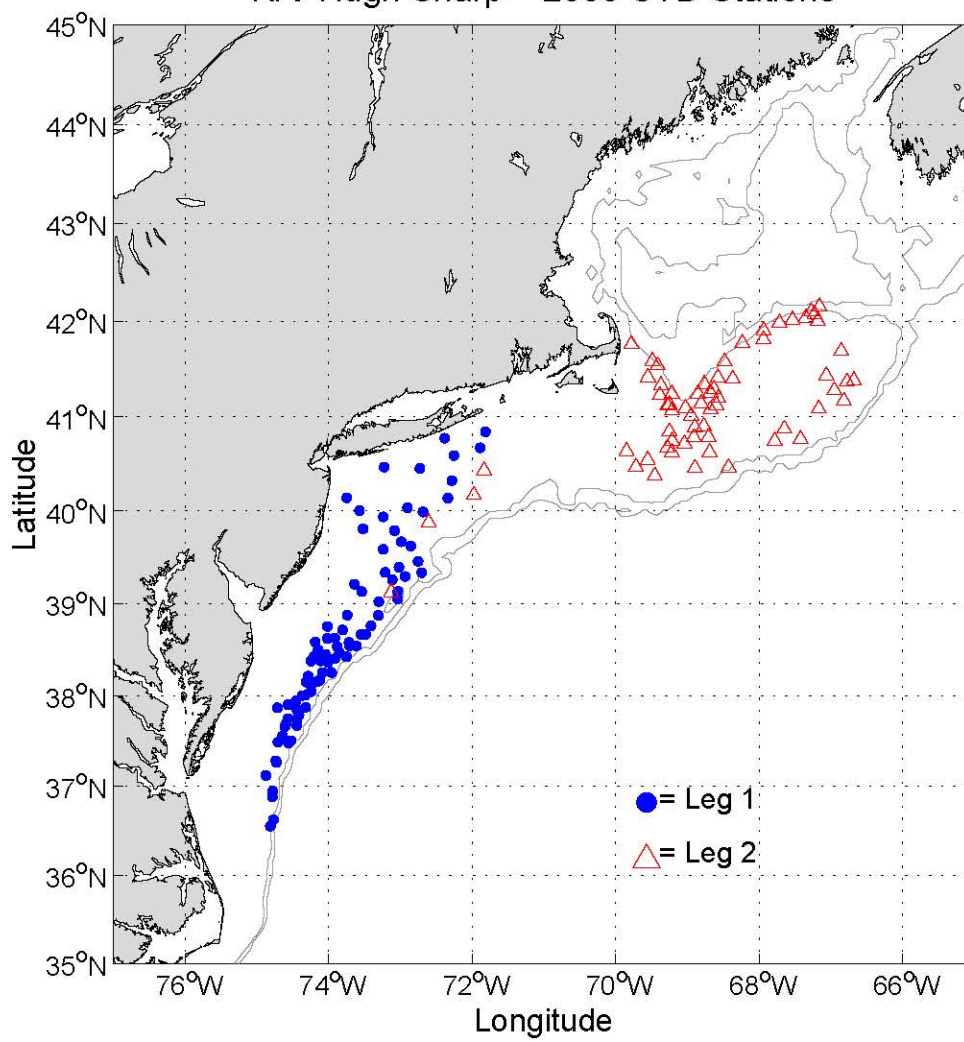


Oceanography Branch CTD Data Report
R/V Hugh Sharp – 2008 CTD Stations
2008 Scallop Survey

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DATE: 6/1/08

R/V Hugh Sharp – 2008 CTD Stations



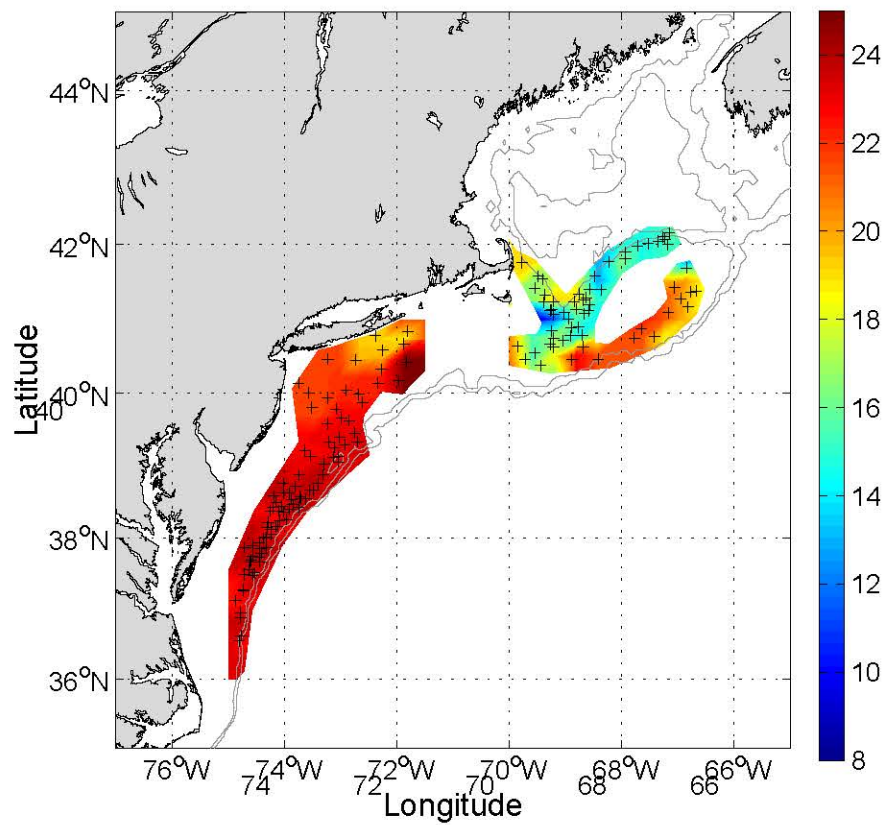
Regional average surface and bottom temperature / salinity and anomalies for the 2008 Scallop Survey

Decimal Year Day	Number of Surface obs	Surface Temp/Salt	Surface T/S Anomaly	SDV1	SDV2	Surface Flag*	Number of Bottom obs	Bottom Temp/Salt	Bottom T/S Anomaly	SDV1	SDV2	Bottom Flag*
Georges Bank												
2008.58	42	16.88	2.16	0.17	3.01	1	41	10.36	-0.12	0.17	3.30	1
2008.58	42	32.49	-0.02	0.09	1.06	1	41	32.73	-0.11	0.09	0.78	1
MAB-North												
2008.53	16	21.30	2.55	0.31	2.60	1	16	8.55	0.74	0.31	3.38	1
2008.53	16	31.32	-0.65	0.20	1.63	1	16	32.96	-0.05	0.19	1.23	1
MAB-South												
2008.5	77	23.18	2.06	0.15	0.90	1	76	9.32	1.56	0.16	1.39	1
2008.5	77	30.73	-1.39	0.11	0.67	1	76	33.54	0.17	0.09	0.51	1

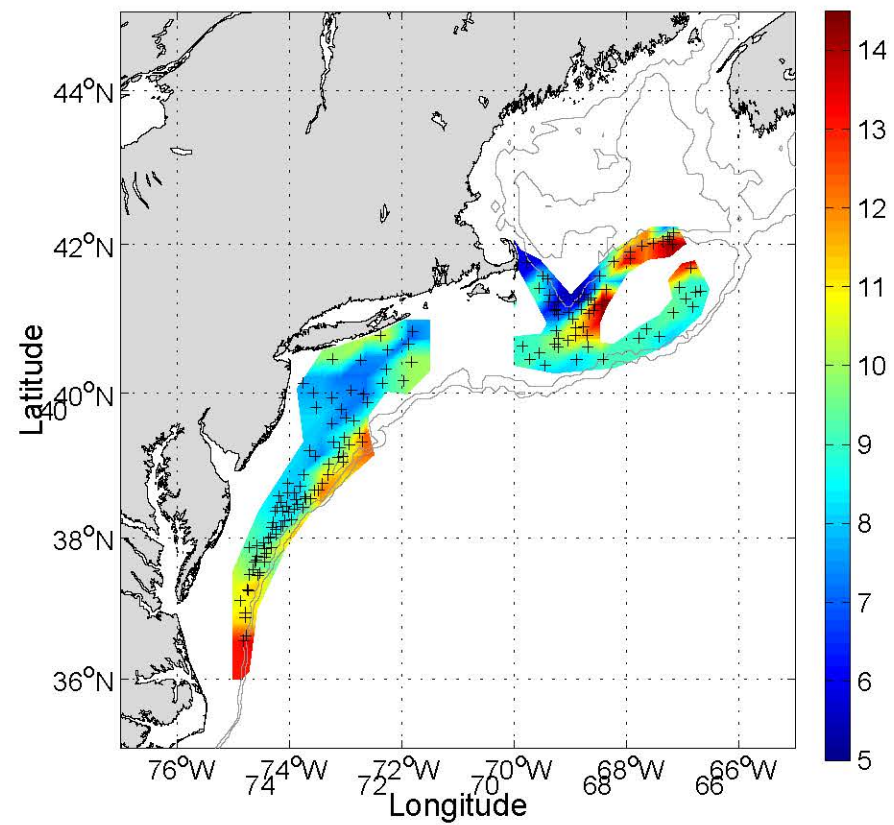
* A Flag value of 0 indicates that there were enough observations to calculate an area weighted value for the region.
A Flag value of 1 indicates that the spatial distribution of the observations was not sufficient to calculate an area weighted average for the region, and instead a simple average of the observations was calculated.

** SDV1 = the standard deviation associated with the average temperature / salinity
SDV2 = the standard deviation of the individual anomalies from which the average anomaly was derived

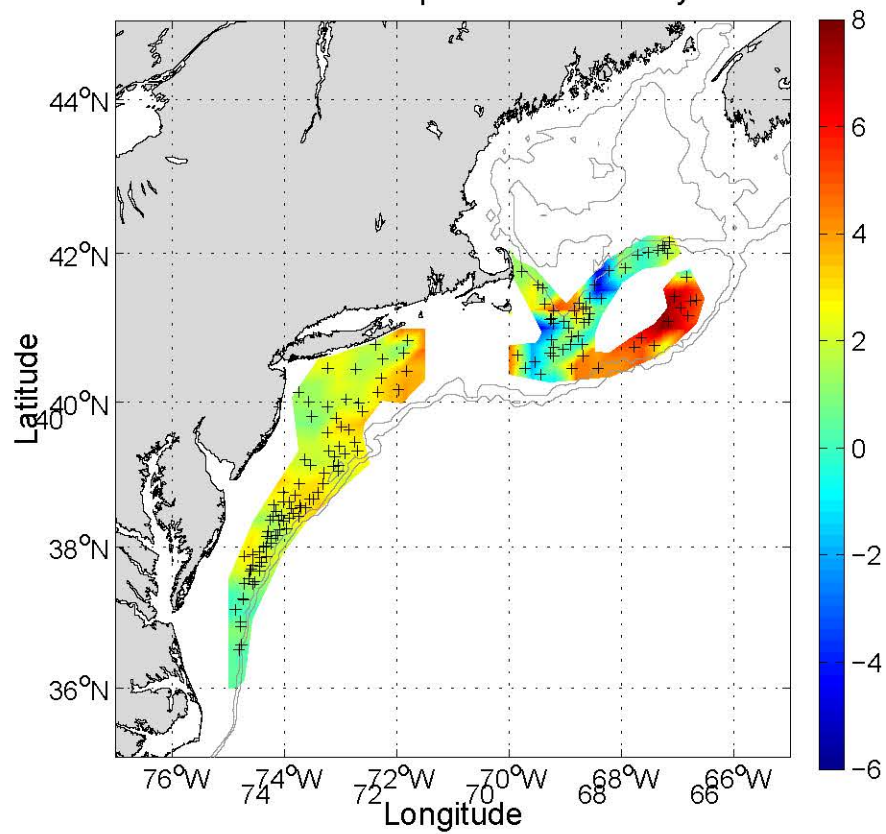
Surface Temperature



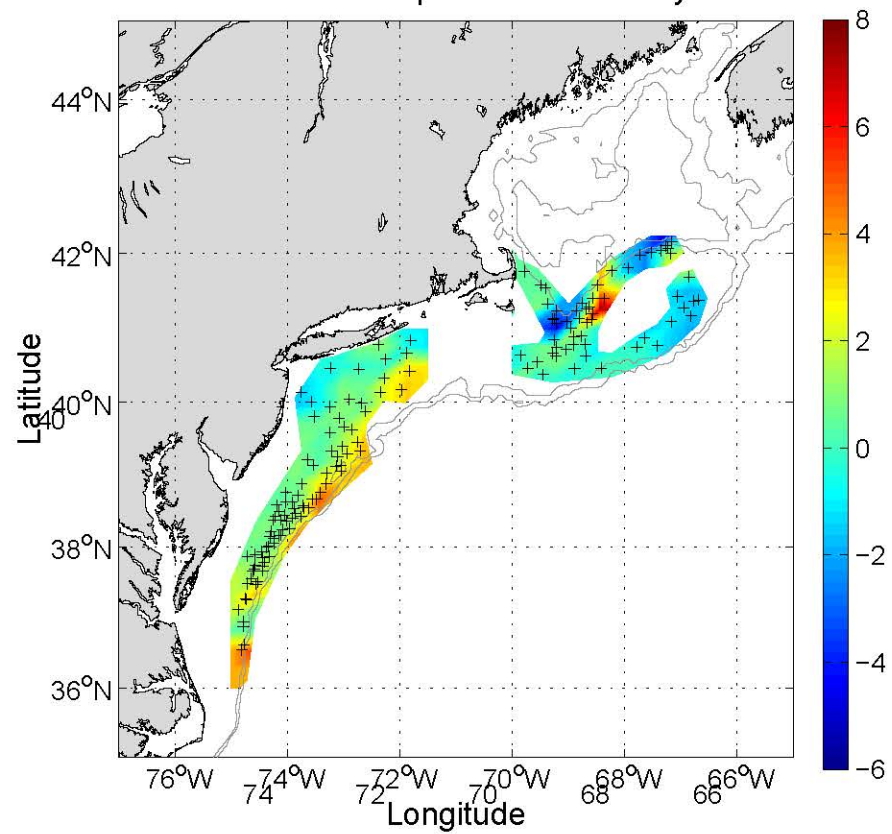
Bottom Temperature



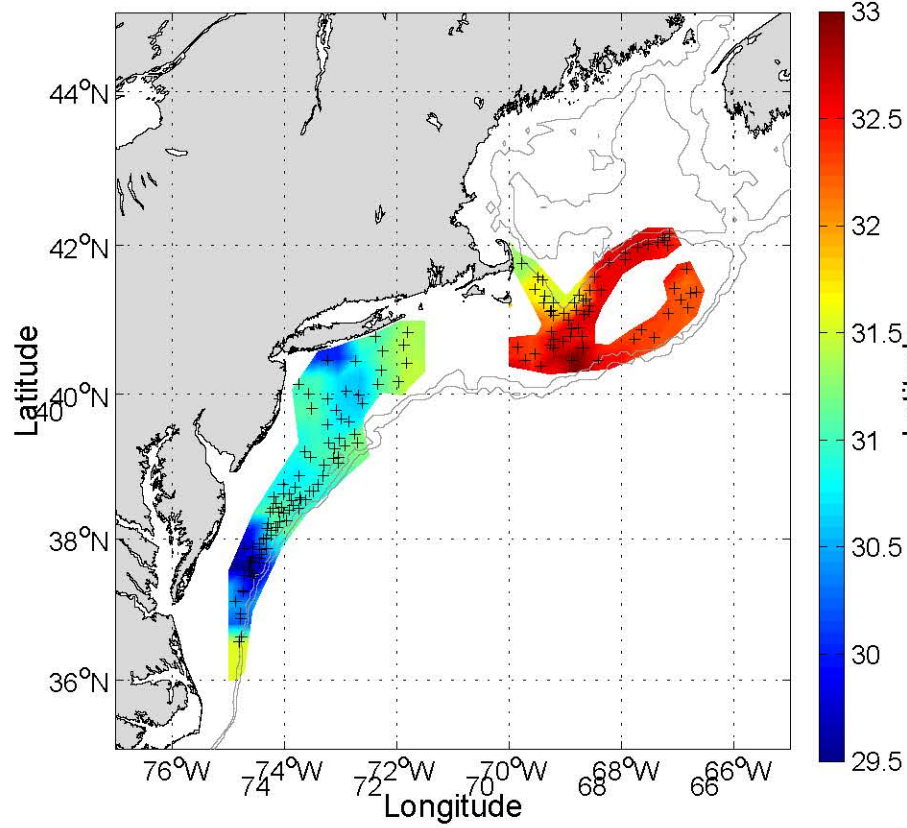
Surface Temperature Anomaly



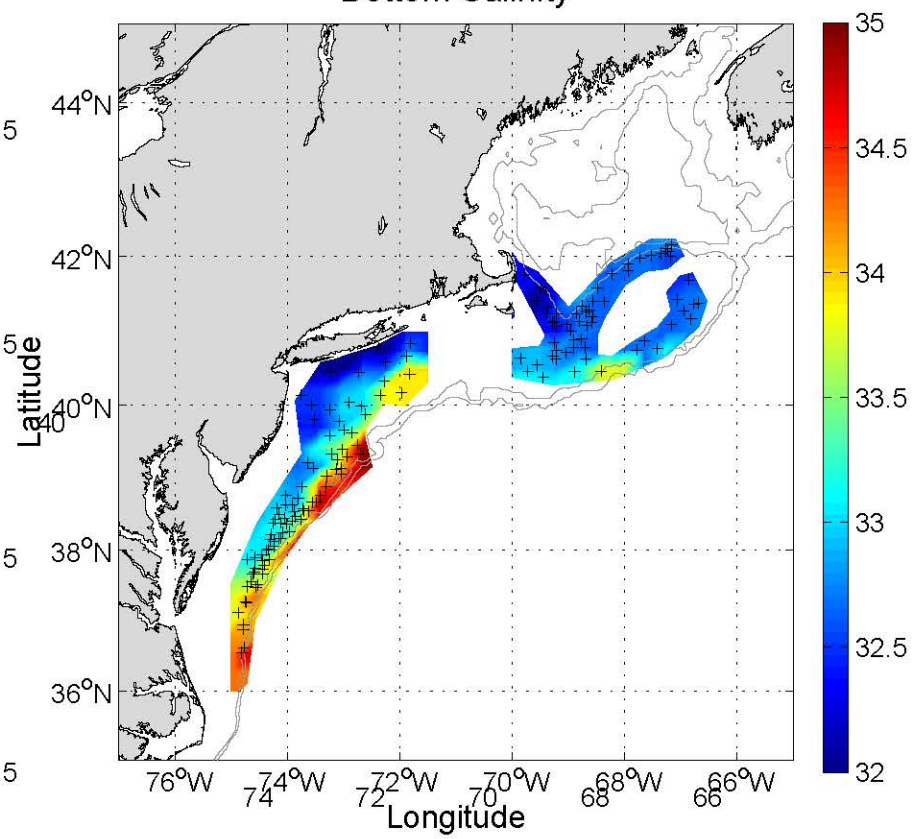
Bottom Temperature Anomaly



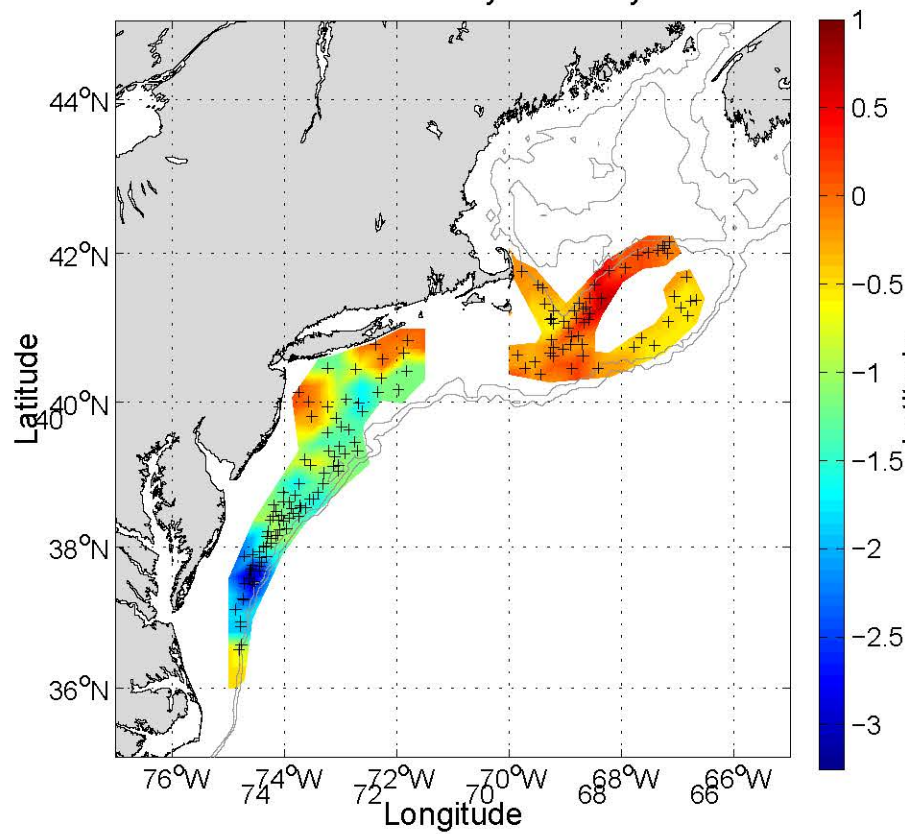
Surface Salinity



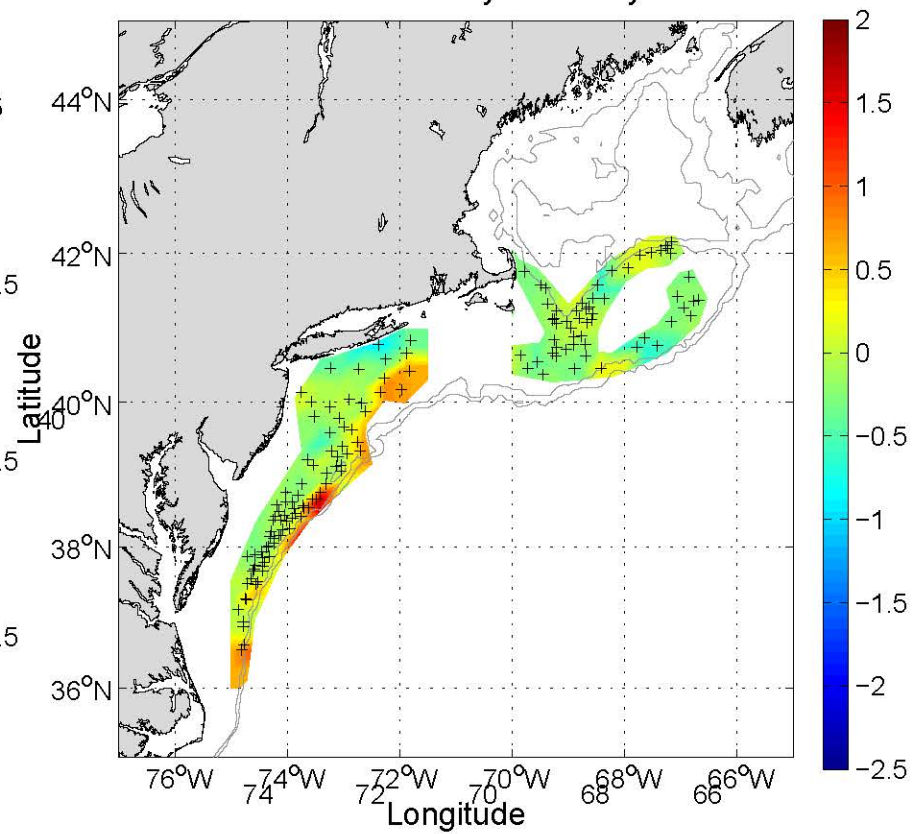
Bottom Salinity



Surface Salinity Anomaly



Bottom Salinity Anomaly



R/V Hugh Sharp 2008 Scallop Survey

Cast	Sta	Latitude	Longitude	Day	Mon	Year	Time (GMT)	Station Depth	Surface Temp.	Surface Salinity	Bottom Temp.	Bottom Salinity	Meters From Bottom
1	1	3809.1	7418.7	22	6	2008	0:10	43	22.08	31.03	8.57	32.89	1
2	4	3800.1	7421.9	22	6	2008	4:04	58	22.12	31.21	8.46	33.20	2
3	7	3756.6	7427.2	22	6	2008	8:52	54	22.28	31.07	8.71	33.28	1
4	10	3750.8	7426.5	22	6	2008	13:19	59	21.87	31.10	8.84	33.42	2
5	13	3754.1	7433.9	22	6	2008	18:12	51	23.83	29.91	9.10	33.04	2
6	16	3744.9	7434.1	22	6	2008	21:45	57	23.67	29.60	8.72	33.16	3
7	19	3752.1	7442.8	23	6	2008	1:27	43	23.16	29.29	9.46	33.14	2
8	22	3741.5	7435.5	23	6	2008	4:54	60	23.83	28.93	8.71	33.17	2
9	26	3739.4	7436.7	23	6	2008	9:37	62	23.71	28.82	8.90	33.31	2
10	29	3733.3	7438.5	23	6	2008	14:31	58	23.59	29.05	9.48	33.57	1
11	32	3728.6	7433.6	23	6	2008	18:13	64	23.53	30.31	9.82	33.79	2
12	35	3729.3	7442.5	23	6	2008	23:02	52	23.63	29.44	10.16	33.53	2
13	41	3716.9	7444.1	24	6	2008	4:01	62	23.27	29.33	10.99	34.13	3
14	44	3707.1	7452.4	24	6	2008	7:35	54	22.46	30.50	10.63	33.76	2
15	47	3656.7	7446.7	24	6	2008	11:11	63	22.70	30.40	10.95	34.04	2
16	50	3637.4	7446.2	24	6	2008	16:01	82	22.67	31.54	13.45	34.85	3
17	53	3633.1	7448.8	24	6	2008	20:30	51	23.22	31.53	13.08	34.25	1
18	56	3652.8	7447.0	24	6	2008	23:55	62	23.73	30.23	11.19	34.14	1
19	59	3715.8	7443.8	25	6	2008	3:49	60	23.55	29.81	11.32	34.29	2
20	62	3730.3	7431.5	25	6	2008	7:46	66	22.91	30.66	9.50	33.71	2
21	65	3740.3	7426.6	25	6	2008	11:43	68	23.28	30.10	9.34	33.62	1
22	68	3744.2	7426.2	25	6	2008	14:52	69	23.27	29.94	9.11	33.54	1
23	71	3747.1	7424.8	25	6	2008	19:01	65	23.97	29.94	9.04	33.50	3
24	74	3752.4	7419.2	25	6	2008	22:53	73	23.80	30.59	10.53	34.09	1
25	77	3800.3	7419.5	26	6	2008	2:35	60	23.14	31.02	8.64	33.26	1
26	80	3802.8	7414.6	26	6	2008	6:10	60	23.21	31.16	8.82	33.45	1
27	83	3807.6	7414.4	26	6	2008	9:34	41	22.75	31.04	8.34	33.01	1
28	86	3809.5	7409.0	26	6	2008	13:00	72	23.02	31.18	10.41	34.07	1
29	89	3810.2	7407.4	26	6	2008	17:34	71	23.31	31.37	10.55	34.13	2
30	93	3815.3	7357.4	26	6	2008	21:49	68	22.75	31.18	11.73	34.62	1
31	97	3815.1	7405.1	27	6	2008	2:31	72	22.94	31.14	8.57	33.45	8

32	100	3812.9	7417.2	27	6	2008	7:16	52	22.96	31.01	8.56	32.89	2
33	104	3822.7	7414.8	27	6	2008	11:13	54	22.66	31.13	8.27	33.17	1
34	106	3830.1	7408.8	28	6	2008	3:07	51	23.33	30.90	8.03	33.10	1
35	109	3825.5	7412.6	28	6	2008	6:43	53	23.25	31.05	8.28	33.24	2
36	112	3822.9	7406.8	28	6	2008	10:38	59	23.21	31.15	8.29	33.24	1
37	115	3827.0	7402.7	28	6	2008	13:51	57	23.28	30.93	7.99	33.14	1
38	118	3822.0	7400.7	28	6	2008	17:12	64	23.69	30.96	9.47	33.82	1
39	121	3824.4	7354.8	28	6	2008	20:00	64	23.85	30.90	8.58	33.47	4
40	124	3825.6	7345.0	28	6	2008	23:30	72	23.63	30.97	12.85	35.03	1
41	127	3828.0	7350.9	29	6	2008	3:05	59	23.65	30.89	8.45	33.34	2
42	130	3832.2	7352.8	29	6	2008	7:13	57	23.59	30.87	7.82	32.98	1
43	133	3832.8	7342.6	29	6	2008	13:33	64	23.36	30.99	10.70	34.31	1
44	136	3832.7	7336.9	29	6	2008	17:25	68	23.47	31.04	11.42	34.46	5
45	139	3835.0	7342.9	29	6	2008	22:01	70	23.57	30.96	9.86	34.00	7
46	143	3832.4	7352.8	30	6	2008	3:49	56	23.90	30.87	7.89	32.97	2
47	146	3837.8	7354.9	30	6	2008	8:40	49	23.65	30.86	7.99	32.90	2
48	149	3837.6	7400.9	30	6	2008	12:34	52	23.62	30.85	7.93	33.02	5
49	152	3835.3	7411.2	30	6	2008	16:32	50	23.91	30.80	8.26	32.97	1
50	155	3845.4	7401.0	30	6	2008	20:40	49	23.93	30.85	8.19	32.90	3
51	158	3843.1	7348.3	1	7	2008	0:16	52	23.82	30.78	7.93	33.09	3
52	161	3840.2	7333.0	1	7	2008	3:58	64	23.61	30.77	10.04	34.06	1
53	164	3840.4	7329.0	1	7	2008	7:39	72	23.47	30.86	12.06	34.79	3
54	167	3845.8	7324.5	1	7	2008	12:11	77	22.92	30.95	12.45	34.91	1
55	170	3852.8	7344.5	1	7	2008	18:02	43	23.08	30.70	8.02	32.78	3
56	173	3852.7	7318.5	1	7	2008	22:34	77	23.93	30.86	10.54	34.25	1
57	177	3903.4	7302.2	2	7	2008	2:57	80	23.12	31.05	11.33	34.50	2
58	180	3908.1	7302.1	2	7	2008	6:24	70	23.03	31.09	9.89	34.00	2
59	183	3901.7	7318.0	2	7	2008	10:36	69	22.80	31.13	9.42	33.85	2
60	186	3912.9	7338.3	2	7	2008	21:53	45	22.84	30.86	8.14	32.63	1
61	189	3908.1	7332.3	3	7	2008	1:52	48	22.85	31.02	7.47	32.84	1
62	192	3920.5	7312.7	3	7	2008	6:03	62	22.90	30.97	7.91	33.25	2
63	195	3923.8	7301.2	3	7	2008	9:31	64	22.98	30.87	8.83	33.62	1
64	198	3915.7	7306.7	3	7	2008	12:40	67	22.99	31.03	9.20	33.74	3
65	201	3917.9	7255.9	3	7	2008	15:49	71	23.07	31.01	9.81	33.96	3
66	204	3920.4	7242.1	3	7	2008	19:40	102	23.30	31.23	12.35	34.94	4
67	207	3927.7	7245.1	3	7	2008	23:19	79	23.19	30.98	10.63	34.26	5
68	210	3937.6	7251.2	4	7	2008	4:04	65	22.83	30.68	8.71	33.58	2

69	213	3940.3	7259.2	4	7	2008	16:43	62	22.80	30.71	7.33	32.97	2
70	216	3935.4	7314.4	4	7	2008	21:16	40	23.33	30.80	7.90	32.66	2
71	220	4002.1	7254.1	5	7	2008	2:49	52	21.94	30.67	7.17	32.84	2
72	223	3947.5	7304.8	5	7	2008	6:22	55	22.09	30.65	7.50	32.99	2
73	226	3948.6	7331.2	5	7	2008	10:37	34	21.64	31.06	8.12	32.41	3
74	229	3956.3	7314.2	5	7	2008	14:37	76	21.20	30.85	7.81	33.23	3
75	232	4000.3	7334.3	5	7	2008	18:52	36	21.67	31.01	7.77	32.50	1
76	235	4008.5	7344.9	5	7	2008	22:51	34	18.50	31.02	7.88	32.47	2
77	238	4028.1	7313.6	6	7	2008	3:22	30	21.67	30.00	9.86	31.99	2
78	241	4027.2	7243.6	6	7	2008	8:13	45	19.64	30.83	7.47	32.59	2
79	244	4046.5	7222.8	6	7	2008	13:45	37	19.19	31.07	10.26	31.91	4
80	247	4035.4	7215.2	6	7	2008	17:00	50	19.79	31.20	7.49	32.59	2
81	250	4040.4	7153.0	6	7	2008	20:43	55	18.84	31.43	7.05	32.68	3
82	253	4050.6	7148.8	7	7	2008	0:10	46	21.62	31.32	7.84	32.39	2
83	256	4019.5	7216.8	7	7	2008	6:18	58	21.84	31.38	7.16	32.93	2
84	259	4008.3	7220.3	7	7	2008	10:01	73	22.44	31.10	9.00	33.84	2
85	262	3959.4	7241.0	7	7	2008	14:04	59	22.09	30.58	7.19	32.99	1
201	263	3907.7	7307.7	22	7	2008	11:46	72	25.23	31.16	8.74	33.55	2
202	267	3952.8	7236.3	22	7	2008	19:28	63	24.80	31.02	9.12	33.74	2
203	270	4010.3	7158.4	23	7	2008	3:37	69	24.94	31.44	9.90	33.89	1
204	273	4026.0	7149.9	23	7	2008	7:48	70	24.70	31.41	9.97	33.93	1
205	276	4038.3	6950.8	24	7	2008	6:10	57	20.39	32.45	8.92	32.86	1
206	279	4028.3	6942.9	24	7	2008	10:23	76	21.31	NULL	9.30	33.27	5
207	282	4032.7	6933.1	24	7	2008	15:19	63	15.54	32.31	9.10	32.92	1
208	285	4022.6	6927.2	24	7	2008	20:25	75	16.78	32.52	8.06	33.19	4
209	288	4037.5	6912.9	25	7	2008	0:28	70	18.52	32.78	9.33	32.83	1
210	291	4043.1	6902.3	25	7	2008	4:46	63	18.68	32.57	9.10	32.82	4
211	294	4040.3	6916.7	26	7	2008	8:40	48	15.44	32.69	9.99	32.80	2
212	296	4044.8	6912.6	26	7	2008	12:16	63	16.77	32.65	10.25	32.79	1
213	300	4050.7	6914.9	26	7	2008	16:40	56	14.29	32.62	11.04	32.76	1
214	303	4053.4	6853.7	26	7	2008	22:27	75	18.48	32.66	10.29	32.70	2
215	306	4100.7	6856.7	27	7	2008	2:58	78	15.58	32.63	11.07	32.69	2
216	309	4108.3	6848.3	27	7	2008	7:15	79	14.49	32.61	8.71	32.63	2
217	312	4115.4	6840.7	27	7	2008	10:48	67	13.58	32.67	11.70	32.68	2
218	316	4117.5	6837.6	27	7	2008	14:15	68	15.26	32.60	9.95	32.68	2
219	319	4123.9	6821.9	27	7	2008	18:42	62	15.20	32.67	13.65	32.70	3
220	322	4111.8	6834.0	27	7	2008	22:38	68	14.96	32.58	14.56	32.61	2

221	325	4107.4	6835.6	28	7	2008	2:04	59	14.29	32.67	14.13	32.65	2
222	328	4104.6	6840.4	28	7	2008	6:09	64	14.35	32.64	13.55	32.64	2
223	331	4054.1	6846.0	28	7	2008	10:16	69	14.51	32.48	12.68	32.54	3
224	334	4047.2	6842.1	28	7	2008	14:22	63	17.85	32.45	11.59	32.57	2
225	337	4047.0	6854.5	28	7	2008	17:53	67	14.55	32.48	11.40	32.61	2
226	341	4027.5	6853.4	28	7	2008	22:34	79	22.85	33.00	8.36	33.11	2
227	344	4037.6	6841.3	29	7	2008	1:28	65	22.03	32.66	8.65	32.81	3
228	348	4028.0	6825.4	29	7	2008	6:37	97	21.39	32.50	9.08	33.76	3
229	352	4044.8	6746.7	29	7	2008	13:15	70	21.35	32.29	8.99	32.69	2
230	355	4045.9	6725.1	29	7	2008	17:31	91	18.64	32.28	8.15	33.10	2
231	359	4052.4	6738.8	29	7	2008	21:58	72	22.50	32.39	8.86	32.71	2
232	362	4105.1	6709.9	30	7	2008	2:22	65	21.36	32.30	9.42	32.61	3
233	365	4116.6	6656.9	30	7	2008	5:46	68	19.63	32.23	9.08	32.66	2
234	371	4110.1	6648.9	30	7	2008	11:30	75	19.52	32.22	8.61	32.73	3
235	389	4122.9	6640.6	31	7	2008	11:49	82	18.08	32.29	8.69	32.76	3
236	393	4122.0	6646.4	31	7	2008	15:45	75	20.12	32.16	8.93	32.67	2
237	397	4126.0	6703.6	31	7	2008	20:22	61	19.70	32.29	11.60	32.51	2
238	401	4141.2	6651.1	1	8	2008	1:07	69	13.44	32.43	13.39	32.45	2
239	404	4200.0	6710.6	1	8	2008	6:34	53	15.27	32.46	13.81	32.56	2
240	407	4204.3	6713.5	1	8	2008	11:52	48	16.43	32.31	10.97	32.68	3
241	410	4208.9	6709.3	1	8	2008	15:58	91	16.64	32.28	9.01	32.75	2
242	413	4205.8	6716.2	1	8	2008	21:17	53	15.28	32.52	6.33	32.83	3
243	416	4202.1	6720.7	2	8	2008	1:22	52	15.18	32.48	14.14	32.55	2
244	420	4200.6	6731.9	2	8	2008	8:08	45	14.14	32.64	9.96	32.76	2
245	424	4158.9	6742.9	2	8	2008	12:26	55	14.63	32.66	12.08	32.69	2
246	427	4154.1	6756.1	2	8	2008	16:06	79	14.70	32.61	10.98	32.70	2
247	430	4148.6	6756.2	2	8	2008	19:16	43	16.34	32.58	13.45	32.62	2
248	434	4146.2	6813.9	2	8	2008	22:58	78	15.65	32.61	7.09	32.69	6
249	438	4134.8	6828.8	3	8	2008	3:57	93	12.79	32.58	8.50	32.60	2
250	441	4124.7	6834.4	3	8	2008	7:22	91	14.34	32.44	7.03	32.61	3
251	445	4120.6	6845.7	3	8	2008	12:00	108	18.17	31.56	5.16	32.95	3
252	448	4114.5	6851.1	3	8	2008	15:38	101	18.81	32.42	5.60	32.70	4
253	451	4105.5	6901.5	3	8	2008	19:40	94	12.72	32.56	6.96	32.49	2
254	455	4103.9	6912.8	4	8	2008	0:37	57	11.57	32.03	7.31	32.36	5
255	461	4107.1	6916.5	4	8	2008	5:43	58	8.61	32.24	8.20	32.29	2
256	465	4107.8	6914.8	4	8	2008	11:43	54	19.58	31.43	6.16	32.42	3
257	468	4114.6	6912.8	4	8	2008	15:13	92	19.07	31.49	5.53	32.56	3

258	472	4113.7	6922.9	4	8	2008	20:28	51	8.58	32.24	6.90	32.27	2
259	475	4119.8	6922.0	4	8	2008	23:46	52	20.72	31.21	6.67	32.27	2
260	478	4132.2	6924.7	5	8	2008	5:45	72	17.58	31.55	6.27	32.36	3
261	482	4125.0	6932.9	5	8	2008	11:19	32	16.58	31.68	9.01	32.08	3
262	485	4135.0	6929.1	5	8	2008	16:51	72	20.65	31.46	6.30	32.25	2
263	488	4145.6	6946.6	5	8	2008	22:16	88	19.12	31.34	6.00	32.36	1