

Oceanography Branch CTD Data Report
CTD_REPORT_2015003HB

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DATE: December 2, 2015

Oceanography Branch CTD Data Report

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

HB 15-03
AMAPPS
Data Coverage: June 11 – July 1, 2015
Georges Bank, off Shelf edge

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's HB1503 AMAPPS Survey aboard the NOAA FSV *Henry B Bigelow*. Data was obtained with two Seabird Electronics SBE Model 19+ profiling CTDs s/n 4887 and s/n 7143; a Seabird Electronics SBE Model 9/11+ CTD (s/n 0832) was also used. Sea water samples were taken for the purpose of correcting conductivity. A dissolved oxygen sensor (SBE43-1957) was attached to the 9/11+ CTD as well as a PAR sensor.

Data presented here have been audited, however, corrections and/or updates may be applied at a later time.

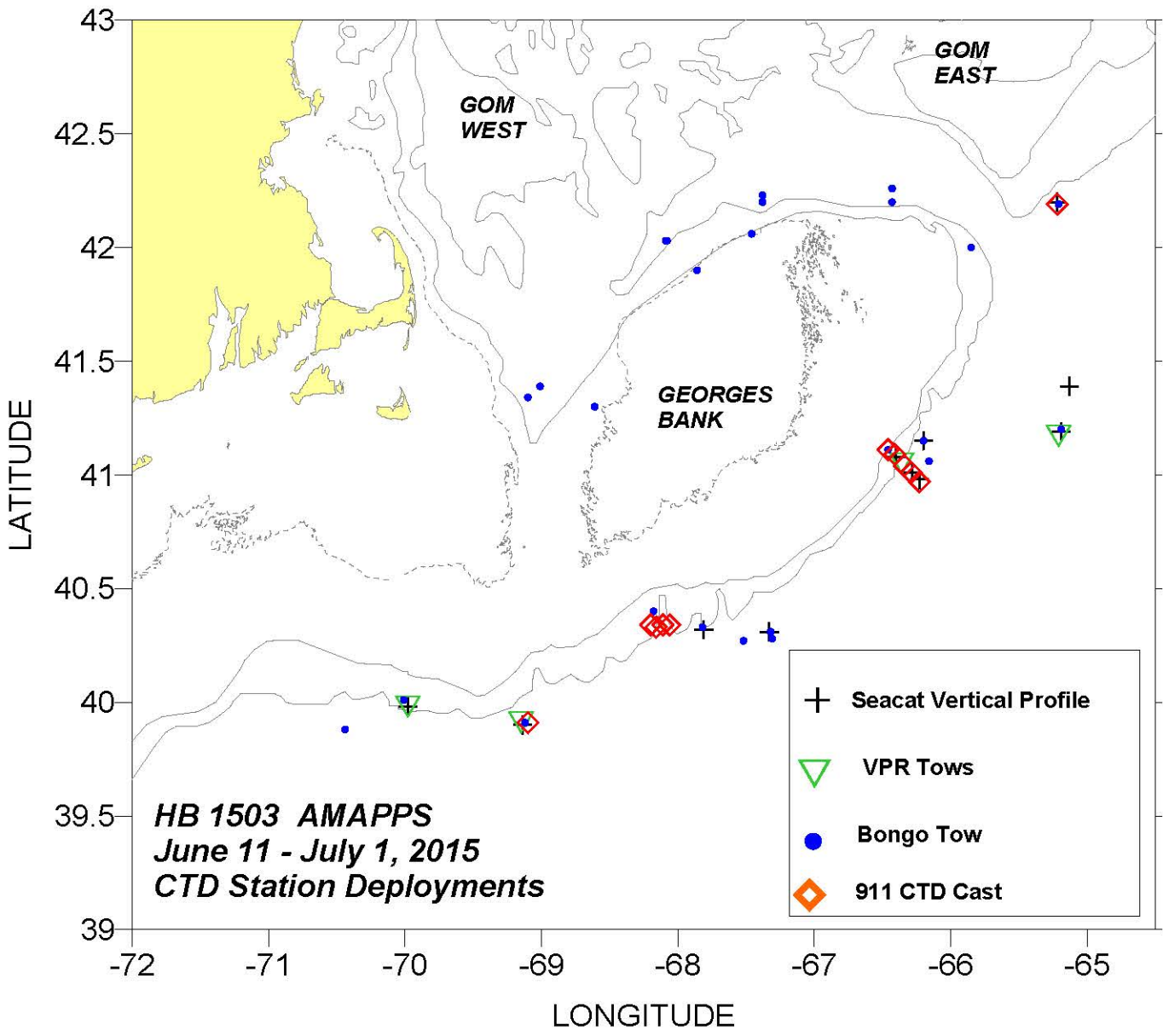
The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/hb1503.dat>

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

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

choose: **2015 Cruises**
JUN_AMAPPS_HB1503
CTD_REPORT_2015003HB.pdf

Revised: December 2, 2015



**HB 1503 AMAPPS
June 11 - July 1, 2015
CTD Station Deployments**

- + Seacat Vertical Profile
- ▽ VPR Tows
- Bongo Tow
- ◇ 911 CTD Cast

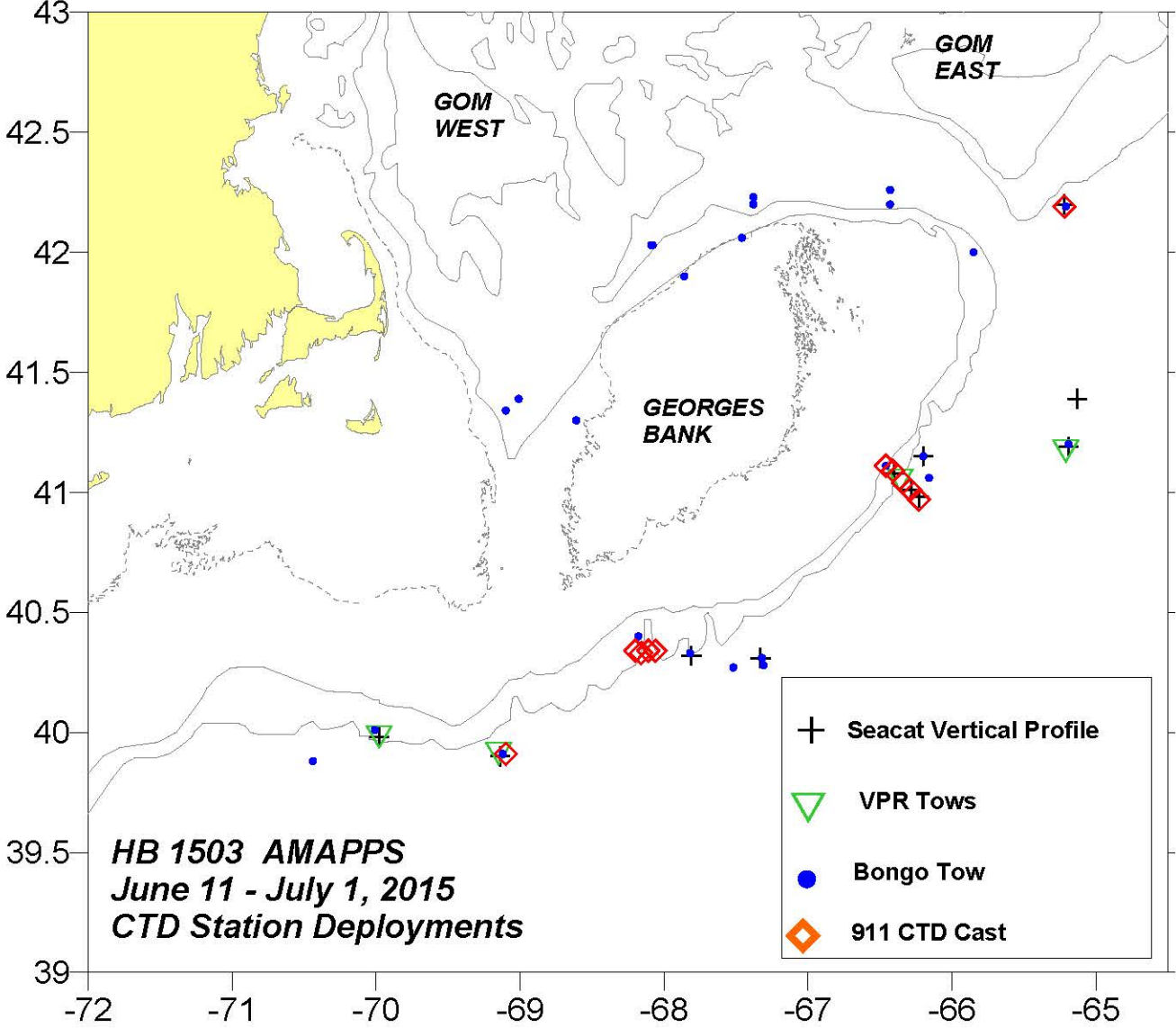
GOM WEST

GOM EAST

GEORGES BANK

LATITUDE

LONGITUDE



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
HB1503 AMAPPS Survey
June 11 - July 1, 2015**

CRUISE	CD	SURFACE						BOTTOM						Purpose	
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag		
		Georges Bank													
hb1503	174	12	16.98	3.58	0.53	3.63	0	9	8.79	1.77	0.58	1.08	0	93	
hb1503	174	12	34.02	1.03	0.19	1.37	0	9	34.38	0.55	0.21	0.67	0	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

HB1503 AMAPPS Survey
June 11 - July 1, 2015

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	4117.9	6836.8	11	6	2015	12:48	71	10.33	32.79	8.35	32.80	6	B
2	2	4120.6	6906.2	12	6	2015	1:32	162	13.53	31.63	4.72	33.13	4	B
3	3	4123.3	6900.3	12	6	2015	9:30	152	12.93	31.96	4.51	33.03	3	B
4	4	4201.8	6804.8	12	6	2015	23:16	222	13.86	32.50	8.12	34.68	5	B
5	5	4154.2	6751.3	13	6	2015	4:03	52	13.46	32.41	7.97	32.95	4	B
6	6	4201.6	6805.7	13	6	2015	9:22	224	13.40	32.53	8.16	34.71	22	B
7	7	4213.6	6722.5	13	6	2015	23:21	246	12.46	32.67	8.56	34.92	2	B
8	8	4203.6	6727.7	14	6	2015	4:03	56	11.27	32.81	6.28	33.06	5	B
9	9	4212.1	6722.5	14	6	2015	9:09	227	12.44	32.67	8.59	34.93	4	B
10	10	4215.7	6626.0	15	6	2015	0:08	254	12.15	32.52	8.90	34.92	3	B
11	11	4212.2	6625.7	15	6	2015	9:08	211	11.54	32.51	8.71	34.83	2	B
12	12	4211.7	6626.0	15	6	2015	9:49	209	11.55	32.52	8.64	34.77	2	B
13	13	4211.3	6512.9	15	6	2015	23:58	1009	13.84	33.55	8.95	35.18	801	B
1	13	4211.6	6513.0	16	6	2015	0:39	922	13.86	33.57	9.78	35.27	733	V
14	13	4212.0	6513.5	16	6	2015	1:00	839	13.85	33.56	5.46	35.01	334	W
15	14	4200.2	6550.9	16	6	2015	9:18	202	12.15	32.50	9.22	35.21	2	B
16	15	4110.8	6611.9	16	6	2015	21:39	959	11.45	32.22	12.84	35.67	755	B
17	16	4109.2	6612.0	16	6	2015	22:59	1122	11.55	32.26	4.50	34.96	202	W
18	17	4103.4	6609.6	17	6	2015	8:54	2181	18.29	34.49	12.69	35.66	1978	B
19	18	4018.3	6719.3	17	6	2015	23:21	1636	15.61	33.71	11.30	35.47	1435	B
20	18	4018.7	6719.9	17	6	2015	23:48	1608	15.60	33.77	4.26	34.96	592	W
21	19	4016.8	6718.6	18	6	2015	9:12	1691	15.31	33.67	10.64	35.38	1450	B
22	20	4024.1	6810.8	18	6	2015	22:08	147	21.43	35.83	11.06	35.13	3	B
24	21	3958.9	6958.8	25	6	2015	9:51	163	24.27	36.02	17.65	36.41	61	V
25	21	3959.1	6959.1	25	6	2015	10:34	165	24.83	36.21	17.71	36.41	63	O
26	21	4000.4	7000.5	25	6	2015	11:10	164	24.84	36.19	16.64	36.17	57	B
27	22	3952.8	7026.1	25	6	2015	16:04	637	25.19	36.17	14.73	35.79	533	B
28	23	3954.7	6909.1	26	6	2015	1:08	1290	26.26	36.43	19.55	36.59	1174	O

HB1503 AMAPPS Survey
June 11 - July 1, 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
29	23	3953.9	6908.5	26	6	2015	1:46	1512	26.13	36.41	20.16	36.44	1410	V
30	23	3954.3	6907.3	26	6	2015	2:15	1308	26.15	36.43	20.35	36.45	1206	B
2	23	3954.3	6906.1	26	6	2015	2:40	1289	26.08	36.44	5.02	35.02	475	W
3	24	4106.6	6627.8	26	6	2015	19:25	111	12.89	32.40	9.22	34.34	7	W
31	24	4106.6	6627.9	26	6	2015	19:43	113	13.19	32.39	9.69	34.58	7	B
32	25	4104.8	6624.2	26	6	2015	20:24	653	21.30	35.58	13.01	35.29	552	W
4	25	4105.1	6624.6	26	6	2015	21:02	520	17.73	34.37	5.33	35.02	4	V
5	26	4102.5	6620.4	26	6	2015	22:06	1500	23.15	36.13	4.48	34.98	612	W
33	26	4102.8	6621.3	26	6	2015	23:01	1416	22.94	36.10	15.47	35.71	1353	O
34	27	4100.3	6617.0	27	6	2015	0:12	1877	23.06	36.09	13.81	35.76	1774	V
6	27	4100.3	6617.6	27	6	2015	0:48	1779	23.04	36.11	5.89	35.06	1270	W
7	28	4058.4	6613.6	27	6	2015	1:50	2228	NaN	NaN	6.06	35.06	1718	W
35	28	4058.8	6613.9	27	6	2015	2:26	2252	23.39	36.06	13.59	35.73	2149	V
36	29	4110.2	6512.6	27	6	2015	9:47	800	23.31	36.08	14.82	35.87	695	O
37	29	4111.4	6511.2	27	6	2015	10:16	800	23.27	36.09	14.82	35.84	696	V
38	29	4111.8	6511.3	27	6	2015	10:46	800	23.30	36.08	14.54	35.82	696	B
39	30	4123.1	6507.8	30	6	2015	11:38	2904	23.17	36.11	14.47	35.83	2801	V
40	31	4016.1	6731.0	1	7	2015	9:54	1508	22.29	35.18	11.33	34.72	1405	B
41	32	4019.5	6749.4	1	7	2015	16:20	415	20.53	34.28	10.49	34.31	313	B
42	32	4018.9	6748.5	1	7	2015	16:52	353	19.48	34.05	11.60	34.79	241	V
8	33	4020.3	6803.9	1	7	2015	18:45	162	NaN	NaN	11.71	35.20	6	W
9	34	4020.3	6806.5	1	7	2015	19:31	422	18.18	33.34	7.91	35.17	30	W
10	35	4019.9	6809.5	1	7	2015	20:54	500	19.47	34.02	6.38	35.09	4	W
11	36	4020.3	6811.9	1	7	2015	21:57	159	19.85	34.36	11.94	35.34	4	W

W=water cast; V=vertical profile; O=VPR tow

Bold records: a SBE 9/11+ was deployed