

*Oceanography Branch CTD Data Report*  
*CTD\_REPORT\_2015006GU*

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DATE: January 14, 2016

# Oceanography Branch CTD Data Report

CTD\_REPORT\_2015006GU

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

GU 15-06  
ECOMON  
Data Coverage: October 12-25, 2015  
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 GU1506 ECOMON Survey aboard the NOAA Ship *Gordon Gunter*. Data was obtained with a Seabird Electronics SBE Model 19+ V2 profiling CTD (s/n 7142) and a Seabird Electronics SBE Model 9/11+ CTD (s/n 0420). Sea water samples were taken for the purpose of correcting conductivity.

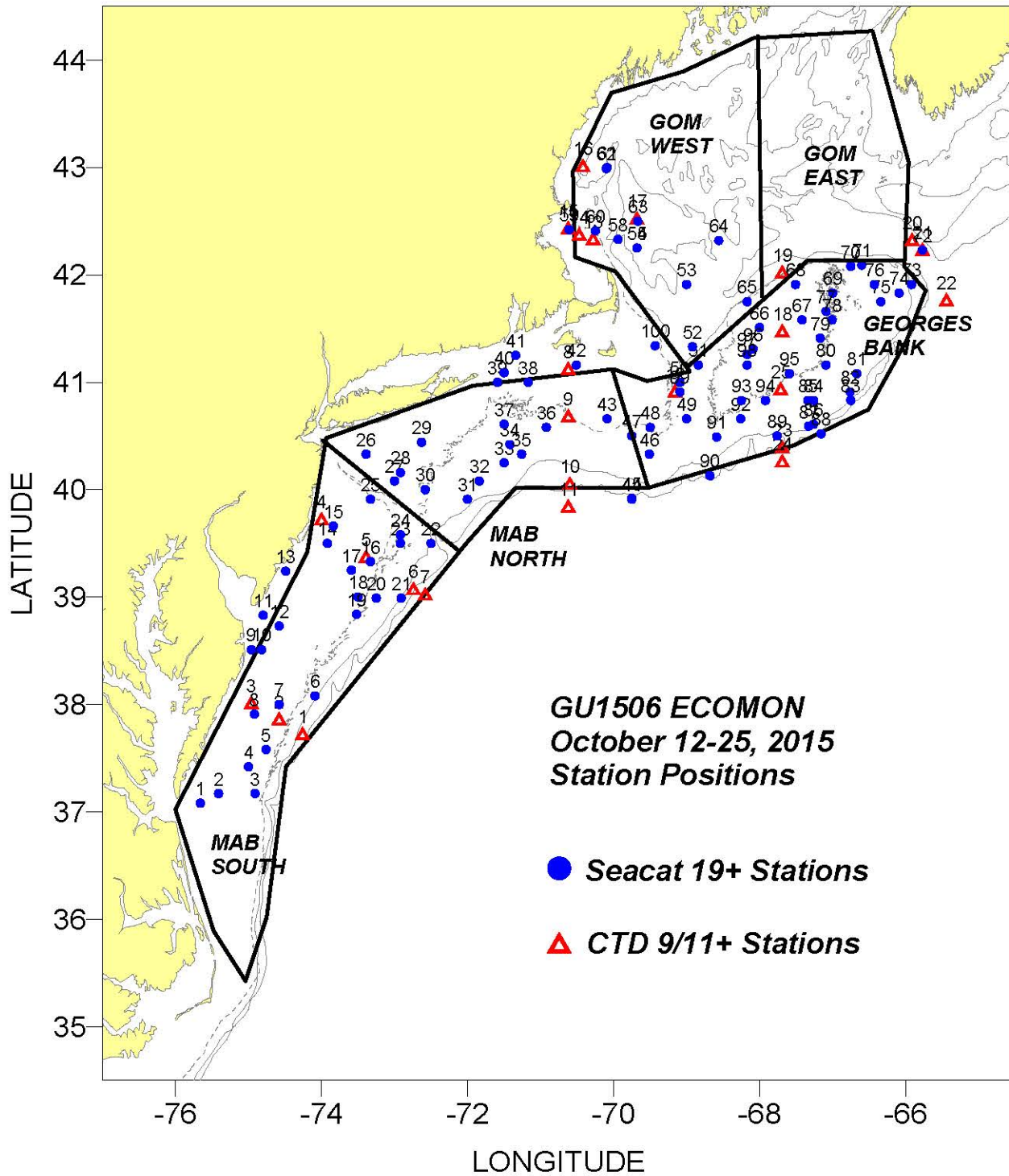
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:  
[ftp://ftp.nefsc.noaa.gov/pub/hydro/nodc\\_files/gu1506.dat](ftp://ftp.nefsc.noaa.gov/pub/hydro/nodc_files/gu1506.dat)

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

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

choose: **2015 Cruises**  
**OCT\_ECOMON\_GU1506**  
**CTD\_REPORT\_2015006GU.pdf**

Revised: January 14, 2016



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the  
GU1506 ECOMON Survey  
October 12 - 25, 2015**

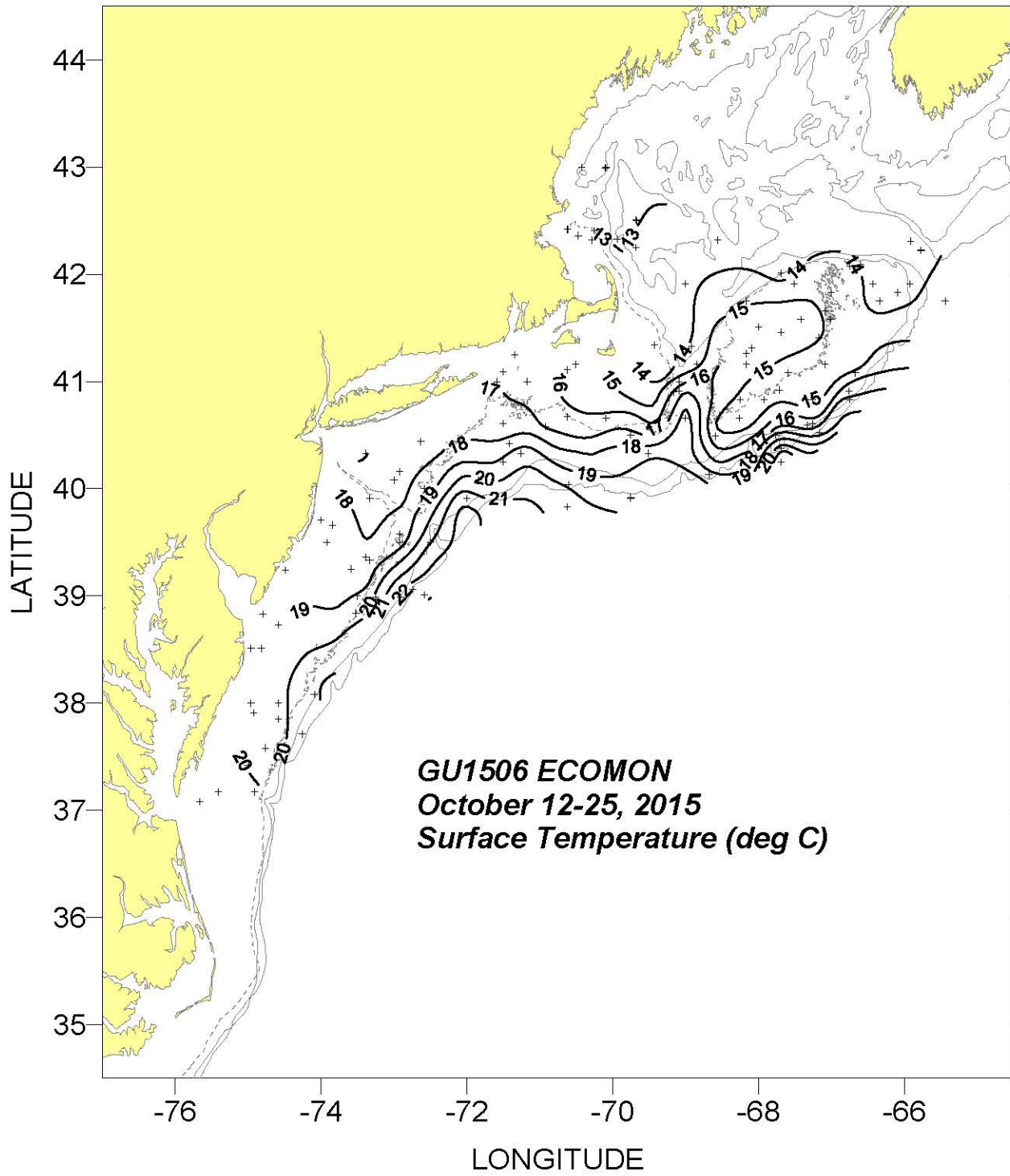
CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
<b>Western Gulf of Maine</b>														
GU1506	293	15	13.23	0.89	1.11	0.46	1	12	8.17	0.04	0.97	1.05	1	22
GU1506	293	15	32.41	0.08	0.49	0.16	1	12	33.13	-0.16	0.30	0.31	1	22
<b>Georges Bank</b>														
GU1506	295	38	15.37	1.20	0.24	1.50	0	39	14.14	1.84	0.23	1.70	0	22
GU1506	295	38	33.16	0.41	0.07	0.60	0	39	33.47	0.46	0.07	0.62	0	22
<b>MAB North</b>														
GU1506	289	20	17.97	1.71	0.36	1.32	0	20	16.47	3.82	0.37	2.33	0	22
GU1506	289	20	33.72	0.80	0.16	0.65	0	20	34.37	0.68	0.13	0.61	0	22
<b>MAB South</b>														
GU1506	287	28	19.69	1.36	0.34	1.34	0	25	18.36	4.08	0.45	2.61	0	22
GU1506	287	28	33.41	0.86	0.22	0.73	0	25	34.07	0.80	0.17	0.69	0	22

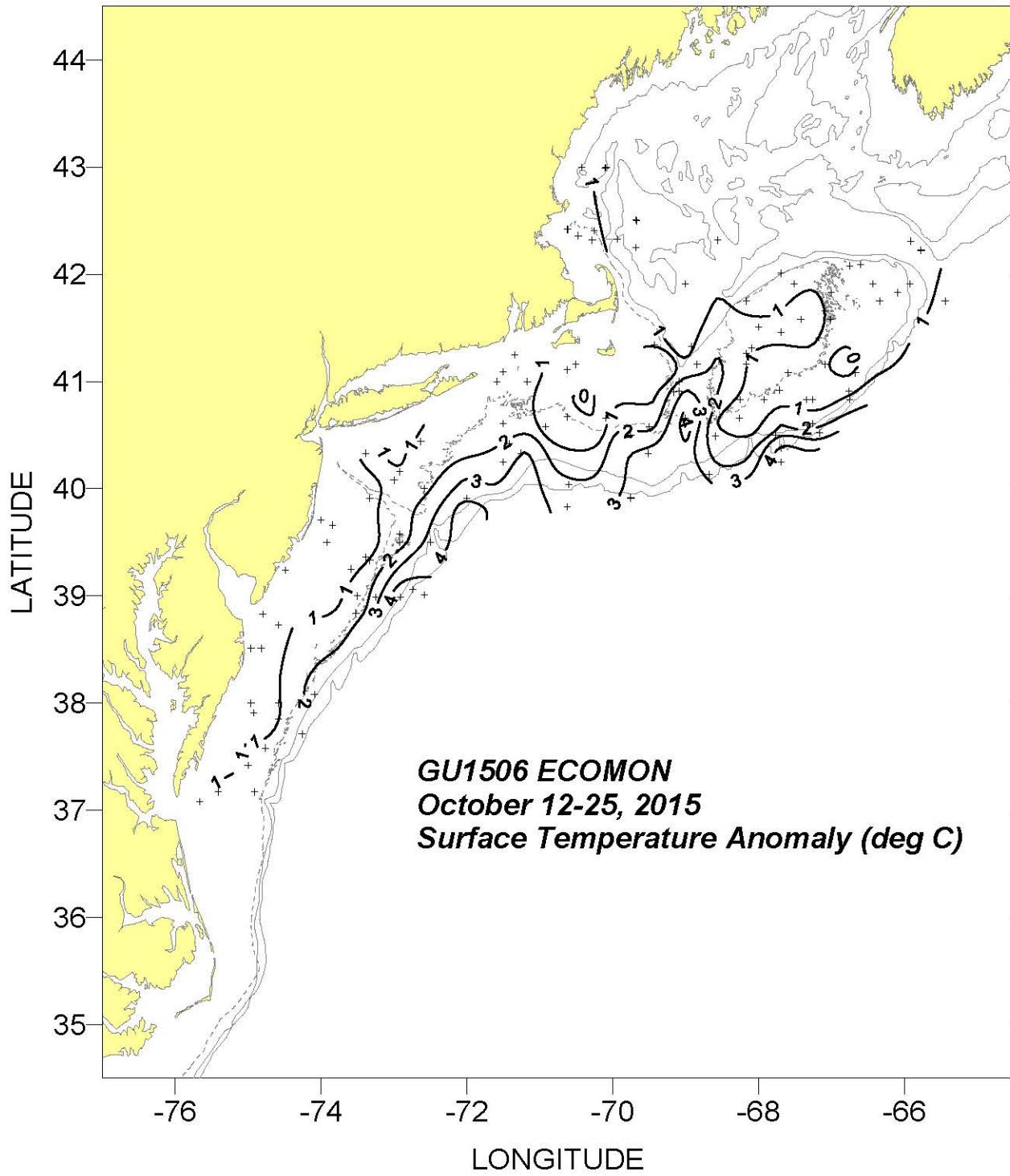
"CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise:

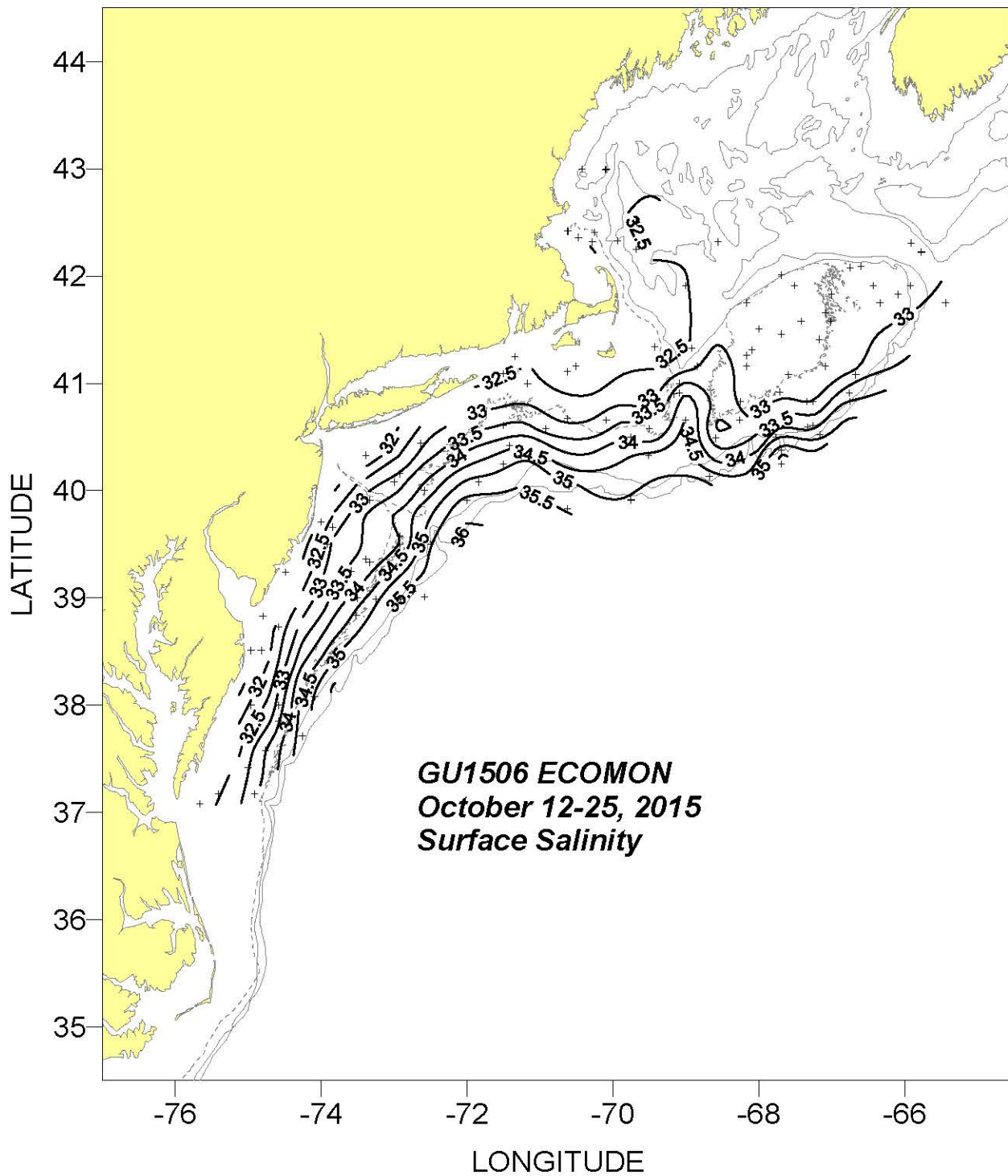
"#obs", the number of observations include in each average: "T/S", the areal average temp/salt: "Anomaly", the areal average temp/salt anomaly:

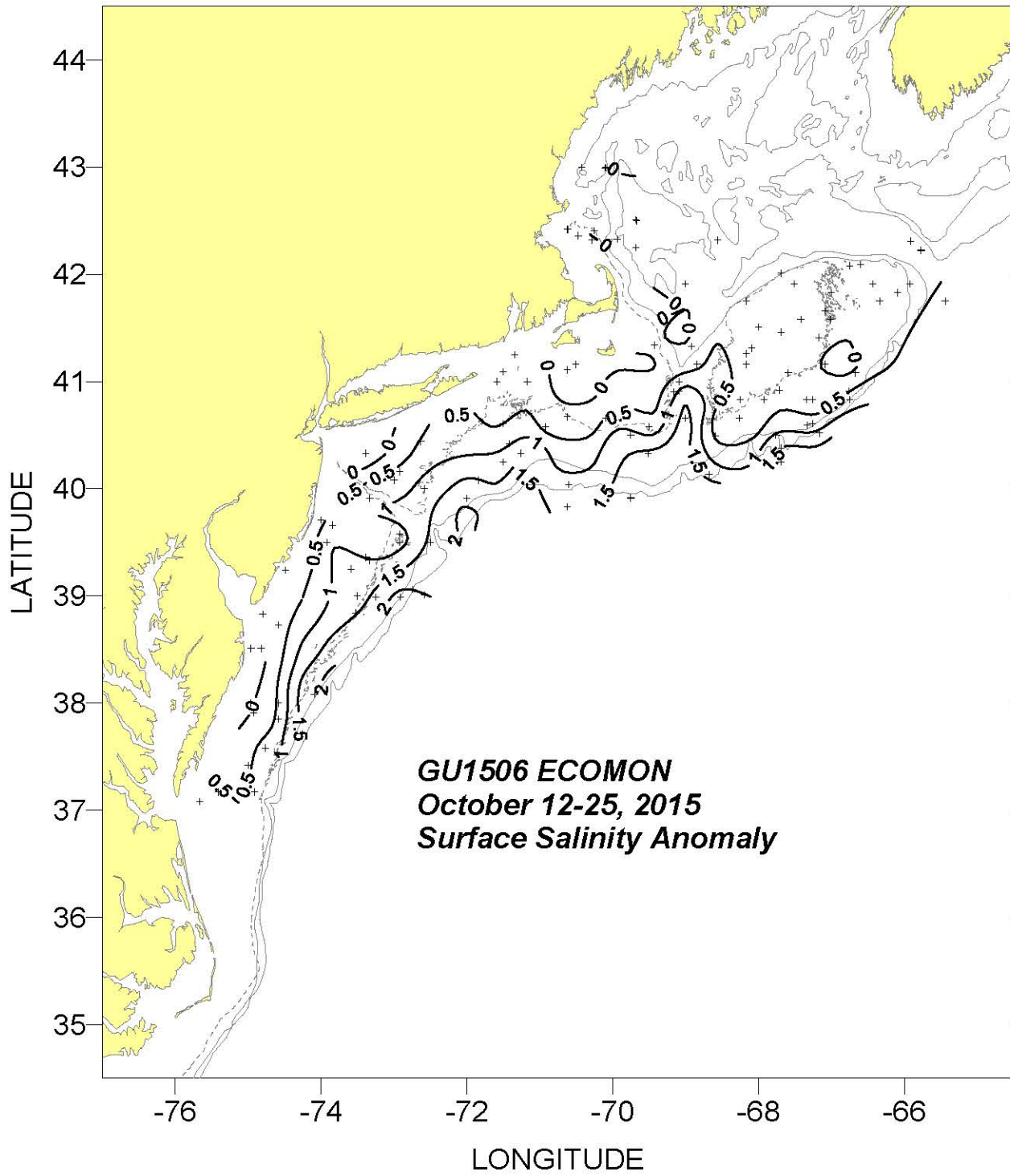
"SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived  
"Flag", a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal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

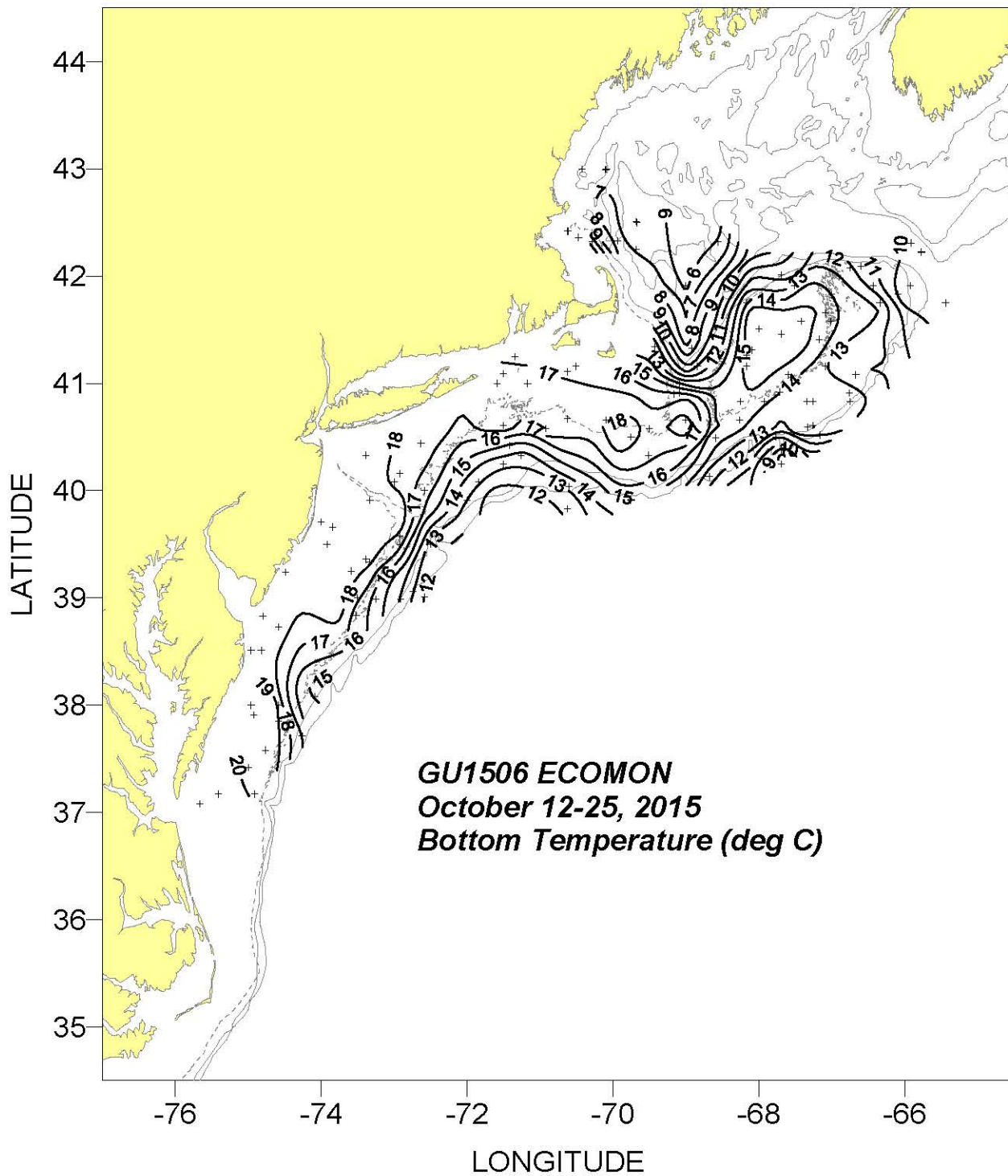


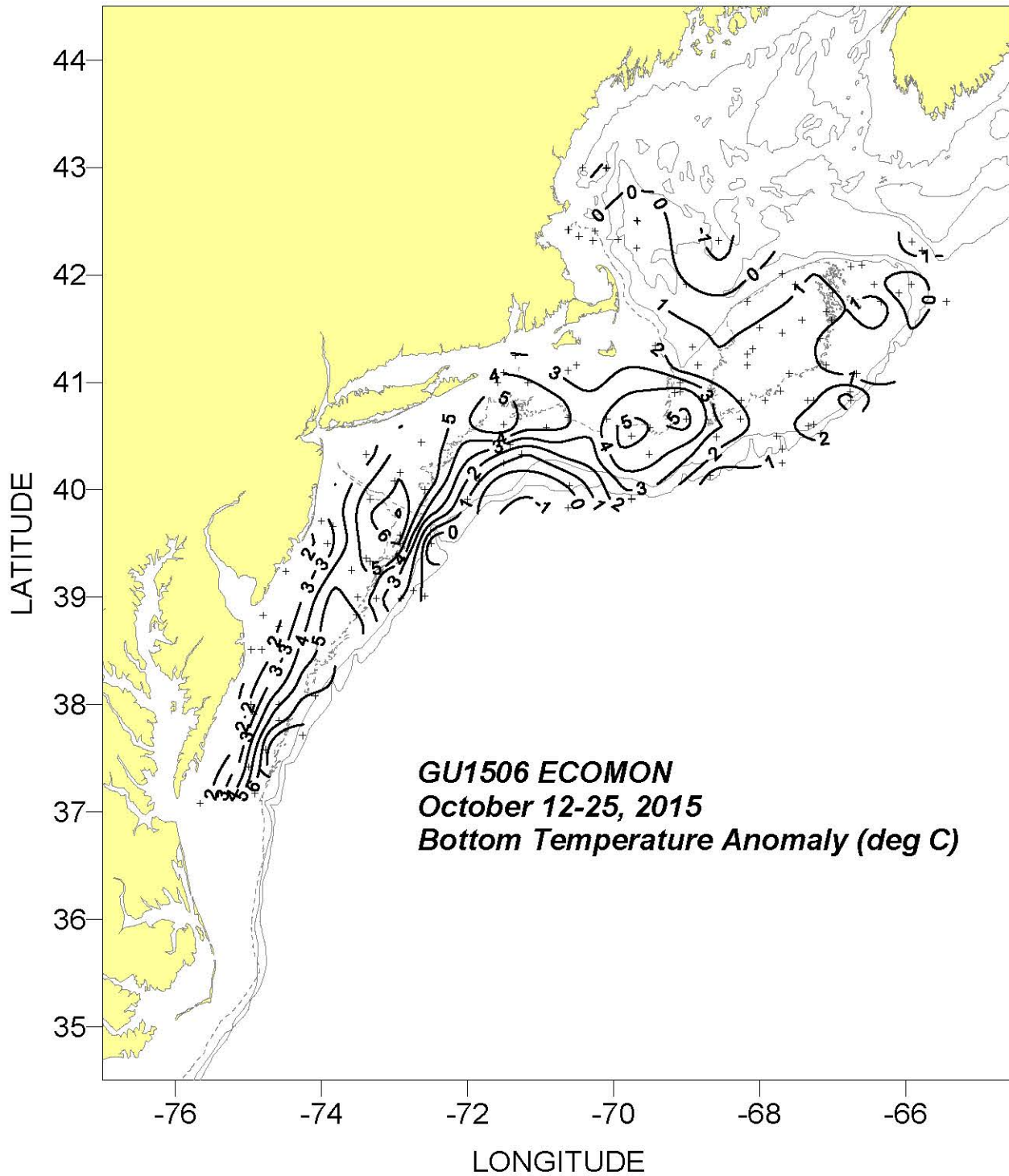


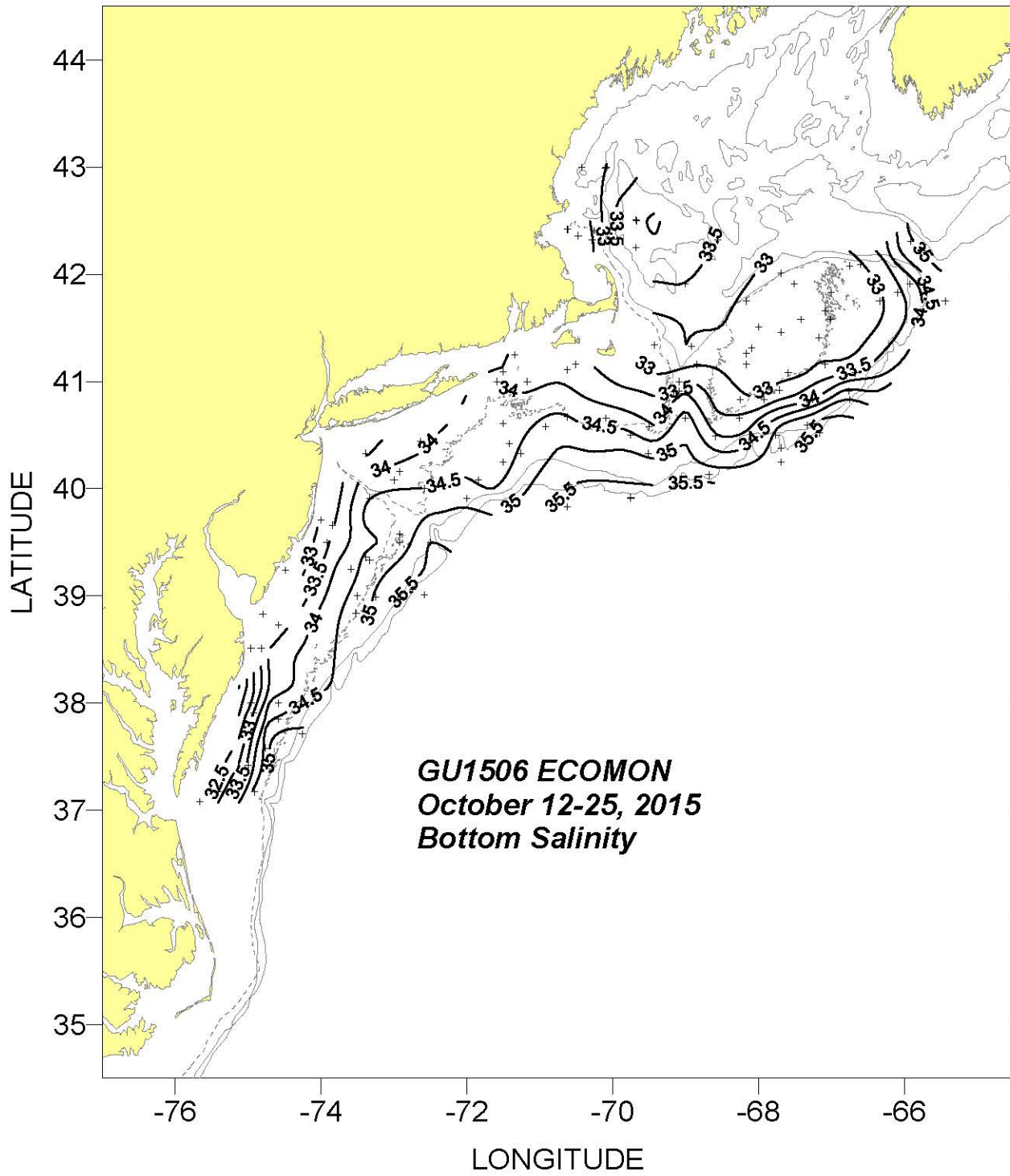


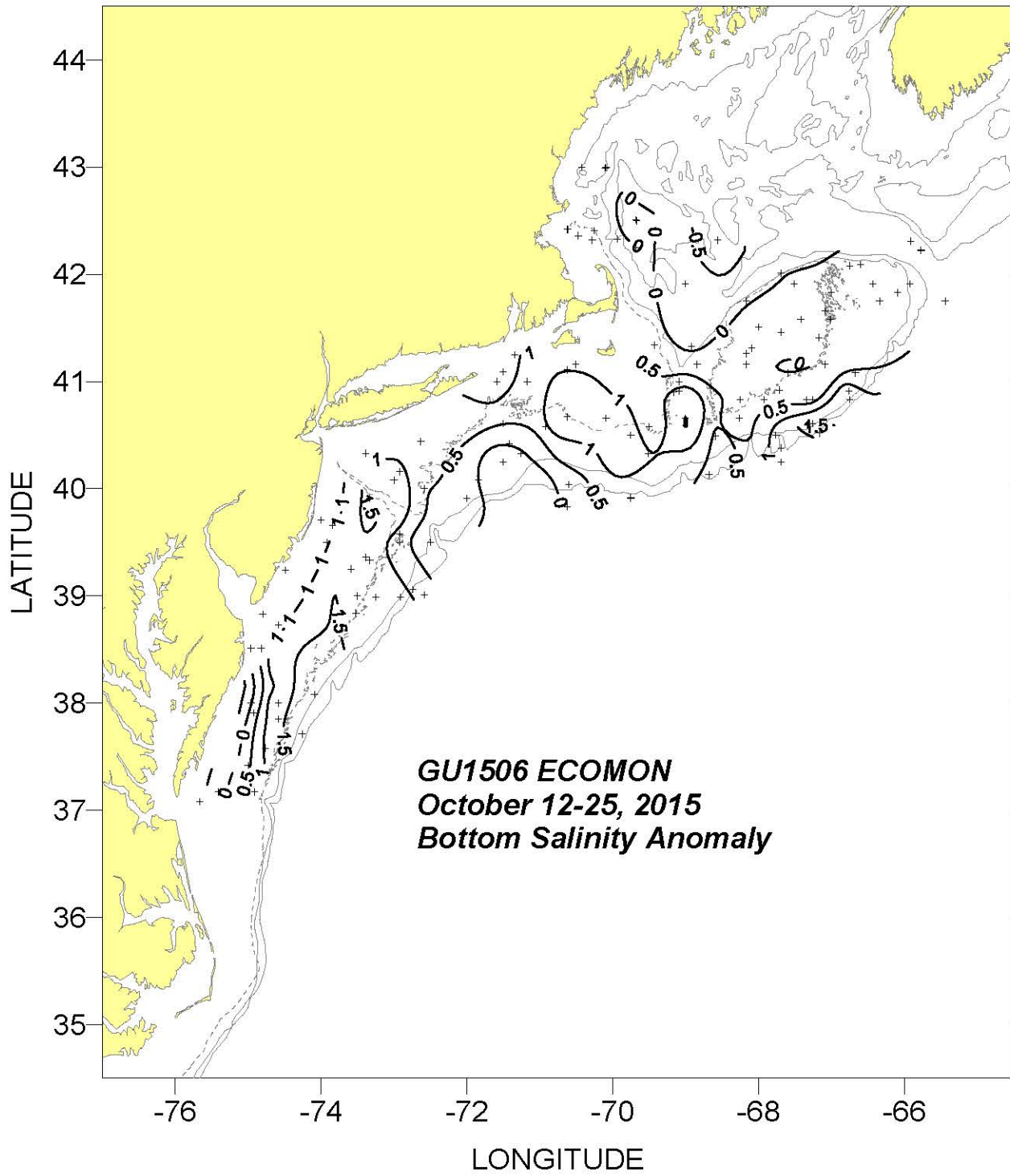












**GU1506 ECOMON Survey**  
**October 12 - 25, 2015**

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	3705.0	7539.9	12	10	2015	23:59	17	21.04	32.21	20.67	32.19	6	B
2	2	3710.0	7524.8	13	10	2015	1:30	30	20.55	32.42	20.44	32.48	10	B
3	3	3710.1	7454.9	13	10	2015	4:06	49	19.77	33.23	20.21	35.01	7	B
4	4	3725.0	7459.8	13	10	2015	5:58	35	19.98	32.92	19.68	33.22	9	B
5	5	3734.9	7445.4	13	10	2015	7:48	48	19.49	33.56	19.85	34.91	3	B
<b>1</b>	<b>6</b>	<b>3742.4</b>	<b>7415.6</b>	<b>13</b>	<b>10</b>	<b>2015</b>	<b>10:43</b>	<b>109</b>	<b>22.17</b>	<b>NaN</b>	<b>13.79</b>	<b>NaN</b>	<b>4</b>	<b>W</b>
6	7	3804.9	7405.4	13	10	2015	13:28	82	21.42	35.55	13.08	34.04	6	B
7	8	3759.8	7434.7	13	10	2015	16:25	38	19.21	33.08	18.87	33.81	10	B
<b>2</b>	<b>9</b>	<b>3750.8</b>	<b>7434.6</b>	<b>13</b>	<b>10</b>	<b>2015</b>	<b>17:44</b>	<b>53</b>	<b>19.36</b>	<b>33.37</b>	<b>20.08</b>	<b>35.07</b>	<b>8</b>	<b>W</b>
8	10	3754.9	7455.1	13	10	2015	19:51	24	19.77	32.16	19.45	32.84	6	B
<b>3</b>	<b>11</b>	<b>3800.1</b>	<b>7457.5</b>	<b>13</b>	<b>10</b>	<b>2015</b>	<b>20:43</b>	<b>22</b>	<b>19.80</b>	<b>32.05</b>	<b>19.78</b>	<b>32.05</b>	<b>9</b>	<b>W</b>
9	12	3830.3	7457.7	13	10	2015	23:56	16	18.89	30.79	18.69	31.34	5	B
10	13	3830.3	7449.3	14	10	2015	0:52	26	18.97	31.36	18.63	33.54	7	B
11	14	3849.9	7448.0	14	10	2015	3:03	17	18.87	31.59	18.90	31.93	5	B
12	15	3843.5	7435.0	14	10	2015	4:31	27	19.21	32.23	18.38	33.45	4	B
13	16	3914.6	7429.3	14	10	2015	8:05	16	18.43	31.46	18.38	32.17	4	B
14	17	3930.1	7355.2	14	10	2015	11:32	26	18.51	32.92	18.36	33.48	4	B
<b>4</b>	<b>18</b>	<b>3942.5</b>	<b>7400.2</b>	<b>14</b>	<b>10</b>	<b>2015</b>	<b>13:09</b>	<b>23</b>	<b>18.15</b>	<b>31.89</b>	<b>18.49</b>	<b>33.06</b>	<b>2</b>	<b>W</b>
15	19	3939.8	7350.2	14	10	2015	14:23	32	18.58	32.91	18.38	33.36	5	B
<b>5</b>	<b>20</b>	<b>3921.7</b>	<b>7323.6</b>	<b>14</b>	<b>10</b>	<b>2015</b>	<b>17:22</b>	<b>49</b>	<b>18.15</b>	<b>33.57</b>	<b>18.19</b>	<b>34.23</b>	<b>4</b>	<b>W</b>
16	21	3919.8	7320.0	14	10	2015	18:02	51	18.18	33.57	18.83	34.79	4	B
17	22	3914.8	7335.5	14	10	2015	19:34	47	18.46	33.81	18.43	34.44	4	B
18	23	3859.8	7330.1	14	10	2015	21:23	54	18.21	33.90	19.21	34.93	6	B
19	24	3850.1	7331.0	14	10	2015	22:38	58	19.19	34.49	19.10	34.85	5	B
20	25	3859.6	7314.8	15	10	2015	0:27	72	20.47	35.22	12.86	34.71	3	B
21	26	3859.7	7254.8	15	10	2015	2:16	96	22.53	35.70	14.18	35.81	4	B
<b>6</b>	<b>27</b>	<b>3903.3</b>	<b>7244.5</b>	<b>15</b>	<b>10</b>	<b>2015</b>	<b>3:31</b>	<b>199</b>	<b>22.75</b>	<b>35.90</b>	<b>12.07</b>	<b>35.55</b>	<b>5</b>	<b>W</b>

**GU1506 ECOMON Survey**  
**October 12 - 25, 2015**

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
<b>7</b>	<b>28</b>	<b>3900.8</b>	<b>7235.0</b>	<b>15</b>	<b>10</b>	<b>2015</b>	<b>4:56</b>	<b>1000</b>	<b>22.88</b>	<b>35.69</b>	<b>6.12</b>	<b>35.06</b>	<b>493</b>	<b>W</b>
22	29	3930.0	7230.0	15	10	2015	8:57	112	20.97	35.48	12.60	35.51	4	B
23	30	3930.0	7255.0	15	10	2015	11:18	60	18.42	33.91	17.11	34.59	3	B
24	31	3934.9	7255.1	15	10	2015	12:00	62	18.44	34.42	19.57	35.12	4	B
25	32	3954.9	7319.9	15	10	2015	15:02	52	17.66	33.53	18.80	34.82	4	B
26	33	4019.9	7323.7	15	10	2015	17:56	32	18.04	31.50	18.65	33.42	5	B
27	34	4005.0	7300.1	15	10	2015	20:34	49	17.63	33.27	17.83	34.40	5	B
28	35	4009.9	7255.3	15	10	2015	21:27	48	17.53	32.86	17.47	34.01	4	B
29	36	4026.5	7237.5	15	10	2015	23:53	46	17.39	32.87	17.74	33.94	5	B
30	37	3959.8	7234.9	16	10	2015	2:51	64	18.16	34.19	16.72	34.42	5	B
31	38	3954.9	7159.9	16	10	2015	5:53	96	22.56	35.94	13.08	34.91	3	B
32	39	4004.9	7150.2	16	10	2015	7:40	84	18.82	34.74	12.67	34.24	3	B
33	40	4015.0	7130.2	16	10	2015	9:51	88	19.71	35.18	12.69	34.13	4	B
34	41	4025.3	7125.1	16	10	2015	11:19	75	17.58	34.03	15.46	34.21	3	B
35	42	4019.9	7115.4	16	10	2015	12:34	89	19.81	NaN	13.31	34.55	6	B
36	43	4034.8	7055.2	16	10	2015	15:04	73	16.67	33.22	17.55	34.59	5	B
37	44	4036.8	7130.0	16	10	2015	19:47	67	17.05	33.50	18.30	34.67	4	B
38	45	4059.9	7110.2	16	10	2015	23:19	53	16.70	32.63	17.15	33.81	3	B
39	46	4059.9	7135.2	17	10	2015	1:31	43	17.20	32.37	17.74	34.27	5	B
40	47	4105.1	7130.1	17	10	2015	2:30	23	16.84	32.43	16.93	32.59	6	B
41	48	4115.0	7120.2	17	10	2015	4:08	38	16.66	32.58	17.30	33.90	4	B
<b>8</b>	<b>49</b>	<b>4106.4</b>	<b>7037.4</b>	<b>17</b>	<b>10</b>	<b>2015</b>	<b>8:17</b>	<b>44</b>	<b>15.94</b>	<b>32.28</b>	<b>16.52</b>	<b>33.72</b>	<b>1</b>	<b>W</b>
42	50	4109.9	7030.3	17	10	2015	9:21	38	16.18	32.16	16.39	33.65	4	B
43	51	4039.9	7005.3	17	10	2015	13:32	47	15.51	32.95	17.58	33.98	4	B
<b>9</b>	<b>52</b>	<b>4040.2</b>	<b>7037.2</b>	<b>17</b>	<b>10</b>	<b>2015</b>	<b>16:24</b>	<b>62</b>	<b>16.05</b>	<b>32.79</b>	<b>18.73</b>	<b>34.67</b>	<b>4</b>	<b>W</b>
<b>10</b>	<b>53</b>	<b>4002.3</b>	<b>7036.1</b>	<b>17</b>	<b>10</b>	<b>2015</b>	<b>20:30</b>	<b>169</b>	<b>20.18</b>	<b>35.27</b>	<b>12.71</b>	<b>35.63</b>	<b>8</b>	<b>W</b>
<b>11</b>	<b>54</b>	<b>3950.0</b>	<b>7037.4</b>	<b>17</b>	<b>10</b>	<b>2015</b>	<b>23:12</b>	<b>900</b>	<b>20.29</b>	<b>35.39</b>	<b>6.08</b>	<b>35.06</b>	<b>391</b>	<b>W</b>
44	55	3954.8	6945.2	18	10	2015	4:47	255	19.47	34.96	12.36	35.58	52	B

**GU1506 ECOMON Survey**  
**October 12 - 25, 2015**

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
45	55	3955.4	6945.2	18	10	2015	5:16	233	19.42	34.95	12.08	35.55	37	V
46	56	4020.0	6930.3	18	10	2015	12:46	74	19.06	NaN	17.26	34.91	4	B
47	57	4029.9	6944.9	18	10	2015	15:15	71	18.16	NaN	19.54	34.91	2	B
48	58	4034.8	6930.0	18	10	2015	17:13	57	15.59	NaN	17.42	33.89	2	B
49	59	4039.8	6900.1	18	10	2015	20:38	68	19.04	34.77	19.28	34.85	3	B
<b>12</b>	<b>60</b>	<b>4053.9</b>	<b>6909.7</b>	<b>19</b>	<b>10</b>	<b>2015</b>	<b>0:02</b>	<b>69</b>	<b>15.13</b>	<b>33.21</b>	<b>16.70</b>	<b>33.74</b>	<b>4</b>	<b>W</b>
50	61	4059.9	6905.2	19	10	2015	1:41	78	12.94	32.51	12.29	33.01	6	B
51	62	4109.9	6850.1	19	10	2015	4:32	89	16.70	NaN	10.40	33.03	3	B
52	63	4119.8	6855.2	19	10	2015	6:50	143	14.08	32.52	7.00	33.08	5	B
53	64	4154.8	6900.0	19	10	2015	14:36	188	13.87	NaN	5.66	33.50	4	B
54	65	4215.0	6940.7	19	10	2015	19:26	250	13.35	32.54	6.39	33.88	48	B
55	65	4215.0	6940.7	19	10	2015	19:49	245	13.29	32.54	6.86	NaN	2	W
58	66	4219.6	6956.3	19	10	2015	22:48	210	12.56	32.40	6.35	33.76	8	B
<b>13</b>	<b>67</b>	<b>4219.0</b>	<b>7016.8</b>	<b>20</b>	<b>10</b>	<b>2015</b>	<b>1:41</b>	<b>32</b>	<b>13.61</b>	<b>31.93</b>	<b>12.73</b>	<b>32.13</b>	<b>1</b>	<b>W</b>
<b>14</b>	<b>68</b>	<b>4221.6</b>	<b>7028.1</b>	<b>20</b>	<b>10</b>	<b>2015</b>	<b>3:26</b>	<b>68</b>	<b>13.37</b>	<b>31.91</b>	<b>8.84</b>	<b>32.33</b>	<b>8</b>	<b>W</b>
59	69	4225.0	7036.9	20	10	2015	4:48	86	12.99	32.02	7.53	32.33	8	B
<b>15</b>	<b>69</b>	<b>4225.3</b>	<b>7037.3</b>	<b>20</b>	<b>10</b>	<b>2015</b>	<b>5:06</b>	<b>86</b>	<b>13.01</b>	<b>32.05</b>	<b>7.87</b>	<b>32.34</b>	<b>9</b>	<b>W</b>
60	70	4224.8	7015.1	20	10	2015	7:52	63	12.88	32.39	9.52	32.50	4	B
<b>16</b>	<b>71</b>	<b>4259.9</b>	<b>7025.3</b>	<b>20</b>	<b>10</b>	<b>2015</b>	<b>13:30</b>	<b>105</b>	<b>12.57</b>	<b>32.25</b>	<b>6.28</b>	<b>32.81</b>	<b>8</b>	<b>W</b>
61	72	4259.9	7005.1	20	10	2015	15:49	125	12.08	32.22	7.16	32.82	7	B
62	72	4259.7	7006.1	20	10	2015	16:21	143	12.11	32.25	6.68	32.85	19	B
63	73	4230.0	6940.1	20	10	2015	21:32	255	13.13	32.61	6.94	34.08	52	B
<b>17</b>	<b>73</b>	<b>4230.4</b>	<b>6940.8</b>	<b>20</b>	<b>10</b>	<b>2015</b>	<b>22:03</b>	<b>261</b>	<b>13.26</b>	<b>32.61</b>	<b>7.25</b>	<b>34.20</b>	<b>3</b>	<b>W</b>
64	74	4219.0	6833.5	21	10	2015	3:56	169	13.52	32.60	5.60	33.49	2	B
65	75	4144.9	6810.2	21	10	2015	8:25	53	14.76	32.95	14.73	32.94	2	B
66	76	4130.8	6759.8	21	10	2015	10:16	34	15.98	NaN	15.98	32.81	5	B
<b>18</b>	<b>77</b>	<b>4127.9</b>	<b>6741.2</b>	<b>21</b>	<b>10</b>	<b>2015</b>	<b>11:53</b>	<b>37</b>	<b>15.97</b>	<b>32.72</b>	<b>15.99</b>	<b>32.72</b>	<b>3</b>	<b>W</b>

**GU1506 ECOMON Survey**  
**October 12 - 25, 2015**

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
67	78	4134.8	6725.3	21	10	2015	13:36	32	15.67	32.76	15.61	32.77	4	B
<b>19</b>	<b>79</b>	<b>4200.5</b>	<b>6741.6</b>	<b>21</b>	<b>10</b>	<b>2015</b>	<b>16:49</b>	<b>64</b>	<b>13.56</b>	<b>32.56</b>	<b>11.03</b>	<b>32.83</b>	<b>4</b>	<b>W</b>
68	80	4154.8	6730.3	21	10	2015	18:16	52	14.43	32.85	14.14	32.83	4	B
69	81	4149.9	6659.9	21	10	2015	21:02	64	14.57	32.79	14.52	32.79	4	B
70	82	4204.8	6644.8	21	10	2015	23:08	77	14.29	32.82	12.02	32.74	7	B
71	83	4205.1	6636.2	21	10	2015	23:57	82	13.80	32.84	11.51	32.89	8	B
<b>20</b>	<b>84</b>	<b>4218.4</b>	<b>6554.6</b>	<b>22</b>	<b>10</b>	<b>2015</b>	<b>3:38</b>	<b>228</b>	<b>13.70</b>	<b>32.55</b>	<b>9.99</b>	<b>35.24</b>	<b>5</b>	<b>W</b>
72	85	4213.5	6546.1	22	10	2015	5:09	227	13.74	32.70	9.90	35.23	23	B
<b>21</b>	<b>85</b>	<b>4213.4</b>	<b>6545.9</b>	<b>22</b>	<b>10</b>	<b>2015</b>	<b>5:40</b>	<b>226</b>	<b>13.77</b>	<b>32.74</b>	<b>9.64</b>	<b>35.23</b>	<b>3</b>	<b>W</b>
<b>22</b>	<b>86</b>	<b>4145.1</b>	<b>6526.5</b>	<b>22</b>	<b>10</b>	<b>2015</b>	<b>9:49</b>	<b>1800</b>	<b>14.55</b>	<b>33.19</b>	<b>6.05</b>	<b>35.05</b>	<b>1294</b>	<b>W</b>
73	87	4154.9	6555.4	22	10	2015	12:56	110	13.78	NaN	8.85	33.77	3	B
74	88	4149.9	6605.1	22	10	2015	14:16	94	13.37	32.78	10.13	33.04	4	B
75	89	4144.8	6620.1	22	10	2015	15:50	80	13.74	32.81	13.29	32.86	4	B
76	90	4154.5	6625.6	22	10	2015	17:17	88	13.87	32.85	11.30	32.92	4	B
77	91	4139.9	6705.1	22	10	2015	20:52	58	14.87	32.77	14.71	32.78	3	B
78	92	4134.9	6700.3	22	10	2015	21:50	62	14.48	32.78	14.39	32.78	5	B
79	93	4124.8	6710.2	22	10	2015	23:29	52	15.20	32.73	14.67	32.76	3	B
80	94	4109.9	6705.3	23	10	2015	1:12	64	14.00	32.85	12.98	32.93	7	B
81	95	4104.8	6640.3	23	10	2015	3:27	80	14.95	32.98	11.40	33.15	3	B
82	96	4054.8	6645.3	23	10	2015	4:45	94	15.24	33.07	12.65	34.24	4	B
83	97	4050.0	6645.1	23	10	2015	5:38	114	19.28	NaN	15.41	35.69	2	B
84	98	4050.0	6715.3	23	10	2015	8:29	93	14.08	NaN	12.93	33.91	4	B
85	99	4049.9	6720.2	23	10	2015	9:10	90	14.97	33.27	13.78	34.31	4	B
86	100	4036.3	6715.8	23	10	2015	11:03	111	16.07	33.73	14.47	35.78	3	B
87	101	4035.3	6719.8	23	10	2015	11:44	107	21.20	35.54	14.62	35.68	3	B
88	102	4031.0	6709.6	23	10	2015	12:53	215	16.79	34.03	11.21	35.44	8	B
89	103	4029.8	6745.3	23	10	2015	16:18	127	16.58	33.82	12.65	35.54	3	B
<b>23</b>	<b>104</b>	<b>4022.8</b>	<b>6741.2</b>	<b>23</b>	<b>10</b>	<b>2015</b>	<b>17:34</b>	<b>310</b>	<b>21.00</b>	<b>35.58</b>	<b>7.47</b>	<b>35.13</b>	<b>4</b>	<b>W</b>



**GU1506 ECOMON Survey**  
**October 12 - 25, 2015**

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
<b>24</b>	<b>105</b>	<b>4014.8</b>	<b>6741.2</b>	<b>23</b>	<b>10</b>	<b>2015</b>	<b>19:04</b>	<b>1118</b>	<b>21.85</b>	<b>35.52</b>	<b>5.86</b>	<b>35.05</b>	<b>614</b>	<b>W</b>
90	106	4007.8	6841.0	24	10	2015	2:50	174	18.64	34.99	11.88	35.48	6	B
91	107	4029.7	6835.4	24	10	2015	7:51	83	14.47	32.77	14.69	33.86	5	B
92	108	4039.8	6815.3	24	10	2015	11:05	78	14.25	32.82	14.74	33.42	5	B
93	109	4049.6	6815.1	24	10	2015	12:43	51	14.72	32.91	14.73	32.91	5	B
94	110	4049.7	6755.4	24	10	2015	14:31	68	13.96	32.76	14.22	33.28	4	B
<b>25</b>	<b>111</b>	<b>4055.4</b>	<b>6742.8</b>	<b>24</b>	<b>10</b>	<b>2015</b>	<b>16:15</b>	<b>63</b>	<b>14.10</b>	<b>32.79</b>	<b>13.74</b>	<b>32.93</b>	<b>2</b>	<b>W</b>
95	112	4104.7	6735.4	24	10	2015	18:03	58	14.59	32.74	14.55	32.75	4	B
96	113	4118.6	6805.2	24	10	2015	20:43	36	NaN	NaN	15.88	32.77	4	B
97	114	4115.3	6810.1	24	10	2015	23:29	40	15.77	32.75	15.79	32.75	5	B
98	115	4109.9	6810.2	25	10	2015	0:17	38	15.62	32.74	15.62	32.74	6	B
99	116	4054.7	6905.3	25	10	2015	4:59	74	17.34	NaN	17.32	34.14	6	B
100	117	4120.7	6925.9	25	10	2015	8:48	31	13.13	32.50	12.85	32.52	4	B

Deployment codes: B=bongo cast; W=water cast; and V=vertical cast  
Records in **bold** are from instrument SBE0420