

RESOURCE SURVEY REPORT
Catch Summary
NOAA Fisheries Northeast Fisheries Science Center
Spring Multispecies Bottom Trawl Survey
Virginia – Gulf of Maine
13 March – 27 May 2021

Submitted to: NOAA, NEFSC

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Date: 2021

Resource Survey Report

Bottom Trawl Survey

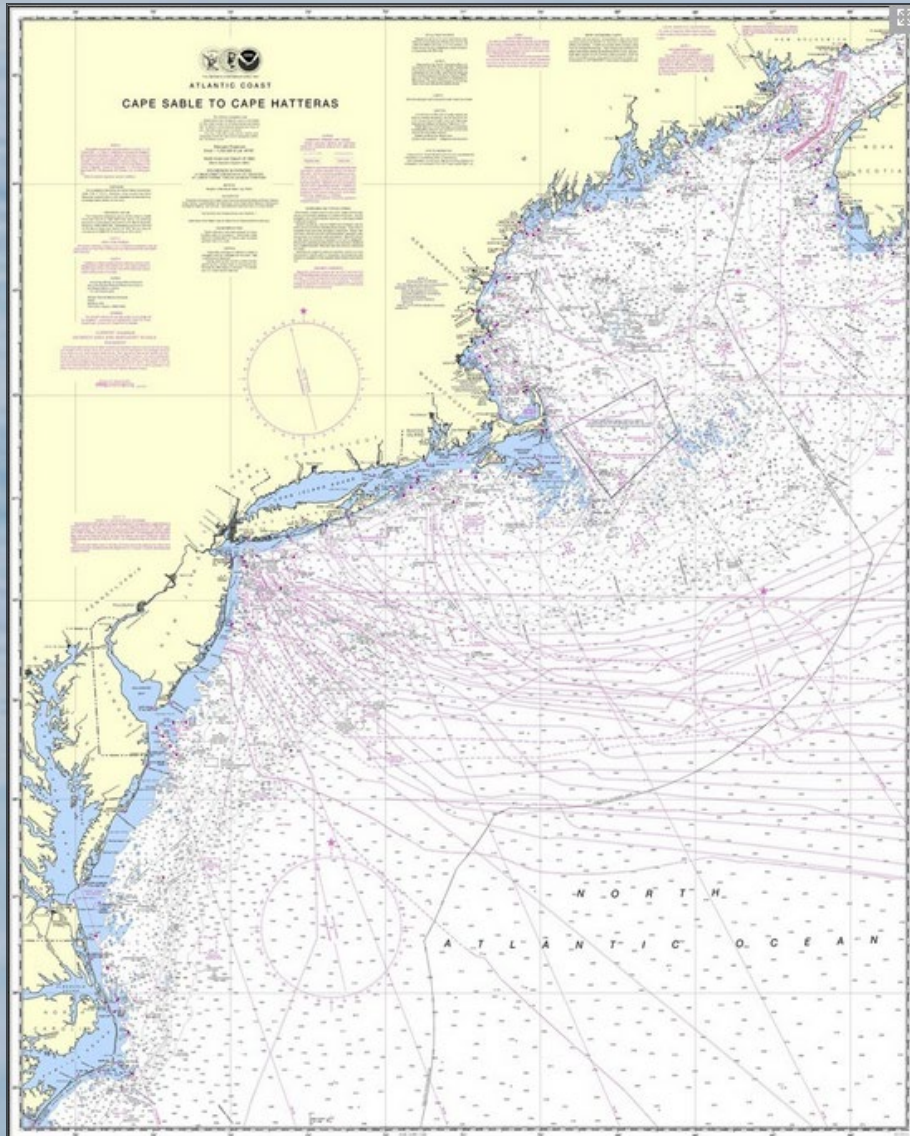


Cape Hatteras – Gulf of Maine

13 March – 27 May 2021

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

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



NOAA FISHERIES SERVICE
Northeast Fisheries Science Center
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NEFSC

Significant Changes to the NEFSC Multispecies Bottom Trawl Survey

Significant changes in survey methodology were implemented, beginning with the 2009 Spring Multispecies Bottom Trawl Survey, which have significant implications for the use of these data. Prior to 2009, multispecies bottom trawl surveys were conducted primarily on the NOAA Ship *Albatross IV*. In 2009, the survey was conducted on the NOAA Ship *Henry B. Bigelow*, which is equipped with an autotrawl winch system that equalizes port and starboard warp tensions throughout the duration of survey tows.

The survey bottom trawl sampling gear was also changed. Prior to 2009, the survey was conducted with a standardized Yankee 36 bottom trawl and 450kg Euronet, polyvalent trawl doors. Beginning in 2009, the is conducted using a standardized 400 x 12cm, 4-seam bottom trawl and 2.2m², 550kg, Poly-Ice oval trawl doors. The survey bottom trawl gear was designed and tested in collaboration between the NEFSC and regional fishing industry, fishery managers and academic stakeholders through the mid-Atlantic and New England Trawl Advisory Panel.

The standard survey towing speed was decreased from 3.8kn to 3.0kn, speed measured over ground, beginning in 2009. This towing speed was selected after extensive towing speed and warp to depth ratio trials conducted on the NOAA Ship *Henry B. Bigelow*. The standard tow duration was also changed from 30 minutes (timed from winch lock to winch reengage) to 20 minutes of actual time on-bottom (measured in real-time by acoustic trawl mensuration equipment). The decrease of both the towing speed and duration resulted in a decrease of average tow distance from 1.9nm to 1.0nm.

Station allocation also changed significantly due to an increase of available vessel time from 48 to 60 sea days and a reduction of inshore sampling by the NOAA Ship *Henry B. Bigelow*. As a result, station density was increased in offshore strata. Inshore areas of the mid-Atlantic will continue to be sampled by the Northeast Area Monitoring and Assessment Program (NEAMAP) Southern New England/Mid-Atlantic near shore trawl survey.

In 2008, the NEFSC conducted an extensive study to estimate the relative catchability of the NOAA Ship *Albatross IV*, sampling with the standard Yankee 36 survey bottom trawl following historical protocols, and the NOAA Ship *Henry B. Bigelow*, sampling with the standard 400 x 12cm, 4-seam survey bottom trawl following revised protocols. Results of this study were peer reviewed in August 2009 and can be found in the NEFSC reference document 10-05: [Estimation of Albatross IV to Henry B. Bigelow Calibration Factors](#).

RESOURCE SURVEY REPORT

Catch Summary

NOAA Fisheries
Northeast Fisheries Science Center

Spring Multispecies Bottom Trawl Survey

Virginia – Gulf of Maine
13 March – 27 May 2021

The Northeast Fisheries Science Center completed the 2021 spring multispecies bottom trawl survey aboard NOAA Ship *Henry B. Bigelow* with 313 representative stations completed this season from March 13 – May 27, 2021. A non-COVID medical issue delayed the start of the survey and required dropping 30 stations south of Virginia in strata 03-41, 03-44, 01-61, 01-62, 01-63, 01-64, 07-52, 08-50, 08-51, 08-52, and 08-53. Vertical profiles of temperature and salinity were collected at all trawl stations. Plankton were also sampled at a subset of stations, with 92 bongo samples taken over the survey region.

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 (NEFSC) 2021 spring multispecies bottom trawl survey aboard the NOAA Ship *Henry B. Bigelow*. Details regarding NEFSC bottom trawl survey standard operating procedures can be found in the NEFSC reference document 14-06: [NEFSC Bottom Trawl Survey Protocols for the NOAA Ship Henry B. Bigelow](#).

Because of the 20-minute tow duration, and random selection of station locations, catches can be light compared with commercial tows. Vessel operations are conducted on a 24-hour basis and catches have not been adjusted for day/night differences. Nevertheless, these data can provide useful information about the distribution and relative abundance of species inhabiting the survey area.

For further information contact Philip Politis (508-495-2171; Philip.Politis@noaa.gov), NOAA Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report, go to the [Ecosystems Surveys Branch website](#).

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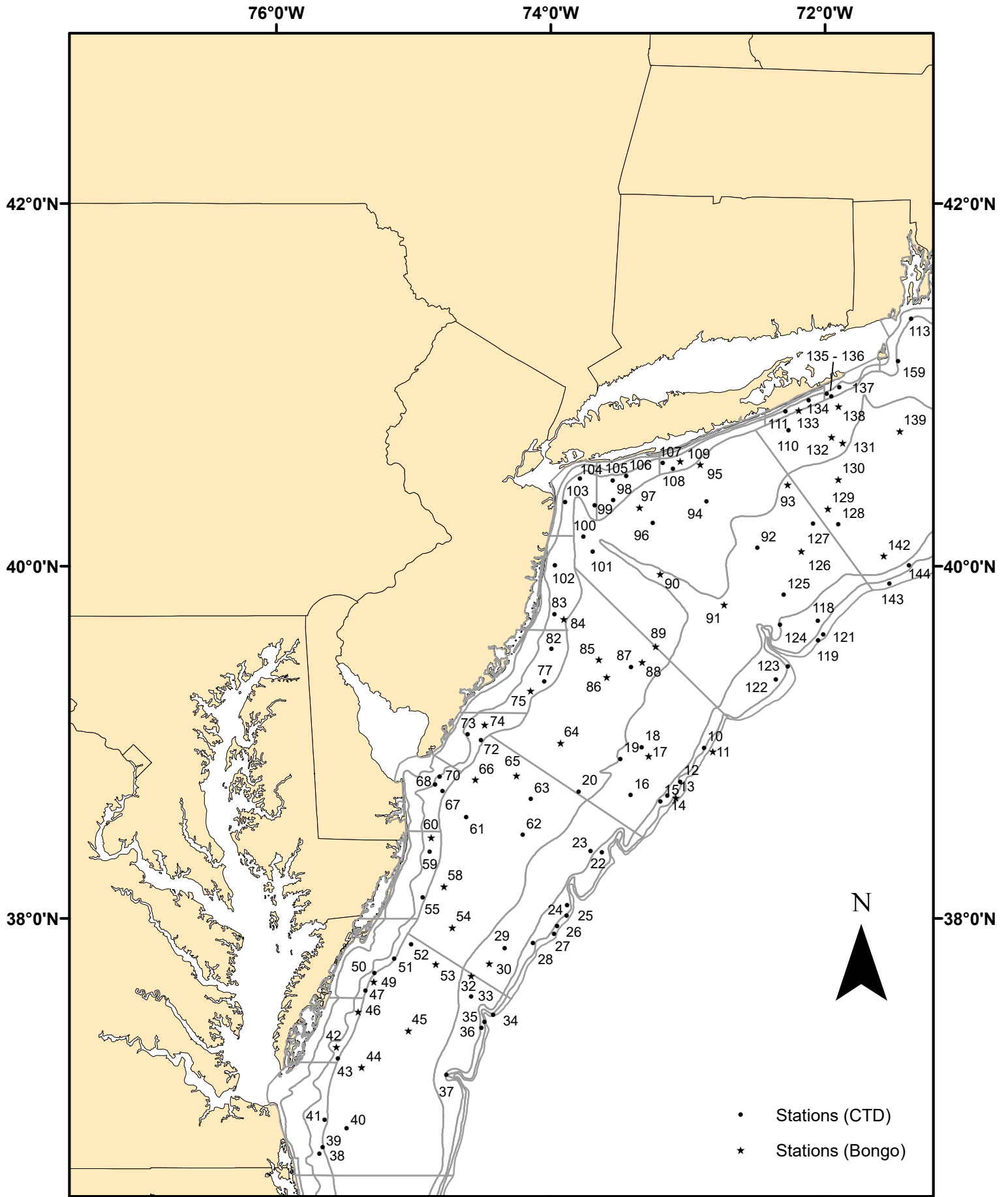


Figure 1. Representative trawl hauls made from NOAA Ship *Henry B. Bigelow*, during the Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021.

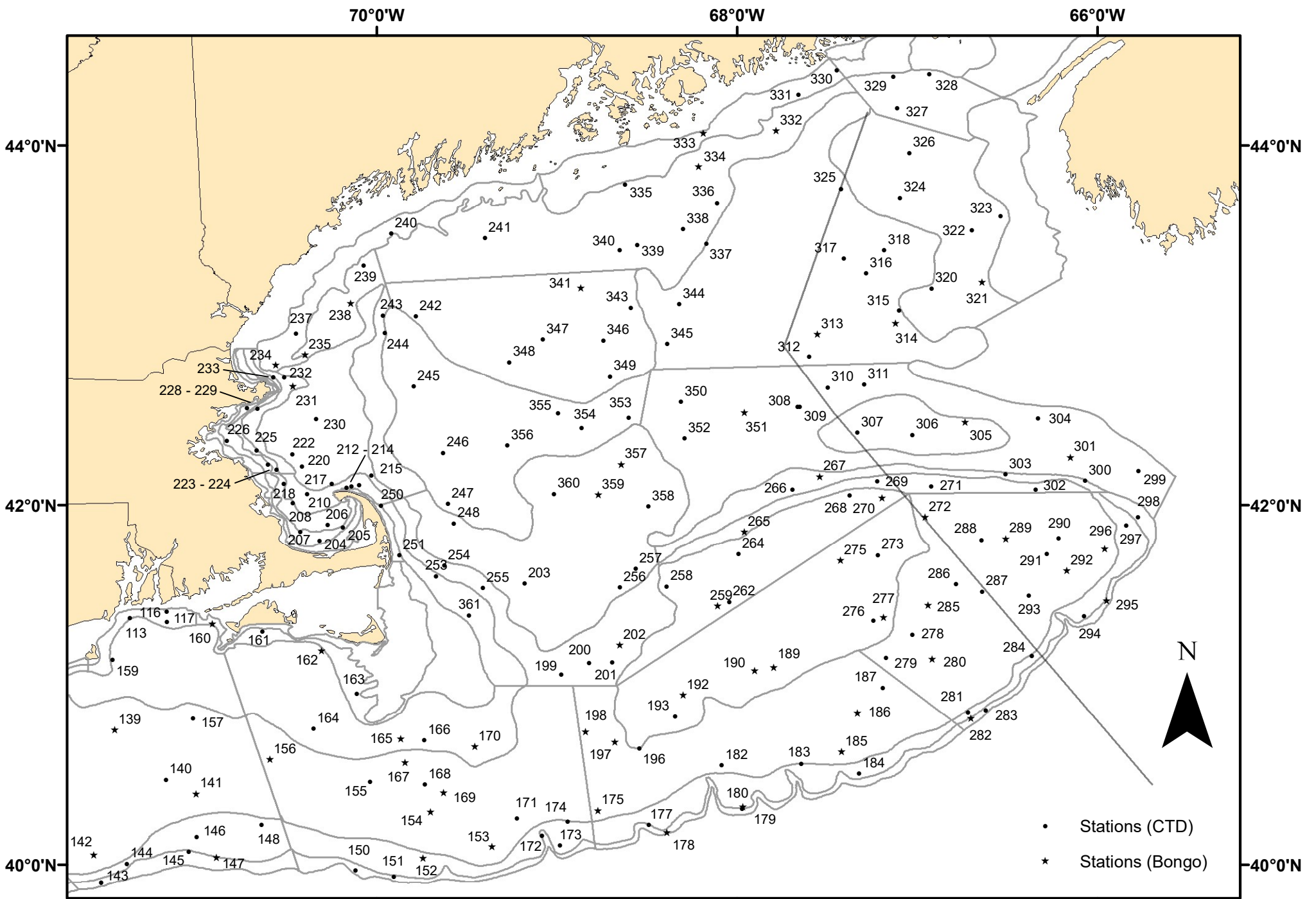


Figure 2. Representative trawl hauls made from NOAA Ship *Henry B. Bigelow*, during the Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021.

Table 1: Station report from NOAA Fisheries, Northeast Fisheries Science Center's
spring multispecies bottom trawl survey, 13 March - 27 May 2021

STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
10	3/16/2021 13:16	38.97633	-72.88250	38.99083	-72.87183	20.0558	1.1381	116.43
11	3/16/2021 17:08	38.95519	-72.81880	38.94536	-72.83504	20.1373	1.0399	327.87
12	3/16/2021 20:06	38.78483	-73.05615	38.76934	-73.04722	20.1006	1.0132	194.99
13	3/16/2021 22:36	38.69185	-73.08784	38.67810	-73.10030	20.0326	1.0091	203.30
14	3/17/2021 0:42	38.70391	-73.15083	38.68770	-73.15484	20.0059	0.9880	132.07
15	3/17/2021 2:11	38.67277	-73.20114	38.66339	-73.21875	19.9992	1.0000	118.77
16	3/17/2021 4:04	38.70882	-73.41855	38.72384	-73.40978	20.0440	0.9895	78.08
17	3/17/2021 6:46	38.92868	-73.28555	38.91250	-73.29221	20.0279	1.0120	70.94
18	3/17/2021 8:33	38.98010	-73.33858	38.98446	-73.35940	19.9963	1.0109	67.68
19	3/17/2021 10:22	38.91498	-73.49229	38.89981	-73.50144	20.0557	0.9984	58.32
20	3/17/2021 13:13	38.72907	-73.79748	38.71995	-73.78018	19.9864	0.9778	51.10
22	3/17/2021 17:04	38.38095	-73.62760	38.38164	-73.60557	20.0782	1.0376	119.60
23	3/17/2021 19:10	38.39009	-73.70941	38.40186	-73.69463	20.0095	0.9898	95.64
24	3/17/2021 22:57	38.07749	-73.88111	38.09449	-73.87770	20.1475	1.0292	135.35
25	3/18/2021 0:55	38.01835	-73.88355	38.00446	-73.89558	20.0705	1.0144	234.72
26	3/18/2021 2:28	37.95831	-73.95345	37.94510	-73.96724	20.0832	1.0263	198.72
27	3/18/2021 4:48	37.91461	-73.97578	37.89958	-73.98515	20.0269	1.0053	286.90
28	3/18/2021 6:42	37.86047	-74.12866	37.84726	-74.14182	19.9858	1.0059	145.59
29	3/18/2021 8:33	37.82868	-74.33597	37.81319	-74.34350	20.0599	0.9941	68.00
30	3/18/2021 10:18	37.73897	-74.44694	37.72241	-74.44291	20.0013	1.0097	66.15
32	3/18/2021 13:48	37.66819	-74.57879	37.65315	-74.58715	20.0099	0.9851	56.86
33	3/18/2021 15:13	37.54955	-74.57972	37.53429	-74.58845	20.0493	0.9980	64.74
34	3/18/2021 17:31	37.44471	-74.41964	37.43525	-74.43560	19.9994	0.9821	200.44
35	3/18/2021 19:45	37.40323	-74.48291	37.39160	-74.46902	19.9918	0.9924	222.98
36	3/18/2021 21:49	37.36786	-74.50481	37.35196	-74.50409	20.0061	0.9500	116.81
37	3/19/2021 0:44	37.09756	-74.75964	37.08306	-74.75567	20.0059	1.0060	128.03
38	3/21/2021 2:38	36.63383	-75.68500	36.65000	-75.67883	19.9972	1.1130	18.18
39	3/21/2021 3:53	36.67210	-75.66261	36.68851	-75.66292	20.1349	0.9846	18.90
40	3/21/2021 5:51	36.78527	-75.48652	36.79640	-75.47117	19.9884	0.9920	21.35
41	3/21/2021 7:38	36.83198	-75.64695	36.83148	-75.66756	19.9833	0.9925	19.58
42	3/21/2021 11:56	37.25642	-75.56241	37.27052	-75.55110	20.0052	1.0023	20.83
43	3/21/2021 13:36	37.18887	-75.55095	37.20319	-75.54074	19.9922	0.9865	24.58
44	3/21/2021 15:41	37.13680	-75.37710	37.14995	-75.36397	20.0110	1.0052	28.72
45	3/21/2021 18:24	37.35194	-75.03627	37.35903	-75.01718	19.9929	1.0023	37.32
46	3/21/2021 21:01	37.46110	-75.40180	37.47716	-75.39556	20.0004	1.0033	22.49
47	3/21/2021 23:04	37.58487	-75.34831	37.60059	-75.34235	20.0068	0.9843	21.74

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STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
49	3/22/2021 0:16	37.63335	-75.28753	37.64857	-75.27874	19.9944	0.9988	23.30
50	3/22/2021 1:45	37.68671	-75.28466	37.69792	-75.26892	20.0148	1.0027	23.72
51	3/22/2021 3:33	37.77032	-75.13975	37.78468	-75.12961	20.0093	0.9815	27.17
52	3/22/2021 4:59	37.85281	-75.01778	37.85999	-74.99891	20.0105	0.9980	24.26
53	3/22/2021 6:51	37.73570	-74.83709	37.74915	-74.82451	20.0249	0.9993	36.49
54	3/22/2021 8:57	37.94917	-74.71550	37.95637	-74.69672	19.9888	0.9875	33.24
55	3/22/2021 11:51	38.12076	-74.93304	38.13736	-74.93061	20.0010	1.0021	23.62
58	3/22/2021 13:41	38.18472	-74.77648	38.19560	-74.76104	19.9920	0.9879	31.18
59	3/22/2021 16:01	38.38547	-74.88140	38.39817	-74.86733	20.0060	1.0077	22.38
60	3/22/2021 18:05	38.46411	-74.86884	38.48022	-74.87093	20.0012	0.9701	21.79
61	3/22/2021 20:06	38.58179	-74.61543	38.59656	-74.60543	20.0069	1.0006	30.63
62	3/22/2021 22:45	38.48245	-74.20291	38.49890	-74.19847	20.0006	1.0101	54.79
63	3/23/2021 0:39	38.68543	-74.14481	38.70155	-74.14258	19.9965	0.9820	47.98
64	3/23/2021 3:22	39.00290	-73.92788	39.01944	-73.93166	19.9968	1.0090	39.37
65	3/23/2021 6:01	38.81819	-74.24841	38.82473	-74.22913	19.9976	0.9860	39.82
66	3/23/2021 9:25	38.79533	-74.54850	38.79067	-74.52800	19.9748	1.0914	
67	3/23/2021 11:58	38.73145	-74.78873	38.74041	-74.77102	20.0376	0.9851	19.53
68	3/23/2021 13:12	38.76879	-74.84173	38.77803	-74.82420	20.0022	0.9906	17.03
70	3/23/2021 14:16	38.81292	-74.80945	38.82143	-74.79112	19.9862	0.9976	17.20
72	3/23/2021 16:57	39.01882	-74.50732	39.03434	-74.51421	20.0070	0.9843	18.95
73	3/23/2021 18:23	39.05396	-74.60473	39.06887	-74.59483	20.0124	1.0022	20.86
74	3/23/2021 19:49	39.10825	-74.47952	39.11874	-74.46306	20.0033	0.9862	20.35
75	3/23/2021 22:32	39.29820	-74.14533	39.31327	-74.15471	20.0106	0.9968	28.05
77	3/23/2021 23:58	39.35266	-74.04727	39.36921	-74.05053	20.0065	1.0011	25.07
82	3/24/2021 2:06	39.53817	-73.99433	39.55500	-73.99417	20.0112	1.0071	25.12
83	3/24/2021 3:53	39.73200	-73.97167	39.74833	-73.96567	19.9969	1.0943	23.43
84	3/24/2021 5:15	39.70383	-73.90433	39.71650	-73.89033	20.0040	1.1205	27.19
85	3/24/2021 7:44	39.47483	-73.64817	39.48333	-73.62950	20.0332	1.1374	33.62
86	3/24/2021 9:24	39.37700	-73.59183	39.39250	-73.58700	20.0172	1.0572	45.46
87	3/24/2021 11:00	39.43433	-73.41517	39.44967	-73.40683	19.9928	1.0848	34.31
88	3/24/2021 12:52	39.46200	-73.33350	39.47817	-73.32850	19.9989	1.0741	34.20
89	3/24/2021 14:41	39.55117	-73.23483	39.55667	-73.21467	19.9960	1.0942	40.77
90	3/24/2021 17:31	39.95633	-73.20233	39.97017	-73.19067	20.0076	1.1139	62.34
91	3/24/2021 20:34	39.78117	-72.73617	39.78583	-72.71517	20.0220	1.1030	60.12
92	3/24/2021 23:23	40.10550	-72.49400	40.11550	-72.51183	20.0098	1.1348	60.01
93	3/25/2021 2:21	40.45300	-72.27350	40.44000	-72.26000	20.0009	1.1251	57.28

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STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
94	3/25/2021 5:58	40.36350	-72.86500	40.36883	-72.84450	20.0031	1.0905	46.27
95	3/25/2021 8:08	40.56500	-72.91067	40.56917	-72.88983	19.9737	1.0895	37.42
96	3/25/2021 11:56	40.24267	-73.25517	40.25850	-73.26233	19.9953	1.1016	39.35
97	3/25/2021 13:16	40.32883	-73.35200	40.33383	-73.37233	19.9873	1.0816	32.88
98	3/25/2021 14:49	40.36983	-73.54417	40.36367	-73.56417	19.9825	1.1030	25.01
99	3/25/2021 16:10	40.34117	-73.67967	40.35417	-73.69317	20.0153	1.1232	25.93
100	3/25/2021 18:23	40.16683	-73.76283	40.17167	-73.74183	20.0058	1.1111	38.67
101	3/25/2021 20:09	40.08233	-73.69433	40.08167	-73.67267	20.0090	1.0254	36.71
102	3/25/2021 22:37	40.00767	-73.96850	40.02483	-73.96750	20.0037	1.0503	23.57
103	3/26/2021 2:06	40.36100	-73.89517	40.36417	-73.87433	19.9914	1.0417	23.60
104	3/26/2021 4:00	40.49067	-73.78617	40.49400	-73.76450	19.9788	1.0752	25.43
105	3/26/2021 5:53	40.47850	-73.54850	40.48417	-73.52867	19.9828	1.0741	22.49
106	3/26/2021 7:02	40.50483	-73.45100	40.50750	-73.43000	19.9749	1.0286	22.00
107	3/26/2021 8:55	40.57767	-73.18333	40.58300	-73.16283	19.9780	1.0940	23.68
108	3/26/2021 10:05	40.54533	-73.10950	40.54800	-73.08733	19.9720	1.0891	30.47
109	3/26/2021 11:46	40.58467	-73.05667	40.59733	-73.04250	19.9873	1.1397	26.11
110	3/26/2021 16:16	40.75567	-72.26700	40.73900	-72.26700	20.1238	1.0199	41.70
111	3/26/2021 18:08	40.86267	-72.29033	40.84550	-72.29467	19.9998	1.1059	26.25
113	3/27/2021 8:53	41.37283	-71.37200	41.36050	-71.38700	19.9653	1.1467	35.33
117	3/27/2021 13:43	41.35250	-71.16517	41.34317	-71.18400	20.0128	1.1543	33.53
118	4/11/2021 7:23	39.69417	-72.05317	39.68467	-72.03583	19.9844	1.1157	152.95
119	4/11/2021 9:50	39.61967	-72.01267	39.60733	-72.02700	19.9962	1.1547	238.91
121	4/11/2021 13:13	39.58683	-72.05033	39.57583	-72.06500	20.0042	1.0855	241.78
123	4/11/2021 20:35	39.43817	-72.27283	39.42417	-72.26467	20.0225	1.0665	208.66
124	4/11/2021 23:19	39.67183	-72.33000	39.68700	-72.32183	19.9977	1.0764	113.56
125	4/12/2021 1:14	39.84050	-72.30200	39.83267	-72.28317	19.9954	1.1147	86.36
126	4/12/2021 3:54	40.08233	-72.17067	40.08850	-72.15067	19.9855	1.0956	72.43
127	4/12/2021 6:00	40.23917	-72.08767	40.25317	-72.07683	20.0004	1.0968	63.47
128	4/12/2021 8:14	40.23367	-71.90350	40.24050	-71.88383	19.9785	1.1114	72.31
129	4/12/2021 10:00	40.32033	-71.97800	40.32700	-71.95800	19.9808	1.1157	65.02
130	4/12/2021 11:53	40.48550	-71.90250	40.49983	-71.89200	19.9730	1.1203	68.69
131	4/12/2021 13:56	40.68350	-71.87150	40.69633	-71.85817	19.9794	1.1411	56.19
132	4/12/2021 15:35	40.71783	-71.95167	40.72950	-71.93600	19.9958	1.1471	46.04
133	4/12/2021 17:54	40.86750	-72.19033	40.87417	-72.17083	19.9977	1.0846	31.67
134	4/12/2021 19:15	40.92383	-72.11917	40.93583	-72.10433	19.9953	1.1377	22.56
135	4/12/2021 20:46	40.95767	-71.98733	40.96617	-71.96867	19.9734	1.0922	26.69

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spring multispecies bottom trawl survey, 13 March - 27 May 2021

STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
136	4/12/2021 22:14	40.94650	-71.95367	40.95100	-71.93200	19.9629	1.1046	29.18
137	4/12/2021 23:31	40.99533	-71.89650	41.00267	-71.87733	19.9892	1.0974	22.92
138	4/13/2021 1:17	40.88567	-71.89983	40.89300	-71.88000	19.9814	1.1170	36.54
139	4/13/2021 4:39	40.75100	-71.45450	40.76433	-71.44067	19.9669	1.1305	63.91
140	4/13/2021 8:10	40.47383	-71.17067	40.48100	-71.15167	19.9910	1.1038	78.05
141	4/13/2021 10:15	40.39583	-71.00217	40.37883	-70.99933	19.9650	1.0634	88.69
142	4/13/2021 15:09	40.05683	-71.57150	40.04033	-71.57050	19.9776	1.0152	91.39
143	4/13/2021 17:23	39.90200	-71.53050	39.90800	-71.51033	20.0001	1.1016	276.19
144	4/13/2021 19:24	40.00617	-71.38733	40.01717	-71.37167	20.1773	1.1105	128.33
145	4/13/2021 22:57	40.07267	-71.04417	40.08183	-71.02700	19.9991	1.0793	194.48
146	4/14/2021 0:31	40.15533	-71.00000	40.17167	-71.00067	19.9797	1.0000	139.43
147	4/14/2021 3:43	40.04067	-70.89067	40.04433	-70.87000	20.0539	1.0657	208.76
148	4/14/2021 6:23	40.22100	-70.64000	40.23717	-70.64383	19.9860	1.0543	118.03
150	4/14/2021 13:48	39.96817	-70.11867	39.96767	-70.09750	19.9940	1.0181	257.70
151	4/14/2021 17:15	39.93300	-69.90633	39.94883	-69.91133	19.9832	1.0735	298.39
152	4/14/2021 19:49	40.03583	-69.74350	40.02983	-69.75867	16.0986	0.8888	127.24
153	4/14/2021 23:17	40.10100	-69.36167	40.10583	-69.38233	19.9937	1.1010	95.94
154	4/15/2021 2:17	40.29350	-69.70333	40.30767	-69.69200	20.0069	1.1092	76.96
155	4/15/2021 5:36	40.46217	-70.03850	40.46300	-70.01767	20.2457	0.9788	71.87
156	4/15/2021 9:56	40.58633	-70.59333	40.58217	-70.57250	19.9958	1.0596	65.65
157	4/15/2021 13:43	40.81717	-71.02017	40.80583	-71.00567	19.9832	1.0808	57.32
159	4/15/2021 20:14	41.14000	-71.46700	41.12967	-71.45067	20.0013	1.0664	28.87
160	4/17/2021 16:58	41.34217	-70.91350	41.34867	-70.93350	19.9911	1.0887	32.86
161	4/17/2021 20:19	41.29700	-70.63533	41.31033	-70.64700	19.9797	1.0790	22.73
162	4/17/2021 23:16	41.19283	-70.30700	41.20617	-70.32000	20.0145	1.1299	29.08
163	4/18/2021 2:18	40.95317	-70.11183	40.96917	-70.10983	19.9804	1.0000	22.52
164	4/18/2021 5:12	40.75883	-70.35150	40.76117	-70.37317	20.4908	1.0533	50.43
165	4/18/2021 8:52	40.70350	-69.86667	40.70500	-69.88833	20.0068	1.0313	47.38
166	4/18/2021 11:02	40.69483	-69.73650	40.69500	-69.75900	20.0036	1.0398	51.37
167	4/18/2021 13:06	40.56950	-69.84483	40.57467	-69.82450	19.9668	1.0791	63.81
168	4/18/2021 15:04	40.44817	-69.73417	40.45133	-69.71233	19.9581	1.0824	72.76
169	4/18/2021 16:32	40.40317	-69.62933	40.39550	-69.60950	20.0017	1.1414	68.19
170	4/18/2021 19:02	40.65883	-69.45650	40.65467	-69.43533	20.0032	1.0864	55.09
171	4/18/2021 22:24	40.25767	-69.22267	40.25833	-69.24450	19.9773	1.0298	91.98
172	4/19/2021 1:21	40.16350	-69.08350	40.17767	-69.09400	19.9913	1.1348	137.32
173	4/19/2021 3:23	40.10817	-68.98400	40.11550	-69.00233	19.9690	1.0700	156.54

Table 1: Station report from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
174	4/19/2021 5:25	40.23917	-68.94117	40.24000	-68.96250	19.9905	1.0049	115.45
175	4/19/2021 7:52	40.30317	-68.77333	40.30867	-68.79333	19.9800	1.0781	97.78
177	4/19/2021 12:05	40.22200	-68.49050	40.23200	-68.50567	19.9700	1.0637	192.78
178	4/19/2021 15:05	40.18117	-68.39150	40.17717	-68.41167	19.9678	1.0457	202.79
179	4/19/2021 18:46	40.31250	-67.97250	40.30783	-67.99283	19.9832	1.0665	217.80
180	4/19/2021 20:49	40.32433	-67.96917	40.32600	-67.99083	19.9882	1.0436	163.23
182	4/19/2021 23:17	40.55383	-68.08617	40.55067	-68.10650	19.9869	1.0239	100.14
183	4/20/2021 2:18	40.56033	-67.64433	40.55400	-67.66333	19.9891	1.0619	113.96
184	4/20/2021 4:54	40.50817	-67.32483	40.51100	-67.30300	20.0234	1.0667	140.79
185	4/20/2021 7:07	40.63017	-67.42233	40.63350	-67.40067	20.0261	1.0823	96.85
186	4/20/2021 9:31	40.84483	-67.33417	40.82850	-67.33800	19.9860	1.0583	89.28
187	4/20/2021 11:58	40.98533	-67.19233	40.99533	-67.17517	19.9996	1.1107	75.88
189	4/20/2021 15:38	41.09717	-67.79767	41.10650	-67.81600	19.9956	1.1326	50.73
190	4/20/2021 16:54	41.08083	-67.90383	41.06967	-67.91933	20.0204	1.1067	47.71
192	4/21/2021 0:13	40.94517	-68.30183	40.93900	-68.32233	20.0048	1.1138	49.98
193	4/21/2021 2:19	40.82650	-68.34600	40.81733	-68.36433	20.0013	1.1234	54.88
196	4/21/2021 5:06	40.64783	-68.54383	40.64750	-68.52217	19.9820	1.0074	62.81
197	4/21/2021 7:06	40.68600	-68.67917	40.68917	-68.65783	19.9861	1.0582	64.88
198	4/21/2021 9:38	40.74283	-68.84233	40.72917	-68.85433	19.9868	1.1249	66.72
199	4/21/2021 14:14	41.06083	-68.97800	41.07300	-68.96500	19.9925	1.0884	85.05
200	4/21/2021 16:39	41.12367	-68.82233	41.13667	-68.80917	20.0036	1.0777	77.03
201	4/21/2021 19:03	41.12867	-68.69450	41.13183	-68.71650	19.9971	1.1079	64.34
202	4/21/2021 21:14	41.22350	-68.65183	41.20800	-68.65767	19.9812	1.0531	65.04
203	4/22/2021 2:21	41.56500	-69.18133	41.54817	-69.17817	19.9828	1.0671	165.17
204	4/23/2021 11:09	41.80183	-70.31800	41.79817	-70.33983	20.0117	1.0675	25.29
205	4/23/2021 13:21	41.87783	-70.18867	41.87650	-70.21017	19.9758	1.0137	26.67
206	4/23/2021 14:34	41.89133	-70.27300	41.89017	-70.29450	20.0588	0.9946	32.53
207	4/23/2021 16:42	41.85167	-70.42617	41.85333	-70.44833	20.0103	1.0296	27.26
208	4/23/2021 19:28	42.01233	-70.46667	42.00817	-70.48817	19.9917	1.0841	38.14
210	4/23/2021 21:50	42.06333	-70.38700	42.06633	-70.40950	19.9774	1.0939	56.56
212	4/24/2021 1:46	42.09883	-70.16767	42.09633	-70.18967	20.0416	1.0580	31.43
213	4/24/2021 3:24	42.10533	-70.13983	42.10833	-70.16150	20.0013	1.0486	
214	4/24/2021 5:17	42.11200	-70.09783	42.11250	-70.11983	19.9921	1.0001	40.46
215	4/24/2021 7:17	42.16617	-70.03150	42.17500	-70.05033	19.9902	1.1144	100.81
217	4/24/2021 9:23	42.11800	-70.25000	42.11467	-70.27417	19.9697	1.1622	63.20
218	4/24/2021 12:02	42.11867	-70.51717	42.10800	-70.53367	19.9938	1.0730	35.57

Table 1: Station report from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
220	4/24/2021 14:31	42.21517	-70.41583	42.21567	-70.43700	19.9890	0.9514	69.20
222	4/24/2021 17:12	42.28200	-70.46967	42.28833	-70.49000	19.9841	1.0957	81.73
223	4/24/2021 20:14	42.19617	-70.55733	42.20750	-70.57433	19.9889	1.1221	37.26
224	4/24/2021 22:06	42.22850	-70.60500	42.24083	-70.62033	19.9801	1.1523	33.83
225	4/24/2021 23:44	42.30567	-70.66767	42.29283	-70.65367	20.0125	1.1248	46.05
226	4/25/2021 3:11	42.35750	-70.83383	42.37183	-70.82617	20.0026	1.0219	31.75
228	4/25/2021 6:56	42.53883	-70.72167	42.52283	-70.72067	19.9921	1.0599	40.11
229	4/25/2021 8:57	42.53750	-70.66350	42.52550	-70.67917	19.9648	1.1174	52.42
230	4/25/2021 12:23	42.47783	-70.33667	42.47083	-70.31767	20.0017	1.0577	139.40
231	4/25/2021 15:30	42.66267	-70.46533	42.66800	-70.44350	19.9903	1.1201	45.45
232	4/25/2021 17:32	42.71000	-70.51483	42.70400	-70.53533	19.9816	1.0847	81.58
233	4/25/2021 19:06	42.71150	-70.57583	42.69850	-70.56083	19.9988	1.1440	63.29
234	4/25/2021 21:05	42.78150	-70.56133	42.77883	-70.53900	19.9698	1.0585	97.61
235	4/25/2021 23:27	42.83733	-70.39867	42.84917	-70.41333	19.9937	1.1077	135.57
237	4/26/2021 1:36	42.95450	-70.44850	42.96217	-70.42867	20.0349	1.1027	108.38
238	4/26/2021 4:40	43.12283	-70.14500	43.12000	-70.16683	19.9870	1.0436	154.48
239	4/26/2021 7:26	43.33100	-70.07350	43.31483	-70.07233	19.9762	0.9912	159.93
240	4/26/2021 11:49	43.51167	-69.92133	43.50217	-69.93767	20.0096	1.0896	115.28
241	4/26/2021 17:07	43.48517	-69.40017	43.49783	-69.41300	20.0021	1.1367	150.27
242	4/26/2021 21:45	43.04883	-69.78400	43.06167	-69.79783	19.9612	1.1071	166.74
243	4/27/2021 0:10	43.05533	-69.96667	43.06817	-69.97983	20.0001	1.1221	182.37
244	4/27/2021 2:34	42.95767	-69.95667	42.97383	-69.95683	19.9949	0.9962	208.23
245	4/27/2021 6:16	42.66100	-69.79517	42.67650	-69.80233	19.9864	1.0736	242.56
246	4/27/2021 11:48	42.29117	-69.63300	42.30400	-69.64583	20.0122	1.0977	243.38
247	4/27/2021 15:59	42.00950	-69.60567	42.01767	-69.62500	19.9798	1.1234	217.92
248	4/27/2021 18:32	41.89950	-69.57333	41.91417	-69.58350	19.9700	1.1008	203.32
250	4/28/2021 0:19	41.99600	-69.97817	41.98133	-69.96883	19.9873	1.1029	29.00
251	4/28/2021 4:07	41.72200	-69.87533	41.73717	-69.87500	18.7521	0.9245	25.95
253	4/28/2021 7:34	41.60550	-69.67217	41.61400	-69.69100	19.9610	1.1155	46.68
254	4/28/2021 10:39	41.66567	-69.62500	41.67300	-69.64533	20.0525	1.1373	85.38
255	4/28/2021 13:58	41.54067	-69.41150	41.52617	-69.40383	19.9866	1.0449	69.87
256	5/13/2021 12:03	41.54450	-68.65083	41.55600	-68.63533	20.0076	1.0803	134.34
257	5/13/2021 14:22	41.64633	-68.56317	41.63433	-68.54917	19.9953	1.0696	158.15
258	5/13/2021 18:39	41.54950	-68.39217	41.53217	-68.38783	19.9997	1.1247	50.66
259	5/13/2021 21:52	41.44033	-68.10983	41.45533	-68.12017	20.1190	1.1254	48.64
262	5/14/2021 3:36	41.46283	-68.04483	41.45167	-68.02867	19.9869	1.1211	40.87

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STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
264	5/14/2021 8:15	41.72867	-67.99283	41.73817	-68.01117	20.0040	1.1161	33.14
265	5/14/2021 10:30	41.85167	-67.96083	41.86667	-67.95133	19.9969	1.1110	60.31
266	5/14/2021 13:42	42.08933	-67.69350	42.08350	-67.71267	19.9864	1.0319	178.78
267	5/14/2021 16:45	42.16050	-67.54250	42.15600	-67.52117	19.9904	1.0742	186.50
268	5/14/2021 20:44	42.05567	-67.37733	42.06950	-67.38900	19.9993	1.1021	51.47
269	5/14/2021 22:57	42.13183	-67.22300	42.13567	-67.24433	19.9817	1.0634	85.56
270	5/15/2021 1:09	42.03917	-67.19700	42.03367	-67.17667	19.9965	1.0712	51.00
271	5/15/2021 3:29	42.10383	-66.92350	42.08750	-66.92200	19.9916	1.0167	68.59
272	5/15/2021 5:53	41.93367	-66.95717	41.92050	-66.95333	18.0910	0.9660	64.70
273	5/15/2021 8:46	41.72433	-67.21967	41.73967	-67.22600	19.6501	1.0642	55.11
275	5/15/2021 12:25	41.69467	-67.42800	41.68317	-67.41233	19.9798	1.1042	44.69
276	5/15/2021 16:18	41.36067	-67.24533	41.34400	-67.24500	19.9989	1.0095	50.25
277	5/15/2021 17:46	41.37817	-67.18800	41.36217	-67.19417	20.0188	1.0877	50.53
278	5/15/2021 19:36	41.28133	-67.02800	41.27633	-67.04833	19.9992	1.0528	65.53
279	5/15/2021 21:50	41.15217	-67.17350	41.16317	-67.15783	20.0081	1.1161	61.23
280	5/15/2021 23:56	41.14633	-66.91850	41.15317	-66.89883	20.0053	1.0929	71.05
281	5/16/2021 3:02	40.84850	-66.72033	40.84000	-66.73917	20.0097	1.1281	116.41
282	5/16/2021 5:07	40.81817	-66.70450	40.82983	-66.68900	19.9998	1.0960	186.68
283	5/16/2021 7:52	40.85867	-66.62167	40.87117	-66.60750	19.9804	1.1277	245.11
284	5/16/2021 10:59	41.16300	-66.36567	41.15067	-66.38133	19.9768	1.1610	115.39
285	5/16/2021 14:56	41.44533	-66.94133	41.45700	-66.92533	19.9820	1.1261	68.07
286	5/16/2021 17:39	41.56200	-66.78600	41.57683	-66.77417	19.9860	1.1574	74.37
287	5/16/2021 19:34	41.52150	-66.64167	41.53817	-66.64200	19.9913	1.0095	79.00
288	5/16/2021 22:08	41.80717	-66.64567	41.79833	-66.66500	20.0194	1.1388	68.33
289	5/17/2021 0:10	41.81400	-66.51083	41.82933	-66.51917	19.9993	1.0913	75.03
290	5/17/2021 3:15	41.81467	-66.21733	41.82167	-66.19733	20.0153	1.1030	83.63
291	5/17/2021 5:10	41.73133	-66.28250	41.74517	-66.27033	19.9830	1.1214	86.99
292	5/17/2021 7:24	41.63817	-66.17083	41.65183	-66.18333	19.9790	1.1270	96.43
293	5/17/2021 9:52	41.49800	-66.38283	41.50633	-66.36333	19.9728	1.1286	93.65
294	5/17/2021 12:51	41.38400	-66.07583	41.39683	-66.06050	19.9950	1.1690	161.40
295	5/17/2021 15:13	41.46900	-65.95000	41.48433	-65.94017	19.9658	1.1378	297.55
296	5/17/2021 18:04	41.75933	-65.96033	41.74250	-65.95983	20.0028	1.0170	105.98
297	5/17/2021 20:45	41.88733	-65.84267	41.90383	-65.84200	20.0060	1.0094	134.33
298	5/17/2021 23:14	41.93217	-65.77650	41.94400	-65.79133	20.0118	1.0948	194.50
299	5/18/2021 2:19	42.19100	-65.77350	42.18550	-65.75367	20.0014	1.0559	224.32
300	5/18/2021 5:11	42.13583	-66.07017	42.12933	-66.04983	20.0246	1.1046	209.64

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spring multispecies bottom trawl survey, 13 March - 27 May 2021

STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
301	5/18/2021 7:38	42.26717	-66.15083	42.25050	-66.15550	20.0056	1.0709	244.94
302	5/18/2021 11:08	42.08783	-66.34400	42.10383	-66.34917	20.0088	1.0709	86.41
303	5/18/2021 13:41	42.17283	-66.51183	42.17367	-66.53400	19.9989	1.0121	190.56
304	5/18/2021 17:10	42.48483	-66.33133	42.48917	-66.35333	19.9733	1.0963	244.77
305	5/18/2021 21:19	42.46333	-66.73500	42.46517	-66.75750	19.9789	1.0413	323.36
306	5/19/2021 1:12	42.39150	-67.02767	42.38750	-67.04900	20.1808	1.0599	346.06
307	5/19/2021 4:19	42.40450	-67.33367	42.41450	-67.35183	19.9685	1.1130	335.58
308	5/19/2021 7:36	42.54733	-67.66483	42.54000	-67.68517	19.9928	1.1138	213.62
309	5/19/2021 10:21	42.54917	-67.65250	42.54367	-67.67383	19.9823	1.1105	209.83
310	5/19/2021 13:59	42.65567	-67.49833	42.66150	-67.52017	19.9746	1.1329	200.05
311	5/19/2021 17:14	42.67267	-67.29600	42.67567	-67.27333	19.9613	1.0768	227.53
312	5/19/2021 20:23	42.82433	-67.60017	42.81917	-67.57967	19.9832	1.0624	225.43
313	5/19/2021 23:04	42.95000	-67.55600	42.93383	-67.54983	19.9937	1.0933	226.15
314	5/20/2021 2:49	43.01150	-67.12117	43.02767	-67.12417	19.9853	1.0616	217.63
315	5/20/2021 4:58	43.08450	-67.10233	43.09550	-67.11883	19.9799	1.1388	182.74
316	5/20/2021 7:16	43.28933	-67.28517	43.27267	-67.28517	19.9908	0.9946	213.97
317	5/20/2021 10:11	43.37350	-67.40967	43.35667	-67.41533	19.9758	1.0905	211.70
318	5/20/2021 13:09	43.41900	-67.18517	43.42100	-67.16417	19.9938	1.0147	222.51
320	5/20/2021 19:19	43.20550	-66.92150	43.19033	-66.91700	19.9868	1.0082	172.20
321	5/20/2021 22:02	43.23933	-66.64150	43.22350	-66.65017	19.9889	1.1330	136.13
322	5/21/2021 1:04	43.53033	-66.69933	43.52400	-66.67817	19.9913	1.1100	119.95
323	5/21/2021 3:22	43.61067	-66.53900	43.62650	-66.54717	19.9864	1.1097	110.28
324	5/21/2021 7:05	43.70933	-67.09700	43.72300	-67.08500	19.9732	1.1118	133.69
325	5/21/2021 9:57	43.75750	-67.42367	43.74133	-67.42933	19.9733	1.0692	211.51
326	5/21/2021 13:27	43.96000	-67.04500	43.97283	-67.03183	19.9920	1.0910	168.74
327	5/21/2021 16:32	44.20750	-67.11250	44.22267	-67.10250	19.9880	1.1270	118.92
328	5/21/2021 19:06	44.39833	-66.93450	44.38217	-66.93867	19.9821	1.0663	118.78
329	5/21/2021 22:09	44.38283	-67.13367	44.37733	-67.15533	19.9661	1.0938	144.73
330	5/22/2021 0:54	44.41967	-67.44867	44.41400	-67.47133	19.9812	1.1243	83.09
331	5/22/2021 3:02	44.28200	-67.66100	44.29333	-67.64400	20.0045	1.1227	97.20
332	5/22/2021 6:31	44.08317	-67.78350	44.06733	-67.77850	19.9641	1.0344	132.33
333	5/22/2021 9:27	44.06767	-68.18933	44.05450	-68.20267	19.9764	1.1176	98.19
334	5/22/2021 13:01	43.88533	-68.21450	43.87233	-68.22683	19.9845	1.0755	196.35
335	5/22/2021 17:12	43.78433	-68.62183	43.76867	-68.62633	19.9905	1.0448	123.94
336	5/22/2021 20:51	43.67983	-68.11183	43.66850	-68.09467	19.9709	1.1481	176.94
337	5/22/2021 23:46	43.45583	-68.17100	43.43933	-68.17433	19.9958	1.0420	185.62

Table 1: Station report from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

STATION	START TRAWL (GMT)	SET LAT	SET LON	END LAT	END LON	TOW DUR (min)	TOW DIST (nm)	DEPTH MEAN (m)
338	5/23/2021 2:47	43.53533	-68.30133	43.52500	-68.28400	19.9912	1.0922	187.26
339	5/23/2021 5:32	43.44750	-68.55467	43.43250	-68.56400	19.9816	1.0964	157.94
340	5/23/2021 7:24	43.41683	-68.65233	43.40450	-68.66700	19.9836	1.1012	138.31
341	5/23/2021 10:23	43.20900	-68.86783	43.20233	-68.88867	19.9888	1.1098	173.71
343	5/23/2021 14:57	43.09667	-68.59033	43.08250	-68.57967	20.0029	1.0820	182.56
344	5/23/2021 17:54	43.11733	-68.32350	43.10183	-68.32967	19.9913	1.0776	202.53
345	5/23/2021 21:07	42.89633	-68.38917	42.91233	-68.39483	19.9796	1.0763	176.92
346	5/24/2021 0:10	42.91633	-68.74383	42.93067	-68.75183	20.0007	1.0296	203.36
347	5/24/2021 3:02	42.92350	-69.07900	42.93717	-69.09000	19.9973	1.0701	187.80
348	5/24/2021 5:26	42.79450	-69.26550	42.80967	-69.27383	19.9682	1.0900	80.54
349	5/24/2021 9:28	42.71600	-68.70583	42.73200	-68.69750	19.9809	1.1205	194.34
350	5/24/2021 13:00	42.57483	-68.31233	42.58683	-68.29850	20.0026	1.0653	192.29
351	5/24/2021 16:11	42.51450	-67.96083	42.52367	-67.94233	20.0108	1.1055	218.86
352	5/24/2021 19:33	42.37250	-68.29383	42.38083	-68.27433	19.9782	1.1025	195.37
353	5/24/2021 22:40	42.48617	-68.60233	42.49667	-68.58517	20.0130	1.1290	198.94
354	5/25/2021 1:50	42.42983	-68.86400	42.41600	-68.87567	20.0037	1.0876	216.96
355	5/25/2021 4:19	42.51367	-68.99483	42.49733	-68.99467	19.9730	1.0115	219.80
356	5/25/2021 7:59	42.33317	-69.27600	42.31817	-69.28583	19.9705	1.1287	229.54
357	5/25/2021 12:46	42.22767	-68.64383	42.21550	-68.65750	19.9520	1.0979	194.21
358	5/25/2021 16:08	41.99467	-68.49317	41.97883	-68.49850	20.0080	1.0686	169.97
359	5/25/2021 18:56	42.05833	-68.77100	42.04183	-68.76567	20.0191	1.0836	151.78
360	5/25/2021 22:08	42.06250	-69.01800	42.04767	-69.02800	20.0949	1.1325	137.52
361	5/26/2021 9:37	41.38917	-69.48883	41.38400	-69.47000	18.8584	1.0112	32.54

Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL	
97	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	5	19
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
99	0	0	0	0	0	0	0	0	10	0	2	0	0	0	0	0	0	0	0	0	0	0	0	18	30
100	0	0	0	0	0	0	0	0	332	0	3	0	0	0	2	0	8	6	0	0	0	0	0	70	421
101	0	0	0	0	0	0	0	0	626	0	0	0	0	2	1	0	0	0	0	0	0	0	0	22	651
102	0	0	0	0	0	0	0	0	142	0	0	0	0	0	0	0	6	0	0	0	0	0	0	34	182
103	0	0	0	0	0	0	0	0	3	0	6	0	0	1	0	0	0	0	0	0	5	0	0	3	18
104	0	0	0	0	4	1	0	0	3	0	4	0	0	1	0	0	1	0	0	0	0	0	0	18	32
105	0	0	0	0	0	0	0	0	0	0	4	0	0	2	0	0	0	0	0	0	0	0	0	13	19
106	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	11	0	0	0	0	0	0	5	17
107	0	0	0	0	0	0	0	0	0	0	4	0	0	2	0	0	0	1	0	0	0	0	0	3	10
108	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	2	5
109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
110	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	5	9
111	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2
113	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5	10
116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	8	0	0	0	0	0	0	0	9
118	0	0	0	0	4	1	0	3	2	0	0	0	0	0	12	0	0	0	134	0	17	0	41	214	
119	0	0	0	1	37	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0	15	1	56	118	
121	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	22	194	322	
122	0	0	0	0	0	0	0	5	3	0	0	0	0	0	4	0	0	0	0	0	233	19	37	301	
123	0	0	0	0	10	0	0	16	5	0	0	0	0	0	12	0	0	0	15	0	40	8	122	228	
124	0	0	0	0	9	0	0	0	53	0	0	0	0	0	17	0	0	0	41	0	7	0	52	179	
125	0	0	0	0	19	3	0	5	12	0	0	0	0	0	14	0	0	0	14	0	2	0	182	251	
126	0	0	0	0	15	5	0	16	3	0	0	0	1	0	42	0	0	0	5	0	0	0	131	218	
127	0	0	0	0	38	2	0	1	307	0	0	0	0	0	35	0	0	0	3	0	0	0	428	814	
128	0	0	0	0	10	12	0	20	16	0	0	0	0	0	19	0	1	0	10	0	1	0	162	251	
129	0	0	0	0	17	5	0	1	1927	0	0	0	0	0	23	0	0	0	4	0	4	0	45	2026	
130	0	0	0	0	17	6	0	10	1897	0	0	0	0	0	5	0	0	0	3	0	4	0	33	1975	
131	0	0	0	0	6	2	0	4	1098	0	0	0	0	0	6	0	0	0	1	3	1	0	23	1144	
132	0	0	0	0	1	1	0	1	24	0	0	0	0	0	4	0	0	169	0	0	1	0	20	221	
133	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	0	5	11	
134	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	1	0	0	1	0	11	19	
135	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	7	0	3	0	10	30	
136	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	1	0	1	0	1	8	
137	0	0	0	0	0	0	0	0	0	0	3	0	0	2	7	0	0	0	1	0	0	0	3	16	
138	0	0	0	0	9	0	0	3	6	0	3	0	0	0	4	0	8	2240	0	0	1	0	11	2285	

Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL
139	0	0	0	0	82	13	0	6	670	0	0	0	0	2	12	0	0	32	11	0	1	0	92	921
140	0	0	0	0	41	3	0	33	675	0	0	0	0	0	31	0	0	1	4	0	0	0	148	936
141	0	0	0	0	49	1	0	5	2424	0	0	0	0	0	19	0	0	0	8	0	9	0	271	2786
142	0	0	0	0	7	5	0	9	16	0	0	0	0	0	18	0	0	0	9	0	36	0	45	145
143	0	0	0	0	14	8	0	9	586	0	0	0	1	0	0	0	0	0	53	0	0	27	104	802
144	0	0	0	0	10	0	0	16	161	0	0	0	0	0	6	0	0	0	14	0	47	4	112	370
145	0	0	0	0	0	0	0	6	166	0	0	0	0	0	0	0	0	0	133	0	66	11	74	456
146	0	0	0	3	0	0	0	0	7	0	0	0	0	0	10	0	0	0	125	0	37	1	88	271
147	0	0	0	0	1	0	0	12	5	0	0	0	0	0	0	0	0	0	7	0	4	0	30	59
148	0	0	0	0	2	0	0	6	1628	0	0	0	0	0	45	0	0	0	37	0	16	0	79	1813
150	0	0	0	0	2	0	0	15	2	0	0	0	0	0	0	0	0	0	9	0	5	3	115	151
151	0	0	0	10	12	8	0	107	112	0	0	0	15	0	0	0	0	0	4	5	1	4	373	651
152	0	0	0	0	10	0	0	17	2	0	0	0	1	0	4	0	0	0	32	0	70	8	100	244
153	0	0	0	0	44	0	0	28	0	0	0	0	0	0	33	0	0	0	9	0	25	1	135	275
154	0	0	0	0	8	1	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0	40	54
155	0	0	0	0	8	1	0	11	0	0	0	0	0	4	6	0	0	1	0	0	1	0	43	75
156	0	0	0	0	28	32	0	0	18	0	0	0	0	1	2	0	0	0	2	0	3	0	68	154
157	0	0	0	0	6	5	0	1	193	0	0	0	0	0	5	0	0	0	1	0	0	0	22	233
159	0	0	0	0	0	0	0	0	0	0	8	0	0	2	0	0	0	0	0	0	0	0	3	13
160	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	4	0	0	78	84
161	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	33	35
162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8	10
163	0	0	0	0	0	0	0	0	0	0	3	0	0	3	2	0	0	0	0	0	0	0	10	18
164	0	0	0	0	37	11	0	0	0	0	0	0	0	3	2	0	1	0	0	0	0	0	44	98
165	0	0	0	0	6	2	0	0	0	0	4	0	0	4	1	0	0	0	1	0	0	0	10	28
166	0	0	0	0	7	0	0	0	0	0	1	0	0	0	1	0	22	0	0	0	0	0	7	38
167	0	0	0	0	5	1	0	0	0	0	0	0	0	1	0	0	0	0	3	0	1	0	21	32
168	0	0	0	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	19	24
169	0	10	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	9	22
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	8	13
171	0	0	0	0	6	32	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	40	80
172	0	0	0	2	110	1	0	38	1	0	0	0	0	0	0	0	0	0	103	0	22	1	528	806
173	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	131	0	10	1	107	292
174	0	0	0	0	36	6	0	38	0	0	0	0	0	19	14	0	0	0	3	0	6	0	159	281
175	0	0	0	0	21	11	0	5	0	0	0	0	0	9	2	0	0	0	0	0	5	0	161	214
177	0	0	0	5	69	5	0	8	0	0	0	0	0	0	0	0	0	1	109	0	218	7	118	540
178	0	0	0	0	1	1	0	0	349	0	0	0	0	0	0	0	0	0	2	0	25	1	87	466
179	0	0	0	0	8	5	0	34	0	0	0	0	6	0	0	0	0	0	0	0	3	1	70	127

Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL
180	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	148	40	37	229
182	0	0	0	1	37	20	0	27	0	0	0	0	0	0	0	0	0	0	2	0	6	1	499	593
183	0	0	0	0	154	20	0	20	0	0	0	0	1	2	1	0	0	0	0	0	1	0	183	382
184	0	0	0	0	22	13	0	0	0	0	0	0	1	0	0	0	0	0	3	0	21	1	103	164
185	0	0	0	1	25	3	0	0	0	0	0	0	1	4	0	0	0	0	0	3	5	0	49	91
186	0	5	0	2	18	13	0	12	0	0	0	0	0	0	0	0	0	0	2	0	4	0	399	455
187	0	3	0	0	4	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	61
189	0	6	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	11
190	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	55	58
192	0	0	0	0	7	1	0	0	2	0	0	0	0	5	0	0	0	0	0	0	0	0	4	19
193	0	0	0	0	4	1	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	7	17
196	0	0	0	0	7	1	0	0	0	0	0	0	0	14	1	0	0	0	0	0	0	0	4	27
197	0	0	0	0	2	1	0	0	0	2	0	0	0	10	0	0	0	0	0	0	2	0	7	24
198	0	0	0	0	1	1	0	0	4	1	0	1	0	5	0	0	0	0	0	0	0	0	4	17
199	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	96	0	0	0	0	1	102
200	2	15	0	0	1	1	0	0	0	4	1	2	0	0	0	0	0	0	0	0	0	0	9	35
201	0	1	0	0	1	2	0	0	0	1	2	0	0	0	0	0	0	0	0	1	0	0	18	26
202	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5
203	19	19	0	0	118	13	343	4	0	0	0	1	0	0	0	0	0	1	0	15	0	0	112	645
204	0	0	0	0	1	0	0	0	0	0	5	0	0	1	0	0	0	21	1	0	0	0	55	84
205	0	0	0	0	1	0	0	0	0	0	9	0	0	0	0	0	6	10	0	0	0	0	58	84
206	0	0	0	0	1	0	0	5	0	0	11	0	0	0	0	0	370	0	0	0	0	0	40	427
207	0	0	0	0	2	1	0	0	0	0	9	0	0	0	0	0	2	0	0	6	0	0	32	52
208	1	0	0	0	2	1	0	1	0	3	9	0	0	0	0	0	0	0	0	31	0	0	566	614
210	0	0	0	0	8	1	0	0	0	0	16	4	0	0	0	0	0	0	0	17	0	0	29	75
212	1	0	0	0	89	0	0	0	0	2	14	0	0	6	0	0	6	6	0	1	0	0	210	335
213	0	0	0	0	74	0	0	0	0	8	13	0	0	2	0	0	9	2	0	1	0	0	79	188
214	12	0	0	0	22	2	0	0	0	18	50	0	0	0	0	0	2	1	0	51	0	0	91	249
215	11	31	0	0	140	26	0	2	0	87	5	6	0	0	0	0	1	1	0	8	0	0	184	502
217	2	0	0	0	85	3	0	1	0	103	99	2	0	0	0	0	111	2	0	3	0	0	312	723
218	20	0	0	0	0	0	0	0	0	6	23	0	0	0	0	0	1	0	0	20	0	0	269	339
220	0	0	0	0	13	2	0	1	0	3	18	1	0	0	0	0	0	0	0	23	0	0	52	113
222	0	0	0	0	36	1	3	1	0	22	61	18	0	0	0	0	0	0	0	5	0	0	105	252
223	83	0	0	0	0	0	0	0	0	20	136	1	0	0	0	0	1113	0	0	4	0	0	205	1562
224	33	2556	0	0	0	0	0	0	0	6	93	0	0	0	0	0	4	0	0	12	0	0	268	2972
225	15	14	0	0	56	4	0	8	0	225	68	5	0	1	0	0	16	0	0	6	0	0	98	516
226	18	0	0	0	4	0	0	0	0	3	49	0	0	2	0	0	0	0	0	50	0	0	114	240
228	2	0	0	0	51	1	1	5	0	22	40	1	0	6	0	0	37	1	0	87	0	0	81	335

Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL
229	7	91	0	0	53	7	2	5	0	328	130	29	0	3	0	0	10	1	0	42	0	0	136	844
230	0	18	5	4	22	27	281	26	0	73	25	37	10	1	2	0	0	0	0	23	0	0	156	710
231	43	443	0	0	1	0	1	1	0	3	108	0	0	0	0	0	0	0	0	13	0	0	69	682
232	3	6	0	0	9	2	0	0	0	61	17	15	0	0	0	0	160	2	0	42	0	0	7	324
233	0	0	0	0	11	1	4	1	0	35	12	7	0	0	0	0	60	2	0	140	0	0	29	302
234	0	7	0	0	23	7	0	2	0	21	5	36	0	0	0	0	1	0	0	21	0	0	78	201
235	0	8	0	4	88	22	6	22	0	18	0	40	23	0	0	0	0	0	0	23	0	0	76	330
237	1	15	0	6	56	7	5	5	0	15	0	18	1	0	0	0	0	0	0	39	0	0	58	226
238	0	27	0	1	482	26	7	10	0	2	0	14	5	0	0	0	2	0	0	7	0	0	117	700
239	0	2	0	3	151	31	0	4	0	1	1	3	3	0	0	0	0	1	0	8	0	0	57	265
240	0	2	0	1	170	1	0	0	0	5	4	7	0	0	0	0	2	0	0	28	0	0	32	252
241	0	2	0	0	115	8	0	3	0	0	0	7	1	0	0	0	2	0	0	5	0	0	23	166
242	0	9	0	0	144	47	1	41	19	0	0	15	35	0	0	0	1	0	0	4	0	0	58	374
243	0	0	0	18	384	191	5	25	0	2	0	1	19	0	0	0	0	0	0	2	0	0	204	851
244	0	20	0	20	112	84	5	23	261	1	0	9	7	0	0	0	2	0	0	0	0	0	94	638
245	0	7	0	3	573	10	9	35	5	0	0	1	1	0	0	0	1	0	0	7	0	0	18	670
246	0	11	9	31	123	40	32	137	19	0	0	0	2	0	0	0	1	0	0	0	0	0	50	455
247	0	17	0	1	57	37	43	40	18	0	0	3	12	0	0	0	0	0	0	0	0	0	71	299
248	0	6	0	9	37	102	6	6	0	0	0	4	2	0	0	0	0	0	0	4	0	0	127	303
250	5	0	0	0	9	0	0	0	0	0	5	0	0	0	0	0	163	192	0	0	0	0	14	388
251	0	0	0	0	2	0	0	0	0	2	1	0	0	0	0	0	1	38	0	1	0	0	19	64
253	0	0	0	0	72	1	0	0	0	1	0	0	0	0	0	0	37	47	0	1	0	0	16	175
254	1	2	0	0	22	1	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	72	116
255	2	3	0	0	5	0	0	0	0	2	1	0	0	0	0	0	2	31	0	2	0	0	35	83
256	3	18	0	5	35	16	0	14	426	0	0	23	3	0	0	0	9	0	0	14	0	0	122	688
257	0	34	0	5	48	80	9	5	3982	0	0	0	3	0	0	0	12	4	0	63	0	1	171	4417
258	0	0	0	0	52	2	0	0	109	0	0	0	0	0	0	0	0	0	0	0	1	0	45	209
259	0	3	0	0	13	1	0	0	259	0	0	1	0	1	0	0	27	1	0	0	17	0	41	364
262	6	0	0	0	15	2	0	0	198	0	1	0	0	16	0	0	0	0	0	0	3	0	571	812
264	17	0	0	0	2	0	0	0	115	0	20	1	0	6	0	0	0	0	0	2	16	0	143	322
265	0	77	0	0	20	16	0	0	186	1	1	5	0	1	0	0	5	174	0	4	1	0	36	527
266	0	30	0	14	312	51	6	50	153	0	0	1	4	0	0	0	1	0	0	249	4	0	97	972
267	0	445	0	18	566	24	36	18	1296	0	0	0	1	0	0	0	0	0	1	14	9	0	81	2509
268	196	2992	4	0	1	0	0	0	12	0	51	0	0	0	0	0	0	0	0	9	138	0	44	3447
269	17	424	0	0	0	1	0	41	7	0	32	0	0	0	0	0	0	2	0	8	14	4	252	802
270	46	195	0	0	1	0	0	13	4	0	108	0	0	0	0	0	6	0	0	2	39	0	96	510
271	40	107	2	0	2	0	0	0	0	12	12	0	0	0	0	0	2	1	0	0	0	0	197	375
272	89	249	2	0	0	1	0	0	88	1	190	1	0	0	0	0	0	0	0	42	0	0	391	1054

Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL	
273	11	35	0	0	1	0	0	0	23	0	9	1	0	1	0	0	3	0	0	0	0	0	0	14	98
275	0	28	0	0	0	0	0	0	17	0	2	0	0	2	0	0	7	0	0	0	2	0	0	23	81
276	0	7	0	0	2	0	0	0	9	0	1	0	0	0	0	0	0	0	0	0	0	0	1	7	27
277	0	218	0	0	5	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	4	0	2	232
278	12	618	0	1	2	0	0	0	118	5	1	0	0	0	0	0	0	0	0	0	0	1	0	47	805
279	0	9	0	0	1	0	0	5	44	0	0	0	0	1	0	0	0	0	0	0	0	0	3	19	82
280	10	0	0	1	35	7	0	6	50	4	0	1	0	4	0	0	0	0	0	0	0	0	16	62	196
281	0	0	0	0	14	4	0	0	0	0	0	0	0	0	0	0	0	0	18	0	5	3	25	69	
282	0	0	0	1	9	15	0	12	0	0	0	0	0	0	0	0	0	0	1	13	0	2	98	151	
283	0	0	0	9	33	8	0	24	0	0	0	0	0	0	0	0	0	0	0	17	0	1	40	132	
284	0	0	0	0	7	3	0	8	2	0	0	0	0	0	0	0	0	1	1	0	1	1	25	49	
285	5	282	0	0	0	0	0	0	3	1	0	0	0	1	3	0	0	6	0	9	0	0	26	336	
286	41	693	0	0	0	0	0	24	1839	44	65	0	0	2	0	0	0	0	0	1	0	0	161	2870	
287	22	19	0	0	0	0	0	8	8	6	0	0	0	1	0	0	0	0	0	0	0	0	13	77	
288	8	131	0	0	1	0	0	0	1056	4	5	0	0	1	0	0	0	1	0	0	0	22	4	1233	
289	7	58	0	0	7	0	0	0	75	8	39	0	0	0	0	0	0	4	0	0	0	2	42	242	
290	0	42	0	0	8	0	0	0	6	5	18	0	0	1	0	0	3	0	0	12	0	1	63	159	
291	3	17	0	1	38	1	0	14	6	5	8	0	0	1	0	0	0	0	0	6	0	0	91	191	
292	0	0	0	1	86	7	0	7	0	6	0	0	0	1	0	0	0	0	0	14	1	3	78	204	
293	0	0	0	0	40	9	0	0	0	1	0	0	0	0	0	0	0	8	0	4	0	1	34	97	
294	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	26	0	689	14	731	
295	0	0	0	8	186	27	30	6	0	0	0	0	14	0	0	0	0	0	0	352	0	3	67	693	
296	0	13	0	0	3	4	0	0	0	9	0	0	0	0	0	0	0	0	2	91	0	0	58	180	
297	3	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	0	0	17	240	
298	0	23	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	13	29	87	
299	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	1	18	28	
300	19	11	0	6	10	4	0	23	26	0	0	0	0	0	0	0	0	0	0	48	0	1	37	185	
301	0	6	0	0	2	2	0	0	86	0	0	0	0	0	0	0	0	0	0	39	0	1	39	175	
302	1	167	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	0	0	112	302	
303	0	5	0	2	37	13	0	13	0	0	0	0	0	0	0	0	19	0	0	129	9	0	79	306	
304	12	10	2	4	68	1	0	0	412	0	0	0	0	0	0	0	0	0	0	45	0	0	14	568	
305	0	0	14	17	202	13	1	104	107	0	0	0	0	0	0	0	0	0	0	80	0	2	58	598	
306	0	5	0	80	59	10	5	98	872	0	0	0	0	0	0	0	1	0	0	151	0	0	85	1366	
307	0	0	0	110	51	5	5	76	7457	0	0	0	0	0	0	0	1	0	0	51	0	0	203	7959	
308	0	12	6	74	189	74	38	37	1426	0	0	0	0	0	0	0	1	0	0	3	0	0	176	2036	
309	0	11	0	46	133	30	499	26	1757	0	0	0	1	0	0	0	3	0	0	10	0	0	104	2620	
310	0	2	0	33	38	25	30	12	3048	0	0	0	0	0	0	0	2	0	0	10	0	0	51	3251	
311	0	22	48	43	61	25	62	37	337	0	0	0	0	0	0	0	1	0	0	12	0	0	216	864	

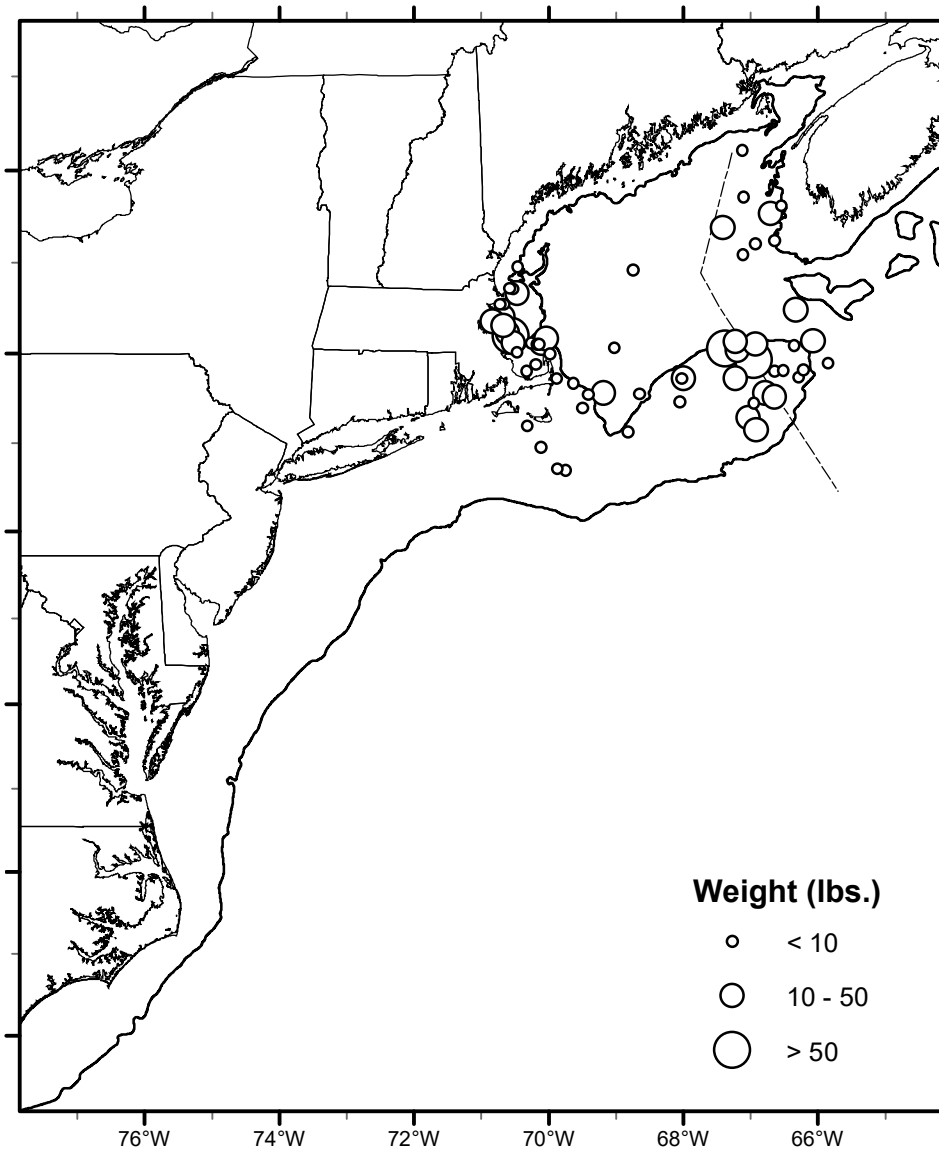
Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL
312	0	53	16	62	38	71	5	15	2545	0	0	0	3	0	0	0	0	0	0	51	0	0	207	3066
313	0	5	0	34	31	27	1	42	250	0	0	0	2	0	0	0	1	0	0	11	0	0	83	487
314	0	0	0	94	220	49	125	27	1454	0	0	0	0	0	0	0	2	0	0	28	0	0	113	2112
315	8	5	12	24	79	39	46	7	1250	0	0	0	1	0	0	0	1	0	0	8	0	0	62	1542
316	0	0	0	49	230	28	5	10	16	0	0	0	1	0	0	0	3	2	0	11	0	0	169	524
317	11	7	0	9	72	18	13	15	8	0	0	2	2	0	0	0	1	2	0	15	0	0	32	207
318	0	2	19	16	17	16	136	31	138	0	0	0	6	0	0	0	0	0	0	6	0	0	51	438
320	8	17	0	2	37	7	9	4	974	0	0	0	1	0	0	0	0	0	0	26	15	0	17	1117
321	7	112	0	5	30	28	5	1	21	0	77	2	42	0	0	0	0	0	0	68	2	0	58	458
322	27	12	0	2	44	34	4	0	561	0	8	0	0	0	0	0	0	2	0	11	2	0	121	828
323	1	35	0	1	25	6	2	2	2	2	27	2	6	0	0	0	11	8	0	54	1	0	92	277
324	2	5	1	8	76	15	9	0	0	0	0	0	2	0	0	0	1	0	0	10	0	0	30	159
325	0	27	0	26	109	12	403	14	195	0	0	0	0	0	0	0	1	0	0	15	0	0	20	822
326	0	15	1	14	47	27	19	0	13	0	0	0	1	0	0	0	9	0	0	19	0	0	41	206
327	3	7	1	2	161	2	2	14	0	0	1	1	1	0	0	0	2	0	0	9	0	0	21	227
328	0	1	0	18	53	23	0	6	0	0	6	1	11	0	0	0	1	0	0	37	0	0	61	218
329	0	0	0	11	34	70	0	13	0	0	23	2	11	0	0	0	2	0	0	19	0	0	101	286
330	0	1	0	3	244	13	0	0	0	0	43	1	0	0	0	0	0	0	0	108	0	0	55	468
331	0	0	0	4	207	3	0	2	0	0	7	9	0	0	0	0	15	0	0	22	0	0	11	280
332	0	0	0	5	315	17	0	1	0	0	1	9	1	0	0	0	1	0	0	23	0	0	38	411
333	0	18	0	1	280	1	0	9	0	1	6	1	0	1	0	0	4	0	0	179	0	0	38	539
334	0	1	0	5	50	57	2	11	0	0	0	2	28	0	0	0	0	0	0	39	1	0	82	278
335	0	0	0	0	131	2	0	3	0	1	1	0	0	0	0	0	0	0	0	40	0	0	49	227
336	0	6	0	6	52	15	0	12	9	0	0	3	16	0	0	0	6	0	0	5	0	0	30	160
337	0	6	0	21	98	35	28	15	139	0	0	3	37	0	0	0	5	1	0	2	1	0	74	465
338	0	17	0	21	172	29	4	4	8	0	0	1	16	0	0	0	3	0	0	17	0	0	38	330
339	0	0	0	9	407	54	0	19	0	0	0	5	19	0	0	0	0	0	0	3	0	0	98	614
340	0	4	0	3	48	25	0	18	0	0	1	4	28	0	0	0	1	0	0	11	0	0	34	177
341	0	4	0	40	134	38	427	35	596	0	0	6	21	0	0	0	1	0	0	8	0	0	55	1365
343	0	16	5	28	148	22	120	55	511	0	0	5	4	0	0	0	0	0	0	8	0	0	62	984
344	0	10	0	39	32	42	663	16	663	0	0	11	1	0	0	0	0	0	0	7	0	0	95	1579
345	0	2	3	13	368	9	40	28	1053	0	0	2	2	0	0	0	2	0	0	13	0	0	62	1597
346	0	0	7	27	124	120	22	18	305	0	0	1	0	0	0	0	0	0	0	9	0	0	193	826
347	0	0	0	19	285	72	206	71	147	0	0	20	2	0	0	0	0	0	0	5	0	0	129	956
348	0	68	0	0	4	11	0	6	54	28	0	3	0	0	0	0	0	0	0	4	0	0	19	197
349	0	12	0	68	244	632	148	47	2934	0	0	0	1	0	0	0	1	0	0	10	0	0	654	4751
350	0	24	4	3	123	9	23	18	713	0	0	1	1	0	0	0	5	0	0	8	0	0	30	962
351	0	128	0	65	51	41	1810	55	354	0	0	2	0	0	0	0	1	0	0	0	0	0	91	2598

Table 2: Catch summary (lbs) of important species by haul from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	RED HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	BLUEFISH	ATLANTIC HERRING	ATLANTIC MACKEREL	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL OTHER	TOTAL ALL	
352	0	2	32	22	122	23	314	8	78	0	0	2	1	0	0	0	3	0	0	0	0	0	0	73	680
353	0	7	35	24	231	34	117	29	2102	0	0	0	0	0	0	0	1	0	0	15	0	0	0	89	2684
354	0	23	0	73	38	55	5	22	107	0	0	7	2	0	0	0	3	0	0	3	0	0	0	80	418
355	0	18	0	13	128	146	33	27	244	0	0	2	2	0	0	0	0	0	0	2	0	0	0	175	790
356	0	22	0	53	266	39	30	51	623	0	0	2	1	0	0	0	0	0	0	2	0	0	0	58	1147
357	0	1	0	6	125	26	23	24	386	0	0	0	0	0	0	0	11	0	0	5	0	0	0	50	657
358	0	3	0	1	25	13	1	10	590	0	0	14	2	0	0	0	1	0	0	0	0	0	0	104	764
359	0	27	0	0	4	5	36	21	147	0	0	5	3	0	0	0	21	1	0	0	0	0	0	72	342
360	1	13	0	1	15	3	113	18	1127	0	0	3	1	0	0	0	9	1	0	2	0	0	0	16	1323
361	1	0	0	0	9	0	0	0	4	1	1	0	0	0	0	0	1	0	0	4	0	0	0	46	67
Total	947	11270	228	1561	13483	3605	6424	2968	105879	1252	1886	458	510	221	942	4	2478	3406	1675	3344	1955	969	34396	199567	

ATLANTIC COD



HADDOCK

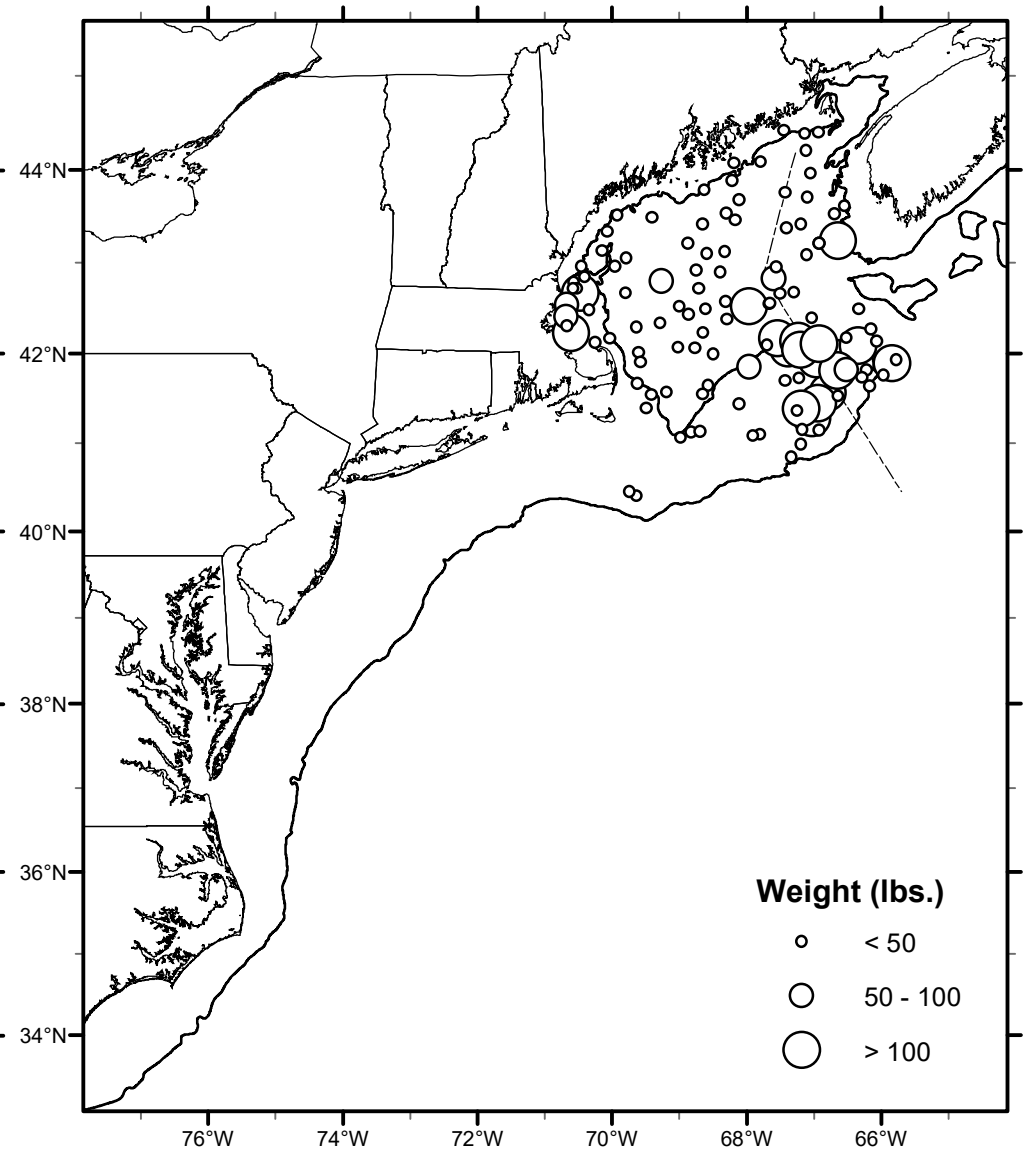
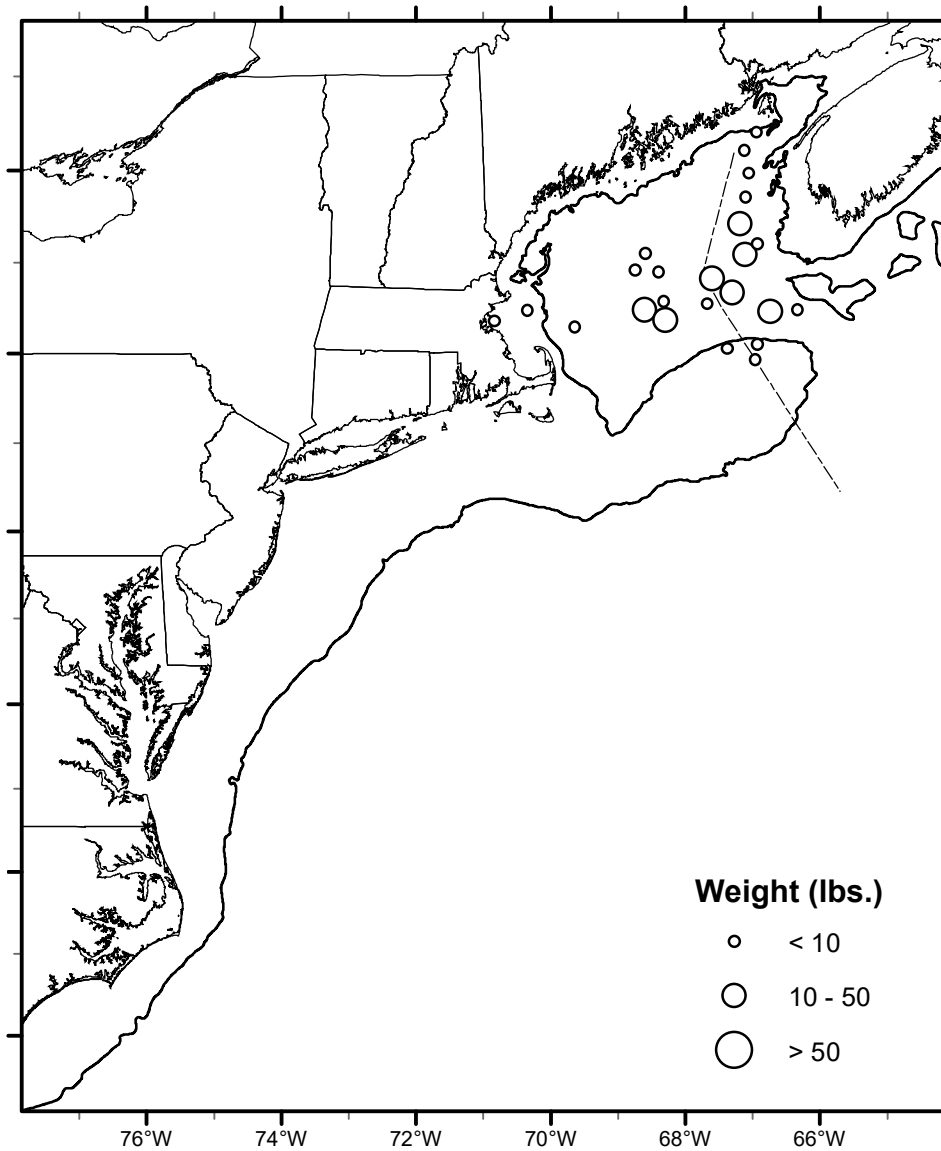


Figure 3: Total number of Atlantic cod (left panel) and haddock (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

POLLOCK



BLUEFISH

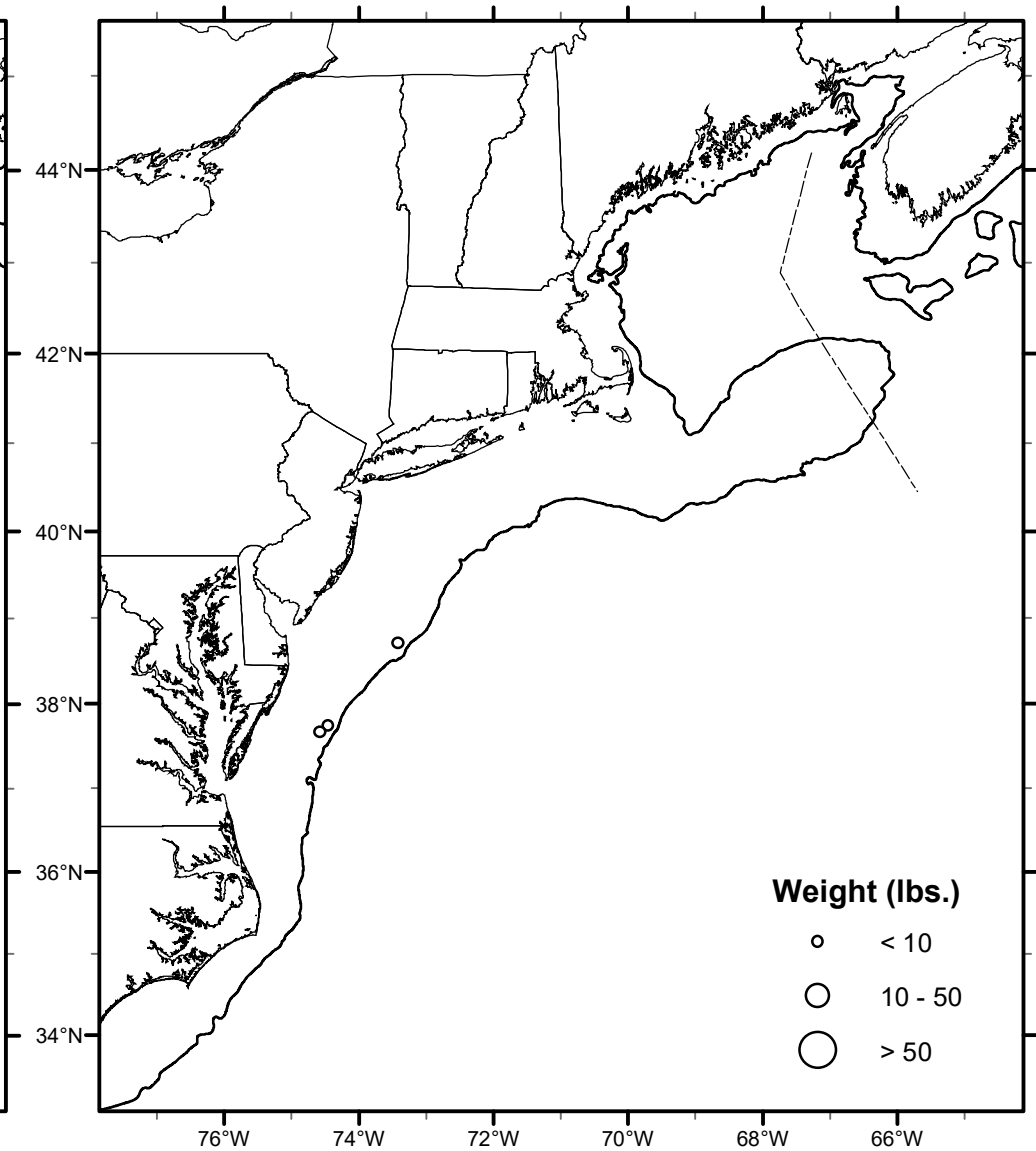
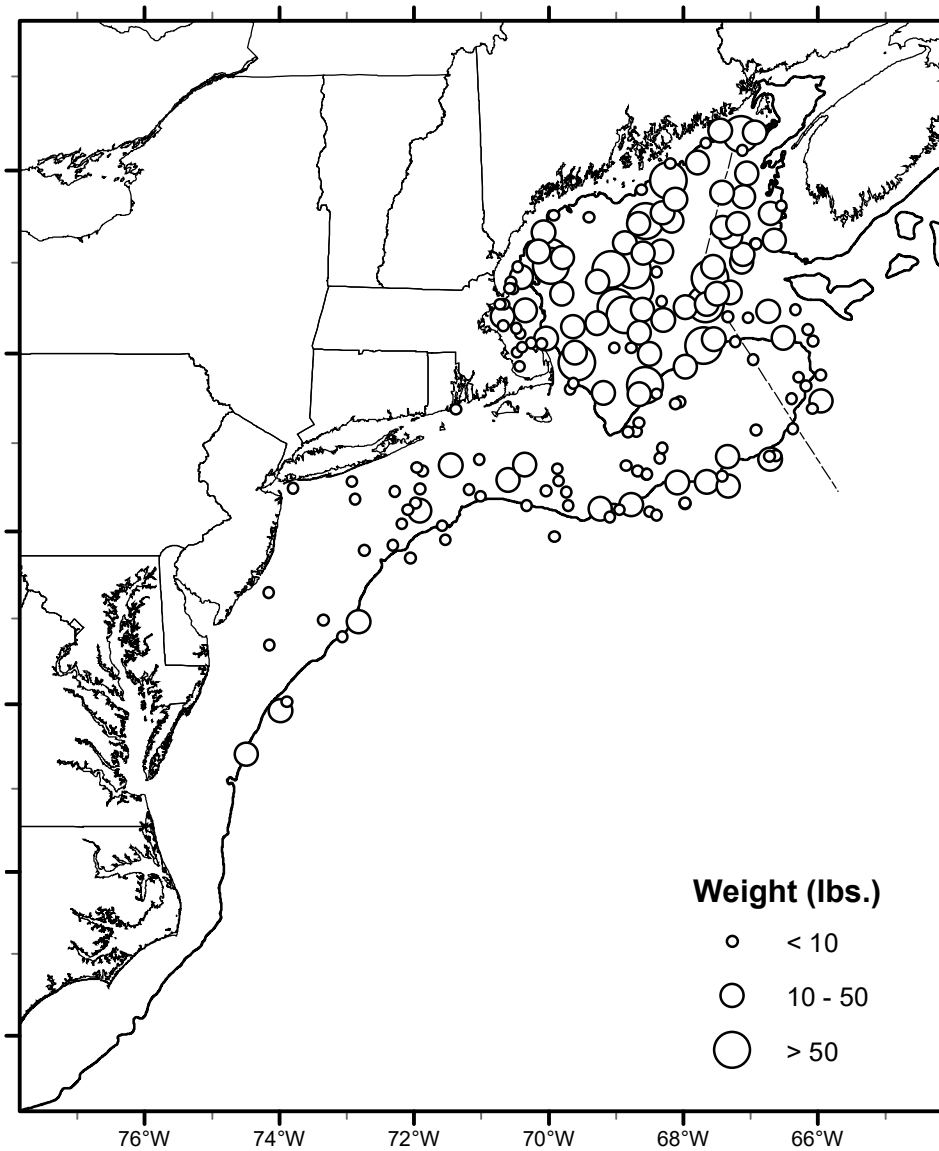


Figure 4: Total number of pollock (left panel) and bluefish (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

RED HAKE



WHITE HAKE

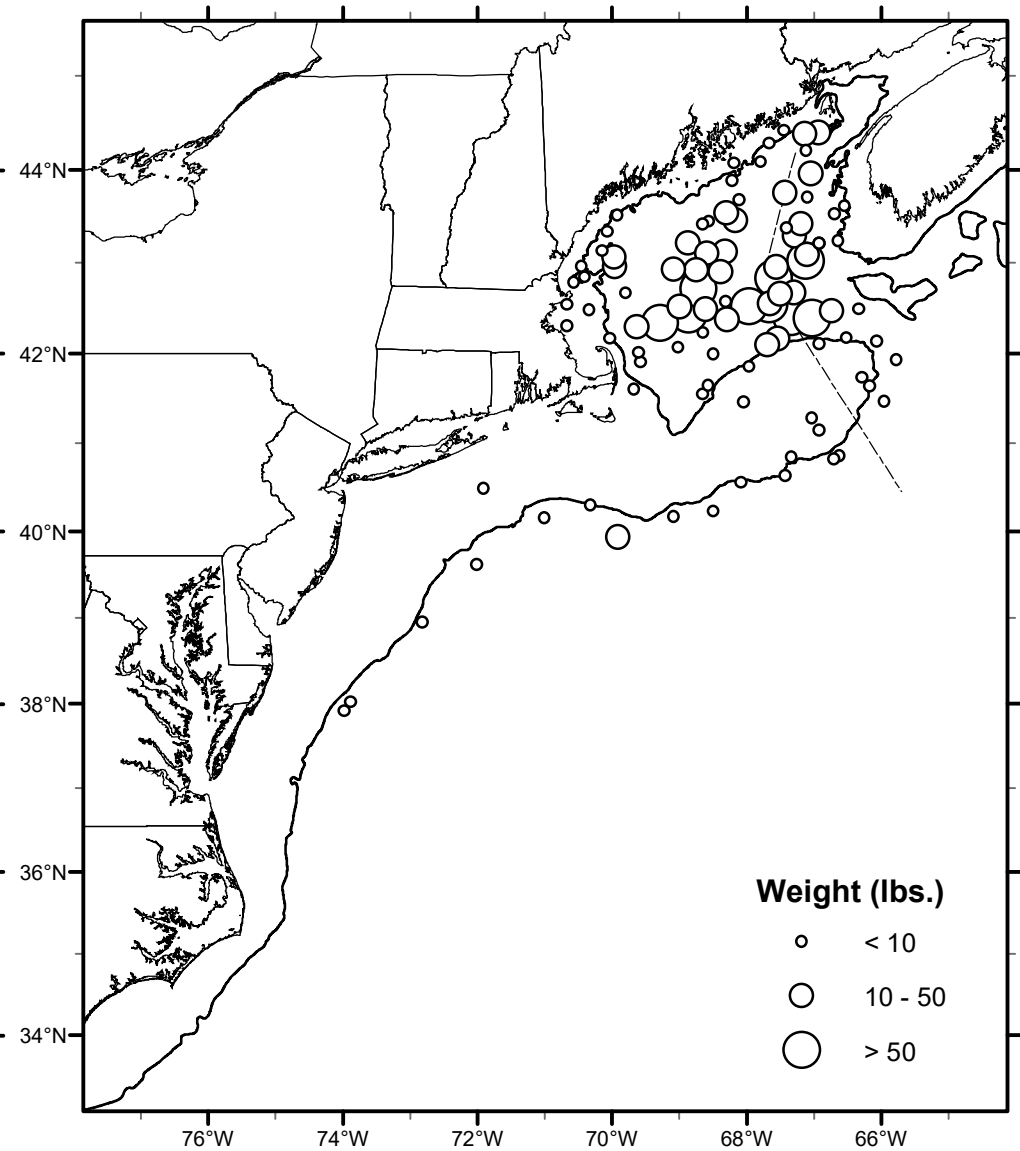
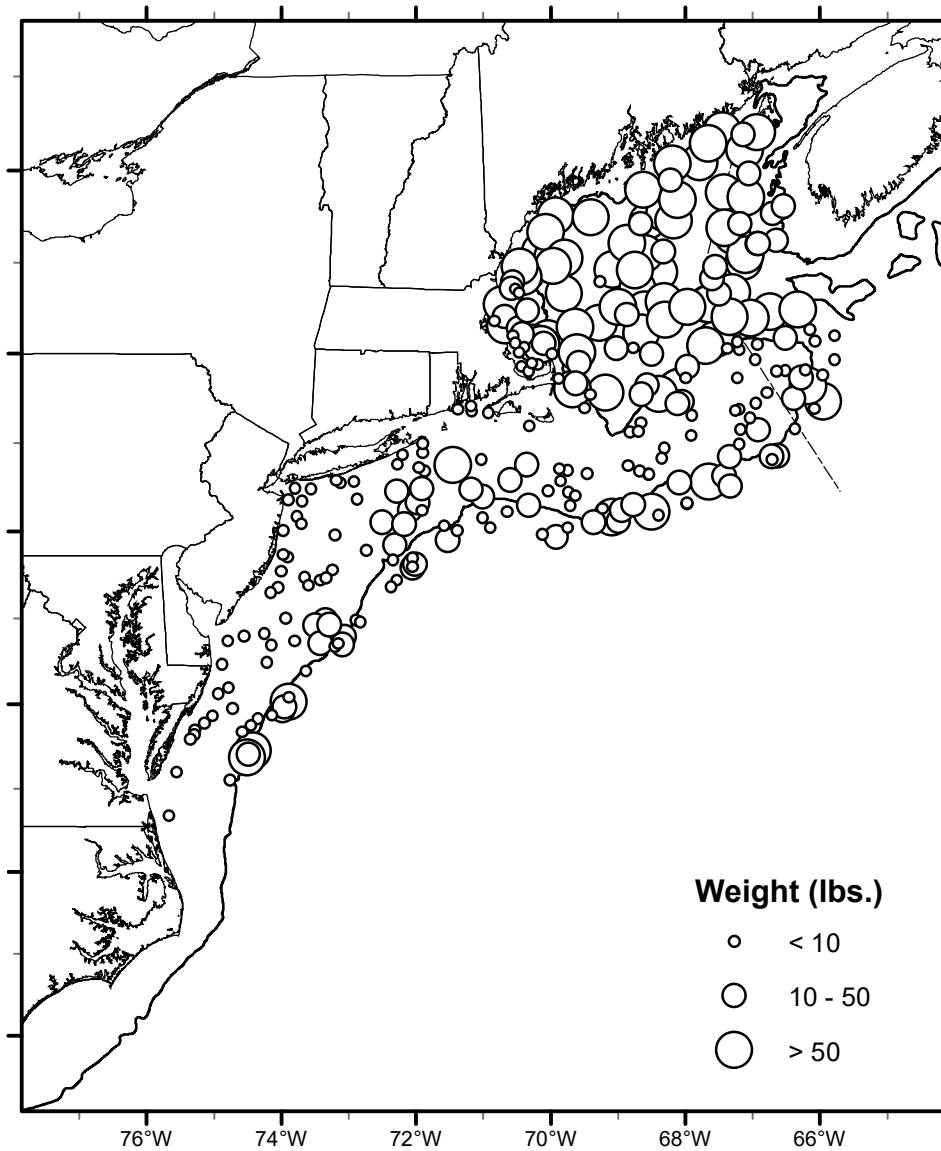


Figure 5: Total number of red hake (left panel) and white hake (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

SILVER HAKE



ACADIAN REDFISH

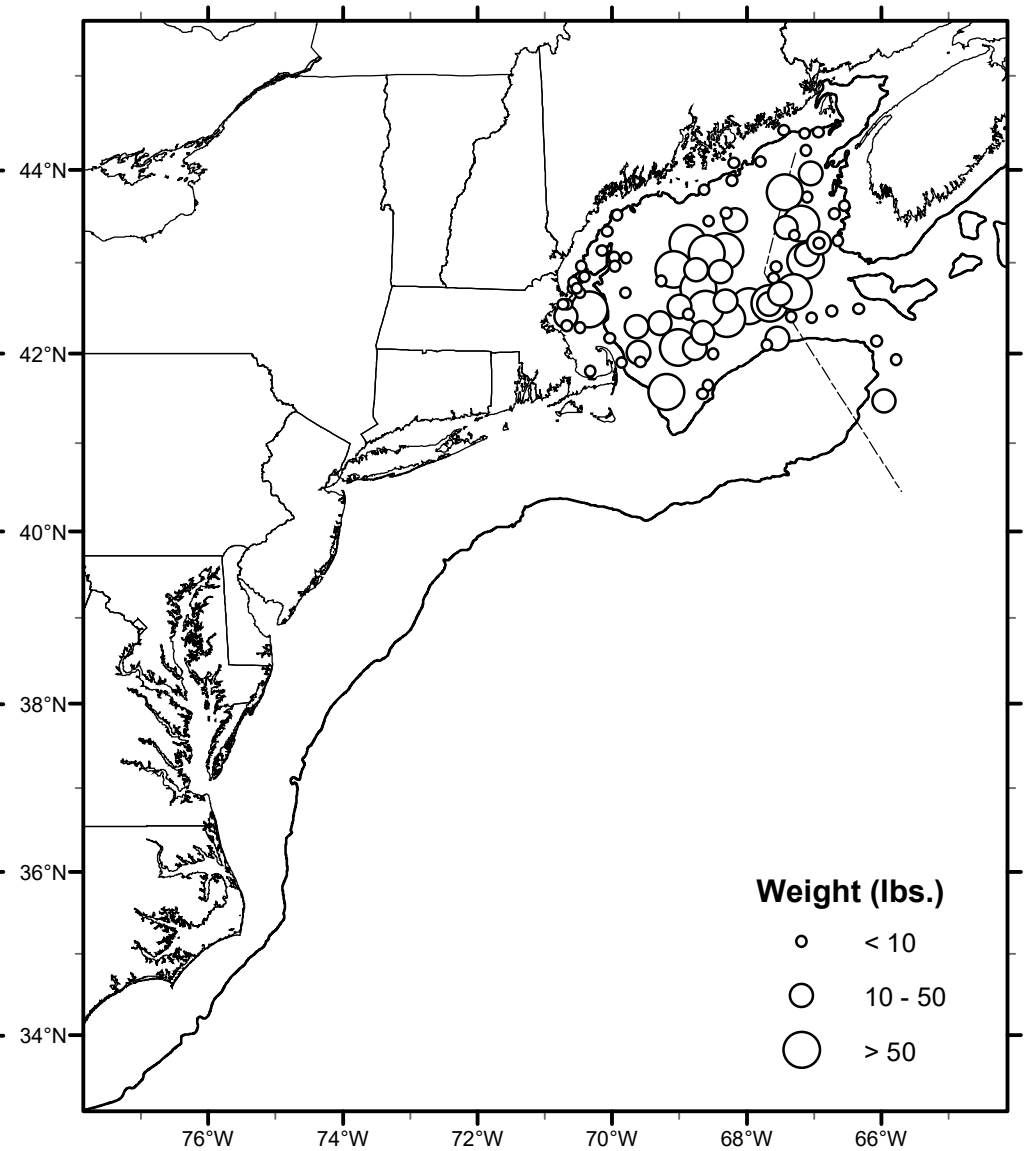
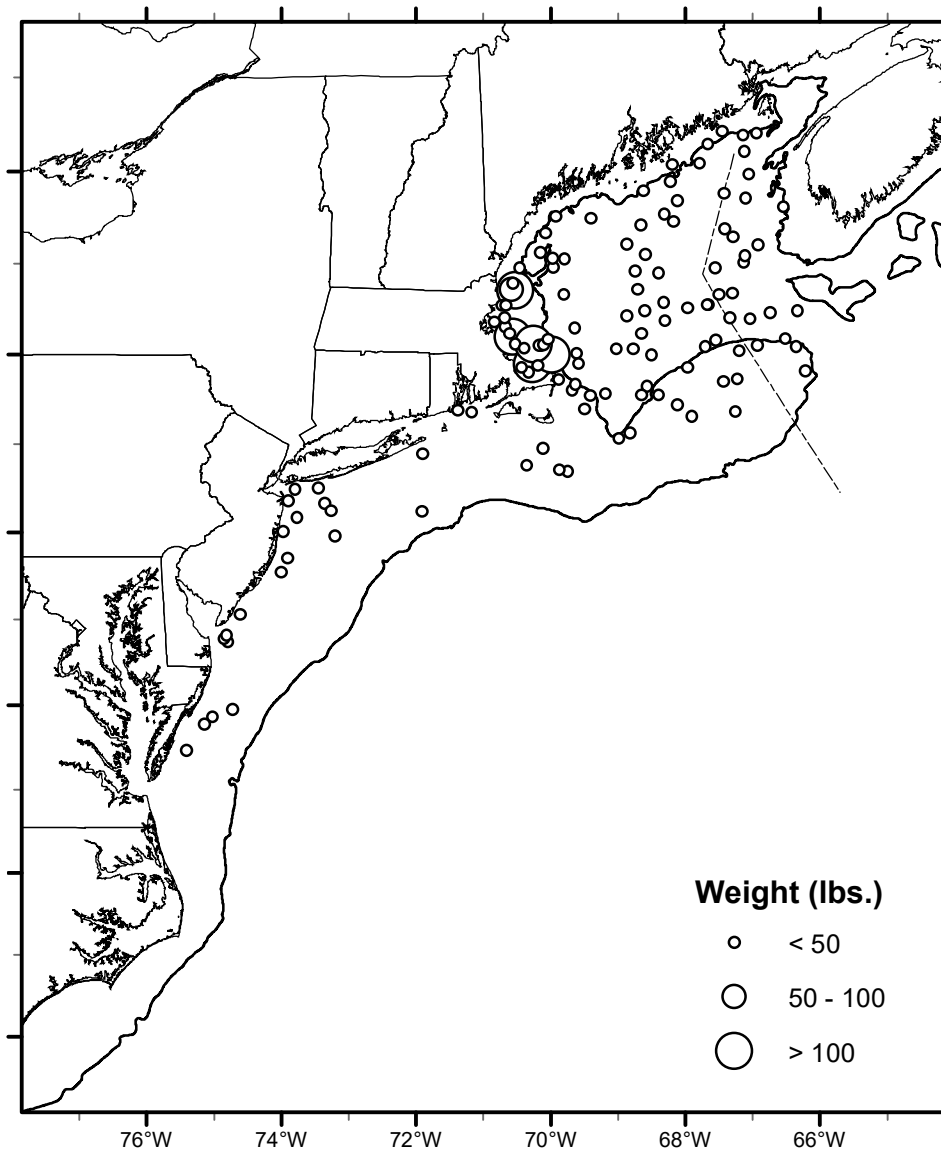


Figure 6: Total number of silver hake (left panel) and Acadian redfish (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

ATLANTIC HERRING



ATLANTIC MACKEREL

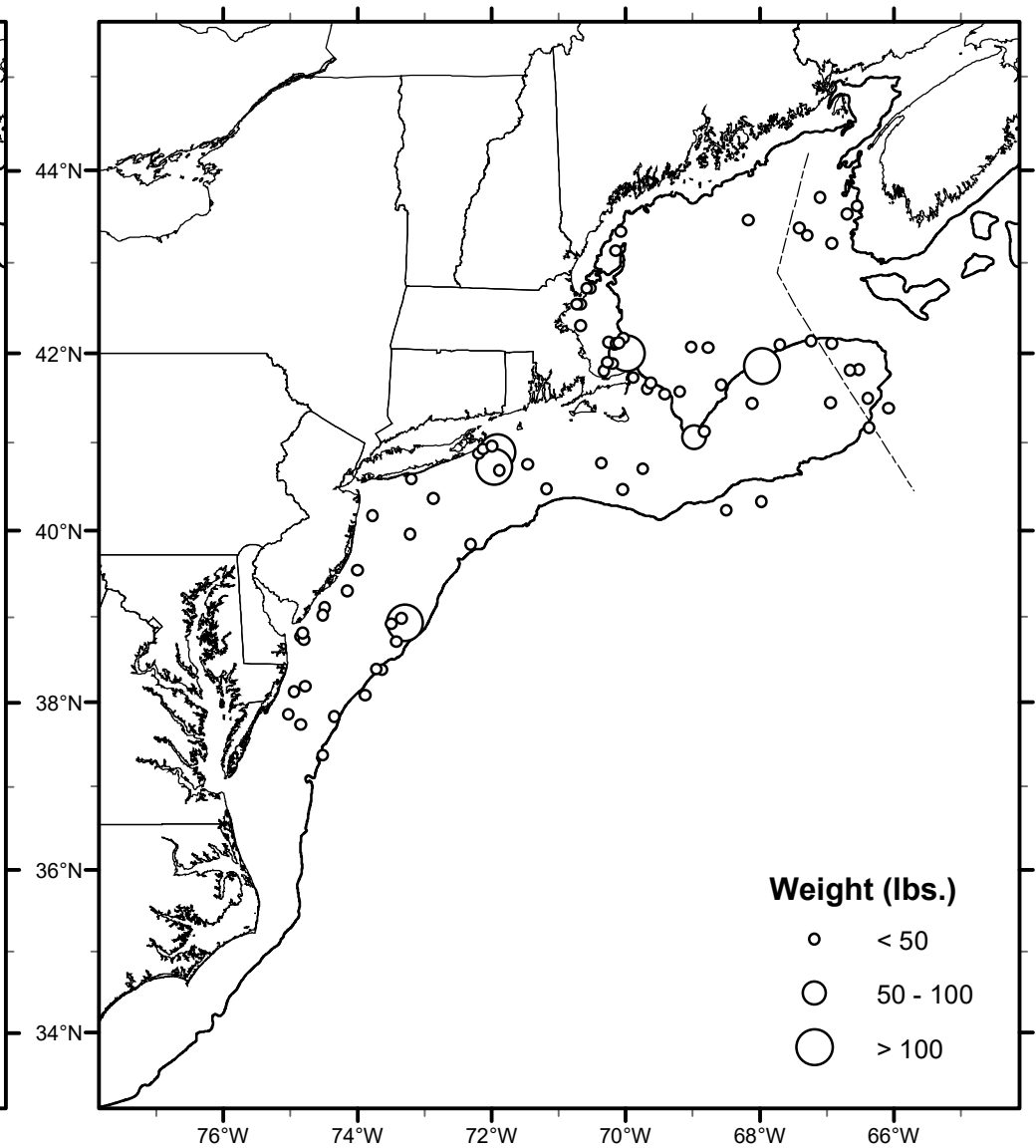
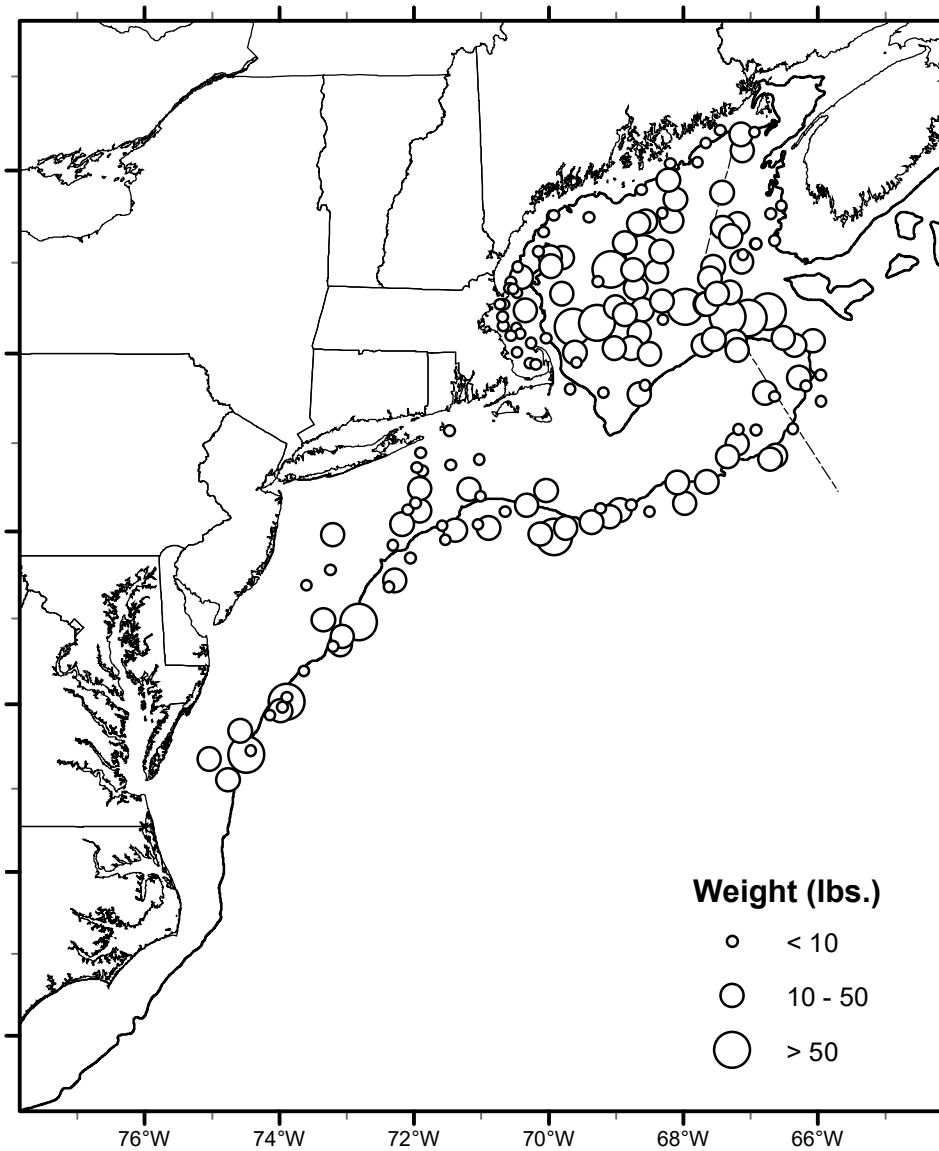


Figure 7: Total number of Atlantic herring (left panel) and Atlantic mackerel (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

GOOSEFISH



SPINY DOGFISH

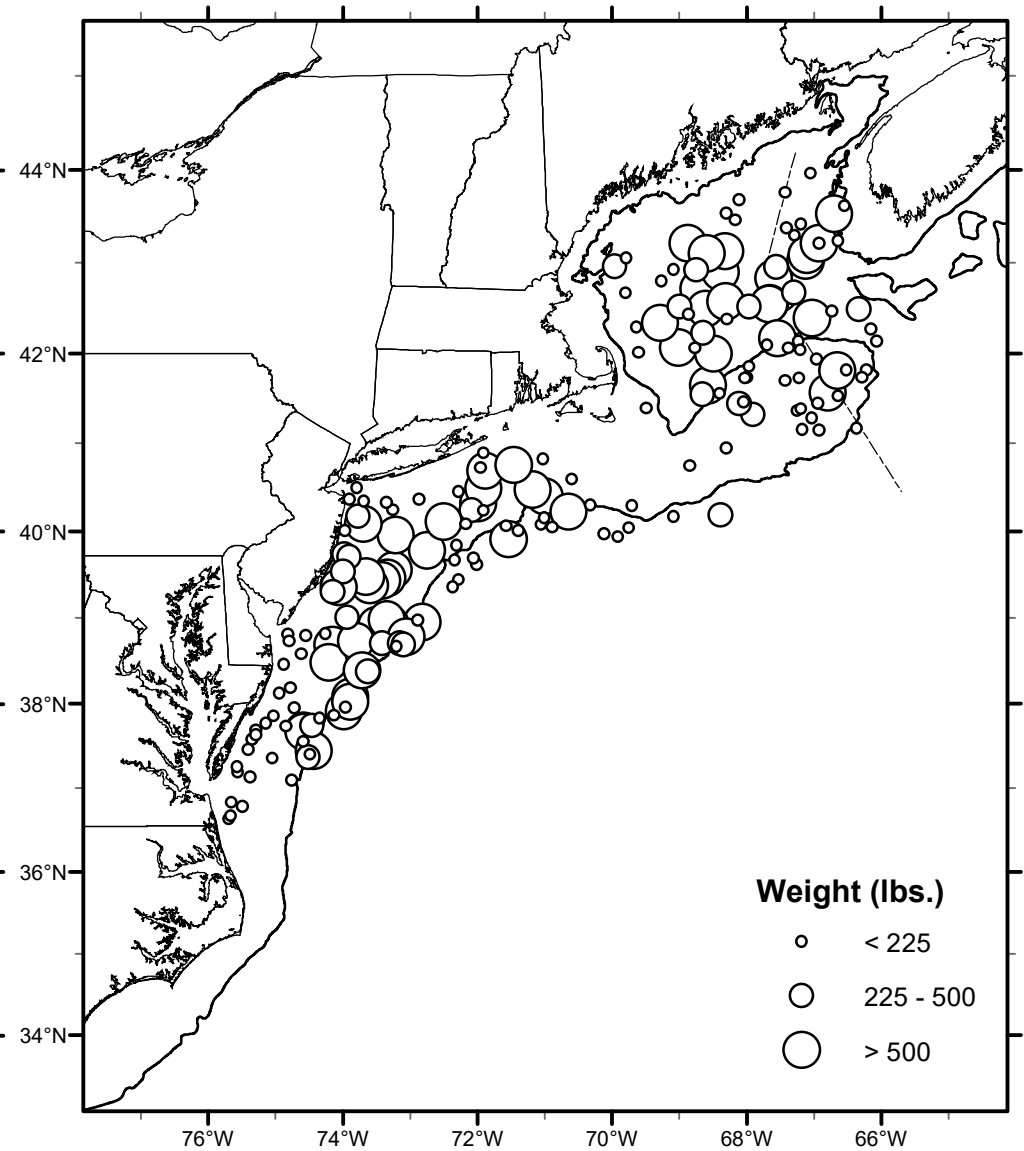
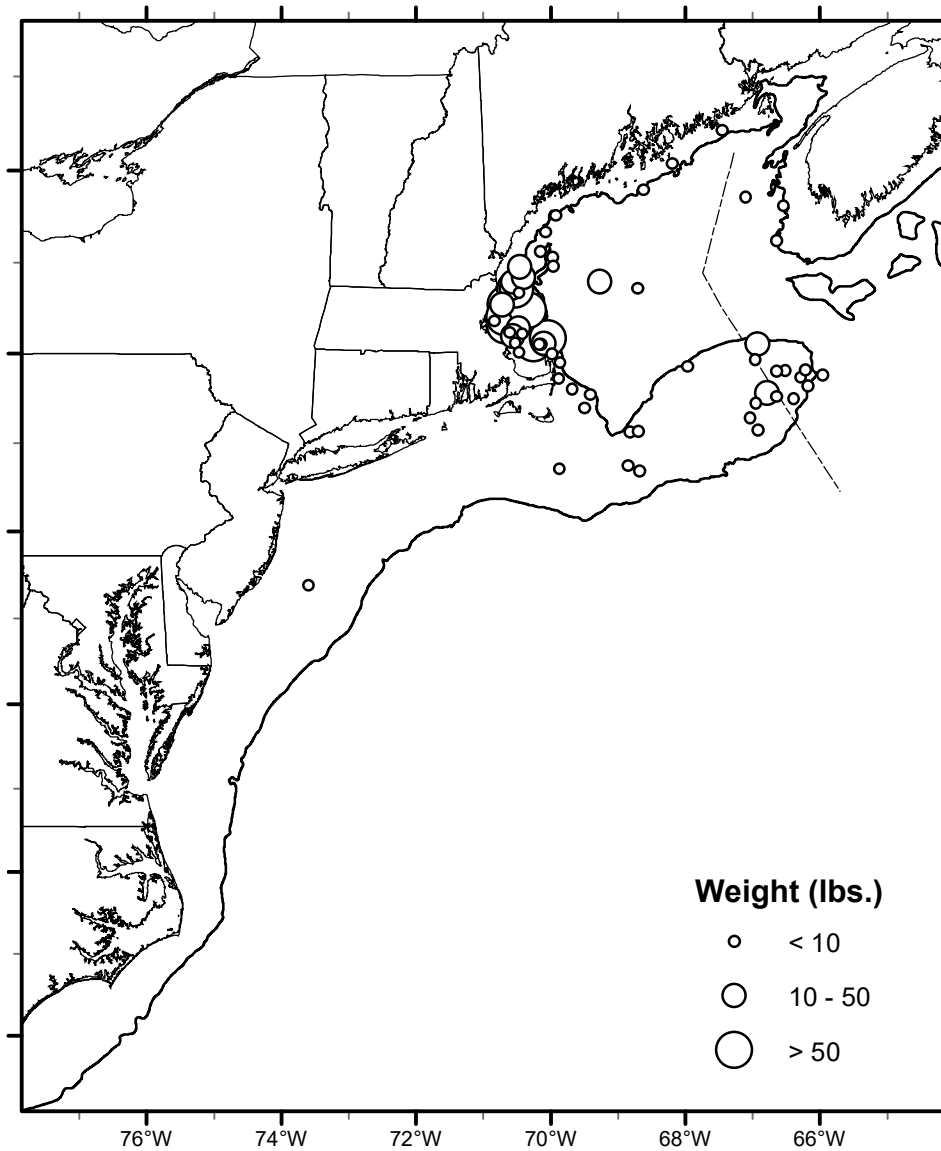


Figure 8: Total number of goosefish (left panel) and spiny dogfish (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

YELLOWTAIL FLOUNDER



WINTER FLOUNDER

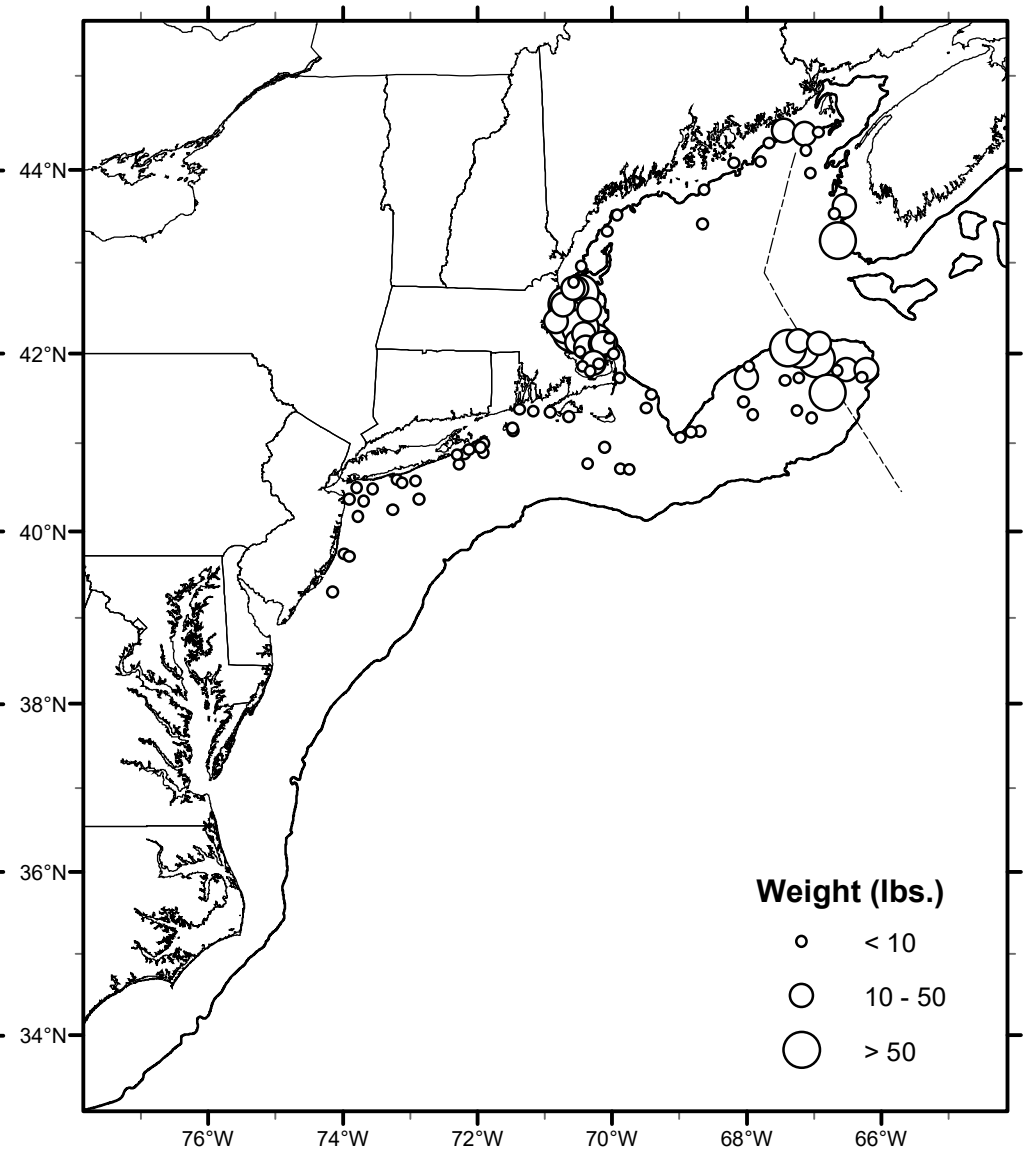
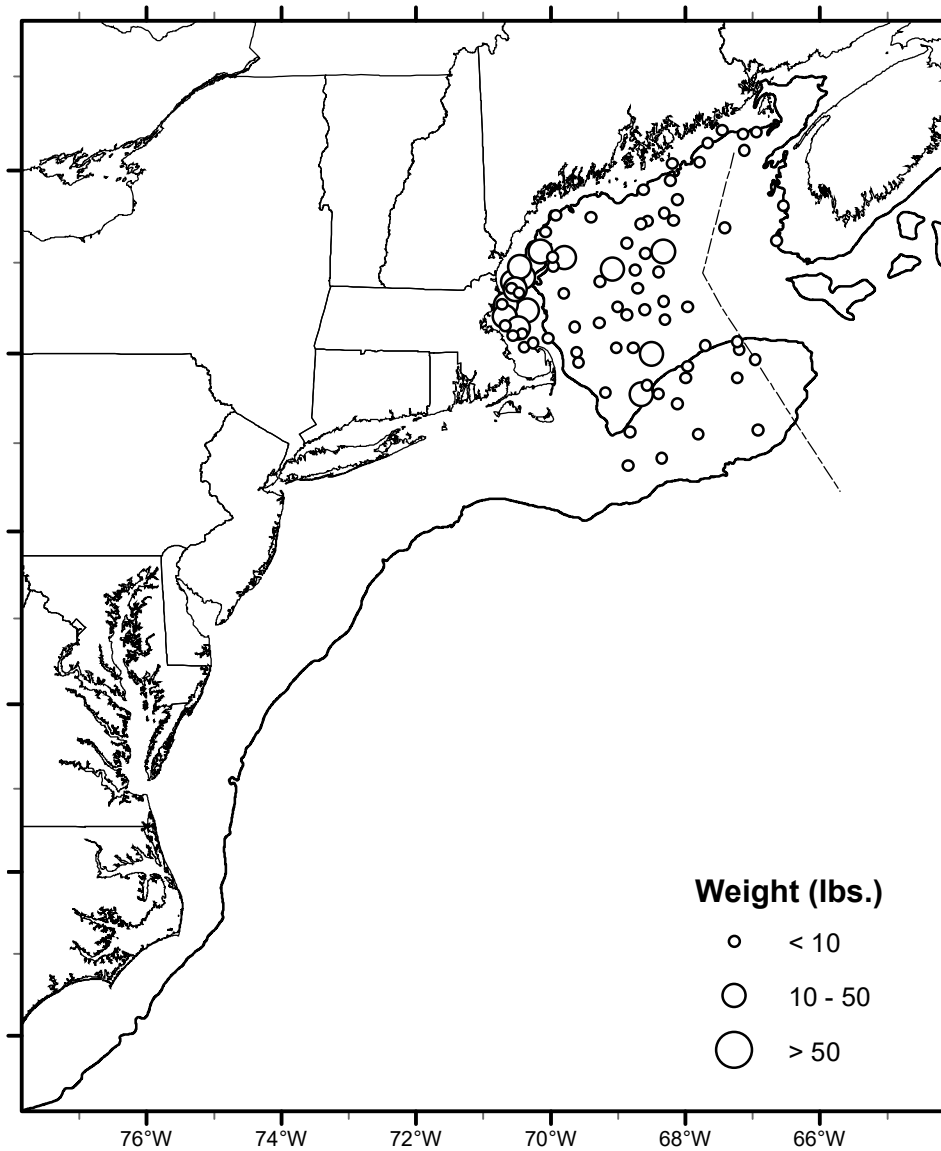


Figure 9: Total number of yellowtail flounder (left panel) and winter flounder (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

AMERICAN PLAICE



WITCH FLOUNDER

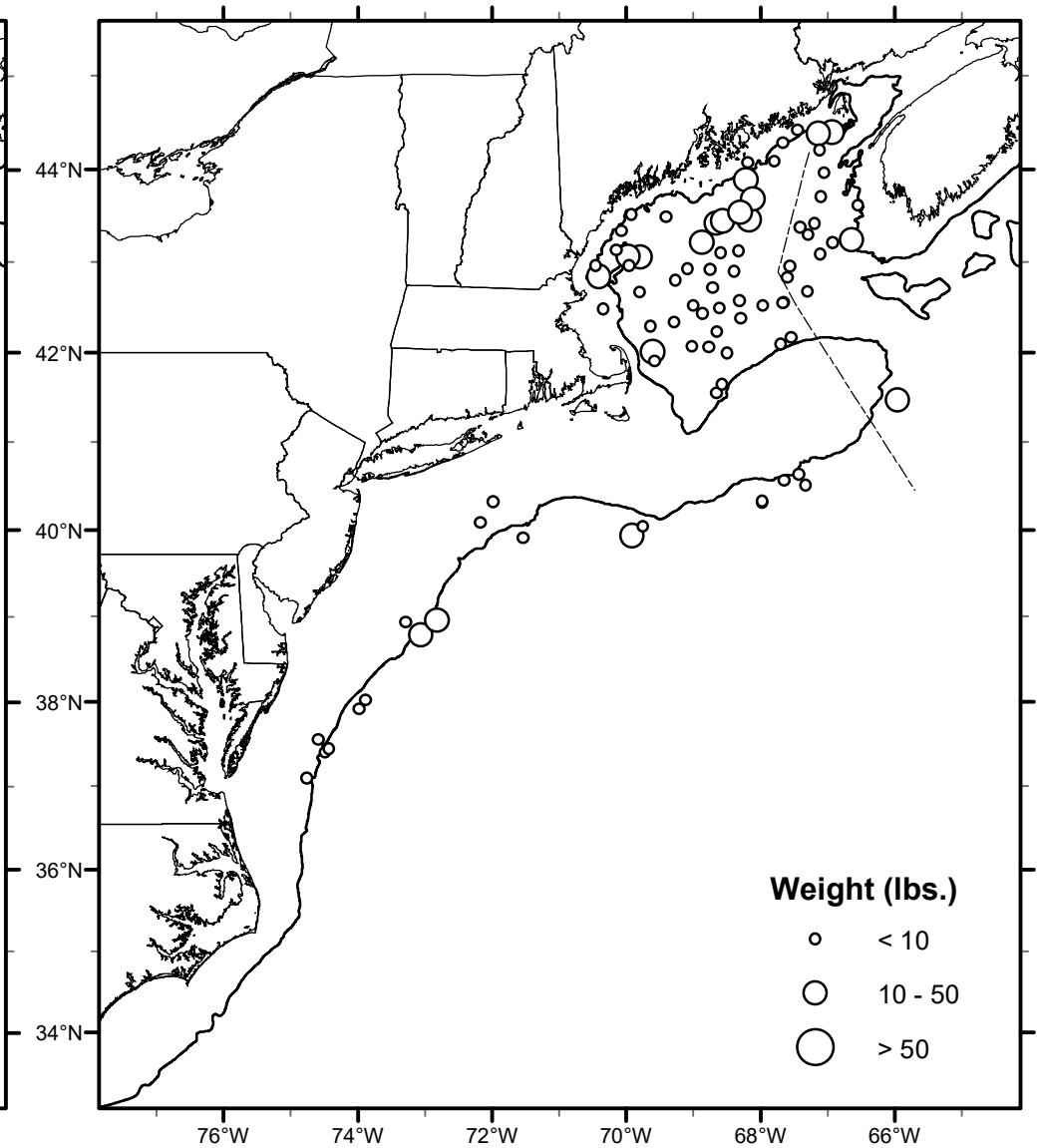
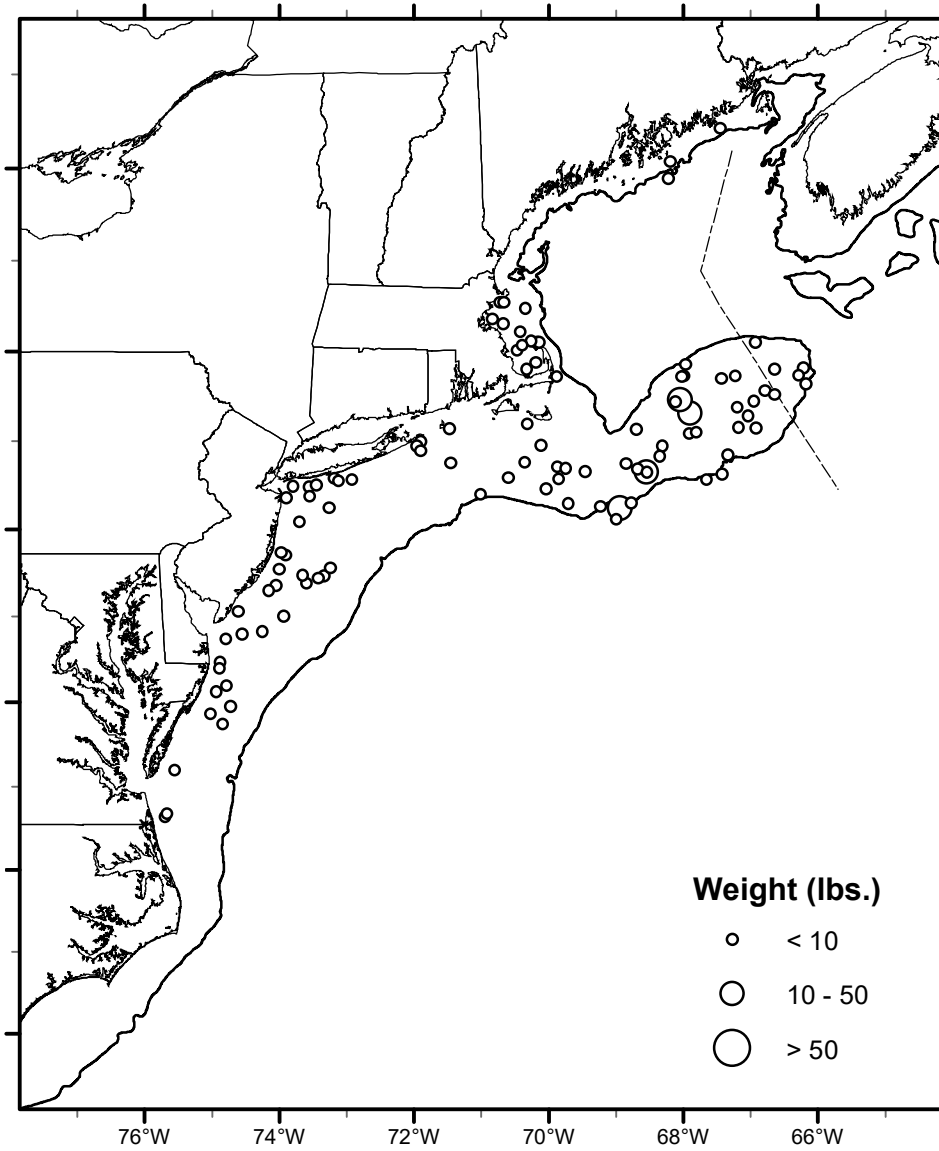


Figure 10: Total number of American plaice (left panel) and witch flounder (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

WINDOWPANE FLOUNDER



SUMMER FLOUNDER

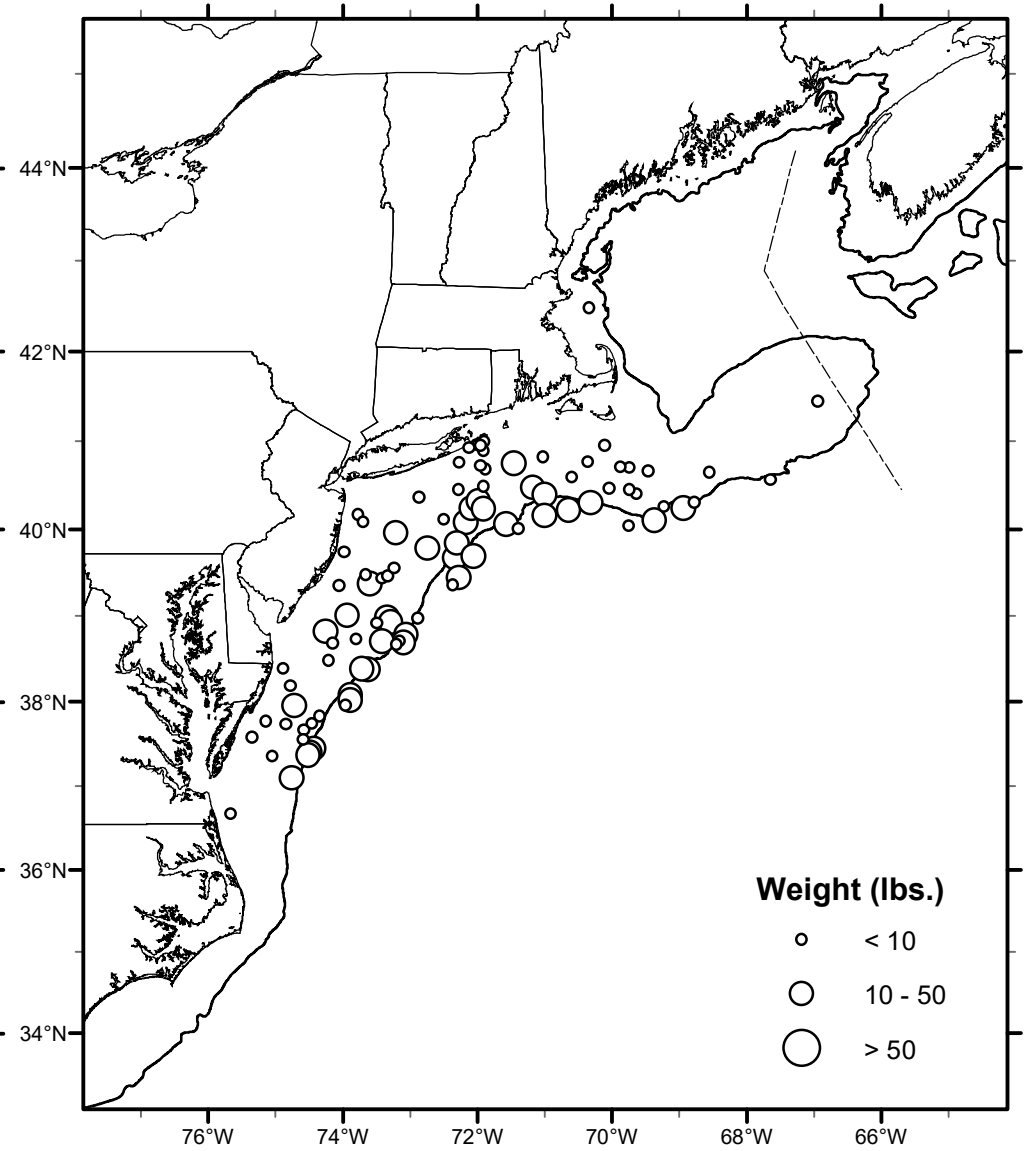
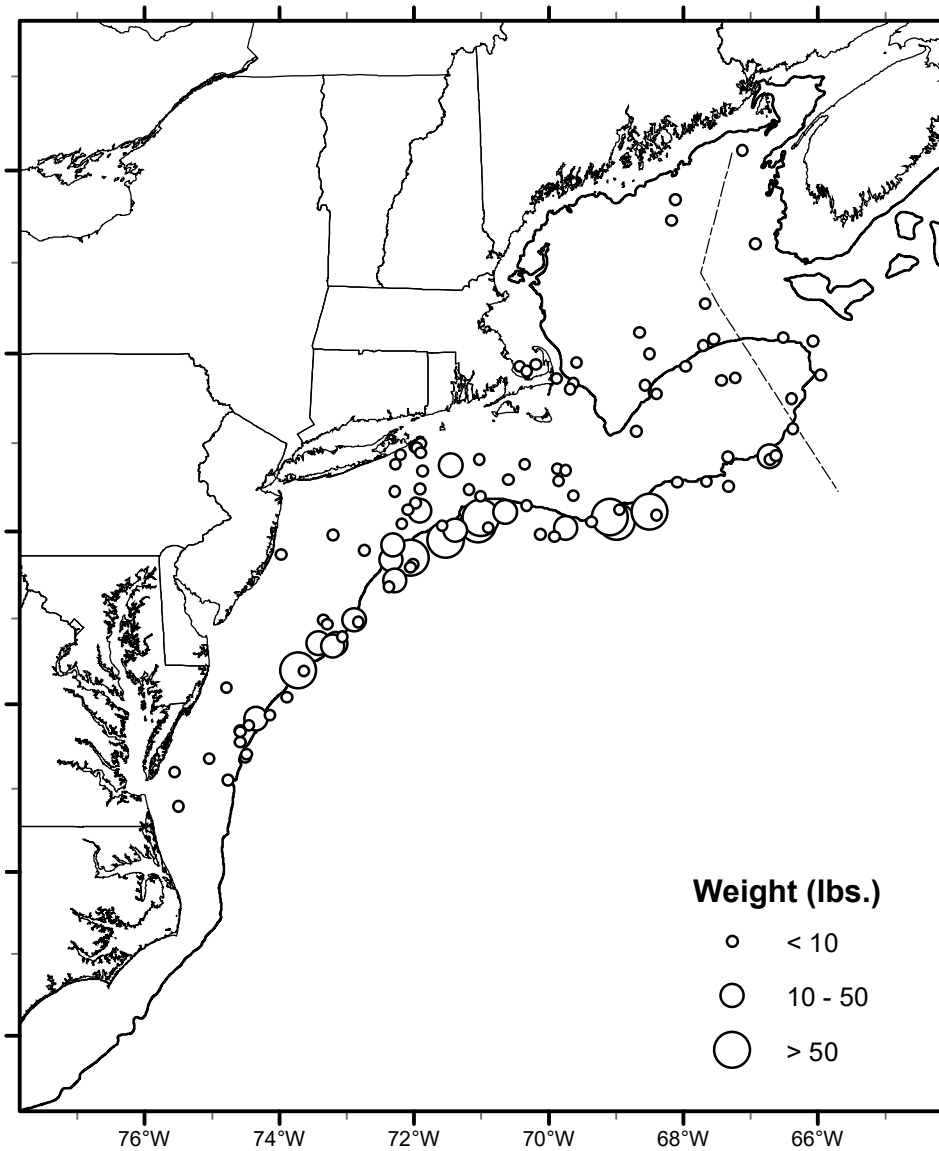


Figure 11: Total number of windowpane flounder (left panel) and summer flounder (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

BUTTERFISH



AMERICAN LOBSTER

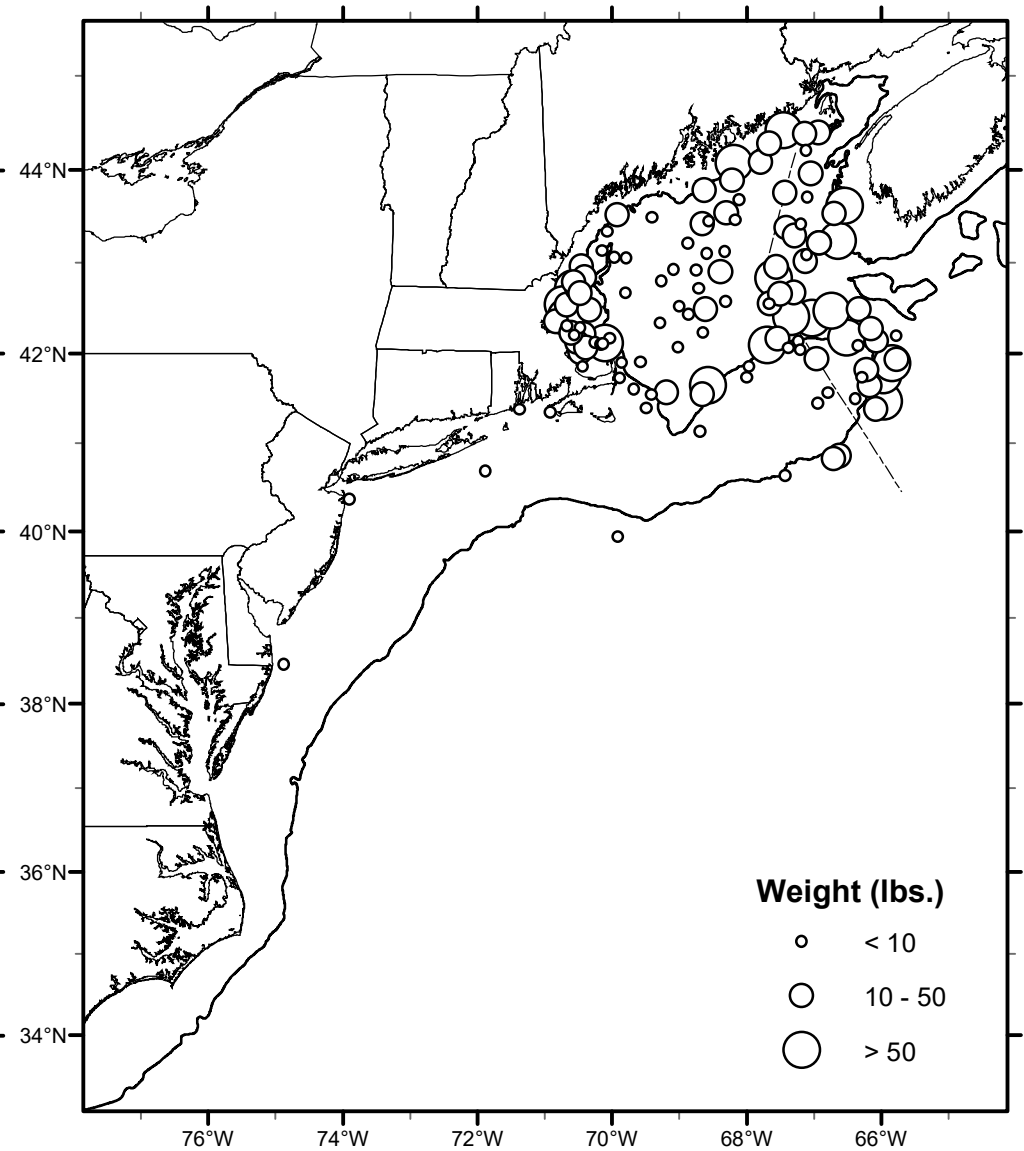
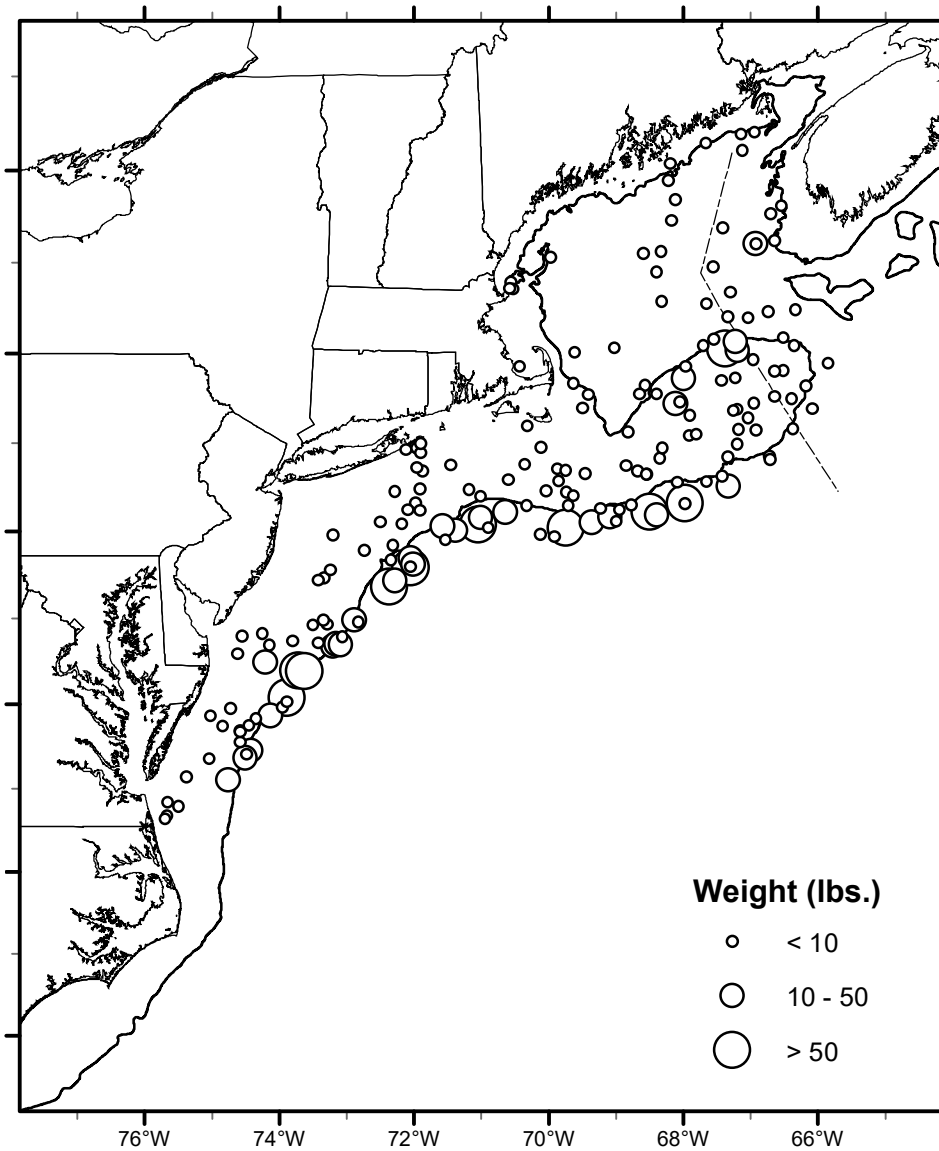


Figure 12: Total number of butterfish (left panel) and American lobster (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021

INSHORE LONGFIN SQUID



NORTHERN SHORTFIN SQUID

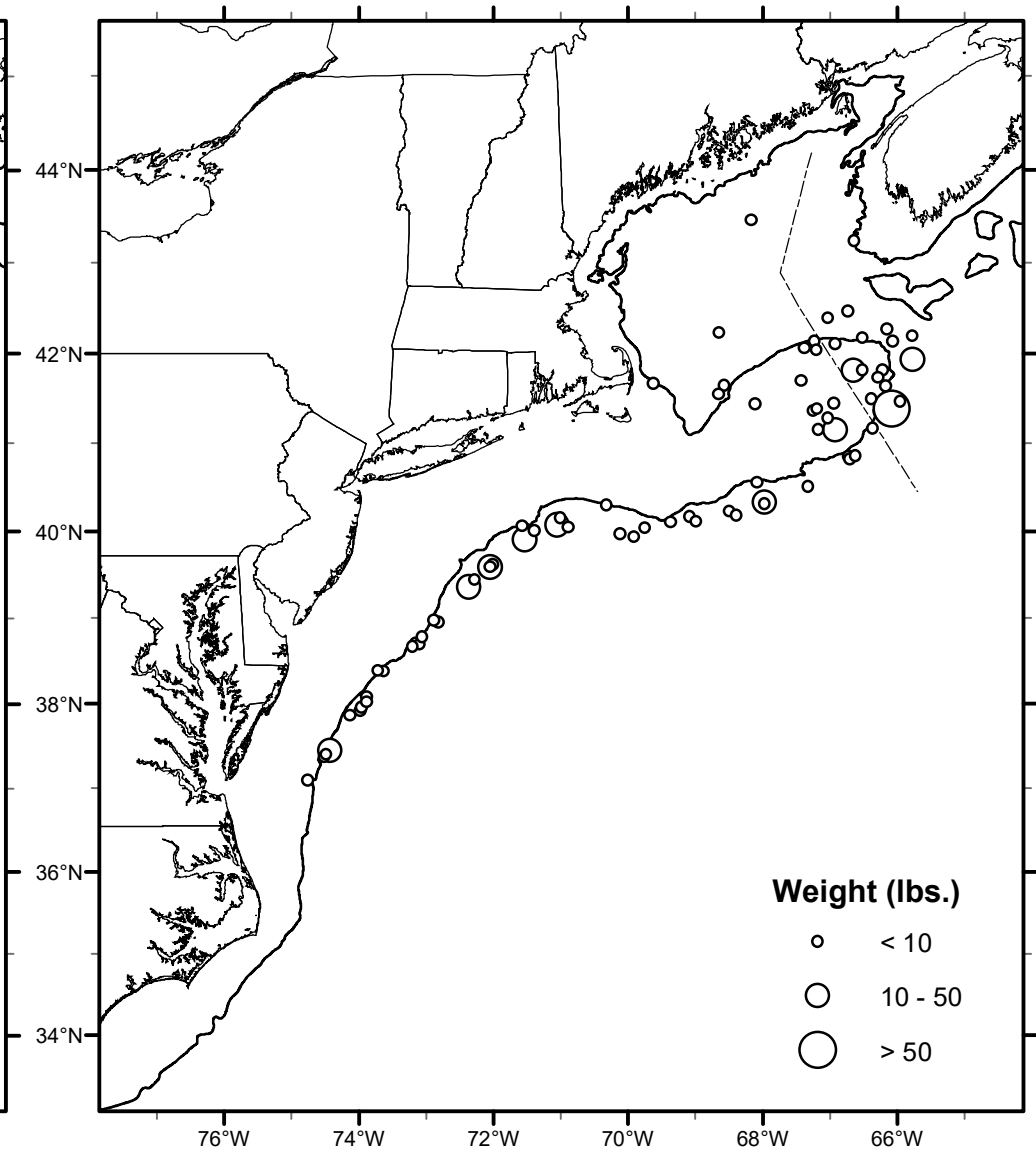


Figure 13: Total number of inshore longfin squid (left panel) and northern shortfin squid (right panel) per tow from NOAA Fisheries, Northeast Fisheries Science Center's spring multispecies bottom trawl survey, 13 March - 27 May 2021