

Oceanography Branch CTD Data Report
CTD_REPORT_2009003HB

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DATE: Revised: 10/5/2010

Oceanography Branch CTD Data Report

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

HB 09-03
Marine Mammal Survey
Data Coverage: 6 – 16 August, 2009

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's Marine Mammal research survey aboard the NOAA FSV *Henry B. Bigelow*. All data was obtained with Seabird Electronics SBE Model 19+ profiling CTDs (s/n 4684 and s/n 4477). CTD 4684 was used for bongo and water casts. CTD 4477 was used for VPR tows.

Please note there is no casts 001 and 002.

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

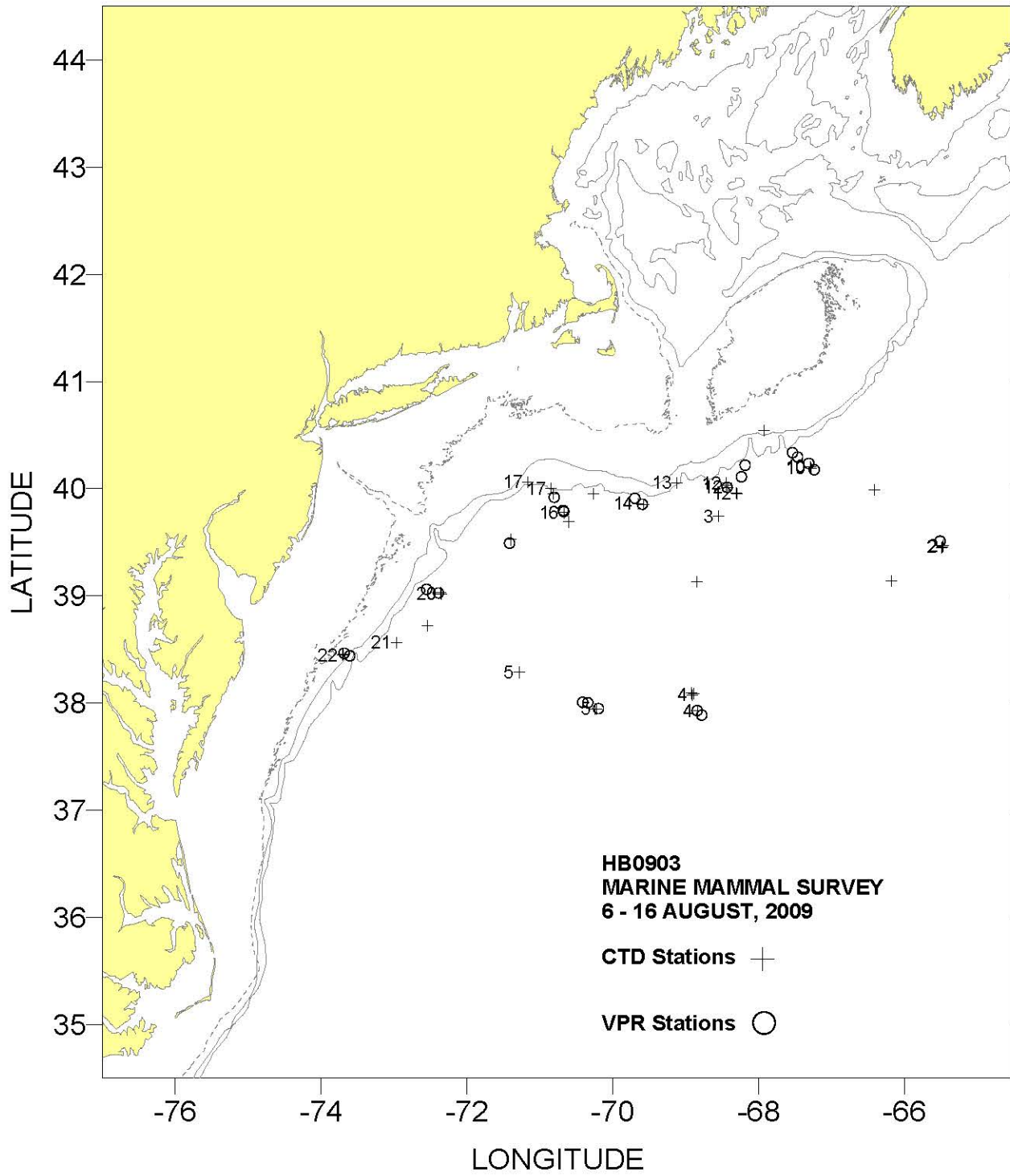
The most recent and complete station data can be found in an NODC formatted ASCII file at:

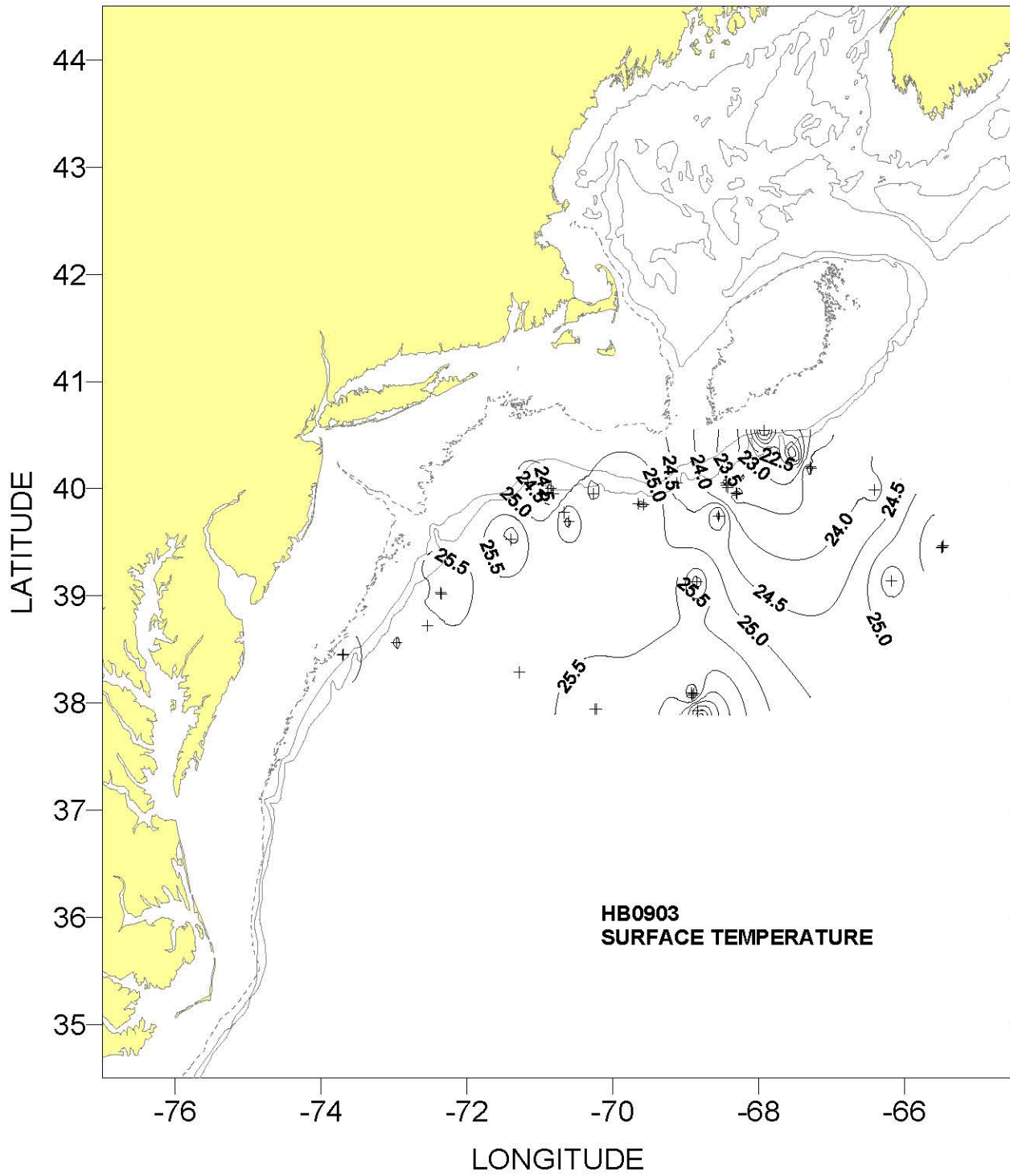
<ftp://ftp.nefsc.noaa.gov/pub/hydro/hb0903.dat>

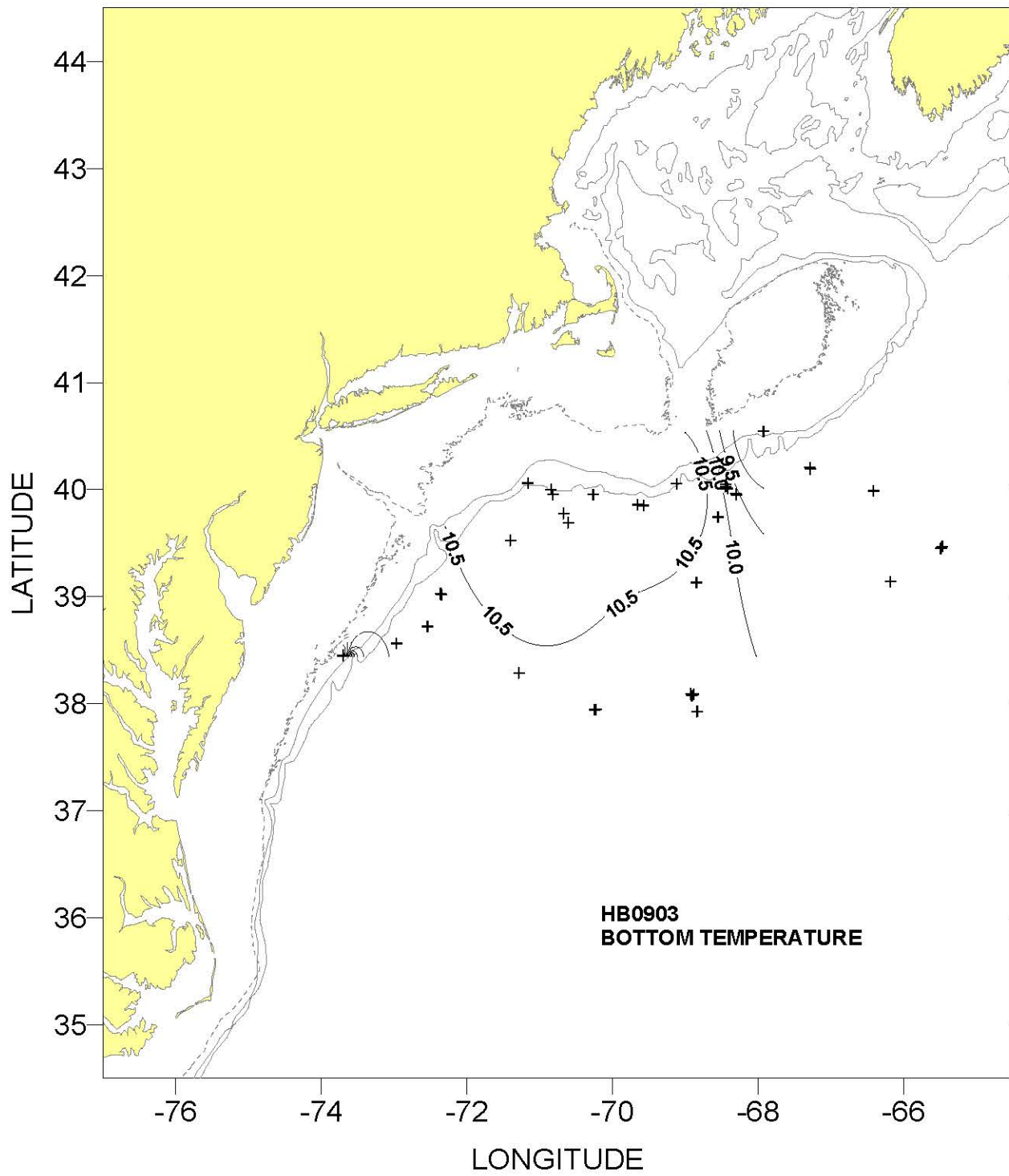
This report may be viewed on the Oceanography Branch website at:

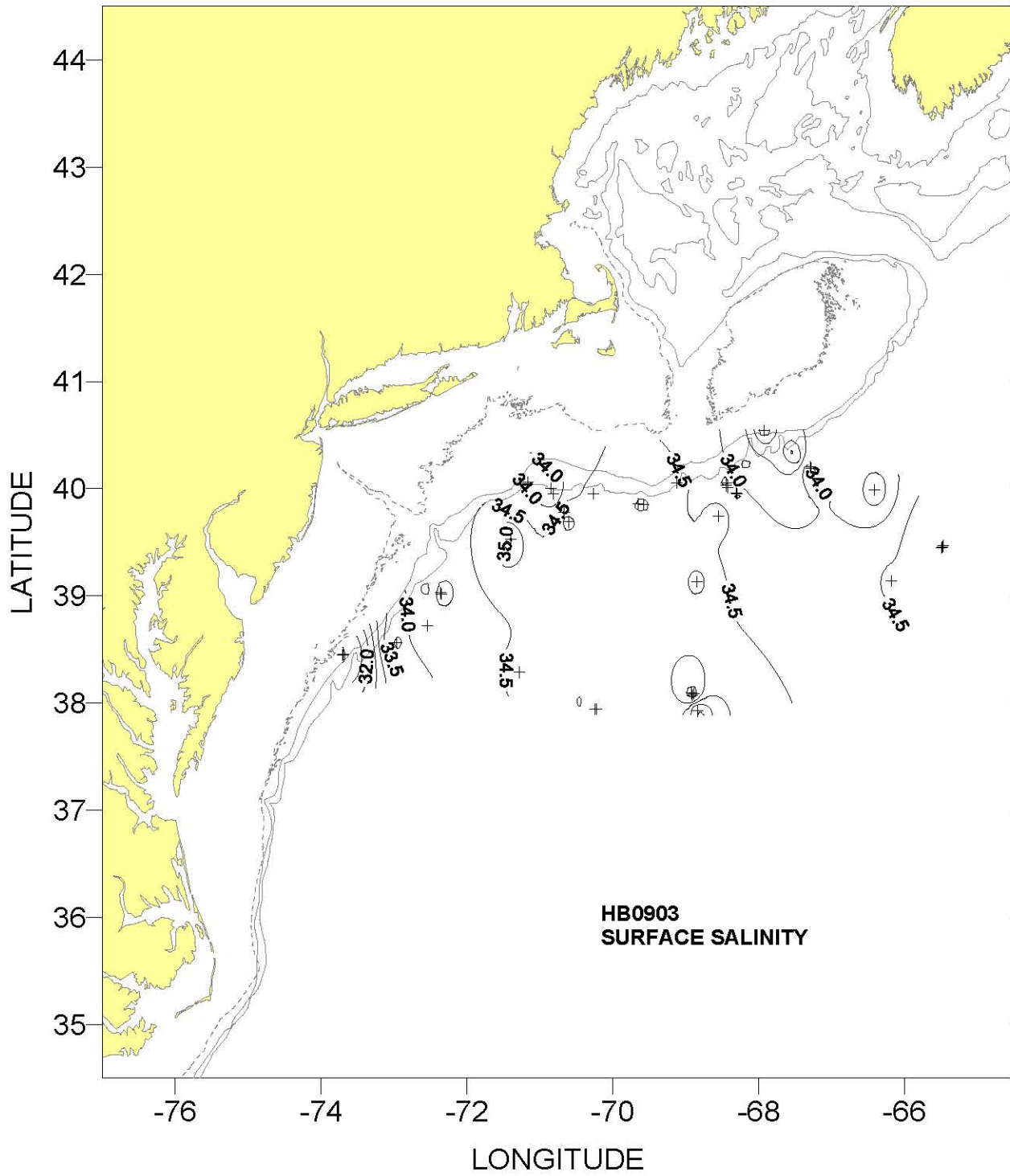
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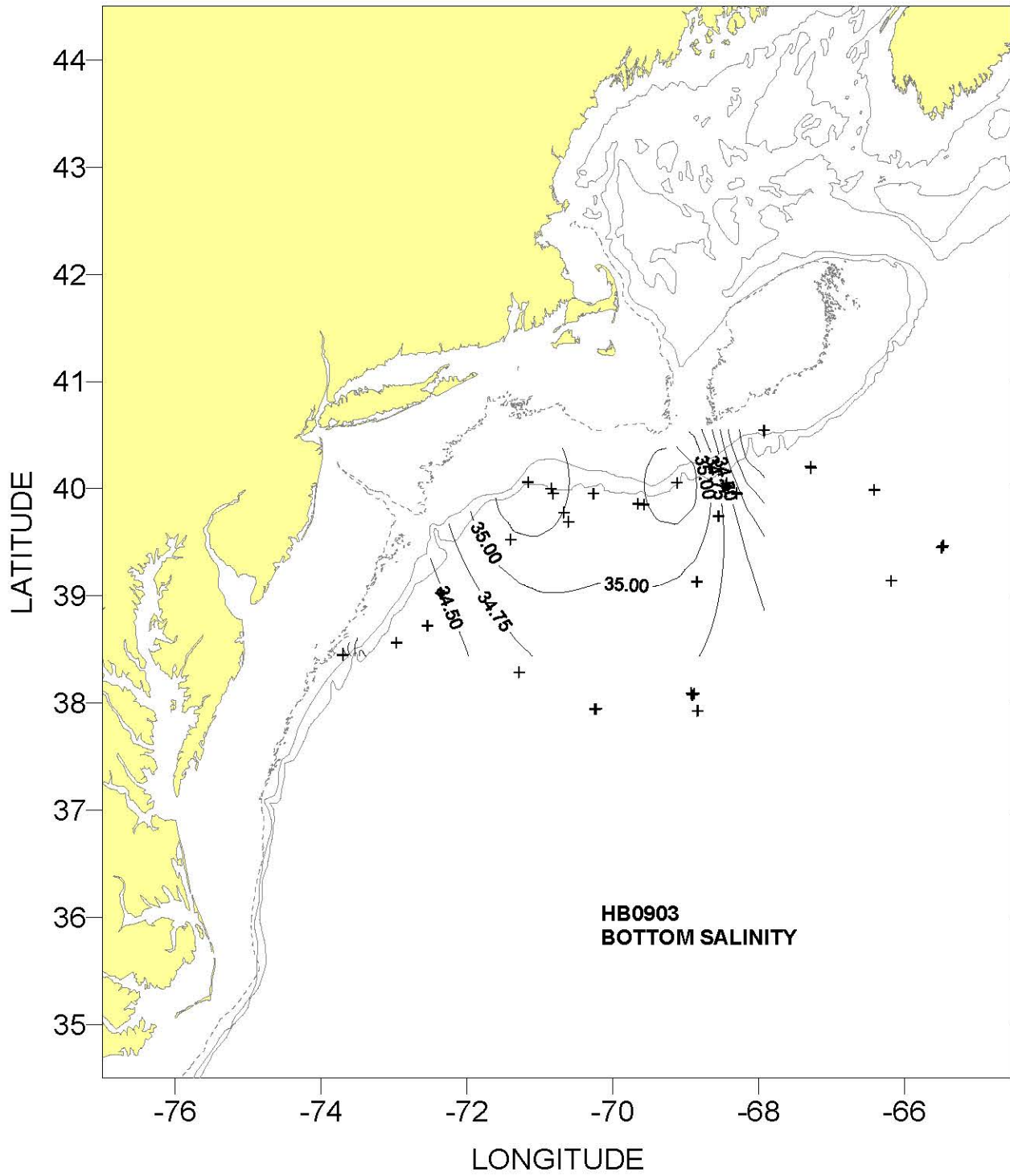
choose: **2009 Cruises**
AUG_WHALE_DELO910
CTD_REPORT_2009003HB











HB0903
MARINE MAMMAL SURVEY
6 - 16 AUGUST, 2009
CTD STATIONS

CAST #	STA #	LAT	LON	DAY	MO	YEAR	TIME	BTM DEPTH	SFC TEMP	SFC SALT	BTM TEMP	BTM SALT	METERS FROM BTM
3	20	3901.2	7220.9	6	8	2009	22:16	1531	25.9	34.68	12.3	35.57	1327
4	20	3901.7	7221.5	6	8	2009	22:55	1478	25.9	34.68	13.8	35.69	1353
5	21	3833.8	7258.1	7	8	2009	16:16	9999	25.5	34.05	11.2	35.42	9800
6	22	3827.2	7341.9	7	8	2009	22:58	72	25.0	30.87	8.4	33.47	3
7	22	3826.8	7342.1	7	8	2009	23:10	73	24.9	30.84	7.7	33.19	22
9	5	3843.3	7232.3	8	8	2009	9:04	2314	25.1	34.38	11.3	35.44	2111
10	5	3817.2	7117.0	8	8	2009	16:04	9999	25.2	34.61	11.2	35.41	9799
11	5	3756.6	7014.7	8	8	2009	22:21	3747	25.8	34.94	12.7	35.61	3543
12	5	3756.8	7013.5	8	8	2009	23:28	3762	25.7	34.95	6.1	35.04	3259
14	4	3805.5	6855.4	9	8	2009	22:16	3913	25.2	33.76	10.2	35.35	3711
15	4	3804.6	6854.5	9	8	2009	23:01	3927	25.2	33.84	5.9	35.02	3423
16	4	3805.3	6853.0	9	8	2009	23:49	3926	25.2	33.84	8.9	35.18	3648
17	4	3755.6	6850.1	10	8	2009	8:22	4062	27.8	36.00	14.1	35.68	3856
18	3	3907.9	6850.7	10	8	2009	16:13	3023	26.7	35.18	15.2	35.93	2822
19	3	3944.6	6832.8	10	8	2009	22:25	2476	25.6	34.85	12.5	35.60	2272
20	3	3944.7	6832.8	10	8	2009	23:02	2511	25.6	34.89	6.3	35.04	2007
21	12	3957.2	6817.8	11	8	2009	9:01	2259	22.3	33.54	11.7	35.50	2055
22	11	4032.8	6755.4	11	8	2009	12:10	101	19.9	32.20	8.5	33.49	8
23	10	4012.4	6717.0	11	8	2009	22:25	2271	24.5	34.57	10.5	35.33	2049
24	10	4011.6	6716.8	11	8	2009	23:06	2354	24.5	34.59	5.8	34.96	1850
25	10	4011.6	6716.9	11	8	2009	23:45	2459	24.4	34.65	12.4	35.57	2283
26	10	3959.3	6624.7	12	8	2009	16:25	3584	23.9	33.16	12.1	35.52	3383
27	2	3927.3	6528.9	12	8	2009	23:31	3256	25.8	34.90	12.6	35.60	3054
28	2	3927.1	6529.2	13	8	2009	0:09	3211	25.7	34.89	6.3	35.05	2706
29	2	3928.0	6528.1	13	8	2009	0:13	3483	25.7	34.87	14.8	35.53	3418
30	2	3908.5	6610.8	13	8	2009	16:16	4542	25.7	34.54	11.9	35.47	4341

CAST #	STA #	LAT	LON	DAY	MO	YEAR	TIME	BTM DEPTH	SFC TEMP	SFC SALT	BTM TEMP	BTM SALT	METERS FROM BTM
31	12	4000.6	6825.1	14	8	2009	4:04	2029	24.7	34.79	5.9	34.98	1524
32	12	4001.7	6826.6	14	8	2009	5:30	1843	22.9	33.91	14.5	35.63	1766
33	12	4003.1	6826.4	14	8	2009	6:30	1544	22.6	33.76	15.7	35.21	1512
34	12	3957.8	6818.0	14	8	2009	9:00	2248	24.7	34.68	11.8	35.50	2044
35	13	4003.3	6907.0	14	8	2009	16:30	165	24.3	34.67	10.9	35.38	9
36	14	3951.1	6934.4	15	8	2009	0:01	1511	25.6	35.08	10.4	35.33	1309
37	14	3951.5	6939.1	15	8	2009	0:43	1428	25.6	35.11	5.6	34.99	926
38	16	3957.3	7015.9	15	8	2009	16:21	700	25.0	34.57	10.2	35.30	499
39	16	3946.6	7040.1	15	8	2009	23:55	1544	26.3	35.18	5.7	35.01	1043
40	17	3957.3	7049.1	16	8	2009	3:45	451	24.0	33.51	12.4	34.55	414
41	17	4000.1	7050.6	16	8	2009	4:35	292	23.8	33.47	13.3	34.65	263
42	16	3941.4	7036.4	16	8	2009	7:15	2104	26.2	35.36	11.5	35.45	1901
43	17	4003.7	7109.6	16	8	2009	16:16	208	24.0	33.47	10.9	35.39	9
44	18	3931.5	7124.0	16	8	2009	22:04	2289	26.8	35.13	13.3	35.68	2083
301	18	3929.5	7124.9	6	8	2009	3:55	2202	25.3	35.75	15.4	36.02	1900
302	20	3901.6	7223.4	6	8	2009	23:30	1508	25.7	34.50	7.5	35.09	1208
303	20	3903.7	7233.2	7	8	2009	1:34	1056	25.5	33.85	13.8	35.67	956
304	21	3903.7	7233.2	7	8	2009	4:37	1148	25.4	33.98	13.0	35.63	1024
305	22	3827.9	7341.0	8	8	2009	0:20	70	24.9	31.02	8.8	33.63	1
306	22	3826.4	7336.4	8	8	2009	2:05	102	25.0	31.29	13.3	35.41	2
307	5	3756.9	7011.7	9	8	2009	0:22	3776	25.7	34.88	15.1	35.84	3673
308	5	3800.2	7020.5	9	8	2009	2:52	3649	25.6	34.89	13.8	35.67	3537
309	5	3800.4	7024.8	9	8	2009	5:04	369	25.6	34.31	14.5	35.80	266
310	4	3755.7	6850.5	10	8	2009	1:55	4058	27.8	35.96	14.6	35.72	3859
311	4	3753.2	6846.7	10	8	2009	3:42	4121	28.9	36.20	15.4	35.85	3923
312	12	4006.6	6814.1	11	8	2009	2:45	1588	22.3	33.59	14.3	35.82	1487
313	12	4013.1	6811.0	11	8	2009	5:49	640	22.7	33.36	14.3	35.88	536
314	10	4010.6	6714.2	12	8	2009	0:43	2575	23.2	33.65	13.3	35.62	2451
315	10	4014.1	6718.6	12	8	2009	2:34	1913	22.9	33.45	13.0	35.48	1820
316	11	4017.7	6727.8	12	8	2009	4:19	1390	21.1	32.51	14.0	35.70	1289
317	11	4020.2	6732.1	12	8	2009	5:52	755	20.5	32.43	10.4	35.28	549
318	2	3930.6	6530.6	13	8	2009	1:34	4392	25.7	34.91	15.1	35.76	4317
319	2	3930.5	6530.6	13	8	2009	4:04	4390	25.5	34.83	14.2	35.48	4314
320	2	4000.7	6825.8	14	8	2009	4:45	2075	23.0	34.00	13.9	35.73	1971
321	14	3951.3	6935.6	15	8	2009	1:46	1258	25.3	34.91	15.1	35.84	1189

CAST #	STA #	LAT	LON	DAY	MO	YEAR	TIME	BTM DEPTH	SFC TEMP	SFC SALT	BTM TEMP	BTM SALT	METERS FROM BTM
322	14	3954.6	6941.8	15	8	2009	6:20	325	25.4	34.92	15.9	36.01	262
323	16	3947.1	7040.2	16	8	2009	0:45	1419	26.2	35.01	14.7	35.66	1351
324	16	3947.8	7040.8	16	8	2009	1:04	1313	24.4	33.95	14.1	35.66	1237
325	17	3955.2	7048.2	16	8	2009	2:43	507	24.1	33.57	14.5	35.71	440