Resource Survey Report

Bottom Trawl Survey

Cape Hatteras – SW Georges Bank

February 6 – March 2, 2007

R/V Albatross IV

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

A large tow of Spiny dogfish is brought on board, visiting Japanese scientist, Dr. Keiichi Uchida, holds an American lobster, and a Summer flounder brought up in a tow.

RESOURCE SURVEY REPORT
Catch Summary

NOAA Fisheries Service
Northeast Fisheries Science Center

Winter Bottom Trawl Survey
Cape Hatteras - SW Georges Bank
February 6 – March 2, 2007

This report consists of field notes, station and catch summaries and a series of geographical plots of commercially and recreationally important species caught during the Northeast Fisheries Science Center's 2007 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 Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report in PDF format go the Ecosystems Surveys Branch website at: **http://www.nefsc.noaa.gov/esb** and choose:

- Resource Survey Reports
  - Available RSR
    - Select season and year of interest

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.

Stormy Seas
During leg I of the survey, catches were dominated by spiny dogfish and skates. Despite some very rough weather conditions, 71 stations were successfully completed.

Unidentified Shark
Our most unusual catch came aboard at station 36 where we pulled up a shark of the genus *Centrophorus*. This shark is a deep water relative of the spiny dogfish. It was a 61 inch female and weighed in at 71 pounds. The shark was brought to the lab to confirm the species identification and will likely be used for future research at a museum.

Falling Behind
Four days after the start of leg II, a similar storm that embattled the R/V Albatross IV on leg I came up the coast. Although we ceased operations for two days we were still able to complete 68 stations. This loss of time put us significantly behind and in order to maximize survey coverage, the number of tows per stratum was reduced.

Unusually Large Catches
At the two stations (126 and 127) around Veatch Canyon, we saw 30 different species of fish. The catches were predominantly made up of 35 barndoor skates weighing a total of 430 lbs (length range 29 to 51 inches), 115 goosefish weighing 730 lbs (length range 17 to 33 inches) and 679 witch flounder weighing 200 lbs (length range 9 to 17 inches).

Peter Chase
Chief Scientist
Survey Part I
508-495-2348
Peter.Chase@noaa.gov

Larry Brady
Chief Scientist
Survey Part II
508-495-2145
Larry.Brady@noaa.gov

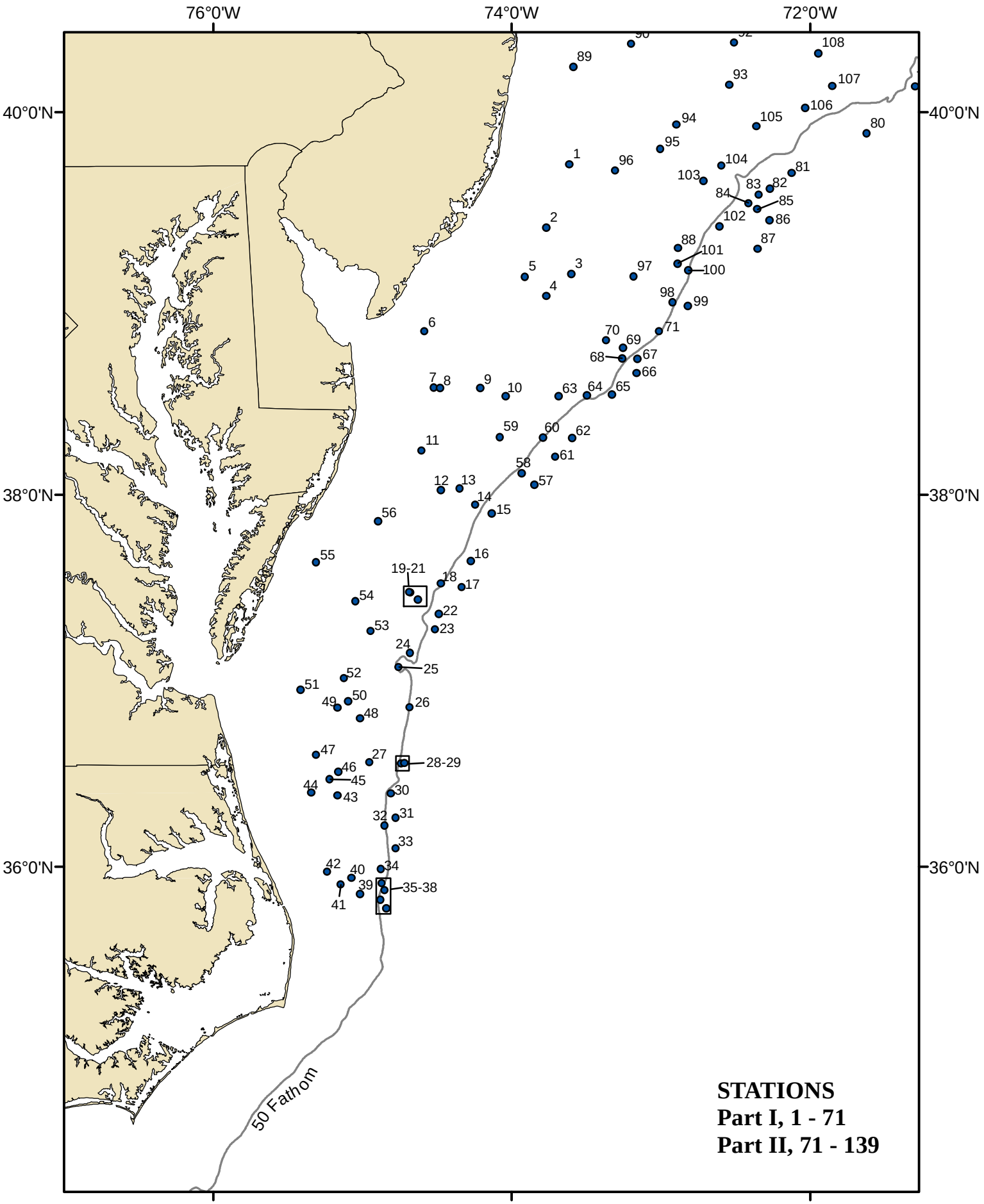


Figure 2. Trawl hauls made from R/V ALBATROSS IV (07 - 02), during NOAA Fisheries Service, Northeast Fisheries Science Center winter bottom trawl survey, February 6 - March 2, 2007

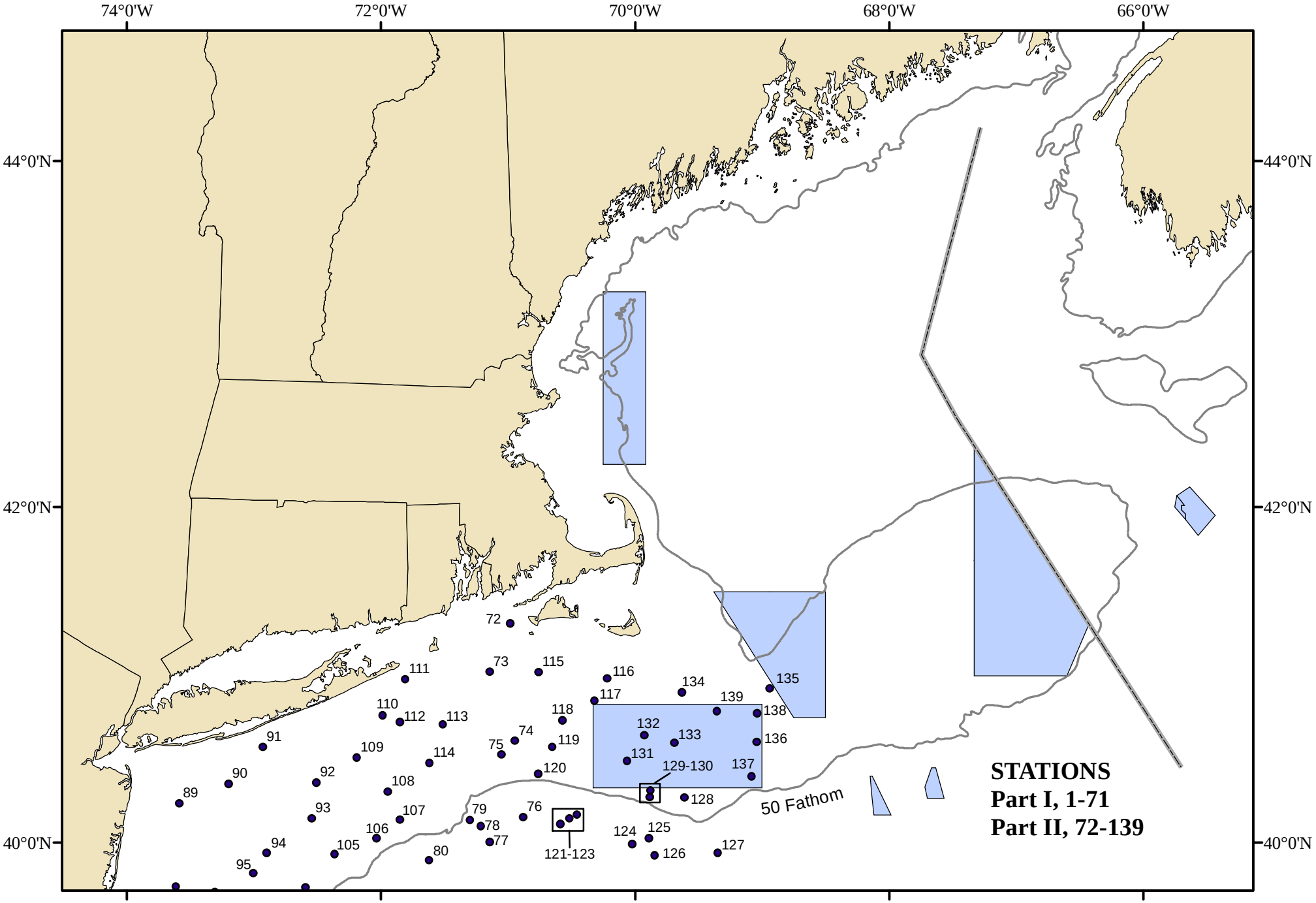


Figure 2. Trawl hauls made from R/V ALBATROSS IV (07 - 02), during NOAA Fisheries Service, Northeast Fisheries Science Center winter bottom trawl survey, February 6 - March 2, 2007.

NOAA Fisheries Service WINTER BOTTOM TRAWL SURVEY
2007 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0001	Feb-07	0808	3943.9	7336.8	X26717.9	Y43254.7	176	20.0	40.3
0002	Feb-07	1100	3924.1	7346.0	X26747.0	Y43055.3	127	19.7	44.1
0003	Feb-07	1327	3909.6	7336.0	X26659.8	Y42908.1	185	24.1	45.0
0004	Feb-07	1602	3902.7	7346.1	X26714.4	Y42835.0	335	23.0	46.9
0005	Feb-07	1754	3908.8	7354.6	X26777.4	Y42895.9	233	24.1	46.2
0006	Feb-07	2221	3851.6	7435.1	X26991.6	Y42696.6	140	14.2	44.2
0007	Feb-08	0050	3833.9	7431.3	X26935.2	Y42504.8	084	18.6	44.6
0008	Feb-08	0224	3833.7	7428.8	X26920.8	Y42504.8	095	20.2	45.5
0009	Feb-08	0420	3833.8	7412.6	X26829.6	Y42517.7	099	30.1	49.3
0010	Feb-08	0626	3831.3	7402.5	X26767.7	Y42498.1	142	27.9	51.8
0011	Feb-08	1824	3813.9	7436.2	X26926.5	Y42281.2	325	19.1	48.7
0012	Feb-08	2102	3801.4	7428.4	X26865.8	Y42154.1	095	26.2	50.5
0013	Feb-08	2234	3802.0	7420.9	X26827.7	Y42169.8	194	29.8	52.0
0014	Feb-09	0009	3756.7	7414.6	X26788.2	Y42120.8	115	43.2	53.8
0015	Feb-09	0141	3754.0	7408.0	X26750.4	Y42100.9	221	62.3	55.4
0016	Feb-09	0411	3738.8	7416.4	X26775.2	Y41930.3	221	68.1	52.7
0017	Feb-09	0603	3730.4	7420.0	X26783.3	Y41836.5	212	149.8	50.2
0018	Feb-09	0756	3731.6	7428.4	X26825.5	Y41835.9	247	39.4	54.1
0019	Feb-09	1019	3728.7	7440.7	X26880.8	Y41785.0	194	30.3	52.2
0020	Feb-09	1154	3728.8	7441.2	X26883.4	Y41785.2	161	28.7	
0021	Feb-09	1312	3726.5	7437.8	X26863.6	Y41765.9	141	34.7	55.6
0022	Feb-09	1522	3721.8	7429.2	X26817.5	Y41730.8	210	76.3	50.9
0023	Feb-09	1720	3716.8	7430.8	X26819.1	Y41675.9	206	79.0	50.5
0024	Feb-09	1923	3709.3	7440.8	X26855.9	Y41578.1	243	48.9	50.9
0025	Feb-09	2134	3704.7	7445.5	X26871.3	Y41519.6	118	53.3	52.0
0026	Feb-10	0008	3651.8	7440.9	X26835.9	Y41393.8	213	49.8	56.8
0027	Feb-10	0321	3633.9	7457.2	X26885.1	Y41171.0	080	20.5	53.4
0028	Feb-10	0511	3633.5	7444.5	X26831.4	Y41198.0	026	59.6	55.6
0029	Feb-10	0646	3633.7	7443.2	X26825.8	Y41202.9	176	170.6	49.1
0030	Feb-10	0839	3623.8	7448.6	X26838.4	Y41089.1	198	46.5	55.2
0031	Feb-10	1045	3615.8	7446.6	X26822.1	Y41014.2	192	135.6	48.6
0032	Feb-10	1243	3613.3	7451.1	X26837.6	Y40976.8	174	45.4	59.5
0033	Feb-10	1427	3605.9	7446.6	X26812.5	Y40916.6	179	159.1	49.5
0034	Feb-10	1606	3559.2	7452.5	X26829.2	Y40834.0	194	48.1	58.6
0035	Feb-10	1719	3554.5	7452.3	X26824.1	Y40789.2	196	48.1	59.4
0036	Feb-10	1917	3552.2	7451.1	X26817.2	Y40770.1	172	127.1	53.2
0037	Feb-10	2057	3549.0	7452.7	X26820.6	Y40735.4	186	58.2	51.8
0038	Feb-10	2248	3546.2	7450.4	X26809.3	Y40716.0	147		53.1
0039	Feb-11	0001	3551.0	7501.0	X26854.1	Y40728.6	323	24.3	64.9
0040	Feb-11	0131	3556.2	7504.5	X26872.8	Y40768.3	225	18.3	63.9
0041	Feb-11	0302	3554.1	7508.7	X26886.6	Y40734.7	299	18.3	63.0
0042	Feb-11	0430	3558.2	7514.2	X26912.3	Y40759.1	348	19.1	61.3
0043	Feb-11	0758	3623.2	7510.0	X26924.5	Y41027.1	249	16.7	54.7
0044	Feb-11	0945	3624.0	7520.5	X26968.1	Y41009.1	054	17.0	50.5
0045	Feb-11	1116	3628.4	7513.2	X26944.0	Y41073.6	064	17.8	50.0
0046	Feb-11	1240	3630.8	7509.8	X26933.2	Y41108.1	302	18.3	48.0
0047	Feb-11	1419	3636.3	7518.6	X26976.4	Y41144.6	031	19.4	46.6
0048	Feb-11	1647	3648.1	7501.0	X26918.4	Y41311.6	350	19.1	47.8

NOAA Fisheries Service WINTER BOTTOM TRAWL SURVEY
2007 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0049	Feb-11	1809	3653.7	7505.8	X26946.1	Y41360.6	310	19.4	
0050	Feb-11	1929	3651.5	7510.0	X26961.5	Y41328.1	319	15.6	47.8
0051	Feb-11	2139	3657.4	7524.9	X27033.5	Y41361.2	088	15.9	46.0
0052	Feb-11	2343	3701.2	7507.5	X26964.1	Y41438.1	031	21.1	47.8
0053	Feb-12	0201	3716.2	7456.7	X26937.7	Y41622.3	326	20.8	48.6
0054	Feb-12	0346	3725.9	7502.7	X26979.8	Y41717.6	328	17.5	46.9
0055	Feb-12	0610	3738.4	7518.6	X27074.7	Y41832.4	040	12.3	42.1
0056	Feb-12	0906	3751.5	7453.7	X26978.4	Y42014.4	111	17.8	44.4
0057	Feb-12	1622	3803.1	7350.9	X26670.6	Y42215.5	023	153.4	48.2
0058	Feb-12	1810	3806.8	7356.0	X26701.8	Y42248.1	022	62.3	54.3
0059	Feb-12	2024	3818.2	7404.6	X26762.4	Y42359.2	051	35.0	52.5
0060	Feb-12	2232	3818.1	7347.4	X26666.9	Y42373.3	173	57.1	52.7
0061	Feb-13	0023	3812.0	7342.4	X26633.4	Y42315.8	038	72.2	53.8
0062	Feb-13	0248	3817.9	7335.6	X26601.3	Y42382.4	036	166.2	43.7
0063	Feb-13	0518	3831.2	7341.2	X26645.4	Y42513.1	081	36.6	52.9
0064	Feb-13	0656	3831.4	7329.7	X26579.4	Y42523.3	094	47.6	53.6
0065	Feb-13	0833	3831.7	7319.6	X26521.2	Y42532.7	022	63.7	52.9
0066	Feb-13	1121	3838.5	7309.8	X26468.4	Y42605.4	241	106.4	51.1
0067	Feb-13	1318	3843.0	7309.4	X26468.7	Y42650.1	029	68.1	52.7
0068	Feb-13	1518	3843.1	7315.6	X26505.9	Y42648.1	051	46.5	53.1
0069	Feb-13	1656	3846.5	7315.1	X26505.5	Y42681.7	261	42.9	
0070	Feb-13	1837	3848.8	7321.9	X26548.5	Y42701.5	067	41.6	51.1
0071	Feb-13	2146	3851.6	7300.6	X26420.3	Y42737.9	026	53.9	52.2
0072	Feb-20	1658	4118.7	7058.8	X25553.5	Y43895.3	205	18.0	36.0
0073	Feb-20	1941	4101.4	7108.5	X25611.8	Y43786.3	178	26.2	41.4
0074	Feb-21	0018	4036.7	7056.7	X25520.4	Y43592.3	220	38.8	43.5
0075	Feb-21	0201	4031.6	7103.0	X25574.9	Y43560.6	169	41.8	44.8
0076	Feb-21	0532	4009.0	7052.7	X25539.1	Y43381.1	159	74.6	52.5
0077	Feb-21	0819	4000.0	7108.6	X25660.2	Y43321.2	267	162.1	44.8
0078	Feb-21	1041	4005.9	7112.7	X25679.6	Y43370.3	261	82.0	52.7
0079	Feb-21	1222	4008.0	7117.8	X25712.4	Y43390.4	207	55.0	52.2
0080	Feb-21	1619	3953.4	7137.2	X25863.4	Y43284.5	241	128.5	52.0
0081	Feb-21	1940	3941.1	7207.5	X26081.0	Y43193.6	206	70.5	51.1
0082	Feb-21	2129	3936.3	7216.2	X26141.7	Y43154.0	215	63.4	50.2
0083	Feb-21	2325	3934.3	7220.5	X26171.9	Y43137.8	061	61.2	51.3
0084	Feb-22	0157	3931.6	7224.8	X26200.8	Y43114.9	151	194.4	48.2
0085	Feb-22	0341	3929.9	7221.2	X26176.4	Y43097.8	122	152.8	
0086	Feb-22	0448	3926.5	7216.4	X26143.9	Y43066.4	155	117.6	
0087	Feb-22	0709	3917.5	7221.2	X26176.4	Y42986.2	229	112.6	50.2
0088	Feb-22	1018	3917.7	7253.2	X26387.1	Y42989.9	339	39.9	49.5
0089	Feb-24	0933	4014.0	7335.2	X26766.5	Y43553.7	151	18.3	38.7
0090	Feb-24	1306	4021.1	7311.8	X26599.2	Y43600.6	035	19.4	39.7
0091	Feb-24	1528	4034.4	7255.7	X26493.5	Y43704.3	116	17.0	39.4
0092	Feb-24	1822	4021.5	7230.4	X26269.3	Y43563.5	158	27.9	41.9
0093	Feb-24	2026	4008.5	7232.5	X26273.7	Y43450.7	269	31.4	44.2
0094	Feb-24	2318	3956.1	7253.8	X26423.1	Y43352.5	305	29.0	44.2
0095	Feb-25	0119	3948.6	7300.2	X26461.8	Y43285.3	327	41.3	44.8
0096	Feb-25	0422	3941.9	7318.3	X26583.9	Y43228.4	174	22.4	42.1

NOAA Fisheries Service WINTER BOTTOM TRAWL SURVEY
2007 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0097	Feb-25	0801	3908.9	7310.9	X26497.0	Y42903.8	130	35.8	45.0
0098	Feb-25	1012	3900.8	7255.2	X26391.0	Y42828.1	215	48.9	51.3
0099	Feb-25	1308	3859.6	7249.2	X26352.7	Y42817.3	013	96.5	51.6
0100	Feb-25	1517	3910.8	7249.0	X26356.0	Y42924.3	019	51.4	49.1
0101	Feb-25	1656	3912.9	7253.3	X26385.2	Y42943.6	360	43.5	49.5
0102	Feb-25	1934	3924.5	7236.4	X26278.4	Y43051.9	049	58.8	49.3
0103	Feb-25	2200	3938.7	7243.0	X26329.6	Y43185.1	042	40.2	47.1
0104	Feb-25	2328	3943.5	7235.6	X26280.3	Y43226.3	047	40.5	48.0
0105	Feb-26	0148	3955.7	7221.6	X26183.8	Y43329.1	022	39.9	46.2
0106	Feb-26	0424	4001.4	7202.0	X26039.3	Y43366.6	088	44.3	46.0
0107	Feb-26	0651	4008.1	7151.0	X25956.2	Y43415.7	023	42.9	46.8
0108	Feb-26	0847	4018.2	7156.7	X25999.6	Y43504.5	344	34.4	45.3
0109	Feb-26	1207	4030.6	7211.3	X26123.2	Y43621.6	029	30.1	45.5
0110	Feb-26	1437	4045.8	7159.1	X26036.0	Y43732.4	014	23.8	42.4
0111	Feb-26	1655	4058.7	7148.5	X25960.4	Y43819.4	216	18.3	39.9
0112	Feb-26	1915	4043.4	7151.0	X25964.4	Y43703.1	357	29.8	43.3
0113	Feb-26	2140	4042.5	7130.7	X25792.9	Y43672.3	146	36.6	42.6
0114	Feb-27	0013	4028.7	7137.0	X25843.7	Y43571.2	080	41.6	43.9
0115	Feb-27	0548	4101.3	7045.5	X25410.4	Y43756.8	094	26.2	39.6
0116	Feb-27	0904	4059.0	7013.1	X25150.1	Y43703.3	214	17.2	36.0
0117	Feb-27	1042	4051.0	7019.0	X25213.5	Y43656.0	229	26.0	37.0
0118	Feb-27	1309	4044.0	7034.2	X25338.7	Y43622.8	222	31.4	40.1
0119	Feb-27	1449	4034.3	7038.9	X25392.7	Y43558.1	181	38.0	39.7
0120	Feb-27	1713	4024.7	7045.7	X25460.4	Y43493.5	083	46.8	38.7
0121	Feb-27	2011	4006.6	7035.2	X25436.8	Y43351.4	092	66.7	54.5
0122	Feb-27	2147	4008.6	7030.9	X25406.7	Y43363.1	351	65.6	54.0
0123	Feb-27	2316	4009.9	7027.3	X25383.1	Y43370.3	161	64.5	49.8
0124	Feb-28	0217	3959.4	7001.2	X25286.3	Y43279.3	088	87.8	53.6
0125	Feb-28	0355	4001.4	6953.3	W14189.9	Y43289.7	109	78.5	48.7
0126	Feb-28	0719	3955.2	6950.6	W14194.8	Y43245.0	086	172.8	46.4
0127	Feb-28	1112	3956.1	6920.9	W14045.7	Y43238.2	245	172.2	51.6
0128	Feb-28	1421	4016.1	6936.5	W14058.6	Y43381.6	290	42.1	41.7
0129	Feb-28	1615	4016.2	6953.0	W14142.4	Y43393.2	359	46.8	42.3
0130	Feb-28	1814	4018.8	6952.6	W14132.3	Y43410.6	317	45.1	42.1
0131	Feb-28	2047	4029.4	7003.7	X25199.4	Y43492.1	264	36.9	39.9
0132	Feb-28	2254	4038.6	6955.5	W14080.0	Y43548.4	085	30.1	38.7
0133	Mar-01	0035	4035.9	6941.4	W14015.5	Y43518.2	038	32.3	40.6
0134	Mar-01	0308	4054.1	6937.8	W13929.2	Y43634.6	097	21.9	39.7
0135	Mar-01	0750	4055.4	6856.3	W13711.3	Y43604.3	344	40.7	41.2
0136	Mar-01	1204	4036.2	6902.5	W13817.0	Y43490.2	214	37.2	40.8
0137	Mar-01	1351	4023.9	6904.8	W13873.9	Y43412.7	178	47.0	40.5
0138	Mar-01	1718	4046.6	6902.2	W13775.8	Y43555.0	010	41.6	41.4
0139	Mar-01	2040	4047.3	6921.2	W13868.9	Y43575.5	292	18.9	41.7

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY
ALBATROSS IV FEB 06 - MAR 02, 2007
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 FFLOUNDER	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	0	0	0	128	5	7	0	0	14	5	0	0	19	0	0	99	0	0	0	0	17	294
2	0	0	0	0	0	0	0	790	4	0	0	0	14	18	0	0	19	0	0	62	0	0	1	0	2	910
3	0	0	0	0	1	0	0	5273	4	0	0	0	4	21	0	0	75	0	0	47	0	0	29	0	23	5477
4	0	0	0	0	0	0	0	3292	9	0	0	0	12	18	4	0	18	1	0	78	1	0	50	0	5	3488
5	0	0	0	0	0	0	5	790	6	0	0	0	9	12	0	0	76	0	0	565	1	0	8	0	11	1483
6	0	0	0	0	0	0	0	144	0	0	0	0	31	4	0	0	46	0	6	180	0	0	2	0	238	651
7	0	0	0	0	0	0	42	668	0	0	0	0	11	10	0	0	26	0	0	137	0	0	15	0	1	910
8	0	0	0	0	0	0	5	794	0	0	0	0	18	44	0	0	8	0	0	232	0	0	53	0	30	1184
9	0	0	0	0	0	0	0	3708	0	0	0	0	0	2	2	1	0	0	0	144	55	0	43	0	91	4046
10	0	0	0	0	1	0	5	14815	1	0	0	0	0	64	5	2	0	0	0	98	1	0	31	0	156	15179
11	0	0	0	0	0	0	0	568	0	0	0	0	5	18	9	0	90	0	0	72	9	0	16	0	13	800
12	0	0	0	0	0	0	0	254	0	0	0	0	0	2	8	1	0	0	0	147	0	0	22	0	73	507
13	0	0	0	0	0	0	7	151	0	0	0	0	0	5	24	4	0	0	0	69	0	0	17	0	63	340
14	0	0	0	0	0	0	0	21	0	0	0	0	0	14	0	1	0	0	0	43	0	0	21	0	113	213
15	0	0	0	0	0	0	13	234	0	0	0	0	0	16	0	0	0	0	0	5	3	0	127	0	82	480
16	0	0	0	0	1	0	31	710	0	0	0	2	0	4	0	0	0	0	0	1	0	0	17	0	145	911
17	0	0	0	0	31	0	109	137	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	76	362
18	0	0	0	0	0	0	6	124	0	0	0	0	0	16	15	0	0	0	0	3	1	0	10	0	148	323
19	0	0	0	0	0	0	0	289	0	0	0	0	0	6	0	2	0	0	0	8	0	0	56	0	88	449
20	0	0	0	0	0	0	11	312	0	0	0	0	0	7	0	2	0	0	0	5	0	0	35	0	88	460
21	0	0	0	0	0	0	0	95	0	0	0	0	0	26	5	7	0	0	0	15	0	0	9	0	233	390
22	0	0	0	0	1	0	1	1170	0	0	0	1	0	42	0	0	0	0	0	0	0	0	0	5	184	1404
23	0	0	0	0	3	0	18	1346	0	0	0	1	0	5	0	0	0	0	0	0	0	0	1	4	167	1545
24	0	0	0	0	0	0	22	713	0	0	0	0	0	7	0	2	0	0	0	0	1	3	80	0	235	1063
25	0	0	0	0	0	0	15	560	0	0	0	0	0	9	1	3	0	0	0	0	0	0	3	0	119	710
26	0	0	0	0	0	0	0	4750	0	0	0	0	0	16	0	0	0	0	0	0	1	0	66	0	621	5454
27	0	0	0	0	0	0	40	345	0	0	0	0	0	30	6	0	0	0	0	0	0	0	42	0	861	1324
28	0	0	0	0	0	0	12	0	0	0	0	0	0	11	0	3	0	0	0	0	4	11	14	1	201	257
29	0	0	0	0	1	0	10	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	6	87	106
30	0	0	0	0	0	0	20	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	2	1	137	164
31	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	76	3	222	18	108	435
32	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	154	169
33	0	0	0	1	0	0	7	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	60	28	94	192
34	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	7	0	25	55
35	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	4	38	181
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	3	0	124	144
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	54	69

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY
ALBATROSS IV FEB 06 - MAR 02, 2007
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 FFLOUNDER	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	1	0	0	0	0	0	0	7	0	219	240
40	0	0	0	0	0	0	5	0	0	0	0	0	0	9	3	0	0	0	0	0	0	0	13	0	463	493
41	0	0	0	0	0	0	10	0	0	0	0	0	0	9	8	3	0	0	0	0	0	0	11	0	537	578
42	0	0	0	0	0	0	15	0	0	0	0	0	0	90	6	1	0	0	0	0	0	0	22	0	1072	1206
43	0	0	0	0	0	0	12	93	0	0	0	0	0	21	3	0	0	0	0	7	1	0	77	0	813	1027
44	0	0	0	0	0	0	5	354	0	0	0	0	7	62	1	0	0	0	12	4	3	0	18	0	386	852
45	0	0	0	0	0	0	0	1107	0	0	0	0	1	87	4	0	0	0	0	22	14	0	38	0	471	1744
46	0	0	0	0	0	0	5	699	0	0	0	0	1	49	34	0	0	0	0	10	4	0	44	0	532	1378
47	0	0	0	0	0	0	13	822	0	0	0	0	3	87	2	0	0	0	4	10	31	0	8	0	241	1221
48	0	0	0	0	0	0	6	536	0	0	0	0	2	41	0	0	0	0	23	1	2	0	71	0	98	780
49	0	0	0	0	0	0	5	628	0	0	0	0	0	25	0	1	0	0	0	51	0	0	43	0	166	919
50	0	0	0	0	0	0	0	347	0	0	0	0	1	36	0	0	0	0	10	6	4	0	15	0	123	542
51	0	0	0	0	0	0	0	540	0	0	0	0	9	17	0	1	14	0	0	39	2	0	1	0	153	776
52	0	0	0	0	0	0	5	343	0	0	0	0	0	14	0	0	0	0	6	51	1	0	14	0	240	674
53	0	0	0	0	0	0	12	1028	0	0	0	0	0	22	0	1	0	0	0	38	4	0	21	0	129	1255
54	0	0	0	0	0	0	4	731	0	0	0	0	4	12	0	1	57	0	23	55	0	0	2	0	91	980
55	0	0	0	0	0	0	12	124	0	0	0	0	36	24	0	0	2	0	0	46	0	0	1	0	32	277
56	0	0	0	0	0	0	0	623	0	0	0	0	15	45	0	0	14	0	12	39	2	0	17	0	46	813
57	0	0	0	1	0	0	136	1308	0	0	0	24	0	0	0	0	0	0	0	0	0	2	2	25	252	1750
58	0	0	0	0	1	0	28	373	0	0	0	0	0	9	1	0	0	0	0	0	5	0	29	4	49	499
59	0	0	0	0	0	0	6	760	0	0	0	1	0	50	6	7	0	0	0	55	0	0	49	0	159	1093
60	0	0	0	0	2	0	11	271	0	0	0	0	0	5	1	0	0	0	0	1	1	3	13	0	35	343
61	0	0	0	0	12	0	24	659	0	0	0	0	0	3	0	0	0	0	0	0	0	0	39	2	86	825
62	0	0	0	1	4	0	76	352	0	0	0	1	0	0	0	0	0	0	0	0	0	12	0	0	88	534
63	0	0	0	0	0	0	10	65	0	0	0	2	0	81	3	9	0	0	0	34	0	0	22	0	66	292
64	0	0	0	0	5	0	9	258	0	0	0	3	0	15	2	0	0	0	0	9	1	0	112	0	205	619
65	0	0	0	0	2	0	4	444	0	0	0	3	0	13	2	0	0	0	0	0	2	0	54	0	77	601
66	0	0	0	0	9	0	172	1848	0	0	0	122	0	10	0	0	0	0	0	0	0	4	43	10	129	2347
67	0	0	0	0	0	0	11	334	0	0	0	2	0	22	0	0	0	0	0	1	2	0	31	0	30	433
68	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	
69	0	0	0	0	0	0	4	89	0	0	0	2	0	44	1	16	0	0	0	29	1	0	59	0	68	313
70	0	0	0	0	0	0	4	126	0	0	0	0	0	20	0	5	0	0	0	80	2	0	5	0	22	264
71	0	0	0	0	1	0	8	84	0	0	0	1	0	40	3	0	0	0	0	0	0	0	14	0	38	189
72	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
73	36	0	0	0	1	0	0	40	68	14	0	0	64	3	0	0	2	1	713	266	0	0	0	0	78	1286
74	0	0	0	0	6	0	22	6	0	0	0	0	0	5	0	0	4	1	5	12	0	5	2	0	25	93

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY
ALBATROSS IV FEB 06 - MAR 02, 2007
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

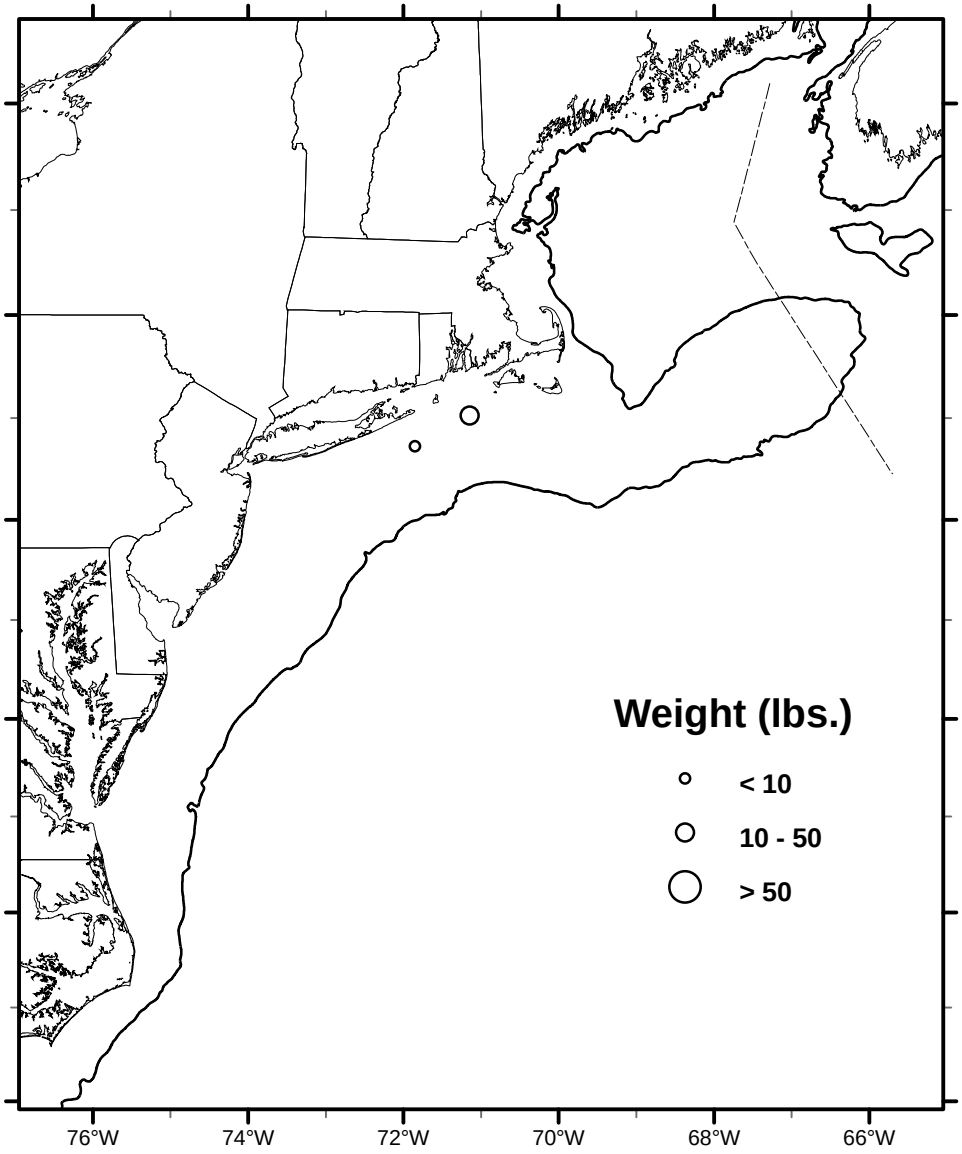
STATION	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
75	0	0	0	0	14	0	20	91	0	1	0	0	0	3	0	0	48	9	0	2	8	0	13	0	29	238
76	0	0	0	0	0	0	40	22	0	0	0	0	0	6	0	0	0	0	0	0	12	0	43	0	17	140
77	0	0	0	16	23	0	77	98	0	0	0	19	0	0	0	0	0	0	0	0	0	3	4	3	30	273
78	0	0	0	0	1	0	33	82	0	0	0	0	0	9	0	0	0	0	0	0	1	0	62	3	23	214
79	0	0	0	0	2	0	16	251	0	0	0	0	0	203	1	0	0	0	0	0	167	0	83	0	21	744
80	0	0	0	0	17	0	186	276	0	0	0	0	0	2	0	0	0	0	0	0	0	0	51	1	60	593
81	0	0	0	0	1	0	14	89	0	0	0	0	0	52	0	0	0	0	0	0	1	0	41	0	22	220
82	0	0	0	0	1	0	3	121	0	0	0	0	0	11	0	0	0	0	0	0	63	0	32	0	14	245
83	0	0	0	0	3	0	13	216	0	0	0	0	0	1	0	1	0	0	0	1	7	0	17	0	168	427
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
85	0	0	0	0	0	0	9	84	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	17	112
86	0	0	0	0	16	0	56	639	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	51	763
87	0	0	0	0	15	0	6	694	0	0	0	0	0	0	0	0	0	0	0	0	0	3	13	4	66	801
88	0	0	0	0	2	0	0	5186	0	0	0	1	0	177	400	1	5	13	0	55	29	0	57	0	42	5968
89	0	0	0	0	0	0	0	0	2	3	0	0	1	4	0	0	0	0	11	56	0	0	0	0	26	103
90	0	0	0	0	0	0	0	78	3	1	0	0	1	0	0	0	2	0	0	57	0	0	0	0	3	145
91	0	0	0	0	0	0	0	7	0	15	0	0	9	0	0	0	0	0	28	93	0	0	0	0	6	158
92	0	0	0	0	0	0	9	226	13	1	0	0	5	1	0	0	15	7	56	321	0	0	1	0	13	668
93	0	0	0	0	1	0	9	732	6	0	0	0	0	6	0	0	105	6	10	419	2	0	0	0	39	1335
94	0	0	0	0	2	0	0	1018	4	0	0	0	0	0	0	0	302	17	8	221	0	0	3	0	20	1595
95	0	0	0	0	8	0	29	496	0	0	0	4	0	3	0	0	4	0	0	509	0	5	3	0	80	1141
96	0	0	0	0	0	0	0	234	1	0	0	0	0	0	0	0	1	0	0	131	0	0	0	0	14	381
97	0	0	0	0	2	0	3	2332	0	0	0	1	0	140	0	18	21	0	0	85	0	0	21	0	57	2680
98	0	0	0	0	1	0	9	1094	0	0	0	1	0	59	30	2	0	0	0	9	11	0	13	0	21	1250
99	0	0	0	0	1	0	98	5875	0	0	0	42	0	116	0	0	0	0	0	0	3	0	70	7	135	6347
100	0	0	0	0	2	0	3	875	0	0	0	3	0	71	125	29	7	0	0	7	3	0	16	0	118	1259
101	0	0	0	0	3	0	13	2130	0	0	0	4	0	110	50	7	0	8	0	51	4	0	85	0	62	2527
102	0	0	0	0	2	0	9	732	0	0	0	1	0	10	0	1	0	0	0	15	4	0	5	0	30	809
103	0	0	0	0	14	0	11	102	0	0	0	0	0	50	2	13	8	0	0	109	1	0	21	0	125	456
104	0	0	0	0	4	0	2	153	0	0	0	3	0	68	2	1	5	0	0	78	1	0	12	0	48	377
105	0	0	0	0	3	0	22	1315	0	0	0	0	0	72	0	0	46	68	0	93	0	0	14	0	145	1778
106	0	0	0	0	6	0	9	55	0	0	0	1	0	49	6	0	0	0	3	30	9	0	6	0	80	254
107	0	0	0	0	7	0	19	112	0	0	0	2	0	297	0	0	4	12	0	27	4	0	23	0	47	554
108	0	0	0	0	3	0	4	235	1	0	0	1	0	41	0	0	3	265	2	83	56	0	13	0	28	735
109	0	0	0	0	0	0	14	1402	36	0	0	0	2	16	0	0	7	5	7	380	7	0	1	0	25	1902
110	0	0	0	0	1	0	0	132	21	3	0	0	9	7	0	0	1	2	153	88	0	0	0	0	131	548
111	0	0	0	0	0	0	0	0	3	43	0	0	17	0	0	0	0	0	109	245	0	0	0	0	4	421

NOAA FISHERIES SERVICE WINTER BOTTOM TRAWL SURVEY
ALBATROSS IV FEB 06 - MAR 02, 2007
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

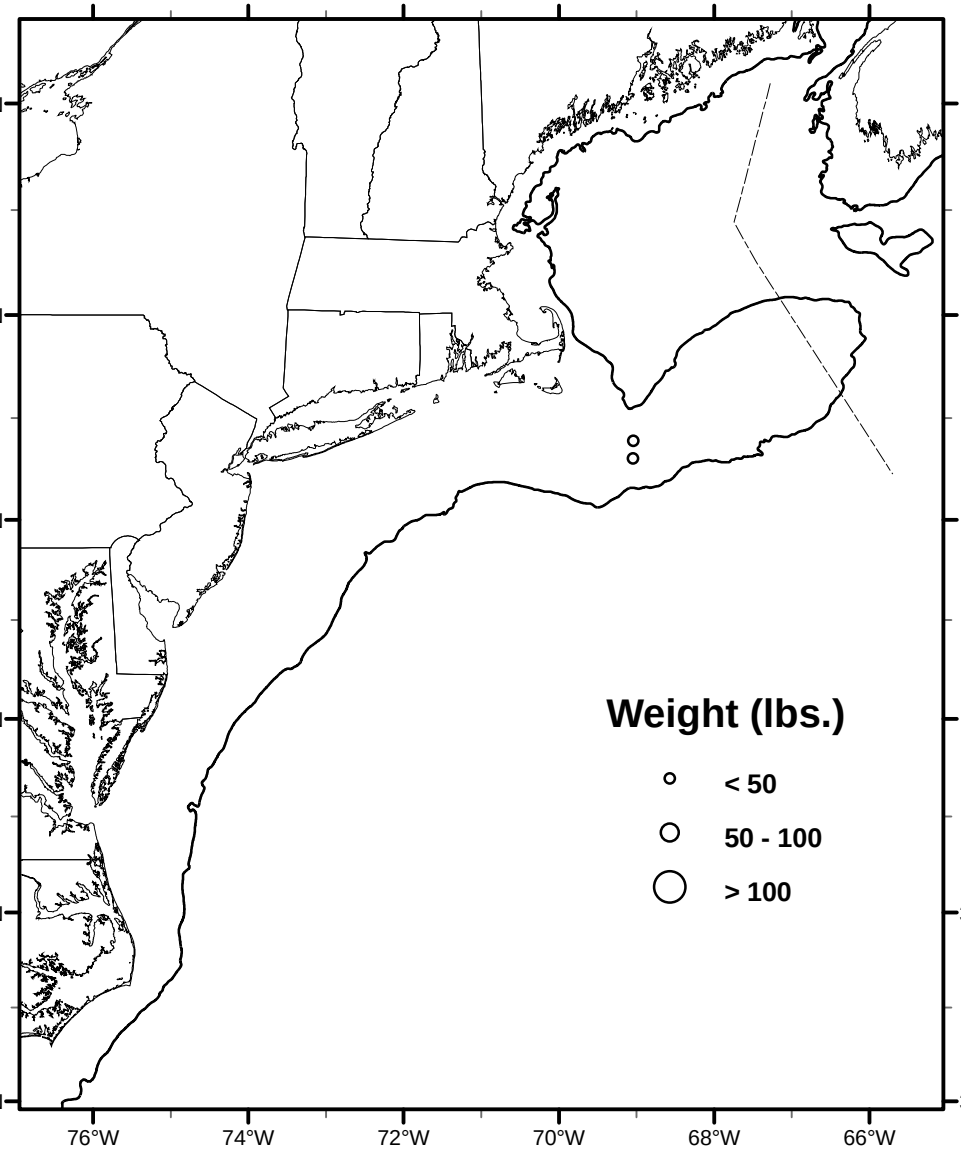
STATION	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
112	6	0	0	0	0	0	6	89	56	0	0	0	4	4	0	0	10	5	58	492	0	0	0	0	23	753
113	0	0	0	0	9	0	81	16	0	0	0	0	0	19	0	0	9	6	38	124	0	0	0	0	37	339
114	0	0	0	0	6	0	19	46	0	0	0	0	0	22	0	0	12	4	0	14	1	0	4	0	12	140
115	0	0	0	0	4	0	0	0	12	4	0	0	7	4	0	0	0	0	368	769	0	0	0	0	49	1217
116	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	8	25	0	0	0	0	2	38
117	0	0	0	0	0	0	0	0	2	1	0	0	2	0	0	0	0	0	5	24	0	0	0	0	12	46
118	0	0	0	0	48	0	1	0	11	0	0	0	16	28	0	0	0	0	42	167	0	0	0	0	41	354
119	0	0	0	0	11	0	8	0	6	0	0	1	14	9	0	0	3	0	117	37	0	0	0	0	44	250
120	0	0	0	0	5	0	14	8	0	0	0	0	0	11	0	0	5	47	13	0	0	0	0	0	41	144
121	0	0	0	0	1	0	12	25	0	0	0	0	0	42	0	0	0	0	0	0	66	0	28	0	36	210
122	0	0	0	0	4	0	17	41	0	0	0	0	0	97	0	0	0	0	0	0	18	0	48	0	61	286
123	0	0	0	0	5	0	0	31	0	0	0	0	0	156	0	0	6	0	0	0	11	0	65	0	98	372
124	0	0	0	0	2	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	29	76
125	0	0	0	0	13	0	13	36	0	0	0	1	0	7	0	0	0	0	12	0	167	0	21	0	70	340
126	0	0	0	12	1	0	346	93	0	0	0	15	0	0	0	0	0	0	0	0	0	3	0	1	115	586
127	0	0	0	9	15	0	385	61	0	0	0	184	0	0	0	0	0	0	0	0	0	18	16	3	498	1189
128	0	0	0	0	0	0	7	0	50	0	0	3	8	7	0	0	0	5	33	66	0	0	0	0	13	192
129	0	0	0	0	4	0	0	3	50	0	0	0	17	87	0	0	0	145	65	20	0	0	0	0	24	415
130	0	0	0	2	2	0	1	0	6	0	0	0	3	7	0	0	0	5	98	57	0	2	0	0	53	236
131	0	0	0	0	3	0	1	0	9	0	0	0	7	1	0	0	1	0	447	608	0	0	0	0	101	1178
132	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1	0	69	531	0	0	0	0	8	614
133	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	7	0	25	118	0	0	0	0	1	154
134	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	3
135	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	
136	0	7	0	0	1	0	0	0	6	2	0	0	4	0	0	0	0	1	11	31	0	0	0	0	38	101
137	0	0	0	0	1	0	0	0	73	2	0	0	9	5	0	0	0	1	56	72	0	0	0	0	58	277
138	0	29	0	0	0	0	0	6	11	11	1	0	15	0	0	0	0	9	5	99	0	0	0	0	210	396
139	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4	0	0	0	0	6	16
TOTAL	42	36	0	42	372	0	2725	84812	487	114	1	467	415	3508	776	147	1108	643	2	671	9300	891	105	3033	131	15623	127449

* "Total other" in southern areas is comprised primarily of smooth dogfish and clearnose skates, in northern areas barndoor skates, sea scallops, fourspot flounder and searobins.

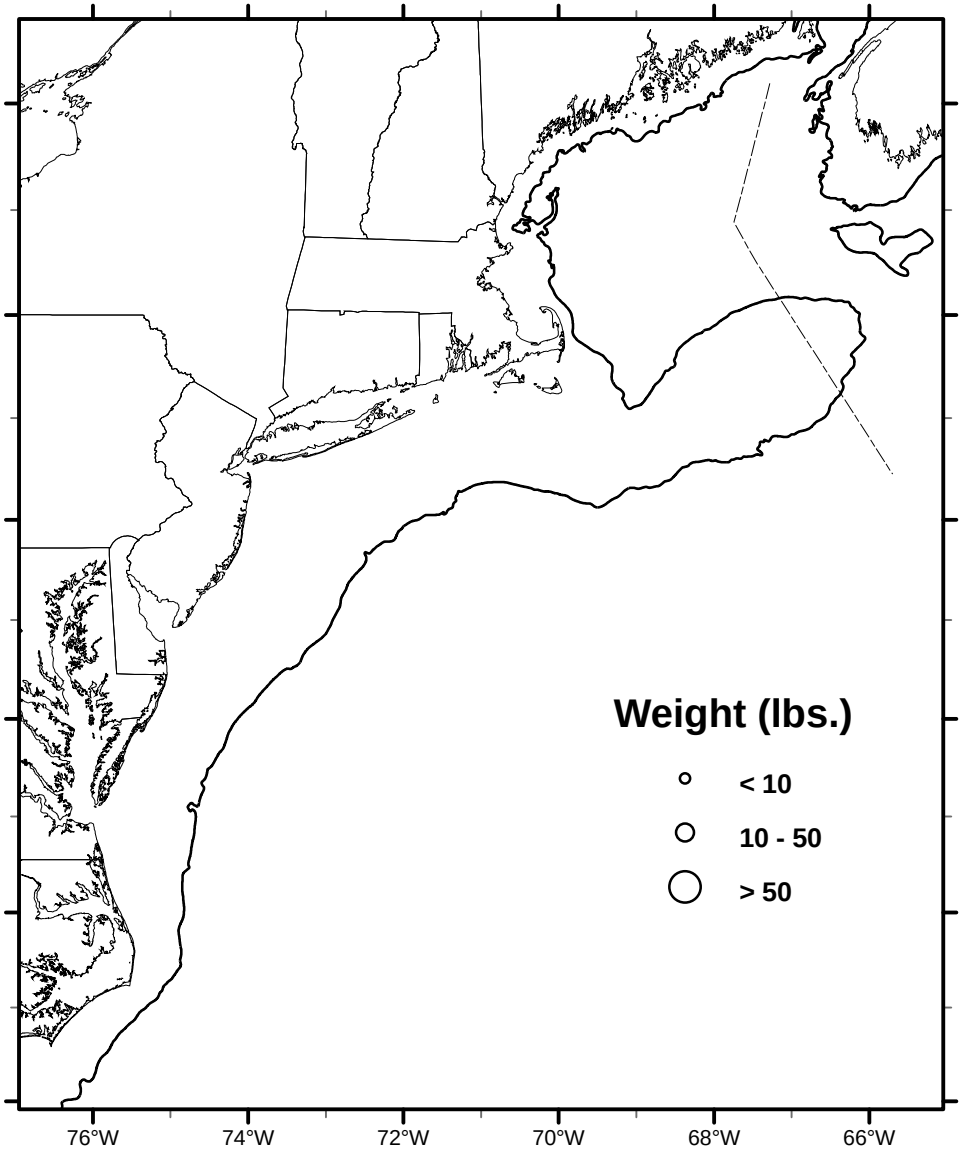
ATLANTIC COD
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



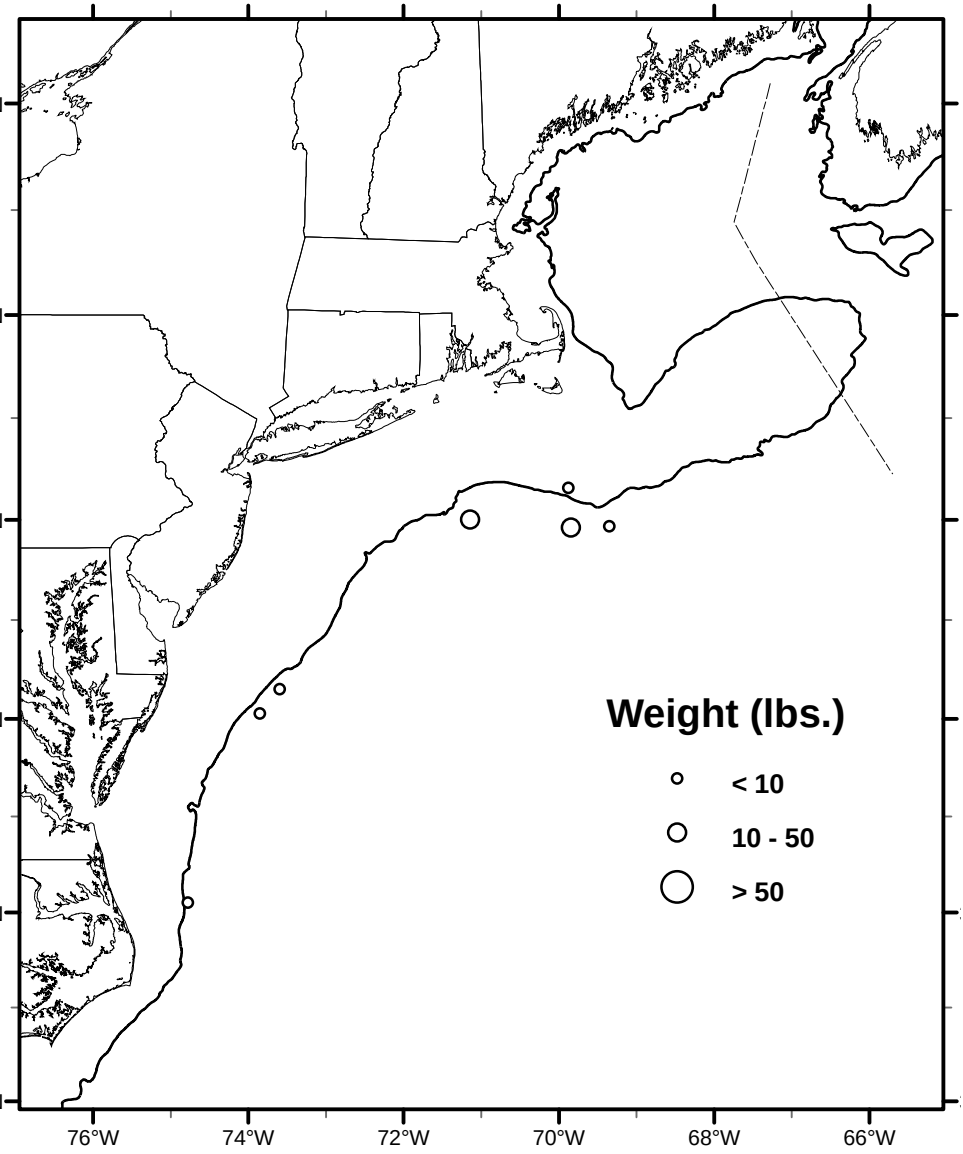
HADDOCK
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



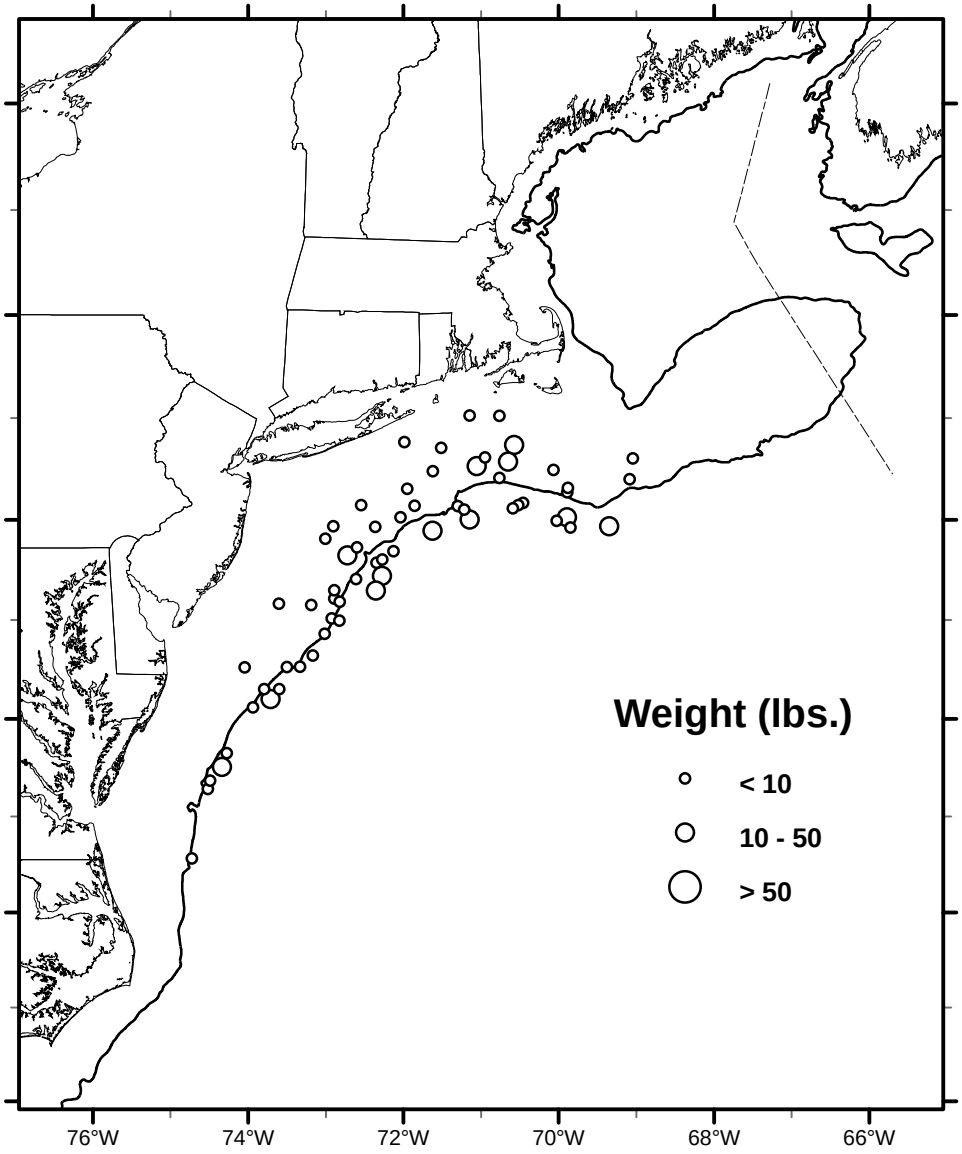
POLLOCK
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



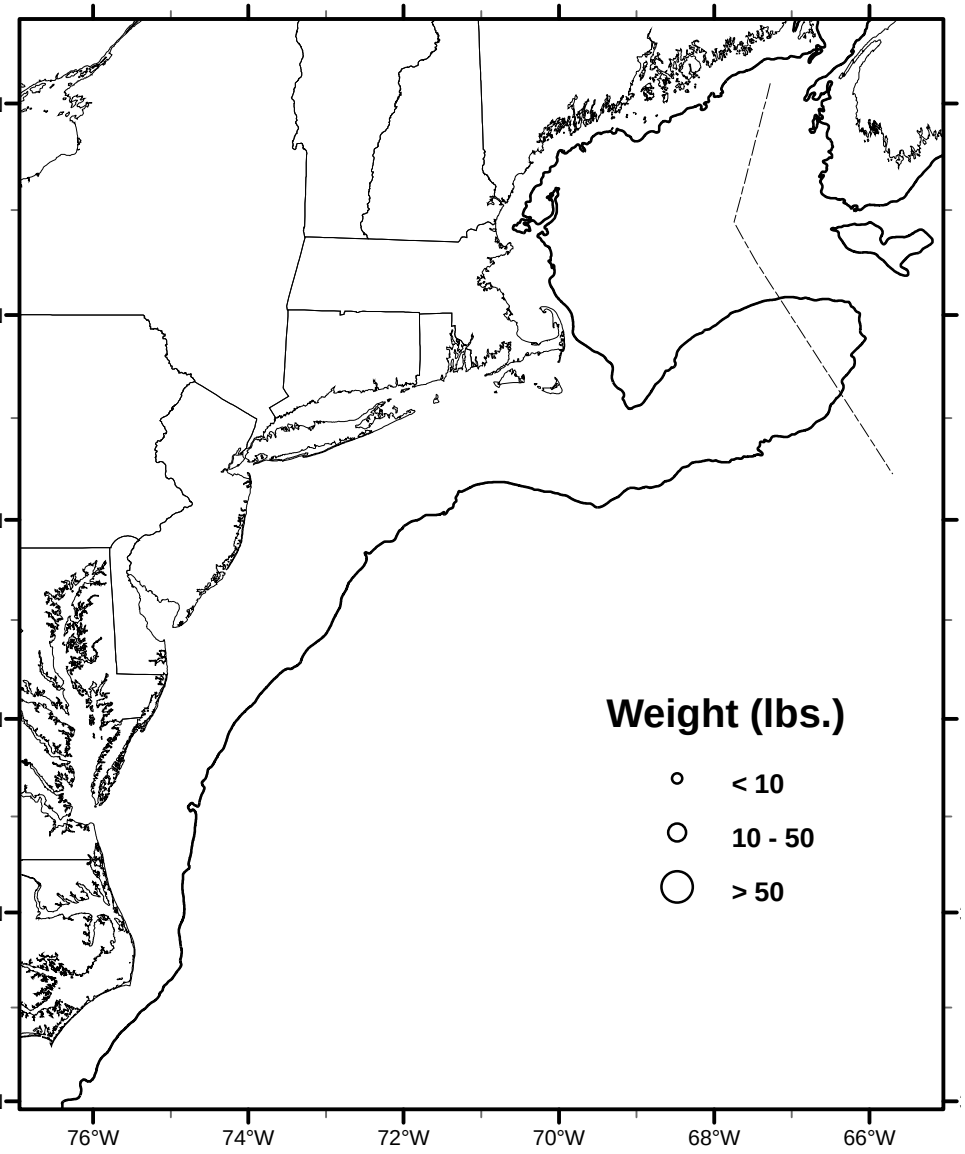
WHITE HAKE
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



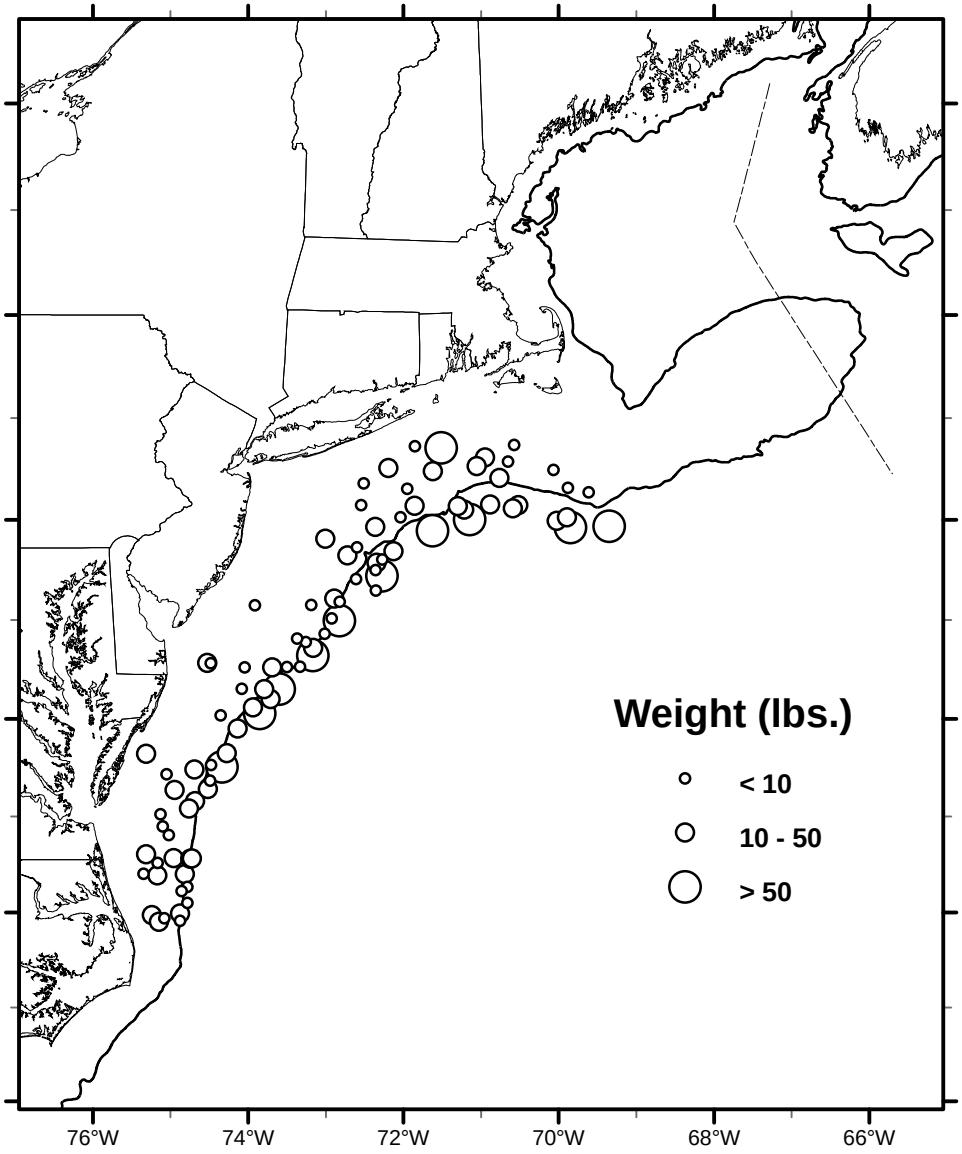
SILVER HAKE
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



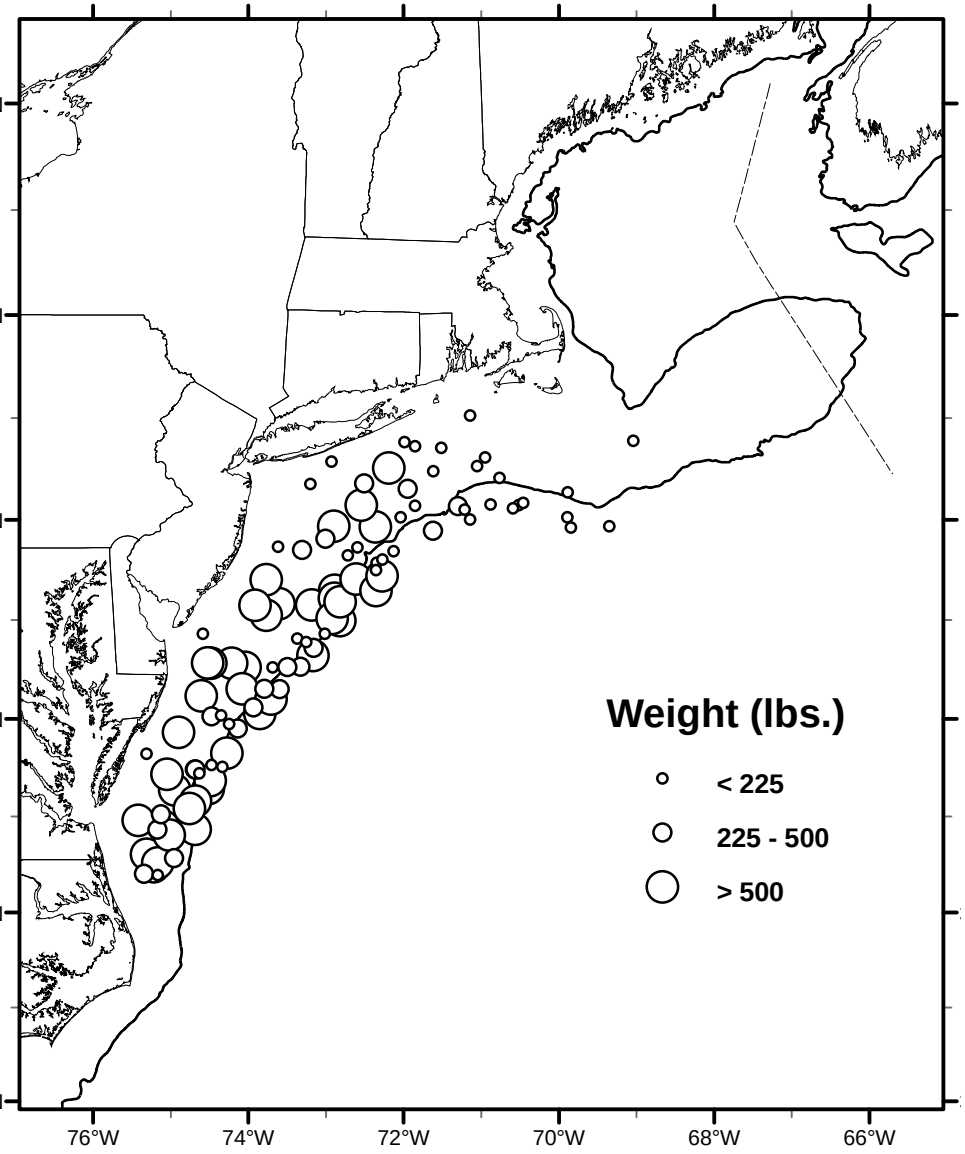
ACADIAN REDFISH
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



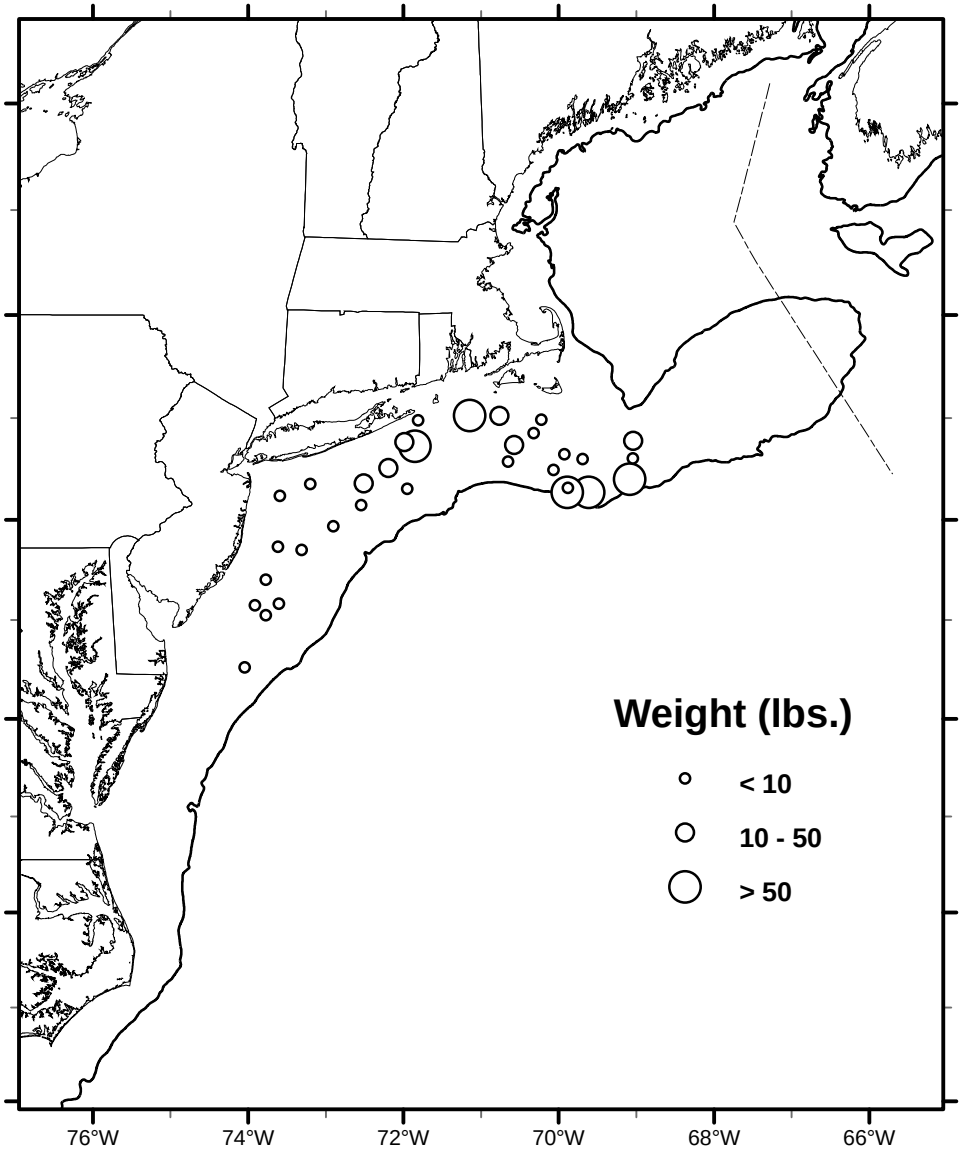
GOOSEFISH
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



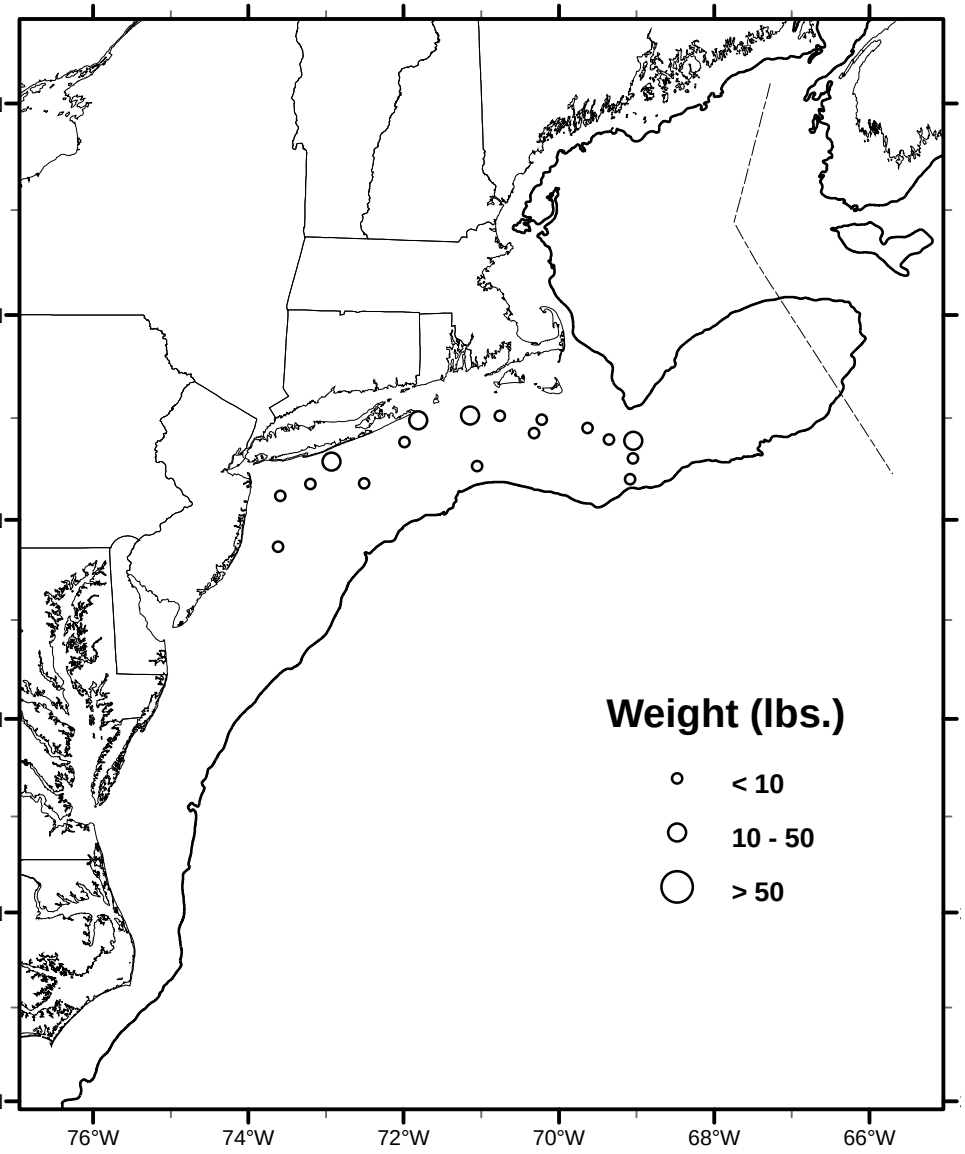
SPINY DOGFISH
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



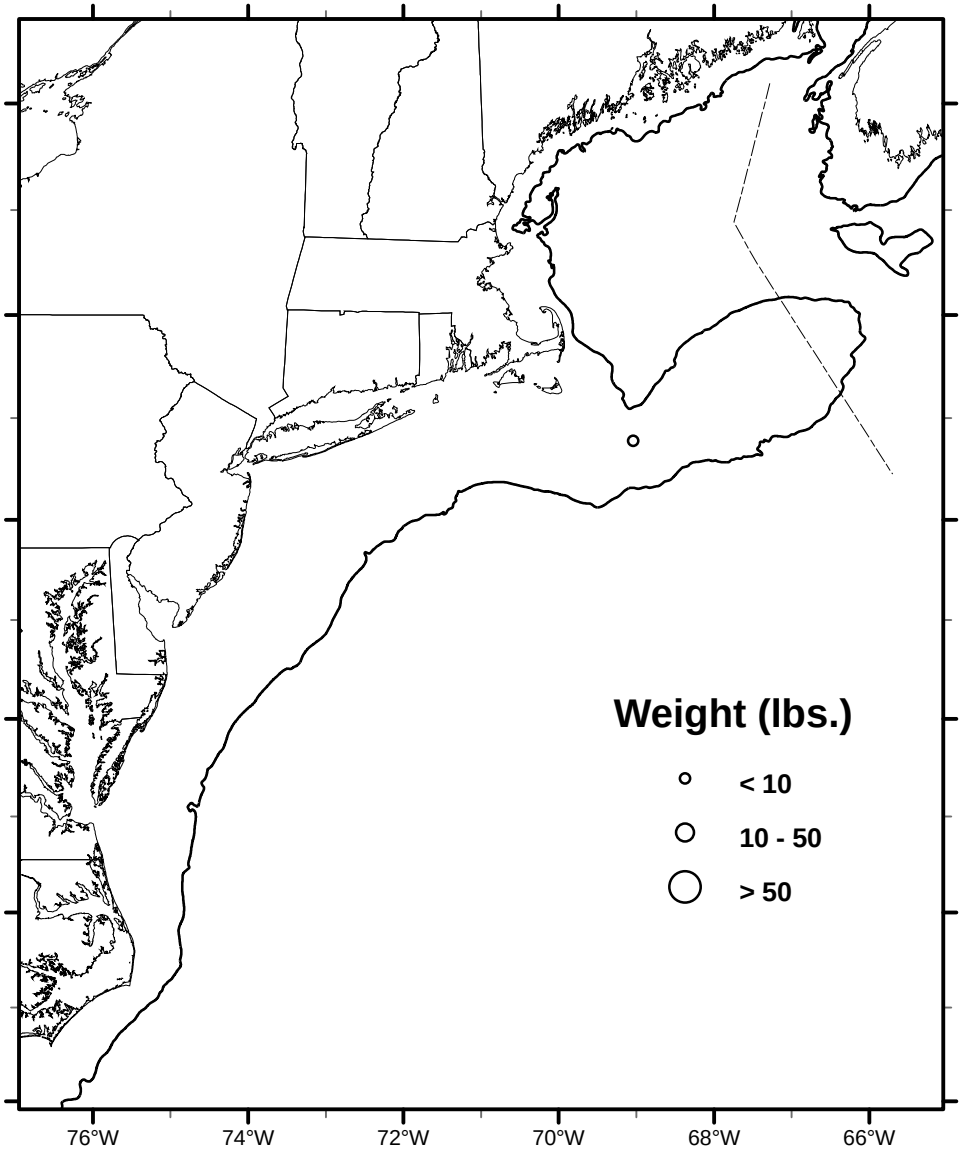
YELLOWTAIL FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



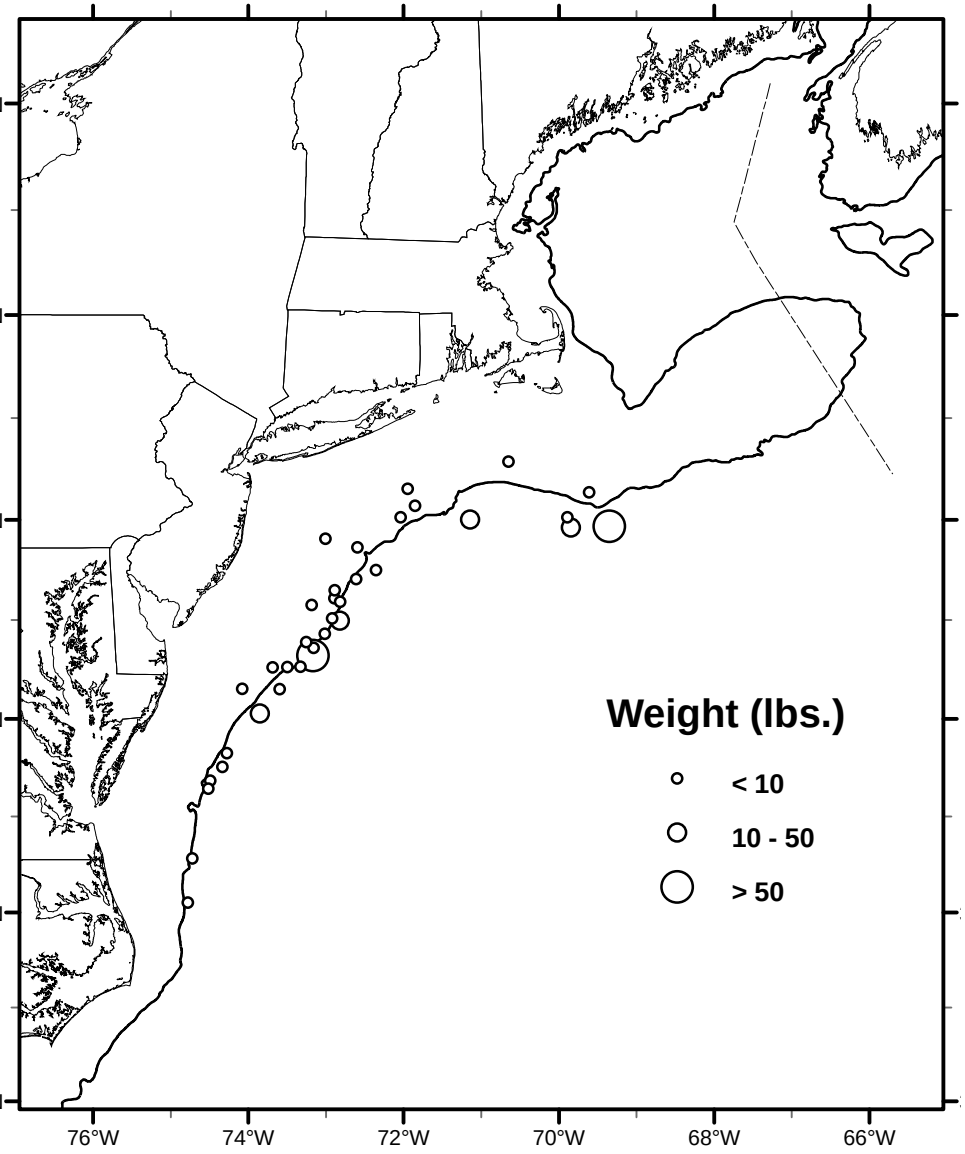
WINTER FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



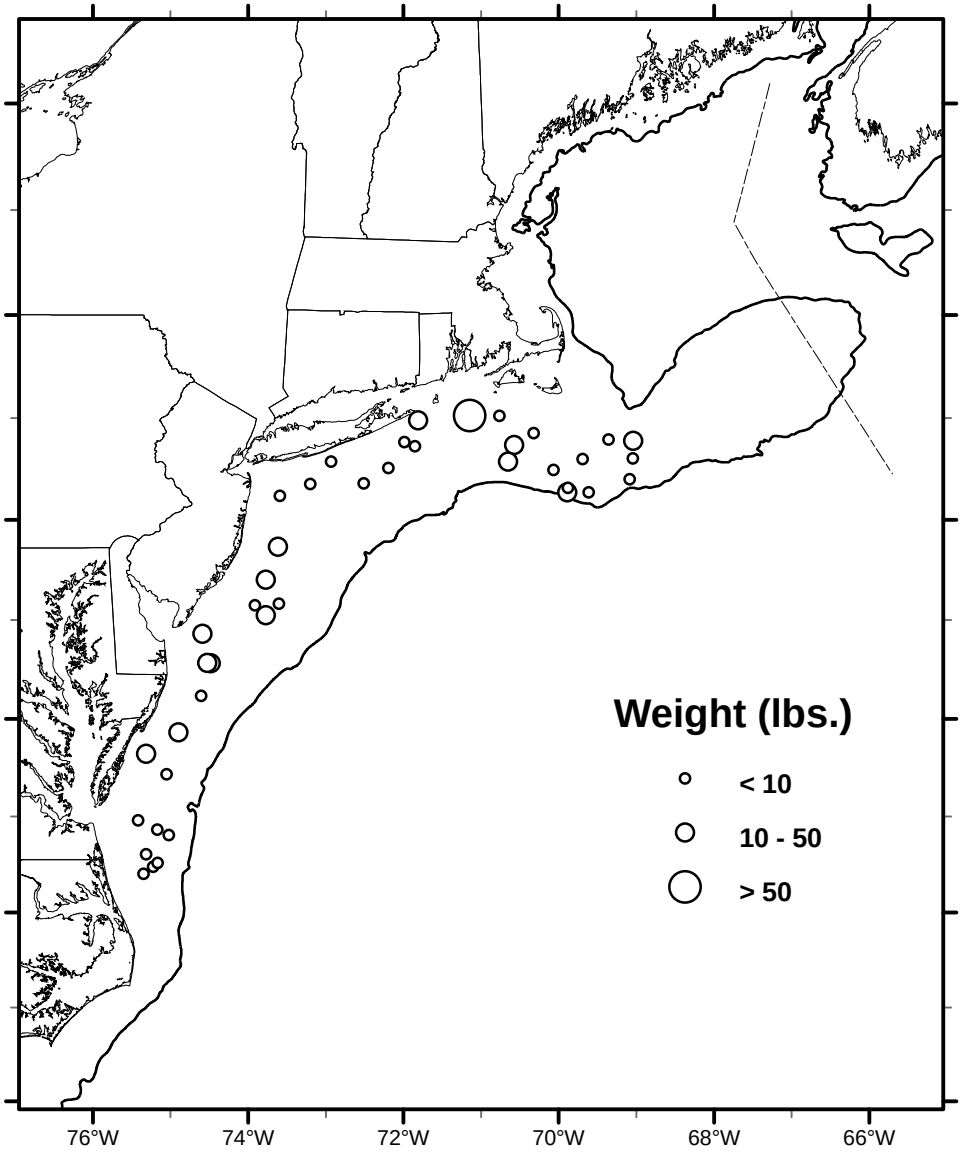
AMERICAN PLAICE
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



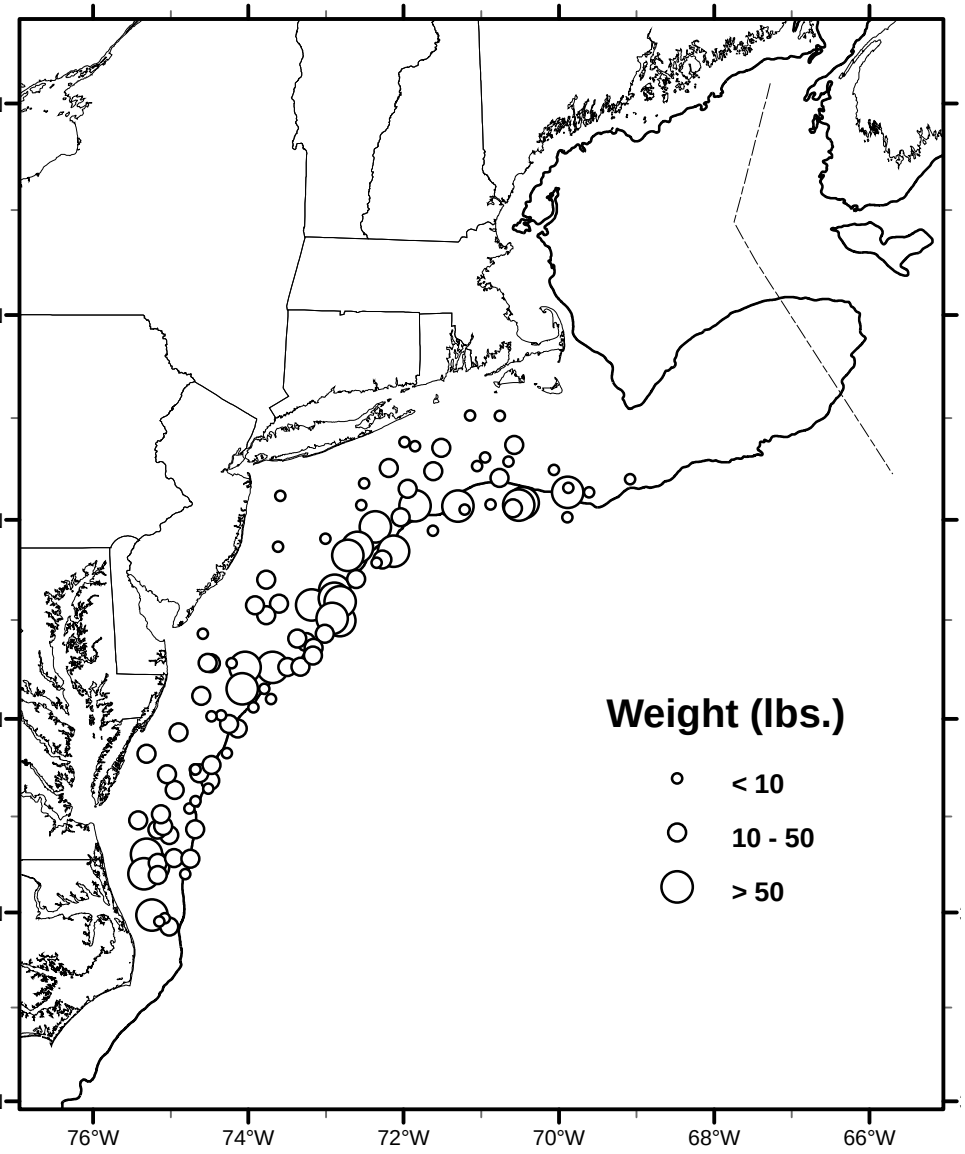
WITCH FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



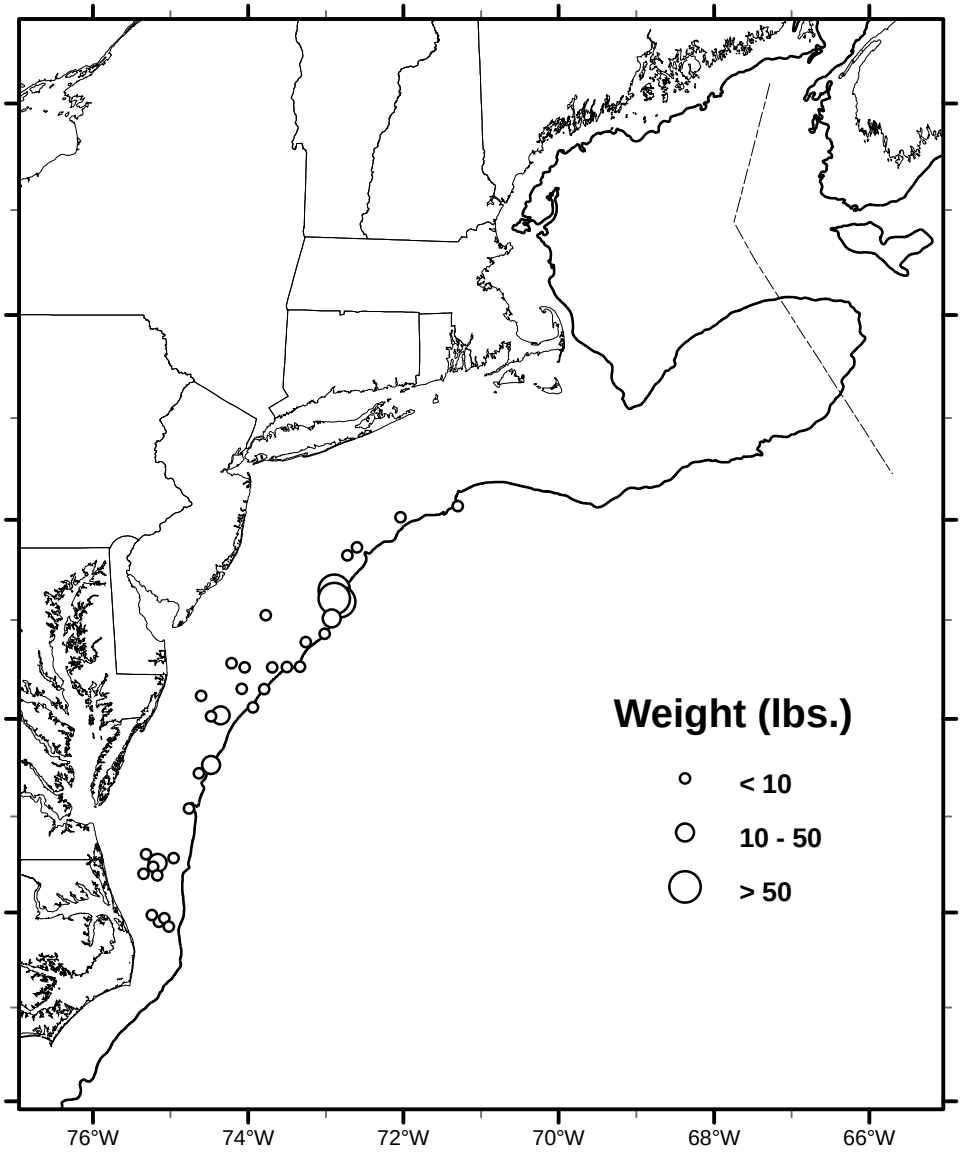
WINDOWPANE FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



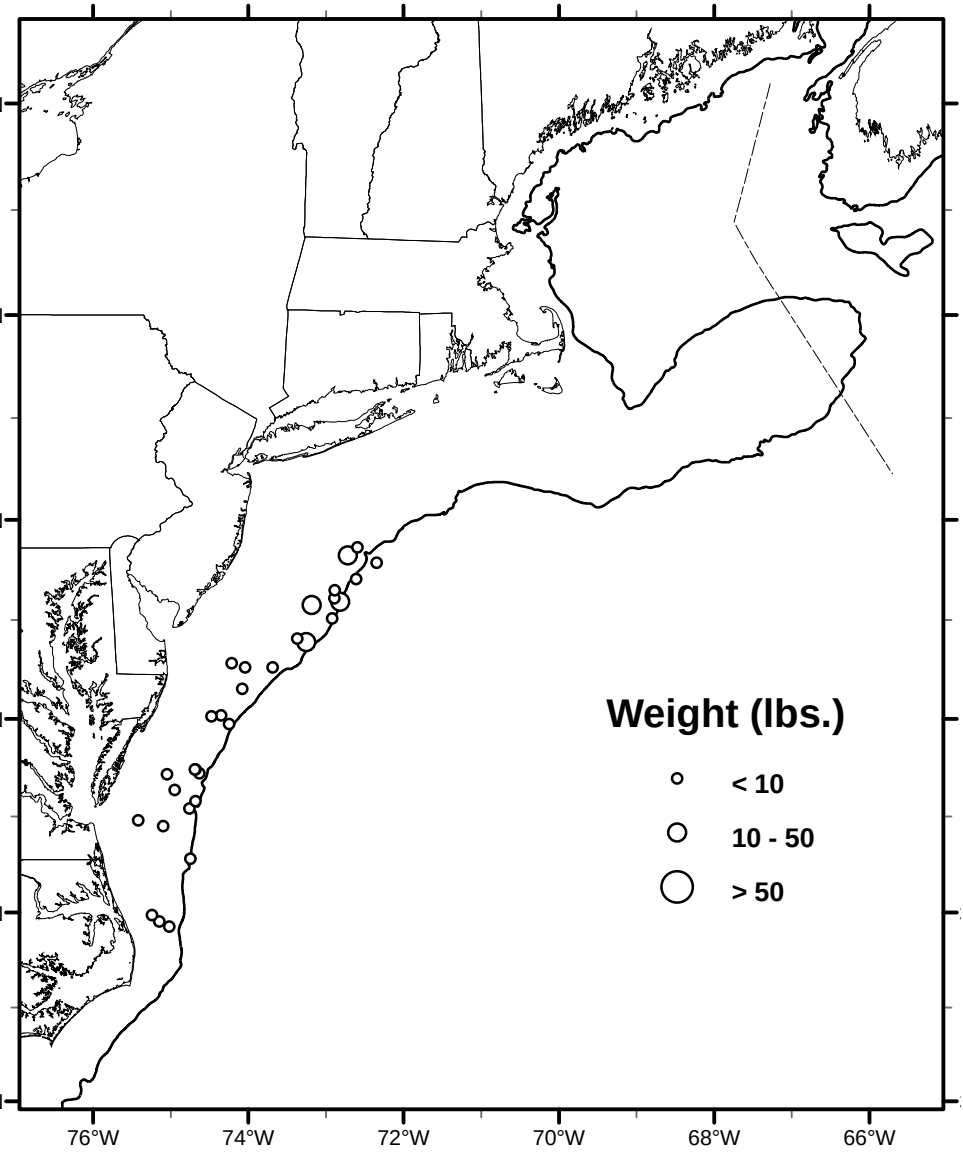
SUMMER FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



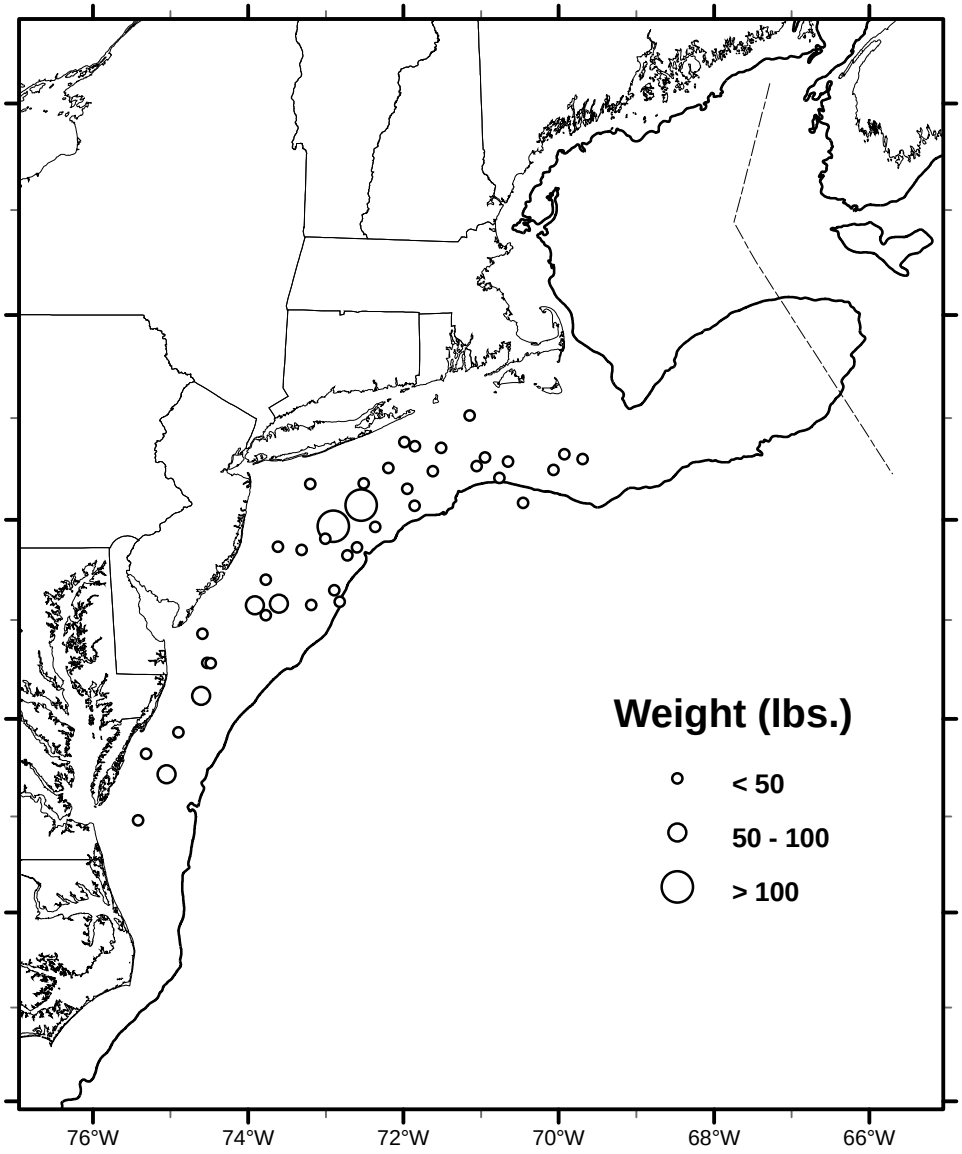
SCUP
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



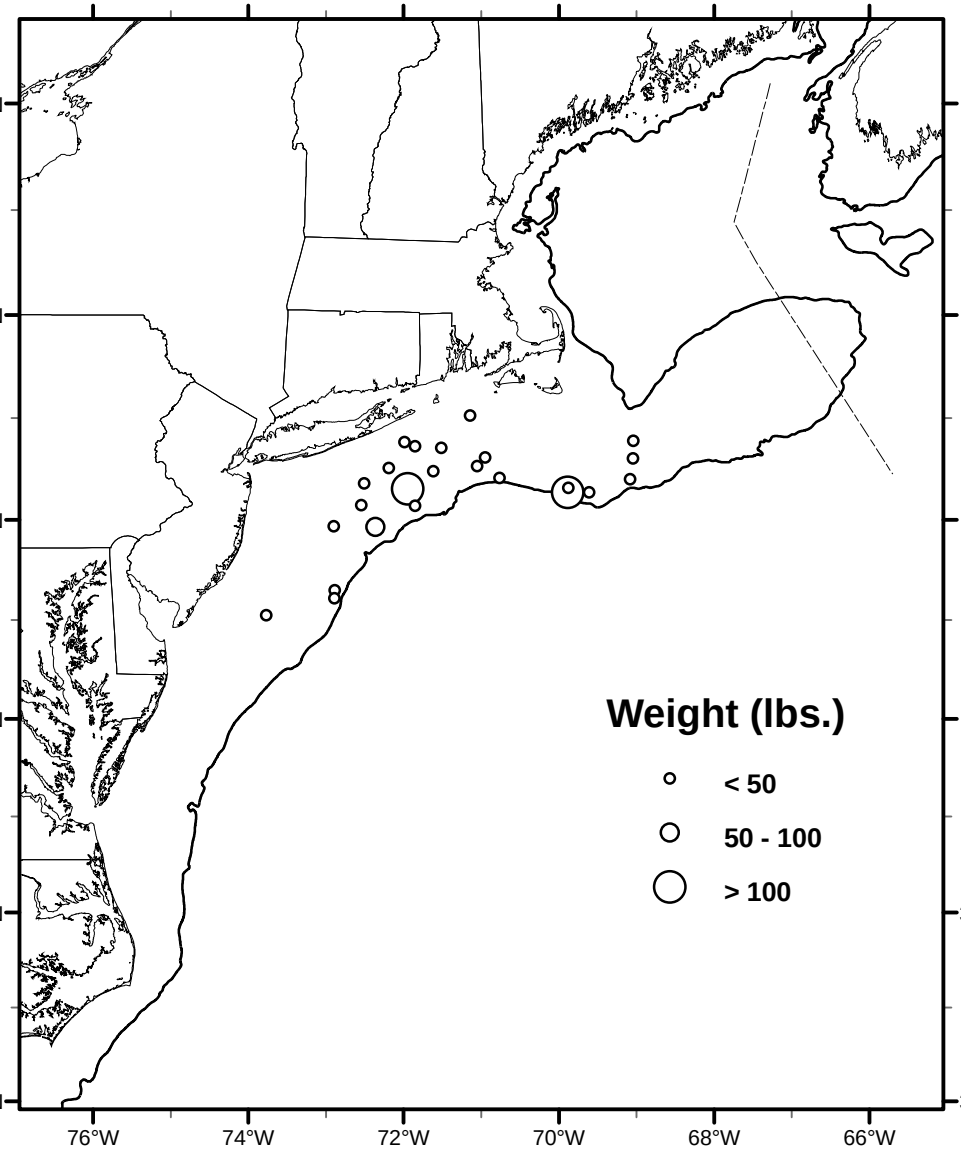
BLACK SEA BASS
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



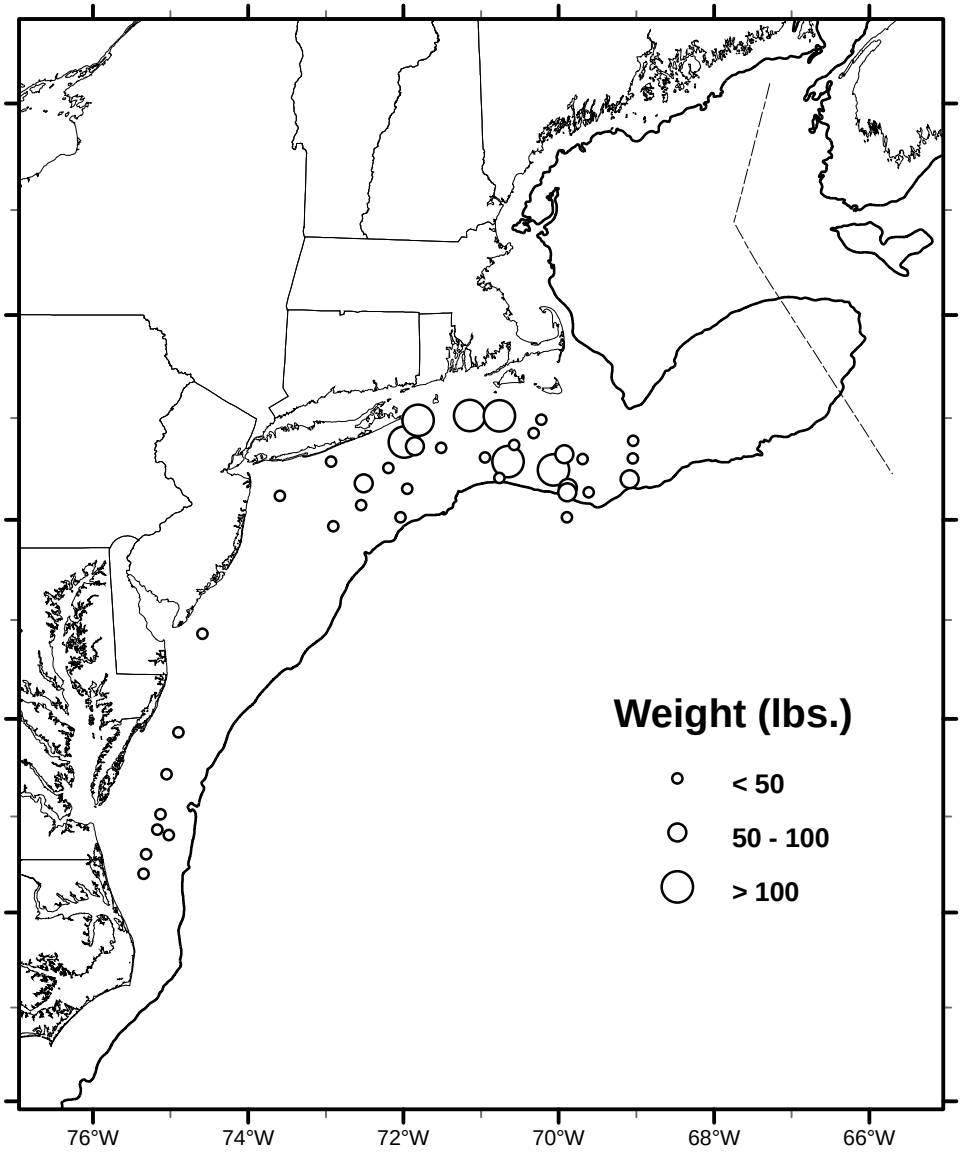
ATLANTIC HERRING
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



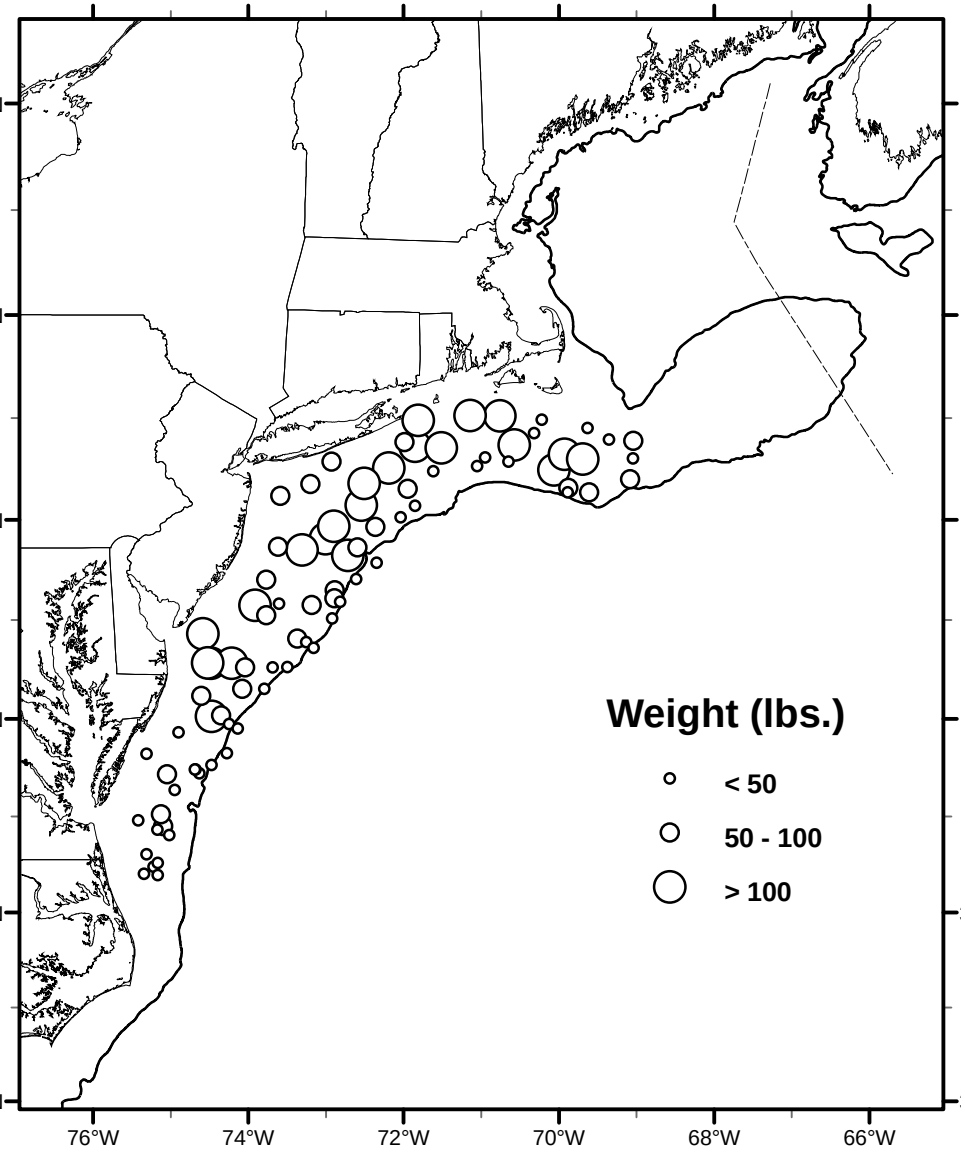
ATLANTIC MACKEREL
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



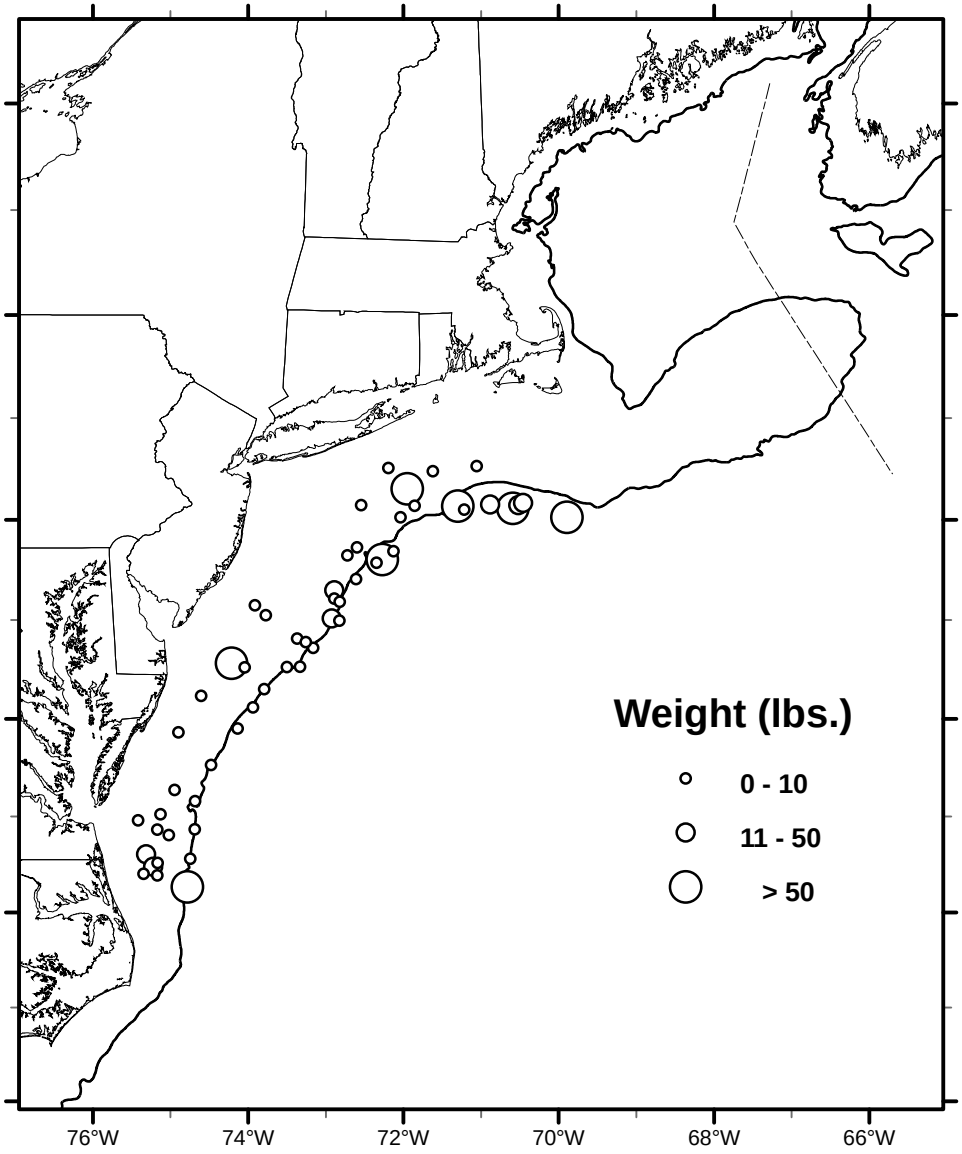
WINTER SKATE
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



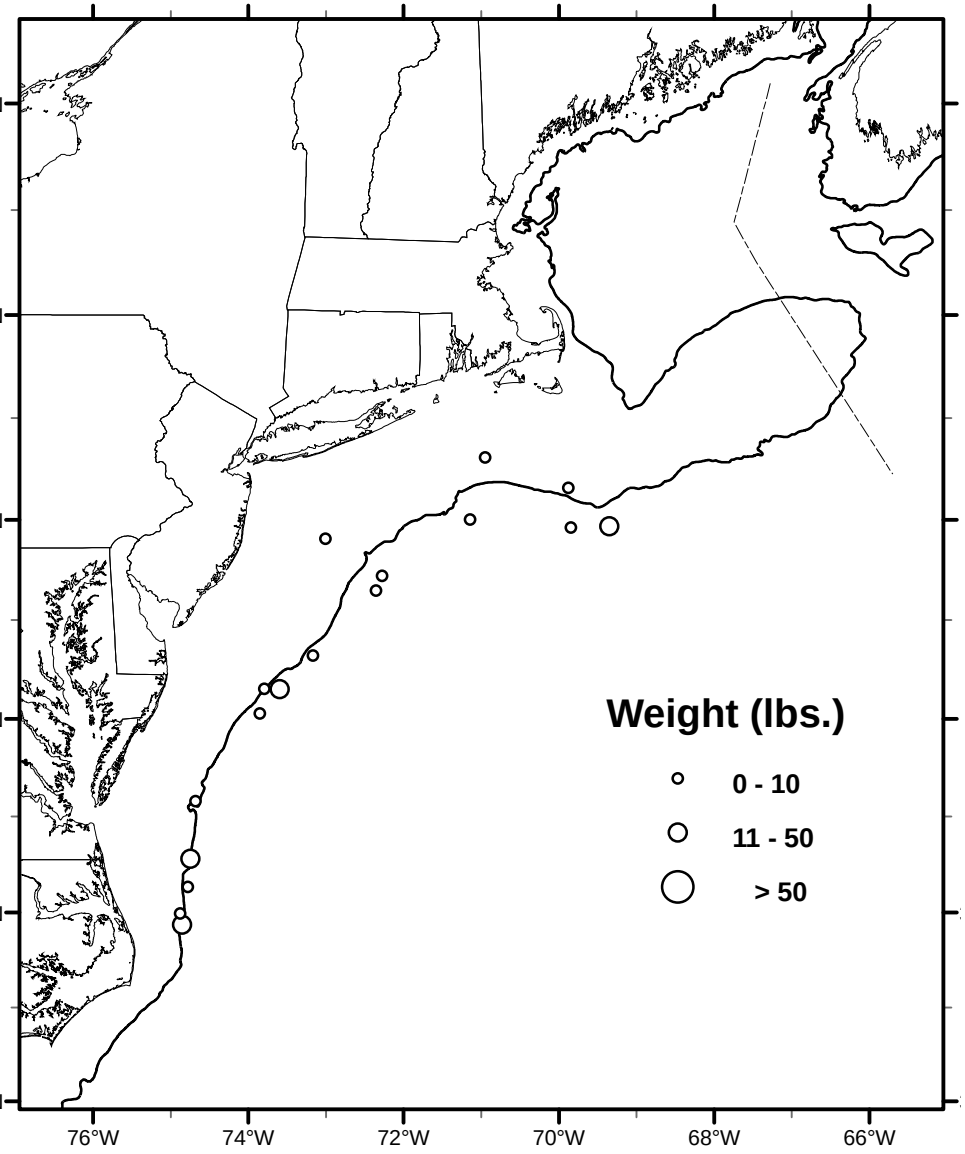
LITTLE SKATE
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



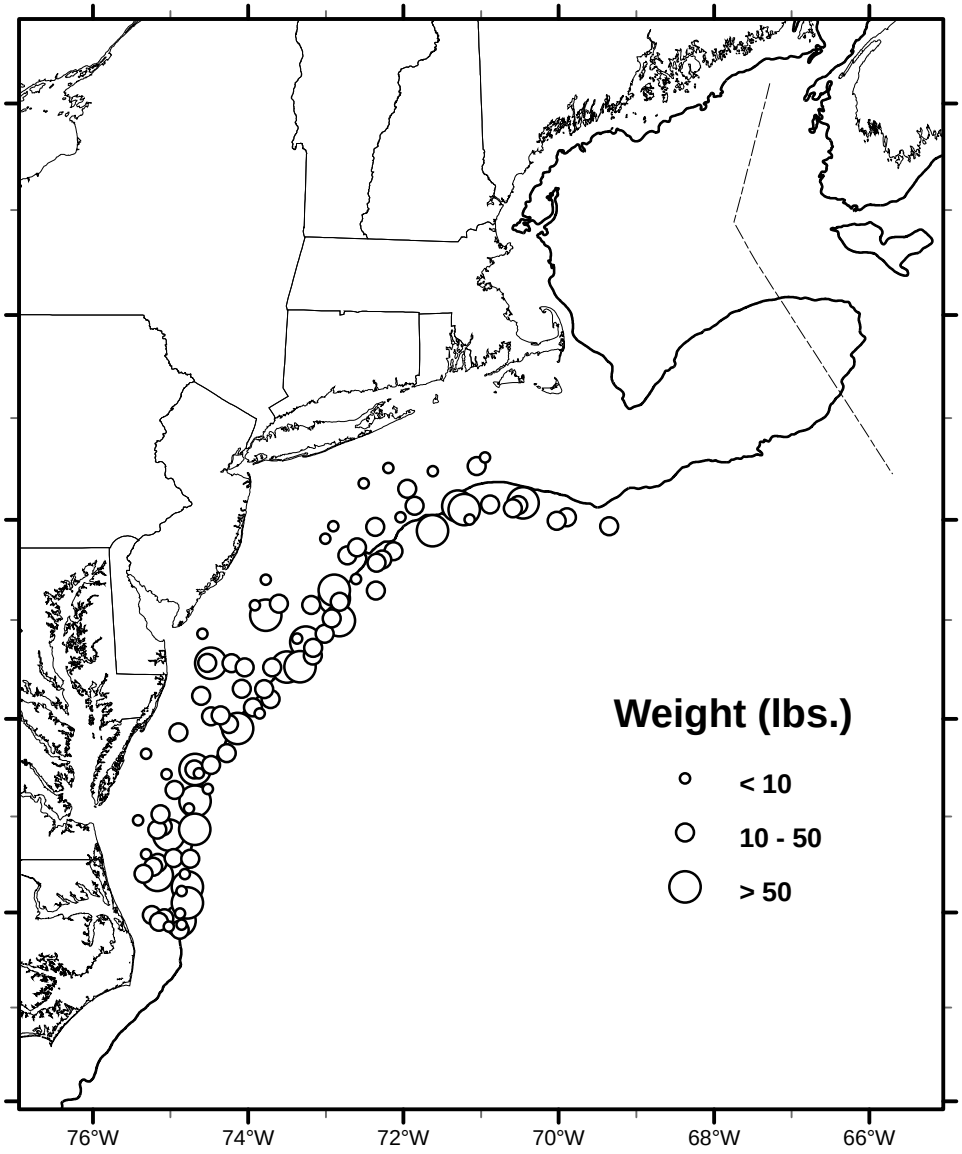
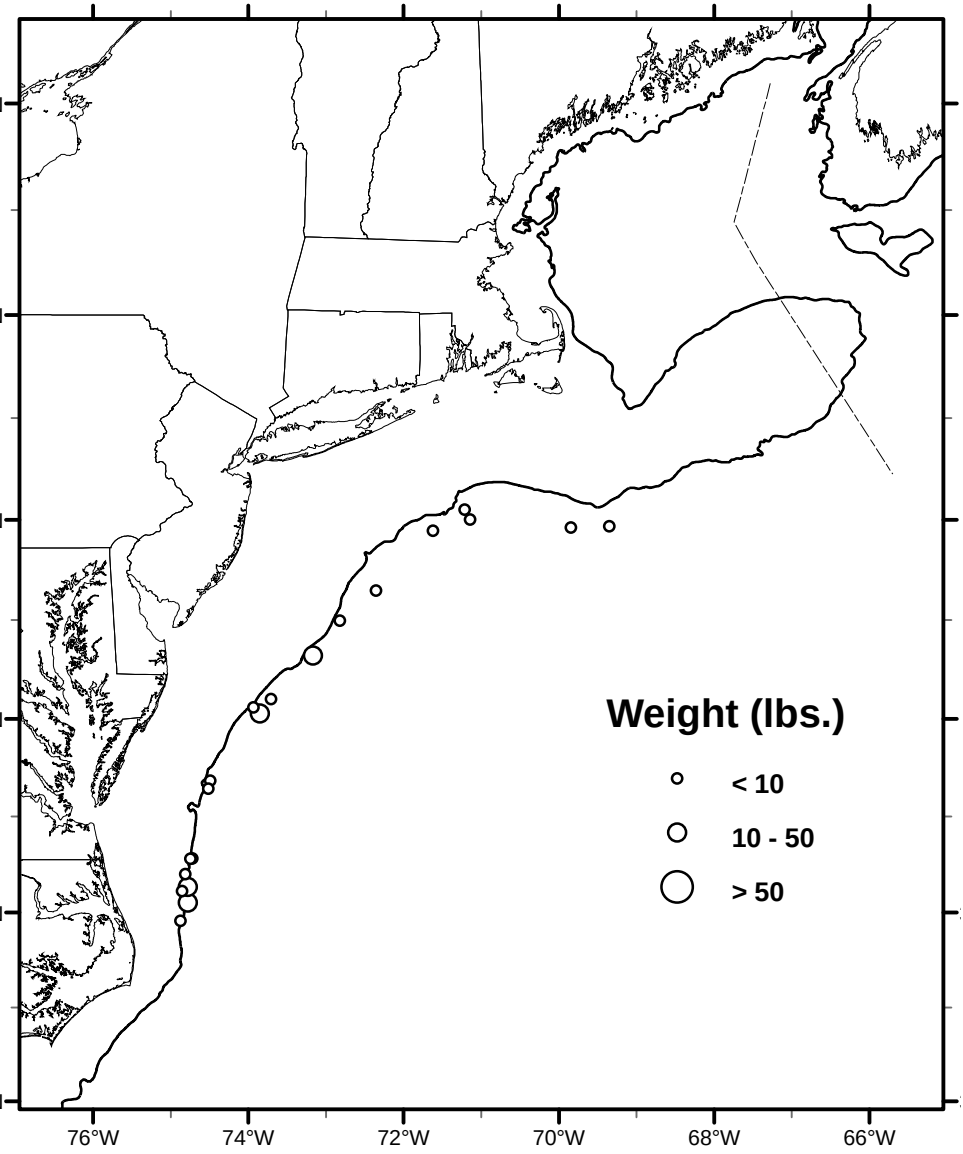
BUTTERFISH
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



AMERICAN LOBSTER
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



LOLIGO
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007



ILLEX
NOAA Fisheries Service
Bottom Trawl Survey
6 FEB - 2 MARCH 2007