Northeast Fisheries Science Center
Woods Hole Laboratory
Woods Hole, MA 02543-1026

March 24, 2003

MEMORANDUM FOR: David Mountain
Jack Jossi
Jerry Prezioso

FROM: Maureen Taylor (ext 2306)

SUBJECT: ECOMON Survey DEL0301

CTD data from the ECOMON cruise, DEL0301, have been processed and are now available in the following locations:

* whsun2: /ftp/pub/hydro/del0301.dat (ASCII NODC file)
(and in /data4/hydro)

* ORACLE Tables: hydro_cruise, hydro_event, hydro_data

* del0301.pdf (distributed via email)

There were a total of 67 casts successfully completed including 7 salinity calibration samples. Unfortunately, the conductivity cell of CTD 1495 suffered a crack at station 2. I waited to distribute this data in the hope that I could use the "post-cal" from the manufacturer to correct the "offset" in the data. However, it was decided that we could not trust the conductivity data since we have no way of knowing if the offset increases or decreases under pressure. I can make the raw data available upon request with the caution that the conductivity data has absolutely no quality control on it. I included the surface salinity data from the ship-board TSG in this report.

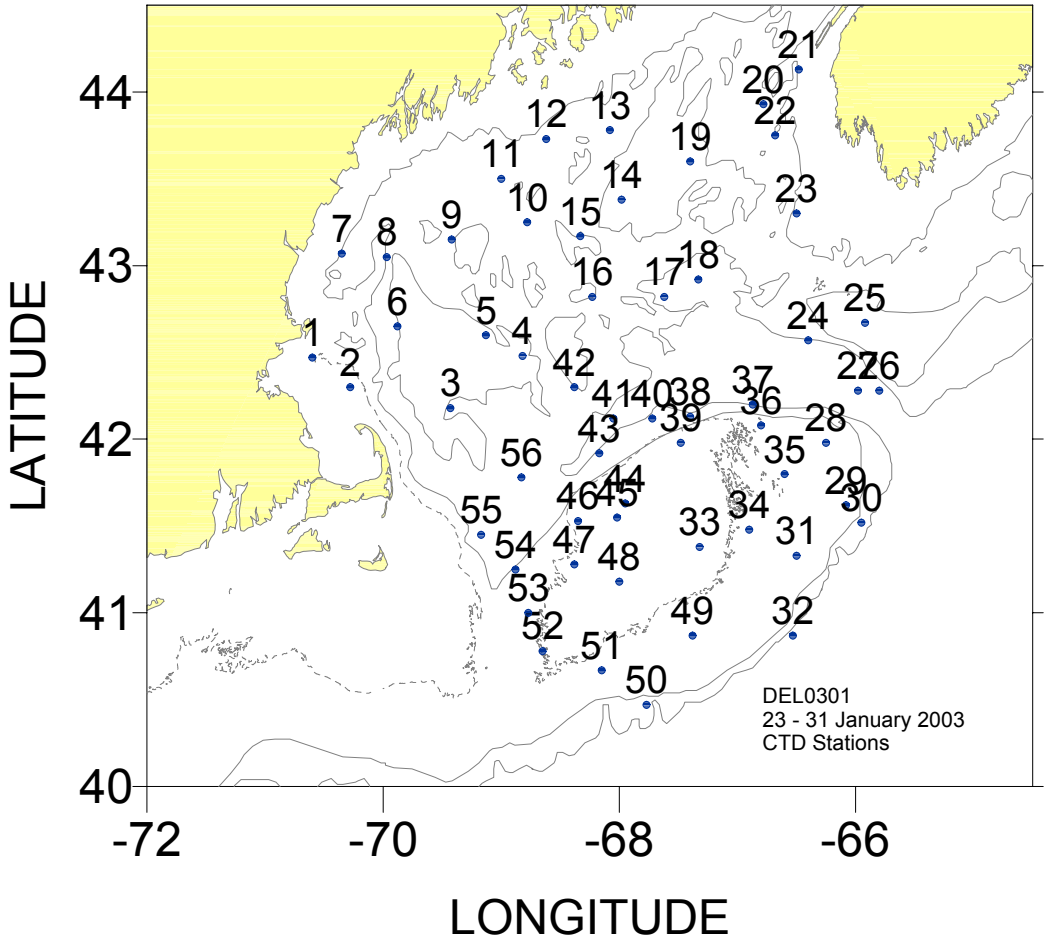
The oracle tables should be available by Tuesday afternoon of this week. Please let Cristina Bascuñán or me know if you have any questions concerning this data.

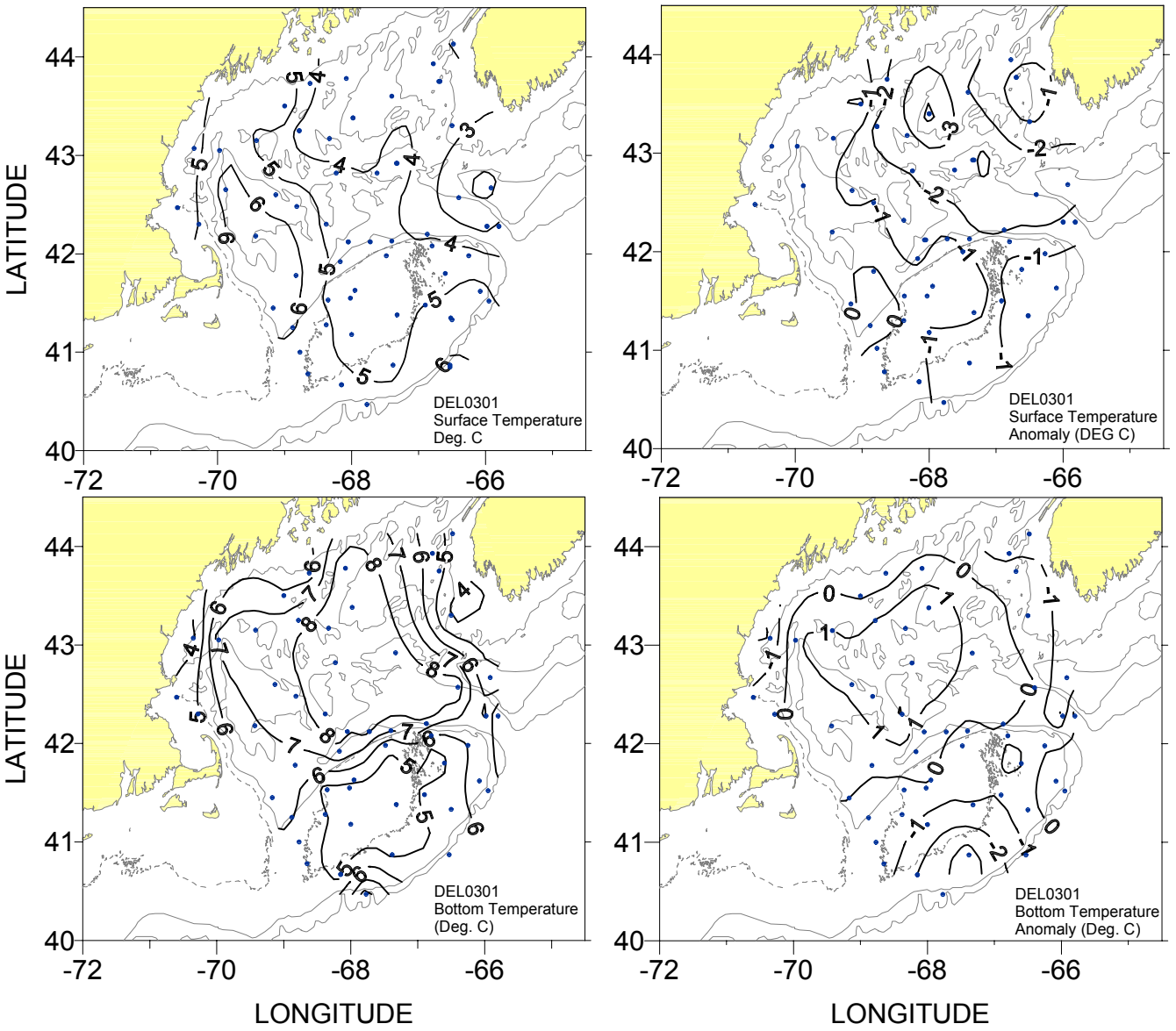
Areal average surface and bottom temp anomalies for ECOMON survey DEL0301.

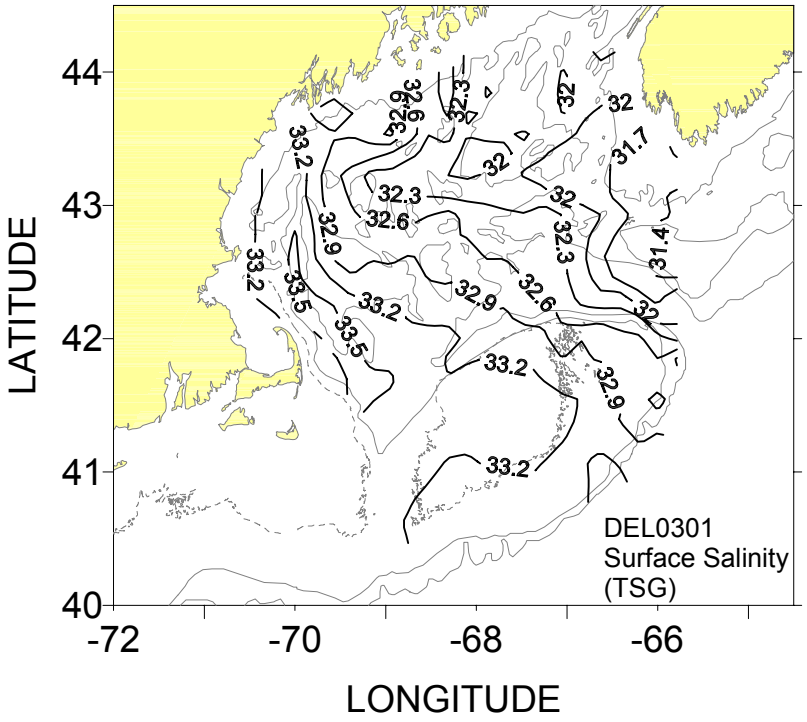
		SURFACE					BOTTOM					
CRUISE	CD	#obs	T	Anomaly	SDV1	SDV2	#obs	T	Anomaly	SDV1	SDV2	(1)
						Gulf of Maine West						
DE0301	27	22	4.76	-1.25	0.24	1.24*	19	7.06	0.58	0.23	1.07*	
						Gulf of Maine East						
DE0301	27	16	3.37	-2.00	0.25	1.14	10	6.87	-0.17	0.34	1.27*	
						Georges Bank						
DE0301	27	21	4.88	-0.71	0.21	.56*	19	5.27	-0.76	0.23	1.04*	

(1) "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 included in each average: "T ", the areal average temp "Anomaly", the areal average temp/salt anomaly: "SDV1", the standard deviation associated with the average temp anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived.

(*) A true areal average could not be calculated due to poor station coverage. The average values listed were derived from a simple average of the observations within the region.


LATITUDE
LONGITUDE
44
43
42
41
40
-72
-70
-68
-66
DEL0301
23 - 31 January 2003
CTD Stations


LATITUDE
LONGITUDE
44
43
42
41
40
-72
-70
-68
-66
DEL0301
Surface Temperature
Deg. C
DEL0301
Surface Temperature
Anomaly (DEG C)
DEL0301
Bottom Temperature
(Deg. C)
DEL0301
Bottom Temperature
Anomaly (Deg. C)


LATITUDE
LONGITUDE
44
43
42
41
40
-72
-70
-68
-66
DEL0301
Surface Salinity
(TSG)
33.2
32.9
32.6
32.3
32
31.7
31.4
33.5

DEL0301 ECOMON SURVEY

23 - 31 JANUARY, 2003

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
1	1	4228.8	7036.2	23	1	2003	13:21	76	4.35	33.09	4.38	33.09	6
2	2	4218.7	7017.5	23	1	2003	15:31	30	4.93	99.99	4.88	99.99	3
3	3	4211.9	6926.5	23	1	2003	19:37	190	6.56	99.99	6.91	99.99	8
4	4	4229.8	6849.7	23	1	2003	23:21	201	5.85	99.99	7.76	99.99	7
5	5	4236.9	6908.8	24	1	2003	1:22	191	5.21	99.99	7.61	99.99	6
6	6	4239.9	6953.0	24	1	2003	5:28	225	5.93	99.99	7.86	99.99	26
7	7	4304.2	7021.3	24	1	2003	13:52	102	4.39	99.99	3.38	99.99	6
8	8	4303.5	6958.2	24	1	2003	15:58	182	6.00	99.99	7.66	99.99	7
9	9	4309.2	6925.7	24	1	2003	19:31	148	4.72	99.99	7.62	99.99	7
11	10	4315.5	6847.2	24	1	2003	23:46	139	3.31	99.99	7.82	99.99	6
12	11	4330.0	6900.9	25	1	2003	2:49	134	6.03	99.99	6.11	99.99	7
13	12	4344.5	6837.8	25	1	2003	5:52	127	3.79	99.99	5.46	99.99	2
15	13	4347.6	6805.8	25	1	2003	10:33	155	2.73	99.99	8.94	99.99	6
16	14	4323.9	6759.6	25	1	2003	13:10	242	1.46	99.99	8.93	99.99	6
17	14	4323.9	6759.6	25	1	2003	13:37	241	2.73	99.99	8.87	99.99	43
18	15	4310.9	6820.0	25	1	2003	15:52	192	3.30	99.99	8.65	99.99	7
19	16	4249.0	6814.6	25	1	2003	18:37	194	4.18	99.99	8.44	99.99	7
20	17	4249.6	6737.2	25	1	2003	21:40	235	3.81	99.99	8.68	99.99	36
21	18	4255.8	6720.6	25	1	2003	23:31	243	3.74	99.99	8.47	99.99	6
22	18	4255.6	6719.9	25	1	2003	23:53	243	2.67	99.99	8.65	99.99	43
23	19	4336.9	6724.6	26	1	2003	4:41	215	3.79	99.99	9.04	99.99	17
24	20	4356.9	6647.4	26	1	2003	8:21	113	3.21	99.99	5.53	99.99	6
25	21	4408.9	6629.8	26	1	2003	10:10	97	4.18	99.99	4.71	99.99	4
27	22	4345.6	6641.9	26	1	2003	13:06	93	3.88	99.99	5.37	99.99	6
28	23	4318.7	6630.2	26	1	2003	16:04	59	3.33	99.99	3.43	99.99	6
29	24	4234.6	6624.0	26	1	2003	22:01	189	2.06	99.99	8.88	99.99	4
30	25	4240.5	6555.8	27	1	2003	0:28	87	1.73	99.99	4.89	99.99	5
32	26	4217.7	6548.6	27	1	2003	3:04	205	3.23	99.99	8.05	99.99	7
33	27	4217.7	6559.7	27	1	2003	4:39	242	2.71	99.99	5.78	99.99	6
34	27	4217.5	6559.8	27	1	2003	5:00	242	2.53	99.99	5.75	99.99	43
35	28	4159.2	6615.7	27	1	2003	7:24	79	4.38	99.99	5.96	99.99	5
36	29	4137.7	6605.7	27	1	2003	10:06	96	5.34	99.99	6.81	99.99	5
37	30	4131.4	6557.2	27	1	2003	11:19	182	5.04	99.99	6.75	99.99	8

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
39	31	4120.8	6630.9	27	1	2003	14:43	88	5.16	99.99	5.53	99.99	5
40	32	4052.2	6632.6	27	1	2003	17:34	590	5.63	99.99	5.00	99.99	5
41	32	4051.5	6632.6	27	1	2003	18:15	966	6.21	99.99	10.28	99.99	765
42	33	4123.3	6719.6	28	1	2003	20:01	48	4.67	99.99	4.79	99.99	6
43	34	4129.5	6654.6	28	1	2003	22:51	65	4.45	99.99	5.14	99.99	5
44	35	4148.8	6636.7	29	1	2003	1:31	70	4.77	99.99	4.83	99.99	5
45	36	4205.6	6648.3	29	1	2003	4:43	66	4.40	99.99	5.15	99.99	8
46	37	4212.7	6652.9	29	1	2003	6:05	209	3.40	99.99	8.53	99.99	10
47	38	4208.0	6724.4	29	1	2003	9:58	151	3.86	99.99	7.15	99.99	5
48	39	4159.5	6729.5	29	1	2003	11:41	42	4.76	99.99	4.74	99.99	6
49	40	4207.5	6743.5	29	1	2003	13:21	192	4.93	99.99	8.59	99.99	6
50	41	4207.4	6803.7	29	1	2003	15:19	225	3.76	99.99	7.91	99.99	5
51	41	4207.4	6803.4	29	1	2003	15:37	226	4.64	99.99	8.49	99.99	26
52	42	4218.5	6823.0	29	1	2003	18:08	203	4.72	99.99	8.53	99.99	7
53	43	4155.5	6810.1	29	1	2003	21:31	203	4.77	99.99	8.01	99.99	7
54	44	4138.7	6757.2	30	1	2003	0:07	23	5.04	99.99	5.08	99.99	5
55	45	4133.1	6801.7	30	1	2003	1:15	35	4.63	33.42	4.71	33.42	3
56	46	4132.9	6821.7	30	1	2003	3:01	40	4.70	33.26	4.43	33.28	5
57	47	4117.9	6823.4	30	1	2003	4:34	53	5.33	33.29	5.25	33.28	4
58	48	4111.3	6800.2	30	1	2003	6:25	43	4.23	33.18	4.22	33.18	4
59	49	4052.3	6723.8	30	1	2003	10:01	83	4.71	33.12	4.69	33.16	5
60	50	4028.0	6746.6	30	1	2003	13:04	129	5.40	33.06	8.62	33.98	7
61	51	4040.5	6809.2	30	1	2003	15:25	79	5.39	32.97	4.58	33.01	5
62	51	4040.6	6809.0	30	1	2003	15:40	80	5.26	32.97	4.58	33.02	7
63	52	4047.1	6839.6	30	1	2003	18:27	63	5.41	33.19	5.43	33.2	5
64	53	4100.6	6846.5	30	1	2003	20:15	63	5.57	33.37	5.54	33.37	6
65	54	4115.3	6853.3	30	1	2003	21:53	101	6.15	33.43	6.16	33.45	6
66	55	4127.6	6910.4	30	1	2003	23:42	156	6.17	33.48	6.26	33.56	6
67	56	4147.5	6850.1	31	1	2003	2:13	165	6.33	33.52	6.57	33.58	6