

*Oceanography Branch CTD Data Report*  
*CTD\_REPORT\_2009004HB*

**For further information, contact Tamara Holzwarth-Davis  
National Marine Fisheries Service, Northeast Fisheries  
Science Center, Woods Hole, Massachusetts 02543-1097.**

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# Oceanography Branch CTD Data Report

CTD\_REPORT\_2009004HB

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

HB 09-04  
Habitat Mapping  
Data Coverage: August 25 - 31, 2009

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2009 Habitat Mapping survey aboard the NOAA FSV *Henry B. Bigelow*. All data was obtained with Seabird Electronics SBE Model 9/11+ CTD (s/n 0832) and a 19+ profiling CTD (s/n 4887). A termination problem rendered several casts unusable, much of the salinity and density data for casts 013-018 was bad, see Appendix A for example. No salinity samples were taken for calibration purposes. All bottom depths given are estimates, please see Appendix B for explanation.

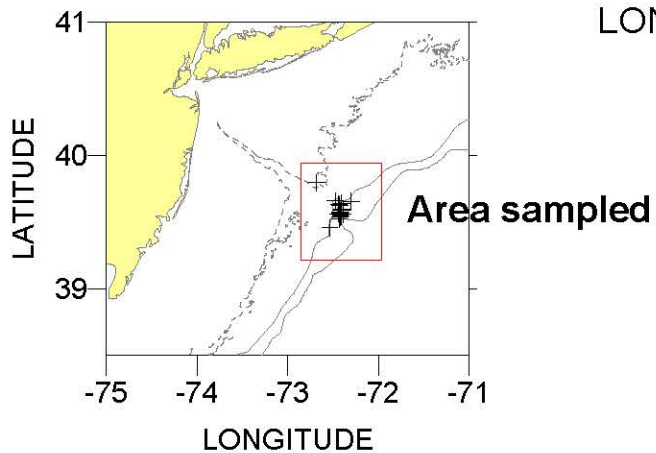
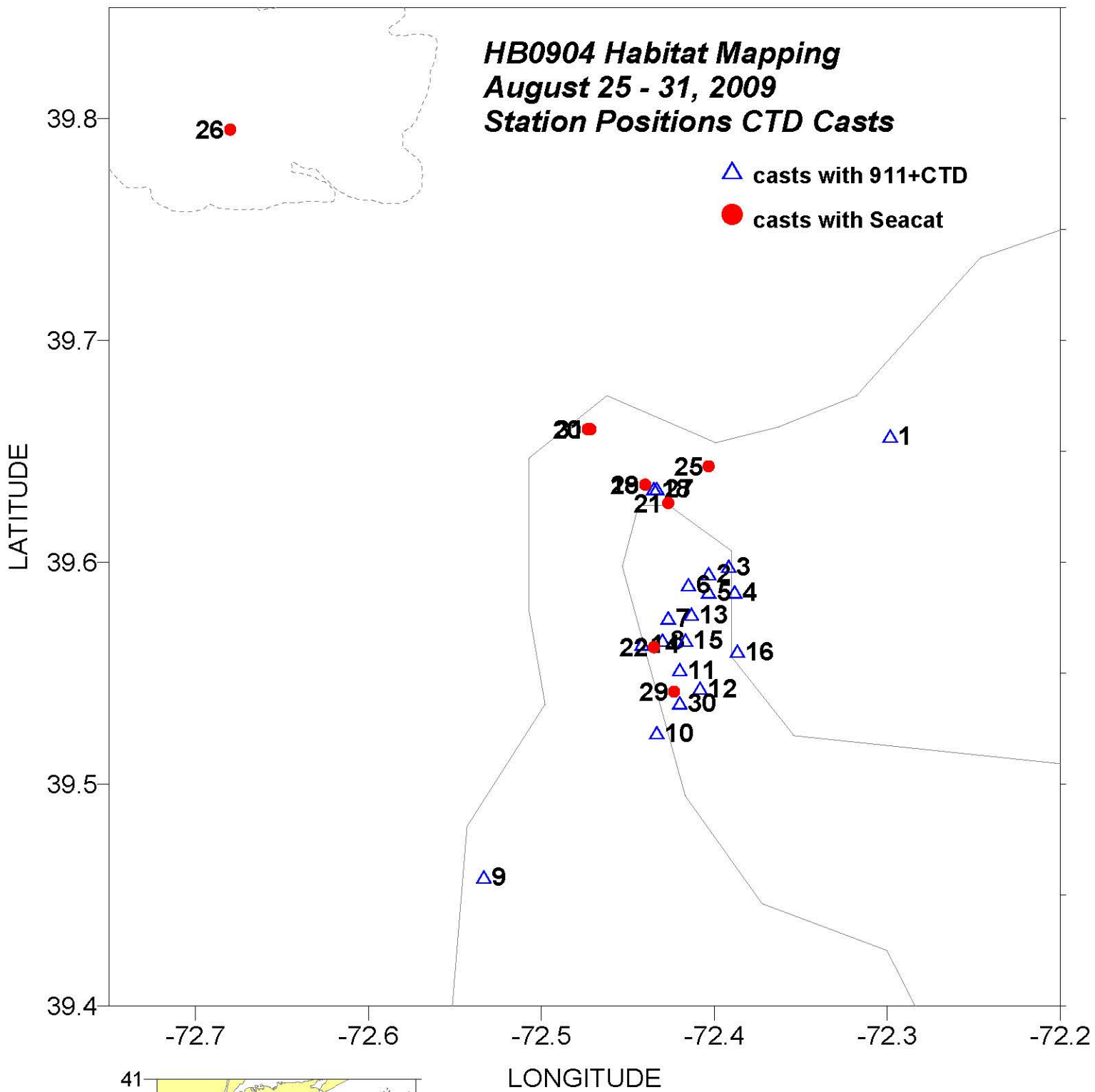
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:  
<ftp://ftp.nefsc.noaa.gov/pub/hydro/hb0904.dat>

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

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

choose: **2009 Cruises**  
**AUG\_BENTHIC\_HB0904**  
**CTD\_REPORT\_2009004HB.pdf**

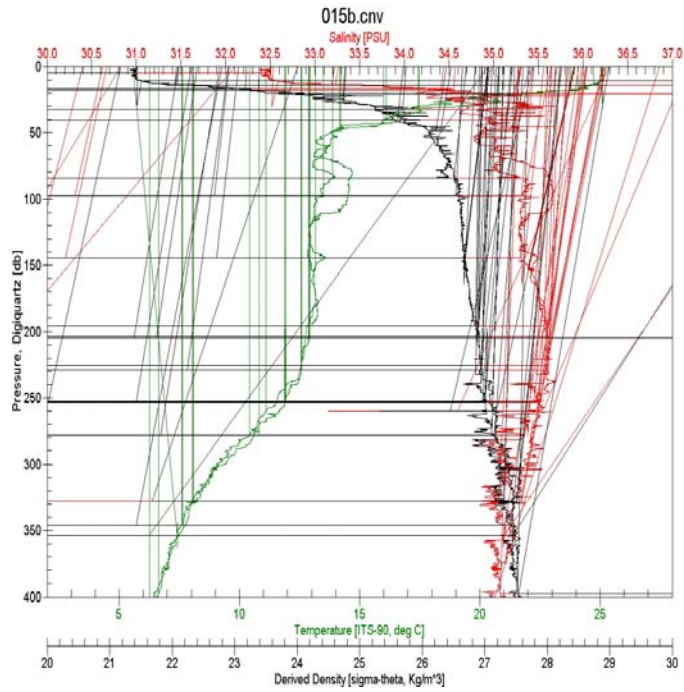
Revised: March 16, 2010



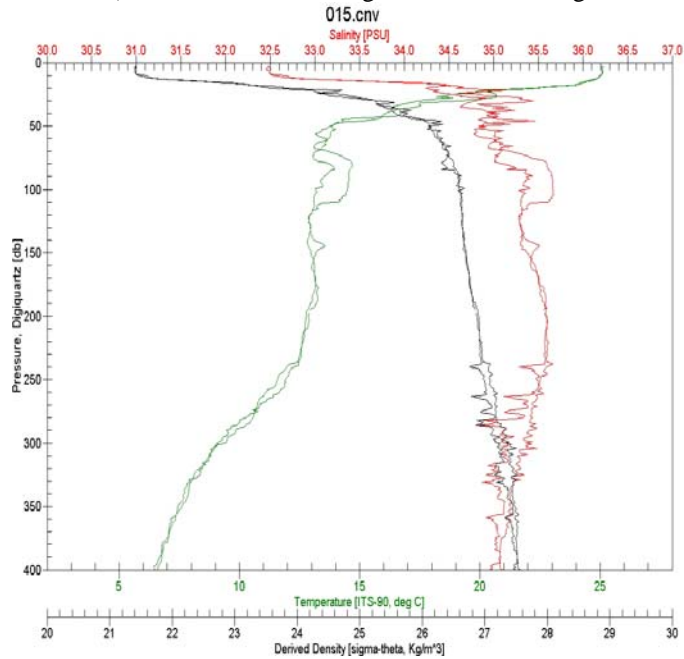
**HB0904 Habitat Mapping**  
**25-31 August, 2009**

<b>SBE Model#</b>	<b>Cast #</b>	<b>Sta #</b>	<b>Lat</b>	<b>Long</b>	<b>Day</b>	<b>Mo</b>	<b>Year</b>	<b>Time (GMT)</b>	<b>Btm Depth</b>	<b>Sfc Temp</b>	<b>Sfc Salt</b>	<b>Btm Temp</b>	<b>Btm Salt</b>	<b>Meters from Bottom</b>
9/11+	1	1	3939.4	7217.9	25	8	2009	0:26	118	24.75	33.24	13.02	35.43	9
9/11+	2	2	3935.7	7224.2	25	8	2009	1:19	386	24.30	32.75	6.34	35.05	1
9/11+	3	3	3935.9	7223.5	25	8	2009	2:43	166	24.74	32.67	12.49	35.51	5
9/11+	4	4	3935.2	7223.3	25	8	2009	3:13	180	24.50	32.72	12.39	35.51	20
9/11+	5	5	3935.2	7224.2	25	8	2009	4:10	395	24.52	32.72	6.38	35.05	23
9/11+	6	6	3935.3	7224.9	25	8	2009	5:49	413	24.33	32.76	6.27	35.04	20
9/11+	7	7	3934.5	7225.6	25	8	2009	6:56	285	24.60	32.57	9.35	35.26	6
9/11+	8	8	3933.9	7225.8	25	8	2009	8:01	314	24.68	32.53	8.40	35.18	2
9/11+	9	9	3927.5	7232.0	25	8	2009	9:25	118	24.64	32.56	12.16	34.87	4
9/11+	10	10	3931.6	7226.0	25	8	2009	10:22	137	24.66	32.62	13.18	35.45	3
9/11+	11	18	3933.1	7225.7	26	8	2009	16:16	353	24.79	32.68	7.91	35.15	20
9/11+	12	19	3932.6	7224.5	26	8	2009	17:32	545	24.95	32.88	5.27	35.02	20
9/11+	13	20	3934.6	7224.8	26	8	2009	19:19	483	24.96	32.70	5.78	35.02	20
9/11+	14	21	3933.8	7226.5	26	8	2009	21:36	184	25.20	32.44	12.70	35.39	20
9/11+	15	23	3933.9	7225.0	26	8	2009	23:01	525	25.09	32.49	5.52	35.04	20
9/11+	16	24	3933.6	7223.2	27	8	2009	0:22	118	25.01	32.52	13.55	35.56	5
9/11+	17	25	3934.7	7224.4	27	8	2009	1:01	413	25.09	32.40	6.60	35.11	20
9/11+	18	26	3938.0	7226.1	27	8	2009	2:22	343	25.23	32.32	8.00	35.19	20
19+	19	27	3938.1	7226.4	27	8	2009	3:15	317	25.17	32.30	10.58	35.37	20
19+	20	28	3939.6	7228.4	27	8	2009	4:18	207	25.46	32.30	11.87	35.44	10
19+	21	29	3937.6	7225.6	27	8	2009	5:00	384	25.11	32.29	6.60	35.06	8
19+	22	31	3933.7	7226.1	27	8	2009	10:21	257	25.08	32.35	10.45	35.35	4
19+	25	36	3938.6	7224.2	28	8	2009	11:58	226	24.83	32.34	12.32	35.48	20
19+	26	39	3947.7	7240.8	28	8	2009	17:13	59	25.32	31.65	9.78	33.12	7
9/11+	27	43	3938.0	7226.0	30	8	2009	15:16	351	24.74	31.65	8.88	35.24	15
19+	28	44	3938.1	7226.4	30	8	2009	16:16	340	24.92	31.37	9.42	35.26	20
19+	29	45	3932.5	7225.4	30	8	2009	17:16	395	25.39	30.84	8.21	35.17	26
9/11+	30	46	3932.2	7225.2	30	8	2009	17:52	383	25.33	31.12	8.10	35.16	20
19+	31	53	3939.6	7228.3	31	8	2009	22:25	214	24.54	31.51	11.70	35.46	21

Appendix A. Comparison of Raw to Processed Data.  
BEFORE (Raw Data)



AFTER, (Post Seabird Processing - still needs editing, 9fill salts)



Appendix B. Estimation of Bottom Depth.

CTD Cast #	Consecutive Station #	Maximum Sample Depth	Bottom Depth at Start of Cast	Bottom Depth at End of Cast	Difference  Start - End	Is the Difference Less than 40?	If Yes Average Bottom Depth	If No Maximum Sample Depth + 20	Accepted Estimated Bottom Depth	Exceptions
1	1	109	118	117	1	Y---->	118		118	
2	2	385	325	437	(112)	N	---->	405	405	use 386 m, CTD hit bottom
3	3	161	161	170	(9)	Y---->	166		166	
4	4	160	165	258	(93)	N	---->	180	180	
5	5	372	380	410	(30)	Y---->	395		395	
6	6	393	407	418	(11)	Y---->	413		413	
7	7	279	280	289	(9)	Y---->	285		285	
8	8	312	325	302	23	Y---->	314		314	
9	9	114	117	118	(1)	Y---->	118		118	
10	10	134	138	135	3	Y---->	137		137	
11	18	333	329	458	(129)	N	---->	353	353	
12	19	525	530	446	84	N	---->	545	545	
13	20	463	479	254	225	N	---->	483	483	
14	21	164	150	275	(125)	N	---->	184	184	
15b	23	505	488	no data		N	---->	525	525	
16	24	113	126	109	17	Y---->	118		118	
17	25	393	463	302	161	N	---->	413	413	
18	26	323	331	no data		N	---->	343	343	
19	27	297	310	no data		N	---->	317	317	
20	28	197	202	212	(10)	Y---->	207		207	
21	29	376	373	395	(22)	Y---->	384		384	
22	31	253	267	247	20	Y---->	257		257	
25	36	206	216	no data		N	---->	226	226	
26	39	52	59	no data		N	---->	72	72	use 59 m, shallow so less time for boat to drift
27	43	336	347	354	(7)	Y---->	351		351	
28	44	320	327	no data		N	---->	340	340	
29	45	369	385	405	(20)	Y---->	395		395	
30	46	363	394	349	45	N	---->	383	383	
31	53	193	209	219	(10)	Y---->	214		214	