RESOURCE SURVEY REPORT
Catch Summary
NOAA Fisheries Service
Northeast Fisheries Science Center
Autumn Bottom Trawl Survey
Cape Hatteras -Gulf of Maine
9 September – 14 November 2014

Submitted to: NOAA, NEFSC

For further information contact Robert Johnston (508-495-2061), NOAA Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543.

Date: 2014

Resource Survey Report

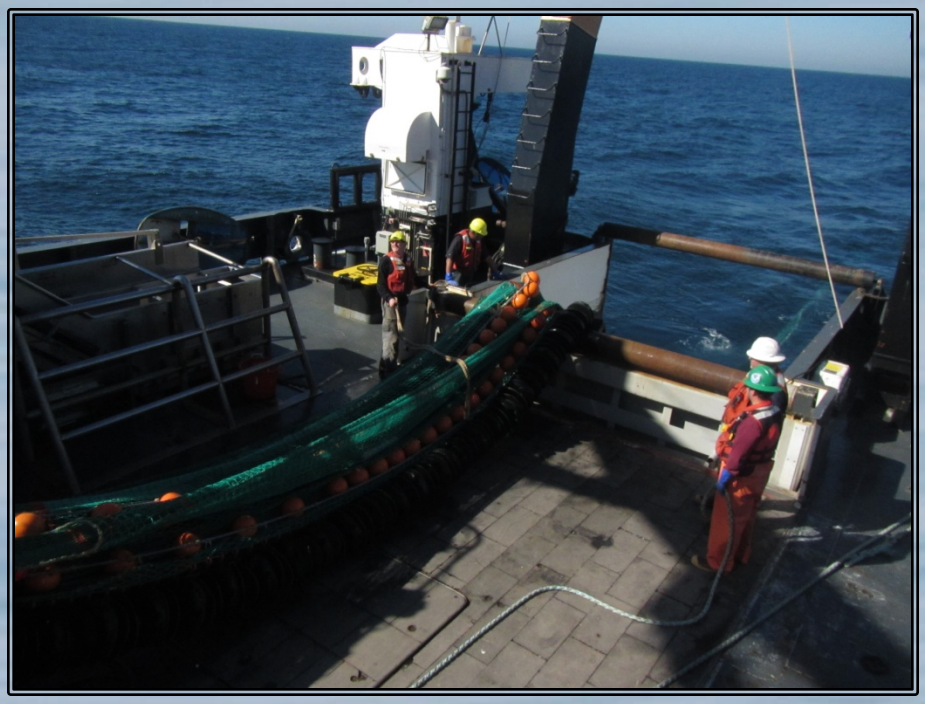
Bottom Trawl Survey

Cape Hatteras – Gulf of Maine

9 September – 14 November 2014

NOAA FSV *Henry B. Bigelow* (FSV 225)

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



The deck crew brings aboard the net on the back deck of the NOAA FSV *Henry B. Bigelow (*FSV 225)

Scientist process a winter flounder (*Pseudopleuronectes americanus)*

Atlantic mackerel (*Scomber scombrus)* caught in the Gulf of Maine

Significant Changes to the NEFSC Bottom Trawl Survey

Many significant changes in survey methodology were implemented, beginning with the 2009 Spring Multispecies Bottom Trawl Survey, that have significant implications for the use of these data. Prior to 2009, multispecies bottom trawl surveys were conducted primarily on the NOAA FSV *Albatross IV* and occasionally on the NOAA FSV *Delaware II*. The 2009 survey was conducted using the NOAA FSV *Henry B. Bigelow*, which is equipped with an autotrawl system that balances warp tensions throughout the duration of survey tows.

The bottom trawl system used for sampling has also been changed. Prior to 2009, the survey was conducted with a Yankee 36 bottom trawl and 450-kg euronet polyvalent trawl doors. Beginning in 2009, the survey is being conducted using a 400 x 12, 4-seam bottom trawl designed and extensively tested with the fishing industry, fishery management, and academic stakeholders in conjunction with the Northeast Fisheries Science Center scientists through the mid-Atlantic and New England Trawl Survey Advisory Panel. The net was extensively tested on the FSV *Delaware II* and the FSV *Henry B. Bigelow* prior to being adopted as the standard survey gear. The bottom trawl is fished with 550-kg, 2.2-m Poly-Ice oval trawl doors.

The survey towing speed was decreased from 3.8 knots prior to 2009 to 3.0 knots beginning in 2009. The new towing speed was selected after extensive scope and tow speed trials conducted on both the FSV *Delaware II* and the FSV *Henry B. Bigelow* and consideration of the range of species to be sampled. The tow duration was also changed from 30 minutes (timed from when the winches were locked until they were reengaged) to 20 minutes of actual bottom time (as determined by net monitoring systems). The adjustments to both tow speed and tow duration have resulted in a decrease of average tow distance from 1.9 nautical miles prior to 2009 to an average tow distance of 1.0 nautical miles beginning in 2009. The shorter tow distance allows us to conduct additional tows in areas that are constrained by fixed fishing gear, untrawlable bottom and steep contours along the edge of the continental shelf. While some commercial fishery stakeholders are likely to express concern about the reduction in tow duration, a preliminary analysis of the length frequency data from paired FSV *Albatross IV* and the FSV *Henry B. Bigelow* tows shows few differences in the largest sized fish of each species caught by the vessels.

Station allocation also changed significantly due to an increase in total available vessel time from 48 to 60 sea days and a reduction in inshore sampling by the FSV *Henry B. Bigelow*. At the time that inshore strata in the mid-Atlantic were historically sampled (September to early October), survey results indicate low densities of commercially and recreational species. These areas will continue to be sampled by the Northeast Area Monitoring and Assessment Program (NEAMAP) bottom trawl survey, although later in the year (late September through early October). As a result of station reallocation, station density was increased significantly in offshore strata that have historically

demonstrated higher densities of fish particularly in the mid-Atlantic and southern New England regions.

The Northeast Fisheries Science Center conducted an extensive comparison of the catchability of the FSV *Albatross IV* sampling with the Yankee 36 bottom trawl using historical protocols and the FSV *Henry B. Bigelow* sampling with the 400 x 12, 4-seam bottom trawl with revised protocols. The resulting dataset is one of the most comprehensive ever produced to study the catchability characteristics of a fisheries bottom trawl survey. A preliminary overall result is that the survey conducted by the FSV *Henry B. Bigelow* has significantly higher catch rates for nearly all species except those with very small total body size (e.g. anchovy species). The results of this study were peer reviewed in August 2009 and analytic approaches will be subsequently used to appropriately interpret pre-2009 survey results with 2009 and later results.

Given the changes in vessel, trawling gear, tow speed, tow duration, sample allocation and towing procedures, straight-forward comparisons of catches in this report with fall bottom trawl survey catches in previous Resource Survey Reports are not appropriate without employing statistical approaches that are reviewed and endorsed for stock assessment applications through peer review processes.

Russell Brown, Former Chief
Ecosystems Survey Branch

RESOURCE SURVEY REPORT
Catch Summary

NOAA Fisheries Service
Northeast Fisheries Science Center

Autumn Bottom Trawl Survey
Cape Hatteras - Gulf of Maine
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Attached are station and catch summaries and a series of geographical plots of commercially and recreationally important species caught during the Northeast Fisheries Science Center's 2014 autumn bottom trawl survey aboard the NOAA FSV *Henry B. Bigelow*. Tows were made with a NEFSC standardized 4 seam, 3 bridle otter trawl rigged with a rock hopper sweep, 550kg (1200 lbs) Poly-Ice Oval doors, and 36.6m (20 fathom) bridles. The cod end and upper belly were lined with 1/2-inch mesh to retain young-of-the-year fish.

Because of the 20-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 Robert Johnston (508-495-2061), NOAA Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report in PDF go to 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

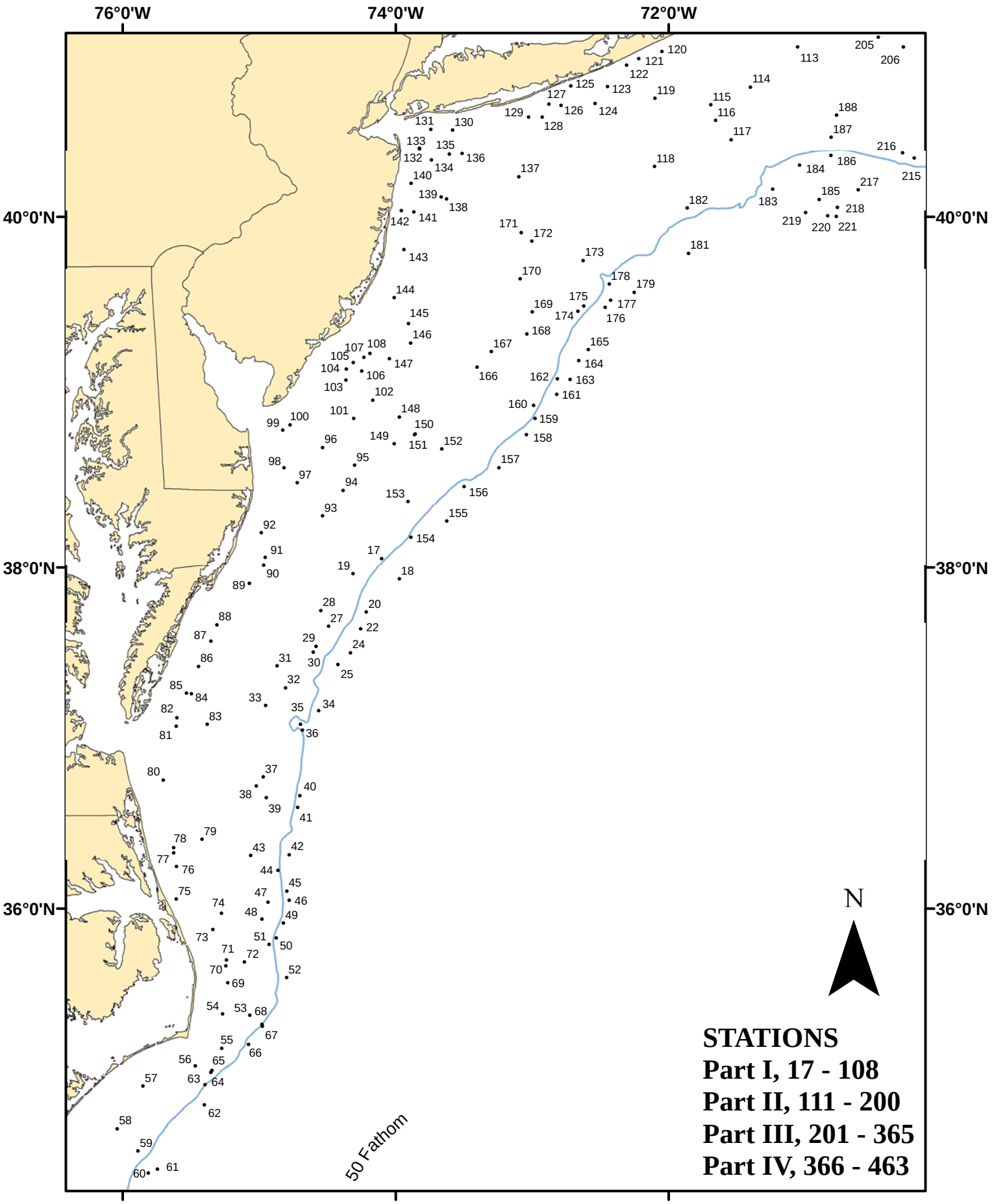

Figure 1. Trawl hauls made from NOAA FSV *Henry B. Bigelow* (14-05), during NOAA Fisheries Service, Northeast Fisheries Science Center's autumn bottom trawl survey, 9 September - 14 November 2014

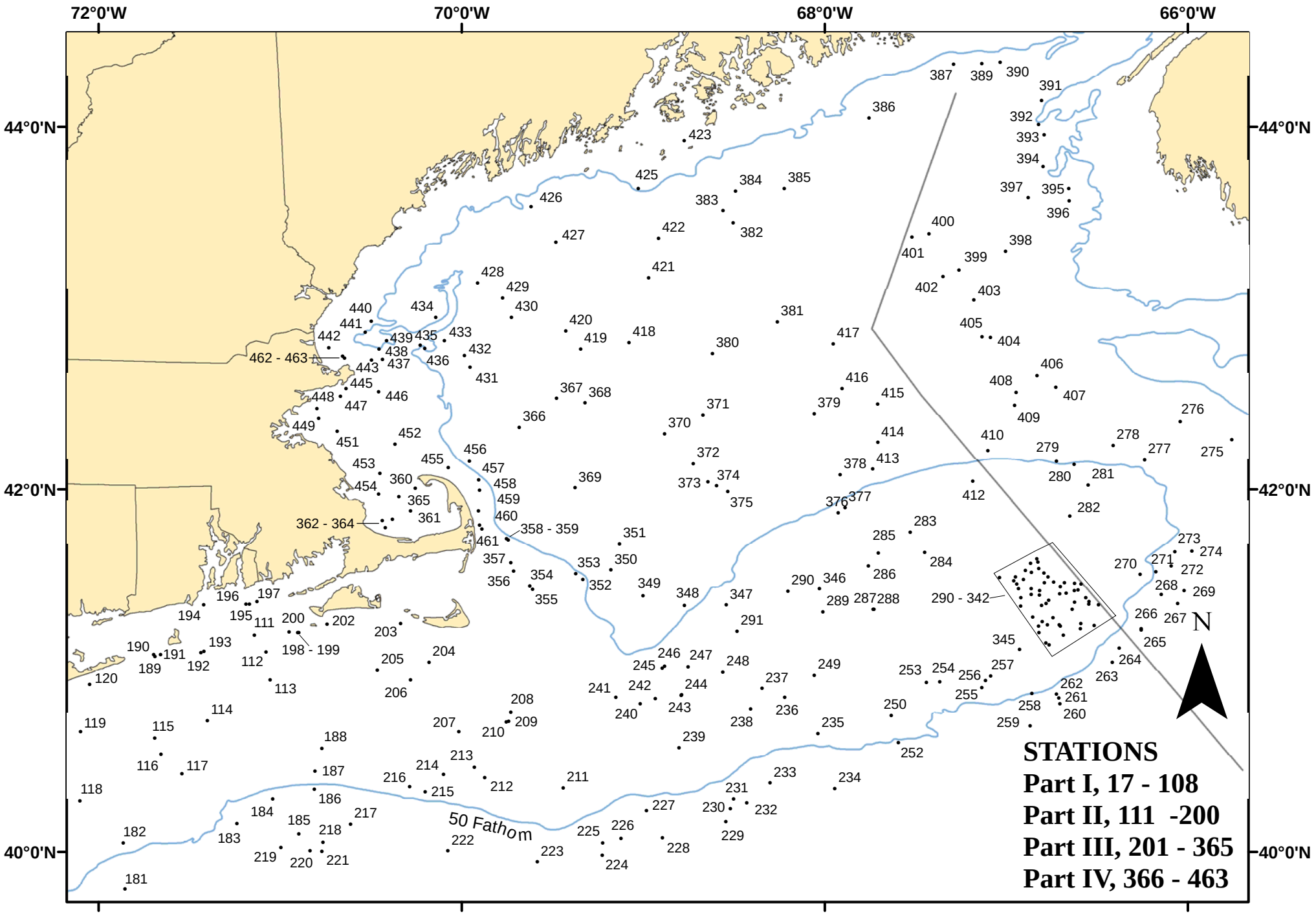

Figure 2. Trawl hauls made from NOAA FSV *Henry B. Bigelow* (14 - 05), during NOAA Fisheries Service, Northeast Fisheries Science Center's spring bottom trawl survey, 9 September - 14 November 2014

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2014 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0017	Sep-10	0710	3803.1	7406.2	X26751.7	Y42198.4	044	50.3	50.3
0018	Sep-10	0956	3756.0	7358.4	X26702.9	Y42133.9	039	119.2	53.6
0019	Sep-10	1250	3757.8	7418.7	X26810.7	Y42128.0	039	36.1	50.0
0020	Sep-10	1528	3744.5	7412.8	X26764.2	Y41995.2		75.5	55.1
0022	Sep-10	1735	3738.7	7415.4	X26770.3	Y41930.6	040	83.7	57.7
0024	Sep-10	2324	3730.4	7419.8	X26782.5	Y41836.7	025	157.2	49.9
0025	Sep-11	0137	3726.2	7425.4	X26804.3	Y41784.3	044	132.6	58.5
0027	Sep-11	0656	3739.6	7429.5	X26840.9	Y41919.1	035	38.0	51.0
0028	Sep-11	0842	3745.1	7432.9	X26865.2	Y41973.0	212	33.1	
0029	Sep-11	1050	3732.7	7435.0	X26858.4	Y41836.7	194	35.8	
0030	Sep-11	1203	3730.5	7436.2	X26861.4	Y41811.5	215	33.9	50.9
0031	Sep-11	1427	3725.7	7452.1	X26930.2	Y41733.1	223	24.6	56.5
0032	Sep-11	1646	3718.1	7448.4	X26902.4	Y41658.0	211	27.1	
0033	Sep-11	1833	3711.9	7457.2	X26933.5	Y41574.3	178	23.5	61.5
0034	Sep-11	2131	3710.1	7433.8	X26825.1	Y41599.2	184	70.0	56.3
0035	Sep-12	0020	3705.2	7441.8	X26855.4	Y41532.4	288	150.1	50.6
0036	Sep-12	0202	3703.3	7440.9	X26849.1	Y41514.6	277	48.7	55.3
0037	Sep-12	0516	3646.7	7458.2	X26904.6	Y41302.3	052	17.2	63.0
0038	Sep-12	0705	3643.5	7501.3	X26913.7	Y41262.3	035	17.8	61.7
0039	Sep-12	0839	3639.3	7456.8	X26889.8	Y41227.9	085	17.2	60.0
0040	Sep-12	1109	3640.0	7442.0	X26827.7	Y41269.8	027	80.1	56.3
0041	Sep-12	1310	3635.9	7443.1	X26828.0	Y41225.1	012	80.1	57.1
0042	Sep-12	1648	3619.3	7446.8	X26826.3	Y41048.1	015	119.8	57.6
0043	Sep-12	1923	3619.0	7503.7	X26894.3	Y41000.0	016	21.6	53.9
0044	Sep-12	2147	3613.5	7451.7	X26840.3	Y40977.2	014	46.2	55.6
0045	Sep-13	0005	3606.3	7447.8	X26817.7	Y40917.1	006	86.9	58.8
0046	Sep-13	0232	3603.1	7446.8	X26810.6	Y40888.0	012	155.3	54.1
0047	Sep-13	0429	3602.2	7456.0	X26846.1	Y40853.1	011	38.0	57.5
0048	Sep-13	0646	3556.4	7458.8	X26850.9	Y40787.6	008	29.8	60.6
0049	Sep-13	0945	3554.8	7449.3	X26812.9	Y40801.0	195	140.3	56.5
0050	Sep-13	1145	3549.6	7452.5	X26820.1	Y40741.3	168	93.2	56.8
0051	Sep-13	1311	3547.3	7455.7	X26830.3	Y40709.6	354	36.1	60.1
0052	Sep-13	1654	3535.3	7447.9	X26790.7	Y40623.3	153	71.4	57.3
0053	Sep-13	1940	3521.9	7504.1	X26838.3	Y40445.5	230	18.3	80.4
0054	Sep-13	2137	3522.4	7516.1	X26882.2	Y40407.3	195	14.8	80.6
0055	Sep-13	2346	3509.9	7516.5	X26871.8	Y40293.1	193	18.3	82.3
0056	Sep-14	0209	3503.6	7528.0	X26906.0	Y40193.1	272	15.3	81.5
0057	Sep-14	0505	3456.4	7551.0	X26976.9	Y40037.5	059	13.1	80.9
0058	Sep-14	0756	3441.0	7602.3	X26997.8	Y39856.1	044	19.7	77.5
0059	Sep-14	1002	3432.8	7553.3	X26960.2	Y39830.1	038	31.7	77.9
0060	Sep-14	1320	3424.9	7548.7	X26937.9	Y39791.2	214	124.9	61.9
0061	Sep-14	1552	3426.4	7544.7	X26926.4	Y39820.1	208	184.8	57.1
0062	Sep-14	2137	3449.5	7524.1	X26879.6	Y40089.7		186.5	52.0
0063	Sep-14	2356	3456.9	7523.7	X26885.0	Y40152.4	226	51.4	73.0
0064	Sep-15	0144	3501.4	7521.2	X26880.4	Y40200.3	221	35.5	
0065	Sep-15	0300	3502.0	7520.8	X26879.5	Y40207.4	220	35.5	77.5
0066	Sep-15	0605	3511.4	7504.7	X26831.5	Y40350.9	216	86.9	69.5

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0067	Sep-15	0821	3518.0	7458.6	X26815.2	Y40430.3	210	76.0	64.9
0068	Sep-15	0953	3518.6	7458.8	X26816.5	Y40435.1	219	62.9	73.0
0069	Sep-15	1239	3533.5	7513.8	X26884.6	Y40518.5	354	18.6	76.1
0070	Sep-15	1408	3539.5	7514.6	X26893.9	Y40573.5	001	18.3	76.1
0071	Sep-15	1520	3541.7	7514.3	X26894.9	Y40595.9	355	19.7	76.0
0072	Sep-15	1708	3540.9	7506.5	X26864.9	Y40613.3	014	20.2	73.7
0073	Sep-15	2014	3552.6	7520.4	X26929.4	Y40684.4	013	15.6	74.2
0074	Sep-15	2142	3558.3	7516.5	X26921.2	Y40753.5	002	15.6	74.3
0075	Sep-16	0102	3603.5	7536.4	X27003.4	Y40749.2	167	13.4	74.7
0076	Sep-16	0359	3615.0	7536.3	X27018.5	Y40872.1	300	14.2	74.4
0077	Sep-16	0521	3619.9	7537.6	X27030.2	Y40922.0	357	12.3	74.5
0078	Sep-16	0649	3621.7	7537.5	X27032.5	Y40941.2	359	12.8	74.6
0079	Sep-16	0857	3624.7	7525.1	X26987.1	Y41004.7	254	13.1	73.5
0080	Sep-16	1209	3645.5	7542.1	X27086.6	Y41193.1	288	10.4	74.5
0081	Sep-16	1511	3704.5	7536.4	X27094.2	Y41418.5		12.0	74.1
0082	Sep-16	1713	3707.6	7536.2	X27098.4	Y41454.5	128	10.9	74.5
0083	Sep-16	1918	3705.3	7522.8	X27037.0	Y41453.5	061	15.6	73.3
0084	Sep-16	2114	3716.0	7529.7	X27085.2	Y41561.1	034	12.8	74.3
0085	Sep-16	2223	3716.3	7532.0	X27095.4	Y41560.0	274	10.9	74.4
0086	Sep-17	0044	3725.6	7526.6	X27088.1	Y41674.4	062	12.6	74.5
0087	Sep-17	0238	3734.5	7521.2	X27079.7	Y41783.4	014	13.7	74.0
0088	Sep-17	0438	3740.1	7518.5	X27077.6	Y41851.3	023	12.6	73.8
0089	Sep-17	0712	3754.6	7504.3	X27035.9	Y42034.2	043	13.7	72.6
0090	Sep-17	0844	3800.9	7458.0	X27016.5	Y42112.9	014	12.3	72.5
0091	Sep-17	0948	3803.5	7457.3	X27017.8	Y42143.4	035	13.4	72.2
0092	Sep-17	1125	3811.9	7459.0	X27042.5	Y42235.4	047	12.8	72.1
0093	Sep-17	1431	3817.8	7432.1	X26911.3	Y42328.2	034	24.1	61.3
0094	Sep-17	1659	3826.8	7423.0	X26876.6	Y42433.7	012	27.9	57.0
0095	Sep-17	1848	3835.3	7418.0	X26862.7	Y42530.0	274	24.9	56.1
0096	Sep-17	2108	3841.5	7432.0	X26953.8	Y42587.1	232	18.3	69.7
0097	Sep-17	2333	3829.3	7443.3	X26992.9	Y42443.9	317	17.8	72.6
0098	Sep-18	0110	3834.5	7449.0	X27034.9	Y42497.2	173	13.9	72.7
0099	Sep-18	0406	3847.5	7449.6	X27066.3	Y42642.5	128	9.6	72.6
0100	Sep-18	0542	3849.3	7446.4	X27052.1	Y42664.2	222	10.1	72.5
0101	Sep-18	0852	3851.6	7418.4	X26893.1	Y42704.8	034	19.7	70.0
0102	Sep-18	1047	3857.8	7410.1	X26854.4	Y42775.1	043	18.6	61.2
0103	Sep-18	1325	3904.6	7421.8	X26939.5	Y42844.6	040	15.6	71.4
0104	Sep-18	1452	3908.2	7421.6	X26945.6	Y42883.6		15.6	72.1
0105	Sep-18	1641	3910.6	7418.6	X26932.0	Y42909.7	092	13.1	71.8
0106	Sep-18	1758	3907.8	7414.9	X26902.8	Y42880.5		13.4	72.0
0107	Sep-18	1927	3912.3	7413.9	X26905.8	Y42929.1	064	12.8	71.9
0108	Sep-18	2020	3913.6	7411.3	X26891.8	Y42943.4	062	15.9	
0111	Sep-23	1844	4111.8	7108.6	X25626.6	Y43861.1	133	20.2	
0112	Sep-23	2015	4106.1	7104.7	X25583.1	Y43815.4	122	19.7	60.7
0113	Sep-23	2221	4056.9	7103.3	X25563.9	Y43747.6	342	27.3	57.7
0114	Sep-24	0145	4043.5	7124.0	X25737.7	Y43672.8	329	33.4	56.2

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2014 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0115	Sep-24	0419	4037.6	7141.5	X25881.2	Y43646.3	025	39.4	55.4
0116	Sep-24	0703	4032.4	7139.4	X25863.1	Y43602.8	021	40.5	55.1
0117	Sep-24	0935	4026.0	7132.5	X25808.4	Y43545.1	350	42.9	55.2
0118	Sep-24	1350	4016.8	7206.2	X26073.6	Y43501.2	083	34.4	53.7
0119	Sep-24	1707	4039.7	7206.0	X26087.7	Y43691.5	090	28.2	56.9
0120	Sep-24	1943	4055.5	7203.0	X26082.2	Y43814.7	091	15.3	68.5
0121	Sep-24	2129	4053.0	7213.1	X26166.1	Y43808.4	083	15.3	67.3
0122	Sep-24	2302	4050.9	7218.5	X26209.0	Y43798.9	077	14.5	65.8
0123	Sep-25	0118	4043.7	7226.8	X26268.7	Y43749.9	084	19.1	64.3
0124	Sep-25	0312	4038.1	7232.4	X26307.0	Y43709.5	091	20.0	59.8
0125	Sep-25	0532	4044.0	7243.0	X26406.0	Y43773.2	069	13.7	67.3
0126	Sep-25	0734	4037.5	7247.3	X26429.7	Y43721.8	072	18.6	68.6
0127	Sep-25	0901	4037.9	7252.6	X26474.8	Y43732.2	068	17.0	67.6
0128	Sep-25	1057	4033.6	7255.6	X26491.5	Y43697.8	081	19.4	65.5
0129	Sep-25	1248	4033.5	7301.6	X26540.3	Y43703.2	091	15.3	67.6
0130	Sep-25	1702	4029.1	7335.0	X26800.0	Y43700.6	109	13.1	68.4
0131	Sep-25	1852	4029.3	7344.6	X26876.5	Y43712.7	100	13.9	67.4
0132	Sep-25	2051	4023.0	7349.5	X26897.9	Y43655.1	012	18.0	
0133	Sep-25	2152	4022.8	7349.5	X26897.8	Y43653.1	005	18.0	
0134	Sep-26	0042	4019.2	7344.3	X26848.1	Y43612.3	082	14.5	68.3
0135	Sep-26	0214	4021.2	7336.4	X26792.1	Y43624.7	095	13.1	67.0
0136	Sep-26	0325	4021.2	7330.8	X26748.9	Y43620.2	088	15.3	67.2
0137	Sep-26	0708	4013.5	7305.8	X26538.4	Y43523.9	086	24.6	55.0
0138	Sep-26	1041	4006.1	7337.7	X26767.9	Y43477.9	118	24.6	59.7
0139	Sep-26	1223	4006.7	7340.0	X26786.7	Y43485.6	116	21.9	62.7
0140	Sep-26	1506	4011.3	7353.2	X26896.4	Y43541.1	083	12.6	67.9
0141	Sep-26	1733	4001.8	7352.0	X26864.3	Y43443.3	075	13.9	68.4
0142	Sep-26	1932	4002.1	7357.4	X26905.0	Y43450.1	058	12.8	69.0
0143	Sep-26	2201	3948.8	7356.3	X26866.0	Y43312.8	013	12.3	68.5
0144	Sep-27	0054	3932.6	7400.7	X26861.3	Y43145.3	080	13.7	69.7
0145	Sep-27	0257	3923.8	7354.3	X26801.7	Y43053.1	091	15.9	68.1
0146	Sep-27	0437	3917.2	7353.4	X26783.7	Y42984.4	093	19.4	68.0
0147	Sep-27	0700	3911.8	7402.7	X26834.2	Y42925.8	086	14.5	67.8
0148	Sep-27	1259	3852.0	7358.4	X26773.9	Y42718.5	066	23.5	63.7
0149	Sep-27	1507	3842.7	7400.7	X26773.8	Y42620.0	106	27.3	59.0
0150	Sep-27	1747	3846.0	7351.7	X26725.1	Y42658.9	080	24.9	
0151	Sep-27	1945	3846.0	7351.4	X26723.6	Y42659.7	080	25.4	59.0
0152	Sep-27	2159	3841.0	7339.7	X26647.6	Y42613.9	210	34.2	55.1
0153	Sep-28	0102	3822.9	7354.5	X26712.0	Y42416.8	095	36.6	55.2
0154	Sep-28	0336	3810.4	7353.3	X26691.1	Y42288.9	356	76.6	56.2
0155	Sep-28	0740	3816.1	7337.5	X26609.9	Y42362.0	354	143.5	51.4
0156	Sep-28	1107	3828.1	7329.9	X26577.6	Y42489.5	018	160.2	55.3
0157	Sep-28	1336	3834.5	7314.6	X26494.1	Y42564.0	024	84.8	54.2
0158	Sep-28	1606	3845.8	7302.5	X26428.4	Y42680.8	015	117.6	52.7
0159	Sep-28	1802	3851.5	7258.6	X26408.0	Y42737.6		62.3	56.6
0160	Sep-28	1937	3855.9	7259.4	X26414.9	Y42779.7		48.1	56.6
0161	Sep-28	2201	3859.7	7249.1	X26352.6	Y42818.7	228	104.2	54.9

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0162	Sep-29	0007	3905.1	7248.9	X26353.1	Y42869.9	199	64.5	56.7
0163	Sep-29	0204	3904.9	7243.3	X26317.5	Y42868.4	213	109.4	
0164	Sep-29	0410	3911.2	7239.5	X26295.1	Y42927.9	029	76.3	55.2
0165	Sep-29	0536	3915.0	7235.3	X26268.7	Y42963.4	026	78.7	55.7
0166	Sep-29	0957	3909.1	7324.2	X26583.2	Y42903.7	070	31.7	55.6
0167	Sep-29	1121	3914.2	7317.9	X26547.4	Y42955.8	042	32.0	56.7
0168	Sep-29	1315	3920.2	7302.3	X26449.8	Y43014.5	053	38.0	54.8
0169	Sep-29	1508	3927.8	7260.0	X26440.1	Y43086.4	044	35.5	54.1
0170	Sep-29	1709	3939.1	7305.2	X26487.4	Y43196.4	314	23.5	58.1
0171	Sep-29	1922	3954.7	7304.8	X26502.6	Y43345.3	321	36.9	53.9
0172	Sep-29	2101	3951.8	7300.1	X26465.0	Y43315.8	119	40.2	53.6
0173	Sep-29	2336	3945.3	7237.6	X26295.3	Y43243.8	209	39.9	54.1
0174	Sep-30	0218	3928.1	7239.8	X26302.6	Y43086.1	054	48.4	56.1
0175	Sep-30	0333	3929.8	7237.3	X26285.8	Y43100.6	052	47.6	56.0
0176	Sep-30	0509	3929.3	7227.9	X26222.0	Y43094.2	047	64.2	56.8
0177	Sep-30	0734	3931.7	7225.5	X26205.5	Y43115.7	338	114.3	52.0
0178	Sep-30	1014	3937.2	7226.1	X26210.5	Y43165.4	176	168.4	51.3
0179	Sep-30	1251	3934.5	7215.1	X26134.9	Y43137.7	072	69.2	55.4
0181	Sep-30	1857	3947.7	7151.3	X25965.9	Y43243.2	038	112.4	54.2
0182	Sep-30	2148	4002.9	7151.9	X25963.7	Y43372.1		47.8	55.7
0183	Oct-01	0147	4009.4	7114.3	X25685.6	Y43399.2	349	61.8	55.2
0184	Oct-01	0354	4017.5	7102.4	X25590.4	Y43452.6	059	56.6	55.1
0185	Oct-01	0735	4005.9	7053.8	X25552.8	Y43358.0		81.5	56.4
0186	Oct-01	1103	4020.6	7048.7	X25489.4	Y43465.8	064	54.4	55.2
0187	Oct-01	1349	4026.8	7048.5	X25475.9	Y43511.2	102	45.9	56.7
0188	Oct-01	1548	4034.2	7046.2	X25445.5	Y43563.7	040	38.5	57.9
0189	Oct-01	2211	4104.6	7141.4	X25907.3	Y43854.5	034	19.4	65.6
0190	Oct-01	2330	4105.3	7141.7	X25911.7	Y43860.6	057	17.2	65.5
0191	Oct-02	0050	4105.4	7139.5	X25892.4	Y43858.2	092	19.7	65.6
0192	Oct-02	0303	4106.3	7125.2	X25766.4	Y43844.7	356	18.0	
0193	Oct-02	0407	4105.9	7126.2	X25774.3	Y43843.1	015	18.3	65.4
0194	Oct-02	0658	4121.9	7125.2	X25800.3	Y43956.9	004	18.0	65.6
0195	Oct-02	0905	4122.0	7110.2	X25664.7	Y43934.5	057	16.1	
0196	Oct-02	1059	4122.1	7111.3	X25675.1	Y43936.8	075	14.5	
0197	Oct-02	1230	4122.9	7107.7	X25645.2	Y43937.2	066	13.9	65.0
0198	Oct-02	1640	4112.6	7054.2	X25498.2	Y43846.6	045	17.0	
0199	Oct-02	1903	4112.5	7053.8	X25495.1	Y43845.9	043	15.3	
0200	Oct-02	2113	4112.9	7057.0	X25524.2	Y43852.4	024	19.4	
0202	Oct-07	1832	4115.3	7044.5	X25416.2	Y43852.2	242	15.3	64.3
0203	Oct-07	2130	4115.6	7020.2	X25196.2	Y43822.1	276	11.2	63.4
0204	Oct-07	2344	4102.7	7010.8	X25123.4	Y43726.0	177	14.2	62.2
0205	Oct-08	0156	4100.1	7027.8	X25261.3	Y43727.8	192	23.5	62.6
0206	Oct-08	0349	4056.9	7016.9	X25182.7	Y43693.6	145	21.3	61.5
0207	Oct-08	0659	4039.7	7001.0	X25150.2	Y43561.1	103	27.3	61.2
0208	Oct-08	1049	4046.2	6943.8	W13990.8	Y43588.5	117	21.3	60.6
0209	Oct-08	1240	4043.2	6944.5	W14005.6	Y43569.4	253	24.6	
0210	Oct-08	1344	4042.9	6945.3	W14010.5	Y43568.4	069	24.6	62.9

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0211	Oct-08	1800	4021.1	6926.4	W13990.8	Y43408.7	060	40.5	59.5
0212	Oct-08	2117	4024.5	6952.4	W14112.0	Y43450.2	272	42.4	58.4
0213	Oct-08	2248	4028.1	6955.8	W14118.2	Y43477.0	285	39.4	59.2
0214	Oct-09	0041	4025.6	7006.0	X25223.4	Y43467.5	264	40.2	58.4
0215	Oct-09	0300	4019.8	7012.1	X25272.0	Y43431.3	283	46.8	57.2
0216	Oct-09	0417	4021.6	7017.2	X25293.1	Y43448.4	291	45.9	57.8
0217	Oct-09	0708	4009.1	7036.7	X25439.2	Y43370.8	210	67.8	56.0
0218	Oct-09	1007	4003.3	7045.8	X25508.3	Y43332.8	297	80.9	58.0
0219	Oct-09	1311	4001.5	7059.8	X25599.8	Y43327.6	295	150.1	52.6
0220	Oct-09	1539	4000.3	7050.2	X25541.4	Y43312.7	264	156.1	52.7
0221	Oct-09	1752	4000.2	7046.3	X25517.8	Y43309.9	276	151.2	53.4
0222	Oct-09	2206	4000.3	7004.6	X25298.1	Y43287.7	294	93.2	57.7
0223	Oct-10	0356	3956.7	6935.0	W14113.2	Y43248.0		147.9	52.0
0224	Oct-10	0749	3959.0	6913.6	W14001.3	Y43254.2		161.6	43.2
0225	Oct-10	0947	4003.1	6913.4	W13987.4	Y43281.4	239	74.6	54.1
0226	Oct-10	1213	4004.4	6907.3	W13953.5	Y43287.5	237	85.3	54.9
0227	Oct-10	1443	4013.7	6858.9	W13881.5	Y43343.8	269	65.1	55.7
0228	Oct-10	1801	4004.6	6853.7	W13887.8	Y43282.4	056	117.6	56.3
0229	Oct-10	2133	4010.1	6832.7	W13771.1	Y43307.6	341	108.0	54.6
0230	Oct-10	2342	4014.4	6831.2	W13748.8	Y43333.3	333	107.2	49.8
0231	Oct-11	0129	4017.5	6830.1	W13732.2	Y43352.6	230	72.5	57.4
0232	Oct-11	0306	4016.2	6825.8	W13717.2	Y43342.1	079	81.2	56.0
0233	Oct-11	0453	4022.8	6818.1	W13657.6	Y43378.0	050	67.0	57.6
0234	Oct-11	0745	4021.0	6756.7	W13569.1	Y43355.9	050	78.7	56.0
0235	Oct-11	1021	4039.1	6802.3	W13522.6	Y43465.8	279	47.6	55.0
0236	Oct-11	1335	4051.2	6813.2	W13522.4	Y43544.3	340	28.4	59.5
0237	Oct-11	1606	4054.1	6820.7	W13545.2	Y43566.9	040	29.3	61.8
0238	Oct-11	1755	4047.4	6824.5	W13590.8	Y43530.0	064	31.4	61.3
0239	Oct-11	2056	4034.5	6848.2	W13753.9	Y43468.9	101	36.6	62.5
0240	Oct-11	2349	4049.0	6900.9	W13760.0	Y43569.0	177	41.6	60.8
0241	Oct-12	0315	4051.2	6909.1	W13792.2	Y43589.6	006	36.6	
0242	Oct-12	0645	4050.8	6856.0	W13728.2	Y43576.1	269	39.1	60.9
0243	Oct-12	0852	4052.1	6847.4	W13680.7	Y43576.4	015	36.4	
0244	Oct-12	0947	4051.8	6847.5	W13682.4	Y43574.8	017	36.1	61.2
0245	Oct-12	1206	4100.9	6853.7	W13675.6	Y43635.4	187	38.3	
0246	Oct-12	1353	4101.4	6852.9	W13669.5	Y43637.9	255	37.2	61.3
0247	Oct-12	1548	4101.2	6845.2	W13632.5	Y43629.5	283	34.7	61.8
0248	Oct-12	1802	4059.5	6833.7	W13583.8	Y43609.1	312	30.6	62.5
0249	Oct-12	2146	4058.4	6803.5	W13447.4	Y43578.1	093	28.2	61.5
0250	Oct-13	0105	4045.2	6738.1	W13391.6	Y43484.9	312	41.8	53.5
0252	Oct-13	0313	4036.2	6735.7	W13418.4	Y43432.6	258	52.5	52.3
0253	Oct-13	0644	4056.1	6726.4	W13295.5	Y43537.9	031	41.0	57.1
0254	Oct-13	0810	4056.3	6722.0	W13275.8	Y43536.3	050	42.7	57.5
0255	Oct-13	1012	4054.4	6708.1	W13227.2	Y43516.6	077	46.8	53.9
0256	Oct-13	1142	4056.8	6706.9	W13212.1	Y43528.4	110	44.8	55.6
0257	Oct-13	1304	4058.2	6705.2	W13199.1	Y43534.9	129	43.5	54.9
0258	Oct-13	1525	4052.5	6651.5	W13169.8	Y43495.8	243	51.4	52.0

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0259	Oct-13	1828	4041.7	6652.1	W13217.8	Y43438.9	051	110.2	54.4
0260	Oct-13	2037	4049.0	6642.2	W13149.0	Y43471.8	231	106.9	53.1
0261	Oct-13	2203	4051.0	6642.7	W13141.9	Y43482.8	055	67.0	54.1
0262	Oct-13	2331	4052.3	6643.5	W13139.2	Y43490.2	055	59.3	52.9
0263	Oct-14	0347	4102.8	6625.0	W13024.1	Y43533.1	172	175.8	45.6
0264	Oct-14	0555	4107.4	6622.7	W12995.0	Y43555.2	229	76.8	51.6
0265	Oct-14	0836	4113.9	6615.4	W12939.4	Y43582.9	015	110.5	
0266	Oct-14	1008	4113.5	6615.4	W12941.1	Y43581.2	012	116.2	51.7
0267	Oct-14	1241	4122.3	6603.4	W12858.7	Y43616.1	215	124.9	49.1
0268	Oct-14	1441	4125.3	6608.8	W12863.4	Y43634.5	090	71.1	51.4
0269	Oct-14	1652	4126.5	6601.2	W12831.4	Y43635.1		88.9	51.6
0270	Oct-14	1923	4131.8	6615.7	W12857.3	Y43671.2	081	49.5	51.5
0271	Oct-14	2043	4132.7	6610.6	W12834.9	Y43671.6	046	52.2	50.8
0272	Oct-14	2204	4134.7	6605.5	W12807.7	Y43677.5	020	53.9	51.0
0273	Oct-14	2346	4139.3	6604.3	W12781.3	Y43698.8	075	52.2	51.0
0274	Oct-15	0115	4139.6	6558.7	W12760.9	Y43695.8	032	55.2	51.2
0275	Oct-15	0653	4216.4	6545.5	W12534.9	Y43853.4	331	119.2	52.3
0276	Oct-15	0940	4222.4	6602.5	W12558.4	Y43895.3	167	140.5	49.3
0277	Oct-15	1243	4209.9	6614.3	W12663.2	Y43849.9	107	110.2	48.2
0278	Oct-15	1456	4214.5	6624.7	W12675.6	Y43880.7	270	129.9	49.4
0279	Oct-15	1722	4209.3	6643.5	W12771.4	Y43874.7	268	65.3	46.3
0280	Oct-15	1924	4208.4	6637.6	W12754.3	Y43864.7		52.5	47.7
0281	Oct-15	2112	4201.5	6632.9	W12773.1	Y43827.8	347	43.7	55.5
0282	Oct-15	2325	4151.0	6639.0	W12848.2	Y43783.5	065	39.1	58.8
0283	Oct-16	0503	4145.8	6731.8	W13087.0	Y43806.6	237	30.6	62.1
0284	Oct-16	0706	4139.1	6727.0	W13099.7	Y43767.7	321	33.4	62.5
0285	Oct-16	0927	4139.0	6742.2	W13166.1	Y43781.6	329	17.2	62.2
0286	Oct-16	1228	4134.6	6745.6	W13202.0	Y43761.9	157	22.1	62.5
0287	Oct-16	1523	4120.3	6743.7	W13261.2	Y43683.7	238	22.4	
0288	Oct-16	1650	4120.2	6744.0	W13263.0	Y43683.4	236	22.7	63.4
0289	Oct-16	2046	4119.4	6800.6	W13341.3	Y43693.8	279	22.7	63.6
0290	Oct-16	2336	4126.3	6812.2	W13362.9	Y43742.7	163	24.9	
0291	Oct-17	0417	4113.0	6829.0	W13502.9	Y43683.7	207	33.1	62.5
0292	Oct-17	1305	4130.8	6702.2	W13037.7	Y43703.1	170	33.9	
0293	Oct-17	1500	4131.1	6600.6	W12807.7	Y43656.8	172	36.6	
0294	Oct-17	1558	4128.6	6656.5	W13025.5	Y43687.4	169	37.2	
0295	Oct-17	1730	4129.7	6657.5	W13024.1	Y43693.8	138	36.6	
0296	Oct-17	1824	4127.2	6655.9	W13029.7	Y43679.8	148	37.7	
0297	Oct-17	2011	4130.1	6654.4	W13010.0	Y43693.0	165	37.2	
0298	Oct-17	2113	4127.2	6651.8	W13013.8	Y43676.3	144	39.9	
0299	Oct-17	2304	4133.1	6653.7	W12993.0	Y43707.5	190	36.9	59.7
0300	Oct-18	0104	4137.0	6649.9	W12959.5	Y43723.9	188	36.6	
0301	Oct-18	0231	4132.3	6647.6	W12972.8	Y43698.8	191	39.6	
0302	Oct-18	0404	4136.0	6649.5	W12962.9	Y43718.6	178	38.5	
0303	Oct-18	0507	4133.8	6649.3	W12972.6	Y43707.3	171	38.5	58.5
0304	Oct-18	0646	4135.5	6652.0	W12974.8	Y43718.1	168	37.2	
0305	Oct-18	0741	4132.6	6651.7	W12987.8	Y43703.4	177	37.7	

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0306	Oct-18	0902	4131.1	6646.2	W12973.7	Y43691.3		40.2	
0307	Oct-18	0957	4129.0	6647.5	W12988.2	Y43682.0	163	40.5	
0308	Oct-18	1055	4126.6	6649.0	W13005.7	Y43670.9	174	41.6	
0309	Oct-18	1158	4125.1	6649.1	W13013.1	Y43663.5	181	41.8	
0310	Oct-18	1321	4125.2	6651.8	W13023.2	Y43665.9	174	40.2	
0311	Oct-18	1439	4124.0	6655.2	W13041.9	Y43662.9	170	37.7	
0312	Oct-18	1535	4121.4	6655.3	W13054.6	Y43649.5	194	38.3	
0313	Oct-18	1710	4121.5	6648.4	W13027.1	Y43644.7	170	40.7	
0314	Oct-18	1818	4122.2	6646.8	W13018.0	Y43647.0	355	41.0	
0315	Oct-18	1912	4123.2	6646.0	W13010.0	Y43651.5	125	41.8	
0316	Oct-18	2102	4129.3	6644.4	W12974.9	Y43681.0	154	41.6	
0317	Oct-18	2215	4125.5	6642.3	W12985.2	Y43660.4	155	45.7	
0318	Oct-18	2319	4125.7	6640.2	W12976.5	Y43659.4	356	45.7	
0319	Oct-19	0108	4127.9	6642.2	W12973.4	Y43672.0	179	43.7	
0320	Oct-19	0225	4129.1	6640.8	W12962.3	Y43677.1	348	42.4	
0321	Oct-19	0355	4128.8	6637.5	W12951.3	Y43672.9	204	44.6	
0322	Oct-19	0509	4126.6	6637.5	W12961.9	Y43662.0	172	46.8	
0323	Oct-19	0651	4128.7	6635.3	W12943.4	Y43671.0	159	46.8	
0324	Oct-19	0744	4126.7	6636.2	W12956.4	Y43661.8	228	47.3	
0325	Oct-19	0857	4124.1	6633.7	W12959.0	Y43646.9	086	50.0	
0326	Oct-19	1009	4123.0	6632.7	W12960.7	Y43640.2	218	50.6	
0327	Oct-19	1121	4122.1	6632.7	W12965.0	Y43635.9	102	51.1	
0328	Oct-19	1235	4121.9	6629.5	W12953.8	Y43632.6	103	50.9	
0329	Oct-19	1420	4122.7	6637.4	W12979.8	Y43642.4	202	46.5	
0330	Oct-19	1532	4120.3	6638.2	W12994.0	Y43630.9		46.8	
0331	Oct-19	1700	4115.5	6635.3	W13005.2	Y43604.6	102	48.1	
0332	Oct-19	1904	4115.1	6630.9	W12990.6	Y43599.2	275	49.5	
0333	Oct-19	2056	4113.9	6635.5	W13013.4	Y43596.5	319	47.3	
0334	Oct-19	2250	4111.7	6641.1	W13044.2	Y43589.4	279	42.1	
0335	Oct-20	0106	4117.6	6644.6	W13030.8	Y43621.8	326	41.8	54.0
0336	Oct-20	0308	4115.2	6642.5	W13033.7	Y43608.1	285	42.1	
0337	Oct-20	0453	4114.6	6642.1	W13034.8	Y43605.1	286	42.4	
0338	Oct-20	0605	4115.1	6646.4	W13049.3	Y43610.3	294	40.7	
0339	Oct-20	0731	4116.2	6648.1	W13050.7	Y43617.6		40.5	
0340	Oct-20	0839	4117.6	6651.3	W13056.4	Y43627.1	288	39.6	
0341	Oct-20	1011	4114.8	6649.4	W13062.0	Y43611.1	301	39.9	
0342	Oct-20	1117	4112.7	6649.2	W13071.1	Y43600.1	147	39.9	
0343	Oct-20	1243	4109.2	6646.9	W13077.9	Y43580.5	145	39.9	53.6
0344	Oct-20	1406	4108.5	6645.8	W13077.1	Y43576.0	342	39.4	
0345	Oct-20	1547	4107.1	6655.6	W13121.1	Y43575.7	303	39.4	54.3
0346	Oct-20	2154	4127.1	6801.7	W13310.7	Y43736.9	335	21.9	63.2
0347	Oct-21	0157	4121.7	6832.5	W13480.9	Y43737.3	274	42.4	56.6
0348	Oct-21	0410	4121.7	6846.4	W13549.1	Y43751.2		64.0	44.0
0349	Oct-21	0655	4124.8	6900.0	W13604.1	Y43783.9	175	83.1	42.5
0350	Oct-21	0931	4133.3	6910.7	W13620.6	Y43846.0	168	92.4	42.7
0351	Oct-21	1206	4141.9	6907.8	W13565.2	Y43892.1	229	99.0	42.4
0352	Oct-21	1447	4130.2	6919.9	W13683.4	Y43839.0	149	48.1	46.2

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2014 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0353	Oct-21	1705	4132.0	6922.3	W13687.9	Y43852.7	159	46.2	46.8
0354	Oct-21	1940	4100.3	6937.5	W13903.7	Y43674.0	179	16.1	
0355	Oct-21	2052	4126.9	6936.5	W13787.9	Y43839.1	082	16.4	
0356	Oct-22	0027	4132.9	6942.8	W13795.6	Y43883.7	323	15.6	54.2
0357	Oct-22	0155	4135.8	6943.7	W13788.1	Y43902.1	339	18.6	52.3
0358	Oct-22	0457	4143.2	6944.6	W13759.0	Y43947.6	295	44.3	
0359	Oct-22	0557	4143.6	6945.2	W13760.7	Y43950.5	131	44.8	46.4
0360	Oct-22	1524	4200.4	7015.4	X25434.4	Y44094.5	059	26.5	50.5
0361	Oct-22	1722	4152.8	7016.9	X25389.8	Y44052.0	079	17.8	51.2
0362	Oct-23	0211	4150.1	7022.9	X25409.5	Y44044.9	052	15.0	57.3
0363	Oct-23	0351	4149.6	7026.3	X25428.7	Y44046.9	083	14.2	58.1
0364	Oct-23	0523	4147.4	7025.2	X25406.9	Y44031.8	063	12.6	58.2
0365	Oct-23	0818	4157.6	7020.8	X25447.0	Y44086.4	208	24.1	49.7
0366	Oct-29	0115	4220.6	6941.0	W13553.8	Y44153.7	141	137.5	45.6
0367	Oct-29	0416	4230.1	6928.6	W13432.6	Y44184.5	232	147.6	45.7
0368	Oct-29	0718	4228.6	6919.3	W13388.2	Y44162.4	129	123.6	45.1
0369	Oct-29	1141	4200.5	6922.5	W13553.7	Y44016.5	219	115.6	44.7
0370	Oct-29	1551	4218.4	6853.0	W13302.3	Y44071.3	270	118.7	42.9
0371	Oct-29	1834	4224.6	6840.2	W13202.3	Y44085.8	226	109.9	46.4
0372	Oct-29	2158	4208.6	6843.5	W13305.4	Y44007.5	104	105.5	42.9
0373	Oct-30	0019	4202.5	6838.6	W13312.3	Y43969.2	313	93.2	42.4
0374	Oct-30	0218	4201.2	6835.8	W13305.3	Y43958.4	307	94.9	42.2
0375	Oct-30	0440	4159.4	6832.1	W13296.3	Y43944.3	300	95.4	44.2
0376	Oct-30	0857	4152.3	6755.5	W13159.2	Y43864.9	208	32.0	51.0
0377	Oct-30	1040	4153.9	6753.3	W13140.5	Y43871.1	225	31.7	53.0
0378	Oct-30	1315	4205.0	6754.9	W13090.6	Y43929.3	279	113.7	48.8
0379	Oct-30	1652	4225.1	6803.5	W13020.9	Y44039.9	044	99.5	48.2
0380	Oct-30	2120	4244.9	6837.1	W13071.3	Y44180.9	098	95.4	46.4
0381	Oct-31	0049	4255.5	6815.7	W12901.5	Y44200.2	093	94.3	45.3
0382	Oct-31	0524	4328.2	6830.3	W12766.2	Y44365.4	167	97.1	46.6
0383	Oct-31	0754	4332.2	6833.7	W12756.7	Y44387.4	019	74.1	48.8
0384	Oct-31	1008	4338.7	6829.5	W12692.0	Y44407.6	146	96.2	48.3
0385	Oct-31	1244	4339.6	6813.4	W12607.7	Y44386.6	237	106.1	47.4
0386	Oct-31	1747	4402.9	6745.4	W12319.9	Y44435.9	195	83.9	50.7
0387	Nov-01	0349	4420.8	6717.4	W12083.0	Y44461.1	104	80.1	52.4
0389	Nov-03	2317	4420.9	6708.1	W12049.4	Y44448.6	038	85.6	51.5
0390	Nov-04	0143	4421.3	6702.0	W12026.4	Y44441.6	048	75.5	51.5
0391	Nov-04	0527	4408.7	6648.3	W12069.1	Y44378.8	224	81.2	50.8
0392	Nov-04	0751	4400.7	6649.4	W12126.1	Y44351.1	329	66.4	51.1
0393	Nov-04	0953	4357.4	6647.5	W12141.8	Y44336.3	337	60.1	51.7
0394	Nov-04	1217	4346.9	6647.8	W12212.1	Y44297.1	003	70.0	52.4
0395	Nov-04	1444	4339.5	6639.3	W12231.3	Y44258.2		74.4	53.5
0396	Nov-04	1633	4335.6	6639.2	W12256.1	Y44242.6	150	64.2	53.4
0397	Nov-04	1837	4336.6	6652.7	W12295.2	Y44263.6	274	72.5	53.1
0398	Nov-04	2128	4318.7	6700.2	W12435.6	Y44201.0	164	108.8	49.8
0399	Nov-05	0020	4312.7	6715.7	W12532.4	Y44195.2	048	120.0	49.4
0400	Nov-05	0314	4324.5	6725.5	W12497.3	Y44257.4	153	102.8	48.3

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2014 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0401	Nov-05	0539	4323.6	6731.2	W12526.4	Y44261.2	185	116.2	
0402	Nov-05	0824	4310.5	6720.9	W12567.0	Y44192.7	147	100.6	49.6
0403	Nov-05	1043	4302.7	6710.8	W12574.1	Y44146.6		124.4	49.7
0404	Nov-05	1326	4250.3	6705.2	W12626.4	Y44085.7	207	110.7	49.7
0405	Nov-05	1514	4250.5	6708.0	W12636.3	Y44089.8	267	124.7	49.5
0406	Nov-05	1821	4237.7	6649.8	W12640.6	Y44011.8		121.9	50.6
0407	Nov-05	2023	4233.8	6643.7	W12639.2	Y43987.8	272	130.4	45.8
0408	Nov-05	2300	4232.1	6656.8	W12697.9	Y43994.4	064	167.6	47.8
0409	Nov-06	0105	4227.8	6657.3	W12724.0	Y43975.2		179.4	46.1
0410	Nov-06	0406	4212.9	6706.1	W12839.7	Y43914.7	277	108.5	48.8
0412	Nov-06	0730	4202.9	6711.1	W12913.0	Y43871.5	098	28.7	52.9
0413	Nov-06	1128	4206.7	6744.1	W13033.0	Y43925.8	066	104.2	43.1
0414	Nov-06	1321	4215.5	6742.5	W12978.6	Y43967.3	357	124.9	48.7
0415	Nov-06	1553	4228.3	6742.5	W12908.0	Y44029.2		103.3	49.2
0416	Nov-06	1753	4233.3	6754.3	W12932.2	Y44067.8	321	122.8	49.1
0417	Nov-06	2052	4248.1	6757.2	W12859.2	Y44141.1	097	115.4	48.5
0418	Nov-07	0245	4248.6	6904.7	W13194.2	Y44239.9	186	94.9	44.6
0419	Nov-07	0458	4246.4	6920.7	W13295.3	Y44254.5	205	47.0	48.2
0420	Nov-07	0725	4252.5	6925.5	W13287.5	Y44291.7	318	83.7	45.3
0421	Nov-07	1121	4310.0	6858.2	W13029.2	Y44329.6	250	93.0	46.6
0422	Nov-07	1412	4323.1	6854.9	W12927.5	Y44382.3	277	69.4	52.2
0423	Nov-07	2301	4355.4	6846.5	W12664.7	Y44500.6	281	49.8	53.5
0425	Nov-08	0928	4339.5	6901.6	W12856.2	Y44462.0	222	58.2	54.1
0426	Nov-08	1405	4333.5	6937.1	W13099.2	Y44497.6	014	78.2	51.9
0427	Nov-08	1703	4321.9	6928.8	W13126.1	Y44432.9	350	91.9	48.1
0428	Nov-08	2028	4308.3	6954.7	W13364.6	Y44416.9	172	96.2	43.9
0429	Nov-08	2235	4303.4	6946.5	W13344.5	Y44379.2		88.9	43.8
0430	Nov-09	0042	4256.9	6943.5	W13366.0	Y44343.1	196	100.9	45.2
0431	Nov-09	0341	4240.4	6957.3	W13542.1	Y44284.8	346	99.8	43.7
0432	Nov-09	0518	4244.2	6959.1	W13531.9	Y44307.3	332	99.5	44.4
0433	Nov-09	0659	4249.2	7005.7	X25712.3	Y44343.8	309	72.2	46.8
0434	Nov-09	0907	4256.9	7008.6	X25774.3	Y44387.2	259	73.8	51.7
0435	Nov-09	1100	4247.8	7013.7	X25743.2	Y44351.1	193	34.7	53.5
0436	Nov-09	1217	4246.7	7012.2	X25729.1	Y44343.1	239	62.6	53.5
0437	Nov-09	1448	4243.0	7026.2	X25780.6	Y44349.6	294	45.1	52.4
0438	Nov-09	1620	4246.4	7027.3	X25807.5	Y44368.9	173	53.6	52.3
0439	Nov-09	1820	4249.2	7024.9	X25811.6	Y44379.0	288	67.0	51.4
0440	Nov-09	2013	4255.6	7029.8	X25877.4	Y44420.1	185	56.9	53.2
0441	Nov-09	2217	4251.9	7031.9	X25867.0	Y44405.6	022	51.4	53.1
0442	Nov-10	0041	4246.8	7043.9	X25907.6	Y44402.4	340	18.6	52.2
0443	Nov-10	0300	4242.9	7029.8	X25799.7	Y44355.2	310	47.0	52.6
0445	Nov-10	0949	4233.4	7038.2	X25791.3	Y44320.6	244	26.8	
0446	Nov-10	1119	4232.3	7027.4	X25719.7	Y44295.1	170	51.9	53.1
0447	Nov-10	1459	4230.7	7040.0	X25786.0	Y44309.4	183	34.4	52.6
0448	Nov-10	1709	4226.8	7047.9	X25812.8	Y44302.2	215	24.1	51.9
0449	Nov-10	2140	4223.6	7047.3	X25789.0	Y44283.0	314	17.8	51.7
0451	Nov-11	0154	4219.1	7041.2	X25721.0	Y44246.8	318	25.4	

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2014 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0452	Nov-11	0635	4215.0	7022.1	X25574.6	Y44190.0	095	41.3	51.9
0453	Nov-11	1112	4205.4	7027.0	X25540.0	Y44142.9	020	30.6	52.1
0454	Nov-11	1400	4158.3	7027.5	X25495.3	Y44101.7	073	23.5	52.8
0455	Nov-11	1846	4207.3	7004.4	X25425.3	Y44117.3	139	26.8	51.9
0456	Nov-11	2033	4209.4	6957.5	W13707.4	Y44117.8	136	75.5	47.2
0457	Nov-11	2225	4203.2	6954.4	W13719.9	Y44078.5	322	45.1	49.3
0458	Nov-12	0016	4159.7	6954.1	W13735.3	Y44057.7	327	33.9	
0459	Nov-12	0305	4152.8	6954.5	W13770.4	Y44018.1		17.5	
0460	Nov-12	0803	4148.2	6954.1	W13789.8	Y43990.6	005	13.1	51.6
0461	Nov-12	0924	4146.9	6953.3	W13791.6	Y43981.6	343	13.7	52.1
0462	Nov-12	1920	4243.4	7038.7	X25855.8	Y44374.9	327	21.1	52.4
0463	Nov-12	2104	4244.0	7039.4	X25863.6	Y44379.4	321	21.1	52.4

*Missing sequential numbers indicate either a test-tow or no trawl was attempted.

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY 2014
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	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	3	11	45
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	33	23	123
19	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	36	49
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	3	11	53
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	30	17	70
24	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	44	77
25	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	69	31	103
27	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	3	199	223
28	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	126	142
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	461	472
30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	566	584
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	608	625
32	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17	0	305	325
33	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	34	0	112	147
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	60	70
35	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	63	69
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	2	23	65
37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	19	0	13	33
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	413	423
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	209	218
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	382	0	216	7	55	660
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	108	2	64	178
42	0	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	102	66	180
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	29	1	218	249
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	20	0	52	128
45	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6	1	91	103
46	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	77	37	123
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	477	491
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	88	115
49	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	8	4	170	198
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	0	34	10	64	177
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	0	29	120
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	272	274
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	8	14
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	0	8	11	5	0	1	0	36	165
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	6	0	5	14
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	0	676	684

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY 2014
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	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	10	14
58	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
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	7	16
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
61	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	71	23	97
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	222	252
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	11	0	13	26
64[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	5	0	12	31
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	2	0	56	77
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	40	41
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	5
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	1	0	5	44
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	2	0	41	52
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2	0	7	0	82	95
72	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	15	0	3	2	2	0	5	0	1954	1982
73	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	76	0	15	202	10	0	2	0	49	357
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	2	3	2	0	12	0	23	68
75	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	1	27	1	37	288	5	0	7	0	360	738
76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	17	37	8	0	3	0	23	103
77	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	47	0	1	0	1	0	5	0	6	62
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	1	0	3	0	8	40
79	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	1	0	0	0	0	0	12	0	16	35
80	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	1	1	0	0	0	0	5	0	200	211
81	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	7	0	0	0	0	0	19	0	32	61
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8	1	0	0	0	0	17	0	11	38
83	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	16	0	0	19	0	33	71
84	0	0	0	0	0	0	0	0	0	0	0	0	1	5	1	0	73	2	3	18	0	0	12	0	46	161
85	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	20	1	3	4	0	0	20	0	45	96
86	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	0	1	4	0	0	11	0	57	80
87	0	0	0	0	0	0	0	0	0	0	0	0	3	21	1	0	32	0	5	22	0	0	24	0	161	269
88	0	0	0	0	0	0	0	0	0	0	0	0	12	52	1	18	7	0	40	355	2	0	8	0	249	744
89	0	0	0	0	0	0	0	0	0	0	0	0	1	8	3	0	4	0	9	61	0	0	11	0	295	392
90	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	1	0	0	0	14	0	59	78
91	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	2	4	0	0	0	0	18	0	117	147
92	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	25	1	0	15	65	9	0	12	0	347	485
93	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	1	0	0	0	15	0	84	105
94	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	36	0	21	58

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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 FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
95	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	1	0	9	0	41	57
96	0	0	0	0	0	0	0	0	0	0	0	0	3	32	0	0	0	1	7	150	0	0	1	0	641	835
97	0	0	0	0	0	0	0	0	0	0	0	0	7	11	0	0	0	5	9	419	5	2	0	0	430	888
98	0	0	0	0	0	0	0	1	0	0	0	0	8	49	3	19	16	48	105	659	3	1	3	0	327	1242
99	0	0	0	0	0	0	0	0	0	0	0	0	3	16	0	1	1	1	4	4	0	0	12	0	94	136
100	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	7	1	0	1	0	0	2	0	64	81
101	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	0	1	0	0	4	0	150	161
102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	5	0	1092	1100
103	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	5	0	1	0	74	0	0	1	0	168	259
104	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	65	0	0	0	331	0	0	1	0	238	645
105	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	5	0	1	0	35	0	0	7	0	57	111
106	0	0	0	0	0	0	0	0	0	0	0	0	1	5	2	0	0	0	0	24	0	0	9	0	101	142
107	0	0	0	0	0	0	0	0	0	0	0	0	3	17	2	6	1	5	1	587	0	0	2	0	216	840
108	0	0	0	0	0	0	0	0	0	0	0	0	7	15	3	12	0	9	3	940	0	1	1	0	333	1324
111[2]	2	0	0	0	0	0	0	0	2	39	0	0	0	0	0	0	57	7	0	0	1	1	8	0	62	179
112	0	0	0	0	1	0	0	14	1	5	0	0	11	54	0	0	267	15	0	0	3	1	14	0	533	919
113	0	0	0	0	100	0	10	180	3	17	0	0	3	39	0	0	2	5	0	0	1	1	10	0	313	684
114	0	0	0	0	62	0	6	0	4	0	0	0	0	8	0	0	0	0	0	0	224	0	53	0	233	590
115	0	0	0	0	116	0	23	14	14	0	0	8	0	11	0	0	0	0	0	0	126	0	67	0	883	1262
116	0	1	0	0	7	0	5	298	0	0	0	0	0	0	0	0	0	0	0	0	177	0	220	0	143	851
117	0	3	0	0	2	0	7	8	0	0	0	0	0	0	0	0	0	0	0	0	183	2	75	0	43	323
118	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	60	0	178	0	160	402
119	0	0	0	0	7	0	24	0	0	0	0	0	0	22	0	0	0	0	0	0	4	0	60	0	136	253
120	0	0	0	0	0	0	0	0	0	0	0	0	2	25	0	0	62	6	0	0	1	0	64	0	111	271
121	0	0	0	0	0	0	0	0	0	0	0	0	2	38	1	1	4	4	0	0	7	0	20	0	144	221
122	0	0	0	0	1	0	0	0	0	0	0	0	5	36	2	4	3	1	0	0	1	0	27	0	262	342
123	0	0	0	0	0	0	0	0	0	0	0	0	15	67	0	0	0	19	0	0	7	0	20	0	362	490
124	0	0	0	0	3	0	0	0	0	3	0	0	7	38	0	0	0	6	0	0	0	0	62	0	419	538
125	0	0	0	0	0	0	0	0	0	0	0	0	1	23	8	7	1	0	0	0	18	0	6	0	239	303
126	0	0	0	0	0	0	0	0	0	1	0	0	1	41	30	0	3	11	0	0	49	0	51	0	137	324
127	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	69	10	0	0	18	0	67	0	46	217
128	0	0	0	0	0	0	0	0	0	2	0	0	2	36	0	0	1	15	0	0	1	0	50	0	218	325
129	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	11	0	0	0	0	13	0	93	121
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	2	0	2	0	1	3	1	2	0	165	188
131	0	0	0	0	0	0	0	0	0	0	0	0	2	7	0	7	2	1	0	0	1	0	6	0	138	164
133[2]	0	0	0	0	8	0	0	0	0	31	0	0	6	9	0	0	0	1	0	1	2	42	0	0	158	258
134	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	3	0	0	0	3	0	2	0	131	145
135	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	6	2	0	0	1	0	1	0	247	267

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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 FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
136	0	0	0	0	1	0	0	0	0	0	0	0	3	7	1	1	4	6	0	1	14	1	8	0	313	360
137	0	0	0	0	0	0	0	0	0	0	0	0	0	19	21	0	0	0	0	0	2	0	104	0	100	246
138	0	0	0	0	0	0	0	0	0	9	0	0	0	6	0	0	0	0	0	0	0	7	65	0	428	515
139	0	0	0	0	0	0	0	0	0	13	0	0	1	9	0	0	0	0	0	0	0	2	78	0	175	278
140	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0	0	22	0	0	0	0	0	8	0	78	120
141	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	0	3	0	0	0	0	0	19	0	104	133
142	0	0	0	0	0	0	0	1	0	0	0	0	1	3	2	9	9	2	0	25	3	10	1	0	255	321
143	0	0	0	0	0	0	0	0	0	0	0	0	3	2	13	2	2	1	0	14	0	0	6	0	176	219
144	0	0	0	0	0	0	0	0	0	0	0	0	2	9	2	0	5	2	0	124	0	0	6	0	275	425
145	0	0	0	0	0	0	0	0	0	0	0	0	4	23	0	0	1	3	0	35	0	0	3	0	147	216
146	0	0	0	0	0	0	0	0	0	0	0	0	9	42	3	0	0	2	0	65	0	2	4	0	408	535
147	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	0	0	0	7	0	76	92
148	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	19	0	213	234
149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	121	256
150[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	51	76
151	0	0	0	0	0	0	0	0	0	0	0	0	3	0	5	0	0	0	0	0	0	0	47	0	143	198
152	0	0	0	0	9	0	1	0	0	0	0	0	2	0	2	0	0	0	0	0	20	0	45	0	1337	1416
153	0	0	0	0	7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	22	0	469	505
154	0	0	0	0	22	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	10	123	175
155	0	0	0	0	7	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	52	63	44	179
156	0	0	0	0	1	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2	69	121
157	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	31	10	153
158	0	0	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	33	2	74	132
159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	4	157	209
160	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	1	63	129
161	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	2	24	51	98
162	0	0	0	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	50	4	57	121
163	0	0	0	0	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	5	64	90
164	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	107	2	17	128
165	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	1	14	144
166	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0	284	364
167	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	0	128	210
168	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	0	1051	1129
169	0	0	0	0	46	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	121	0	889	1074
170	0	0	0	0	0	0	0	0	0	0	0	0	4	14	0	0	0	0	0	0	2	0	111	1	1040	1172
171	0	0	0	0	68	0	11	8	0	0	0	0	0	8	0	0	0	0	0	0	72	0	40	0	521	728
172	0	0	0	0	57	0	20	0	1	0	0	0	2	6	0	0	0	0	0	0	44	0	22	0	478	630
173	0	0	0	0	15	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	9	0	163	240

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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 FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
174	0	0	0	0	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	44	0	74	138
175	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	84	0	81	197
176	0	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	72	2	57	147
177	0	0	0	0	5	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	67	5	117	237
178	0	0	0	0	0	0	184	19	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	1	249	460
179	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	2	27	70
181	0	0	0	0	1	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	16	25	49	114
182	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	21	1	32	1	50	111
183	0	0	0	0	35	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	42	2	95	199
184	0	0	0	0	37	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1	41	0	40	147
185	0	0	0	0	0	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0	9	3	95	10	25	151
186	0	6	0	0	20	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	56	2	98	1	33	221
187	0	1	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	3	57	0	46	235
188	0	0	0	0	25	0	9	0	0	0	0	0	0	14	16	0	0	0	0	0	68	8	59	0	230	429
189	0	0	0	0	0	0	0	0	0	13	0	0	2	19	0	0	149	23	0	0	2	1	47	0	233	489
190	0	0	0	0	0	0	0	0	0	3	0	0	1	3	0	0	71	7	0	0	0	0	56	0	120	261
191	0	0	0	0	0	0	0	0	0	4	0	0	2	26	0	0	168	28	0	0	0	0	104	0	165	497
192[2]	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	12	3	0	0	0	0	3	0	35	59
193	0	0	0	0	0	0	0	0	0	16	0	0	2	0	6	0	88	8	0	0	0	0	65	0	123	308
194	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	33	0	17	55
195[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	6	0	16	26
196	0	0	0	0	0	0	0	0	0	1	0	0	1	5	0	0	49	42	0	0	4	0	46	0	46	194
197	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	19	3	0	0	6	0	63	0	24	210
198[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	17	2	0	0	0	0	1	0	7	28
199[2]	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	24	2	0	0	0	6	6	0	28	67
200[2]	0	0	0	0	0	0	0	0	0	9	0	0	5	14	0	0	427	8	0	0	4	9	20	0	148	644
202	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	0	157	1	0	0	1	1	53	0	124	350
203	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	7	0	0	0	5	0	60	0	39	114
204	0	0	0	0	0	0	0	443	0	0	0	0	3	3	0	0	6	4	0	0	6	0	38	0	164	667
205	0	0	0	0	26	0	0	682	0	4	0	0	8	69	4	0	90	6	0	0	38	0	2	0	626	1555
206	0	0	0	0	3	0	0	410	0	2	0	0	4	17	0	0	34	0	0	0	4	0	56	0	284	814
207	0	0	0	0	5	0	0	0	0	0	0	0	0	5	0	0	31	0	0	0	9	0	53	0	50	153
208	0	0	0	0	0	0	0	0	0	0	0	0	1	19	0	0	12	5	0	0	0	0	39	0	92	168
209[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	19	0	4	26
210	0	0	0	0	0	0	0	0	0	0	0	0	0	11	6	0	0	0	0	0	0	0	231	0	17	265
211	0	1	0	0	37	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	22	0	2498	2565
212	0	2	0	0	47	0	4	7	0	0	0	0	0	8	0	0	0	0	0	0	2	4	2	0	49	125

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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 FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
213	0	0	0	0	133	0	0	81	0	0	0	0	0	0	0	0	0	0	0	0	1	7	1	0	63	286
214	0	0	0	0	176	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0	115	297
215	0	4	0	0	54	0	1	0	0	0	0	0	0	8	0	0	0	0	0	0	1	4	2	0	62	136
216	0	1	0	0	73	0	9	7	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	81	176
217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	52	0	7	61
218	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	12	18	84
219	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	48	3	57	134
220	0	0	0	0	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	85	3	55	252
221	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	2	5	20	122
222	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	37	9	11	62
223	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	1	9	14	49
224	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	197	56	0	29	38	323
225	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	4	3	22	46
226	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	27	37
227	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	5	9	53
228	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	32	37
229	0	0	0	0	171	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	1	87	266
230	0	1	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	30	53
231	0	53	0	0	7	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	3	0	5	0	38	110
232	0	0	0	0	11	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	5	6	35	67
233	0	0	0	0	17	0	4	274	0	0	0	0	0	0	0	0	0	0	0	0	61	0	22	3	35	416
234	0	0	0	0	4	0	6	145	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	148	348
235	0	518	0	0	31	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	75	654
236	0	1	0	0	0	0	0	140	0	0	0	0	0	19	0	0	0	0	0	0	0	0	51	5	20	236
237	0	0	0	0	0	0	0	171	0	2	0	0	0	0	0	0	0	0	0	0	0	2	22	0	38	235
238	0	0	0	0	0	0	0	50	0	0	0	0	2	40	0	0	0	0	0	0	0	0	11	1	183	287
239	0	3	0	0	5	0	0	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0	94	6	68	182
240	0	202	0	0	5	0	0	10	2	0	0	0	1	20	0	0	0	0	0	0	0	8	26	3	194	471
241[2]	1	0	0	0	0	0	0	8	4	0	0	0	0	0	0	0	0	0	0	0	0	4	7	0	230	254
242	0	184	0	0	1	0	0	48	0	0	0	0	2	0	0	0	0	0	0	0	1	2	44	6	107	395
243[2]	0	302	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	5	27	0	45	403
244	0	852	0	1	0	0	0	111	0	0	0	0	0	28	0	0	0	0	0	0	0	5	52	2	151	1202
245[2]	0	2	0	0	3	0	0	1138	0	0	0	0	2	0	0	0	0	0	0	0	12	1	32	0	121	1311
246	2	9	0	0	1	0	0	930	1	1	0	0	1	4	0	0	0	0	0	0	30	11	80	1	172	1243
247	0	89	0	0	1	0	0	643	0	0	0	0	0	2	0	0	0	0	0	0	26	3	89	0	248	1101
248	0	0	0	0	0	0	0	288	0	0	0	0	7	0	9	0	0	0	0	0	24	0	43	2	265	638
249	0	1	0	0	1	0	9	294	0	0	0	0	30	7	0	0	0	0	0	0	2	0	6	0	210	560
250	0	202	0	0	23	0	14	44	2	0	0	0	0	0	0	0	0	0	0	0	1	3	0	1	330	620

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY 2014
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	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
252	0	9	0	0	69	0	13	29	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	212	333
253	0	1611	0	0	9	0	0	39	2	3	1	0	0	0	0	0	0	0	0	0	1	16	12	1	126	1821
254	0	1140	0	0	7	0	11	61	0	4	0	0	0	0	0	0	0	0	0	0	0	6	20	2	136	1387
255	0	563	0	0	3	0	19	27	4	0	0	0	0	0	0	0	0	0	0	0	0	38	2	1	550	1207
256	0	388	0	0	2	0	15	65	12	6	0	0	0	0	0	0	0	0	0	0	0	41	15	2	540	1086
257	0	487	0	0	2	0	0	138	16	0	0	0	0	0	0	0	0	0	0	0	0	12	10	1	217	883
258	0	1149	0	4	82	0	0	8763	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	733	10737
259	0	48	0	0	56	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	5	66	272
260	0	73	0	0	71	0	3	99	0	0	0	0	0	0	0	0	0	0	0	0	3	6	0	3	113	371
261	0	65	0	0	83	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	5	68	250
262	0	381	0	0	109	0	0	92	2	0	0	0	0	0	0	0	0	0	0	0	1	3	0	5	145	738
263	0	0	0	3	87	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	29	0	2	366	490
264	0	3097	0	0	57	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	3	114	3324
265[2]	0	357	0	0	8	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0	1	84	0	3	30	561
266	0	610	0	0	10	0	0	97	0	0	0	0	0	0	0	0	0	0	0	0	1	169	0	2	103	992
267	0	526	0	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0	2	75	670
268	0	404	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	1	83	507
269	0	744	0	8	70	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	44	886
270	0	294	0	0	6	0	14	12	8	4	0	0	0	0	0	0	0	0	0	0	0	32	0	6	266	642
271	0	190	0	0	24	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	23	0	1	218	463
272	49	153	2	8	9	0	12	2	2	0	0	0	0	0	0	0	0	0	0	0	0	9	0	1	182	429
273	0	17	0	0	4	0	11	3	1	0	1	0	0	0	0	0	0	0	0	0	0	41	0	3	166	247
274	0	27	0	0	3	0	0	11	16	0	0	0	0	0	0	0	0	0	0	0	0	25	0	1	166	249
275	0	55	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	16	80
276	3	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	242
277	7	2241	13	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	2	26	2319
278	19	588	0	6	11	2	0	91	0	0	0	2	0	0	0	0	0	0	0	0	0	6	0	7	147	879
279	49	724	0	12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	2	94	888
280	155	475	22	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8	261	924
281	14	1271	0	0	3	0	0	3	20	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	349	1676
282	0	454	0	0	4	0	0	196	22	7	0	0	2	0	0	0	0	0	0	0	1	34	3	5	189	917
283	0	0	0	0	7	0	0	163	0	12	0	0	19	0	0	0	0	0	0	0	5	7	11	0	634	858
284	0	0	0	0	19	0	0	754	0	26	0	0	41	0	0	0	0	0	0	0	0	0	64	0	179	1083
285	0	0	0	0	0	0	0	223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	1	202	453
286	0	0	0	0	0	0	0	187	0	0	0	0	3	0	11	0	0	0	0	0	1	0	12	0	74	288
287[2]	0	0	0	0	0	0	0	6	0	0	0	0	0	7	9	0	0	0	0	0	2	0	8	0	102	134
288	0	0	0	0	2	0	0	0	0	0	0	0	3	16	0	0	0	0	0	0	1	0	32	0	214	268
289	0	0	0	0	1	0	0	38	0	0	0	0	7	0	0	0	0	0	0	0	4	0	19	0	296	365

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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 FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
290[2]	0	0	0	0	8	0	0	217	0	2	0	0	83	0	0	0	0	0	0	0	0	7	42	0	1121	1480
291	0	0	0	0	1	0	0	1353	0	0	0	0	19	0	0	0	0	0	0	0	0	0	180	2	819	2374
292	0	821	0	0	5	0	0	237	19	3	0	0	0	0	0	0	0	0	0	0	1	3	16	0	16	1121
293[3]	0	693	0	0	12	0	0	99	39	5	0	0	0	0	0	0	0	0	0	0	9	0	14	2	25	898
294[3]	0	387	0	0	6	0	0	228	0	0	0	0	0	0	0	0	0	0	0	0	0	5	21	5	21	673
295[3]	0	185	0	0	11	0	0	240	43	4	0	0	2	0	0	0	0	0	0	0	4	0	41	2	134	666
296[3]	0	140	0	0	10	0	0	136	5	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	123	420
297[3]	0	78	0	0	3	0	0	185	4	2	0	0	3	0	0	0	0	0	0	0	6	11	2	2	111	407
298[3]	0	151	0	0	4	0	0	121	55	3	0	0	0	0	0	0	0	0	0	0	6	24	0	2	163	529
299	0	105	0	0	29	0	0	53	0	2	0	0	9	3	0	0	0	0	0	0	0	8	2	0	125	336
300[3]	0	166	0	0	21	0	0	74	27	0	0	0	26	6	0	0	0	0	0	0	1	34	10	1	140	506
301[3]	0	72	0	0	11	0	0	52	6	0	0	0	3	0	0	0	0	0	0	0	1	14	11	1	106	277
302[3]	0	110	0	0	21	0	0	100	2	0	0	0	28	0	0	0	0	0	0	0	4	16	23	3	111	418
303	0	68	0	0	27	0	0	70	5	2	0	0	4	0	0	0	0	0	0	0	1	21	17	0	98	313
304[3]	0	247	0	0	4	0	0	143	1	0	0	0	2	0	0	0	0	0	0	0	0	13	15	0	59	484
305[3]	0	281	0	0	25	0	0	128	1	3	0	0	1	0	0	0	0	0	0	0	1	13	38	1	28	520
306[3]	0	268	0	0	4	0	18	100	7	31	0	0	0	0	0	0	0	0	0	0	7	3	3	0	51	492
307[3]	0	335	0	0	4	0	0	60	62	2	0	0	0	0	0	0	0	0	0	0	10	32	5	0	50	560
308[3]	0	588	0	0	7	0	0	29	14	3	0	0	0	0	0	0	0	0	0	0	4	15	4	2	67	733
309[3]	0	983	0	0	13	0	7	35	12	28	0	0	0	0	0	0	0	0	0	0	3	39	4	5	62	1191
310[3]	0	477	0	0	11	0	0	19	19	4	0	0	0	0	0	0	0	0	0	0	2	2	9	4	123	670
311[3]	0	868	0	0	6	0	0	46	31	0	0	0	0	0	0	0	0	0	0	0	0	2	23	5	94	1075
312[3]	0	1133	0	0	17	0	0	42	45	5	0	0	0	0	0	0	0	0	0	0	15	3	12	3	48	1323
313[3]	0	284	0	0	10	0	5	153	39	6	0	0	0	0	0	0	0	0	0	0	1	0	9	2	96	605
314[3]	9	268	0	0	5	0	0	84	49	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	192	612
315[3]	0	520	0	2	9	0	4	58	46	0	0	0	0	0	0	0	0	0	0	0	1	19	0	2	243	904
316[3]	0	150	0	0	17	0	0	30	92	0	0	0	0	0	0	0	0	0	0	0	2	24	0	3	271	589
317[3]	0	874	0	0	49	0	43	19	13	70	0	0	0	0	0	0	0	0	0	0	1	3	1	7	329	1409
318[3]	0	366	0	0	11	0	17	20	35	7	0	0	0	0	0	0	0	0	0	0	1	8	0	2	251	718
319[3]	0	218	0	0	22	0	7	23	47	3	0	0	0	0	0	0	0	0	0	0	1	4	0	1	313	639
320[3]	0	156	0	0	12	0	0	35	118	0	0	0	0	0	0	0	0	0	0	0	1	25	1	0	323	671
321[3]	0	134	0	0	8	0	6	100	17	3	0	0	0	0	0	0	0	0	0	0	1	7	1	1	252	530
322[3]	0	390	0	0	11	0	0	64	25	0	0	0	0	0	0	0	0	0	0	0	1	8	1	1	164	665
323[3]	0	529	0	0	4	0	0	85	10	21	0	0	0	0	0	0	0	0	0	0	1	39	16	4	92	801

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CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

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324[3]	0	493	0	2	4	0	6	137	12	3	0	0	0	0	0	0	0	0	0	0	3	12	2	12	71	757
325[3]	0	1577	0	30	8	0	7	15	4	118	0	0	0	0	0	0	0	0	0	0	1	6	1	2	83	1852
326[3]	0	2493	0	19	10	0	11	3	2	54	0	0	0	0	0	0	0	0	0	0	0	50	0	0	122	2764
327[3]	0	1126	0	0	3	0	0	9	0	16	0	0	0	0	0	0	0	0	0	0	0	14	8	2	80	1258
328[3]	0	1496	0	0	9	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	8	4	4	87	1624
329[3]	0	926	0	0	3	0	27	17	8	0	0	0	0	0	0	0	0	0	0	0	1	10	1	0	84	1077
330[3]	0	1290	0	0	12	0	13	29	10	6	0	0	0	0	0	0	0	0	0	0	0	53	18	6	134	1571
331[3]	0	604	0	0	5	0	12	6	40	0	0	0	0	0	0	0	0	0	0	0	0	36	1	0	353	1057
332[3]	0	481	0	0	20	0	15	3	27	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	572	1132
333[3]	0	206	0	0	4	0	0	5	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	552	824
334[3]	0	351	0	0	5	0	0	73	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	303	807
335	0	363	0	0	9	0	17	41	91	4	0	0	0	0	0	0	0	0	0	0	0	8	0	1	235	769
336[3]	0	517	0	0	13	0	10	115	146	0	0	0	0	0	0	0	0	0	0	0	0	28	0	1	417	1247
337[3]	0	628	0	0	6	0	7	54	101	0	1	0	0	0	0	0	0	0	0	0	0	12	1	6	338	1154
338[3]	0	738	0	0	2	0	0	47	40	0	0	0	0	0	0	0	0	0	0	0	2	7	1	1	82	920
339[3]	0	721	0	0	2	0	4	129	19	3	0	0	0	0	0	0	0	0	0	0	0	14	1	3	34	930
340[3]	0	447	0	0	1	0	7	510	12	3	0	0	0	0	0	0	0	0	0	0	0	0	11	2	32	1025
341[3]	0	778	0	0	3	0	17	132	22	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2	68	1033
342[3]	0	684	0	0	1	0	0	774	27	7	0	0	0	0	0	0	0	0	0	0	0	3	13	9	68	1586
343	0	491	0	0	0	0	0	332	34	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	82	944
344[3]	0	419	0	0	2	0	0	63	45	0	0	0	0	0	0	0	0	0	0	0	0	12	4	1	102	648
345	0	474	0	0	3	0	17	96	27	7	0	0	0	0	0	0	0	0	0	0	4	8	19	8	62	725
346	0	0	0	0	2	0	0	150	0	0	0	0	24	0	0	0	0	3	0	0	3	0	25	0	681	888
347	0	1	0	0	248	0	28	122	0	13	0	0	0	0	0	0	0	0	0	0	3	72	1	0	1514	2002
348	18	151	0	12	6	1	34	2	1	60	2	0	0	0	0	0	0	0	0	0	0	12	0	1	202	502
349	8	1572	2	0	3	286	0	37	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	1	71	1986
350	22	880	0	1	22	165	8	9	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	124	1236
351	0	77	0	19	27	24	22	6	0	0	13	4	0	0	0	0	0	0	0	0	0	0	0	0	141	333
352	0	1093	1	8	65	0	2	209	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	656	2036
353	1	400	0	2	85	0	3	166	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	289	953
354[2]	0	0	0	0	1	0	0	13	1	36	0	0	0	0	0	0	0	0	0	0	0	15	4	0	106	176
355[2]	0	0	0	0	0	0	0	91	3	25	0	0	1	0	0	0	0	0	0	0	0	0	7	0	172	299
356	0	0	0	0	297	0	0	333	22	16	0	0	8	0	6	0	0	0	0	0	0	2	2	1	1285	1972
357	1	3	0	0	652	0	0	4556	17	54	0	0	0	0	6	0	0	0	0	0	0	29	1	1	5597	10917
358[2]	0	172	0	5	83	0	1	120	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	2	525	916

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY 2014
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	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
359	0	318	0	20	173	0	7	193	1	6	0	0	0	0	0	0	0	0	0	0	1	19	0	1	416	1155
360	0	0	0	4	141	0	0	3	0	36	0	0	3	5	0	0	0	3	0	0	213	59	75	2	837	1381
361	0	0	0	10	157	0	2	0	2	27	0	0	3	0	0	0	0	1	0	0	1	25	1	0	121	350
362	0	0	0	0	160	0	1	0	1	37	0	0	6	0	0	0	2	1	0	0	7	9	2	0	327	553
363	0	0	0	0	49	0	0	0	1	40	0	0	6	0	0	0	10	1	0	0	10	40	1	0	207	365
364	0	0	0	0	71	0	0	0	0	67	0	0	23	0	0	0	2	3	0	0	6	33	0	0	691	896
365	0	0	0	0	135	0	4	0	8	32	0	0	6	0	0	0	0	0	0	0	1	121	3	0	216	526
366	0	9	0	15	309	8	10	10	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	1	77	446
367	0	23	0	14	459	5	1	24	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	3	320	859
368	0	28	0	1	215	15	7	5	0	0	17	0	0	0	0	0	0	0	0	0	0	3	0	6	67	364
369	0	124	0	8	86	14	7	6	0	0	51	0	0	0	0	0	0	0	0	0	0	2	0	2	113	413
370	0	1	0	6	143	25	18	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	12	36	247
371	0	2	0	19	410	15	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	94	543
372	0	2	0	16	216	29	5	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	6	160	440
373	32	58	0	23	132	138	27	0	0	0	9	12	0	0	0	0	0	0	0	0	0	0	0	4	408	843
374	14	481	0	32	467	88	10	0	0	0	9	5	0	0	0	0	0	0	0	0	0	0	0	1	675	1782
375	0	646	0	17	595	35	35	2	0	0	77	1	0	0	0	0	0	0	0	0	0	2	0	2	955	2367
376	0	729	0	0	47	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	90	15	7	85	978
377	0	1425	0	1	33	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	56	9	2	439	1970
378	0	160	1	9	227	219	48	0	0	0	1	1	0	0	0	0	0	0	0	0	0	20	0	6	117	809
379	0	17	2	50	128	259	13	4	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	3	57	540
380	8	75	0	38	149	203	2	29	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	11	87	608
381	35	127	541	63	33	391	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	50	1245
382	0	0	1	10	113	117	19	28	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	1	130	431
383	4	2	0	22	301	1	16	57	0	0	2	8	0	0	0	0	0	0	0	0	5	9	0	7	586	1020
384	0	2	0	35	319	1024	44	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	8	162	1606
385	0	7	0	31	195	521	28	29	0	0	25	3	0	0	0	0	0	0	0	0	0	0	0	5	115	959
386	5	48	0	19	384	1	27	9	0	0	15	16	0	0	0	0	0	0	0	0	0	56	0	5	126	711
387	0	108	0	25	384	1	19	11	0	57	2	0	0	0	0	0	0	0	0	0	1	106	0	0	90	804
389	0	13	1	6	229	0	6	12	0	1	0	2	0	0	0	0	0	0	0	0	0	74	0	0	137	481
390	0	8	2	21	639	61	3	12	0	1	1	13	0	0	0	0	0	0	0	0	0	129	0	0	82	972
391	1	20	1	5	60	6	0	4	0	2	2	5	0	0	0	0	0	0	0	0	1	25	0	0	48	180
392	0	351	3	16	51	3	0	7	0	36	1	0	0	0	0	0	0	0	0	0	2	122	0	2	109	703
393	0	203	5	6	7	0	0	20	0	29	0	0	0	0	0	0	0	0	0	0	5	74	0	1	27	377
394	4	502	1	12	5	1	0	3325	0	23	0	0	0	0	0	0	0	0	0	0	9	85	0	0	237	4204
395	28	388	0	35	24	28	4	190	0	70	1	2	0	0	0	0	0	0	0	0	5	97	1	0	53	926
396	0	108	0	2	40	1	0	40	0	58	4	17	0	0	0	0	0	0	0	0	3	64	0	0	66	403
397	0	139	135	3	23	1	40	5	0	4	3	20	0	0	0	0	0	0	0	0	1	26	1	1	71	473

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY 2014
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	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
398	32	117	453	23	76	39	10	9	0	1	0	9	0	0	0	0	0	0	0	0	0	64	0	0	79	912
399	0	38	3	47	426	54	43	3	0	0	8	2	0	0	0	0	0	0	0	0	0	14	0	0	91	729
400	0	39	0	24	75	245	3	104	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	2	62	564
401[2]	0	0	0	8	40	27	0	369	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	42	490
402	3	22	4	47	72	105	12	34	0	0	2	11	0	0	0	0	0	0	0	0	0	4	0	2	85	403
403	0	50	1	85	110	100	21	620	0	0	1	1	0	0	0	0	0	0	0	0	0	19	0	2	115	1125
404	12	268	33	0	9	361	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0	2	94	833
405	0	303	22	96	33	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	2	85	675
406	3	76	4	3	99	1	9	23	0	0	0	4	0	0	0	0	0	0	0	0	0	9	0	2	149	382
407	9	457	24	13	17	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	16	0	1	182	727
408	0	450	0	16	304	1	16	2	0	0	0	3	0	0	0	0	0	0	0	0	0	4	0	2	40	838
409	0	414	0	33	1693	0	38	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17	0	1	101	2298
410	6	31	0	3	432	2	35	0	0	0	0	11	0	0	0	0	0	0	0	0	0	24	0	3	173	720
411[2]	2	48	0	0	1	0	0	4	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	56	116
412	16	578	1	0	6	0	0	79	0	43	0	0	0	0	0	0	0	0	0	0	0	0	16	1	112	852
413	12	7	0	7	433	119	44	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	0	3	135	766
414	0	95	3	28	262	64	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	3	79	545
415	12	93	50	9	46	109	39	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	56	421
416	0	1	0	47	606	13	13	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	125	808
417	0	4	0	31	169	27	48	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	5	289	579
418	0	0	0	1	395	62	4	11	0	0	28	4	0	0	0	0	0	0	0	0	0	0	0	0	164	669
419	236	3274	38	8	3	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	353	3921
420	8	63	0	25	111	338	11	0	0	0	27	20	0	0	0	0	0	0	0	0	0	2	0	2	90	697
421	0	8	0	26	110	663	18	0	0	0	22	15	0	0	0	0	0	0	0	0	0	0	0	1	234	1097
422	0	0	0	35	110	5	32	87	0	0	2	8	0	0	0	0	0	0	0	0	12	3	0	19	220	533
423	0	0	0	3	46	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	516	0	0	25	595
424[2]	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	52	0	0	13	73
425	0	0	0	2	33	0	1	0	1	4	3	0	1	0	0	0	0	0	0	0	5	485	1	4	44	584
426	0	12	0	21	230	0	10	11	0	0	20	2	0	0	0	0	0	0	0	0	1	70	0	4	97	478
427	0	1	1	23	312	26	37	50	0	0	74	1	0	0	0	0	0	0	0	0	0	4	0	2	87	618
428	0	3	0	9	826	12	7	2	0	0	44	1	0	0	0	0	0	0	0	0	0	1	0	0	246	1151
429	0	2	0	6	98	78	39	8	0	0	49	3	0	0	0	0	0	0	0	0	0	0	0	2	119	404
430	0	0	0	5	211	39	15	0	0	0	36	3	0	0	0	0	0	0	0	0	0	0	0	1	157	467
431	0	13	0	11	440	177	33	660	0	0	38	3	0	0	0	0	0	0	0	0	0	1	0	0	272	1648
432	0	4	0	6	146	77	23	592	0	0	58	4	0	0	0	0	0	0	0	0	0	0	0	0	236	1146
433	0	5	0	54	559	52	18	101	0	0	15	26	0	0	0	0	0	0	0	0	1	0	0	6	291	1128
434	0	1	8	5	84	12	51	512	0	0	14	21	0	0	0	0	0	0	0	0	0	0	0	2	194	904
435	31	110	0	0	2	0	74	59	147	76	0	1	0	0	0	0	0	0	0	0	2	4	10	1	798	1315

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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 FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	[1]TOTAL * OTHER	TOTAL ALL
436	0	121	3	7	74	0	60	303	0	0	15	8	0	0	0	0	0	0	0	0	10	0	1	9	224	835
437	6	256	0	0	26	31	28	113	6	29	3	0	0	0	0	0	0	0	0	0	12	110	5	3	796	1424
438	0	45	0	0	212	1	13	494	7	3	54	4	0	0	0	0	0	0	0	0	1	27	1	1	150	1013
439	0	2	0	0	411	51	3	38	0	0	36	10	0	0	0	0	0	0	0	0	0	1	0	1	266	819
440	0	11	0	3	186	1	2	46	4	1	61	5	0	0	0	0	0	0	0	0	0	170	0	6	191	687
441	0	185	0	0	229	1	10	4	5	5	26	1	0	0	0	0	0	1	0	0	0	101	0	1	153	722
442	1	0	0	0	32	0	0	0	6	8	0	0	1	0	0	0	0	0	0	0	0	10	7	0	322	387
443	6	101	0	3	60	0	13	21	22	7	12	1	1	0	0	0	0	0	0	0	1	126	0	1	53	428
445[2]	2	34	0	0	3	13	0	0	2	7	1	0	1	0	0	0	0	0	0	0	0	36	0	0	47	146
446	0	17	0	0	35	4	20	50	6	45	105	0	2	0	0	0	0	0	0	0	16	71	2	0	165	538
447	0	12	0	2	57	1	2	9	87	69	7	0	2	0	0	0	0	0	0	0	2	137	1	0	123	511
448	0	0	0	10	29	0	0	0	3	18	0	0	1	0	0	0	0	0	0	0	0	312	3	0	172	548
449	11	0	0	1	12	0	0	0	14	32	0	0	2	0	0	0	0	0	0	0	0	224	10	0	167	473
451[2]	3	0	0	0	18	0	0	2	6	10	0	0	0	0	0	0	0	0	0	0	0	32	1	0	59	131
452	7	3	0	2	49	22	2	564	9	58	32	0	1	0	0	0	1	0	0	0	7	59	10	2	211	1039
453	0	0	0	1	144	0	2	30	4	40	2	0	0	3	0	0	0	0	0	0	117	151	23	0	622	1139
454	0	0	0	0	21	0	0	0	1	8	0	0	1	0	0	0	1	0	0	0	69	107	35	0	532	775
455	0	9	0	2	360	0	1	0	67	8	0	0	2	0	0	0	0	0	0	0	1	13	16	0	269	748
456	9	2	0	1	373	0	12	2029	1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	1	140	2574
457	154	523	7	13	378	0	13	137	24	30	0	0	1	0	0	0	0	0	0	0	2	56	0	3	542	1883
458[2]	21	72	0	0	270	0	0	10	0	8	0	0	0	0	0	0	0	0	0	0	1	17	1	1	110	511
459[2]	2	0	0	0	13	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	4	1	0	9	32
460	0	0	0	0	44	0	0	0	0	4	0	0	1	0	0	0	0	0	0	0	2	0	18	0	746	815
461	0	0	0	0	541	0	0	0	2	10	0	0	1	0	0	0	0	0	0	0	2	1	64	0	494	1115
462	0	1	0	1	18	0	0	0	16	16	0	0	1	0	0	0	0	0	0	0	0	38	45	0	120	256
463	0	1	0	0	22	0	1	0	21	16	0	0	2	0	0	0	0	0	0	0	0	40	32	0	179	314
TOTAL	1095	68600	1388	1554	24033	6740	2542	41932	2360	1990	1087	364	605	1350	232	191	1472	406	292	4585	3151	6595	8195	1247	89813	272919

[1] "Total other" in southern areas are comprised primarily of rays, large sharks and spotted hake.

[2] Excluded from stock assessment due to an unacceptable tow evaluation code.

[3] Tows conducted during the flatfish catchability study on Georges Bank.

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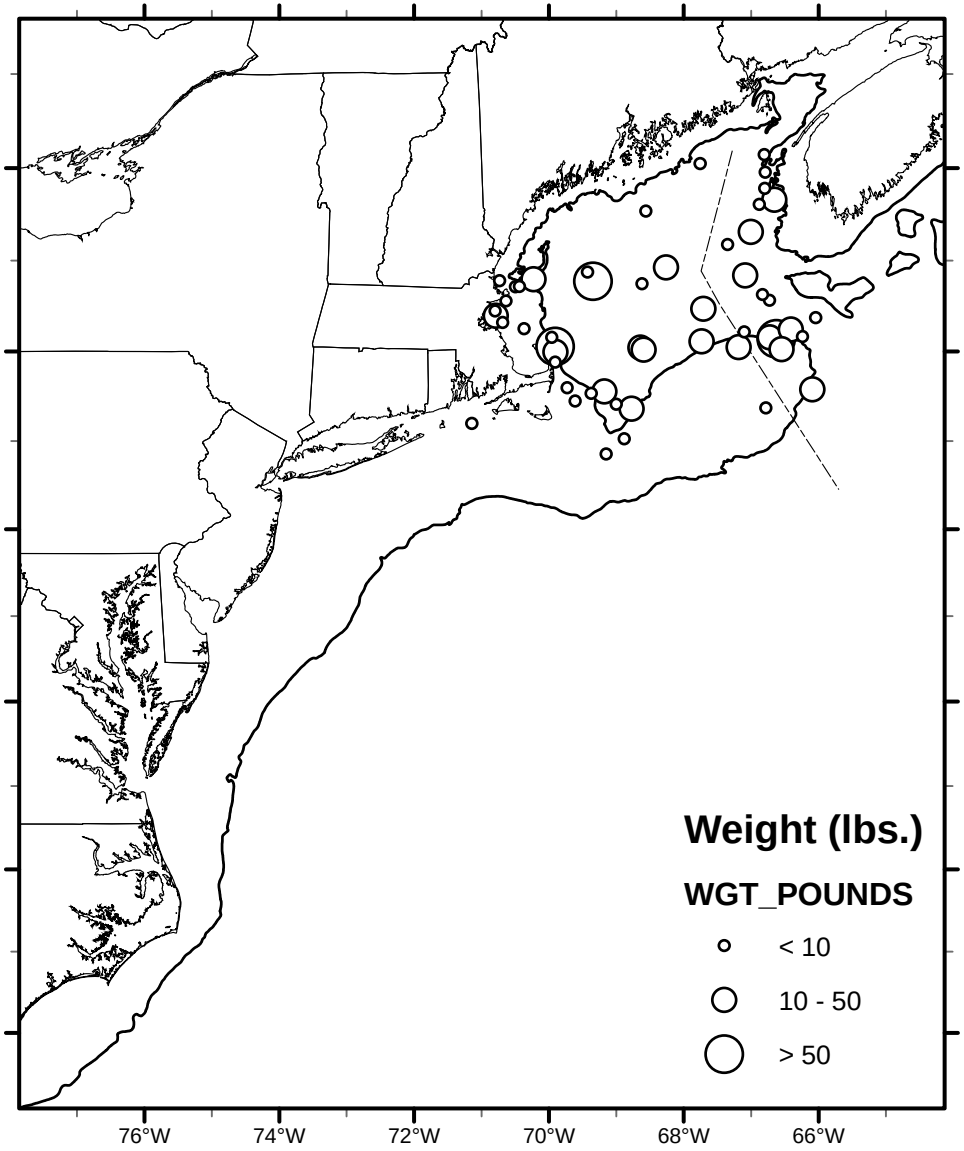
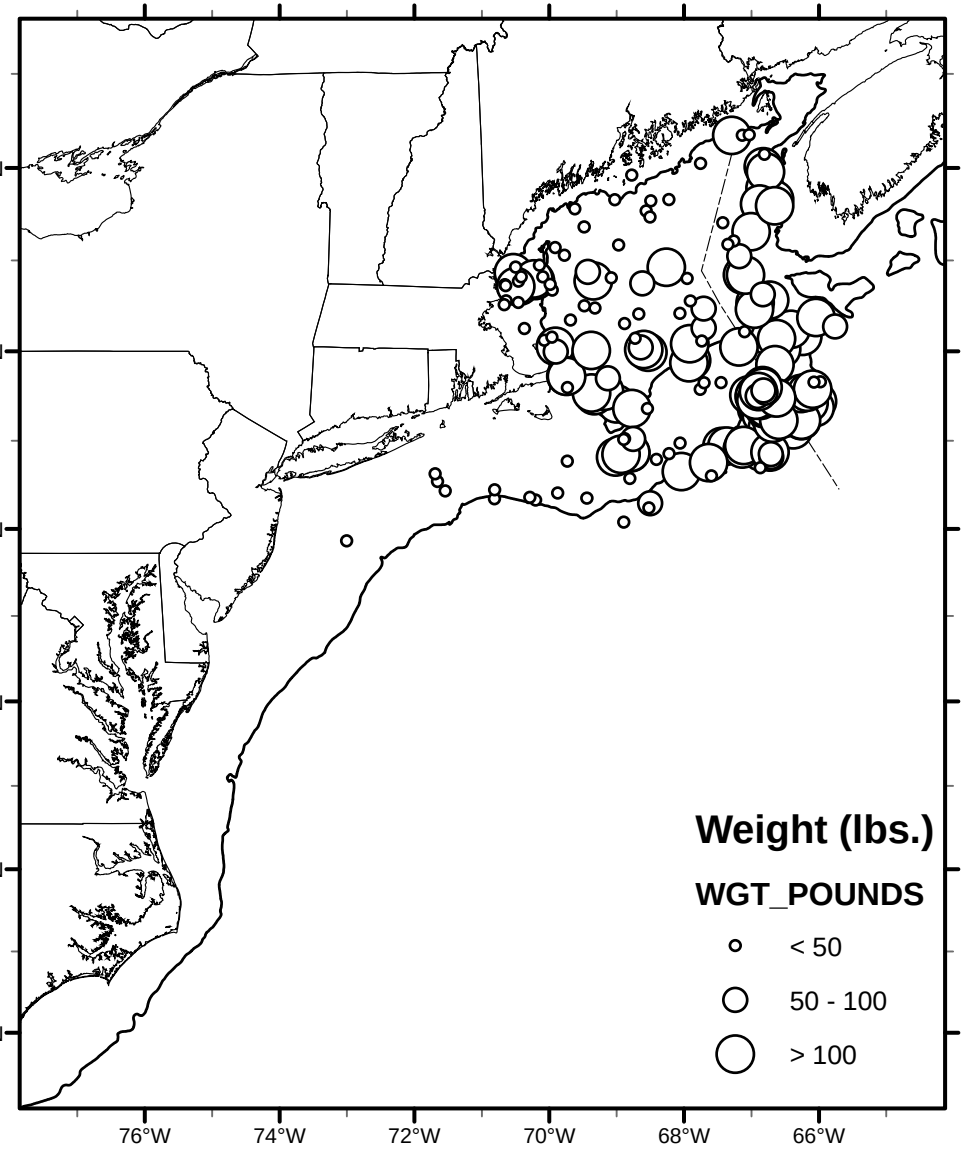
ATLANTIC COD



HADDOCK



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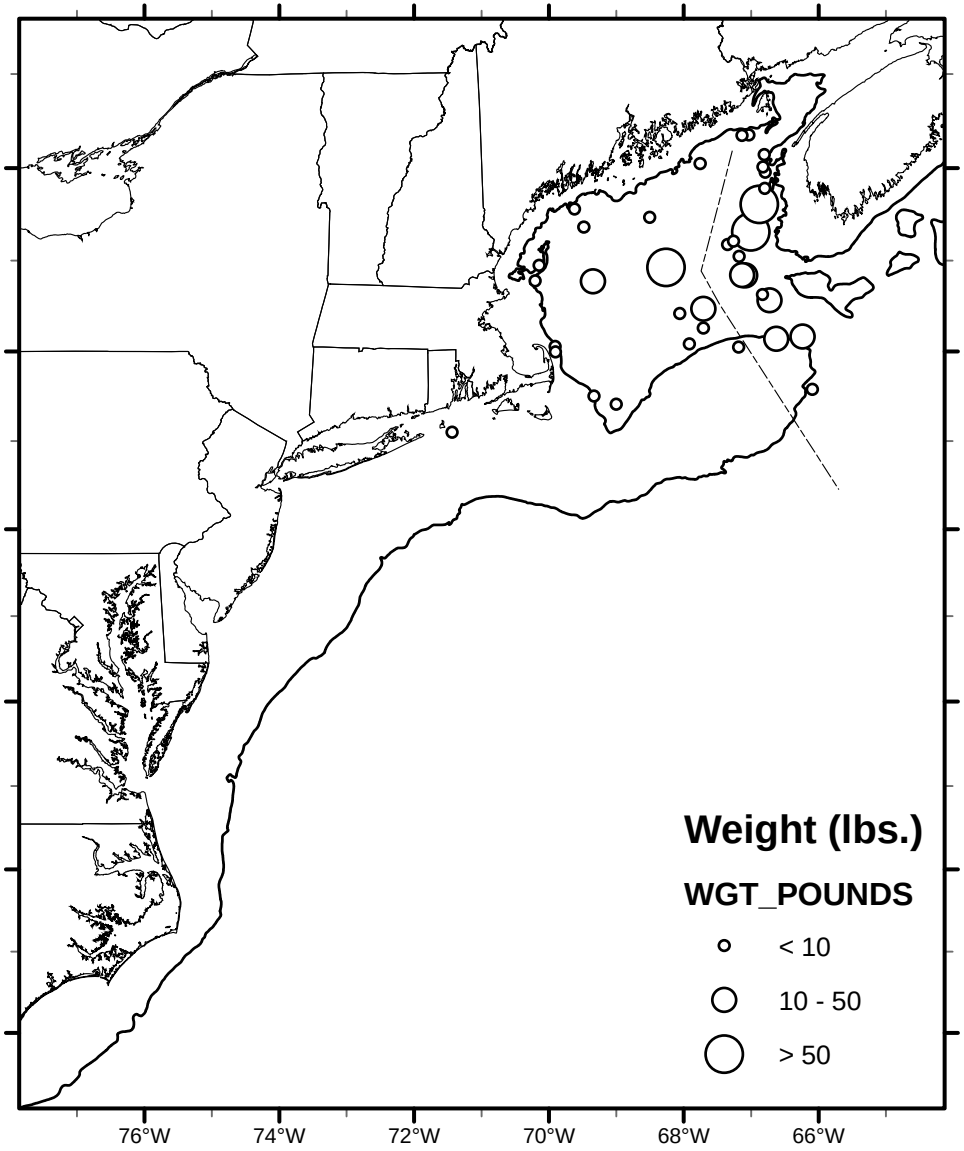
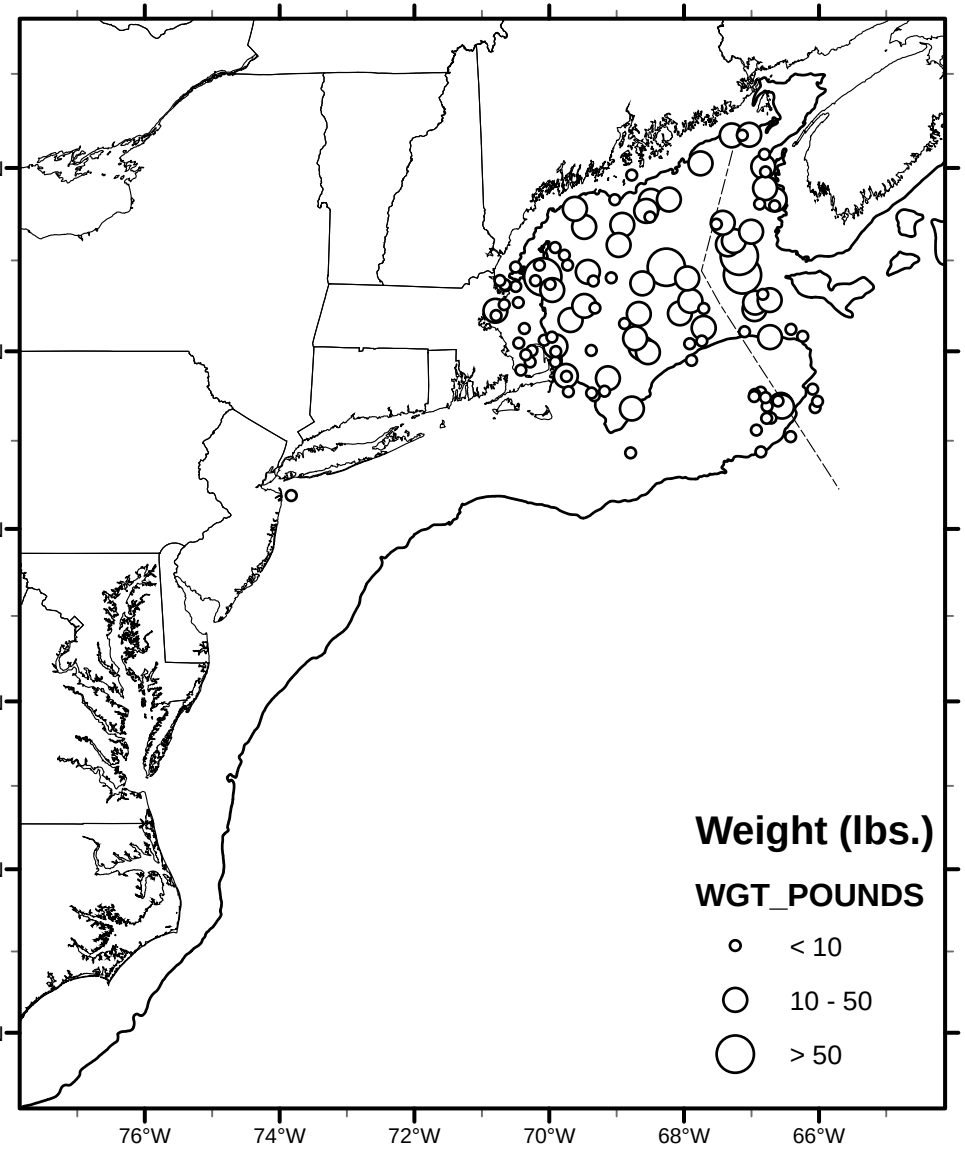
POLLOCK



WHITE HAKE



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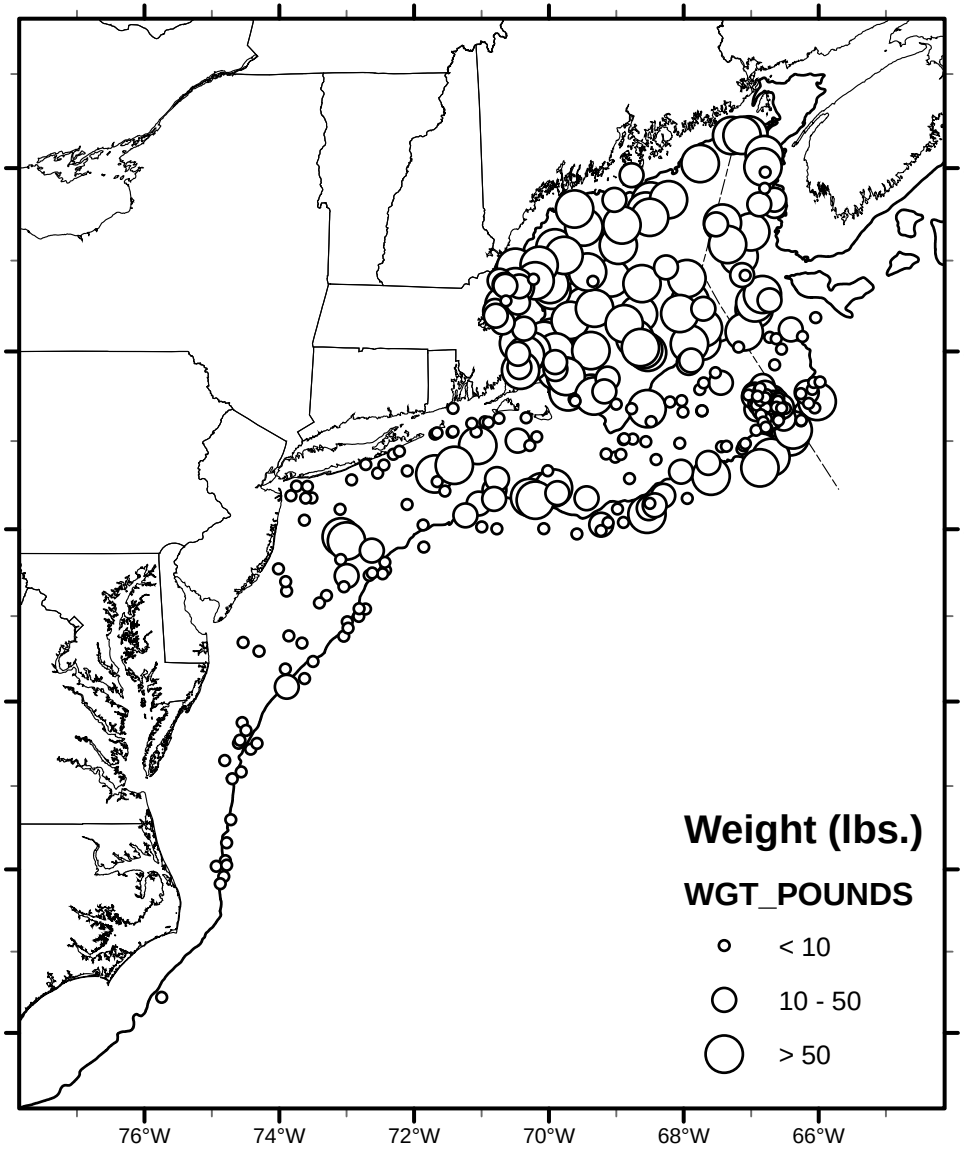
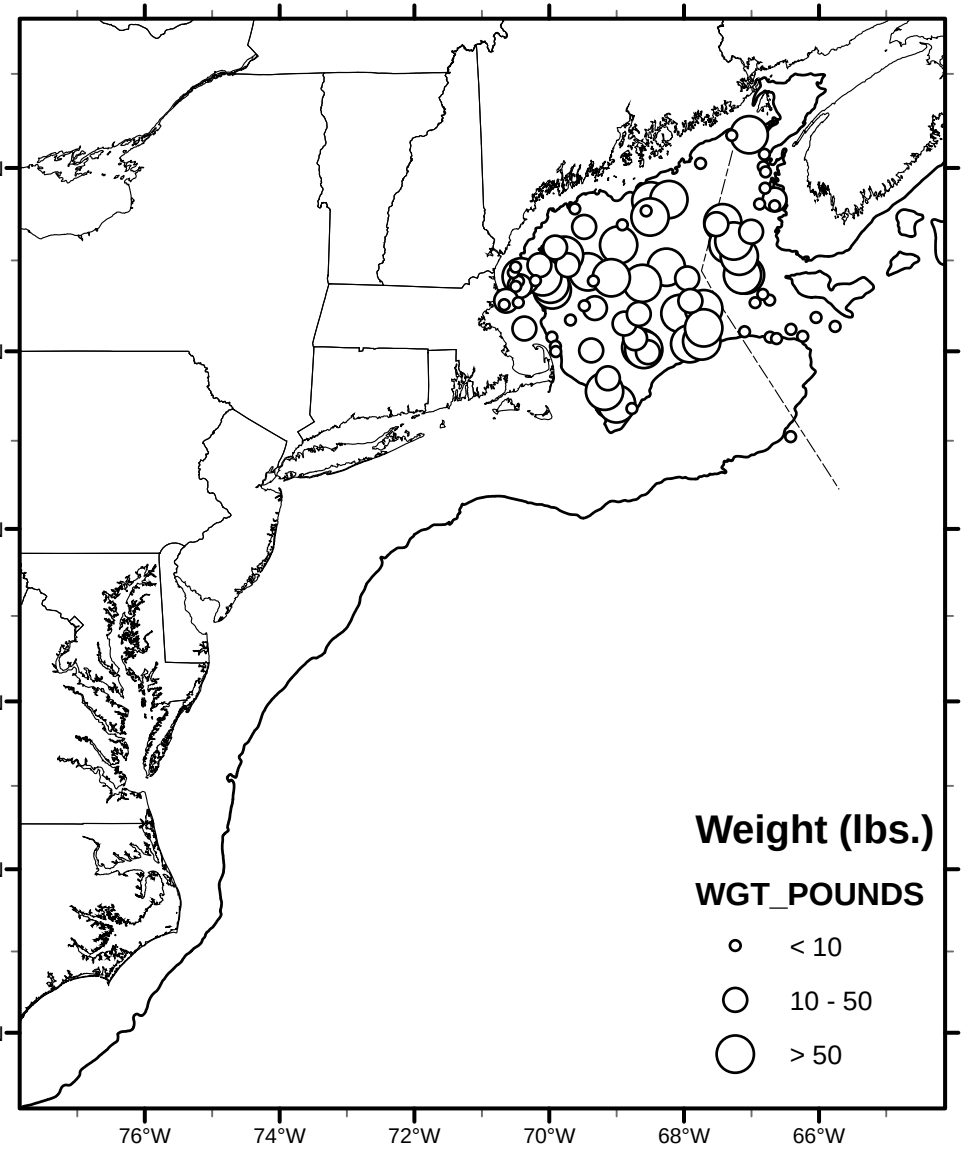
SILVER HAKE



ACADIAN REDFISH



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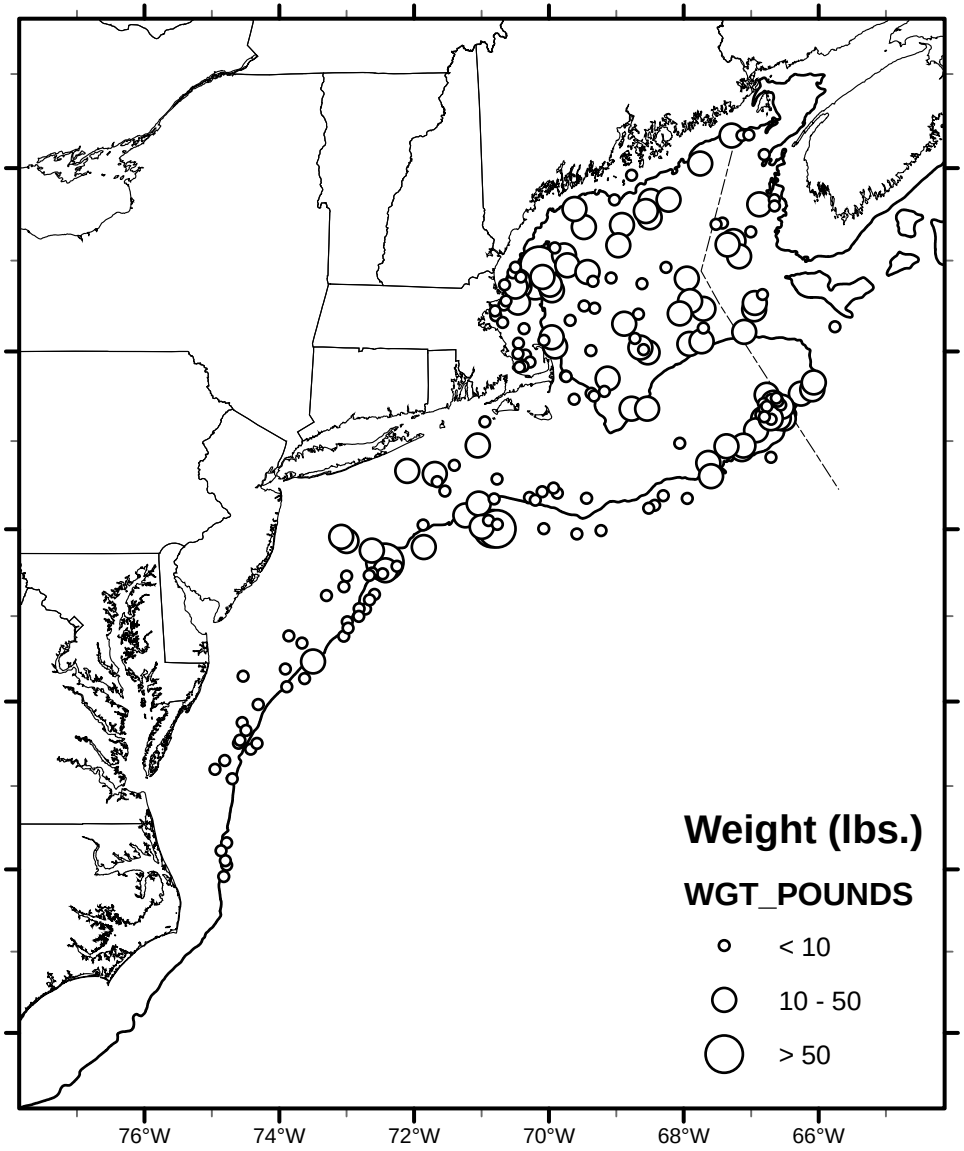
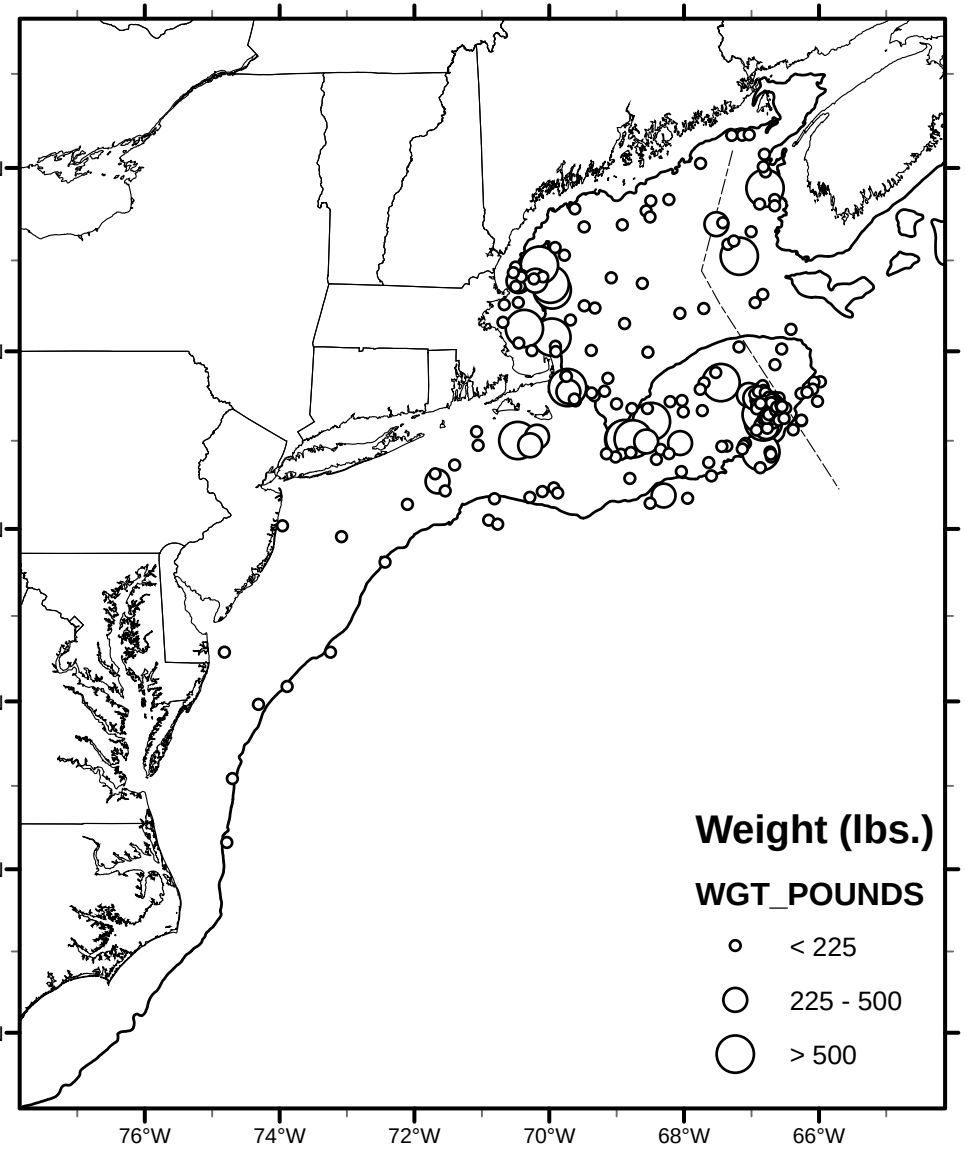
GOOSEFISH



SPINY DOGFISH



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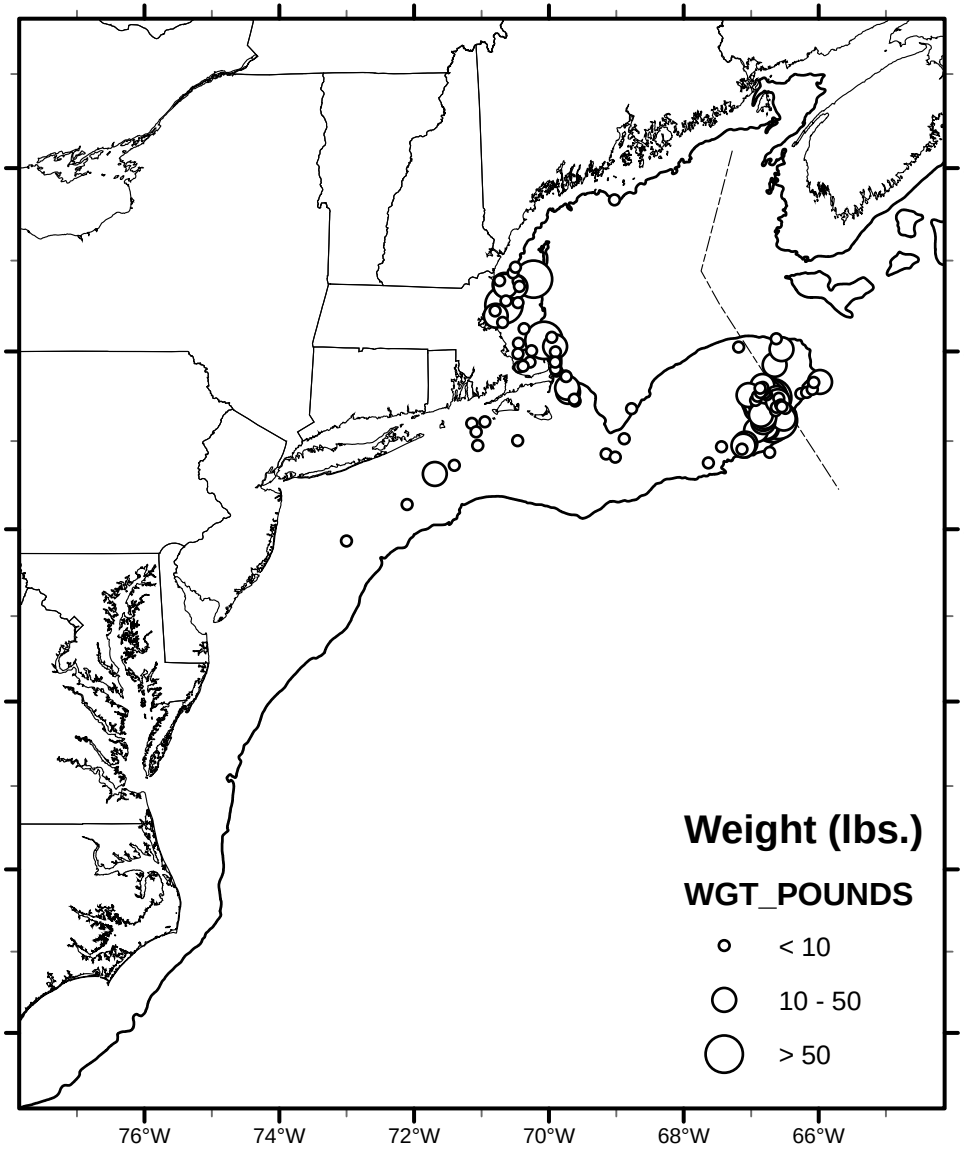
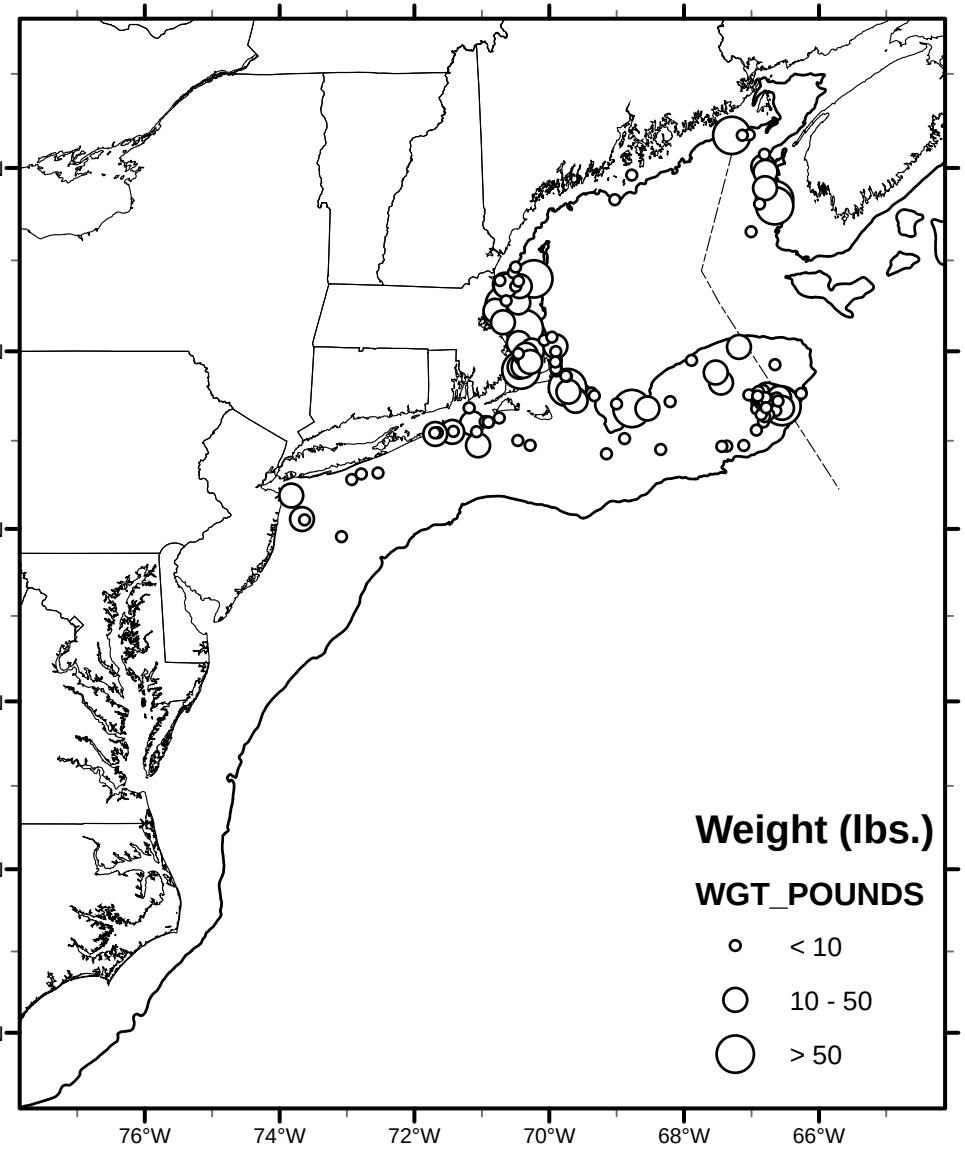
YELLOWTAIL FLOUNDER



WINTER FLOUNDER



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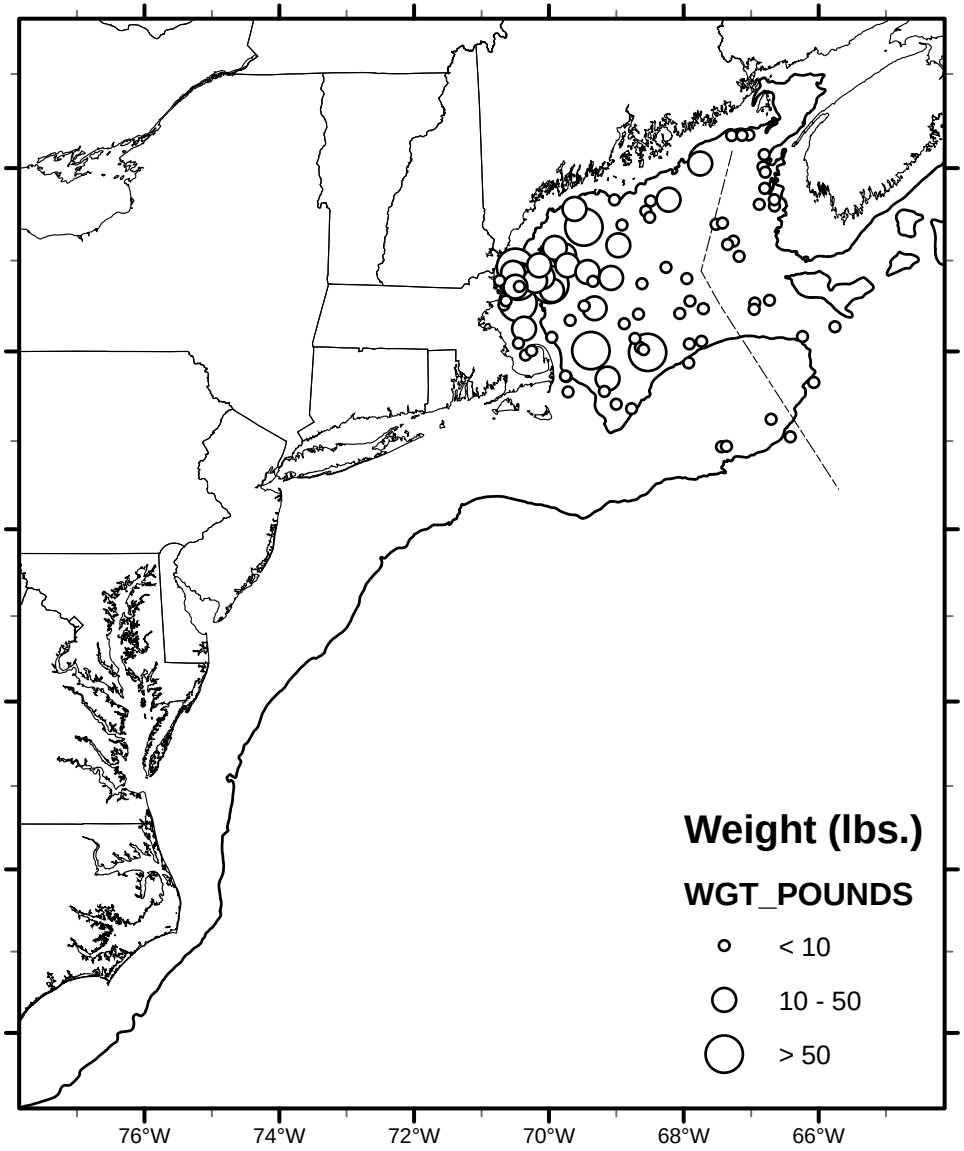
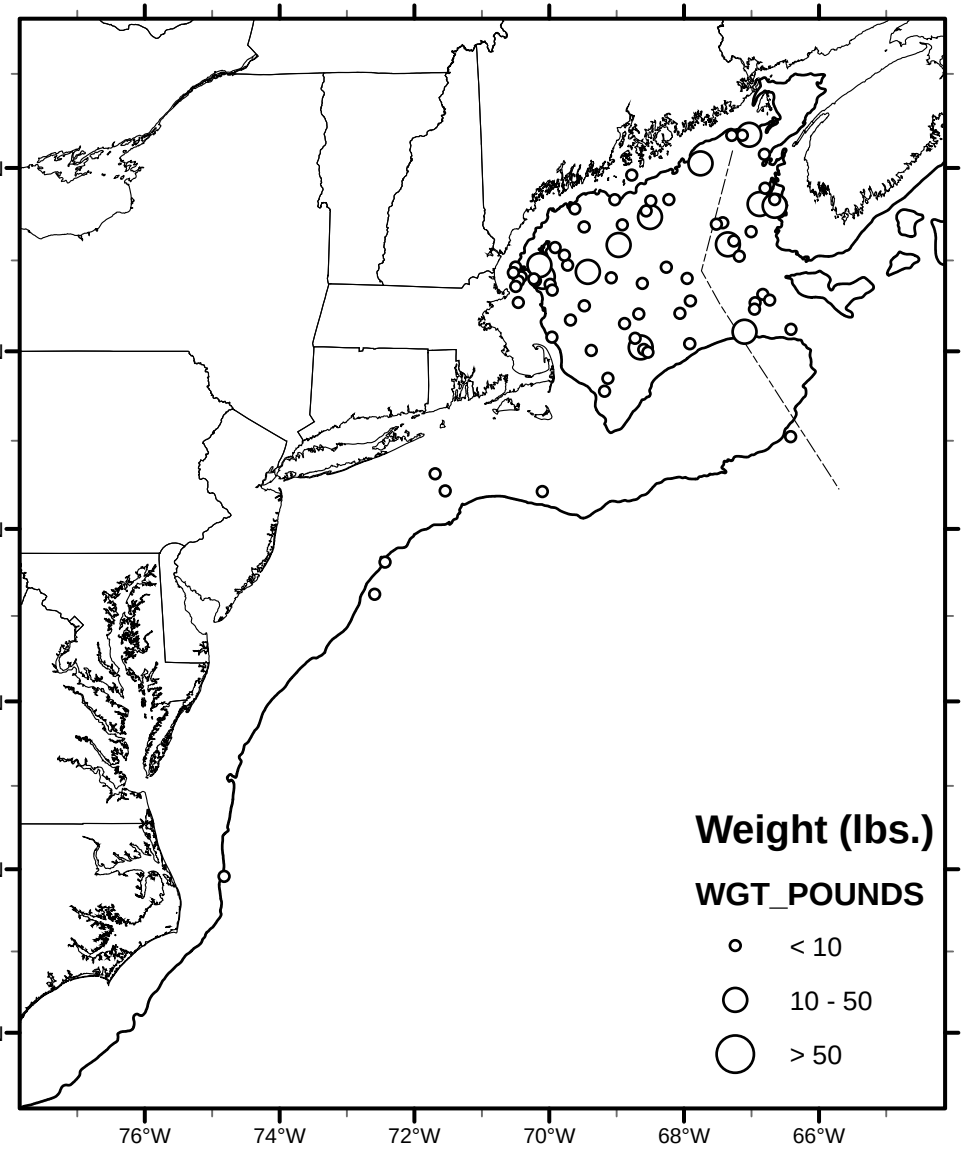
AMERICAN PLAICE



WITCH FLOUNDER



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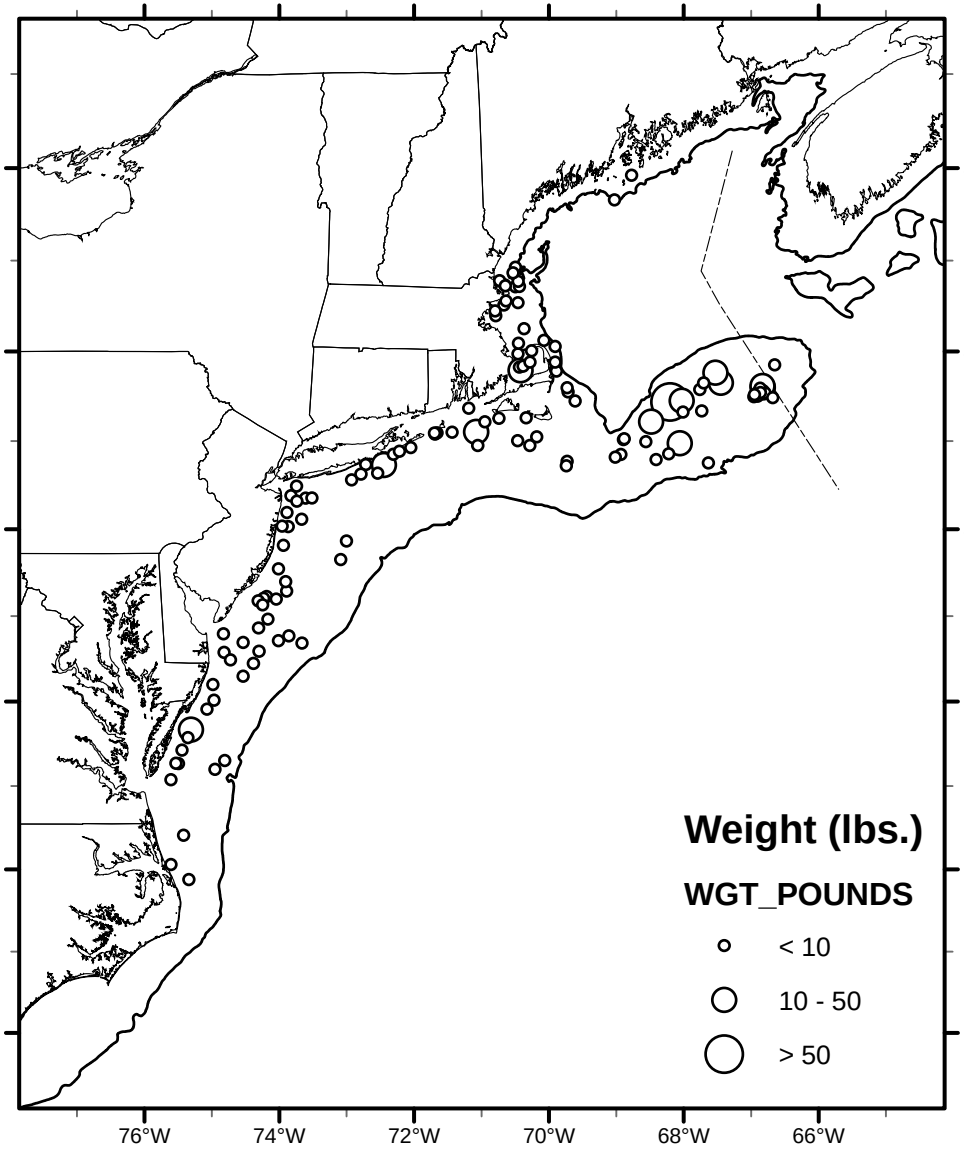
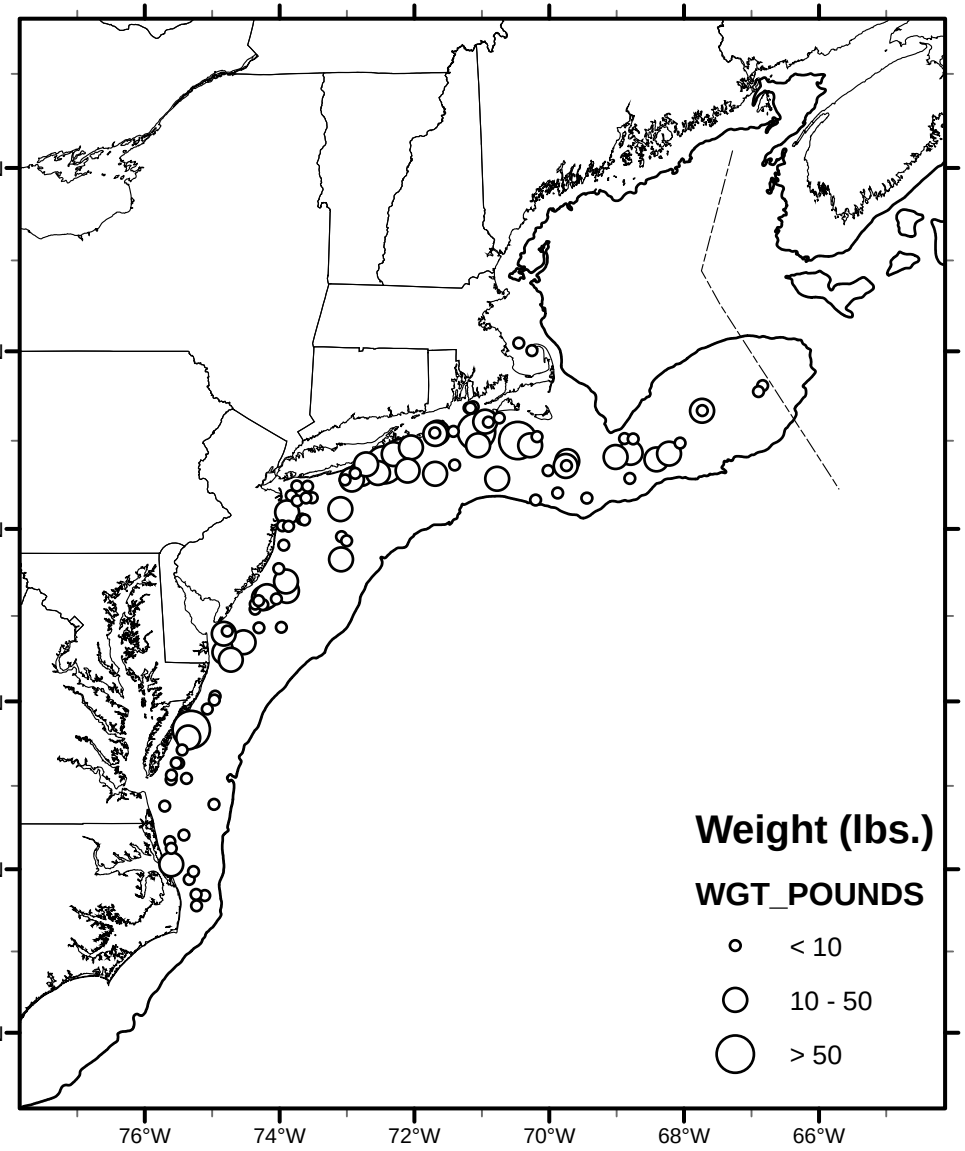
WINDOWPANE FLOUNDER



SUMMER FLOUNDER



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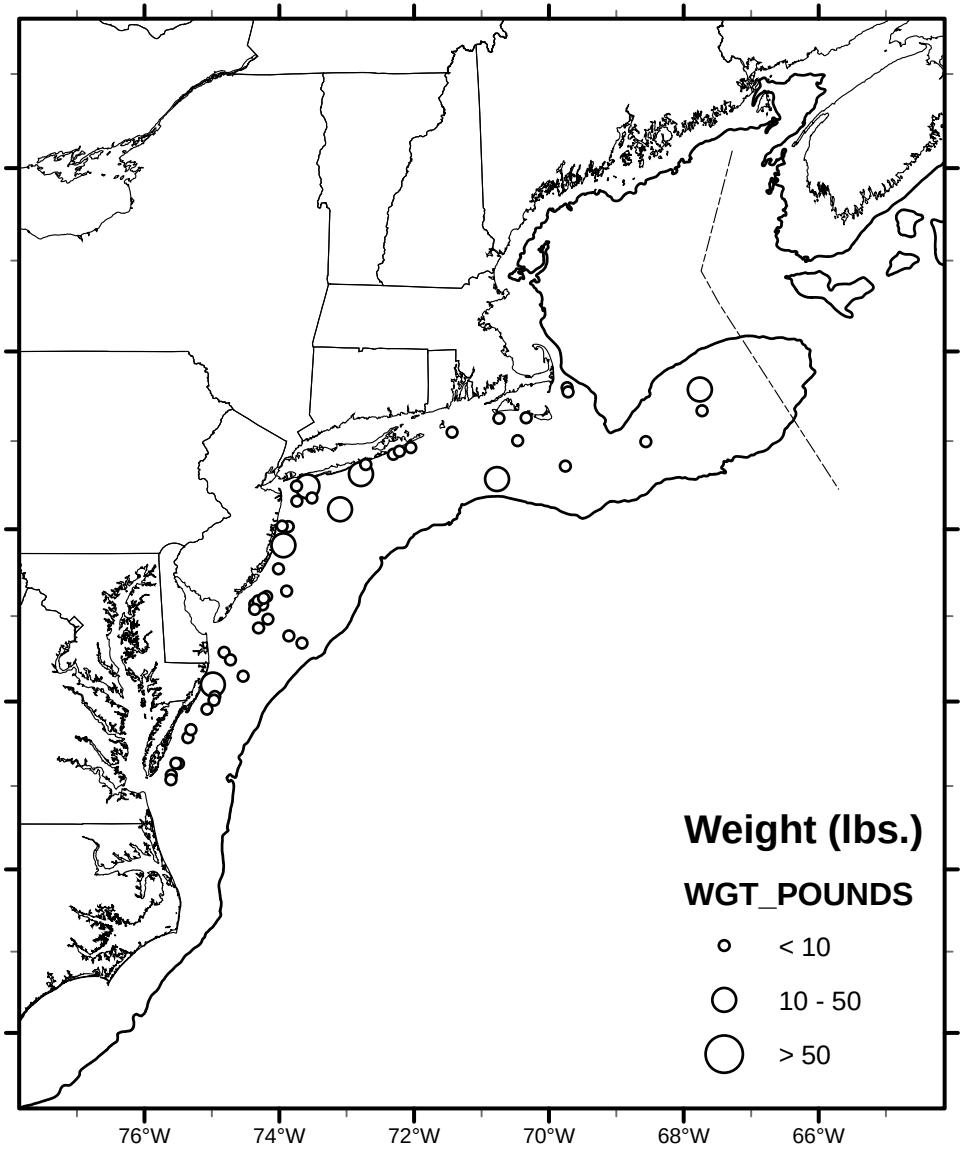
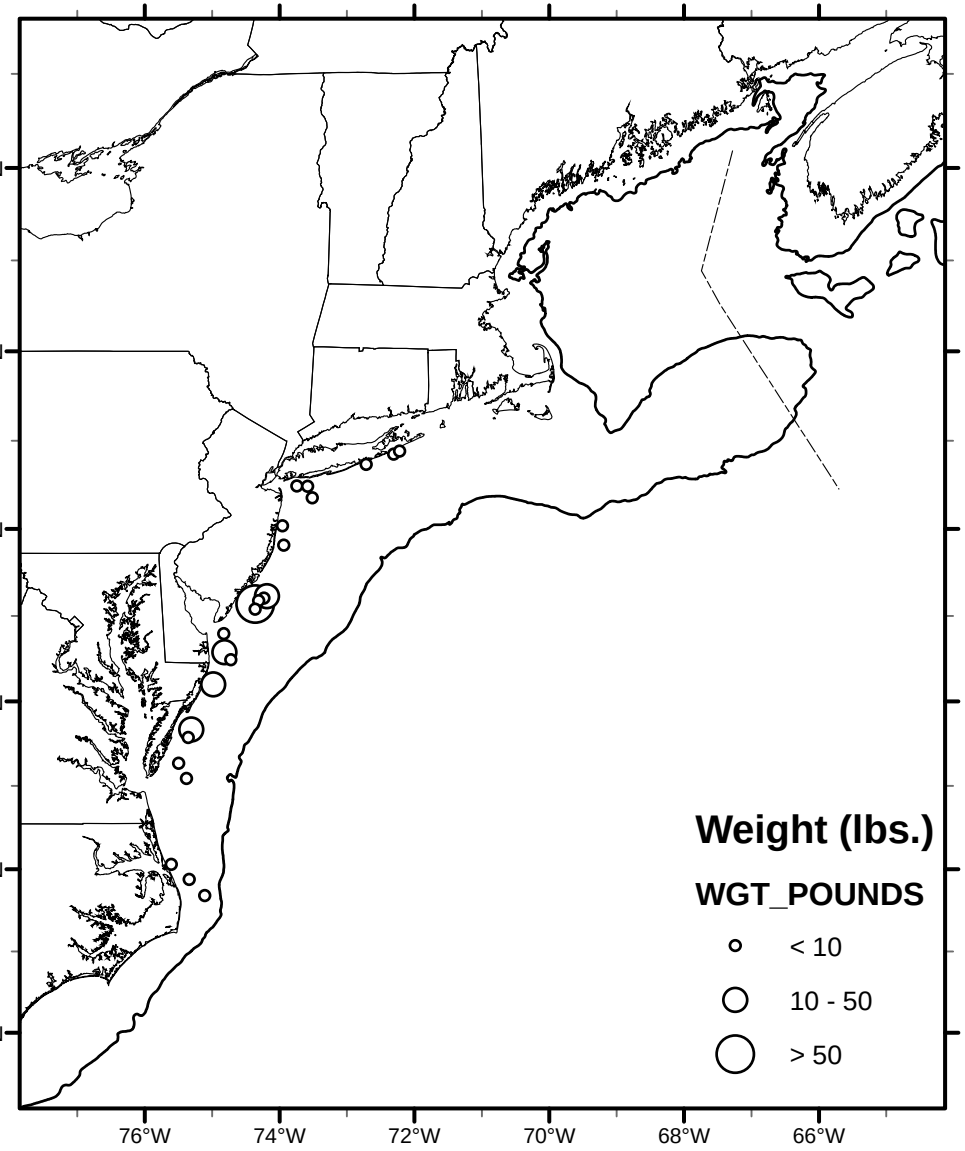
BLUEFISH



WEAKFISH



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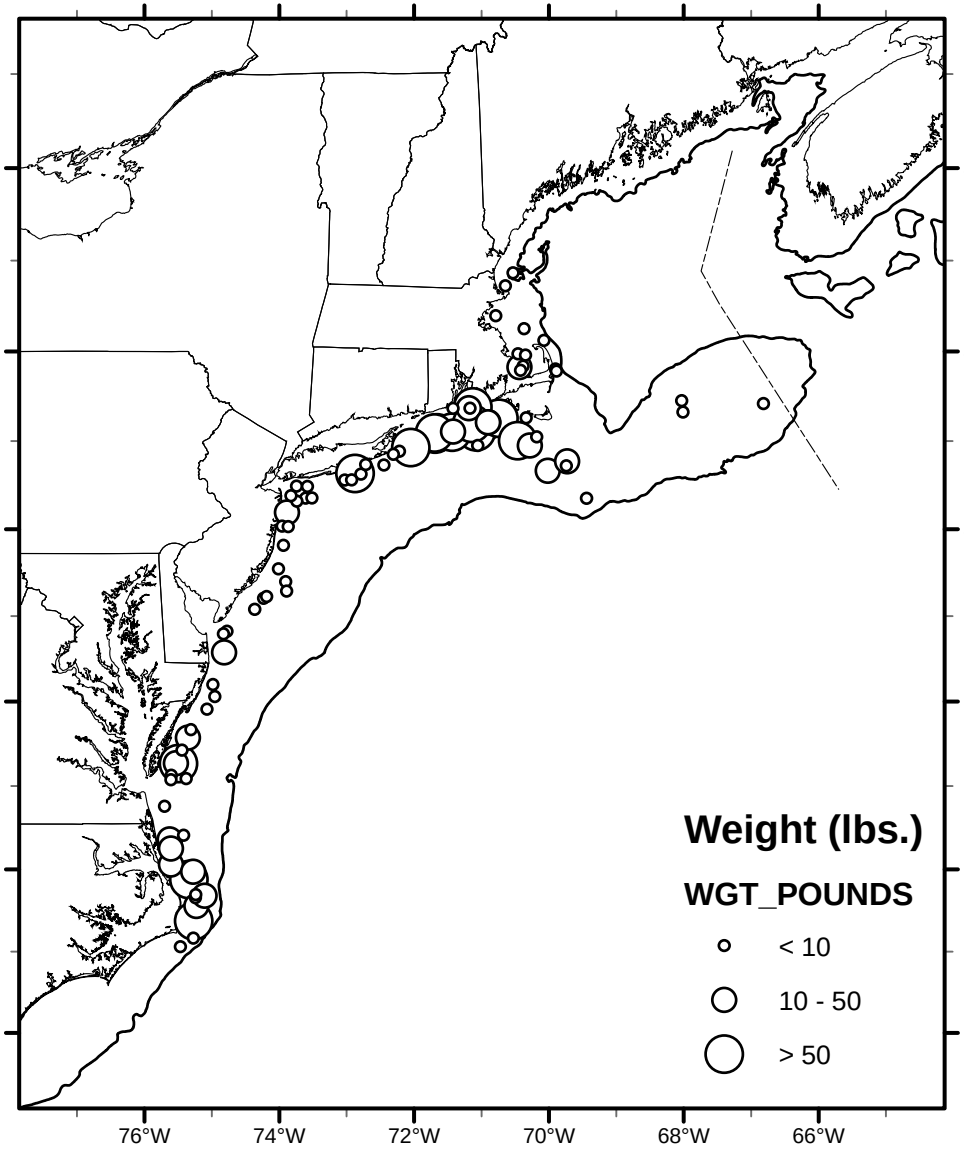
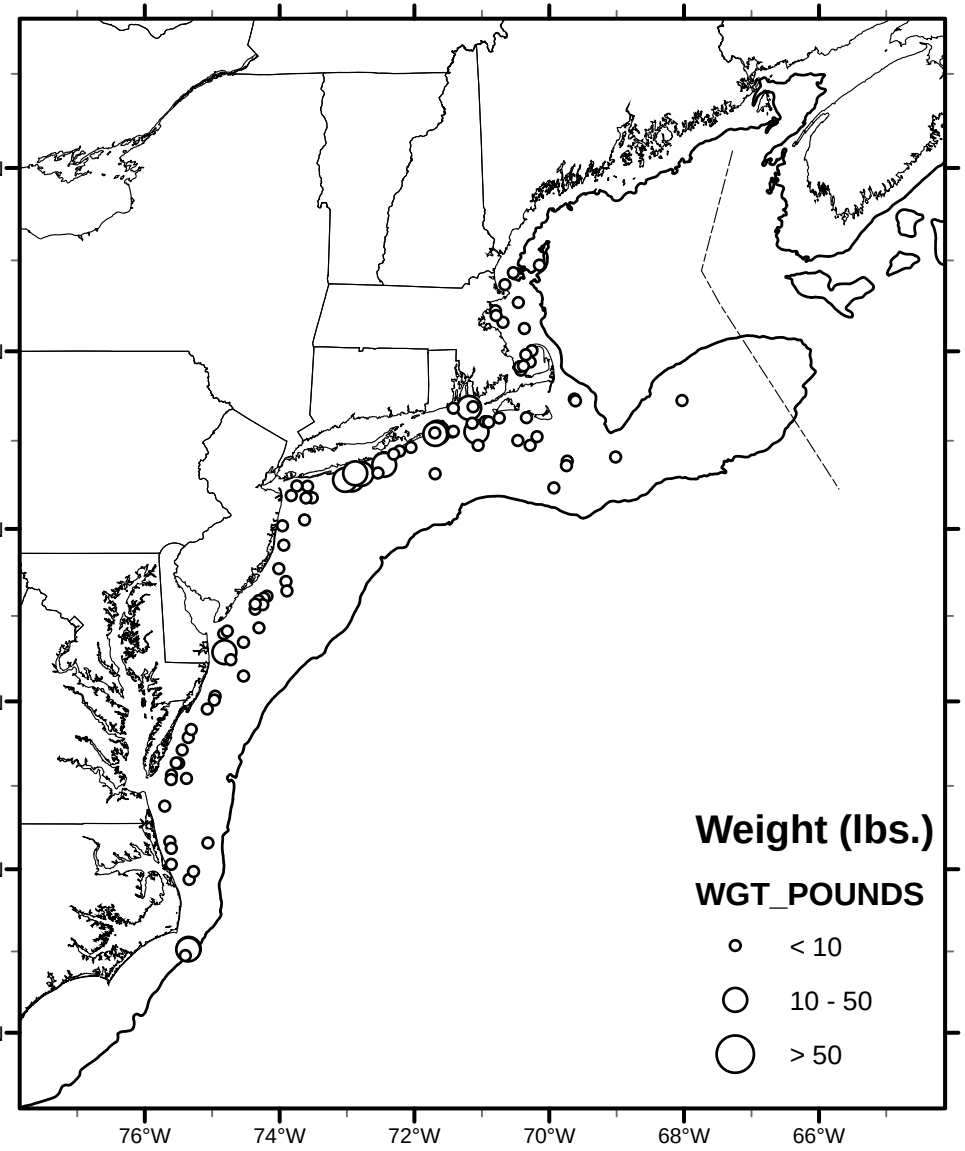
SCUP



BLACK SEA BASS



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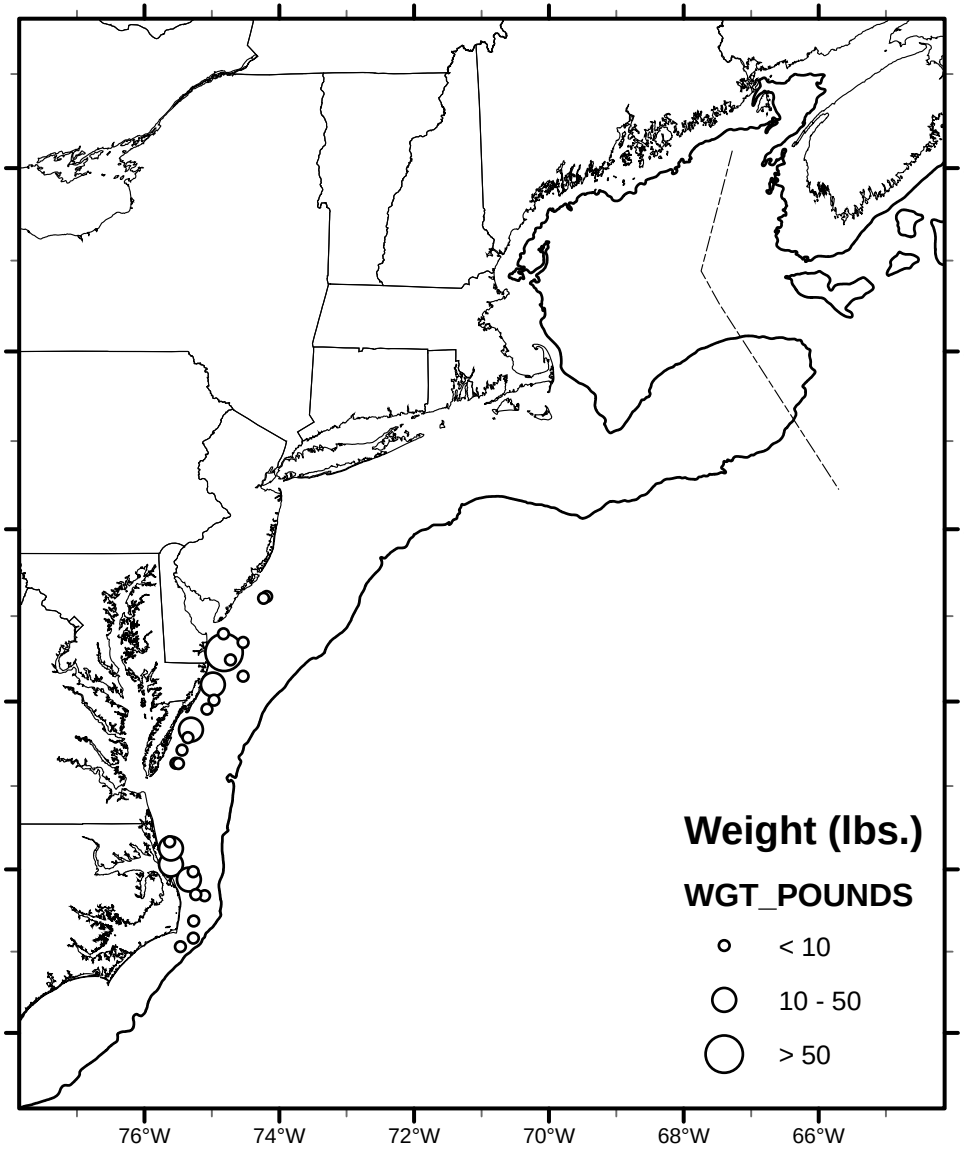
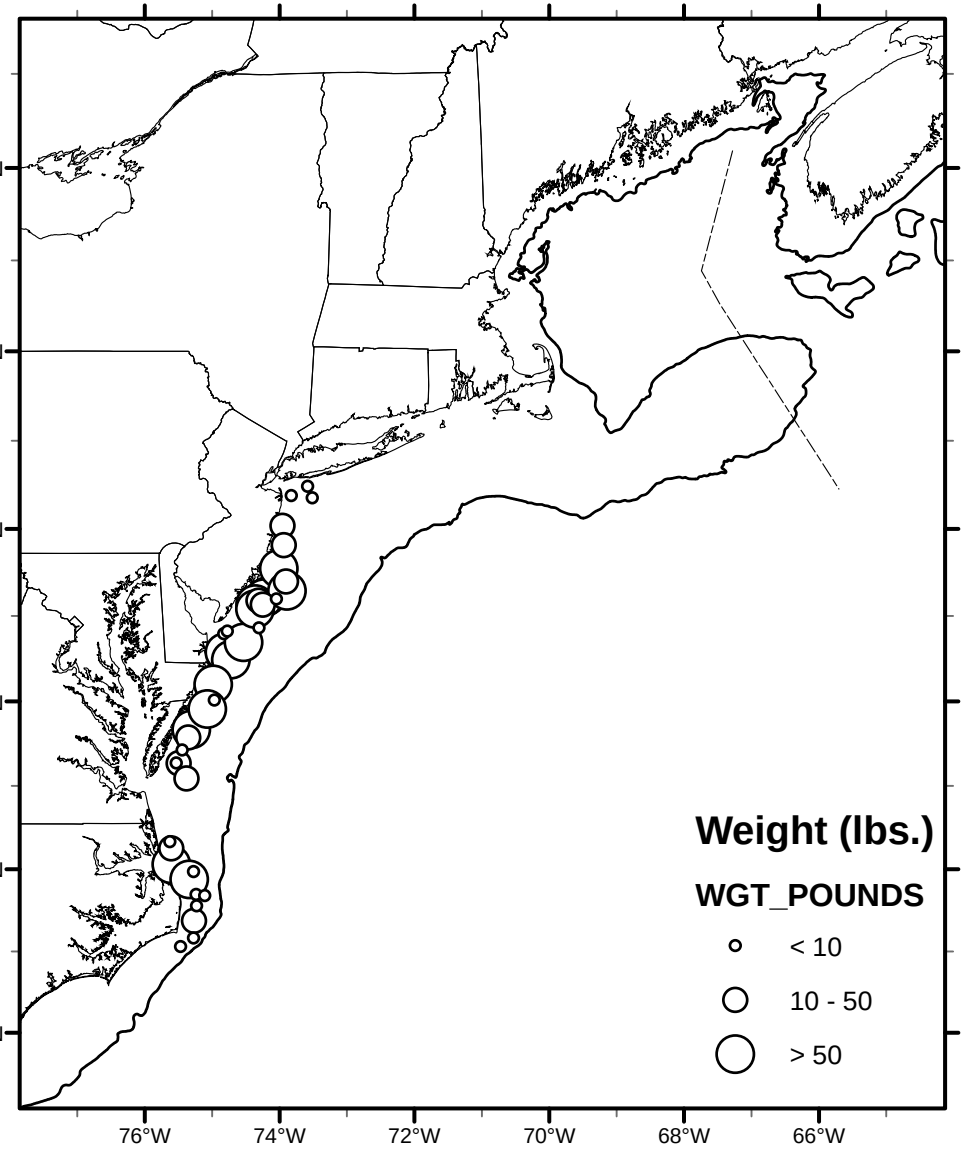
SPOT



ATLANTIC CROAKER



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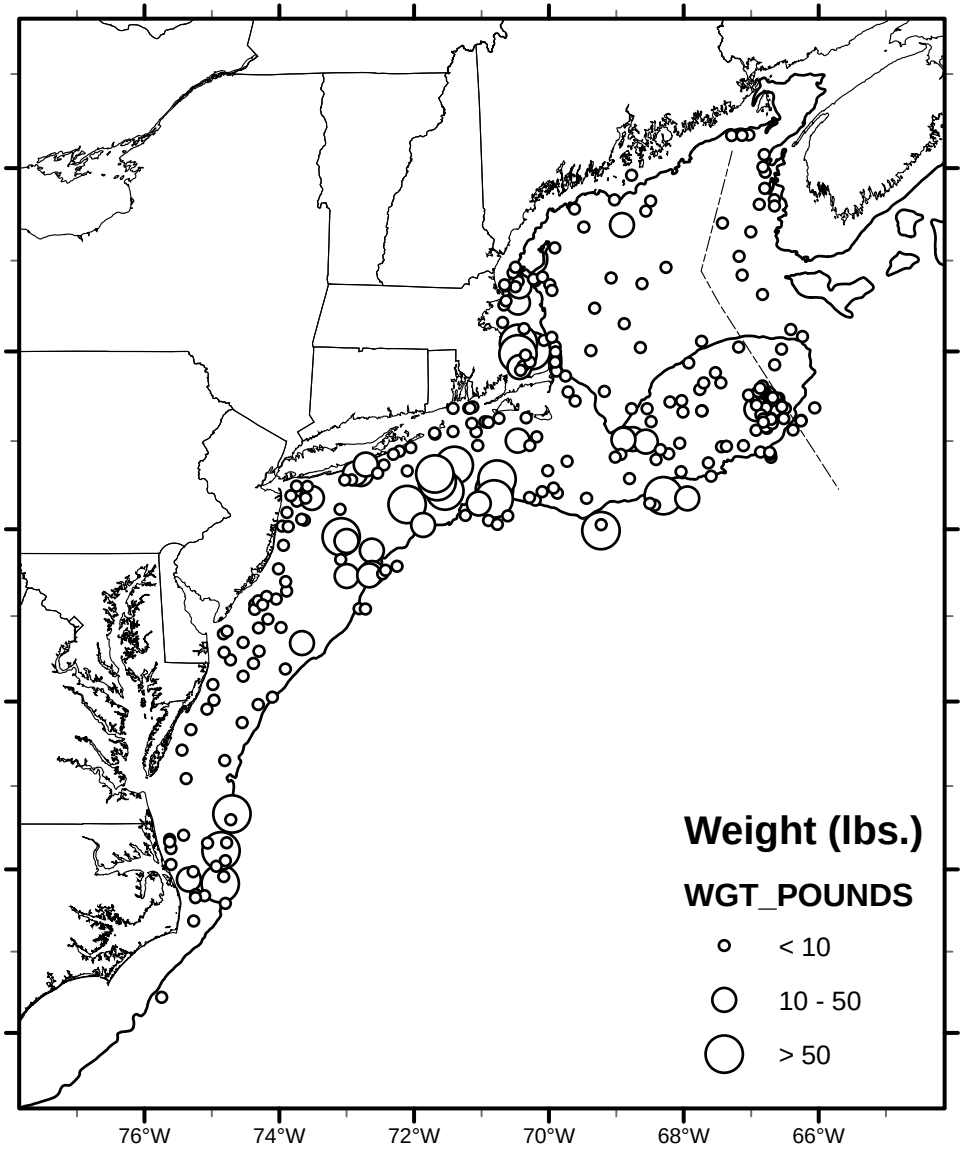
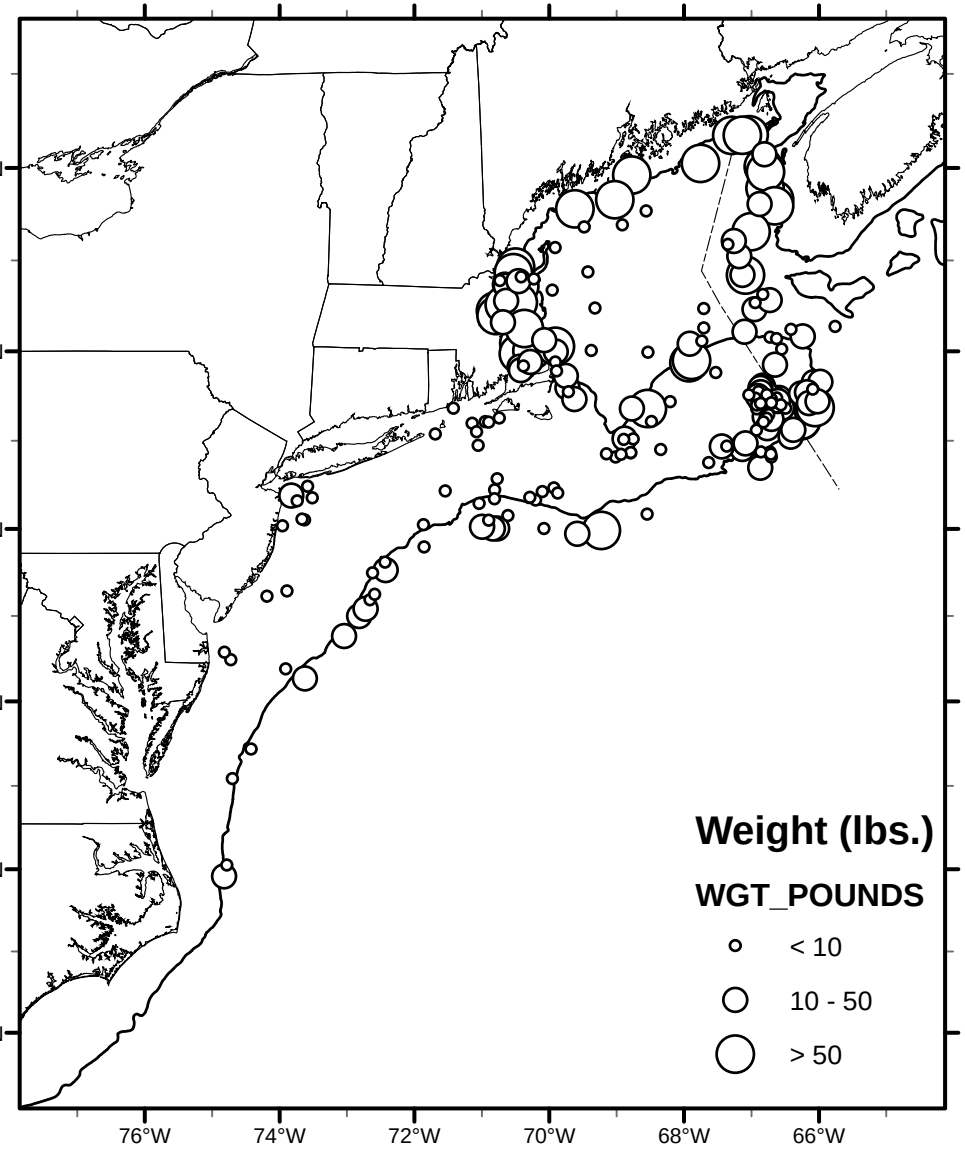
BUTTERFISH



AMERICAN LOBSTER



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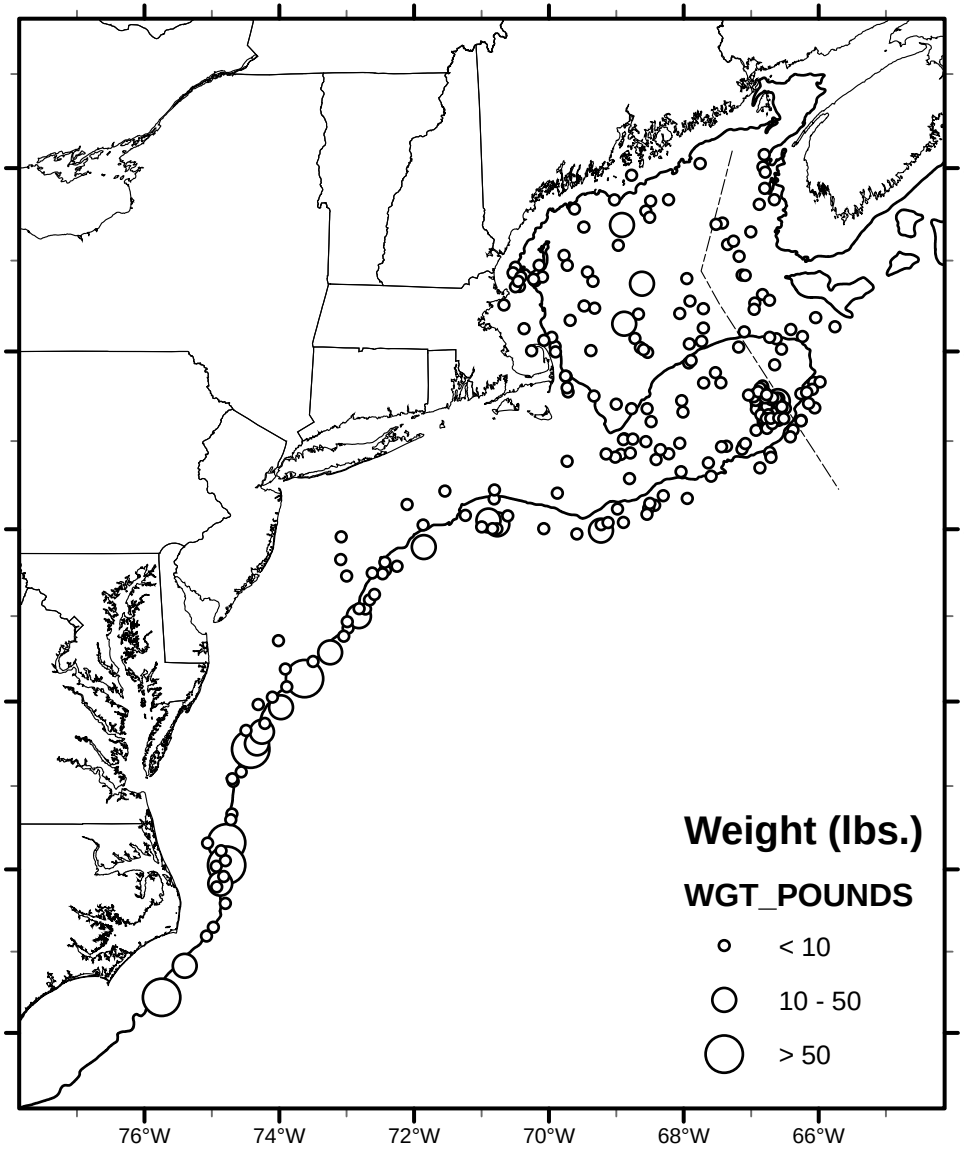
NORTHERN SHORTFIN SQUID



LONGFIN INSHORE SQUID