

Oceanography Branch CTD Data Report
CTD_REPORT_2010009DE

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DATE: Revised: July 21, 2011

Oceanography Branch CTD Data Report

CTD_REPORT_2010009DE

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

DE 10-09
EcoMon Survey
Data Coverage: 19 August – 1 September, 2010
GOM, MAB, GB

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's HydroAcoustic research survey aboard the NOAA FSV *Delaware II*. All data was obtained with Seabird Electronics SBE Model 19+ profiling CTD (s/n 4758).

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:

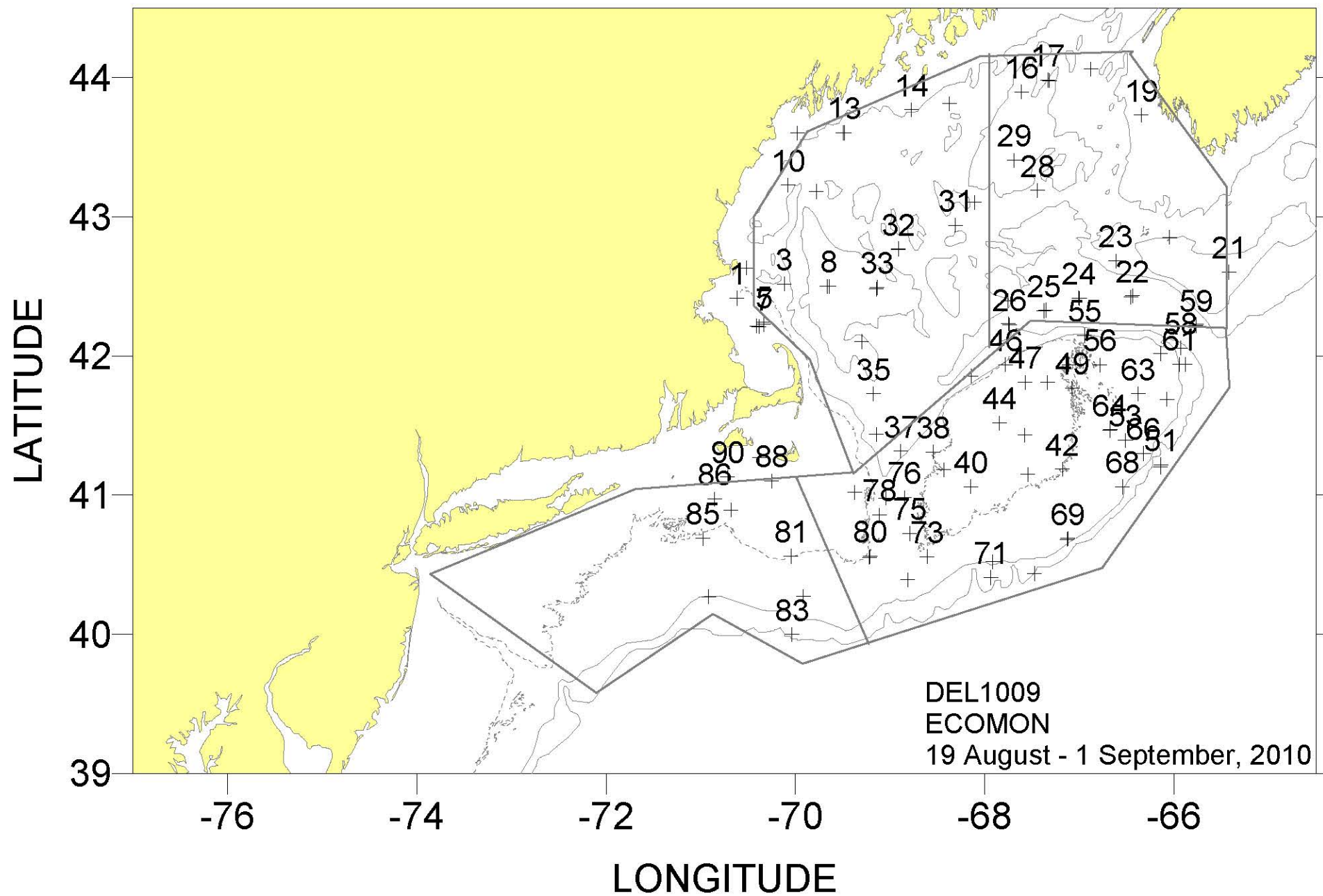
<ftp://ftp.nefsc.noaa.gov/pub/hydro/del1010.dat>

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

<http://www.nefsc.noaa.gov/HydroAtlas/>

choose: **2010 Cruises**
 AUG_ECOMON_DEL1009
 CTD_REPORT_2010009DE

Revised: July 21, 2011



Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for DEL1009 ECOMON.

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
GOM West														
DEL1009	234	23	18.40	1.60	0.22	1.53	0	21	7.59	1.22	0.19	1.20	0	22
DEL1009	234	23	31.81	-0.17	0.14	0.34	0	21	33.42	0.09	0.12	0.37	0	22
GOM East														
DEL1009	234	19	16.74	1.74	0.25	1.40	0	14	9.05	0.71	0.27	1.86	0	22
DEL1009	234	19	32.22	-0.15	0.19	0.34	0	14	34.23	-0.02	0.15	0.37	0	22
Georges Bank														
DEL1009	241	41	18.73	2.54	0.18	1.48	0	37	12.55	0.36	0.17	1.85	1	22
DEL1009	241	41	32.32	-0.32	0.11	0.43	0	37	32.59	-0.23	0.10	0.69	1	22
MAB North														
DEL1009	244	7	22.62	3.8	0.46	0.63	1	6	10.41	-0.94	0.5	1.08	1	22
DEL1009	244	7	33.03	0.44	0.28	0.53	1	6	32.73	-0.37	0.31	0.41	1	22

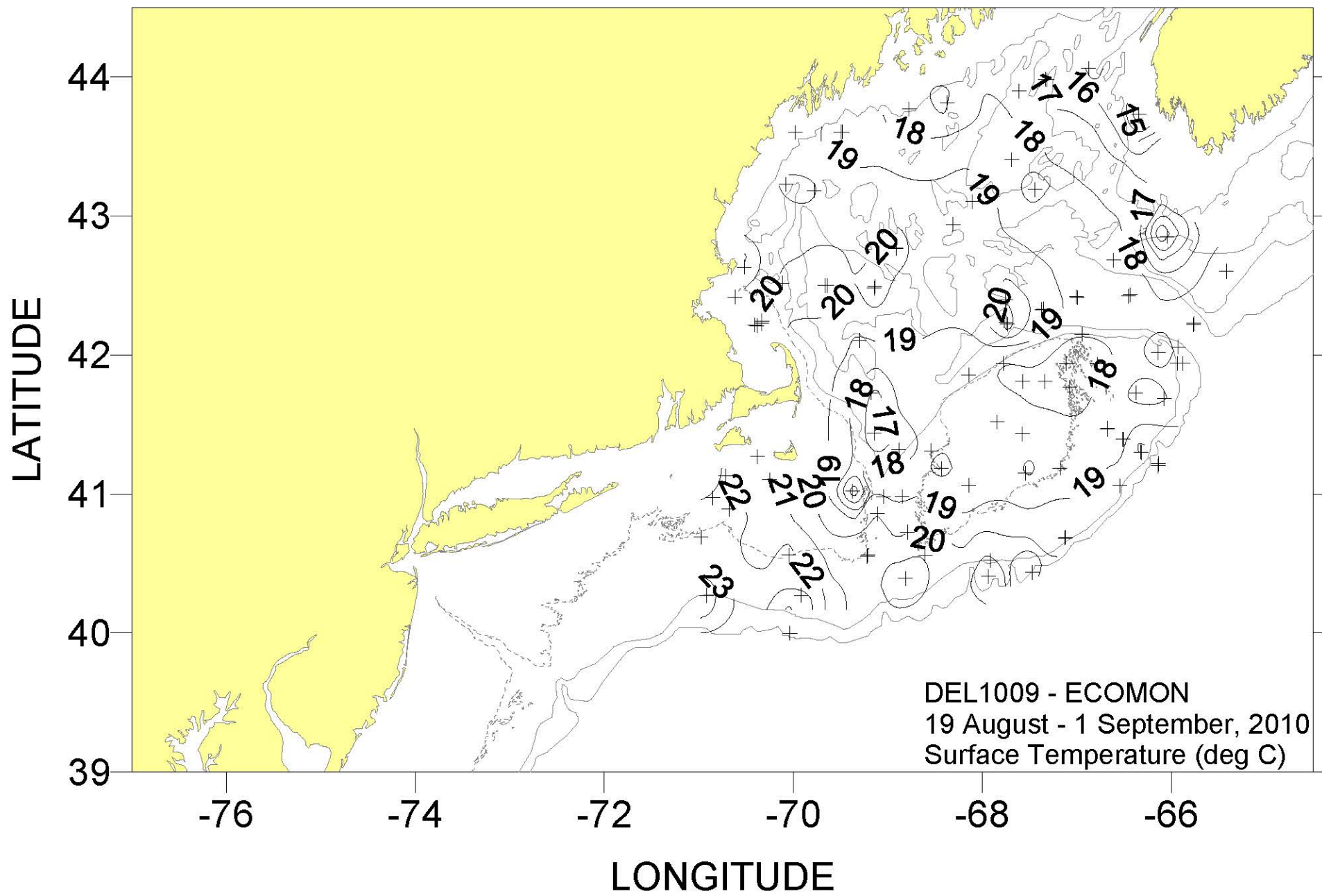
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

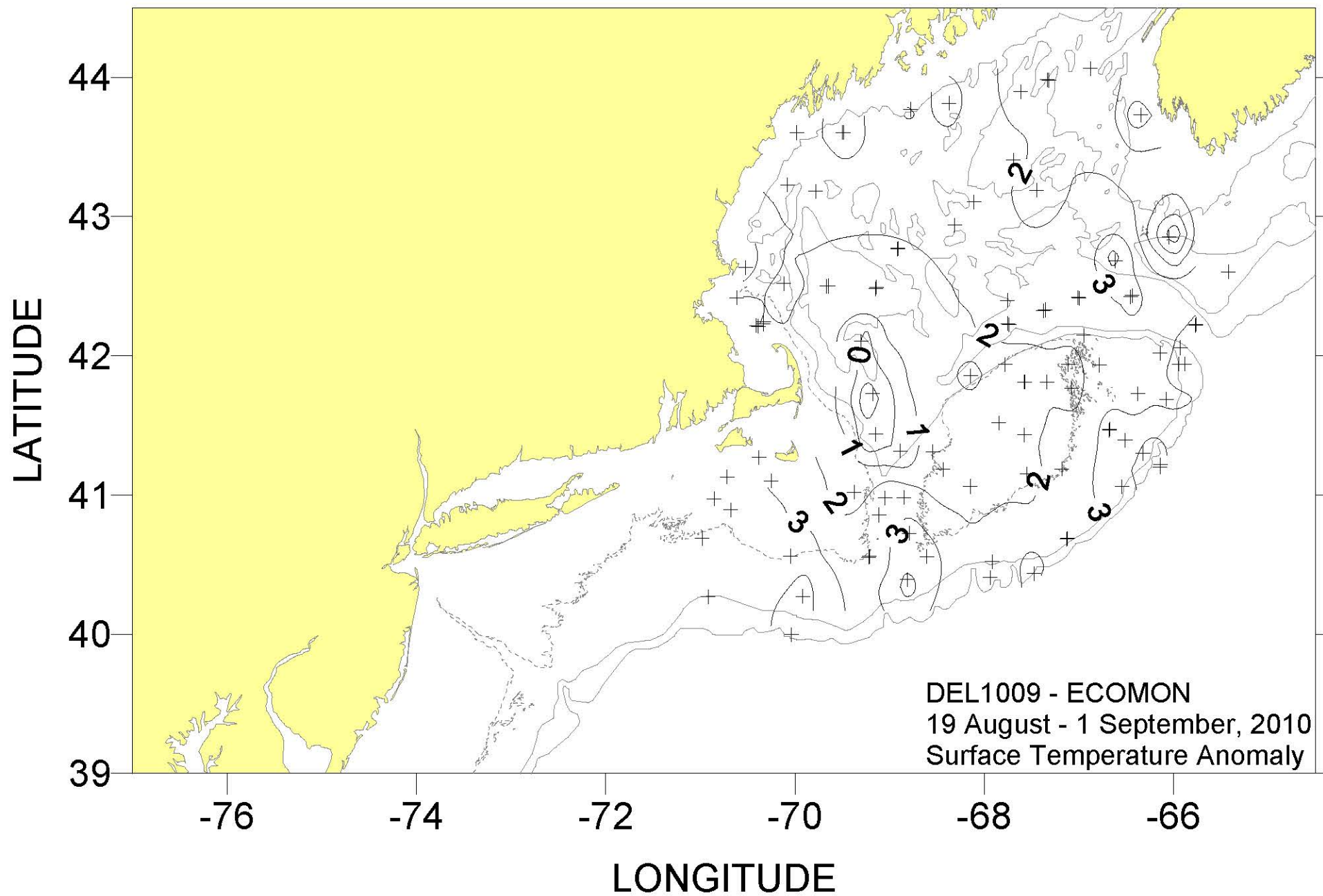
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

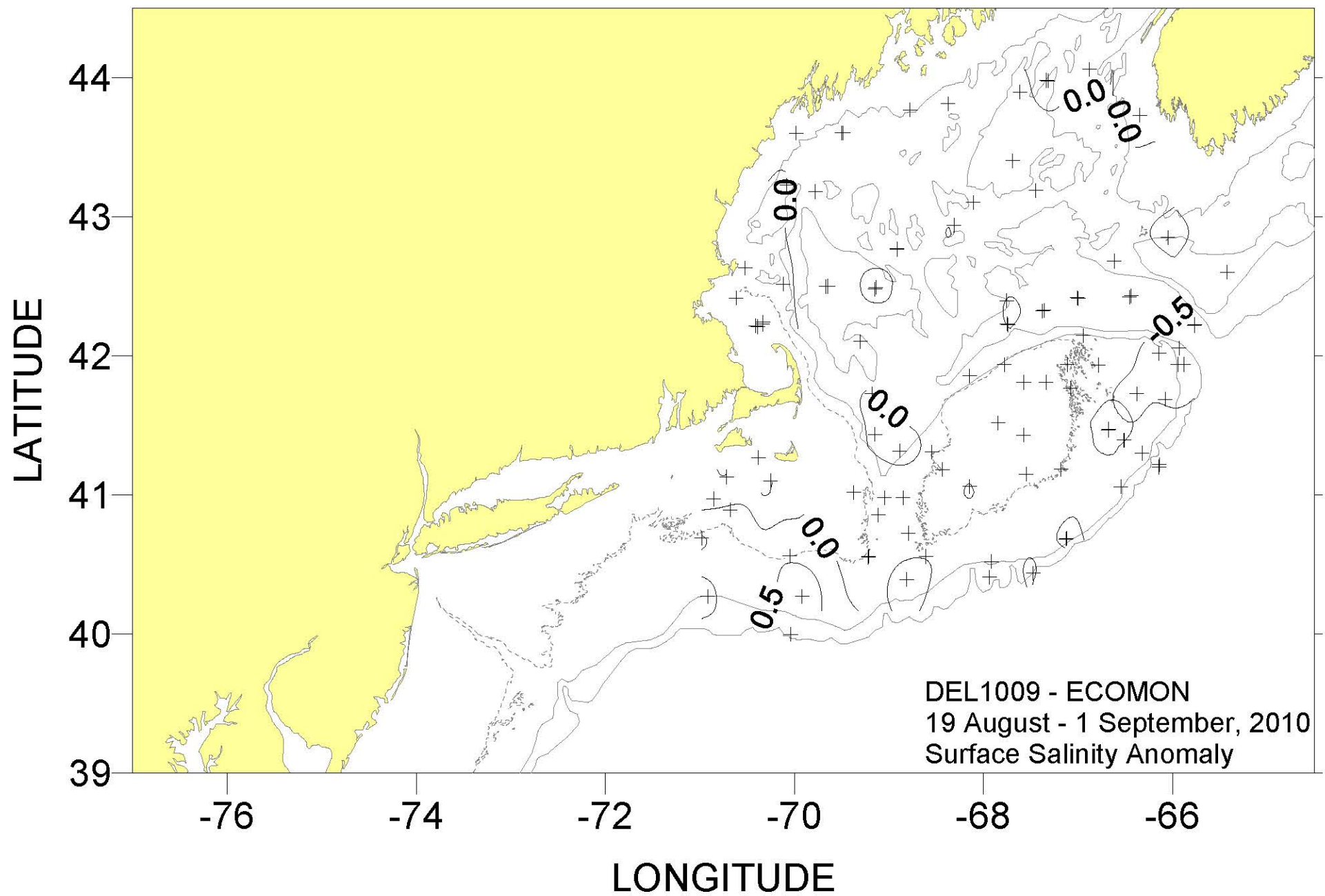
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

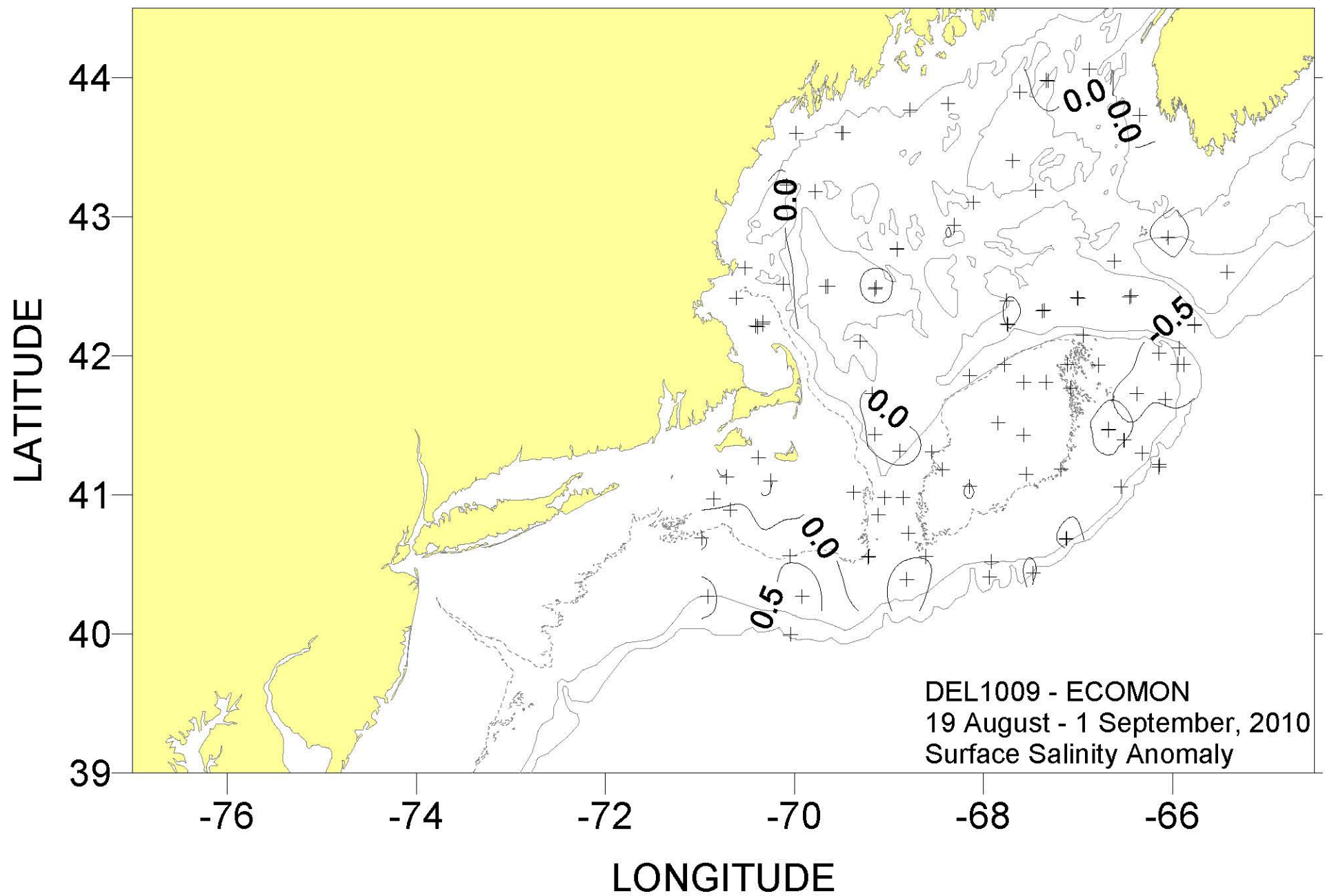
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

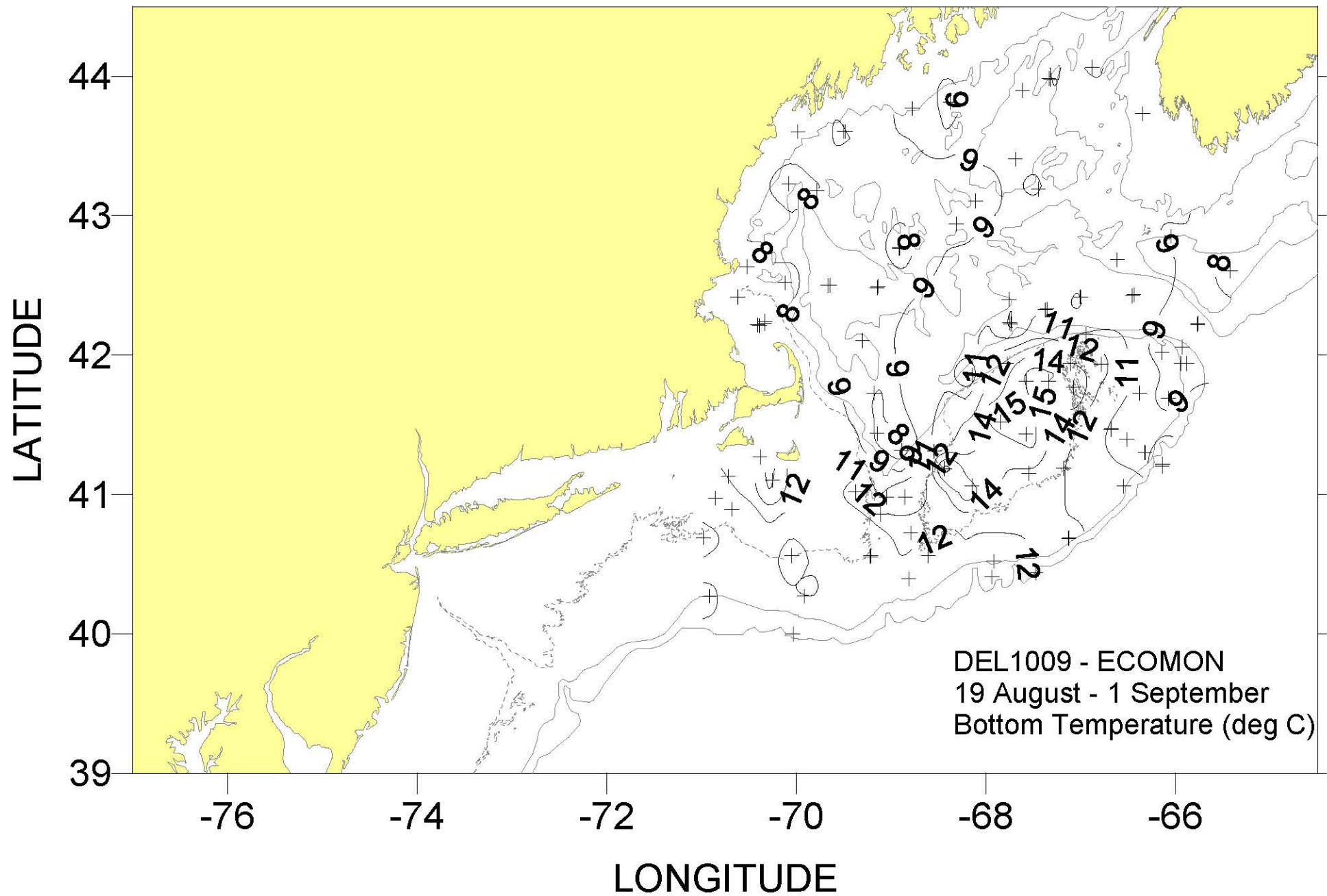
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

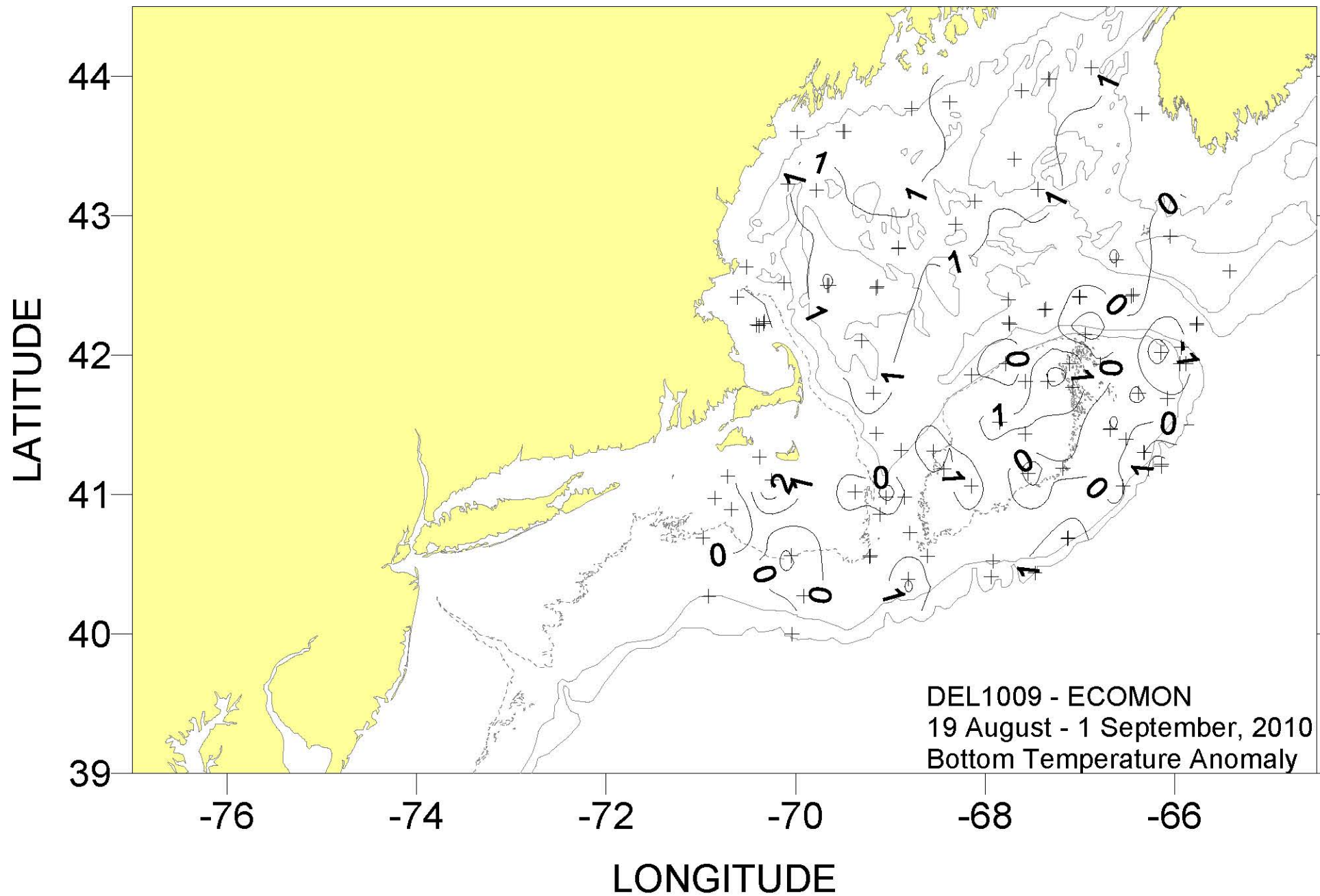


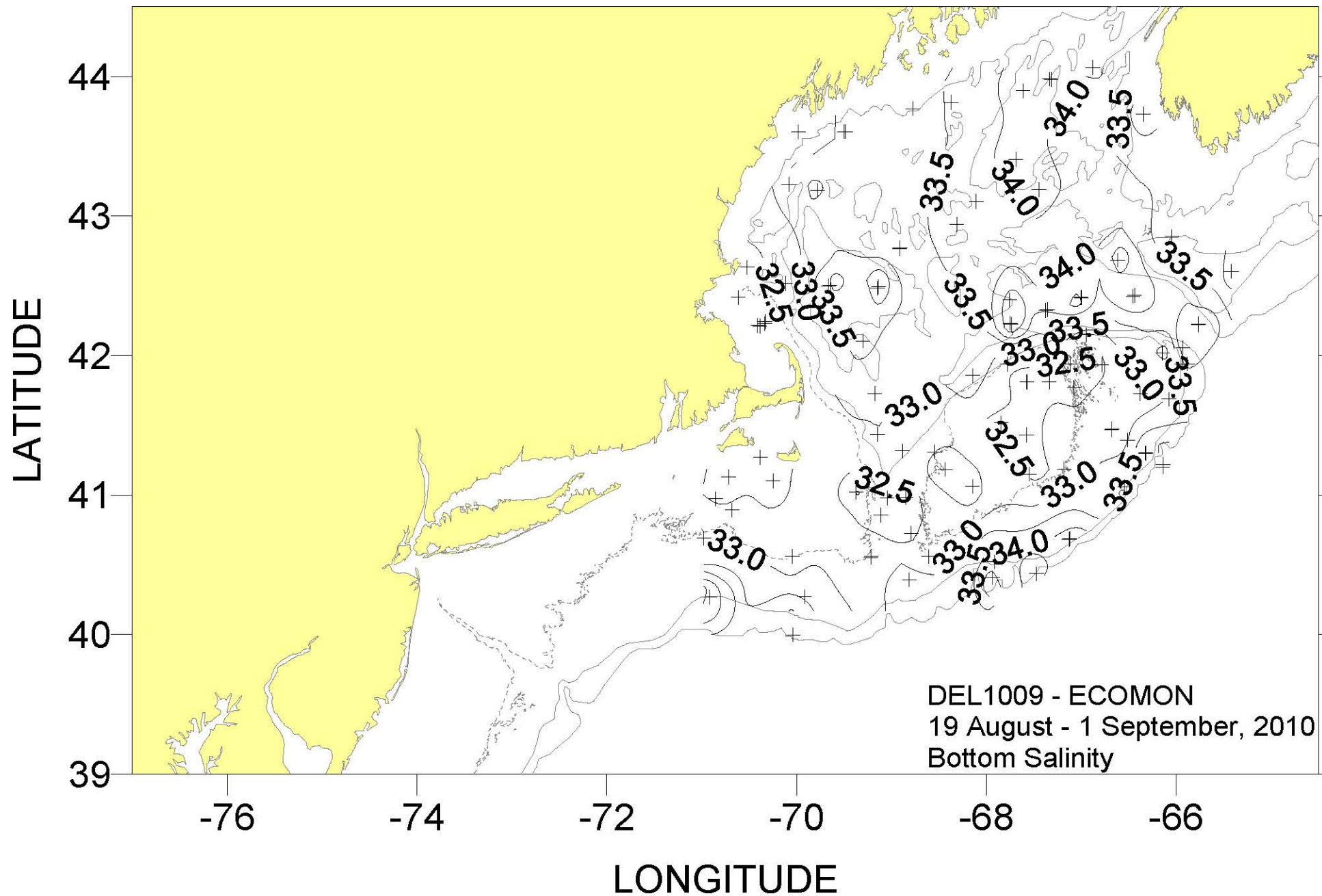


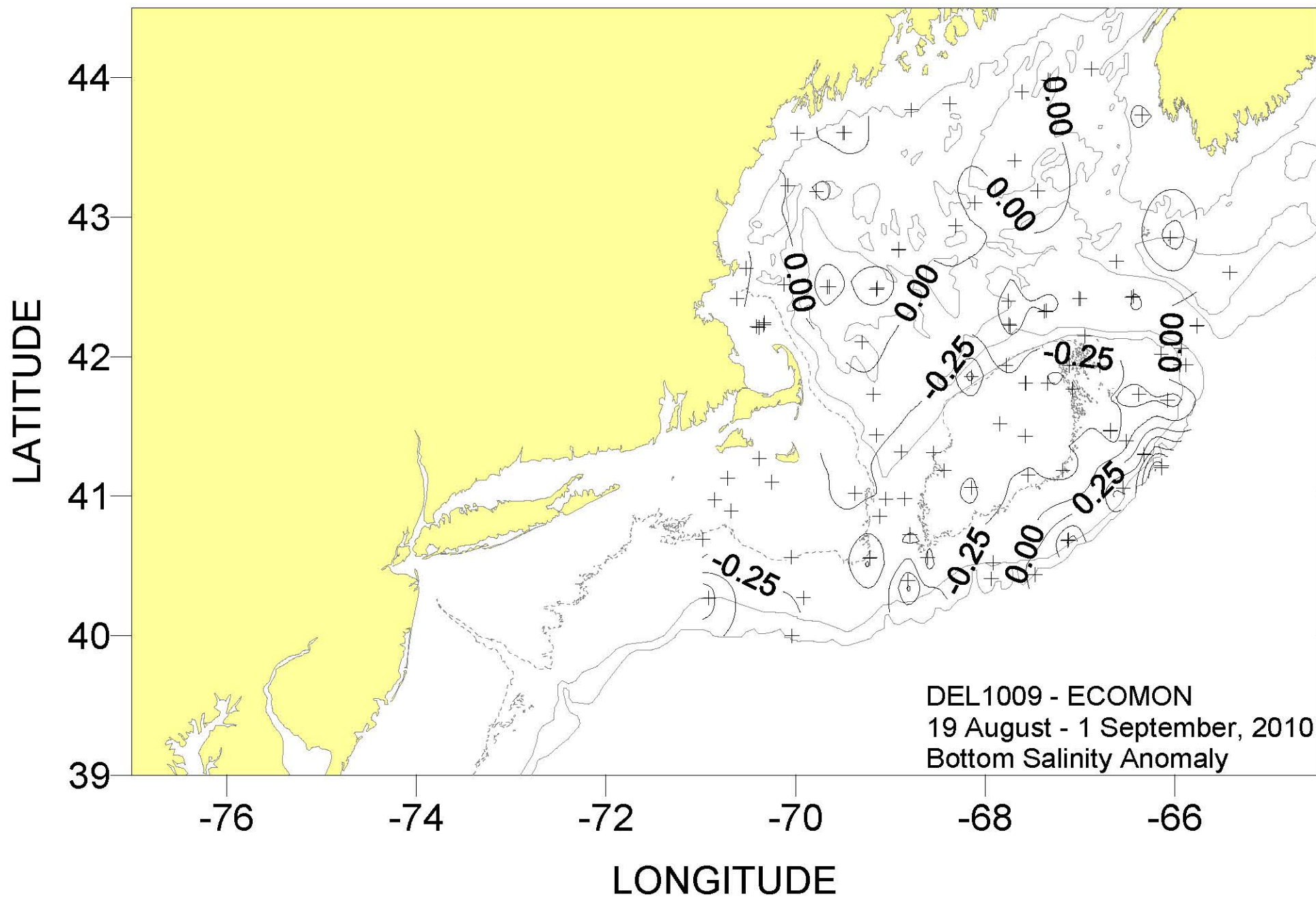












DEL1009
ECOMON
19 August - 1 September, 2010

Cast #	Station #	Latitude	Longitude	Dat	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
1	1	4225.0	7037.0	19	8	2010	2:25	84	19.4	31.45	6.6	32.23	5
2	2	4238.0	7031.2	19	8	2010	4:04	78	16.7	31.54	6.9	32.19	5
3	3	4231.1	7007.1	19	8	2010	6:19	85	19.9	31.65	6.8	32.5	5
4	4	4213.0	7024.6	19	8	2010	18:32	67	19.9	31.43	6.9	32.19	4
5	5	4214.6	7019.9	19	8	2010	19:12	55	20.3	31.4	6.8	32.19	6
6	6	4212.7	7023.2	20	8	2010	0:37	66	19.5	31.41	6.8	32.2	4
7	7	4213.7	7020.1	20	8	2010	1:07	52	19.2	31.44	6.8	32.19	3
8	8	4230.0	6939.9	20	8	2010	4:31	245	20.3	31.62	8.2	34.3	44
9	8	4230.1	6938.8	20	8	2010	4:58	251	20.3	31.61	8.5	34.44	4
10	9	4311.0	6946.8	20	8	2010	9:22	170	19.7	31.66	7.3	33.73	6
11	10	4313.7	7004.8	20	8	2010	11:13	158	19.7	31.6	6.2	33.11	4
13	12	4336.2	6958.9	20	8	2010	14:48	64	19.3	31.27	9.4	32.26	5
14	13	4336.3	6929.1	20	8	2010	17:36	127	17.9	31.93	7.2	32.94	6
15	13	4336.3	6929.8	20	8	2010	17:55	134	17.8	31.91	7.1	33.01	2
16	14	4346.2	6846.6	20	8	2010	21:42	97	15.8	32.18	9.4	32.86	4
17	15	4348.9	6822.4	20	8	2010	23:47	137	15.8	32.48	8.8	33.58	3
18	16	4353.9	6736.8	21	8	2010	3:31	211	17.3	32.42	9	34.56	4
19	17	4358.8	6719.0	21	8	2010	5:24	229	15.8	32.48	8.9	34.43	28
20	17	4359.0	6720.1	21	8	2010	5:49	202	15.8	32.48	8.8	34.41	4
21	18	4403.8	6652.7	21	8	2010	8:13	167	13.5	32.61	8.8	34.14	6
22	19	4343.9	6620.8	21	8	2010	12:10	64	11.7	32.43	9.9	32.64	9
23	20	4251.2	6602.8	21	8	2010	17:36	88	11.4	32.49	8.8	33.06	4
24	21	4236.2	6525.2	21	8	2010	21:01	94	18	31.56	6.5	32.78	4
25	21	4236.2	6525.2	21	8	2010	21:15	95	17.7	31.75	6.5	32.78	4
26	22	4226.0	6626.3	22	8	2010	2:40	270	17.9	32.17	8.5	35.05	70
27	22	4225.5	6627.3	22	8	2010	3:07	275	17.9	32.17	8.4	35.06	5
28	23	4241.0	6636.9	22	8	2010	5:13	170	18.4	32.1	10	34.94	4

Cast #	Station #	Latitude	Longitude	Dat	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
29	24	4224.9	6659.9	22	8	2010	7:55	364	17.7	32.07	8.5	35.1	161
30	24	4225.1	6700.4	22	8	2010	8:21	364	17.6	32.08	8.2	35.09	10
31	25	4219.8	6721.4	22	8	2010	10:33	297	20.2	31.63	9	35.12	95
32	25	4219.5	6722.5	22	8	2010	11:04	297	20.2	31.63	8.5	35.09	3
33	26	4213.9	6745.0	22	8	2010	13:25	226	20.9	31.66	8.8	34.93	26
34	26	4213.4	6744.3	22	8	2010	13:49	222	20.8	31.66	8.8	34.97	3
35	27	4223.9	6745.3	22	8	2010	15:08	203	20.7	31.59	8.9	35.03	9
36	28	4311.4	6726.7	22	8	2010	21:04	193	16.9	32.37	8.7	34.51	6
37	29	4324.4	6741.4	22	8	2010	23:04	249	18	32.32	8.8	34.4	48
38	29	4324.4	6741.4	22	8	2010	23:25	245	18.2	32.33	9.1	34.55	5
39	30	4306.3	6806.5	23	8	2010	2:34	169	19.5	31.94	7.7	33.89	9
40	31	4256.4	6818.7	23	8	2010	4:24	183	19.5	31.72	8.4	34.26	6
41	32	4246.3	6854.7	23	8	2010	7:54	98	19.9	31.72	6.6	33.04	6
42	32	4246.0	6854.8	23	8	2010	8:19	93	19.8	31.7	6.5	33.02	6
43	33	4228.9	6908.8	23	8	2010	10:43	228	20	31.5	8.7	34.59	27
44	33	4229.6	6908.3	23	8	2010	11:13	221	20	31.5	8.7	34.63	5
45	34	4206.3	6918.1	25	8	2010	21:19	206	18.2	31.62	7.4	33.87	4
46	35	4143.7	6910.7	26	8	2010	0:53	180	15.6	31.84	6.7	33.48	3
47	36	4126.2	6908.8	26	8	2010	3:15	151	14.5	31.87	6	33.03	4
48	37	4119.0	6853.2	26	8	2010	5:18	131	16.8	32.04	5.8	32.82	5
49	37	4119.0	6853.2	26	8	2010	5:37	132	16.8	32.04	5.8	32.85	6
50	38	4118.6	6832.7	26	8	2010	7:28	65	17.3	32.05	10	32.4	6
51	39	4111.0	6826.1	26	8	2010	8:52	50	17.2	32.06	17.1	32.06	2
52	40	4103.7	6808.8	26	8	2010	10:37	49	17.3	31.95	17.3	31.95	1
53	41	4109.0	6732.8	26	8	2010	13:52	54	17.1	32.07	13.5	32.21	1
54	42	4111.2	6710.8	26	8	2010	15:49	61	18.1	32.23	11.9	32.33	5
55	43	4125.9	6734.6	26	8	2010	18:46	40	17.9	32	17.8	32	3
56	44	4131.1	6750.7	26	8	2010	20:43	37	18.2	31.99	18.2	31.99	3
57	45	4151.4	6808.7	26	8	2010	23:28	157	17.4	32.07	6.6	33.36	3
58	46	4156.3	6746.8	27	8	2010	1:43	53	16.3	32.14	13	32.29	3
60	47	4148.7	6734.5	27	8	2010	3:35	51	17	32.05	16.8	32.06	1
61	47	4148.7	6734.4	27	8	2010	3:46	47	16.9	32.05	16.9	32.06	7
62	48	4148.7	6720.3	27	8	2010	4:55	60	16.7	32.04	16.7	32.04	6
63	49	4146.1	6704.6	27	8	2010	6:13	56	16	32.06	16	32.06	5
64	50	4128.4	6640.6	27	8	2010	8:26	79	17.5	32.22	10.7	32.43	2

Cast #	Station #	Latitude	Longitude	Dat	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
65	51	4113.1	6608.3	27	8	2010	18:13	101	19.6	32.51	13.3	35.48	0
66	52	4118.0	6619.3	27	8	2010	19:25	99	19.8	32.64	9.6	33.87	5
67	53	4123.7	6630.9	27	8	2010	20:49	90	17.4	31.99	10.1	32.58	4
68	54	4156.3	6706.8	29	8	2010	1:19	58	15.4	32.13	15.3	32.15	3
69	55	4208.9	6656.8	29	8	2010	2:58	87	18.1	31.87	7.9	32.76	5
70	56	4156.1	6647.1	29	8	2010	4:55	65	17	32.09	13	32.23	4
71	56	4156.1	6647.1	29	8	2010	5:07	64	17	32.09	13	32.22	2
72	57	4201.1	6608.6	29	8	2010	7:58	93	16.9	31.91	7.6	32.75	1
73	58	4203.5	6555.8	29	8	2010	9:13	214	17.6	31.9	6.9	35.03	8
74	59	4213.6	6545.9	29	8	2010	10:55	226	17.7	31.89	8.3	35.03	25
75	59	4213.1	6546.1	29	8	2010	11:18	225	17.8	31.87	7.8	35.01	4
76	60	4156.4	6552.9	29	8	2010	13:19	131	18.3	31.88	8.7	34.13	3
77	61	4156.4	6556.5	29	8	2010	13:58	106	18.2	31.88	8.3	33.42	1
78	62	4141.3	6604.6	29	8	2010	15:55	101	17.2	32.08	8	32.93	5
79	63	4143.7	6622.7	29	8	2010	17:28	76	17	31.98	10.1	32.41	0
80	64	4128.0	6640.8	29	8	2010	19:46	79	18.1	32.02	10.2	32.51	5
81	64	4128.0	6640.8	29	8	2010	20:04	80	18	32.02	10.1	32.52	4
82	65	4112.1	6608.5	30	8	2010	3:10	1253	21.1	33.37	15.8	35.92	1153
83	66	4118.1	6619.4	30	8	2010	4:15	97	20.1	32.84	10	34.07	5
84	67	4123.7	6630.7	30	8	2010	5:28	91	17.9	32.02	8.9	32.88	5
85	68	4103.6	6632.7	30	8	2010	7:49	92	19.5	32.58	11.1	34.26	4
86	69	4041.0	6707.7	30	8	2010	11:25	110	19.1	32.25	12.6	34.77	5
87	69	4041.3	6707.3	30	8	2010	11:40	107	19.1	32.26	11.3	34.25	25
88	70	4026.2	6728.4	30	8	2010	13:56	186	22.2	33.5	12.3	35.42	4
89	71	4024.5	6756.2	30	8	2010	16:25	180	22.2	32.98	11.2	35.29	1
90	72	4031.3	6755.0	30	8	2010	17:28	103	20.6	32.5	10.9	34.23	6
91	73	4033.5	6836.5	30	8	2010	20:51	70	21.1	32.7	10.4	32.76	3
92	74	4023.6	6848.8	30	8	2010	22:19	83	22.7	33.37	12	33.99	3
93	75	4043.5	6847.6	31	8	2010	0:51	65	19.6	32.17	13.6	32.18	5
94	75	4043.5	6847.6	31	8	2010	1:01	65	19.5	32.2	13.4	32.19	4
95	76	4058.9	6851.0	31	8	2010	2:46	71	18	32	12.7	32.25	3
96	77	4058.8	6902.8	31	8	2010	3:52	79	18.4	32.52	8.9	32.29	3
97	78	4051.4	6906.7	31	8	2010	5:00	77	19.6	32.41	12.8	32.28	6
98	79	4101.2	6922.4	31	8	2010	6:46	42	14.9	31.97	13.2	31.94	0
99	80	4033.6	6912.8	31	8	2010	9:49	66	20.8	32.48	10.6	32.52	7

Cast #	Station #	Latitude	Longitude	Dat	Month	Year	Time	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Btm
100	80	4033.2	6913.1	31	8	2010	10:03	69	20.8	32.48	10.6	32.52	9
101	81	4033.7	7002.8	31	8	2010	13:43	60	21.9	33.2	9.7	32.65	2
102	82	4016.3	6955.0	31	8	2010	15:48	89	23.3	33.97	9.8	33.34	6
103	83	3959.9	7002.2	31	8	2010	17:45	162	27.1	34.99	14.1	35.8	5
104	84	4016.2	7055.0	31	8	2010	22:23	119	25.1	34.03	12.7	35.6	5
105	85	4041.4	7058.7	1	9	2010	1:27	64	22.5	33.12	9.5	33.1	4
106	86	4058.4	7051.2	1	9	2010	3:39	52	21.6	31.82	11.7	32.33	6
107	86	4058.4	7051.2	1	9	2010	3:50	52	21.3	31.91	11.7	32.33	4
108	87	4053.6	7040.8	1	9	2010	4:55	51	22.8	33.12	10.1	32.61	5
109	88	4106.1	7015.0	1	9	2010	7:22	29	21.1	31.59	16.3	99.99	2
110	89	4116.2	7022.9	1	9	2010	8:46	15	20.3	31.52	18.2	31.82	5
111	90	4107.8	7043.0	1	9	2010	10:38	39	21.7	31.52	12.3	32.26	4