Resource Survey Report
Bottom Trawl Survey

Cape Hatteras – Gulf of Maine
March 6 – May 3, 2008

NOAA FRV *Albatross IV*

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

A large catch of lobsters from Georges Bank.

The Northeast Fisheries Science Center's three research vessels together on Georges Bank. From left: NOAA FRV *Delaware II*, NOAA FRV *Albatross IV*, NOAA FSV *Henry B. Bigelow*.

NOAA FSV *Henry B. Bigelow* paired with the NOAA FRV *Albatross IV* to complete calibration tows during the Spring Bottom Trawl Survey.

A mix of commonly caught species and habitat from a tow in the Great South Channel.

RESOURCE SURVEY REPORT
Catch Summary

NOAA Fisheries Service
Northeast Fisheries Science Center

Spring Bottom Trawl Survey
Cape Hatteras - Gulf of Maine
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Attached are field notes, station and catch summaries and a series of geographical plots of commercially and recreationally important species caught during the Northeast Fisheries Science Center's 2008 spring bottom trawl survey aboard the NOAA FRV *Albatross IV*. Tows were made with a #36 Yankee otter trawl rigged with rollers, 5 fathom legs and 1000 pound polyvalent doors. The cod end and upper belly were lined with 1/2-inch mesh to retain young-of-the-year fish.

Because of the 30-minute tow duration, and random selection of station locations, catches can be light compared with commercial tows. Also, vessel operations are on a 24-hour basis and catches have not been adjusted for day/night differences. Nevertheless, these data can provide fishermen with useful information about the distribution and relative abundance of species inhabiting the survey area (Cape Hatteras to the Gulf of Maine).

The data are now summarized from audited catch files generated from the Fisheries Scientific Computer System (FSCS).

For further information contact Russell Brown (508-495-2380) or Linda Despres (508-495-2346), NOAA Fisheries 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/esb** and choose:

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

Field Notes

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

Sea Snails

The multiple captures of peculiar, diminutive fishes known as sea snails was very interesting this year on the first leg of the survey. The fish were captured off the New York Bight and were unusual in the sense that they are normally seen in the presence of sea scallops; in fact they are usually living inside the shell in what is considered a commensal relationship. These specimens were roughly twice the size of what we normally encounter, and were not captured in association with large numbers of scallops, giving us the initial impression that they were free living. Sea snails resemble tadpoles and one of their more interesting adaptations is the presence of a sucker disc on the underside of the body. Some other species of fish have evolved ventral sucker discs such as gobies and lumpfish, and it is presumed they are used to hang on to bottom substrate in the event of current or turbulent water. Like a tadpole, these fish have naked skin instead of scales, making them resemble amphibians even more. It will be interesting to see if these larger specimens show up again next year.

Sturgeon Concentrations

Juvenile and adult Atlantic sturgeon migrate south to over-winter off the coast of Virginia and North Carolina. We occasionally capture 1-2 individuals in a tow, but this year, we encountered four individuals in a single tow south of Cape Hatteras. These fish are quickly measured, weighed, scanned for tags, tagged, sampled for genetics and returned to the water alive. To ensure the welfare of the sturgeon, up to four scientists work simultaneously on each fish.

Supersized Redfish

In the slope waters off from the Northeast Peak of Georges, we pulled up the largest redfish that had been seen in quite some time…a 19 inch redfish came aboard in spawning condition. Even though the survey has caught fish up to 20 inches, the last one that size was caught in 1982.

Interesting Stomach Contents

While on Nantucket Shoals, Atlantic cod, Atlantic sea herring, long horn sculpin, Atlantic mackerel and windowpane flounder stomachs were filled with small and medium sized whole sand lance. Small cod were also mixed in with the sand lance in windowpane flounder stomachs. In Massachusetts Bay, we saw medium sized whole ocean pout in several sea raven stomachs all inhaled in one bite.

Lost Atlantic Sturgeon

According to Bigelow and Shroeder's, Fishes of the Gulf of Maine, Atlantic sturgeon "historically entered practically every stream of any size emptying into the Gulf of Maine and Massachusetts as well as at Provincetown and at Nantucket." In the 45 year history of the bottom trawl surveys, we picked up our first Atlantic sturgeon in the Nantucket Shoals area that came in at 35 pounds and 52 inches. We have never caught one along the Maine coast but did pick up two individuals in 1991 and 1998 in the Massachusetts Bay area (26 and 15 pounds respectively).

Searching for Stations

NOAA FSV *Henry B. Bigelow* paired with NOAA FRV *Albatross IV* on some difficult bottom stations in the northern and eastern areas of the Gulf of Maine. Both vessels scouted long hours off Penobscot Bay to find towable bottom clear of gear. The long search paid off when the *Bigelow* was able to pair side by side successfully on tows with the *Albatross* in this area. In Canadian waters, at stations on German Bank notorious for gear damage, the *Bigelow* scanned the area with their ME-70 multibeam sensor as the *Albatross* towed past. Seeing this new technology in action was exciting for all onboard.

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

Russell Brown
Chief Scientist
Survey Leg II
508-495-2380
Russell.Brown@noaa.gov

Stacy Rowe
Chief Scientist
Survey Leg IV
508-495-2021
Stacy.Rowe@noaa.gov

Linda Despres
Chief Scientist
Survey Legs III & V
508-495-2346
Linda.Despres@noaa.gov

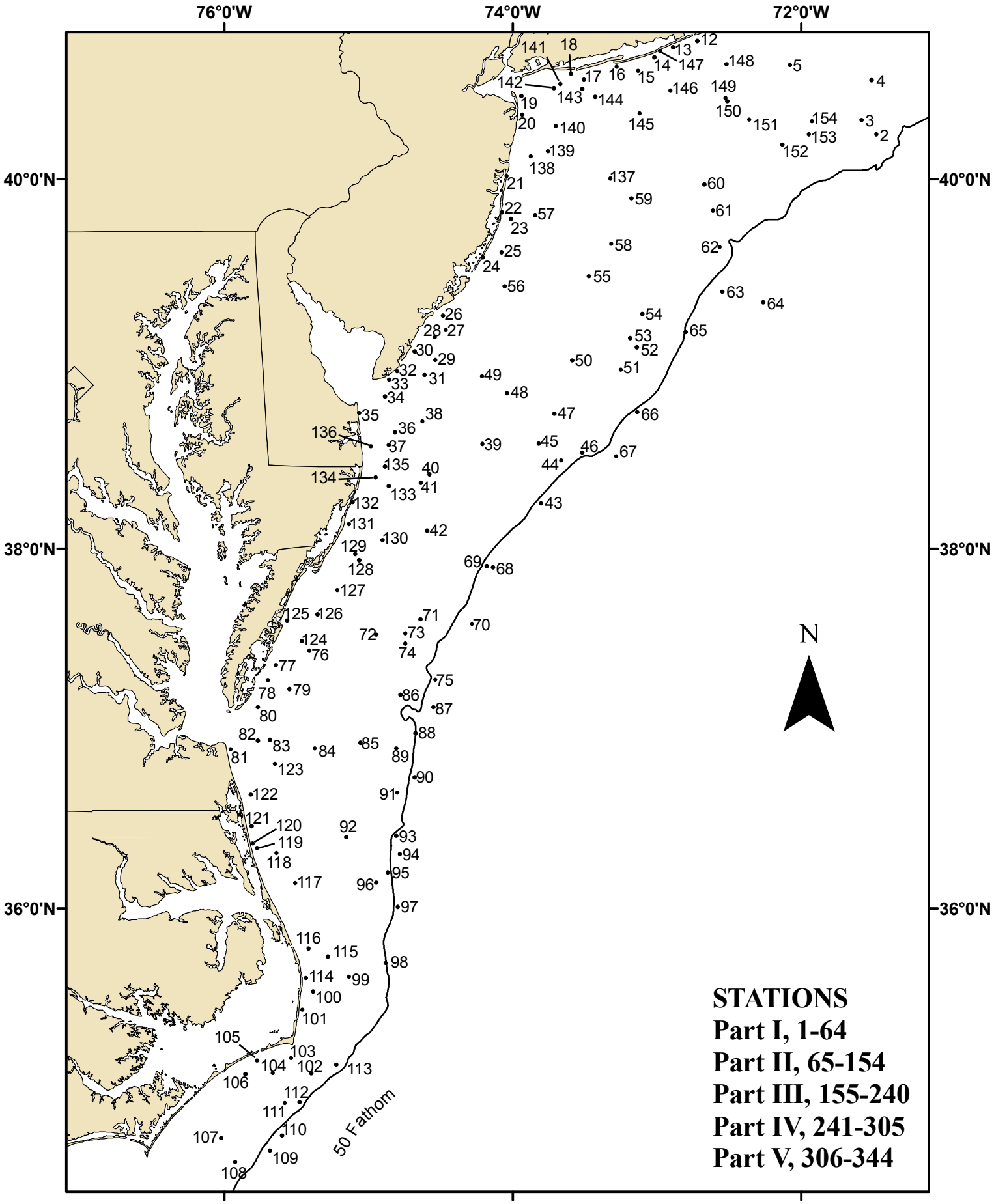

Figure 1. Trawl hauls made from NOAA FRV Albatross IV (08-01), during NOAA Fisheries Service, Northeast Fisheries Science Center spring bottom trawl survey, March 6 - May 3, 2008.

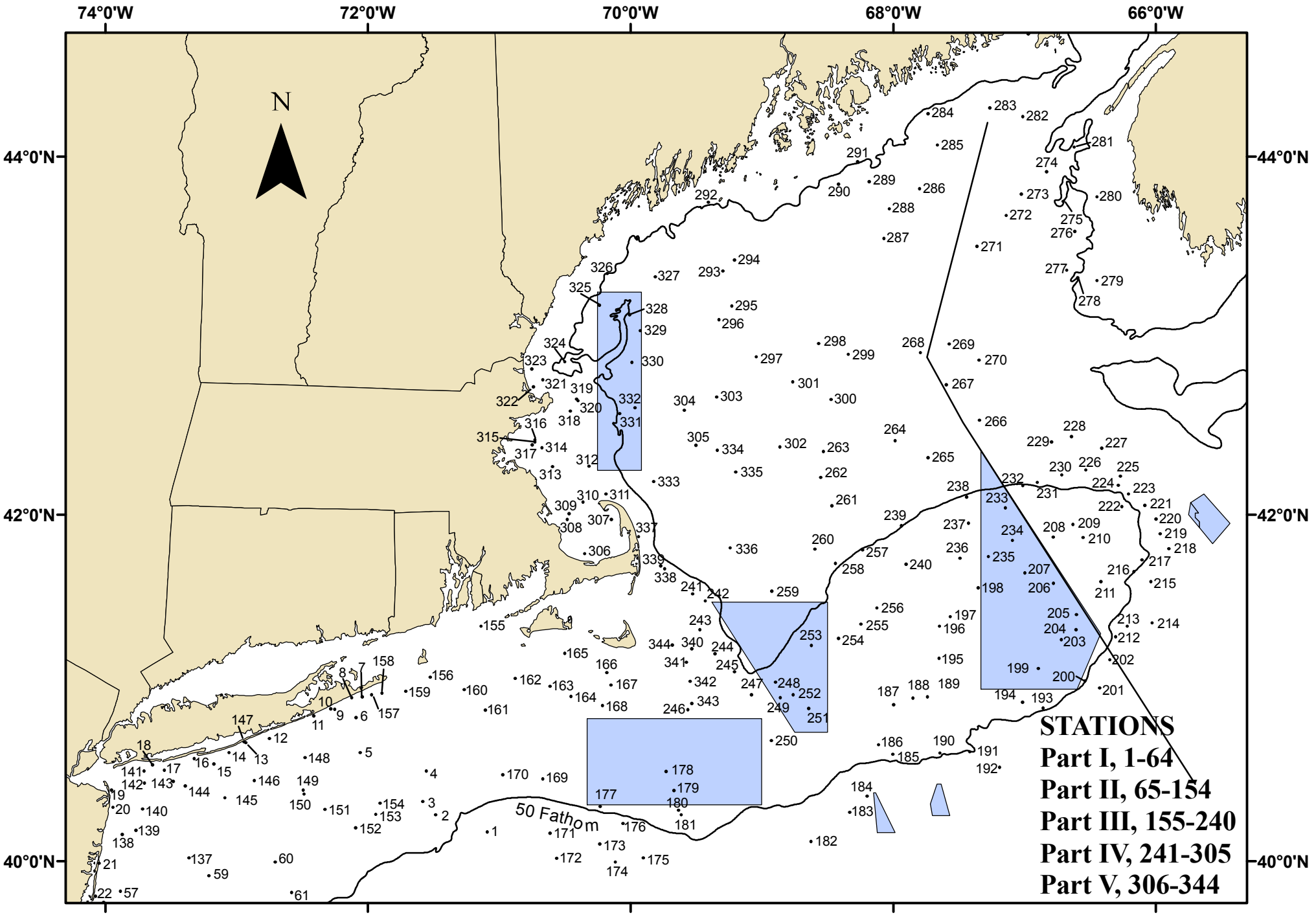

Figure 2. Trawl hauls made from NOAA FRV Albatross IV (08-01), during NOAA Fisheries Service, Northeast Fisheries Science Center spring bottom trawl survey, March 6 - May 3, 2008.

NOAA Fisheries Service NEFSC SPRING BOTTOM TRAWL SURVEY
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
1	7-Mar	311	4008.6	7104	X25615.7	Y43385.6	315	77.4	12.3
2	7-Mar	607	4014.3	7128.5	X25784.1	Y43448.6	345	47.3	10.35
3	7-Mar	746	4018.9	7134.8	X25829.2	Y43490.7	347	45.1	10.03
4	7-Mar	951	4031.6	7130.6	X25792.2	Y43587.6	255	39.6	8.16
5	7-Mar	1319	4036.4	7204.7	X26073.9	Y43662.5	9	28.4	6.76
6	7-Mar	1520	4048.3	7205.3	X26092.1	Y43760.0	329	22.1	5.57
7	7-Mar	1705	4056.2	7204.5	X26096.5	Y43822.2	46	12.8	4.34
8	7-Mar	1843	4056.1	7209.4	X26138.9	Y43827.9	58	8.7	4.72
9	7-Mar	2012	4053.7	7212.6	X26163.0	Y43813.6	258	12.6	4.47
10	7-Mar	2135	4053.8	7214.4	X26179.2	Y43816.6	246	10.1	4.57
11	7-Mar	2256	4051.4	7222.3	X26243.2	Y43808.4	260	8.2	4.83
12	8-Mar	252	4044	7243.2	X26407.7	Y43774.0	242	13.7	5.12
13	8-Mar	427	4042.1	7253.3	X26488.5	Y43770.0	259	10.4	5.12
14	8-Mar	554	4038.8	7301	X26546.2	Y43750.6	205	9	4.91
15	8-Mar	716	4034.5	7307.8	X26593.6	Y43719.6	224	13.7	5.11
16	8-Mar	906	4035.9	7316.7	X26669.1	Y43743.1	267	9.3	5.71
17	8-Mar	1053	4031.7	7330.4	X26769.5	Y43719.9	277	9.8	5.5
18	8-Mar	1432	4033.6	7335.7	X26817.1	Y43744.1	5.2	4.9	6.04
19	9-Mar	343	4026.6	7356.4	X26961.2	Y43697.6	199	6.6	6.16
20	9-Mar	528	4020.6	7356.1	X26942.6	Y43637.1	175	7.9	5.95
21	9-Mar	814	4001	7402.4	X26938.2	Y43442.0	171	9.3	5.33
22	9-Mar	1014	3949.5	7404.4	X26924.1	Y43322.9	160	6	5.43
23	9-Mar	1136	3947.3	7400.8	X26893.7	Y43298.7	185	10.1	5.03
24	9-Mar	1333	3936.5	7404.5	X26895.4	Y43187.0	265	7.9	5.18
25	9-Mar	1453	3934.9	7412.3	X26944.6	Y43171.3	22	7.1	6.37
26	9-Mar	1828	3916.1	7428.9	X27008.2	Y42967.5	190	8.2	5.73
27	9-Mar	1957	3911.4	7427.8	X26990.5	Y42916.3	258	10.4	5.78
28	9-Mar	2113	3909.1	7432.4	X27013.4	Y42889.6	168	8.2	6.09
29	9-Mar	2239	3901.6	7432.2	X26995.7	Y42808.3	213	7.9	5.9
30	10-Mar	29	3904.4	7440.9	X27054.1	Y42835.8	221	7.4	6.17
31	10-Mar	212	3856.8	7436.6	X27011.7	Y42753.0	235	6.6	6.24
32	10-Mar	356	3857.9	7448	X27081.0	Y42760.3	215	6	6.09
33	10-Mar	510	3855.3	7451.4	X27094.5	Y42729.0	245	6.3	6.09
34	10-Mar	728	3849.9	7453	X27090.9	Y42667.1	264	6.8	6.21
35	10-Mar	938	3844.4	7503.9	X27138.7	Y42597.8	172	6	6.36
36	10-Mar	1219	3838.2	7448.9	X27041.8	Y42539.5	13.7	13.7	7.01
37	10-Mar	1407	3834	7451.6	X27047.7	Y42490.0	146	12.8	6.96
38	10-Mar	1625	3841.7	7437.5	X26985.1	Y42585.8	109	16.7	6.78
39	10-Mar	1924	3834.3	7412.6	X26830.0	Y42523.5	200	24.3	9.93
40	10-Mar	2215	3824.4	7434.6	X26936.1	Y42397.5	233	16.7	7.71
41	10-Mar	2328	3821.6	7438.2	X26951.0	Y42364.4	158	20.2	7.85
42	11-Mar	211	3805.9	7435.5	X26910.0	Y42195.3	92	19.4	8.54
43	11-Mar	649	3814.9	7348.3	X26668.5	Y42339.4	186	61.5	11.89
44	11-Mar	930	3828.9	7339.8	X26635.1	Y42490.5	315	37.7	11.52
45	11-Mar	1114	3834.5	7349.1	X26695.2	Y42541.9	121	32	10.22
46	11-Mar	1330	3831.5	7331	X26586.9	Y42523.3	309	41.8	11.71
47	11-Mar	1550	3844.2	7342.7	X26669.3	Y42645.7	328	27.9	7.95
48	11-Mar	1806	3851	7402.2	X26795.8	Y42706.5	284	23.8	7.98

NOAA Fisheries Service NEFSC SPRING BOTTOM TRAWL SURVEY
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
49	11-Mar	1955	3856.3	7412.8	X26868.2	Y42758.7	83	19.7	7.47
50	11-Mar	2321	3901.6	7335.2	X26644.3	Y42825.9	97	29.3	7.82
51	12-Mar	204	3858.5	7314.9	X26513.2	Y42800.8	36	41.8	11.36
52	12-Mar	348	3905.8	7308.2	X26477.2	Y42874.0	331	37.2	10.55
53	12-Mar	505	3908.8	7311.1	X26497.8	Y42903.0	17	35.8	10.28
54	12-Mar	648	3916.7	7306	X26471.6	Y42980.0	332	35.3	10.89
55	12-Mar	931	3928.7	7328.2	X26634.4	Y43100.8	265	18.9	6.4
56	12-Mar	1309	3925.5	7403.3	X26864.1	Y43070.6	356	12.3	5.51
57	12-Mar	1626	3948.5	7350.7	X26825.4	Y43307.3	295	13.7	5.37
58	12-Mar	2008	3939.2	7319	X26585.0	Y43202.7	12	21.3	5.94
59	12-Mar	2306	3953.9	7310.5	X26544.2	Y43341.0	309	32.5	8.61
60	13-Mar	335	3958.4	7240.3	X26324.3	Y43364.9	308	31.2	8.09
61	13-Mar	533	3950	7236.7	X26291.3	Y43286.0	130	31.7	8.79
62	13-Mar	739	3938.2	7233.8	X26265.3	Y43177.7	141	44.3	11.25
63	13-Mar	1009	3923.9	7232.7	X26253.2	Y43045.3	218	68.4	12.05
64	13-Mar	1245	3920.4	7215.7	X26140.4	Y43012.1	7	145.2	9.93
65	18-Mar	2240	3910.8	7248	X26349.7	Y42923.7	212	50	10.38
66	19-Mar	223	3844.8	7308.2	X26462.6	Y42667.9	195	65.6	10.39
67	19-Mar	534	3830.3	7316.8	X26504.1	Y42520.9	47	156.1	11.64
68	19-Mar	1137	3753.9	7408.2	X26751.6	Y42099.6	212	61.8	10.91
69	19-Mar	1330	3754.3	7410.8	X26765.5	Y42100.5	184	56.3	9.9
70	19-Mar	1719	3735.1	7416.9	X26773.5	Y41890.7	216	131.5	9.11
71	19-Mar	2333	3736.7	7438.3	X26880.2	Y41874.7	181	31.2	8.58
72	20-Mar	435	3731.5	7456.8	X26961.0	Y41788.9	171	17.2	8.46
73	20-Mar	649	3732	7444.5	X26903.5	Y41814.1	174	29.8	8.06
74	20-Mar	857	3728.7	7444.6	X26898.9	Y41778.3	144	30.1	8.32
75	20-Mar	1129	3716.7	7432.2	X26825.2	Y41671.8	193	64.8	11.47
76	20-Mar	1914	3726.3	7524.4	X27079.6	Y41685.7	242	13.7	8.1
77	20-Mar	2114	3721.4	7538.6	X27133.9	Y41606.7	187	6	9.49
78	20-Mar	2239	3716.5	7541.8	X27138.6	Y41545.0	198	4.9	8.73
79	21-Mar	17	3713.6	7532.8	X27094.5	Y41527.6	234	9.3	
80	21-Mar	205	3707.5	7546	X27140.3	Y41434.6	187	5.2	9.85
81	21-Mar	434	3653.4	7557.4	X27161.8	Y41251.6	157	4.1	10.61
82	21-Mar	616	3656.3	7546	X27120.4	Y41307.0	93	8.2	9.82
83	21-Mar	737	3656.5	7540.9	X27099.7	Y41319.9	162	10.4	9.17
84	21-Mar	948	3653.6	7522.2	X27016.4	Y41325.6	87	15	8.99
85	21-Mar	1207	3655.7	7503.4	X26938.5	Y41387.1	40	20.8	9.49
86	21-Mar	1450	3711.6	7446.7	X26885.6	Y41591.8	117	38.8	8.83
87	21-Mar	1806	3707.5	7433	X26818.4	Y41574.2	192	132.9	5.59
88	21-Mar	1939	3658.9	7440.5	X26841.9	Y41469.1	229	47	11.25
89	21-Mar	2125	3653.7	7448.5	X26871.2	Y41398.1	144	30.6	9.02
90	21-Mar	2342	3644.1	7440.8	X26827.1	Y41314.7	192	59.1	9.92
91	22-Mar	152	3638.9	7447.8	X26851.2	Y41244.7	259	28.4	9.47
92	22-Mar	456	3623.9	7509.2	X26922.5	Y41036.7	80	17.8	10.57
93	22-Mar	717	3624.2	7448.5	X26838.1	Y41093.8	194	48.4	12.17
94	22-Mar	923	3618.2	7446.9	X26825.4	Y41037.5	8	111	12.67
95	22-Mar	1125	3612.1	7452	X26839.8	Y40962.5	216	43.7	11
96	22-Mar	1247	3608.5	7456.8	X26855.4	Y40913.3	174	23.2	10.35

NOAA Fisheries Service NEFSC SPRING BOTTOM TRAWL SURVEY
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
97	22-Mar	1559	3600.5	7447.8	X26811.9	Y40860.4	184	120.6	5.51
98	22-Mar	1840	3541.4	7452.7	X26813.6	Y40663.7	255	36.6	12.48
99	22-Mar	2052	3536.6	7508.1	X26866.8	Y40567.7	243	19.1	11.5
100	22-Mar	2301	3531.7	7522.9	X26916.1	Y40470.8	180	9.8	10.94
101	23-Mar	26	3525.5	7527.5	X26926.2	Y40395.7	173	6.6	17.34
102	23-Mar	325	3503.8	7523.9	X26891.9	Y40211.1	53	18.3	
103	23-Mar	612	3509	7532.2	X26925.8	Y40224.9	248	8.2	14.42
104	23-Mar	727	3504.1	7539.7	X26946.6	Y40151.3	278	13.4	16.71
105	23-Mar	851	3508.2	7546.4	X26973.9	Y40163.1	242	8.5	14.69
106	23-Mar	1010	3503.6	7551.2	X26985.4	Y40101.9	188	11.5	14.8
107	23-Mar	1306	3441.6	7601.3	X26995.3	Y39865.5	145	18.9	16.29
108	23-Mar	1448	3433.4	7555.3	X26967.5	Y39825.5	41	26	20.13
109	23-Mar	1701	3437.3	7541	X26924.6	Y39919.4	29	70.8	18.57
110	23-Mar	1833	3442.4	7536	X26912.9	Y39982.2	43	77.9	18.24
111	23-Mar	2051	3453.6	7534.8	X26919.6	Y40079.1	42	25.7	19.7
112	23-Mar	2219	3453.8	7528.7	X26899.1	Y40106.3	44	41.8	
113	24-Mar	56	3506.7	7513.3	X26857.9	Y40277.5	43	50.9	15.21
114	24-Mar	511	3536.2	7526	X26932.3	Y40504.1	348	8.2	10.71
115	24-Mar	658	3543.5	7516.9	X26906.3	Y40605.6	5	18.9	10.68
116	24-Mar	844	3546.3	7524.8	X26938.9	Y40607.5	2	9.6	10.58
117	24-Mar	1129	3608.5	7530.5	X26987.2	Y40818.4	329	13.1	10.12
118	24-Mar	1331	3618.5	7538.2	X27030.5	Y40905.1	276	11.8	10.04
119	24-Mar	1505	3620.2	7546.4	X27064.7	Y40902.5	351	8.5	10.14
120	24-Mar	1638	3621.8	7548.1	X27073.7	Y40915.5	354	5.7	10.61
121	24-Mar	1751	3627.6	7548.7	X27084.7	Y40979.1	357	7.4	10.27
122	24-Mar	1950	3638.1	7548.9	X27102.1	Y41095.7	2	9.6	9.84
123	24-Mar	2215	3648.5	7538.9	X27078.2	Y41233.6	9	11.5	9.26
124	25-Mar	302	3729.5	7527.5	X27099.5	Y41717.0	359	9	8.52
125	25-Mar	524	3736.2	7533.9	X27140.9	Y41783.9	10	4.6	8.48
126	25-Mar	706	3738.4	7521.2	X27086.8	Y41827.6	61	8.7	8.16
127	25-Mar	849	3746.4	7512.9	X27062.5	Y41930.2	21	9.8	8.05
128	25-Mar	1038	3756.3	7503.9	X27037.1	Y42053.8	52	12.6	7.87
129	25-Mar	1234	3758.2	7505.4	X27048.4	Y42073.9	46	10.7	7.92
130	25-Mar	1408	3802.7	7454.1	X27000.2	Y42138.2	327	13.9	7.95
131	25-Mar	1609	3808.2	7508	X27080.8	Y42183.2	15	7.7	7.75
132	25-Mar	1731	3815.2	7506.6	X27088.0	Y42264.2	25	5.7	7.87
133	25-Mar	1924	3820.6	7451.5	X27020.4	Y42340.6	351	10.9	7.48
134	25-Mar	2041	3823.5	7457	X27054.9	Y42367.0	11	9.3	7.47
135	25-Mar	2139	3827	7453.2	X27041.8	Y42410.1	22	11.5	7.45
136	25-Mar	2337	3833.6	7400.6	X26760.3	Y42524.2	70	8.5	7.59
137	26-Mar	1025	4000.2	7319.3	X26619.1	Y43407.7	293	29.3	6.91
138	26-Mar	1339	4007.3	7352.4	X26880.5	Y43500.4	7	13.1	6.24
139	26-Mar	1509	4008.9	7345.3	X26831.6	Y43510.6	346	17.5	6.41
140	26-Mar	1656	4017	7341.9	X26825.1	Y43589.2	336	14.2	6.04
141	26-Mar	1902	4030.5	7340	X26843.7	Y43718.7	304	10.1	6.02
142	26-Mar	2026	4029.1	7342.9	X26862.6	Y43708.3	154	13.9	6.07
143	26-Mar	2215	4028.8	7331	X26768.0	Y43693.2	121	12	6.02
144	26-Mar	2345	4026.3	7325.7	X26719.9	Y43663.2	95	15.9	5.84

NOAA Fisheries Service NEFSC SPRING BOTTOM TRAWL SURVEY
2008 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
145	27-Mar	156	4021	7307.2	X26561.8	Y43594.5	64	20.2	5.73
146	27-Mar	348	4028.3	7254.2	X26470.8	Y43648.1	91	21.9	5.36
147	27-Mar	559	4040.8	7258.7	X26531.2	Y43765.5	63	6.6	5.33
148	27-Mar	831	4036.6	7231	X26292.8	Y43694.8	103	22.7	6.06
149	27-Mar	1021	4025.9	7231.5	X26282.7	Y43602.9	126	26	5.85
150	27-Mar	1134	4024.8	7230.7	X26275.0	Y43593.0	125	26.5	6.03
151	27-Mar	1314	4019.1	7221.5	X26195.5	Y43534.0	124	30.9	6.15
152	27-Mar	1526	4011	7207.7	X26083.6	Y43452.8	73	35.5	8.6
153	27-Mar	1713	4014.4	7156.6	X25998.2	Y43472.5	15	35.8	8.03
154	27-Mar	1828	4018.5	7155.4	X25989.3	Y43505.5	30	36.1	7.69
155	31-Mar	1638	4123	7106.4	X25634.1	Y43935.8	217	14.8	4.86
156	31-Mar	1946	4103.8	7131	X25813.9	Y43834.2	295	15.9	6.11
157	31-Mar	2208	4059.1	7155.9	X26026.3	Y43833.1	232	12.3	5.42
158	31-Mar	2329	4058	7155.8	X26023.3	Y43824.5	76	14.2	5.46
159	1-Apr	142	4058.7	7145.1	X25930.5	Y43814.8	84	24.6	6.33
160	1-Apr	507	4101.6	7116.6	X25683.9	Y43798.4	164	24.9	5.74
161	1-Apr	707	4051.5	7108.2	X25604.5	Y43714.1	56	33.4	5.33
162	1-Apr	921	4103.8	7054.9	X25494.3	Y43786.6	98	19.4	
163	1-Apr	1131	4101.2	7039.1	X25355.3	Y43748.9	106	24.6	4.96
164	1-Apr	1306	4058.3	7029.2	X25275.1	Y43717.4	114	24.6	4.73
165	1-Apr	1539	4114	7031.2	X25293.1	Y43825.6	158	18.9	5.08
166	1-Apr	1832	4106.8	7012.6	X25127.7	Y43755.1	139	13.9	4.47
167	2-Apr	629	4102.8	7007.6	X25101.1	Y43722.9	218	12.3	4.79
168	2-Apr	834	4055.7	7011.3	X25148.0	Y43679.6	230	15.6	4.63
169	2-Apr	1227	4028.8	7037.5	X25395.7	Y43516.3	271	40.7	5.64
170	2-Apr	1516	4030.1	7100.6	X25558.7	Y43547.0	90	42.7	6.29
171	2-Apr	1829	4011.7	7036.7	X25433.0	Y43390.0	181	66.7	12.14
172	2-Apr	2058	4000.2	7036.1	X25457.9	Y43304.1	73	126.9	10.67
173	2-Apr	2349	4006.3	7011.6	X25311.8	Y43334.6	258	79.6	11.85
174	3-Apr	221	4000.6	7008.7	X25315.5	Y43292.2	131	106.6	10.48
175	3-Apr	449	3959.4	6953	W14194.9	Y43275.2	334	80.4	12.65
176	3-Apr	725	4013.2	7000.9	X25241.2	Y43377.5	264	53	9.59
177	3-Apr	944	4018.8	7016.2	X25296.3	Y43427.7	75	48.4	10.16
178	3-Apr	1258	4031.1	6946	W14056.3	Y43489.7	83	36.9	5.47
179	3-Apr	1426	4026.4	6941	W14046.4	Y43454.6	161	38	5.45
180	3-Apr	1554	4019.2	6936.5	W14048.1	Y43402.9	216	40.7	5.79
181	3-Apr	1704	4016.5	6939	W14069.6	Y43386.0	102	42.7	6.13
182	3-Apr	2311	4007.5	6835	W13790.7	Y43292.4	243	119.8	7.68
183	4-Apr	152	4015.6	6821.5	W13699.9	Y43336.4	44	88	11.66
184	4-Apr	355	4020.8	6812	W13637.8	Y43362.5	5	80.9	11.87
185	4-Apr	632	4036.4	6757.8	W13513.1	Y43447.3	294	48.1	6.67
186	4-Apr	800	4038.7	6806.8	W13544.2	Y43466.5	359	46.2	7.61
187	4-Apr	1054	4053.9	6802.1	W13460.4	Y43551.3	57	26.8	5.23
188	4-Apr	1231	4056.1	6753	W13410.5	Y43557.2	63	31.7	5.3
189	4-Apr	1403	4059	6744.8	W13361.8	Y43567.4	155	32.3	5.31
190	4-Apr	1804	4039.5	6739.1	W13419.3	Y43453.4	165	42.9	5.04
191	4-Apr	2002	4039.2	6726.8	W13368.4	Y43444.4	118	51.4	5.45
192	4-Apr	2239	4031.7	6713.1	W13342.9	Y43395.2	51	89.1	12.95

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193	5-Apr	257	4051.5	6650.8	W13171.5	Y43490.1	356	51.9	5.07
194	5-Apr	522	4053.5	6700.6	W13201.2	Y43506.7	3	47.6	4.57
195	5-Apr	922	4108.8	6738.6	W13291.7	Y43616.7	353	29	5.28
196	5-Apr	1131	4121	6741	W13246.4	Y43685.1	59	20.5	5.33
197	5-Apr	1300	4123.4	6735.2	W13210.1	Y43692.6	35	21.1	5.34
198	5-Apr	1529	4136.3	6722.7	W13095.4	Y43749.2	132	18.6	5.36
199	5-Apr	1946	4109	6653.3	W13103.9	Y43583.7	180	39.4	5.04
200	5-Apr	2219	4100.9	6633	W13062.1	Y43528.8	21	50.6	8.98
201	6-Apr	121	4059	6626.6	W13046.5	Y43514.8	28	181.3	6.25
202	6-Apr	339	4108.5	6622.1	W12988.1	Y43560.3	30	69.4	6.07
203	6-Apr	656	4116.3	6645.1	W13038.6	Y43615.6	69	41.6	4.96
204	6-Apr	825	4118.6	6636.9	W12996.7	Y43621.5	10	47.3	4.91
205	6-Apr	941	4124	6634.8	W12963.8	Y43646.9	332	48.1	4.81
206	6-Apr	1145	4136.1	6644.1	W12941.2	Y43714.8	276	39.6	4.94
207	6-Apr	1424	4138.6	6700.9	W12994.5	Y43741.7	35	32	5.08
208	6-Apr	1808	4151.3	6649	W12884.8	Y43793.9	69	34.2	4.75
209	7-Apr	1446	4155.4	6639.3	W12827.7	Y43804.8	44	41.6	4.9
210	7-Apr	1825	4151.1	6635.2	W12833.9	Y43780.4	61	41.6	4.74
211	7-Apr	2337	4136.2	6627.5	W12878.8	Y43701.5	71	46.5	4.56
212	8-Apr	347	4117.5	6620.3	W12940.6	Y43604.2	61	54.4	4.58
213	8-Apr	532	4120.8	6615	W12906.6	Y43616.6	61	68.9	5.49
214	8-Apr	936	4124.3	6600	W12837.4	Y43623.8	204	160.2	7.47
215	8-Apr	1300	4136.4	6559.8	W12779.7	Y43681.7	283	51.9	6.9
216	8-Apr	1524	4138.6	6610.7	W12806.9	Y43700.3	29	50.3	4.34
217	8-Apr	1649	4143.6	6608.6	W12775.2	Y43722.6	59	48.7	4.11
218	8-Apr	1911	4146.5	6552.8	W12708.0	Y43723.8	339	65.6	5.55
219	8-Apr	2032	4151.5	6556.9	W12697.5	Y43750.0	347	52.8	5.17
220	8-Apr	2150	4156.6	6558.8	W12678.6	Y43775.2	340	51.4	5.44
221	8-Apr	2323	4203.4	6602.4	W12656.0	Y43809.7	271	53	6.08
222	9-Apr	111	4200.8	6614.4	W12710.2	Y43808.3	345	44	4.82
223	9-Apr	231	4205.9	6610.1	W12669.5	Y43827.9	300	51.9	5.07
224	9-Apr	438	4208.8	6619.1	W12685.7	Y43849.4	52	97.6	5.78
225	9-Apr	625	4211.8	6613.9	W12651.8	Y43858.5	301	112.4	7.16
226	9-Apr	835	4213.3	6630.7	W12703.5	Y43880.9	348	128.2	7.3
227	9-Apr	1125	4221.8	6622.3	W12628.3	Y43911.5	292	144.1	7.25
228	9-Apr	1406	4226.3	6635.9	W12652.6	Y43945.6	270	172.5	6.97
229	9-Apr	1643	4226.2	6648.6	W12699.6	Y43958.7	154	189.2	6.66
230	9-Apr	1902	4213.9	6640.3	W12735.3	Y43893.0	254	126.9	7.25
231	9-Apr	2044	4210.7	6651.4	W12794.1	Y43889.0	275	96.8	5.9
232	9-Apr	2220	4209.1	6657.9	W12827.5	Y43888.5	280	48.1	5.16
233	10-Apr	40	4200.4	6709.9	W12920.7	Y43858.5	22	27.6	5.17
234	10-Apr	305	4152.7	6706.5	W12947.1	Y43816.8	151	29	5.21
235	10-Apr	507	4147.5	6715.9	W13011.7	Y43799.9	183	29	5.34
236	10-Apr	710	4143	6729.7	W13091.6	Y43790.5	1	25.2	5.46
237	10-Apr	911	4155	6725	W13011.3	Y43846.9	357	24.3	5.23
238	10-Apr	1100	4206.6	6724	W12947.0	Y43903.1	257	44.8	5.38
239	10-Apr	1428	4158	6755.3	W13128.8	Y43894.0	198	74.6	5.61
240	10-Apr	1634	4143.8	6751.8	W13184.9	Y43816.7	223	14.8	

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241	16-Apr	1524	4133.5	6933.6	W13742.4	Y43875.4	111	25.4	4.27
242	16-Apr	1654	4131.7	6927.2	W13716.1	Y43856.4	132	30.9	4.28
243	16-Apr	1920	4122	6929.2	W13769.3	Y43800.8	157	16.4	5.27
244	16-Apr	2107	4113.6	6922.8	W13771.3	Y43742.3	132	25.2	5.28
245	16-Apr	2312	4107.2	6912.9	W13746.7	Y43692.0	158	29.8	5.21
246	17-Apr	340	4054.1	6935.5	W13917.3	Y43632.4	132	20	5.39
247	17-Apr	622	4057.4	6906.8	W13756.1	Y43626.0	67	41.6	5.18
248	17-Apr	816	4103.7	6854.7	W13668.8	Y43653.5	182	38.5	5.85
249	17-Apr	944	4058.8	6850.7	W13669.3	Y43619.9	227	35.3	6
250	17-Apr	1215	4040.8	6857.4	W13774.7	Y43514.7	76	36.4	5.73
251	17-Apr	2035	4051.7	6837.1	W13632.8	Y43565.7	298	30.9	6.05
252	17-Apr	2317	4057.5	6847.7	W13660.4	Y43609.4	86	35.3	6.09
253	18-Apr	457	4116.8	6838	W13529.8	Y43714.5	106	33.1	6.02
254	18-Apr	711	4116.3	6826.8	W13477.2	Y43701.0	57	29.8	6.13
255	18-Apr	855	4121.3	6816.8	W13407.3	Y43719.5	46	25.7	6.17
256	18-Apr	1036	4126.1	6806.7	W13338.3	Y43736.3	348	23.2	6.32
257	18-Apr	1432	4148.4	6811.4	W13252.0	Y43861.9	243	48.4	5.19
258	18-Apr	1626	4144.2	6823.9	W13332.8	Y43853.0	255	93.8	5.17
259	18-Apr	1951	4132.3	6857	W13554.2	Y43824.6	48	72.2	5.02
260	18-Apr	2238	4146.4	6836.7	W13384.1	Y43879.9	14	91.9	5.99
261	19-Apr	120	4201.1	6826.7	W13260.7	Y43947.2	350	90.8	6.28
262	19-Apr	333	4210.6	6832.8	W13241.1	Y44004.3	321	89.7	5.65
263	19-Apr	531	4221	6834.2	W13191.8	Y44059.4	66	94.9	6.3
264	19-Apr	907	4226.2	6800.6	W13001.2	Y44041.8	131	96	6.9
265	19-Apr	1138	4218.8	6746.5	W12978.4	Y43988.5	44	119.8	7.23
266	19-Apr	1438	4230.7	6722.5	W12808.9	Y44017.0	59	169.2	6.86
267	19-Apr	1801	4242.6	6733.7	W12788.0	Y44085.4	308	107.2	6.95
268	19-Apr	2048	4253.5	6749.4	W12792.1	Y44155.2	40	113.2	7.21
269	19-Apr	2258	4258.7	6736.5	W12704.1	Y44161.7	123	111.5	6.93
270	20-Apr	151	4250.2	6720.8	W12689.1	Y44104.2	341	121.7	7.06
271	20-Apr	609	4329	6723.4	W12459.4	Y44272.9	35	118.4	6.98
272	20-Apr	901	4338.7	6709.2	W12341.7	Y44292.9	15	82.6	6.72
273	20-Apr	1052	4346.2	6703.1	W12269.8	Y44314.0	41	79	5.29
274	20-Apr	1255	4356.6	6651.1	W12159.1	Y44338.0	151	64.5	5.07
275	20-Apr	1440	4346.6	6643.7	W12200.6	Y44290.7	144	50.6	4.67
276	20-Apr	1700	4336.9	6637.8	W12243.1	Y44246.0	147	66.7	4.33
277	20-Apr	1856	4324	6640.8	W12333.5	Y44198.7	148	63.7	5.08
278	20-Apr	2204	4318.4	6634.2	W12345.6	Y44168.2	314	52.2	3.84
279	21-Apr	3	4318.3	6624.1	W12313.3	Y44155.6	283	31.2	3.8
280	21-Apr	340	4344.9	6627.4	W12159.5	Y44263.9	7	39.4	4.03
281	21-Apr	728	4404.2	6635.2	W12058.6	Y44345.4	237	53.6	4.54
282	21-Apr	1019	4414.5	6658.9	W12063.7	Y44413.3	222	91.9	5.78
283	21-Apr	1311	4416.2	6713	W12099.8	Y44438.7	268	105.3	6.69
284	21-Apr	1607	4413.3	6746.2	W12249.7	Y44475.1	57	59.3	4.82
285	21-Apr	1843	4402	6741	W12308.0	Y44426.4	23	111.5	7.08
286	21-Apr	2157	4351	6746.4	W12407.7	Y44392.0	218	120	7.03
287	22-Apr	130	4331.1	6804.8	W12624.4	Y44339.4	31	105.8	7.09
288	22-Apr	335	4340.8	6800.6	W12540.0	Y44372.5	351	95.1	7.17

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289	22-Apr	729	4353.3	6809.7	W12495.8	Y44435.4	221	95.4	5.08
290	22-Apr	1007	4350.3	6827.3	W12601.9	Y44450.5	67	67.5	4.85
291	22-Apr	1901	4357.4	6818.5	W12508.9	Y44464.5	87	55.2	4.67
292	23-Apr	127	4346.5	6923.1	W12930.8	Y44526.4	178	44.8	3.72
293	23-Apr	435	4326.5	6910	W12988.4	Y44421.5	241	83.7	5.43
294	23-Apr	617	4323.7	6918.6	W13054.9	Y44423.8	161	85.8	5.56
295	23-Apr	958	4311.6	6911.5	W13092.4	Y44358.1	229	103.6	5.73
296	23-Apr	1257	4306.7	6917.2	W13154.0	Y44345.4	214	114	5.68
297	23-Apr	1633	4251.4	6901.9	W13162.6	Y44248.8	359	97.3	5.43
298	23-Apr	2013	4256	6832.3	W12980.3	Y44226.5	323	105.3	6.79
299	23-Apr	2328	4255.8	6821.4	W12927.6	Y44209.7	155	91	6.49
300	24-Apr	224	4238.2	6825.9	W13053.6	Y44133.1	295	110.7	7.12
301	24-Apr	554	4246.4	6844.3	W13098.7	Y44198.6	239	107.4	7.1
302	24-Apr	901	4223.6	6849.1	W13253.5	Y44092.9	236	109.1	6.95
303	24-Apr	1301	4238.6	6918.3	W13327.1	Y44211.7	308	120	6.96
304	24-Apr	1527	4236.8	6936.6	W13440.6	Y44231.7	134	156.7	7
305	24-Apr	1757	4224.3	6932.2	W13484.0	Y44160.0	121	132.1	7.01
306	28-Apr	1937	4146.2	7023.1	X25384.9	Y44021.6	78	8.7	4.96
307	28-Apr	2146	4156.3	7009	X25369.3	Y44060.3	11	11.5	4.42
308	29-Apr	20	4156.3	7028.7	X25490.1	Y44091.5	1	17	3.78
309	29-Apr	151	4158.5	7028.8	X25505.2	Y44104.8	18	20.5	3.77
310	29-Apr	315	4203.5	7023.8	X25506.6	Y44126.3	69	29.3	3.67
311	29-Apr	446	4206.1	7013.5	X25463.9	Y44124.5	59	31.4	3.93
312	29-Apr	824	4216.2	7016.4	X25550.2	Y44187.0	268	19.1	4.79
313	29-Apr	1027	4216	7033.1	X25648.4	Y44214.6	274	28.4	3.89
314	29-Apr	1434	4221.7	7038.1	X25717.2	Y44255.7	328	35.3	
315	29-Apr	1612	4223	7042.2	X25752.3	Y44270.8	321	26.5	
316	29-Apr	1913	4223.7	7042.4	X25757.2	Y44274.7	348	25.4	3.82
317	29-Apr	2231	4223	7044.6	X25767.1	Y44274.6	335	21.3	3.84
318	30-Apr	143	4233.4	7029	X25735.8	Y44303.9	34	51.7	4.18
319	30-Apr	417	4237.7	7022.6	X25726.8	Y44315.1	296	37.7	3.76
320	30-Apr	719	4239.9	7022.2	X25738.6	Y44325.9	219	38.5	
321	30-Apr	1010	4244.4	7038	X25857.3	Y44378.7	304	27.6	8.91
322	30-Apr	1218	4241.9	7042.3	X25868.2	Y44373.6	309	7.1	
323	30-Apr	1419	4251.2	7045.3	X25942.0	Y44427.7	171	14.8	4.17
324	30-Apr	1717	4250	7031.1	X25851.4	Y44394.6	31	59.3	3.97
325	30-Apr	2027	4308.8	7014.8	X25876.0	Y44455.7	4	68.9	4.64
326	30-Apr	2313	4322.8	7011.7	X25940.6	Y44513.8	163	52.2	3.8
327	1-May	237	4321.4	6946.8	W13235.8	Y44462.5	219	94.3	5.2
328	1-May	524	4305.6	7000.9	X25790.3	Y44415.1	5	59.1	4.18
329	1-May	737	4303.8	6954.6	W13391.0	Y44395.7	181	111.5	6.6
330	1-May	921	4253.2	6958.7	W13478.2	Y44351.8	202	102	5.07
331	1-May	1215	4236	7005.1	X25624.5	Y44275.0	182	57.7	4.19
332	1-May	1426	4238	6958	W13560.3	Y44273.3	180	93	6.04
333	1-May	1959	4210.9	6951.9	W13667.2	Y44117.8	75	112.4	5.81
334	1-May	2302	4221.4	6922.7	W13446.1	Y44130.0	76	127.1	6.97
335	2-May	54	4216.2	6912.6	W13418.1	Y44087.9	163	112.6	6.92
336	2-May	439	4148.6	6911.6	W13553.6	Y43934.9	267	105.5	5.83

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337	2-May	837	4154.2	6956.7	W13776.3	Y44029.8	169	9.3	6.43
338	2-May	1035	4143.2	6945	W13761.2	Y43948.3	158	37.7	4.33
339	2-May	1508	4142.7	6946.6	W13772.6	Y43947.5	130	31.4	4.32
340	2-May	1841	4115.7	6931.4	W13807.9	Y43764.5	204	11.5	6.72
341	2-May	2000	4110.6	6932.6	W13835.8	Y43734.3	242	11.8	6.9
342	2-May	2147	4104	6931.1	W13854.9	Y43690.8	220	17.5	6.49
343	2-May	2340	4055.6	6930.3	W13884.0	Y43637.1	242	23.2	6.57
344	3-May	248	4113.3	6940.7	W13868.4	Y43760.0	351	10.1	6.42

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

STATION	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
1	0	0	0	0	4	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	12	0	47	96
2	0	0	0	1	23	0	33	55	0	0	0	0	0	33	0	0	0	1	0	0	3	3	4	0	72	228
3	0	0	0	0	12	0	7	227	0	0	0	0	0	3	13	1	0	0	3	0	2	5	1	0	9	283
4	0	1	0	0	2	0	0	110	0	0	0	0	0	11	0	0	40	549	0	0	5	6	1	0	13	738
5	0	0	0	0	0	0	0	626	1	0	0	0	0	1	0	0	41	53	4	6	0	0	0	0	2	734
6	0	0	0	0	0	0	0	27	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	31
7	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	20	326	0	0	0	0	0	352
8	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	42	294	0	0	0	0	0	342
9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	14	241	0	0	0	0	1	260
10	0	0	0	0	0	0	0	0	0	7	0	0	2	0	0	0	0	0	44	486	0	0	0	0	0	539
11	0	0	0	0	0	0	0	0	0	8	0	0	3	0	0	0	0	0	28	428	0	0	0	0	1	468
12	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	19	243	0	0	0	0	2	269
13	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	63	439	0	1	0	0	0	514
14	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	2	0	7	28	0	0	0	0	0	46
15	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5	0	0	10	0	0	0	0	0	17
16	0	0	0	0	0	0	0	0	0	11	0	0	3	0	0	0	1	0	39	671	0	0	0	0	6	731
17	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	118	4	0	3	0	0	0	0	2	129
18	0	0	0	0	0	0	0	0	0	9	0	0	4	0	0	0	0	0	40	539	0	0	0	0	12	604
19	0	0	0	0	0	0	0	5	0	97	0	0	9	0	0	0	0	0	260	142	0	0	0	0	107	620
20	11	0	0	0	0	0	0	24	0	24	0	0	5	0	0	0	0	0	108	81	0	15	0	0	56	324
21	0	0	0	0	0	0	0	0	0	15	0	0	9	0	0	0	2	0	5	406	0	2	0	0	7	446
22	0	0	0	0	0	0	0	5	0	9	0	0	13	0	0	0	1	0	9	128	0	0	0	0	26	191
23	0	0	0	0	0	0	0	19	0	5	0	0	1	0	0	0	3	0	0	31	0	0	0	0	0	59
24	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	3	0	13	58	0	0	0	0	0	79
25	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	24	174	0	0	0	0	14	218
26	0	0	0	0	0	0	0	6	0	0	0	0	2	0	0	0	1	0	11	101	0	0	0	0	0	121
27	0	0	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0	10	81	0	0	0	0	1	98
28	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	19	93	0	0	0	0	0	116
29	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	6	27	0	0	0	0	0	60
30	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	3	94	0	0	0	0	13	114
31	0	0	0	0	0	0	0	82	0	0	0	0	1	0	0	0	0	0	49	25	0	0	0	0	0	157
32	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0	0	5	109	0	0	0	0	21	148
33	0	0	0	0	0	0	0	0	0	9	0	0	14	2	0	0	2	0	0	117	0	0	0	0	15	159
34	0	0	0	0	0	0	0	47	0	0	0	0	1	1	0	0	0	0	15	1	0	0	0	0	21	86
35	0	0	0	0	0	0	0	46	0	3	0	0	6	2	0	0	0	0	26	118	0	0	0	0	130	331
36	0	0	0	0	0	0	0	477	0	0	0	0	0	6	0	0	2	0	0	0	0	0	0	0	29	514
37	0	0	0	0	0	0	0	261	0	0	0	0	0	3	0	0	0	11	0	0	0	0	0	0	51	326

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
38	0	0	0	0	0	0	0	1273	0	0	0	0	0	9	0	0	0	2	0	1	0	0	0	0	2	1287
39	0	0	0	0	1	0	0	842	0	0	0	0	0	7	0	0	0	0	0	14	0	0	0	0	12	876
40	0	0	0	0	0	0	0	549	0	0	0	0	2	0	0	0	2	0	25	17	0	0	0	0	1	596
41	0	0	0	0	1	0	0	2417	0	0	0	0	1	4	0	0	0	0	0	30	0	0	0	0	1	2454
42	0	0	0	0	0	0	0	2965	0	0	0	0	0	2	0	0	0	0	0	5	4	0	0	0	3	2979
43	0	0	0	0	0	0	2	86	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8	1	8	106
44	0	0	0	0	0	0	0	544	0	0	0	0	0	1	0	4	0	0	0	0	0	0	18	0	6	573
45	0	0	0	0	0	0	0	1818	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7	1827
46	0	0	0	0	1	0	0	39	0	0	0	0	0	7	0	0	0	0	0	1	1	0	1	0	4	54
47	0	0	0	0	1	0	0	891	0	0	0	0	0	9	0	0	4	9	0	0	3	0	0	0	7	924
48	0	0	0	0	0	0	0	1421	0	0	0	0	0	2	0	0	0	1	0	1	356	0	1	0	5	1787
49	0	0	0	0	0	0	0	599	0	0	0	0	2	0	0	0	0	1	0	14	1	0	0	0	1	618
50	0	0	0	0	2	0	0	482	0	0	0	0	0	1	0	0	2	1	0	23	0	0	0	0	125	636
51	0	0	0	0	2	0	0	646	0	0	0	0	0	8	0	5	0	0	1	37	8	0	1	0	77	785
52	0	0	0	0	5	0	2	548	0	0	0	0	0	2	8	9	0	0	0	44	1	0	0	0	155	774
53	0	0	0	0	1	0	0	338	0	0	0	0	0	4	37	1	0	0	0	28	0	0	1	0	72	482
54	0	0	0	0	0	0	0	747	0	0	0	0	0	5	2	0	0	1	0	0	1	0	4	0	19	779
55	0	0	0	0	0	0	0	1410	0	1	0	0	0	0	0	0	28	321	0	0	0	0	0	0	1	1761
56	0	0	0	0	0	0	0	12	0	0	0	0	0	2	0	0	8	0	0	0	0	0	0	0	0	22
57	0	0	0	0	0	0	0	164	0	1	0	0	0	0	0	0	0	12	0	0	0	0	0	0	13	190
58	0	0	0	0	0	0	0	300	2	0	0	0	1	0	0	0	0	1	0	36	0	0	0	0	7	347
59	0	0	0	0	3	0	0	2322	0	2	0	0	0	0	0	0	390	2108	0	16	0	2	0	0	105	4948
60	0	0	0	0	1	0	0	666	1	0	0	0	0	2	0	0	67	20	0	200	0	0	0	0	15	972
61	0	0	0	0	2	0	0	2021	0	0	0	0	0	16	58	0	0	1	0	11	1	0	1	0	14	2125
62	0	0	0	0	3	0	0	25	0	0	0	0	0	16	190	4	0	0	0	0	25	0	7	0	5	275
63	0	0	0	0	1	0	0	259	0	0	0	0	0	7	0	0	0	0	0	0	81	0	15	0	9	372
64	0	0	0	0	0	0	10	218	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	26	256
65	0	0	0	0	1	0	4	742	0	0	0	0	0	2	0	1	0	183	0	5	11	0	13	0	30	992
66	0	0	0	0	0	0	0	769	0	0	0	0	0	0	0	0	0	2	0	0	6	0	5	0	17	799
67	0	0	0	0	7	0	0	483	0	0	0	1	0	0	0	0	0	0	0	0	0	7	0	0	10	508
68	0	0	0	0	0	0	0	1215	0	0	0	0	0	19	1	0	0	0	0	0	0	0	13	0	3	1251
69	0	0	0	0	0	0	0	1550	0	0	0	0	0	4	0	0	0	0	0	0	0	0	8	0	7	1569
70	0	0	0	0	6	0	4	2254	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	20	2289
71	0	0	0	0	0	0	0	1097	0	0	0	0	0	4	0	0	0	0	0	21	0	0	0	0	23	1145
72	0	0	0	0	0	0	0	217	0	0	0	0	0	2	0	0	0	0	6	21	0	0	0	0	4	250
73	0	0	0	0	0	0	0	1202	0	0	0	0	0	4	0	0	0	0	5	0	0	0	4	0	15	1230
74	0	0	0	0	0	0	0	962	0	0	0	0	0	3	0	0	0	0	0	0	0	0	9	0	14	988
75	0	0	0	0	0	0	0	557	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	3	0	653

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
76	0	0	0	0	0	0	0	114	0	0	0	0	1	4	0	0	0	0	9	8	0	0	0	0	1	137
77	0	0	0	0	0	0	0	170	0	0	0	0	0	2	0	0	0	0	16	14	0	0	0	0	29	231
78	0	0	0	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	23	105
79	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	0	39	5	0	0	0	0	3	109
80	0	0	0	0	0	0	0	96	0	0	0	0	2	1	0	0	0	0	14	4	0	0	0	0	23	140
81	0	0	0	0	0	0	0	73	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	618	692
82	0	0	0	0	0	0	0	77	0	0	0	0	0	3	0	0	6	0	0	0	0	0	0	0	9	95
83	0	0	0	0	0	0	0	133	0	0	0	0	0	3	0	0	1	0	46	0	0	0	0	0	474	657
84	0	0	0	0	0	0	0	687	0	0	0	0	0	4	0	0	0	1	0	0	4	0	0	0	16	712
85	0	0	0	0	0	0	0	582	0	0	0	0	0	1	0	0	0	0	8	0	22	0	9	0	4	626
86	0	0	0	0	0	0	0	347	0	0	0	0	0	4	0	0	0	0	0	0	0	0	8	0	0	359
87	0	0	0	0	24	0	15	1826	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	0	10	1886
88	0	0	0	0	0	0	0	470	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	86	565
89	0	0	0	0	0	0	0	292	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	296
90	0	0	0	0	0	0	0	1771	0	0	0	0	0	0	0	1	0	0	0	0	0	0	106	2	80	1960
91	0	0	0	0	0	0	0	752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8	762
92	0	0	0	0	0	0	0	483	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	13	497
93	0	0	0	0	0	0	0	824	0	0	0	0	0	3	0	0	0	0	0	0	0	0	25	0	11	863
94	0	0	0	0	0	0	0	449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1	96	563
95	0	0	0	0	0	0	14	275	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	2	21	475
96	0	0	0	0	0	0	0	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	75	266
97	0	0	0	0	0	0	7	268	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	173	520
98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	299	318
99	0	0	0	0	0	0	0	315	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	180	497
100	0	0	0	0	0	0	0	917	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	924
101	0	0	0	0	0	0	0	907	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	996
102	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1725	1736
103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	903	922
104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	296	302
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	1	0	54	62
106	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	6	0	33	41
107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	59	65
108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	23	31
109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0	19	0	39	112
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	5	0	77	85
111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	498	501
112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	0	436	442
113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	82	94

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
114	0	0	0	0	0	0	0	1601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	1649
115	0	0	0	0	0	0	0	50	0	0	0	0	0	1	0	0	0	0	0	0	17	0	1	0	49	118
116	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	138
117	0	0	0	0	0	0	0	518	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	8	531
118	0	0	0	0	0	0	0	470	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	23	495
119	0	0	0	0	0	0	0	331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	386	717
120	0	0	0	0	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	118
121	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151	202
122	0	0	0	0	0	0	0	164	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	32	213
123	0	0	0	0	0	0	0	57	0	0	0	0	0	1	0	0	0	0	36	0	0	0	0	0	13	107
124	0	0	0	0	0	0	0	85	0	0	0	0	0	1	0	0	0	0	120	1	0	0	0	0	4	211
125	0	0	0	0	0	0	0	118	0	0	0	0	1	5	0	0	0	0	20	0	0	0	0	0	17	161
126	0	0	0	0	0	0	0	76	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	39	118
127	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0	0	2	113
128	0	0	0	0	0	0	0	74	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	3	82
129	0	0	0	0	0	0	0	115	0	0	0	0	1	0	0	0	0	0	39	16	1	0	2	0	21	195
130	0	0	0	0	0	0	0	146	0	0	0	0	0	0	0	0	19	0	0	0	2	0	0	0	4	171
131	0	0	0	0	1	0	0	191	0	0	0	0	1	3	0	0	0	0	33	51	1	0	0	0	28	309
132	0	0	0	0	0	0	0	183	0	0	0	0	2	4	0	0	0	0	22	37	0	0	0	0	23	271
133	0	0	0	0	0	0	0	31	0	0	0	0	3	0	0	0	0	0	11	67	0	0	0	0	1	113
134	0	0	0	0	0	0	0	76	0	0	0	0	1	1	0	0	1	0	18	148	0	0	0	0	9	254
135	0	0	0	0	0	0	0	109	0	0	0	0	1	0	0	0	0	0	18	56	0	0	0	0	1	185
136	0	0	0	0	0	0	0	132	0	0	0	0	2	0	0	0	0	0	59	185	0	0	0	0	18	396
137	0	0	0	0	4	0	0	916	0	3	0	0	0	1	0	0	3	11	0	4	0	0	0	0	71	1013
138	0	0	0	0	0	0	0	68	0	3	0	0	1	0	0	0	41	0	0	0	0	0	0	0	11	124
139	0	0	0	0	0	0	0	65	0	2	0	0	0	0	0	0	3	6	0	0	0	0	0	0	27	103
140	0	0	0	0	1	0	0	20	0	0	0	0	0	0	0	0	2	1	0	8	0	0	0	0	2	34
141	0	0	0	0	0	0	0	19	0	1	0	0	5	0	0	0	0	0	63	448	0	0	0	0	2	538
142	0	0	0	0	16	0	0	45	0	8	0	0	1	0	0	0	0	1	11	540	0	0	0	0	27	649
143	0	0	0	0	1	0	0	16	0	15	0	0	1	0	0	0	2	7	9	376	0	0	0	0	6	433
144	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	9	18	293	0	0	0	0	1	325
145	0	0	0	0	5	0	0	29	4	0	0	0	0	0	0	0	24	4	0	73	0	0	0	0	9	148
146	0	0	0	0	7	0	0	68	4	0	0	1	0	0	0	0	28	0	7	115	0	0	0	0	12	242
147	0	0	0	0	0	0	0	0	0	2	0	0	5	0	0	0	1	0	222	887	0	0	0	0	2	1119
148	0	0	0	0	1	0	0	54	1	0	0	0	1	0	0	0	0	0	0	5	0	0	0	0	4	66
149	0	0	0	0	1	0	0	115	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	12	131
150	0	0	0	0	0	0	0	86	3	0	0	0	0	2	0	0	0	1	0	1	0	0	0	0	9	102
151	0	0	0	0	0	0	0	419	1	0	0	0	0	0	0	0	5	288	5	1	0	0	0	0	4	723

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
152	0	0	0	0	3	0	0	30	0	0	0	0	0	7	0	0	5	41	0	1	8	1	1	0	45	142
153	0	0	0	0	0	0	0	48	0	0	0	0	0	11	0	0	1	1	0	0	18	0	1	0	28	108
154	0	0	0	0	2	0	0	136	0	0	0	1	0	7	0	0	30	1	0	25	4	0	0	0	50	256
155	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	5	0	0	4	0	0	0	0	7	19
156	0	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
157	0	0	0	0	0	0	0	0	0	14	0	0	5	5	0	0	16	0	37	134	0	0	0	0	3	214
158	0	0	0	0	3	0	0	0	0	31	0	1	13	3	0	0	5	0	94	408	0	0	0	0	4	562
159	0	0	0	0	30	0	0	18	1	10	0	0	0	0	0	0	6	0	8	590	3	0	0	0	67	733
160	0	0	0	0	1	0	0	0	37	0	0	0	6	2	0	0	5	4	0	5	0	0	0	0	22	82
161	0	0	0	0	3	0	0	4	1	0	0	0	0	5	0	0	15	0	14	2	0	0	0	0	2	46
162	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	2	0	0	0	0	8	14
163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	6
164	0	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
165	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	3	0	0	0	0	1	7
166	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4	10
167	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	8	0	0	0	0	0	0	0	5	15
168	0	0	0	0	0	0	0	0	0	4	0	0	1	0	0	0	0	0	10	341	0	0	0	0	9	365
169	0	0	0	0	1	0	4	13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	21
170	0	0	0	0	3	0	0	8	0	0	0	0	0	0	0	0	3	1	0	0	0	10	0	0	11	36
171	0	0	0	0	19	0	6	0	0	0	0	0	0	1	0	0	0	0	0	0	17	0	2	0	21	66
172	0	0	0	0	7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	18
173	0	0	0	0	15	0	5	0	0	0	0	0	0	5	0	0	0	0	0	0	5	0	2	0	26	58
174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	19	21
175	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	23	1	17	49
176	0	0	0	1	17	0	0	99	0	0	0	0	0	18	0	0	3	1	7	0	8	0	16	0	9	179
177	0	0	0	0	18	0	4	71	0	0	0	0	0	11	0	0	4	1	0	0	12	0	7	0	19	147
178	0	0	0	0	9	0	0	3	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	14	30
179	0	4	0	0	0	0	1	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	25
180	0	0	0	0	1	0	0	15	0	0	0	0	0	0	0	0	9	40	0	1	0	0	0	0	3	69
181	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	1	3	0	1	0	0	0	0	9	40
182	0	0	0	0	5	0	2	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	34
183	0	0	0	0	15	0	0	0	0	0	0	1	0	9	0	0	0	0	5	0	11	0	4	0	35	80
184	0	0	0	0	23	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	6	0	9	0	56	107
185	0	0	0	0	0	0	0	5	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	13	21
186	0	0	0	0	3	0	0	4	9	0	0	0	0	0	0	0	0	1	7	1	0	0	0	0	25	50
187	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	10	13
188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	2	0	0	0	0	16	34
189	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	28	32

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
190	0	2	0	0	0	0	0	7	3	0	0	0	4	0	0	0	0	0	13	25	0	0	0	0	13	67
191	0	0	0	0	1	0	0	5	3	0	0	0	5	0	0	0	2	0	93	26	0	0	0	0	9	144
192	0	0	0	0	41	0	0	0	0	0	0	1	0	3	0	0	0	0	31	3	13	0	7	0	93	192
193	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	12	16
194	9	2	0	0	0	0	0	3	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	65	84
195	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	7	11
196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	6
197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	3	0	0	0	0	3	20
198	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
199	5	144	0	0	0	0	0	3	5	1	0	0	3	0	0	0	0	0	11	12	0	0	0	0	18	202
200	2	0	0	0	0	0	0	0	33	0	0	0	11	0	0	0	1	0	534	6	0	9	0	0	40	636
201	0	0	0	0	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	0	18	80
202	0	1	0	0	0	0	0	9	13	0	0	0	7	0	0	0	0	0	420	92	0	0	0	0	27	569
203	36	56	0	0	0	0	0	0	6	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	12	113
204	75	222	0	0	0	0	0	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	341
205	45	125	0	0	0	0	0	3	8	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	22	209
206	21	880	0	0	0	0	0	0	55	0	6	0	2	0	0	0	0	0	0	2	0	0	0	0	9	975
207	0	3574	10	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	8	3	0	0	0	0	0	3598
208	11	16	0	0	0	0	0	5	20	7	0	0	1	0	0	0	0	0	0	4	0	0	0	0	8	72
209	0	138	0	0	0	0	0	6	7	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	157
210	0	92	0	0	0	0	0	0	33	3	2	0	0	0	0	0	0	0	13	12	0	0	0	0	7	162
211	0	75	0	0	0	0	0	4	31	3	2	0	1	0	0	0	0	0	8	9	0	0	0	0	2	135
212	59	5	0	0	0	0	0	4	73	0	2	0	3	0	0	0	0	0	60	6	0	8	0	0	10	230
213	0	19	0	0	0	0	0	3	124	0	0	0	3	0	0	0	0	0	17	2	0	3	0	0	8	179
214	0	28	227	6	71	81	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	222	0	0	33	674
215	0	18	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	2	51
216	0	70	0	0	0	0	0	0	17	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
217	0	71	0	0	0	0	0	6	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
218	3	2	0	0	0	0	0	0	26	10	3	0	1	0	0	0	0	0	166	55	0	12	0	0	2	280
219	144	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	24	0	0	0	0	18	193
220	40	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	33	0	0	0	0	57	172
221	4	18	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	4	0	23	0	0	7	61
222	25	408	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	11	9	0	0	0	0	26	483
223	129	14	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	0	0	36	190
224	15	60	5	0	0	1	2	418	1	0	6	0	0	0	0	0	2	1	20	2	0	36	0	0	11	580
225	7	14	10	3	0	0	0	446	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	483
226	36	3	14	7	6	482	0	630	0	0	2	0	0	0	0	0	0	0	7	0	0	13	0	0	52	1252
227	0	3	0	0	1	5	0	336	0	0	0	0	0	0	0	0	0	0	18	0	0	9	0	0	7	379

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
228	0	0	0	4	0	4	0	54	0	0	0	0	0	0	0	0	0	0	32	0	0	10	0	0	66	170
229	0	0	0	19	1	12	8	3	0	0	0	0	0	0	0	0	0	0	20	0	0	26	0	0	677	766
230	59	3	15	2	1	0	0	62	0	0	0	1	0	0	0	0	0	0	18	0	0	32	0	0	34	227
231	107	12	9	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	738	15	0	21	0	0	42	948
232	37	17	0	0	0	0	0	0	6	3	0	0	1	0	0	0	0	0	205	64	0	21	0	0	13	367
233	36	223	0	0	0	0	0	0	2	300	0	0	1	0	0	0	0	0	0	56	0	0	0	0	52	670
234	19	0	0	0	0	0	0	0	7	285	0	0	2	0	0	0	0	0	15	124	0	2	0	0	52	506
235	15	9	0	0	0	0	0	0	0	6	0	0	0	0	0	0	2	0	0	7	0	1	0	0	57	97
236	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0	33	45
237	3	23	0	0	0	0	0	7	0	4	0	0	0	0	0	0	2	1	3	0	0	2	0	0	39	84
238	2	137	0	0	0	0	0	15	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	173
239	0	22	0	4	41	0	0	0	1	0	10	0	0	0	0	0	2	0	0	0	0	2	0	0	29	111
240	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	12	0	0	0	0	0	0	0	14	29
241	24	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	46	76
242	20	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	23	0	0	66	112
243	2	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	20
244	1	0	0	0	0	0	0	0	0	13	0	0	0	1	0	0	0	0	0	6	0	0	0	0	40	61
245	5	0	0	0	0	0	0	0	0	7	0	0	1	0	0	0	0	0	0	75	0	0	0	0	39	127
246	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	6
247	0	0	0	0	0	0	0	9	0	7	0	0	0	0	0	0	0	0	11	24	0	0	0	0	27	78
248	0	1	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	12	31
249	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	10	0	0	2	0	0	37	55
250	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	5	20
251	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	96	0	0	0	0	0	140
252	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	13	28	0	3	0	0	2	50
253	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	9
254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7	8
255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	12	15
256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	4	10
257	3	116	0	1	8	0	0	0	0	0	3	0	0	0	0	0	14	11	0	0	0	0	0	0	12	168
258	6	13	0	18	35	0	2	46	0	0	11	2	0	0	0	0	8	2	30	0	0	3	0	0	100	276
259	16	3	0	0	1	3	0	16	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	15	58
260	5	0	0	2	16	1	0	19	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	28	76
261	0	0	0	3	1	0	0	24	0	0	1	0	0	0	0	0	0	0	0	0	0	8	0	0	13	50
262	0	0	0	1	3	31	0	5	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	7	50
263	8	5	0	0	16	107	0	66	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	22	227
264	0	0	0	3	5	1979	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	28	2044
265	0	0	5	8	25	250	0	221	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	59	570

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
266	0	0	0	271	0	1	0	0	0	0	1	0	0	0	0	0	4	0	0	0	0	4	0	0	16	297
267	2	0	0	9	10	9	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	9	0	0	12	56
268	0	0	0	7	10	17	0	9	0	0	1	3	0	0	0	0	3	1	0	0	0	2	0	0	24	77
269	0	0	11	6	2	91	0	20	0	0	0	3	0	0	0	0	0	0	0	0	0	7	0	0	20	160
270	0	3	0	4	1	21	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	37
271	0	3	198	21	16	0	1	3	0	0	3	3	0	0	0	0	0	0	0	0	0	3	0	0	7	258
272	1	6	1	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	30
273	0	7	0	0	1	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7	0	0	8	29
274	7	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	5	0	0	3	19
275	3	16	8	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	20	0	0	6	82
276	2	38	0	0	0	1	0	0	0	7	2	0	0	0	0	0	2	0	0	0	0	21	0	0	58	131
277	0	14	0	1	0	0	0	0	0	16	7	3	0	0	0	0	13	0	10	14	0	16	0	0	20	114
278	0	6	0	0	0	0	0	0	0	49	8	0	0	0	0	0	4	0	0	23	0	70	0	0	18	178
279	1	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	1	0	1	0	0	5	19
280	0	0	0	0	0	0	0	0	0	36	1	0	0	0	0	0	1	0	0	0	0	35	0	0	71	144
281	1	9	0	0	0	0	0	0	0	22	0	0	0	0	0	0	2	0	0	0	0	16	0	0	6	56
282	0	0	0	2	1	21	0	0	0	11	1	8	0	0	0	0	0	0	0	0	0	4	0	0	23	71
283	0	0	0	6	0	2	0	6	0	0	0	4	0	0	0	0	0	0	0	0	0	25	0	0	7	50
284	0	0	0	2	1	0	0	0	0	10	2	1	2	0	0	0	0	0	0	0	0	21	0	0	58	97
285	0	0	0	5	3	0	0	0	0	0	5	9	0	0	0	0	0	0	0	0	0	19	0	0	38	79
286	0	0	0	7	4	77	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	4	0	0	8	105
287	0	4	0	10	1	2	0	0	0	0	9	9	0	0	0	0	1	0	0	0	0	6	0	0	20	62
288	0	0	0	7	5	0	0	0	0	0	5	4	0	0	0	0	1	0	0	0	0	0	0	0	22	44
289	0	0	0	3	2	1	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	8	0	0	12	33
290	0	0	1	2	8	0	0	0	0	0	4	0	0	0	0	0	0	0	0	2	0	16	0	0	53	86
291	0	0	0	0	0	0	0	0	1	0	3	0	1	0	0	0	0	0	0	0	0	18	0	0	13	36
292	0	0	0	3	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	3	0	55	0	0	19	84
293	0	2	0	0	23	0	2	0	0	0	7	13	0	0	0	0	0	0	0	0	0	5	0	0	38	90
294	0	0	0	0	10	3	0	10	0	0	4	3	0	0	0	0	0	0	0	0	0	3	0	0	45	78
295	11	0	0	4	2	4	12	0	0	0	9	38	0	0	0	0	1	0	0	0	0	17	0	0	38	136
296	0	0	0	7	1	0	0	0	0	0	12	9	0	0	0	0	3	0	0	0	0	3	0	0	32	67
297	5	7	31	5	4	765	22	0	0	0	8	12	0	0	0	0	1	0	0	0	0	0	0	0	26	886
298	0	4	0	1	7	1	0	0	0	0	2	9	0	0	0	0	2	0	0	0	0	3	0	0	11	40
299	11	6	46	0	1	20	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	92
300	0	0	11	2	7	1	42	37	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	11	115
301	0	3	51	87	7	667	4	20	0	0	8	1	0	0	0	0	1	0	0	0	0	3	0	0	31	883
302	0	0	13	7	5	4	8	175	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	16	232
303	0	0	177	1	10	1	9	294	0	0	13	3	0	0	0	0	0	0	0	0	0	3	0	0	27	538

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

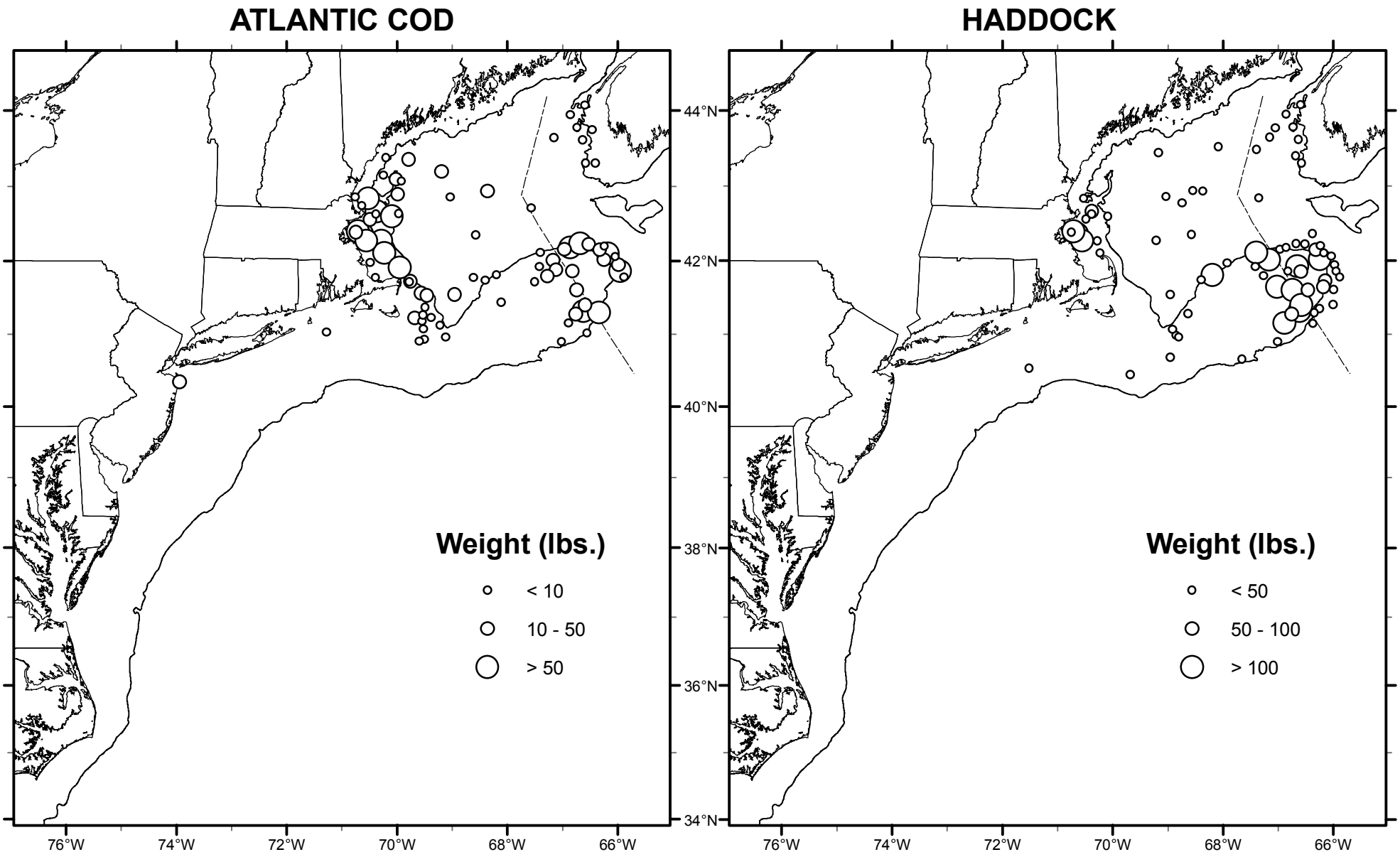
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
304	0	0	0	79	4	0	1	195	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	11	299
305	0	0	59	19	2	186	0	157	0	0	9	0	0	0	0	0	3	0	0	0	0	0	0	0	9	444
306	1	0	0	0	0	0	0	29	0	12	0	0	1	0	0	0	0	0	0	28	0	2	0	0	29	102
307	0	0	0	0	0	0	0	11	0	8	0	0	1	0	0	0	1	0	0	65	0	2	0	0	7	95
308	0	0	0	0	1	0	0	0	3	5	0	0	0	0	0	0	0	0	3	68	0	8	0	0	17	105
309	3	0	0	0	5	0	0	0	2	6	1	0	0	0	0	0	1	0	0	91	0	19	0	0	24	152
310	0	0	0	0	3	0	0	0	3	4	5	0	0	0	0	0	0	0	0	22	0	3	0	0	36	76
311	138	4	2	0	3	0	0	27	94	224	3	0	0	0	0	0	14	0	0	1	0	7	0	0	379	896
312	1487	34	0	0	0	0	0	85	7	12	0	0	0	0	0	0	0	0	0	0	0	2	0	0	394	2021
313	60	192	0	0	1	0	0	14	91	70	103	1	0	0	0	0	68	0	0	0	0	6	0	0	34	640
314	208	280	0	1	2	0	0	6	7	6	76	0	0	0	0	0	2	0	0	0	0	9	0	0	33	630
315	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
316	128	109	0	0	3	1	0	0	21	19	5	0	0	0	0	0	0	0	0	0	0	15	0	0	30	331
317	21	10	0	0	0	0	0	0	57	15	3	0	0	0	0	0	0	0	0	0	0	10	0	0	18	134
318	9	9	0	1	3	11	1	0	5	0	57	0	0	0	0	0	0	0	0	0	0	2	0	0	19	117
319	8	46	0	0	3	0	0	0	1	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	6	77
320	92	78	0	0	0	0	0	14	3	1	7	0	0	0	0	0	1	0	0	0	0	3	0	0	24	223
321	7	0	0	0	0	0	0	0	97	6	16	0	0	0	0	0	19	0	0	0	0	15	0	0	43	203
322	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	3	0	1	0	0	37	49
323	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	2	0	0	0	0	2	0	0	64	72
324	57	11	0	0	6	1	0	0	6	1	26	1	0	0	0	0	0	0	0	0	0	8	0	0	24	141
325	3	0	0	1	45	1	0	0	2	0	11	1	0	0	0	0	0	0	0	0	0	13	0	0	62	139
326	2	0	0	1	3	0	0	0	4	0	14	0	0	0	0	0	0	0	0	0	0	5	0	0	47	76
327	13	0	10	3	54	2	11	0	0	0	2	11	0	0	0	0	1	0	0	0	0	0	0	0	59	166
328	44	0	2	0	4	46	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	3	0	0	14	127
329	8	0	141	29	6	44	1	60	0	0	16	0	0	0	0	0	3	0	0	0	0	2	0	0	49	359
330	11	0	232	5	11	94	41	148	0	0	13	6	0	0	0	0	15	0	0	0	0	5	0	0	99	680
331	84	4	0	0	0	1	0	16	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
332	5	0	46	7	20	382	68	219	0	0	19	5	0	0	0	0	2	0	0	0	0	4	0	0	169	946
333	0	0	17	0	2	6	0	61	0	0	1	1	0	0	0	0	5	0	0	0	0	3	0	0	11	107
334	0	0	34	11	4	10	14	381	0	0	6	0	0	0	0	0	12	0	0	0	0	3	0	0	9	484
335	0	2	79	5	2	3	2	85	0	0	4	0	0	0	0	0	4	0	0	0	0	0	0	0	14	200
336	0	0	36	0	1	3	0	67	0	0	2	0	0	0	0	0	0	0	6	0	0	0	0	0	13	128
337	103	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	15	0	0	0	16	0	0	56	191
338	27	0	0	0	0	5	0	44	2	2	0	0	0	0	0	0	8	4	2	0	0	13	0	0	87	194
339	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	18	0	0	0	4	0	0	13	41
340	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	37	1	0	0	0	0	0	0	7	48
341	3	0	0	0	0	0	0	0	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	11

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

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FFLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL * OTHER	TOTAL ALL
342	2	0	0	0	0	0	0	0	1	51	0	0	1	0	0	0	0	0	5	14	0	1	0	0	5	80
343	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	7	33	0	0	0	0	6	50
344	12	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	82
TOTAL	3634	7601	1508	725	935	5481	400	60885	1013	1703	639	191	220	358	309	26	1313	3761	4632	12117	771	1257	834	10	15012	125335

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

NOAA Fisheries Service
NEFSC Bottom Trawl Survey
March 6 to May 3, 2008



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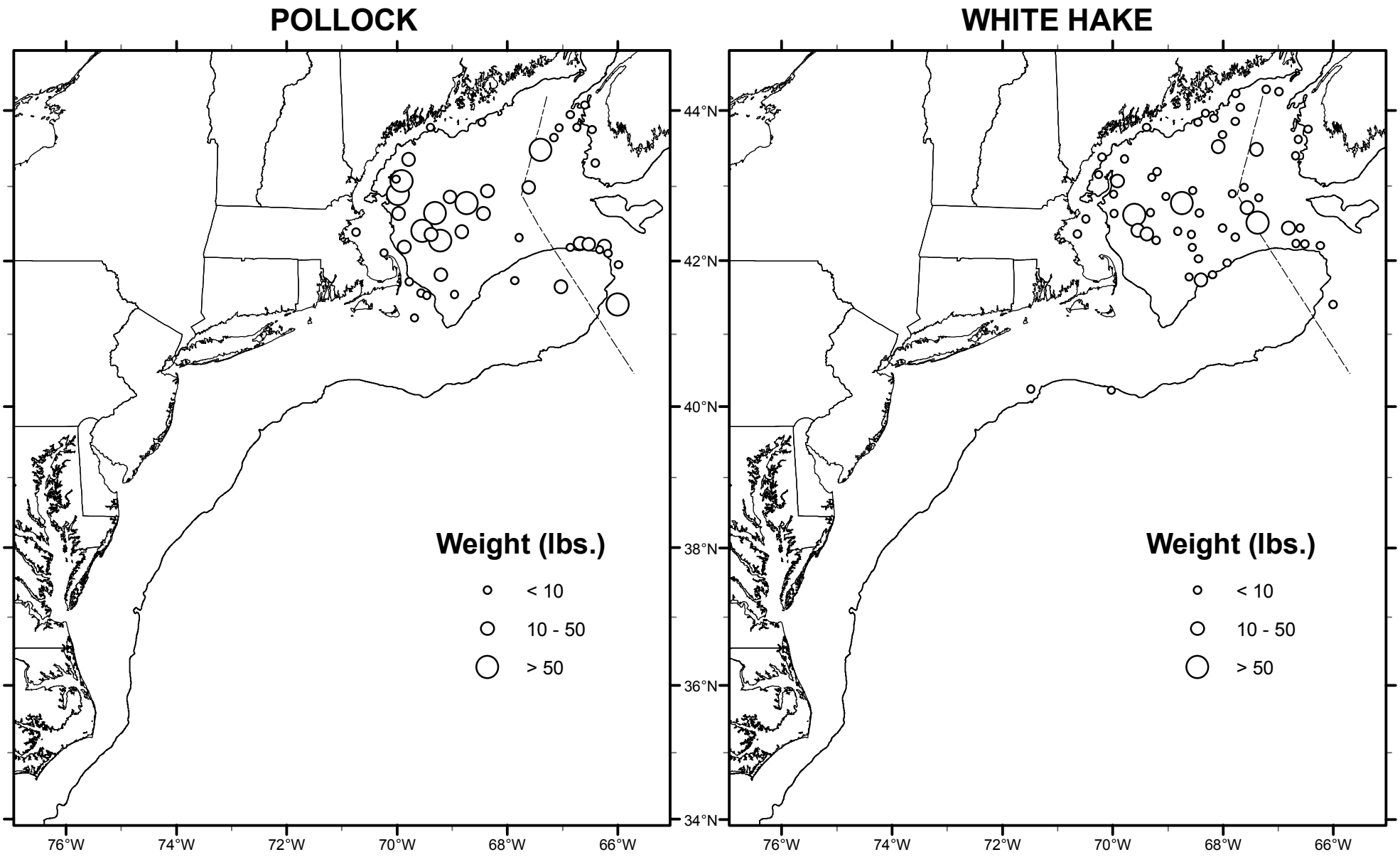
March 6 to May 3, 2008



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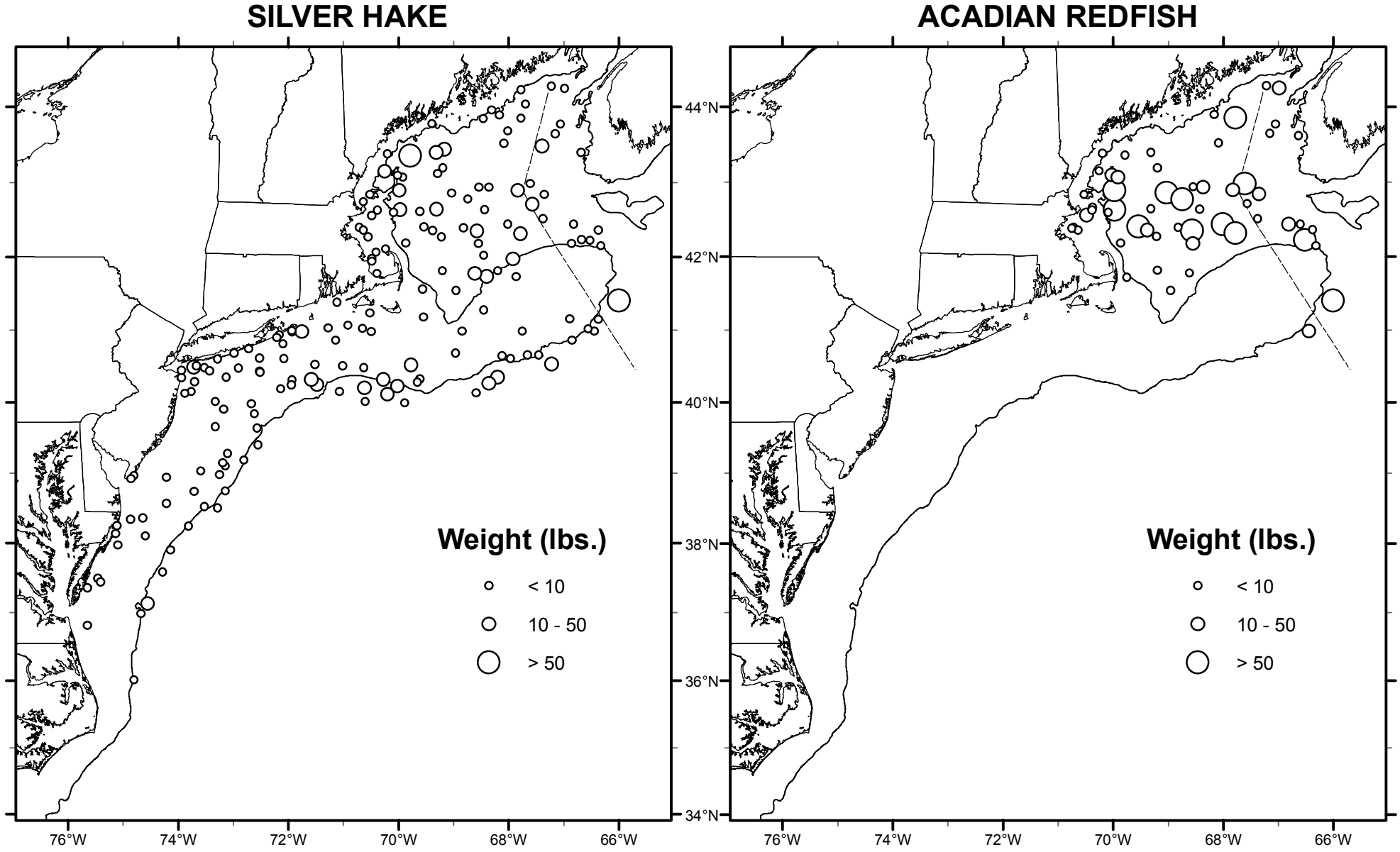
March 6 to May 3, 2008



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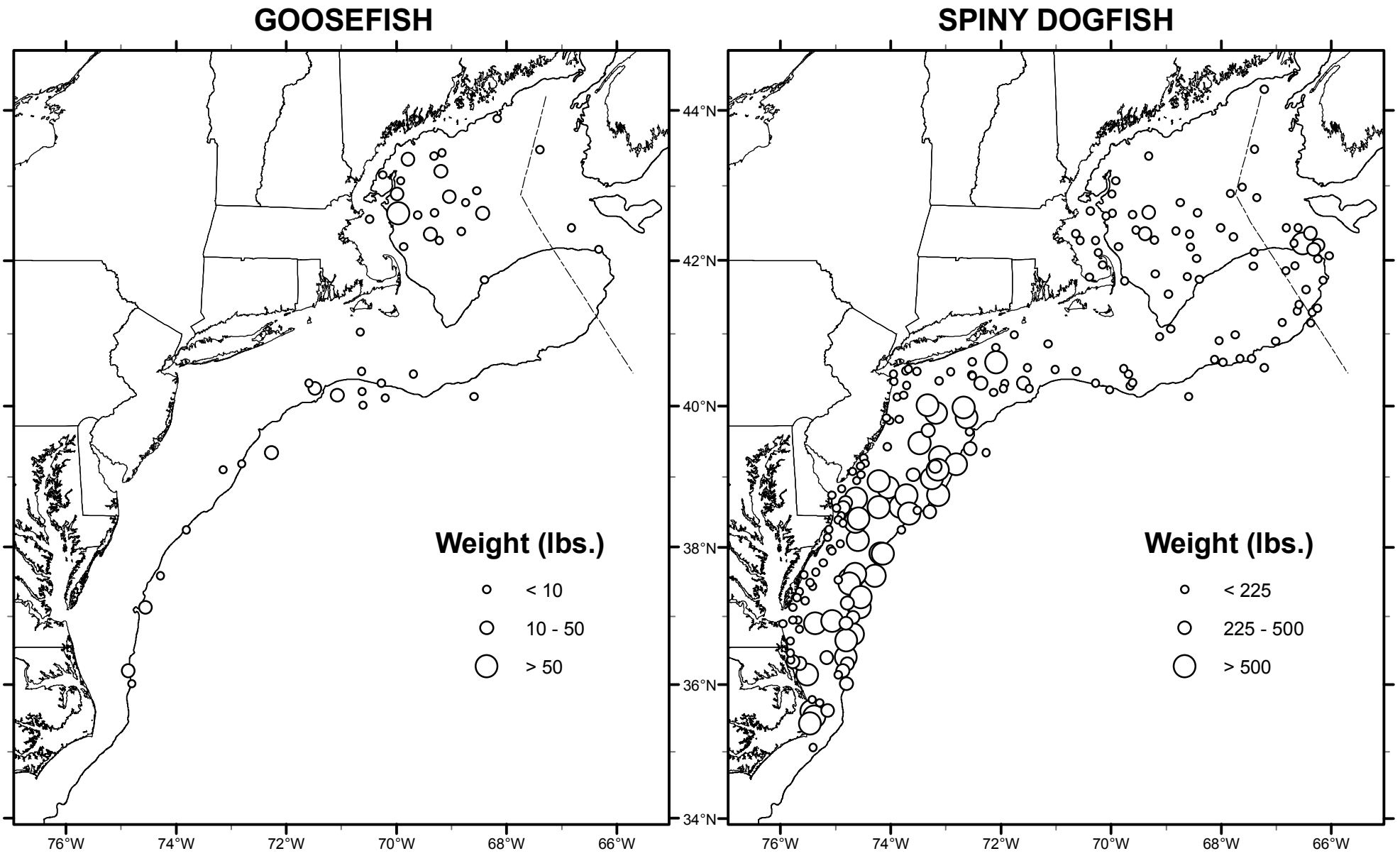
NEFSC Bottom Trawl Survey
March 6 to May 3, 2008



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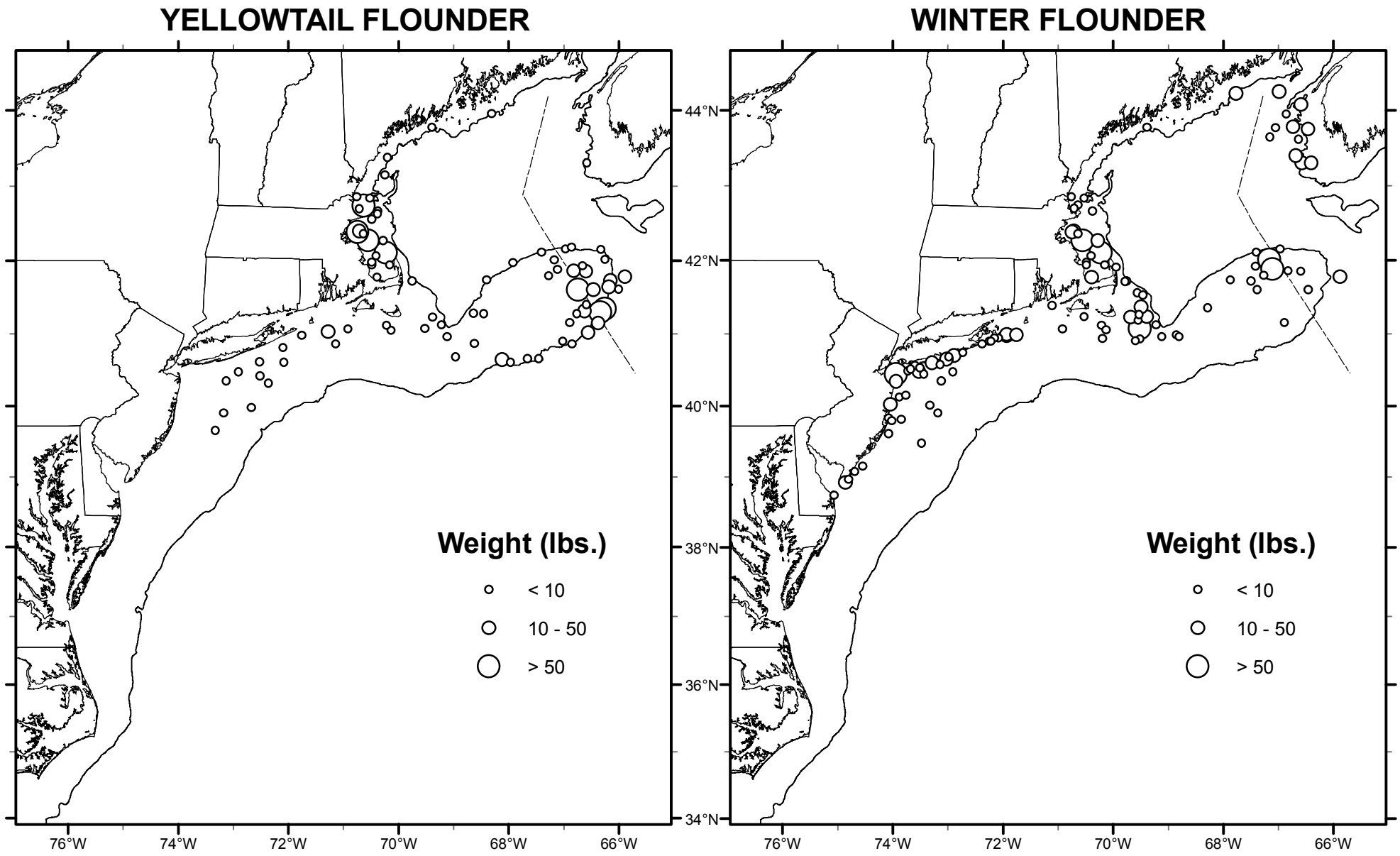
March 6 to May 3, 2008



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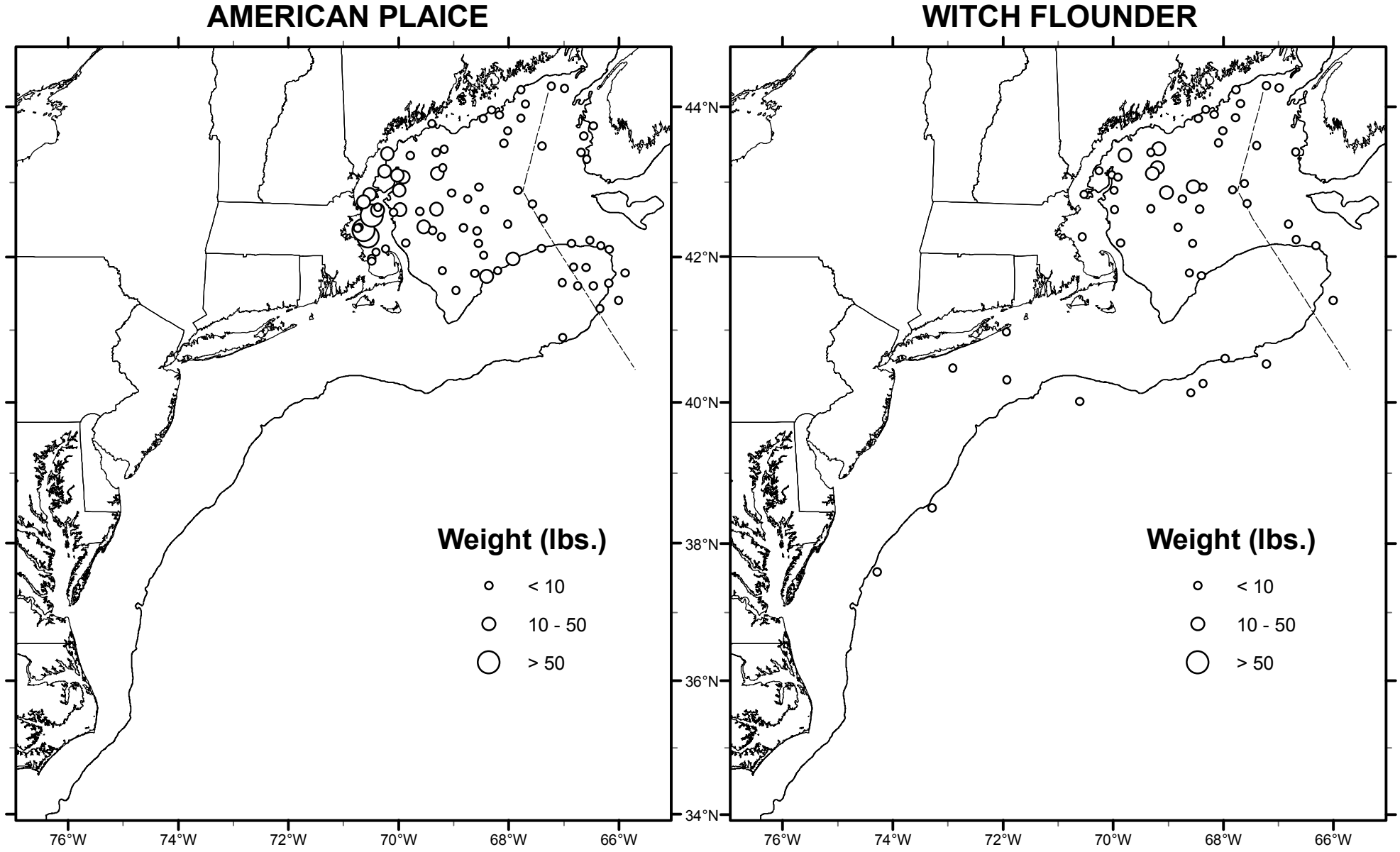
NEFSC Bottom Trawl Survey
March 6 to May 3, 2008



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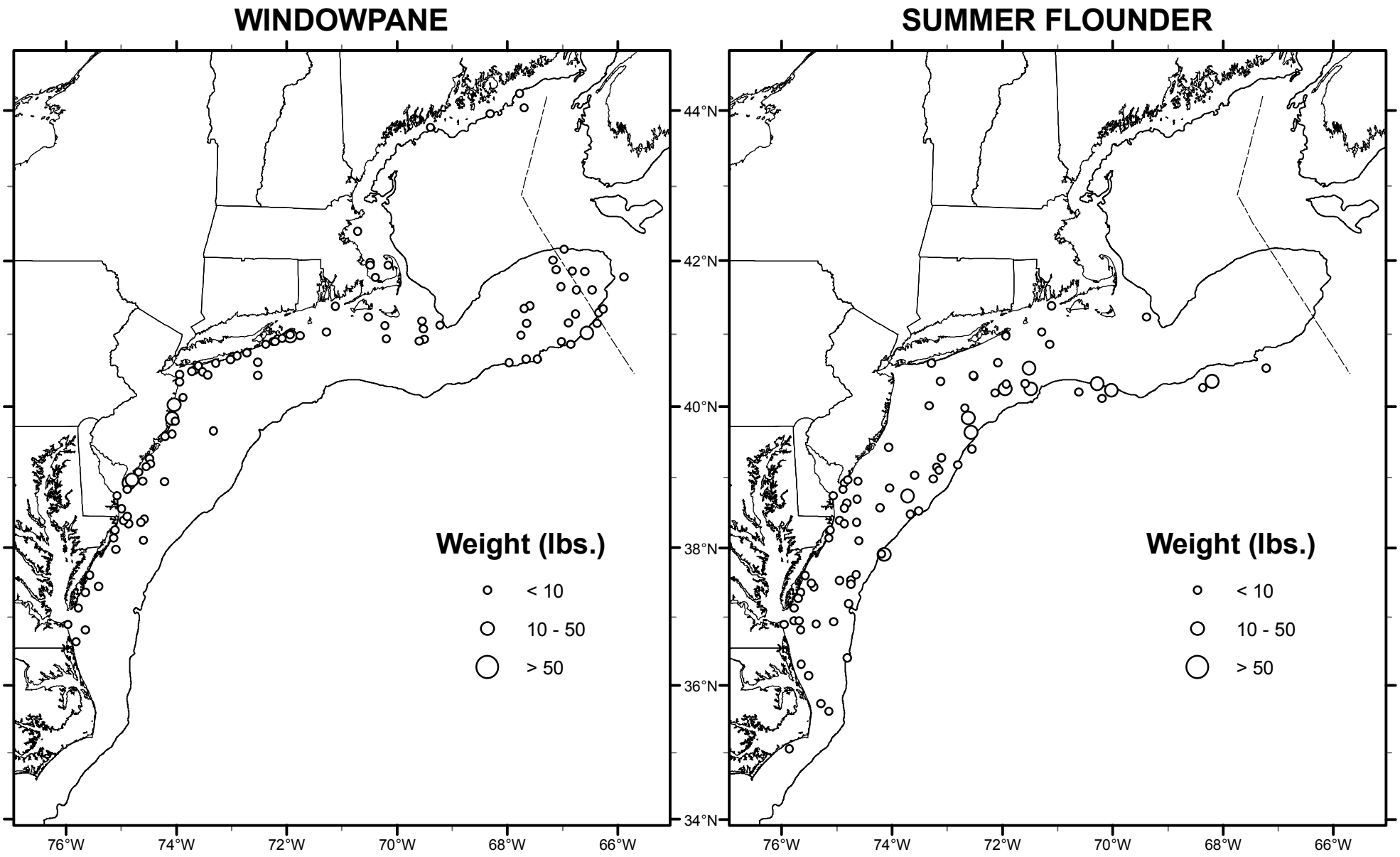

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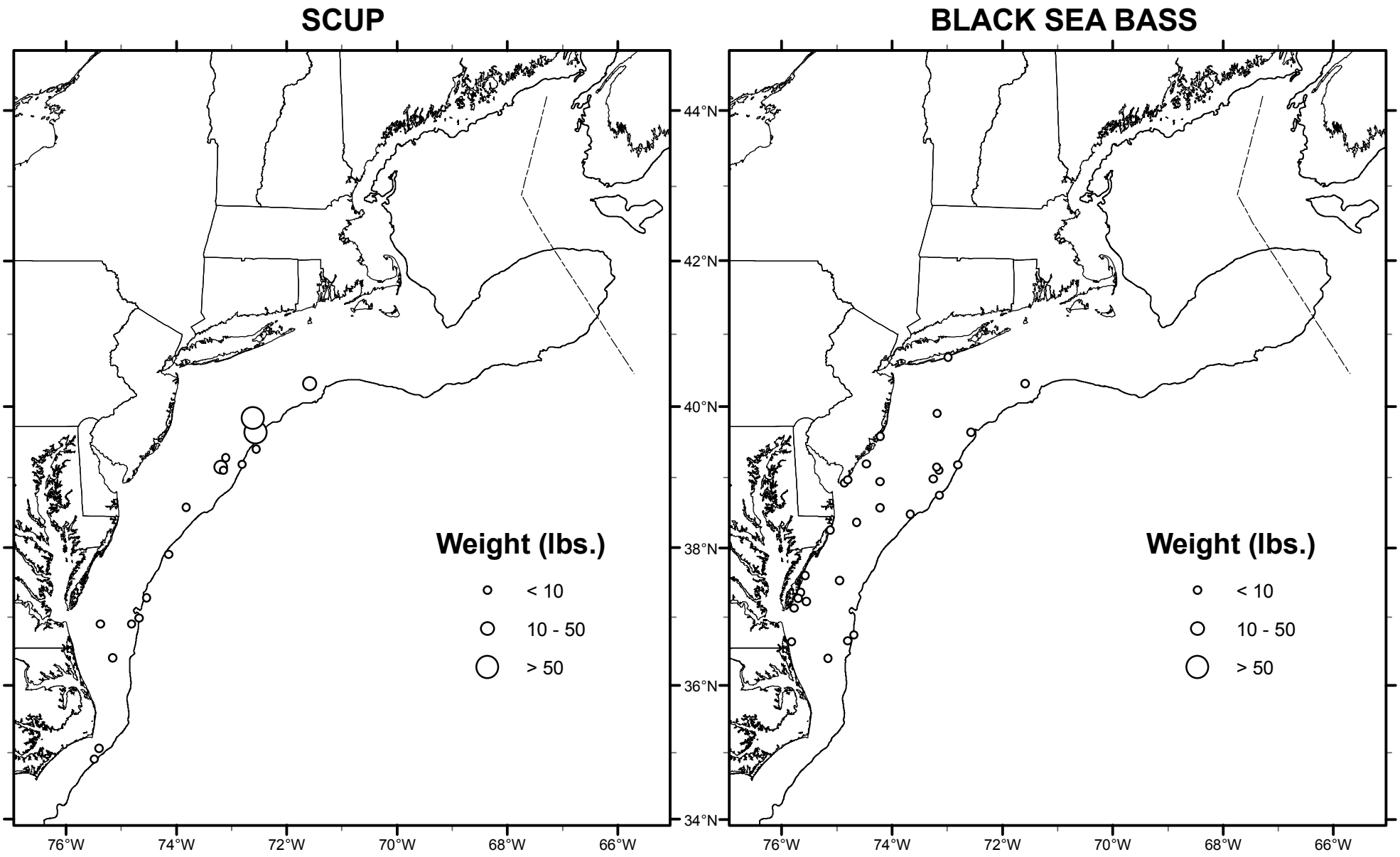

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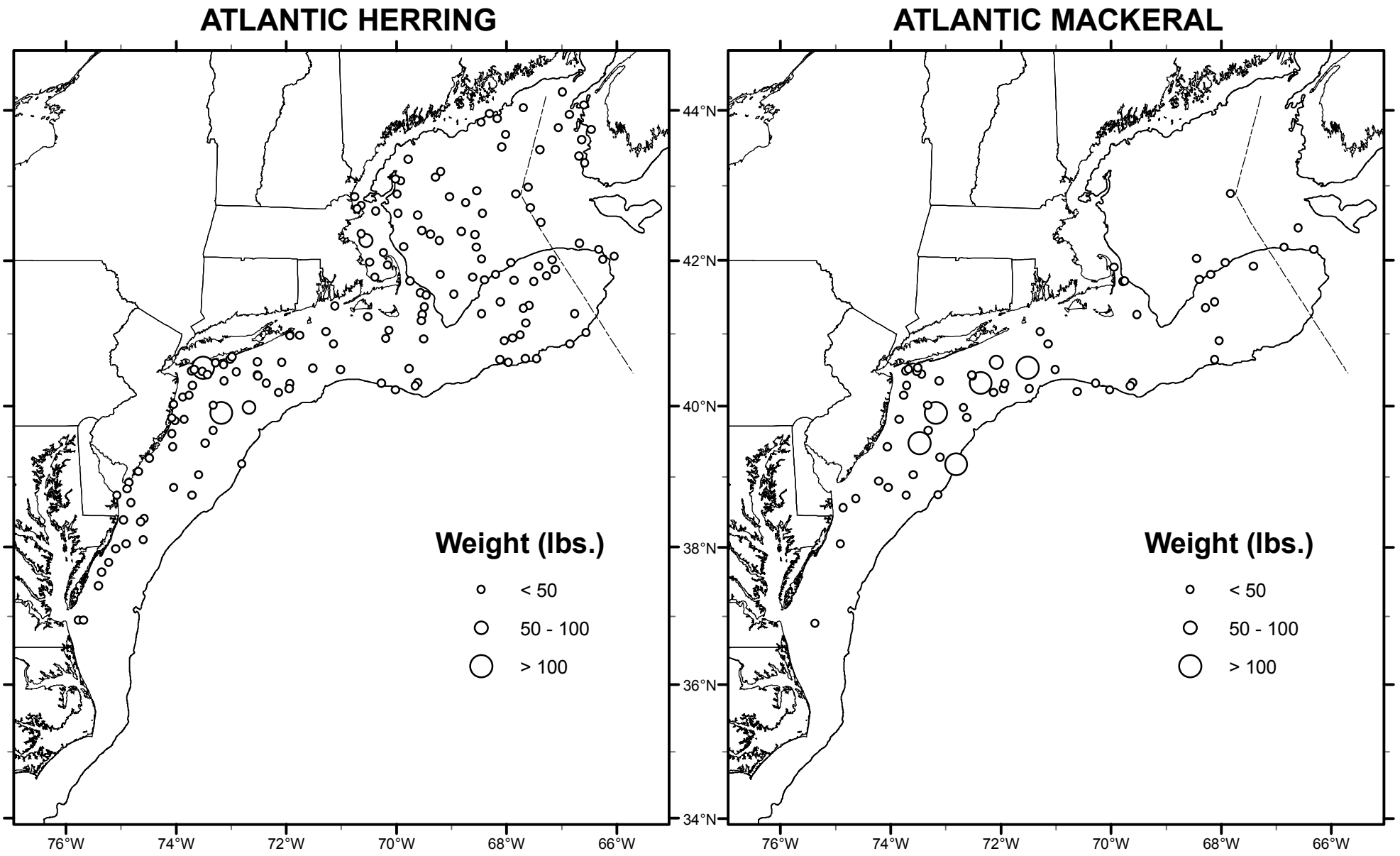

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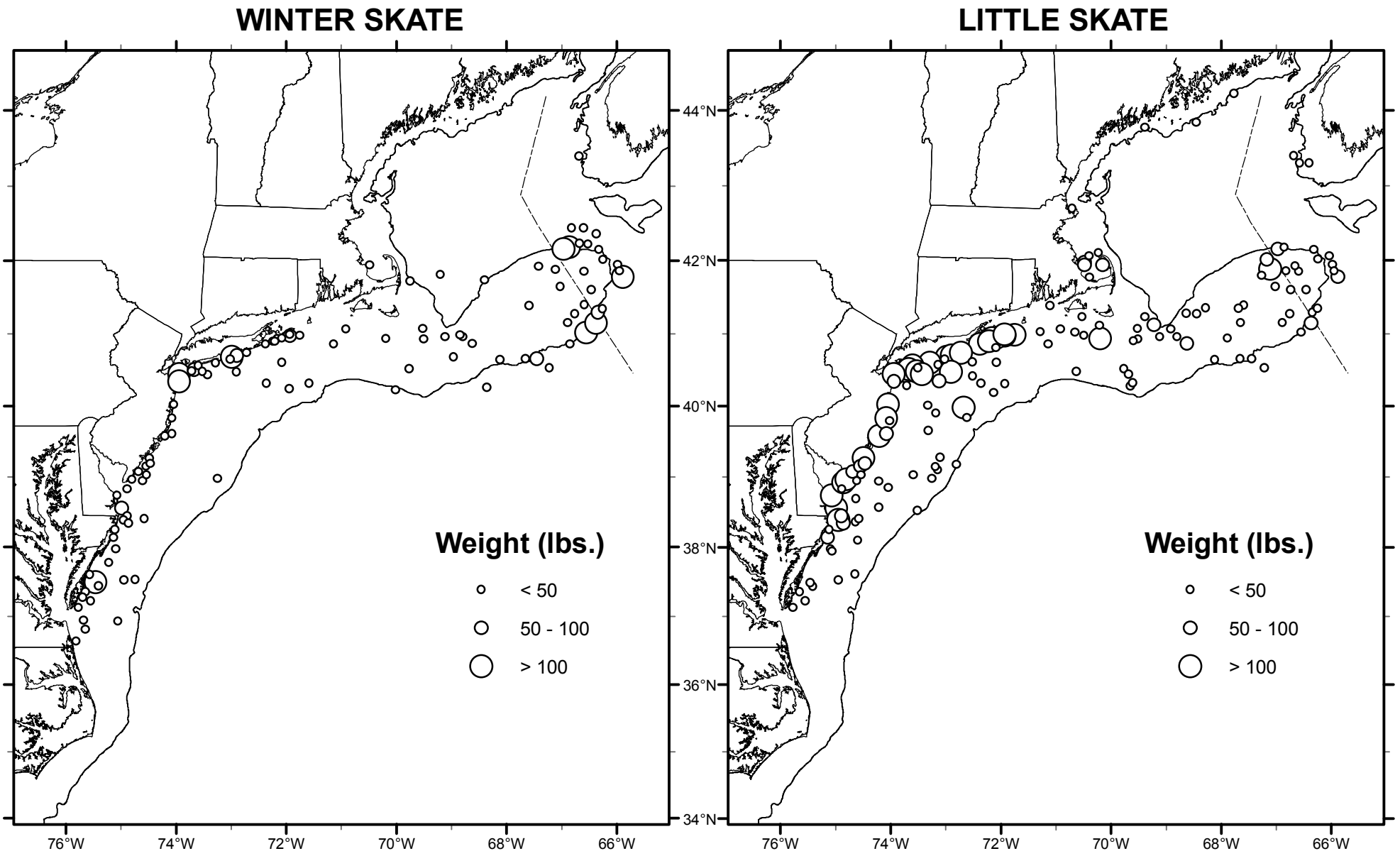

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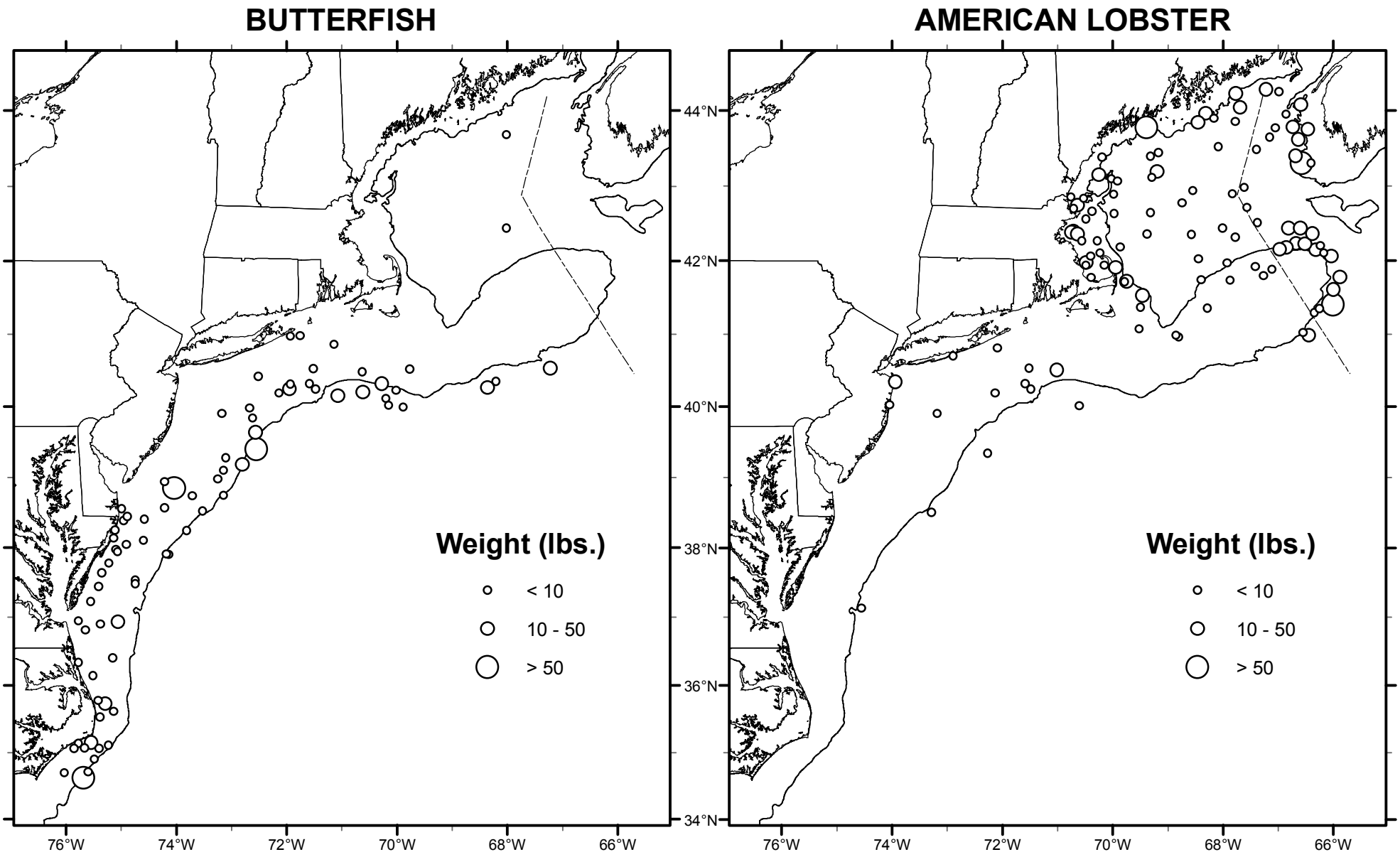

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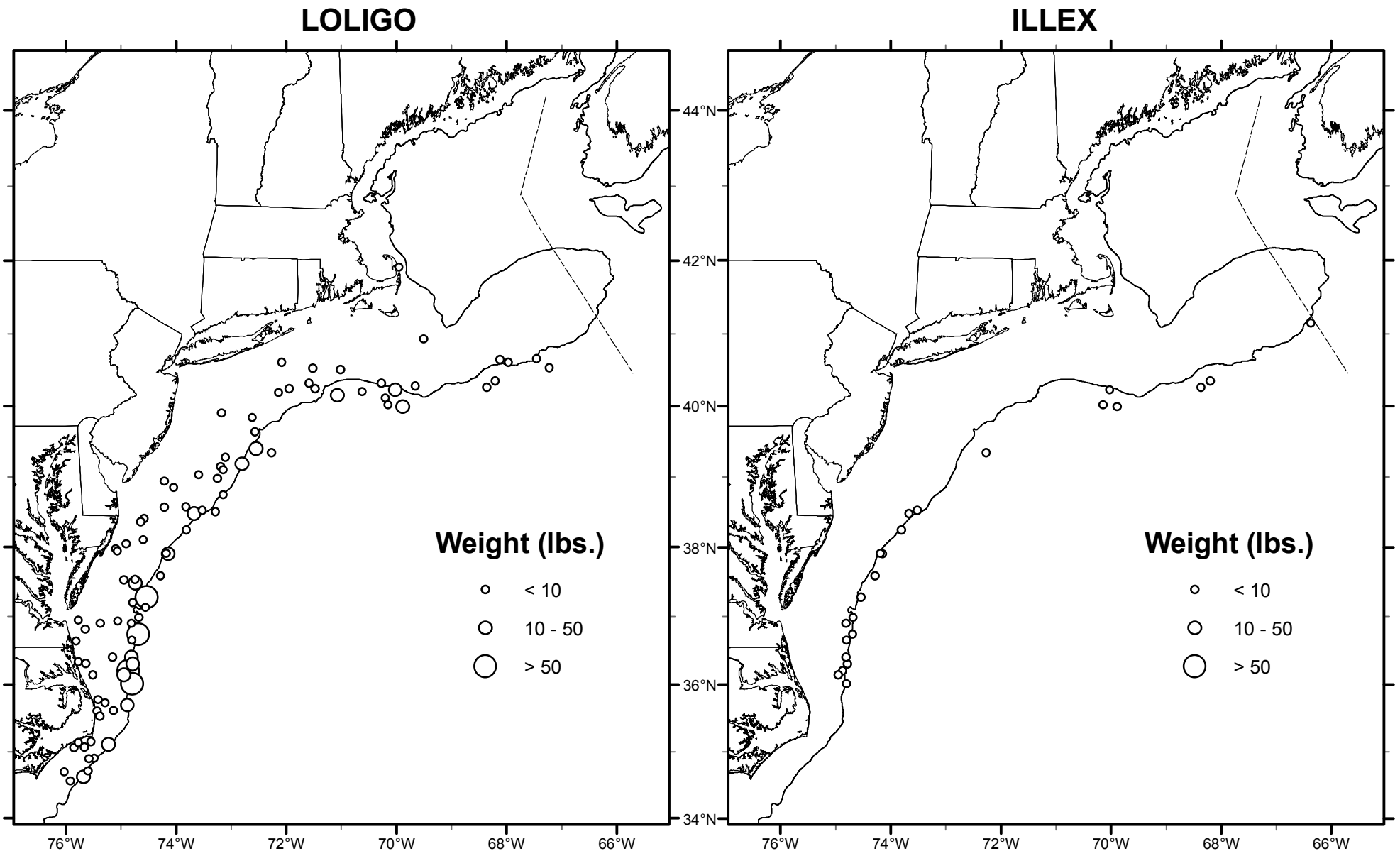

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