

RESOURCE SURVEY REPORT  
Catch Summary  
NOAA Fisheries Service  
Northeast Fisheries Science Center  
Fall Bottom Trawl Survey  
Cape Hatteras - Gulf of Maine  
September 3 - November 8, 2008

**Submitted to:** NOAA, NEFSC

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**Date:** 2008



# Resource Survey Report

## Bottom Trawl Survey



Cape Hatteras – Gulf of Maine  
*September 3 - November 8 2008*  
NOAA FRV *Albatross IV*

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



First Fall Bottom Trawl Survey - 1963



Last Fall Bottom Trawl Survey - 2008



NOAA FRV *Albatross IV* celebrating 46 years of Bottom Trawl Surveys.



# RESOURCE SURVEY REPORT

## Catch Summary

NOAA Fisheries Service  
Northeast Fisheries Science Center

**Fall Bottom Trawl Survey**  
Cape Hatteras - Gulf of Maine  
September 3 - November 8, 2008

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 2008 fall bottom trawl survey conducted by the NOAA FRV *ALBATROSS IV*. Tows were made with a #36 Yankee otter trawl rigged with rollers, 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 with 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 with useful information about the distribution and relative abundance of species inhabiting the survey area (Cape Hatteras to the Gulf of Maine).

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 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

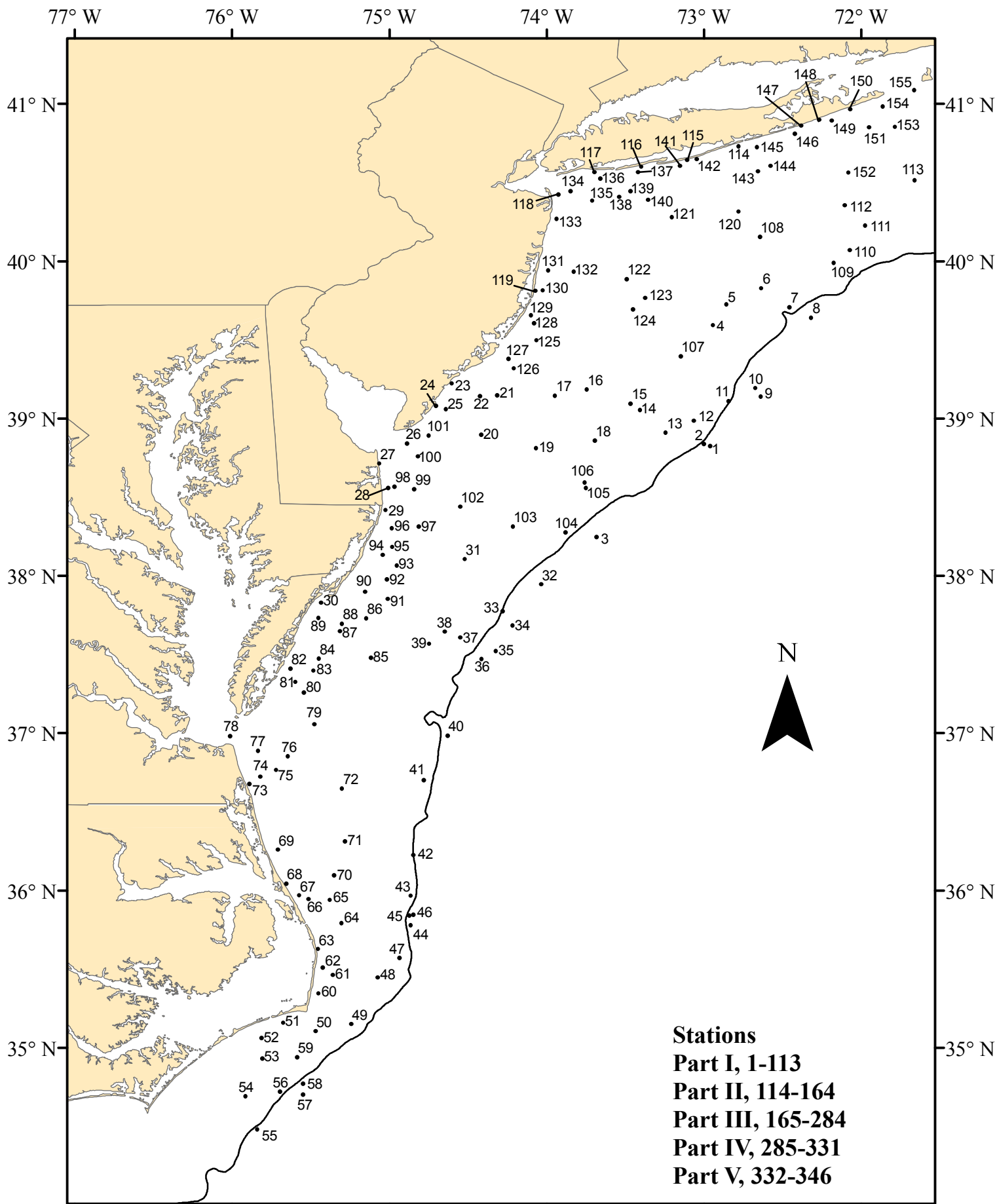


Figure 1. Trawl hauls made from NOAA FRV Albatross IV (08-03), during NOAA Fisheries Service, Northeast Fisheries Science Center fall bottom trawl survey, September 3 - November 8, 2008.

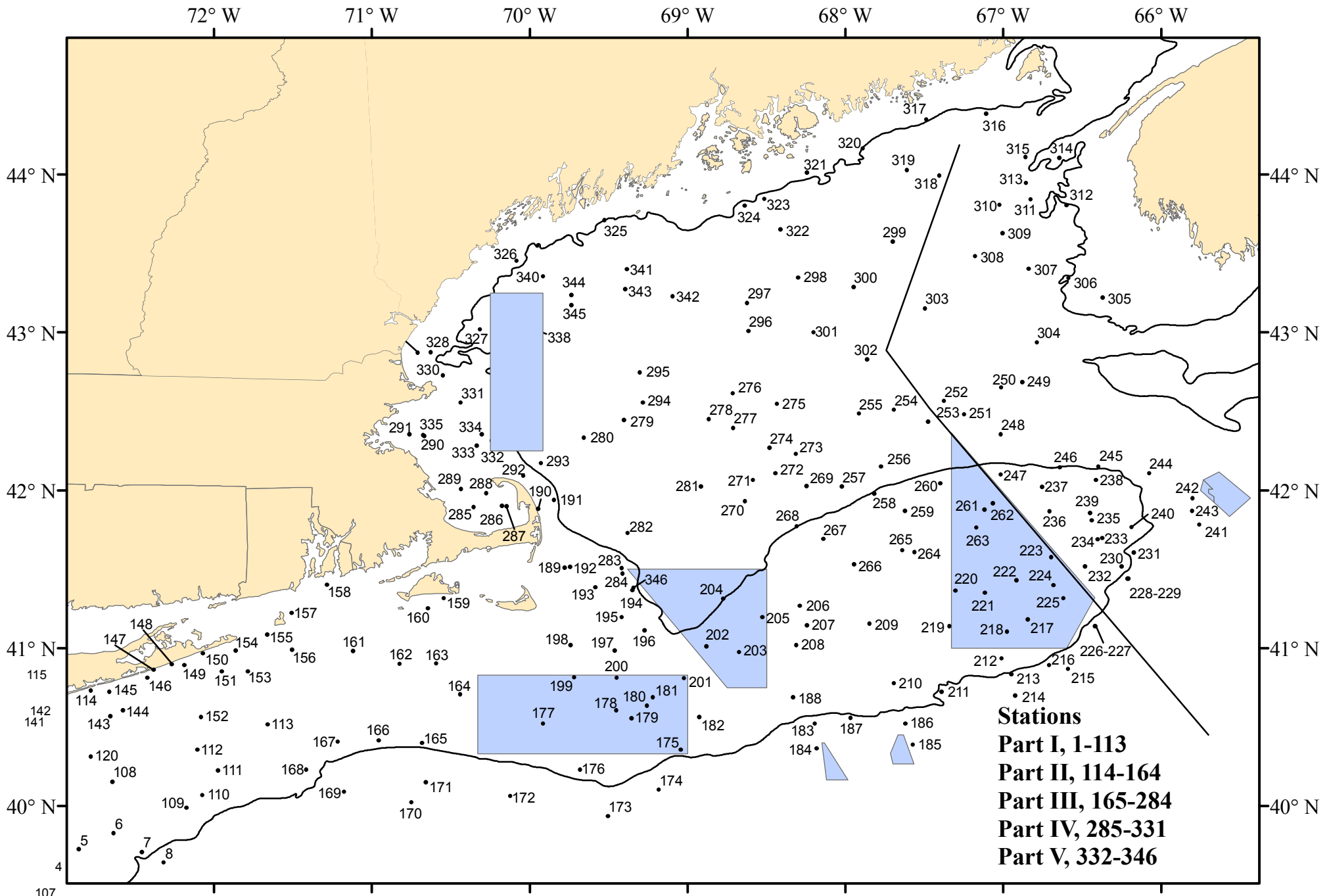


Figure 2. Trawl hauls made from NOAA FRV Albatross IV (08-03), during NOAA Fisheries Service, Northeast Fisheries Science Center fall bottom trawl survey, September 3 - November 8, 2008.

## 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 NOAA FRV *Albatross IV*.

### Full stomachs

This year during the first part of the cruise, one of the most interesting catches consisted of large *Illex* squid with bulging stomachs. The interesting thing was that when we examined the stomachs, they were full of chopped squid. We could not tell the species, but cannibalism may have been occurring.

### Crabby catches

Other biological highlights include the capture of a polka-dot cuskeel, *Otophidium omostigma*, and a small, red colored relative of the blue crab, *Portunis ordwayi*. Another interesting portunid catch was *Portunis spinicarpus*, which as the name suggests has a large spine on the carpus or "elbow" of the claws. This spine can be as long as the forward portion of the claw itself in mature males. We regularly catch at least seven different species of portunid crabs in the survey area. In addition, two crabs of the family Calappidae were captured. Often called shame-faced crabs, these animals have a flattened propodus which gives them the ability to completely cover their frontal region (or "face") when they draw their claws. The unique shape of the claws are also suited to a specific task. This family of crabs has the ability to use their claws like tin snips, and cut right up the spiral of snails, with one claw snipping and one claw turning the snail.

### Tagged yellowtail

While working just outside the southern border of Closed Area II (CA II), we picked up a University of Massachusetts, Dartmouth (SMAST) tagged yellowtail; it was one of 65 fish that we brought on board at station 212. We also caught a second SMAST tagged yellowtail on station 222 (inside CA II).

### More yellowtail

Two stations produced our largest yellowtail flounder catches during the standard survey. At station 230, we brought aboard 326 fish (256 pounds). Station 231 was our second largest catch at 253 fish that weighed in at 217 pounds. Both stations were on the Canadian side of the Hague line.

### Tasty treats

While processing the stomach contents of spiny dogfish caught at the lower eastern part of Hague Line (stations 229-231), we observed that stomachs were completely distended and filled with small (2-3 inch) sand lance. Yellowtail and fourspot flounder, longhorn sculpin, winter and little skate, and red and white hake were also gorging on these tasty tidbits.

### Halibut comeback?

As four different storms moved through the region, we took advantage of the intermittent calm seas to work our way around the eastern portion of the Gulf of Maine on the fourth leg. Over the last few years, our surveys have been catching more Atlantic halibut. This fall was no exception, as we caught 32 individuals (126 pounds total weight), the largest number on a

single survey since the late 1970s. Most of these fish were juveniles, but their increasing presence brings hope that we will one day be seeing more adults.

### **Supersized argentines**

At station 304, in Crowell Basin in Canadian waters, an impressive catch of 19 large Atlantic argentines ranging from 10 – 14 inches came aboard. Smaller Atlantic argentines are common on our surveys, but ones of this size are seen less often and lead to much excitement on deck.

### **Additional comparison work**

Leg five completed fifteen random bottom trawl stations before starting to work on an additional 95 bottom trawl comparison stations with the *HB Bigelow* which were arranged in a grid pattern (station and catch results are not included in this report except for the informal observations made below). Stations were concentrated in three locations: Jeffrey's Ledge, Closed Area I (CA I) and the Nantucket Light Ship (NLS) area.

We suffered severe gear damage on a number of stations on Jeffrey's Ledge but we did pick up a few large catches of countless spiny dogfish and in the upper region of Jeffrey, we found large concentrations of small pollock. During the comparison work on station 409, we brought in 402 pollock that weighed in at 61 pounds; they ranged in size from 9-17 inches and averaged around 13 inches. On station 412, we picked up 455 pollock that weighed 100 pounds; they ranged between 12-19 inches. (During the bottom trawl portion of the survey, on station 337, we picked up sixteen adult pollock that weighed in at 64 pounds. The largest one was 42 inches; the last time the survey caught a pollock that size was in 1991).

CA I produced large catches of haddock (the largest were between 300 to 400 pounds at stations 430, 443 and 444) and in the eastern part of the NLS, we picked up some large scup on station 482; 59 fish were over 12 inches.

### **Farewell to *Albatross IV***

After 46 years of service, the *Albatross IV* hauled in its last trawl on November 13, 2008 at 9:30 pm about 60 miles due south of Martha's Vineyard. During its working years, the vessel covered over 655,000 miles and completed over 41,000 stations. Six hundred and thirteen different species came across its deck. More than 500,000 fish stomachs were examined and 854,000 scale and otolith samples collected. The largest catch ever brought aboard was a 40,000 pound tow in 1990; the largest single species catch (by weight) was 27,000 pounds of spiny dogfish and (by number) 253,571 bay anchovies. Over 2400 scientists contributed more than 83,000 staff days at sea. She has been a sea worthy workhorse and has served and protected all who have sailed upon her well. She was decommissioned on November 20 and sailed out of Woods Hole for the last time on December 5, 2008.

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NOAA Fisheries Service FALL BOTTOM TRAWL SURVEY  
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
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0001	3-Sep	1019	3849.4	7257.6	X26401.0	Y42717.3	029	129.6	48.5
0002	3-Sep	1235	3850.2	7259.9	X26415.3	Y42724.4	054	63.4	54.3
0003	3-Sep	1914	3814.7	7341.0	X26628.1	Y42344.7	066	75.7	55.7
0004	4-Sep	0639	3935.4	7256.4	X26422.1	Y43158.6	326	33.6	48.0
0005	4-Sep	0834	3943.5	7251.4	X26393.3	Y43233.1	068	38.3	47.5
0006	4-Sep	1030	3949.5	7238.2	X26302.0	Y43283.2	138	31.4	46.7
0007	4-Sep	1235	3942.4	7227.3	X26220.7	Y43213.2	107	49.5	47.4
0008	4-Sep	1422	3938.4	7219.0	X26161.5	Y43173.8	206	61.5	53.3
0009	4-Sep	1905	3908.4	7238.2	X26286.1	Y42901.9	061	144.1	48.2
0010	4-Sep	2049	3911.5	7240.3	X26300.3	Y42930.9	232	71.1	55.8
0011	4-Sep	2244	3906.5	7250.5	X26364.2	Y42882.7	190	51.1	53.7
0012	5-Sep	0103	3859.0	7303.8	X26444.0	Y42808.5	183	41.8	49.7
0013	5-Sep	0323	3854.5	7314.5	X26507.7	Y42761.1	078	40.5	49.6
0014	5-Sep	0536	3903.2	7324.4	X26577.6	Y42845.4	320	30.3	48.3
0015	5-Sep	0707	3905.6	7328.0	X26603.1	Y42868.6	295	29.0	47.4
0016	5-Sep	0906	3911.0	7344.6	X26717.2	Y42920.9	255	20.5	47.7
0017	5-Sep	1103	3908.6	7356.7	X26790.6	Y42894.1	154	22.7	48.0
0018	5-Sep	1359	3851.4	7341.6	X26671.5	Y42720.2	245	25.7	46.7
0019	5-Sep	1705	3848.6	7404.0	X26802.5	Y42679.9	285	24.6	46.7
0020	5-Sep	1928	3853.7	7424.9	X26935.8	Y42725.2	041	14.5	50.2
0021	5-Sep	2151	3908.8	7418.8	X26929.6	Y42890.3	271	12.3	59.6
0022	5-Sep	2340	3908.5	7425.4	X26969.7	Y42885.6	034	12.3	57.8
0023	6-Sep	0143	3913.3	7436.2	X27046.7	Y42935.6	213	5.2	73.9
0024	6-Sep	0350	3904.8	7442.2	X27063.2	Y42839.2	207	5.5	72.8
0025	6-Sep	0524	3903.5	7438.4	X27037.0	Y42826.2	193	6.6	73.0
0026	6-Sep	0745	3850.5	7453.2	X27093.3	Y42673.6	266	5.7	72.9
0027	6-Sep	0948	3842.7	7503.8	X27133.9	Y42579.1	186	5.7	74.2
0028	6-Sep	2342	3833.5	7500.4	X27094.4	Y42476.8	144	6.8	72.5
0029	7-Sep	0129	3825.0	7501.3	X27080.9	Y42380.3	209	6.8	74.2
0030	7-Sep	0720	3749.7	7526.0	X27131.0	Y41950.0	242	4.6	75.0
0031	7-Sep	1243	3806.2	7431.1	X26887.6	Y42203.4	108	23.5	53.9
0032	7-Sep	1556	3756.6	7402.0	X26722.5	Y42135.5	193	72.5	56.2
0033	7-Sep	1822	3746.4	7416.8	X26786.2	Y42009.5	137	55.2	58.5
0034	7-Sep	2007	3741.0	7412.9	X26760.7	Y41958.8	210	116.5	50.3
0035	7-Sep	2239	3731.2	7419.3	X26781.0	Y41846.4	026	170.1	48.9
0036	8-Sep	0139	3728.1	7424.7	X26803.5	Y41805.3	024	66.7	52.4
0037	8-Sep	0337	3736.4	7432.9	X26853.3	Y41879.5	115	34.2	59.7
0038	8-Sep	0517	3738.7	7438.8	X26885.1	Y41895.0	142	30.1	52.7
0039	8-Sep	0700	3733.9	7444.7	X26907.2	Y41834.8	167	29.5	53.3
0040	8-Sep	1221	3659.0	7437.8	X26830.1	Y41475.4	057	79.3	43.2
0041	8-Sep	1533	3641.9	7446.8	X26850.2	Y41278.7	182	35.3	56.5
0042	8-Sep	1859	3613.4	7450.8	X26836.3	Y40979.2	209	46.8	57.3
0043	8-Sep	2113	3557.8	7451.8	X26825.0	Y40822.2	195	50.0	57.5
0044	8-Sep	2337	3550.6	7450.8	X26814.8	Y40756.0	002	132.3	50.9
0045	9-Sep	0103	3550.3	7452.2	X26819.7	Y40749.4	018	66.7	55.5
0046	9-Sep	0314	3546.7	7451.8	X26814.9	Y40715.9	313	67.3	51.4
0047	9-Sep	0554	3534.2	7456.1	X26820.1	Y40585.7	214	24.9	79.8
0048	9-Sep	0756	3526.7	7504.4	X26843.8	Y40488.2	191	17.2	79.3

CTD Cast deployed from NOAA FSV *Henry B. Bigelow*



NOAA Fisheries Service FALL BOTTOM TRAWL SURVEY  
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
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0049	9-Sep	1101	3508.9	7514.5	X26864.0	Y40291.7	249	21.9	74.9
0050	9-Sep	1252	3506.2	7528.1	X26908.8	Y40215.3	275	9.6	78.6
0051	9-Sep	1438	3509.4	7540.4	X26954.6	Y40197.3	241	9.6	80.7
0052	9-Sep	1607	3503.6	7548.6	X26976.6	Y40112.5	166	11.8	78.8
0053	9-Sep	1754	3455.8	7548.4	X26967.5	Y40043.4	193	13.4	78.3
0054	9-Sep	2015	3441.5	7554.8	X26973.8	Y39893.5	171	20.0	76.1
0055	9-Sep	2234	3428.7	7550.3	X26946.7	Y39812.3	023	59.6	67.7
0056	10-Sep	0057	3443.2	7541.7	X26932.6	Y39964.1	100	30.1	75.1
0057	10-Sep	0322	3442.1	7532.9	X26902.4	Y39992.3	048	143.5	46.7
0058	10-Sep	0519	3446.2	7532.9	X26906.2	Y40025.4	009	63.7	65.7
0059	10-Sep	0706	3456.3	7535.1	X26923.3	Y40101.5	063	21.6	77.7
0060	10-Sep	1051	3520.6	7526.9	X26918.9	Y40351.2	013	7.7	80.0
0061	10-Sep	1309	3527.6	7521.6	X26907.0	Y40436.4	020	11.5	79.6
0062	10-Sep	1441	3530.5	7525.4	X26924.0	Y40450.9	016	8.2	79.5
0063	10-Sep	1620	3537.5	7527.1	X26937.6	Y40512.9	350	7.1	78.8
0064	10-Sep	1807	3547.5	7518.1	X26915.4	Y40640.2	343	17.8	75.1
0065	10-Sep	1953	3556.2	7522.6	X26942.1	Y40714.5	276	11.5	73.0
0066	10-Sep	2134	3556.6	7530.8	X26973.4	Y40694.2	300	11.8	73.1
0067	10-Sep	2320	3558.0	7534.3	X26988.5	Y40698.1	323	10.7	73.3
0068	11-Sep	0122	3602.6	7539.3	X27013.1	Y40731.4	320	6.6	75.8
0069	11-Sep	0315	3615.4	7542.5	X27042.8	Y40860.1	357	11.2	74.7
0070	11-Sep	0620	3605.8	7521.0	X26947.1	Y40816.5	023	17.2	71.4
0071	11-Sep	0828	3618.7	7516.9	X26946.8	Y40962.2	351	17.5	61.9
0072	11-Sep	1127	3638.8	7517.9	X26977.3	Y41173.6	264	17.8	58.1
0073	11-Sep	1453	3640.5	7553.4	X27123.7	Y41112.9	298	5.5	75.2
0074	11-Sep	1614	3643.3	7549.2	X27111.5	Y41153.6	068	8.2	74.7
0075	11-Sep	1750	3645.8	7543.1	X27091.1	Y41194.6	031	9.3	73.8
0076	11-Sep	1956	3651.1	7538.5	X27080.9	Y41263.8	274	10.7	71.7
0077	11-Sep	2144	3653.2	7550.0	X27131.3	Y41263.8	020	6.6	75.0
0078	12-Sep	0008	3658.8	7600.6	X27184.8	Y41308.0	319	6.8	75.3
0079	12-Sep	0353	3703.3	7528.6	X27058.9	Y41419.8	347	15.3	62.0
0080	12-Sep	0554	3715.3	7532.5	X27096.0	Y41548.3	351	9.8	71.8
0081	12-Sep	0923	3719.4	7535.7	X27117.3	Y41588.5	348	7.1	74.4
0082	12-Sep	1046	3724.5	7537.7	X27135.8	Y41644.3	020	5.2	74.7
0083	12-Sep	1238	3723.7	7528.8	X27094.7	Y41649.8	037	10.4	72.0
0084	12-Sep	1412	3728.4	7526.9	X27094.3	Y41705.7	358	9.6	73.2
0085	12-Sep	1656	3728.6	7506.9	X27003.5	Y41740.9	344	15.9	56.6
0086	12-Sep	1928	3743.8	7508.8	X27038.0	Y41906.7	239	14.2	55.7
0087	12-Sep	2118	3738.7	7518.8	X27076.1	Y41835.6	032	13.1	70.0
0088	12-Sep	2309	3741.6	7518.0	X27077.9	Y41869.4	243	9.3	70.2
0089	13-Sep	0205	3743.9	7527.0	X27124.4	Y41882.5	053	7.4	73.6
0090	13-Sep	0540	3753.7	7509.1	X27058.2	Y42018.5	072	10.7	68.3
0091	13-Sep	0829	3751.1	7500.6	X27011.8	Y42000.7	012	13.4	53.9
0092	13-Sep	0953	3758.6	7500.9	X27026.6	Y42083.2	028	8.2	59.9
0093	13-Sep	1134	3803.9	7457.0	X27017.0	Y42147.3	315	11.2	57.6
0094	13-Sep	1309	3807.8	7502.5	X27052.2	Y42185.2	345	10.1	71.4
0095	13-Sep	1438	3810.8	7458.8	X27039.4	Y42223.1	358	10.7	66.0
0096	13-Sep	1654	3818.0	7459.0	X27054.4	Y42303.9	355	10.7	70.7

CTD Cast deployed from NOAA FSV *Henry B. Bigelow*

NOAA Fisheries Service FALL BOTTOM TRAWL SURVEY  
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
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0097	13-Sep	1852	3818.7	7448.8	X27002.1	Y42321.2	020	11.5	60.6
0098	13-Sep	2127	3834.0	7458.0	X27082.8	Y42484.6	093	8.5	71.9
0099	13-Sep	2301	3833.0	7450.5	X27039.6	Y42479.5	009	12.3	57.5
0100	14-Sep	0043	3845.4	7449.1	X27058.5	Y42618.9	025	8.5	68.7
0101	14-Sep	0210	3853.4	7444.8	X27052.0	Y42711.2	037	7.7	70.0
0102	14-Sep	0547	3826.3	7432.9	X26930.3	Y42420.4	123	18.3	49.4
0103	14-Sep	0804	3818.7	7412.7	X26807.3	Y42356.8	103	30.9	53.6
0104	14-Sep	1015	3816.5	7352.7	X26694.7	Y42352.4	015	41.0	60.2
0105	14-Sep	1241	3833.4	7345.0	X26669.8	Y42532.8	003	32.5	47.9
0106	14-Sep	1400	3835.5	7345.5	X26675.1	Y42554.6	022	32.0	47.7
0107	14-Sep	1943	3923.7	7308.8	X26496.5	Y43048.1	036	34.2	47.0
0108	15-Sep	0108	4009.1	7238.5	X26320.4	Y43461.2	111	30.6	46.4
0109	15-Sep	0433	3959.2	7210.5	X26101.8	Y43353.4	214	45.7	48.1
0110	15-Sep	0709	4004.1	7204.4	X26056.9	Y43391.0	229	40.5	48.3
0111	15-Sep	0936	4013.5	7158.4	X26012.3	Y43466.2	321	34.4	46.9
0112	15-Sep	1157	4021.2	7206.3	X26076.7	Y43538.3	063	33.4	46.5
0113	15-Sep	1440	4030.9	7139.6	X25864.8	Y43591.1	044	40.5	46.1
0114	20-Sep	0015	4043.8	7246.7	X26436.8	Y43776.1	237	10.9	67.0
0115	20-Sep	0226	4038.5	7306.3	X26589.9	Y43754.9	259	6.3	67.4
0116	20-Sep	0423	4036.0	7323.9	X26727.8	Y43752.6	275	5.5	67.4
0117	20-Sep	0632	4033.9	7341.7	X26865.6	Y43754.1	286	5.7	67.0
0118	20-Sep	0844	4025.4	7355.5	X26951.0	Y43685.3	187	9.3	66.7
0119	20-Sep	1445	3948.6	7404.2	X26920.8	Y43313.5	187	5.7	68.7
0120	20-Sep	2225	4018.8	7246.7	X26395.9	Y43554.7	262	26.2	49.9
0121	21-Sep	0118	4016.8	7312.1	X26593.1	Y43560.2	214	20.2	52.5
0122	21-Sep	0433	3953.1	7329.4	X26681.2	Y43343.6	144	20.2	52.3
0123	21-Sep	0630	3945.9	7322.3	X26618.2	Y43269.1	253	20.2	48.8
0124	21-Sep	0756	3941.5	7327.0	X26645.0	Y43227.6	132	18.0	48.8
0125	21-Sep	1131	3929.8	7403.8	X26876.5	Y43116.0	237	12.0	68.3
0126	21-Sep	1339	3919.1	7412.5	X26910.8	Y43002.0	202	11.2	68.8
0127	21-Sep	1525	3922.7	7414.5	X26931.4	Y43041.3	045	8.5	69.1
0128	21-Sep	1748	3936.3	7404.7	X26896.5	Y43185.0	015	9.0	68.7
0129	21-Sep	1916	3939.3	7405.9	X26910.8	Y43216.3	043	7.9	68.8
0130	21-Sep	2109	3948.7	7401.4	X26901.2	Y43313.7	035	9.3	68.3
0131	21-Sep	2256	3956.5	7359.4	X26905.4	Y43393.4	090	11.2	68.0
0132	22-Sep	0039	3956.0	7349.5	X26833.4	Y43383.2	345	14.5	60.1
0133	22-Sep	0327	4016.1	7356.2	X26931.0	Y43591.7	339	9.8	67.9
0134	22-Sep	0530	4026.7	7350.8	X26918.3	Y43693.3	115	15.0	63.2
0135	22-Sep	0707	4023.0	7342.6	X26844.5	Y43648.2	150	13.1	60.7
0136	22-Sep	0909	4031.4	7339.5	X26841.4	Y43727.4	114	9.3	66.6
0137	22-Sep	1119	4033.8	7325.1	X26732.2	Y43734.0	093	9.3	67.4
0138	22-Sep	1350	4024.5	7332.4	X26768.3	Y43652.8	112	13.7	66.1
0139	22-Sep	1532	4026.7	7328.0	X26738.8	Y43669.6	079	14.2	66.7
0140	22-Sep	1719	4023.2	7321.3	X26678.3	Y43629.8	028	16.1	66.3
0141	22-Sep	1943	4036.3	7309.0	X26607.2	Y43737.6	083	10.9	67.2
0142	22-Sep	2113	4038.8	7302.7	X26560.1	Y43752.4	067	7.7	66.7
0143	23-Sep	0017	4034.1	7239.4	X26359.1	Y43683.4	133	21.1	53.6
0144	23-Sep	0201	4036.2	7234.6	X26322.5	Y43696.1	272	21.6	55.4

CTD Cast deployed from NOAA FSV *Henry B. Bigelow*

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0145	23-Sep	0343	4043.4	7239.8	X26377.5	Y43764.0	072	15.0	65.0
0146	23-Sep	0549	4048.6	7225.3	X26263.5	Y43788.6	088	13.7	65.1
0147	23-Sep	0709	4051.6	7222.9	X26248.1	Y43810.6	060	6.0	65.0
0148	23-Sep	0902	4053.8	7215.9	X26192.2	Y43818.7	057	8.5	65.0
0149	23-Sep	1019	4053.5	7211.3	X26151.3	Y43809.9	060	13.7	65.2
0150	23-Sep	1154	4057.9	7204.2	X26097.1	Y43835.2	064	8.5	65.0
0151	23-Sep	1641	4051.0	7157.0	X26024.1	Y43771.1	260	21.1	60.3
0152	23-Sep	1940	4033.7	7204.8	X26072.4	Y43641.0	085	29.8	49.2
0153	23-Sep	2308	4051.1	7147.0	X25938.0	Y43758.9	302	25.4	54.0
0154	24-Sep	0123	4059.0	7151.7	X25989.4	Y43826.1	062	13.9	65.2
0155	24-Sep	0333	4105.2	7139.7	X25893.3	Y43856.5	081	20.0	65.6
0156	24-Sep	0533	4059.3	7130.4	X25802.2	Y43799.8	004	26.2	53.6
0157	24-Sep	0758	4113.3	7130.5	X25826.8	Y43903.1	312	17.2	64.8
0158	24-Sep	1039	4124.0	7117.0	X25731.8	Y43958.5	134	15.0	65.6
0159	24-Sep	1514	4118.8	7032.5	X25316.5	Y43859.8	235	11.5	64.1
0160	24-Sep	1652	4115.0	7038.7	X25362.8	Y43842.3	218	14.8	62.7
0161	24-Sep	2027	4058.8	7107.0	X25597.3	Y43766.1	115	26.5	54.7
0162	24-Sep	2317	4053.8	7049.4	X25445.3	Y43709.0	085	27.9	53.3
0163	25-Sep	0136	4054.1	7035.4	X25330.5	Y43694.8	161	28.4	52.8
0164	25-Sep	0444	4042.4	7026.3	X25286.6	Y43603.1	132	28.7	54.9
0165	29-Sep	2134	4023.9	7040.9	X25430.0	Y43483.6	250	46.5	51.0
0166	30-Sep	0025	4024.7	7057.3	X25542.4	Y43503.7	090	46.5	51.5
0167	30-Sep	0515	4024.4	7112.9	X25657.8	Y43514.6	262	44.3	50.4
0168	30-Sep	0717	4013.9	7124.9	X25757.8	Y43442.2	139	47.3	50.6
0169	30-Sep	0945	4005.3	7110.4	X25664.5	Y43364.2	041	93.0	53.6
0170	30-Sep	1241	4001.3	7044.8	X25506.6	Y43317.1	100	119.8	50.7
0171	30-Sep	1505	4008.9	7039.5	X25456.3	Y43371.3	106	66.7	54.6
0172	30-Sep	1825	4003.7	7007.3	X25299.7	Y43313.6	106	87.5	53.8
0173	30-Sep	2212	3956.0	6930.1	W14091.2	Y43241.5	271	115.6	49.8
0174	1-Oct	0139	4006.1	6910.9	W13964.9	Y43300.5	025	67.8	53.5
0175	1-Oct	0412	4021.3	6902.6	W13872.4	Y43395.0	263	48.1	52.0
0176	1-Oct	0743	4013.7	6940.8	W14088.1	Y43368.2	335	44.3	50.6
0177	1-Oct	1026	4031.2	6954.8	W14102.3	Y43497.8	076	36.1	52.0
0178	1-Oct	1324	4036.3	6927.1	W13940.0	Y43509.7	105	28.4	59.1
0179	1-Oct	1518	4033.3	6921.2	W13921.1	Y43485.6	045	31.4	58.8
0180	1-Oct	1705	4038.1	6915.3	W13873.9	Y43511.7	077	31.7	56.2
0181	1-Oct	1837	4041.3	6913.1	W13850.4	Y43530.6	106	32.3	56.3
0182	1-Oct	2126	4033.7	6855.5	W13792.2	Y43469.1	096	38.3	63.0
0183	2-Oct	0127	4031.3	6811.5	W13595.0	Y43425.4	094	58.8	47.4
0184	2-Oct	0353	4021.8	6810.9	W13629.0	Y43368.2	210	89.9	47.8
0185	2-Oct	0824	4023.2	6734.3	W13463.9	Y43358.0	248	116.5	50.1
0186	2-Oct	1026	4031.2	6737.2	W13444.6	Y43405.4	260	73.0	52.1
0187	2-Oct	1316	4033.5	6758.0	W13526.1	Y43430.1	311	53.3	51.5
0188	2-Oct	1630	4041.3	6819.8	W13593.6	Y43490.3	226	36.6	56.0
0189	6-Oct	1803	4130.6	6946.7	W13827.5	Y43874.5	331	12.0	55.9
0190	6-Oct	2237	4152.9	6956.8	W13783.6	Y44022.0	346	6.6	57.3
0191	7-Oct	0118	4156.3	6950.7	W13732.1	Y44033.3	347	39.6	45.8
0192	7-Oct	0505	4130.8	6944.7	W13815.4	Y43872.9	002	12.6	55.9

CTD Cast deployed from NOAA FSV *Henry B. Bigelow*

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0193	7-Oct	0724	4122.9	6934.9	W13796.2	Y43813.0	302	15.3	55.8
0194	7-Oct	1005	4122.0	6921.0	W13725.8	Y43790.8	194	29.3	48.6
0195	7-Oct	1159	4111.6	6924.9	W13790.5	Y43732.2	178	23.8	53.4
0196	7-Oct	1452	4106.7	6916.2	W13766.1	Y43692.3	237	29.8	56.3
0197	7-Oct	1654	4059.0	6927.7	W13857.0	Y43656.1	248	23.2	55.5
0198	7-Oct	1903	4101.0	6944.4	W13937.7	Y43686.0	210	23.0	56.6
0199	7-Oct	2046	4048.8	6943.0	W13977.0	Y43604.8	124	19.4	59.1
0200	7-Oct	2306	4048.7	6926.8	W13892.4	Y43589.5	135	22.7	58.0
0201	8-Oct	0312	4048.5	6901.2	W13763.6	Y43565.9	078	39.9	61.7
0202	8-Oct	0601	4100.6	6852.8	W13672.5	Y43632.6	030	38.0	59.8
0203	8-Oct	0752	4058.5	6840.3	W13620.1	Y43608.9	301	33.6	60.4
0204	8-Oct	1114	4118.6	6846.4	W13562.7	Y43733.6	110	48.7	43.6
0205	8-Oct	1415	4111.6	6831.6	W13521.6	Y43678.2	134	31.2	59.8
0206	8-Oct	1709	4115.9	6817.2	W13433.9	Y43689.7	046	24.6	61.4
0207	8-Oct	1900	4108.6	6814.6	W13454.2	Y43645.7	145	20.8	61.6
0208	8-Oct	2041	4101.2	6818.6	W13505.2	Y43606.4	084	24.9	60.3
0209	9-Oct	0049	4109.3	6750.7	W13342.5	Y43629.3	074	21.6	61.8
0210	9-Oct	0402	4046.5	6741.5	W13400.7	Y43494.9	093	39.1	51.5
0211	9-Oct	0603	4043.3	6723.4	W13337.0	Y43465.7	052	51.4	50.1
0212	9-Oct	0846	4056.0	6700.6	W13190.3	Y43520.1	152	45.4	50.7
0213	9-Oct	1025	4049.9	6656.8	W13201.4	Y43485.5	352	50.9	49.8
0214	9-Oct	1252	4041.8	6655.5	W13230.2	Y43441.4	044	94.1	50.5
0215	9-Oct	1722	4052.0	6635.2	W13109.3	Y43483.7	207	184.5	42.9
0216	9-Oct	1921	4053.4	6642.4	W13130.4	Y43495.3	345	53.9	53.5
0217	9-Oct	2223	4110.9	6650.6	W13084.4	Y43591.8	199	38.0	51.2
0218	10-Oct	0034	4106.2	6658.5	W13136.9	Y43572.6	294	37.2	51.7
0219	10-Oct	0303	4108.3	6720.4	W13216.6	Y43599.7	325	30.9	56.6
0220	10-Oct	0525	4121.8	6718.1	W13144.9	Y43669.7	231	24.6	60.0
0221	10-Oct	0712	4121.0	6706.9	W13103.1	Y43656.5	043	32.3	57.7
0222	10-Oct	0852	4125.7	6655.0	W13033.1	Y43671.3	043	36.9	56.3
0223	10-Oct	1145	4134.6	6641.7	W12939.5	Y43705.1	173	40.5	57.7
0224	10-Oct	1345	4123.8	6640.9	W12987.7	Y43650.5	175	44.3	51.7
0225	10-Oct	1509	4118.9	6637.0	W12995.9	Y43623.0	149	45.9	49.9
0226	10-Oct	1718	4108.3	6625.0	W12999.4	Y43561.4	040	59.3	52.5
0227	10-Oct	1834	4108.4	6625.0	W12999.2	Y43561.5	072	59.6	
0228	10-Oct	2107	4126.4	6612.8	W12872.3	Y43642.7	332	56.6	50.1
0229	10-Oct	2235	4126.4	6612.4	W12871.1	Y43642.5	331	57.1	
0230	11-Oct	0029	4131.0	6614.9	W12858.4	Y43666.7	034	48.9	48.9
0231	11-Oct	0250	4136.3	6610.4	W12816.9	Y43689.0	250	51.1	48.6
0232	11-Oct	0456	4131.0	6628.9	W12908.7	Y43677.4	019	48.9	49.8
0233	11-Oct	0658	4141.7	6622.2	W12832.9	Y43724.4	217	45.1	51.7
0234	11-Oct	0841	4141.2	6624.0	W12841.8	Y43723.5	356	43.7	52.2
0235	11-Oct	1030	4148.5	6626.4	W12814.5	Y43760.3	300	42.9	53.2
0236	11-Oct	1318	4151.9	6642.2	W12856.4	Y43790.4	351	37.5	56.8
0237	11-Oct	1511	4201.2	6645.1	W12819.7	Y43838.1	074	38.8	53.6
0238	11-Oct	1728	4203.8	6624.8	W12731.2	Y43831.5	177	46.5	47.5
0239	11-Oct	1936	4151.4	6627.0	W12802.4	Y43774.5	116	44.3	51.4
0240	11-Oct	2136	4145.8	6611.2	W12773.5	Y43735.1	090	47.6	49.9

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0241	12-Oct	0129	4146.8	6545.3	W12682.3	Y43719.3	349	85.0	49.6
0242	12-Oct	0435	4156.8	6547.9	W12641.3	Y43767.6	154	103.9	45.3
0243	12-Oct	0634	4152.1	6548.1	W12665.0	Y43746.1	312	75.5	46.2
0244	12-Oct	0933	4206.3	6604.5	W12648.2	Y43824.8	297	85.8	45.5
0245	12-Oct	1230	4208.9	6623.8	W12701.4	Y43854.3	260	93.2	46.3
0246	12-Oct	1440	4208.7	6638.5	W12756.2	Y43867.0	268	53.6	46.0
0247	12-Oct	1711	4205.8	6700.8	W12856.2	Y43875.5	351	35.0	48.2
0248	12-Oct	1945	4221.2	6700.8	W12774.0	Y43948.5	017	183.2	45.2
0249	12-Oct	2314	4241.1	6652.8	W12632.2	Y44030.4	241	114.0	45.9
0250	13-Oct	0142	4238.9	6700.8	W12675.2	Y44029.6	223	156.4	45.4
0251	13-Oct	0422	4228.8	6714.8	W12788.1	Y43999.1	289	183.2	45.2
0252	13-Oct	0734	4233.8	6722.4	W12791.1	Y44031.3	204	158.8	45.3
0253	13-Oct	0946	4226.0	6728.6	W12860.9	Y44001.8	200	170.6	45.2
0254	13-Oct	1224	4230.5	6741.5	W12890.7	Y44038.8	255	124.1	45.0
0255	13-Oct	1457	4229.0	6754.8	W12959.1	Y44047.8	169	117.6	45.5
0256	13-Oct	1806	4208.9	6746.5	W13032.1	Y43939.3	232	112.1	45.6
0257	13-Oct	2033	4201.3	6801.2	W13138.6	Y43918.1	084	108.3	45.1
0258	13-Oct	2226	4158.7	6749.0	W13096.6	Y43890.9	084	43.7	50.7
0259	14-Oct	0032	4152.1	6737.3	W13078.9	Y43844.8	067	21.1	59.8
0260	14-Oct	0321	4202.5	6723.9	W12968.0	Y43883.0	216	26.0	46.9
0261	14-Oct	0636	4152.6	6707.0	W12949.3	Y43817.2	109	30.3	56.9
0262	14-Oct	0814	4155.0	6703.9	W12924.9	Y43825.7	150	30.6	58.2
0263	14-Oct	1051	4145.7	6710.2	W12997.2	Y43785.6	311	27.3	59.1
0264	14-Oct	1420	4136.5	6733.7	W13140.8	Y43760.6	355	24.6	60.7
0265	14-Oct	1630	4137.1	6738.3	W13158.1	Y43768.1	326	20.0	60.1
0266	14-Oct	1922	4131.8	6756.7	W13265.2	Y43757.7	332	18.9	60.8
0267	14-Oct	2100	4141.3	6808.4	W13272.9	Y43821.0	320	17.8	60.0
0268	14-Oct	2301	4146.1	6818.5	W13296.8	Y43857.7	065	53.0	44.9
0269	15-Oct	0147	4201.6	6814.7	W13200.5	Y43934.9	029	114.6	45.5
0270	15-Oct	0500	4155.8	6838.0	W13344.2	Y43932.5	010	92.1	43.2
0271	15-Oct	0646	4203.8	6835.0	W13287.6	Y43971.6	057	95.7	42.3
0272	15-Oct	0856	4206.4	6826.6	W13232.9	Y43974.6	024	102.8	43.2
0273	15-Oct	1115	4213.7	6818.7	W13155.3	Y44002.4	273	109.4	45.7
0274	15-Oct	1335	4216.0	6828.8	W13191.9	Y44026.8	006	97.6	43.1
0275	15-Oct	1629	4232.7	6825.9	W13085.7	Y44106.2	286	114.3	45.1
0276	15-Oct	1851	4236.7	6842.7	W13147.0	Y44149.2	177	105.5	44.2
0277	15-Oct	2123	4223.7	6842.6	W13219.8	Y44084.1	287	112.1	44.0
0278	15-Oct	2320	4226.9	6851.8	W13249.5	Y44113.3	285	121.9	44.9
0279	16-Oct	0253	4226.6	6924.2	W13426.3	Y44159.5	243	137.5	44.2
0280	16-Oct	0537	4219.9	6939.4	W13548.4	Y44147.4	113	134.2	43.9
0281	16-Oct	1006	4201.4	6854.9	W13401.6	Y43984.0	229	72.7	41.4
0282	16-Oct	1401	4143.7	6922.8	W13636.7	Y43921.2	207	93.2	42.3
0283	16-Oct	1904	4130.4	6924.9	W13709.4	Y43846.1	322	33.4	46.5
0284	16-Oct	2044	4128.2	6924.6	W13717.1	Y43832.7	342	29.0	49.3
0285	21-Oct	1449	4153.5	7021.1	X25421.5	Y44062.9	065	18.0	55.8
0286	21-Oct	1700	4154.0	7010.4	X25360.6	Y44049.0	034	14.5	51.0
0287	21-Oct	1856	4153.8	7008.8	X25350.6	Y44045.7	020	9.6	53.6
0288	21-Oct	2125	4158.8	7016.5	X25429.8	Y44087.1	236	21.9	54.7

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0289	21-Oct	2348	4200.5	7026.0	X25499.7	Y44112.0	314	24.9	49.0
0290	22-Oct	0531	4221.2	7045.7	X25763.8	Y44266.7	285	16.4	54.0
0291	22-Oct	0851	4220.5	7000.4	X25498.5	Y44184.4			48.4
0292	23-Oct	1457	4205.3	7002.4	X25401.5	Y44102.9	022	31.7	52.4
0293	23-Oct	1809	4210.1	6955.6	W13692.6	Y44119.2	001	96.0	44.1
0294	23-Oct	2309	4233.1	6917.0	W13350.3	Y44182.3	026	126.6	43.9
0295	24-Oct	0132	4244.8	6918.1	W13290.3	Y44242.1	110	39.1	42.5
0296	24-Oct	0558	4300.5	6836.8	W12976.1	Y44253.4	347	105.8	43.2
0297	24-Oct	0801	4311.1	6837.3	W12912.5	Y44302.0	026	99.2	43.4
0298	24-Oct	1041	4320.7	6817.9	W12754.5	Y44314.8	073	97.6	43.4
0299	24-Oct	1452	4334.5	6741.9	W12499.9	Y44320.6	189	133.4	45.7
0300	24-Oct	1740	4317.1	6756.9	W12678.8	Y44269.4	210	127.7	45.6
0301	24-Oct	2052	4259.8	6812.0	W12857.7	Y44214.7	050	103.1	43.9
0302	24-Oct	2352	4249.7	6751.7	W12824.6	Y44141.1	052	105.5	44.9
0303	25-Oct	0332	4309.1	6729.7	W12611.5	Y44198.1	106	104.2	45.2
0304	25-Oct	0729	4256.1	6647.2	W12524.2	Y44090.0	041	108.0	46.1
0305	25-Oct	1146	4313.2	6622.1	W12337.3	Y44132.7	142	38.3	50.0
0306	25-Oct	1430	4320.5	6635.0	W12335.6	Y44177.6	017	55.0	49.5
0307	25-Oct	1711	4324.0	6650.3	W12366.7	Y44210.3	310	116.7	46.0
0308	25-Oct	2010	4328.8	6710.5	W12410.4	Y44255.3	039	123.3	45.4
0309	25-Oct	2253	4337.7	6700.3	W12315.3	Y44277.3	083	97.1	47.5
0310	26-Oct	0202	4348.3	6701.4	W12249.4	Y44320.3	196	80.7	45.7
0311	26-Oct	0458	4350.4	6649.6	W12195.2	Y44312.7	154	76.0	48.9
0312	26-Oct	0823	4348.2	6635.9	W12164.3	Y44287.2	142	56.0	49.4
0313	26-Oct	1108	4356.7	6651.2	W12158.9	Y44338.5	130	66.4	49.4
0314	26-Oct	2320	4406.2	6638.7	W12055.8	Y44357.4	156	55.5	49.4
0315	27-Oct	0147	4406.6	6651.4	W12092.9	Y44375.3	156	86.7	47.8
0316	27-Oct	0510	4423.0	6706.4	W12029.0	Y44453.8	150	77.6	48.9
0317	27-Oct	0958	4420.8	6729.1	W12126.7	Y44477.2	215	54.4	49.2
0318	27-Oct	1241	4359.5	6724.1	W12257.8	Y44393.3	230	102.3	45.3
0319	27-Oct	1519	4401.6	6736.5	W12292.5	Y44418.3	198	114.6	46.0
0320	27-Oct	2120	4409.8	6753.3	W12305.1	Y44472.9	186	53.9	50.1
0321	28-Oct	0044	4400.6	6814.5	W12467.1	Y44470.5	251	52.2	49.9
0322	28-Oct	0358	4339.1	6824.7	W12665.9	Y44401.7	194	95.7	45.6
0323	28-Oct	0817	4350.6	6830.8	W12617.4	Y44457.1	281	70.3	49.4
0324	28-Oct	1055	4348.1	6838.2	W12672.6	Y44458.8	224	61.2	49.9
0325	29-Oct	2147	4342.5	6931.4	W13006.1	Y44525.0	018	55.8	49.0
0326	30-Oct	0340	4327.0	7004.9	X25931.8	Y44519.7	042	65.3	45.9
0327	30-Oct	0753	4301.0	7018.8	X25850.5	Y44426.0	270	72.5	42.9
0328	30-Oct	1153	4252.4	7037.5	X25902.8	Y44419.0	035	41.8	47.9
0329	30-Oct	1411	4252.2	7042.5	X25930.7	Y44427.2	182	24.3	50.9
0330	30-Oct	1621	4243.7	7033.0	X25823.1	Y44365.4	162	44.6	46.0
0331	30-Oct	1917	4233.2	7026.1	X25717.7	Y44297.4	149	62.6	48.6
0332	3-Nov	2240	4218.7	7014.4	X25556.5	Y44197.9	275	18.6	50.6
0333	4-Nov	0012	4217.0	7020.0	X25575.8	Y44197.4	275	40.2	51.5
0334	4-Nov	0227	4221.2	7018.2	X25594.7	Y44218.3	278	18.6	50.8
0335	4-Nov	0506	4221.0	7040.3	X25726.9	Y44255.6	312	28.2	49.0
0336	4-Nov	1008	4244.1	6956.8	W13519.3	Y44302.7	338	105.0	43.7

CTD Cast deployed from NOAA FSV *Henry B. Bigelow*

NOAA Fisheries Service FALL BOTTOM TRAWL SURVEY  
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
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0337	4-Nov	1155	4250.3	7002.5	X25704.4	Y44343.9	340	76.3	42.7
0338	4-Nov	1421	4303.6	7004.7	X25796.3	Y44412.6	321	56.3	46.5
0339	4-Nov	1545	4304.8	7006.6	X25812.6	Y44421.9	349	66.4	44.8
0340	4-Nov	1846	4321.2	6954.9	W13286.0	Y44476.1	084	87.8	42.9
0341	4-Nov	2215	4324.0	6923.1	W13079.3	Y44432.3	133	94.1	42.6
0342	5-Nov	0055	4313.6	6905.6	W13046.4	Y44357.6	274	87.8	44.4
0343	5-Nov	0322	4316.3	6923.7	W13131.6	Y44399.7	264	86.4	44.9
0344	5-Nov	0609	4314.2	6944.0	W13264.2	Y44425.1	207	67.5	43.7
0345	5-Nov	0725	4310.4	6944.1	W13288.3	Y44407.6	351	69.4	
0346	8-Nov	1329	4122.9	6920.4	W13718.4	Y43795.8	171	33.4	47.4

CTD Cast deployed from NOAA FSV *Henry B. Bigelow*

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
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	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	131	5	138
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	16	28	5	53
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	7	64
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6	3	65	75
5	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	1	7	1	13	53
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	187	197
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	19	1	26
8	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	5	38	5	8	59
9	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	48	24	86
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	17	20
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8	9	18
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	159	160
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	2	11	106	125
14	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	1	24	33
15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	72	75
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	10	11
17	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	42	0	1	0	11	56
18	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	7	25
20	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	1	0	35	43
21	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5	0	4	20	30
22	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	1	0	3	0	22	7	0	1	0	126	164
23	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	45	9	0	41	579	7	0	0	0	89	772
24	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	34	4	0	5	223	15	0	0	0	65	349
25	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	33	19	0	32	99	17	0	1	0	40	247
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	9	0	1	2	27	0	1	0	64	108
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	0	0	2	20	15	0	0	0	122	246
28	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	9	1	0	9	62	3	0	0	0	20	107
29	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	20	0	0	19	50	2	0	0	0	52	146
30	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	39	0	0	29	87	1	0	0	0	64	222
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	16	35
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	221	0	33	0	6	260
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	1	7	93
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	26	2	31
35	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	6	30
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	4	9	7	28	62
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	23	0	15	59



NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
 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 FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
38	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	45	0	39	106
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	71	0	10	82
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	5	16
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	15	0	1	17
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	0	34	40
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	5	0	20	56
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	11
45	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	1	30	42
46	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	40	47
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	10	0	139	95	6	0	4	0	132	394
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	11	0	146	159
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	5	0	31	7	5	0	1	0	47	99
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	5	0	6	9	0	0	0	0	55	79
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	33	4	7	0	0	0	55	104
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	7	0	59	8	8	0	1	0	91	182
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	14	17
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	21	0	10	45
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	5	11
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	15	22
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	5	34
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	30	50
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	24	0	4	0	1	0	1	0	81	112
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	8	4	10	0	0	0	74	108
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	2	1	0	0	1	0	104	139
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	2	0	32	112	6	0	0	0	96	257
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	277	0	32	138	91	0	1	0	44	593
65	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	110	0	11	16	0	0	2	0	8	149
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	159	0	37	22	0	0	2	0	180	402
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	66	0	177	99	0	0	0	0	27	372
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	115	0	27	73	0	0	0	0	52	277
69	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	78	0	46	67	0	0	0	0	22	216
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	153	0	20	53	1	0	3	0	58	290
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	1	0	14	0	60	92
72	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	0	0	0	36	0	9	0	150	201
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	33	364	2	0	0	0	193	605
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	481	0	25	261	13	0	1	0	79	873
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	260	0	127	42	7	0	1	0	387	837

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
 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 FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	248	1	70	0	0	0	1	0	23	344
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	0	273	191	2	0	1	0	345	827
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	55	419	2	0	0	0	451	959
79	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6	184	9	0	0	0	0	59	259
80	0	0	0	0	0	0	0	0	0	0	0	0	0	1	27	18	4	0	146	61	4	0	3	0	655	919
81	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	14	0	0	99	76	9	0	1	0	114	319
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	14	208	3	0	0	0	654	920
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	15	5	0	73	160	0	0	1	0	164	461
84	0	0	0	0	0	0	0	0	0	0	0	0	0	2	35	25	12	0	102	3	3	0	1	0	371	554
85	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	7	0	28	0	103	139
86	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0	0	1	0	85	92
87	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	29	20	0	427	1049	0	0	0	0	432	1958
88	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	85	24	0	119	100	0	0	1	0	186	516
89	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	84	0	0	39	214	1	0	0	0	93	433
90	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	43	22	0	55	115	11	0	1	0	421	671
91	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	4	0	1	0	46	54
92	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	0	5	0	0	2	1	0	0	0	294	312
93	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	1	0	7	0	1	0	144	156
94	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	41	11	0	37	1215	15	0	0	0	680	2016
95	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	31	0	67	321	28	0	0	0	243	708
96	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	8	9	0	9	31	11	0	1	0	210	286
97	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	0	0	0	0	0	0	1	0	22	30
98	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	17	40	0	27	272	0	0	0	0	22	381
99	0	0	0	0	0	0	0	0	0	0	0	0	5	7	0	1	8	34	0	21	0	0	0	0	119	195
100	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	50	0	56	411	0	0	0	0	796	1317
101	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	19	0	35	970	0	0	0	0	132	1160
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	4	0	3	14
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	72	85
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	10
105	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	18	24
106	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	5	11
107	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	65	69
108	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	33	43
109	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0	4	1	8	25
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	17	3	6	38
111	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	0	16	2	34	60
112	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	1	9
113	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	81	0	18	2	2	105

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
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 FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
114	0	0	0	0	0	0	0	0	0	1	0	0	1	119	0	0	6	0	0	0	5	0	27	0	68	227
115	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	2	1	0	0	0	0	0	1	0	564	575
116	0	0	0	0	0	0	0	0	0	0	0	0	4	7	0	10	1	0	1	0	0	0	0	0	217	240
117	0	0	0	0	0	0	0	0	0	0	0	0	3	13	11	35	3	0	2	0	41	0	0	0	477	585
118	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2	14	1	0	0	0	3	0	0	0	87	120
119	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	1	0	2	0	3	0	0	0	34	62
120	0	0	0	0	16	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	51	69
121	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	71
122	0	0	0	0	1	0	0	0	0	1	0	0	1	0	8	0	0	0	0	0	0	1	1	0	34	47
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	8	16
124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	1	5	0	19	32
125	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	3	1	0	3	18	0	3	0	178	211
126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	5	2	0	0	1	0	2	0	33	54
127	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9	26	1	1	0	5	43	0	0	0	132	218
128	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	2	2	0	6	0	4	0	1	0	2	26
129	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	41	1	0	3	111	1	0	0	0	44	209
130	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	105	4	0	8	16	0	0	0	0	29	165
131	0	0	0	0	0	0	0	0	0	0	0	0	4	37	2	18	2	17	8	35	0	0	2	0	268	393
132	0	0	0	0	0	0	0	0	0	1	0	0	3	34	0	0	0	0	0	0	0	0	1	0	196	235
133	0	0	0	0	0	0	0	0	0	0	0	0	4	39	5	0	3	9	14	0	3	0	2	0	332	411
134	0	0	0	0	0	0	0	0	0	26	0	0	0	4	10	0	158	0	0	0	253	2	155	0	1059	1667
135	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	7	0	90	99
136	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	1	0	0	0	4	0	30	0	139	180
137	0	0	0	0	0	0	0	0	0	0	0	0	0	10	22	0	0	0	0	0	1	0	10	0	244	287
138	0	0	0	0	0	0	0	0	0	1	0	0	0	12	14	0	0	0	0	0	6	1	15	0	180	229
139	0	0	0	0	0	0	0	0	0	0	0	0	0	33	26	0	3	0	0	0	1	0	70	0	238	371
140	0	0	0	0	0	0	0	0	0	3	0	0	0	39	6	0	0	0	0	0	10	0	37	0	35	130
141	0	0	0	0	0	0	0	0	0	0	0	0	3	13	0	3	4	0	0	0	1	0	2	0	146	172
142	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	0	2	0	0	0	3	0	32	0	114	191
143	0	0	0	0	1	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	1	0	0	0	92	98
144	0	0	0	0	1	0	0	0	0	6	0	0	0	7	0	0	0	0	0	0	0	0	1	0	66	81
145	0	0	0	0	1	0	0	0	0	1	0	0	1	45	0	0	2	0	0	0	18	0	4	0	21	93
146	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	1	0	0	0	20	0	3	0	185	222
147	0	0	0	0	0	0	0	0	0	0	0	0	1	16	33	9	0	0	0	0	4	0	7	0	445	515
148	0	0	0	0	0	0	0	0	0	0	0	0	4	8	14	7	11	0	0	0	2	0	0	0	117	163
149	0	0	0	0	0	0	0	3	0	0	0	0	0	5	5	0	0	0	0	0	1	0	102	0	53	169
150	0	0	0	0	0	0	0	0	0	0	0	0	0	10	142	0	1	0	0	0	0	0	0	0	127	280
151	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	31	0	20	54

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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 FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
152	0	0	0	0	6	0	0	0	13	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	86	111
153	0	0	0	0	1	0	0	8	3	12	0	0	1	32	0	0	1	0	0	0	0	2	2	0	89	151
154	0	0	0	0	0	0	0	0	0	0	0	0	1	9	0	0	40	6	0	0	0	0	6	0	85	147
155	0	0	0	0	0	0	0	0	0	5	0	0	3	17	0	0	12	4	0	0	0	0	141	0	67	249
156	10	0	0	0	1	0	0	234	1	13	0	0	0	5	25	0	0	0	0	0	3	0	26	0	246	564
157	0	0	0	0	0	0	0	0	0	0	0	0	0	18	7	0	0	7	0	0	11	0	135	0	42	220
158	0	0	0	0	0	0	0	0	0	0	0	0	0	7	12	0	2	5	0	0	23	1	135	0	43	228
159	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0	0	0	4	2	19	0	31	62
160	0	0	0	0	0	0	0	447	0	0	0	0	0	8	0	0	33	0	0	0	0	0	23	0	16	527
161	0	0	0	0	5	0	0	346	3	4	0	0	0	44	0	0	0	0	0	0	0	2	0	0	62	466
162	0	0	0	0	13	0	0	6	25	3	0	0	0	10	0	0	0	0	0	0	0	0	1	0	49	107
163	0	0	0	0	11	0	0	350	4	2	0	0	0	15	0	0	0	0	0	0	0	0	0	0	122	504
164	0	0	0	0	19	0	3	730	0	0	0	0	0	40	18	0	0	0	0	0	3	0	4	0	40	857
165	0	0	0	0	24	0	23	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	53	103
166	0	0	0	0	16	0	0	74	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	40	134
167	0	0	0	0	33	0	27	13	0	0	0	0	0	0	0	0	0	0	0	0	32	2	32	0	47	186
168	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	2	283	3	7	315
169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	190	18	10	219
170	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	7	19	3	2	57
171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	0	87	1	3	158
172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	33	36
173	0	0	0	0	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	24	40
174	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	27	30
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	4	0	172	179
176	0	0	0	0	1	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	5	1	55	0	24	94
177	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	235	244
178	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	47	0	10	60
179	0	0	0	0	0	0	0	0	1	0	0	0	0	9	0	0	0	0	0	0	2	0	80	0	6	98
180	0	0	0	0	0	0	0	7	2	0	0	0	0	8	7	0	0	0	0	0	54	0	15	0	3	96
181	0	0	0	0	10	0	0	8	22	2	0	0	1	0	0	0	0	0	0	0	1	0	1	0	54	99
182	0	0	0	0	2	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	13	0	24	45
183	0	0	0	0	12	0	0	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	171
184	0	0	0	0	26	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	8	42
185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	10
186	0	0	0	0	2	0	0	676	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	15	3	700
187	0	0	0	0	5	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	6	85
188	0	0	0	0	2	0	0	28	2	0	0	0	0	0	0	0	0	0	0	0	0	0	14	3	2	51
189	0	0	0	0	0	0	0	67	0	0	0	0	0	1	6	0	0	2	0	0	0	6	0	0	29	111



NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
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 FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL	
190	0	0	0	0	1	0	0	0	0	6	0	0	0	1	0	0	1	0	0	0	0	21	91	0	2	123	
191	14	0	0	0	6	0	0	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2	26	54	
192	0	0	0	0	0	0	0	243	0	6	0	0	0	0	190	0	0	0	0	0	0	5	13	1	57	515	
193	6	0	0	0	0	0	0	3142	0	4	0	0	0	0	19	0	0	0	0	0	0	6	9	0	233	3419	
194	5	0	0	0	0	0	0	244	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	63	316	
195	86	0	0	0	0	0	0	7044	0	42	0	0	0	0	0	0	0	0	0	0	0	9	0	0	174	7355	
196	8	0	0	1	9	0	0	855	0	33	0	0	0	0	10	0	0	0	0	0	0	1	21	25	0	81	1044
197	21	0	0	0	0	0	0	803	0	10	0	0	0	0	0	0	4	0	0	0	0	15	178	0	152	1183	
198	0	0	0	0	0	0	0	2916	0	2	0	0	2	0	0	0	40	6	0	0	0	5	8	0	99	3078	
199	0	0	0	0	0	0	0	33	0	0	0	0	4	3	0	0	0	0	0	0	0	0	8	0	92	140	
200	0	0	0	0	1	0	0	738	5	22	0	0	18	1	0	0	0	0	0	0	0	0	17	0	49	851	
201	0	0	0	0	3	0	0	0	1	0	0	0	1	6	0	0	0	0	0	0	0	3	16	0	48	78	
202	7	0	0	0	13	0	0	1931	6	68	0	0	0	0	0	0	0	0	0	0	4	7	18	1	99	2154	
203	0	0	0	0	0	0	0	433	0	1	0	0	1	7	0	0	0	0	0	0	0	4	12	7	18	483	
204	0	262	0	0	7	0	19	47	2	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	366	
205	0	0	0	0	0	0	0	129	0	7	0	0	0	0	62	0	0	0	0	0	2	5	11	2	17	235	
206	0	0	0	0	0	0	0	75	0	1	0	0	4	0	48	0	0	0	0	0	0	0	16	9	37	190	
207	0	0	0	0	0	0	0	23	0	4	0	0	13	7	0	0	0	0	0	0	0	0	5	2	462	516	
208	0	0	0	0	0	0	0	55	0	0	0	0	15	0	0	0	0	0	0	0	0	0	4	1	108	183	
209	0	0	0	0	0	0	0	12	0	1	0	0	4	0	0	0	0	0	0	0	2	0	6	0	80	105	
210	0	0	0	0	32	0	15	24	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	210	293	
211	0	0	0	0	21	0	0	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	51	199	
212	0	0	0	0	9	0	0	61	61	0	0	0	0	0	0	0	0	0	0	0	1	3	0	2	411	548	
213	0	1	0	0	10	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	192	
214	0	0	0	0	8	0	13	3	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	2	32	
215	0	0	0	3	1	7	0	0	0	0	2	7	0	0	0	0	0	0	0	0	0	0	0	1	13	34	
216	0	0	0	0	51	0	0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	42	182	
217	0	0	0	0	8	0	0	116	108	2	0	0	0	0	0	0	0	0	0	0	0	5	0	0	248	487	
218	0	0	0	0	11	0	31	167	69	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	581	
219	0	0	0	0	5	0	0	10	0	14	0	0	33	0	0	0	0	0	0	0	2	20	0	0	93	177	
220	0	0	0	0	0	0	0	72	0	0	0	0	0	2	0	0	0	0	0	0	0	18	38	1	6	137	
221	0	0	0	0	1	0	0	10	45	2	0	0	0	19	0	0	0	0	0	0	0	9	7	0	5	98	
222	0	1	0	0	5	0	0	7	100	1	0	0	0	10	0	0	0	0	0	0	0	22	1	0	6	153	
223	0	0	0	0	2	0	0	11	20	0	0	0	0	0	0	0	0	0	0	0	8	34	0	0	9	84	
224	0	9	0	2	0	0	0	60	24	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	32	129	
225	0	0	0	2	1	0	0	161	15	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	35	219	
226	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	
227	0	0	0	0	34	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	41	86	

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
 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 FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL	
228	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
229	0	0	0	0	0	0	0	387	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143	531
230	0	1	0	0	1	0	0	14	256	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	724	1007
231	0	1	0	0	1	0	0	57	217	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	403	686
232	0	3	0	3	6	0	0	0	66	0	0	0	0	0	0	0	0	0	0	0	0	7	0	3	65	153	
233	0	0	0	1	5	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	29	0	2	27	73	
234	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	50	59	
235	7	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	45	1	174	237	
236	0	0	0	0	0	0	0	9	1	6	0	0	0	0	0	0	0	0	0	0	10	7	44	1	59	137	
237	12	0	0	0	0	0	0	4	1	3	0	0	0	0	0	0	0	0	0	0	0	26	8	0	73	127	
238	18	424	0	6	1	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	556
239	25	8	0	9	1	0	0	0	6	14	0	0	3	0	0	0	0	0	0	0	0	27	0	0	1575	1668	
240	0	0	0	0	0	0	0	0	63	0	0	0	1	0	0	0	0	0	0	0	0	7	0	0	101	172	
241	14	69	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	98
242	13	135	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	159
243	6	590	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	615	
244	8	854	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	864	
245	0	1780	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	9	0	2	32	1824	
246	10	1670	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	5	1689	
247	12	10	0	2	4	0	0	0	12	58	0	0	0	0	0	0	0	0	0	0	0	17	0	1	198	314	
248	0	28	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8	40	
249	2	11	1	3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	36
250	0	0	0	2	2	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	1	25	
251	0	40	0	10	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	46	112	
252	0	12	0	17	3	8	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	11	55	
253	0	48	0	7	4	19	0	275	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	357	
254	0	8	13	2	1	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	137	
255	0	0	0	47	44	234	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	22	383	
256	9	111	0	13	2	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	16	168	
257	9	14	0	18	9	62	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	23	137
258	0	0	0	7	37	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	61	117
259	0	0	0	0	0	0	0	651	0	19	0	0	0	7	10	0	0	0	0	0	0	0	9	0	0	208	904
260	0	0	0	0	0	0	0	182	0	5	0	0	0	0	0	0	0	0	0	0	0	33	13	1	309	543	
261	0	0	0	0	0	0	0	369	0	13	0	0	0	0	0	0	0	0	0	0	0	14	39	1	70	506	
262	0	0	0	0	0	0	0	452	0	23	0	0	2	0	20	0	0	0	0	0	0	161	29	1	659	1347	
263	0	0	0	0	0	0	0	177	0	2	0	0	6	0	10	0	0	0	0	0	0	24	16	0	128	363	
264	0	0	0	0	0	0	0	45	0	0	0	0	1	0	0	0	0	0	0	0	0	0	35	1	180	262	
265	0	0	0	0	0	0	0	544	0	1	0	0	0	0	0	0	0	0	0	0	0	0	31	1	215	792	





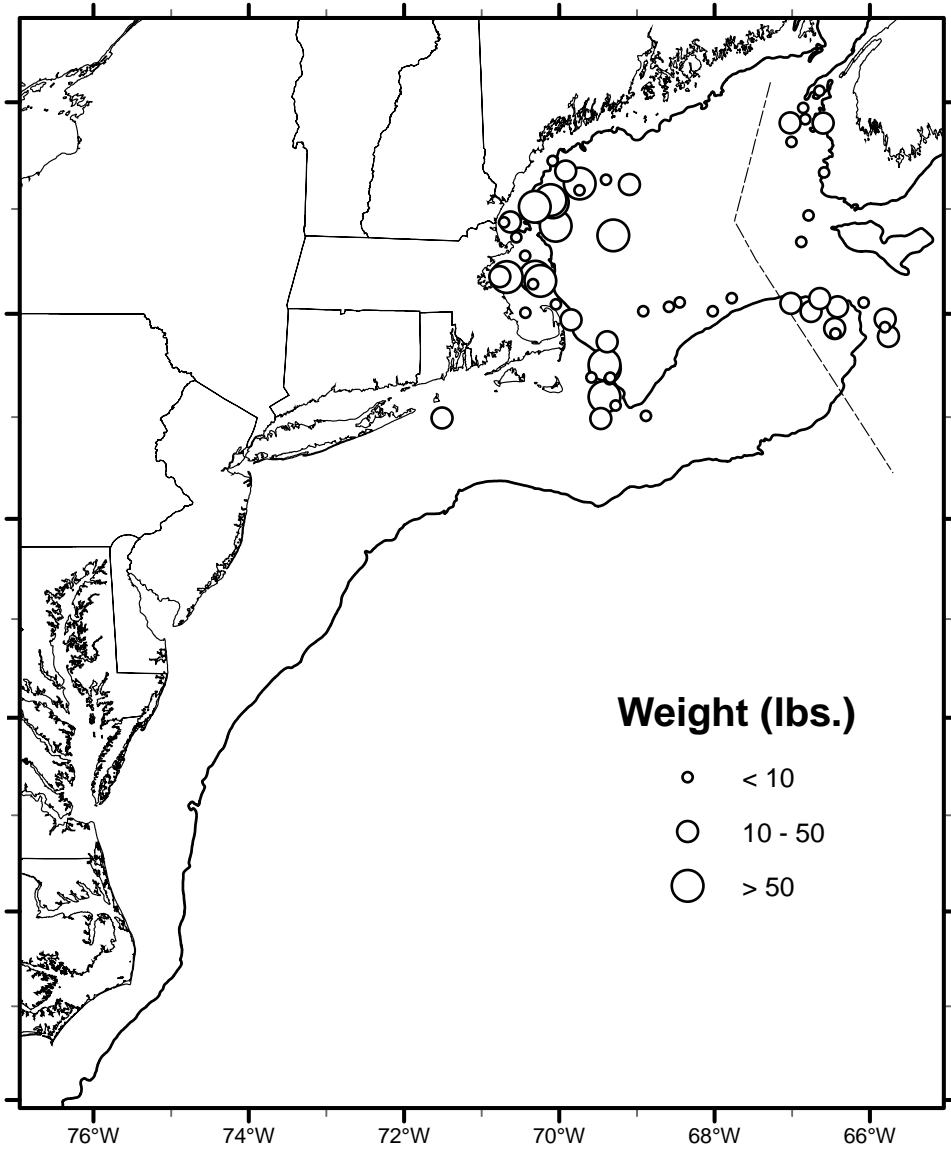


NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2008  
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

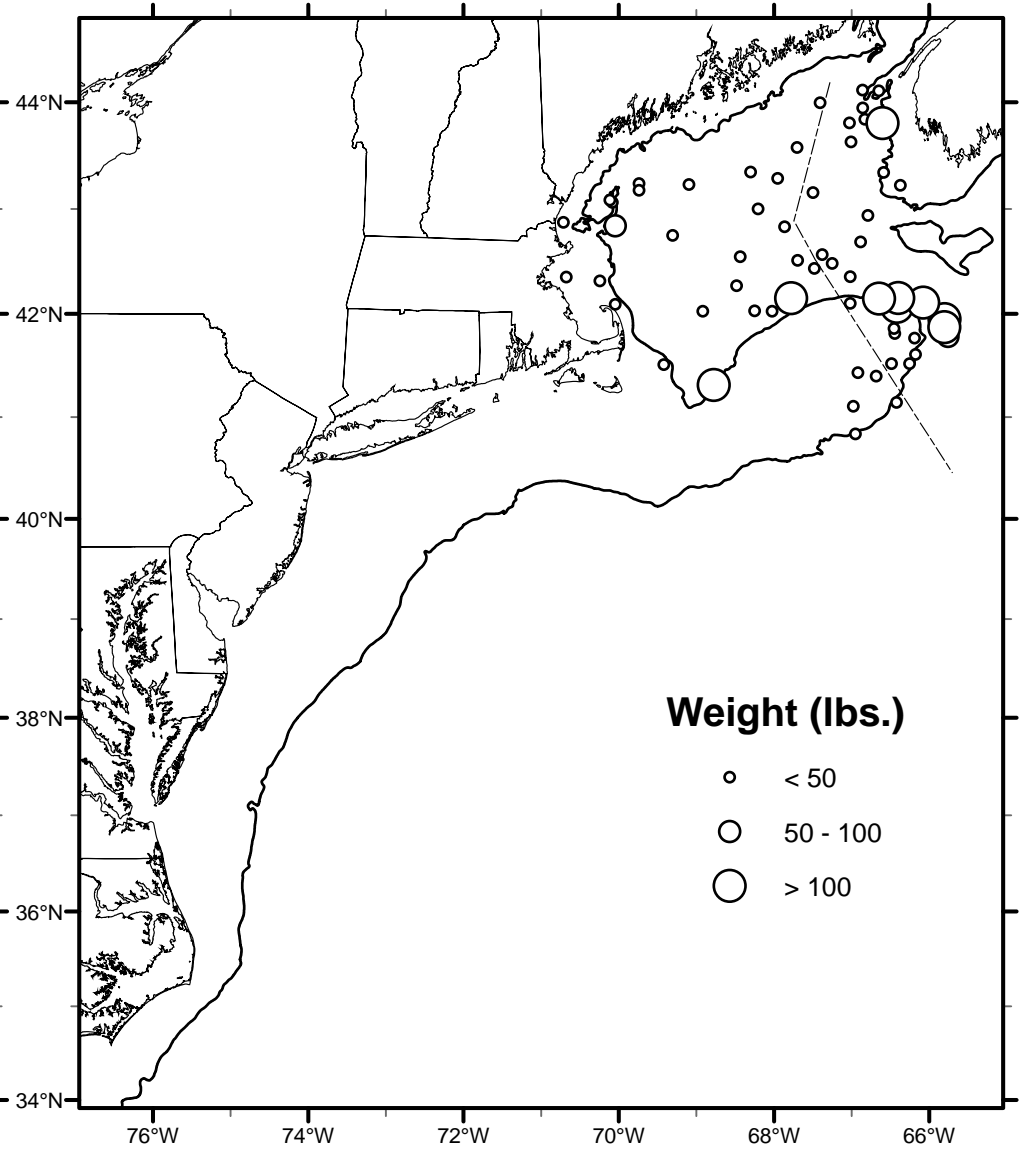
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL	
342	37	47	19	21	1	884	1	22	0	0	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	27	1070
343	3	0	0	10	9	26	2	196	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	39	290
344	73	16	0	9	2	216	0	333	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	4	20	679	
345	7	4	0	6	7	48	0	242	0	0	19	1	0	0	0	0	0	0	0	0	0	0	0	11	72	417	
346	3	0	0	0	22	0	0	17	3	0	0	0	0	0	0	0	0	0	0	0	1	2	4	0	45	97	
TOTAL	1883	6808	637	1123	1763	7373	324	44728	1480	1808	716	106	216	895	1044	1082	2729	108	2924	8537	1702	1606	3497	666	35042	128797	

\* "Total other" in southern areas are comprised primarily of rays, large sharks and spotted hake.

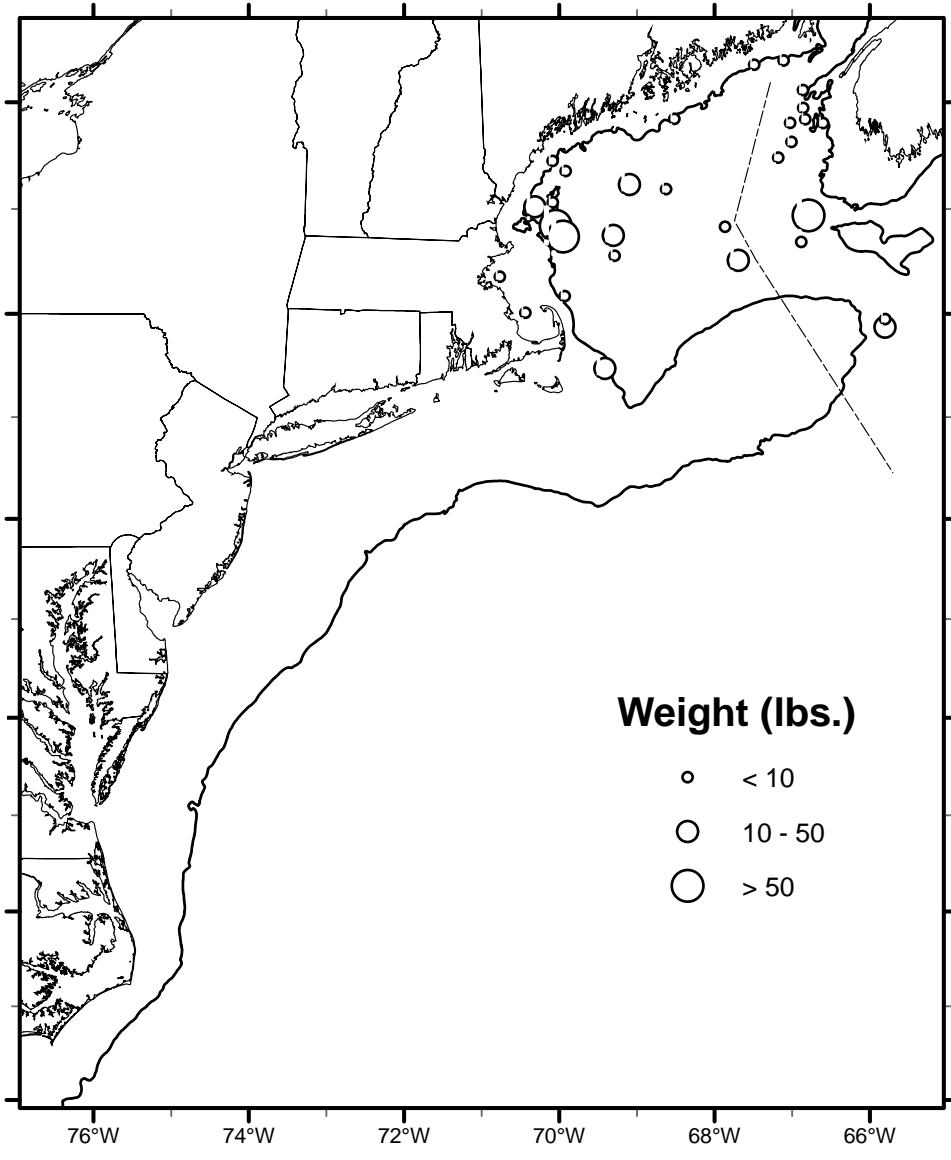
**ATLANTIC COD**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



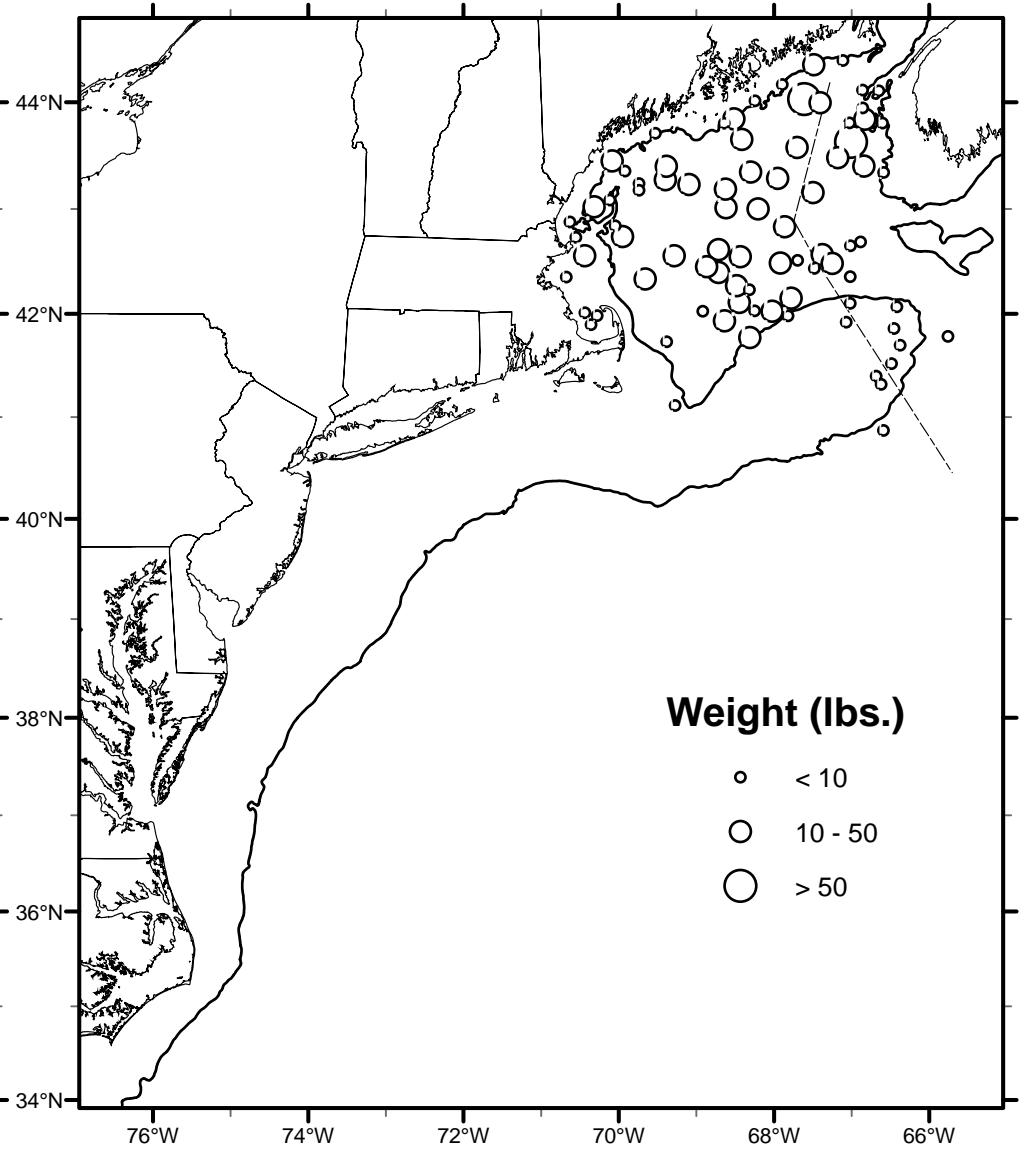
**HADDOCK**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



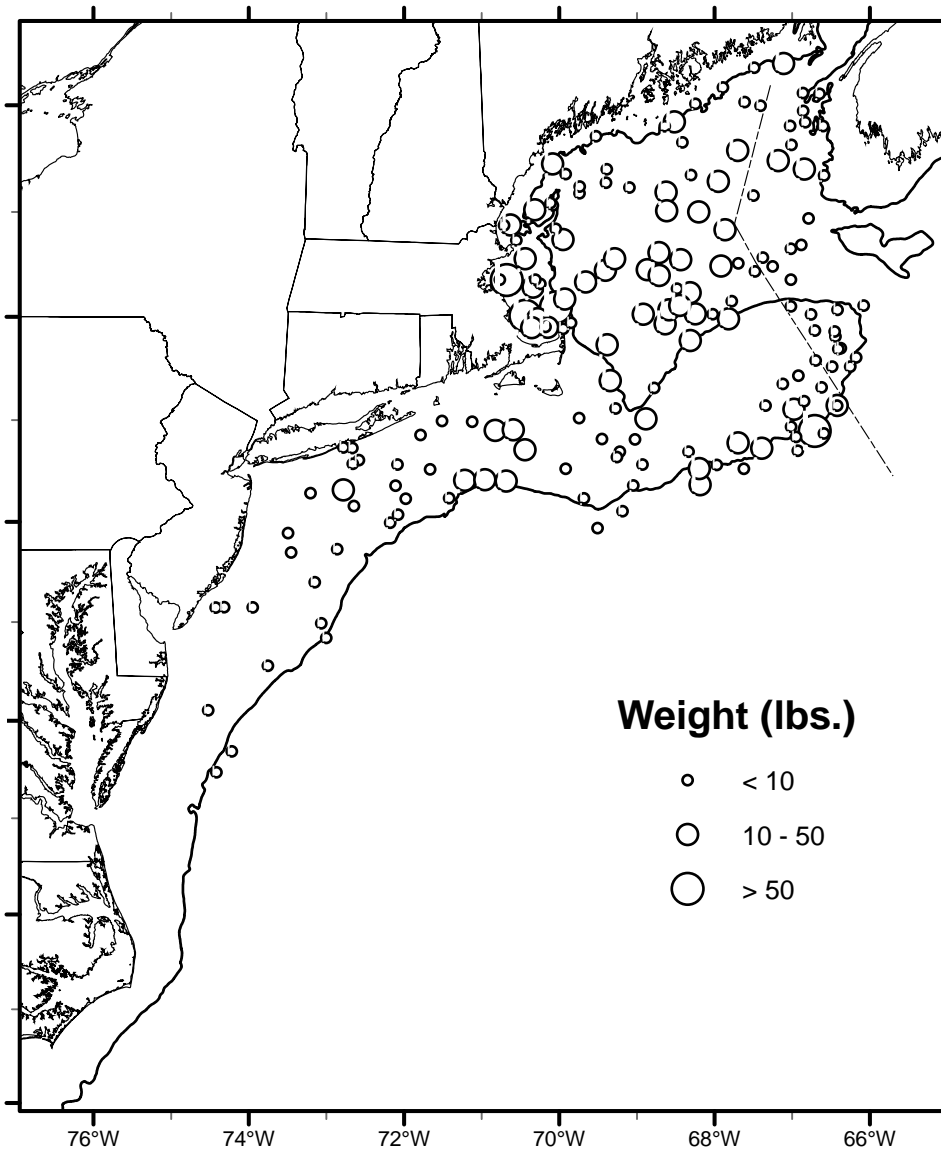
**POLLOCK**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



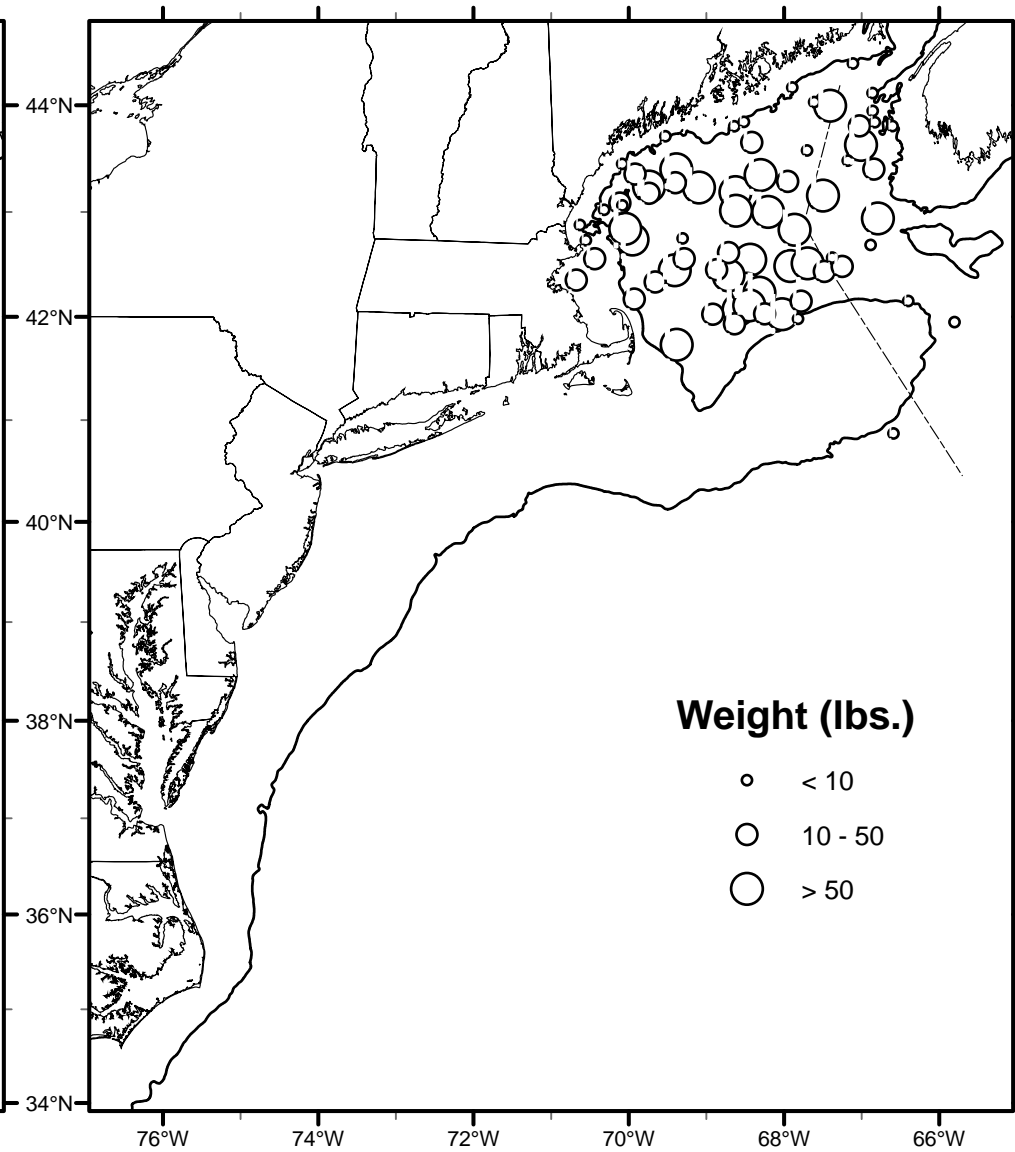
**WHITE HAKE**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



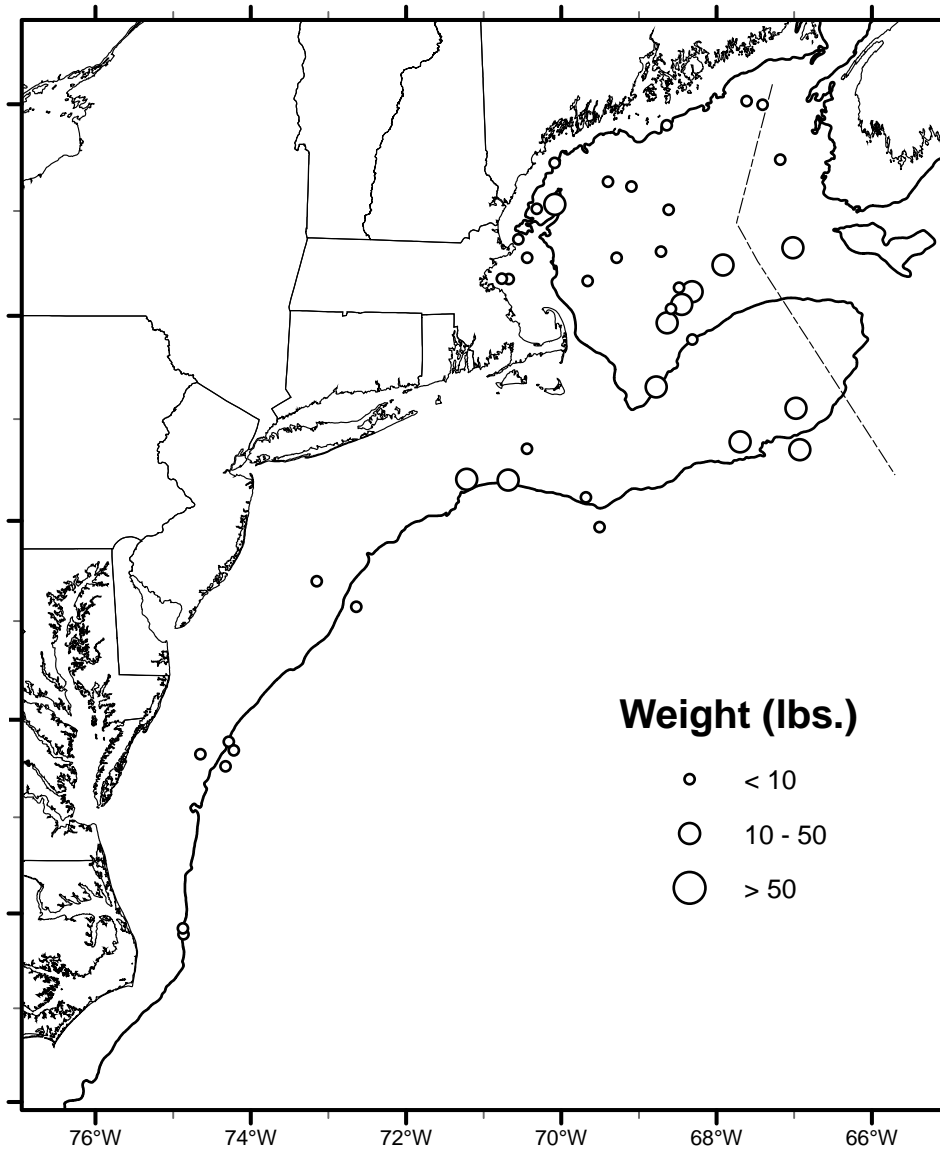
**SILVER HAKE**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



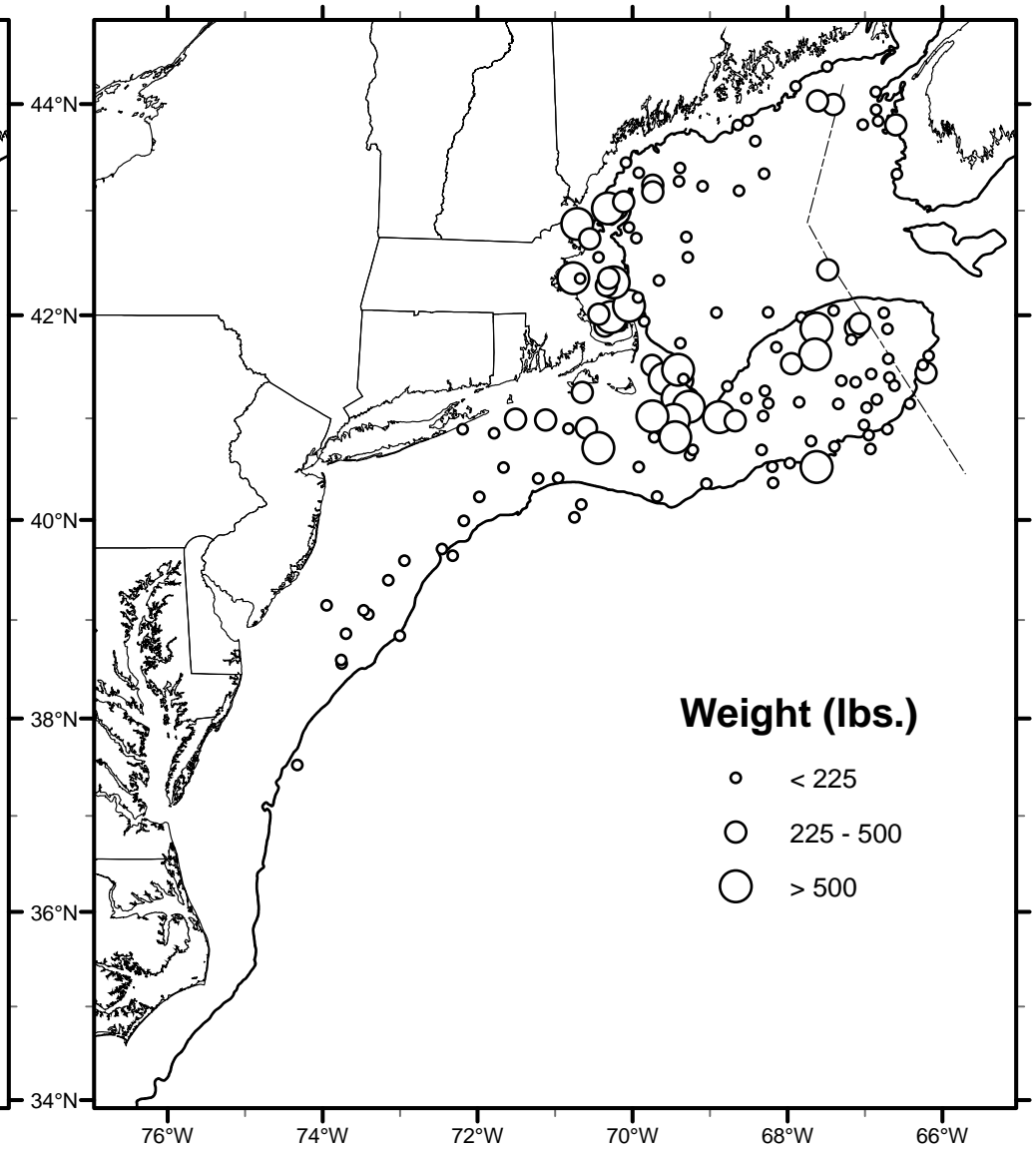
**ACADIAN REDFISH**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



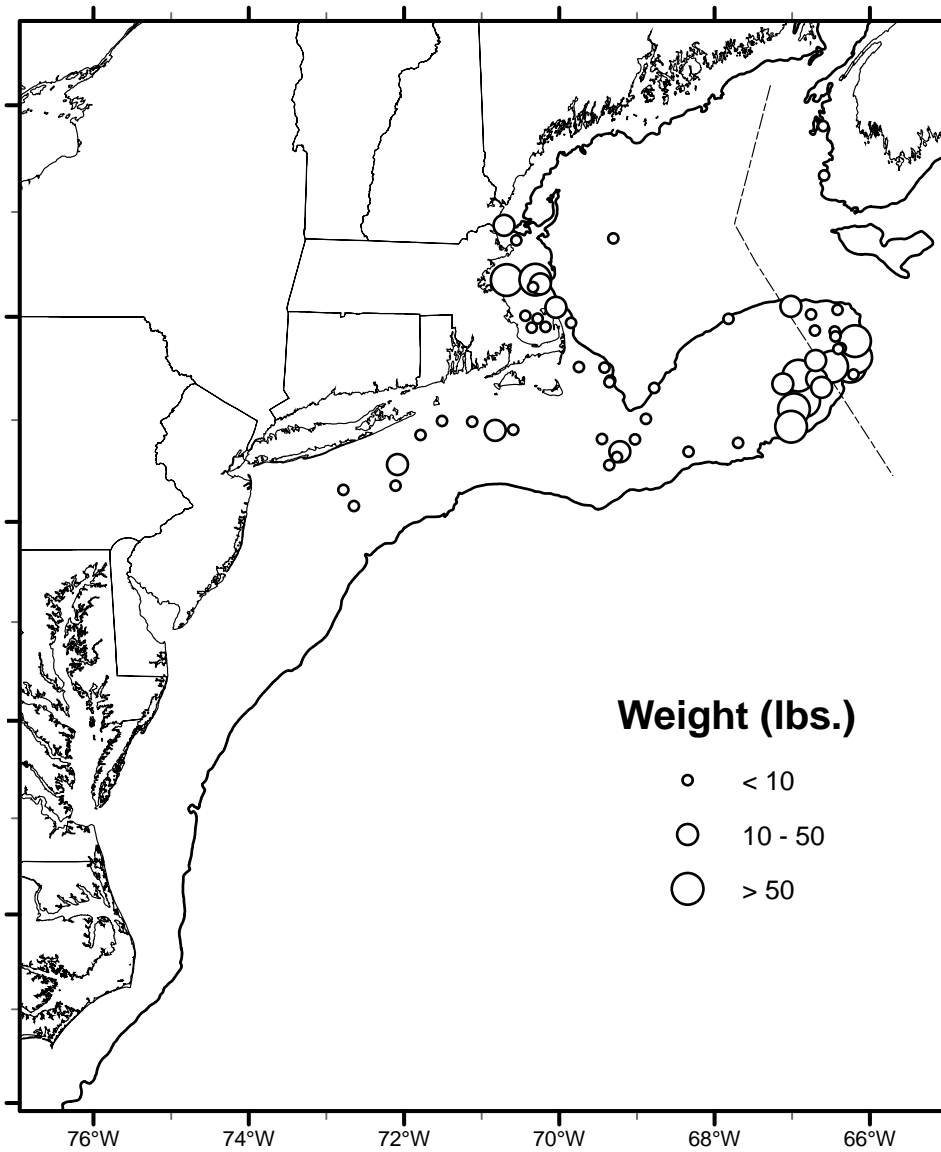
**GOOSEFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



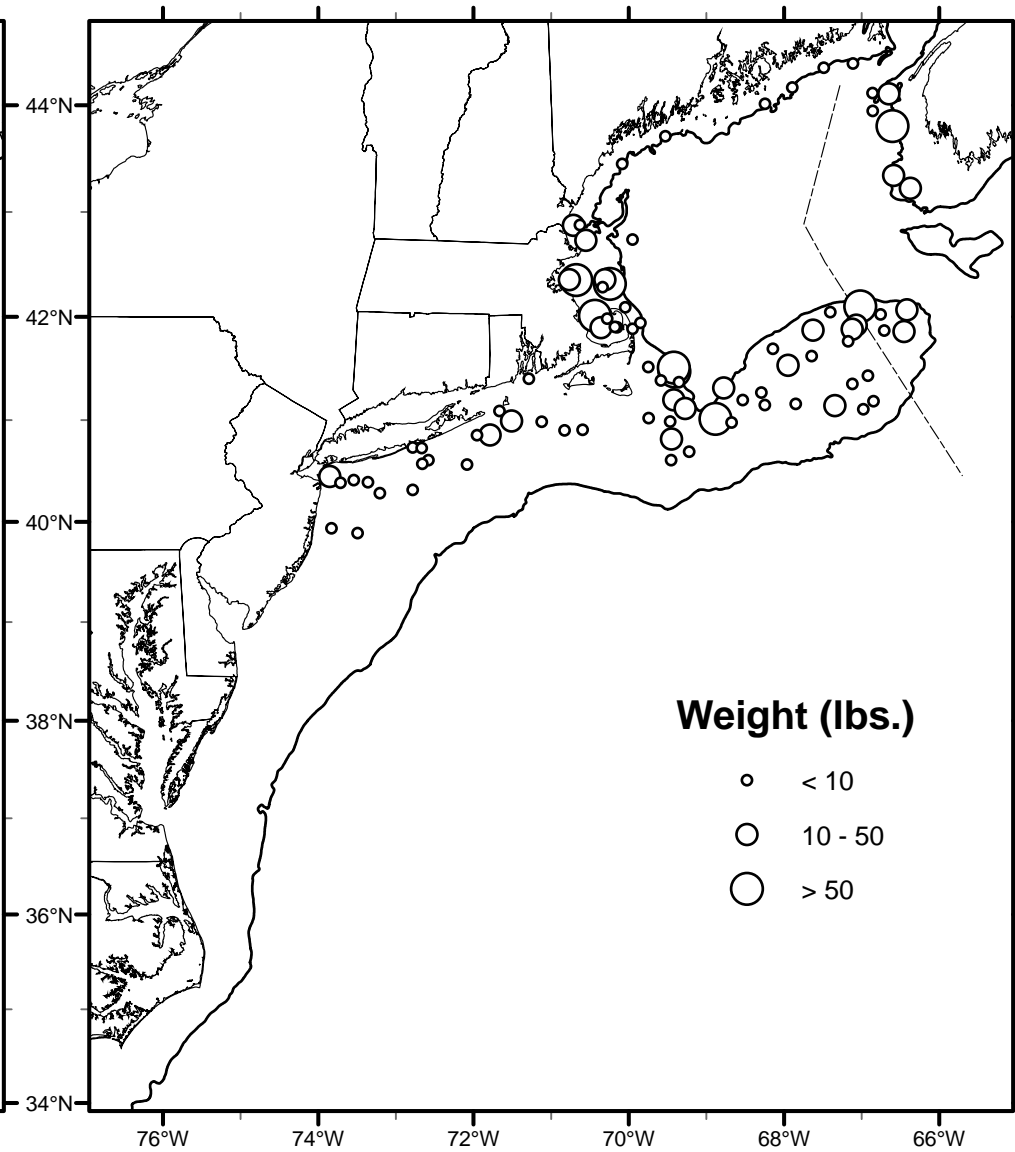
**SPINY DOGFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



**YELLOWTAIL FLOUNDER**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**

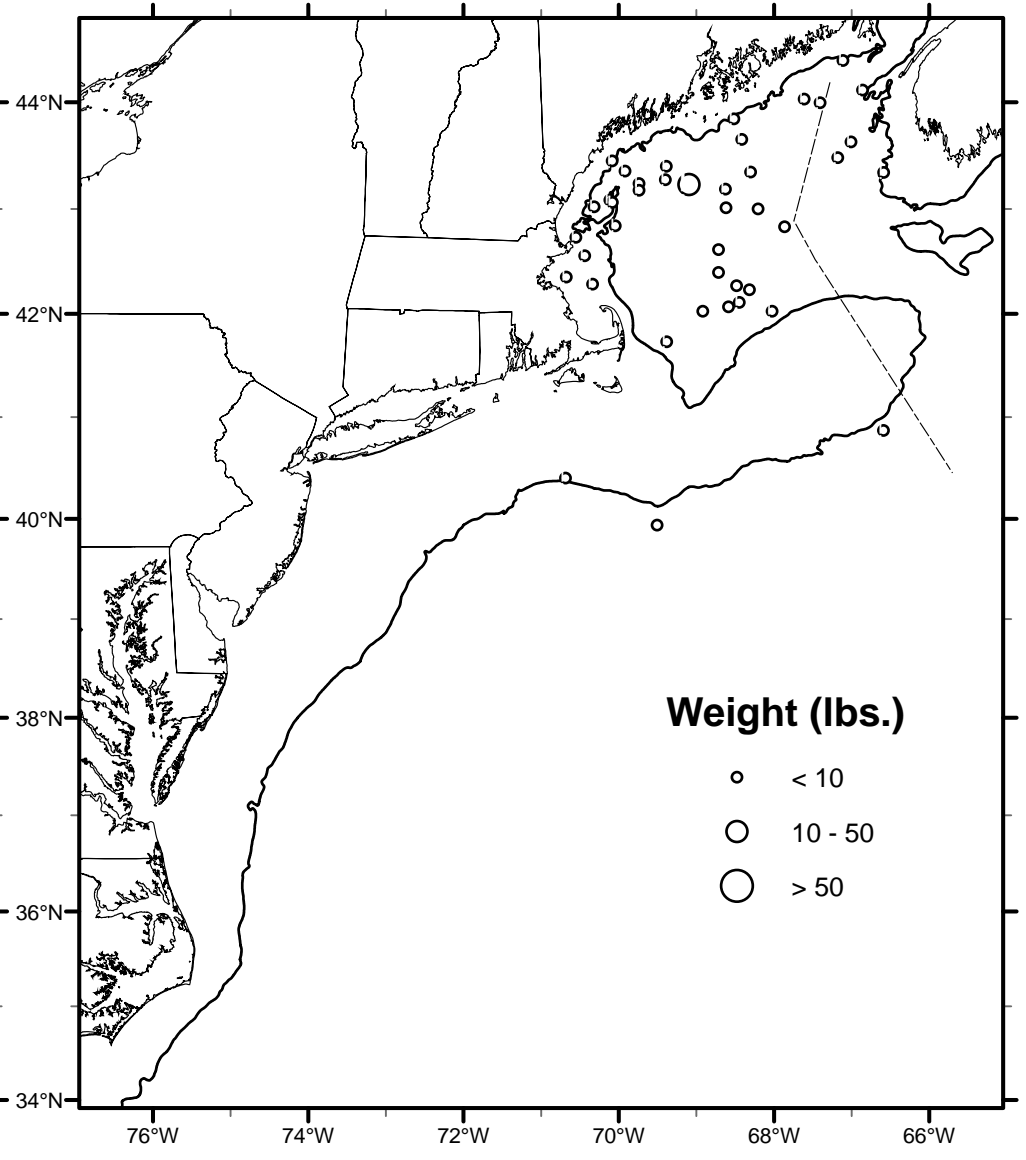
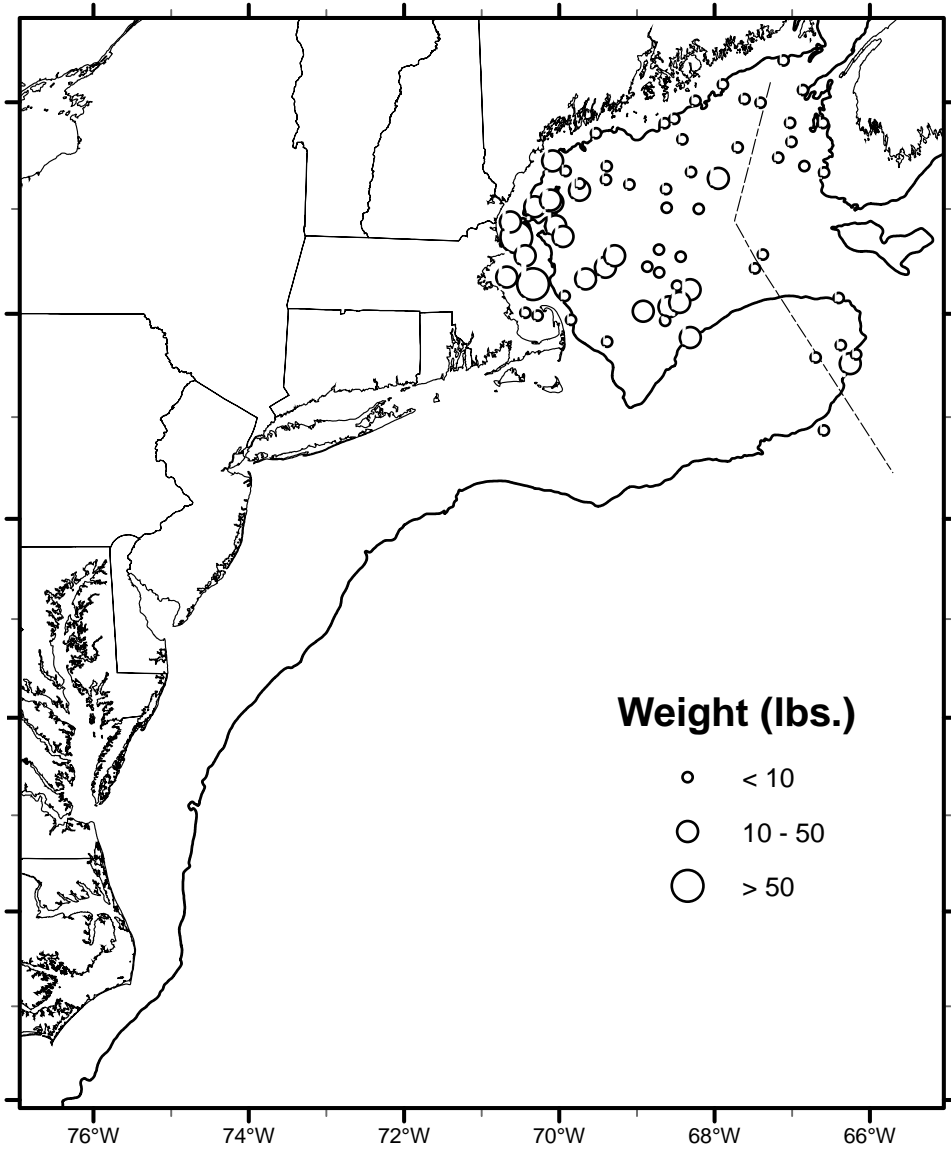


**WINTER FLOUNDER**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



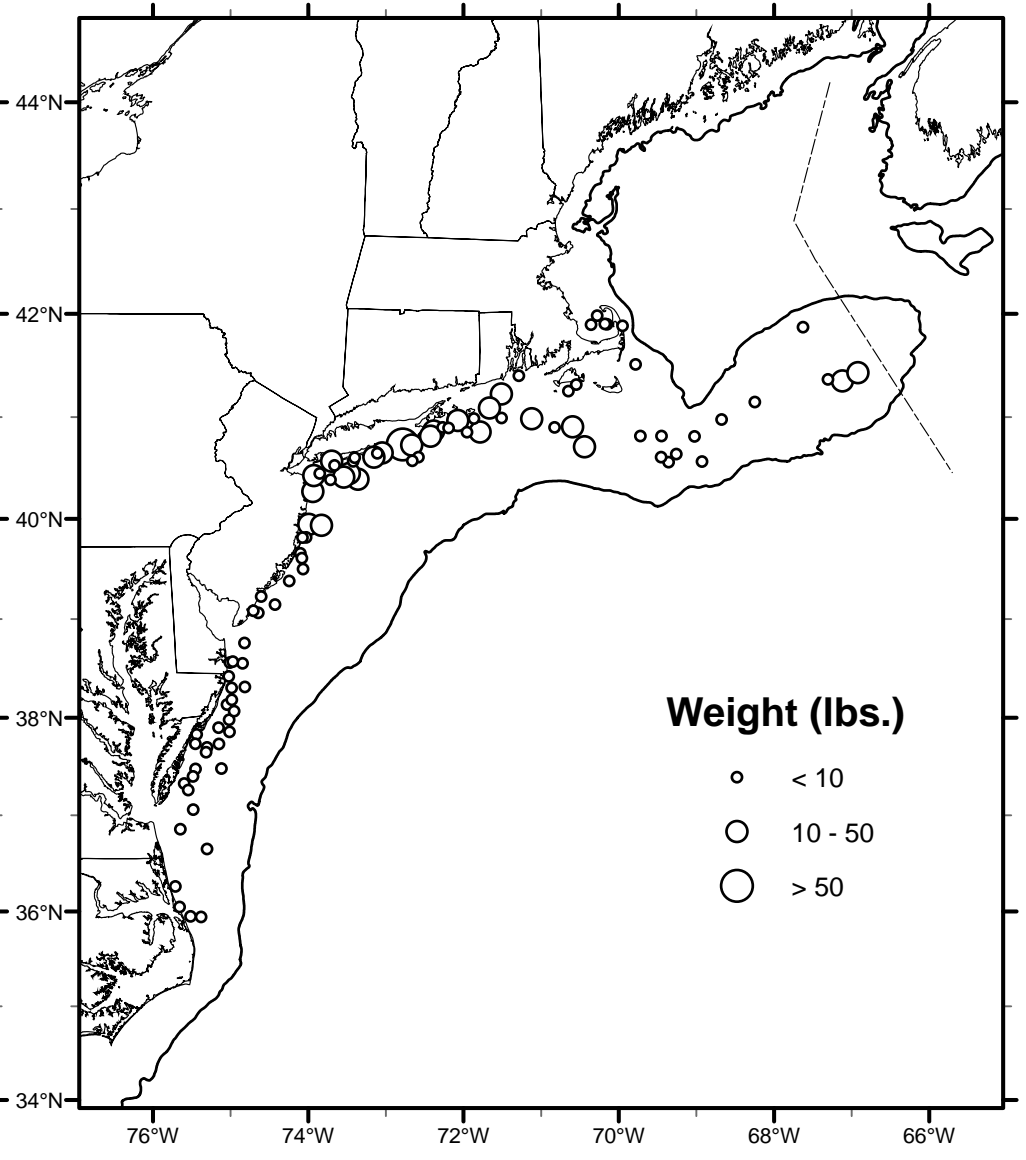
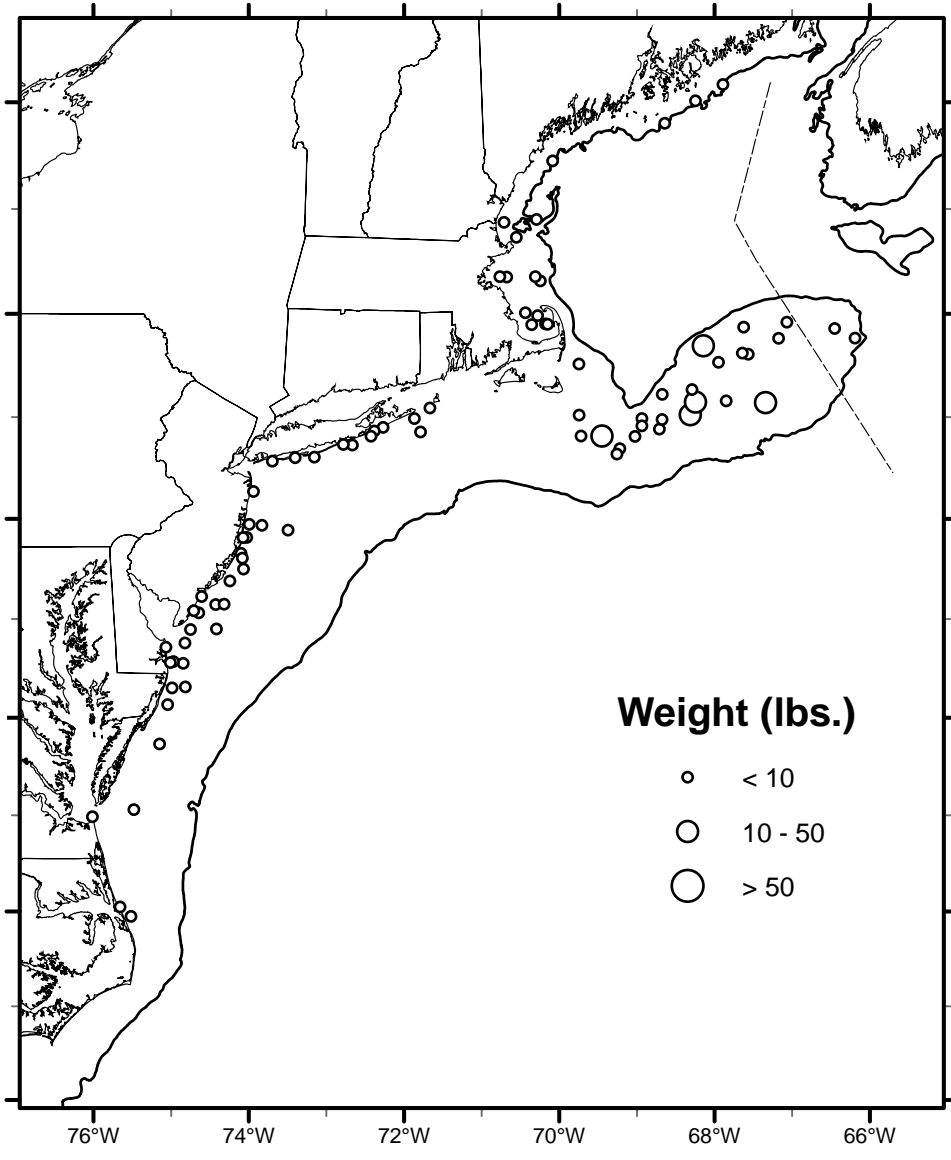
**AMERICAN PLAICE**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008

**WITCH FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



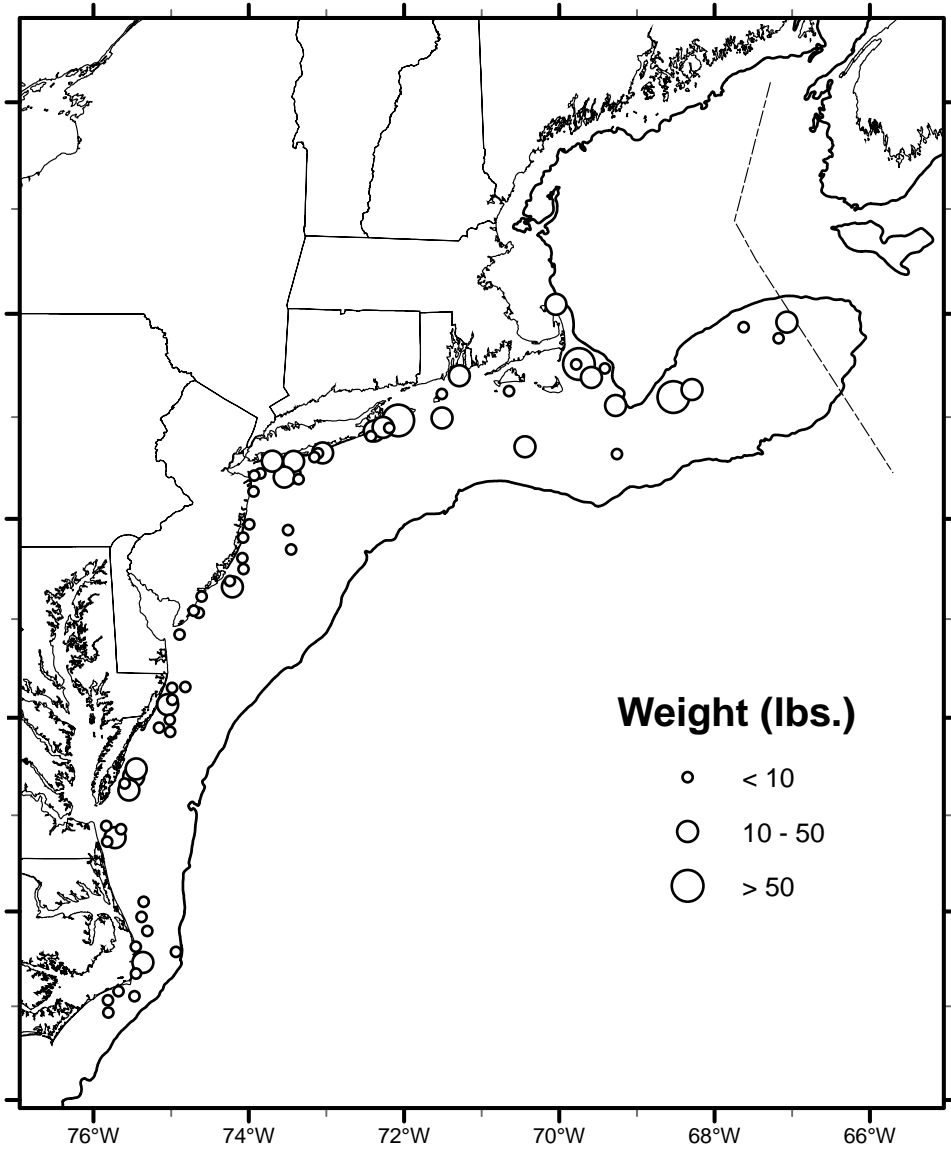
**WINDOWPANE FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008

**SUMMER FLOUNDER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008

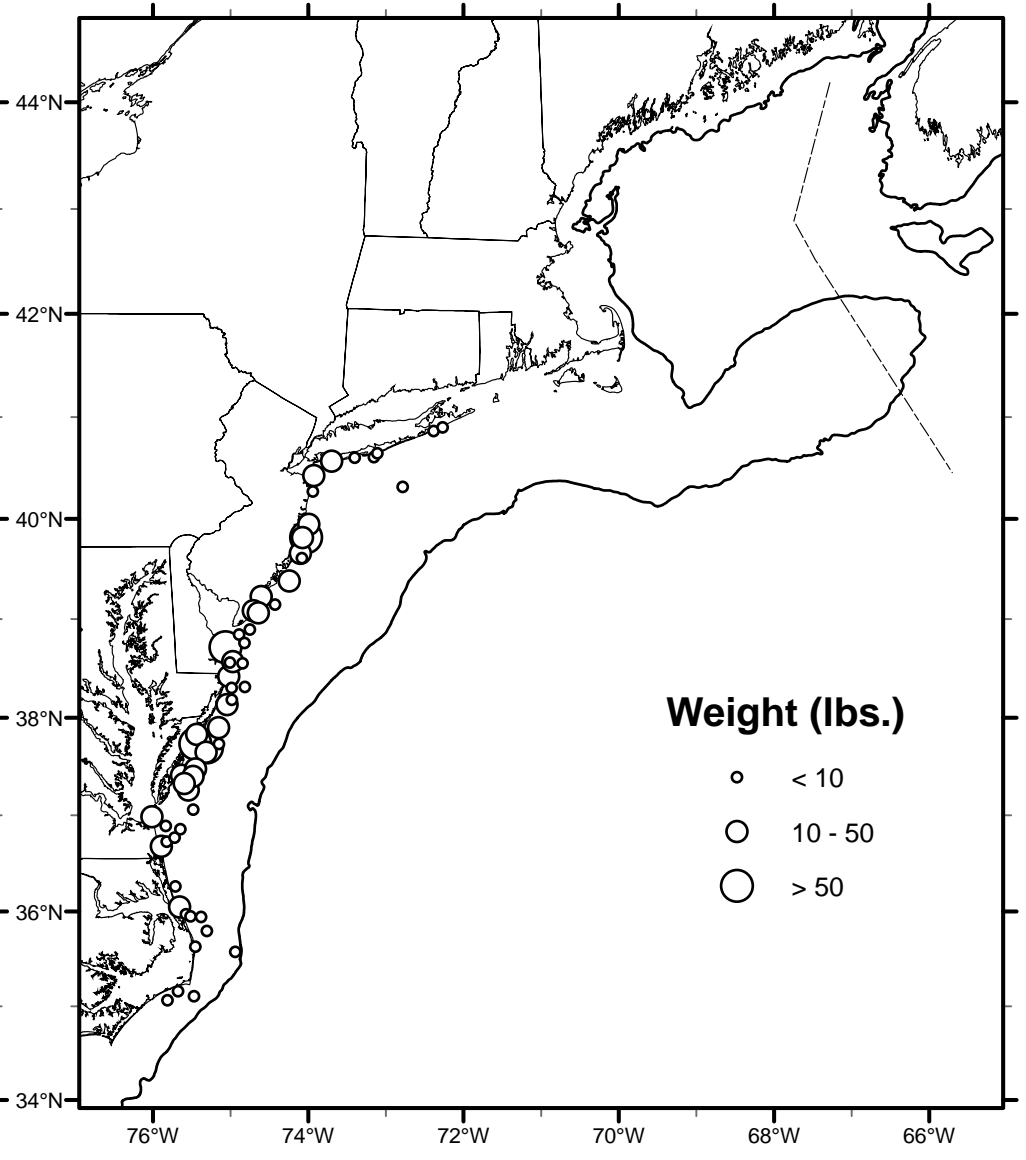




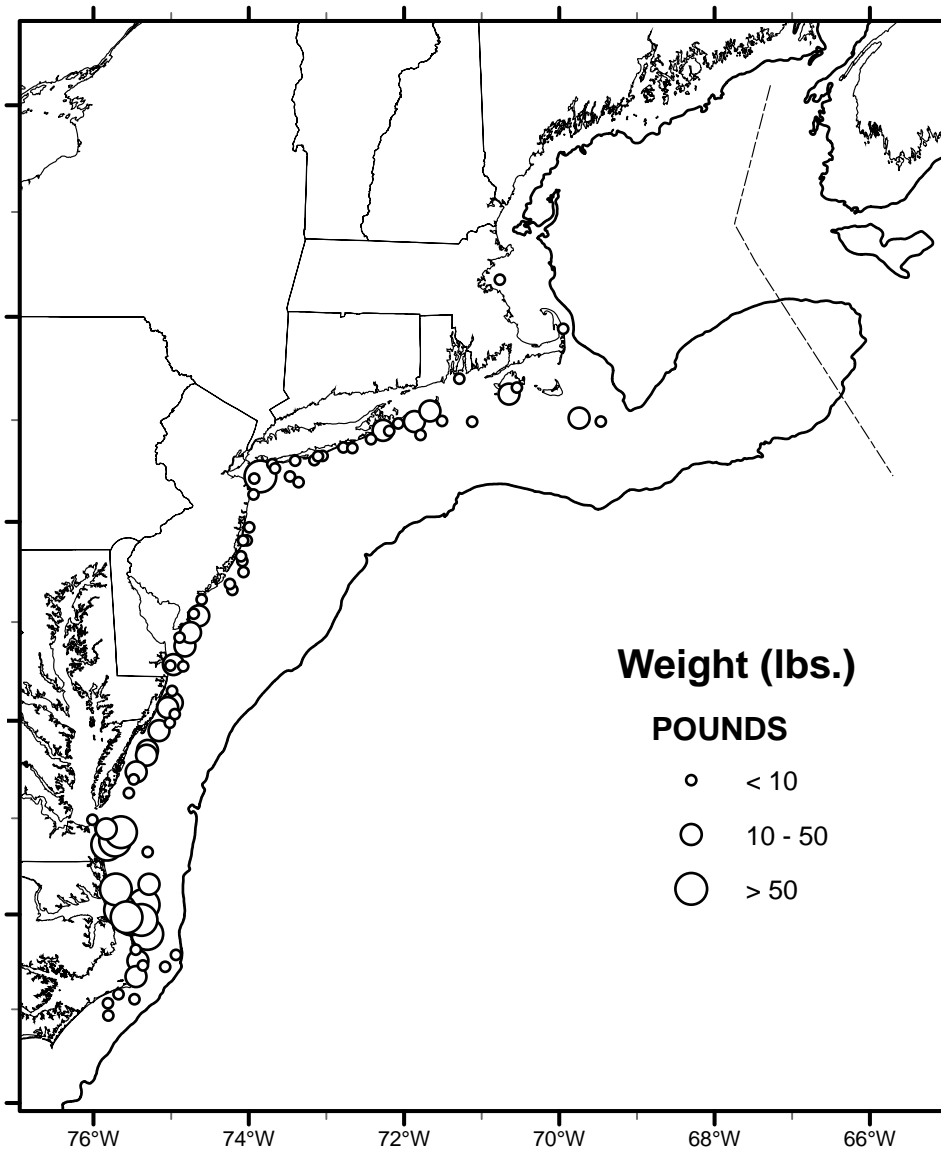
**BLUEFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



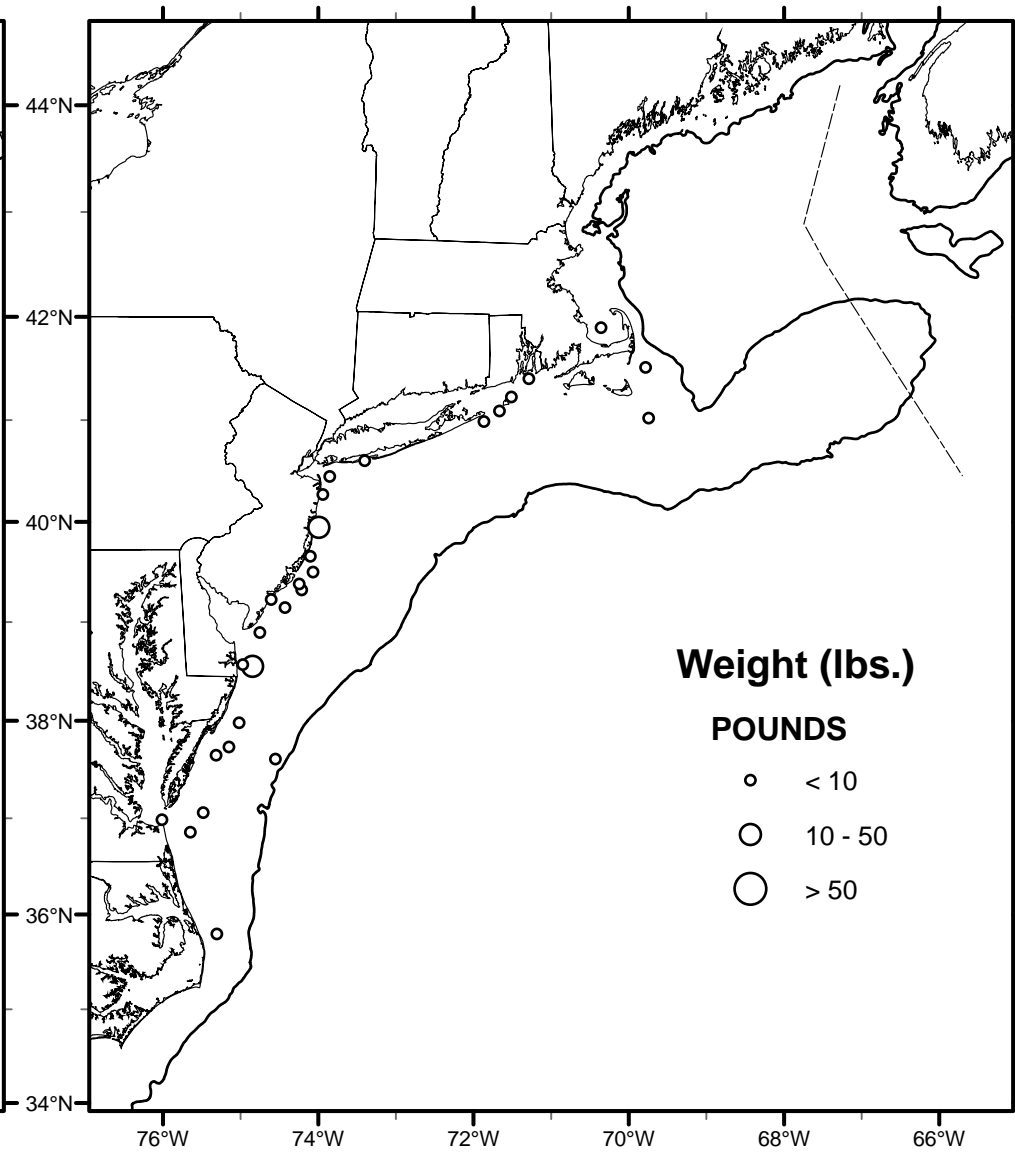
**WEAKFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



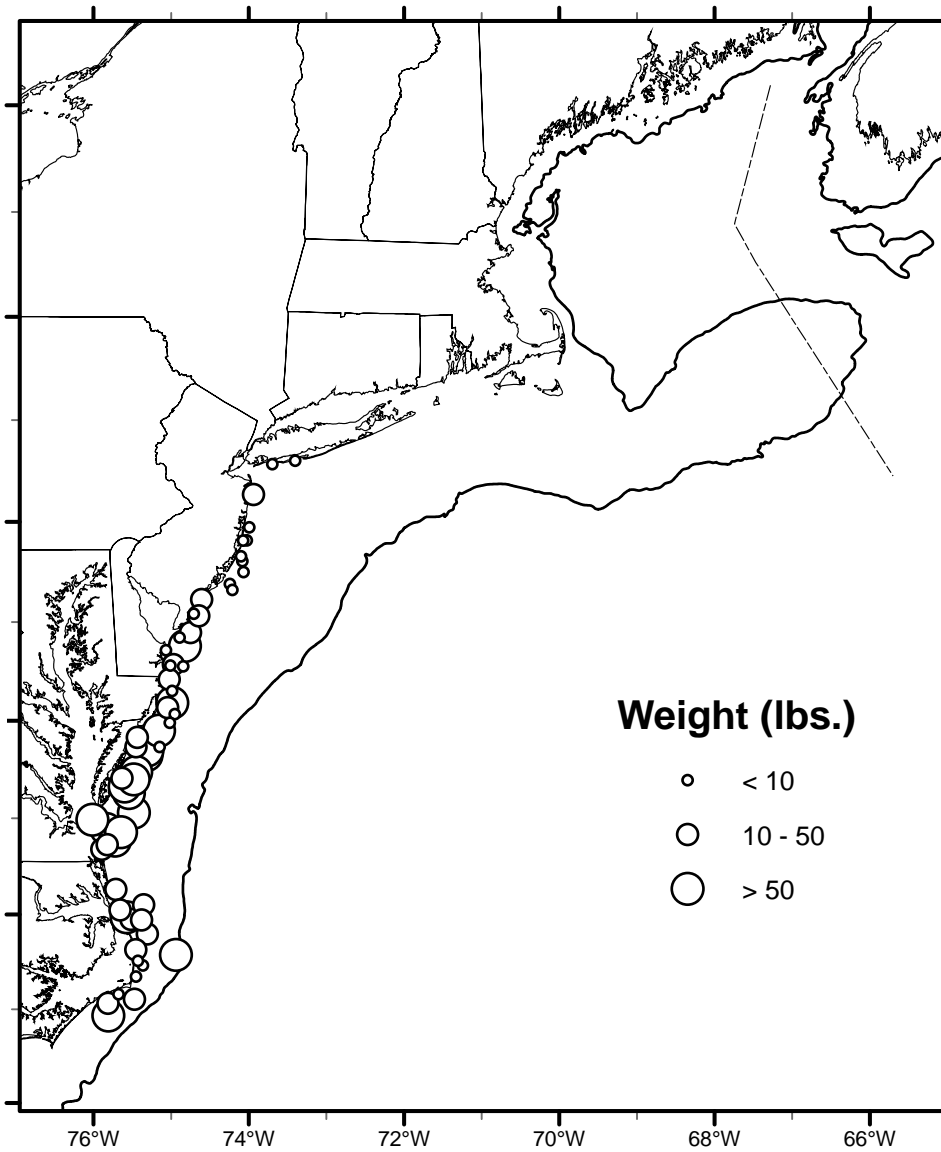
**SCUP**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



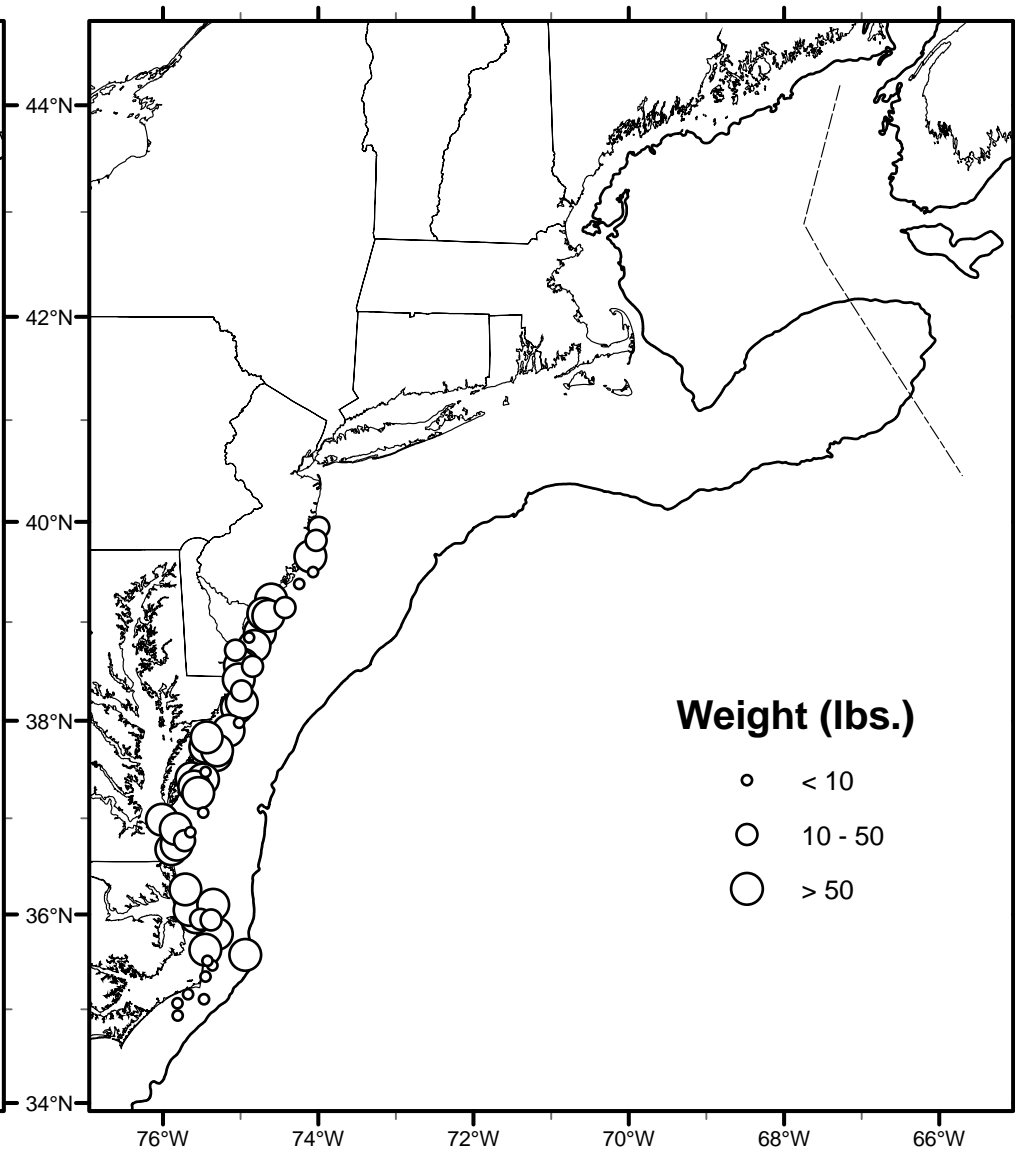
**BLACK SEA BASS**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



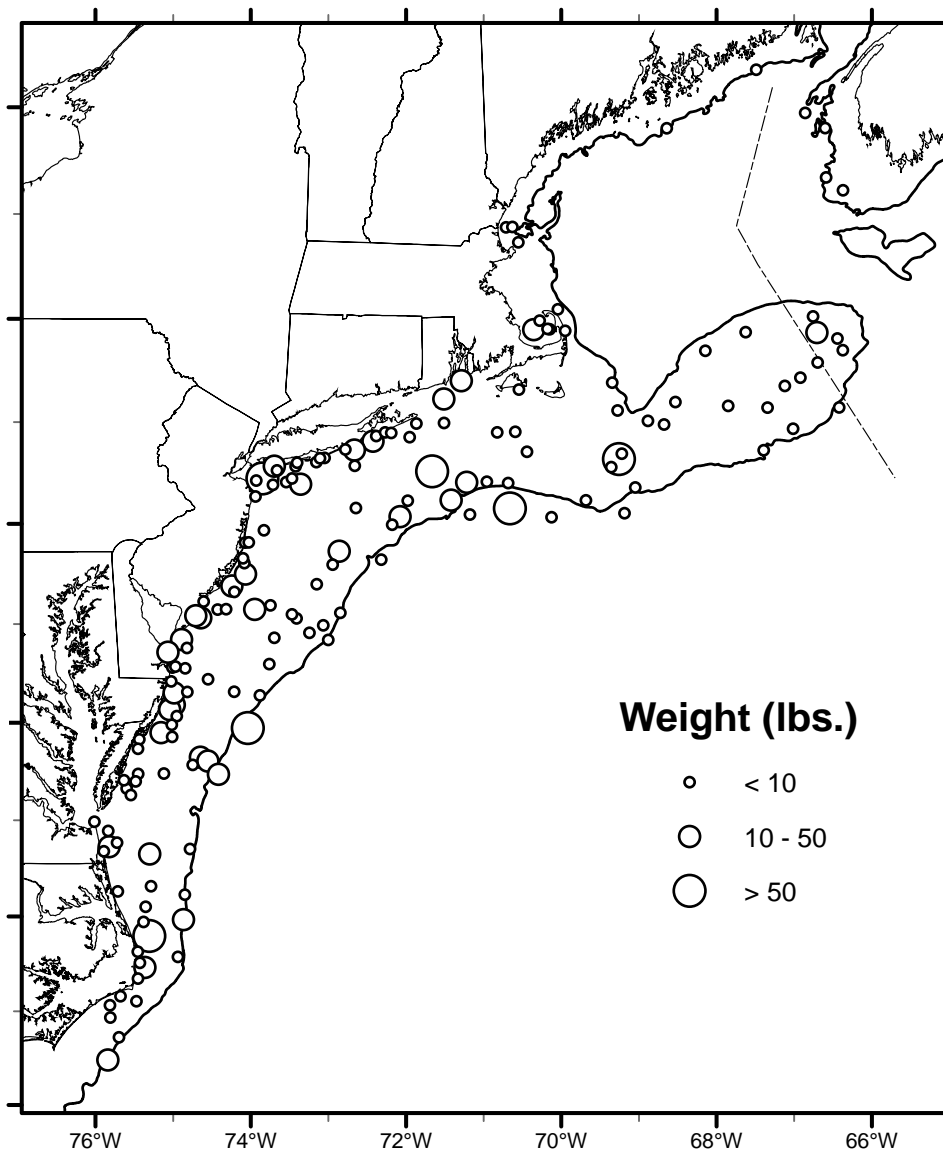
**SPOT**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



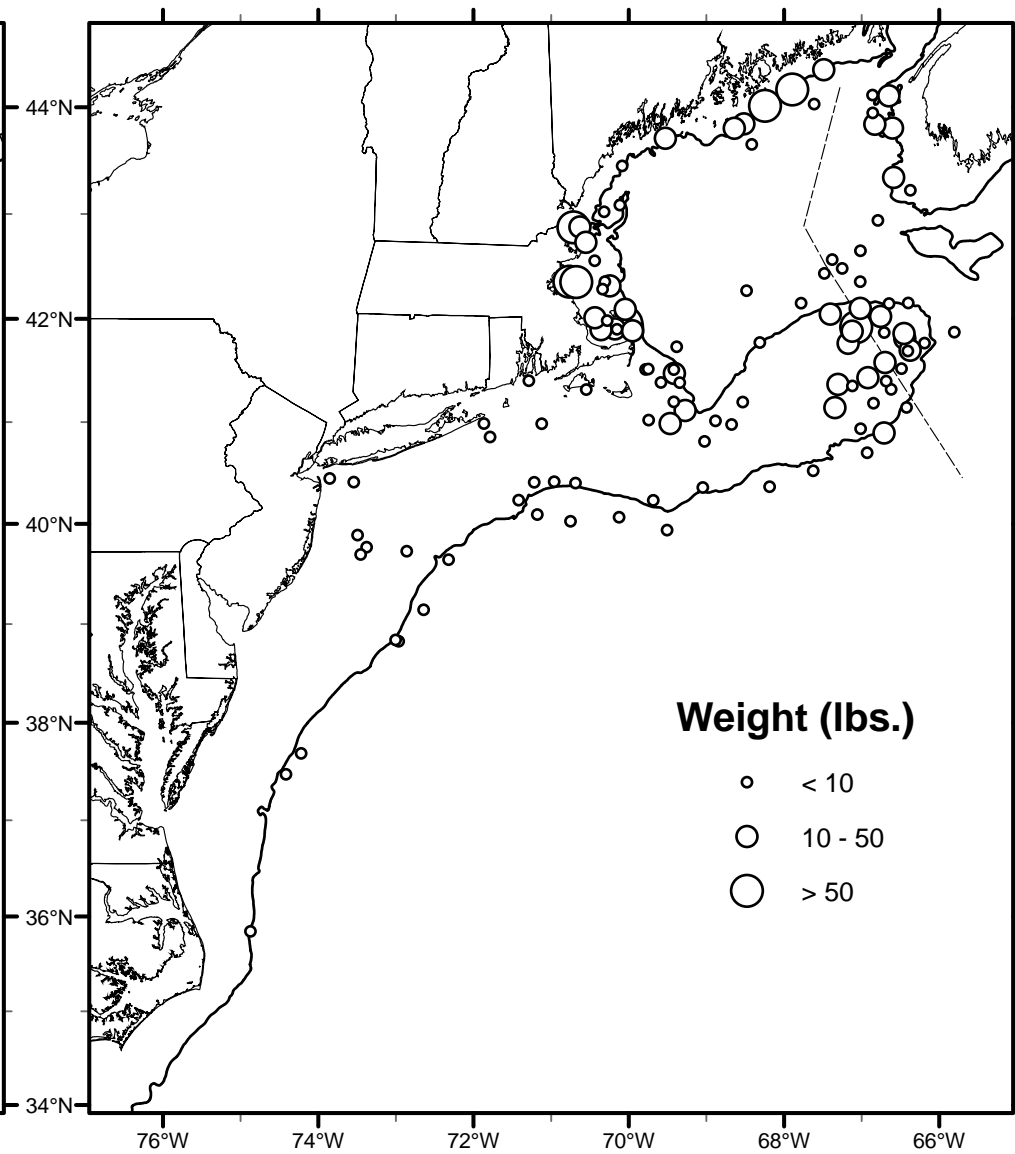
**ATLANTIC CROAKER**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



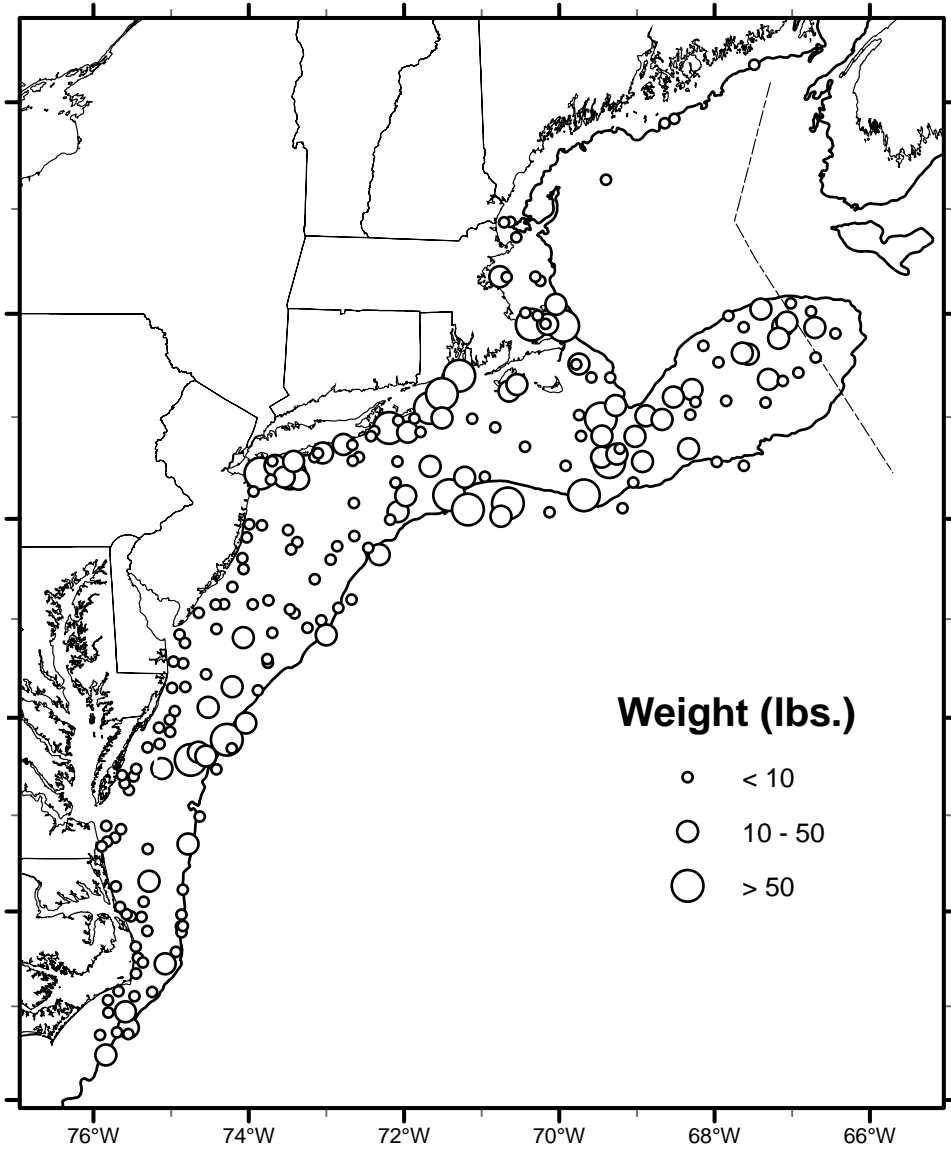
**BUTTERFISH**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



**AMERICAN LOBSTER**  
NOAA Fisheries Service  
Bottom Trawl Survey  
3 September to 8 November 2008



**LOLIGO**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**



**ILLEX**  
**NOAA Fisheries Service**  
**Bottom Trawl Survey**  
**3 September to 8 November 2008**

