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

September 17, 2003

MEMORANDUM FOR: David Mountain
Jerry Prezioso
Carolyn Griswold
John Sibunka

FROM: Maureen Taylor (ext 2306)

SUBJECT: Argo-Maine 03-01 ECOMON Survey

CTD data from the August ECOMON survey, AM0301, have been processed and are now available in the following locations:

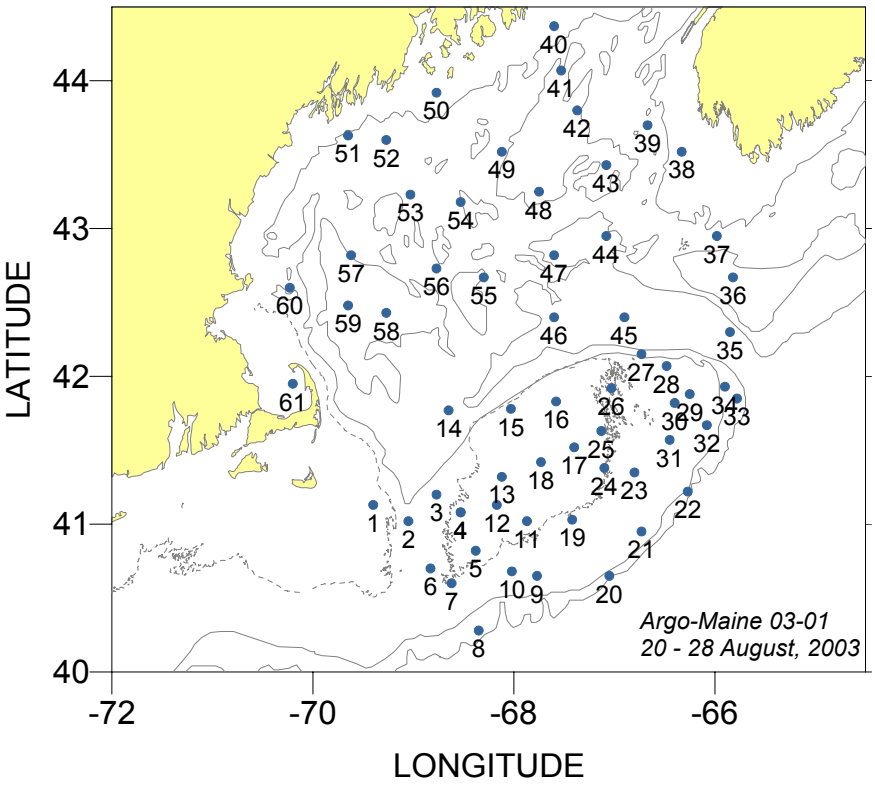
* whsun2: /ftp/pub/hydro/arm0301.dat (ASCII NODC file)
(and in /data4/hydro)

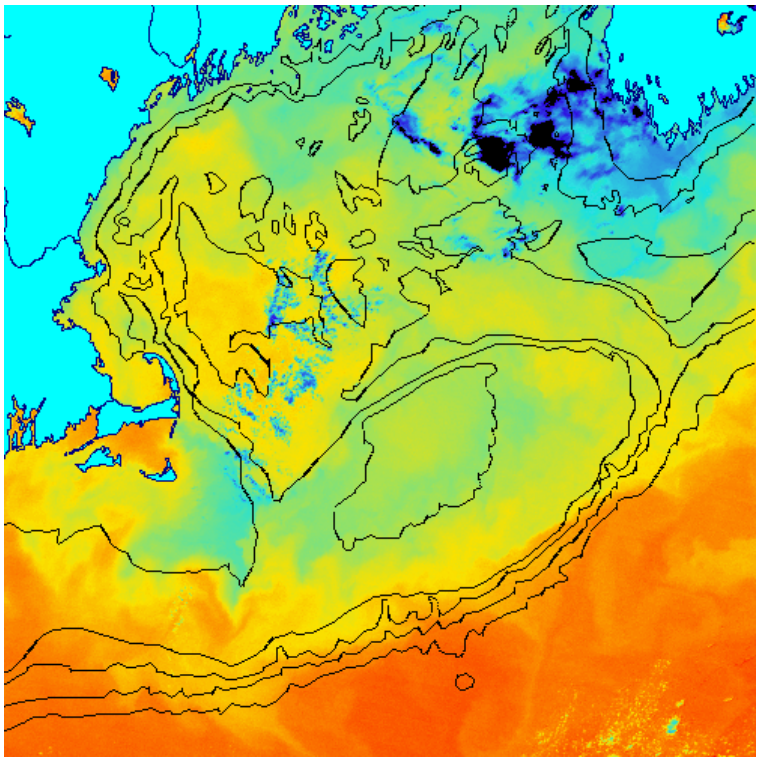
* ORACLE Tables: hydro_cruise, hydro_event, hydro_data

* arm0301.pdf (distributed via email)

There were a total of 86 casts successfully completed including 15 salinity calibration samples. In addition, surface and near bottom samples were taken for total chlorophyll concentration whenever a salinity calibration sample was taken. When the chlorophyll values are available, I will compute the regression for extracted chlorophyll and fluorometer voltage and append to this document.

Please let Cristina Bascuñán or me know if you have any questions concerning this data and for future cruise needs.





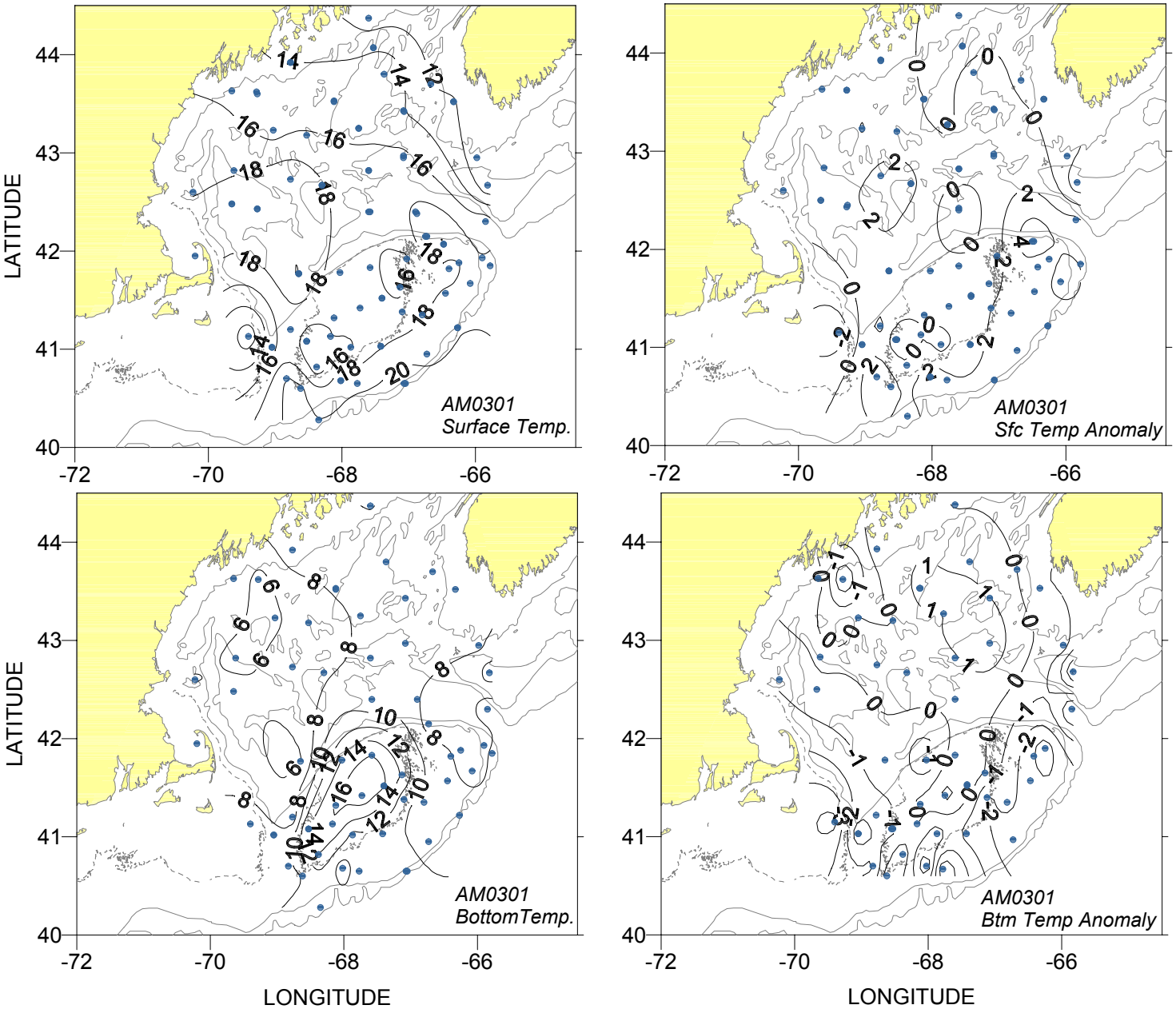
COASTWATCH image: 24 August 2003

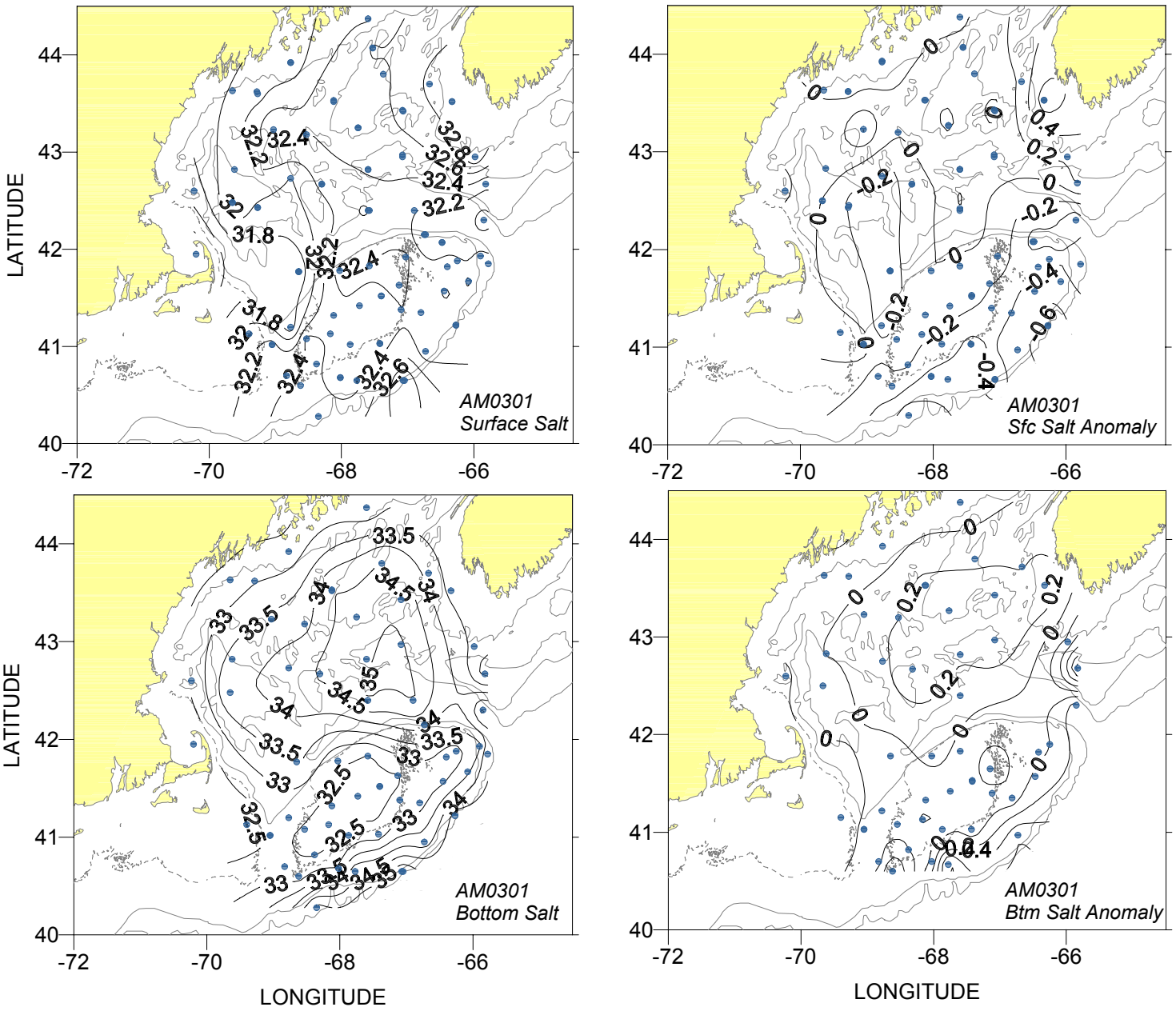
Areal average surface and bottom temp / salt and anomalies for August ECOMON survey AM0301.

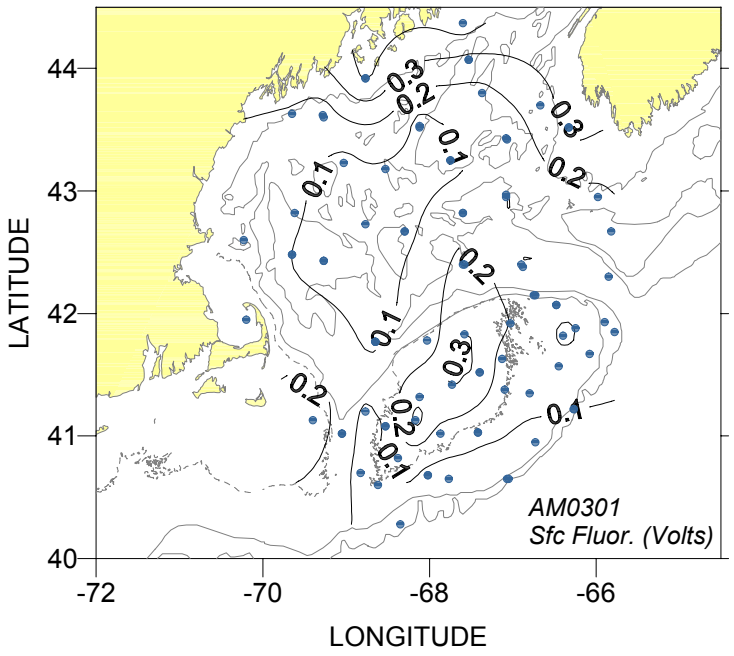
		SURFACE					BOTTOM					
CRUISE	CD	#obs	T / S	Anomaly	SDV1	SDV2	#obs	T / S	Anomaly	SDV1	SDV2	(1)
						Gulf of Maine West						
AM0301	239	23	17.32	1.44	0.24	.92*	15	7.34	-0.18	0.26	1.23*	
AM0301	239	23	32.10	-0.06	0.10	.20*	15	33.50	0.05	0.07	.17*	
						Gulf of Maine East						
AM0301	237	18	14.99	0.37	0.22	2.21	8	8.76	0.23	0.30	1.86	
AM0301	237	18	32.53	0.09	0.11	0.29	8	34.25	0.15	0.10	0.35	
						Georges Bank						
AM0301	234	37	17.93	2.00	0.23	2.07	26	10.97	-1.17	0.25	1.66	
AM0301	234	36	32.36	-0.29	0.08	0.24	25	32.85	-0.01	0.09	0.27	

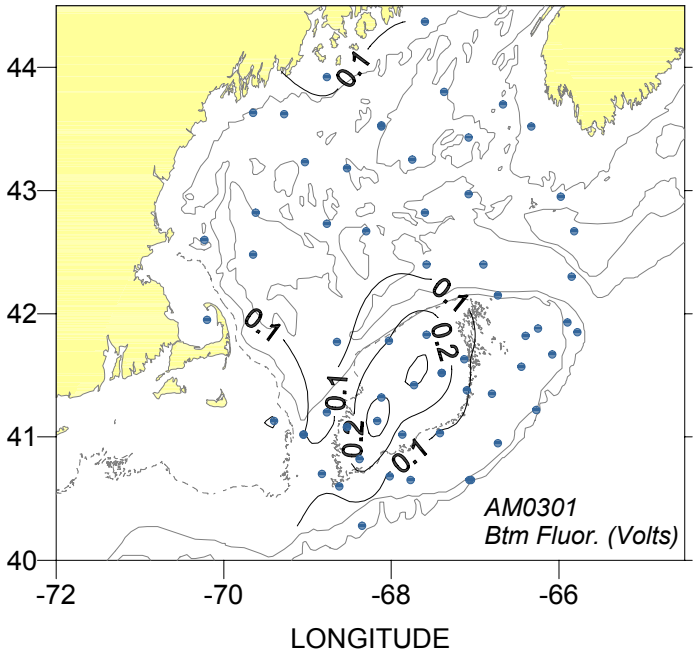
(1) "CRUISE", the code name for a cruise: "CD", the calendar mid-date of all the stations within a region for a cruise: "# obs", the number of observations included in each average: "T / S", the areal average temp / salt: "Anomaly", the areal average temp/salt anomaly: "SDV1", the standard deviation associated with the average temp/salt anomaly: "SDV2", the standard deviation of the individual anomalies from which the average anomaly was derived.

(*) 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.


AM0301
Surface Temp.
AM0301
Sfc Temp Anomaly
AM0301
BottomTemp.
AM0301
Btm Temp Anomaly
LATITUDE
LONGITUDE
44
43
42
41
40
-72
-70
-68
-66


AM0301
Surface Salt
AM0301
Sfc Salt Anomaly
AM0301
Bottom Salt
AM0301
Btm Salt Anomaly
LATITUDE
LONGITUDE
44
43
42
41
40
-72
-70
-68
-66


LATITUDE
44
43
42
41
40
-72
-70
-68
-66
LONGITUDE
0.3
0.2
0.1
0.2
0.3
0.1
0.2
0.1
0.2
0.3
0.2
0.1
0.1
AM0301
Sfc Fluor. (Volts)


44
43
42
41
40
-72
-70
-68
-66
LONGITUDE
0.1
0.1
0.1
0.2
0.1
0.2
0.1
AM0301
Btm Fluor. (Volts)

AM0301 Summer Ecomon Survey

20 - 28 August, 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	4108.8	6924.4	20	8	2003	8:25	41	10.58	32.09	9.39	32.23	2
2	2	4101.7	6903.2	20	8	2003	10:11	84	15.30	32.27	8.85	32.50	1
3	2	4101.6	6903.1	20	8	2003	10:13	83	14.70	32.49	8.53	32.51	4
4	3	4112.6	6846.8	20	8	2003	13:16	69	17.71	31.67	6.55	32.63	5
5	4	4105.0	6832.3	20	8	2003	14:49	56	14.80	99.99	14.63	99.99	4
6	4	4105.0	6832.6	20	8	2003	15:04	57	14.73	32.45	14.48	32.47	5
7	5	4049.4	6823.4	20	8	2003	17:10	51	14.63	32.43	14.08	32.44	7
8	6	4042.2	6850.0	20	8	2003	19:49	66	20.21	32.35	9.68	32.76	6
9	7	4036.2	6837.4	20	8	2003	21:19	63	20.55	32.43	9.92	32.72	8
10	8	4017.5	6821.5	21	8	2003	0:00	149	20.04	32.59	11.52	35.24	2
11	9	4039.5	6746.8	21	8	2003	4:40	80	19.53	32.33	11.44	34.43	5
13	10	4041.9	6801.6	21	8	2003	6:18	81	19.12	32.29	8.70	33.01	5
14	11	4101.5	6752.3	21	8	2003	8:49	50	15.79	32.40	11.43	32.60	5
15	12	4108.3	6810.4	21	8	2003	10:40	46	16.00	32.37	16.01	32.37	5
16	13	4119.5	6807.3	21	8	2003	12:11	38	16.28	32.35	16.20	32.37	7
19	14	4146.8	6839.1	21	8	2003	16:55	182	21.04	31.66	5.59	33.60	6
20	15	4147.1	6802.4	21	8	2003	20:16	41	16.84	32.49	14.04	32.57	6
21	16	4150.0	6735.8	21	8	2003	22:37	55	16.30	32.41	16.11	32.42	9
22	17	4131.6	6724.7	22	8	2003	0:49	42	16.29	32.38	16.25	32.38	5
23	17	4131.3	6724.9	22	8	2003	1:08	42	16.27	32.38	16.26	32.38	8
24	18	4125.0	6744.9	22	8	2003	3:15	38	17.41	32.34	17.40	32.34	8
26	19	4102.1	6725.6	22	8	2003	6:49	66	17.65	32.37	10.27	32.69	4
27	20	4039.9	6703.6	22	8	2003	10:16	168	21.35	32.99	11.86	35.43	6
28	20	4039.9	6704.0	22	8	2003	11:10	163	21.34	33.00	12.06	35.43	5
29	21	4057.9	6644.2	22	8	2003	14:22	86	19.33	32.28	8.28	33.72	6
31	22	4113.0	6616.3	22	8	2003	17:46	168	19.78	32.30	10.08	34.77	4
32	23	4121.4	6648.8	22	8	2003	20:55	73	17.89	32.37	9.36	32.80	6
33	24	4123.9	6706.8	22	8	2003	22:40	58	16.63	32.40	10.71	32.68	5
34	25	4138.9	6708.9	23	8	2003	0:34	59	15.57	32.42	13.80	32.45	4
35	26	4155.8	6702.3	23	8	2003	3:00	60	15.69	32.43	14.70	32.47	17
37	27	4209.5	6644.5	23	8	2003	5:50	140	19.34	32.06	7.23	34.19	6
39	28	4204.5	6629.4	23	8	2003	16:32	80	20.35	32.02	10.03	32.73	17

Cast #	Sta #	Lat	Long	Day	Mo	Yr	Time (GMT)	Btm Depth	Sfc Temp	Sfc Salt	Btm Temp	Btm Salt	Meters from Bottom
40	29	4153.8	6615.3	23	8	2003	18:17	80	18.01	32.22	7.34	32.84	3
41	30	4149.0	6624.8	23	8	2003	19:23	83	16.96	32.35	8.18	32.80	7
42	31	4134.4	6627.9	23	8	2003	21:43	88	18.28	32.18	8.96	32.89	5
43	32	4140.0	6605.0	24	8	2003	0:01	101	19.16	32.17	6.65	33.39	6
44	33	4151.4	6547.0	24	8	2003	2:07	147	18.94	32.25	9.08	34.57	8
45	34	4156.7	6554.5	24	8	2003	3:35	118	17.96	32.25	5.88	33.20	8
46	35	4218.3	6551.0	24	8	2003	9:15	218	17.17	31.90	9.43	35.21	4
47	36	4240.5	6549.6	24	8	2003	12:25	98	10.27	32.26	4.76	32.70	8
48	37	4257.0	6559.2	24	8	2003	14:55	140	10.79	32.94	8.59	33.40	4
50	38	4331.8	6620.1	24	8	2003	20:19	77	12.26	32.87	9.14	33.34	7
51	39	4342.5	6640.4	24	8	2003	22:55	124	11.91	32.84	8.57	33.83	7
52	40	4422.9	6736.3	25	8	2003	5:31	50	10.82	32.38	10.11	32.56	5
54	41	4404.2	6732.5	25	8	2003	7:58	218	13.58	32.70	8.47	34.59	16
55	42	4348.2	6722.9	25	8	2003	10:19	209	15.92	32.56	8.40	34.56	5
57	43	4326.2	6705.2	25	8	2003	14:43	222	14.23	32.63	9.19	34.89	4
58	44	4258.0	6705.1	25	8	2003	18:00	237	16.41	32.47	9.25	35.04	3
61	45	4224.1	6654.3	25	8	2003	23:25	365	18.48	32.22	8.13	35.04	2
63	46	4224.3	6735.5	26	8	2003	3:52	284	15.88	32.33	8.28	35.01	11
64	47	4249.4	6736.1	26	8	2003	7:49	230	16.46	32.43	8.49	34.92	8
67	48	4315.7	6745.8	26	8	2003	12:33	240	16.45	32.56	8.22	34.59	4
68	49	4331.7	6807.4	26	8	2003	15:19	196	14.39	32.57	8.25	34.51	4
69	49	4332.2	6807.5	26	8	2003	15:58	199	15.41	32.58	8.25	34.51	7
71	50	4355.5	6846.3	26	8	2003	20:47	89	14.02	32.08	9.38	32.64	6
72	51	4338.4	6939.0	27	8	2003	1:46	80	15.57	32.01	7.98	32.66	11
74	52	4337.0	6917.1	27	8	2003	4:20	135	14.61	32.13	5.15	32.97	6
75	53	4314.0	6902.6	27	8	2003	8:08	170	15.15	32.62	5.84	33.62	9
76	54	4311.9	6832.2	27	8	2003	11:04	181	16.21	32.39	6.23	33.82	10
78	55	4240.0	6818.7	27	8	2003	15:45	204	18.16	32.26	7.76	34.57	9
79	56	4244.5	6846.4	27	8	2003	19:07	190	19.70	31.99	7.06	34.22	5
80	57	4249.7	6937.4	27	8	2003	23:28	171	17.83	32.12	5.74	33.65	4
81	58	4226.0	6916.6	28	8	2003	3:30	227	19.53	31.96	6.05	33.76	24
84	59	4229.9	6939.8	28	8	2003	6:50	249	18.55	32.21	6.38	33.97	5
85	60	4236.0	7014.1	28	8	2003	10:31	70	17.84	31.69	5.94	32.57	7
86	61	4157.0	7012.6	28	8	2003	14:56	33	19.62	31.19	6.98	31.95	8