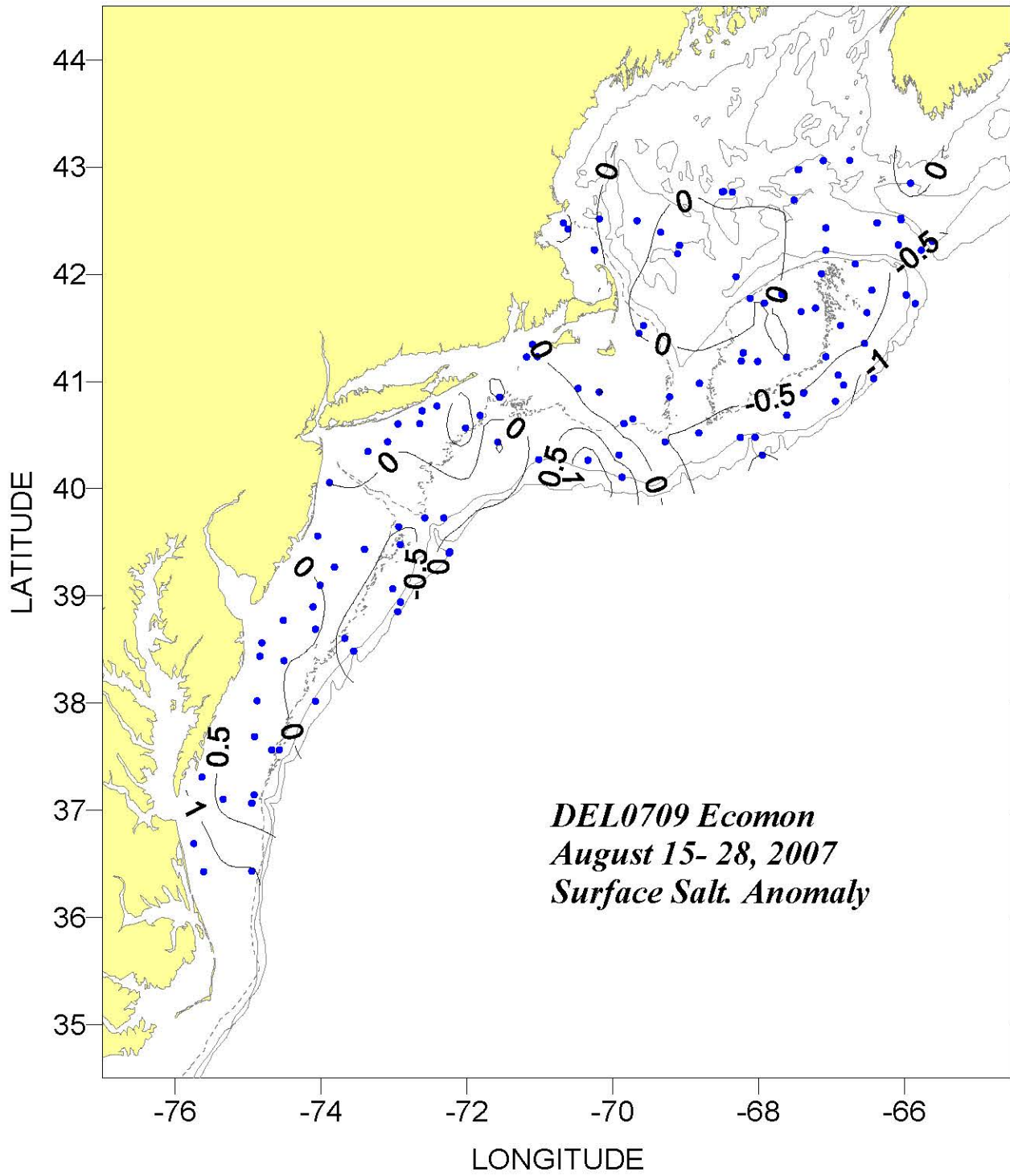


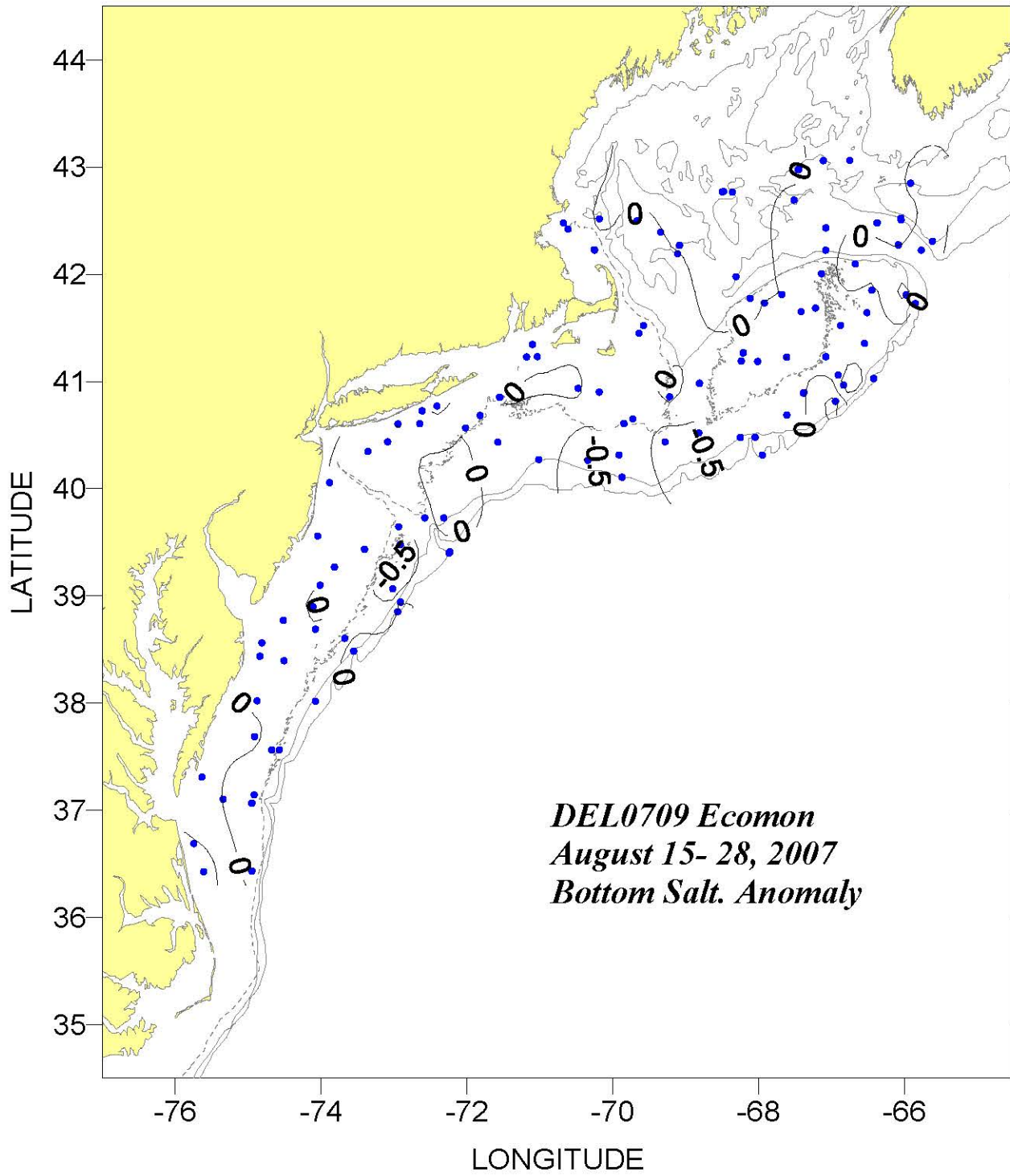












**Del0709 ECOMON**  
**15 - 28, August 2007**

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
1	1	4113.9	7102.0	15	8	2007	2:07	38	18.81	31.91	12.20	32.44	4
2	2	4056.2	7028.5	15	8	2007	6:07	45	18.44	32.51	10.32	32.88	4
3	3	4054.0	7011.1	15	8	2007	7:55	31	15.71	32.00	13.71	32.25	5
4	4	4039.0	6943.3	15	8	2007	11:34	54	18.49	32.60	10.87	32.68	5
5	5	4036.4	6950.7	15	8	2007	12:33	60	18.74	32.50	9.29	32.93	2
6	5	4036.5	6950.8	15	8	2007	12:46	60	18.85	32.51	9.27	32.93	4
7	6	4018.9	6954.8	15	8	2007	15:10	83	20.08	32.91	8.29	33.43	7
10	8	4006.4	6952.2	15	8	2007	21:01	110	23.04	34.08	10.36	34.49	4
11	9	4015.9	7020.4	16	8	2007	0:37	97	23.95	34.75	9.50	34.04	5
12	10	4016.3	7100.8	16	8	2007	5:24	112	22.47	33.50	11.06	34.88	5
13	11	4026.0	7134.5	16	8	2007	9:01	78	21.82	32.03	8.68	33.35	3
14	12	3943.6	7219.0	16	8	2007	16:27	98	23.32	32.35	8.08	33.46	41
15	12	3943.6	7219.0	16	8	2007	16:37	99	23.37	32.39	9.74	34.07	6
16	13	3924.0	7214.6	16	8	2007	19:45	279	25.07	34.59	8.68	35.17	6
17	13	3924.7	7213.9	16	8	2007	20:16	428	25.12	34.83	12.11	35.45	229
18	14	3943.6	7234.7	17	8	2007	0:12	76	23.44	32.03	7.26	33.21	4
19	15	3938.7	7256.2	17	8	2007	3:00	64	22.77	31.69	6.27	33.00	4
20	16	3928.7	7254.9	17	8	2007	4:34	65	22.93	31.69	6.92	32.95	4
21	17	3926.1	7324.2	17	8	2007	7:46	33	22.66	31.32	10.06	32.50	5
22	18	3903.9	7301.0	17	8	2007	11:40	80	23.58	31.41	7.10	33.27	5
23	19	3856.4	7254.6	17	8	2007	13:04	110	23.90	32.26	11.87	34.66	56
24	19	3856.6	7254.6	17	8	2007	13:15	110	23.89	32.21	11.95	35.29	10
25	20	3851.2	7256.9	17	8	2007	14:25	128	24.27	32.39	11.34	35.35	7
26	21	3836.2	7340.5	17	8	2007	19:37	63	24.33	31.62	6.19	32.87	4
27	21	3836.2	7340.5	17	8	2007	19:46	63	24.39	31.66	6.18	32.87	7
28	22	3829.1	7333.1	17	8	2007	21:07	91	24.55	31.62	10.78	34.60	3
29	23	3801.0	7404.6	18	8	2007	2:37	106	25.34	32.13	11.25	34.86	5
30	24	3733.8	7434.3	18	8	2007	7:35	65	25.79	32.18	7.41	33.26	6
31	25	3733.7	7440.5	18	8	2007	8:28	56	25.97	32.23	8.32	33.05	6
32	26	3708.6	7455.0	18	8	2007	11:43	46	26.10	32.07	8.99	33.16	6
33	27	3703.9	7456.9	18	8	2007	12:34	46	26.11	32.23	8.45	33.24	1
34	27	3703.8	7457.2	18	8	2007	12:45	44	26.12	32.22	8.45	33.21	5

**Del0709 ECOMON**  
**15 - 28, August 2007**

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
35	28	3625.9	7456.8	18	8	2007	17:51	39	25.62	32.97	12.85	33.55	6
36	29	3625.5	7536.6	18	8	2007	21:55	26	26.77	32.46	19.61	33.75	3
37	29	3625.6	7536.6	18	8	2007	22:04	26	26.76	32.45	19.65	33.75	6
38	30	3641.3	7544.7	19	8	2007	0:18	15	26.21	31.69	20.52	33.13	4
39	31	3706.1	7520.6	19	8	2007	4:30	26	25.57	31.78	14.48	33.08	3
40	32	3718.5	7538.0	19	8	2007	7:07	16	24.76	31.96	23.80	32.10	6
41	33	3741.2	7454.8	19	8	2007	12:07	28	24.96	32.19	13.27	33.22	1
42	33	3741.2	7454.7	19	8	2007	12:16	27	25.04	32.20	13.65	32.94	5
43	34	3801.2	7452.6	19	8	2007	14:56	29	23.51	32.04	14.42	32.66	5
44	35	3823.7	7430.5	19	8	2007	18:23	37	23.81	31.67	10.67	32.57	4
45	36	3826.1	7450.4	19	8	2007	20:46	22	23.62	31.78	14.69	32.29	2
46	36	3826.2	7450.3	19	8	2007	20:51	22	23.61	31.79	17.88	32.19	5
47	37	3833.6	7448.7	19	8	2007	21:57	26	23.79	32.00	13.48	32.36	5
48	38	3846.3	7431.0	20	8	2007	0:24	26	22.78	31.75	13.81	32.14	5
49	39	3841.3	7404.6	20	8	2007	3:12	52	23.07	31.87	7.47	32.81	3
50	40	3853.8	7406.7	20	8	2007	4:54	41	22.95	31.78	8.36	32.72	3
51	41	3905.9	7400.8	20	8	2007	6:46	38	22.59	31.48	9.87	32.53	4
52	42	3916.1	7349.0	20	8	2007	8:45	36	22.46	31.50	9.76	32.57	5
53	43	3933.5	7402.7	20	8	2007	11:23	23	22.24	31.15	16.18	31.70	5
54	44	4003.4	7352.9	20	8	2007	15:58	24	20.09	31.28	14.33	31.89	5
55	45	4020.8	7321.5	20	8	2007	20:36	33	19.71	31.42	11.00	32.18	5
56	45	4020.8	7321.5	20	8	2007	20:43	32	19.77	31.42	11.01	32.18	4
57	46	4026.3	7305.2	20	8	2007	23:00	37	19.83	31.32	9.65	32.50	5
58	47	4036.2	7256.8	21	8	2007	0:49	26	19.19	31.43	14.01	31.89	4
59	48	4036.4	7238.8	21	8	2007	3:07	37	18.73	31.62	9.64	32.61	4
60	49	4043.6	7236.8	21	8	2007	4:18	29	19.47	31.46	14.19	31.97	4
61	50	4046.2	7224.6	21	8	2007	5:52	34	18.74	31.58	14.61	32.00	5
62	51	4034.0	7201.1	21	8	2007	9:04	56	20.81	32.15	8.37	32.81	6
63	52	4041.0	7149.0	21	8	2007	10:49	54	20.99	32.14	8.20	32.92	3
64	53	4051.2	7132.8	21	8	2007	13:08	59	18.89	32.46	9.30	32.88	16
65	53	4051.2	7133.0	21	8	2007	13:22	59	18.73	32.39	9.01	32.87	4
66	54	4113.8	7110.8	21	8	2007	17:22	42	18.04	31.92	11.51	32.51	6

**Del0709 ECOMON**  
**15 - 28, August 2007**

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
67	55	4120.8	7106.0	21	8	2007	18:31	30	18.53	31.85	14.42	32.07	4
68	56	4127.0	6938.3	22	8	2007	16:57	27	15.56	31.83	11.29	31.93	4
69	57	4131.3	6934.7	22	8	2007	17:53	39	17.23	31.85	7.49	32.12	4
70	58	4058.8	6848.7	23	8	2007	1:07	73	15.54	32.43	13.04	32.52	4
71	58	4059.1	6848.5	23	8	2007	1:22	67	15.44	32.44	13.11	32.52	24
72	59	4051.4	6913.2	23	8	2007	3:49	61	16.54	32.41	11.19	32.63	6
73	60	4026.2	6916.9	23	8	2007	7:03	75	17.49	32.31	9.25	32.84	4
74	61	4031.2	6849.1	23	8	2007	10:10	70	17.32	32.16	8.92	32.77	4
75	62	4028.7	6814.9	23	8	2007	13:48	107	17.44	32.20	9.50	32.71	56
76	62	4028.7	6815.0	23	8	2007	13:58	107	17.46	32.20	9.40	34.22	7
77	63	4028.8	6802.8	23	8	2007	15:37	128	17.66	32.24	9.34	34.25	3
78	64	4018.8	6756.8	23	8	2007	17:37	169	17.79	32.27	9.78	35.01	3
79	65	4041.2	6736.7	23	8	2007	21:17	84	17.47	32.28	7.22	33.12	1
80	66	4053.5	6723.0	23	8	2007	23:25	82	17.15	32.30	9.02	32.70	16
81	66	4053.7	6722.6	23	8	2007	23:37	82	17.12	32.30	8.95	32.71	19
82	67	4048.8	6656.7	24	8	2007	2:27	98	16.86	32.11	9.56	34.55	2
83	68	4101.6	6625.1	24	8	2007	6:19	305	16.40	31.94	6.76	34.95	7
84	68	4101.7	6625.3	24	8	2007	6:39	305	16.30	31.95	9.26	35.05	105
85	69	4058.0	6650.0	24	8	2007	9:26	76	15.82	32.21	7.97	32.84	4
86	70	4103.6	6654.5	24	8	2007	10:25	70	15.01	32.15	8.82	32.76	5
87	71	4113.8	6704.6	24	8	2007	12:10	65	16.13	32.34	12.41	32.54	25
88	71	4113.9	6704.5	24	8	2007	12:22	65	16.16	32.35	11.27	32.58	5
89	72	4113.6	6736.8	24	8	2007	15:58	38	16.61	32.42	15.27	32.47	6
90	73	4111.2	6800.8	24	8	2007	18:22	45	16.71	32.42	16.29	32.43	4
91	74	4111.4	6814.2	24	8	2007	19:43	50	17.25	32.39	16.16	32.45	5
92	75	4115.9	6812.7	24	8	2007	20:34	48	16.96	32.46	15.96	32.48	3
93	75	4116.1	6812.4	24	8	2007	20:45	45	16.43	32.52	16.07	32.48	24
94	76	4158.7	6818.5	25	8	2007	1:40	191	15.89	32.38	6.59	34.25	5
95	77	4146.6	6806.9	25	8	2007	3:58	47	16.28	32.49	10.50	32.57	5
96	78	4144.0	6755.1	25	8	2007	5:16	28	16.66	32.48	15.27	32.48	6
97	79	4148.7	6740.8	25	8	2007	7:11	34	15.58	32.46	15.42	32.46	5
98	80	4139.1	6725.0	25	8	2007	9:41	58	16.05	32.53	16.02	32.53	5

**Del0709 ECOMON**  
**15 - 28, August 2007**

Cast #	Sta #	Lat	Long	Day	Mo	Year	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
99	81	4141.1	6713.1	25	8	2007	11:00	57	15.24	32.51	15.20	32.51	4
100	82	4131.4	6652.6	25	8	2007	13:38	67	16.38	32.30	12.32	32.53	30
101	82	4131.4	6652.5	25	8	2007	13:48	67	16.40	32.32	11.23	32.58	4
102	83	4121.3	6632.8	25	8	2007	16:04	90	16.31	32.28	8.31	32.73	4
103	84	4138.5	6630.8	25	8	2007	18:45	77	16.42	32.37	9.89	32.56	4
104	85	4143.6	6551.0	25	8	2007	22:46	128	16.05	31.93	7.29	34.02	5
105	86	4148.6	6558.5	26	8	2007	0:10	97	15.78	31.92	6.47	33.59	5
106	86	4148.4	6558.2	26	8	2007	0:25	97	15.75	31.90	6.41	33.56	22
107	87	4151.1	6626.7	26	8	2007	3:31	78	17.09	32.24	7.39	32.70	4
108	88	4205.8	6640.4	26	8	2007	6:55	74	17.69	32.17	5.61	33.10	3
109	89	4200.4	6708.2	26	8	2007	9:52	55	15.89	32.28	13.60	32.48	4
110	90	4213.5	6704.7	26	8	2007	11:26	208	17.81	32.16	7.52	34.62	4
111	91	4226.0	6704.6	26	8	2007	13:40	363	16.12	32.25	7.03	34.91	2
112	91	4226.0	6704.5	26	8	2007	14:06	362	16.24	32.25	7.13	34.88	162
113	92	4228.8	6622.6	26	8	2007	18:08	250	14.78	31.83	7.94	34.89	7
114	92	4228.8	6622.3	26	8	2007	18:27	250	14.66	31.89	8.02	34.85	50
115	93	4216.5	6605.0	26	8	2007	20:55	268	16.60	32.10	7.35	34.91	5
116	93	4216.4	6604.9	26	8	2007	21:13	265	16.07	31.96	7.77	34.92	64
117	94	4213.5	6546.1	26	8	2007	23:46	220	14.51	31.77	8.29	34.94	15
118	95	4218.5	6536.9	27	8	2007	1:34	106	12.34	32.02	6.23	33.71	4
119	96	4231.5	6602.8	27	8	2007	5:05	172	13.73	32.18	8.11	34.58	3
120	96	4230.4	6602.7	27	8	2007	5:31	190	13.65	32.17	6.33	32.78	126
121	97	4251.0	6555.0	27	8	2007	8:31	86	12.88	32.41	7.14	33.12	3
122	98	4303.8	6644.9	27	8	2007	13:04	122	14.47	32.35	7.42	34.16	4
123	99	4303.7	6706.5	27	8	2007	15:10	199	16.09	32.28	6.93	33.40	123
124	99	4303.6	6706.7	27	8	2007	15:22	202	16.56	32.30	7.64	34.71	5
125	100	4258.7	6726.7	27	8	2007	17:37	230	17.33	32.29	7.46	34.68	30
126	100	4258.5	6727.5	27	8	2007	18:13	229	17.11	32.29	7.46	34.70	4
127	101	4241.6	6730.8	27	8	2007	20:28	190	16.65	32.30	7.19	34.72	4
128	102	4246.0	6821.5	28	8	2007	1:19	208	17.39	32.25	6.85	34.40	6
129	103	4246.2	6829.8	28	8	2007	2:28	188	16.68	32.25	6.88	34.38	7
130	103	4246.3	6828.7	28	8	2007	2:55	196	16.65	32.25	6.54	33.36	104

**Del0709 ECOMON**  
**15 - 28, August 2007**

<b>Cast #</b>	<b>Sta #</b>	<b>Lat</b>	<b>Long</b>	<b>Day</b>	<b>Mo</b>	<b>Year</b>	<b>Time (GMT)</b>	<b>Btm Depth</b>	<b>Sfc Temp</b>	<b>Sfc Salt</b>	<b>Btm Temp</b>	<b>Btm Salt</b>	<b>Meters from Bottom</b>
131	104	4211.5	6906.6	28	8	2007	8:10	171	19.77	31.99	5.76	33.51	6
132	105	4216.2	6905.0	28	8	2007	9:10	197	19.35	32.01	6.65	33.87	5
133	106	4223.6	6920.5	28	8	2007	11:13	247	19.56	32.19	6.64	34.01	3
134	106	4223.6	6920.6	28	8	2007	11:33	246	19.64	32.17	6.85	33.95	45
135	107	4229.9	6940.0	28	8	2007	13:41	252	19.42	31.91	6.75	34.02	4
136	107	4230.0	6940.0	28	8	2007	13:58	242	19.36	31.96	6.61	33.91	42
137	108	4231.1	7011.0	28	8	2007	17:19	77	19.84	31.51	5.80	32.60	5
138	109	4228.7	7040.5	28	8	2007	20:34	61	19.71	31.51	6.39	32.25	5
139	110	4225.3	7036.7	28	8	2007	21:13	84	19.44	31.51	6.13	32.32	4
140	111	4213.8	7015.2	28	8	2007	23:49	28	19.34	31.59	8.26	31.95	4
141	111	4213.5	7014.9	28	8	2007	23:58	28	19.18	31.54	8.36	31.92	5