

Oceanography Branch CTD Data Report
CTD_REPORT_2010011DE

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DATE: July 5, 2011

Oceanography Branch CTD Data Report

CTD_REPORT_2010011DE

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

DE 10-11
Benthic Habitat Study
Data Coverage: October 27 – 30, 2011
Northern Georges Bank

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's 2010 Benthic Habitat Study aboard the NOAA FSV *Delaware II*. All data was obtained with Seabird Electronics SBE Model 19+ profiling CTD (s/n 4493). Sea water samples were taken for the purpose of correcting salinity values for the instrument. No salinity correction was necessary. This CTD was also fitted with a WetLabs WetStar Chlorophyll- α Fluorometer. There was no attempt to calibrate or correct these values and they are not included in this report.

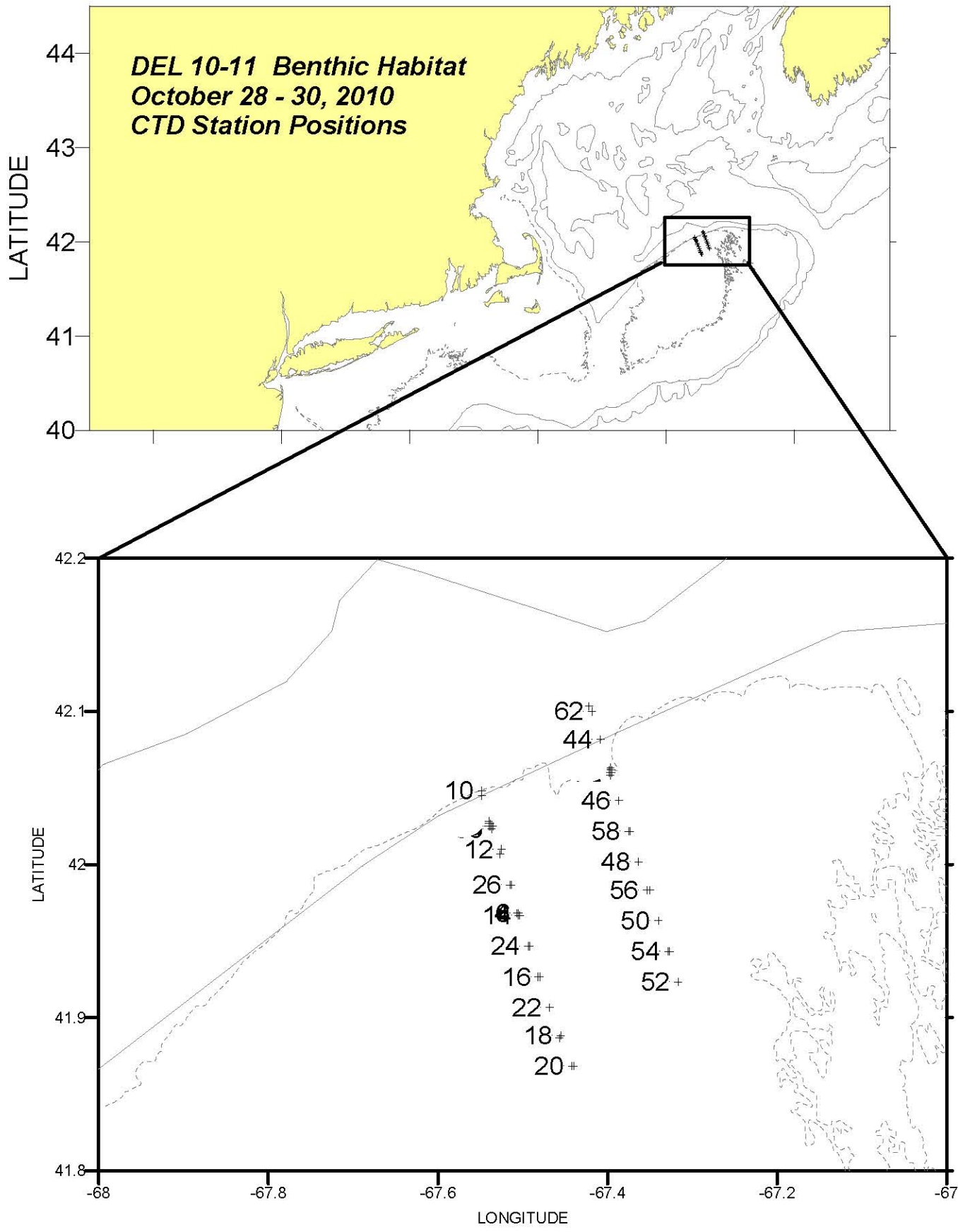
Data presented here have been audited, however, corrections and/or updates may be applied at a later time. The most recent and complete station data can be found in an NODC formatted ASCII file at:
<ftp://ftp.nefsc.noaa.gov/pub/hydro/del1011.dat>

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

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

choose: **2010 Cruises**
OCT_BENTHIC_DEL1011
CTD_REPORT_2010011DE

Revised: July 5, 2011



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
2010 Benthic Habitat Study DEL1011**

CRUISE	CD	SURFACE						BOTTOM						Purpose
		#obs	T/S	Anomaly	SDV1	SDV2	Flag	#obs	T/S	Anomaly	SDV1	SDV2	Flag	
		Georges Bank Temperature												
DEL1011	302	71	12.79	-0.43	0.11	0.27	1	71	12.20	-0.66	0.11	0.95	1	90
		Georges Bank Salinity												
DEL1011	302	71	32.25	-0.36	0.06	0.06	1	71	32.36	-0.27	0.06	0.11	1	90

"#obs", the number of observations included 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.

**DEL 10-11 BENTHIC HABITAT
DATA COVERAGE: OCTOBER 27 - 30, 2011**

<i>Cast #</i>	<i>Sta #</i>	<i>Lat</i>	<i>Long</i>	<i>Day</i>	<i>Mo</i>	<i>Year</i>	<i>Time (GMT)</i>	<i>Btm Depth</i>	<i>Sfc Temp</i>	<i>Sfc Salt</i>	<i>Deepest Temp</i>	<i>Deepest Salt</i>	<i>Meters from Bottom</i>
1	1	4201.5	6732.1	27	10	2010	10:31	51	12.72	32.31	10.81	32.59	6
4	3	4201.5	6732.3	27	10	2010	12:30	51	12.75	32.25	10.68	32.51	7
5	4	4158.1	6730.4	27	10	2010	13:03	45	12.47	32.32	12.36	32.36	4
6	5	4201.6	6732.3	27	10	2010	13:31	51	12.75	32.26	11.13	32.48	6
7	6	4158.1	6730.3	27	10	2010	14:08	46	12.50	32.33	12.50	32.33	4
8	7	4201.5	6732.4	27	10	2010	14:34	51	12.73	32.31	12.23	32.38	6
9	8	4158.1	6730.3	27	10	2010	15:13	46	12.73	32.29	12.54	32.31	4
10	9	4201.7	6732.4	27	10	2010	15:40	52	12.45	32.35	12.38	32.36	1
11	10	4202.9	6732.9	28	10	2010	3:55	67	12.84	32.20	11.81	32.40	6
12	11	4201.6	6732.3	28	10	2010	4:28	51	12.56	32.32	12.54	32.33	6
13	12	4200.6	6731.5	28	10	2010	4:58	46	12.65	32.34	12.63	32.34	2
14	13	4159.2	6730.8	28	10	2010	5:28	44	12.69	32.33	12.68	32.33	7
15	14	4158.0	6730.2	28	10	2010	5:54	46	12.76	32.33	12.73	32.33	4
16	15	4156.8	6729.5	28	10	2010	6:16	47	12.88	32.32	12.79	32.33	6
17	16	4155.6	6728.8	28	10	2010	6:37	52	13.03	32.31	12.88	32.32	5
18	17	4154.4	6728.1	28	10	2010	6:58	64	13.12	32.28	12.91	32.32	6
19	18	4153.3	6727.3	28	10	2010	7:18	63	13.15	32.26	12.95	32.32	5
20	19	4152.1	6726.4	28	10	2010	7:40	58	13.19	32.24	13.04	32.31	4
21	20	4152.1	6726.5	28	10	2010	10:22	56	13.24	32.28	13.23	32.29	6
22	21	4153.2	6727.4	28	10	2010	10:52	61	13.14	32.29	13.17	32.30	4
23	22	4154.4	6728.1	28	10	2010	11:30	63	12.93	32.30	12.96	32.31	2
24	23	4155.6	6728.9	28	10	2010	11:49	51	12.80	32.24	12.78	32.30	5
25	24	4156.8	6729.6	28	10	2010	12:07	46	12.88	32.17	12.61	32.29	7
26	25	4158.0	6730.3	28	10	2010	12:25	45	12.73	32.22	12.51	32.30	4
27	26	4159.2	6730.9	28	10	2010	12:41	43	12.93	32.14	12.12	32.35	4
28	27	4200.4	6731.6	28	10	2010	12:58	45	12.94	32.14	11.26	32.45	4
29	28	4201.6	6732.3	28	10	2010	13:13	51	12.99	32.17	10.37	32.55	2
30	29	4202.7	6732.9	28	10	2010	13:28	62	12.78	32.16	9.68	32.60	4
31	30	4201.6	6732.3	28	10	2010	16:01	52	12.93	32.15	12.17	32.34	4

**DEL 10-11 BENTHIC HABITAT
DATA COVERAGE: OCTOBER 27 - 30, 2011**

<i>Cast #</i>	<i>Sta #</i>	<i>Lat</i>	<i>Long</i>	<i>Day</i>	<i>Mo</i>	<i>Year</i>	<i>Time (GMT)</i>	<i>Btm Depth</i>	<i>Sfc Temp</i>	<i>Sfc Salt</i>	<i>Deepest Temp</i>	<i>Deepest Salt</i>	<i>Meters from Bottom</i>
32	31	4201.5	6732.2	28	10	2010	16:58	52	12.92	32.19	12.54	32.29	4
33	32	4201.6	6732.3	28	10	2010	18:00	52	12.75	32.25	12.59	32.29	5
34	33	4201.5	6732.2	28	10	2010	18:58	52	12.76	32.27	12.60	32.28	2
35	34	4201.5	6732.2	28	10	2010	20:01	52	12.75	32.26	12.63	32.28	2
36	35	4201.5	6732.2	28	10	2010	21:01	52	13.01	32.17	12.67	32.27	3
37	36	4201.4	6732.2	28	10	2010	22:01	50	13.00	32.19	12.36	32.32	4
38	37	4201.5	6732.2	28	10	2010	22:58	51	13.01	32.15	11.40	32.44	1
39	38	4201.5	6732.3	29	10	2010	0:01	51	12.96	32.16	10.77	32.50	1
40	39	4201.5	6732.3	29	10	2010	0:58	50	12.94	32.16	10.68	32.51	4
41	40	4201.6	6732.3	29	10	2010	2:01	51	12.95	32.16	10.98	32.48	6
42	41	4201.6	6732.4	29	10	2010	3:01	51	12.97	32.17	11.49	32.44	3
43	42	4201.6	6732.3	29	10	2010	3:55	51	12.97	32.19	12.17	32.35	4
44	43	4206.2	6725.3	29	10	2010	5:31	86	12.64	32.15	11.47	32.43	4
45	44	4204.9	6724.5	29	10	2010	5:55	60	12.65	32.27	11.98	32.36	3
46	45	4203.7	6723.9	29	10	2010	6:20	53	12.66	32.28	12.66	32.28	4
47	46	4202.5	6723.2	29	10	2010	6:43	49	12.65	32.29	12.66	32.28	3
48	47	4201.3	6722.4	29	10	2010	7:05	52	12.68	32.29	12.69	32.28	7
49	48	4200.1	6721.8	29	10	2010	7:28	53	12.68	32.29	12.70	32.28	5
50	49	4159.0	6721.0	29	10	2010	7:48	55	12.66	32.29	12.67	32.29	4
51	50	4157.8	6720.4	29	10	2010	8:06	54	12.67	32.29	12.69	32.29	3
52	51	4156.6	6719.6	29	10	2010	8:25	52	12.78	32.28	12.77	32.28	4
53	52	4155.4	6719.0	29	10	2010	8:43	50	13.02	32.26	13.06	32.26	3
54	53	4155.4	6719.0	29	10	2010	11:33	50	12.92	32.27	12.80	32.28	5
55	54	4156.6	6719.7	29	10	2010	11:49	51	12.83	32.28	12.83	32.28	6
56	55	4157.8	6720.4	29	10	2010	12:07	54	12.82	32.28	12.82	32.28	5
57	56	4159.0	6721.2	29	10	2010	12:23	53	12.70	32.27	12.72	32.29	4
58	57	4200.1	6721.8	29	10	2010	12:40	52	12.73	32.21	12.53	32.29	3
59	58	4201.3	6722.5	29	10	2010	12:55	51	12.73	32.21	12.46	32.29	4
60	59	4202.5	6723.2	29	10	2010	13:10	48	12.72	32.19	11.30	32.44	6

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61	60	4203.7	6723.9	29	10	2010	13:25	53	12.73	32.18	10.56	32.53	3
62	61	4204.9	6724.5	29	10	2010	13:38	57	12.67	32.15	9.96	32.70	5
63	62	4206.0	6725.1	29	10	2010	13:53	80	12.59	32.17	8.29	32.74	2
64	63	4203.5	6723.8	30	10	2010	4:04	53	12.75	32.21	11.83	32.40	4
65	64	4203.7	6723.7	30	10	2010	4:56	51	12.71	32.23	12.39	32.31	4
66	65	4203.8	6723.8	30	10	2010	5:00	53	12.54	32.28	12.52	32.28	3
67	66	4203.7	6723.7	30	10	2010	6:58	52	12.57	32.27	12.59	32.27	3
68	67	4203.6	6723.7	30	10	2010	8:01	52	12.60	32.26	12.61	32.26	4
69	68	4203.6	6723.8	30	10	2010	9:01	53	12.61	32.26	12.62	32.26	4
70	69	4203.6	6723.7	30	10	2010	10:01	53	12.60	32.26	12.62	32.26	3
71	69	4203.6	6723.8	30	10	2010	11:00	53	12.61	32.24	12.63	32.26	4
72	71	4203.6	6723.8	30	10	2010	12:01	52	12.61	32.22	12.42	32.29	4
73	72	4203.6	6723.8	30	10	2010	13:01	52	12.62	32.22	11.89	32.40	4
74	73	4203.6	6723.9	30	10	2010	14:03	52	12.63	32.22	11.57	32.46	6
75	74	4203.7	6723.9	30	10	2010	14:58	52	12.63	32.22	11.65	32.45	3