

Oceanography Branch CTD Data Report
CTD_REPORT_2013002GU

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DATE: March 28, 2014

Oceanography Branch CTD Data Report

CTD_REPORT_2013002GU

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

GU 13-02
ECOMON
Data Coverage: June 09 - 29, 2013
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 GU1302 ECOMON Survey aboard the NOAA Ship *Gordon Gunter*. Data was obtained with a Seabird Electronics SBE Model 19+ V2 profiling CTD (s/n 7143) and a Seabird Electronics SBE Model 9/11+ CTD (s/n 0420). Sea water samples were taken for the purpose of correcting conductivity and dissolved oxygen sensors on the SBE 0420.

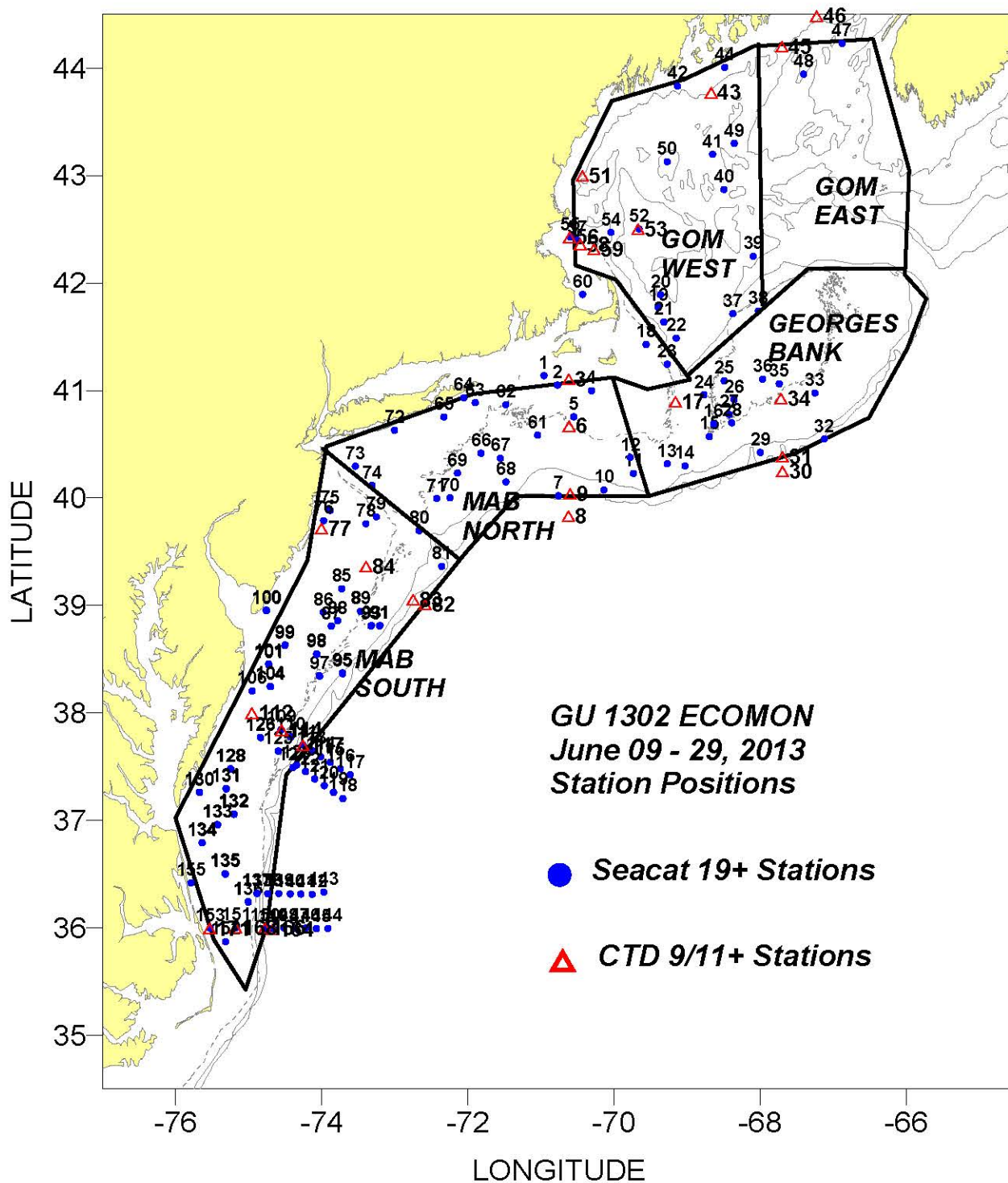
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/gu1302.dat>

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

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

choose: **2013 Cruises**
 JUN_ECOMON_GU1302
 CTD_REPORT_2013002GU.pdf

Revised: March 28, 2014



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
GU1302 ECOMON Survey
June 09 - 29, 2013**

		SURFACE						BOTTOM						
CRUISE	CD	#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	Purpose
Western Gulf of Maine														
gu1302	165	20	12.49	0.51	0.24	2.66	1	20	6.79	1.29	0.21	2.82	1	22
gu1302	165	20	31.54	-0.26	0.16	0.97	1	20	33.01	-0.06	0.12	0.79	1	22
Georges Bank														
gu1302	163	18	12.49	1.59	0.27	2.42	1	15	10.24	1.51	0.26	3.02	1	22
gu1302	163	18	32.92	0.05	0.15	0.77	1	15	33.03	0.09	0.16	0.84	1	22
MAB North														
gu1302	165	22	15.26	0.58	0.26	1.62	0	20	10.39	2.61	0.30	1.90	0	22
gu1302	165	22	32.51	0.15	0.17	0.55	0	20	33.43	0.30	0.18	0.56	0	22
MAB South														
gu1302	171	65	19.05	-0.58	0.16	0.96	0	59	10.44	0.69	0.19	1.33	0	22
gu1302	171	65	32.15	0.24	0.12	0.84	0	59	33.23	0.09	0.12	0.40	0	22

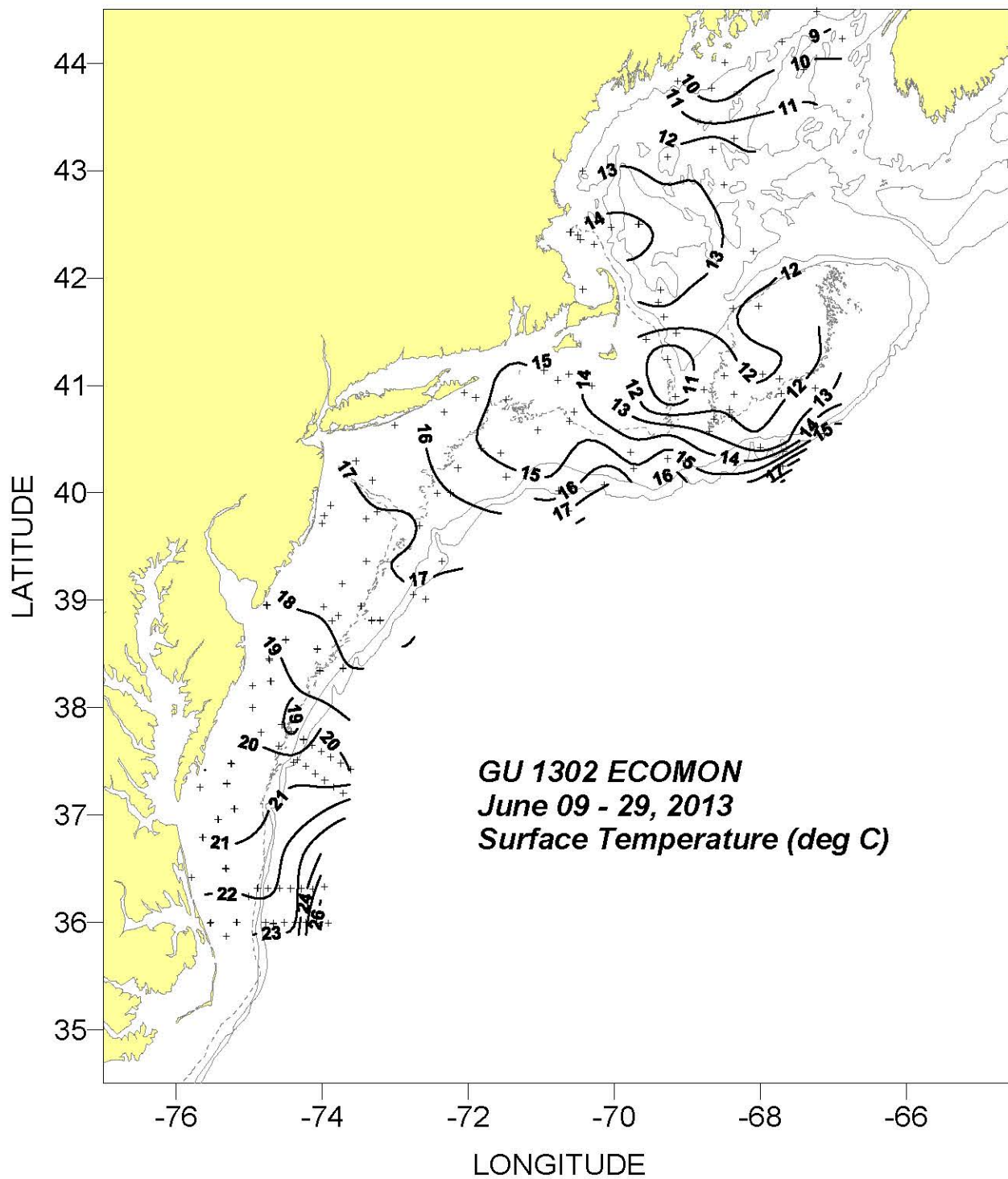
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

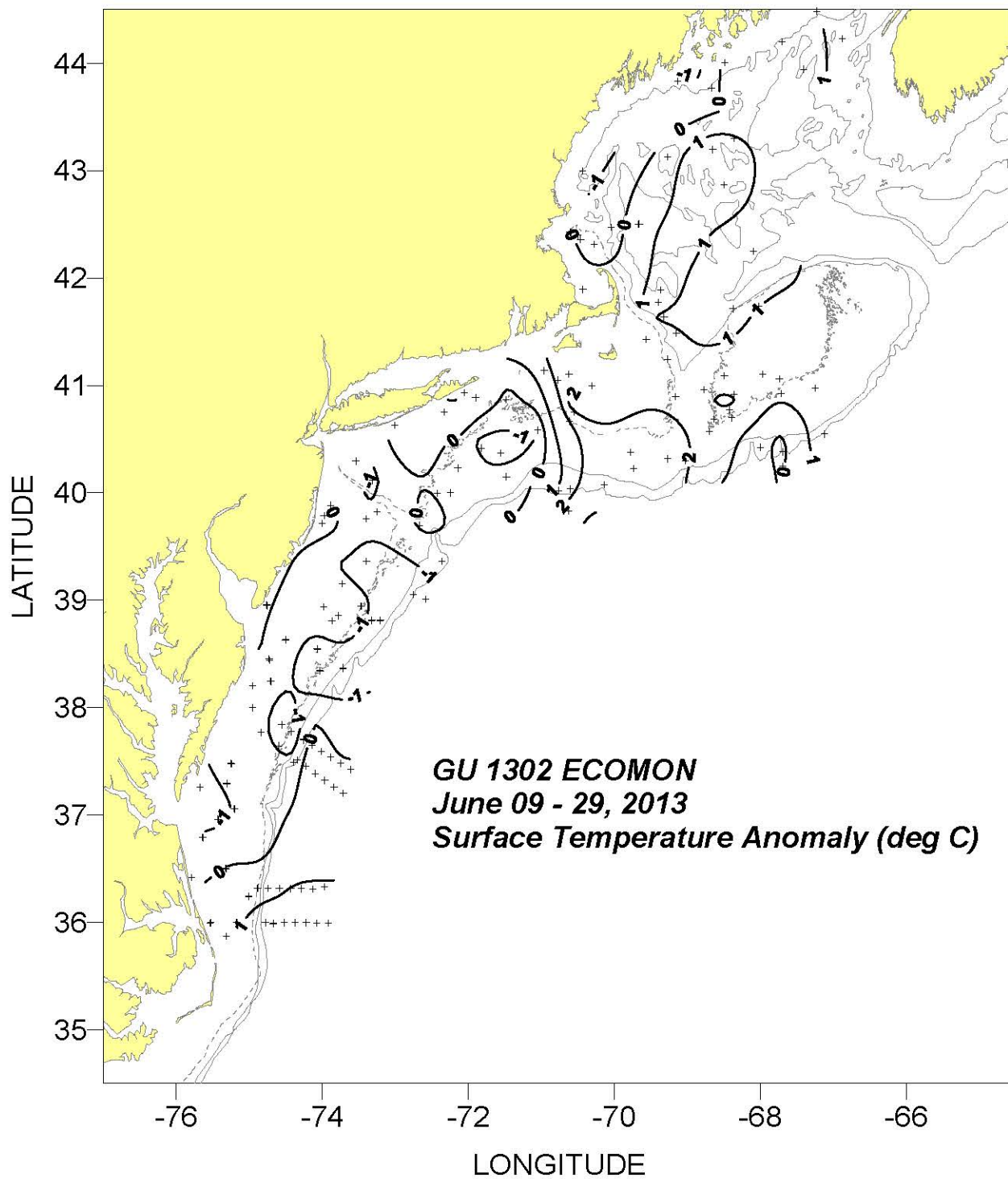
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

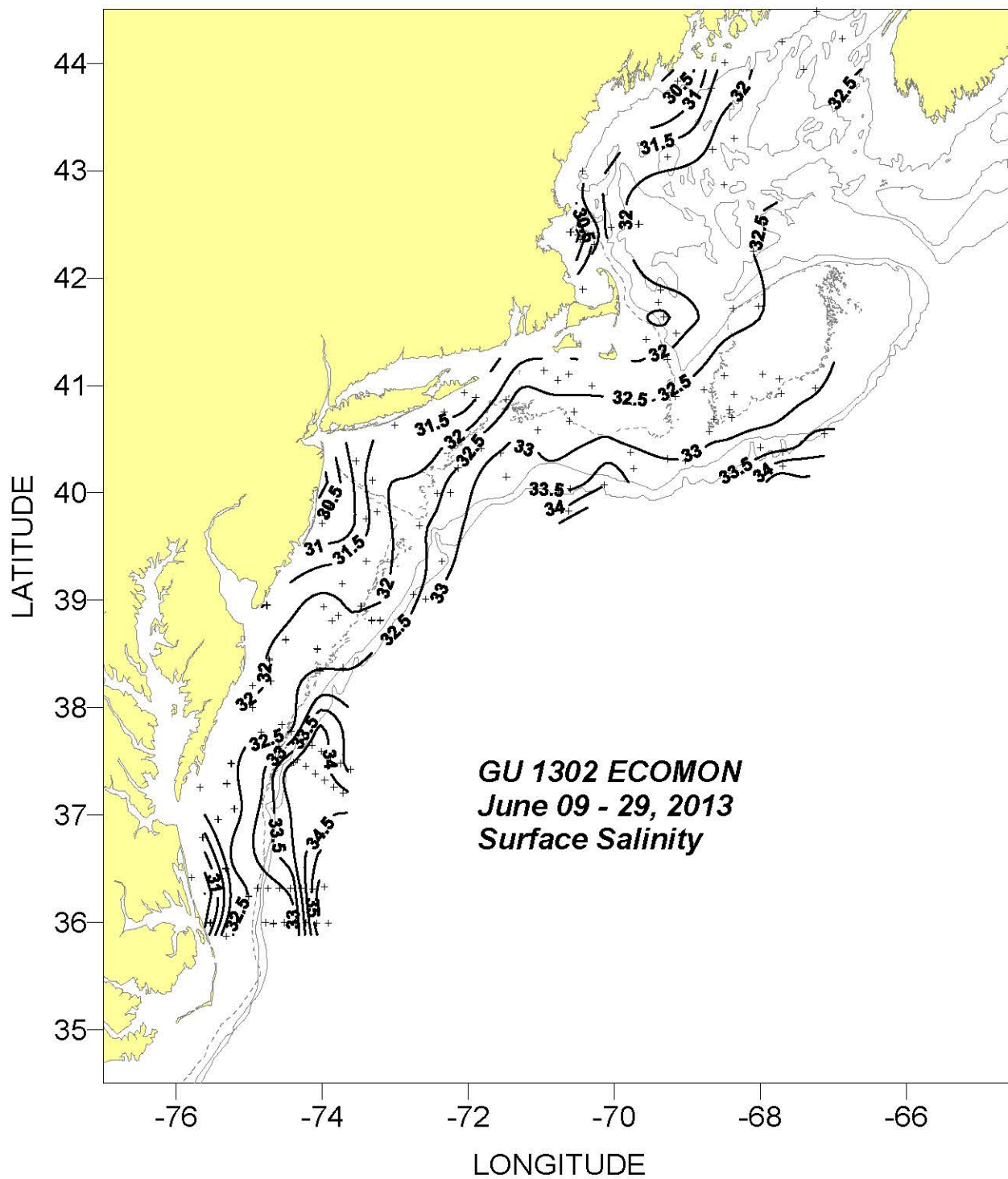
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived

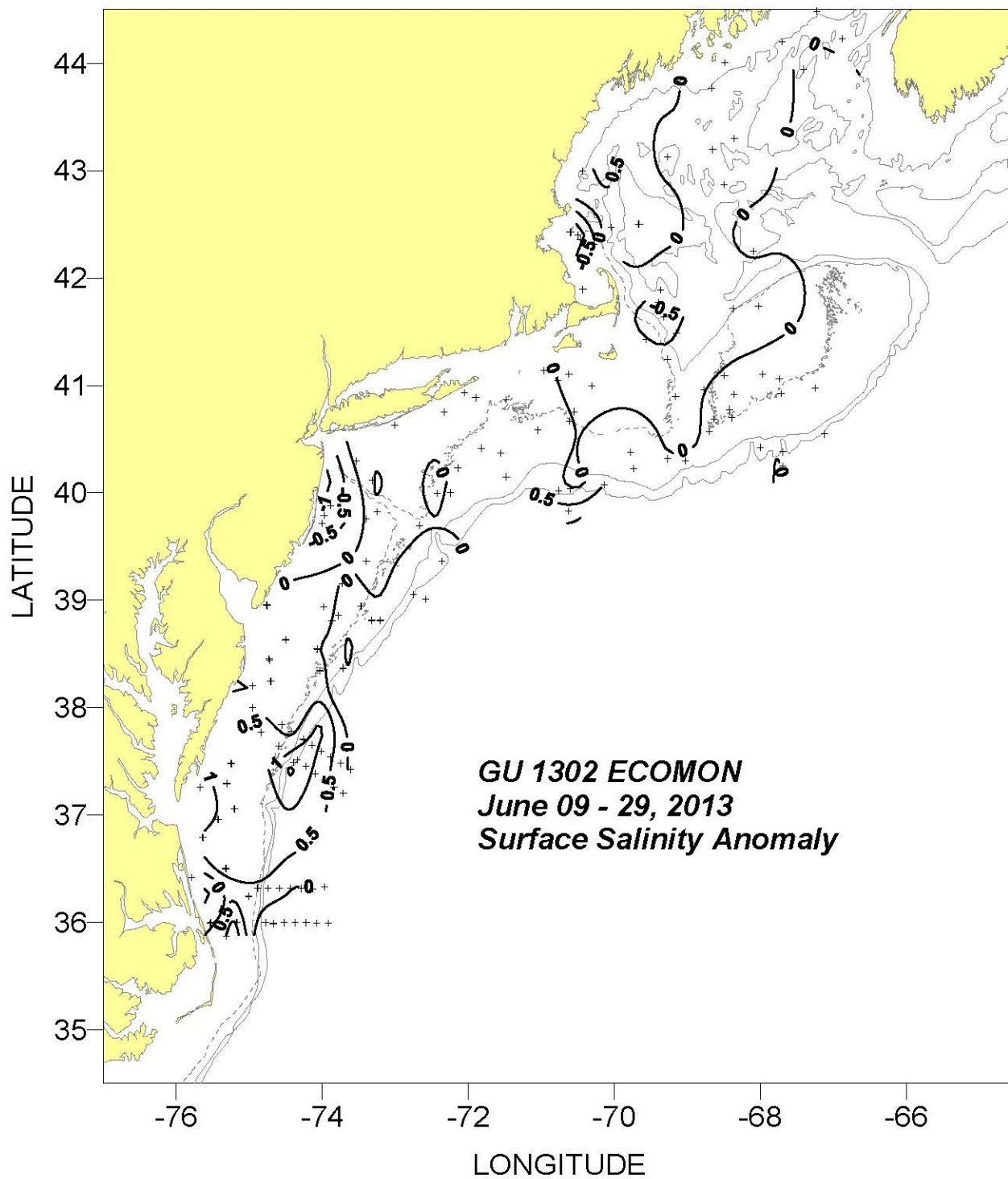
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

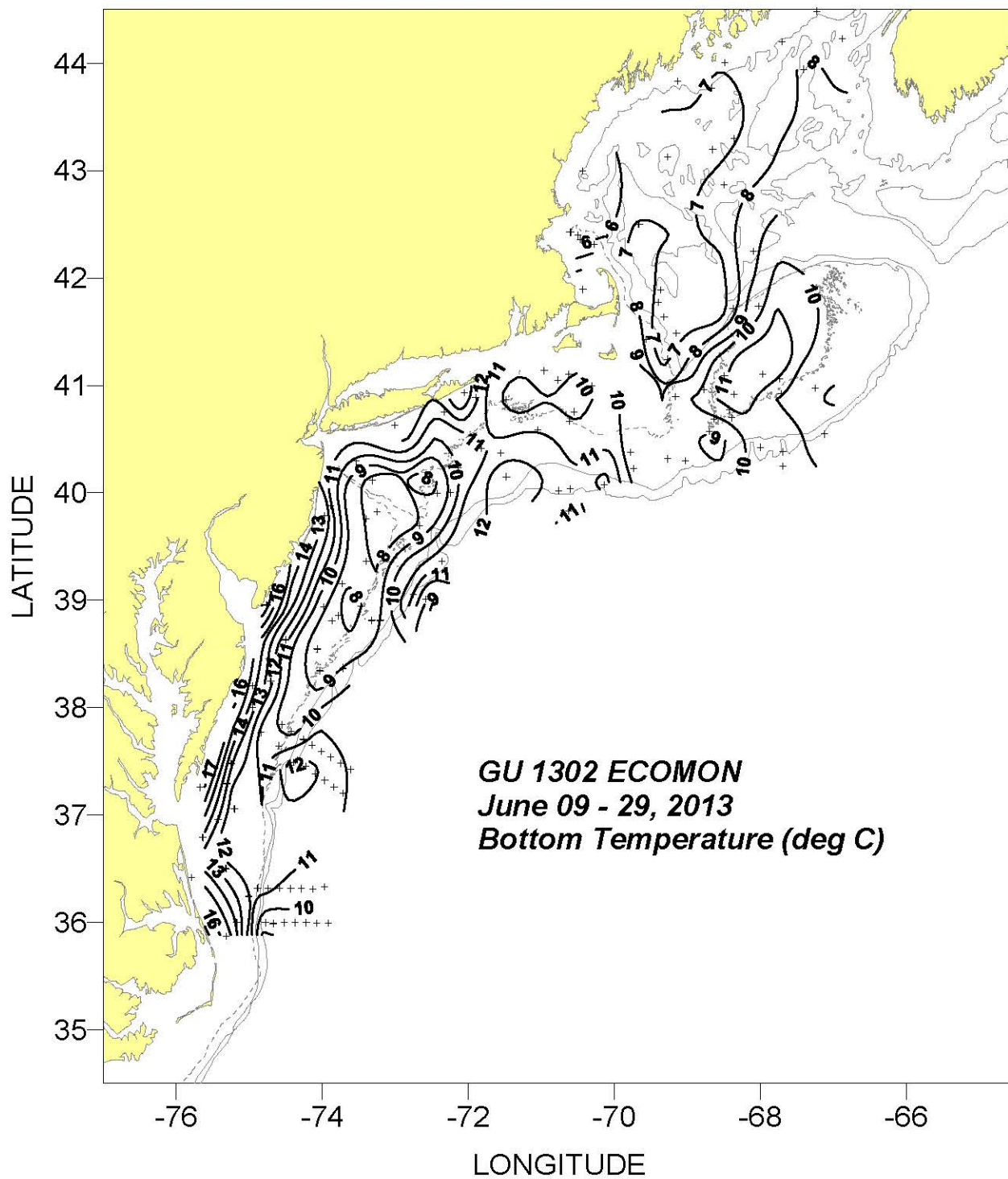
"Purpose", 2 digit code assigned by DMS to identify a unique NEFSC program survey.

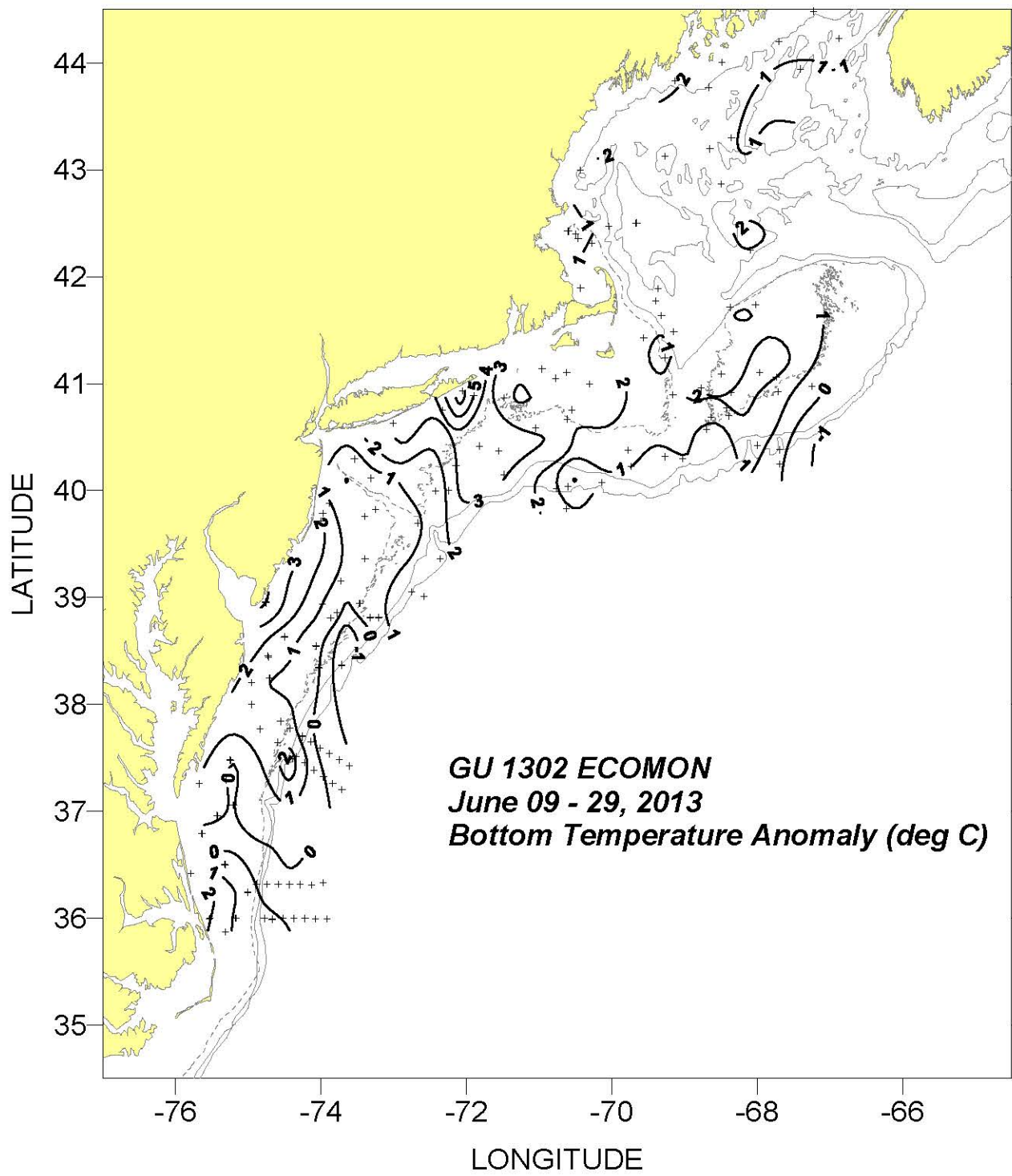


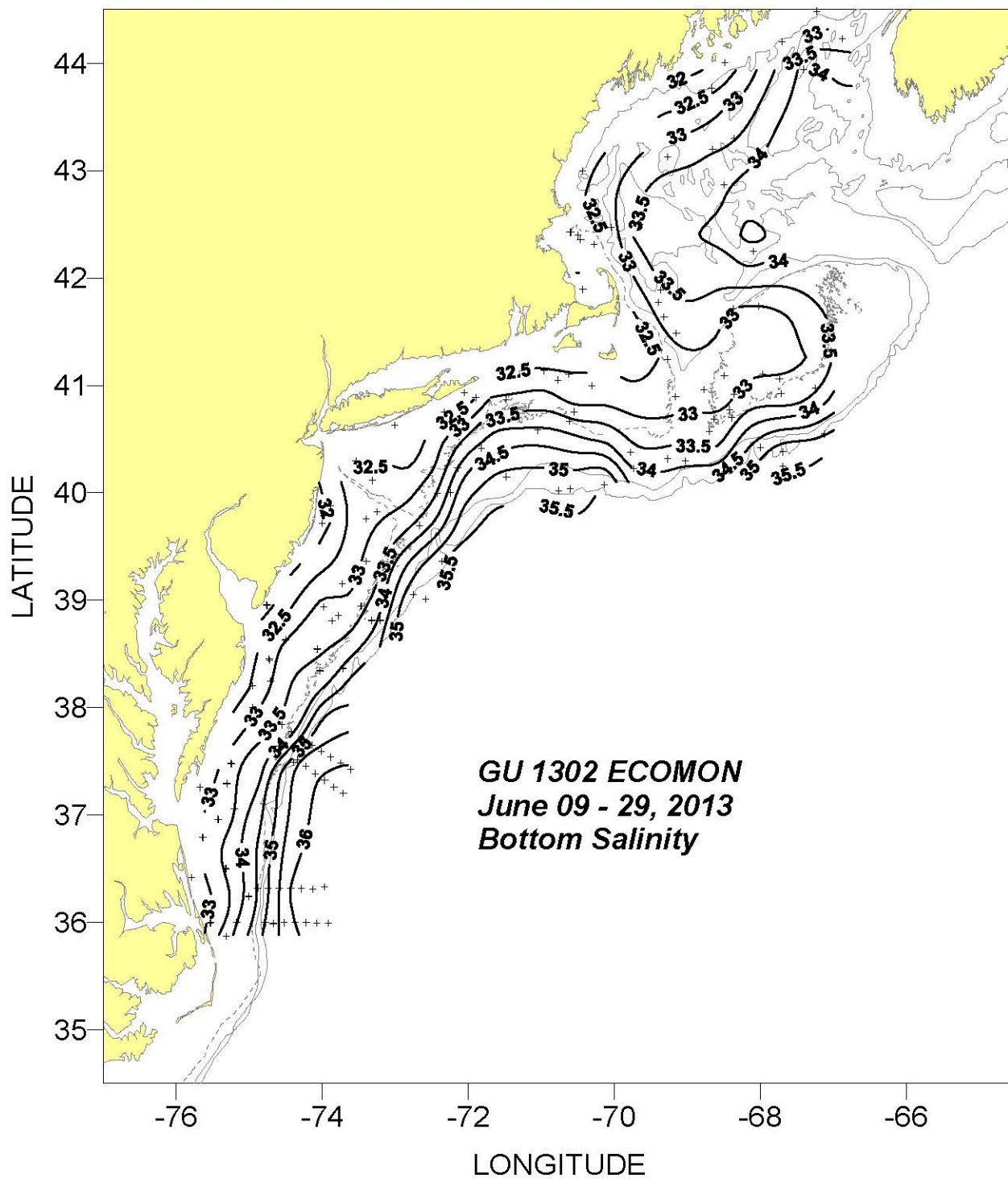


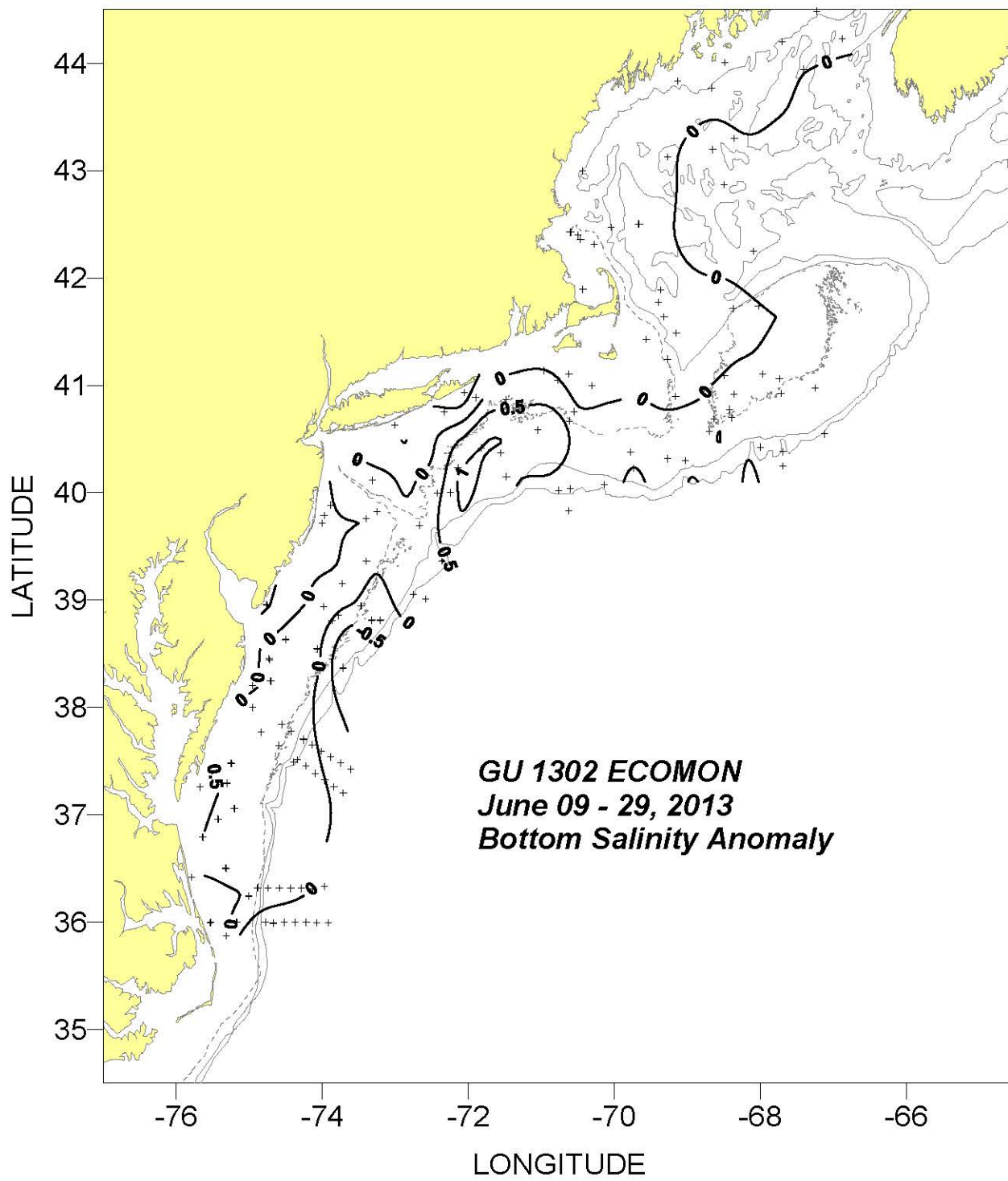












GU1302 ECOMON
June 09 - 29, 2013

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
001	1	4108.3	7057.5	9	6	2013	19:40	32	15.28	32.31	11.61	32.37	4	B
002	2	4103.0	7046.3	9	6	2013	20:58	46	14.82	32.24	8.73	32.79	4	B
003	3	4106.3	7037.1	9	6	2013	22:25	43	15.13	32.27	9.93	32.57	2	W
004	4	4059.9	7018.4	10	6	2013	0:19	40	12.91	32.41	11.00	32.60	5	B
005	5	4045.3	7033.0	10	6	2013	2:47	57	14.63	32.69	9.00	33.00	4	B
006	6	4040.1	7036.8	10	6	2013	3:47	62	15.09	32.82	9.77	33.56	4	W
007	7	4001.2	7045.5	10	6	2013	8:26	243	15.33	33.09	11.68	35.50	5	B
008	8	3949.9	7037.3	10	6	2013	11:04	328	17.83	34.90	10.16	35.30	15	W
009	9	4002.2	7036.0	10	6	2013	12:48	172	15.37	33.14	11.18	35.45	3	W
010	10	4004.5	7008.1	10	6	2013	15:34	162	17.41	33.94	12.51	35.59	5	B
011	11	4013.7	6944.0	10	6	2013	18:07	86	14.46	33.10	9.29	33.74	4	B
012	12	4022.6	6946.5	10	6	2013	19:17	75	14.54	33.08	9.60	33.68	4	B
013	13	4019.1	6916.2	10	6	2013	21:55	84	16.78	32.93	8.89	33.75	5	B
014	14	4017.9	6901.6	10	6	2013	23:25	97	14.57	32.88	9.34	34.00	5	B
015	15	4034.3	6841.6	11	6	2013	2:15	67	13.53	32.90	8.37	32.99	5	B
016	16	4041.3	6838.1	11	6	2013	3:19	57	12.12	32.81	9.79	32.91	1	B
017	17	4053.7	6909.5	11	6	2013	6:37	70	9.75	32.56	9.55	32.69	3	W
018	18	4125.7	6933.6	11	6	2013	12:16	31	11.39	31.70	8.83	32.09	4	B
019	19	4146.4	6923.5	11	6	2013	14:34	175	13.07	31.53	6.39	33.38	5	B
020	20	4153.5	6921.8	11	6	2013	15:46	206	13.64	32.16	6.79	33.53	3	B
021	21	4138.3	6919.0	11	6	2013	17:51	176	12.81	31.33	6.08	33.18	5	B
022	22	4129.3	6908.8	11	6	2013	19:38	163	12.05	31.60	6.16	33.24	4	B
023	23	4114.7	6916.2	11	6	2013	21:45	75	10.16	32.12	5.92	32.63	5	B
024	24	4057.6	6846.1	12	6	2013	1:12	66	11.26	32.86	11.23	32.86	5	B
025	25	4105.4	6829.4	12	6	2013	3:01	52	11.82	32.84	11.81	32.84	5	B
026	26	4055.0	6821.3	12	6	2013	4:54	51	11.87	32.97	11.86	32.97	4	B
027	27	4046.6	6825.3	12	6	2013	6:24	51	11.26	32.93	10.48	32.92	4	B
028	28	4041.9	6823.2	12	6	2013	7:15	65	11.34	32.87	8.75	32.89	7	B
029	29	4025.4	6759.7	12	6	2013	10:04	143	12.20	33.03	11.17	35.17	5	B
030	30	4014.8	6741.6	12	6	2013	12:30	2400	19.16	35.05	5.83	35.04	1892	W
031	31	4023.0	6741.6	12	6	2013	14:23	237	12.94	33.18	10.96	35.29	1	W
032	32	4032.9	6707.3	12	6	2013	18:00	209	15.41	33.42	9.55	35.23	7	B

GU1302 ECOMON
June 09 - 29, 2013

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
033	33	4058.6	6714.9	12	6	2013	21:34	76	11.84	32.92	8.61	33.10	4	B
034	34	4055.6	6742.9	13	6	2013	0:16	64	12.00	32.98	9.45	32.95	1	W
035	35	4103.7	6744.2	13	6	2013	1:34	55	12.19	33.00	11.98	32.99	5	B
036	36	4106.3	6757.9	13	6	2013	2:58	40	12.62	32.95	12.63	32.95	3	B
037	37	4142.9	6822.3	13	6	2013	8:11	83	12.30	32.27	5.94	32.94	6	B
038	38	4144.4	6801.4	13	6	2013	10:07	35	11.38	32.40	10.86	32.59	4	B
039	39	4215.0	6805.6	13	6	2013	14:13	187	12.89	32.59	9.16	34.82	8	B
040	40	4252.2	6829.7	13	6	2013	18:51	187	12.64	32.16	7.48	33.84	1	B
041	41	4311.9	6839.0	13	6	2013	21:28	169	13.35	32.09	6.73	33.46	5	B
042	42	4350.0	6907.8	14	6	2013	2:22	49	10.87	29.55	7.77	31.83	6	B
043	43	4346.3	6840.1	14	6	2013	4:54	125	7.82	31.94	6.67	32.55	4	W
044	44	4400.4	6829.0	14	6	2013	6:55	87	9.35	31.49	7.16	31.95	4	B
045	45	4412.0	6742.0	14	6	2013	11:10	153	9.14	32.34	7.16	33.28	1	W
046	46	4429.1	6713.5	14	6	2013	14:28	70	7.68	31.93	7.59	31.96	8	W
047	47	4413.8	6652.7	14	6	2013	16:58	189	9.59	32.35	7.38	33.48	7	B
048	48	4356.7	6724.1	14	6	2013	20:31	200	10.60	32.27	8.23	34.16	1	B
049	49	4318.0	6821.2	15	6	2013	2:31	165	12.08	32.00	6.75	33.46	1	B
050	50	4307.8	6916.2	15	6	2013	8:30	181	12.21	31.94	6.44	33.35	8	B
051	51	4259.9	7025.9	15	6	2013	14:25	98	12.57	31.55	5.38	32.33	4	W
052	52	4230.3	6939.3	15	6	2013	19:34	256	14.26	32.39	7.31	33.73	53	B
053	52	4230.2	6940.2	15	6	2013	20:07	255	13.18	32.40	7.51	33.84	1	W
054	54	4228.3	7002.4	15	6	2013	22:06	109	14.67	31.73	5.36	32.72	5	B
055	55	4225.7	7035.8	16	6	2013	1:02	89	13.93	29.93	5.22	32.47	6	B
056	55	4225.6	7036.4	16	6	2013	1:23	88	13.93	29.95	5.21	32.50	5	W
057	57	4223.9	7029.9	16	6	2013	2:30	89	14.54	29.18	5.18	32.49	5	B
058	58	4221.6	7027.6	16	6	2013	3:24	71	13.87	29.81	5.38	32.46	6	W
059	59	4219.0	7016.4	16	6	2013	4:58	36	13.37	31.09	6.69	32.19	4	W
060	60	4153.6	7025.7	16	6	2013	8:34	35	14.52	30.66	9.43	31.80	6	B
061	61	4035.1	7102.6	16	6	2013	20:43	72	14.02	32.84	11.15	34.09	4	B
062	62	4052.1	7128.8	16	6	2013	23:43	60	14.56	32.73	8.06	33.02	4	B
063	63	4053.2	7153.9	17	6	2013	2:09	35	15.47	30.92	12.71	32.90	3	B
064	64	4055.9	7203.3	17	6	2013	3:20	27	15.85	31.10	14.85	31.78	5	B

GU1302 ECOMON
June 09 - 29, 2013

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
065	65	4045.2	7219.6	17	6	2013	5:30	43	15.38	31.37	10.24	32.55	5	B
066	66	4025.0	7149.1	17	6	2013	9:07	71	14.70	32.75	10.66	34.17	4	B
067	67	4022.2	7133.3	17	6	2013	10:41	81	14.93	33.25	12.25	34.67	4	B
068	68	4009.0	7128.6	17	6	2013	12:26	88	15.07	33.29	13.13	35.23	7	B
069	69	4013.9	7208.5	17	6	2013	15:49	67	15.56	32.68	9.37	34.01	5	B
070	70	4000.1	7214.6	17	6	2013	17:40	82	16.29	32.57	10.35	34.53	4	B
071	71	3959.7	7225.5	17	6	2013	18:58	74	16.07	32.33	7.19	33.27	2	B
072	72	4037.8	7300.2	18	6	2013	0:04	21	16.77	31.28	14.92	31.55	4	B
073	73	4017.7	7332.4	18	6	2013	3:40	30	16.50	31.66	9.35	32.71	2	B
074	74	4007.0	7318.6	18	6	2013	5:58	42	16.30	31.95	7.08	32.98	5	B
075	75	3953.0	7353.1	18	6	2013	12:11	25	18.14	29.04	10.11	32.37	5	B
076	76	3947.3	7358.4	18	6	2013	13:08	20	18.04	29.59	12.17	31.96	4	B
077	77	3943.0	7400.2	18	6	2013	14:03	23	17.15	30.58	13.37	31.67	5	W
078	78	3945.6	7323.7	18	6	2013	17:10	38	17.73	31.56	7.72	32.75	4	B
079	79	3949.5	7315.1	18	6	2013	18:47	45	17.19	31.71	7.12	32.99	4	B
080	80	3941.8	7239.9	18	6	2013	22:06	70	17.30	32.49	7.20	33.32	2	B
081	81	3921.8	7221.4	19	6	2013	0:52	151	16.49	32.71	13.03	35.66	4	B
082	82	3900.6	7235.1	19	6	2013	3:46	470	17.83	32.83	6.62	35.08	2	W
083	83	3903.3	7244.9	19	6	2013	5:04	169	16.70	32.12	13.32	35.72	4	W
084	84	3921.7	7323.6	19	6	2013	9:04	50	17.05	31.76	7.31	32.92	3	W
085	85	3909.3	7343.6	19	6	2013	11:16	36	17.27	31.86	8.75	32.99	7	B
086	86	3856.2	7358.7	19	6	2013	13:07	37	17.89	32.30	9.00	33.19	7	B
087	87	3848.4	7352.1	19	6	2013	14:25	47	18.11	32.29	7.71	33.13	4	B
088	88	3851.4	7346.9	19	6	2013	15:16	47	18.10	32.15	8.07	33.17	5	B
089	89	3856.7	7328.0	19	6	2013	17:22	58	17.72	31.78	6.64	33.06	4	B
090	89	3856.8	7327.7	19	6	2013	17:34	59	17.76	31.77	6.65	33.06	6	B
091	91	3848.5	7312.6	19	6	2013	21:55	82	17.47	32.14	9.34	34.05	5	B
092	91	3848.8	7312.1	19	6	2013	22:07	81	17.42	32.16	10.11	34.30	4	B
093	93	3848.4	7319.5	19	6	2013	23:01	76	17.46	32.25	7.60	33.47	5	B
094	93	3848.8	7319.1	19	6	2013	23:15	76	17.43	32.24	7.54	33.46	4	B
095	95	3822.3	7343.1	20	6	2013	2:45	104	17.73	32.24	8.96	33.91	2	B
096	95	3821.8	7342.7	20	6	2013	3:02	109	17.73	32.34	10.08	34.29	3	B

GU1302 ECOMON
June 09 - 29, 2013

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
097	97	3820.7	7401.9	20	6	2013	5:04	65	18.21	32.28	7.87	33.38	4	B
098	97	3820.5	7401.7	20	6	2013	5:13	66	18.20	32.28	7.88	33.39	5	B
099	98	3832.9	7404.1	20	6	2013	7:04	59	18.38	32.28	8.22	33.40	6	B
100	98	3832.6	7404.0	20	6	2013	7:13	59	18.38	32.27	8.22	33.40	3	B
101	99	3837.9	7430.1	20	6	2013	9:40	36	18.41	32.21	10.98	33.08	5	B
102	99	3837.6	7430.2	20	6	2013	9:55	37	18.43	32.21	11.16	33.06	9	B
103	100	3857.4	7445.5	20	6	2013	12:52	15	18.17	31.53	18.09	31.69	3	B
104	100	3857.0	7445.4	20	6	2013	13:07	13	18.22	31.53	17.78	31.77	3	B
105	101	3827.3	7443.6	20	6	2013	16:25	33	19.79	32.14	11.92	33.08	4	B
107	101	3826.5	7443.4	20	6	2013	16:49	33	19.74	32.15	12.31	33.03	5	B
108	104	3814.8	7442.3	20	6	2013	18:16	29	19.78	32.19	11.31	33.20	3	B
109	104	3814.7	7441.9	20	6	2013	18:27	36	19.80	32.18	11.14	33.22	5	B
110	106	3812.2	7457.3	20	6	2013	20:04	22	19.36	31.58	15.74	32.13	4	B
111	106	3812.2	7457.1	20	6	2013	20:13	23	19.52	31.63	15.46	32.26	2	B
112	108	3759.9	7457.4	20	6	2013	21:52	24	19.48	32.31	13.96	32.91	2	W
113	109	3750.6	7433.3	21	6	2013	0:22	55	19.07	32.35	9.11	33.41	4	B
114	109	3750.4	7432.9	21	6	2013	0:36	56	19.05	32.38	9.13	33.44	3	W
115	110	3746.5	7425.4	21	6	2013	1:34	63	18.67	32.43	9.59	33.78	3	B
116	111	3742.2	7415.6	21	6	2013	2:45	104	20.87	35.04	13.65	35.68	1	B
117	111	3741.8	7415.4	21	6	2013	3:02	114	20.89	35.09	13.58	35.75	1	W
118	113	3739.1	7408.5	21	6	2013	4:01	198	21.28	35.32	11.60	35.46	5	B
119	114	3735.5	7400.8	21	6	2013	5:10	1400	20.40	34.22	9.51	35.21	1197	B
120	115	3732.3	7352.9	21	6	2013	6:26	251	20.03	33.73	9.29	35.19	49	B
121	116	3728.8	7344.6	21	6	2013	7:52	2000	19.93	33.44	12.46	35.59	1796	B
122	117	3725.4	7336.6	21	6	2013	9:08	2000	19.94	33.47	12.97	35.68	1797	B
123	118	3712.1	7342.6	21	6	2013	11:08	2000	22.13	34.08	13.02	35.69	1797	B
124	119	3715.6	7350.3	21	6	2013	12:25	2000	20.85	33.37	12.30	35.58	1797	B
125	120	3719.3	7357.9	21	6	2013	13:40	2000	19.75	33.38	11.34	35.42	1797	B
126	121	3723.1	7405.7	21	6	2013	15:13	1800	20.90	34.73	11.08	35.39	1597	B
127	122	3727.2	7413.2	21	6	2013	16:42	406	21.36	35.21	11.36	35.42	203	B
129	123	3730.8	7420.6	21	6	2013	18:25	228	21.16	35.15	12.81	35.65	27	B
130	124	3729.5	7423.5	21	6	2013	19:31	111	20.60	34.45	13.38	35.62	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
131	125	3738.7	7435.7	21	6	2013	21:22	57	19.32	32.62	9.15	33.48	3	B
132	126	3746.3	7450.4	21	6	2013	23:01	34	19.93	32.56	10.69	33.36	6	B
133	126	3746.1	7450.1	21	6	2013	23:10	33	19.86	32.56	10.65	33.37	4	B
134	128	3728.8	7514.9	22	6	2013	2:10	31	20.41	32.42	13.58	33.17	4	B
135	128	3728.6	7514.6	22	6	2013	2:16	31	20.40	32.41	13.32	33.23	3	B
136	130	3715.7	7540.5	22	6	2013	5:05	12	20.00	32.59	19.76	32.64	3	B
137	130	3715.5	7540.3	22	6	2013	5:15	11	19.96	32.59	19.74	32.63	3	B
138	131	3717.8	7518.5	22	6	2013	7:43	30	20.46	32.37	11.56	33.51	4	B
139	131	3717.5	7518.4	22	6	2013	7:52	32	20.50	32.36	11.53	33.51	6	B
140	132	3703.5	7512.3	22	6	2013	9:31	38	20.67	32.21	11.13	33.46	4	B
141	132	3703.3	7512.0	22	6	2013	9:43	39	20.70	32.21	11.13	33.46	6	B
142	133	3657.6	7525.7	22	6	2013	11:45	27	20.49	32.32	12.87	33.21	5	B
143	133	3657.5	7525.4	22	6	2013	11:55	27	20.54	32.30	12.44	33.23	4	B
144	134	3647.5	7538.3	22	6	2013	13:37	25	20.98	31.35	12.34	33.28	6	B
145	134	3647.4	7538.1	22	6	2013	13:45	23	21.04	31.34	12.39	33.23	7	B
146	135	3630.2	7519.4	22	6	2013	16:15	25	21.34	32.64	11.86	33.63	4	B
147	135	3630.0	7519.1	22	6	2013	16:25	24	21.44	32.63	11.94	33.63	5	B
148	136	3614.6	7500.3	22	6	2013	18:51	42	22.36	32.24	11.79	33.98	3	B
149	136	3614.3	7500.2	22	6	2013	19:01	42	22.66	32.24	11.84	34.00	4	B
150	137	3619.1	7453.3	22	6	2013	20:37	58	21.10	32.84	10.72	34.00	4	B
151	137	3619.2	7453.0	22	6	2013	20:49	61	21.79	32.90	10.59	34.00	4	B
152	138	3619.0	7444.4	22	6	2013	21:52	219	21.52	32.95	12.63	35.63	21	B
153	139	3619.1	7435.2	22	6	2013	23:06	1800	22.12	32.98	12.29	35.57	1599	B
154	140	3618.8	7425.8	23	6	2013	0:16	2000	21.90	33.02	12.07	35.54	1799	B
155	141	3618.8	7417.1	23	6	2013	1:31	2000	24.28	34.03	12.37	35.58	1797	B
156	142	3618.7	7407.8	23	6	2013	2:52	2500	24.70	35.38	10.76	35.33	2298	B
157	143	3619.9	7358.3	23	6	2013	4:22	2000	25.97	36.03	10.74	35.32	1797	B
158	144	3559.6	7354.9	23	6	2013	7:34	3000	27.75	35.89	13.19	35.35	2794	B
159	145	3559.5	7404.3	23	6	2013	9:37	1800	27.12	35.59	13.95	35.76	1597	B
160	146	3559.9	7413.1	23	6	2013	11:07	1800	22.82	32.96	12.33	35.53	1596	B
161	147	3559.8	7422.2	23	6	2013	12:25	1800	22.97	32.46	12.49	35.60	1597	B
162	148	3559.8	7431.0	23	6	2013	13:41	2000	22.18	33.00	12.33	35.58	1796	B
163	149	3559.6	7440.2	23	6	2013	14:52	1200	22.66	32.48	12.51	35.61	998	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
164	149	3559.1	7440.3	23	6	2013	15:18	1200	21.74	32.50	6.22	35.07	689	W
165	150	3559.8	7446.7	23	6	2013	16:19	383	22.88	32.40	12.99	35.67	182	B
166	150	3559.9	7446.7	23	6	2013	17:06	389	23.05	32.36	7.47	35.12	12	W
167	151	3600.1	7510.2	23	6	2013	19:28	33	22.72	33.00	14.27	33.79	4	B
168	151	3600.0	7510.7	23	6	2013	19:46	35	22.53	32.98	14.28	33.83	2	W
169	152	3552.2	7519.0	23	6	2013	21:04	29	22.85	32.86	16.03	33.91	3	B
170	153	3559.8	7531.7	23	6	2013	22:38	22	22.64	29.97	17.89	32.75	4	B
171	153	3559.5	7532.1	23	6	2013	22:55	24	22.34	30.40	17.45	32.86	2	W
172	155	3625.1	7547.2	24	6	2013	1:58	17	21.74	28.85	15.13	32.60	5	B

data in bold are from SBE9/11+ (s/n 420)

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