RESOURCE SURVEY REPORT Catch Summary
NOAA Fisheries Service
Northeast Fisheries Science Center
Autumn Bottom Trawl Survey
Cape Hatteras - Gulf of Maine
6 September – 11 November 2012

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: 2012

Resource Survey Report

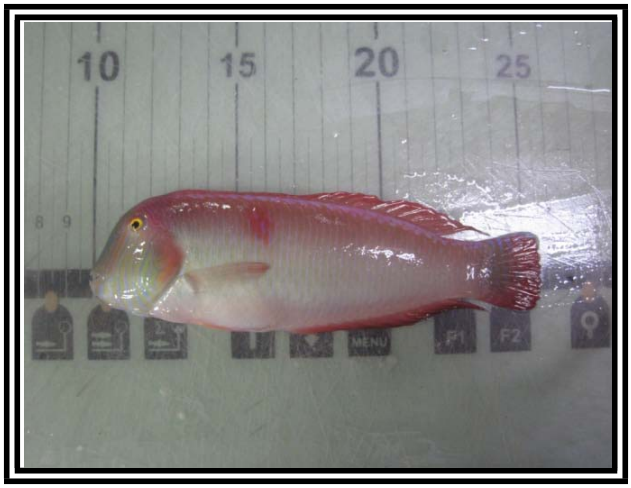
Bottom Trawl Survey

Cape Hatteras – Gulf of Maine

6 September – 11 November 2012

NOAA Ship *Henry B. Bigelow*

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



A pearly razorfish (*Xyrichtys novacula*).

A deepbody boarfish (*Antigonia capros*) on the left and a shortspine boarfish (*Antigonia combatia*) on the right.

Scientists sampling American plaice (*Hippoglossoides platessoides*).

Scientists sorting through a catch of butterfish (*Peprilus triacanthus*).

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 NOAA FSV *Delaware II* and the NOAA 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 NOAA FSV *Delaware II* and the NOAA 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 NOAA FSV *Albatross IV* and the NOAA 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 NOAA 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 NOAA FSV *Albatross IV* sampling with the Yankee 36 bottom trawl using historical protocols and the NOAA 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 NOAA 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
6 September – 11 November 2012

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 2012 Autumn Bottom Trawl Survey conducted by the NOAA FSV *Henry B. Bigelow*. Tows were made with a NEFSC standardized 4 seam, 3 bridle otter trawl rigged with a rockhopper sweep, 550kg (1200lbs) Poly Ice Oval doors, and 36.6m (20 fathoms) 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 the Ecosystems Surveys Branch website at:

http://www.nefsc.noaa.gov/femad/ecosurvey/mainpage/.

Choose "Resource Survey Reports", then select your season and year of interest.

Field Notes

In an effort to share some of the natural history observations made during the bottom trawl survey, we have requested that the Chief Scientists on each part of the cruise comment on some of the more interesting catches that were brought aboard the NOAA FSV *Henry B. Bigelow*.

Leg I: Fascinating Fish

Leg I of the 2012 Fall Bottom Trawl Survey had to deal with the typical fall assortment of low pressure systems. This year, however, the spacing and position of the systems were more conducive to completing the first leg in a timely manner, as opposed to hindering its progress. Highlights of the leg included the first-ever survey capture of a great hammerhead shark, which measured approximately 11 feet, weighed over 670 lbs, and was tagged and released. Some of the more unusual captures included pearly razorfish – small, but beautiful members of the wrasse family that have bright colors, large teeth, flexible bodies, and are predisposed to bite when handled. Another unusual capture was a large (25.5 cm) blackwing searobin, a species readily recognizable by the (ironically) bright blue margins around its "wings", which are actually modified pectoral fins. Ocellated flounder, a smaller relative of the fluke, showed up in surprising numbers this year. Normally, we see very few of these conspicuously marked flounder, which have four, large, black ocelli - or eyespots - on the body. This year, however, we captured a total of 15. Perhaps this occurrence was related to warm water temperatures, as we also witnessed large amounts of spot as far north as New York City.

Leg II: Steady Progress

Leg II of the Fall Bottom Trawl Survey saw us heading straight offshore and eventually south of Hudson Canyon before making our turn back north. We had to work around quite a bit of offshore lobster gear near the canyons, but interactions were avoided. Large catches of dogfish dominated our tows west of the Great South Channel, but all were easily brought on board with some additional strengthening lines on the codend.
Just east of Nauset Beach, on an otherwise peaceful day, we lost the entire trawl from the doors back on a serious hang. The ships officers were able to pinpoint the exact location of the hang using Olex and, with this information, the NOAA R/V *Gloria Michelle* was able to retrieve all the gear, including a full set of net sensors. Other than that, the trip was relatively uneventful, though very productive in terms of stations completed and areas covered.

Leg III: Communication is Key

This year, Leg III was able to complete all of Georges Bank, all of the stations in Canada, as well as a number of stations in Downeast Maine. We completed 114 stations and steamed over 1350 nautical miles. We lost very little time due to weather, despite near misses from two tropical storms. However, the weather was fairly choppy and rough for much of the trip, making sampling more challenging in the narrow, deep strata on the edge of Georges Bank. The skill and perseverance of the crew allowed us to continue

to work in the less than ideal conditions that persisted for much of the cruise.
This season we began working more closely with the Atlantic Offshore Lobsterman's Association (AOLA) to increase our ability to effectively sample areas that typically have high concentrations of lobster gear. By sharing our station locations with them, the AOLA boats were able to give us space around a number of stations so that we could accomplish a tow without interacting with their gear. We were also given the names of vessels that did have gear in the vicinity of some of our stations, so we were able to communicate directly with them to get a better understanding of exactly where and how their gear was set, again, allowing us to minimize interactions with AOLA member gear. Overall, we believe this collaboration has had benefits to both survey and fishing operations.

Leg IV: A Surprising Catch

While towing off the backside of Cape Cod on November 7, approximately 1 mile offshore of Truro's Highland Light, we had a surprising catch: a 13.5 inch northern kingfish (*Menticirrhus saxatilis*) that weighed in at just over one pound. This fish is a species we commonly catch in large numbers up the coast all the way to Long Island, NY, but it is unusual for one to be seen so far north, particularly this late in the year.

John Galbraith
Chief Scientist
Survey Leg I
(508) 495-2392
John.Galbraith@noaa.gov

Nathan Keith
Chief Scientist
Survey Leg II
(508) 495-2224
Nathan.Keith@noaa.gov

Geoff Shook
Chief Scientist
Survey Leg III
(508) 495-2017
Geoffrey.Shook@noaa.gov

Heath Cook
Chief Scientist
Survey Leg IV
(508) 495-2029
Heath.Cook@noaa.gov

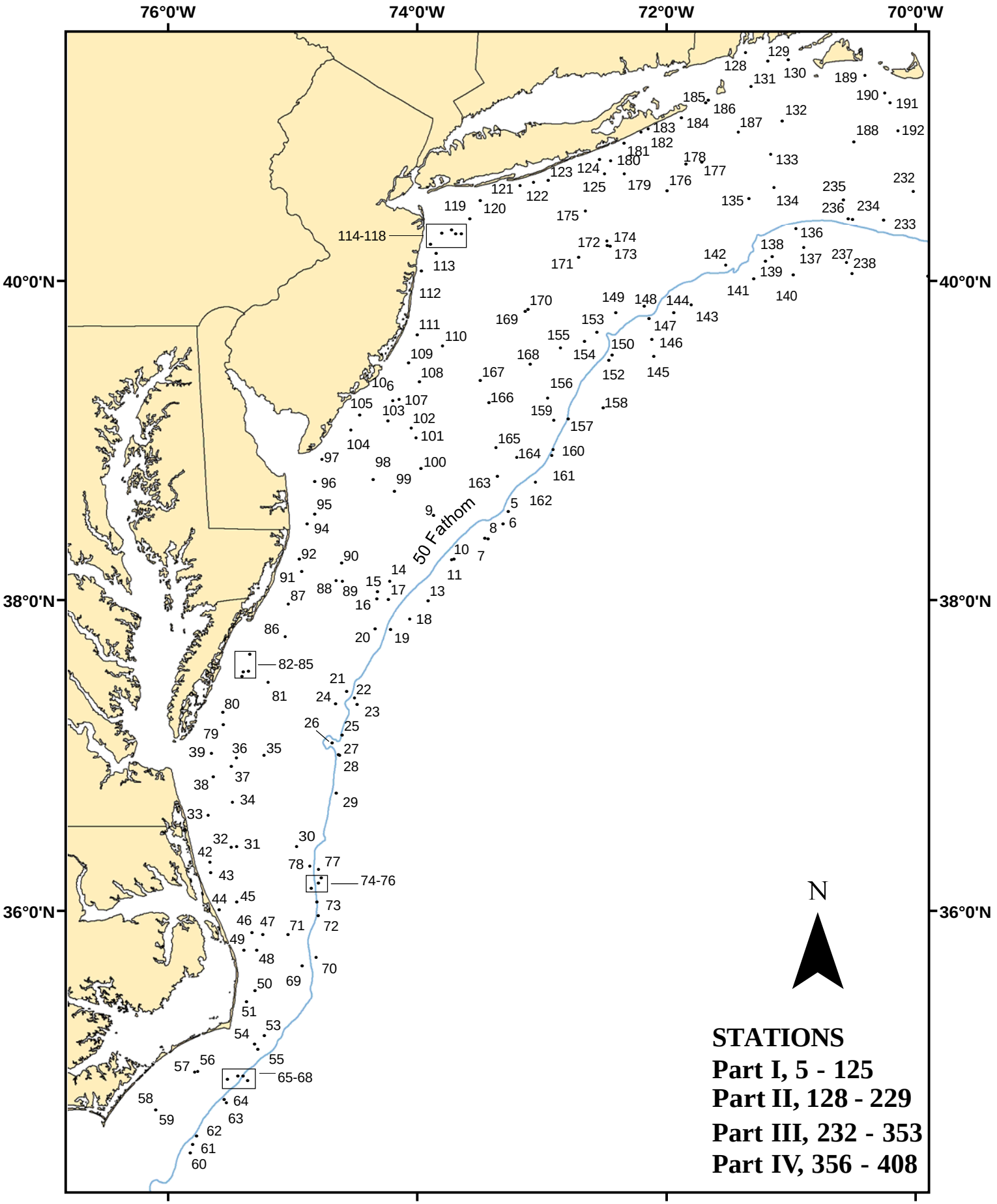


Figure 1. Trawl hauls made from NOAA FSV *Henry B. Bigelow* (12 - 04), during NOAA Fisheries Service, Northeast Fisheries Center Autumn Bottom Trawl Survey, 06 September - 11 November 2012

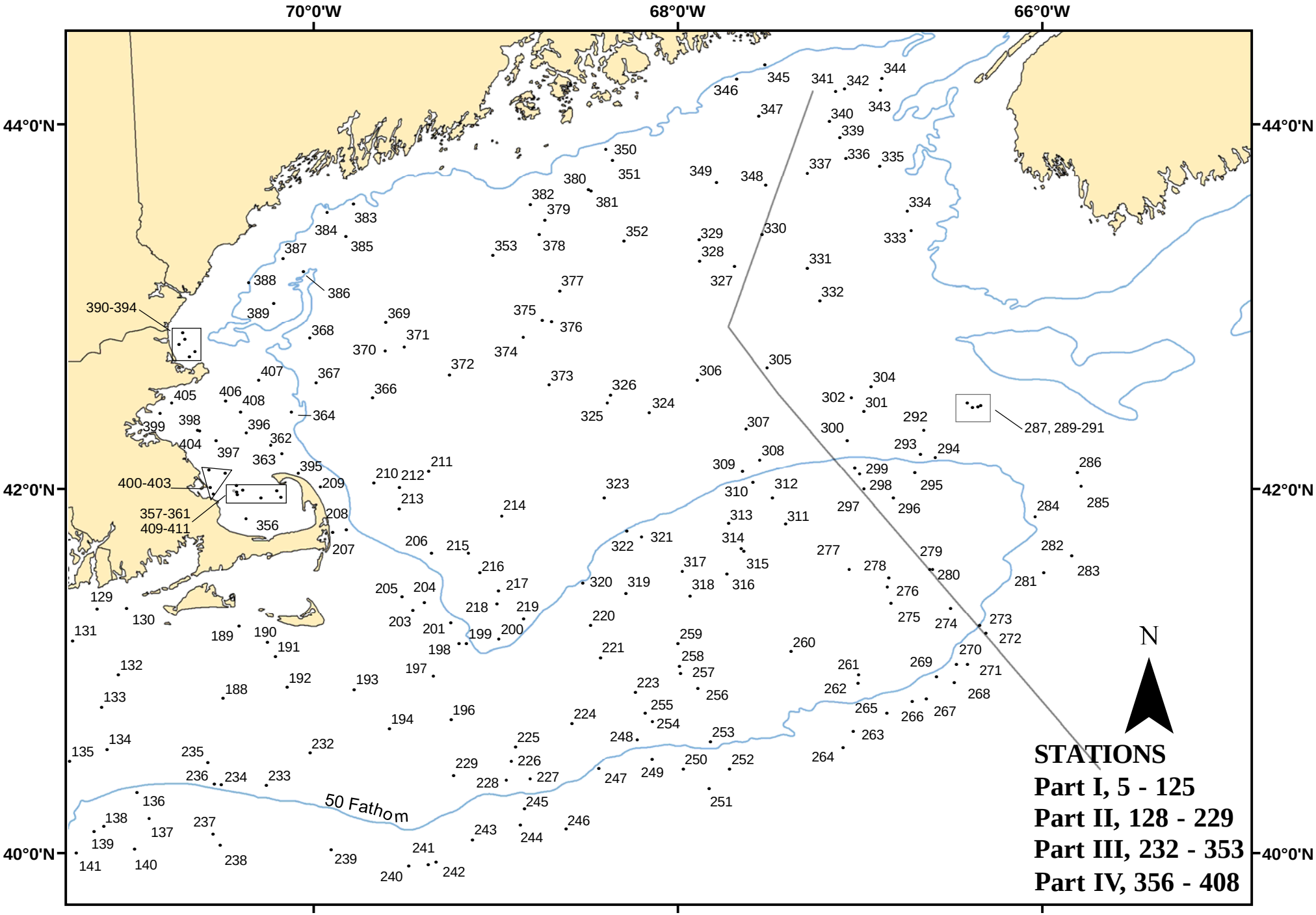


Figure 2. Trawl hauls made from NOAA FSV *Henry B. Bigelow* (12-04), during NOAA Fisheries Service, Northeast Fisheries Science Center Autumn Bottom Trawl Survey, 06 September - 11 November 2012

NOAA Fisheries Service AUTUMN BOTTOM SURVEY
2012 TRAWL STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0005	Sep-07	0102	3833.8	7316.3	X26503.2	Y42555.4	024	75.5	55.2
0006	Sep-07	0334	3828.9	7318.8	X26514.4	Y42506.0	036	165.7	48.6
0007	Sep-07	0602	3823.8	7327.5	X26560.6	Y42448.1	061	65.6	57.6
0008	Sep-07	0818	3823.3	7326.1	X26552.5	Y42444.1	050	126.9	51.5
0009	Sep-07	1140	3831.0	7352.2	X26708.8	Y42502.8	220	31.2	47.9
0010	Sep-07	1411	3817.1	7343.4	X26643.7	Y42367.4	206	65.6	56.6
0011	Sep-07	1537	3815.6	7342.5	X26637.3	Y42352.9	169	67.8	56.6
0013	Sep-07	1937	3759.6	7354.9	X26688.6	Y42175.4	044	120.8	50.3
0014	Sep-07	2215	3808.0	7413.6	X26797.7	Y42242.0	211	26.2	50.3
0015	Sep-07	2341	3803.2	7419.1	X26820.3	Y42184.9	236	30.6	51.2
0016	Sep-08	0055	3800.5	7419.7	X26819.3	Y42155.1	033	31.7	51.7
0017	Sep-08	0218	3800.2	7414.0	X26789.2	Y42159.2	231	38.8	56.0
0018	Sep-08	0642	3752.5	7403.7	X26726.7	Y42091.2	110	132.3	
0019	Sep-08	0850	3748.8	7413.0	X26770.0	Y42039.5	202	58.5	56.8
0020	Sep-08	1023	3749.1	7420.5	X26808.3	Y42032.7	198	38.3	53.0
0021	Sep-08	1352	3725.1	7434.0	X26844.4	Y41757.9	215	47.6	57.9
0022	Sep-08	1516	3722.1	7430.3	X26822.9	Y41732.4	179	65.1	57.1
0023	Sep-08	1736	3718.8	7429.1	X26813.3	Y41699.8	185	150.4	55.2
0024	Sep-08	1959	3720.2	7439.5	X26863.5	Y41696.4	189	41.0	57.1
0025	Sep-08	2247	3707.9	7436.3	X26833.7	Y41572.5	199	55.2	58.0
0026	Sep-09	0257	3705.0	7441.2	X26852.5	Y41532.0	129	163.5	55.4
0027	Sep-09	0447	3700.7	7438.2	X26833.9	Y41492.6	120	72.7	58.6
0028	Sep-09	0604	3659.6	7437.6	X26829.9	Y41482.3	183	79.8	58.6
0029	Sep-09	0910	3645.9	7439.1	X26821.4	Y41337.0	173	172.8	54.5
0030	Sep-09	1247	3625.0	7457.8	X26877.0	Y41077.9	203	26.2	54.9
0031	Sep-09	1548	3624.9	7526.5	X26993.1	Y41003.6	350	13.1	64.6
0032	Sep-09	1718	3624.7	7529.3	X27003.9	Y40994.3	017	17.0	64.0
0033	Sep-09	1947	3637.2	7540.8	X27067.9	Y41103.1	063	9.3	67.8
0034	Sep-09	2145	3642.4	7529.0	X27028.1	Y41187.9	019	15.3	64.5
0035	Sep-10	0034	3659.5	7513.8	X26989.1	Y41407.8	064	20.8	56.1
0036	Sep-10	0236	3658.3	7527.2	X27044.7	Y41366.9	249	14.8	59.0
0037	Sep-10	0401	3655.8	7529.7	X27051.3	Y41333.9	026	13.7	61.1
0038	Sep-10	0554	3652.1	7538.4	X27081.9	Y41274.6	352	10.9	66.2
0039	Sep-10	0756	3700.2	7539.8	X27101.3	Y41363.4	012	12.0	65.1
0042	Sep-12	1939	3619.1	7540.0	X27038.2	Y40906.7	177	12.6	71.6
0043	Sep-12	2103	3614.4	7539.6	X27030.3	Y40857.4	185	13.1	69.4
0044	Sep-12	2307	3600.5	7535.5	X26996.3	Y40720.6	178	12.6	75.3
0045	Sep-13	0051	3603.6	7527.2	X26968.3	Y40776.9	191	13.7	65.9
0046	Sep-13	0252	3551.0	7519.8	X26925.4	Y40670.1	096	17.0	71.8
0047	Sep-13	0403	3550.5	7514.4	X26904.8	Y40682.0	354	19.1	66.1
0048	Sep-13	0538	3543.5	7517.4	X26908.3	Y40603.1		18.6	70.7
0049	Sep-13	0716	3543.4	7523.8	X26931.9	Y40582.3	359	15.3	74.7
0050	Sep-13	0951	3528.0	7518.2	X26895.3	Y40452.2	181	14.2	75.2
0051	Sep-13	1118	3524.1	7522.4	X26906.5	Y40400.8	183	12.6	76.0
0053	Sep-13	1327	3511.0	7513.9	X26863.7	Y40312.3	227	13.7	80.8
0054	Sep-13	1451	3507.6	7518.5	X26876.8	Y40265.2	233	16.4	80.3
0055	Sep-13	1707	3505.0	7516.9	X26868.8	Y40248.4	223	37.7	79.6

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0056	Sep-13	2053	3456.7	7545.9	X26960.0	Y40060.9	265	15.3	77.6
0057	Sep-13	2200	3456.4	7547.7	X26965.8	Y40051.0	213	14.8	78.7
0058	Sep-14	0024	3442.0	7605.9	X27010.7	Y39849.0	215	19.1	
0059	Sep-14	0119	3441.5	7606.1	X27010.6	Y39843.9	024	19.1	79.9
0060	Sep-14	0450	3424.4	7549.3	X26939.5	Y39784.2	031	124.1	54.3
0061	Sep-14	0659	3427.3	7548.3	X26938.9	Y39810.6	032	97.3	57.9
0062	Sep-14	0828	3431.2	7546.5	X26936.7	Y39848.3	030	76.0	60.7
0063	Sep-14	1226	3443.1	7531.9	X26900.1	Y40005.2	034	158.6	52.4
0064	Sep-14	1405	3445.6	7533.1	X26906.4	Y40020.2	043	72.2	59.6
0065	Sep-14	1538	3453.6	7531.6	X26908.6	Y40092.7	035	32.3	70.0
0066	Sep-14	1716	3454.9	7526.5	X26892.5	Y40124.4	050	49.8	65.5
0067	Sep-14	1851	3454.8	7523.8	X26883.4	Y40134.5	035	72.7	63.0
0068	Sep-14	2058	3453.2	7521.7	X26874.9	Y40129.9	030	141.6	54.2
0069	Sep-15	0145	3538.5	7455.6	X26822.1	Y40627.2	317	30.1	80.1
0070	Sep-15	0429	3541.5	7448.8	X26799.2	Y40676.8	143	108.8	47.6
0071	Sep-15	0659	3550.3	7502.5	X26859.2	Y40717.2	002	24.1	66.3
0072	Sep-15	0952	3557.8	7447.7	X26809.2	Y40834.3	203	167.3	
0073	Sep-15	1235	3603.3	7448.5	X26817.5	Y40886.0	185	72.2	57.8
0074	Sep-15	1423	3608.9	7451.2	X26833.8	Y40932.9	002	49.8	57.6
0075	Sep-15	1543	3610.8	7447.7	X26821.3	Y40961.7	358	75.5	58.1
0076	Sep-15	1759	3612.8	7446.3	X26817.7	Y40985.4	028	130.7	48.0
0077	Sep-15	2007	3616.3	7447.6	X26826.3	Y41015.9	352	64.5	58.2
0078	Sep-15	2145	3617.6	7452.0	X26845.4	Y41017.2	011	43.2	52.8
0079	Sep-16	0347	3712.2	7533.6	X27095.1	Y41510.5	027	11.5	72.4
0080	Sep-16	0453	3716.7	7533.8	X27103.9	Y41561.1	019	10.9	71.5
0081	Sep-16	0723	3727.9	7511.9	X27025.3	Y41724.0	034	17.0	58.5
0082	Sep-16	0915	3731.0	7524.6	X27088.6	Y41738.6	020	14.2	70.6
0083	Sep-16	1023	3732.6	7523.9	X27088.8	Y41758.4	090	12.0	71.9
0084	Sep-16	1227	3733.0	7521.2	X27076.9	Y41766.9	042	13.1	71.2
0085	Sep-16	1356	3739.2	7520.6	X27085.9	Y41838.4	032	9.3	72.6
0086	Sep-16	1659	3745.8	7503.7	X27017.5	Y41937.1	041	17.0	61.9
0087	Sep-16	1857	3758.0	7502.1	X27031.5	Y42074.8	068	12.0	71.8
0088	Sep-16	2134	3808.0	7439.1	X26932.2	Y42213.9	045	18.0	56.2
0089	Sep-16	2253	3807.8	7435.8	X26914.7	Y42215.1	036	20.8	55.5
0090	Sep-17	0014	3813.3	7436.5	X26927.3	Y42274.1	288	22.4	54.1
0091	Sep-17	0221	3810.9	7455.8	X27023.9	Y42227.4	001	12.0	67.7
0092	Sep-17	0331	3815.6	7456.9	X27038.5	Y42278.1	020	8.7	71.3
0094	Sep-17	0545	3828.9	7453.1	X27045.4	Y42431.5	033	13.1	72.5
0095	Sep-17	0733	3832.7	7449.5	X27033.9	Y42476.5	007	15.3	60.9
0096	Sep-17	0916	3844.8	7449.5	X27059.8	Y42612.8	043	10.4	72.2
0097	Sep-17	1033	3850.5	7445.9	X27051.9	Y42678.8	042	9.3	70.1
0098	Sep-17	1308	3845.7	7421.4	X26900.5	Y42640.2	037	23.5	56.4
0099	Sep-17	1455	3841.3	7411.3	X26833.7	Y42598.9	059	24.6	52.3
0100	Sep-17	1701	3849.8	7358.3	X26770.4	Y42695.7	055	25.2	50.3
0101	Sep-17	1917	3901.5	7400.8	X26803.9	Y42818.3	055	21.3	55.6
0102	Sep-17	2044	3904.9	7403.0	X26823.8	Y42852.9	063	21.9	57.3
0103	Sep-17	2251	3907.8	7414.3	X26899.2	Y42880.6	226	13.1	66.4
0104	Sep-18	0058	3904.2	7432.0	X27000.4	Y42835.9	036	9.3	70.7

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0105	Sep-18	0214	3909.9	7427.9	X26988.1	Y42900.0	054	11.5	67.5
0106	Sep-18	0427	3917.1	7411.6	X26901.0	Y42980.7	163	12.6	62.3
0107	Sep-18	0604	3917.6	7408.4	X26881.5	Y42986.6	189	16.4	60.2
0108	Sep-18	0801	3922.4	7359.2	X26831.3	Y43037.5	204	17.0	58.7
0109	Sep-18	1001	3929.2	7404.3	X26878.9	Y43110.3	183	12.6	61.7
0110	Sep-18	1211	3935.8	7347.8	X26780.2	Y43176.2	178	13.1	70.0
0111	Sep-18	1408	3940.0	7400.1	X26873.1	Y43222.6	214	12.0	62.2
0112	Sep-18	1707	4003.6	7358.1	X26913.4	Y43465.8	182	12.6	
0113	Sep-18	2318	4010.1	7351.0	X26877.2	Y43527.2	205	13.7	50.9
0114	Sep-19	0114	4017.3	7341.7	X26824.2	Y43591.7	202	15.3	60.2
0115	Sep-19	0229	4017.1	7338.9	X26802.2	Y43587.3	201	15.3	68.3
0116	Sep-19	0353	4019.7	7343.4	X26842.6	Y43616.6	328	14.8	58.4
0117	Sep-19	0521	4018.4	7348.3	X26877.5	Y43608.3	344	28.4	49.0
0118	Sep-19	0740	4013.4	7353.8	X26906.0	Y43563.2	016	13.1	53.6
0119	Sep-19	0958	4022.8	7334.9	X26784.5	Y43639.4	020	15.3	71.4
0120	Sep-19	1123	4029.7	7329.8	X26760.1	Y43700.0	090	13.1	66.0
0121	Sep-19	1345	4034.8	7310.5	X26615.8	Y43725.5	083	12.6	62.0
0122	Sep-19	1452	4036.0	7303.9	X26564.8	Y43729.3	118	12.6	59.3
0123	Sep-19	1605	4037.1	7257.0	X26509.9	Y43730.7	132	14.8	59.1
0124	Sep-19	1831	4044.5	7232.4	X26317.3	Y43764.3	144	17.0	57.3
0125	Sep-19	2003	4039.4	7229.7	X26286.4	Y43717.1	159	21.3	54.5
0128	Sep-24	1527	4123.5	7122.6	X25780.9	Y43963.9	307	18.6	65.0
0129	Sep-24	1730	4120.4	7111.4	X25671.8	Y43925.4	057	19.1	66.0
0130	Sep-24	1905	4120.6	7101.6	X25584.0	Y43912.7	355	13.7	62.0
0131	Sep-24	2155	4110.0	7119.4	X25720.7	Y43863.4	045	23.0	57.6
0132	Sep-25	0032	4058.8	7104.4	X25574.0	Y43762.5	324	27.9	54.6
0133	Sep-25	0250	4048.2	7109.9	X25618.8	Y43692.0	175	33.9	49.6
0134	Sep-25	0507	4034.3	7108.1	X25611.5	Y43585.6	243	38.8	53.0
0135	Sep-25	0730	4030.3	7120.4	X25710.8	Y43567.1	072	38.8	52.6
0136	Sep-25	1025	4019.2	7058.2	X25558.1	Y43462.3	262	54.7	55.9
0137	Sep-25	1223	4012.0	7054.2	X25543.2	Y43404.5	256	71.6	55.9
0138	Sep-25	1430	4009.1	7109.2	X25650.6	Y43392.7	251	76.0	55.6
0139	Sep-25	1550	4007.3	7112.4	X25675.1	Y43381.0	234	79.3	56.5
0140	Sep-25	1839	4001.4	7059.1	X25595.5	Y43326.5	283	148.2	50.8
0141	Sep-25	2147	4000.3	7118.2	X25725.3	Y43329.2	054	103.3	55.3
0142	Sep-26	0017	4005.3	7131.5	X25813.5	Y43378.7	202	49.8	55.8
0143	Sep-26	0317	3950.7	7148.0	X25941.3	Y43267.6	237	109.4	52.8
0144	Sep-26	0500	3948.0	7156.7	X26003.5	Y43248.8	228	83.7	56.3
0145	Sep-26	0918	3932.0	7206.2	X26074.2	Y43112.8	223	163.5	46.7
0146	Sep-26	1129	3938.1	7207.0	X26078.1	Y43167.3	225	82.6	57.0
0147	Sep-26	1336	3945.0	7208.5	X26087.9	Y43228.7	238	62.3	57.0
0148	Sep-26	1529	3950.6	7210.9	X26104.5	Y43278.4	236	49.8	54.9
0149	Sep-26	1815	3948.1	7224.6	X26202.7	Y43262.9	232	44.3	53.4
0150	Sep-26	2220	3932.4	7226.3	X26211.2	Y43122.4	152	112.6	
0152	Sep-27	0025	3930.3	7228.0	X26222.4	Y43103.5	225	63.4	56.5
0153	Sep-27	0239	3941.0	7233.6	X26264.8	Y43202.7	239	43.2	55.9
0154	Sep-27	0404	3937.5	7239.6	X26305.1	Y43172.5	199	42.1	53.7

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0155	Sep-27	0552	3935.1	7251.0	X26383.4	Y43153.8	216	35.5	48.8
0156	Sep-27	0815	3918.2	7257.0	X26412.8	Y42994.4	231	36.1	50.6
0157	Sep-27	1030	3908.6	7247.4	X26345.2	Y42903.5	200	61.8	57.1
0158	Sep-27	1321	3912.7	7230.6	X26237.8	Y42942.3	234	108.3	53.7
0159	Sep-27	1651	3907.9	7254.3	X26389.4	Y42895.9	221	48.1	57.0
0160	Sep-27	1857	3856.8	7254.7	X26386.4	Y42789.1	201	60.1	57.3
0161	Sep-27	2107	3851.6	7255.3	X26387.9	Y42739.4	026	120.3	51.0
0162	Sep-27	2349	3843.8	7303.4	X26432.8	Y42660.4	028	111.5	48.7
0163	Sep-28	0220	3847.2	7321.6	X26545.4	Y42685.5	097	43.2	54.1
0164	Sep-28	0413	3853.7	7312.1	X26492.6	Y42754.3	001	46.5	55.6
0165	Sep-28	0552	3857.4	7322.1	X26557.7	Y42787.3	004	37.2	49.2
0166	Sep-28	0807	3914.6	7325.6	X26598.3	Y42958.6	016	23.5	50.8
0167	Sep-28	1001	3922.8	7329.7	X26636.3	Y43040.9	062	24.6	50.7
0168	Sep-28	1234	3927.8	7305.8	X26479.9	Y43087.7	020	36.6	48.7
0169	Sep-28	1527	3948.7	7308.1	X26519.8	Y43289.8	349	27.9	48.5
0170	Sep-28	1730	3949.2	7306.9	X26511.5	Y43294.0	156	30.1	48.0
0171	Sep-28	2055	4008.7	7242.4	X26350.3	Y43460.6	126	31.7	48.1
0172	Sep-28	2302	4013.3	7228.5	X26246.3	Y43489.6	110	33.4	
0173	Sep-28	2357	4012.9	7227.5	X26238.2	Y43485.8	262	33.9	47.9
0174	Sep-29	0120	4015.8	7228.5	X26248.9	Y43512.3	293	31.2	48.7
0175	Sep-29	0331	4024.6	7239.3	X26344.3	Y43599.4	010	25.7	52.1
0176	Sep-29	0711	4033.3	7159.8	X26030.2	Y43632.1	059	32.3	49.7
0177	Sep-29	0928	4043.7	7143.1	X25897.9	Y43696.2	019	35.0	50.7
0178	Sep-29	1108	4042.9	7150.8	X25963.0	Y43699.2	271	29.5	49.9
0179	Sep-29	1346	4039.6	7220.2	X26206.6	Y43707.4	264	24.1	52.8
0180	Sep-29	1517	4044.1	7226.9	X26270.2	Y43753.4	335	19.1	60.0
0181	Sep-29	1655	4050.5	7220.5	X26226.2	Y43798.4	078	13.1	65.9
0182	Sep-29	1813	4053.9	7212.5	X26162.7	Y43814.9	057	13.1	65.6
0183	Sep-29	1914	4055.1	7208.9	X26133.5	Y43819.8	081	11.5	65.6
0184	Sep-29	2115	4059.8	7153.0	X26001.8	Y43834.3	236	12.6	
0185	Sep-29	2349	4104.7	7141.4	X25907.5	Y43855.7	037	19.1	59.3
0186	Sep-30	0119	4105.7	7139.8	X25895.5	Y43860.8	067		64.5
0187	Sep-30	0347	4053.8	7125.7	X25756.1	Y43752.7	078	32.3	65.1
0188	Sep-30	0815	4051.0	7029.8	X25291.7	Y43667.4	286	29.5	57.2
0189	Sep-30	1121	4114.8	7024.6	X25235.1	Y43822.8	086	15.9	62.9
0190	Sep-30	1307	4109.6	7015.2	X25146.1	Y43776.8	138	14.8	63.8
0191	Sep-30	1417	4104.8	7012.5	X25131.1	Y43741.6	156	14.8	63.6
0192	Sep-30	1554	4054.5	7008.8	X25136.7	Y43668.6	169	14.8	62.6
0193	Sep-30	1959	4054.0	6946.7	W13977.1	Y43642.5	142	19.1	61.3
0194	Sep-30	2219	4041.0	6935.0	W13964.2	Y43546.5	274	26.8	62.1
0196	Oct-01	0301	4044.0	6914.8	W13849.1	Y43548.8	042	34.4	64.4
0197	Oct-01	0544	4058.2	6920.6	W13823.6	Y43643.9	001	26.2	58.4
0198	Oct-01	0810	4109.1	6912.1	W13734.4	Y43703.2	162	37.7	
0199	Oct-01	1007	4109.1	6909.6	W13721.7	Y43700.9	145	51.9	48.7
0200	Oct-01	1329	4110.6	6859.0	W13661.2	Y43698.6	305	55.8	49.2
0201	Oct-01	1551	4115.9	6914.8	W13719.7	Y43747.3	336	48.1	46.5

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon		Loran TD's	Course	Bottom Depth (FM)	Temp (F)
0203	Oct-01	2103	4120.0	6927.4	W13768.1	Y43786.3	184	18.0	55.7
0204	Oct-01	2348	4122.6	6923.5	W13736.3	Y43797.5	166	22.4	53.5
0205	Oct-02	0236	4124.5	6930.9	W13767.4	Y43818.1	308	19.1	54.8
0206	Oct-02	0522	4138.8	6921.2	W13650.9	Y43891.2	344	95.1	45.6
0207	Oct-02	0835	4146.6	6949.2	W13769.7	Y43974.1	137	42.7	49.6
0208	Oct-02	1233	4145.8	6953.7	W13798.9	Y43975.8	167	12.0	
0209	Oct-02	1510	4158.8	6957.8	W13761.1	Y44057.7	153	16.4	
0210	Oct-02	1907	4202.0	6940.2	W13644.4	Y44050.4	342	116.5	46.8
0211	Oct-02	2149	4205.8	6922.1	W13524.2	Y44045.3	246	117.0	46.8
0212	Oct-03	0017	4200.5	6931.8	W13604.7	Y44029.5	233	120.8	46.9
0213	Oct-03	0240	4153.5	6931.8	W13639.2	Y43990.0	183	110.5	46.9
0214	Oct-03	0600	4151.4	6858.1	W13468.4	Y43933.4	083	88.0	45.7
0215	Oct-03	0925	4136.9	6908.8	W13594.1	Y43864.6	175	92.4	45.3
0216	Oct-03	1120	4132.4	6905.3	W13596.2	Y43834.6	217	89.1	45.2
0217	Oct-03	1322	4126.1	6859.1	W13593.1	Y43790.8	222	82.6	44.9
0218	Oct-03	1454	4122.2	6859.7	W13613.8	Y43768.9	164	83.1	44.9
0219	Oct-03	1706	4117.3	6850.8	W13590.9	Y43730.5	057	59.1	46.9
0220	Oct-03	1958	4115.1	6828.8	W13492.6	Y43696.0	091	30.6	61.9
0221	Oct-04	0005	4104.4	6825.6	W13524.1	Y43631.2	296	26.8	
0223	Oct-04	0402	4053.1	6814.1	W13518.6	Y43555.6	105	28.4	
0224	Oct-04	0729	4042.8	6834.9	W13658.1	Y43510.4	260	33.4	60.9
0225	Oct-04	0951	4035.1	6853.5	W13777.6	Y43476.3	115	37.7	58.3
0226	Oct-04	1141	4030.5	6854.9	W13801.7	Y43448.3	033	41.0	
0227	Oct-04	1348	4024.5	6848.7	W13793.7	Y43406.4	103	46.5	59.6
0228	Oct-04	1539	4023.9	6856.5	W13833.6	Y43407.8	270	45.9	59.2
0229	Oct-04	1727	4025.8	6913.9	W13911.9	Y43431.2	254	43.2	59.0
0232	Oct-11	0228	4032.9	7001.2	X25175.9	Y43514.7	279	34.4	60.4
0233	Oct-11	0718	4022.4	7015.5	X25281.6	Y43452.6	273	45.4	57.9
0234	Oct-11	1004	4022.6	7030.4	X25365.9	Y43465.4	255	46.5	55.8
0235	Oct-11	1234	4029.9	7034.9	X25376.1	Y43521.9	297	39.4	60.5
0236	Oct-11	1431	4022.9	7032.7	X25379.4	Y43469.3	276	47.6	55.6
0237	Oct-11	1714	4006.3	7033.2	X25425.9	Y43347.5	264	72.2	57.0
0238	Oct-11	1940	4002.7	7030.7	X25421.6	Y43319.2	249	129.6	54.1
0239	Oct-11	2325	4001.2	6954.2	W14195.2	Y43288.8	274	81.5	57.2
0240	Oct-12	0307	3955.8	6928.8	W14085.1	Y43239.6	257	138.9	52.3
0241	Oct-12	0525	3956.3	6922.3	W14052.0	Y43240.0	264	146.5	51.2
0242	Oct-12	0729	3957.1	6919.6	W14036.7	Y43244.0	254	146.0	50.7
0243	Oct-12	0951	4004.5	6907.7	W13955.2	Y43288.3	234	83.7	56.0
0244	Oct-12	1226	4009.4	6852.0	W13863.5	Y43312.8	253	83.1	56.4
0245	Oct-12	1436	4013.6	6850.7	W13842.6	Y43338.5	269	64.0	58.2
0246	Oct-12	1805	4008.1	6837.0	W13797.8	Y43296.7	224	103.9	53.4
0247	Oct-13	0547	4028.0	6826.0	W13674.5	Y43414.1	327	52.5	58.5
0248	Oct-13	0827	4037.5	6813.5	W13579.4	Y43463.8	307	48.7	59.2
0249	Oct-13	1023	4031.1	6808.6	W13582.7	Y43422.6	326	61.2	55.5
0250	Oct-13	1244	4027.8	6758.3	W13549.6	Y43397.3	296	71.6	56.3
0251	Oct-13	1508	4021.0	6749.8	W13538.7	Y43353.0	316	117.0	54.6

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon		Loran TD's	Course	Bottom Depth (FM)	Temp (F)
0252	Oct-13	1725	4027.7	6743.0	W13483.4	Y43388.4	333	74.4	56.3
0253	Oct-13	1923	4036.7	6749.3	W13475.1	Y43443.6	352	47.0	56.9
0254	Oct-13	2150	4043.3	6808.4	W13533.1	Y43494.8	002	41.0	57.0
0255	Oct-13	2330	4046.2	6810.8	W13532.2	Y43513.2	001	33.9	57.1
0256	Oct-14	0212	4054.3	6753.5	W13420.2	Y43547.5	359	33.4	60.4
0257	Oct-14	0349	4059.2	6759.2	W13424.8	Y43579.3	359	29.0	
0258	Oct-14	0459	4101.7	6759.4	W13415.1	Y43593.6	180	30.6	61.1
0259	Oct-14	0722	4109.1	6760.0	W13385.1	Y43635.7	240	26.8	62.7
0260	Oct-14	1052	4106.4	6722.7	W13234.8	Y43591.2	317	33.4	60.2
0261	Oct-14	1347	4058.9	6700.6	W13177.6	Y43535.7	352	40.5	55.6
0262	Oct-14	1511	4056.0	6700.7	W13190.3	Y43520.5	175	44.8	55.4
0263	Oct-14	1755	4040.3	6702.3	W13264.1	Y43436.6	271	94.1	53.1
0264	Oct-14	1942	4034.9	6705.6	W13299.5	Y43408.9	217	109.9	48.0
0265	Oct-14	2249	4046.2	6651.2	W13195.0	Y43462.5	245	64.5	56.4
0266	Oct-15	0113	4050.2	6642.8	W13145.9	Y43478.6	228	80.4	55.2
0267	Oct-15	0341	4050.9	6638.2	W13125.2	Y43479.6	231	132.3	45.7
0268	Oct-15	0733	4056.2	6629.1	W13068.0	Y43501.9	216	189.2	
0269	Oct-15	1019	4058.1	6634.9	W13081.6	Y43515.1	223	56.3	55.6
0270	Oct-15	1226	4102.3	6628.4	W13038.5	Y43532.8	215	66.7	54.0
0271	Oct-15	1524	4102.3	6624.6	W13024.8	Y43530.4	338	192.5	
0272	Oct-15	1752	4112.6	6618.7	W12956.7	Y43578.9	217	66.7	53.9
0273	Oct-15	1940	4115.1	6620.7	W12952.9	Y43592.6	198	54.1	51.9
0274	Oct-15	2144	4120.7	6630.3	W12962.4	Y43627.3	130	50.3	52.4
0275	Oct-16	0123	4122.4	6649.9	W13028.9	Y43650.2	343	39.4	57.5
0276	Oct-16	0251	4127.1	6651.0	W13011.2	Y43675.1	338	39.4	59.6
0277	Oct-16	0526	4134.6	6703.6	W13025.1	Y43723.4	196	32.8	62.2
0278	Oct-16	0812	4130.8	6650.5	W12991.5	Y43693.4	139	38.8	60.5
0279	Oct-16	1013	4134.7	6637.0	W12920.9	Y43702.1	130	44.8	
0280	Oct-16	1208	4134.4	6636.0	W12919.0	Y43699.6	123	44.3	58.2
0281	Oct-16	1605	4132.5	6559.6	W12797.6	Y43662.9	179	74.9	55.6
0282	Oct-16	1847	4138.3	6550.6	W12740.0	Y43683.8	189	142.2	
0283	Oct-16	2009	4138.1	6550.4	W12740.2	Y43682.8	221	182.6	
0284	Oct-17	0006	4151.1	6602.3	W12717.3	Y43752.8	123	52.5	53.3
0285	Oct-17	0317	4159.3	6547.2	W12627.0	Y43778.2	321	132.9	
0286	Oct-17	0525	4205.5	6548.5	W12599.8	Y43807.5	351	138.3	
0287	Oct-17	1114	4226.9	6621.2	W12597.5	Y43933.4	005	139.4	
0289	Oct-17	1249	4227.3	6620.5	W12592.5	Y43934.7	342	139.4	48.7
0290	Oct-17	1508	4227.9	6624.8	W12604.3	Y43941.5	314	142.2	
0291	Oct-17	1651	4226.6	6623.0	W12605.0	Y43933.9	296	140.5	
0292	Oct-17	2046	4218.7	6639.1	W12705.2	Y43914.2	246	159.7	47.3
0293	Oct-17	2312	4211.4	6640.2	W12748.0	Y43881.3	263	115.4	48.1
0294	Oct-18	0122	4210.2	6635.2	W12736.0	Y43870.8	271	89.1	50.4
0295	Oct-18	0318	4205.4	6642.1	W12786.2	Y43855.2	335	39.4	57.2
0296	Oct-18	0533	4156.8	6649.1	W12857.4	Y43820.6	035	35.0	60.7
0297	Oct-18	0739	4158.3	6658.7	W12887.4	Y43836.8	152	33.9	60.2
0298	Oct-18	0948	4204.0	6700.2	W12863.6	Y43865.9	257	34.4	59.2
0299	Oct-18	1207	4207.0	6701.8	W12853.9	Y43882.2	273	35.0	56.4
0300	Oct-18	1525	4215.9	6704.3	W12816.6	Y43927.0	245	138.9	47.2

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0301	Oct-18	1852	4225.7	6658.8	W12741.6	Y43967.1	243	198.5	47.2
0302	Oct-18	2130	4230.0	6702.7	W12733.1	Y43991.2	254	183.7	48.0
0304	Oct-19	0012	4233.5	6656.4	W12688.5	Y44000.5	137	163.5	47.8
0305	Oct-19	0434	4239.4	6730.6	W12793.1	Y44067.1	102	109.9	48.3
0306	Oct-19	0728	4235.7	6753.6	W12915.6	Y44078.2	217	122.5	48.0
0307	Oct-19	1126	4218.9	6737.7	W12939.2	Y43978.6	160	138.3	47.7
0308	Oct-19	1329	4209.4	6733.0	W12970.3	Y43926.8	110	102.3	47.8
0309	Oct-19	1525	4205.9	6738.8	W13013.8	Y43915.8	098	95.1	47.8
0310	Oct-19	1713	4202.2	6735.4	W13018.4	Y43893.7	073	36.6	46.7
0311	Oct-19	2052	4148.1	6724.5	W13044.5	Y43811.5	135	27.3	61.3
0312	Oct-19	2247	4156.8	6728.9	W13019.1	Y43859.6	161	26.8	61.6
0313	Oct-20	0145	4148.5	6743.3	W13123.4	Y43832.7	177	19.7	62.4
0314	Oct-20	0424	4140.5	6739.2	W13145.3	Y43786.6	171		
0315	Oct-20	0457	4139.6	6738.5	W13146.6	Y43781.2	045	29.5	62.1
0316	Oct-20	0854	4132.1	6743.9	W13206.5	Y43747.1	161	20.8	62.3
0317	Oct-20	1225	4133.8	6758.5	W13264.1	Y43770.4	158	17.0	62.9
0318	Oct-20	1538	4124.6	6756.0	W13296.3	Y43718.2	336	24.1	63.6
0319	Oct-20	1844	4125.5	6817.1	W13389.7	Y43743.2	246	27.3	
0320	Oct-20	2053	4128.9	6831.4	W13442.5	Y43776.7	187	51.4	47.8
0321	Oct-21	0014	4144.1	6812.0	W13276.1	Y43839.7	257	27.3	61.0
0322	Oct-21	0200	4146.2	6816.9	W13288.8	Y43856.5	257	50.3	48.4
0323	Oct-21	0440	4156.9	6824.3	W13271.0	Y43921.8	208	108.8	46.9
0324	Oct-21	0951	4224.4	6809.1	W13050.7	Y44043.7	263	101.2	47.2
0325	Oct-21	1246	4227.9	6823.2	W13099.5	Y44078.8	261	117.6	
0326	Oct-21	1442	4230.9	6822.3	W13077.7	Y44092.8	253	113.2	47.3
0327	Oct-21	2056	4313.1	6741.4	W12636.4	Y44230.7	188	114.8	47.3
0328	Oct-21	2328	4315.0	6752.9	W12674.6	Y44254.6	181	122.5	47.6
0329	Oct-22	0206	4322.2	6753.1	W12629.3	Y44285.4	269	137.2	47.6
0330	Oct-22	0515	4323.9	6732.3	W12528.7	Y44264.1	225	126.9	48.2
0331	Oct-22	0821	4312.5	6717.4	W12540.0	Y44196.8	309	117.0	49.1
0332	Oct-22	1120	4301.8	6713.3	W12589.8	Y44145.8	323	131.2	49.8
0333	Oct-22	1546	4326.3	6643.2	W12327.4	Y44210.7	220	84.8	53.3
0334	Oct-22	1737	4331.2	6644.6	W12301.6	Y44231.9	279	86.9	52.7
0335	Oct-22	2037	4346.3	6653.6	W12235.6	Y44302.1	352	84.8	51.0
0336	Oct-22	2234	4348.4	6704.7	W12260.9	Y44324.7	246	96.2	48.9
0337	Oct-23	0051	4343.9	6717.4	W12337.9	Y44324.4	259	100.1	
0339	Oct-23	0715	4354.9	6706.7	W12224.8	Y44352.1	336	85.3	48.9
0340	Oct-23	0949	4400.4	6710.2	W12199.5	Y44377.5	351	79.8	
0341	Oct-23	1225	4410.2	6708.1	W12125.1	Y44410.5	347	70.0	50.1
0342	Oct-23	1425	4411.3	6705.1	W12106.8	Y44410.2	350	74.9	51.5
0343	Oct-23	1711	4410.9	6653.3	W12070.2	Y44393.2	344	100.1	49.2
0344	Oct-23	1842	4415.3	6652.8	W12038.2	Y44408.5	026	98.4	49.4
0345	Oct-23	2309	4419.7	6731.4	W12143.2	Y44476.7	051	55.2	52.5
0346	Oct-24	0848	4415.1	6740.7	W12214.0	Y44473.6	066	60.7	51.8
0347	Oct-24	1134	4402.7	6733.5	W12272.8	Y44417.9	192	119.8	49.0
0348	Oct-24	1438	4339.3	6731.1	W12422.8	Y44325.1	205	125.2	48.4
0349	Oct-24	1726	4340.9	6747.3	W12480.1	Y44354.0	234	128.0	48.8

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon		Loran TD's	Course	Bottom Depth (FM)	Temp (F)
0350	Oct-24	2115	4353.1	6823.7	W12564.7	Y44455.7	040	65.6	52.3
0351	Oct-24	2357	4347.9	6821.6	W12590.6	Y44432.1	225	82.6	50.1
0352	Oct-25	0339	4321.5	6817.9	W12748.7	Y44318.5	002	98.4	47.3
0353	Oct-25	0811	4316.9	6901.0	W13000.6	Y44364.9	222	89.1	47.6
0356	Nov-01	1930	4150.5	7022.1	X25407.2	Y44046.2	234	14.8	53.3
0357	Nov-01	2142	4157.0	7017.3	X25422.2	Y44077.8	307	21.9	51.8
0358	Nov-01	2315	4157.3	7010.8	X25386.8	Y44069.2	282	18.0	52.5
0359	Nov-02	0037	4159.5	7012.1	X25409.7	Y44084.2	297	20.8	51.5
0360	Nov-02	0251	4159.7	7023.2	X25477.1	Y44103.1	262	27.3	50.9
0361	Nov-02	0405	4201.0	7025.4	X25500.2	Y44114.5	175	27.3	51.4
0362	Nov-02	0655	4214.2	7014.1	X25524.2	Y44172.1	162	16.4	53.6
0363	Nov-02	0810	4211.9	7010.6	X25488.8	Y44153.0	329	21.9	53.5
0364	Nov-02	1022	4224.6	7007.0	X25558.0	Y44217.5	178	43.7	
0366	Nov-02	1601	4229.9	6940.6	W13502.0	Y44202.5	342	141.6	46.9
0367	Nov-02	1843	4234.9	6959.2	W13584.3	Y44259.3	164	77.6	46.8
0368	Nov-02	2138	4249.2	7001.3	X25691.5	Y44336.1	178	85.3	46.0
0369	Nov-03	0128	4254.7	6936.2	W13336.0	Y44319.9	219	89.1	46.5
0370	Nov-03	0410	4245.5	6936.5	W13390.5	Y44275.6	288	125.2	46.9
0371	Nov-03	0648	4246.9	6930.0	W13345.6	Y44271.9	303	93.0	46.9
0372	Nov-03	0943	4237.5	6915.3	W13316.7	Y44201.6	313	117.6	46.9
0373	Nov-03	1336	4234.3	6842.4	W13159.4	Y44137.0	330	108.8	47.0
0374	Nov-03	1842	4249.4	6850.9	W13115.6	Y44222.8	334	91.9	
0375	Nov-03	2210	4255.2	6844.8	W13048.6	Y44241.2	161	109.4	
0376	Nov-04	0014	4255.1	6841.6	W13033.3	Y44235.7	355	107.2	47.0
0377	Nov-04	0308	4305.2	6839.0	W12958.0	Y44278.2	302	100.6	47.4
0378	Nov-04	0750	4323.9	6845.7	W12873.9	Y44370.8	249	53.0	52.3
0379	Nov-04	1042	4328.6	6843.9	W12833.4	Y44388.2	025	77.6	52.4
0380	Nov-04	1409	4338.4	6828.9	W12691.8	Y44405.3	161	96.8	49.6
0381	Nov-04	1616	4338.7	6829.5	W12692.1	Y44407.7	153	94.6	50.1
0382	Nov-04	1918	4333.7	6848.8	W12825.5	Y44417.1	221	75.5	51.4
0383	Nov-05	0618	4333.8	6946.9	W13156.8	Y44516.4	019	60.1	52.1
0384	Nov-05	0912	4330.8	6955.5	W13229.7	Y44518.7	059	61.8	53.3
0385	Nov-05	1155	4323.0	6949.4	W13241.5	Y44474.2	225	77.6	51.6
0386	Nov-05	1426	4310.9	7003.4	X25833.3	Y44444.4	358	68.9	45.7
0387	Nov-05	1635	4316.0	7010.1	X25894.9	Y44480.4	193	68.9	50.9
0388	Nov-05	2013	4307.9	7021.4	X25904.7	Y44464.0	175	56.9	51.1
0389	Nov-05	2216	4301.1	7013.1	X25821.7	Y44415.8	307	85.8	45.4
0390	Nov-06	0337	4251.4	7043.2	X25930.3	Y44424.7	048	23.5	54.1
0391	Nov-06	0559	4249.2	7042.5	X25912.9	Y44411.8	338	24.1	
0392	Nov-06	0755	4247.5	7044.4	X25914.9	Y44407.0	342	17.5	54.2
0393	Nov-06	1034	4243.5	7041.0	X25869.9	Y44379.6	145	18.0	54.0
0394	Nov-06	1212	4245.1	7039.2	X25868.5	Y44384.4	138	31.2	54.0
0395	Nov-06	1909	4204.4	7005.1	X25407.3	Y44101.3	302	12.0	52.3
0396	Nov-06	2215	4217.7	7022.2	X25593.5	Y44205.3	167	47.6	48.8
0397	Nov-07	0011	4215.8	7032.2	X25641.5	Y44211.7	134	35.0	49.3
0398	Nov-07	0202	4219.5	7038.3	X25704.7	Y44243.9	135	33.4	49.6
0399	Nov-07	0447	4224.2	7050.2	X25812.7	Y44291.8	064	19.1	52.8

NOAA Fisheries Service AUTUMN BOTTOM TRAWL SURVEY
2012 STATION INFORMATION

Station*	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0400	Nov-09	1120	4205.1	7029.1	X25551.4	Y44144.6	008	25.2	52.1
0401	Nov-09	1436	4200.6	7034.1	X25555.1	Y44126.1	350	14.8	
0402	Nov-09	1749	4158.2	7032.9	X25530.8	Y44109.6	358	15.9	51.4
0403	Nov-09	1959	4206.4	7034.5	X25594.8	Y44161.0	050	15.3	51.5
0404	Nov-09	2248	4218.3	7037.7	X25692.7	Y44235.8	313	30.6	51.7
0405	Nov-10	0326	4227.8	7046.7	X25810.7	Y44305.6	227	24.6	
0406	Nov-10	0608	4229.0	7029.0	X25707.4	Y44279.8	318	48.1	51.8
0407	Nov-10	0836	4235.6	7018.0	X25688.4	Y44295.9	337	38.3	50.8
0408	Nov-10	1055	4225.4	7024.0	X25655.3	Y44251.5	280	23.5	52.2

* Missing sequential numbers indicate either a test tow or an aborted tow

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY
2012 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY

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	TOTAL OTHER [1]	TOTAL ALL
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	12	53	83
6	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5	0	95	28	133
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	48	72	216
8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	31	10	6	50
9	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	558	586
10	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	4	15	64
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	6	12	69
12 [2]	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
13	0	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	21	13	41
14	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	26	1	8	1	257	295
15	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	0	8	0	156	250
16	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	113	0	9	0	236	364
17	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	111	0	16	0	157	287
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	16	16	16	54
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	2	13	57
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	260	295
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	108	1	9	129
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	44	17	11	73
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	25	25	55
24	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	30	2	285	319
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	16	14	29	63
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	8	64	80
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	26	107	160
28	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	38	85	137
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	24	96	122
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	2	15	88
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	214	1	149	299	0	0	18	0	18	700
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	56	3	268	243	14	0	3	0	92	680
33	0	0	0	0	0	0	0	0	0	0	0	0	1	1	19	0	18	1	63	5	0	0	2	0	68	178
34	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	108	7	168	170	0	0	3	0	338	797
35	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	5	1	2	0	0	8	0	96	118
36	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	3	2	0	1	0	0	14	0	107	132
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	2	0	5	0	0	13	0	148	185
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	137	1	75	27	2	0	5	0	239	492
39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	9	62	1	222	111	7	0	4	0	149	568
42	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7	8	39	1	70	166	3	0	4	0	112	412
43	0	0	0	0	0	0	0	0	0	0	0	0	2	13	1	7	87	1	101	358	1	0	2	0	172	745

NOAA FISHERIES SERVICE-NEFSC AUTUMN BOTTOM TRAWL SURVEY
2012 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY

	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	TOTAL OTHER [1]	TOTAL ALL
44	0	0	0	0	0	0	0	0	0	0	0	0	2	12	4	1	77	1	47	498	0	0	2	0	139	783
45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	11	106	0	87	425	1	0	5	0	282	919
46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	93	0	77	159	0	0	13	0	55	401
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	213	1	7	25	1	0	26	0	36	310
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	22	0	208	313	2	0	6	0	272	827
49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	7	58	1	97	536	14	0	8	0	318	1050
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	37	0	43	35	14	0	6	0	57	193
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	14	4	0	0	1	0	33	95
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	688	690
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	5	0	39	46
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	0	0	5	0	29	45
58 [2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	1	6	0	0	1	0	22	89
59	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	12	0	0	3	0	0	2	0	46	64
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	11	23	47
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	3	1	45
62	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
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	9	1	12	27
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128	128
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	57
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	10	12
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	4	22	67
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	24	43
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	926	490	2	0	1	1	420	1847
70	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	37	44	88
71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	60	1	50	10	1	0	16	3	47	189
72	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	17	26	18	85
73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	5	3	83
74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0	16	70
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	4	65	4	24	157
76	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	306	38	358
77	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	54	84	159
78	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	36	1	43	82
79	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	50	55	0	184	184	0	0	4	0	481	962
80	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	1	0	45	122	0	0	7	0	2065	2248
81	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	24	0	2	0	0	22	0	307	359
82	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	40	2	0	225	85	3	0	9	0	649	1017

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
83	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	1	0	145	129	0	0	9	0	3218	3515
84	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	37	57	8	201	127	5	0	8	0	756	1211
85	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	7	0	42	53
86	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	15	0	0	0	8	0	139	163
87	0	0	0	0	0	0	0	0	0	0	0	0	1	6	3	13	0	0	195	230	0	0	5	0	181	634
88	0	0	0	0	0	0	0	0	0	0	0	0	20	1	0	0	0	2	0	2	0	0	20	0	140	185
89	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	4	0	0	0	0	28	0	104	147
90	0	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	10	0	0	0	0	23	0	431	474
91	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2	30	0	2	118	730	2	0	7	0	486	1383
92	0	0	0	0	0	0	0	0	0	0	0	0	4	1	3	1	0	1	20	11	0	0	8	0	140	189
94	0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	684	0	0	269	641	8	0	2	0	1741	3359
95	0	0	0	0	0	0	0	0	0	0	0	0	1	14	3	0	0	20	1	0	0	0	49	0	602	690
96	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1	0	4	0	0	0	0	0	4	0	218	242
97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3	0	0	0	0	5	0	51	61
98	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	1	0	0	0	3	48	0	43	100
99	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	41	0	57	99
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	81	0	83	166
101	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	1	0	0	0	0	14	0	156	197
102	0	0	0	0	0	0	0	0	0	0	0	0	13	4	0	0	0	21	0	0	0	1	12	0	311	362
103	0	0	0	0	0	0	0	0	0	0	0	0	11	6	0	0	0	7	0	13	0	0	4	0	180	221
104	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	8	39	3	62	94	0	0	3	0	176	395
105	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	5	5	22	227	254	0	0	8	0	572	1100
106	0	0	0	0	0	0	0	0	0	0	0	0	13	14	0	5	0	14	70	151	0	0	5	0	419	691
107	0	0	0	0	0	0	0	0	0	0	0	0	6	34	7	0	0	1	1	3	0	0	5	0	341	398
108	0	0	0	0	0	0	0	0	0	1	0	0	5	2	1	0	3	5	0	0	0	0	14	0	119	150
109	0	0	0	0	0	0	0	0	0	0	0	0	0	5	18	2	0	4	179	48	0	0	2	0	46	304
110	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	1	4	3	0	0	1	0	336	349
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	51	52
112	0	0	0	0	0	0	0	0	0	0	0	0	4	8	0	0	0	1	0	0	0	3	6	0	88	110
113	0	0	0	0	1	0	0	0	0	0	0	0	54	35	0	0	0	3	0	0	0	1	1	0	325	420
114	0	0	0	0	0	0	0	0	0	0	0	0	2	19	0	0	0	2	0	0	0	0	7	0	102	132
115	0	0	0	0	0	0	0	0	0	0	0	0	5	67	0	0	1	9	0	0	0	0	12	0	215	309
116	0	0	0	0	0	0	0	0	0	0	0	0	5	30	0	0	0	1	0	0	0	0	7	0	135	178
117	0	0	0	0	466	0	1	3	0	48	0	0	1	1	0	0	0	0	0	0	42	14	7	0	470	1053
118	0	0	0	0	2	0	0	0	0	0	0	0	2	22	0	0	0	8	0	0	2	1	15	0	231	283
119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	358	361
120	0	0	0	0	0	0	0	0	0	0	0	0	0	22	10	3	17	3 1	236	2	5	0	5	0	42	1345
121	0	0	0	0	0	0	0	0	0	0	0	0	7	17	2	19	13	2	199	0	2	0	2	0	216	479

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
122	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	10	7	5	117	0	1	0	2	0	247	394
123	0	0	0	0	1	0	0	0	0	0	0	0	17	8	23	2	25	4	54	0	4	0	4	0	456	598
124	0	0	0	0	2	0	0	16	0	0	0	0	22	128	0	0	6	6	43	0	2	5	1	0	811	1042
125	0	0	0	0	29	0	7	34	0	6	0	0	28	48	0	0	2	0	0	0	1	0	1	0	807	963
128	0	0	0	0	0	0	0	0	0	1	0	0	0	47	6	0	47	0	0	0	315	15	135	0	142	708
129	0	0	0	0	13	0	0	0	0	3	0	0	1	29	14	0	6	3	0	0	41	1	44	0	104	259
130	0	0	0	0	0	0	0	0	0	1	0	0	3	30	9	0	571	4	0	0	6	1	16	0	228	869
131	13	0	0	0	178	0	22	115	0	173	0	0	8	37	0	0	479	6	0	0	14	23	1	0	712	1781
132	0	0	0	0	24	0	0	2867	22	152	0	0	3	51	0	0	15	3	0	0	8	0	1	0	1233	4379
133	0	0	0	0	272	0	87	81	142	6	0	0	0	4	0	0	0	0	0	0	2	0	26	0	770	1390
134	0	0	0	0	76	0	24	63	1	0	0	1	0	0	0	0	0	0	0	0	43	1	10	0	229	448
135	0	0	0	0	19	0	12	54	1	0	0	0	0	2	10	0	0	0	0	0	84	1	31	0	106	320
136	0	0	0	0	1	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	123	1	280	0	23	440
137	0	0	0	0	0	0	30	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	157	4	14	215
138	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	114	1	44	174
139	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	194	2	36	240
140	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	3	3	22	72
141	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	18	27
142	0	0	0	0	1	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	72	2	24	0	17	123
143	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	6	45	97
144	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	147	13	34	209
145	0	0	0	0	1	0	50	0	0	0	0	2	0	0	0	0	0	0	0	0	0	44	3	41	57	198
146	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	158	7	32	208
147	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	124	4	52	192
148	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	134	3	19	184
149	0	0	0	0	3	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	71	1	173	263
150 [2]	0	0	0	0	17	0	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	47	123
151 [2]	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
152	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	48	55
153	0	0	0	0	12	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	62	1	207	303
154	0	0	0	0	18	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	41	0	221	296
155	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	177	239
156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	416	448
157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	1	21	91
158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	47	3	22	77
159	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	1	20	55
160	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	26	2	25	60
161	0	0	0	0	1	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	3	1	16	49

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
162	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	3	2	29	53
163	0	0	0	0	9	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	23	1	76	118
164	0	0	0	0	5	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	43	0	91	155
165	0	0	0	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	83	0	463	552
166	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	94	225
167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	55	96
168	0	0	0	0	6	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	55	0	435	500
169	0	0	0	0	9	0	7	935	1	5	0	0	1	0	0	0	1	1	0	0	0	0	83	0	245	1288
170	0	0	0	0	44	0	2	369	3	7	0	0	3	0	0	0	0	1	0	0	0	0	131	0	146	706
171	0	0	0	0	21	0	4	6	9	15	0	0	0	0	0	0	0	0	0	0	0	0	11	0	424	490
172 [2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3086	3086
173	0	0	0	0	9	0	15	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	245	283
174	0	0	0	0	55	0	25	12	11	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	336	451
175	0	0	0	0	10	0	20	544	0	9	0	0	1	3	0	0	1	0	0	0	0	0	22	0	398	1008
176	0	0	0	0	15	0	24	151	21	14	0	0	0	0	0	0	1	0	0	0	7	0	84	0	283	600
177	0	0	0	0	22	0	43	127	6	25	0	0	0	0	0	0	0	0	0	0	3	7	87	0	131	451
178	0	0	0	0	6	0	6	725	8	3	0	0	1	1	0	0	0	0	0	0	1	1	132	0	86	970
179	0	0	0	0	1	0	0	103	0	5	0	0	1	9	0	0	2	0	0	0	0	0	69	0	279	469
180	0	0	0	0	0	0	0	5	0	1	0	0	2	50	0	0	66	18	0	0	1	1	52	0	227	423
181	0	0	0	0	0	0	0	0	0	0	0	0	2	16	3	16	3	7	5	0	5	0	2	0	225	284
182	0	0	0	0	0	0	0	0	0	0	0	0	3	39	2	11	19	1	41	0	1	0	1	0	367	485
183	0	0	0	0	0	0	0	0	0	0	0	0	4	28	5	11	46	2	31	0	2	0	9	0	436	574
184	0	0	0	0	0	0	0	0	0	0	0	0	3	21	3	4	54	56	6	0	1	0	28	0	163	339
185	0	0	0	0	0	0	0	70	0	2	0	0	1	98	0	0	12	12	0	0	0	3	30	0	177	405
186	0	0	0	0	0	0	0	0	0	0	0	0	2	21	0	0	15	9	0	0	0	3	50	0	154	254
187	0	0	0	0	189	0	17	860	46	34	0	0	0	71	0	0	4	0	0	0	9	3	3	0	611	1847
188	0	0	0	0	19	0	48	130	1	20	0	0	3	6	0	0	16	0	0	0	111	1	50	0	249	654
189	0	0	0	0	0	0	0	7	0	0	0	0	0	17	0	0	10	0	0	0	4	1	115	0	59	213
190	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	0	4	0	0	0	1	1	53	0	11	88
191	0	0	0	0	0	0	0	0	0	0	0	0	0	7	10	0	0	0	0	0	1	0	42	0	56	116
192	0	0	0	0	0	0	0	23	0	0	0	0	0	25	0	0	2	0	0	0	0	0	40	0	74	164
193	0	0	0	0	0	0	0	12	0	0	0	0	25	100	9	0	3	0	0	0	0	0	6	0	387	542
194	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	73	0	86	166
195 [2]	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	133	157
196	0	0	0	0	0	0	0	0	11	0	0	0	1	0	5	0	0	0	0	0	0	0	151	0	69	237
197	0	0	0	0	41	0	15	1392	5	636	0	0	1	12	6	0	0	0	0	0	4	29	9	0	1587	3737
198 [2]	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

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
199	153	447	0	1	1	5	22	15482	18	269	1	0	0	0	0	0	0	0	0	0	0	23	0	0	740	17162
200	0	82	0	0	1	0	0	1250	6	241	0	0	0	0	0	0	0	0	0	0	0	5	5	3	451	2044
201	14	56	0	0	0	0	3	2746	2	11	0	0	0	0	0	0	0	0	0	0	0	0	0	2	200	3034
202[2]	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
203	18	0	0	0	0	0	0	14408	0	57	0	0	1	30	97	0	0	0	0	0	0	18	12	0	673	15314
204	0	0	0	0	0	0	0	28373	0	4	0	0	1	10	113	0	0	0	0	0	0	0	0	0	302	28803
205	17	0	0	0	0	0	0	6551	1	54	0	0	0	0	4	0	0	0	0	0	0	47	17	0	499	7190
206	0	0	0	28	374	90	1	522	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	157	1188
207	0	0	0	0	190	0	11	2146	17	22	1	1	0	0	0	0	0	0	0	0	1	0	3	2	312	2706
208	0	0	0	0	0	0	0	95	0	2	0	0	1	0	0	0	0	0	0	0	0	9	7	0	39	153
209[2]	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
210	0	0	0	23	178	79	1	19	0	0	17	2	0	0	0	0	0	0	0	0	0	0	0	0	24	343
211	0	4	0	14	141	123	51	2	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	1	36	387
212	0	8	0	68	117	122	10	9	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	1	99	449
213	0	4	1	68	163	193	33	4	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	74	547
214	15	1	7	63	100	362	15	19	0	0	18	13	0	0	0	0	0	0	0	0	0	1	0	1	142	757
215	0	679	0	28	95	343	16	69	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	57	1290
216	6	209	0	13	89	119	14	11	0	0	15	3	0	0	0	0	0	0	0	0	0	6	0	1	75	561
217	49	435	1	8	15	391	6	69	0	1	3	0	0	0	0	0	0	0	0	0	0	2	1	3	47	1031
218	19	148	0	8	9	531	86	157	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	3	100	1065
219	0	3	0	0	17	1	61	216	2	297	0	0	0	0	0	0	0	0	0	0	0	0	3	1	823	1424
220	0	0	0	0	5	0	0	75	0	0	0	0	29	10	0	0	0	0	0	0	6	3	68	2	333	531
221[2]	0	0	0	0	0	0	0	27	0	9	0	0	0	0	0	0	0	0	0	0	0	0	10	0	474	520
222[2]	0	0	0	0	0	0	0	20	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5	0	123	150
223	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6	12	0	198	217
224	0	0	0	0	3	0	0	11	0	0	0	0	1	7	0	0	0	0	0	0	0	0	64	0	149	235
225	0	0	0	0	2	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	29	0	104	139
226	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	298	2	74	378
227	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	232	2	54	297
228	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	1	28	159
229	0	0	0	0	2	0	10	0	1	1	0	0	0	0	4	0	0	0	0	0	0	0	121	0	109	248
231[2]	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
232	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	102	0	0	0	0	0	167	0	304	577
233	0	0	0	0	19	0	2	0	0	1	0	0	0	0	0	0	2	0	0	0	12	4	70	0	32	142
234	0	0	0	0	11	0	15	0	1	2	0	0	0	0	0	0	0	0	0	0	12	3	67	0	24	135
235	0	0	0	0	1	0	4	0	0	0	0	0	0	3	17	0	0	0	0	0	9	8	112	0	17	171
236	0	0	0	0	10	0	7	0	2	0	0	0	0	0	5	0	0	0	0	0	3	2	83	0	29	141

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
237	0	0	0	0	0	0	26	0	1	0	0	0	0	0	0	0	0	0	0	0	8	2	133	0	27	197
238	0	0	0	0	15	0	81	5	0	0	0	0	0	0	0	0	0	0	0	0	0	16	2	0	35	154
239	0	0	0	0	4	0	47	13	0	0	0	1	0	0	0	0	0	0	0	0	12	6	18	0	72	173
240	0	0	0	0	12	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1	1	80	128
241	0	0	0	0	28	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	69	168	284
242	0	0	0	0	5	0	31	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	8	105	164
243	0	0	0	0	1	0	13	2	0	0	0	0	0	0	0	0	0	0	0	0	3	3	35	1	76	134
244	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	5	14	145
245	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	2	56	228
246	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	31	43
247	0	0	0	0	10	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	12	357	2	98	497
248	0	2	0	0	3	0	5	11	0	0	0	1	0	0	0	0	0	0	0	0	3	0	281	1	35	342
249	0	1	0	0	2	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	1	69	141
250	0	0	0	0	1	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	4	410	3	7	439
251	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	9	27	14	24	82
252	0	0	0	0	65	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	28	3	114	220
253	0	2	0	0	30	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	2	31	5	3	283	374
254	0	0	0	0	16	0	12	17	3	1	0	0	0	0	0	0	0	0	0	0	1	0	21	1	362	434
255	0	0	0	0	2	0	0	10	1	3	0	0	0	0	0	0	0	0	0	0	0	0	39	1	843	899
256	0	0	0	0	1	0	0	1	0	5	0	0	2	12	0	0	0	0	0	0	0	0	63	0	511	595
257	0	0	0	0	0	0	0	0	0	0	0	0	10	4	0	0	0	0	0	0	0	0	6	0	182	202
258	0	0	0	0	0	0	9	0	0	0	0	0	18	10	0	0	0	0	0	0	0	4	32	0	173	246
259	0	0	0	0	0	0	0	3	0	0	0	0	2	2	0	0	0	0	0	0	0	0	27	0	229	263
260	0	0	0	0	1	0	0	291	0	4	0	0	1	6	0	0	0	0	0	0	0	6	197	0	39	545
261	0	2	0	0	2	0	1	26	16	0	0	0	0	0	0	0	0	0	0	0	0	13	123	1	34	218
262	0	22	0	1	15	0	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	5	91	1	153	457
263	0	0	0	0	51	0	2	68	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	54	182
264	0	0	0	0	145	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	57	220
265	0	0	0	0	19	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	36	242
266	0	0	0	0	240	0	0	1848	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	133	2223
267	0	0	0	0	72	0	0	1328	0	0	0	0	0	0	0	0	0	0	0	0	0	71	0	4	77	1552
268 [2]	0	0	0	24	1	9	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	174	0	8	84	305
269	0	0	0	0	7	0	0	2180	0	0	0	0	0	0	0	0	0	0	0	0	0	54	31	2	24	2298
270	0	0	0	0	70	0	10	1723	0	0	0	0	0	0	0	0	0	0	0	0	13	6	0	0	41	1863
271	0	0	0	9	3	3	43	1	0	0	1	7	0	0	0	0	0	0	0	0	0	36	0	8	70	181
272	0	30	0	0	187	0	38	2353	0	0	0	0	0	0	0	0	0	0	0	0	1	7	0	2	167	2785
273	0	18	0	0	77	0	0	2671	0	0	0	0	0	0	0	0	0	0	0	0	1	17	0	0	105	2889
274	0	51	0	0	130	0	11	35	274	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	390	892

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
275	0	5	0	3	28	0	1	88	129	3	0	0	8	4	0	0	0	0	0	0	0	29	3	0	364	665
276	0	2	0	2	24	0	10	44	101	3	0	0	2	0	0	0	0	0	0	0	1	2	25	1	374	591
277	0	0	0	0	1	0	0	29	2	2	0	0	19	0	0	0	0	0	0	0	0	0	19	0	104	176
278	0	1	0	0	4	0	0	92	6	0	0	0	1	0	0	0	0	0	0	0	2	0	102	0	62	270
279	0	3	0	3	2	0	7	119	4	7	0	0	0	0	0	0	0	0	0	0	1	38	13	0	96	293
280	0	0	0	6	4	0	15	164	3	36	0	0	0	0	0	0	0	0	0	0	4	67	150	0	242	691
281	0	94	0	0	5	0	0	981	0	0	0	0	0	0	0	0	0	0	0	0	2	9	63	2	70	1226
282 [2]	0	14	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	26	61
283 [2]	0	0	0	2	0	29	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	76	0	1	53	162
284	7	283	0	0	177	0	8	44	22	2	0	0	0	0	0	0	0	0	0	0	2	22	0	0	329	896
285	27	118	18	5	2	12	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	207
286 [2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110
287 [2]	5	101	47	0	1	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	18	208
289	0	204	134	10	2	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	30	446
290 [2]	0	34	45	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	90
291 [2]	5	67	20	10	1	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	53	169
292	0	291	61	2	17	8	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	5	0	0	94	481
293	0	2283	0	12	171	0	4	0	0	0	2	9	0	0	0	0	0	0	0	0	0	63	0	0	103	2647
294	0	372	1	0	6	0	3	89	0	0	1	0	0	0	0	0	0	0	0	0	0	58	0	2	193	725
295	56	694	4	0	1	0	0	4	1	2	0	0	0	0	0	0	0	0	0	0	0	34	9	0	138	943
296	0	1463	0	0	71	0	0	117	5	0	0	0	3	12	7	0	0	0	0	0	152	11	23	1	206	2071
297	0	1	0	0	4	0	0	74	2	57	0	0	0	7	0	0	0	0	0	0	1	13	49	0	79	287
298	3	62	0	0	144	0	0	265	1	40	0	0	0	0	0	0	0	0	0	0	12	14	129	4	199	873
299	74	5488	2	4	51	0	0	6357	10	32	0	0	0	0	0	0	0	0	0	0	4	36	23	0	1169	13250
300	0	6	0	20	63	0	13	10	0	0	0	0	0	0	0	0	0	0	0	0	0	21	2	0	34	169
301	0	29	0	56	70	0	28	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	0	0	61	252
302	0	21	0	25	157	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	40	268
304	0	0	4	19	42	0	12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13	0	1	22	114
305	14	0	0	36	51	118	13	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	2	43	282
306	0	0	0	19	103	963	18	9	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	49	1164
307	0	33	23	12	32	127	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	136	365
308	38	306	0	6	80	151	12	3	0	0	0	1	0	0	0	0	0	0	0	0	0	7	0	0	56	660
309	33	0	0	12	305	12	19	7	0	0	18	13	0	0	0	0	0	0	0	0	0	12	1	0	138	570
310	0	222	0	0	19	0	0	1	127	6	0	0	0	0	0	0	0	0	0	0	0	54	4	0	363	796
311	0	0	0	0	1	0	0	352	2	57	0	0	12	2	0	0	0	0	0	0	0	0	130	0	437	993
312	0	0	0	0	0	0	0	1692	0	0	0	0	8	0	0	0	0	0	0	0	0	0	165	0	310	2175

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
313	0	0	0	0	1	0	0	490	0	0	0	0	3	0	0	0	0	0	0	0	0	4	10	0	155	663
314	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
315	0	0	0	0	1	0	0	374	0	17	0	0	24	2	0	0	0	0	0	0	0	0	17	0	298	733
316	0	0	0	0	0	0	0	326	0	0	0	0	1	15	27	0	0	0	0	0	0	4	22	0	150	545
317	0	0	0	0	0	0	0	8108	0	3	0	0	1	5	9	0	0	0	0	0	0	0	4	0	415	8545
318	0	0	0	0	0	0	0	116	0	0	0	0	0	2	10	0	0	0	0	0	0	0	32	0	160	320
319	0	0	0	0	0	0	0	49	0	4	0	0	21	2	0	0	0	0	0	0	4	4	27	0	698	809
320	0	2	1	0	16	0	38	3	0	57	0	0	0	0	0	0	0	0	0	0	0	77	0	0	1084	1278
321	0	0	0	0	46	0	0	0	0	72	0	0	4	5	0	0	0	0	0	0	1172	20	139	24	705	2187
322	0	0	0	0	173	0	11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	290	478
323	0	8	0	26	105	48	2	9	0	0	23	2	0	0	0	0	0	0	0	0	0	0	0	1	162	386
324	11	3	3	95	53	407	5	22	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	2	84	692
325	0	0	1	43	71	337	9	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	15	500
326	0	0	10	5	23	387	7	20	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	15	470
327	0	1	0	82	439	23	1	8	0	0	1	2	0	0	0	0	0	0	0	0	0	2	0	1	93	653
328	0	6	0	111	209	42	9	0	0	0	10	0	0	0	0	0	0	0	0	0	0	2	0	0	43	432
329	0	0	0	74	474	21	26	4	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	54	668
330	1	0	19	85	48	17	10	0	0	0	20	3	0	0	0	0	0	0	0	0	0	10	0	4	67	284
331	0	0	0	97	184	113	9	0	0	0	24	2	0	0	0	0	0	0	0	0	0	9	0	2	73	513
332	0	6	13	53	14	391	41	0	0	0	1	21	0	0	0	0	0	0	0	0	0	23	0	0	74	637
333	0	20	0	10	503	1	14	0	0	1	7	11	0	0	0	0	0	0	0	0	3	30	0	1	123	724
334	1	25	0	6	252	17	7	0	0	1	5	49	0	0	0	0	0	0	0	0	1	11	0	0	112	487
335	9	29	1	21	82	18	3	38	0	0	2	3	0	0	0	0	0	0	0	0	1	51	0	1	48	307
336	23	46	6	24	334	78	9	2253	0	0	1	3	0	0	0	0	0	0	0	0	0	21	0	1	100	2899
337 [2]	0	0	0	5	198	9	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	36	274
338 [2]	0	0	0	5	74	11	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8	0	0	21	120
339	11	34	1	8	135	47	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	9	71	323
340	1	3	1	8	337	50	34	0	0	0	33	4	0	0	0	0	0	0	0	0	1	3	0	8	73	556
341	3	0	0	5	176	5	12	0	0	0	4	34	0	0	0	0	0	0	0	0	3	3	0	13	584	842
342	16	193	1	13	268	10	0	3	0	6	10	35	0	0	0	0	0	0	0	0	0	9	0	11	163	738
343	23	62	8	5	268	33	0	4	0	1	0	14	0	0	0	0	0	0	0	0	0	9	0	2	80	509
344	7	46	5	0	594	226	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	106	988
345	0	1	0	3	50	8	0	0	0	10	1	0	0	0	0	0	0	0	0	0	0	66	1	0	23	163
346	0	0	0	5	189	0	3	0	0	23	7	1	0	0	0	0	0	0	0	0	23	67	16	6	126	466
347	1	3	0	129	929	2	18	0	0	2	16	14	0	0	0	0	0	0	0	0	2	7	0	6	40	1169
348	0	1	1	144	1654	50	3	0	0	0	5	1	0	0	0	0	0	0	0	0	0	13	0	2	92	1966
349	0	0	0	100	263	42	11	3	0	0	12	0	0	0	0	0	0	0	0	0	0	7	0	1	63	502
350	0	0	0	11	405	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	1	178	1	2	29	631

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
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	TOTAL OTHER [1]	TOTAL ALL
351	0	0	0	12	1220	0	17	12	0	0	5	6	0	0	0	0	0	0	0	0	0	26	0	1	173	1472
352	0	1	0	23	77	98	55	3	0	0	24	17	0	0	0	0	0	0	0	0	0	0	0	1	54	353
353	0	12	0	22	482	910	48	439	0	0	17	12	0	0	0	0	0	0	0	0	0	0	0	5	110	2057
356	0	0	0	0	72	0	0	0	0	24	0	0	2	5	0	0	3	5	0	0	19	14	11	0	616	771
357	0	0	0	0	217	0	0	0	1	15	0	0	7	7	0	0	1	17	0	0	14	96	29	0	260	664
358	0	0	0	0	126	0	0	0	0	5	0	0	1	2	0	0	1	0	0	0	8	12	7	1	78	241
359	0	0	0	0	475	0	0	0	0	10	0	0	7	4	0	0	0	0	0	0	5	33	4	0	130	668
360	0	0	0	0	520	0	1	8	4	13	0	0	12	2	0	0	0	3	0	0	3	117	5	0	397	1085
361	0	0	0	0	219	0	8	20	5	13	0	0	9	5	0	0	1	0	0	0	3	95	1	0	792	1171
362	7	0	0	0	2	0	0	18	3	24	0	0	1	3	0	0	0	0	0	0	5	8	39	0	334	444
363	12	0	0	0	89	0	0	0	7	15	0	0	2	0	0	0	3	0	0	0	29	67	32	0	190	446
364 [2]	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
365 [2]	5	10	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	80
366	0	0	0	18	298	17	1	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	3	54	424
367	45	0	46	173	71	431	4	398	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	143	1316
368	0	0	0	156	605	594	49	306	0	0	1	3	0	0	0	0	0	0	0	0	0	3	0	1	234	1952
369	0	0	0	51	109	169	35	32	0	0	0	6	0	0	0	0	0	0	0	0	0	5	0	0	112	519
370	0	0	0	15	550	6	1	19	0	0	7	0	0	0	0	0	0	0	0	0	0	2	0	0	180	780
371	6	0	0	74	336	1273	23	65	0	0	3	2	0	0	0	0	0	0	0	0	0	2	0	0	156	1940
372	0	0	0	18	166	176	6	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	2	1	22	415
373	0	0	0	24	64	298	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	76	467
374	0	0	0	21	106	925	18	6	0	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	88	1173
375	0	0	0	40	207	388	2	16	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	23	680
376	0	0	0	30	48	517	13	13	0	0	3	6	0	0	0	0	0	0	0	0	0	0	0	1	85	716
377	0	0	0	12	279	169	35	0	0	0	12	9	0	0	0	0	0	0	0	0	0	0	0	0	217	733
378	8	16	1	1	92	69	0	58	0	1	1	1	0	0	0	0	0	0	0	0	14	39	7	9	155	472
379	5	0	0	4	364	1	12	23	0	0	3	4	0	0	0	0	0	0	0	0	3	20	1	7	94	541
380	0	0	0	9	571	5	13	54	0	0	18	4	0	0	0	0	0	0	0	0	0	37	0	5	67	783
381	0	2	0	8	346	1	32	55	0	0	6	8	0	0	0	0	0	0	0	0	1	39	0	1	104	603
382	0	0	0	11	360	1	20	17	0	0	2	3	0	0	0	0	0	0	0	0	0	57	0	2	39	512
383	1	0	0	7	187	0	1	5	0	0	9	0	2	0	0	0	0	0	0	0	0	141	1	0	143	497
384	0	7	0	5	98	0	4	13	0	0	12	0	0	0	0	0	0	0	0	0	6	46	1	0	98	290
385	2	0	0	8	273	9	19	1366	0	0	1	4	0	0	0	0	0	0	0	0	1	21	0	9	117	1830
386	7	0	11	8	120	98	72	2228	0	0	20	10	0	0	0	0	0	0	0	0	1	1	4	35	296	2911
387	2	0	0	16	130	1	23	77	0	0	13	6	0	0	0	0	0	0	0	0	1	34	0	1	85	389
388	0	0	0	2	94	0	5	50	0	1	24	0	0	0	0	0	0	0	0	0	1	139	0	1	187	504
389	13	0	82	36	1435	330	12	761	0	0	3	12	0	0	0	0	0	0	0	0	0	3	0	0	436	3123
390	2	1	0	1	102	3	0	16	20	40	0	0	1	0	0	0	5	1	0	0	0	261	9	0	159	621

NOAA FISHERIES SERVICE-NEFSC FALL BOTTOM TRAWL SURVEY 2012
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

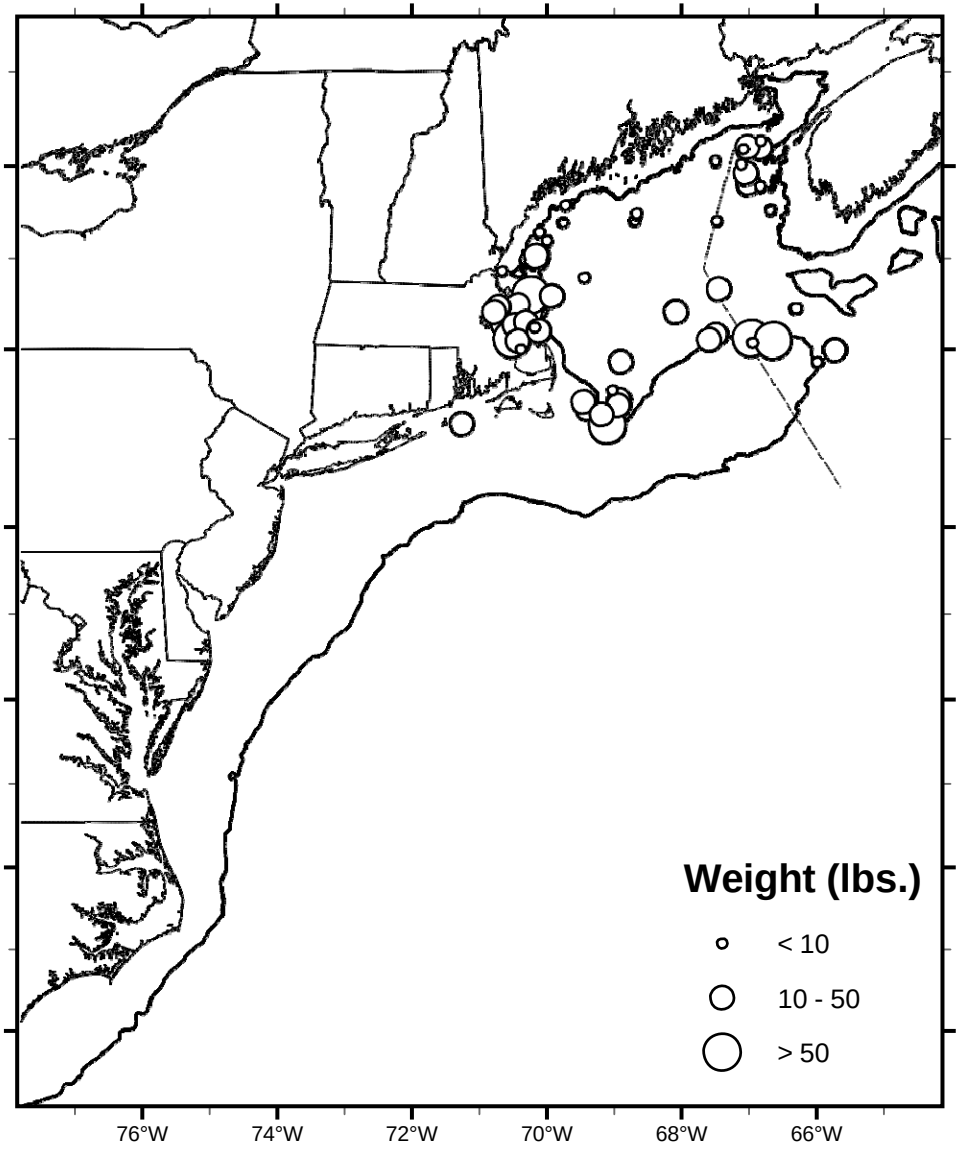
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	WEAKFISH	SCUP	BLACK SEA BASS	SPOT	CROAKER	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER [1]	TOTAL ALL
391[2]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
392	0	0	0	0	1	0	0	0	3	12	0	0	0	0	0	0	0	0	0	0	5	41	34	0	674	770
393	0	0	0	0	1	0	0	0	12	20	0	0	0	0	0	0	0	0	0	0	3	14	33	0	48	131
394	0	0	0	0	6	0	1	153	51	29	1	0	0	0	0	0	1	1	0	0	24	242	36	0	226	771
395	0	0	0	0	150	0	0	11	1	14	0	0	2	0	0	0	0	0	0	0	42	3	37	1	184	445
396	23	0	0	2	393	0	8	50	5	15	70	0	0	0	0	0	0	0	0	0	3	4	0	0	250	823
397	24	0	0	0	76	0	20	14	39	55	19	0	3	0	0	0	0	0	0	0	2	23	0	0	131	406
398	134	0	0	0	258	0	0	0	28	23	1	0	4	0	0	0	0	0	0	0	2	31	0	0	191	672
399	20	0	2	0	70	0	0	0	2	31	0	0	2	0	0	0	0	0	0	0	2	176	15	0	303	623
400	16	0	0	0	62	0	0	4	41	38	0	0	3	0	0	0	2	3	0	0	4	73	54	0	245	545
401[2]	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
402	0	0	0	0	22	0	0	0	2	36	0	0	0	0	0	0	0	0	0	0	6	69	1	0	389	525
403	80	0	2	0	16	0	0	0	20	179	0	0	3	0	0	0	1	0	0	0	6	40	1	0	516	864
404	102	1	0	0	44	0	1	0	154	98	0	0	3	0	0	0	0	2	0	0	10	106	7	0	509	1037
405	33	0	2	0	34	2	0	0	10	46	0	0	2	0	0	0	1	0	0	0	0	275	6	0	280	691
406	35	42	0	1	193	0	12	0	17	30	95	1	4	0	0	0	0	0	0	0	0	25	1	0	89	545
407	50	601	25	0	2	0	0	60	0	14	8	0	0	0	0	0	0	0	0	0	0	4	15	0	54	833
408	93	3	1	0	0	0	9	10	250	25	1	0	7	0	0	0	0	0	0	0	1	5	5	0	315	725
TOTAL	1398	15587	611	2601	26461	12675	2506	123004	1738	3428	779	414	618	1501	551	1029	3261	386	5372	6732	3163	4696	10969	1324	78865	310672

[1] "Total others" in southern areas are primarily comprised of various rays, spot, and Atlantic croaker

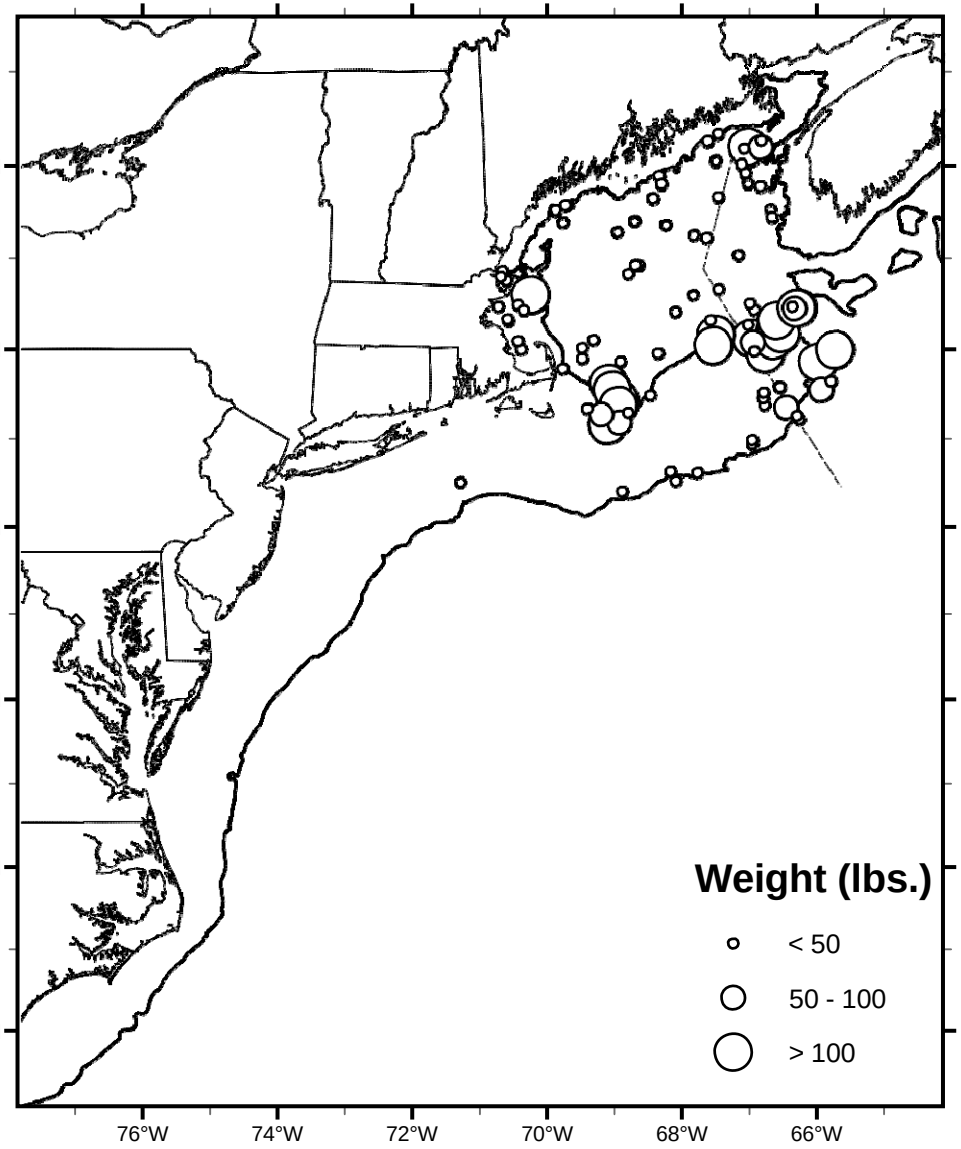
[2] Excluded from stock assessement due to an unacceptable tow evaluation code.

NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

ATLANTIC COD

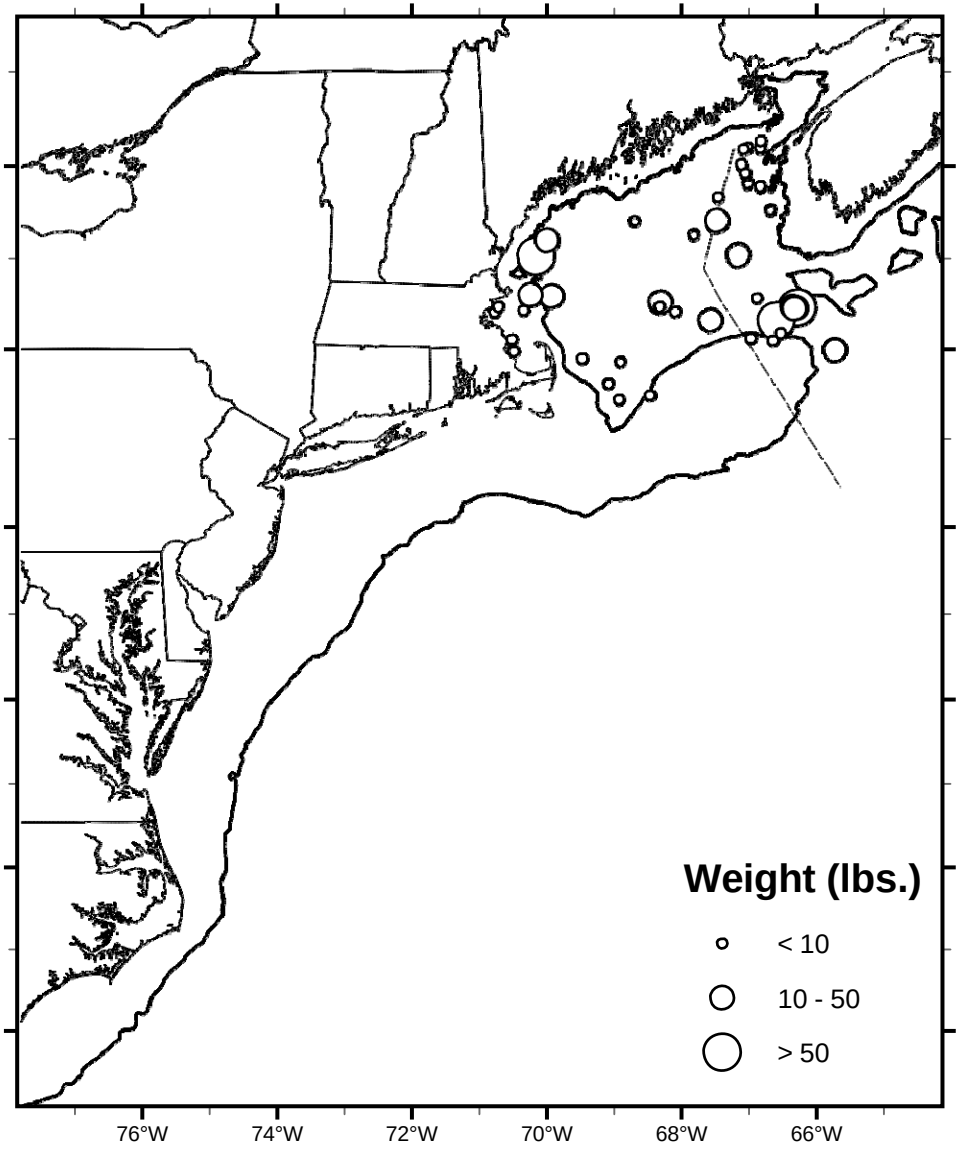


HADDOCK

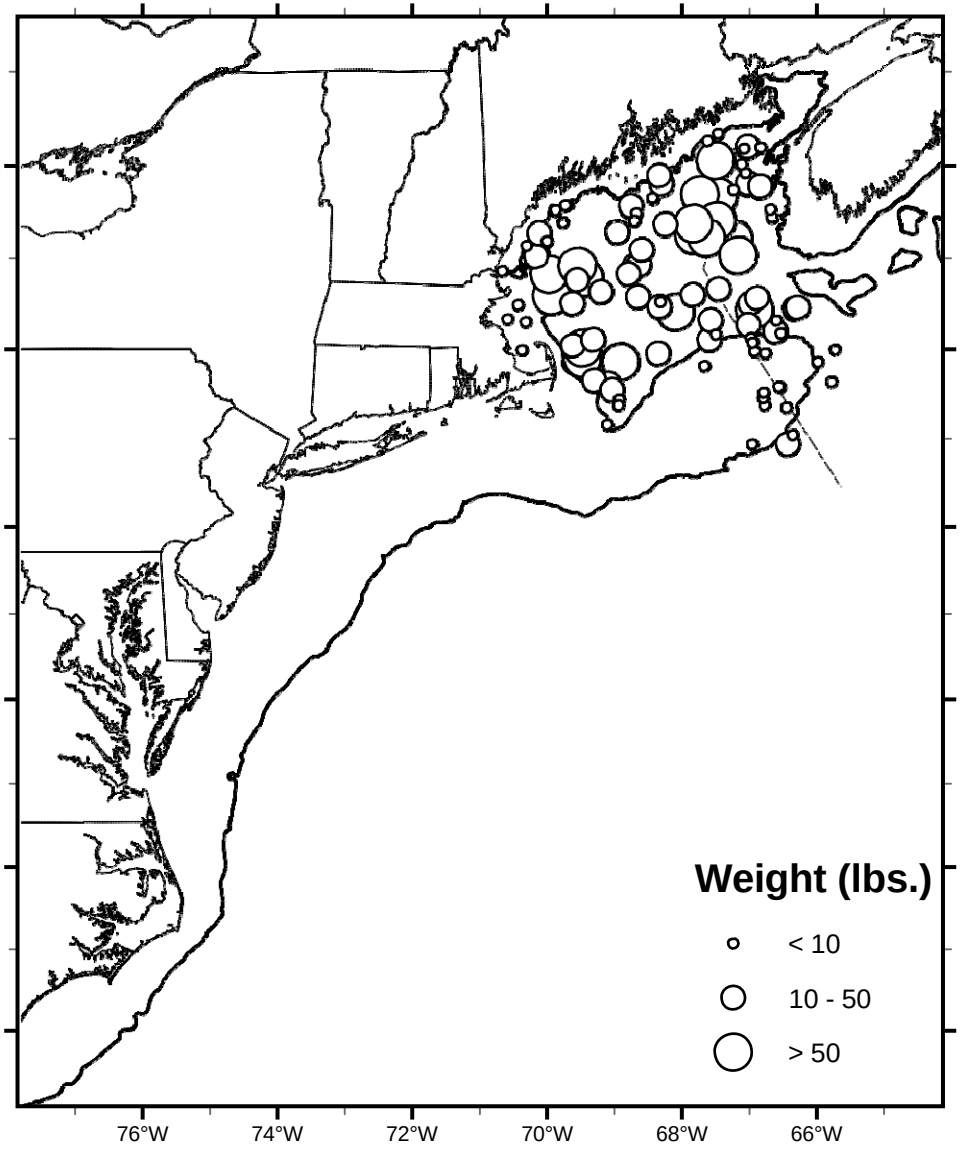


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

POLLOCK

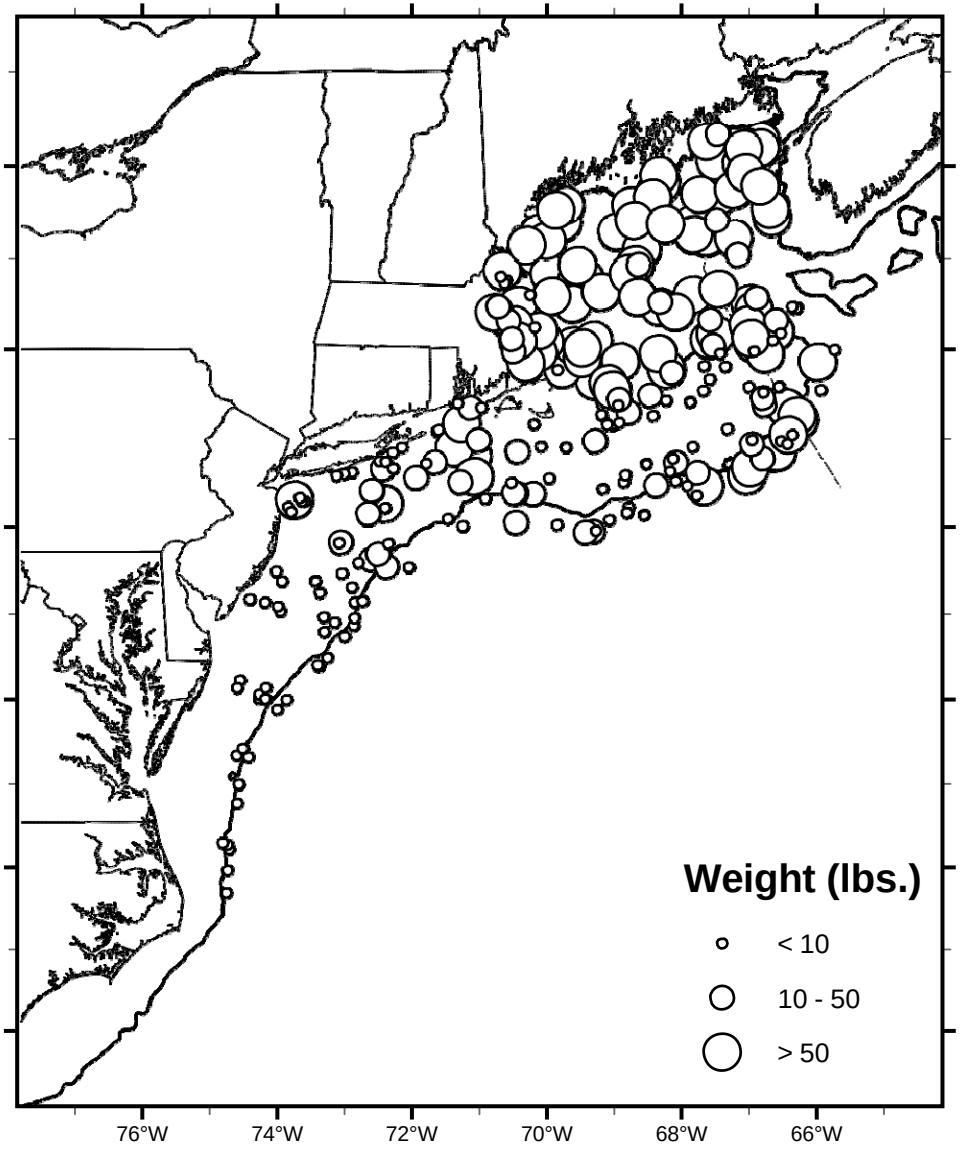


WHITE HAKE

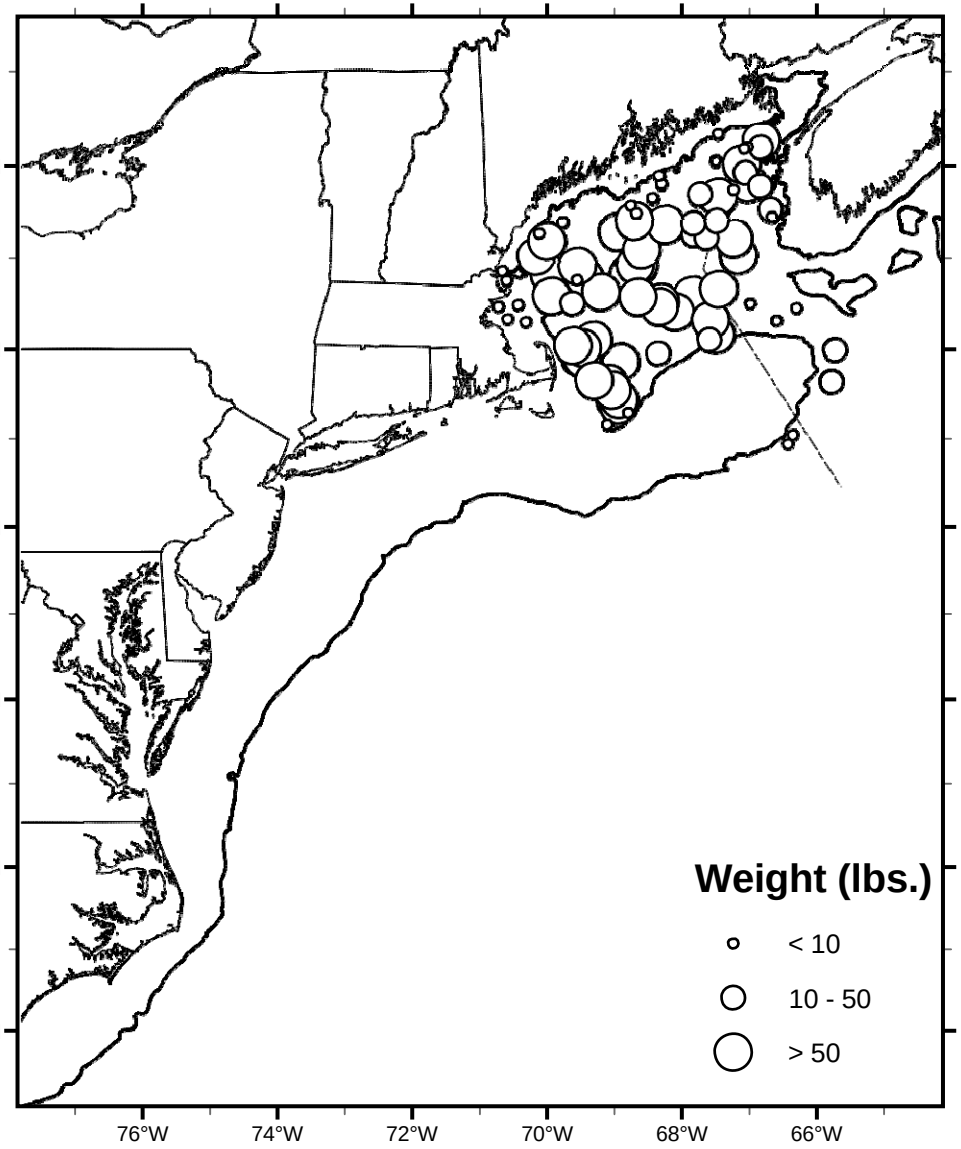


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

SILVER HAKE

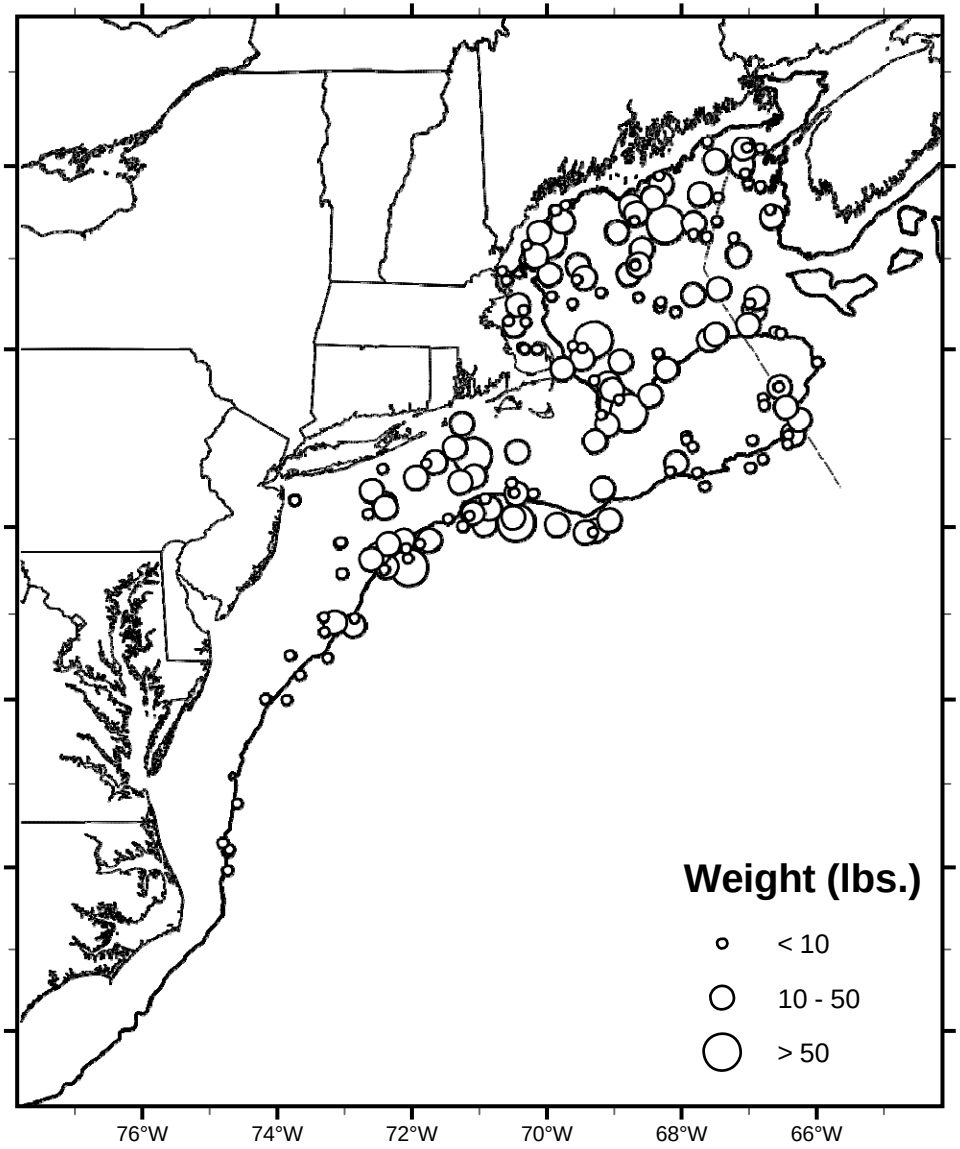


ACADIAN REDFISH

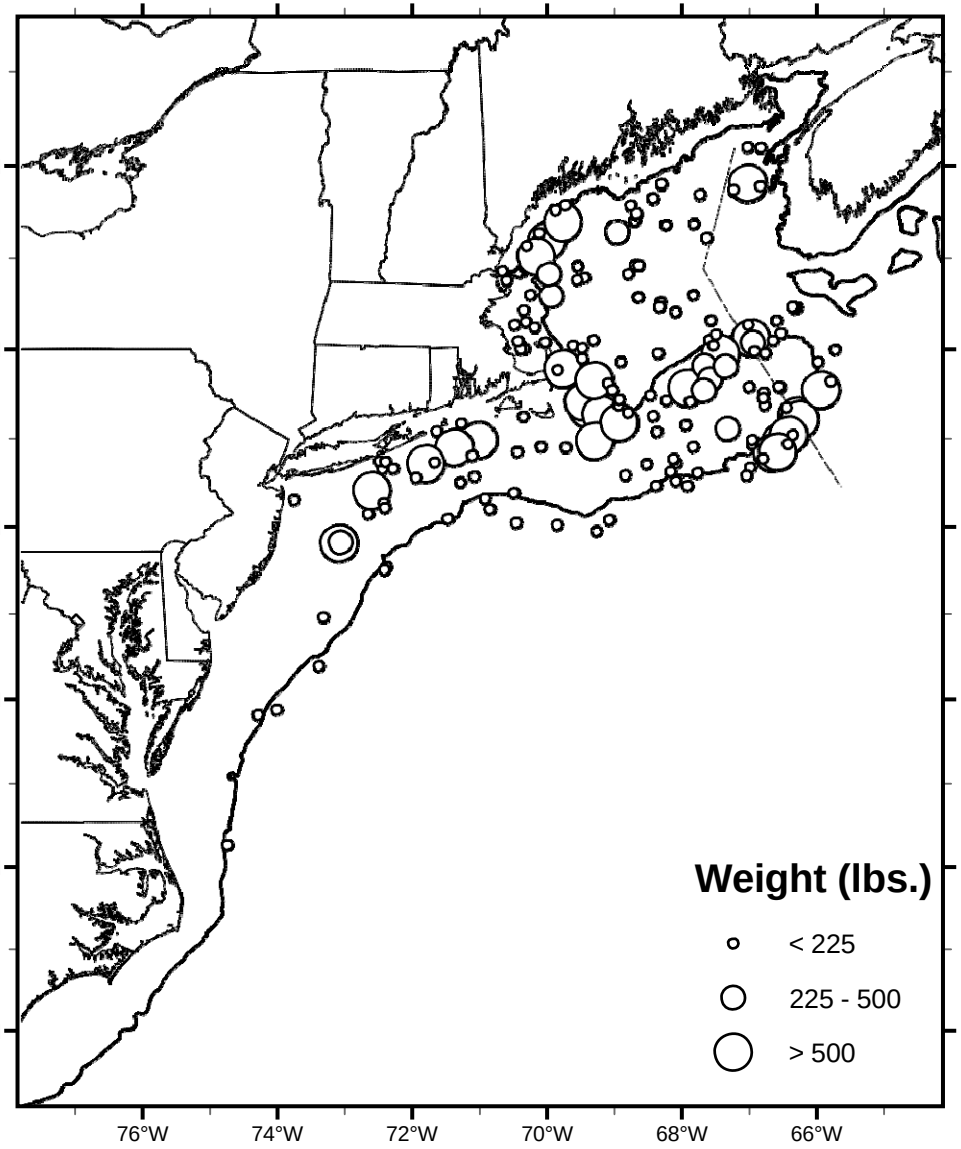


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

GOOSEFISH

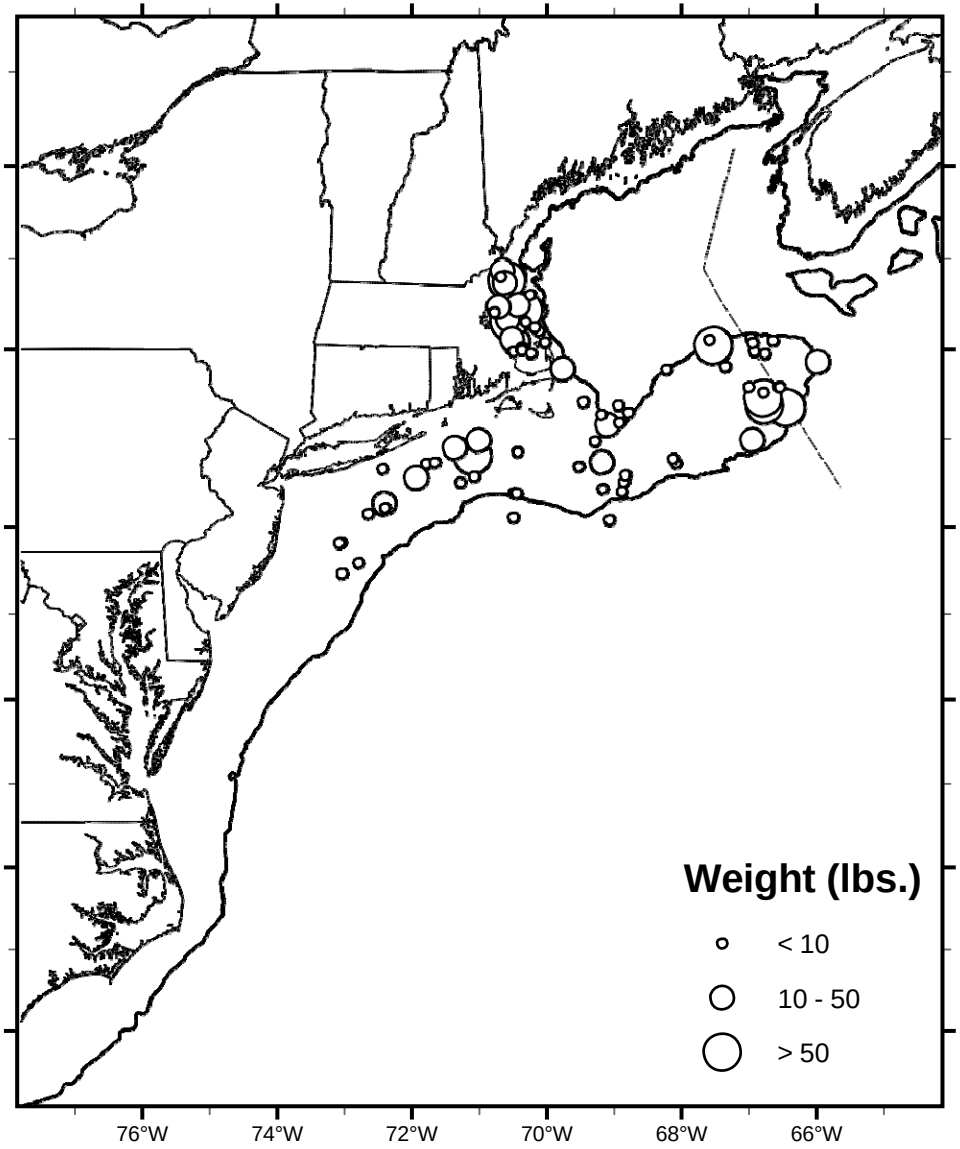


SPINY DOGFISH

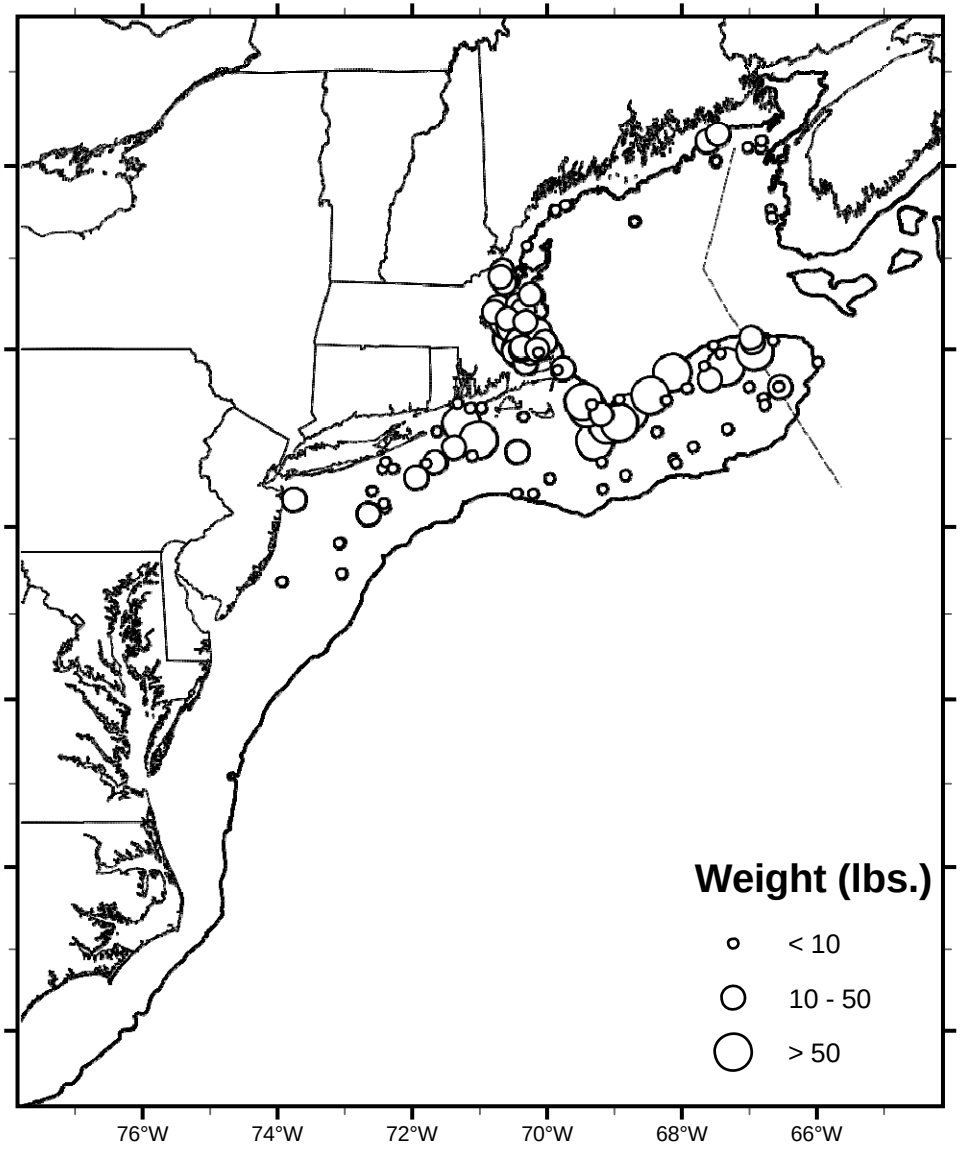


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

YELLOWTAIL FLOUNDER

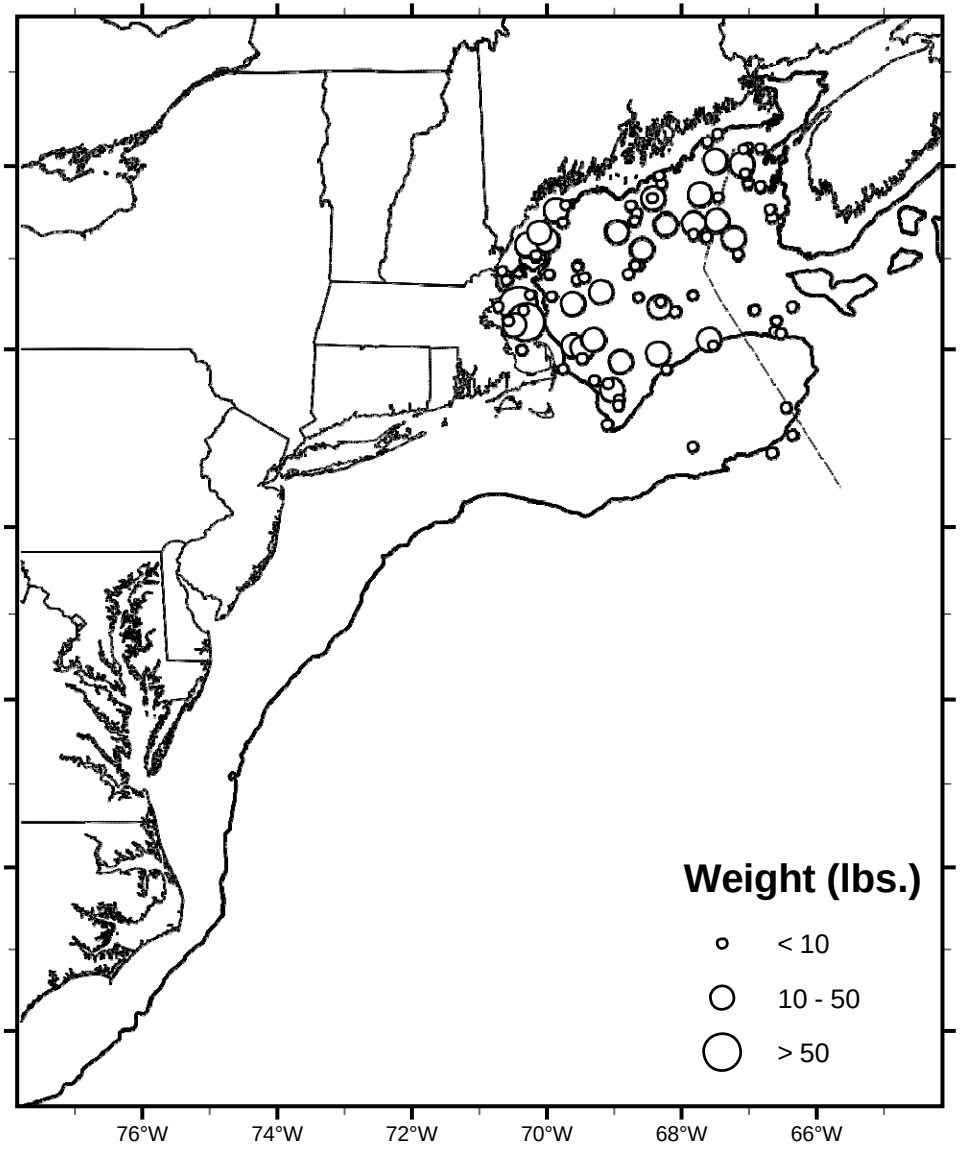


WINTER FLOUNDER

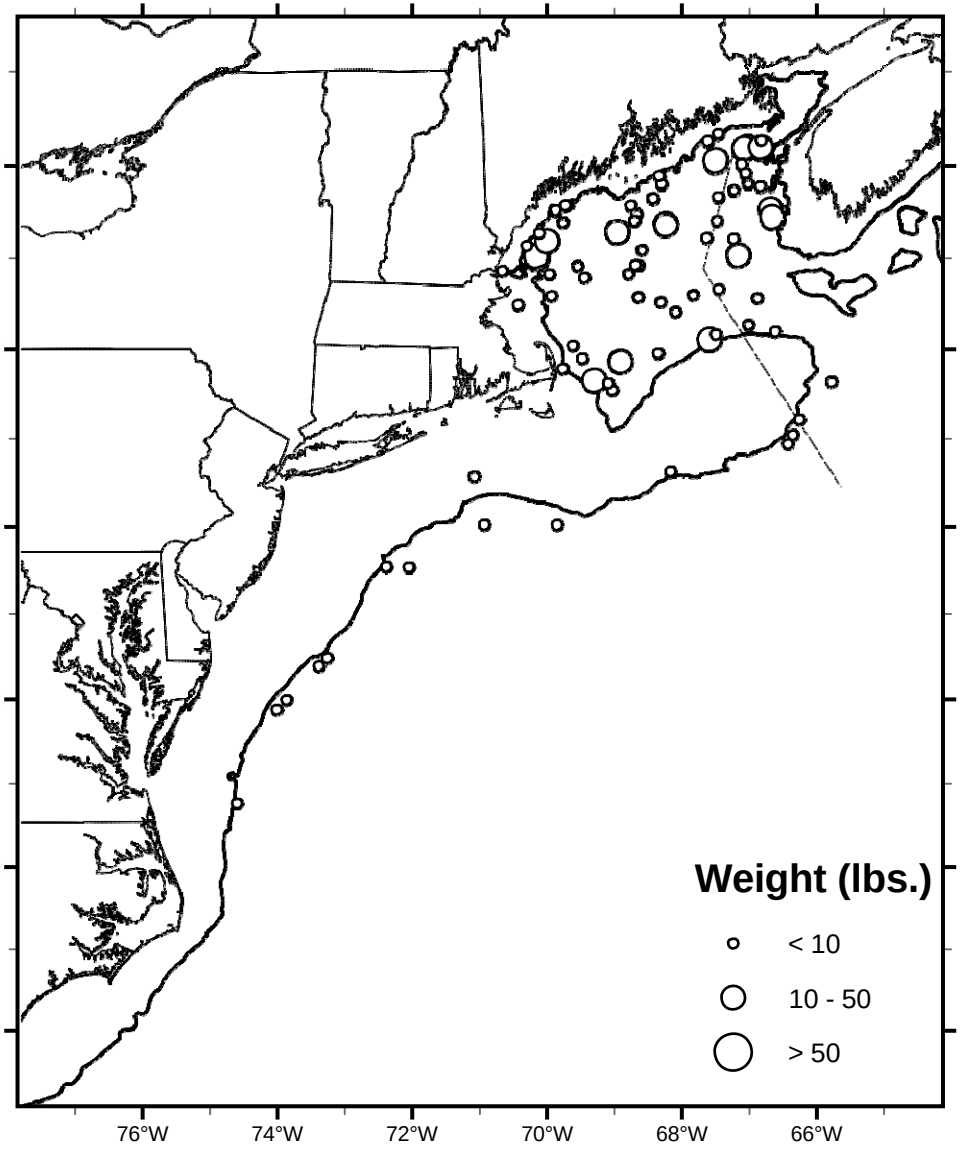


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

AMERICAN PLAICE

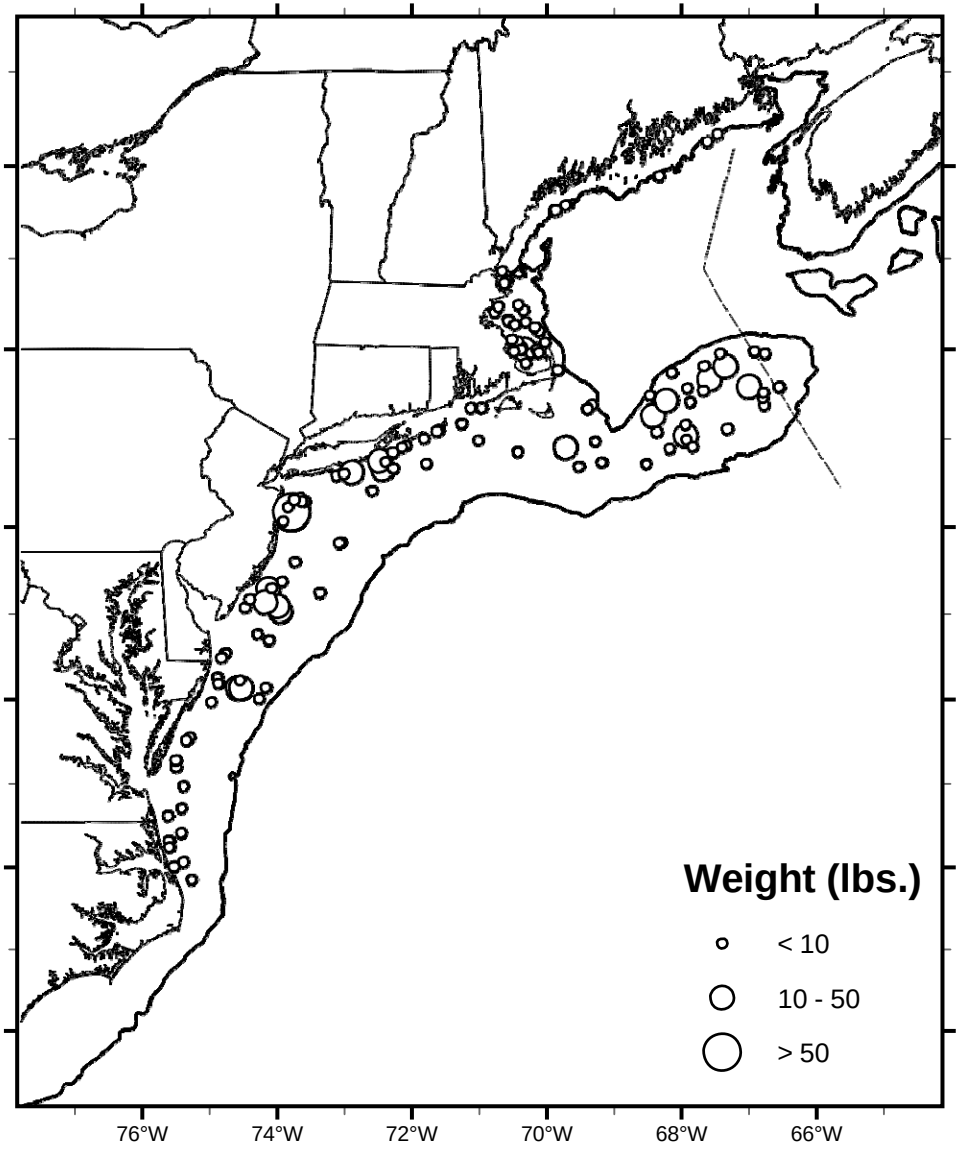


WITCH FLOUNDER

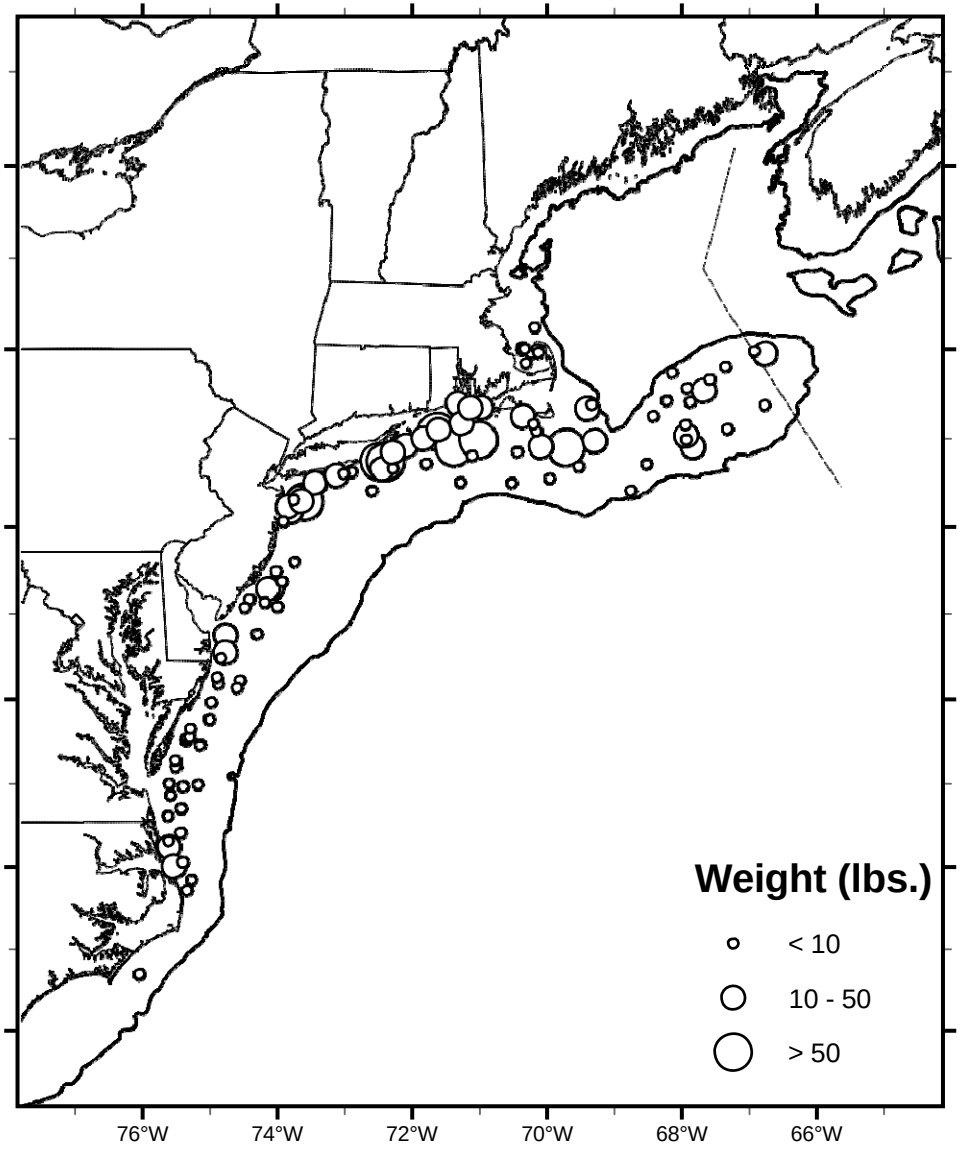


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

WINDOWPANE FLOUNDER

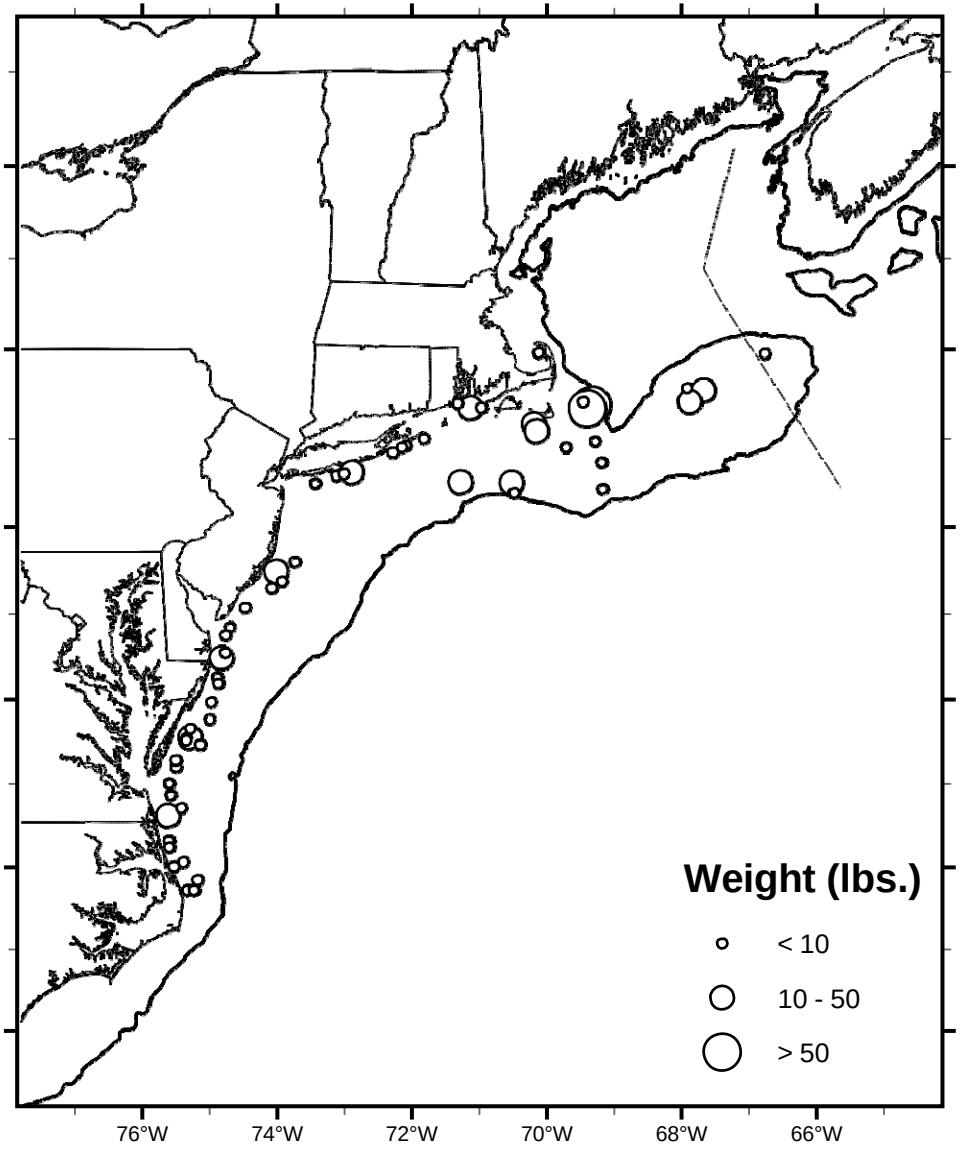


SUMMER FLOUNDER

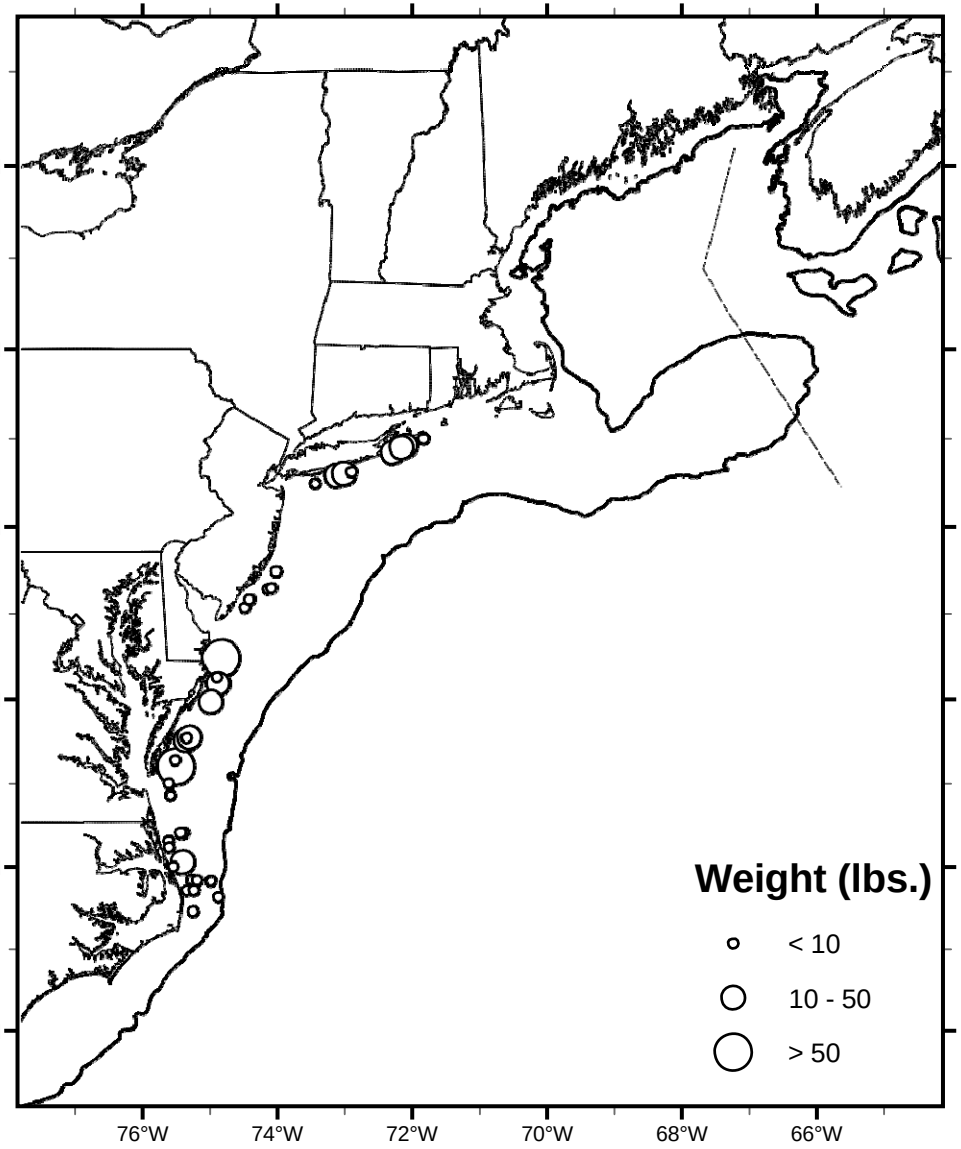


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

BLUEFISH

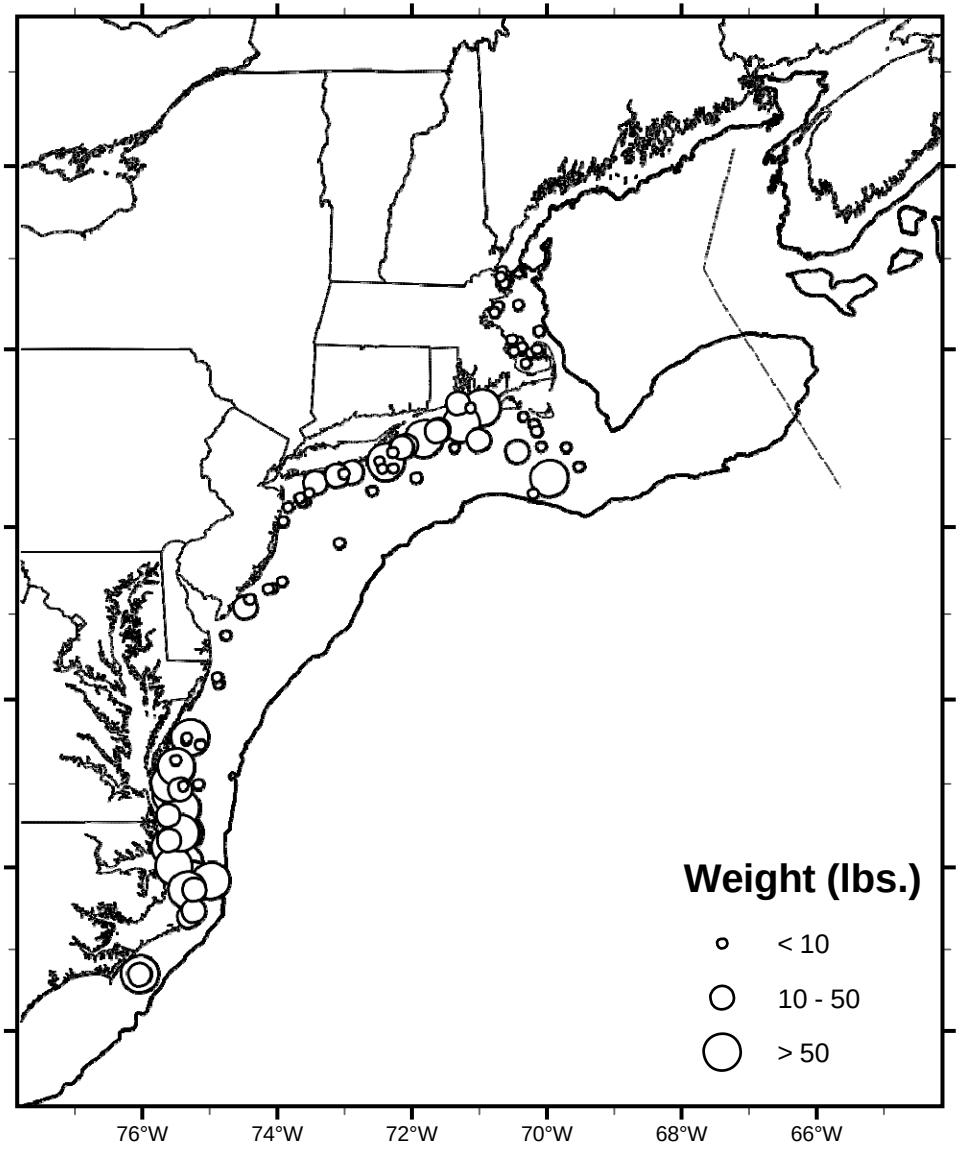


WEAKFISH

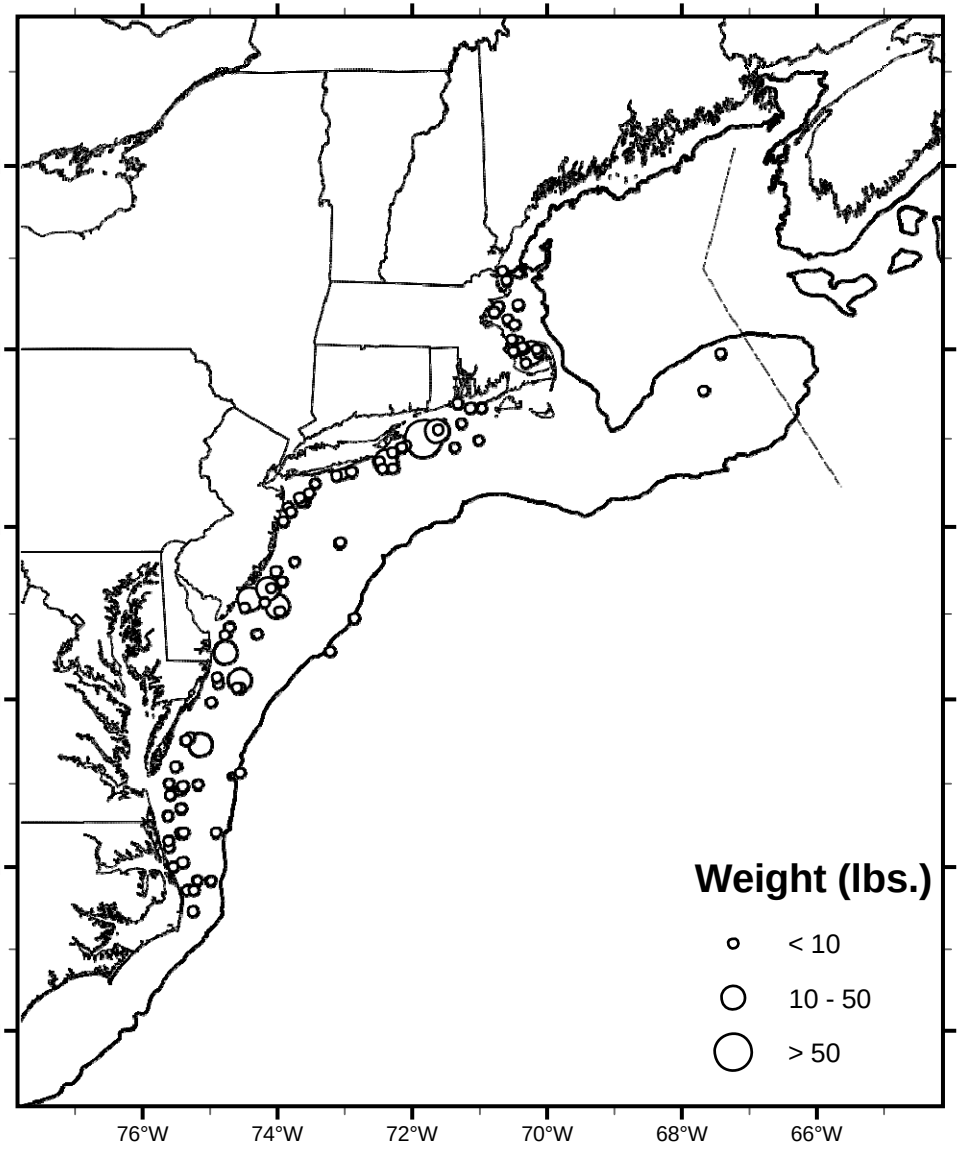


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

SCUP

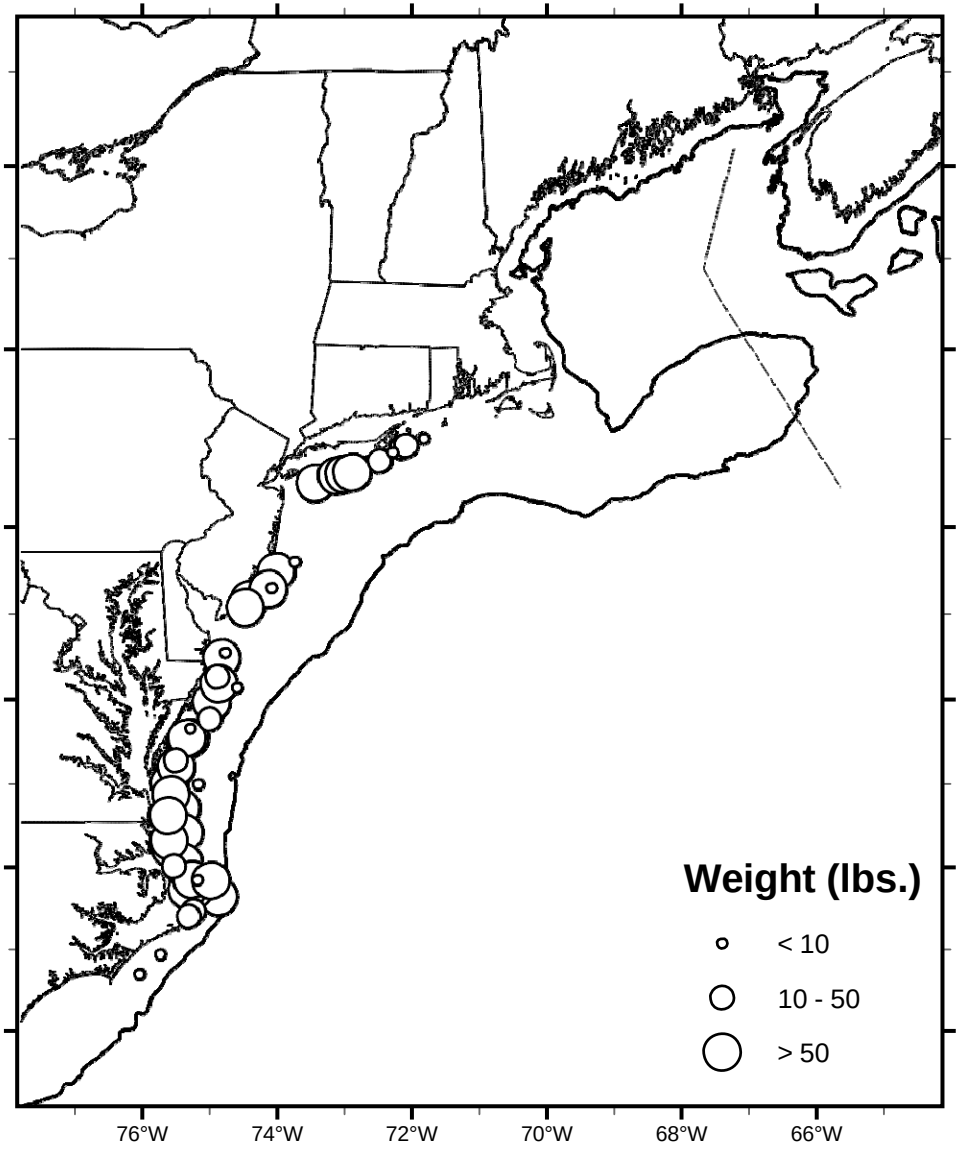


BLACK SEA BASS

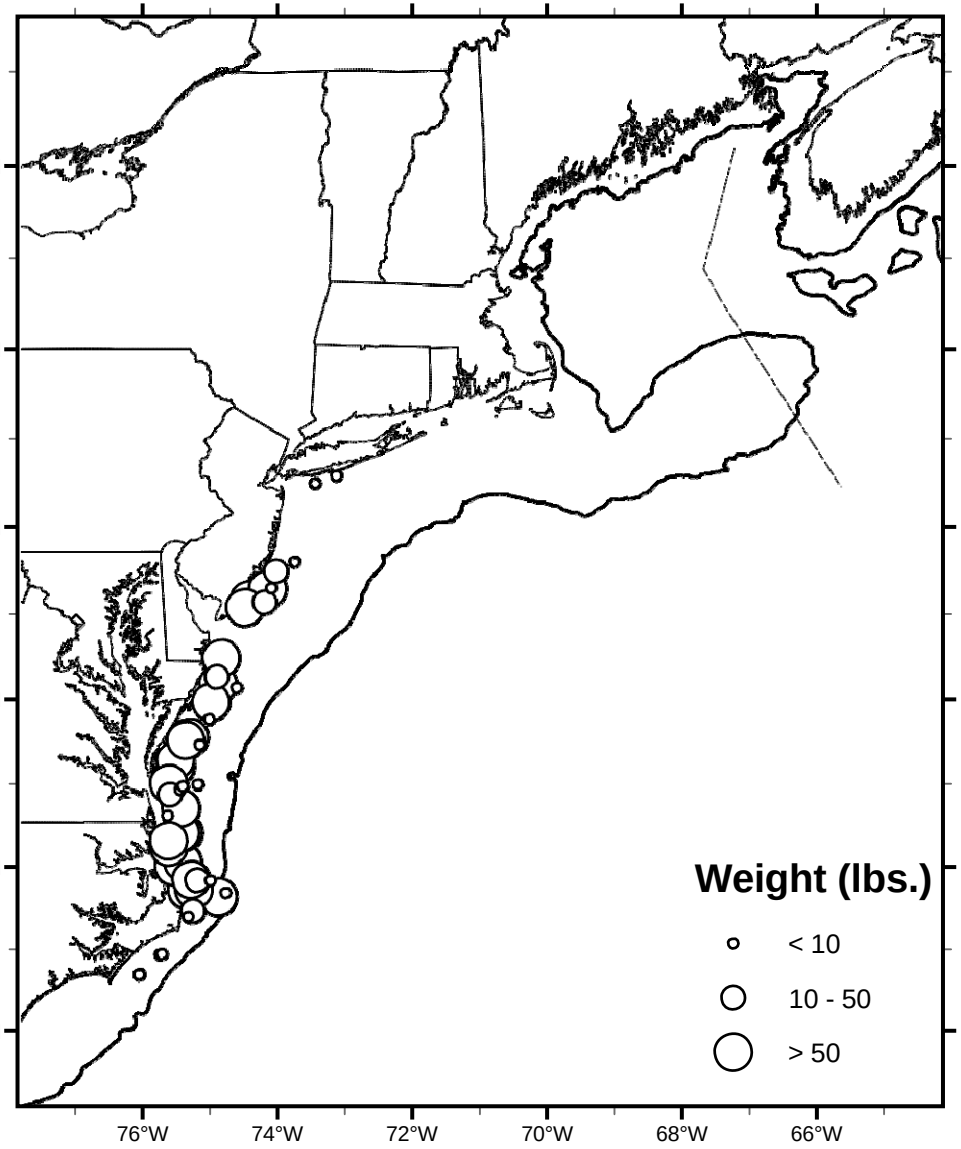


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

SPOT

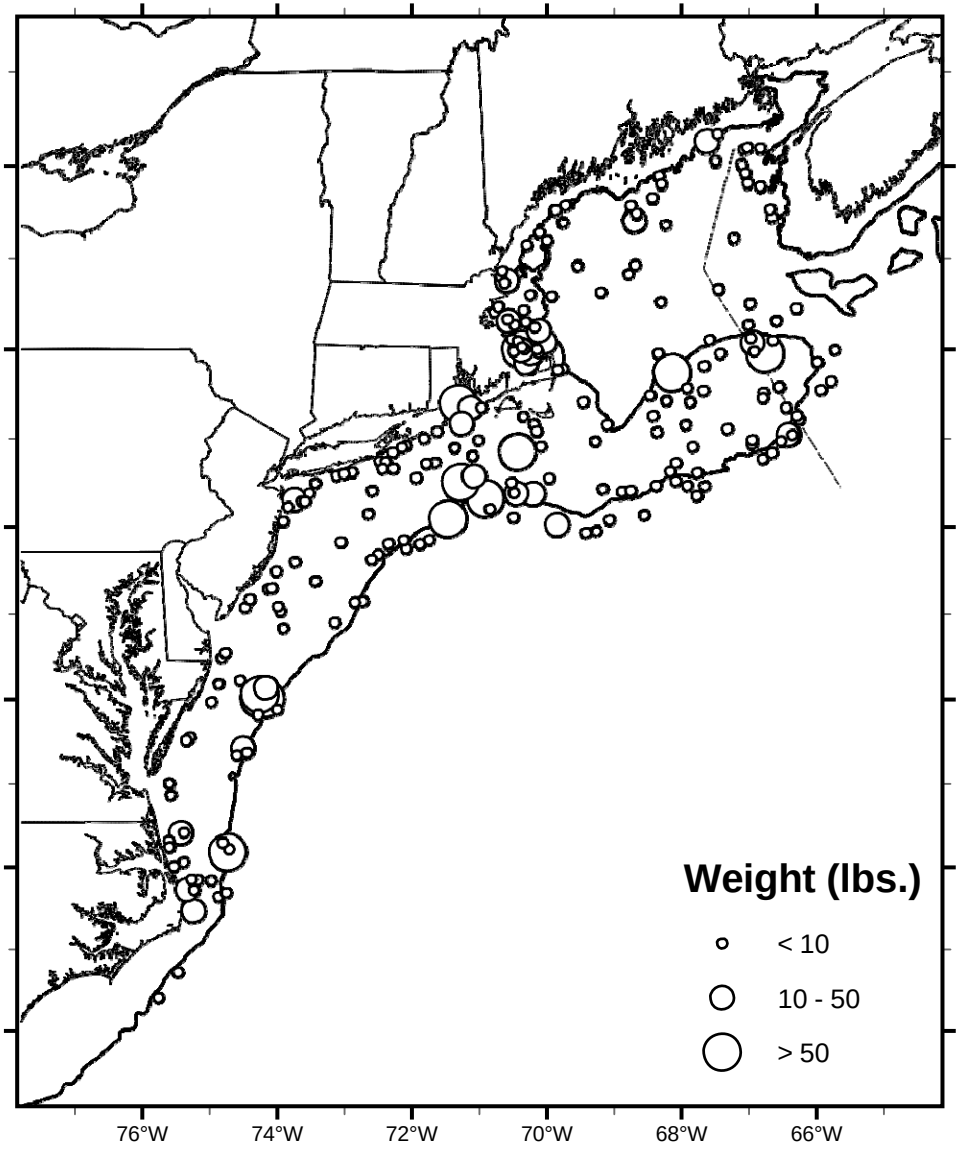


ATLANTIC CROAKER

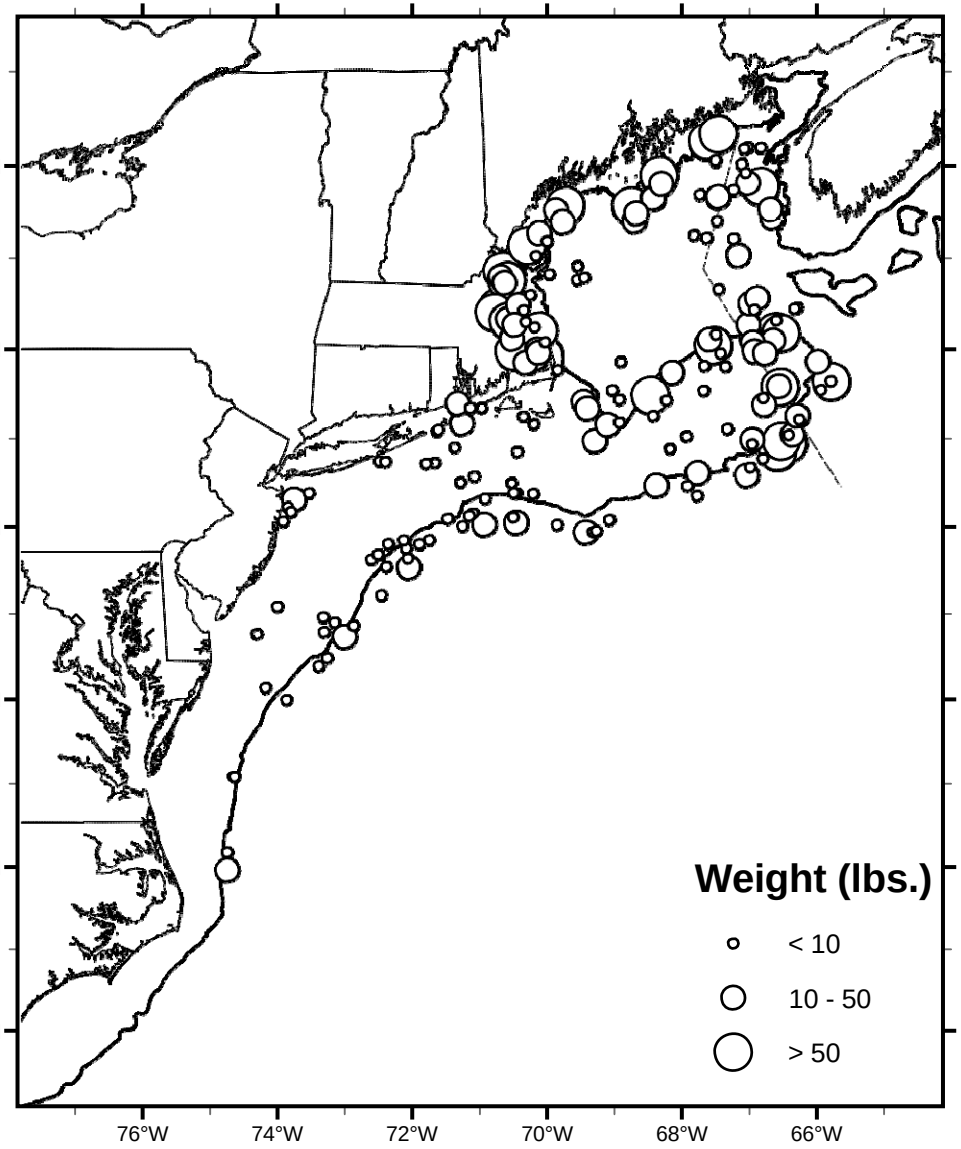


NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

BUTTERFISH

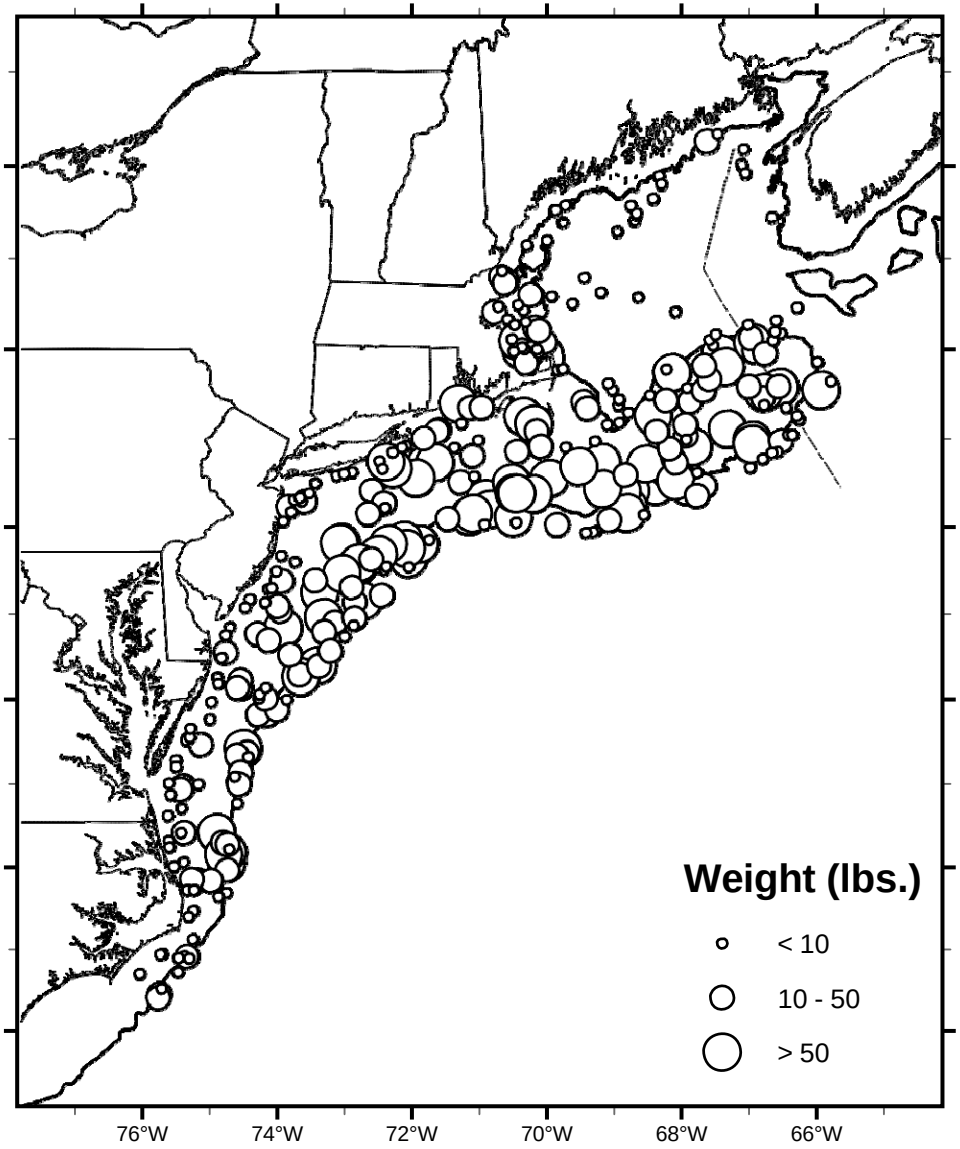


AMERICAN LOBSTER



NOAA Fisheries Service
NEFSC Bottom Trawl Survey
6 September to 11 November 2012

LOLIGO



ILLEX