

Oceanography Branch CTD Data Report
CTD_REPORT_2016008GU

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DATE: November 18, 2016

CTD_REPORT_2016008GU.pdf

Oceans and Climate Branch CTD Data Report

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

GU 1608
2016 Spring ECOMON Survey
Data Coverage: May 21 – June 20, 2016
Mid Atlantic Bight, Georges Bank, and Gulf of Maine

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2016 ECOMON Survey aboard the NOAA Ship *Gordon Gunter*. All data was obtained with a Seabird Electronics SBE Model 9/11+ CTD (s/n 0420) and a NMFS SBE19+V2 Seacat profiling CTD (s/n 7143). Salt water samples were collected for the purpose of calibrating the conductivity cell.

The SBE19+ was deployed on 191 double oblique bongo casts and 2 water sampling casts and 24 special tow-yo'd casts while sampling for tuna larvae in Slope water. The SBE9/11+ was used successfully on 39 stations.

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 [NODCformatted ASCII file](#).

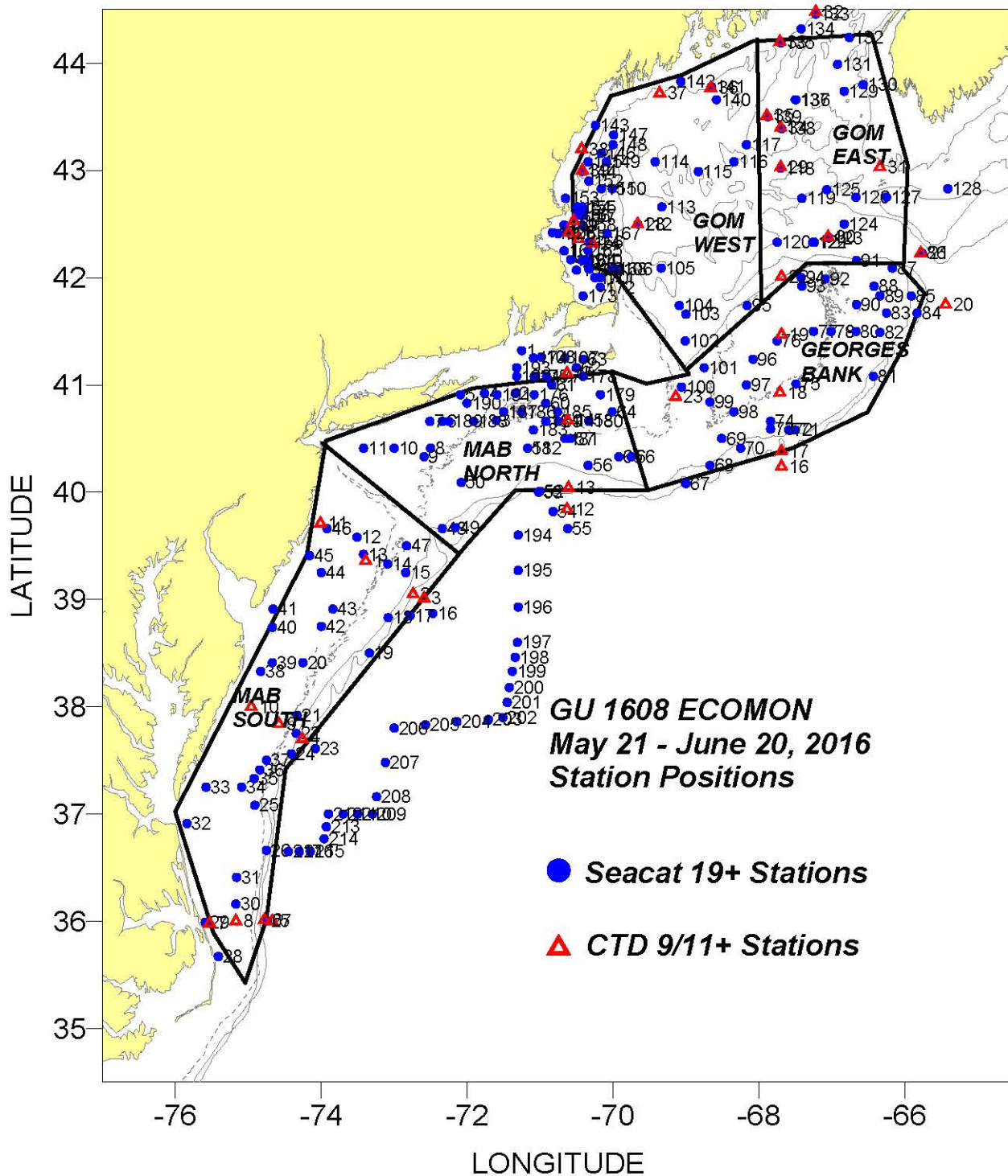
This report may be viewed on the [Oceans and Climate Branch website](#)

choose: **2016 Cruises**

MAY_ECOMON_GU1608

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**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
GU1608 ECOMON Survey
May 21 - June 20, 2016**

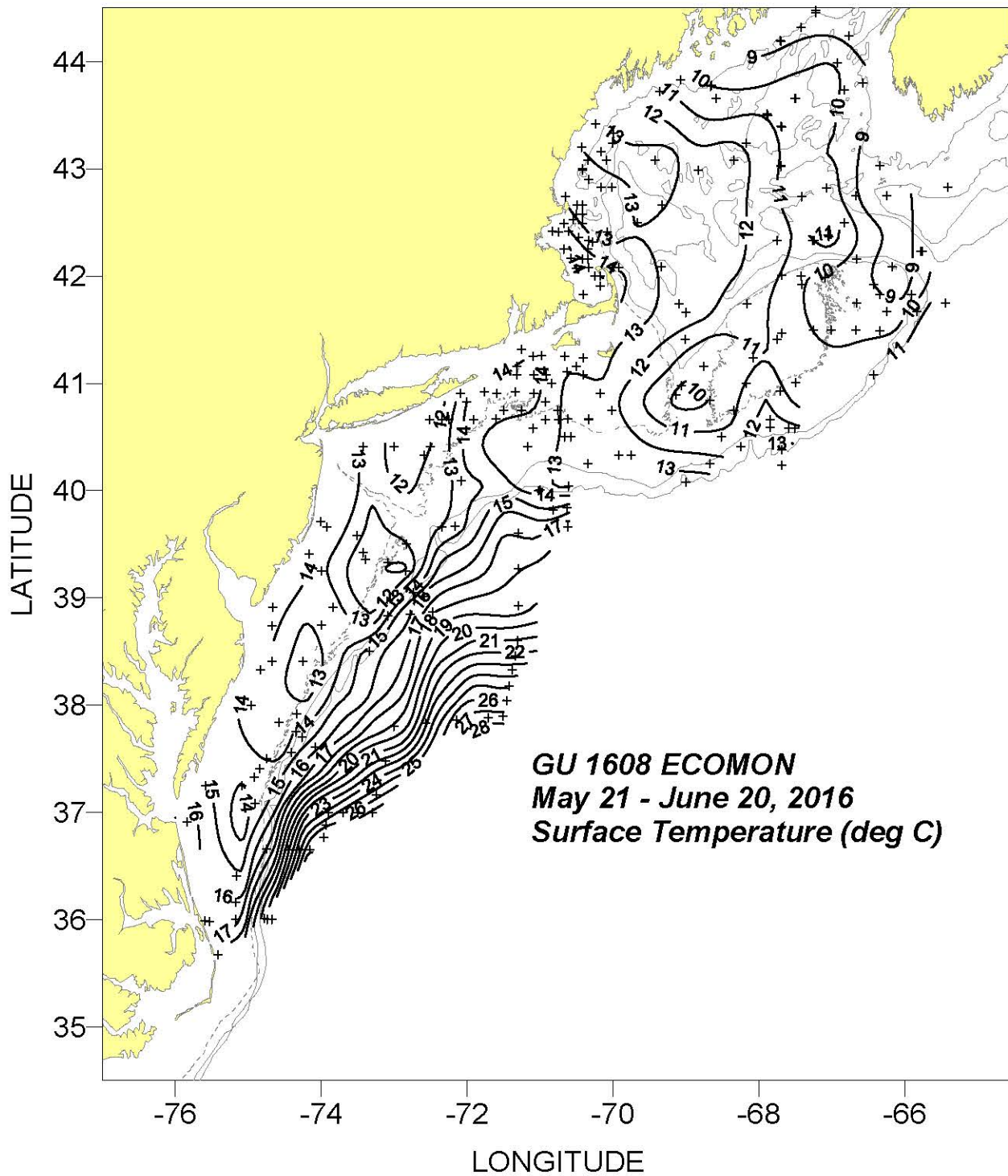
CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
Western Gulf of Maine														
gu1608	160	39	12.26	1.02	0.19	1.28	0	38	6.73	1.31	0.16	0.62	0	22
gu1608	160	39	31.96	0.05	0.08	0.40	0	38	33.01	-0.05	0.05	0.26	0	22
Eastern Gulf of Maine														
gu1608	161	25	10.22	0.99	0.19	0.66	0	20	8.85	1.75	0.28	0.60	0	22
gu1608	161	25	32.19	-0.15	0.10	0.36	0	20	34.10	0.14	0.09	0.37	0	22
Georges Bank														
gu1608	152	35	10.44	1.18	0.21	1.04	0	34	9.68	1.61	0.22	1.21	0	22
gu1608	152	35	32.55	-0.32	0.08	0.50	0	34	33.34	0.11	0.08	0.49	0	22
MAB North														
gu1608	153	41	12.89	0.49	0.26	1.02	0	40	8.97	1.43	0.26	0.71	0	22
gu1608	153	41	32.21	-0.18	0.11	0.35	0	40	33.18	-0.07	0.09	0.28	0	22
MAB South														
gu1608	146	40	13.95	-1.08	0.28	2.05	0	38	11.48	2.12	0.35	1.35	0	22
gu1608	146	40	33.00	0.80	0.18	0.78	0	38	33.64	0.12	0.12	0.43	0	22

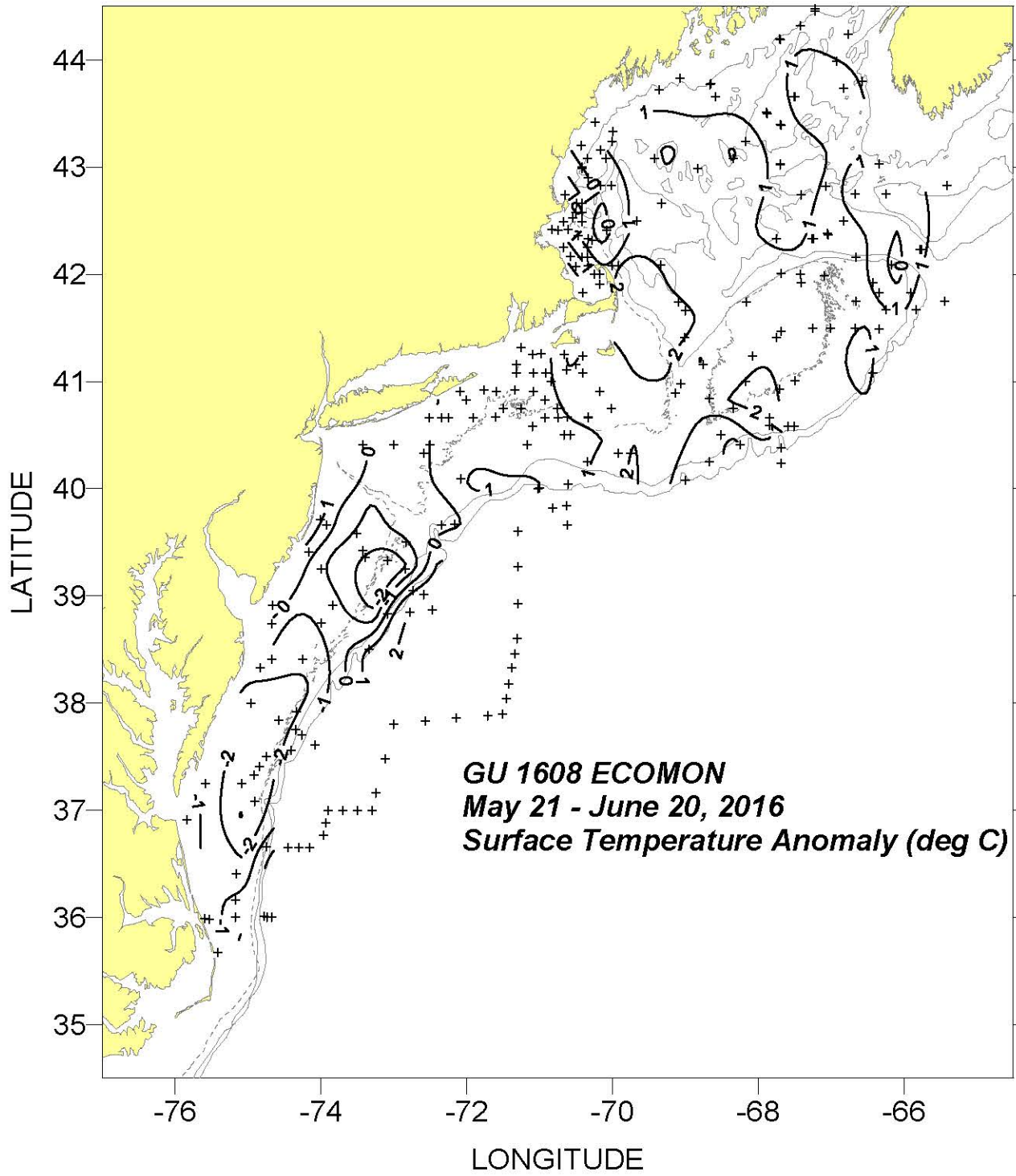
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

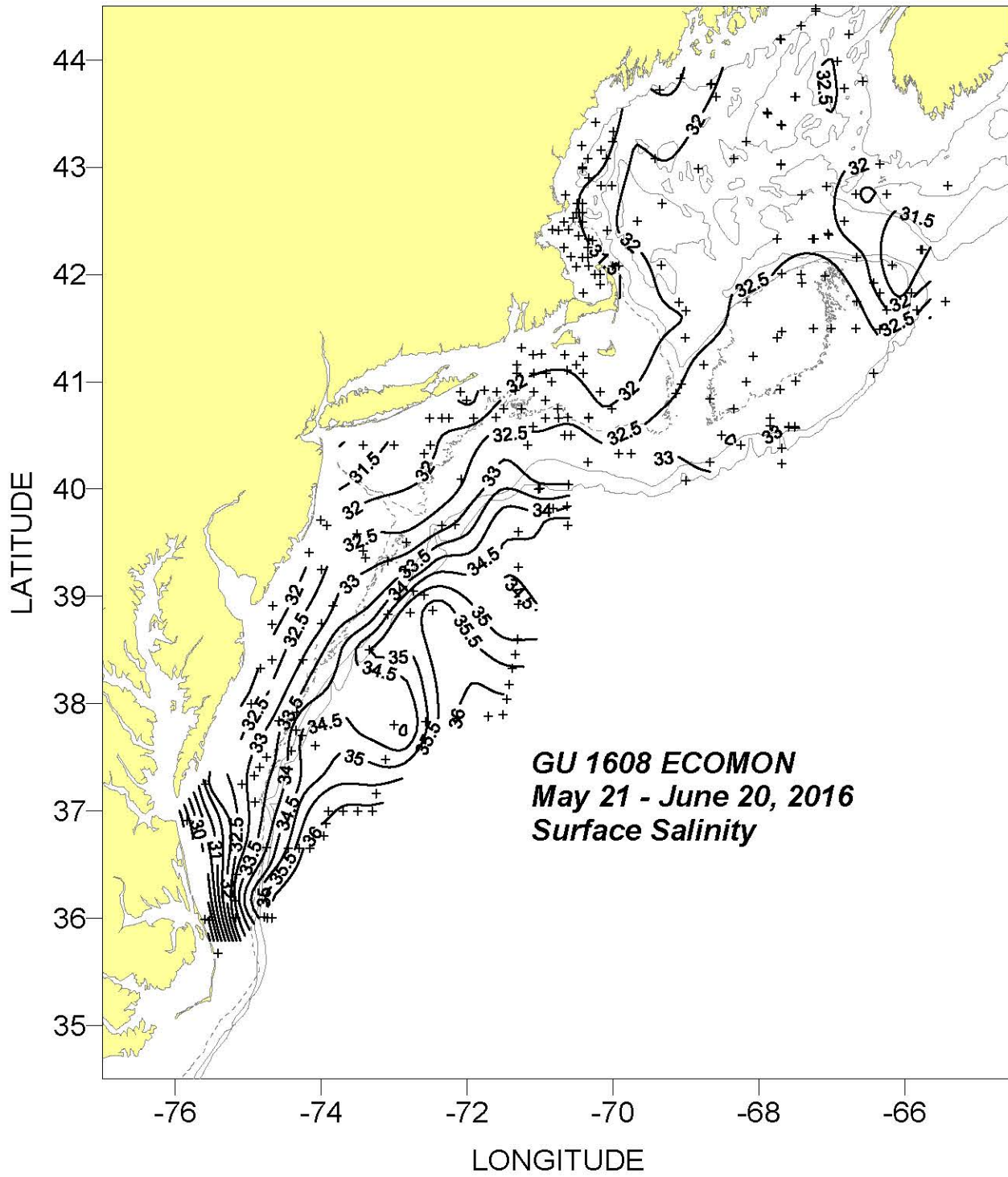
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

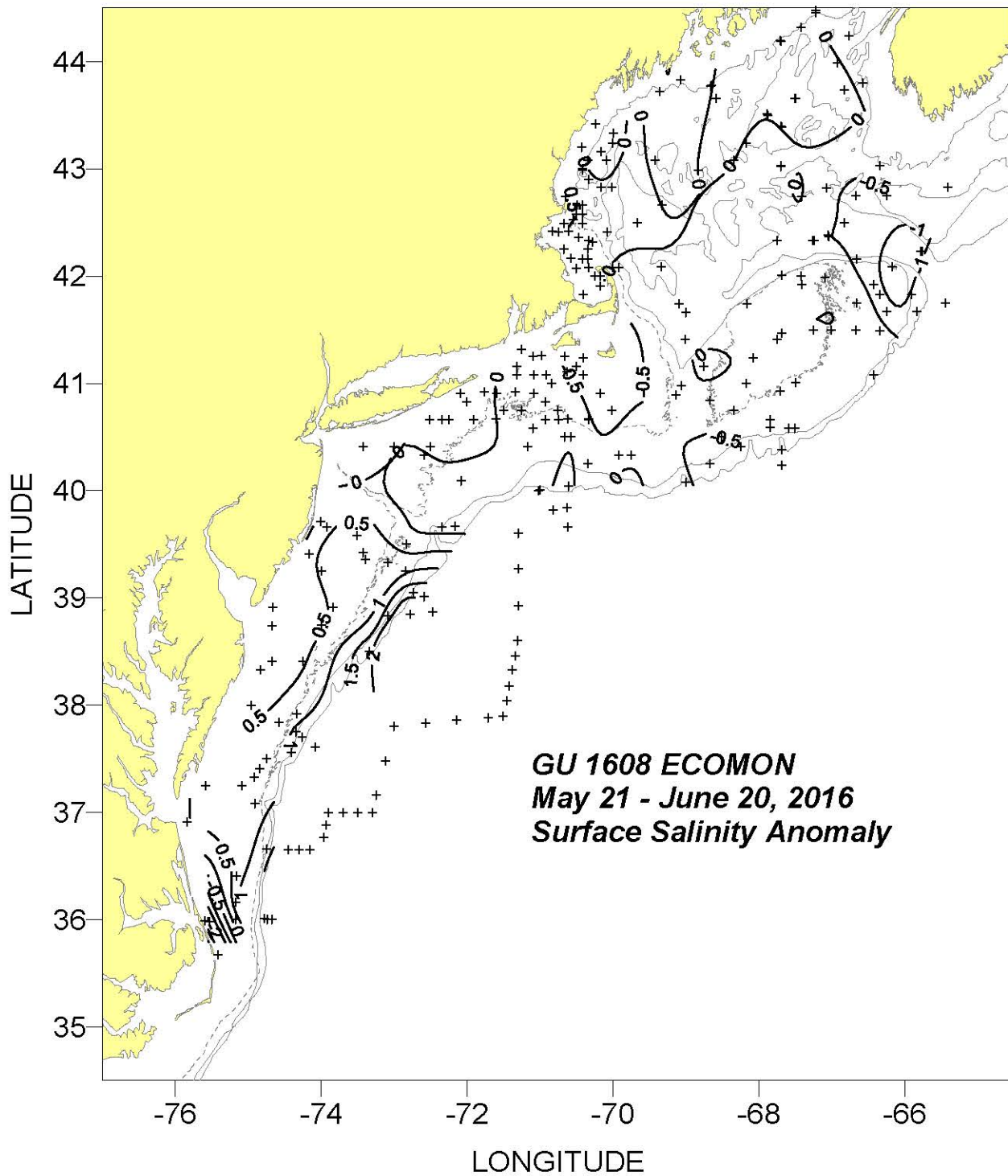
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal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

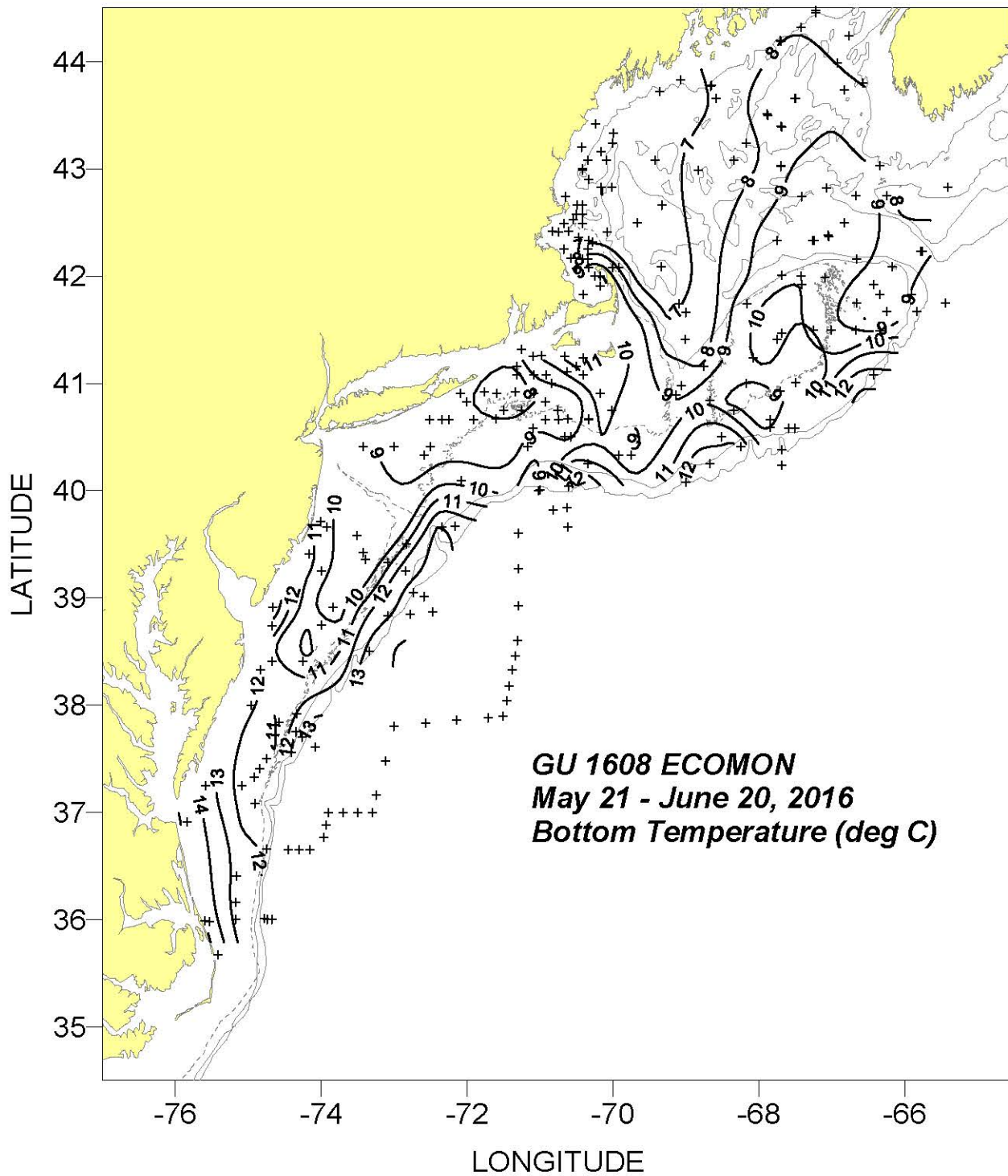
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

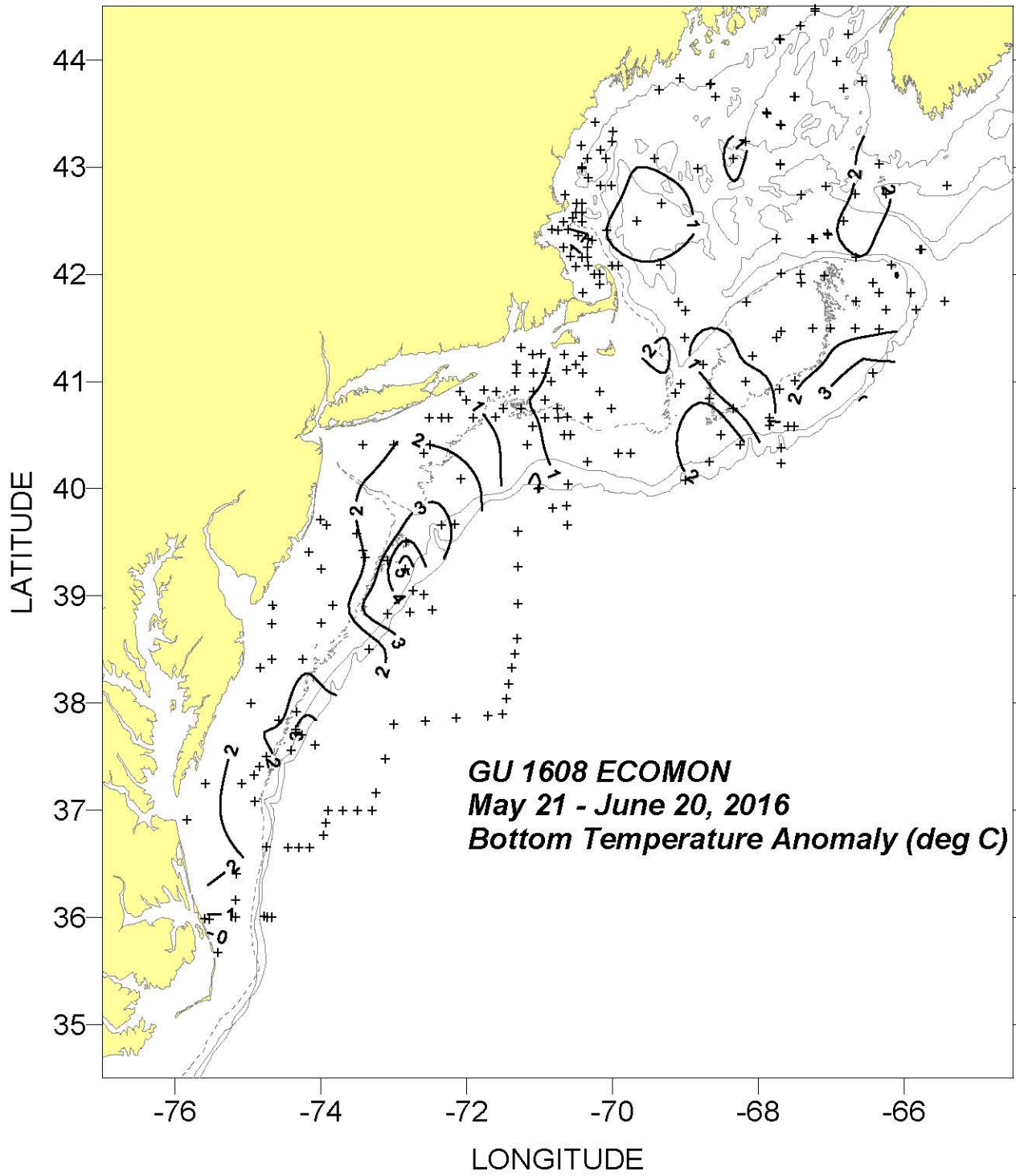


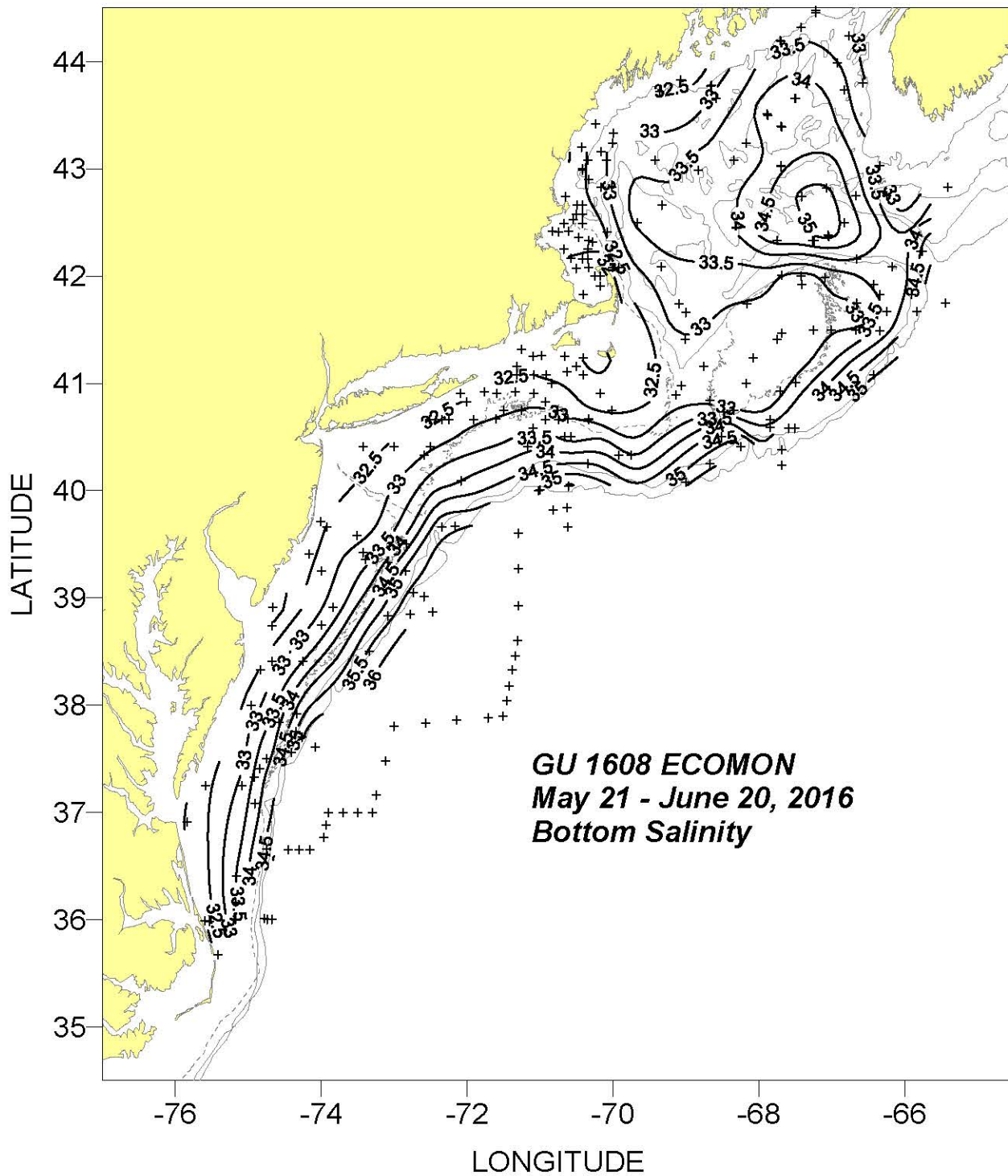


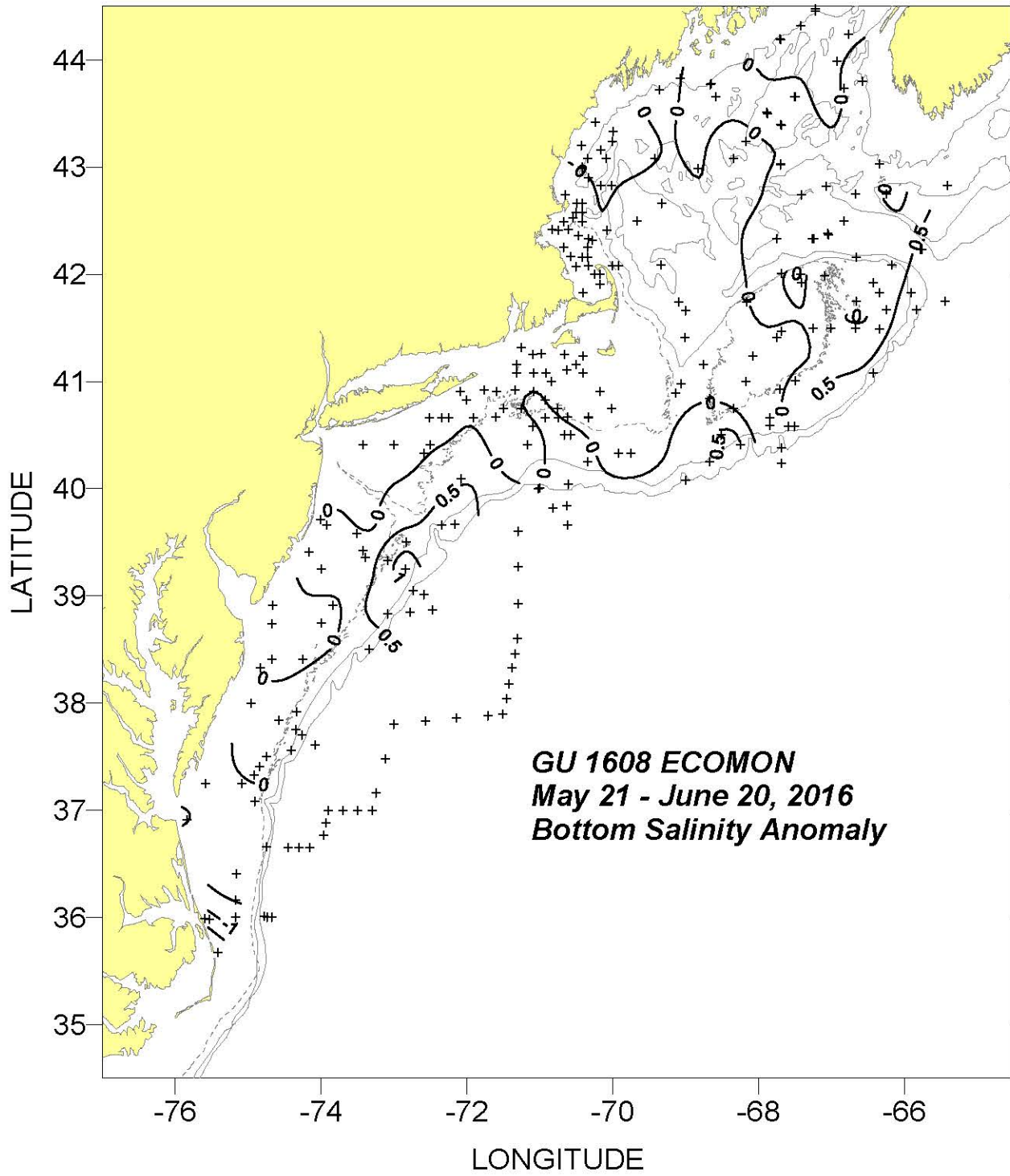












GU1608 ECOMON Survey
May 21 - June 20 2016

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	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
2	2	4055.1	7120.2	22	5	2016	0:24	56	12.29	32.17	7.33	32.65	5	B
3	3	4040.3	7136.1	22	5	2016	2:36	71	11.71	32.51	7.55	32.86	4	B
4	4	4055.0	7145.7	22	5	2016	4:37	49	11.10	31.39	7.44	32.71	3	B
5	5	4054.9	7205.7	22	5	2016	6:26	27	11.05	30.79	9.19	32.06	6	B
6	6	4039.7	7220.6	22	5	2016	8:36	43	11.61	32.08	8.14	32.70	6	B
7	7	4039.9	7230.5	22	5	2016	9:37	38	11.37	32.05	8.02	32.57	6	B
8	8	4024.6	7230.1	22	5	2016	11:33	49	11.50	31.86	8.01	32.87	4	B
9	9	4019.9	7235.1	22	5	2016	12:25	50	11.25	31.78	8.04	32.90	5	B
10	10	4024.9	7300.2	22	5	2016	14:43	38	11.48	31.73	8.43	32.57	5	B
11	11	4024.9	7325.2	22	5	2016	16:57	30	12.97	31.12	9.31	32.36	4	B
12	12	3934.8	7330.4	22	5	2016	22:25	38	11.56	32.60	9.40	32.75	4	B
13	13	3925.1	7325.2	22	5	2016	23:35	37	10.90	32.81	9.12	32.83	2	B
1	14	3921.8	7323.5	23	5	2016	0:33	49	11.09	32.84	8.93	33.21	2	W
14	15	3919.9	7305.4	23	5	2016	2:25	62	11.41	33.01	10.18	34.03	4	B
15	16	3914.9	7250.7	23	5	2016	4:00	83	10.66	33.37	12.91	35.18	3	B
2	17	3903.0	7244.7	23	5	2016	5:47	203	15.85	35.41	12.90	35.64	6	W
3	18	3900.8	7235.2	23	5	2016	7:12	1224	17.05	35.69	5.97	35.06	718	W
16	19	3852.2	7228.2	23	5	2016	9:06	1850	17.94	35.96	12.15	35.54	1647	B
17	20	3850.9	7246.6	23	5	2016	11:13	1321	17.15	35.62	11.70	35.47	1118	B
18	21	3849.9	7305.0	23	5	2016	13:14	89	10.90	33.47	13.66	35.42	4	B
19	22	3830.1	7320.5	23	5	2016	15:55	127	15.66	35.21	13.50	35.62	4	B
20	23	3824.9	7415.0	23	5	2016	20:30	46	12.04	33.00	9.81	33.42	4	B
21	24	3755.0	7420.0	23	5	2016	23:46	67	12.57	33.70	12.85	34.97	4	B
22	25	3744.9	7420.1	24	5	2016	1:07	80	13.77	34.43	13.34	35.17	4	B
4	26	3742.1	7415.5	24	5	2016	1:59	112	14.70	34.83	13.48	35.55	2	W
23	27	3736.7	7404.5	24	5	2016	3:33	1369	14.58	34.73	12.63	35.59	1166	B
24	28	3733.3	7424.9	24	5	2016	6:00	97	12.74	33.63	13.47	35.50	5	B
25	29	3705.0	7454.7	24	5	2016	10:12	50	12.74	33.18	10.71	33.54	4	B

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1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
26	30	3639.8	7444.9	24	5	2016	13:05	86	13.53	33.23	12.28	34.71	6	B
5	31	3600.1	7440.2	24	5	2016	17:43	1260	23.07	36.35	6.27	35.07	748	W
27	32	3600.1	7444.4	24	5	2016	19:04	663	23.26	36.33	12.40	35.60	460	B
6	33	3600.4	7446.6	24	5	2016	20:13	365	23.54	36.37	9.28	35.22	3	W
28	34	3540.3	7524.4	25	5	2016	0:58	24	17.17	28.24	15.37	31.68	2	B
29	35	3559.6	7535.2	25	5	2016	3:36	22	17.26	27.34	14.84	32.04	3	B
7	36	3558.9	7531.7	25	5	2016	4:53	24	15.93	30.74	14.39	32.48	3	W
8	37	3600.0	7510.3	25	5	2016	6:57	34	15.81	33.15	12.93	33.43	3	W
30	38	3609.9	7510.0	25	5	2016	8:17	33	15.27	33.27	12.86	33.37	5	B
31	39	3624.9	7509.8	25	5	2016	10:17	32	15.48	33.20	12.70	33.40	1	B
32	40	3654.9	7550.1	25	5	2016	15:12	13	17.17	28.85	15.04	32.04	4	B
33	41	3714.9	7534.9	25	5	2016	17:52	21	15.22	31.98	13.60	32.40	3	B
34	42	3715.0	7505.2	25	5	2016	20:38	35	14.15	32.94	11.63	33.10	3	B
35	43	3719.8	7455.4	25	5	2016	21:57	40	13.68	33.17	10.84	33.34	3	B
36	44	3724.7	7450.1	25	5	2016	22:58	47	14.43	33.10	10.47	33.46	4	B
37	45	3730.0	7445.1	25	5	2016	23:57	51	13.75	33.26	10.68	33.80	4	B
9	46	3750.6	7434.9	26	5	2016	2:28	54	13.58	33.31	10.17	33.67	3	W
10	47	3800.0	7457.5	26	5	2016	4:57	22	13.75	32.28	12.61	32.77	3	W
38	48	3819.9	7449.8	26	5	2016	7:33	18	13.72	31.56	12.47	32.34	3	B
39	49	3824.8	7440.2	26	5	2016	8:58	35	13.91	32.32	10.75	32.73	5	B
40	50	3844.6	7440.0	26	5	2016	11:22	26	14.19	31.91	12.42	32.38	5	B
41	51	3854.9	7439.8	26	5	2016	12:54	15	14.54	31.57	13.73	31.62	4	B
42	52	3844.8	7400.2	26	5	2016	17:36	48	12.97	32.96	9.01	33.16	4	B
43	53	3854.8	7350.2	26	5	2016	19:14	40	13.45	32.89	9.25	33.11	1	B
44	54	3915.0	7359.9	26	5	2016	21:44	27	12.63	32.75	9.95	32.94	5	B
45	55	3924.8	7409.9	26	5	2016	23:15	18	14.96	31.71	11.60	32.35	4	B
11	56	3942.5	7400.5	27	5	2016	1:29	22	15.76	31.42	10.64	32.47	2	W

GU1608 ECOMON Survey
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1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
46	57	3939.7	7355.1	27	5	2016	2:15	26	14.68	31.88	10.02	32.75	4	B
47	58	3929.9	7250.0	27	5	2016	7:52	65	13.19	32.59	9.95	33.92	4	B
48	59	3939.8	7220.1	27	5	2016	10:44	114	12.91	32.75	13.55	35.48	4	B
49	60	3940.0	7209.9	27	5	2016	12:00	124	12.82	32.86	13.40	35.58	4	B
50	61	4005.2	7204.9	27	5	2016	15:03	74	13.54	32.30	9.56	33.90	6	B
51	62	4024.7	7110.3	27	5	2016	20:33	83	12.68	32.74	9.64	33.86	3	B
53	63	4000.2	7100.9	28	5	2016	0:24	343	13.26	33.02	8.20	35.14	3	W
52	63	4000.7	7100.0	27	5	2016	23:55	321	13.24	33.03	12.96	35.62	119	B
54	64	3949.2	7049.0	28	5	2016	2:26	1072	13.94	33.58	12.82	35.62	870	B
55	65	3939.3	7037.2	28	5	2016	4:26	2216	17.75	34.85	12.32	35.57	2014	B
12	66	3950.5	7037.6	28	5	2016	6:07	805	15.73	34.16	5.94	35.05	299	W
13	67	4002.2	7036.3	28	5	2016	8:17	170	12.81	32.99	13.36	35.59	2	W
56	68	4014.9	7020.1	28	5	2016	10:42	100	11.70	32.85	12.21	35.00	4	B
57	69	4030.0	7034.8	28	5	2016	12:58	71	12.37	32.62	8.31	33.19	5	B
58	70	4040.0	7019.9	28	5	2016	14:46	52	12.19	32.52	8.24	32.63	5	B
14	71	4040.2	7037.4	28	5	2016	16:32	62	12.20	32.46	7.83	32.82	2	W
59	72	4039.9	7045.1	28	5	2016	17:37	65	12.87	32.52	7.77	32.90	3	B
60	73	4049.8	7055.1	28	5	2016	19:10	55	13.77	32.23	7.84	32.90	3	B
61	74	4059.9	7050.1	28	5	2016	20:34	50	13.00	32.15	7.84	32.53	3	B
15	75	4106.5	7037.5	28	5	2016	22:06	43	12.48	32.17	8.49	32.49	3	W
62	76	4109.9	7030.1	28	5	2016	23:10	37	12.75	31.87	9.25	32.29	5	B
63	77	4114.4	7024.5	29	5	2016	0:06	31	12.70	31.87	10.41	32.10	5	B
64	78	4044.9	7000.4	29	5	2016	4:11	39	11.24	31.91	9.54	32.22	5	B
65	79	4019.9	6955.1	29	5	2016	7:11	84	12.81	32.69	9.37	33.70	5	B
66	80	4019.9	6945.2	29	5	2016	8:20	76	12.74	32.83	8.61	33.31	4	B
67	81	4004.8	6900.0	29	5	2016	12:24	172	13.76	33.46	12.14	35.51	4	B
68	82	4015.1	6840.0	29	5	2016	14:58	114	12.11	32.40	13.10	35.50	4	B
69	83	4029.9	6830.3	29	5	2016	17:14	91	11.95	32.56	12.29	34.92	4	B

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1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
70	84	4024.8	6815.0	29	5	2016	19:02	125	10.75	32.44	12.07	35.41	5	B
16	85	4014.6	6741.7	29	5	2016	22:31	1182	19.23	35.93	5.37	35.04	674	W
17	86	4022.8	6741.4	30	5	2016	0:08	295	13.35	33.12	9.40	35.25	14	W
71	87	4034.8	6730.2	30	5	2016	2:21	106	10.88	32.37	12.07	35.12	4	B
72	88	4034.6	6735.3	30	5	2016	3:07	105	10.15	32.41	9.27	33.84	4	B
73	89	4035.5	6750.4	30	5	2016	4:37	89	12.30	32.58	7.54	33.06	4	B
74	90	4039.9	6750.1	30	5	2016	5:27	80	12.76	32.63	7.40	32.94	6	B
18	91	4055.8	6742.4	30	5	2016	8:01	65	12.12	32.69	8.28	32.66	4	W
75	92	4100.5	6729.6	30	5	2016	9:56	67	10.52	32.67	8.27	32.68	5	B
76	93	4124.7	6745.2	30	5	2016	13:11	34	10.78	32.87	10.78	32.85	4	B
19	94	4128.0	6741.5	30	5	2016	14:02	35	10.71	32.84	10.71	32.84	1	W
77	95	4129.8	6715.2	30	5	2016	16:34	47	9.72	32.85	9.72	32.84	4	B
78	96	4130.0	6700.4	30	5	2016	18:17	65	9.73	32.83	9.27	32.83	1	B
79	96	4129.8	6700.3	30	5	2016	18:46	65	9.74	32.83	9.24	32.83	4	B
80	97	4129.8	6640.4	30	5	2016	20:43	79	9.71	32.77	8.13	32.83	5	B
81	98	4104.8	6625.8	30	5	2016	23:58	155	11.16	32.42	13.98	35.39	6	B
82	99	4129.7	6620.3	31	5	2016	3:12	90	9.90	32.66	8.01	33.29	3	B
83	100	4140.1	6615.1	31	5	2016	4:48	88	8.58	31.26	7.48	33.26	4	B
84	101	4140.0	6550.0	31	5	2016	7:18	159	11.35	32.75	9.83	35.26	4	B
20	102	4145.1	6526.4	31	5	2016	9:48	2008	11.35	33.09	5.77	35.04	1502	W
85	103	4149.8	6554.9	31	5	2016	13:08	113	8.93	31.34	10.44	34.41	4	B
86	104	4213.6	6545.8	31	5	2016	16:24	224	9.47	31.03	10.93	35.38	22	B
21	104	4213.6	6546.5	31	5	2016	17:19	224	9.14	30.97	8.85	35.25	1	W
87	105	4205.1	6610.1	31	5	2016	19:45	96	7.77	31.24	7.49	33.17	7	B
88	106	4155.0	6625.2	31	5	2016	21:51	91	9.01	31.74	7.55	32.89	5	B
89	107	4149.9	6620.2	31	5	2016	22:57	79	9.15	31.04	6.52	32.82	4	B
90	108	4144.9	6639.4	1	6	2016	1:03	65	8.96	32.82	8.96	32.79	3	B

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1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
91	109	4209.9	6639.9	1	6	2016	4:22	169	9.98	32.35	10.53	35.02	3	B
92	110	4159.7	6705.3	1	6	2016	7:01	54	9.56	32.72	9.43	32.81	4	B
93	111	4155.3	6724.9	1	6	2016	8:49	51	10.15	32.84	10.15	32.82	6	B
94	112	4200.2	6725.3	1	6	2016	9:28	39	10.01	32.76	10.01	32.75	4	B
22	113	4200.6	6741.3	1	6	2016	11:10	67	11.16	32.37	9.10	32.74	1	W
95	114	4144.6	6809.9	1	6	2016	14:29	53	11.66	32.66	9.86	32.78	6	B
96	115	4114.7	6805.0	1	6	2016	17:32	44	10.63	32.81	10.63	32.80	4	B
97	116	4059.9	6810.1	1	6	2016	19:20	44	10.94	32.79	10.60	32.79	3	B
98	117	4045.0	6820.3	1	6	2016	21:46	60	11.01	32.59	8.26	32.67	3	B
99	118	4050.1	6840.1	1	6	2016	23:33	62	9.85	32.75	9.85	32.72	5	B
23	119	4053.7	6908.3	2	6	2016	2:16	72	9.38	32.53	8.88	32.58	4	W
100	120	4058.9	6903.3	2	6	2016	3:26	79	9.60	32.81	9.60	32.77	3	B
101	121	4109.7	6845.2	2	6	2016	5:52	60	9.60	32.70	7.92	32.74	4	B
102	122	4124.9	6900.5	2	6	2016	8:15	151	12.55	31.96	6.50	33.14	5	B
103	123	4139.9	6900.1	2	6	2016	10:06	159	12.67	31.84	6.39	33.17	5	B
104	124	4144.7	6905.3	2	6	2016	11:15	171	12.47	31.98	6.54	33.27	4	B
105	125	4205.1	6920.3	2	6	2016	14:10	216	12.85	32.44	6.52	33.42	7	B
106	126	4204.6	6955.4	2	6	2016	17:32	88	13.90	31.15	5.88	32.55	3	B
107	127	4115.2	7039.3	3	6	2016	6:54	26	13.74	31.73	13.08	31.78	5	B
108	128	4115.9	7058.8	3	6	2016	8:51	41	14.16	31.88	10.25	32.16	5	B
109	129	4210.0	7034.6	7	6	2016	23:45	29	13.90	31.25	6.87	31.95	4	B
110	130	4209.8	7020.2	8	6	2016	1:07	26	14.10	31.27	9.18	31.66	4	B
24	131	4219.1	7016.9	8	6	2016	3:02	34	12.96	31.47	6.71	32.17	2	W
25	132	4221.4	7028.1	8	6	2016	4:16	78	13.89	31.37	5.78	32.40	3	W
111	133	4225.3	7036.3	8	6	2016	5:34	89	14.53	31.10	5.73	32.37	4	B
26	133	4225.4	7036.8	8	6	2016	5:55	89	14.58	31.09	5.71	32.32	3	W
27	134	4231.9	7032.3	8	6	2016	7:10	58	13.92	31.24	5.80	32.24	2	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
1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
112	135	4229.9	6939.3	8	6	2016	11:29	250	12.98	32.33	6.62	33.51	47	B
28	135	4230.1	6939.8	8	6	2016	12:13	243	12.93	32.32	6.58	33.76	3	W
113	136	4239.5	6919.5	8	6	2016	14:33	220	12.84	32.35	6.55	33.56	7	B
114	137	4304.8	6925.1	8	6	2016	17:48	179	14.09	31.87	6.52	33.35	5	B
115	138	4259.7	6849.8	8	6	2016	20:54	183	12.54	32.25	7.51	33.75	8	B
116	139	4304.9	6820.1	8	6	2016	23:53	203	12.57	32.25	7.34	33.61	7	B
117	140	4314.7	6810.3	9	6	2016	1:44	206	12.41	32.21	7.79	33.84	3	B
118	141	4301.1	6742.3	9	6	2016	5:05	175	10.51	32.18	8.28	34.05	8	B
29	141	4301.7	6742.1	9	6	2016	5:41	184	NaN	NaN	8.19	34.00	6	W
119	142	4244.4	6724.8	9	6	2016	8:47	207	10.11	32.27	9.68	35.13	5	B
120	143	4219.6	6744.8	9	6	2016	12:40	220	11.40	32.28	9.80	35.13	6	B
121	144	4219.5	6714.5	9	6	2016	15:36	295	11.07	32.20	9.44	35.14	91	B
122	144	4219.7	6715.5	9	6	2016	16:05	295	10.87	NaN	9.22	35.14	3	W
123	145	4222.2	6702.4	9	6	2016	17:44	337	11.47	32.07	9.51	35.17	133	B
30	145	4222.5	6703.1	9	6	2016	18:13	338	11.40	32.08	8.77	35.14	4	W
124	146	4229.8	6650.0	9	6	2016	20:19	291	11.33	32.07	8.84	35.14	88	B
125	147	4249.3	6704.4	9	6	2016	23:39	206	10.51	32.24	10.01	35.01	6	B
126	148	4244.9	6640.1	10	6	2016	2:10	169	8.61	31.16	10.22	34.56	3	B
127	149	4244.9	6615.2	10	6	2016	4:52	63	8.84	31.67	8.18	32.38	6	B
128	150	4249.6	6524.7	10	6	2016	8:55	131	9.60	31.81	6.85	32.87	4	B
31	151	4301.6	6620.5	10	6	2016	14:42	128	8.45	32.31	8.41	33.31	3	W
129	152	4344.7	6650.0	10	6	2016	19:51	170	9.96	32.69	8.03	33.62	4	B
130	153	4348.1	6634.3	10	6	2016	21:40	98	9.05	31.89	7.98	32.83	3	B
131	154	4359.7	6655.4	11	6	2016	0:04	164	10.18	32.47	7.95	33.68	3	B
132	155	4414.4	6645.7	11	6	2016	2:19	183	8.88	32.44	7.75	33.41	3	B
133	156	4427.9	6713.3	11	6	2016	5:11	98	7.80	32.19	7.65	32.25	6	B
32	156	4428.5	6713.4	11	6	2016	5:30	104	7.84	32.19	7.63	32.29	5	W
134	157	4419.4	6725.0	11	6	2016	7:19	119	8.67	32.49	7.93	33.30	6	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
1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
135	158	4411.6	6742.0	11	6	2016	9:08	178	8.07	32.28	7.85	33.49	5	B
33	158	4411.9	6742.4	11	6	2016	9:49	180	8.09	32.34	7.80	33.42	7	W
136	159	4339.3	6729.7	11	6	2016	13:50	226	10.99	32.41	8.84	34.32	24	B
137	159	4339.9	6730.2	11	6	2016	14:18	225	11.30	32.40	8.87	34.33	3	W
138	160	4323.7	6741.3	11	6	2016	16:42	247	10.81	32.34	8.63	34.24	44	B
34	160	4323.9	6741.8	11	6	2016	17:14	248	10.90	32.35	8.64	34.25	3	W
139	161	4330.2	6752.8	11	6	2016	18:50	247	11.06	32.16	8.72	34.27	45	B
35	161	4330.6	6753.6	11	6	2016	19:34	249	10.98	32.17	8.74	34.29	5	W
140	162	4339.6	6834.9	11	6	2016	23:15	164	9.74	32.22	6.87	33.19	5	B
141	163	4346.6	6839.0	12	6	2016	0:33	105	9.46	32.11	7.16	32.65	7	B
36	163	4346.3	6839.6	12	6	2016	0:55	114	9.51	32.11	7.00	32.68	1	W
142	164	4349.7	6904.2	12	6	2016	3:11	72	10.69	31.22	6.81	32.22	5	B
37	165	4343.3	6921.8	12	6	2016	4:55	82	10.70	31.46	6.47	32.36	5	W
143	166	4325.1	7014.6	12	6	2016	9:22	85	13.14	30.82	5.73	32.32	4	B
38	167	4312.0	7025.6	12	6	2016	11:14	56	12.95	30.97	6.11	32.08	4	W
144	168	4259.5	7025.2	12	6	2016	12:58	105	12.52	31.39	5.64	32.56	4	B
39	168	4300.0	7025.0	12	6	2016	13:17	107	12.64	31.38	5.66	32.58	3	W
145	169	4304.6	7020.1	12	6	2016	14:17	119	12.89	31.44	5.78	32.70	6	B
146	170	4309.5	7009.7	12	6	2016	15:28	147	13.48	31.20	6.05	32.99	4	B
147	171	4319.5	6959.6	12	6	2016	17:08	162	13.02	32.14	6.31	33.22	3	B
148	172	4314.3	7000.0	12	6	2016	18:14	112	12.62	32.07	5.97	32.90	3	B
149	173	4304.5	7005.1	12	6	2016	19:35	100	12.56	31.94	5.83	32.71	5	B
150	174	4249.7	7000.3	12	6	2016	21:27	179	12.67	31.78	6.55	33.58	3	B
151	175	4249.6	7009.7	12	6	2016	22:41	107	12.57	31.69	5.89	32.70	6	B
152	176	4254.1	7019.6	13	6	2016	0:04	167	12.47	31.56	5.91	32.85	3	B
153	177	4244.4	7039.1	13	6	2016	2:20	45	12.35	31.30	6.68	31.98	5	B
154	178	4239.5	7029.6	13	6	2016	3:28	87	12.37	31.61	5.78	32.31	3	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
1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
155	179	4239.7	7025.2	13	6	2016	4:07	46	12.07	31.73	6.04	32.22	4	B
156	180	4234.7	7030.1	13	6	2016	4:57	80	12.14	31.64	5.95	32.26	3	B
157	181	4234.7	7025.1	13	6	2016	5:37	127	12.26	31.68	5.83	32.49	3	B
158	182	4229.6	7025.2	13	6	2016	6:31	80	12.41	31.70	5.70	32.34	3	B
159	183	4229.7	7040.2	13	6	2016	7:53	64	12.81	31.28	5.97	32.18	4	B
160	184	4225.2	7049.7	13	6	2016	9:02	35	12.82	31.44	7.20	31.91	4	B
161	185	4224.9	7045.1	13	6	2016	9:41	40	13.46	31.29	6.74	31.99	4	B
162	186	4214.8	7040.2	13	6	2016	11:01	30	13.12	31.64	8.95	31.71	4	B
163	187	4204.3	7029.9	13	6	2016	12:35	48	12.58	31.62	6.59	32.02	4	B
164	188	4209.8	7025.2	13	6	2016	13:33	65	12.45	31.68	5.83	32.27	4	B
165	189	4214.8	7020.1	13	6	2016	14:23	59	11.72	31.93	5.86	32.29	5	B
166	190	4219.9	7019.9	13	6	2016	15:09	60	11.82	31.92	5.84	32.31	5	B
167	191	4224.7	7005.0	13	6	2016	16:37	87	12.10	32.05	5.88	32.52	2	B
168	192	4204.7	7000.1	13	6	2016	18:52	59	12.15	31.63	6.81	32.02	3	B
169	193	4204.7	7019.9	13	6	2016	20:50	61	13.44	31.46	6.20	32.10	5	B
170	194	4159.8	7015.1	13	6	2016	21:49	44	15.33	31.30	7.15	31.81	4	B
171	195	4159.8	7010.3	13	6	2016	22:34	32	15.19	31.30	9.61	31.51	5	B
172	196	4154.7	7010.3	13	6	2016	23:34	28	15.42	31.31	13.21	31.35	4	B
173	197	4149.8	7024.9	14	6	2016	1:35	26	14.41	31.25	13.22	31.32	4	B
174	198	4114.9	7105.3	14	6	2016	13:57	43	13.90	31.97	9.53	32.28	4	B
175	199	4104.5	7104.9	14	6	2016	15:16	34	14.51	31.88	9.02	32.46	4	B
176	200	4054.6	7105.0	14	6	2016	16:36	53	14.13	31.97	7.97	32.70	4	B
177	201	4104.9	7054.9	14	6	2016	18:08	38	14.38	31.86	9.47	32.39	4	B
178	202	4104.5	7024.8	14	6	2016	20:44	40	13.34	31.92	9.73	32.39	4	B
179	203	4054.9	7010.2	14	6	2016	22:39	28	13.55	31.80	11.63	32.02	4	B
180	204	4039.9	7019.9	15	6	2016	0:42	52	12.76	32.22	8.35	32.96	3	B
181	205	4030.0	7039.9	15	6	2016	2:48	74	14.02	32.54	8.70	33.22	3	B
182	206	4024.9	7110.1	15	6	2016	5:35	83	14.25	32.60	9.97	33.93	3	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
1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
183	207	4034.9	7105.1	15	6	2016	6:57	72	14.19	32.41	9.05	33.47	4	B
184	208	4039.8	7055.1	15	6	2016	8:11	68	13.89	32.42	8.83	33.29	4	B
185	209	4044.9	7045.3	15	6	2016	9:25	63	13.67	32.43	8.67	33.00	5	B
186	210	4044.8	7115.2	15	6	2016	11:53	61	14.10	32.30	7.97	32.86	4	B
187	211	4044.9	7130.1	15	6	2016	13:15	63	14.57	32.06	7.82	32.83	4	B
188	212	4039.8	7154.8	15	6	2016	15:30	52	15.50	32.19	7.88	32.94	4	B
189	213	4039.7	7215.2	15	6	2016	17:30	49	14.77	31.97	7.58	32.64	3	B
190	214	4049.9	7200.1	15	6	2016	19:15	42	14.85	31.31	8.17	32.49	5	B
191	215	4054.9	7135.2	15	6	2016	21:35	56	15.99	31.99	7.73	32.71	3	B
192	216	4104.7	7119.3	15	6	2016	23:49	42	15.45	32.10	8.27	32.57	4	B
193	217	4109.9	7119.1	16	6	2016	0:56	43	15.24	32.01	8.34	32.55	4	B
194	218	3936.0	7117.9	18	6	2016	11:11	2168	18.50	35.23	18.24	35.38	2142	B
195	219	3915.9	7117.9	18	6	2016	13:28	2681	18.10	34.66	18.09	35.52	2655	B
196	220	3856.0	7118.2	18	6	2016	15:44	2800	17.34	33.74	16.53	35.59	2774	B
197	221	3836.0	7118.3	18	6	2016	17:58	2869	21.72	35.27	19.32	35.41	2843	B
198	222	3827.6	7120.7	18	6	2016	19:09	2917	21.86	35.14	20.16	35.77	2890	B
199	223	3819.5	7122.8	18	6	2016	20:18	2973	23.59	35.47	19.84	35.11	2947	B
200	224	3810.8	7125.0	18	6	2016	21:32	3061	23.29	35.59	20.48	35.16	3035	B
201	225	3802.4	7126.9	18	6	2016	22:52	3168	26.93	36.24	26.93	36.23	3141	B
202	226	3753.9	7130.3	19	6	2016	0:36	3242	28.22	36.40	28.22	36.39	3216	B
203	227	3753.1	7142.7	19	6	2016	2:48	3153	28.19	36.36	28.19	36.35	3128	B
204	228	3751.6	7208.4	19	6	2016	6:45	3200	27.39	36.32	27.39	36.31	3173	B
205	229	3749.6	7234.3	19	6	2016	9:37	2911	22.85	35.01	16.58	35.20	2885	B
206	230	3748.0	7300.0	19	6	2016	12:02	2739	16.93	32.81	9.16	33.47	2713	B
207	231	3728.9	7307.0	19	6	2016	14:09	2916	24.26	35.64	19.58	34.56	2889	B
208	232	3709.7	7314.4	19	6	2016	16:50	2937	24.46	34.98	25.74	36.18	2912	B
209	233	3700.1	7318.1	19	6	2016	18:53	3030	27.50	36.21	25.66	35.81	3004	B
210	234	3700.0	7330.0	19	6	2016	20:59	2862	25.87	36.21	24.02	35.86	2836	B

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1	1	4119.3	7115.2	21	5	2016	21:25	36	12.01	31.98	8.38	32.44	4	B
211	235	3700.1	7341.9	19	6	2016	22:45	2721	25.22	36.15	24.12	36.01	2695	B
212	236	3700.1	7353.9	20	6	2016	0:22	2490	24.65	35.75	24.08	35.89	2464	B
213	237	3653.0	7355.8	20	6	2016	1:32	2624	26.99	36.25	25.75	36.11	2598	B
214	238	3646.1	7357.6	20	6	2016	2:46	2628	27.17	36.19	26.84	36.26	2602	B
215	239	3639.0	7409.1	20	6	2016	4:40	2353	27.00	36.17	26.65	36.28	2327	B
216	240	3638.9	7418.1	20	6	2016	5:50	2037	26.69	36.25	26.42	36.31	2011	B
217	241	3638.9	7427.1	20	6	2016	6:57	1723	25.62	35.80	24.36	35.47	1698	B

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

Casts in bold are from CTD s/n 0420