

Oceanography Branch CTD Data Report
CTD_REPORT_2012005HB

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DATE: February 12, 2014

Oceanography Branch CTD Data Report

CTD_REPORT_2012005HB

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

HB 12-05
ECOMON
Data Coverage: August 7 - 24, 2012
Mid Atlantic Bight, Georges Bank, Gulf of Maine

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's HB1205 ECOMON Survey aboard the NOAA FSV *Henry B Bigelow*. Data was obtained with three Seabird Electronics SBE Model 19+ profiling CTD (s/n's 4477, 4684, & 4759) and a Seabird Electronics SBE Model 9/11+ CTD (s/n 0420). Sea water samples were taken for the purpose of correcting salinity values for both instruments. No salinity correction was necessary for any instrument.

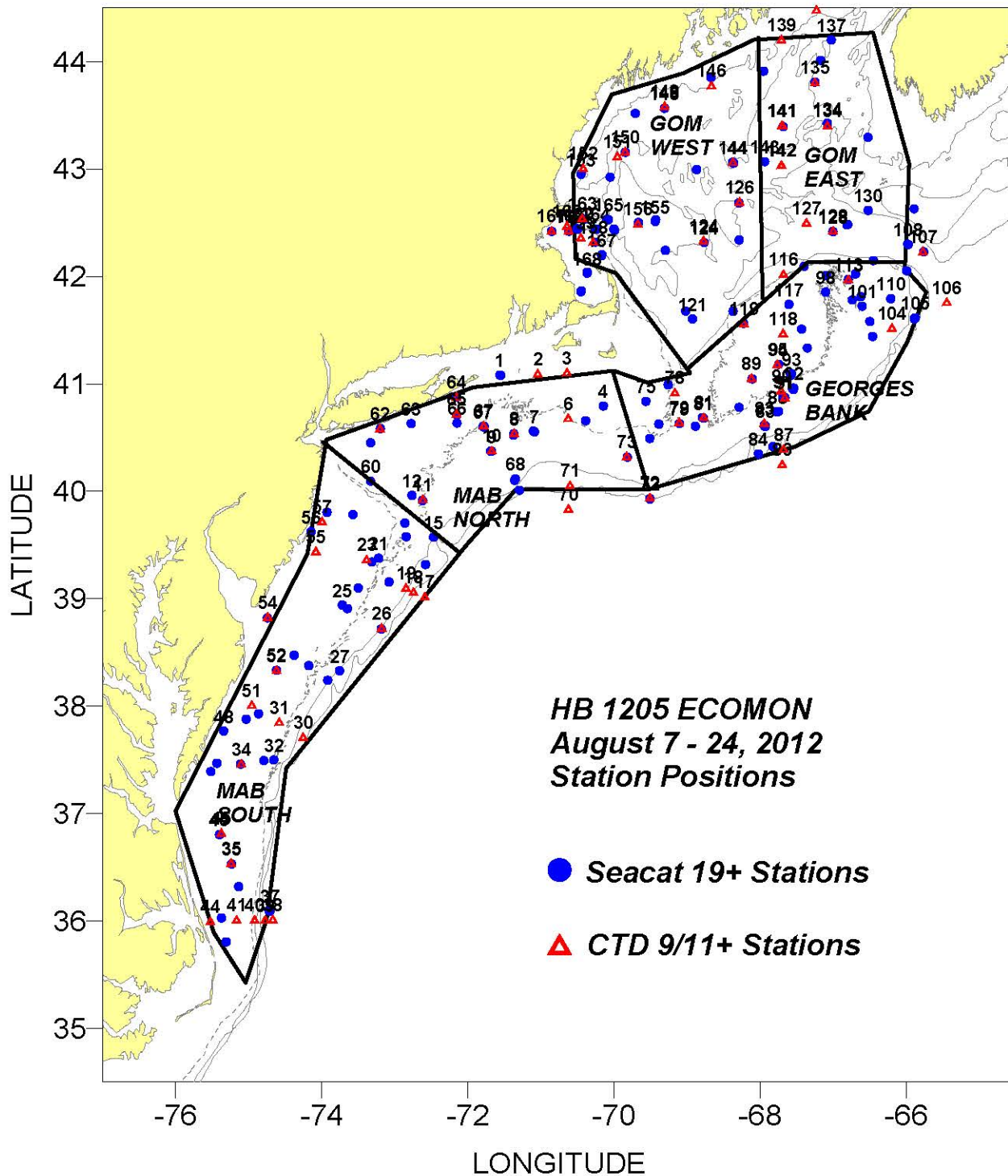
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/hb1205.dat>

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

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

choose: **2012 Cruises**
AUG_ECOMON_HB1205
CTD_REPORT_2012005HB.pdf

Revised: February 12, 2014



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
HB1205 ECOMON/NASA Survey
August 7 - 24, 2012**

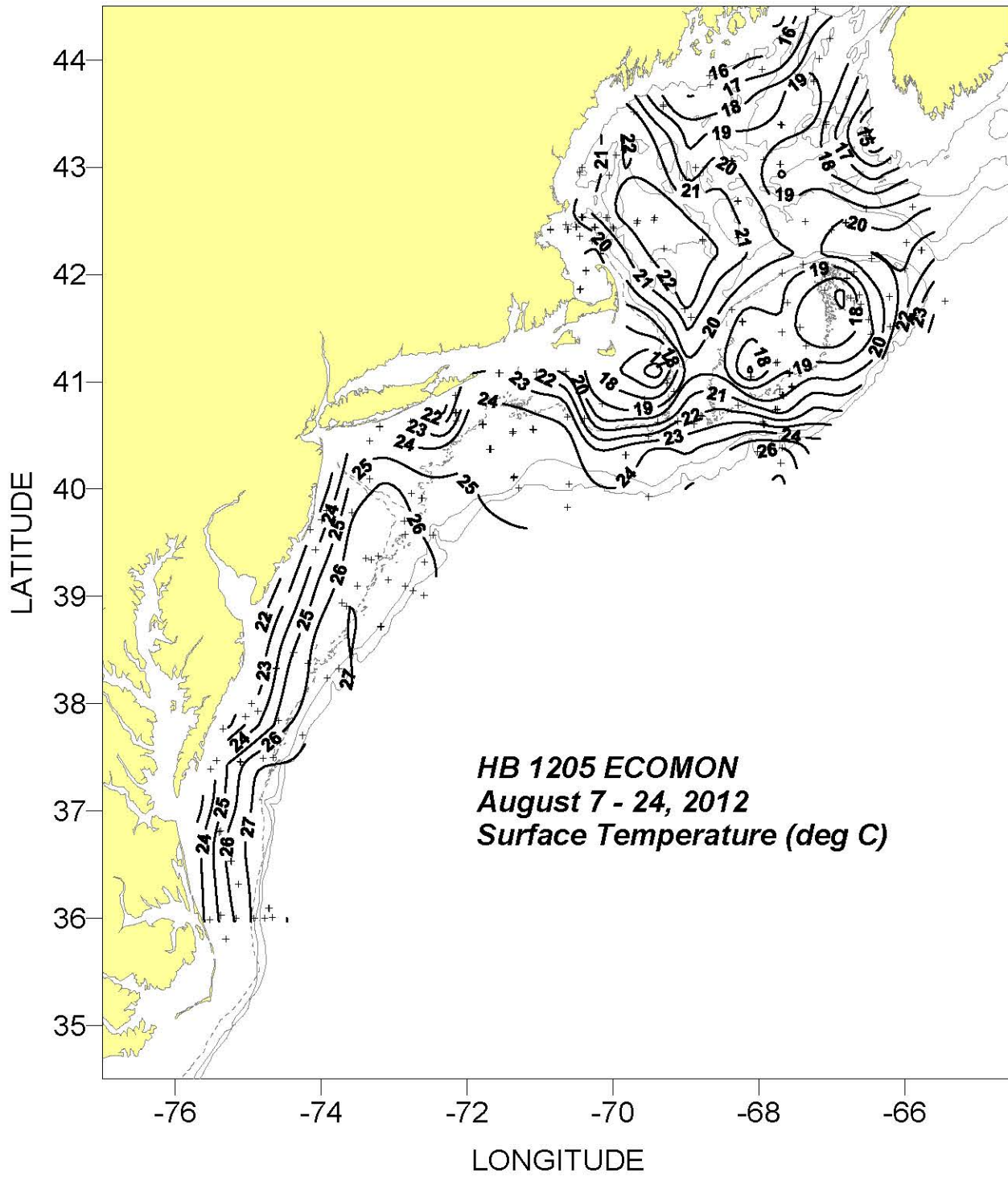
CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
Western Gulf of Maine														
hb1205	234	42	20.58	3.67	0.19	1.46	0	30	8.18	1.53	0.19	2.99	1	22
hb1205	234	42	31.91	-0.05	0.12	0.32	0	30	33.31	0.21	0.10	0.65	1	22
Eastern Gulf of Maine														
hb1205	233	17	18.61	4.59	0.21	1.79	0	11	10.29	1.85	0.26	1.67	0	22
hb1205	233	17	32.61	0.22	0.17	0.41	0	11	34.40	0.38	0.15	0.47	0	22
Georges Bank														
hb1205	229	56	20.16	3.93	0.14	2.35	1	49	13.29	1.31	0.15	2.17	1	22
hb1205	229	56	32.57	-0.14	0.08	0.71	1	49	32.82	-0.07	0.09	0.45	1	22
MAB North														
hb1205	224	44	23.49	3.35	0.21	1.53	0	40	11.50	1.72	0.23	1.36	0	22
hb1205	224	44	32.01	-0.35	0.13	0.59	0	40	33.12	-0.13	0.14	0.37	0	22
MAB South														
hb1205	224	44	25.50	1.41	0.20	2.09	0	41	12.67	0.88	0.22	2.84	0	22
hb1205	224	44	31.95	0.00	0.15	1.12	0	41	33.37	0.29	0.13	0.79	0	22

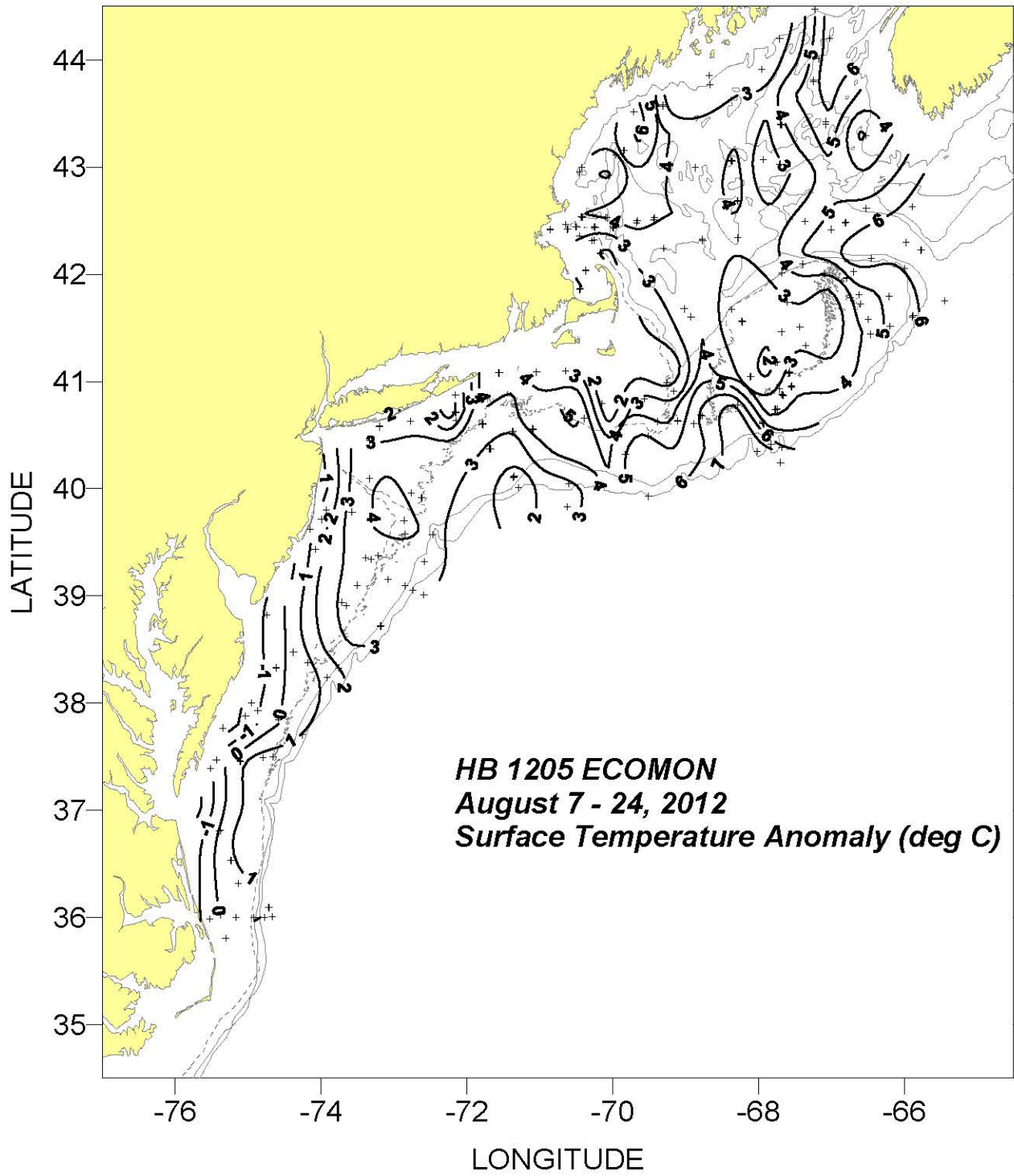
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

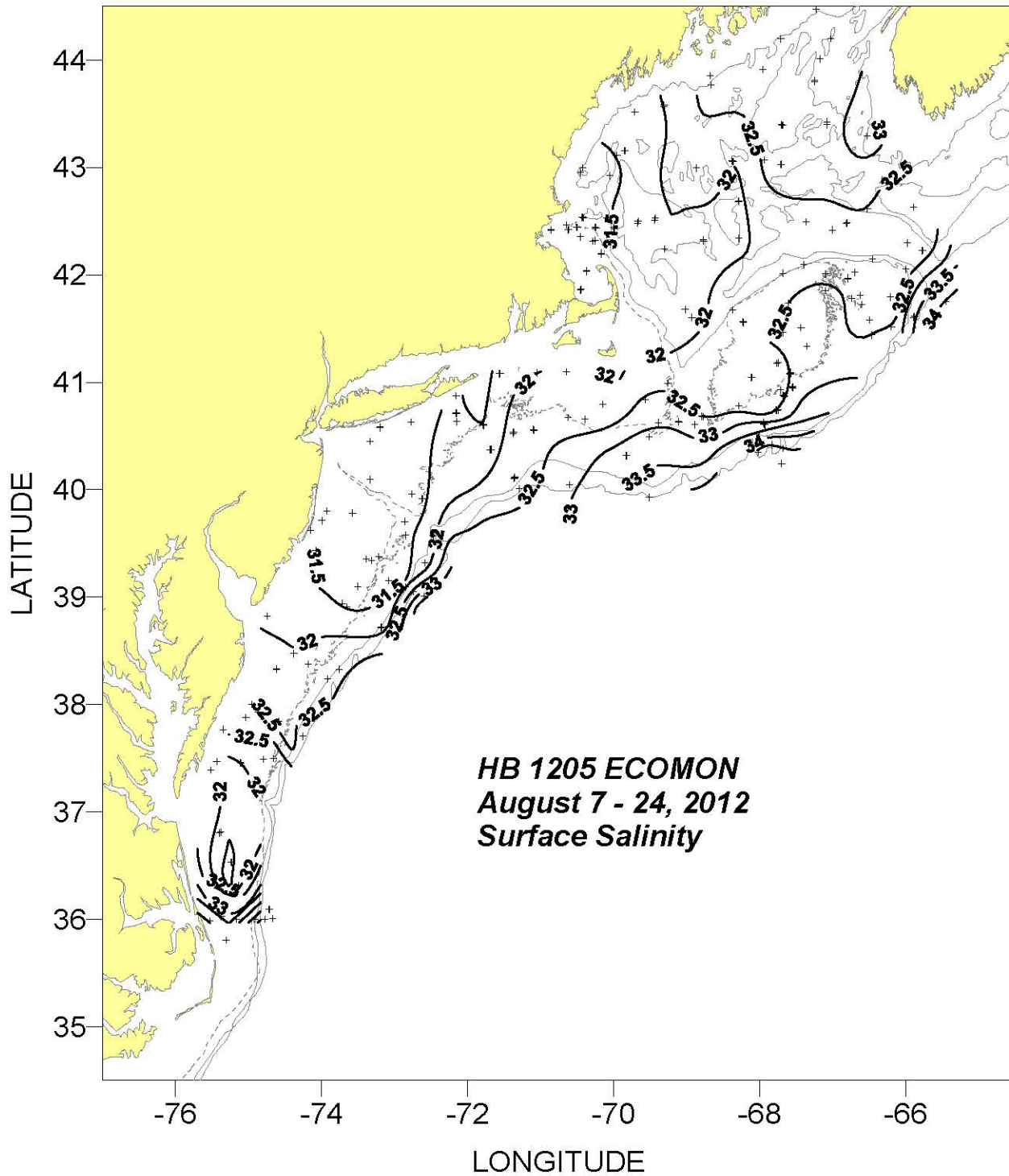
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

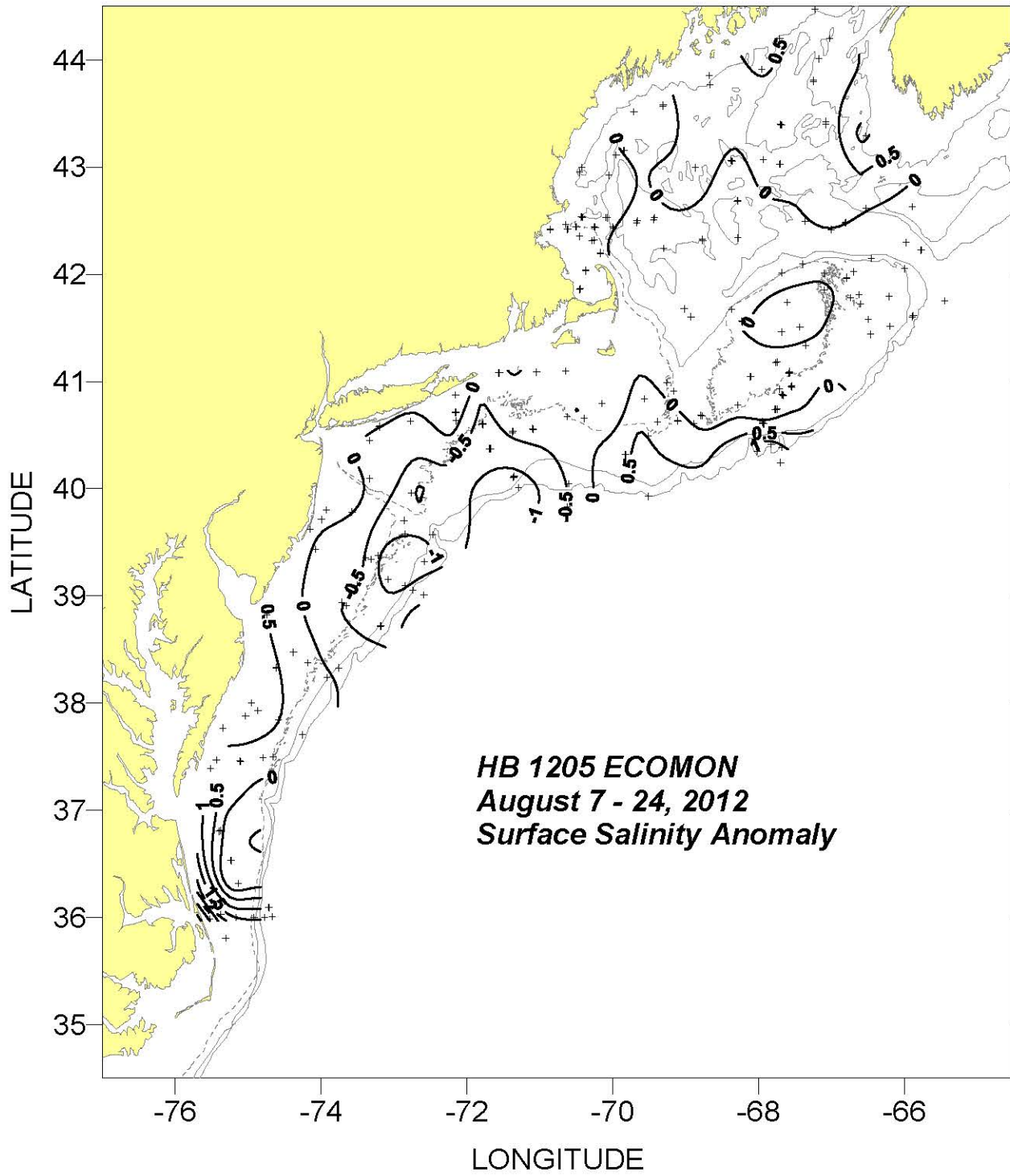
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

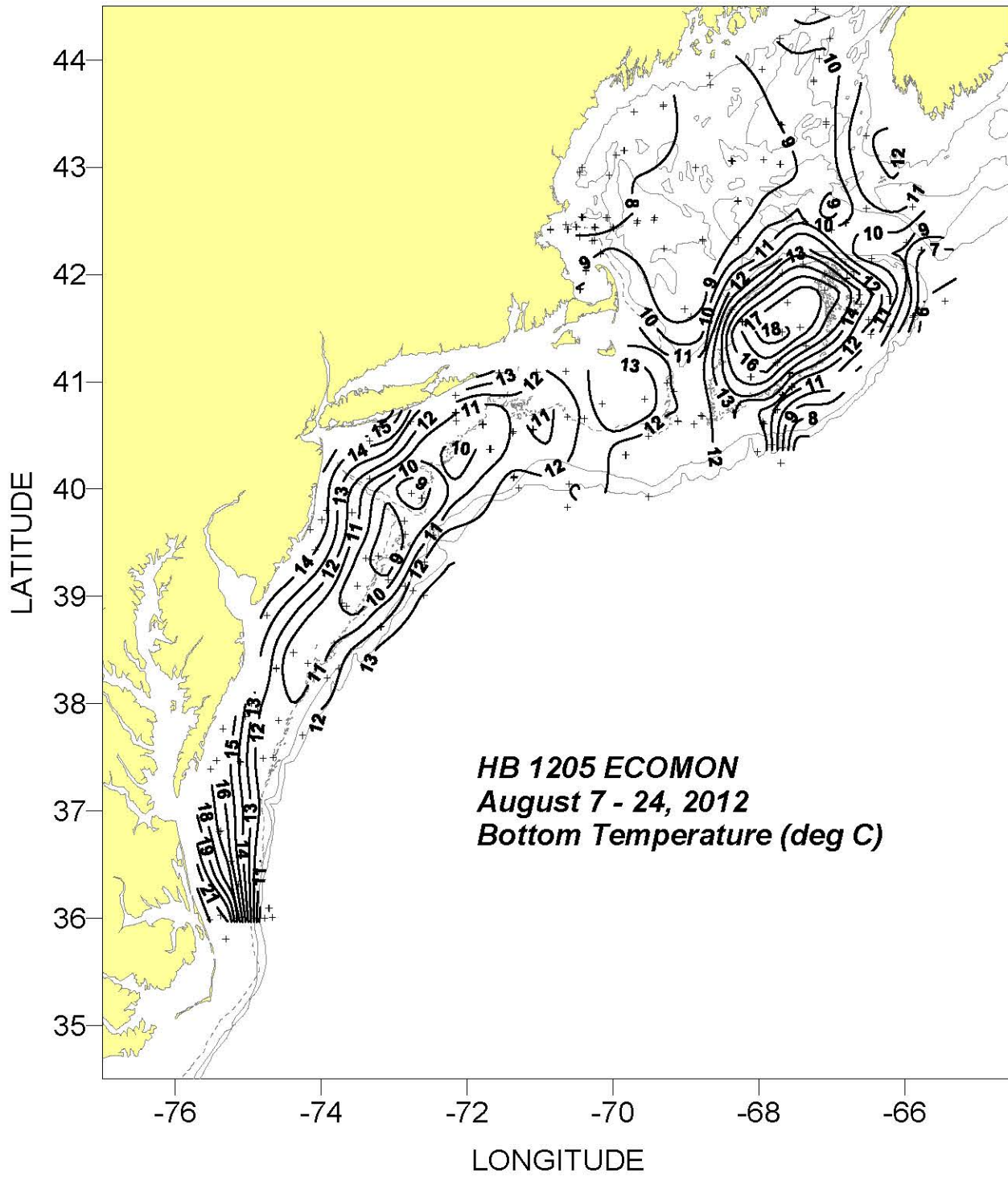
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

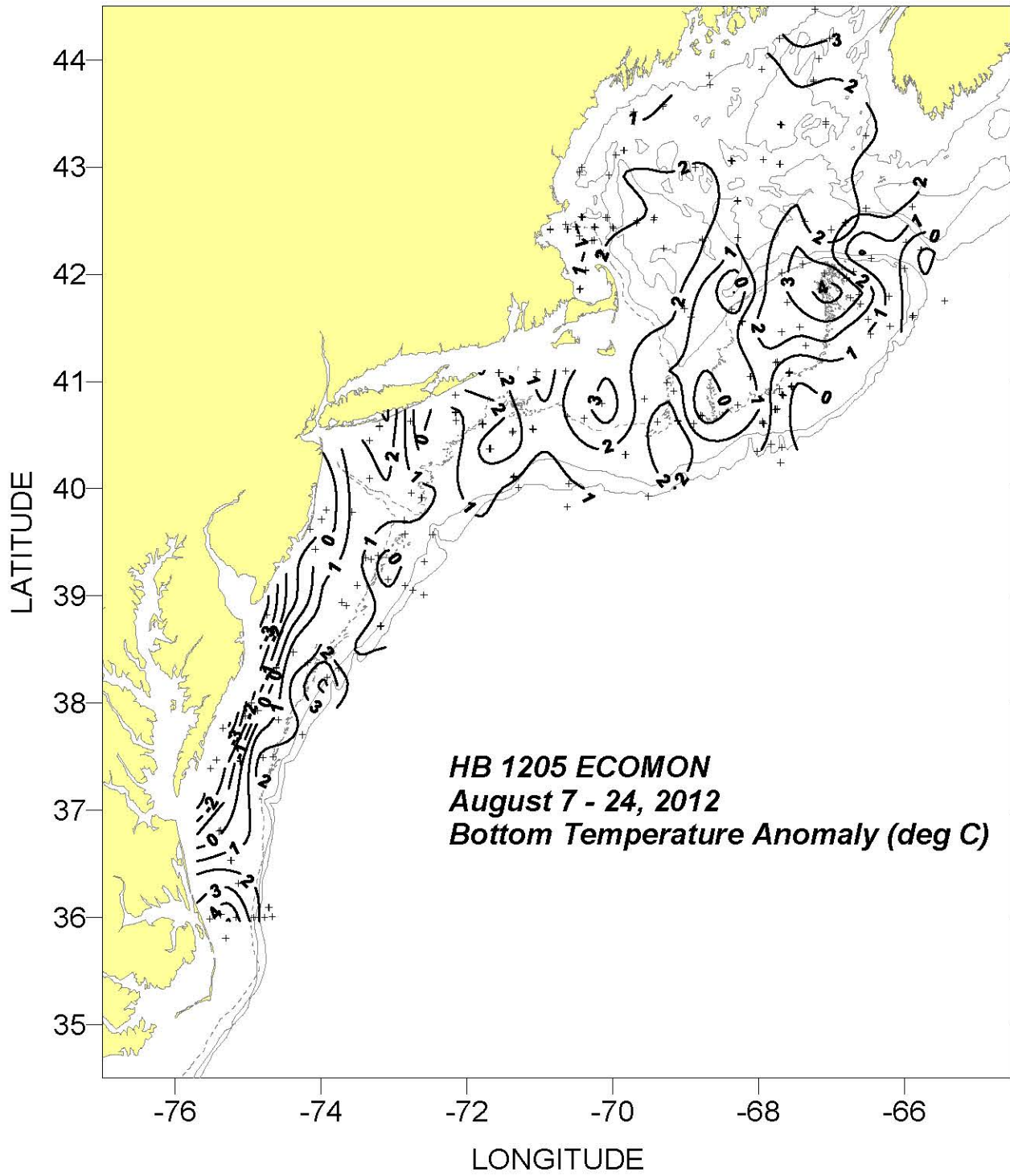


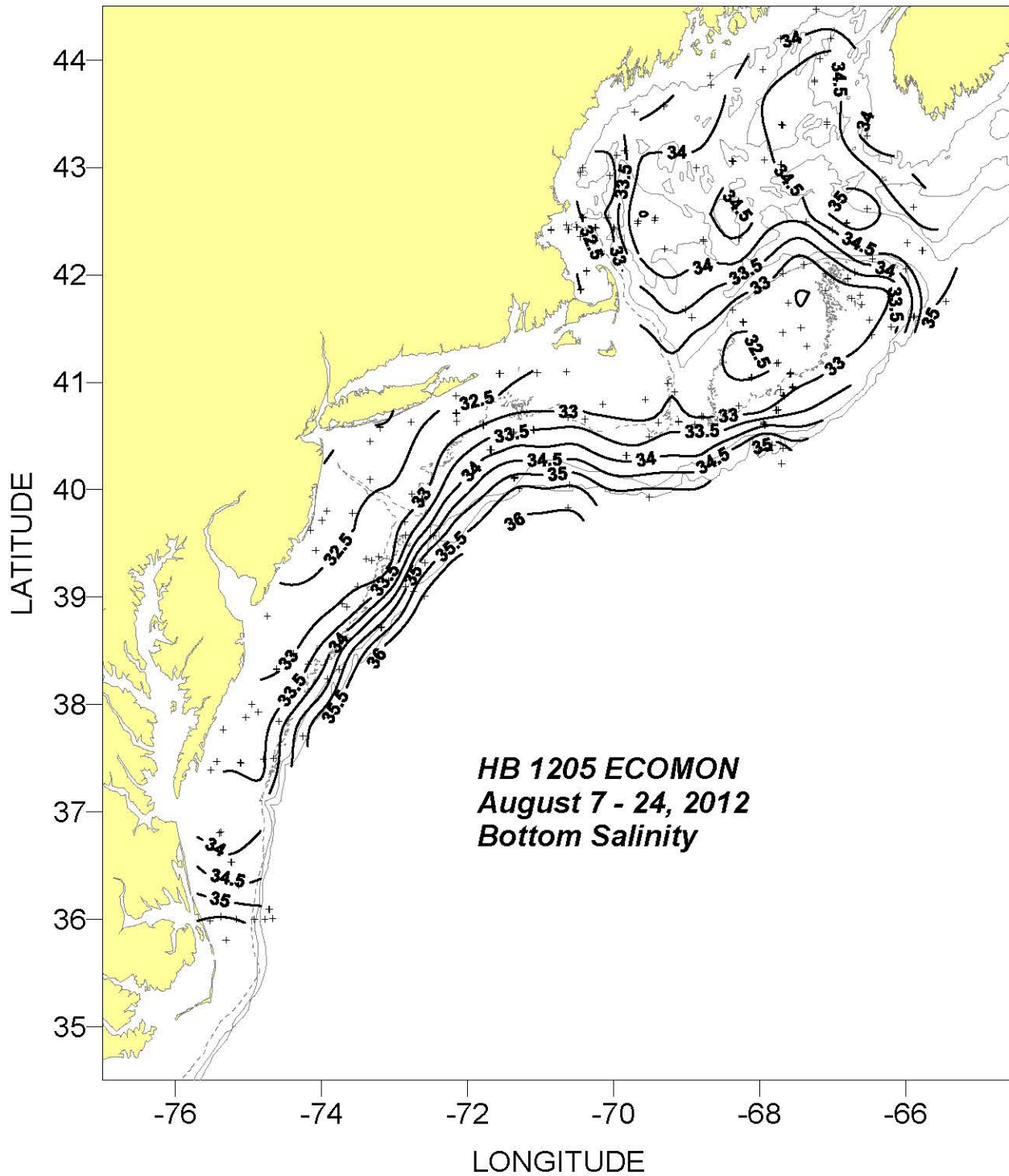


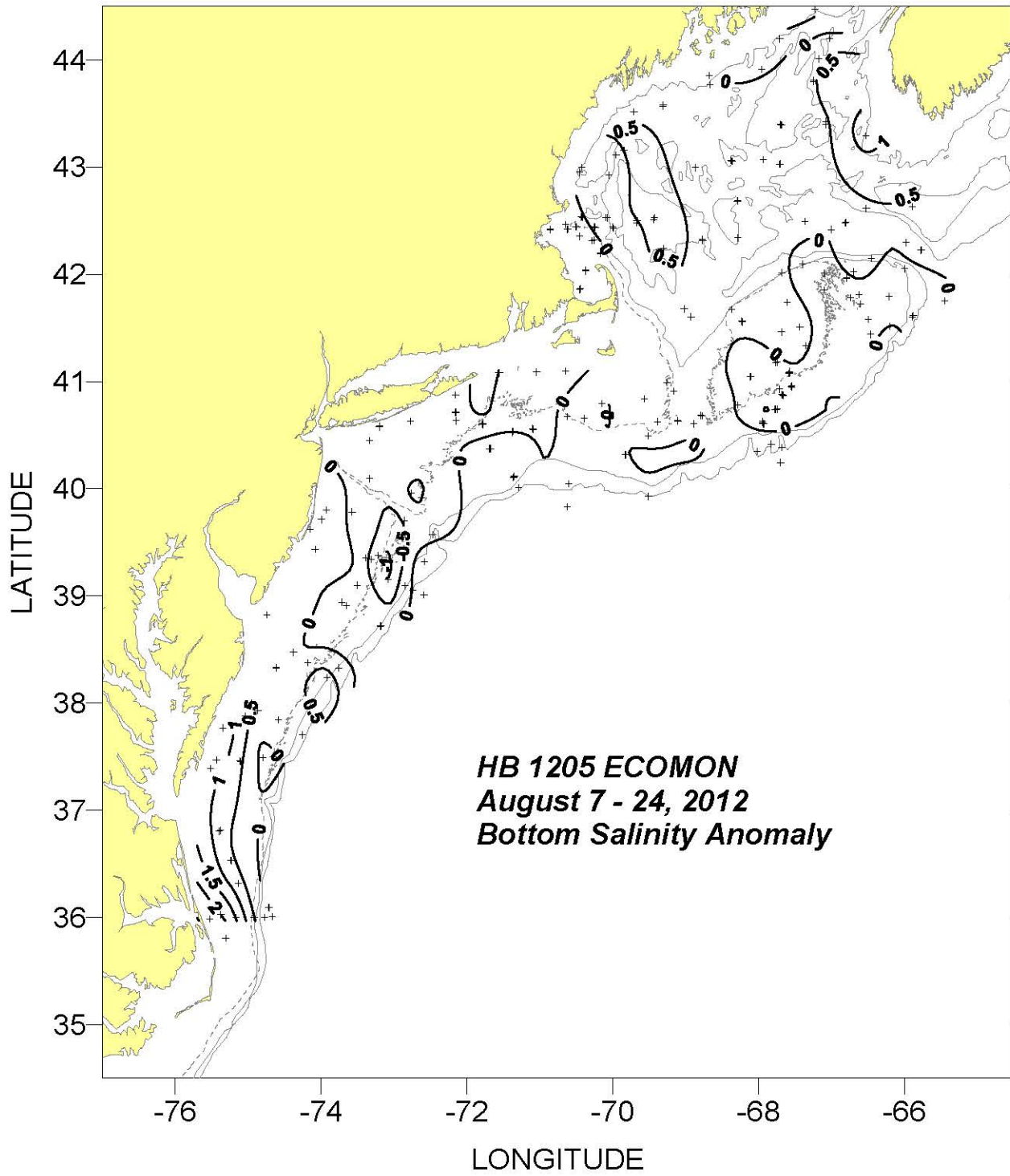












HB1205 ECOMON/NASA

Aug. 7 - 24, 2012

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
1	1	4104.9	7133.7	7	8	2012	19:22	30	23.19	31.73	15.43	32.07	7	B
2	1	4104.9	7133.1	7	8	2012	19:38	27	23.39	31.72	14.40	32.20	5	B
3	1	4104.8	7133.0	7	8	2012	20:02	28	22.83	31.77	15.48	32.06	10	B
1	2	4105.3	7102.5	7	8	2012	22:52	39	21.81	31.96	11.92	32.64	6	W
2	3	4105.9	7038.5	8	8	2012	0:55	45	20.67	32.21	12.58	32.63	6	W
4	4	4047.7	7008.8	8	8	2012	3:52	39	17.14	31.88	14.39	32.79	2	B
5	5	4039.4	7023.3	8	8	2012	5:22	57	23.41	32.17	11.89	33.03	4	B
3	6	4040.4	7037.6	8	8	2012	6:46	62	24.05	32.31	11.25	33.26	3	W
6	7	4033.2	7105.3	8	8	2012	8:58	75	24.70	32.29	9.64	33.10	5	B
7	7	4033.4	7105.7	8	8	2012	9:18	74	24.68	32.25	9.47	33.04	4	B
8	7	4033.6	7106.1	8	8	2012	9:43	74	24.69	32.30	9.43	33.04	7	B
4	8	4032.1	7121.9	8	8	2012	11:13	70	24.28	32.39	9.95	33.44	6	W
9	8	4031.4	7122.5	8	8	2012	12:37	71	24.17	32.38	11.09	33.60	7	B
10	8	4032.1	7122.2	8	8	2012	13:03	70	24.36	32.40	10.86	33.52	7	B
11	8	4031.5	7122.3	8	8	2012	13:30	71	23.18	32.33	9.91	33.39	7	B
12	9	4022.4	7141.3	8	8	2012	15:19	82	24.26	31.73	10.60	33.98	6	B
13	9	4022.4	7140.6	8	8	2012	15:40	83	24.19	31.74	10.31	33.86	8	B
14	9	4022.4	7141.2	8	8	2012	16:10	83	24.19	31.72	10.48	33.86	10	B
5	10	4022.3	7140.3	8	8	2012	16:40	83	24.08	31.73	10.40	33.89	7	W
6	11	3955.0	7237.0	8	8	2012	22:43	59	25.77	31.34	7.92	32.70	8	W
15	11	3954.8	7237.3	8	8	2012	22:58	58	25.84	31.36	7.93	32.69	5	B
16	12	3957.7	7245.9	8	8	2012	23:51	58	25.97	31.33	8.41	32.64	5	B
17	13	3942.2	7251.7	9	8	2012	1:25	73	26.15	31.26	8.00	32.84	4	B
18	14	3934.6	7250.6	9	8	2012	2:22	65	26.19	31.30	8.17	32.87	5	B
19	15	3934.3	7228.2	9	8	2012	4:03	104	25.73	32.18	12.40	34.87	4	B
20	16	3919.1	7234.8	9	8	2012	5:49	137	26.11	31.39	12.39	35.55	5	B
7	17	3900.7	7235.3	9	8	2012	7:56	998	26.05	34.33	5.63	35.01	435	W
8	18	3903.3	7244.6	9	8	2012	9:55	183	26.78	32.57	12.72	35.61	6	W
10	19	3905.6	7250.7	9	8	2012	11:04	98	26.34	31.23	12.25	34.70	4	W
21	20	3909.3	7304.7	9	8	2012	12:56	72	26.53	31.14	8.18	32.85	6	B
22	21	3922.6	7313.2	9	8	2012	14:31	59	26.52	31.23	8.73	32.81	4	B
23	22	3920.5	7318.8	9	8	2012	15:10	52	26.93	31.15	9.15	32.74	5	B
11	23	3921.4	7323.2	9	8	2012	16:10	50	26.53	31.13	9.76	32.69	5	W
24	24	3905.9	7330.0	9	8	2012	17:58	56	27.09	31.35	8.72	32.80	5	B
25	25	3856.4	7343.1	9	8	2012	19:31	49	26.92	31.39	9.07	32.86	2	B
26	25	3854.5	7338.9	9	8	2012	20:04	46	26.96	31.50	9.10	32.88	7	B

HB1205 ECOMON/NASA
Aug. 7 - 24, 2012

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
12	26	3843.2	7310.8	9	8	2012	22:43	115	25.86	31.85	13.19	35.65	8	W
27	26	3843.0	7311.1	9	8	2012	23:06	116	26.82	31.25	12.90	35.62	6	B
28	27	3819.7	7345.4	10	8	2012	2:19	110	26.93	32.97	12.95	35.36	5	B
29	28	3822.6	7410.7	10	8	2012	4:10	56	26.67	32.24	9.36	32.99	7	B
30	29	3814.4	7355.0	10	8	2012	5:41	78	26.33	32.04	11.47	34.25	6	B
13	30	3742.3	7415.2	10	8	2012	9:22	116	26.70	32.57	13.29	35.54	6	W
14	31	3750.6	7434.8	10	8	2012	11:36	55	26.67	31.97	10.37	33.27	4	W
31	32	3729.9	7439.4	10	8	2012	14:10	62	26.58	32.31	10.33	33.29	5	B
32	33	3729.5	7447.5	10	8	2012	15:00	57	26.77	32.54	10.89	33.25	5	B
33	34	3727.6	7506.7	10	8	2012	16:37	33	26.78	31.19	14.27	33.51	5	B
15	34	3727.3	7506.1	10	8	2012	17:02	32	26.80	31.21	14.20	33.50	5	W
16	35	3631.9	7514.3	10	8	2012	22:52	30	26.87	30.93	15.36	33.87	3	W
34	35	3631.8	7514.0	10	8	2012	23:04	31	26.89	30.92	15.36	33.89	4	B
35	36	3619.1	7508.2	11	8	2012	0:34	33	26.71	31.03	15.03	34.20	8	B
36	37	3605.7	7443.3	11	8	2012	3:28	954	27.55	34.78	6.02	35.02	452	W
37	37	3605.5	7442.5	11	8	2012	4:10	905	27.58	34.05	11.92	35.67	703	B
17	38	3600.4	7440.1	11	8	2012	6:10	1425	27.65	35.44	5.60	35.01	922	W
18	39	3600.0	7446.5	11	8	2012	9:04	444	27.42	35.48	6.43	35.04	1	W
19	40	3600.1	7455.1	11	8	2012	11:06	78	27.33	35.25	14.75	35.66	7	W
20	41	3600.1	7509.9	11	8	2012	12:48	31	26.26	32.24	20.66	35.56	6	W
38	42	3548.3	7518.5	11	8	2012	14:25	34	26.55	35.45	16.90	35.49	5	B
39	43	3601.6	7522.4	11	8	2012	15:55	29	24.45	33.81	23.53	35.83	6	B
21	44	3559.2	7531.4	11	8	2012	17:15	23	23.61	34.23	23.44	35.77	5	W
40	45	3648.2	7524.0	11	8	2012	21:37	26	25.41	31.94	17.67	33.89	7	B
22	45	3648.7	7522.5	11	8	2012	22:28	24	25.31	31.99	17.69	33.88	6	W
41	46	3723.4	7531.1	12	8	2012	2:07	20	21.66	32.51	16.54	33.17	7	B
42	47	3728.1	7526.1	12	8	2012	2:55	21	23.74	32.46	15.94	33.44	6	B
43	48	3746.0	7520.6	12	8	2012	5:07	17	21.52	32.78	15.97	33.44	2	B
44	49	3752.7	7502.0	12	8	2012	6:55	22	22.10	32.70	14.85	33.36	8	B
45	50	3755.7	7451.9	12	8	2012	8:00	30	22.99	32.59	11.71	33.14	8	B
23	51	3800.1	7457.4	12	8	2012	9:04	24	22.14	32.58	13.77	33.13	5	W
24	52	3819.6	7437.1	12	8	2012	11:34	40	24.39	32.19	11.36	33.01	4	W
46	52	3820.0	7437.0	12	8	2012	12:21	39	24.39	32.19	11.32	33.01	3	B
47	53	3828.4	7422.7	12	8	2012	13:55	46	25.13	32.03	10.31	32.90	4	B
25	54	3849.3	7444.4	12	8	2012	16:53	22	21.21	31.86	13.58	32.80	5	W
48	54	3849.3	7444.6	12	8	2012	17:13	22	21.91	31.84	13.63	32.79	6	B
26	55	3926.0	7404.8	12	8	2012	22:22	22	23.90	31.33	15.16	32.45	5	W

HB1205 ECOMON/NASA

Aug. 7 - 24, 2012

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
49	56	3937.3	7408.8	13	8	2012	1:02	17	21.36	31.63	15.66	32.01	3	B
27	57	3942.7	7359.7	13	8	2012	2:12	22	24.07	31.49	14.52	32.10	5	W
50	58	3948.2	7355.6	13	8	2012	3:02	25	22.43	31.43	13.86	32.28	8	B
51	59	3947.0	7334.4	13	8	2012	4:46	37	26.31	31.54	11.86	32.49	6	B
52	60	4005.7	7320.0	13	8	2012	7:11	42	26.12	31.49	9.95	32.55	4	B
53	61	4027.1	7319.9	13	8	2012	9:37	30	25.13	30.83	14.60	32.16	4	B
54	62	4035.0	7311.8	13	8	2012	10:58	23	22.24	31.28	17.76	31.81	7	B
28	62	4034.6	7312.0	13	8	2012	11:19	23	22.13	31.29	17.27	31.88	5	W
55	63	4037.8	7246.5	13	8	2012	13:43	35	22.97	31.26	12.84	32.47	6	B
29	64	4052.4	7209.2	13	8	2012	17:22	34	22.51	30.92	13.33	32.34	5	W
56	64	4052.6	7209.3	13	8	2012	17:36	34	22.59	30.93	13.45	32.32	6	B
30	65	4042.8	7209.3	13	8	2012	19:10	49	18.34	31.80	10.46	32.66	7	W
57	65	4042.7	7209.1	13	8	2012	19:31	49	23.82	31.39	10.45	32.66	6	B
58	66	4038.1	7208.9	13	8	2012	20:12	51	25.09	31.67	10.17	32.68	4	B
31	67	4036.3	7146.9	13	8	2012	22:23	63	24.41	31.45	8.73	32.79	6	W
59	67	4036.3	7146.6	13	8	2012	22:43	63	24.38	31.44	8.74	32.79	6	B
60	67	4035.9	7146.9	13	8	2012	23:01	65	24.32	31.41	8.72	32.79	4	B
61	67	4036.1	7147.5	13	8	2012	23:19	64	24.20	31.43	8.72	32.79	5	B
62	68	4006.8	7121.2	14	8	2012	2:49	97	24.39	32.16	13.15	35.24	5	B
63	68	4006.2	7121.6	14	8	2012	3:10	97	24.38	32.21	13.38	35.34	5	B
64	68	4006.9	7121.0	14	8	2012	3:43	97	24.35	32.19	13.10	35.22	4	B
65	69	4000.6	7117.6	14	8	2012	4:54	208	24.42	32.27	12.12	35.53	10	B
32	70	3949.8	7037.3	14	8	2012	8:31	997	24.50	32.63	5.91	35.01	491	W
33	71	4002.9	7036.1	14	8	2012	11:03	154	24.56	33.05	13.39	35.64	8	W
34	72	3956.0	6930.4	14	8	2012	18:52	233	23.71	33.82	12.49	35.47	83	W
66	72	3955.9	6930.5	14	8	2012	19:22	247	23.75	33.82	11.34	35.41	5	W
67	72	3955.7	6930.5	14	8	2012	19:45	308	24.19	33.77	12.24	35.46	108	B
35	73	4019.1	6949.5	14	8	2012	23:07	82	22.97	33.49	11.05	33.58	6	W
68	73	4019.1	6949.1	14	8	2012	23:27	82	24.33	33.35	10.90	33.53	7	B
69	74	4029.5	6930.6	15	8	2012	1:15	65	24.08	33.12	11.06	33.38	6	B
70	75	4050.3	6933.8	15	8	2012	3:31	39	17.72	32.55	14.64	32.67	6	B
71	76	4037.5	6923.1	15	8	2012	5:10	50	20.58	32.71	13.04	32.84	6	B
72	77	4059.5	6915.5	15	8	2012	8:22	63	14.28	32.28	12.86	32.76	4	B
36	78	4054.7	6909.9	15	8	2012	9:43	66	20.32	32.58	12.17	33.01	4	W
37	79	4038.1	6906.4	15	8	2012	11:49	82	22.19	32.97	11.13	33.39	6	W
73	79	4037.9	6906.3	15	8	2012	12:52	82	23.19	33.03	11.15	33.39	4	B
74	80	4036.4	6853.2	15	8	2012	14:04	66	21.88	32.42	11.25	32.99	3	B

HB1205 ECOMON/NASA

Aug. 7 - 24, 2012

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
75	81	4041.1	6847.3	15	8	2012	14:55	68	22.34	32.39	11.51	32.87	4	B
76	81	4040.9	6846.5	15	8	2012	15:11	66	22.31	32.35	11.56	32.86	4	B
77	81	4041.1	6847.3	15	8	2012	15:38	67	22.66	32.45	11.50	32.87	7	B
38	81	4040.9	6846.3	15	8	2012	16:15	65	22.34	32.42	11.57	32.86	8	W
78	82	4046.9	6817.2	15	8	2012	18:32	59	21.72	32.32	13.22	32.61	7	B
79	83	4036.3	6755.6	15	8	2012	20:34	91	22.54	32.36	10.75	33.72	8	B
80	83	4036.3	6756.3	15	8	2012	20:58	90	23.17	32.33	11.01	33.90	7	B
81	83	4037.0	6756.5	15	8	2012	21:16	90	22.69	32.40	10.73	33.68	10	B
39	83	4037.6	6756.5	15	8	2012	21:58	90	23.03	32.37	10.67	33.65	6	W
82	84	4020.9	6801.3	16	8	2012	0:07	150	26.49	35.01	13.90	35.77	6	B
83	85	4025.0	6749.4	16	8	2012	1:28	165	25.49	34.55	11.31	35.42	6	B
40	86	4014.6	6741.8	16	8	2012	3:10	1077	27.46	35.45	5.89	35.03	564	W
41	87	4023.1	6740.7	16	8	2012	4:56	463	26.18	34.80	6.01	35.05	39	W
84	88	4044.6	6744.8	16	8	2012	7:45	68	20.29	32.43	12.05	32.72	6	B
85	88	4044.4	6745.6	16	8	2012	8:01	70	20.14	32.43	11.92	32.74	6	B
86	88	4044.4	6746.6	16	8	2012	8:21	72	20.04	32.45	11.85	32.75	6	B
87	89	4102.8	6806.5	16	8	2012	11:31	50	16.77	32.48	16.42	32.49	6	B
42	89	4102.7	6807.0	16	8	2012	11:49	49	16.65	32.48	16.42	32.49	14	W
43	90	4055.8	6742.6	16	8	2012	14:25	67	20.12	32.44	11.23	32.79	5	W
88	91	4052.7	6740.9	16	8	2012	15:07	70	20.00	32.45	10.21	32.93	4	B
89	91	4052.5	6740.2	16	8	2012	15:25	72	20.09	32.43	10.06	32.96	7	B
90	91	4052.3	6739.6	16	8	2012	15:43	72	19.01	32.45	10.02	32.97	10	B
44	91	4052.0	6739.6	16	8	2012	16:25	72	20.09	32.43	9.99	32.98	6	W
91	92	4057.7	6732.5	16	8	2012	17:36	71	20.67	32.41	10.45	32.83	6	B
92	92	4056.8	6732.6	16	8	2012	17:55	72	21.39	32.44	10.39	32.84	7	B
93	92	4057.2	6733.2	16	8	2012	18:28	72	20.13	32.42	10.45	32.83	10	B
94	93	4105.6	6734.3	16	8	2012	19:46	60	20.26	32.48	13.89	32.62	7	B
95	93	4104.9	6734.7	16	8	2012	20:06	61	20.27	32.48	13.83	32.63	7	B
96	93	4104.7	6734.8	16	8	2012	20:23	61	20.11	32.52	13.85	32.63	9	B
97	94	4110.9	6744.7	16	8	2012	21:36	47	17.72	32.49	17.09	32.50	8	B
45	95	4110.6	6745.8	16	8	2012	22:21	46	17.70	32.48	17.00	32.50	6	W
98	96	4120.1	6721.2	17	8	2012	0:37	49	17.32	32.55	15.37	32.59	7	B
99	97	4130.6	6725.9	17	8	2012	1:47	42	17.89	32.54	17.91	32.54	7	B
100	98	4151.3	6706.1	17	8	2012	4:13	59	17.03	32.57	17.04	32.57	4	B
101	99	4146.9	6644.2	17	8	2012	5:52	65	16.14	32.60	15.78	32.61	9	B
102	100	4148.7	6637.2	17	8	2012	6:40	74	18.63	32.45	14.78	32.66	4	B
103	101	4143.4	6636.2	17	8	2012	7:18	68	18.40	32.42	14.48	32.67	4	B

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Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
104	102	4134.8	6629.8	17	8	2012	8:18	85	19.41	32.36	11.95	32.77	6	B
105	103	4126.5	6627.6	17	8	2012	9:19	95	18.68	32.26	10.50	32.96	4	B
46	104	4130.9	6611.6	17	8	2012	11:04	94	19.95	32.37	9.13	33.15	4	W
106	105	4136.9	6552.5	17	8	2012	13:25	388	24.13	33.81	10.56	35.33	186	B
107	105	4136.3	6553.4	17	8	2012	14:07	482	24.18	33.84	5.86	35.01	5	W
47	106	4145.2	6526.6	17	8	2012	16:43	2017	24.01	34.22	15.27	35.88	1916	W
48	106	4145.3	6526.4	17	8	2012	17:25	2024	24.08	34.23	6.01	35.01	1519	W
108	107	4213.8	6545.7	17	8	2012	21:30	228	21.14	32.21	8.51	35.17	28	B
49	107	4213.6	6546.2	17	8	2012	22:34	226	21.05	32.22	6.84	35.07	5	W
109	108	4217.9	6558.4	17	8	2012	23:55	243	21.05	32.30	8.44	35.15	7	W
110	108	4218.0	6558.7	18	8	2012	0:16	245	20.71	32.23	8.39	35.15	45	B
111	109	4203.2	6559.6	18	8	2012	2:19	160	20.86	32.17	7.99	33.64	4	B
112	110	4147.6	6612.7	18	8	2012	4:34	88	19.42	32.14	11.63	32.74	4	B
113	111	4208.9	6627.0	18	8	2012	7:52	159	21.15	32.15	8.65	35.00	10	B
114	112	4201.4	6641.7	18	8	2012	9:49	72	21.02	31.96	10.76	32.81	5	B
115	113	4158.3	6647.5	18	8	2012	10:40	67	18.30	32.34	14.62	32.63	5	B
50	113	4157.9	6647.5	18	8	2012	11:03	68	18.21	32.35	14.86	32.62	5	W
116	114	4200.6	6705.6	18	8	2012	12:52	58	19.27	32.28	16.07	32.56	5	B
117	115	4205.7	6723.8	18	8	2012	14:22	66	19.38	32.39	15.93	32.59	5	B
51	116	4200.9	6740.7	18	8	2012	16:32	69	20.17	32.34	12.58	32.76	5	W
118	117	4144.4	6736.3	18	8	2012	18:19	42	18.43	32.55	18.39	32.55	9	B
52	118	4127.8	6741.1	18	8	2012	19:58	41	18.90	32.53	18.90	32.53	6	W
53	119	4133.3	6813.2	18	8	2012	23:07	41	18.79	32.52	18.46	32.52	5	W
119	119	4133.8	6813.6	18	8	2012	23:22	40	18.80	32.53	18.61	32.52	5	B
120	120	4140.5	6822.1	19	8	2012	0:28	53	18.31	32.59	13.57	32.67	4	B
121	121	4136.3	6855.5	19	8	2012	3:04	117	22.62	31.74	6.82	33.29	5	B
122	122	4140.7	6901.1	19	8	2012	4:03	167	22.60	31.70	7.39	33.67	3	B
123	123	4214.6	6917.8	19	8	2012	7:55	217	22.71	31.71	8.29	34.39	12	B
124	124	4219.0	6846.0	19	8	2012	10:40	191	22.79	31.70	8.11	34.22	9	B
54	124	4219.7	6846.4	19	8	2012	11:13	208	22.78	31.69	7.78	33.88	52	W
125	125	4220.4	6817.2	19	8	2012	14:07	206	21.89	31.78	8.45	34.80	6	B
55	126	4241.2	6816.8	19	8	2012	16:57	192	20.48	31.93	8.72	34.31	40	W
126	126	4241.1	6817.3	19	8	2012	17:23	189	20.46	31.93	8.55	34.84	5	B
56	127	4229.6	6721.9	19	8	2012	21:53	326	19.48	32.34	7.90	34.06	173	W
57	128	4225.0	6700.1	20	8	2012	0:04	372	20.99	32.23	8.30	35.06	8	W
127	128	4225.1	6700.2	20	8	2012	1:01	372	20.93	32.27	8.31	35.06	169	B
128	129	4229.1	6648.0	20	8	2012	2:37	322	20.16	32.40	8.12	35.06	8	W

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Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
129	129	4228.9	6648.6	20	8	2012	3:01	317	20.24	32.35	8.21	35.07	115	B
130	130	4236.9	6631.3	20	8	2012	5:00	177	19.15	32.50	11.83	35.48	5	B
131	131	4237.8	6553.5	20	8	2012	7:54	87	19.66	31.71	11.47	33.79	5	B
132	133	4317.7	6631.4	20	8	2012	13:45	71	13.18	33.36	12.34	33.69	6	B
59	134	4323.9	6704.7	20	8	2012	16:34	234	18.22	32.75	9.18	34.83	83	W
133	134	4325.6	6704.7	20	8	2012	17:16	234	18.39	32.79	9.23	34.90	11	B
134	135	4348.6	6714.9	20	8	2012	20:34	184	20.66	32.52	9.47	34.77	6	B
60	135	4348.0	6714.9	20	8	2012	21:37	181	20.06	32.50	9.63	34.80	30	W
135	136	4400.7	6710.1	20	8	2012	23:34	143	18.49	32.81	9.90	34.77	6	B
136	137	4412.1	6701.5	21	8	2012	1:06	161	19.58	32.78	9.68	34.42	6	B
61	138	4428.5	6713.6	21	8	2012	3:13	113	12.35	32.95	12.14	33.13	5	W
62	139	4411.9	6742.4	21	8	2012	6:07	184	14.36	33.11	9.80	34.16	22	W
137	140	4354.7	6757.1	21	8	2012	8:19	175	17.07	32.89	8.98	34.33	8	B
63	141	4324.0	6742.0	21	8	2012	11:41	248	19.86	32.53	9.41	34.83	5	W
64	141	4323.8	6741.4	21	8	2012	12:43	246	19.87	32.53	10.60	33.49	185	W
138	141	4323.7	6741.1	21	8	2012	12:58	246	19.99	32.55	9.22	34.73	44	B
65	142	4301.7	6742.6	21	8	2012	16:58	178	17.46	32.73	9.71	33.54	117	W
66	142	4301.8	6742.3	21	8	2012	17:07	187	16.47	32.80	8.70	34.50	6	W
139	143	4304.2	6756.1	21	8	2012	18:49	183	18.01	32.71	8.36	34.26	7	B
67	144	4303.4	6822.2	21	8	2012	21:34	209	21.35	31.85	8.47	34.12	57	W
140	144	4303.3	6822.0	21	8	2012	22:02	208	21.88	31.72	8.49	34.24	9	B
141	144	4303.4	6821.7	21	8	2012	22:49	205	21.45	31.87	8.48	34.24	8	B
142	144	4303.8	6822.5	21	8	2012	23:30	214	21.50	31.79	8.46	34.24	28	B
143	145	4259.7	6852.1	22	8	2012	2:09	162	18.70	32.53	8.30	33.99	7	B
68	146	4346.2	6839.9	22	8	2012	7:00	118	16.34	32.78	11.19	33.54	16	W
144	147	4351.3	6840.3	22	8	2012	8:00	94	15.02	32.49	11.59	33.18	12	B
145	148	4334.0	6918.5	22	8	2012	11:25	178	18.98	31.80	7.10	33.17	35	B
69	148	4334.7	6918.4	22	8	2012	11:58	193	17.69	32.04	7.14	33.18	41	W
146	149	4331.1	6942.5	22	8	2012	14:28	126	21.71	31.63	7.26	33.10	4	B
70	150	4309.4	6950.8	22	8	2012	17:43	183	21.78	31.53	7.71	33.89	31	W
147	150	4309.4	6950.7	22	8	2012	18:10	182	22.78	31.57	8.09	34.15	6	B
71	151	4306.8	6957.1	22	8	2012	19:57	164	20.98	31.82	10.07	33.04	112	W
72	152	4300.0	7025.3	22	8	2012	22:40	106	20.68	31.20	7.09	32.71	6	W
148	153	4257.1	7027.1	22	8	2012	23:23	107	21.22	31.25	6.96	32.71	7	B
149	154	4255.5	7003.1	23	8	2012	1:13	90	20.60	31.34	7.71	32.69	6	B
150	155	4231.8	6925.7	23	8	2012	4:41	259	22.77	32.01	8.16	34.34	57	B
151	155	4230.7	6926.1	23	8	2012	5:22	267	22.80	32.01	8.40	34.56	4	W

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Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest Observed Temp (deg C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
152	156	4230.1	6939.9	23	8	2012	6:41	262	22.80	31.41	8.37	34.39	60	B
73	156	4229.0	6940.4	23	8	2012	7:24	268	22.80	31.41	8.48	34.59	6	W
153	157	4219.2	7015.2	23	8	2012	10:38	39	18.66	31.53	8.92	32.18	7	B
74	158	4218.9	7016.9	23	8	2012	11:10	35	18.11	31.50	9.25	32.10	4	W
75	159	4221.3	7027.2	23	8	2012	12:51	80	17.67	31.51	7.27	32.28	8	W
76	160	4225.2	7037.1	23	8	2012	14:01	86	19.61	31.27	7.78	32.31	4	W
154	160	4225.3	7037.0	23	8	2012	14:22	87	19.91	31.28	7.80	32.31	5	B
77	161	4225.0	7051.2	23	8	2012	17:10	33	18.69	31.15	9.86	31.95	6	W
155	161	4225.2	7051.2	23	8	2012	17:22	33	20.01	31.08	10.08	31.89	9	B
78	162	4227.9	7038.5	23	8	2012	19:19	80	18.45	31.16	8.04	32.27	8	W
156	162	4226.7	7030.3	23	8	2012	20:17	60	21.45	30.92	7.72	32.29	5	B
157	162	4226.6	7029.5	23	8	2012	20:34	59	21.14	30.90	7.61	32.29	11	B
79	163	4232.1	7026.1	23	8	2012	22:28	104	21.05	31.36	7.68	32.49	7	W
158	163	4232.3	7025.5	23	8	2012	22:49	116	20.66	31.43	7.52	32.46	7	B
159	163	4231.9	7024.7	23	8	2012	23:12	121	20.98	31.45	7.54	32.46	12	B
160	164	4226.6	7015.2	24	8	2012	0:16	69	20.40	31.49	7.88	32.43	6	B
161	164	4226.4	7014.3	24	8	2012	0:30	70	20.43	31.51	7.96	32.41	20	B
162	165	4231.9	7005.8	24	8	2012	1:27	106	21.76	31.50	7.13	32.90	6	B
163	165	4231.7	7004.5	24	8	2012	2:05	119	22.03	31.50	6.90	32.98	10	B
164	166	4226.5	7000.1	24	8	2012	2:58	199	21.60	31.50	7.81	33.95	8	B
165	166	4225.8	6959.4	24	8	2012	3:30	194	21.37	31.51	7.84	33.96	8	B
166	167	4212.1	7009.9	24	8	2012	5:40	43	18.79	31.49	9.60	32.09	6	B
167	167	4211.7	7010.1	24	8	2012	5:52	41	18.45	31.50	9.56	32.09	6	B
168	168	4202.4	7022.0	24	8	2012	7:33	57	21.11	31.35	8.36	32.11	6	B
169	168	4201.8	7022.1	24	8	2012	7:49	56	21.08	31.36	8.39	32.11	5	B
170	169	4152.0	7026.8	24	8	2012	9:23	31	18.06	31.44	9.69	31.94	5	B
171	169	4151.5	7027.2	24	8	2012	9:38	29	18.14	31.44	10.10	31.91	6	B

data in bold are from 9/11+ CTD (s/n 420)

Deployment codes: B=bongo cast; W=water sampling cast; and V=vertical cast