

Oceanography Branch CTD Data Report
CTD_REPORT_2014002GU

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DATE: September 26, 2014

Oceanography Branch CTD Data Report

CTD_REPORT_2014002GU

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

GU 14-02
AMAPPS
Data Coverage: March 11 – April 26, 2014
Georges Bank, Mid Atlantic Bight

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's GU1402 AMAPPS Survey aboard the NOAA Ship *Gordon Gunter*. Data was obtained with 3 Seabird Electronics SBE Model 19+ profiling CTDs (s/n 4493, 4758, & 7037) and a Seabird Electronics SBE Model 9/11+ CTD (s/n 2727). Sea water samples were taken for the purpose of correcting conductivity. The dissolved oxygen sensor data on SBE2727 was processed, but no calibration was performed and the data is not included in the archived records.

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/gu1402.dat>

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

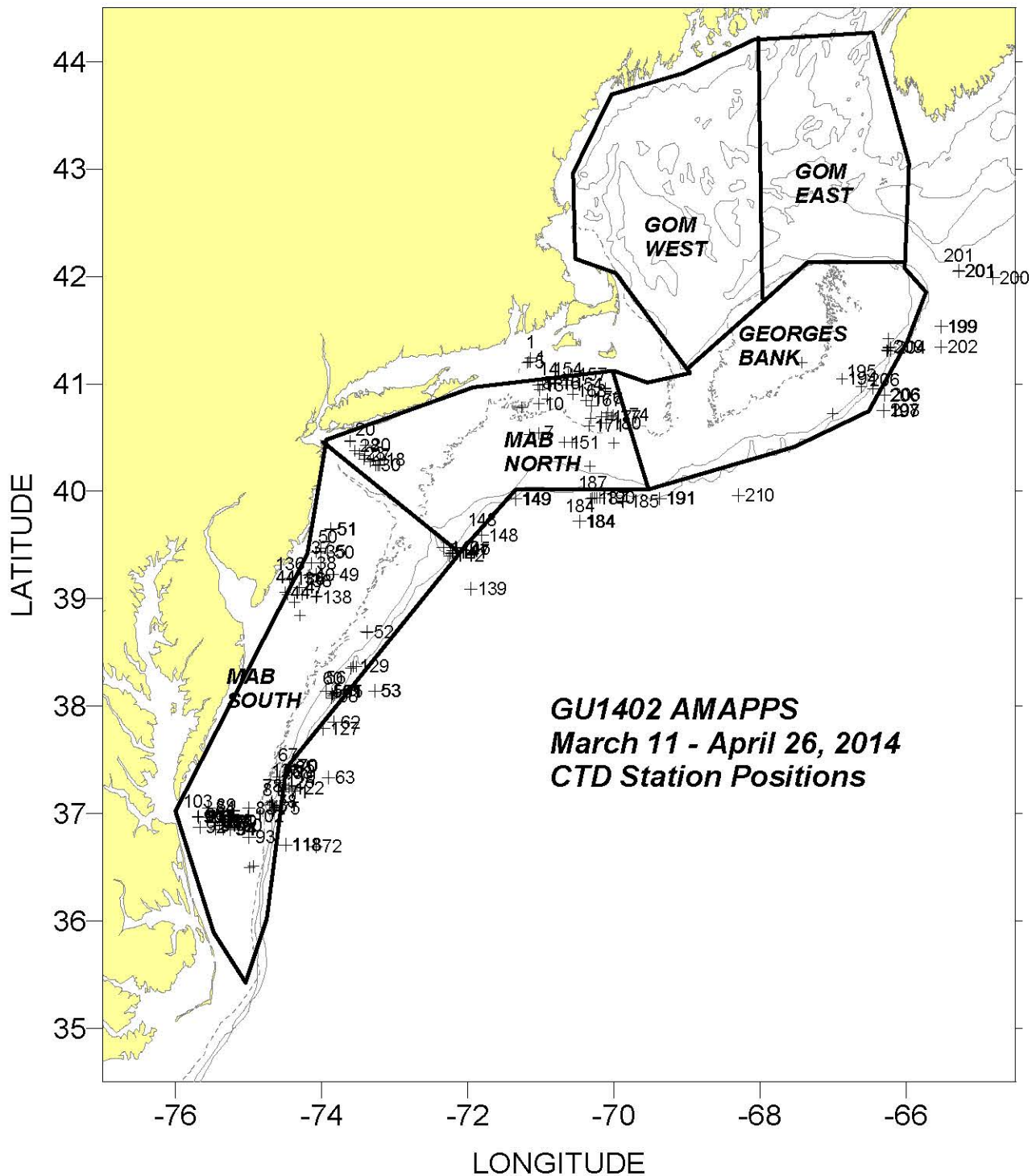
<http://www.nefsc.noaa.gov/HydroAtlas/>

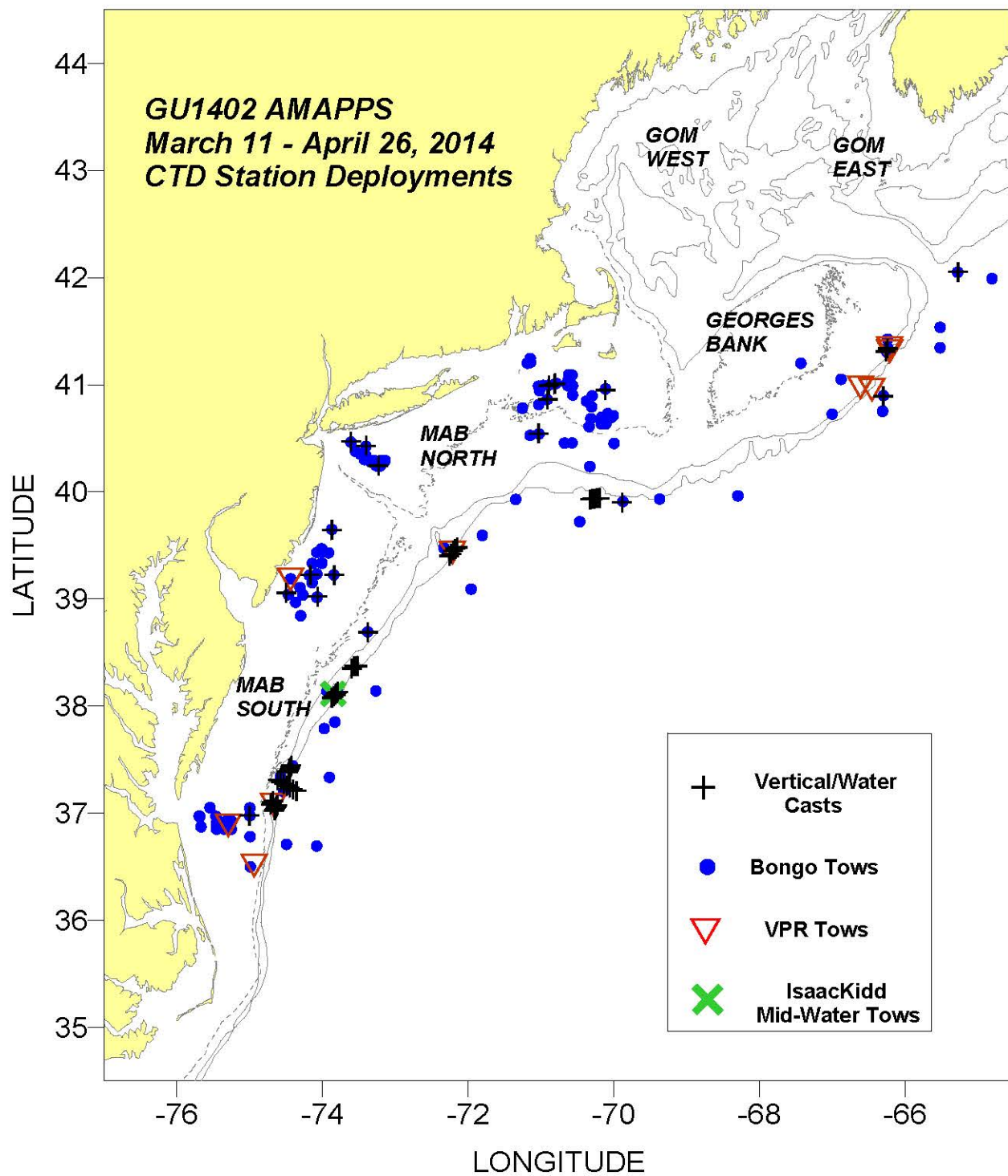
choose: **2014 Cruises**

MAR_AMAPPS_GU1402

CTD_REPORT_201402GU.pdf

Revised: September 26, 2014





**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
GU1402 AMAPPS Survey
March 11 - April 26, 2014**

CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
							Georges Bank							
gu1402	110	12	7.86	1.68	0.38	4.41	1	n/a	-	-	-	-	-	93
gu1402	110	12	33.49	0.44	0.25	1.58	1	n/a	-	-	-	-	-	93
							MAB North							
gu1402	88	55	4.31	0.20	0.16	1.45	1	51	3.70	-0.50	0.17	1.82	1	93
gu1402	88	55	32.72	0.05	0.11	0.53	1	51	32.87	-0.05	0.11	0.59	1	93
							MAB South							
gu1402	83	88	7.75	0.07	0.15	1.14	1	52	5.85	0.37	0.19	0.77	1	93
gu1402	83	88	34.01	0.69	0.11	0.44	1	52	33.54	0.39	0.12	0.35	1	93

"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.

"n/a", not applicable, data was not collected near bottom on deep stations

GU1402 AMAPPS Survey
March 11 - April 26, 2014

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	4114.7	7108.8	11	3	2014	23:42	47	2.95	32.68	3.71	32.91	6	B
2	2	4031.6	7108.9	12	3	2014	10:38	77	4.09	32.95	3.40	32.92	6	B
3	3	4112.5	7108.6	12	3	2014	15:36	36	2.61	32.67	2.93	32.74	5	B
4	5	4112.3	7109.6	12	3	2014	20:38	40	2.77	32.71	2.78	32.73	6	B
5	6	4112.1	7111.1	12	3	2014	21:47	42	3.04	32.78	3.10	32.82	4	B
6	7	4032.4	7101.6	14	3	2014	15:49	77	3.98	33.00	3.75	32.98	4	B
7	7	4032.7	7101.8	14	3	2014	16:10	77	3.75	32.96	3.72	32.98	4	V
8	8	4051.8	7054.4	14	3	2014	23:00	57	4.01	32.96	4.00	32.98	3	V
9	8	4051.7	7054.7	14	3	2014	23:13	58	3.90	32.94	3.99	32.97	5	B
10	10	4048.8	7101.8	15	3	2014	1:46	58	4.52	33.07	4.46	33.08	4	B
11	11	4056.6	7101.2	15	3	2014	4:15	53	3.45	32.87	3.57	32.89	4	B
13	12	4059.6	7058.2	15	3	2014	6:16	50	2.70	32.74	2.70	32.74	9	B
14	13	4059.2	7102.0	15	3	2014	8:58	51	2.90	32.78	2.91	32.79	9	B
15	14	4059.6	7053.4	15	3	2014	10:34	52	2.72	32.73	3.21	32.84	8	V
16	14	4059.7	7053.6	15	3	2014	10:43	52	2.71	32.73	3.18	32.84	9	B
17	16	4100.4	7048.3	15	3	2014	15:19	51	3.29	32.83	3.28	32.84	5	B
18	16	4100.3	7048.6	15	3	2014	15:31	52	3.06	32.78	3.28	32.83	3	V
19	17	4017.4	7308.3	16	3	2014	7:28	41	4.70	33.26	4.62	33.27	9	B
20	18	4017.5	7311.8	16	3	2014	9:00	40	4.33	33.13	4.57	33.26	8	B
21	19	4014.5	7312.4	16	3	2014	10:19	42	4.57	33.24	4.67	33.31	9	B
22	20	4025.5	7324.1	16	3	2014	15:40	26	3.34	32.11	2.83	32.59	4	B
23	20	4025.8	7324.0	16	3	2014	15:52	28	3.35	32.11	2.77	32.62	4	V
24	21	4027.8	7336.5	16	3	2014	19:04	22	3.50	32.19	3.54	32.78	4	B
25	21	4028.2	7336.4	16	3	2014	19:16	22	3.52	32.20	3.51	32.77	5	V
26	23	4021.0	7328.8	16	3	2014	21:31	31	3.24	32.03	2.92	32.43	6	B
27	24	4022.7	7332.8	16	3	2014	22:42	29	3.46	32.03	3.58	32.80	6	B
28	26	4018.1	7325.4	17	3	2014	1:10	28	3.19	32.24	2.89	32.58	6	B
29	27	4020.2	7324.2	17	3	2014	2:31	33	3.15	32.08	2.89	32.59	10	B
30	28	4016.8	7320.2	17	3	2014	4:04	37	3.52	32.82	3.55	32.96	9	B
31	29	4017.5	7317.4	17	3	2014	5:34	38	3.64	32.92	3.57	32.98	9	B
32	30	4014.6	7315.6	17	3	2014	7:11	40	4.12	33.08	4.02	33.11	9	B

GU1402 AMAPPS Survey
March 11 - April 26, 2014

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
33	31	4014.7	7313.7	17	3	2014	10:28	42	4.43	33.23	4.43	33.24	9	V
34	34	3928.0	7400.6	17	3	2014	23:23	26	3.24	32.61	3.22	32.60	7	B
35	35	3926.3	7400.8	18	3	2014	1:32	27	3.44	32.69	3.41	32.71	9	B
36	36	3926.0	7404.6	18	3	2014	3:04	23	3.10	32.43	3.09	32.42	10	B
37	37	3920.0	7400.4	18	3	2014	4:41	30	3.74	32.97	3.72	32.95	9	B
38	38	3919.8	7408.3	18	3	2014	6:25	25	3.29	32.74	3.30	32.74	9	B
39	39	3913.9	7404.7	18	3	2014	8:03	28	3.75	33.08	3.75	33.09	8	B
40	40	3913.2	7410.8	18	3	2014	9:36	27	3.25	32.75	3.25	32.77	6	B
41	40	3913.4	7409.8	18	3	2014	10:07	31	3.27	32.73	3.26	32.78	9	V
42	41	3900.8	7404.5	18	3	2014	17:07	41	4.17	33.40	4.12	33.40	7	B
45	43	3902.4	7428.0	18	3	2014	22:07	20	3.41	32.83	3.40	32.86	4	B
46	44	3903.4	7429.9	18	3	2014	23:08	22	3.37	32.82	3.36	32.82	7	V
47	45	3858.1	7422.1	19	3	2014	2:13	30	3.56	33.04	3.57	33.04	8	B
48	46	3902.2	7416.0	19	3	2014	4:09	30	3.67	33.10	3.67	33.10	8	B
49	47	3906.3	7418.4	19	3	2014	5:19	26	3.35	32.87	3.35	32.88	9	B
50	48	3909.0	7408.5	19	3	2014	7:10	28	3.86	33.15	3.85	33.15	9	B
51	49	3913.4	7350.6	19	3	2014	10:28	33	4.49	33.40	4.49	33.51	9	B
52	49	3913.4	7350.3	19	3	2014	10:40	34	4.53	33.53	4.73	33.61	7	V
53	50	3925.8	7355.0	19	3	2014	15:45	29	4.05	33.18	4.04	33.20	4	B
54	51	3938.9	7352.3	19	3	2014	22:25	28	4.00	33.25	4.00	33.27	3	B
55	51	3938.6	7352.2	19	3	2014	22:37	29	3.98	33.24	3.99	33.25	5	V
56	52	3841.3	7322.5	20	3	2014	10:19	75	8.85	34.22	8.90	34.37	1	V
57	52	3841.5	7322.7	20	3	2014	10:28	74	8.90	34.35	8.87	34.36	8	B
58	53	3808.4	7315.9	20	3	2014	15:43	2200	10.50	34.82	11.88	35.37	1998	B
60	54	3808.2	7356.3	21	3	2014	0:25	113	11.19	34.99	11.13	35.08	9	B
1	55	3807.9	7347.2	21	3	2014	3:35	153	11.34	35.02	11.29	35.10	10	W
2	56	3807.3	7348.2	21	3	2014	4:13	357	11.24	35.00	9.58	35.24	2	W
3	57	3806.4	7349.2	21	3	2014	6:07	801	11.14	34.97	5.07	35.00	65	W
4	58	3805.5	7350.7	21	3	2014	7:33	349	11.06	34.90	9.23	35.21	8	W
5	59	3804.6	7352.0	21	3	2014	8:15	155	11.48	35.07	11.55	35.17	8	W
61	60	3806.8	7351.0	21	3	2014	9:16	459	11.67	35.16	11.39	35.13	307	IKMT

GU1402 AMAPPS Survey
March 11 - April 26, 2014

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
62	61	3808.0	7347.9	21	3	2014	10:22	138	11.10	34.98	11.26	35.10	8	B
63	62	3751.0	7349.7	21	3	2014	15:58	1397	12.51	35.32	11.45	35.35	1194	B
64	63	3720.0	7354.3	21	3	2014	23:04	1498	20.19	36.06	12.28	35.55	1292	B
6	64	3726.7	7425.5	22	3	2014	2:25	172	13.48	35.55	11.53	35.19	4	W
7	65	3725.8	7426.2	22	3	2014	2:55	334	13.35	35.51	9.83	35.24	43	W
8	66	3724.7	7427.0	22	3	2014	3:34	776	12.78	35.40	5.21	35.00	27	W
9	67	3723.9	7427.5	22	3	2014	4:41	436	12.76	35.40	7.81	35.13	28	W
10	68	3722.8	7428.2	22	3	2014	5:28	188	12.60	35.37	11.54	35.20	6	W
65	70	3726.6	7424.6	22	3	2014	10:43	224	12.91	35.45	11.42	35.16	21	B
66	71	3712.0	7432.1	22	3	2014	16:04	158	13.15	35.49	11.75	35.24	1	B
67	72	3641.6	7404.8	22	3	2014	21:58	2400	19.81	36.20	11.76	35.49	2196	B
11	73	3704.5	7437.2	23	3	2014	2:47	103	12.62	35.39	11.64	35.23	8	W
12	74	3703.7	7437.9	23	3	2014	3:13	517	12.50	35.37	6.04	35.04	23	W
13	75	3703.0	7438.5	23	3	2014	4:22	500	12.42	35.35	6.80	35.07	19	W
14	76	3702.1	7439.0	23	3	2014	5:16	274	12.29	35.34	10.09	35.23	4	W
15	77	3701.5	7439.5	23	3	2014	5:50	102	12.09	35.32	11.46	35.21	4	W
16	78	3706.8	7440.7	23	3	2014	6:50	128	12.36	35.39	11.48	35.20	4	W
17	79	3705.9	7441.6	23	3	2014	7:20	335	12.23	35.32	10.15	35.21	1	W
18	80	3704.8	7442.5	23	3	2014	8:04	103	12.33	35.32	11.70	35.24	6	W
69	81	3704.6	7440.3	23	3	2014	9:01	563	12.46	35.36	11.21	35.16	361	VPR
71	83	3702.9	7459.8	23	3	2014	12:26	46	8.09	34.21	8.60	34.54	5	B
72	84	3703.1	7532.6	23	3	2014	15:40	27	6.23	33.18	5.71	33.38	4	B
73	85	3658.1	7527.7	23	3	2014	22:15	26	6.22	33.42	6.20	33.42	4	B
74	86	3655.0	7527.0	24	3	2014	0:48	28	6.47	33.48	6.42	33.45	5	B
75	87	3655.0	7523.9	24	3	2014	2:13	31	6.52	33.58	6.51	33.58	5	B
76	88	3655.1	7520.9	24	3	2014	3:22	33	6.68	33.72	6.68	33.72	5	B
77	89	3655.9	7518.6	24	3	2014	4:25	34	6.86	33.82	6.86	33.82	5	B
78	90	3655.4	7514.6	24	3	2014	5:54	37	7.14	33.88	7.14	33.87	4	B
79	91	3658.0	7541.1	24	3	2014	10:53	20	5.65	32.95	5.62	32.94	4	B
80	92	3652.3	7540.0	24	3	2014	15:37	24	5.73	32.87	5.67	32.99	5	B
81	93	3646.8	7459.6	24	3	2014	20:37	34	7.68	34.08	7.72	34.12	4	B

GU1402 AMAPPS Survey
March 11 - April 26, 2014

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
82	94	3651.0	7515.2	24	3	2014	23:28	32	7.19	33.87	7.05	33.87	4	B
83	95	3651.1	7520.9	25	3	2014	0:41	27	6.81	33.73	6.66	33.75	5	B
84	96	3651.0	7527.2	25	3	2014	1:52	24	6.40	33.52	6.39	33.51	4	B
85	97	3653.2	7527.2	25	3	2014	3:16	30	6.16	33.50	6.12	33.50	4	B
86	98	3653.5	7524.0	25	3	2014	3:58	31	6.60	33.70	6.73	33.71	5	B
87	99	3653.4	7521.3	25	3	2014	5:13	31	6.71	33.79	6.72	33.79	4	B
88	100	3653.4	7517.8	25	3	2014	6:19	32	6.95	33.84	6.90	33.84	3	B
89	101	3653.1	7517.6	25	3	2014	7:10	32	6.96	33.84	6.97	33.84	11	VPR
19	102	3658.6	7500.1	25	3	2014	9:55	43	8.19	34.33	8.20	34.38	4	W
90	102	3658.5	7459.8	25	3	2014	10:03	40	8.27	34.40	8.25	34.40	4	B
91	103	3658.3	7541.5	25	3	2014	14:48	19	5.72	32.97	5.72	33.02	4	B
92	116	3630.5	7456.2	28	3	2014	6:13	47	9.02	34.67	9.30	34.75	8	VPR
93	117	3629.9	7459.4	28	3	2014	10:26	42	8.83	34.59	9.04	34.68	5	B
94	118	3642.5	7429.5	28	3	2014	15:49	1359	14.38	35.73	11.24	35.16	1154	B
95	119	3720.4	7434.6	28	3	2014	22:37	98	10.81	34.96	11.05	35.10	3	B
23	120	3712.5	7421.4	29	3	2014	2:01	1504	12.51	35.31	4.04	34.96	107	W
24	121	3713.4	7424.3	29	3	2014	3:54	1180	12.11	35.32	4.31	34.97	1	W
25	122	3714.3	7426.8	29	3	2014	5:35	1038	11.96	35.26	4.57	34.98	48	W
26	123	3715.4	7429.3	29	3	2014	7:00	362	11.96	35.28	8.65	35.17	3	W
27	124	3716.4	7431.8	29	3	2014	7:41	135	10.25	34.94	11.09	35.11	3	W
28	125	3717.4	7434.3	29	3	2014	8:13	98	9.65	34.69	10.62	34.99	5	W
29	126	3718.6	7436.8	29	3	2014	8:41	92	8.57	34.46	10.57	34.99	6	W
96	127	3747.4	7358.5	29	3	2014	15:48	845	12.21	35.22	12.12	35.43	641	B
30	128	3821.1	7335.7	30	3	2014	1:36	146	9.67	34.39	11.49	35.16	4	W
31	129	3822.3	7333.7	30	3	2014	2:20	438	9.74	34.44	7.05	35.08	1	W
32	130	3822.3	7331.2	30	3	2014	5:30	988	8.56	34.16	4.75	34.99	4	W
97	136	3911.2	7426.3	31	3	2014	1:06	21	4.08	32.26	4.02	32.31	5	B
98	136	3910.7	7426.3	31	3	2014	1:47	21	4.23	32.17	4.09	32.28	6	VPR
99	137	3850.5	7417.9	31	3	2014	15:36	41	4.97	33.36	4.87	33.47	5	B
100	138	3901.0	7404.2	31	3	2014	22:37	38	5.24	33.53	5.14	33.54	4	B
33	138	3901.3	7404.0	31	3	2014	22:55	38	5.22	33.53	5.18	33.55	4	W

GU1402 AMAPPS Survey
March 11 - April 26, 2014

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
101	139	3905.4	7157.5	1	4	2014	15:46	2274	9.25	34.44	12.24	35.53	2069	B
102	140	3928.6	7219.9	1	4	2014	23:10	217	7.70	33.85	11.78	35.39	15	B
103	141	3925.7	7213.0	2	4	2014	1:15	630	8.30	34.04	11.77	35.37	429	VPR
34	142	3924.1	7215.4	2	4	2014	4:46	230	8.39	34.08	11.27	35.41	3	W
35	143	3925.3	7213.8	2	4	2014	5:25	349	8.28	34.07	7.37	35.10	3	W
36	144	3927.0	7212.2	2	4	2014	6:16	1153	8.15	33.89	4.39	34.97	88	W
37	145	3928.2	7210.4	2	4	2014	7:58	750	8.03	33.91	5.01	34.99	1	W
38	146	3928.8	7208.8	2	4	2014	9:10	448	8.02	33.91	6.74	35.40	15	W
104	147	3926.9	7211.9	2	4	2014	10:18	1257	8.49	34.10	12.47	35.49	1055	B
105	148	3935.5	7148.3	2	4	2014	15:49	956	9.25	34.39	12.20	35.49	753	B
106	149	3955.7	7120.8	2	4	2014	22:40	388	6.66	33.52	12.38	35.49	182	B
107	150	4100.8	7048.2	9	4	2014	10:11	51	3.58	32.63	3.15	32.76	8	W
108	150	4100.7	7047.5	9	4	2014	10:45	50	3.59	32.56	3.10	32.77	7	B
109	151	4027.3	7040.5	9	4	2014	15:33	79	5.46	32.94	4.23	33.07	7	B
110	152	4105.6	7037.1	10	4	2014	0:15	43	4.12	32.58	3.05	32.69	6	B
111	153	4101.9	7037.9	10	4	2014	3:16	46	3.90	32.64	3.13	32.74	5	B
112	154	4059.5	7037.9	10	4	2014	4:00	46	3.97	32.65	3.19	32.77	4	B
113	155	4054.2	7033.9	10	4	2014	6:31	51	3.94	32.70	3.24	32.77	5	B
114	156	4059.5	7033.9	10	4	2014	7:18	49	3.88	32.58	3.08	32.73	5	B
115	157	4105.4	7034.4	10	4	2014	9:46	41	4.42	32.41	3.10	32.64	4	B
116	158	4027.4	7034.4	10	4	2014	16:22	76	5.91	32.95	4.27	33.06	6	B
119	166	4053.7	7017.8	12	4	2014	0:48	43	4.50	32.71	3.64	32.71	5	B
120	167	4050.8	7022.5	12	4	2014	2:49	50	4.53	32.68	3.53	32.80	7	B
121	168	4047.5	7018.2	12	4	2014	3:40	45	4.73	32.73	3.57	32.78	4	B
123	170	4041.0	7018.9	12	4	2014	7:16	50	4.72	32.72	3.88	32.87	7	B
124	171	4036.5	7020.3	12	4	2014	8:22	60	4.85	32.73	4.08	32.97	6	B
127	173	4057.6	7006.7	12	4	2014	16:08	21	5.46	32.69	4.94	32.69	5	B
128	173	4057.0	7006.8	12	4	2014	16:28	20	5.48	32.69	4.96	32.69	6	W
129	174	4042.7	7000.3	12	4	2014	22:38	43	5.83	32.84	4.51	32.85	6	B
130	175	4041.7	7002.1	12	4	2014	23:13	45	5.80	32.82	4.33	32.85	4	B
131	176	4043.8	7005.0	13	4	2014	0:46	41	5.86	32.72	4.29	32.79	2	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
132	177	4041.6	7006.1	13	4	2014	1:28	46	5.61	32.72	3.98	32.80	5	B
133	178	4038.2	7010.4	13	4	2014	3:16	51	5.73	32.77	4.02	32.90	25	B
134	179	4041.7	7010.0	13	4	2014	4:01	46	5.74	99.99	3.86	32.79	16	B
135	180	4038.0	7006.4	13	4	2014	5:54	50	5.58	32.73	3.98	32.85	3	B
136	181	4027.1	6959.8	13	4	2014	8:01	73	6.31	32.94	4.32	33.05	6	B
137	182	4014.1	7019.7	13	4	2014	10:28	102	6.38	32.99	6.62	33.58	4	B
138	184	3943.2	7028.0	13	4	2014	15:41	1913	9.54	33.93	12.34	35.54	1710	B
141	185	3954.0	6953.1	14	4	2014	0:13	655	12.70	35.16	12.42	35.48	624	W
140	185	3954.5	6952.5	13	4	2014	23:43	603	12.70	35.26	9.13	35.19	289	B
39	186	3955.8	7019.2	14	4	2014	4:55	454	10.90	99.99	8.06	35.13	9	W
40	187	3956.1	7017.5	14	4	2014	5:52	578	11.56	34.57	6.17	35.04	8	W
41	188	3956.2	7015.9	14	4	2014	6:55	896	10.21	34.27	4.52	34.98	2	W
42	189	3956.4	7014.0	14	4	2014	8:19	589	8.91	33.77	5.95	35.03	1	W
43	190	3956.4	7011.6	14	4	2014	9:31	423	8.64	99.99	7.54	35.07	1	W
142	191	3955.9	6922.2	14	4	2014	16:51	257	8.38	33.33	12.46	35.54	55	B
143	192	4046.8	7115.3	15	4	2014	10:40	62	5.93	32.69	4.00	32.99	5	B
144	193	4112.0	6725.8	18	4	2014	10:34	45	6.11	33.15	6.12	33.16	3	B
145	194	4103.0	6652.7	18	4	2014	15:37	81	6.35	32.89	5.59	32.89	8	B
146	195	4058.3	6636.6	19	4	2014	1:55	147	11.90	34.75	12.19	35.45	15	VPR
147	196	4057.1	6627.3	19	4	2014	4:49	1080	14.24	35.55	12.43	35.38	977	VPR
148	197	4045.0	6618.5	19	4	2014	10:03	2303	16.36	35.64	11.32	35.42	2099	B
149	198	4118.3	6615.0	19	4	2014	15:33	132	8.13	33.63	11.30	35.31	4	B
150	198	4118.6	6615.7	19	4	2014	15:52	124	8.14	33.67	8.89	34.10	76	W
151	199	4132.1	6531.0	19	4	2014	22:45	2347	6.81	33.04	10.83	35.36	2132	B
152	200	4159.4	6448.4	20	4	2014	12:04	2080	10.11	34.36	11.38	35.42	1878	B
153	201	4203.0	6516.6	20	4	2014	15:34	1463	10.44	34.70	12.43	35.55	1260	B
154	201	4203.2	6516.3	20	4	2014	16:01	1462	10.40	34.64	10.97	34.92	1429	W
155	202	4120.7	6531.2	20	4	2014	23:25	2614	7.87	33.59	12.39	35.51	2412	B
156	203	4118.5	6612.6	21	4	2014	4:10	234	5.83	33.01	10.36	35.26	71	VPR
157	204	4120.5	6612.8	21	4	2014	6:49	585	5.81	33.00	10.92	35.09	424	VPR
158	205	4125.5	6614.4	21	4	2014	10:15	111	5.16	32.41	7.99	34.06	8	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
159	206	4053.9	6617.7	21	4	2014	15:31	2163	16.77	35.84	11.11	35.38	1960	B
160	206	4053.6	6617.8	21	4	2014	15:52	2140	16.52	35.58	12.33	34.82	2093	W
161	207	4043.5	6700.1	21	4	2014	23:32	118	10.71	34.35	12.47	35.26	11	B
162	208	4045.2	6618.4	22	4	2014	10:01	2350	19.00	36.46	12.20	35.45	2148	B
163	209	4120.7	6614.4	22	4	2014	15:10	128	5.92	32.72	7.49	33.75	6	B
165	209	4120.3	6614.2	22	4	2014	15:46	130	6.02	32.69	5.71	32.86	100	W
166	210	3957.7	6817.7	26	4	2014	11:58	2257	22.56	36.47	14.23	35.84	2055	B

Deployment codes: B=bongo cast; W=water cast; V=vertical cast; IKMT=Isaac-Kidd Mid-Water Trawl; and VPR=Video Plankton Recorder tow

Bold records: a SBE 9/11+ was deployed