

*Oceanography Branch CTD Data Report
2017 Tuna Slope Survey - GU 1702*

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DATE: June 11-22, 2017

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Oceans and Climate Branch CTD Data Report

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

GU 1702
2017 Tuna Slope Survey
Data Coverage: June 11-22, 2017

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2017 ECOMON Survey aboard the NOAA Ship *Gordon Gunter*. All data was obtained with a Seabird Electronics 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 3 Neuston tows, 149 double oblique bongo casts or tow-yos, and 16 water sampling casts. 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 a [comma delimited file](#).

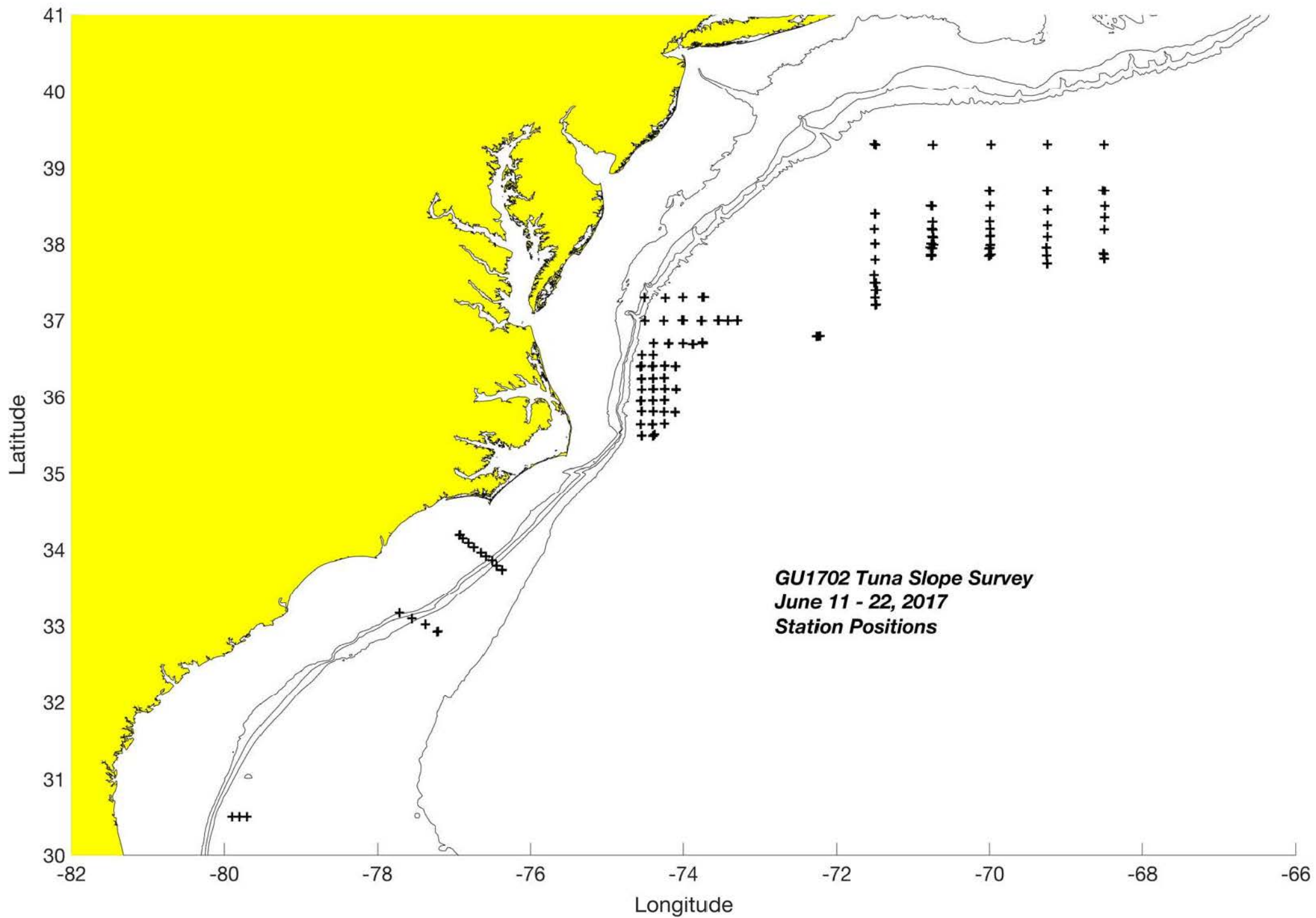
This report may be viewed on the [Oceans and Climate Branch website](#)

choose: **2017 Cruises**

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Revised: January 24, 2018



GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
1	1	3918.1	7129.1	11	6	2017	9:14	2486	15.95	33.98	12.12	35.48	2284	B
2	1	3918.6	7130.5	11	6	2017	9:52	2444	15.95	33.97	15.30	33.99	2418	O
3	2	3917.9	7044.6	11	6	2017	14:02	2661	16.83	34.04	12.11	35.47	2458	B
4	3	3918.2	6958.8	11	6	2017	17:58	2615	17.99	35.26	12.76	35.62	2412	B
5	4	3918.3	6914.8	11	6	2017	22:01	2757	16.05	33.93	12.52	35.54	2552	B
6	5	3918.2	6830.2	12	6	2017	2:08	3040	16.45	34.57	12.28	35.46	2838	B
7	6	3842.0	6829.5	12	6	2017	6:17	3645	18.35	35.27	11.74	35.48	3443	B
8	6	3842.3	6831.2	12	6	2017	6:52	3619	18.44	35.28	18.44	35.28	3613	W
9	7	3829.8	6829.5	12	6	2017	8:24	3936	18.45	35.31	11.76	35.47	3735	B
10	8	3821.1	6829.6	12	6	2017	10:01	4046	18.22	35.29	11.53	35.45	3841	B
11	9	3811.6	6830.0	12	6	2017	11:45	4226	18.81	35.13	11.87	35.49	4022	B
12	10	3752.2	6830.2	12	6	2017	14:09	4358	22.05	34.72	19.66	34.62	4332	O
13	10	3752.8	6830.8	12	6	2017	14:37	4347	22.00	34.72	12.07	35.52	4146	B
14	11	3748.6	6829.8	12	6	2017	15:41	4405	21.69	34.41	12.55	35.60	4202	B
15	11	3748.8	6830.2	12	6	2017	16:08	4397	21.61	34.42	17.94	34.90	4372	O
16.001	12	3745.0	6915.2	13	6	2017	0:17	4081	23.07	34.88	25.57	36.32	4056	T
16.002	12	3745.0	6915.2	13	6	2017	0:20	4081	23.13	34.91	25.51	36.29	4054	T
17	12	3744.8	6914.8	13	6	2017	0:38	4082	23.70	35.25	13.05	35.50	3879	B
18.001	13	3751.1	6915.6	13	6	2017	2:04	4017	25.23	35.95	18.61	34.77	3991	T
18.002	13	3751.1	6915.6	13	6	2017	2:07	4017	25.24	35.95	18.60	34.78	3991	T
19	13	3751.1	6915.4	13	6	2017	2:21	4016	25.23	35.96	13.30	35.71	3811	B
20.001	14	3757.2	6915.6	13	6	2017	3:26	3957	20.49	34.33	17.89	34.89	3932	T
20.002	14	3757.2	6915.6	13	6	2017	3:29	3957	20.55	34.34	17.96	34.88	3932	T
21	14	3757.4	6915.8	13	6	2017	3:45	3955	20.47	34.29	11.82	35.48	3753	B
22	15	3805.9	6914.8	13	6	2017	5:05	3853	19.85	34.66	12.06	35.49	3650	B
23	16	3814.9	6914.8	13	6	2017	6:26	3741	19.70	35.37	12.14	35.52	3538	B
24	17	3826.9	6914.7	13	6	2017	8:05	3542	18.49	34.81	11.67	35.47	3338	B
25	18	3841.9	6914.6	13	6	2017	10:04	3308	16.47	34.10	12.18	35.53	3104	B

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
26	18	3842.1	6915.2	13	6	2017	10:28	3315	16.48	34.11	15.77	34.30	3304	W
27	19	3841.7	6959.6	13	6	2017	14:29	3144	18.67	35.30	11.62	35.46	2941	B
28	19	3842.1	7000.3	13	6	2017	14:56	3132	19.09	NaN	18.63	35.30	3121	W
29	20	3829.9	6959.6	13	6	2017	16:21	3342	19.32	35.40	11.87	35.49	3139	B
30	21	3818.0	6959.8	13	6	2017	18:03	3547	19.72	35.28	12.22	35.53	3344	B
31	22	3812.1	6959.5	13	6	2017	19:13	3645	23.83	35.70	12.50	35.55	3442	B
32.001	23	3806.3	6959.7	13	6	2017	20:39	3754	27.15	36.32	26.77	36.35	3729	T
32.002	23	3806.3	6959.7	13	6	2017	20:43	3754	27.14	36.08	26.98	36.33	3729	T
33	23	3806.7	6959.2	13	6	2017	20:58	3750	27.06	36.31	12.84	35.60	3547	B
34.001	24	3759.3	6959.6	13	6	2017	22:25	3857	27.17	36.28	27.18	36.28	3832	T
34.002	24	3759.3	6959.6	13	6	2017	22:28	3857	27.17	36.28	27.18	36.28	3832	T
35	24	3759.6	6959.1	13	6	2017	22:44	3858	27.17	36.28	15.83	36.10	3655	B
36.001	25	3756.6	7000.4	13	6	2017	23:46	3889	26.98	36.30	27.00	36.30	3863	T
36.002	25	3756.6	7000.4	13	6	2017	23:51	3889	26.97	36.30	26.98	36.32	3859	T
37	25	3757.0	6959.6	14	6	2017	0:06	3889	26.94	36.31	17.52	36.35	3686	B
38.001	26	3750.8	7000.5	14	6	2017	1:33	3959	27.33	36.27	27.34	36.27	3934	T
38.002	26	3750.8	7000.5	14	6	2017	1:36	3959	27.32	36.27	27.33	36.27	3934	T
39	26	3751.2	6959.9	14	6	2017	1:50	3958	27.30	36.28	18.56	36.55	3754	B
40	26	3752.0	6958.8	14	6	2017	2:21	3955	27.28	36.28	27.28	36.28	3947	W
41.001	27	3750.8	7046.1	14	6	2017	7:59	3692	21.96	34.11	18.49	34.75	3668	T
41.002	27	3750.8	7046.1	14	6	2017	8:01	3692	21.92	34.12	18.52	34.76	3669	T
41.003	27	3750.8	7046.1	14	6	2017	8:03	3692	21.95	34.12	18.49	34.79	3669	T
41.004	27	3750.8	7046.1	14	6	2017	8:06	3692	21.94	34.04	18.51	34.81	3668	T
42	27	3751.2	7045.3	14	6	2017	8:28	3692	21.89	34.19	12.26	35.51	3489	B
43	27	3751.8	7045.9	14	6	2017	8:57	3668	21.92	34.17	17.00	34.40	3647	W
44	28	3756.8	7044.9	14	6	2017	9:36	3910	23.55	35.16	12.39	35.56	3708	B
45.001	28	3757.5	7046.3	14	6	2017	10:17	3958	23.38	35.05	24.09	36.43	3933	T

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
45.002	28	3757.5	7046.3	14	6	2017	10:19	3958	23.35	35.04	24.15	36.42	3933	T
45.003	28	3757.5	7046.3	14	6	2017	10:21	3958	23.40	35.08	24.19	36.43	3934	T
45.004	28	3757.5	7046.3	14	6	2017	10:24	3958	23.45	35.12	24.27	36.43	3934	T
46	29	3759.6	7044.0	14	6	2017	10:53	3535	24.62	35.64	12.38	35.56	3333	B
47.001	29	3800.5	7045.6	14	6	2017	11:38	3514	24.65	35.65	24.58	36.44	3490	T
47.002	29	3800.5	7045.6	14	6	2017	11:41	3514	24.70	35.67	24.48	36.45	3489	T
47.003	29	3800.5	7045.6	14	6	2017	11:44	3514	24.69	35.67	24.96	36.45	3491	T
48.001	30	3805.4	7044.3	14	6	2017	12:23	3418	25.30	35.88	24.70	36.46	3395	T
48.002	30	3805.4	7044.3	14	6	2017	12:26	3418	25.18	35.83	24.40	36.46	3394	T
48.003	30	3805.4	7044.3	14	6	2017	12:29	3418	25.12	35.81	24.48	36.45	3395	T
49	30	3806.0	7044.8	14	6	2017	12:46	3401	23.86	35.13	11.93	35.50	3198	B
50.001	31	3811.4	7044.7	14	6	2017	13:49	3298	20.82	34.24	18.08	34.67	3276	T
50.002	31	3811.4	7044.7	14	6	2017	13:53	3298	21.18	34.38	18.22	34.72	3276	T
51	31	3812.1	7045.3	14	6	2017	14:12	3272	23.40	35.30	12.16	35.53	3065	B
52	32	3817.7	7044.8	14	6	2017	15:19	3194	19.17	34.85	12.14	35.51	2990	B
53	33	3829.8	7045.2	14	6	2017	17:01	3302	18.57	34.53	12.45	35.57	3099	B
54	33	3830.0	7046.2	14	6	2017	17:26	3286	19.05	34.51	18.42	34.48	3280	W
55	34	3823.9	7130.0	14	6	2017	21:01	2895	19.55	34.71	11.76	35.47	2692	B
56	34	3823.7	7129.6	14	6	2017	21:32	2897	19.53	34.69	17.85	34.79	2885	W
57	35	3811.9	7130.3	14	6	2017	22:56	3017	20.29	34.65	11.18	35.41	2815	B
58.001	36	3800.5	7129.9	15	6	2017	0:35	3133	23.03	35.04	18.22	34.84	3108	T
58.002	36	3800.5	7129.9	15	6	2017	0:38	3133	22.97	35.03	18.26	34.80	3108	T
59	36	3800.3	7129.7	15	6	2017	0:53	3136	22.02	34.72	11.95	35.50	2931	B
60	37	3747.9	7129.7	15	6	2017	2:39	3308	22.68	34.46	11.24	35.41	3105	B
61	38	3736.2	7130.5	15	6	2017	4:17	3528	20.99	34.55	11.40	35.43	3326	B
62.001	39	3730.1	7130.4	15	6	2017	5:31	3599	23.02	34.85	24.65	36.41	3574	T
62.002	39	3730.1	7130.4	15	6	2017	5:35	3599	23.14	34.97	24.67	36.33	3574	T

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
63	39	3730.0	7129.0	15	6	2017	5:51	3626	25.39	36.03	12.48	35.59	3424	B
64.001	40	3724.0	7129.6	15	6	2017	7:14	3718	25.38	35.45	25.88	36.35	3697	T
64.002	40	3724.0	7129.6	15	6	2017	7:17	3718	25.42	35.47	25.77	36.34	3696	T
64.003	40	3724.0	7129.6	15	6	2017	7:20	3718	25.45	35.46	25.70	36.36	3695	T
64.004	40	3724.0	7129.6	15	6	2017	7:23	3718	25.35	35.44	25.98	36.34	3700	T
65	40	3724.0	7128.2	15	6	2017	7:50	3742	25.31	35.37	15.44	36.06	3526	B
66.001	41	3717.9	7129.7	15	6	2017	9:15	3830	25.82	35.24	26.62	36.35	3808	T
66.002	41	3717.9	7129.7	15	6	2017	9:20	3830	25.88	35.28	26.53	36.36	3806	T
67	41	3717.9	7129.8	15	6	2017	9:35	3828	25.93	35.50	15.49	36.06	3624	B
68.001	42	3711.9	7129.6	15	6	2017	10:56	3934	26.63	35.91	27.07	36.37	3913	T
68.002	42	3711.9	7129.6	15	6	2017	11:01	3934	26.64	35.94	27.07	36.37	3913	T
69	42	3712.1	7129.5	15	6	2017	11:15	3933	26.28	35.62	18.71	36.44	3730	B
70	42	3712.3	7128.7	15	6	2017	11:51	3942	26.40	35.71	26.38	36.49	3936	W
71.001	43	3647.6	7215.4	15	6	2017	20:07	3463	27.97	36.34	27.69	36.34	3438	T
71.002	43	3647.6	7215.4	15	6	2017	20:13	3463	27.97	36.34	27.69	36.34	3438	T
72	43	3647.7	7214.8	15	6	2017	20:30	3471	27.94	36.34	21.33	36.60	3318	B
73	43	3647.9	7213.2	15	6	2017	21:12	3488	27.90	36.34	27.75	36.34	3473	W
74	44	3718.2	7344.9	16	6	2017	9:22	2213	20.52	35.05	11.75	35.48	2010	B
75	44	3718.2	7343.8	16	6	2017	9:50	2231	20.52	35.08	20.16	35.10	2220	W
76	45	3718.1	7400.3	16	6	2017	11:26	2088	20.64	34.89	11.56	35.45	1885	B
77	46	3717.5	7414.1	16	6	2017	13:18	1374	19.58	33.81	11.72	35.48	1172	B
78	47	3717.9	7430.7	16	6	2017	15:14	152	19.50	33.28	12.54	35.46	5	B
79	48	3659.9	7430.2	16	6	2017	17:22	1333	20.61	32.94	12.11	35.52	1131	B
80	49	3659.9	7415.4	16	6	2017	19:23	1871	20.69	33.77	11.61	35.46	1668	B
81.001	50	3700.3	7400.9	16	6	2017	21:07	2234	23.67	34.86	22.23	36.16	2208	T
81.002	50	3700.3	7400.9	16	6	2017	21:11	2234	23.80	34.78	22.41	36.16	2208	T
81.003	50	3700.3	7400.9	16	6	2017	21:15	2234	23.59	34.61	23.16	36.16	2210	T

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
82	50	3700.2	7359.8	16	6	2017	21:30	2249	24.38	35.24	11.84	35.49	2048	B
83.001	51	3659.9	7345.4	16	6	2017	23:19	2659	24.62	34.63	22.90	35.30	2634	T
83.002	51	3659.9	7345.4	16	6	2017	23:25	2659	24.61	34.67	23.11	35.34	2634	T
84	51	3659.8	7345.9	16	6	2017	23:43	2671	23.98	34.45	11.80	35.48	2468	B
85.001	52	3700.1	7332.7	17	6	2017	1:17	2759	25.33	32.96	25.63	36.28	2733	T
85.002	52	3700.1	7332.7	17	6	2017	1:21	2759	25.46	32.85	25.63	36.28	2733	T
85.003	52	3700.1	7332.7	17	6	2017	1:24	2759	25.50	32.74	25.77	36.37	2731	T
86	52	3700.2	7333.2	17	6	2017	1:42	2752	25.56	32.87	12.61	35.62	2545	B
87.001	53	3700.0	7325.3	17	6	2017	2:47	2839	27.46	36.45	25.95	36.41	2814	T
87.002	53	3700.0	7325.3	17	6	2017	2:52	2839	27.46	36.45	25.72	36.42	2812	T
88	53	3700.0	7325.4	17	6	2017	3:08	2838	27.35	36.44	13.07	35.68	2635	B
89	53	3700.1	7325.4	17	6	2017	3:31	2836	27.30	36.43	27.12	36.43	2829	W
90.001	54	3700.2	7317.6	17	6	2017	4:16	2955	28.17	36.43	27.05	36.43	2928	T
90.002	54	3700.2	7317.6	17	6	2017	4:20	2955	28.02	36.42	26.89	36.42	2923	T
90.003	54	3700.2	7317.6	17	6	2017	4:23	2955	27.96	36.42	27.07	36.43	2930	T
91	54	3700.1	7317.9	17	6	2017	4:40	2951	28.02	36.38	13.51	35.74	2733	B
92.001	55	3642.1	7344.7	17	6	2017	9:23	2770	22.64	32.87	20.25	34.04	2747	T
92.002	55	3642.1	7344.7	17	6	2017	9:26	2770	22.61	32.88	20.20	33.81	2748	T
92.003	55	3642.1	7344.7	17	6	2017	9:29	2770	22.59	32.89	19.91	33.79	2748	T
93	55	3642.4	7344.7	17	6	2017	9:41	2760	22.24	33.01	12.25	35.56	2557	B
94	55	3643.0	7345.0	17	6	2017	10:07	2757	22.30	32.96	20.27	33.18	2749	W
95.001	56	3641.5	7352.2	17	6	2017	11:00	2650	23.23	33.23	25.14	36.03	2627	T
95.002	56	3641.5	7352.2	17	6	2017	11:03	2650	24.14	33.40	25.33	36.17	2628	T
95.003	56	3641.5	7352.2	17	6	2017	11:06	2650	24.29	33.49	25.59	36.31	2627	T
96	56	3641.6	7352.7	17	6	2017	11:20	2643	24.49	33.57	10.39	35.29	2440	B
97.001	57	3642.1	7400.2	17	6	2017	12:26	2499	26.02	35.31	25.51	36.36	2477	T
97.002	57	3642.1	7400.2	17	6	2017	12:29	2499	26.11	35.52	25.47	36.36	2476	T

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
97.003	57	3642.1	7400.2	17	6	2017	12:33	2499	26.01	35.28	25.59	36.36	2478	T
98	57	3642.2	7400.2	17	6	2017	12:51	2501	25.96	35.18	10.55	35.34	2298	B
99.001	58	3642.2	7411.3	17	6	2017	14:14	2199	24.11	34.91	23.32	35.70	2175	T
99.002	58	3642.2	7411.3	17	6	2017	14:15	2199	24.18	34.96	23.43	35.73	2175	T
99.003	58	3642.2	7411.3	17	6	2017	14:19	2199	24.20	34.96	22.92	35.69	2174	T
100	58	3641.9	7411.7	17	6	2017	14:31	2189	24.38	35.12	10.83	35.36	1985	B
101	59	3642.3	7423.4	17	6	2017	15:56	1756	20.59	33.33	11.64	35.47	1553	B
102	60	3633.1	7423.7	17	6	2017	17:20	1980	21.25	32.25	12.42	35.56	1775	B
103	61	3633.1	7432.6	17	6	2017	18:29	1596	19.83	32.97	13.75	35.79	1391	B
104.001	62	3624.5	7433.0	17	6	2017	19:51	1833	23.48	34.50	11.68	34.04	1807	T
104.002	62	3624.5	7433.0	17	6	2017	19:54	1833	24.16	35.29	11.64	34.02	1808	T
104.003	62	3624.5	7433.0	17	6	2017	19:57	1833	23.77	34.78	10.08	33.68	1806	T
105	62	3624.0	7433.9	17	6	2017	20:15	1839	22.24	33.78	12.45	35.55	1637	B
106.001	63	3624.4	7423.8	17	6	2017	21:49	2050	21.55	33.05	19.02	35.23	2024	T
106.002	63	3624.4	7423.8	17	6	2017	21:52	2050	21.49	33.06	20.53	35.43	2025	T
106.003	63	3624.4	7423.8	17	6	2017	21:55	2050	21.49	33.04	20.59	35.43	2025	T
107	63	3624.1	7424.6	17	6	2017	22:13	2040	21.28	33.01	12.67	35.57	1837	B
108.001	64	3624.7	7414.5	17	6	2017	23:42	2278	27.30	35.87	25.25	36.38	2252	T
108.002	64	3624.7	7414.5	17	6	2017	23:45	2278	27.34	35.95	25.62	36.33	2253	T
108.003	64	3624.7	7414.5	17	6	2017	23:47	2278	27.25	35.75	24.78	36.38	2251	T
109	64	3624.4	7414.8	18	6	2017	0:06	2253	27.30	35.95	12.83	35.64	2051	B
110.001	65	3624.1	7405.9	18	6	2017	1:16	2500	27.62	36.28	24.32	36.41	2474	T
110.002	65	3624.1	7405.9	18	6	2017	1:20	2500	27.62	36.28	24.45	36.43	2475	T
110.003	65	3624.1	7405.9	18	6	2017	1:23	2500	27.63	36.27	24.21	36.38	2473	T
111	65	3624.2	7406.3	18	6	2017	1:43	2496	27.58	36.27	12.64	35.61	2293	B
112.001	66	3615.1	7414.9	18	6	2017	3:43	2169	27.26	36.23	26.30	36.37	2144	T
112.002	66	3615.1	7414.9	18	6	2017	3:46	2169	27.25	36.24	26.30	36.37	2143	T

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast	Sta	Lat	Long	Day	Mo	Year	Time	Btm	Sfc	Sfc	Deepest Observed	Deepest Observed	Meters from	Method of
#	#	(deg N)	(deg W)				(GMT)	Depth (m)	Temp (deg C)	Salt	Temp (deg C)	Salt	Bottom	Deployment
112.003	66	3615.1	7414.9	18	6	2017	3:50	2169	27.25	36.24	26.19	36.40	2143	T
113	66	3615.3	7415.2	18	6	2017	4:09	2170	27.16	36.27	12.45	35.57	1963	B
114.001	67	3615.0	7423.7	18	6	2017	5:25	1983	26.73	35.52	25.52	36.34	1957	T
114.002	67	3615.0	7423.7	18	6	2017	5:28	1983	26.73	35.52	26.11	36.40	1958	T
114.003	67	3615.0	7423.7	18	6	2017	5:32	1983	26.73	35.54	26.13	36.41	1958	T
115	67	3614.7	7424.0	18	6	2017	5:49	2001	26.45	35.49	11.99	35.52	1799	B
116.001	68	3614.8	7432.9	18	6	2017	7:05	1452	21.06	33.02	14.46	33.52	1430	T
116.002	68	3614.8	7432.9	18	6	2017	7:07	1452	21.05	33.01	13.63	33.62	1429	T
116.003	68	3614.8	7432.9	18	6	2017	7:11	1452	21.08	33.01	13.56	33.74	1429	T
117	68	3614.4	7433.2	18	6	2017	7:22	1416	21.19	33.02	11.63	35.46	1213	B
118	69	3606.1	7432.7	18	6	2017	8:46	1645	24.13	34.37	11.50	35.44	1442	B
119.001	70	3606.4	7423.4	18	6	2017	10:05	2045	26.57	34.76	26.60	36.44	2024	T
119.002	70	3606.4	7423.4	18	6	2017	10:08	2045	26.57	34.74	26.65	36.44	2023	T
119.003	70	3606.4	7423.4	18	6	2017	10:12	2045	26.58	34.76	26.70	36.44	2024	T
120	70	3606.3	7424.1	18	6	2017	10:26	2039	26.62	34.72	12.07	35.53	1836	B
121.001	71	3606.4	7414.4	18	6	2017	11:55	2290	25.62	32.48	26.17	36.37	2266	T
121.002	71	3606.4	7414.4	18	6	2017	11:58	2290	25.69	32.62	26.22	36.38	2268	T
121.003	71	3606.4	7414.4	18	6	2017	12:02	2290	25.70	32.71	26.23	36.38	2268	T
122	71	3606.6	7414.7	18	6	2017	12:14	2282	25.64	32.40	13.28	35.70	2076	B
123.001	72	3605.9	7405.5	18	6	2017	13:26	2622	26.74	35.86	27.12	36.37	2600	T
123.002	72	3605.9	7405.5	18	6	2017	13:29	2622	26.65	35.70	27.12	36.37	2600	T
123.003	72	3605.9	7405.5	18	6	2017	13:32	2622	26.63	35.68	27.11	36.37	2600	T
124	72	3606.4	7405.6	18	6	2017	13:45	2611	26.25	32.83	15.63	36.07	2408	B
125.001	73	3557.4	7414.6	18	6	2017	16:10	2304	26.42	35.34	26.89	36.32	2282	T
125.002	73	3557.4	7414.6	18	6	2017	16:13	2304	26.41	35.29	26.88	36.32	2281	T
125.003	73	3557.4	7414.6	18	6	2017	16:15	2304	26.43	35.35	26.89	36.31	2281	T
126	73	3557.2	7415.0	18	6	2017	16:32	2293	26.19	34.73	16.47	36.17	2114	B

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment
127.001	74	3556.9	7423.9	18	6	2017	17:55	2045	25.13	31.19	25.58	36.26	2023	T
127.002	74	3556.9	7423.9	18	6	2017	17:58	2045	25.16	31.33	25.66	36.28	2023	T
127.003	74	3556.9	7423.9	18	6	2017	18:01	2045	25.14	31.29	25.55	36.26	2022	T
128	74	3557.1	7424.1	18	6	2017	18:13	2023	25.08	31.24	13.33	35.70	1819	B
129.001	75	3556.9	7433.2	18	6	2017	19:26	1912	25.49	34.30	23.94	35.78	1886	T
129.002	75	3556.9	7433.2	18	6	2017	19:29	1912	25.49	34.31	23.96	35.74	1887	T
129.003	75	3556.9	7433.2	18	6	2017	19:32	1912	25.48	34.37	24.57	35.86	1887	T
130	75	3556.6	7433.8	18	6	2017	19:51	1904	25.65	34.61	11.50	35.45	1702	B
131.001	76	3548.5	7432.7	18	6	2017	21:17	1744	24.07	31.70	25.90	36.33	1719	T
131.002	76	3548.5	7432.7	18	6	2017	21:20	1744	24.03	31.71	25.87	36.32	1719	T
131.003	76	3548.5	7432.7	18	6	2017	21:24	1744	24.01	31.71	25.88	36.32	1719	T
132	76	3548.4	7433.1	18	6	2017	21:41	1721	23.91	31.81	10.24	35.29	1517	B
133.001	77	3548.3	7423.6	18	6	2017	22:58	2133	25.27	31.56	25.46	36.26	2097	T
133.002	77	3548.3	7423.6	18	6	2017	23:03	2133	25.14	31.12	25.87	36.25	2109	T
134	77	3548.5	7423.7	18	6	2017	23:22	2126	24.97	30.70	13.01	35.67	1922	B
135.001	78	3548.1	7415.1	19	6	2017	0:30	2482	27.17	36.31	27.09	36.35	2457	T
135.002	78	3548.1	7415.1	19	6	2017	0:34	2482	27.16	36.30	27.08	36.35	2456	T
135.003	78	3548.1	7415.1	19	6	2017	0:37	2482	27.12	36.28	27.08	36.35	2457	T
136	78	3548.1	7415.3	19	6	2017	0:56	2472	26.68	36.08	16.27	36.15	2269	B
137.001	79	3547.7	7406.3	19	6	2017	2:14	2681	27.73	36.25	27.31	36.42	2655	T
137.002	79	3547.7	7406.3	19	6	2017	2:18	2681	27.68	36.25	27.31	36.42	2655	T
137.003	79	3547.7	7406.3	19	6	2017	2:22	2681	27.53	36.18	27.38	36.40	2656	T
138	79	3548.0	7406.5	19	6	2017	2:43	2679	27.52	36.18	18.14	36.45	2475	B
139.001	80	3539.0	7414.9	19	6	2017	5:51	2579	27.30	36.11	27.15	36.44	2553	T
139.002	80	3539.0	7414.9	19	6	2017	5:54	2579	27.31	36.12	27.15	36.44	2554	T
139.003	80	3539.0	7414.9	19	6	2017	5:57	2579	27.31	36.13	27.13	36.45	2554	T
140	80	3539.1	7414.8	19	6	2017	6:18	2582	27.28	36.11	18.14	36.39	2378	B

GU1702 Tuna Slope Survey
June 11 - 22, 2017

Cast #	Sta #	Lat (deg N)	Long (deg W)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (deg C)	Sfc Salt	Deepest	Deepest	Meters	Method	
											Observed Temp (deg C)	Observed Salt	from Bottom	of Deployment	
141.001	81	3538.4	7424.5	19	6	2017	8:18	2453	26.22	35.50	26.46	35.98	2431	T	
141.002	81	3538.4	7424.5	19	6	2017	8:21	2453	26.06	35.15	26.85	36.33	2428	T	
141.003	81	3538.4	7424.5	19	6	2017	8:25	2453	26.10	35.18	26.46	35.97	2432	T	
	142	81	3538.7	7424.2	19	6	2017	8:39	2425	25.65	34.32	14.75	35.88	2222	B
143.001	82	3538.5	7433.7	19	6	2017	10:16	2075	25.06	32.57	25.98	36.32	2054	T	
143.002	82	3538.5	7433.7	19	6	2017	10:19	2075	25.10	32.60	26.07	36.31	2054	T	
143.003	82	3538.5	7433.7	19	6	2017	10:22	2075	25.04	32.74	26.12	36.32	2054	T	
	144	82	3538.6	7433.6	19	6	2017	10:36	2074	25.48	33.43	13.12	35.68	1869	B
145.001	83	3529.4	7424.0	19	6	2017	12:31	2589	27.59	36.23	27.57	36.39	2566	T	
145.002	83	3529.4	7424.0	19	6	2017	12:34	2589	27.60	36.24	27.58	36.36	2568	T	
145.003	83	3529.4	7424.0	19	6	2017	12:37	2589	27.60	36.25	27.61	36.39	2567	T	
	146	83	3529.7	7423.6	19	6	2017	12:52	2581	27.53	36.24	19.63	36.68	2378	B
	147	83	3530.6	7422.6	19	6	2017	13:20	2453	27.53	36.24	27.53	36.25	2443	W
148.001	84	3529.5	7433.0	19	6	2017	15:20	2178	27.01	36.14	27.12	36.27	2155	T	
148.002	84	3529.5	7433.0	19	6	2017	15:23	2178	27.01	36.14	27.16	36.30	2155	T	
148.003	84	3529.5	7433.0	19	6	2017	15:26	2178	27.01	36.14	27.04	36.21	2157	T	
	149	84	3529.8	7432.6	19	6	2017	15:41	2165	27.08	36.20	16.63	36.20	1961	B
	150	85	3411.9	7654.9	20	6	2017	14:36	30	26.43	35.53	26.36	35.51	19	W
	151	85	3411.5	7655.5	20	6	2017	14:45	28	26.45	35.52	24.88	36.27	3	B
	152	86	3408.9	7652.8	20	6	2017	15:29	31	26.65	35.43	25.38	36.35	4	B
	153	87	3405.4	7648.3	20	6	2017	16:20	35	27.08	35.47	25.05	36.45	6	B
	154	88	3401.9	7644.0	20	6	2017	17:08	37	26.95	35.92	23.97	36.46	6	B
	155	89	3357.7	7638.5	20	6	2017	18:03	42	26.60	35.08	23.28	36.45	4	B
	156	90	3354.8	7635.1	20	6	2017	18:57	41	26.22	35.72	23.30	36.44	4	B
	157	91	3351.7	7630.2	20	6	2017	19:45	69	28.27	36.17	24.75	36.41	6	B
	158	92	3347.4	7626.8	20	6	2017	20:38	242	28.31	36.11	18.26	36.49	40	B
	159	93	3344.2	7622.4	20	6	2017	22:01	383	28.29	36.20	18.91	36.50	179	B

GU1702 Tuna Slope Survey
June 11 - 22, 2017

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
161	94	3310.2	7742.8	21	6	2017	6:46	48	26.92	36.27	22.19	36.44	4	B
162	95	3305.8	7733.0	21	6	2017	8:01	158	27.69	36.29	17.99	36.41	6	B
163	96	3301.3	7722.3	21	6	2017	9:32	280	27.95	36.19	11.37	35.43	76	B
164	97	3255.9	7712.4	21	6	2017	11:01	380	27.20	36.36	9.42	35.19	178	B
165	97	3255.5	7713.1	21	6	2017	11:34	381	27.21	36.36	27.19	36.35	371	W
166	98	3030.0	7942.1	22	6	2017	14:01	628	28.63	36.19	19.48	36.68	424	B
167	99	3030.0	7948.0	22	6	2017	15:09	552	28.70	36.28	18.79	36.58	348	B
168	100	3030.0	7953.8	22	6	2017	16:20	445	28.76	36.27	15.52	35.98	239	B

Deployment codes: B=bongo cast; W=water cast; O="Neuston" net towed to 25m. depth; and T=Tow-yo