NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY
1999 STATION INFORMATION

ation	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Tem (F)
---	------	----	------	-------	--------	--------	---	-----	---
001	Feb-02	0318	4002.9	7205.8	X26067.6	Y43381.8	120	41.6	50.
002	Feb-02	0557	3956.8	7150.7	X25957.3	Y43320.1	081	59.1	58.
003	Feb-02	0917	3939.7	7205.4	X26066.9	Y43180.9	224	79.0	58.
004	Feb-02	1147	3931.3	7205.4	X26069.3	Y43107.0	235	178.5	46.
005	Feb-02	1702	3945.6	7236.5	X26287.7	Y43246.6	204	34.7	48.
006	Feb-02	2043	3946.0	7253.7	X26411.9	Y43257.6	243	40.7	47.
007	Feb-02	2258	3938.1	7258.5	X26438.6	Y43184.6	158	35.0	47.
008	Feb-03	0157	3921.3	7251.6	X26378.9	Y43023.5	168	39.4	48.
009	Feb-03	0319	3918.8	7252.4	X26382.6	Y42999.8	322	38.5	53.
010	Feb-03	0702	3915.8	7311.2	X26505.2	Y42971.5	191	35.3	53.
011	Feb-03	0913	3908.4	7312.2	X26504.7	Y42898.9	127	36.1	48.
012	Feb-03	1109	3903.5	7306.0	X26461.2	Y42851.7	040	38.5	50.
013	Feb-03	1415	3912.4	7242.8	X26316.6	Y42939.8	001	65.3	57.
014	Feb-03	1713	3901.3	7252.8	X26376.2	Y42832.8	164	56.9	54.
015	Feb-03	1846	3857.1	7250.9	X26362.9	Y42793.3	033	108.3	56.
016	Feb-03	2001	3858.8	7249.4	X26354.1	Y42809.7	210	111.3	56.
017	Feb-03	2242	3845.5	7307.4	X26458.4	Y42675.3	210	62.9	57.
018	Feb-04	0045	3833.8	7316.9	X26507.1	Y42555.5	220	68.4	58.
019	Feb-04	0209	3831.5	7323.6	X26544.2	Y42528.0	282	57.7	58.
020	Feb-04	0420	3828.1	7341.5	X26644.3	Y42480.6	210	37.7	52.
021	Feb-04	0559	3831.7	7342.7	X26654.7	Y42517.1	238	34.7	50.
022	Feb-04	0758	3828.4	7359.0	X26744.1	Y42470.9	258	29.0	50.
023	Feb-04	1053	3818.2	7343.0	X26642.4	Y42378.6	183	62.3	57.
024	Feb-04	1216	3814.1	7344.9	X26649.0	Y42335.2	221	62.3	59.
025	Feb-04	1449	3806.1	7405.1	X26750.0	Y42231.6	248	38.3	54.
026	Feb-04	1713	3803.9	7410.5	X26775.5	Y42201.9	175	38.8	53.
027	Feb-04	2044	3745.4	7410.6	X26754.2	Y42007.7	048	104.7	52.
028	Feb-04	2241	3742.6	7413.5	X26765.3	Y41973.9	210	73.3	57.
029	Feb-05	0103	3735.1	7425.8	X26817.0	Y41876.7	172	46.2	54.
030	Feb-05	0233	3728.5	7424.6	X26803.6	Y41809.4	225	60.7	57.
031	Feb-05	0522	3722.2	7439.6	X26866.6	Y41716.7	265	32.8	54.
032	Feb-05	0846	3712.4	7433.1	X26824.6	Y41625.0		71.1	57.
033	Feb-05	1008	3706.9	7435.2	X26827.8	Y41563.9	185	62.6	57.
034	Feb-05	1349	3703.6	7440.0	X26845.7	Y41519.4	155	122.8	52.
035	Feb-05	1623	3647.5	7442.3	X26837.2	Y41346.7	178	48.1	54.
036	Feb-05	1848	3639.8	7442.5	X26829.6	Y41267.2	194	72.7	54.
037	Feb-05	2043	3627.5	7447.0	X26835.5	Y41130.6	200	50.0	54.
038	Feb-05	2238	3613.8	7400.5	X26632.6	Y41119.5	185	41.6	51.
039	Feb-06	0138	3548.5	7456.1	X26833.1	Y40719.1	141	36.9	51.
040	Feb-06	0254	3547.3	7452.7	X26818.7	Y40718.9	153	52.8	53.
041	Feb-06	0457	3541.3	7449.8	X26802.6	Y40672.2	150	146.3	55.
042	Feb-06	0642	3536.5	7450.9	X26802.5	Y40624.3	001	41.3	53.
043	Feb-06	0820	3544.5	7456.7	X26831.3	Y40679.4	001	31.4	51.
044	Feb-06	0958	3544.0	7503.3	X26856.2	Y40653.8	000	24.3	50.
045	Feb-06	1153	3552.0	7513.6	X26903.0	Y40699.8	343	15.9	49.
046	Feb-06	1330	3601.6	7517.0	X26926.7	Y40785.5	332	16.4	50.
047	Feb-06	1553	3616.5	7528.4	X26989.4	Y40909.0	351	15.9	49.
048	Feb-06	1940	3649.1	7530.4	X27043.7	Y41258.3	101	11.5	48.

NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY
1999 STATION INFORMATION

ation	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Tem (F)
---	------	----	------	-------	--------	--------	---	-----	---
049	Feb-06	2118	3644.2	7520.4	X26995.0	Y41225.8	015	13.1	48.
050	Feb-06	2337	3646.8	7503.5	X26927.3	Y41292.3	307	17.5	49.
051	Feb-07	0059	3649.3	7506.8	X26944.7	Y41311.8	318	17.0	48.
052	Feb-07	0435	3701.4	7520.8	X27022.4	Y41413.7	067	17.2	47.
053	Feb-07	0626	3706.4	7507.3	X26970.8	Y41496.2	319	18.6	47.
054	Feb-07	0913	3723.8	7524.0	X27073.4	Y41659.0	065	14.8	45.
055	Feb-07	1306	3736.2	7447.2	X26922.4	Y41855.9	321	23.5	47.
056	Feb-07	1530	3748.9	7501.8	X27013.8	Y41974.3	069	14.2	45.
057	Feb-07	1755	3753.9	7441.3	X26920.3	Y42057.2	304	20.5	47.
058	Feb-07	1928	3758.6	7451.2	X26978.0	Y42095.9	322	14.8	45.
059	Feb-07	2057	3806.6	7454.0	X27006.8	Y42181.3	052	13.1	44.
060	Feb-07	2200	3809.3	7440.5	X26941.5	Y42226.5	035	20.2	46.
061	Feb-08	0028	3813.9	7430.8	X26898.2	Y42286.9	007	22.7	46.
062	Feb-08	0320	3836.6	7430.6	X26936.3	Y42534.4	312	17.5	45.
063	Feb-08	0539	3845.8	7440.4	X27010.3	Y42629.7	074	14.5	42.
064	Feb-08	1408	3909.2	7335.4	X26655.2	Y42903.6	307	21.6	46.
065	Feb-08	1659	3921.4	7351.2	X26776.7	Y43027.9	078	19.1	43.
066	Feb-08	2035	3926.6	7318.1	X26562.4	Y43078.4	270	19.1	45.
067	Feb-08	2150	3929.2	7323.3	X26601.1	Y43104.7	312	19.7	45.
068	Feb-08	2327	3936.6	7330.0	X26658.1	Y43180.1	100	20.5	44.
069	Feb-09	0143	3941.5	7314.7	X26557.7	Y43223.5	352	22.7	45.
070	Feb-09	0326	3946.3	7323.4	X26626.8	Y43274.1	002	20.8	44.
071	Feb-09	0451	3946.2	7326.9	X26652.0	Y43274.6	344	18.6	44.
072	Feb-09	0608	3949.0	7324.9	X26641.7	Y43301.4	332	20.8	44.
073	Feb-09	0758	3958.9	7330.4	X26699.6	Y43401.8	000	23.2	44.
074	Feb-09	0954	4010.8	7336.5	X26769.6	Y43523.0	157	20.2	44.
075	Feb-09	1506	4034.7	7248.6	X26435.9	Y43699.2	045	19.1	44.
076	Feb-09	1706	4043.8	7236.2	X26348.1	Y43762.4	085	16.7	39.
077	Feb-09	1904	4044.0	7220.5	X26216.0	Y43744.7	171	21.6	42.
078	Feb-09	2355	4013.9	7224.1	X26212.4	Y43491.1	096	32.0	46.
079	Feb-10	0235	4024.2	7200.7	X26033.1	Y43557.5	042	35.5	46.
080	Feb-10	0453	4039.0	7154.4	X25990.1	Y43672.0	108	28.7	45.
081	Feb-10	0733	4036.0	7144.2	X25902.9	Y43637.1	150	35.5	50.
082	Feb-10	1008	4025.9	7137.8	X25850.2	Y43549.3	227	42.1	53.
083	Feb-10	1216	4020.8	7142.1	X25885.1	Y43512.6	140	42.9	53.
084	Feb-10	1438	4020.9	7138.3	X25855.5	Y43510.1	144	43.7	54.
085	Feb-10	1755	4013.3	7106.4	X25624.9	Y43423.9	145	65.1	56.
086	Feb-10	2023	4003.2	7052.6	X25550.4	Y43336.4	104	103.3	55.
087	Feb-10	2320	4013.7	7033.8	X25409.9	Y43403.2	268	62.9	59.
088	Feb-11	0139	4015.8	7046.5	X25485.2	Y43427.7	130	64.0	59.
089	Feb-11	0519	4034.5	7101.2	X25557.6	Y43580.1	004	38.3	45.
090	Feb-11	0703	4043.5	7102.8	X25561.8	Y43649.4	265	31.4	45.
091	Feb-11	0936	4043.5	7108.2	X25606.4	Y43655.3	339	32.3	45.
092	Feb-11	1157	4053.8	7121.0	X25715.7	Y43746.7	306	30.3	48.
093	Feb-11	1358	4101.4	7113.9	X25659.7	Y43793.4	090	25.7	46.
094	Feb-11	1548	4106.5	7101.0	X25550.4	Y43813.4	010	20.0	43.
095	Feb-16	1800	4100.8	7104.4	X25575.6	Y43776.9	139	26.0	46.
096	Feb-16	2107	4059.3	7051.2	X25459.6	Y43749.6	046	27.6	45.

NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY
1999 STATION INFORMATION

tion	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
--	------	----	------	-------	--------	--------	---	-----	----
97	Feb-17	0110	4111.3	7036.2	X25333.9	Y43814.2	067	17.8	39.9
98	Feb-17	0309	4111.0	7018.8	X25178.2	Y43790.1	179	16.7	38.7
99	Feb-17	0528	4100.0	7036.8	X25336.6	Y43737.7	136	25.7	42.3
.00	Feb-17	0912	4030.8	7026.4	X25318.6	Y43521.1	148	36.6	46.2
.01	Feb-17	1130	4015.4	7016.8	X25310.1	Y43403.8	181	52.5	52.7
.02	Feb-17	1451	4006.5	7016.3	X25334.2	Y43339.1	046	64.2	56.7
.03	Feb-17	1721	4013.8	6956.6	W14168.6	Y43378.4	093	49.8	49.1
.04	Feb-17	2029	4014.1	6947.0	W14118.5	Y43374.3	161	47.6	47.1
.05	Feb-17	2325	3956.6	6957.4	W14225.1	Y43257.5	094	160.5	51.4
.06	Feb-18	0135	4001.4	6942.4	W14135.2	Y43284.1	059	64.8	57.2
.07	Feb-18	0302	4004.2	6938.5	W14107.0	Y43301.9	113	57.7	57.0
.08	Feb-18	0455	4001.2	6924.6	W14047.8	Y43273.9	075	53.9	55.2
.09	Feb-18	0836	4011.6	6850.2	W13847.2	Y43325.5	074	69.4	54.3
.10	Feb-18	1115	4016.2	6827.6	W13725.4	Y43343.0	075	79.3	54.7
.11	Feb-18	1152	4016.4	6827.5	W13724.4	Y43344.4	259	71.9	54.7
.12	Feb-18	1533	4021.3	6804.7	W13603.2	Y43362.0	040	81.2	53.8
.13	Feb-18	1819	4028.4	6754.5	W13530.7	Y43398.8	093	64.0	53.2
.14	Feb-18	2018	4027.9	6742.2	W13479.3	Y43389.0	155	97.6	54.5
.15	Feb-18	2245	4039.4	6737.9	W13414.9	Y43452.1	062	45.9	45.3
.16	Feb-19	0100	4040.9	6728.8	W13369.6	Y43455.4	181	49.5	48.7
.17	Feb-19	0304	4035.9	6730.1	W13396.0	Y43427.7	111	53.6	50.0
.18	Feb-19	0544	4034.1	6718.8	W13356.2	Y43411.7	050	67.0	55.4
.19	Feb-19	1054	4059.6	6639.8	W13093.4	Y43526.0	080	47.6	43.9
.20	Feb-19	1305	4101.8	6628.8	W13042.5	Y43530.6	041	67.5	53.4
.21	Feb-19	1634	4116.9	6616.8	W12930.7	Y43599.0	020	63.2	51.3
.22	Feb-19	2058	4132.1	6600.3	W12802.0	Y43661.5	051	72.5	55.0
.23	Feb-20	0139	4154.4	6500.5	W12510.0	Y43720.8	322	99.5	53.1
.24	Feb-20	0428	4151.1	6556.0	W12696.3	Y43747.6	278	53.9	46.2
.25	Feb-20	0814	4152.6	6613.9	W12750.0	Y43769.2	232	43.5	41.9
.26	Feb-20	0836	4151.6	6616.1	W12762.3	Y43766.5	248	44.3	
.27	Feb-20	1215	4151.5	6642.9	W12860.7	Y43789.3	229	36.1	46.2
.28	Feb-20	1558	4134.6	6625.4	W12878.7	Y43692.4	197	47.6	41.0
.29	Feb-20	1950	4129.6	6646.6	W12982.2	Y43684.2	230	39.6	41.2
.30	Feb-21	0003	4116.4	6643.4	W13031.7	Y43614.9		42.1	41.5
.31	Feb-21	0248	4113.9	6638.3	W13023.8	Y43598.5	287	42.7	41.5
.32	Feb-21	0730	4118.4	6703.2	W13100.2	Y43640.0	197	34.4	41.7
.33	Feb-21	1041	4104.1	6704.3	W13169.3	Y43565.8	060	36.4	41.5
.34	Feb-21	1436	4101.9	6717.1	W13231.1	Y43563.2	300	36.6	41.5
.35	Feb-21	1751	4103.7	6744.9	W13341.6	Y43593.6	283	28.4	41.9
.36	Feb-21	2005	4103.9	6750.3	W13364.4	Y43599.0	212	27.3	41.9
.37	Feb-21	2206	4055.8	6757.7	W13432.4	Y43558.9	239	29.3	41.9
.38	Feb-22	0044	4048.5	6753.2	W13443.8	Y43513.8	205	38.0	41.9
.39	Feb-22	0309	4041.9	6802.7	W13513.2	Y43482.4	280	42.7	44.1
.40	Feb-22	0515	4048.8	6816.7	W13548.8	Y43532.4	249	28.2	42.1
.41	Feb-23	0710	4045.1	6800.4	W13489.6	Y43499.4	176	30.6	42.6
.42	Feb-23	0920	4031.3	6846.3	W13757.3	Y43447.7	079	38.0	42.1
.43	Feb-23	1139	4042.2	6848.9	W13727.6	Y43517.0	264	36.1	42.8
.44	Feb-23	1403	4042.0	6907.2	W13818.5	Y43530.1	260	38.0	42.6

NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY
1999 STATION INFORMATION

ation	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Tem (F)
---	------	----	------	-------	--------	--------	---	-----	---
145	Feb-23	1625	4041.1	6926.2	W13917.9	Y43540.0	174	27.6	41.
146	Feb-23	1824	4029.0	6926.9	W13965.3	Y43461.5	256	33.9	42.
147	Feb-23	2104	4028.1	6943.6	W14054.3	Y43468.1	281	38.5	42.
148	Feb-23	2324	4041.2	6955.1	W14069.1	Y43565.4	263	26.0	40.