

# Resource Survey Report

## Bottom Trawl Survey

Cape Hatteras – SE Georges Bank

February 7 – March 2, 2006

*R/V Albatross IV*



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



Clockwise from top left: Typical catch during the Winter Bottom Trawl Survey; Scientist Alicia Long with Summer Flounder; Fluke on scale

# RESOURCE SURVEY REPORT

## Catch Summary

NOAA Fisheries Service  
Northeast Fisheries Science Center

**Winter Bottom Trawl Survey**  
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February 7 – March 2, 2006

This report consists of field notes, station and catch summaries and a series of geographical plots of commercial and recreational important species caught during the Northeast Fisheries Science Center's 2006 winter bottom trawl survey aboard the *R/V ALBATROSS IV*. Tows were made with a standardized #36 Yankee flat trawl equipped with a rubber disc covered chain sweep, 30 fathom ground cables, 5 fathom legs and 1000 pound polyvalent doors. The cod end and upper belly were lined with 1/2-inch mesh to retain young-of-the-year fish.

Because of the 30-minute tow duration, and random selection of station locations, catches can be light compared to commercial tows. Also, vessel operations are on a 24-hour basis and catches have not been adjusted for day/night differences. Nevertheless, these data can provide fishermen useful information about distribution and relative abundance of species inhabiting the survey area (Cape Hatteras to Georges Bank).

The data are now summarized from audited catch files generated from the Fisheries Scientific Computer System (FSCS).

For further information contact Russell Brown (508-495-2380) or Linda Despres (508-495-2346), NOAA Fisheries, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report on the Ecosystems Surveys Branch website, go to: [http://www.nefsc.noaa.gov/esb/Resource\\_Survey\\_Reports.htm](http://www.nefsc.noaa.gov/esb/Resource_Survey_Reports.htm)

## Field Notes

*In an effort to share some of the natural history observations made during the bottom trawl survey, we have requested that the Chief Scientists on each part of the cruise comment on some of the more interesting catches that were brought aboard the R/V ALBATROSS IV.*

### **Good Stretch of Weather**

The first leg of the Winter Bottom Trawl Survey lost little more than one day due to bad weather at a time of year when storms are notorious for shutting down fishing operations. This stretch of good weather allowed this portion of the survey to complete 84 stations, an unusually high number compared to previous years.

### **Large Monkfish Catches**

Three stations had significantly large catches of monkfish. At station 11, the largest monkfish catch in the 43 year history of the bottom trawl surveys was caught at an average depth of 190 fathoms. Two hundred individuals ranging from 10 to 32 inches weighed a total of 888 pounds. This is more than double the next largest Winter Bottom Trawl Survey catch, which occurred in 2004. Stations 17 and 19 also had significant monkfish catches with 377 and 218 pounds respectively.

### **Memorable Black Sea Bass**

At station 16, an especially noteworthy black sea bass was captured offshore. Measuring 24 inches, it is the third largest in survey history. Two individuals measuring 25 inches were recorded in 1981.

### **Small Yellowtail**

Small yellowtail flounder appeared to be more abundant offshore from Nantucket south to Delaware. Individuals ranged from 2 to 19 inches with the majority between 8 to 12 inches. The highest concentrations were seen offshore of the eastern end of Long Island.

### **More Barndoor Skates?**

It is interesting to note that many small barndoor skates were captured in the same vicinity as the yellowtail flounder, as well as directly south of Cape Cod. Twenty years ago catching a barndoor skate during a survey was a rare occurrence.

### **Bad Weather Blues**

Unusually long stretches of bad weather during the second leg prevented the occupation of a portion of the originally planned stations.

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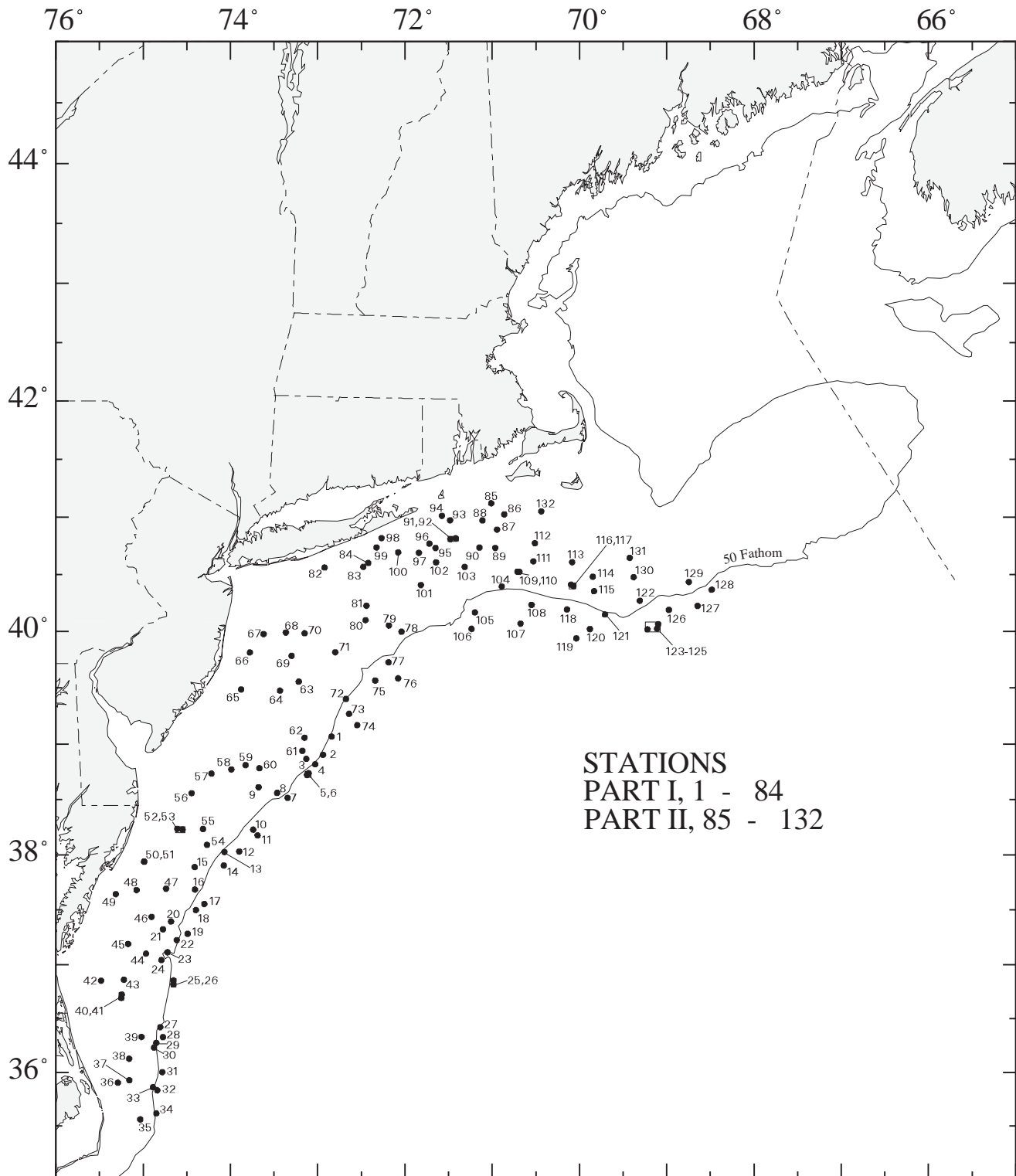


Figure 1. Trawl hauls made from F/V ALBATROSS IV, during NOAA Fisheries Service, Northeast Fisheries Science Center winter bottom trawl survey (06 - 02), February 7 - March 2, 2006.

NOAA Fisheries Service WINTER BOTTOM TRAWL SURVEY  
2006 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0001	FEB-08	0205	3904.0	7250.4	X26362.5	Y42859.1	210	58.2	55.6
0002	FEB-08	0452	3854.2	7256.4	X26395.6	Y42764.1	199	61.8	56.5
0003	FEB-08	0653	3852.0	7307.8	X26464.7	Y42739.2	241	42.7	55.6
0004	FEB-08	0847	3849.1	7301.7	X26425.8	Y42713.2	234	86.1	55.9
0005	FEB-08	1032	3844.3	7306.2	X26450.4	Y42664.0	220	73.8	56.1
0006	FEB-08	1201	3843.4	7307.3	X26456.4	Y42654.9	041	71.9	
0007	FEB-08	1505	3831.0	7320.6	X26526.7	Y42524.7	182	65.1	53.4
0008	FEB-08	1657	3833.7	7327.9	X26571.1	Y42547.2	301	43.5	53.6
0009	FEB-08	1904	3836.7	7340.6	X26648.3	Y42570.0	187	32.5	52.2
0010	FEB-08	2213	3813.8	7344.3	X26645.7	Y42332.2	145	65.3	56.5
0011	FEB-09	0020	3810.7	7341.3	X26626.4	Y42303.3	205	189.5	45.1
0012	FEB-09	0236	3801.9	7353.9	X26685.5	Y42200.1	217	82.6	56.1
0013	FEB-09	0431	3801.6	7404.1	X26739.2	Y42185.6	217	57.1	56.5
0014	FEB-09	0621	3754.3	7404.5	X26732.9	Y42108.6	023	72.7	55.4
0015	FEB-09	0920	3753.5	7424.6	X26835.0	Y42073.9	179	32.3	52.9
0016	FEB-09	1114	3741.2	7424.4	X26818.1	Y41943.7	144	39.6	56.7
0017	FEB-09	1402	3733.3	7418.0	X26776.9	Y41869.9	027	189.7	50.0
0018	FEB-09	1610	3730.0	7423.8	X26801.2	Y41825.8	210	52.5	57.2
0019	FEB-09	1853	3716.9	7429.5	X26812.9	Y41679.4	358	158.3	50.9
0020	FEB-09	2111	3723.6	7440.8	X26874.5	Y41730.3	185	32.5	54.3
0021	FEB-09	2248	3719.4	7446.4	X26894.6	Y41675.0	173	29.0	52.9
0022	FEB-10	0111	3713.5	7436.9	X26843.0	Y41629.3	206	48.4	56.7
0023	FEB-10	0249	3706.7	7443.3	X26864.3	Y41545.9	256	65.1	56.3
0024	FEB-10	0656	3702.4	7447.5	X26877.4	Y41492.0	161	36.4	54.9
0025	FEB-10	0928	3651.2	7439.2	X26827.8	Y41391.7	190	111.5	54.9
0026	FEB-10	1156	3649.1	7439.2	X26825.5	Y41370.4	203	147.1	54.3
0027	FEB-10	1522	3625.3	7448.2	X26838.2	Y41105.1	195	47.6	53.6
0028	FEB-10	1723	3619.8	7446.4	X26825.0	Y41053.9	184	129.3	49.8
0029	FEB-10	1926	3616.6	7451.0	X26840.6	Y41009.7	205	43.5	52.3
0030	FEB-10	2059	3613.9	7452.6	X26844.1	Y40979.2	189	42.9	52.9
0031	FEB-10	2333	3600.2	7446.9	X26808.2	Y40860.6	183	197.9	49.8
0032	FEB-11	0230	3550.1	7450.3	X26812.4	Y40752.9	331	179.9	47.1
0033	FEB-11	0408	3551.8	7453.3	X26825.3	Y40759.8	214	44.8	55.4
0034	FEB-11	0632	3537.1	7451.0	X26803.6	Y40629.2	176	39.1	63.7
0035	FEB-11	0842	3533.7	7502.0	X26841.4	Y40561.1	298	22.1	67.3
0036	FEB-11	1147	3554.3	7517.4	X26920.1	Y40710.6	061	16.4	60.4
0037	FEB-11	1309	3555.7	7509.5	X26891.4	Y40748.3	013	17.0	63.5
0038	FEB-11	1457	3607.8	7509.6	X26905.1	Y40869.2	026	18.3	64.0
0039	FEB-11	1700	3619.9	7501.2	X26885.2	Y41016.2	029	22.7	59.2
0040	FEB-11	2026	3641.6	7515.1	X26969.1	Y41210.2	019	18.9	46.0
0041	FEB-11	2151	3643.4	7514.8	X26970.5	Y41230.7	345	15.9	47.7
0042	FEB-12	0005	3651.1	7529.0	X27040.9	Y41283.3	087	13.1	47.3
0043	FEB-12	0156	3651.6	7513.2	X26975.4	Y41322.6	059	16.1	47.1
0044	FEB-12	0432	3706.0	7458.1	X26929.4	Y41508.8	256	23.8	54.9
0045	FEB-12	2103	3711.3	7510.4	X26991.8	Y41543.8	287	15.6	45.5
0046	FEB-13	0057	3726.2	7454.2	X26940.9	Y41735.6	312	20.5	46.9
0047	FEB-13	0427	3741.7	7444.3	X26916.3	Y41919.4	309	26.0	47.8
0048	FEB-13	0656	3740.9	7504.6	X27013.1	Y41880.7	311	17.5	44.8

NOAA Fisheries Service WINTER BOTTOM TRAWL SURVEY  
2006 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0049	FEB-13	0909	3738.7	7518.8	X27076.4	Y41835.0	037	13.9	43.3
0050	FEB-13	1206	3756.4	7459.3	X27014.8	Y42061.0	055	15.6	43.0
0051	FEB-13	1524	3756.4	7459.3	X27014.8	Y42061.0	055		45.5
0052	FEB-13	1540	3814.2	7436.5	X26928.9	Y42284.7	056	22.1	45.3
0053	FEB-13	1705	3813.9	7433.0	X26909.7	Y42284.4	126	21.3	46.2
0054	FEB-13	1940	3805.5	7416.1	X26807.4	Y42212.6	079	30.6	49.8
0055	FEB-13	2123	3814.1	7418.9	X26834.5	Y42301.9	358	26.2	47.7
0056	FEB-14	0006	3833.5	7426.7	X26908.6	Y42504.2	047	22.7	45.3
0057	FEB-14	0213	3844.1	7413.0	X26848.4	Y42627.3	074	24.6	45.0
0058	FEB-14	0401	3846.3	7359.4	X26771.5	Y42658.7	075	25.2	46.2
0059	FEB-14	0538	3848.7	7349.6	X26716.1	Y42688.1	087	25.4	46.4
0060	FEB-14	0723	3847.0	7340.1	X26656.8	Y42675.2	072	31.2	47.8
0061	FEB-14	1036	3856.4	7310.6	X26484.6	Y42780.9	009	43.2	50.2
0062	FEB-14	1220	3903.4	7309.1	X26480.8	Y42849.9	325	38.3	48.9
0063	FEB-14	1604	3933.3	7313.1	X26535.9	Y43143.1	321	22.1	46.2
0064	FEB-14	1806	3928.5	7325.9	X26618.4	Y43098.3	240	18.9	44.4
0065	FEB-14	2121	3929.2	7352.6	X26800.2	Y43108.3	032	16.4	42.4
0066	FEB-14	2357	3948.9	7346.7	X26797.8	Y43309.4	041	15.6	43.2
0067	FEB-15	0154	3958.6	7337.2	X26749.0	Y43402.5	055	18.9	43.7
0068	FEB-15	0353	3959.4	7321.9	X26637.2	Y43401.4	139	39.4	45.5
0069	FEB-15	0559	3947.1	7318.0	X26588.6	Y43279.0	124	23.5	45.7
0070	FEB-15	0852	3959.0	7309.0	X26540.3	Y43389.1	109	27.1	45.9
0071	FEB-15	1136	3949.0	7247.9	X26372.7	Y43282.8	156	33.6	48.0
0072	FEB-15	1448	3924.1	7240.6	X26306.2	Y43049.0	186	52.2	55.9
0073	FEB-15	1631	3916.1	7238.4	X26289.1	Y42974.4	151	71.1	55.0
0074	FEB-15	1858	3910.1	7232.8	X26251.9	Y42918.3	071	181.3	43.9
0075	FEB-15	2211	3933.9	7220.4	X26170.8	Y43134.3	082	62.1	55.4
0076	FEB-16	0039	3935.1	7204.7	X26063.4	Y43139.9	221	109.6	51.4
0077	FEB-16	0310	3943.6	7211.3	X26107.3	Y43217.3	052	61.2	55.6
0078	FEB-16	0556	3959.8	7202.3	X26041.7	Y43353.5	333	43.5	53.8
0079	FEB-16	0733	4003.1	7211.0	X26106.7	Y43387.5	249	42.1	47.8
0080	FEB-16	0929	4006.0	7227.1	X26229.9	Y43424.1	301	32.8	46.0
0081	FEB-16	1108	4013.6	7226.5	X26230.8	Y43490.6	316	32.3	45.9
0082	FEB-16	1508	4033.7	7255.3	X26488.9	Y43697.5	040	17.8	42.3
0083	FEB-16	1755	4034.0	7228.6	X26269.8	Y43670.1	053	22.7	43.3
0084	FEB-16	1916	4036.1	7225.2	X26244.2	Y43683.5	043	23.2	43.5
0085	FEB-22	1434	4107.2	7100.7	X25548.7	Y43817.8	165	19.4	43.0
0086	FEB-22	1816	4101.4	7051.7	X25464.1	Y43765.6	241	25.7	42.8
0087	FEB-22	2008	4053.5	7056.7	X25507.0	Y43715.2	282	30.6	44.1
0088	FEB-22	2205	4058.3	7106.7	X25594.1	Y43761.9	180	28.2	44.6
0089	FEB-23	0045	4043.9	7057.9	X25522.2	Y43646.8	254	33.1	43.5
0090	FEB-23	0220	4044.1	7108.8	X25610.7	Y43660.2	288	32.3	43.7
0091	FEB-23	0422	4049.0	7125.1	X25747.9	Y43715.3	264	32.5	45.5
0092	FEB-23	0612	4048.6	7128.7	X25778.5	Y43716.7	001	33.4	43.9
0093	FEB-23	0753	4058.3	7129.0	X25789.0	Y43790.8	287	27.6	46.2
0094	FEB-23	0942	4100.7	7134.6	X25841.3	Y43816.0	182	24.6	44.2
0095	FEB-23	1208	4043.9	7138.9	X25863.0	Y43693.0	309	37.2	46.9
0096	FEB-23	1346	4046.2	7143.2	X25901.1	Y43715.7	226	32.5	48.6
0097	FEB-23	1534	4041.4	7150.4	X25958.0	Y43686.5	294	29.5	45.3

NOAA Fisheries Service WINTER BOTTOM TRAWL SURVEY  
2006 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0098	FEB-23	1827	4049.1	7216.1	X26185.8	Y43780.8	219	18.9	41.7
0099	FEB-23	1957	4044.2	7219.6	X26207.9	Y43744.7	109	23.0	42.8
0100	FEB-23	2145	4041.6	7204.7	X26078.5	Y43705.0	149	26.5	43.0
0101	FEB-24	0040	4024.5	7149.0	X25939.7	Y43548.6	062	39.1	45.0
0102	FEB-24	0256	4036.3	7138.6	X25856.9	Y43633.4	098	39.9	46.6
0103	FEB-24	0513	4033.9	7118.9	X25697.1	Y43593.9	110	36.9	44.2
0104	FEB-24	0826	4023.7	7053.4	X25515.8	Y43492.5	263	48.9	53.8
0105	FEB-25	0524	4010.0	7111.9	X25668.4	Y43402.2	212	70.0	56.7
0106	FEB-25	0717	4001.3	7114.2	X25696.1	Y43335.1	091	118.1	50.9
0107	FEB-25	1041	4004.1	7040.5	X25474.0	Y43336.0	033	70.5	56.8
0108	FEB-25	1250	4014.0	7032.9	X25404.3	Y43404.6	333	61.8	56.1
0109	FEB-25	1522	4031.5	7042.6	X25424.6	Y43540.8	050	39.6	43.0
0110	FEB-25	1630	4031.4	7041.3	X25416.1	Y43539.1	082	39.4	
0111	FEB-25	1816	4036.9	7031.7	X25337.1	Y43569.7	077	34.2	39.9
0112	FEB-25	2014	4046.4	7030.6	X25307.1	Y43635.5	115	29.0	41.5
0113	FEB-25	2339	4036.5	7005.0	X25181.1	Y43542.2	313	28.7	39.4
0114	FEB-26	1347	4028.9	6950.8	W14089.1	Y43478.4	360	38.5	40.6
0115	FEB-26	1806	4021.2	6950.0	W14110.5	Y43425.6	255	42.9	41.9
0116	FEB-26	2345	4024.6	7005.8	X25225.3	Y43460.9	309	42.1	41.9
0117	FEB-28	0222	4023.9	7004.1	X25219.7	Y43454.7	275	42.1	40.3
0118	FEB-28	0448	4011.6	7008.6	X25281.3	Y43370.7	081	55.8	52.7
0119	FEB-28	0751	3956.3	7002.1	X25299.6	Y43258.1	086	160.5	48.7
0120	FEB-28	0934	4001.2	6952.8	W14187.9	Y43288.2	046	77.1	55.9
0121	FEB-28	1126	4008.9	6942.5	W14112.0	Y43336.3	085	51.4	51.8
0122	FEB-28	1422	4016.2	6918.5	W13968.3	Y43371.2	157	47.6	41.9
0123	FEB-28	1644	4001.1	6913.2	W13992.7	Y43268.3	051	97.9	51.3
0124	FEB-28	1926	4003.8	6905.8	W13948.4	Y43282.8	273	88.6	51.4
0125	FEB-28	2241	4001.5	6906.6	W13959.7	Y43267.7	250	110.2	50.0
0126	MAR-01	0222	4011.4	6858.5	W13887.6	Y43328.5	280	72.2	54.5
0127	MAR-01	0617	4013.5	6838.7	W13786.9	Y43331.6	275	70.5	55.8
0128	MAR-01	1002	4022.0	6829.1	W13710.8	Y43379.5	297	55.8	56.1
0129	MAR-01	1329	4026.1	6844.8	W13769.3	Y43414.1	284	44.0	47.5
0130	MAR-01	1744	4028.6	6922.7	W13945.8	Y43455.9	319	35.0	40.1
0131	MAR-01	1940	4038.7	6925.4	W13922.8	Y43523.9	305	29.3	39.6
0132	MAR-02	0157	4103.0	7026.2	X25245.1	Y43745.7	303	21.9	41.0

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY  
 ALBATROSS IV FEB 7-MAR 2, 2006  
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

STATION	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL* OTHER	TOTAL ALL	
1	0	0	0	0	1	0	22	32	0	12	0	1	0	12	0	0	0	0	0	7	14	0	0	30	0	47	166
2	0	0	0	0	0	0	9	19	0	4	0	1	0	4	0	0	0	0	0	2	0	0	0	119	0	14	168
3	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	9	
4	0	0	0	0	0	0	13	12	0	15	0	3	0	15	0	0	0	0	0	0	16	0	0	596	0	22	677
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	5	
6	0	0	0	0	0	0	3	10	0	10	0	2	0	10	0	0	0	0	0	0	0	0	0	28	0	11	64
7	0	0	0	0	0	0	0	240	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	52	0	34	329
8	0	0	0	0	1	0	12	220	0	49	0	12	0	49	0	10	0	0	0	9	0	0	0	113	0	103	529
9	0	0	0	0	0	0	6	1725	0	184	155	1	0	184	20	20	0	0	79	2	2	0	61	0	485	2718	
10	0	0	0	0	0	0	7	232	0	21	0	0	0	21	0	0	0	0	0	0	1	0	156	2	154	573	
11	0	0	0	0	10	0	887	154	0	0	0	9	0	0	0	0	0	0	0	0	0	4	0	0	159	1223	
12	0	0	0	0	1	0	1	359	0	11	0	0	0	11	0	0	0	0	0	0	5	0	0	106	1	98	582
13	0	0	0	0	0	0	7	98	0	20	0	0	0	20	0	5	0	0	0	0	0	0	0	7	0	47	184
14	0	0	0	0	1	0	4	1059	0	16	0	0	0	16	0	12	0	0	0	0	15	0	0	260	1	151	1519
15	0	0	0	0	0	0	0	22	0	9	159	0	0	9	0	0	0	0	0	61	3	0	0	32	0	71	358
16	0	0	0	0	0	0	0	0	0	82	8	1	0	82	0	18	0	0	0	9	0	0	0	78	0	37	233
17	0	0	0	0	20	0	386	1859	0	0	0	12	0	0	0	0	0	0	0	0	0	13	0	13	27	141	2494
18	0	0	0	0	0	0	4	400	0	31	5	0	0	31	0	14	0	0	0	0	0	0	0	100	0	195	749
19	0	0	0	0	16	0	219	612	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	912
20	0	0	0	0	0	0	10	56	0	65	1	0	0	65	1	14	0	0	15	0	0	0	0	28	0	328	517
21	0	0	0	0	0	0	9	1873	0	136	1	0	0	136	1	9	0	0	11	0	0	0	0	63	0	561	2664
22	0	0	0	0	0	0	0	138	0	38	0	0	0	38	0	10	0	0	0	0	0	3	0	88	0	286	563
23	0	0	0	0	0	0	8	16	0	8	0	0	0	8	0	0	0	0	0	0	0	0	2	0	0	44	78
24	0	0	0	0	0	0	0	286	0	255	137	0	0	255	9	9	0	0	0	8	0	0	0	50	0	415	1160
25	0	0	0	0	1	0	6	344	0	32	0	0	0	32	0	3	0	0	0	0	0	0	0	1	0	143	530
26	0	0	0	0	10	0	153	10850	0	23	0	22	0	23	0	0	0	0	0	0	0	0	0	0	0	461	11520
27	0	0	0	0	0	0	43	3132	0	150	0	0	0	150	0	0	0	0	0	0	0	0	8	0	0	617	3950
28	0	0	0	0	3	0	85	398	0	31	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	420	937
29	0	0	0	0	0	0	26	239	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	70	0	774	1116
30	0	0	0	0	0	0	0	552	0	17	0	0	0	17	0	0	0	0	0	0	0	0	99	0	1098	1766	
31	0	0	0	0	0	0	56	12	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	58	128
32	0	0	0	0	4	0	20	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	101
33	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	43	116	
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	212	216
35	0	0	0	0	0	0	0	0	0	3	2	0	0	3	2	0	0	0	0	0	0	0	44	0	0	529	578
36	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	25	0	0	205	232
37	0	0	0	0	0	0	5	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	10	0	0	29	47



NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY  
ALBATROSS IV FEB 7-MAR 2, 2006  
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL* OTHER	TOTAL ALL	
38	0	0	0	0	0	0	42	0	0	0	0	0	0	9	0	1	0	0	0	0	0	0	0	0	312	403	
39	0	0	0	0	0	0	30	5	0	33	0	0	0	33	0	0	0	0	0	4	0	0	0	0	1096	1220	
40	0	0	0	0	0	0	0	612	0	36	0	0	2	36	0	0	0	0	5	75	1	0	10	0	363	1104	
41	0	0	0	0	0	0	0	644	0	49	0	0	7	49	0	0	0	0	40	10	0	0	3	0	158	911	
42	0	0	0	0	0	0	0	286	0	22	0	5	22	22	0	0	0	0	124	3	0	0	1	0	22	463	
43	0	0	0	0	0	0	3	334	0	23	0	0	0	23	0	0	0	0	12	10	0	0	2	0	75	460	
44	0	0	0	0	0	0	10	69	0	0	0	1	0	0	0	0	0	0	4	59	0	0	4	0	251	419	
45	0	0	0	0	0	0	15	4899	0	12	0	3	12	12	0	0	0	0	15	32	1	0	0	0	41	5018	
46	0	0	0	0	0	0	7	514	0	15	0	1	15	15	0	0	0	0	0	82	1	0	2	0	46	668	
47	0	0	0	0	0	0	20	323	0	9	0	0	0	9	0	0	0	0	9	193	35	0	33	0	44	666	
48	0	0	0	0	0	0	0	1070	0	6	0	7	6	6	0	0	10	2	0	96	0	0	7	0	37	1235	
49	0	0	0	0	2	0	0	556	0	7	0	7	7	7	0	0	3	0	1	85	0	0	0	0	14	677	
50	0	0	0	0	1	0	0	1251	0	3	0	34	3	3	0	0	9	1	4	108	1	0	2	0	21	1435	
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	6	1177	0	39	0	49	39	39	0	0	0	114	0	102	1	0	144	0	18	1650	
53	0	0	0	0	0	0	13	1835	0	31	0	21	31	31	0	0	1	25	0	66	1	8	181	0	10	2192	
54	0	0	0	0	0	0	0	532	3	21	0	0	21	21	0	7	0	0	0	47	1	0	8	0	48	667	
55	0	0	0	0	0	0	0	525	1	16	0	0	16	16	0	0	0	0	10	100	3	0	21	0	60	736	
56	0	0	0	0	1	0	15	1235	0	9	0	4	9	9	0	0	154	7	9	317	0	0	16	0	50	1817	
57	0	0	0	0	0	0	27	1252	0	2	0	7	2	2	0	0	83	37	21	267	0	0	10	0	94	1800	
58	0	0	0	0	0	0	9	1115	0	2	0	0	2	2	0	0	0	0	0	311	0	0	27	0	82	1546	
59	0	0	0	0	0	0	7	1359	3	28	0	1	28	28	0	0	0	1	0	207	0	0	26	0	77	1709	
60	0	0	0	0	2	0	4	1726	5	57	0	0	57	57	0	0	0	1	8	161	0	0	79	0	76	2119	
61	0	0	0	0	0	0	12	217	0	115	0	0	115	115	182	19	0	0	0	69	36	3	36	0	57	768	
62	0	0	0	0	0	0	16	541	0	105	0	0	105	105	5	2	0	0	0	43	2	0	54	0	88	856	
63	0	0	0	0	1	0	0	1856	1	5	0	1	5	5	0	0	0	13	0	88	0	0	68	0	11	2044	
64	0	0	0	0	0	0	0	486	1	0	0	2	0	0	0	0	11	11	0	108	0	0	5	0	7	621	
65	0	0	0	0	4	0	0	134	0	0	0	4	0	0	0	0	9	1	18	156	0	0	0	0	4	330	
66	0	0	0	0	0	0	0	499	0	0	0	7	0	0	0	0	113	453	21	176	0	0	2	0	38	1315	
67	0	0	0	0	2	0	0	231	2	0	0	0	0	0	0	1	3	0	3	204	0	0	3	0	10	465	
68	0	0	0	0	3	0	21	884	0	0	0	0	0	0	0	0	0	0	0	57	0	1	1	0	26	993	
69	0	0	0	0	1	0	0	672	1	2	0	0	2	2	0	0	22	10	2	114	1	0	28	0	13	869	
70	0	0	0	0	1	0	0	3669	0	50	0	0	82	82	0	154	72	82	82	290	0	0	53	0	26	4397	
71	0	0	0	0	4	0	0	74	0	76	0	4	4	76	2	0	3	45	4	208	7	0	47	0	70	542	
72	0	0	0	0	6	0	7	33	0	56	0	2	0	56	133	12	0	0	5	0	9	0	12	0	66	341	
73	0	0	0	0	7	0	5	86	0	9	0	2	0	9	0	1	0	0	0	0	1	0	63	0	75	249	
74	0	0	0	0	13	0	71	120	0	0	0	18	0	0	0	0	0	0	0	0	0	7	0	0	66	295	
75	0	0	0	0	1	0	12	10	0	6	0	0	0	6	0	0	0	0	0	0	21	0	71	0	60	181	

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY  
 ALBATROSS IV FEB 7-MAR 2, 2006  
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

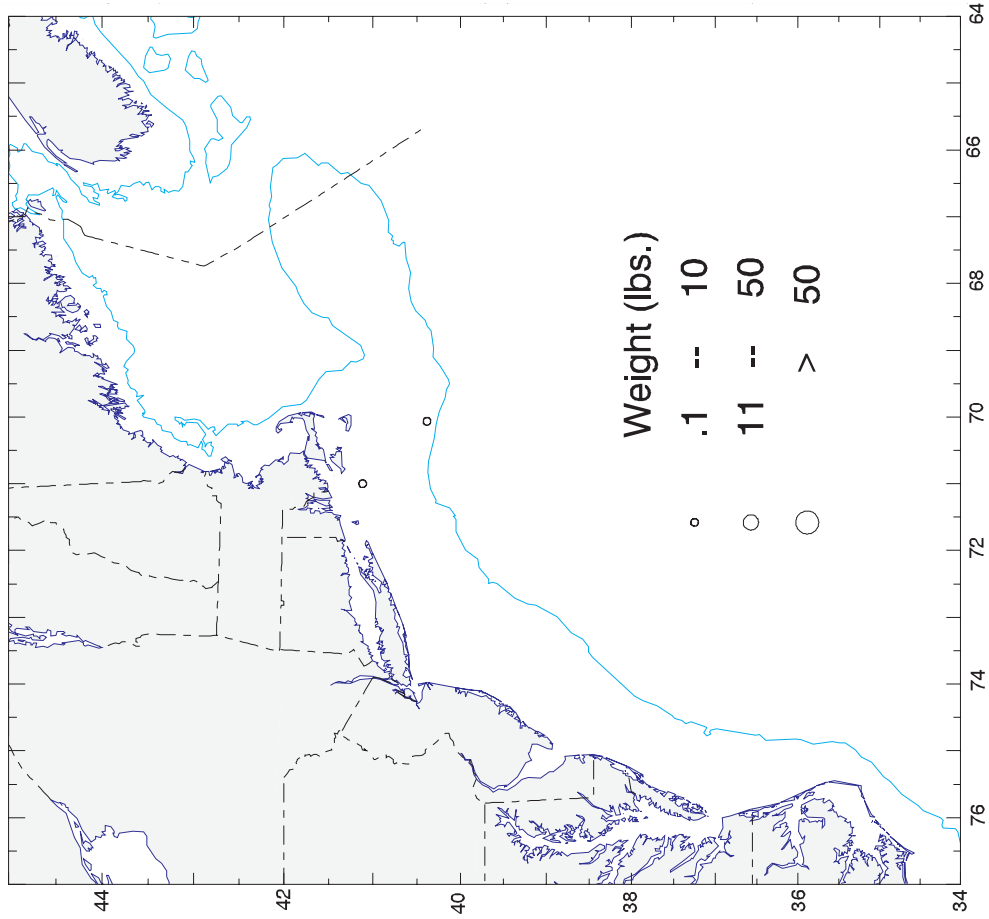
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL* OTHER	TOTAL ALL	
76	0	0	0	0	68	0	14	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4	0	36	127	
77	0	0	0	0	4	0	10	2	0	0	0	0	0	31	4	3	0	0	0	13	9	0	8	0	0	26	110
78	0	0	0	0	5	0	25	92	0	0	0	6	0	168	60	0	1	0	38	43	0	15	0	0	197	650	
79	0	0	0	0	2	0	18	50	0	0	0	3	0	212	1	0	1	0	80	16	0	59	0	0	88	531	
80	0	0	0	0	1	0	14	98	3	0	0	2	0	111	0	0	0	0	354	2	0	125	0	0	73	792	
81	0	0	0	0	4	0	10	131	25	0	0	1	0	50	0	0	4	73	510	0	0	46	0	0	47	924	
82	0	0	0	0	0	0	0	239	1	23	0	0	14	0	0	0	2	0	4	127	0	3	0	0	16	429	
83	0	0	0	0	0	0	0	595	22	3	0	0	4	0	0	11	3	44	256	0	0	0	1	0	14	953	
84	0	0	0	0	2	0	1	912	26	5	0	0	2	0	0	11	1	46	325	0	0	2	0	0	26	1359	
85	4	0	0	0	0	0	0	5	2	7	0	0	2	0	0	0	0	7	23	0	0	0	0	0	14	64	
86	0	0	0	0	4	0	9	19	23	21	0	0	45	2	0	0	143	11	285	315	1	0	0	0	37	915	
87	0	0	0	0	3	0	19	3	24	0	0	0	12	0	0	259	22	329	1181	7	0	1	0	0	80	1940	
88	0	0	0	0	4	0	10	19	92	11	0	0	20	6	0	32	15	563	425	2	2	6	1	0	57	1264	
89	0	0	0	0	4	0	36	17	4	0	0	0	28	15	0	0	0	163	466	1	1	0	1	0	99	834	
90	0	0	0	0	2	0	60	13	6	0	0	0	2	4	0	0	0	230	324	0	0	0	1	0	113	755	
91	0	0	0	0	2	0	169	17	9	0	0	1	0	6	0	12	321	304	442	1	0	2	0	0	42	1332	
92	0	0	0	0	5	0	83	20	7	0	0	1	0	36	0	0	17	11	174	387	11	0	2	0	88	843	
93	0	0	0	0	2	0	54	58	131	55	0	0	4	34	0	6	210	57	133	18	0	6	0	0	150	922	
94	0	0	0	0	4	0	12	35	34	116	0	0	13	9	0	18	2	33	317	1	0	3	0	0	357	950	
95	0	0	0	0	4	0	15	138	2	0	0	2	0	65	0	6	121	72	222	15	0	3	0	0	106	775	
96	0	0	0	0	1	0	23	117	143	9	0	0	1	31	1	3	30	6	29	537	13	5	2	0	0	102	1055
97	0	0	0	0	1	0	6	13	90	4	0	1	24	65	0	0	0	436	53	201	97	0	3	0	75	1072	
98	0	0	0	0	6	0	0	50	0	9	0	0	3	0	0	0	0	0	159	0	0	0	0	0	11	289	
99	0	0	0	0	8	0	0	292	18	1	0	0	6	1	0	2	0	51	270	0	0	0	1	0	40	690	
100	0	0	0	0	1	0	4	16	25	1	0	0	11	0	0	0	39	52	545	0	0	0	1	0	67	762	
101	0	0	0	0	5	0	33	53	0	0	0	5	0	22	0	0	0	8	219	5	5	0	6	0	111	468	
102	0	0	0	0	2	0	20	11	0	0	0	5	0	0	0	0	0	5	117	0	0	2	1	0	44	207	
103	0	0	0	0	2	0	46	23	1	0	0	2	0	3	0	0	0	216	221	0	0	0	0	0	39	553	
104	0	0	0	0	0	0	30	0	0	0	0	0	0	103	0	0	0	0	1	10	10	1	25	0	52	222	
105	0	0	0	0	2	0	9	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	9	0	35	57	
106	0	0	0	0	4	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1	1	30	108	
107	0	0	0	0	1	0	19	0	0	0	0	0	0	14	0	0	0	8	0	0	19	0	103	0	18	183	
108	0	0	0	0	0	0	9	0	0	0	0	0	3	145	0	0	0	0	0	0	10	0	62	0	43	282	
109	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	7	3	0	0	1	0	3	19	
110	0	0	0	0	3	0	16	17	2	0	0	0	26	7	0	5	0	179	2	2	2	0	4	0	25	289	
111	0	0	0	0	2	0	2	4	0	0	0	0	0	2	0	0	0	12	92	0	0	0	0	0	17	131	
112	0	0	0	0	5	0	8	0	2	0	0	0	2	1	0	0	1	155	487	0	0	0	0	0	39	748	
113	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	43	450	0	0	0	0	0	1	495	

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY  
 ALBATROSS IV FEB 7-MAR 2, 2006  
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

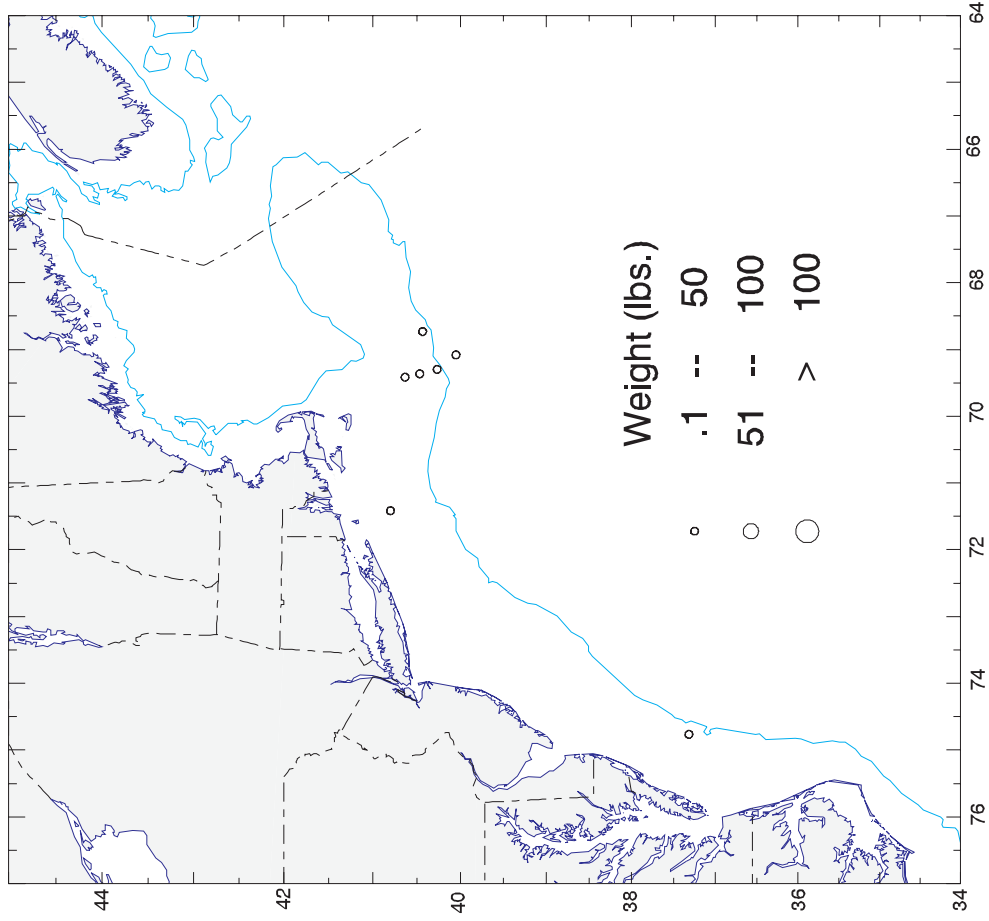
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL* OTHER	TOTAL ALL
114	0	0	0	0	0	0	0	7	4	0	0	0	10	1	0	0	0	0	19	179	0	0	0	0	18	238
115	0	0	0	1	0	0	10	0	2	0	0	6	11	0	0	0	0	0	427	65	0	0	0	0	25	550
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	7	0	0	0	1	0	26	0	1	0	0	2	4	9	0	0	0	0	269	178	0	0	0	0	13	510
118	0	0	0	2	0	0	120	9	0	0	0	0	0	121	0	0	0	0	557	16	8	0	7	0	172	1012
119	0	0	0	4	12	0	298	4	0	0	0	42	0	0	0	0	0	0	0	0	0	5	7	0	93	465
120	0	0	0	0	10	0	32	7	0	0	0	3	0	20	0	0	0	0	0	1	29	0	65	0	101	268
121	0	0	0	1	5	0	16	4	10	0	0	3	19	266	0	0	0	0	50	8	8	0	9	0	65	464
122	0	0	0	1	1	0	3	1	20	0	0	10	11	13	0	0	0	0	5	16	5	0	5	0	42	133
123	0	0	0	0	13	0	27	5	0	0	0	9	0	6	0	0	0	0	37	0	0	0	85	1	189	372
124	0	0	0	0	1	0	44	34	0	0	0	0	0	0	0	0	0	0	93	0	0	0	20	0	307	499
125	0	0	0	0	9	0	26	4	0	0	0	1	0	0	0	0	0	0	33	0	0	0	2	0	184	259
126	0	0	0	0	0	0	126	0	0	0	0	0	28	205	0	0	0	0	326	11	0	0	0	0	100	796
127	0	0	0	0	0	0	4	0	0	0	0	8	43	140	0	0	0	0	124	31	0	0	5	0	18	373
128	0	0	0	0	2	0	0	0	150	0	0	6	87	15	0	0	0	0	559	31	9	0	0	0	42	901
129	0	2	0	0	0	0	0	16	5	2	0	1	16	1	0	0	0	0	23	1	0	0	0	0	15	82
130	0	0	0	0	0	0	0	0	2	0	0	5	1	1	0	0	0	0	87	355	0	0	0	0	30	480
131	0	1	0	0	0	0	0	0	1	7	0	1	1	0	0	0	0	0	43	128	0	0	0	0	3	184
132	0	0	0	0	2	0	0	0	1	0	0	1	1	0	0	0	1	0	11	9	0	0	0	0	3	28
TOTAL	11	3	0	73	364	0	3915	58943	905	289	0	260	616	4065	858	172	1172	2068	6258	14325	521	60	4133	34	15560	114605

\* "Total other" are comprised primarily of clearnose skates, northern and striped sea robins and sea scallops.

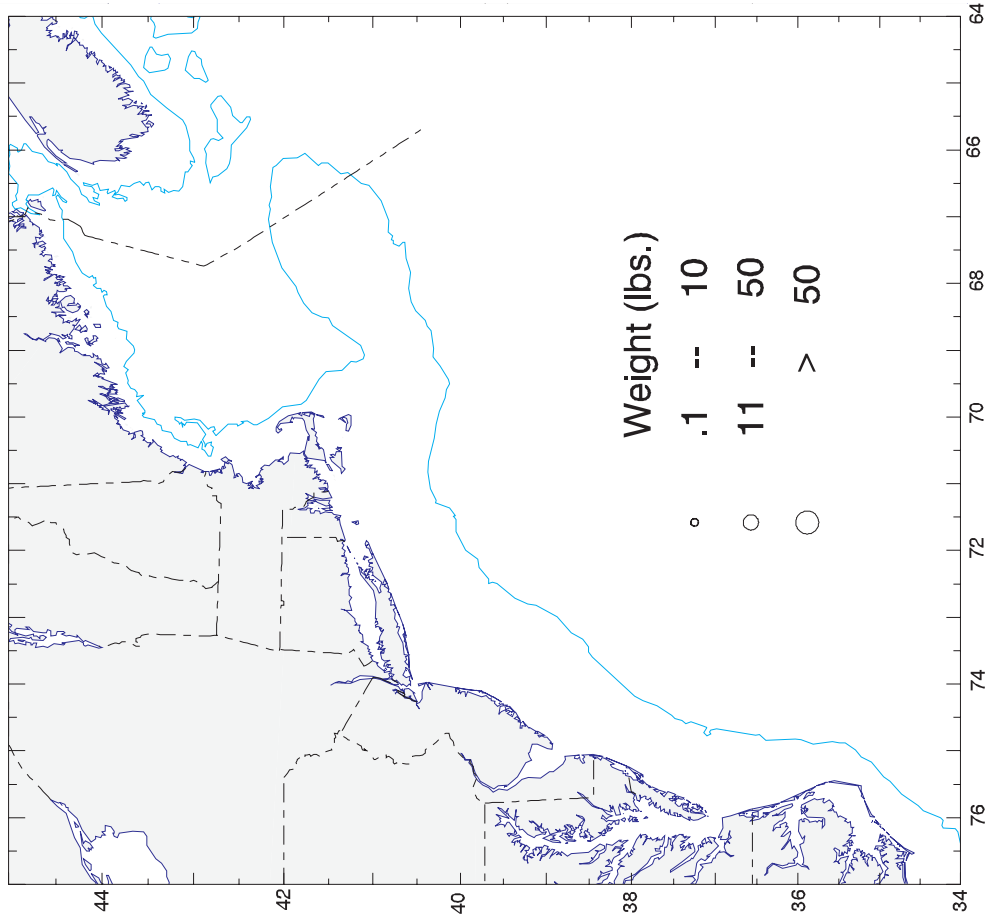
**ATLANTIC COD**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



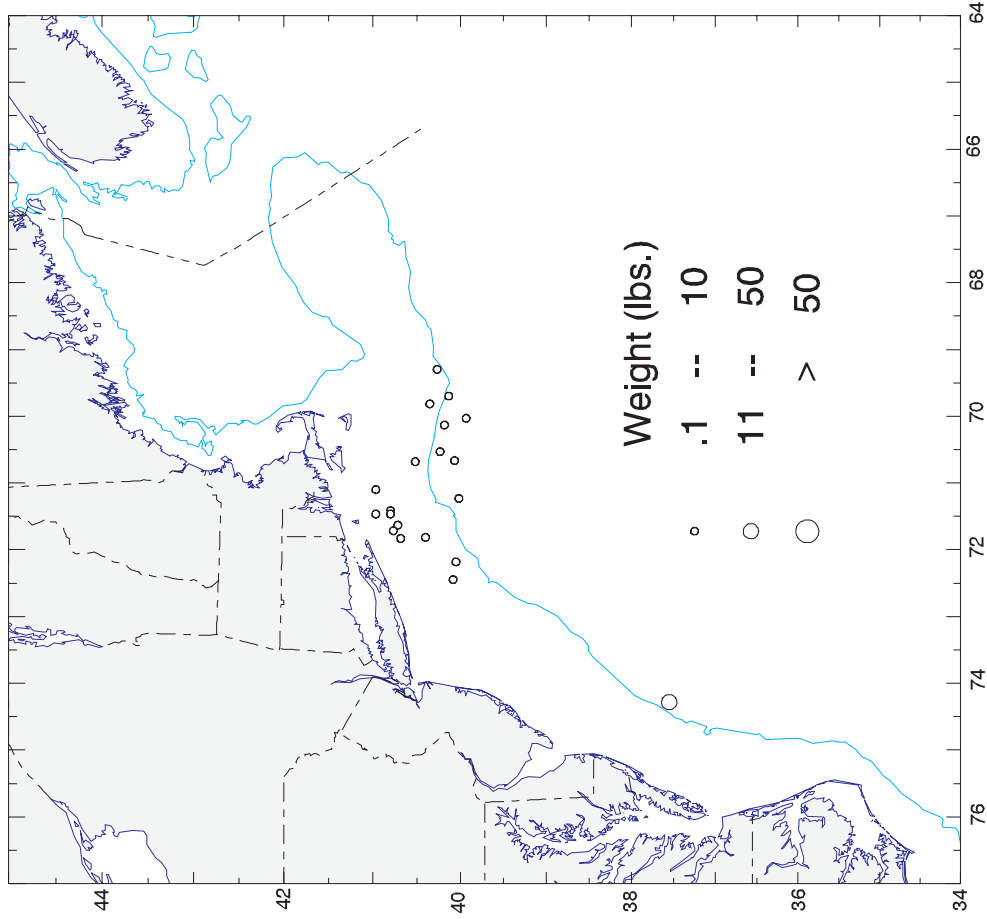
**HADDOCK**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



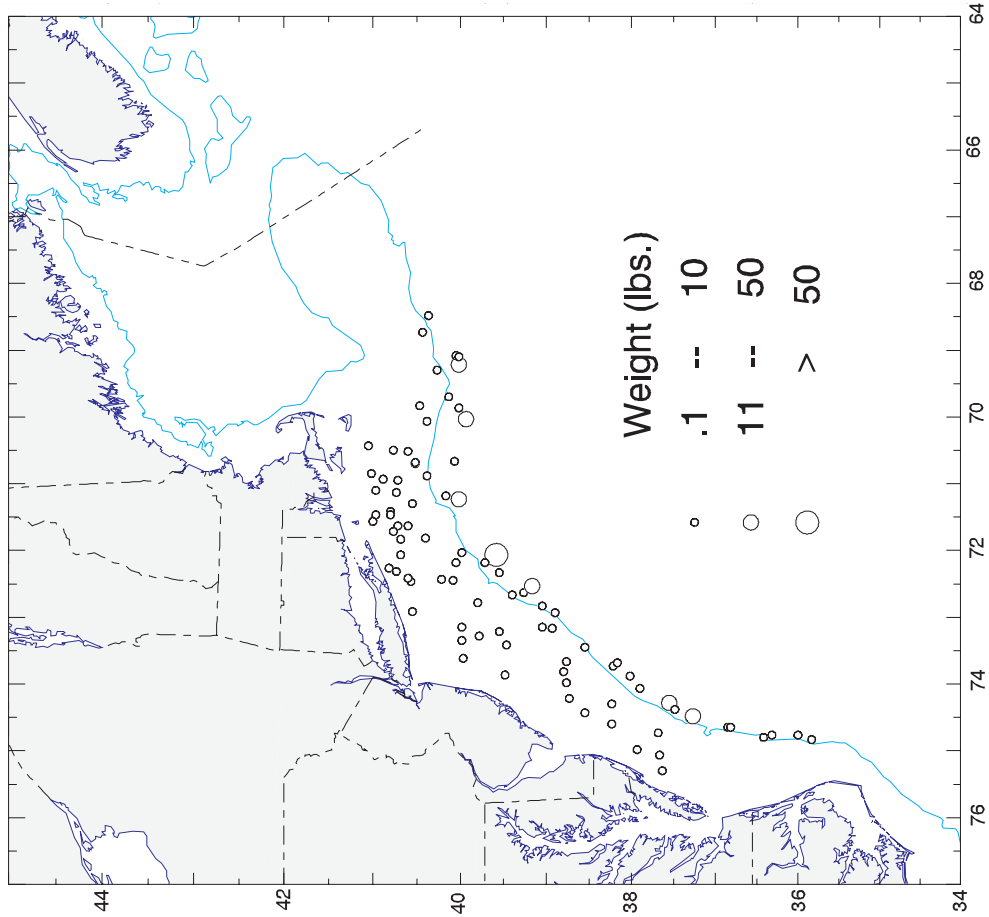
**POLLOCK**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



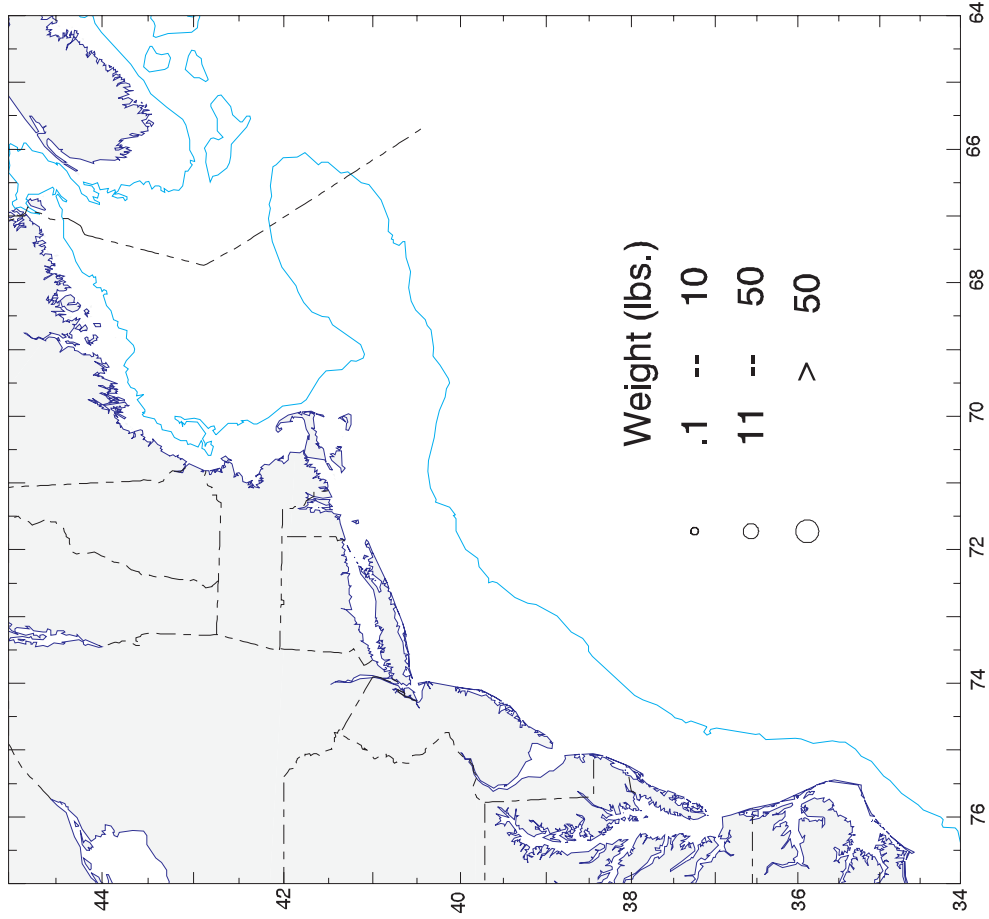
**WHITE HAKE**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



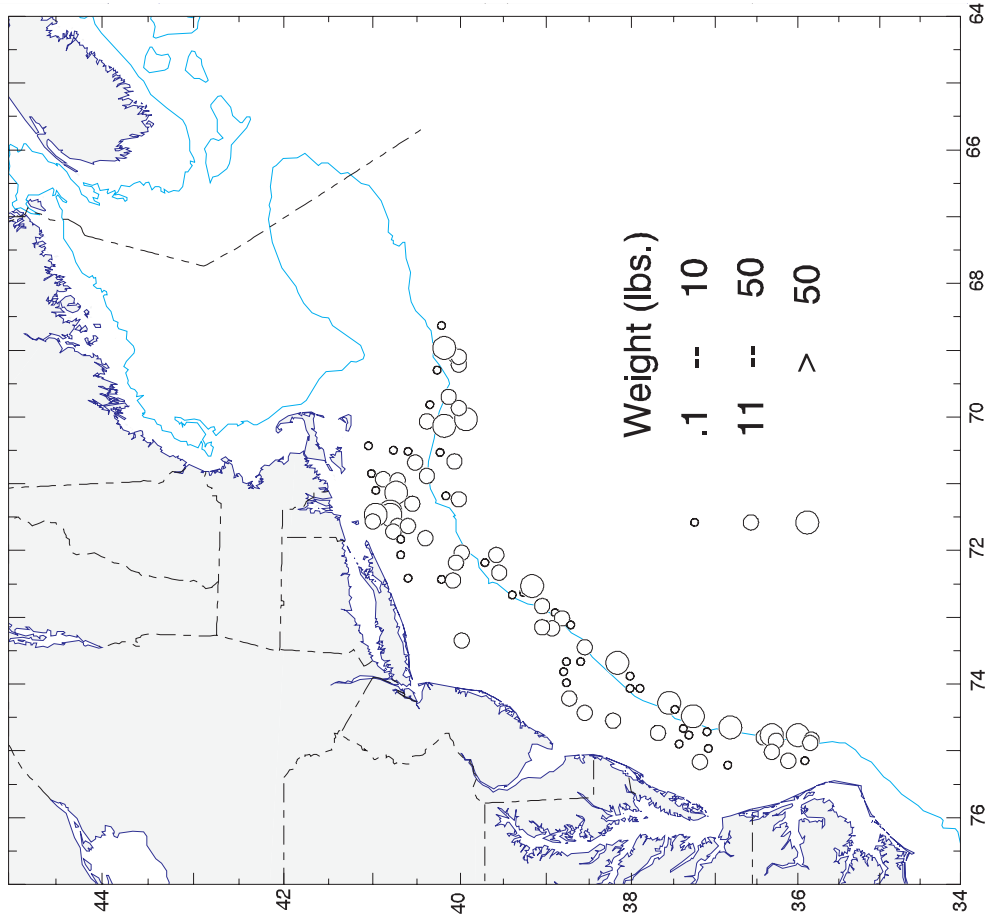
**SILVER HAKE**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



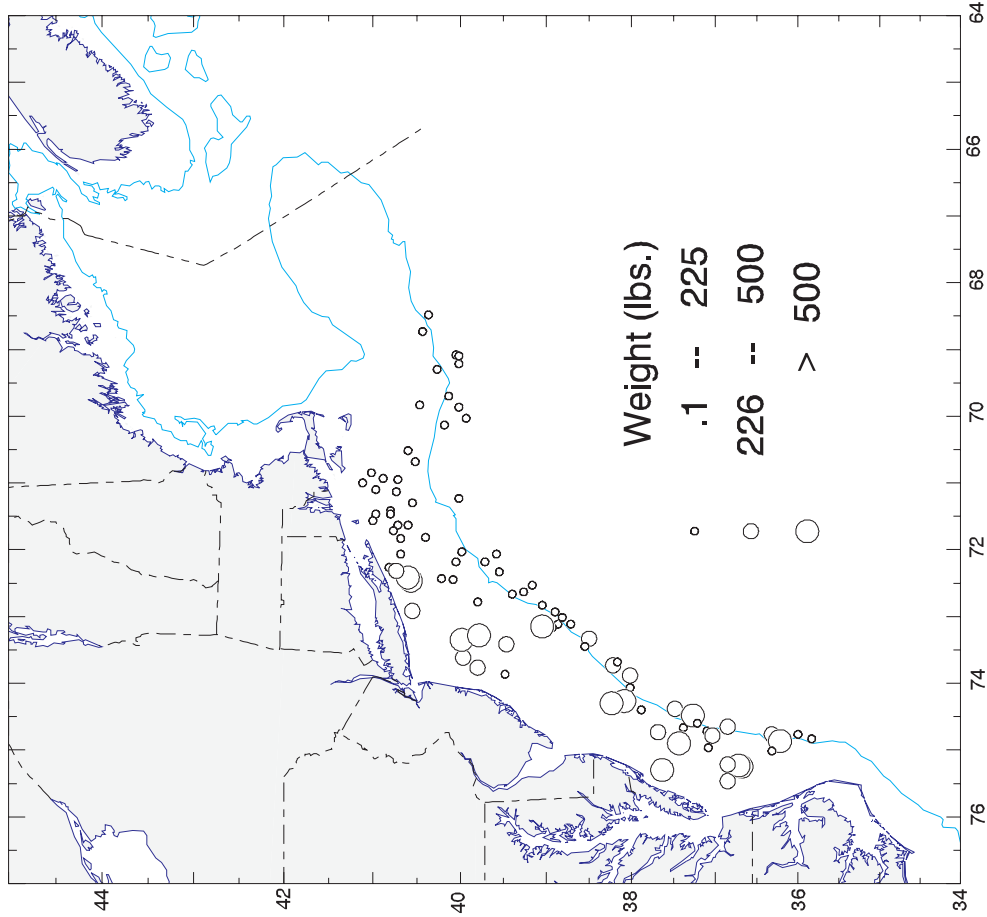
**ACADIAN REDFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



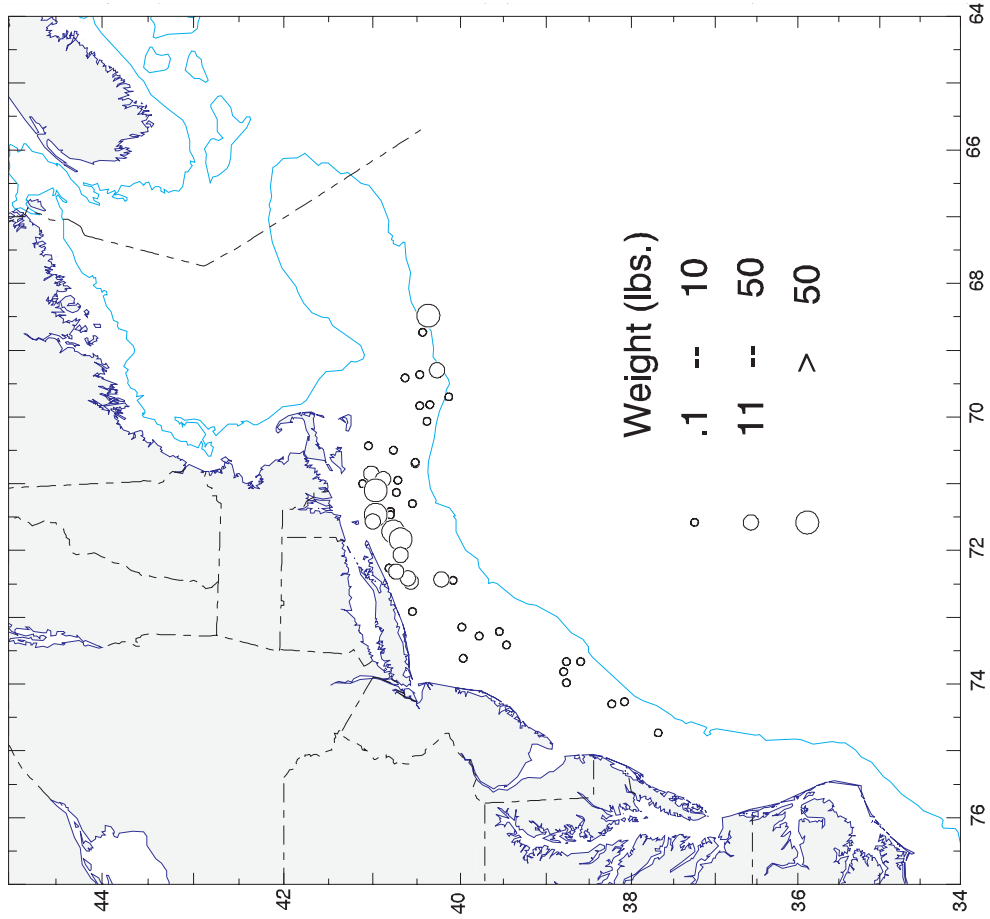
**GOOSEFISH**  
 NOAA Fisheries Service  
 Bottom Trawl Survey  
 FEB 7 - MAR 2, 2006



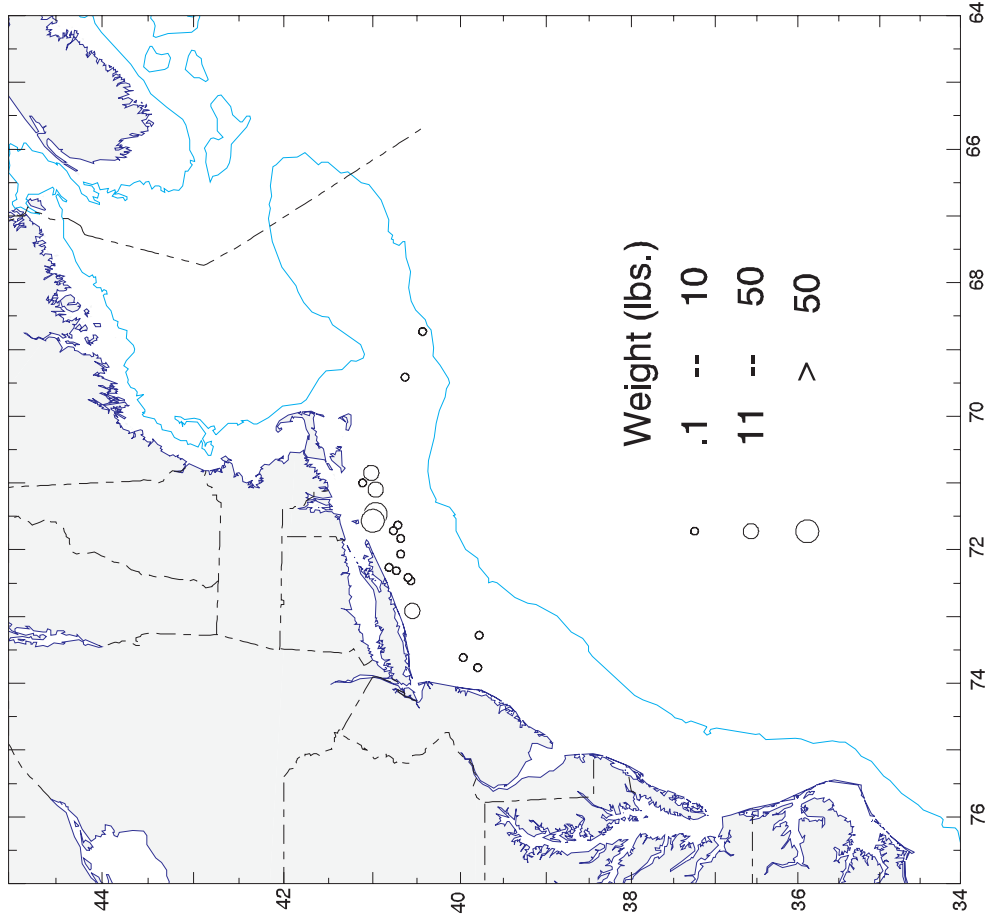
**SPINY DOGFISH**  
 NOAA Fisheries Service  
 Bottom Trawl Survey  
 FEB 7 - MAR 2, 2006



**YELLOWTAIL FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006

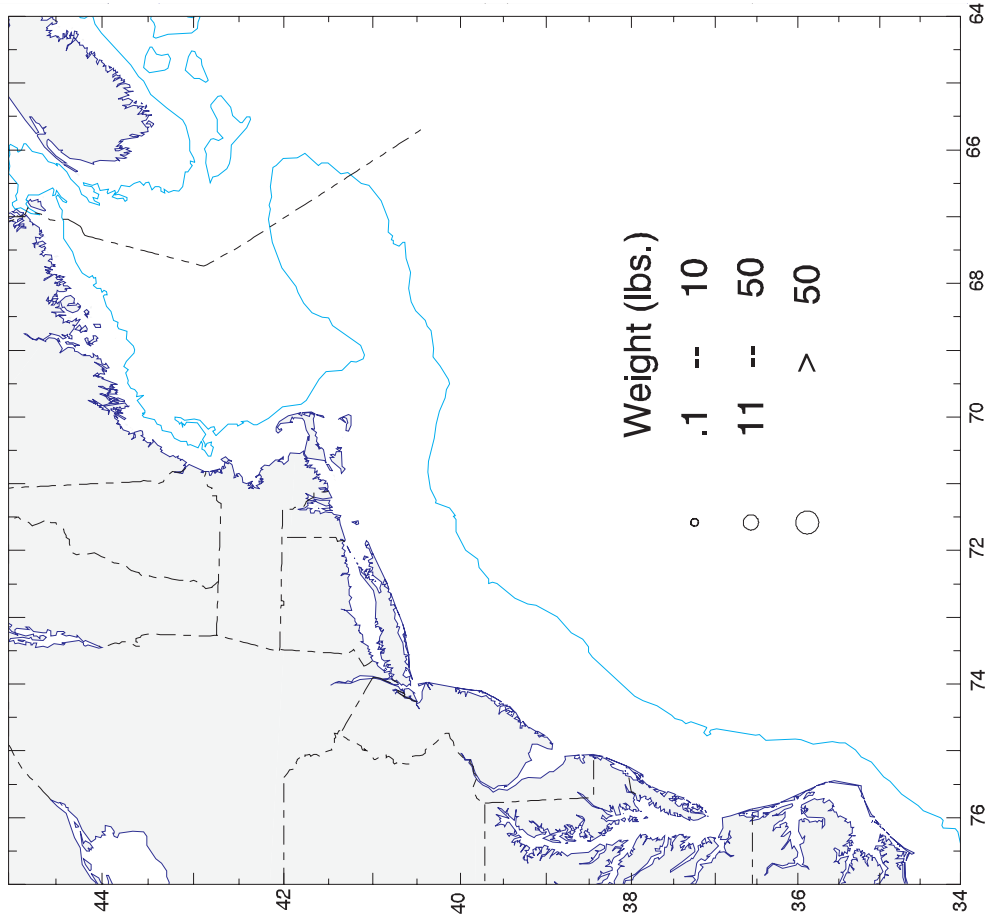


**WINTER FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006

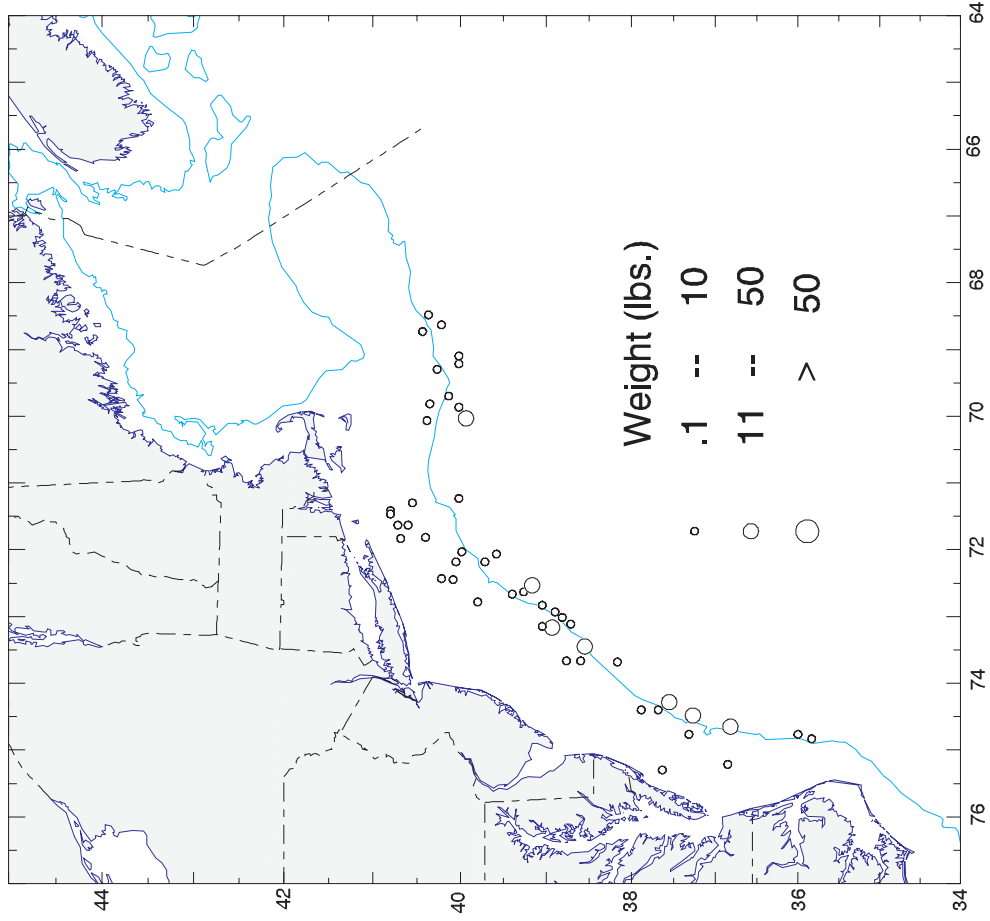




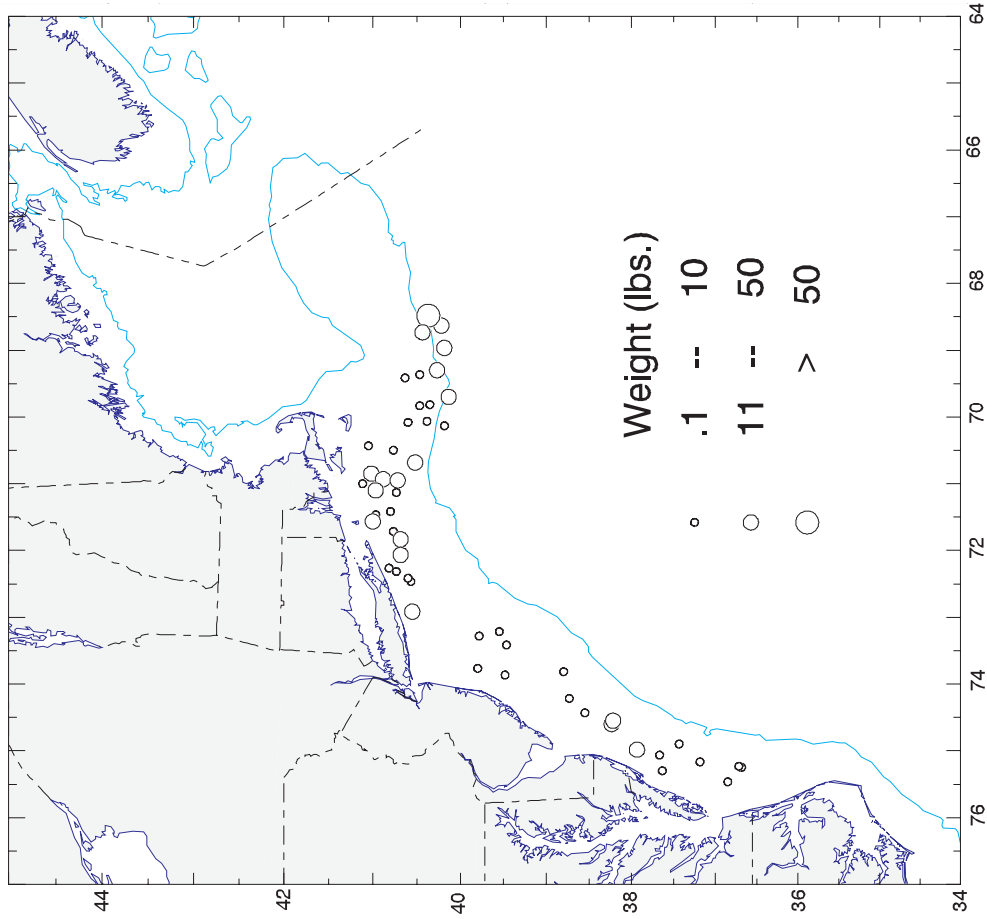
**AMERICAN PLAICE**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



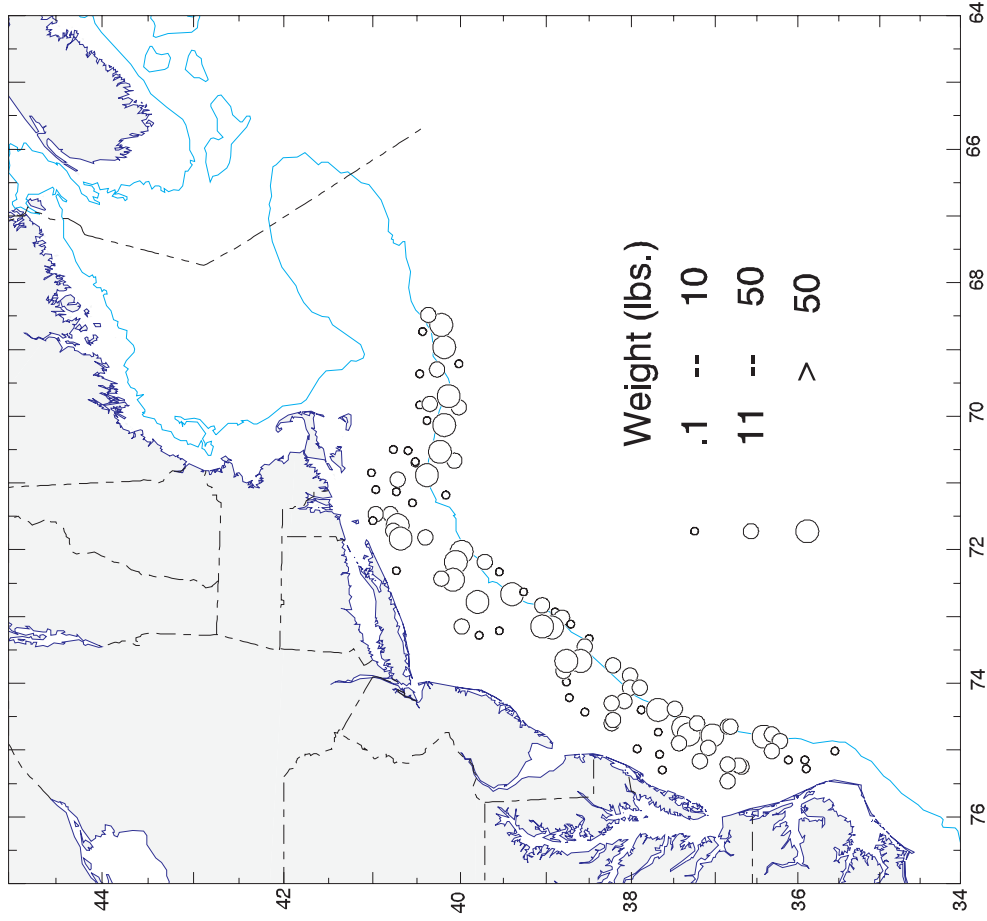
**WITCH FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



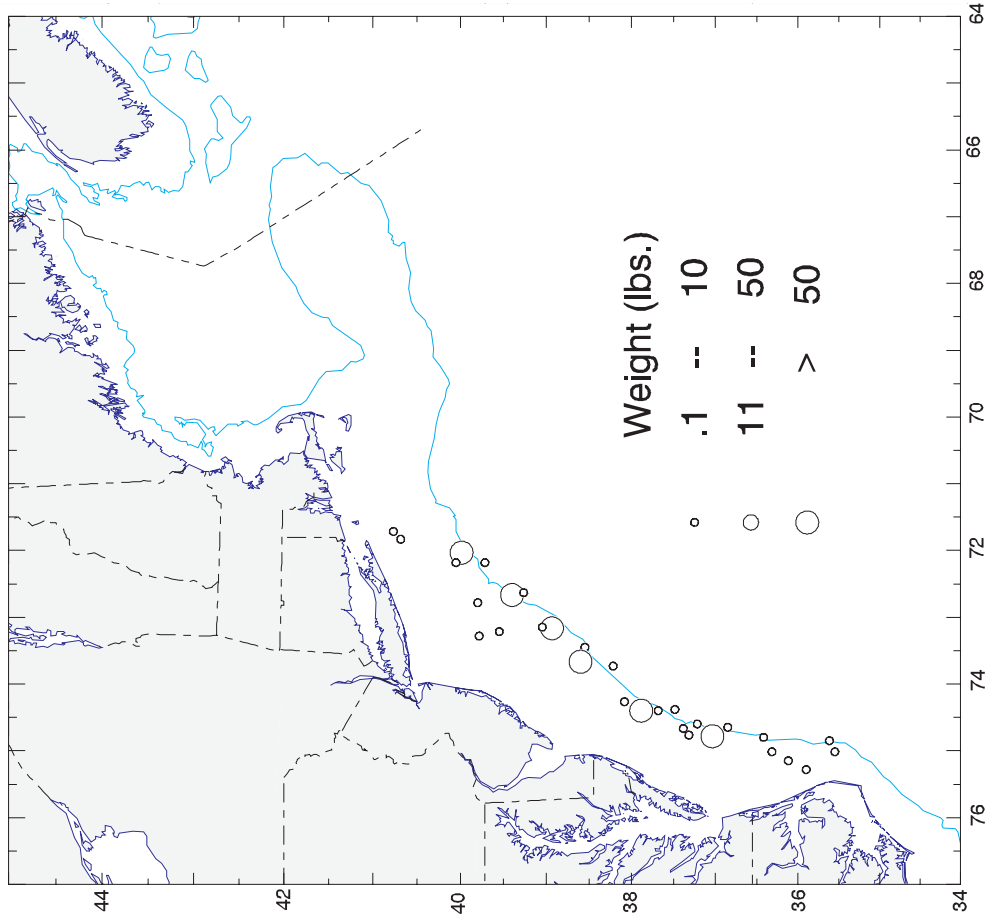
**WINDOWPANE FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



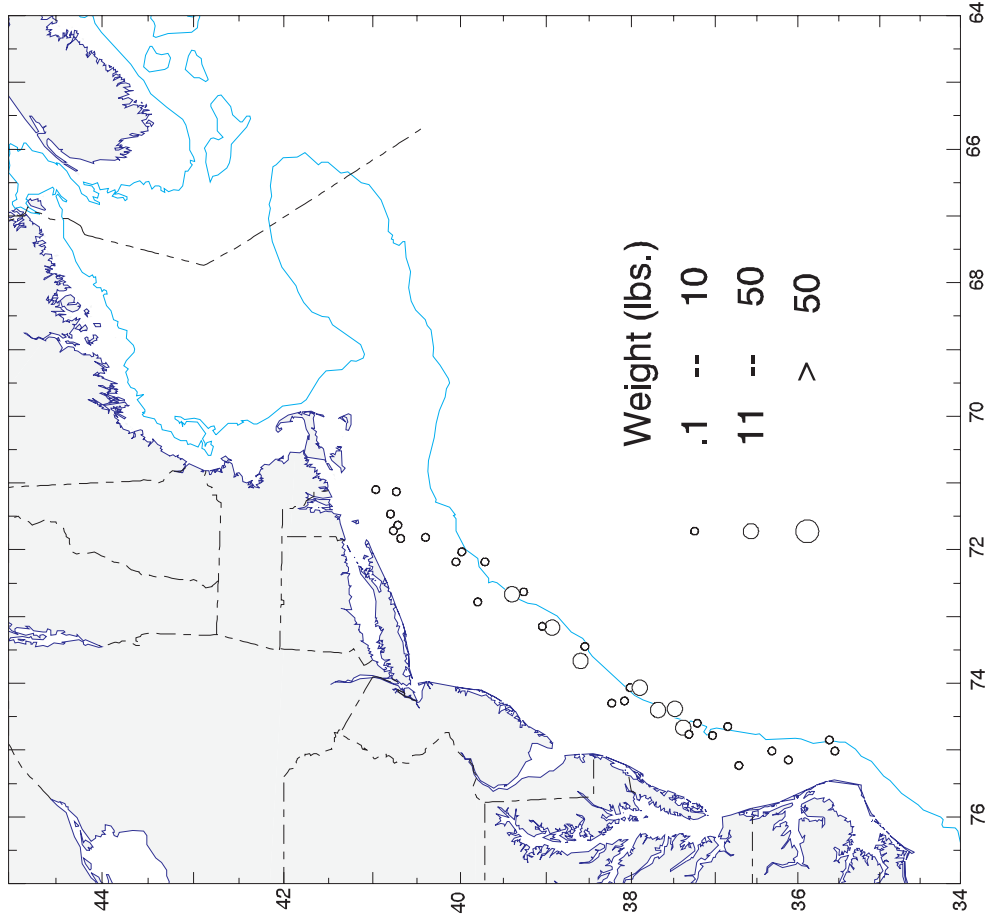
**SUMMER FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



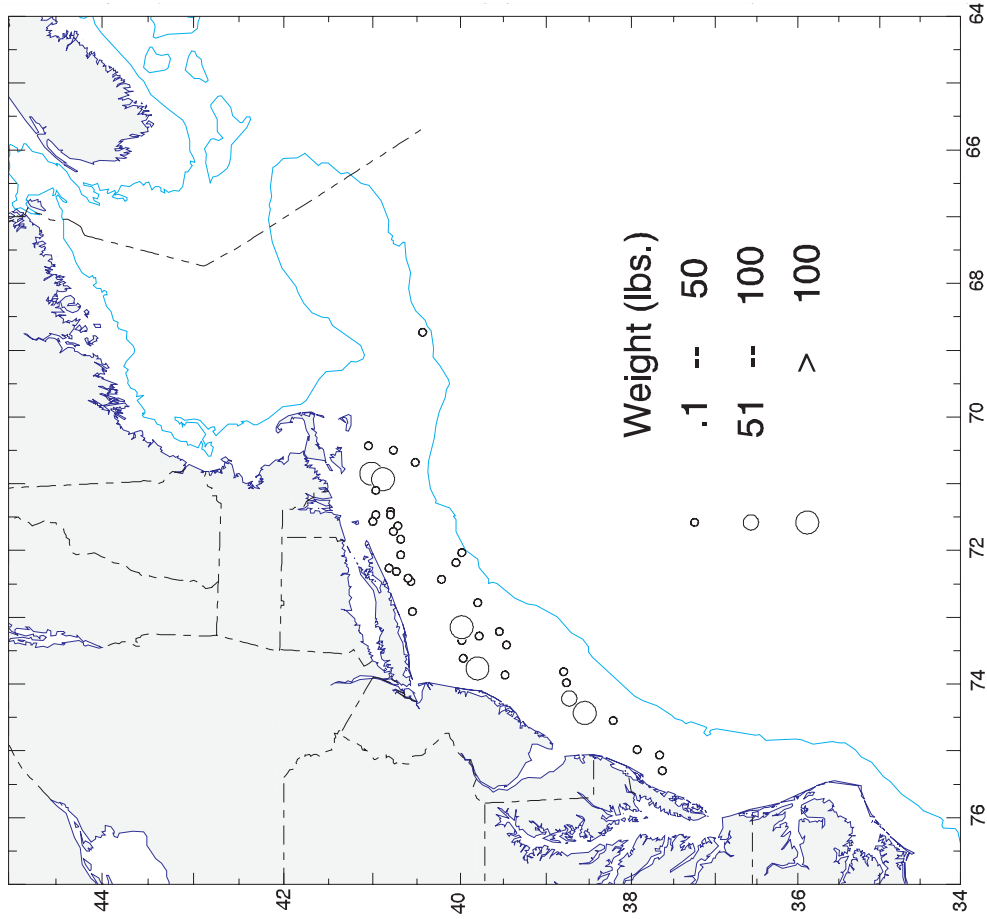
**SCUP**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



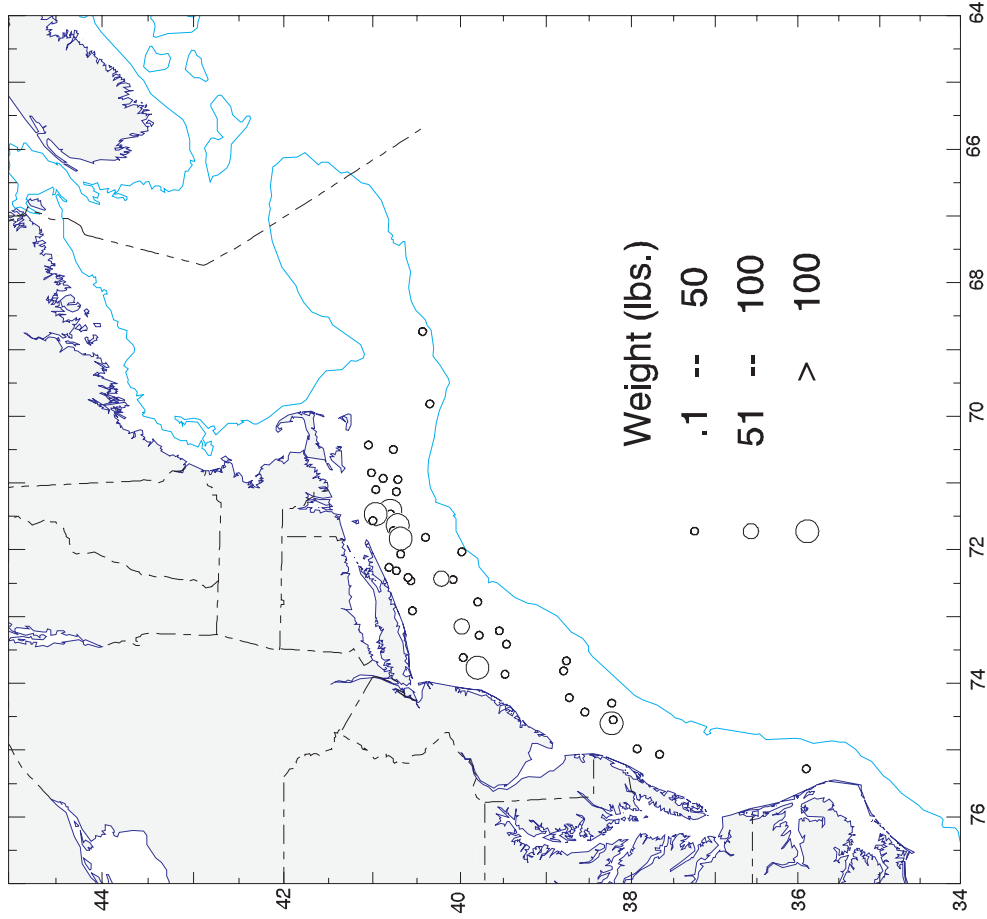
**BLACK SEA BASS**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



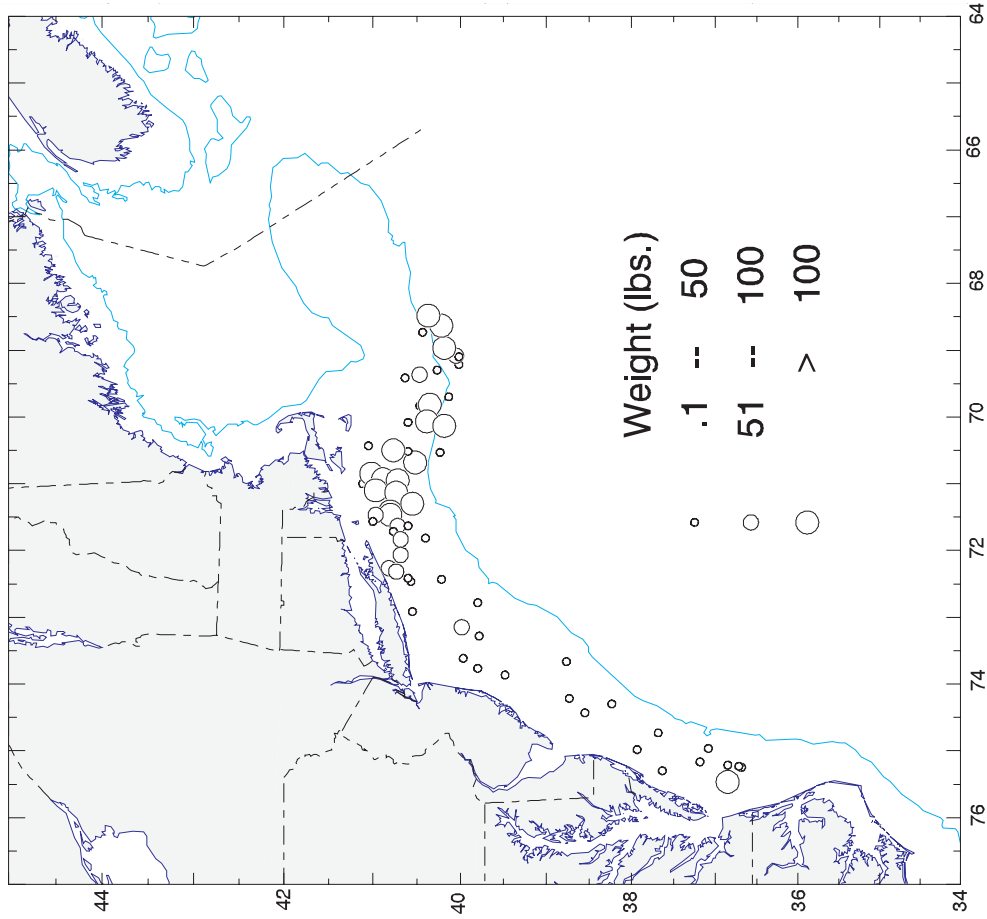
ATLANTIC HERRING  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



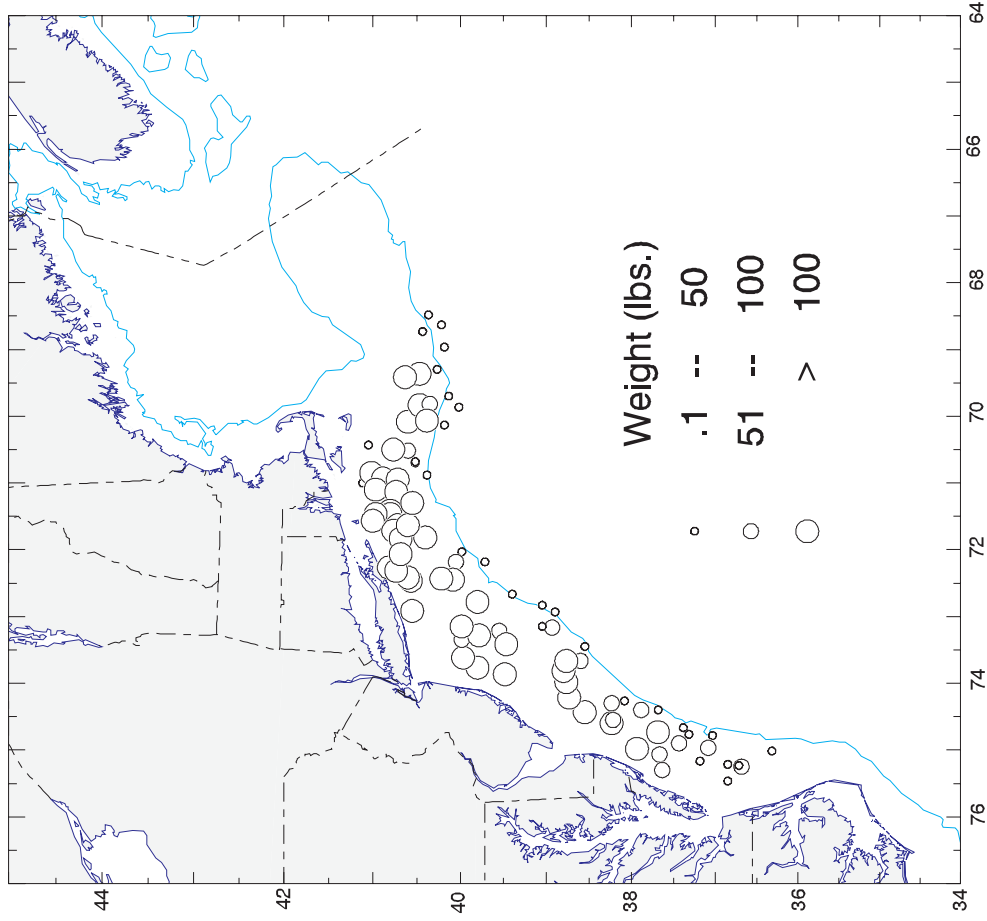
ATLANTIC MACKEREL  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



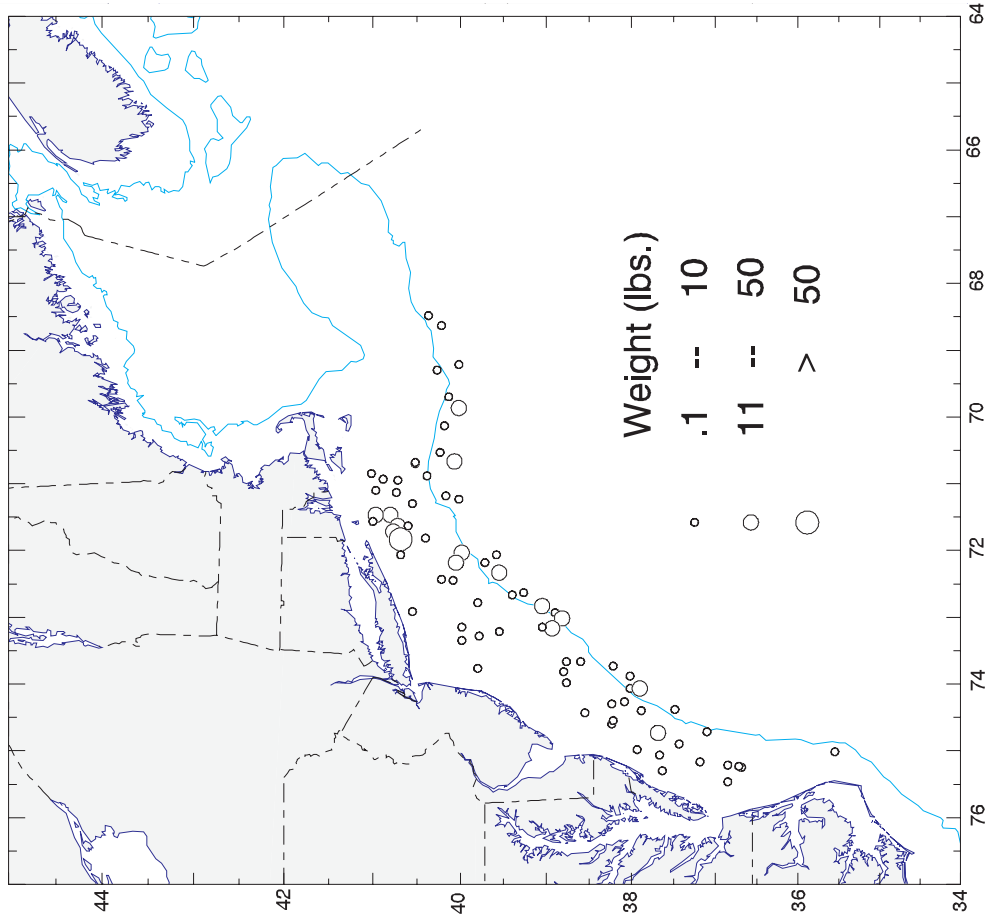
**WINTER SKATE**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



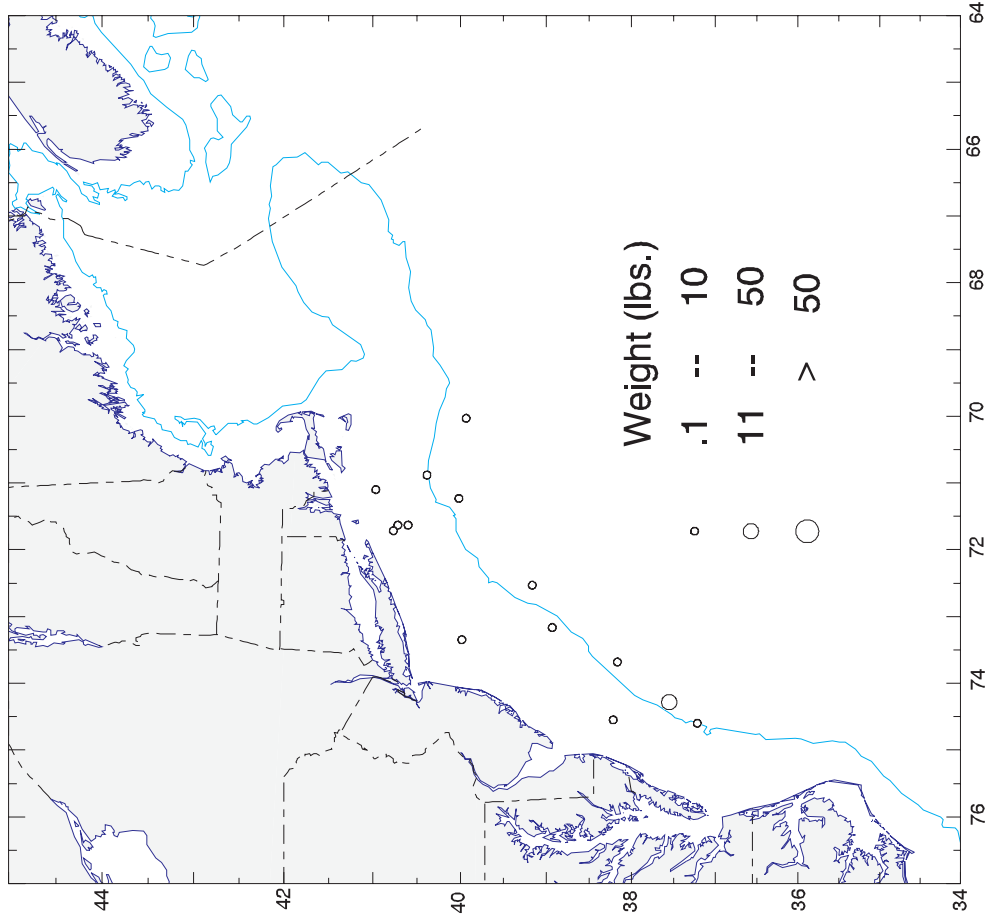
**LITTLE SKATE**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



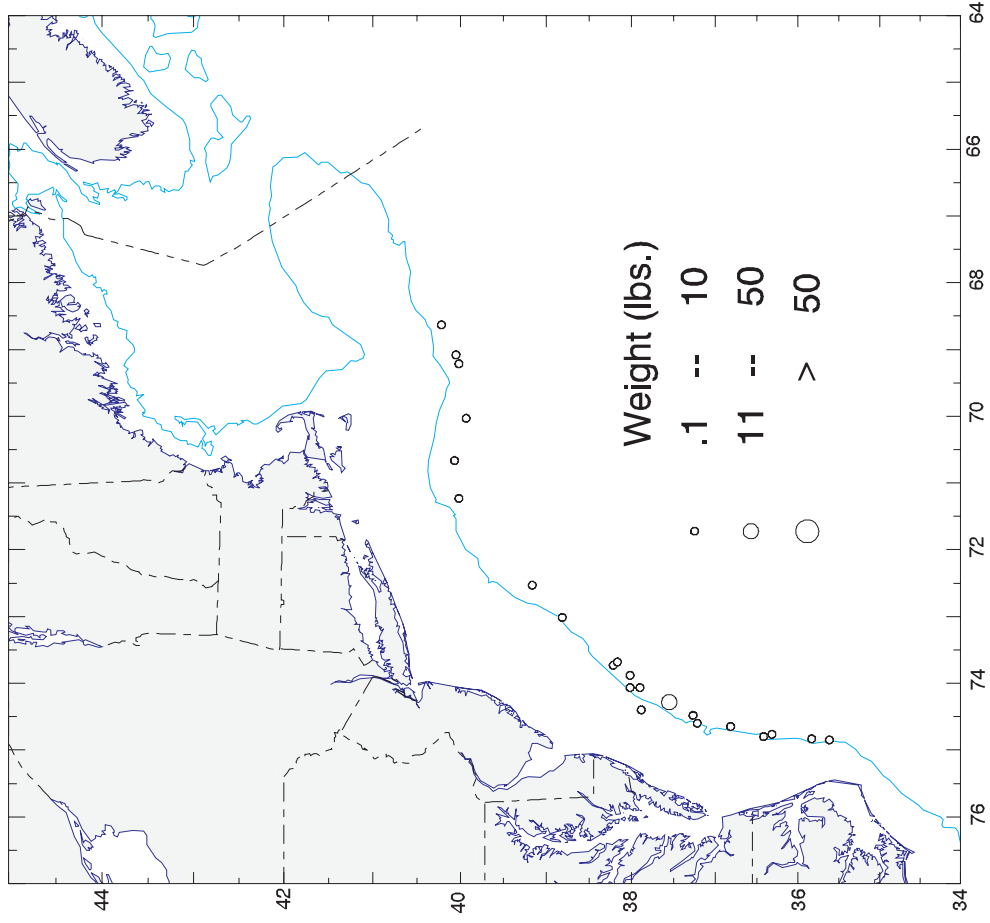
**BUTTERFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



**AMERICAN LOBSTER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



**ILLEX**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006



**LOLIGO**  
NOAA Fisheries Service  
Bottom Trawl Survey  
FEB 7 - MAR 2, 2006

