

Resource Survey Report Cooperative Monkfish Survey

Submitted to: NOAA, NEFSC

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Date: 2009

Resource Survey Report

Cooperative Monkfish Survey

Cape Hatteras – Gulf of Maine

(02/09/2009) – (05/01/2009)

F/V *Mary K* & F/V *Endurance*



NOAA Fisheries Service

Northeast Fisheries Science Center

Woods Hole, MA 02543



Vessels used for the 2009 Cooperative Monkfish Survey. F/V *Mary K*, New Bedford, MA (top left) and the F/V *Endurance*, New Bedford, MA (bottom right).

RESOURCE SURVEY REPORT

Catch Summary

NOAA Fisheries Service
Northeast Fisheries Science Center

Cooperative Monkfish Survey

Cape Hatteras - Gulf of Maine

February 9 – May 1, 2009

This report consists of field notes, station and catch summaries and a series of geographical plots of commercially and recreationally important species caught during the Northeast Fisheries Science Center's 2009 Cooperative Monkfish Survey conducted by the FV *Mary K*, New Bedford, MA and the F/V *Endurance*, New Bedford, MA. The fishing gear used will be the vessels' nets, doors with the codends replaced by a standard 6-inch diamond mesh codend to be provided by NMFS (codend defined as first 50 meshes, counting from the terminus of the net). Tows were made at selected stations for 30 minutes at a speed of 2.5 knots.

Because of the 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).

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- 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 F/V *Mary K*, and the F/V *Endurance*.

Large Monkfish

There were 44 individual monkfish that were caught throughout the survey that were greater than or equal to 80 cm long. The largest monkfish that was caught was an individual that measured 112 cm long and weighed in at a whopping 24.54 kg. There were 5 individuals that were over the 90 cm range and 2 individuals which were over 100 cm.

The Elusive Blackfin Goosefish

During the survey there were 18 blackfin goosefish (*Lophius gastrophysus*) which were caught in the trawl. This specimen is thought to be closely related to the American goosefish (*Lophius americanus*). This species which has a range from the slope waters of the mid Atlantic to North Carolina and the Gulf of Mexico to Argentina is considered a rarity and always brings a touch of excitement to the deck when one is encountered. Since the 2001 survey, catches of blackfin have varied, from five caught in 2001, eight caught in 2004, and now 18 caught in 2009.

A Different Kind of Catch

The FSV Gloria Michelle had lost an entire shrimp trawl and associated electronic gear off Cape Ann last August during the northern shrimp survey. In November, the FSV Albatross IV located but was unable to recover the gear, so the F/V *Endurance* was up to the challenge. After obtaining the lost gear's coordinates, the vessel quickly located the trawl on sonar in about 75 fathoms of water in Scantum Basin. The *Endurance* put out a grapple and made a pass, catching the edge of the gear, which slipped off. But on the second pass, the crew caught the gear squarely in the middle and recovered it all. In less than two hours they had located and recovered about \$40,000 worth of equipment for the Northeast Fisheries Science Center.

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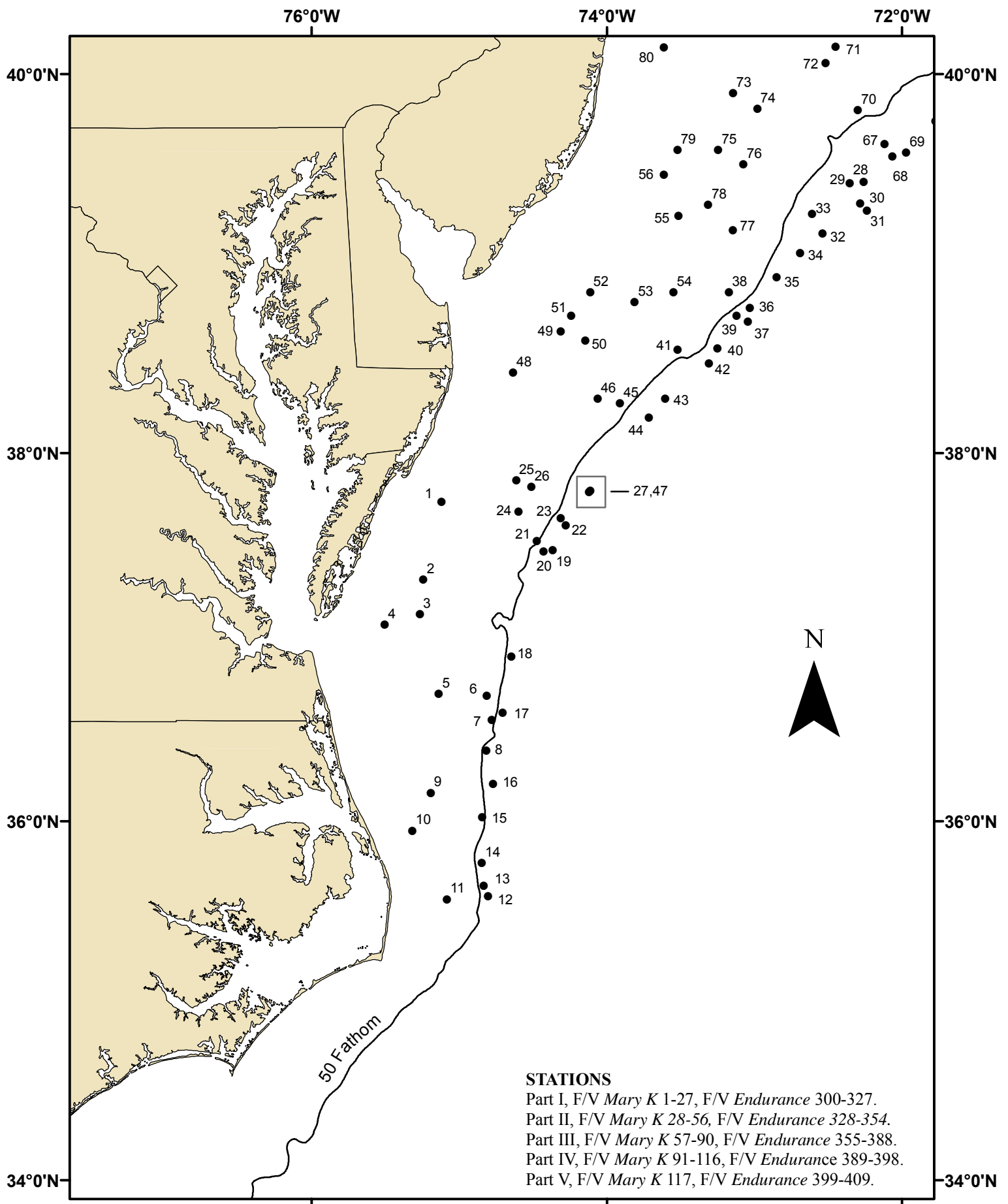


Figure 1. Trawl hauls made from F/V *Mary K*, during NOAA Fisheries Service, Northeast Fisheries Science Center Cooperative Monkfish survey, Feb 09 to May 01, 2009.

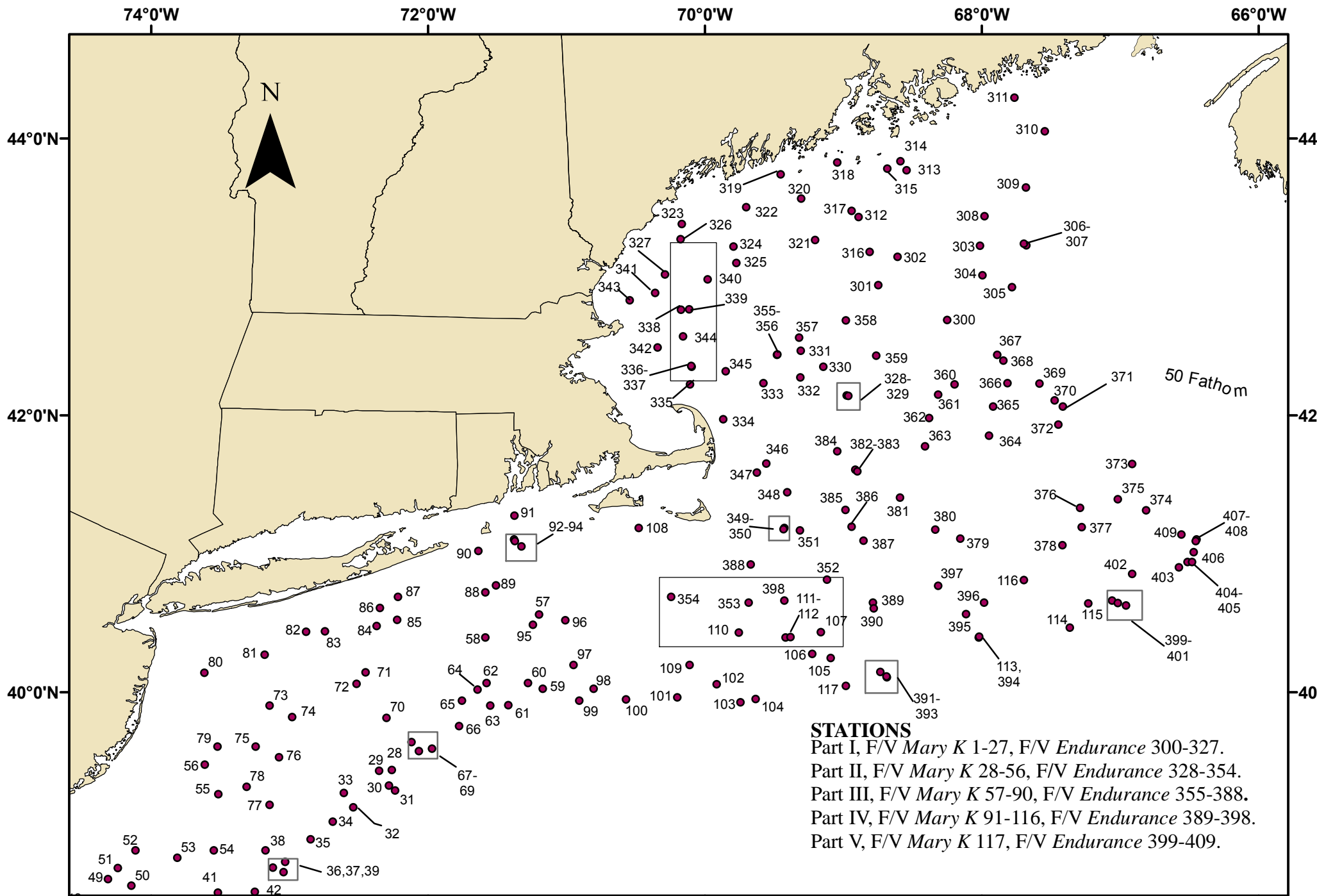


Figure 2. Trawl hauls made from F/V *Mary K* and F/V *Endurance*, during NOAA Fisheries Service, Northeast Fisheries Science Center Cooperative Monkfish survey, Feb 09 to May 01, 2009.

NOAA Fisheries Service Cooperative Monkfish Survey
2009 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)
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0001	Feb-11	0524	3744.2	7507.1	X27030.9	Y41914.4	223	18.3
0002	Feb-11	0946	3719.1	7514.5	X27022.9	Y41622.6	188	14.2
0003	Feb-11	1226	3707.8	7516.0	X27011.4	Y41493.6	245	15.9
0004	Feb-11	1507	3704.5	7530.3	X27067.9	Y41430.4	254	12.6
0005	Feb-14	1754	3641.8	7508.2	X26940.9	Y41228.2	124	15.6
0006	Feb-14	2109	3641.2	7448.8	X26857.7	Y41266.3	112	29.0
0007	Feb-14	2313	3633.5	7446.7	X26840.6	Y41191.8	181	43.7
0008	Feb-15	0255	3623.3	7448.9	X26838.9	Y41082.6	189	47.0
0009	Feb-15	0722	3609.4	7511.6	X26914.8	Y40880.1	359	14.8
0010	Feb-15	1000	3556.8	7519.1	X26929.3	Y40730.8	013	12.0
0011	Feb-15	1411	3534.1	7505.0	X26852.8	Y40554.8	358	19.7
0012	Feb-15	1845	3535.2	7448.3	X26792.1	Y40621.0	319	53.6
0013	Feb-15	2031	3538.5	7450.0	X26801.1	Y40645.0	341	45.4
0014	Feb-15	2315	3546.2	7450.9	X26811.0	Y40714.5	338	154.5
0015	Feb-16	0438	3601.3	7450.8	X26824.4	Y40859.5	011	52.5
0016	Feb-16	0747	3612.2	7446.3	X26817.1	Y40979.6	022	152.0
0017	Feb-16	1631	3635.6	7442.3	X26824.3	Y41224.8	024	178.0
0018	Feb-17	0708	3654.0	7438.8	X26829.0	Y41422.1	001	58.5
0019	Feb-17	1425	3728.6	7422.0	X26791.2	Y41815.0	068	146.5
0020	Feb-17	1726	3728.1	7425.7	X26808.0	Y41802.9	348	50.3
0021	Feb-17	1852	3731.6	7428.5	X26825.8	Y41835.3	041	41.0
0022	Feb-17	2157	3736.6	7416.6	X26774.1	Y41907.2	032	88.0
0023	Feb-18	0004	3739.0	7418.7	X26787.2	Y41928.7	031	53.0
0024	Feb-18	0257	3741.1	7436.0	X26874.9	Y41925.3	307	31.2
0025	Feb-18	0534	3751.2	7436.8	X26893.6	Y42033.6	010	25.7
0026	Feb-18	0802	3749.1	7430.7	X26859.9	Y42018.7	035	30.1
0027	Feb-18	1142	3747.5	7407.2	X26738.9	Y42034.0	048	127.7
0028	Feb-25	0756	3926.2	7215.7	X26139.5	Y43064.3	149	165.7
0029	Feb-25	1138	3926.0	7221.2	X26176.2	Y43062.6	220	73.8
0030	Feb-25	1359	3919.5	7216.9	X26148.5	Y43003.7	203	138.3
0031	Feb-25	1639	3917.4	7214.2	X26131.4	Y42984.7	049	230.2
0032	Feb-25	2144	3910.0	7232.3	X26248.6	Y42917.3	216	225.0
0033	Feb-26	0222	3916.3	7236.6	X26277.0	Y42975.8	033	71.1
0034	Feb-26	0640	3903.9	7241.4	X26305.0	Y42859.3	174	232.4
0035	Feb-26	1103	3856.2	7250.9	X26362.6	Y42784.7	058	169.5
0036	Feb-26	1625	3846.4	7301.9	X26425.2	Y42686.8	147	179.1
0037	Feb-26	1914	3841.9	7302.6	X26427.3	Y42643.1	254	275.6
0038	Feb-26	2237	3851.3	7310.4	X26480.0	Y42731.4	054	43.5
0039	Feb-27	0146	3843.8	7307.3	X26456.4	Y42659.2	258	71.6
0040	Feb-27	0454	3833.4	7315.0	X26495.7	Y42553.0	215	90.5
0041	Feb-27	0828	3833.1	7331.2	X26589.4	Y42539.0	217	42.1
0042	Feb-27	1135	3828.7	7318.5	X26512.8	Y42503.6	040	215.4
0043	Feb-27	1706	3817.5	7336.3	X26604.7	Y42377.9	020	167.6
0044	Feb-27	2102	3811.4	7343.0	X26636.0	Y42308.9	230	75.5
0045	Feb-27	2349	3815.9	7354.7	X26704.6	Y42343.6	225	38.8
0046	Feb-28	0310	3817.4	7403.7	X26756.2	Y42351.4	001	34.4
0047	Feb-28	0955	3747.9	7406.6	X26736.6	Y42039.3	015	135.6
0048	Feb-28	1835	3825.8	7438.1	X26957.9	Y42410.4	329	15.9

NOAA Fisheries Service Cooperative Monkfish Survey
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0049	Mar-03	1718	3839.0	7418.8	X26873.1	Y42568.9	000	21.9
0050	Mar-03	1939	3836.0	7408.6	X26810.2	Y42543.8	191	26.5
0051	Mar-03	2307	3843.8	7414.5	X26856.5	Y42622.8	039	22.4
0052	Mar-04	0156	3851.3	7406.8	X26823.5	Y42708.1	013	23.0
0053	Mar-04	0509	3848.1	7348.7	X26710.3	Y42683.0	168	24.6
0054	Mar-04	0844	3851.3	7332.9	X26618.1	Y42722.9	342	29.5
0055	Mar-04	1324	3915.6	7330.8	X26634.1	Y42969.4	009	24.1
0056	Mar-04	1605	3928.5	7336.8	X26692.7	Y43100.0	003	17.0
0057	Mar-10	1724	4033.6	7111.8	X25641.2	Y43584.2	102	37.5
0058	Mar-11	0003	4023.6	7135.2	X25830.3	Y43528.5	245	42.7
0059	Mar-11	0800	4001.5	7110.3	X25669.4	Y43334.0	087	214.3
0060	Mar-11	1243	4003.9	7116.6	X25709.4	Y43356.9	024	81.5
0061	Mar-11	1709	3954.4	7125.1	X25779.4	Y43285.8	074	208.9
0062	Mar-12	0129	4003.9	7134.6	X25836.6	Y43368.9	088	48.1
0063	Mar-12	1045	3954.2	7133.0	X25833.8	Y43288.6	073	141.6
0064	Mar-12	1412	4001.1	7138.5	X25866.9	Y43348.6	265	49.8
0065	Mar-12	1717	3956.2	7145.2	X25918.3	Y43312.1	224	64.5
0066	Mar-12	2005	3945.3	7146.5	X25934.1	Y43221.2	199	225.6
0067	Mar-13	0330	3938.3	7207.1	X26079.0	Y43169.0	213	77.1
0068	Mar-13	0618	3934.3	7204.0	X26058.7	Y43132.9	064	139.4
0069	Mar-13	0949	3935.5	7158.3	X26019.8	Y43141.7	039	205.6
0070	Mar-13	1637	3948.9	7218.0	X26155.2	Y43266.7	071	45.9
0071	Mar-13	2241	4008.6	7227.1	X26231.6	Y43447.3	277	32.5
0072	Mar-14	0157	4003.6	7231.0	X26258.5	Y43405.8	260	31.7
0073	Mar-14	0849	3954.1	7308.7	X26530.9	Y43341.8	332	38.3
0074	Mar-14	1437	3949.2	7258.8	X26452.6	Y43290.5	135	38.0
0075	Mar-14	2041	3936.3	7314.8	X26551.4	Y43172.4	208	20.8
0076	Mar-15	0011	3931.8	7304.6	X26475.2	Y43125.8	025	32.8
0077	Mar-15	0526	3911.1	7308.8	X26484.8	Y42925.3	191	34.4
0078	Mar-15	0920	3919.0	7318.7	X26558.1	Y43003.1	015	26.5
0079	Mar-15	1325	3936.3	7331.3	X26666.6	Y43176.9	052	22.4
0080	Mar-15	1956	4008.4	7336.9	X26767.1	Y43500.3	328	29.5
0081	Mar-16	0032	4016.2	7310.8	X26582.0	Y43553.8	083	20.5
0082	Mar-16	0511	4026.2	7252.8	X26456.0	Y43627.6	057	21.1
0083	Mar-16	0750	4026.4	7244.7	X26390.5	Y43620.9	110	23.5
0084	Mar-16	1150	4028.7	7222.2	X26210.6	Y43617.2	120	29.0
0085	Mar-16	1621	4031.4	7213.4	X26141.0	Y43630.7	061	27.9
0086	Mar-17	0754	4036.5	7220.9	X26208.6	Y43682.4	068	25.2
0087	Mar-17	1201	4041.2	7213.1	X26149.0	Y43712.3	086	24.1
0088	Mar-17	1741	4043.2	7135.2	X25830.7	Y43683.3	163	35.0
0089	Mar-17	2311	4046.3	7130.5	X25792.7	Y43701.3	082	31.7
0090	Mar-18	0253	4101.3	7138.1	X25872.9	Y43824.9	067	21.3
0091	Mar-25	1446	4116.4	7122.5	X25762.0	Y43914.0	235	19.1
0092	Mar-25	1921	4106.1	7122.6	X25742.9	Y43839.5	149	19.1
0093	Mar-25	1944	4105.4	7122.3	X25738.8	Y43834.0	220	23.0
0094	Mar-25	2040	4103.1	7119.5	X25710.8	Y43813.5	135	21.9
0095	Mar-26	0201	4029.1	7114.4	X25665.2	Y43552.3	072	39.9
0096	Mar-26	0630	4031.2	7100.5	X25556.2	Y43554.8	088	41.0

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0097	Mar-26	1137	4011.7	7056.8	X25561.7	Y43404.1	060	70.5
0098	Mar-26	1547	4001.4	7048.1	X25526.6	Y43319.7	082	124.9
0099	Mar-26	1905	3956.2	7054.5	X25576.7	Y43283.6	262	247.4
0100	Mar-27	0214	3956.8	7034.2	X25455.8	Y43277.7	228	203.7
0101	Mar-27	0848	3957.7	7011.9	X25339.1	Y43273.0	223	231.6
0102	Mar-27	1505	4003.4	6954.8	W14191.6	Y43304.9	143	77.1
0103	Mar-27	1959	3957.0	6937.9	W14126.5	Y43251.3	202	234.0
0104	Mar-28	0552	3955.6	6944.6	W14163.8	Y43244.7	082	112.1
0105	Mar-28	1306	4014.8	6905.4	W13909.0	Y43354.2	073	55.0
0106	Mar-28	1546	4016.5	6913.4	W13942.0	Y43370.2	287	48.1
0107	Mar-28	1848	4026.0	6909.6	W13889.7	Y43429.8	259	43.7
0108	Mar-31	1437	4111.1	7028.7	X25266.3	Y43803.4	331	18.0
0109	Apr-01	0037	4011.8	7006.6	X25271.6	Y43370.7	358	55.0
0110	Apr-01	0530	4025.8	6945.2	W14070.5	Y43453.7	065	38.8
0111	Apr-01	0950	4023.7	6924.9	W13974.0	Y43425.2	093	38.3
0112	Apr-01	1238	4023.8	6922.8	W13963.2	Y43424.0	091	39.4
0113	Apr-01	2212	4023.7	6801.2	W13578.3	Y43374.7	093	77.6
0114	Apr-02	0432	4027.9	6721.8	W13393.4	Y43378.4	098	117.0
0115	Apr-02	0854	4038.4	6713.7	W13317.8	Y43432.4	244	58.0
0116	Apr-02	1312	4048.6	6741.7	W13392.4	Y43506.9	304	36.9
0117	Apr-24	0742	4002.6	6858.9	W13919.2	Y43271.7	086	13
0300	Feb-10	1241	4241.3	6814.9	W12982.3	Y44132.9	294	99.8
0301	Feb-10	1805	4256.5	6844.7	W13041.2	Y44246.8	049	104.7
0302	Feb-10	2211	4308.8	6836.5	W12923.0	Y44290.4	083	99.8
0303	Feb-11	0340	4313.4	6800.7	W12719.9	Y44258.8	178	110.7
0304	Feb-11	0719	4300.8	6759.6	W12793.9	Y44201.5	084	91.6
0305	Feb-11	1028	4255.6	6746.8	W12767.9	Y44161.1	357	107.4
0306	Feb-11	1438	4313.7	6740.6	W12628.9	Y44232.4	318	120.8
0307	Feb-11	1517	4314.4	6741.7	W12629.1	Y44236.9	312	126.0
0308	Feb-11	2028	4326.2	6758.8	W12628.7	Y44310.3	042	137.0
0309	Feb-12	0035	4338.7	6740.8	W12467.5	Y44335.7	016	129.3
0310	Feb-12	0600	4403.2	6732.6	W12265.5	Y44418.6	306	116.7
0311	Feb-12	1116	4417.6	6745.7	W12215.9	Y44490.0	221	41.8
0312	Feb-15	0025	4325.9	6853.3	W12901.4	Y44391.4	019	52.5
0313	Feb-15	1026	4346.3	6832.5	W12655.5	Y44442.7	334	89.1
0314	Feb-15	1323	4350.0	6835.2	W12643.9	Y44461.8	018	57.7
0315	Feb-15	1655	4346.8	6840.9	W12695.1	Y44458.2	003	58.0
0316	Feb-16	0040	4310.7	6848.4	W12972.4	Y44317.6	340	95.1
0317	Feb-16	0618	4328.7	6856.3	W12899.3	Y44408.2	356	62.1
0318	Feb-16	1230	4349.6	6902.6	W12792.8	Y44504.1	179	39.9
0319	Feb-16	1737	4344.5	6927.1	W12967.2	Y44525.3	183	53.0
0320	Feb-16	2257	4334.0	6918.2	W12986.0	Y44467.0	182	88.3
0321	Feb-17	0448	4316.0	6912.1	W13067.3	Y44379.1	294	94.1
0322	Feb-17	1138	4330.2	6942.0	W13150.0	Y44492.1	209	71.4
0323	Feb-17	1719	4322.9	7009.9	X25932.7	Y44511.0	195	59.6
0324	Feb-18	0048	4313.1	6947.6	W13292.6	Y44426.2	181	93.5
0325	Feb-18	0401	4306.1	6946.2	W13327.1	Y44391.4	268	89.7
0326	Feb-18	0944	4316.3	7010.6	X25898.5	Y44482.4	204	66.7
0327	Feb-18	1449	4301.1	7017.3	X25843.1	Y44423.6	118	86.1

NOAA Fisheries Service Cooperative Monkfish Survey
2009 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)
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0328	Feb-25	0459	4208.6	6858.5	W13383.5	Y44027.3	331	76.3
0329	Feb-25	0540	4208.3	6857.8	W13380.7	Y44025.1	316	77.1
0330	Feb-25	0938	4221.0	6908.6	W13370.6	Y44107.4	331	127.7
0331	Feb-25	1309	4228.0	6918.4	W13386.4	Y44158.2	154	124.9
0332	Feb-25	1625	4216.3	6918.6	W13450.7	Y44097.2	263	116.7
0333	Feb-25	2003	4213.9	6934.5	W13551.9	Y44107.6	214	128.5
0334	Feb-26	0618	4158.2	6952.0	W13730.5	Y44045.8	316	35.5
0335	Feb-26	1116	4213.3	7006.4	X25477.3	Y44154.2	347	51.1
0336	Feb-26	1541	4221.1	7005.7	X25528.1	Y44196.5	009	46.5
0337	Feb-26	1732	4221.4	7005.8	X25530.5	Y44198.1	000	45.4
0338	Feb-26	2306	4245.8	7010.4	X25713.9	Y44335.1	081	52.5
0339	Feb-27	0453	4246.0	7006.8	X25697.9	Y44329.9	135	75.7
0340	Feb-27	0844	4258.9	6958.8	W13445.5	Y44379.7	181	98.7
0341	Feb-27	1439	4253.1	7021.5	X25816.8	Y44392.2	294	70.3
0342	Feb-28	2135	4229.3	7020.5	X25660.8	Y44266.6	276	86.7
0343	Mar-01	0618	4249.8	7032.5	X25857.8	Y44396.1	124	62.6
0344	Mar-01	1236	4234.2	7009.4	X25634.3	Y44273.3	173	46.8
0345	Mar-01	1805	4219.0	6950.9	W13619.7	Y44160.9	134	121.4
0346	Mar-03	1142	4139.1	6933.4	W13715.8	Y43908.2	134	47.6
0347	Mar-03	1531	4135.2	6937.4	W13755.4	Y43890.3	098	27.6
0348	Mar-03	1846	4126.6	6924.2	W13722.3	Y43822.4	146	24.1
0349	Mar-04	0112	4111.1	6925.5	W13796.2	Y43729.4	195	19.4
0350	Mar-04	0243	4110.7	6925.9	W13799.9	Y43727.3	190	13.1
0351	Mar-04	0646	4110.0	6918.7	W13765.1	Y43715.6	181	27.9
0352	Mar-04	1142	4048.7	6907.0	W13791.5	Y43572.5	288	36.6
0353	Mar-04	1829	4038.8	6941.0	W14003.0	Y43537.0	268	28.2
0354	Mar-05	0121	4041.2	7014.6	X25215.7	Y43584.0	293	24.1
0355	Mar-10	2359	4226.2	6928.8	W13454.1	Y44164.7	041	141.3
0356	Mar-11	0057	4226.4	6928.6	W13452.4	Y44165.2	044	140.8
0357	Mar-11	0544	4233.6	6919.0	W13359.3	Y44187.6	053	123.9
0358	Mar-11	1125	4241.1	6858.9	W13206.7	Y44194.5	271	87.5
0359	Mar-12	1356	4225.9	6845.6	W13223.3	Y44099.5	132	112.4
0360	Mar-12	2107	4213.4	6811.8	W13124.2	Y43991.9	269	104.4
0361	Mar-13	0403	4208.9	6818.8	W13181.7	Y43977.7	150	103.3
0362	Mar-13	0834	4158.8	6822.8	W13253.6	Y43930.4	169	105.5
0363	Mar-13	1226	4146.5	6824.6	W13324.5	Y43866.5	037	110.7
0364	Mar-13	1727	4151.2	6756.8	W13170.0	Y43860.8	039	30.6
0365	Mar-13	2102	4203.8	6755.0	W13097.6	Y43923.3	092	105.5
0366	Mar-13	2333	4213.9	6748.8	W13015.2	Y43967.0	344	129.3
0367	Mar-14	0701	4226.2	6753.2	W12967.2	Y44032.6	077	110.2
0368	Mar-14	0821	4223.7	6750.6	W12969.5	Y44017.2	112	103.1
0369	Mar-14	1121	4213.8	6734.9	W12954.5	Y43950.5	120	131.0
0370	Mar-14	1335	4206.4	6728.3	W12966.0	Y43906.7	071	64.8
0371	Mar-14	1510	4203.7	6724.8	W12965.4	Y43890.0	271	28.4
0372	Mar-14	1841	4156.0	6726.8	W13013.6	Y43853.7	154	27.9
0373	Mar-15	0307	4138.8	6654.6	W12969.0	Y43737.0	242	33.6
0374	Mar-15	0734	4118.8	6648.7	W13041.4	Y43630.9	256	38.5
0375	Mar-15	0955	4123.7	6700.8	W13066.1	Y43665.4	250	32.8

NOAA Fisheries Service Cooperative Monkfish Survey
2009 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Depth (FM)
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0376	Mar-15	1433	4119.9	6717.3	W13150.3	Y43659.3	088	26.2
0377	Mar-15	1734	4111.4	6716.6	W13186.4	Y43613.8	228	29.3
0378	Mar-15	2045	4103.7	6725.0	W13256.0	Y43578.7	276	33.1
0379	Mar-16	0551	4106.5	6809.3	W13439.0	Y43628.8	312	24.6
0380	Mar-16	0954	4110.4	6820.1	W13471.9	Y43661.0	358	25.7
0381	Mar-16	1405	4124.3	6835.4	W13483.0	Y43755.1	221	47.6
0382	Mar-16	2020	4136.3	6854.8	W13524.2	Y43844.8	319	61.0
0383	Mar-16	2106	4135.7	6853.8	W13522.2	Y43839.9	032	61.8
0384	Mar-17	0206	4144.4	6902.6	W13526.0	Y43899.9	248	95.4
0385	Mar-17	1006	4118.9	6858.9	W13624.6	Y43748.4	217	77.9
0386	Mar-17	1504	4111.7	6856.3	W13642.8	Y43702.5	214	56.6
0387	Mar-17	1936	4105.5	6851.2	W13643.7	Y43661.1	256	41.0
0388	Mar-18	0227	4055.3	6940.0	W13936.6	Y43644.5	235	22.4
0389	Mar-27	0701	4038.7	6847.0	W13732.1	Y43494.3	165	34.4
0390	Mar-27	0948	4036.3	6846.7	W13740.0	Y43478.9	195	34.2
0391	Mar-27	1623	4006.5	6841.0	W13822.2	Y43288.4	100	122.5
0392	Mar-27	1713	4006.8	6841.2	W13822.1	Y43290.4	106	132.1
0393	Mar-27	2306	4008.8	6844.0	W13827.8	Y43304.5	086	88.6
0394	Mar-28	0730	4024.0	6801.0	W13576.7	Y43375.8	317	76.8
0395	Mar-28	1011	4033.8	6806.8	W13563.8	Y43437.5	090	52.5
0396	Mar-28	1223	4038.8	6759.0	W13508.8	Y43462.2	302	45.7
0397	Mar-28	1645	4046.1	6818.8	W13569.2	Y43518.1	224	31.2
0398	Mar-29	0342	4039.7	6925.6	W13920.3	Y43530.2	254	28.2
0399	Apr-24	1358	4039.7	6703.5	W13271.0	Y43434.2	077	99.5
0400	Apr-24	1629	4038.5	6700.9	W13265.5	Y43426.3	139	126.9
0401	Apr-24	1827	4037.6	6657.4	W13255.7	Y43419.3	053	132.1
0402	Apr-24	2226	4051.2	6654.7	W13187.6	Y43491.1	063	49.5
0403	Apr-25	0633	4054.1	6634.4	W13097.2	Y43494.1	060	122.2
0404	Apr-25	0917	4056.3	6630.7	W13073.4	Y43503.5	062	133.7
0405	Apr-25	1318	4056.3	6628.8	W13066.3	Y43502.3	035	186.2
0406	Apr-25	2035	4100.7	6628.0	W13044.2	Y43524.6	024	87.2
0407	Apr-25	2345	4106.2	6626.8	W13015.3	Y43551.8	323	60.1
0408	Apr-26	0228	4105.5	6627.1	W13019.7	Y43548.5	344	61.0
0409	Apr-26	1023	4108.3	6633.4	W13030.6	Y43566.8	230	48.7

NOAA FISHERIES SERVICE COOPERATIVE MONKFISH SURVEY 02/09/09 - 05/01/09
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID	TOTAL * OTHER	TOTAL ALL
STATION																										
1	0	22	97	0	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	33	0	0	14	180
2	0	0	39	0	0	0	0	0	0	0	0	33	0	0	0	3	0	0	0	0	0	59	0	0	16	150
3	42	11	117	0	0	0	0	0	0	0	0	64	0	0	0	2	0	0	0	0	0	158	0	0	83	477
4	12	0	23	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	38	0	0	15	111
5	39	0	38	0	0	0	0	0	0	0	0	55	0	0	0	3	0	0	0	0	0	292	0	0	299	726
6	4	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	72	0	0	764	846
7	39	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	39	0	0	361	441
8	14	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	49	0	0	301	370
9	4	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	145	0	0	58	234
10	0	11	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	50	0	0	72	137
11	58	10	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	147	226
12	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184	305
13	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	816	892
14	388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	430	818
*15	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
16	678	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	190	0	0	45	913
17	335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	88	0	0	53	478
18	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	11	0	3	177	197
19	338	0	0	0	5	0	0	0	0	0	0	5	0	0	3	0	0	0	0	0	0	253	0	1	62	667
20	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	0	9	112	249
21	15	0	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	0	19	0	2	211	329
22	14	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	197	0	2	55	295
23	1	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	82	0	1	115	223
24	15	0	341	0	0	0	0	0	0	0	0	105	0	0	1	0	0	0	0	0	0	199	0	2	147	810
25	7	0	513	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	243	0	2	63	864
26	0	0	313	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	672	0	1	46	1067
27	43	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	60	0	0	0	122
28	197	0	0	0	2	0	0	0	0	1	0	0	0	0	16	0	0	0	0	76	0	99	4	0	28	423
29	27	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	23	0	0	0	1	12	86
30	136	0	0	0	15	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	119	3	1	38	314
31	123	0	0	0	0	0	0	0	14	0	0	0	0	0	12	0	0	0	0	517	0	41	2	0	68	777
32	578	0	1	0	0	0	0	0	0	1	0	0	0	0	7	0	0	0	0	645	0	119	47	0	33	1431
33	25	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	3	0	26	0	152	0	0	26	291
34	264	0	0	0	0	0	0	0	26	0	0	2	0	0	9	0	0	0	0	841	0	197	18	0	19	1376
35	621	0	0	0	0	0	0	0	8	4	0	0	0	0	8	0	0	0	0	443	0	189	3	0	26	1302
36	180	0	0	0	0	0	0	0	0	1	0	0	0	0	10	0	0	0	0	241	0	499	15	0	29	975
37	283	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	1268	0	47	6	0	10	1619
38	11	0	28	0	0	0	0	0	0	1	0	16	0	0	1	0	0	0	0	52	0	58	6	1	63	237
39	27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	53	0	0	8	90
40	47	0	0	0	1	0	0	0	0	0	0	12	0	0	1	0	0	0	0	0	0	70	0	0	48	179
41	30	0	8	0	3	0	0	0	0	0	0	67	0	0	1	0	0	0	0	0	0	0	0	5	29	143
42	840	0	0	0	5	0	0	0	0	4	0	2	0	0	3	0	0	0	0	878	0	203	3	0	11	1949
43	538	0	0	0	3	0	0	0	0	0	0	0	0	0	7	0	0	0	0	298	0	343	10	0	18	1217
44	8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	23	0	0	0	0	59	91

NOAA FISHERIES SERVICE COOPERATIVE MONKFISH SURVEY 02/09/09 - 05/01/09
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID	TOTAL * OTHER	TOTAL ALL
45	31	0	95	0	0	0	0	0	0	0	0	154	0	0	0	0	0	0	0	1	0	37	0	1	34	353
46	54	0	210	0	0	0	0	0	0	0	0	42	0	0	2	0	0	0	0	0	0	231	0	2	99	640
47	228	0	7	0	1	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	682	0	1	11	941
48	16	12	153	0	0	0	0	0	0	0	0	23	0	0	0	11	0	0	0	0	0	11	0	0	1	227
49	0	4	258	0	0	0	0	0	0	0	0	7	0	0	0	8	0	0	0	0	0	29	0	0	64	370
50	1	5	93	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	172	0	0	36	313
51	0	11	264	0	0	0	0	0	0	0	0	12	0	0	0	3	0	0	0	0	0	57	0	0	42	389
52	5	3	446	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	43	0	0	4	503
53	2	0	411	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	239	0	0	85	744
54	0	46	317	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	956	0	2	22	1354
55	15	11	221	0	0	0	0	0	0	0	0	6	1	0	0	2	0	0	0	0	0	117	0	0	30	403
56	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
57	38	323	42	1	1	0	0	0	0	0	0	10	15	0	1	12	0	0	0	0	1	66	0	0	15	525
58	75	12	8	0	8	0	0	0	0	1	0	21	0	0	0	0	0	0	0	0	0	103	0	0	59	287
59	173	0	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	18	0	0	39	235
60	53	0	0	0	0	0	0	0	0	0	0	7	0	0	2	0	0	0	0	0	0	18	0	1	19	100
61	268	0	0	0	0	0	0	0	2	0	0	0	0	0	12	0	0	0	0	665	0	0	9	0	36	992
62	47	4	0	0	0	0	0	0	0	1	0	269	0	0	0	0	0	0	0	17	0	16	0	1	40	395
63	194	0	2	0	2	0	0	0	0	1	0	0	0	0	2	0	0	0	0	2	0	87	0	0	20	310
64	33	27	3	0	9	0	0	0	1	0	0	423	0	0	0	0	0	0	0	0	0	19	0	0	39	554
65	22	0	3	0	4	0	0	0	0	1	0	29	0	0	0	0	0	0	0	0	0	0	1	3	43	106
66	427	0	0	0	0	0	0	0	0	6	0	0	0	0	15	0	0	0	0	460	0	9	20	0	118	1055
67	77	0	0	0	3	0	0	0	0	0	0	26	0	0	0	0	0	0	0	13	0	41	1	2	31	194
68	256	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	0	123	1	0	102	487
69	459	0	0	0	4	0	0	0	9	3	0	0	0	0	7	0	0	0	0	480	0	28	20	0	51	1061
70	40	0	74	0	2	0	0	0	0	1	0	176	0	0	0	0	0	0	0	30	0	126	0	0	257	706
71	15	2	485	0	2	0	0	0	0	0	0	6	0	0	2	0	0	0	0	0	0	121	0	1	72	706
72	54	78	665	2	3	0	0	0	0	0	0	59	3	0	1	0	0	0	0	0	0	214	0	0	117	1196
73	128	0	661	0	4	0	0	0	1	7	0	49	0	0	29	0	0	0	0	0	13	191	21	0	137	1241
74	114	11	2915	0	2	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	3750	0	1	58	6867
75	0	21	217	0	0	11	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1919	0	0	31	2202
76	5	0	156	0	1	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	371	0	0	44	587
77	12	0	425	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	101	0	1	83	631
78	14	16	180	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	398	0	0	31	656
79	1	5	863	0	0	0	0	0	0	0	0	1	10	1	3	4	0	0	0	0	37	83	0	0	13	1021
80	6	96	359	0	0	0	0	0	0	0	0	3	6	0	1	4	0	0	0	0	3	18	2	0	33	531
81	0	46	524	0	0	0	0	0	0	0	0	0	20	0	0	5	0	0	0	0	23	11	0	0	97	726
82	15	32	779	0	0	0	0	0	0	0	0	1	12	4	1	10	0	0	0	0	28	7	0	0	28	917
83	0	7	354	0	0	0	0	0	0	0	0	4	24	1	3	3	0	0	0	0	24	37	0	0	50	507
84	35	4	964	0	0	0	0	0	0	0	0	3	28	1	0	4	0	0	0	0	10	169	0	0	17	1235
85	89	25	1127	0	2	6	0	0	0	0	0	12	12	0	1	2	2	0	0	0	13	159	0	0	49	1499
86	0	45	527	0	0	0	0	0	0	0	0	11	12	0	1	5	0	0	0	0	3	55	0	0	6	665
87	10	5	516	0	0	0	0	0	0	0	0	1	17	0	0	3	0	0	0	0	97	18	2	0	23	692
88	125	72	427	0	3	0	0	0	0	0	0	19	44	0	1	1	0	0	0	0	1	23	0	0	51	767
89	37	26	157	0	0	0	0	0	0	0	0	17	7	2	0	4	0	0	0	0	0	4	0	0	8	262

NOAA FISHERIES SERVICE COOPERATIVE MONKFISH SURVEY 02/09/09 - 05/01/09
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID	TOTAL * OTHER	TOTAL ALL
90	0	304	846	0	0	0	0	0	0	0	0	3	35	22	0	19	0	0	0	0	0	0	0	0	8	1237
91	0	742	1169	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	0	0	12	0	6	0	39	1973
92	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
93	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
94	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
95	26	1955	349	0	1	0	0	0	0	0	0	16	11	0	0	1	0	0	0	0	0	75	0	0	27	2461
96	23	411	15	0	0	0	0	0	0	0	0	1	7	0	0	7	0	0	0	0	1	11	3	0	56	535
97	124	9	0	0	4	0	0	0	7	0	0	138	0	0	0	0	0	1	0	0	0	95	0	1	99	478
98	177	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	56	237
99	460	0	0	0	0	0	0	0	23	0	0	0	0	0	14	0	0	0	0	716	0	0	14	0	58	1285
100	222	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	669	0	0	13	0	63	969
101	544	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	57	0	0	29	0	19	651
102	120	325	1	0	0	0	0	0	0	1	0	158	0	0	1	0	0	0	0	0	0	0	3	0	141	750
103	887	10	0	0	0	0	0	0	40	1	0	0	0	0	18	0	0	0	2	162	0	22	30	0	104	1276
104	7	0	0	0	1	0	0	0	0	1	0	12	0	0	9	0	0	6	0	9	0	19	0	0	54	118
105	4	354	25	0	7	0	0	0	0	3	0	9	4	0	4	28	0	0	0	0	2	2	0	1	13	456
106	8	22	44	0	1	0	0	0	0	0	0	12	4	0	1	9	0	0	0	0	0	4	0	0	15	120
107	0	844	1514	0	0	0	0	0	0	0	0	5	0	0	0	24	0	0	0	0	0	6	0	0	23	2416
108	0	4	10	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	18
109	52	117	6	0	1	0	0	0	0	1	0	70	0	0	0	0	0	0	0	0	0	0	0	0	38	285
110	3	282	357	0	0	1	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	3	0	0	31	686
111	1	297	482	0	0	4	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	14	806
112	0	404	543	0	0	2	0	0	0	1	0	0	2	0	2	14	0	0	0	0	1	5	0	0	15	989
113	53	113	9	0	2	0	0	0	2	0	0	30	0	0	5	0	0	0	0	0	0	0	0	0	80	294
114	116	422	1	0	3	0	0	0	1	2	0	4	0	0	14	0	0	0	0	0	0	0	0	1	98	662
115	8	105	25	0	1	0	0	0	0	0	0	0	13	0	4	4	0	0	0	0	0	8	2	0	34	204
116	0	40	221	0	1	10	10	0	0	0	0	2	9	0	2	10	0	0	0	0	3	8	2	0	57	375
117	4	0	1	0	10	13	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	18	0	206	255
300	52	0	0	0	1	43	5	13	45	0	4	0	0	0	14	0	0	0	152	0	0	12	13	0	31	385
301	1	0	0	0	0	3	2	9	0	0	1	0	0	0	18	0	0	0	36	0	0	38	38	0	13	159
302	94	0	0	0	3	0	0	14	0	0	5	0	0	0	7	0	0	0	1	0	0	12	14	0	13	163
303	59	0	0	0	0	0	0	8	6	0	6	0	0	0	5	0	0	0	1	2	0	6	23	0	25	141
304	9	0	0	0	0	16	2	14	17	0	1	0	0	0	28	0	0	0	64	0	0	10	1	0	18	180
305	0	0	0	0	4	5	7	38	10	0	0	0	0	0	4	0	0	0	436	0	0	20	4	0	22	550
306	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
307	41	0	0	0	0	0	6	0	26	0	8	0	0	0	2	0	0	0	6	0	0	8	0	0	27	124
308	72	0	0	0	0	0	0	0	7	0	21	0	0	0	4	0	0	0	29	2	0	0	21	0	15	171
309	50	0	0	0	0	0	0	0	34	0	11	0	0	0	8	0	0	0	1	1	0	0	20	0	9	134
310	10	0	0	0	0	0	0	0	141	0	1	0	0	0	10	0	0	0	2	0	0	0	42	0	33	239
311	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	0	6	90
312	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	67	0	70	139
313	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	42	0	31	76
314	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	39	0	18	62
315	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	33	0	12	47
316	31	0	0	0	3	0	0	7	0	0	4	0	0	0	6	0	0	0	0	1	0	83	19	0	8	162

CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	Species																								TOTAL * OTHER	TOTAL ALL
	GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID		
317	6	0	0	0	1	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	53	0	30	95
318	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	206	0	9	222
319	0	0	5	0	0	0	0	0	0	0	2	0	0	5	0	2	0	0	1	0	0	0	90	0	13	118
320	0	0	0	0	0	0	0	0	4	0	2	0	0	0	9	0	0	0	0	4	0	0	9	0	9	37
321	57	0	0	0	10	6	0	0	0	0	6	0	0	0	11	0	0	0	0	2	0	12	0	0	4	108
322	2	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	1	1	0	0	17	0	13	39
323	5	0	0	0	1	0	0	0	0	1	6	0	4	1	0	4	0	0	0	0	0	0	34	0	23	79
324	56	0	0	0	11	13	0	0	0	0	11	0	0	0	37	0	0	0	191	0	0	11	19	0	10	359
325	81	0	0	0	4	0	0	14	0	0	7	0	0	0	3	0	0	0	0	1	0	18	18	0	10	156
326	8	0	0	0	6	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	7	17	0	32	74
327	19	0	6	0	12	0	0	0	0	0	7	0	0	0	2	0	0	0	0	2	0	0	9	0	4	61
328	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
329	3	0	0	0	0	8	3	9	0	0	3	0	0	0	3	0	0	0	14	0	0	18	0	0	43	104
330	118	50	0	0	1	0	4	26	19	2	22	0	0	0	16	0	0	0	10	0	0	125	0	0	18	411
331	38	0	0	0	0	6	0	21	26	0	28	0	0	0	6	0	0	0	3	0	0	10	0	0	2	140
332	44	7	0	0	0	19	0	62	9	1	13	0	0	0	5	0	0	0	0	0	0	24	2	0	33	219
333	268	13	0	0	2	0	0	28	29	0	33	0	0	0	20	0	0	0	0	0	0	6	0	0	36	435
334	0	0	0	7	0	54	0	0	0	0	0	0	2	0	1	1	0	0	1	0	2	0	18	0	148	234
335	0	104	328	0	1	4	11	0	0	0	1	7	3	1	0	12	0	0	0	0	3	0	4	0	86	565
336	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
337	0	0	0	0	0	1489	13	0	0	0	1	0	3	0	0	1	0	0	0	0	0	0	11	0	54	1572
338	2	0	0	0	1	48	0	7	0	0	1	0	2	1	5	1	0	0	1	0	0	0	8	0	73	150
339	8	0	0	0	2	57	8	49	0	0	28	0	1	0	7	0	0	0	7	0	0	8	4	0	64	243
340	97	0	0	0	6	52	0	6	32	5	18	0	1	0	22	0	0	0	0	0	0	21	25	0	83	368
341	2	7	0	0	0	174	0	0	0	0	20	0	0	2	12	2	0	0	3	0	0	0	113	0	61	396
342	50	0	0	0	3	30	18	0	0	0	57	0	2	4	8	1	0	0	49	1	0	0	20	0	86	329
343	7	0	66	0	0	0	0	0	0	0	6	0	4	0	0	0	0	0	0	0	0	0	6	0	4	93
344	0	0	1	0	0	4	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	16	70
345	43	109	0	0	1	0	13	130	31	2	45	0	0	0	3	0	0	0	0	0	0	24	12	0	10	423
346	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	64	0	30	105
347	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	2	5
348	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	61	65
349	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	5	0	20	28
350	0	0	1	0	0	0	0	0	0	0	0	0	0	7	0	3	0	0	0	0	0	0	0	0	1	12
351	0	0	3	0	0	2	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0	0	0	25	37
352	0	0	4	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	8	17
353	0	226	900	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	10	1140
354	0	0	43	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	44
355	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
356	101	0	0	0	1	0	7	123	10	0	28	0	0	0	2	0	0	0	56	0	0	27	0	0	1	356
357	122	0	2	0	1	0	0	78	6	0	18	0	0	0	2	0	0	0	0	0	0	0	0	0	37	266
358	88	0	0	0	0	9	0	7	0	0	3	0	0	0	16	0	0	0	12	0	0	12	0	0	34	181
359	134	8	0	0	2	0	0	48	45	0	0	0	0	0	10	0	0	0	0	0	0	19	0	0	18	284
360	15	8	0	0	0	0	0	3	1	0	1	0	0	0	1	0	0	0	21	0	0	0	3	0	3	56
361	29	37	0	0	0	0	0	0	0	0	2	0	0	0	10	0	0	0	0	0	0	0	0	0	11	89

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	GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID	TOTAL * OTHER	TOTAL ALL
362	56	14	0	0	1	0	0	0	0	0	1	0	0	0	8	0	0	0	0	0	0	0	0	0	18	98
363	17	23	0	0	0	17	3	0	6	0	5	0	0	0	7	0	0	0	0	0	0	0	49	0	39	166
364	0	21	75	0	0	3	0	0	0	0	1	0	1	0	0	7	0	0	0	0	0	0	0	0	168	276
365	12	15	0	0	5	40	4	0	13	1	3	0	0	0	7	0	0	0	0	0	0	0	40	0	14	154
366	36	374	0	0	2	9	0	0	19	3	0	0	0	0	10	0	0	0	12	0	0	0	39	0	37	541
367	92	18	0	0	3	0	0	6	13	0	0	0	0	0	5	0	0	0	2	0	0	0	4	0	5	148
368	119	0	0	0	3	0	0	0	45	0	1	0	0	0	3	0	0	0	23	0	0	316	22	0	4	536
369	32	0	0	0	0	50	0	9	21	0	0	0	0	0	2	0	0	0	47	0	0	8	31	0	9	209
370	13	156	99	0	0	7	5	0	0	0	8	0	3	3	0	9	0	0	0	0	0	0	25	0	1	329
371	0	11	6	0	0	0	0	0	0	0	0	0	0	33	0	3	0	0	0	0	0	0	4	0	11	68
372	0	37	249	0	0	0	6	0	0	0	3	0	0	4	0	0	0	0	0	0	1	0	3	0	31	334
373	0	6	133	0	0	12	0	0	0	0	1	0	7	15	0	11	0	0	0	0	0	0	0	0	2	187
374	0	22	103	0	0	10	17	0	0	0	2	0	4	14	0	19	0	0	0	0	0	0	0	0	137	328
375	0	28	65	0	0	151	3819	0	0	0	1	0	0	0	0	19	0	0	0	0	0	0	0	0	7	4090
376	0	9	4	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17
377	0	239	333	0	0	0	0	0	0	0	3	0	0	2	0	13	0	0	0	0	0	0	0	0	7	597
378	0	272	661	0	0	0	0	0	0	0	2	0	1	2	0	18	0	0	0	0	0	0	6	0	38	1000
379	0	0	1	0	0	0	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	8
380	0	0	5	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9	0	4	36
381	8	47	141	24	0	30	15	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	7	0	11	286
382	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
383	9	8	0	0	0	0	77	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	39	135
384	93	42	0	0	1	211	4	0	7	0	8	0	0	0	12	0	0	0	2	6	0	0	13	0	58	457
385	4	0	1	0	0	10	95	0	0	0	3	0	2	0	0	2	0	0	12	0	0	5	16	0	43	193
386	0	7	18	0	0	0	3	0	0	0	0	0	6	1	0	1	0	0	0	0	0	0	0	0	6	42
387	0	32	67	0	0	0	24	0	0	0	0	0	0	14	0	0	0	0	0	0	0	2	7	0	21	167
388	0	2	4	0	0	0	0	0	0	0	0	0	1	15	0	0	0	0	0	0	0	0	0	0	5	27
389	0	27	110	0	0	0	0	0	0	0	0	0	1	3	0	4	0	0	0	0	0	0	0	0	5	150
390	0	29	120	0	0	7	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	10	0	0	4	176
391	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
392	131	3509	0	0	6	0	0	0	0	0	0	150	0	0	14	0	0	0	0	0	0	0	5	0	158	3973
393	47	631	8	0	2	0	0	0	0	0	0	39	14	0	8	18	0	0	0	0	0	0	0	0	45	812
394	21	98	5	0	6	0	0	0	1	0	0	63	0	0	7	1	0	0	0	0	0	0	0	0	56	258
395	1	410	109	1	6	0	0	0	0	0	0	1	2	0	8	8	0	0	0	0	0	3	0	0	19	568
396	0	27	59	0	1	0	0	0	0	0	1	0	2	0	0	10	0	0	0	0	0	0	0	0	18	118
397	0	25	221	0	0	8	0	0	0	0	0	0	1	5	0	2	0	0	0	0	0	4	0	0	9	275
398	0	18	13	0	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	3	42
399	22	276	0	0	20	0	0	0	0	2	0	2	0	0	10	0	0	0	0	0	0	0	0	0	205	537
400	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
401	9	0	0	0	3	0	0	0	4	1	0	0	0	0	6	0	0	0	0	0	0	0	22	0	41	86
402	18	127	38	0	0	0	0	0	0	4	0	0	0	0	18	1	0	0	0	0	1	0	14	0	731	952
403	70	0	1	0	1	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	35	0	66	177
404	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
405	423	0	0	0	0	0	0	0	34	0	0	0	0	0	6	0	0	0	202	0	0	0	994	0	511	2170
406	0	8	5	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	3	0	103	121

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CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

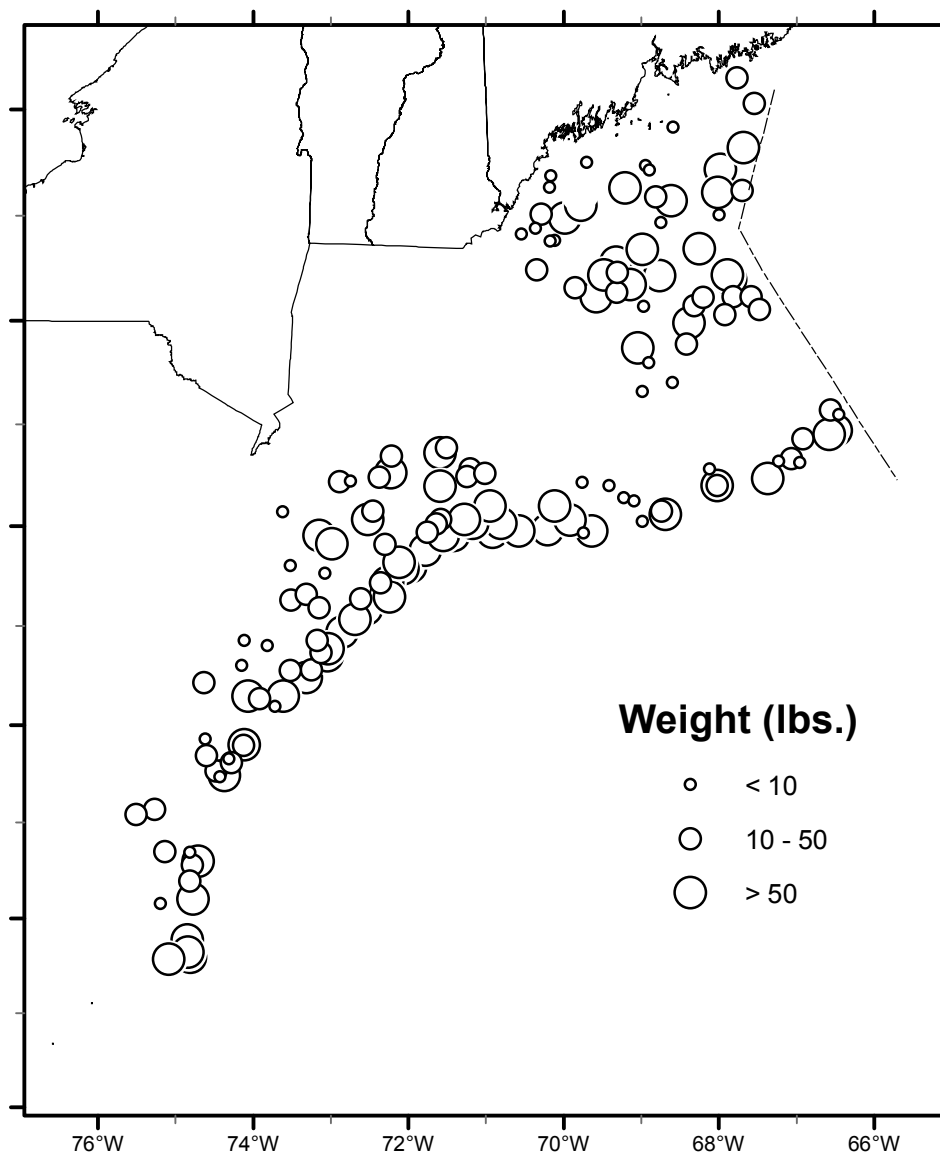
	GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID	TOTAL * OTHER	TOTAL ALL
407	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
408	7	0	0	0	1	2	0	0	5	0	0	0	1	0	4	2	0	0	0	0	0	0	10	0	269	301
409	30	710	14	0	0	0	239	0	0	0	0	0	546	0	1	8	0	0	0	0	0	0	0	0	96	1644
TOTAL	15287	15611	26079	35	260	2682	4470	729	804	71	490	2958	916	200	708	433	2	10	1401	8641	280	17297	2888	51	13408	115711

* "Total other" in southern areas are comprised primarily of clearnose skate, smooth dogfish and spotted hake.*

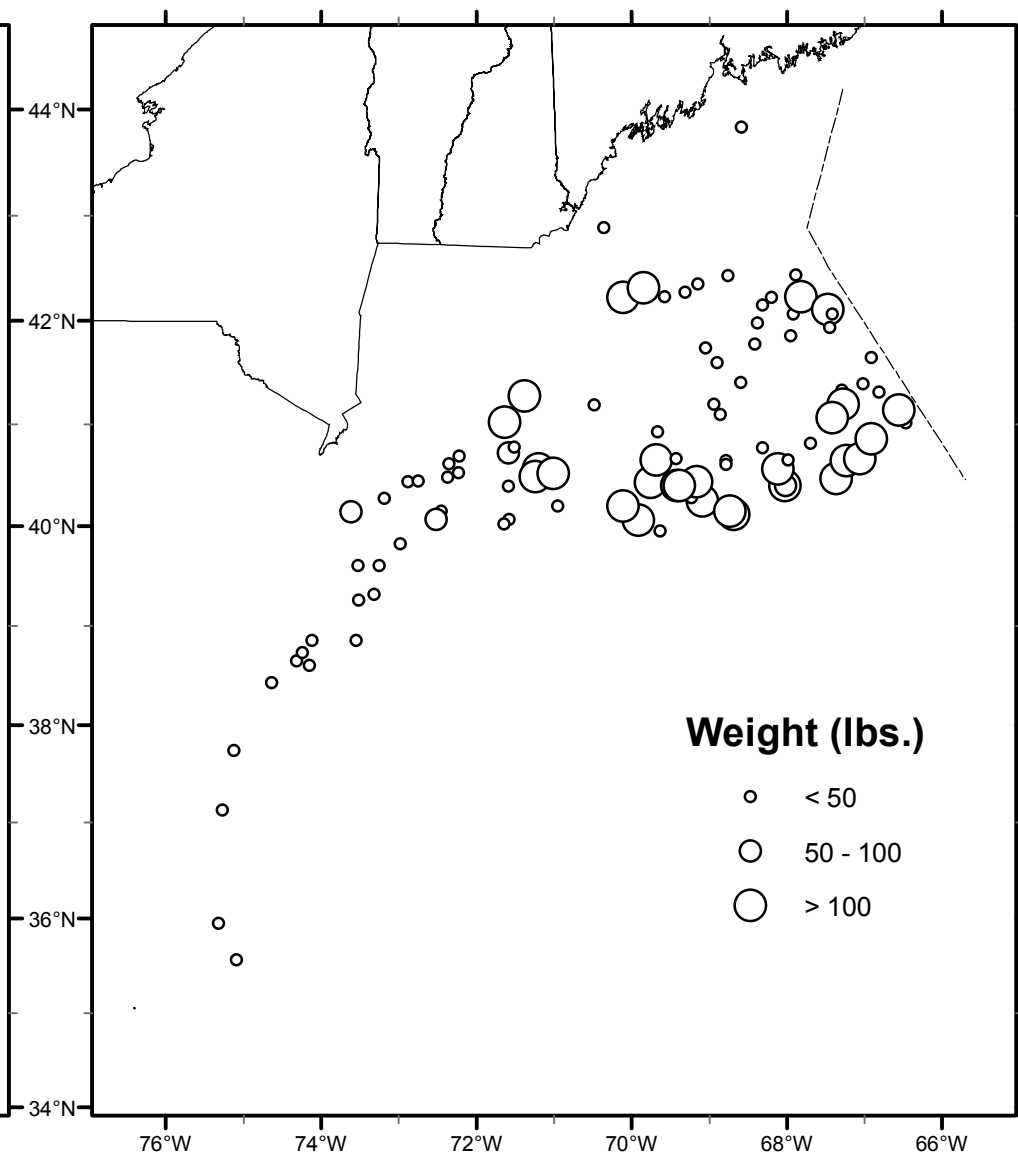
GOOSEFISH	WINTER SKATE	LITTLE SKATE	ATLANTIC HERRING	SILVER HAKE	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	RED HAKE	AMERICAN PLAICE	SUMMER FLOUNDER	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	WITCH FLOUNDER	WINDOWPANE	ATLANTIC MACKEREL	BUTTERFISH	ACADIAN REDFISH	RED CRAB	OCEAN POUT	SPINY DOGFISH	AMERICAN LOBSTER	LOLIGO SQUID	TOTAL * OTHER	TOTAL ALL
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*Station 15 had est 4000kg of Dogfish not brought aboard the vessel due to safety concerns.

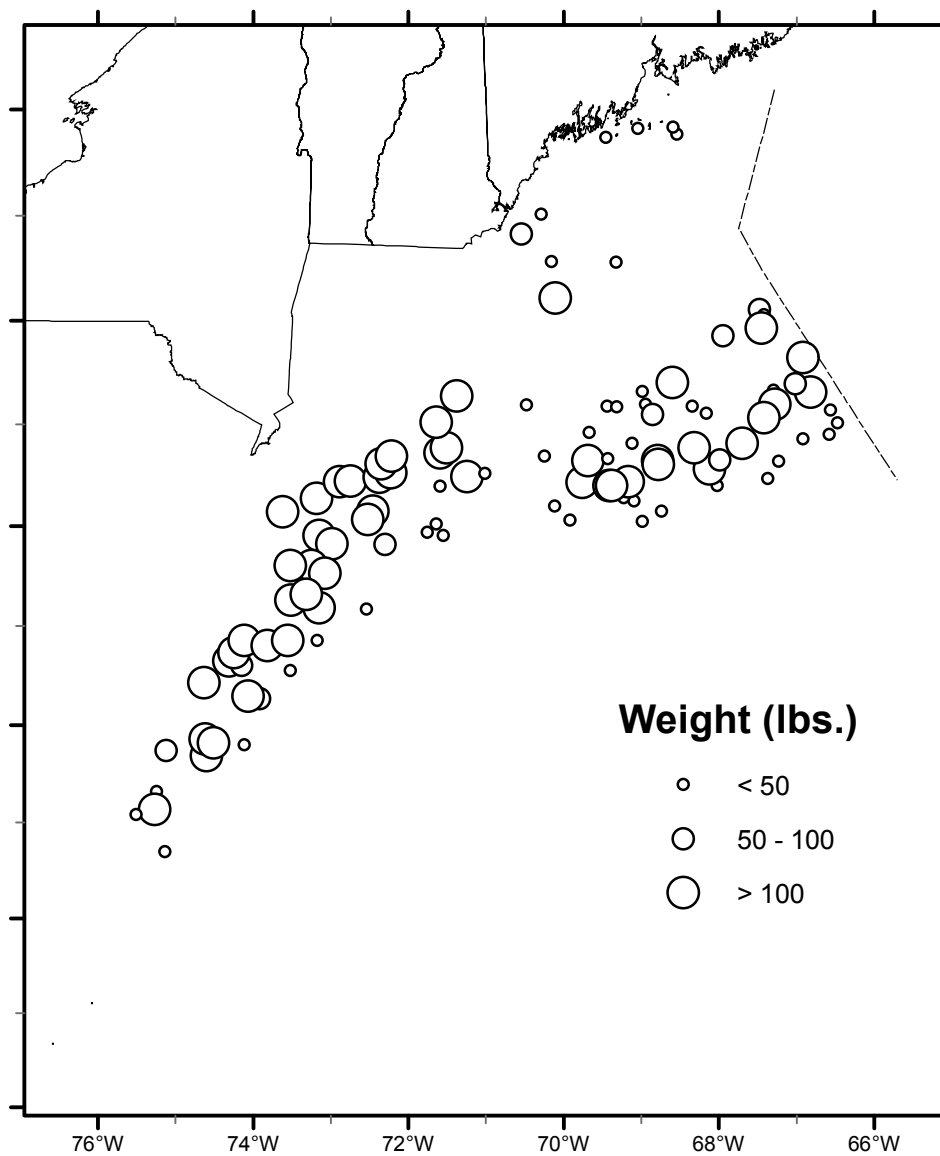
MONKFISH
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



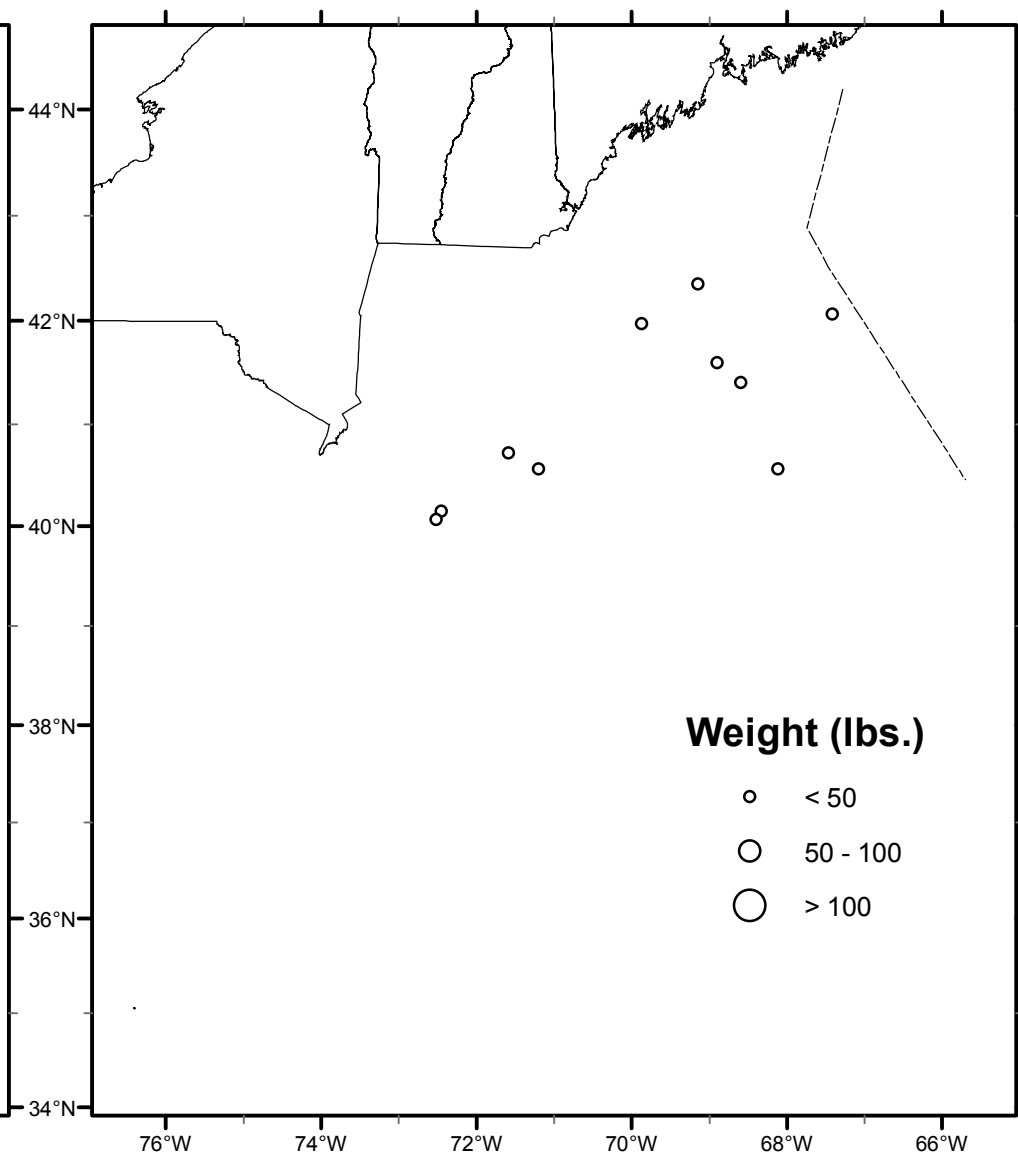
WINTER SKATE
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



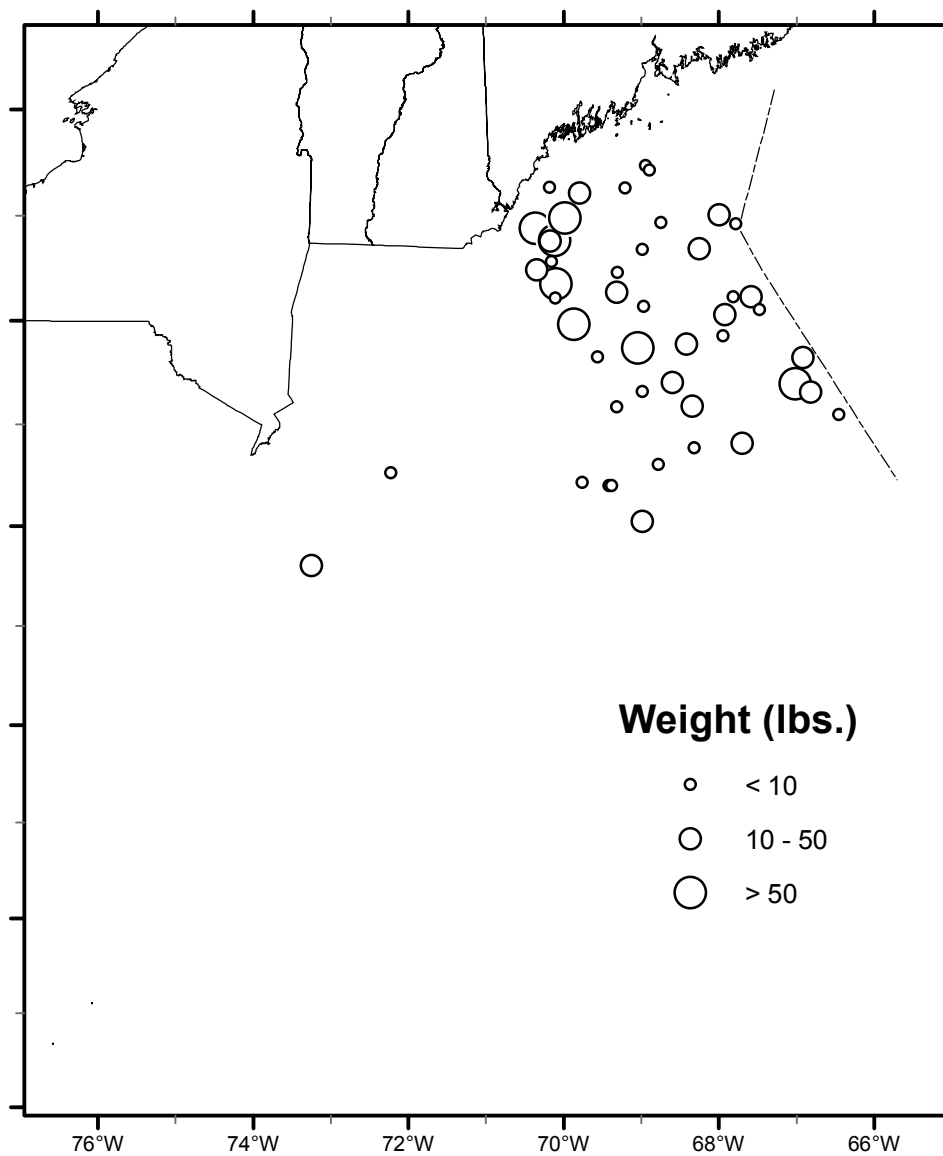
LITTLE SKATE
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



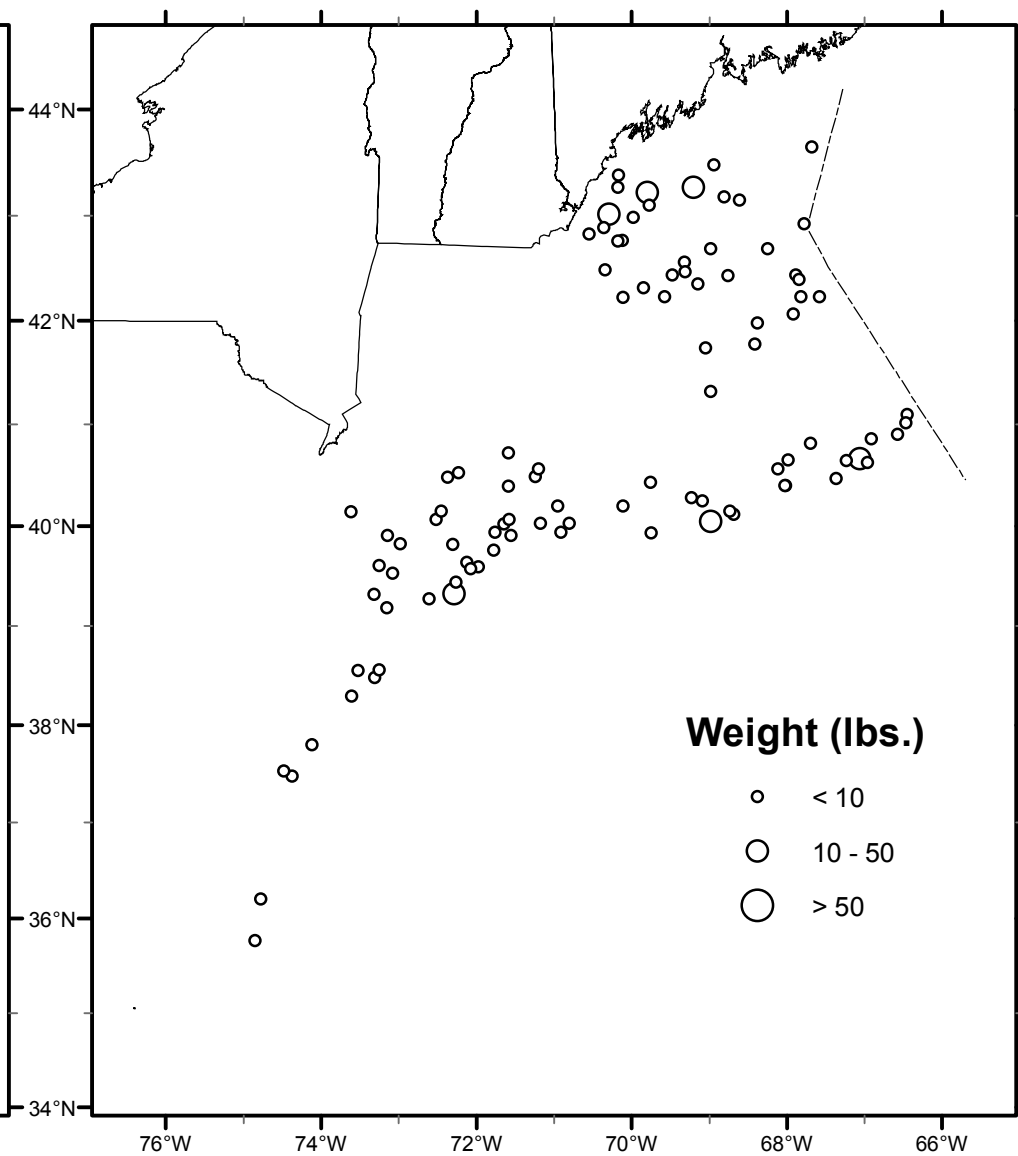
ATLANTIC HERRING
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



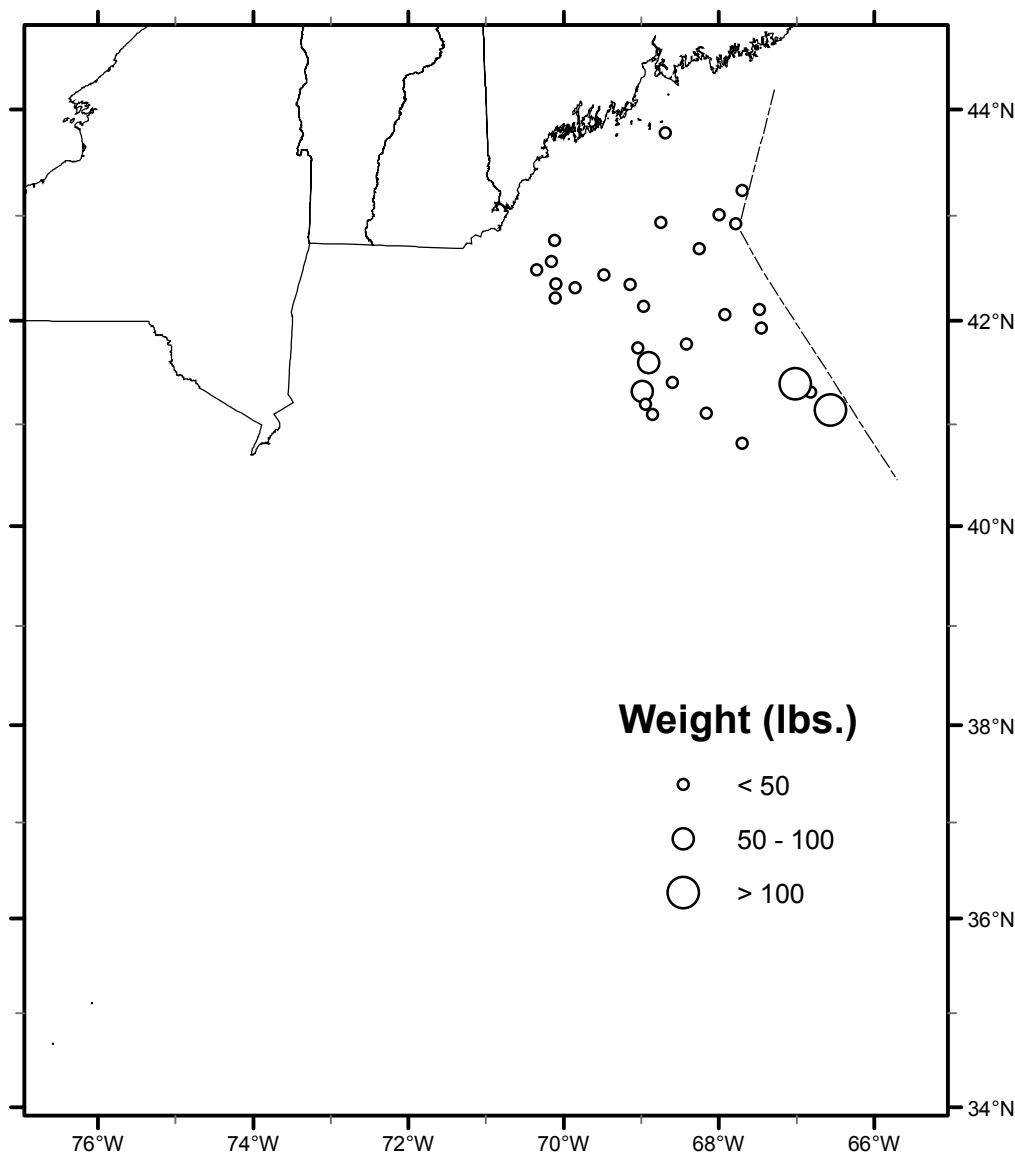
COD
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



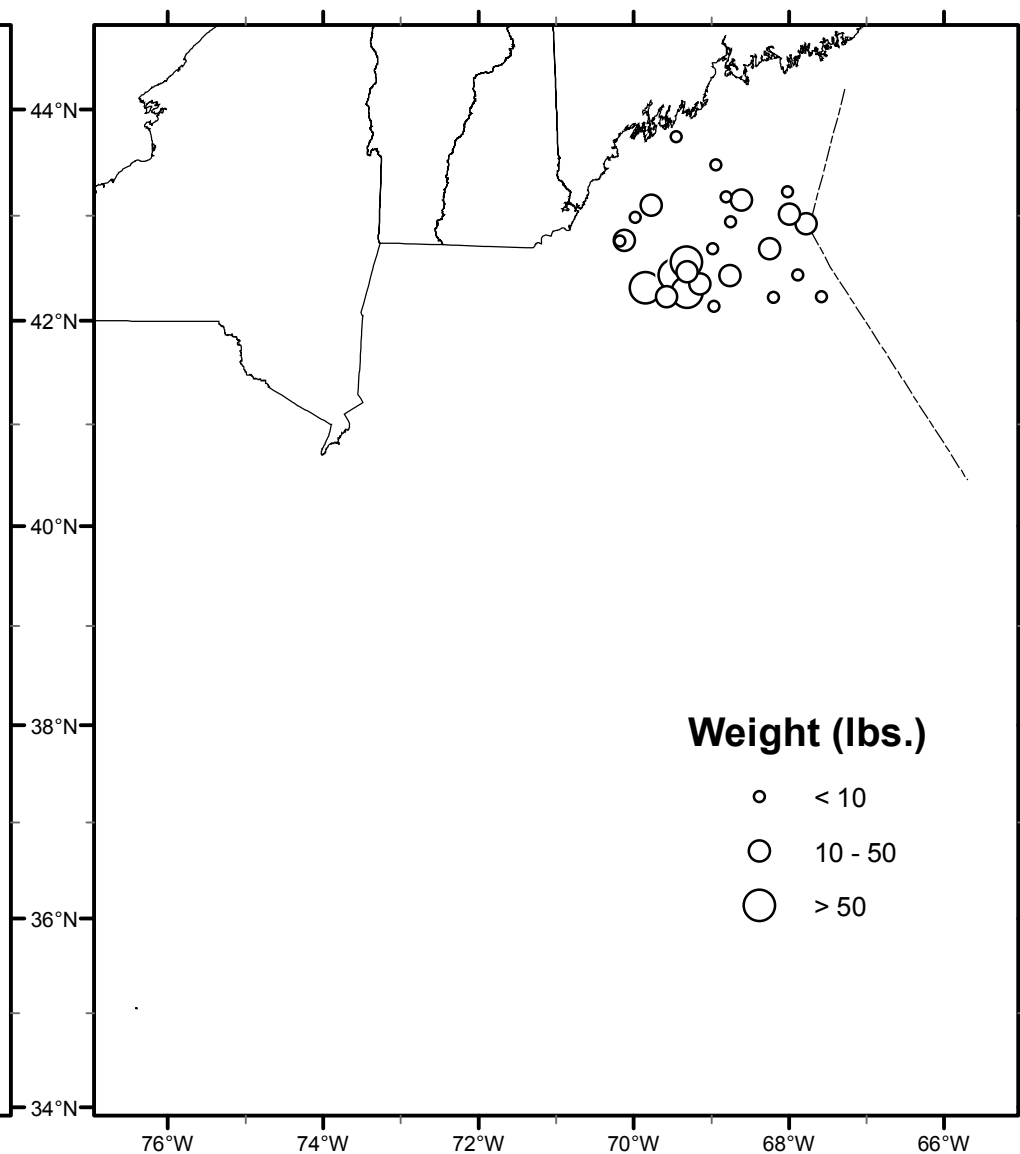
SILVER HAKE
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



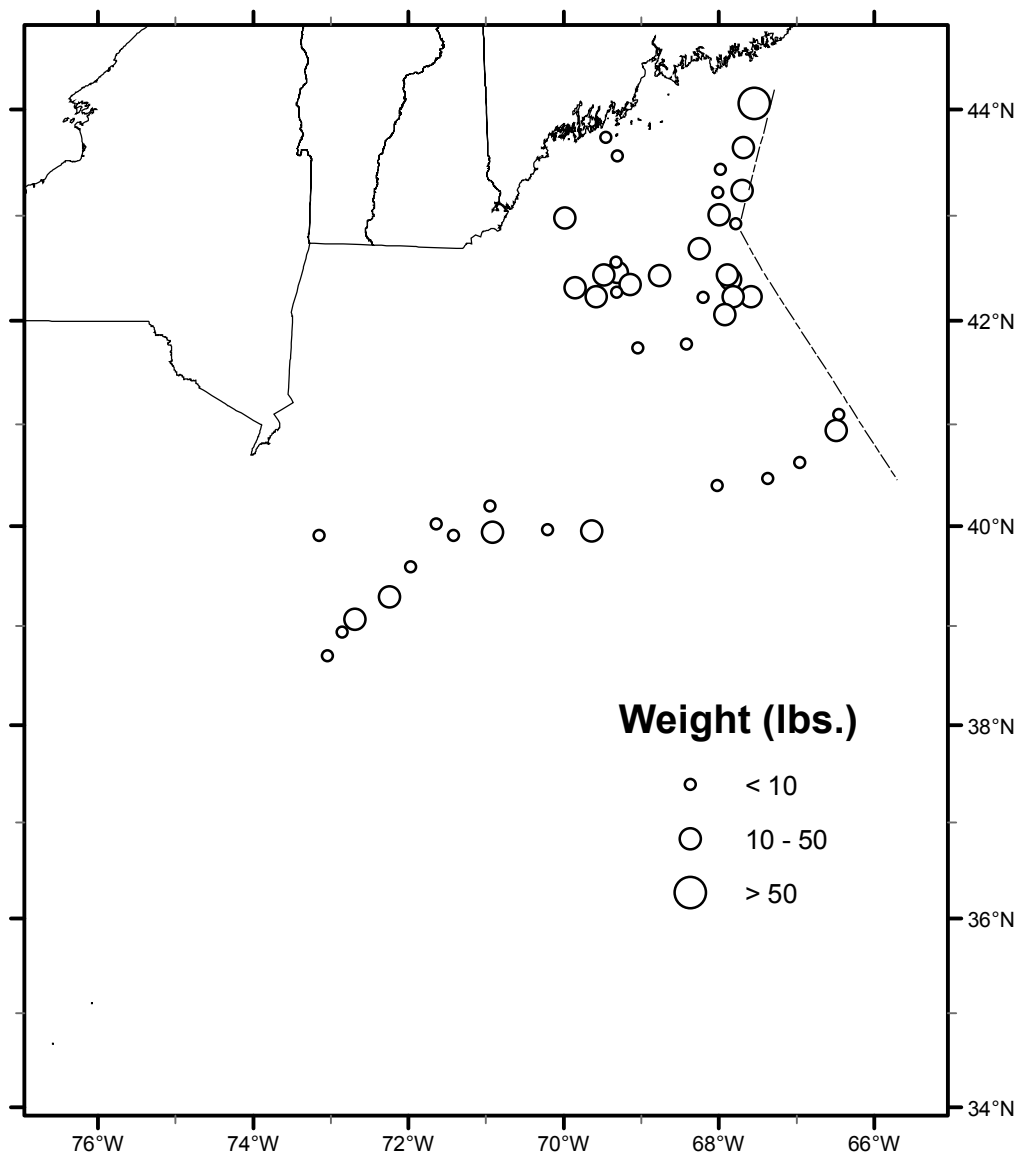
HADDOCK
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



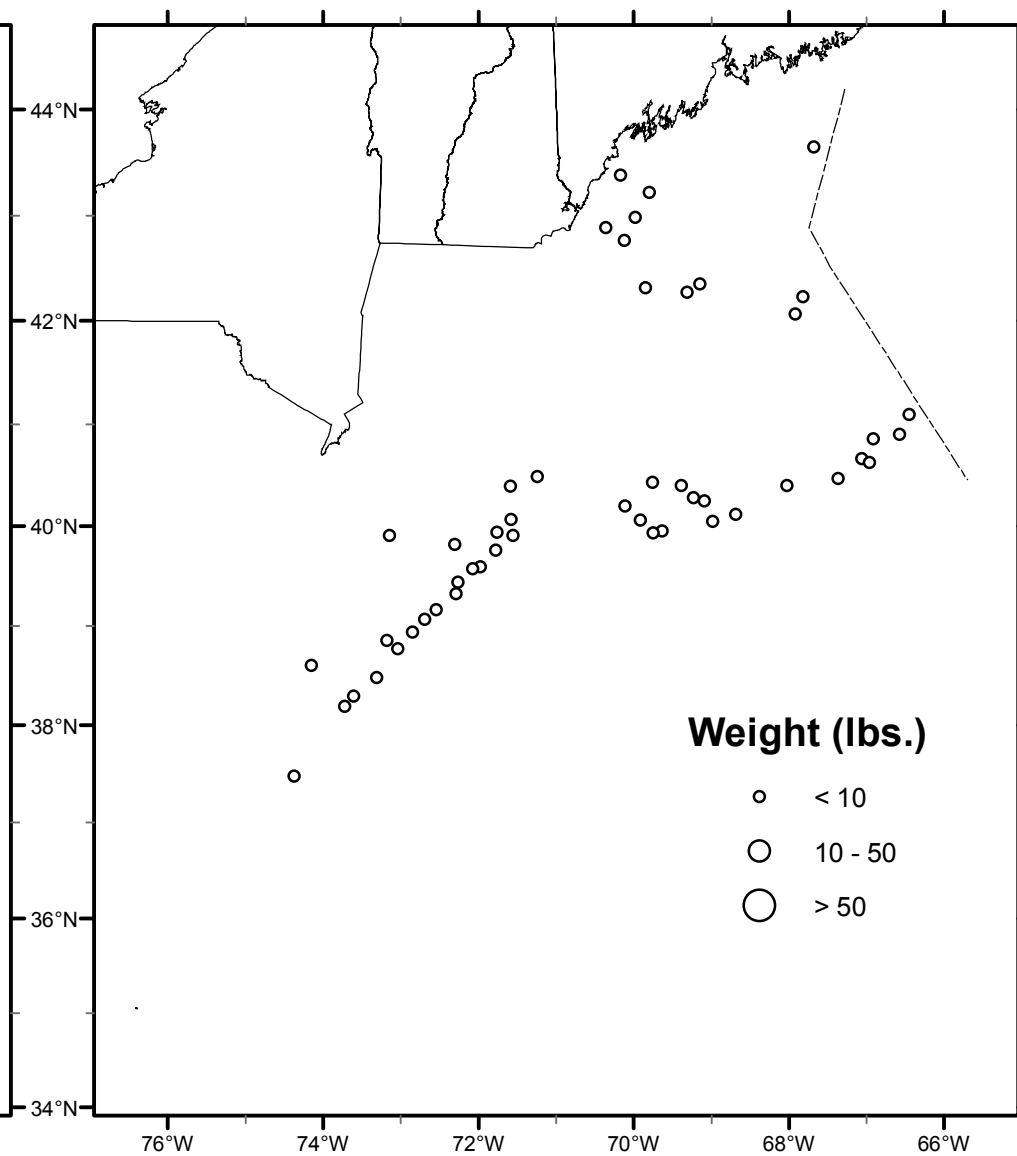
POLLOCK
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



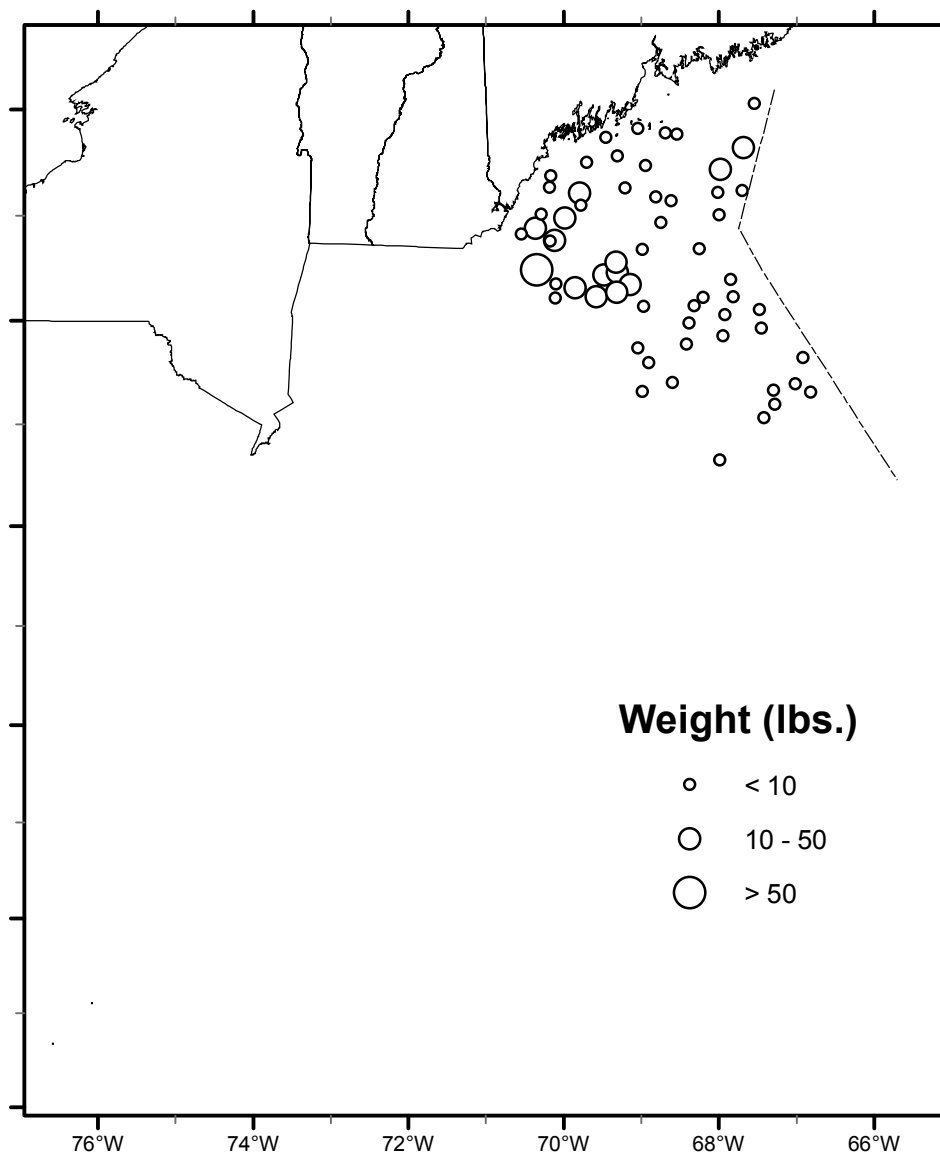
WHITE HAKE
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



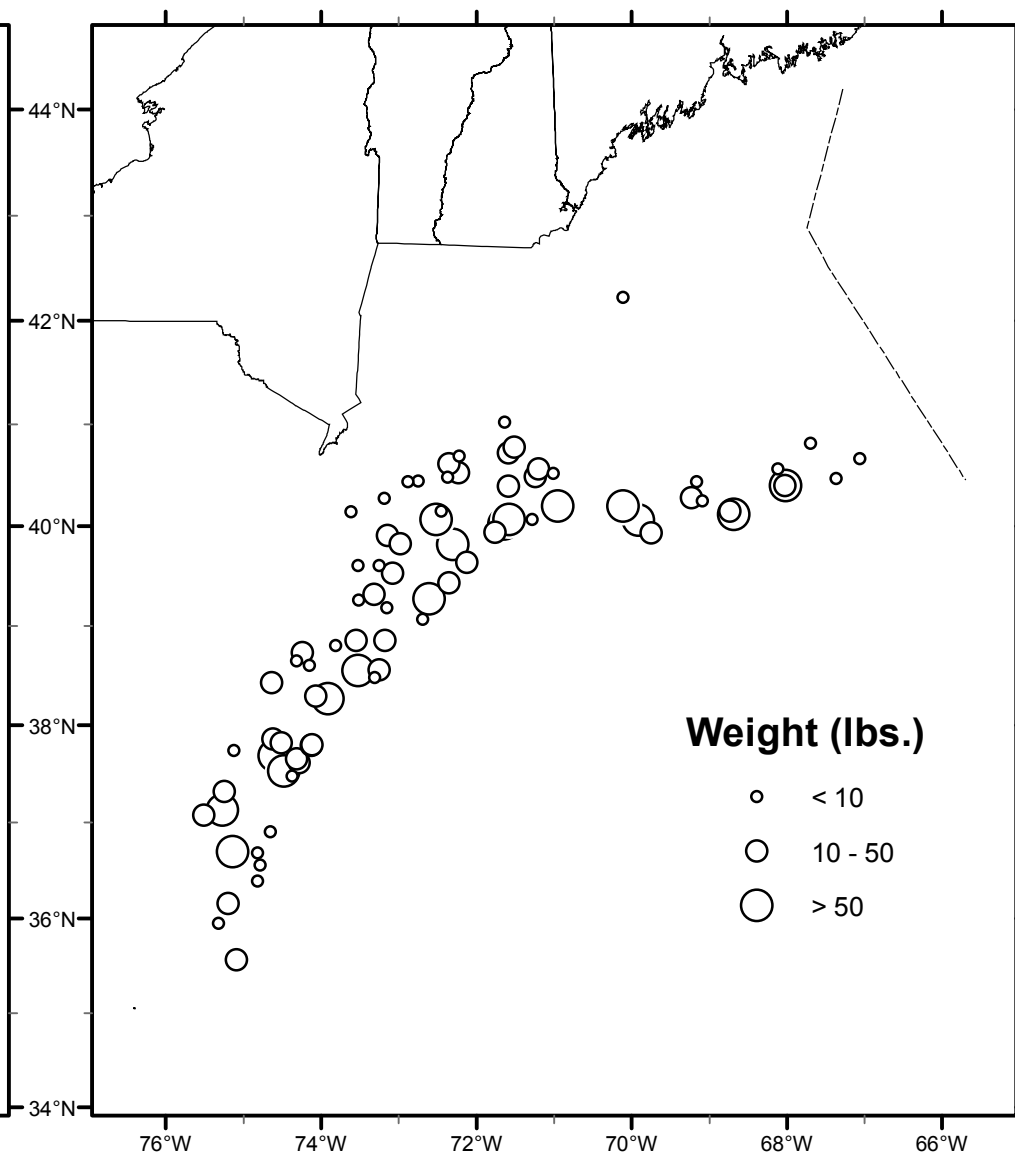
RED HAKE
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



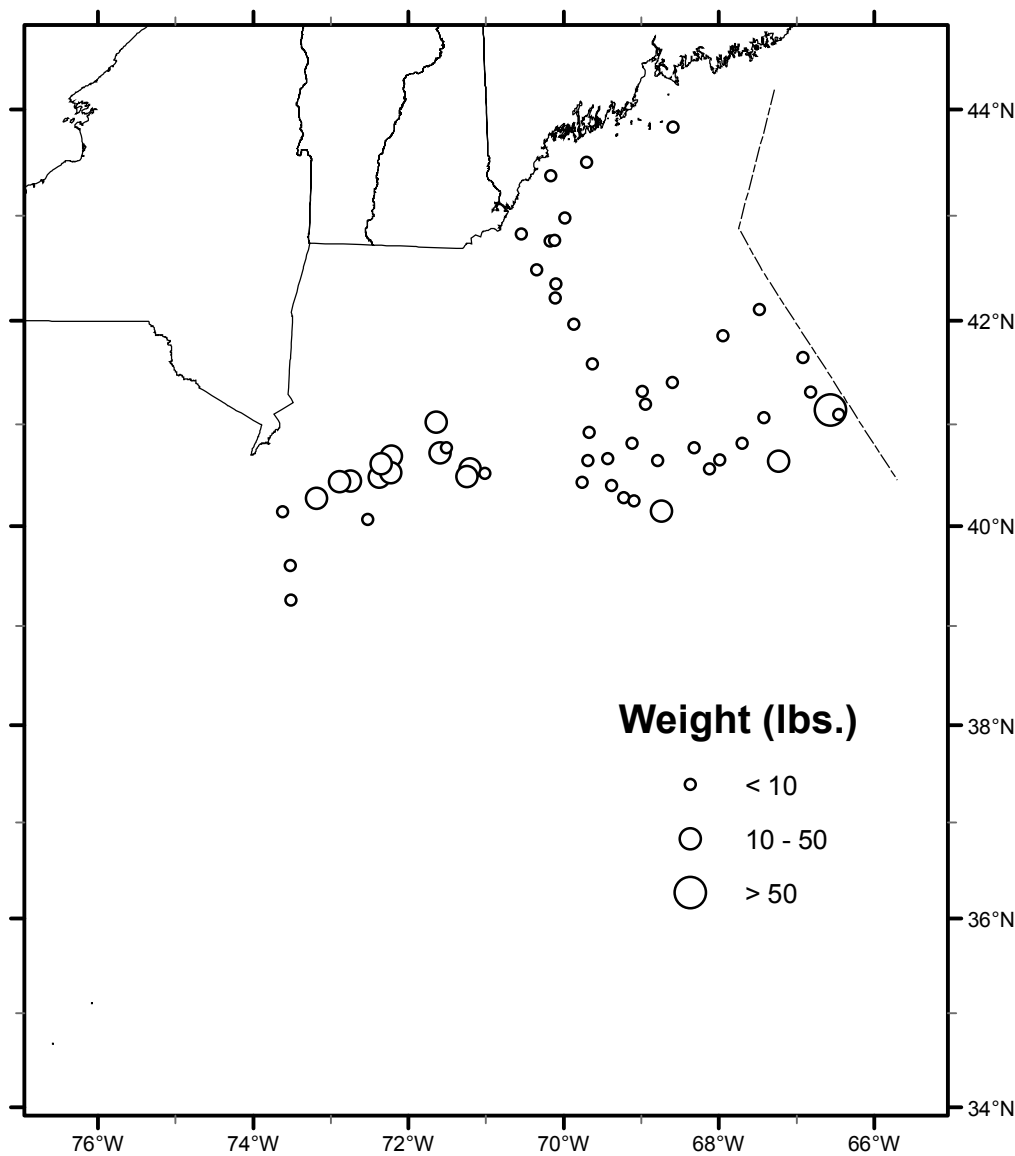
AMERICAN PLAICE
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



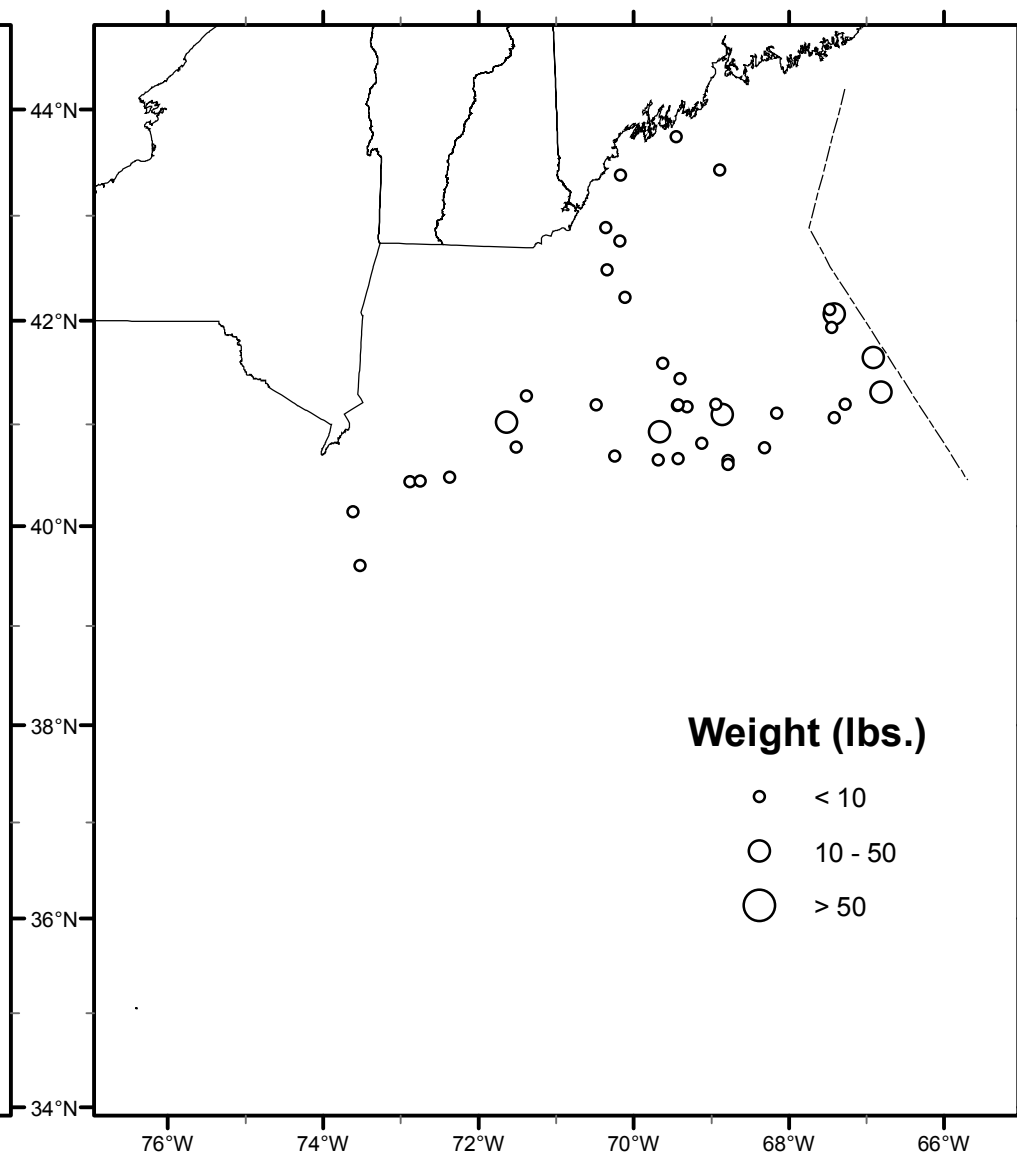
SUMMER FLOUNDER
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



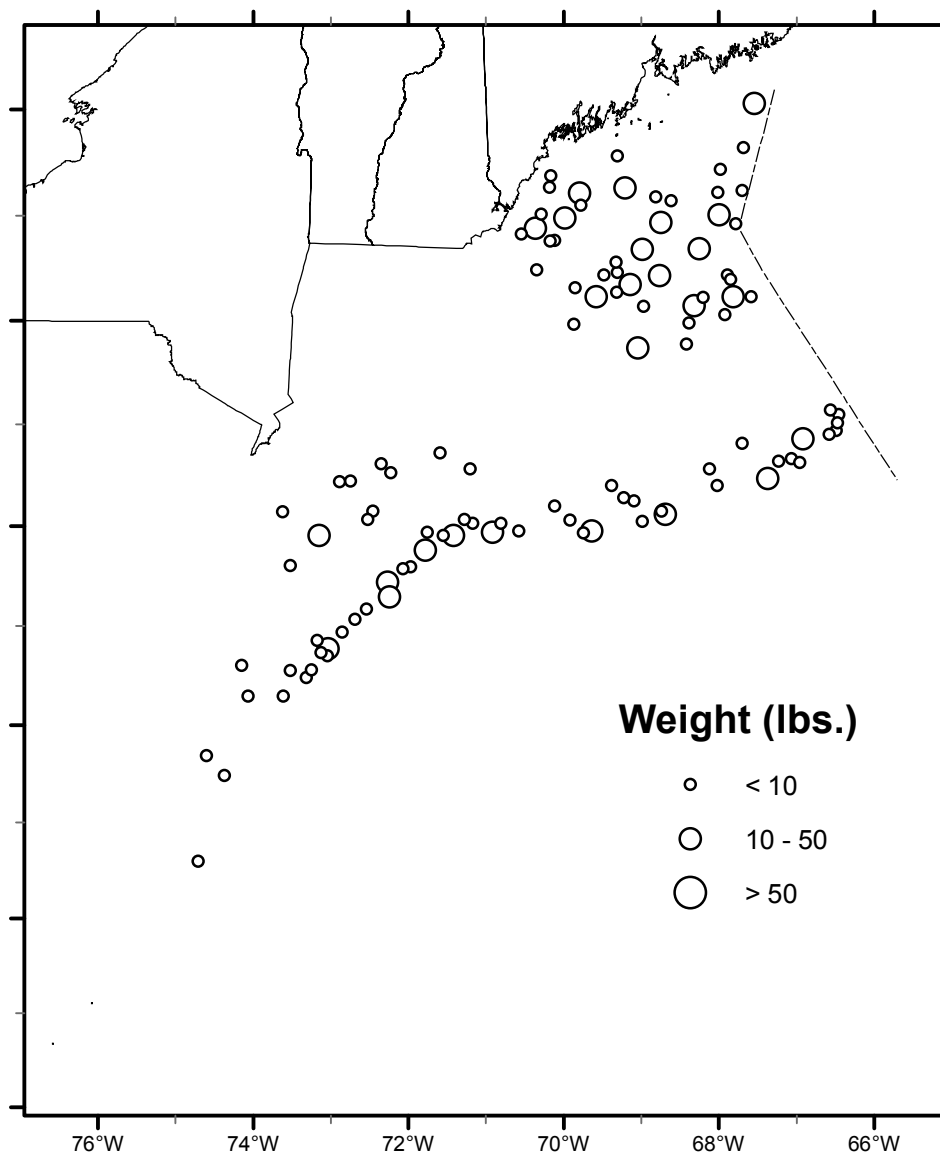
YELLOWTAIL FLOUNDER
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



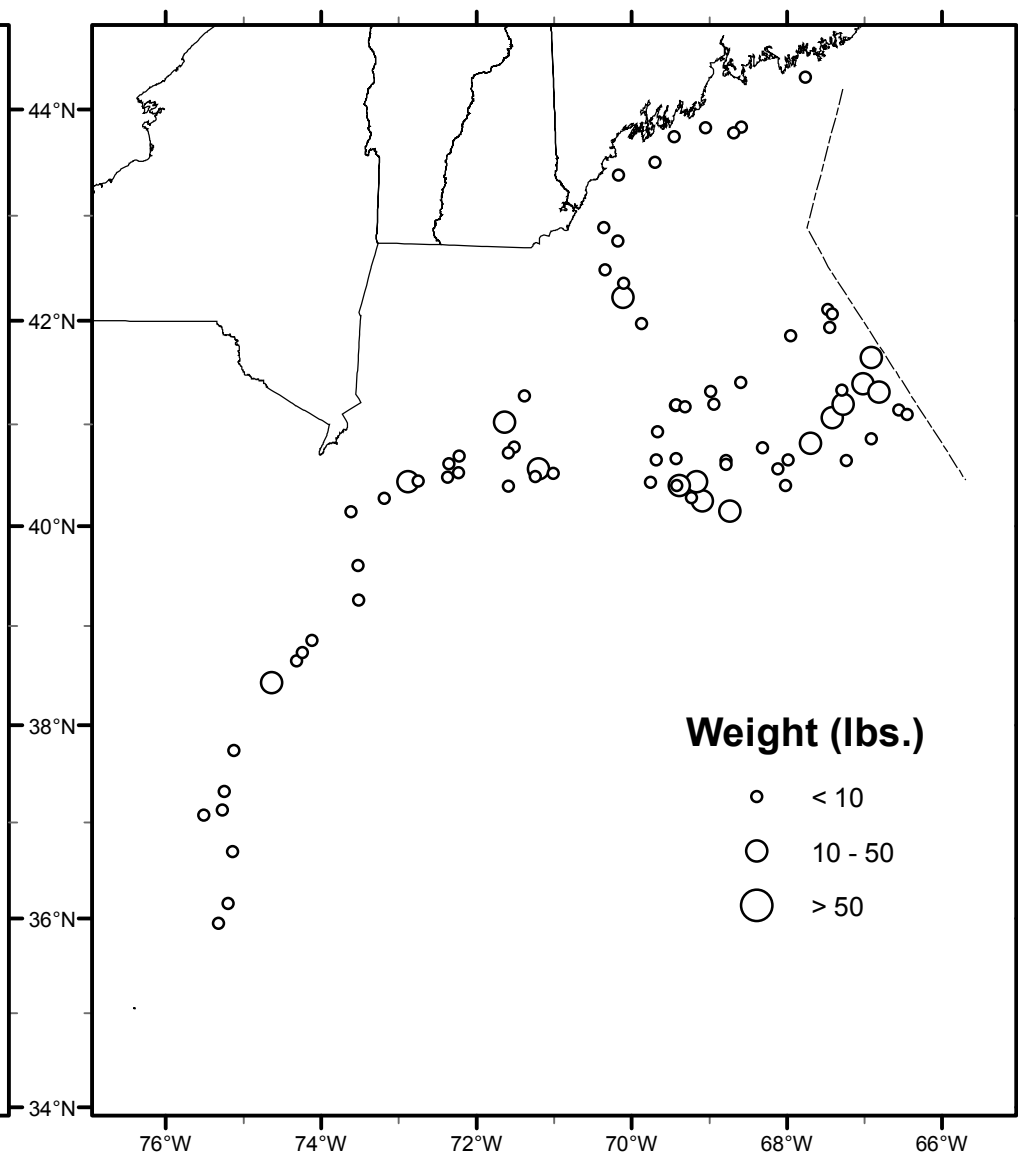
WINTER FLOUNDER
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



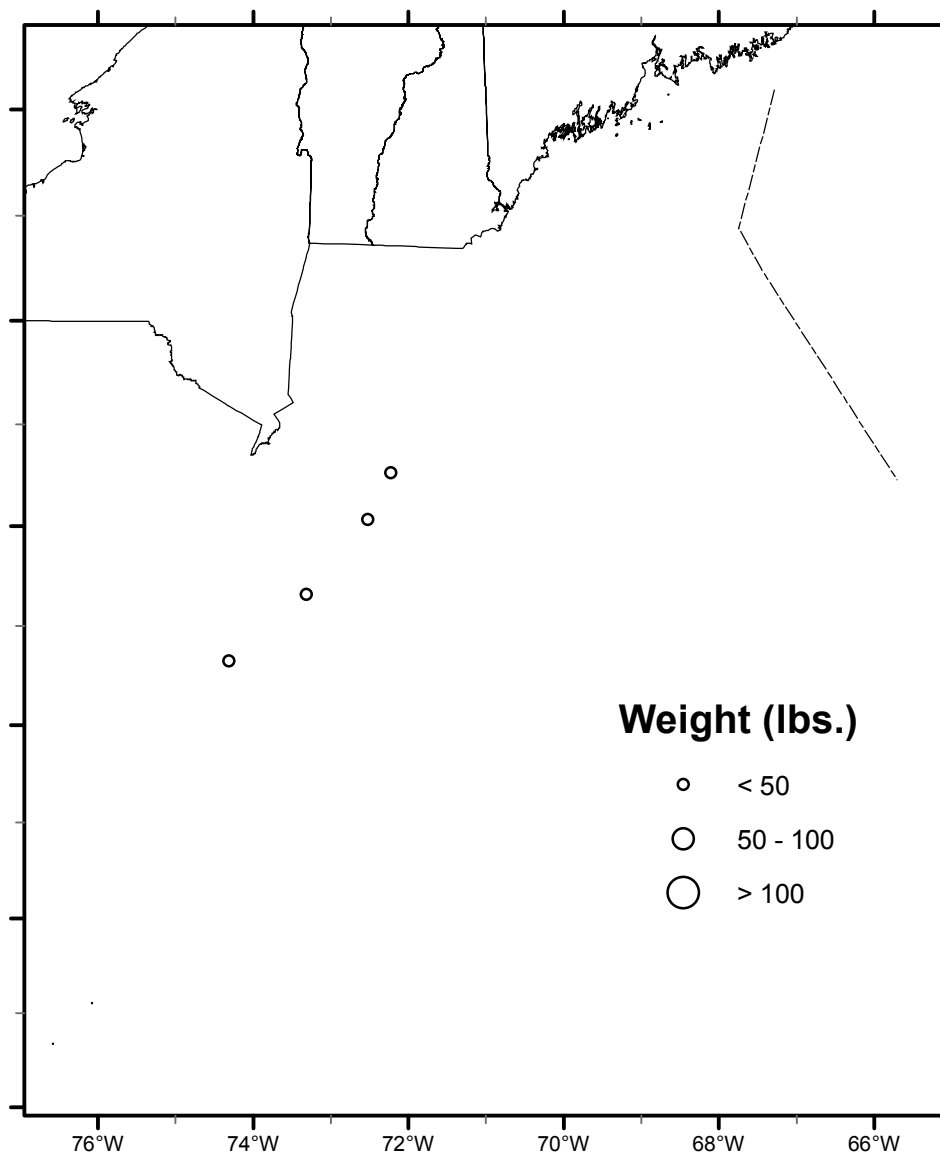
WITCH FLOUNDER
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



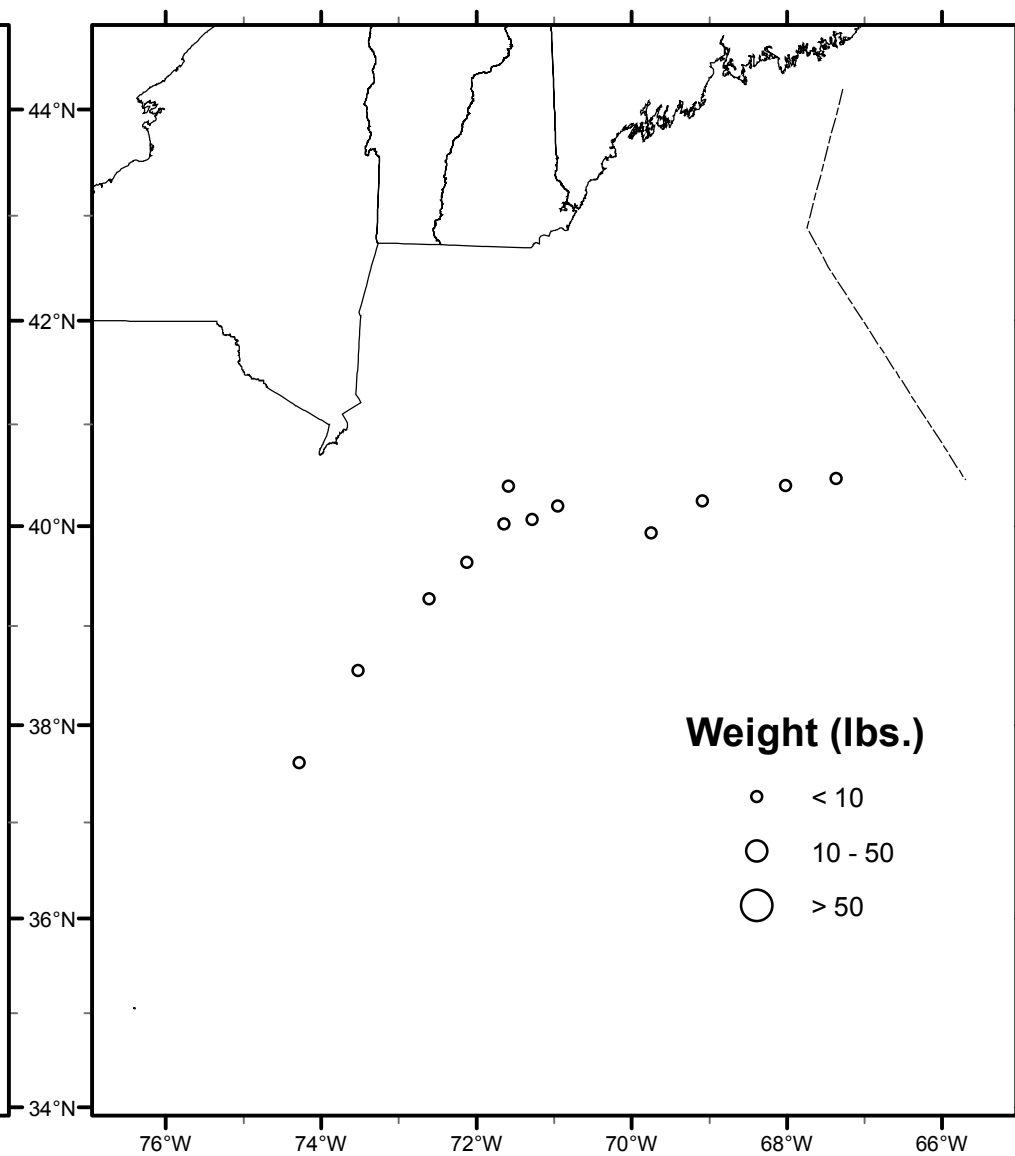
WINDOWPANE FLOUNDER
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



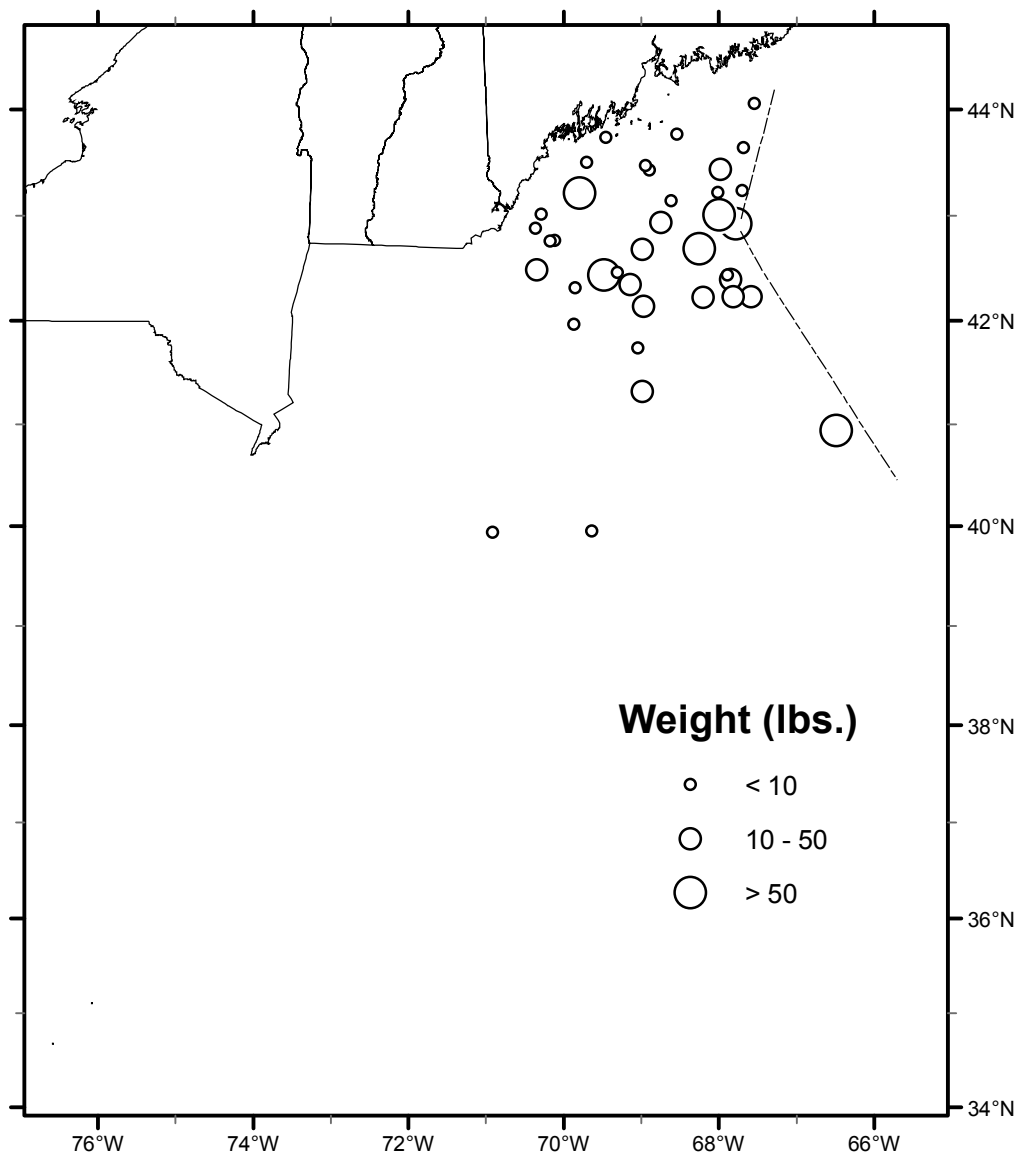
ATLANTIC MACKEREL
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



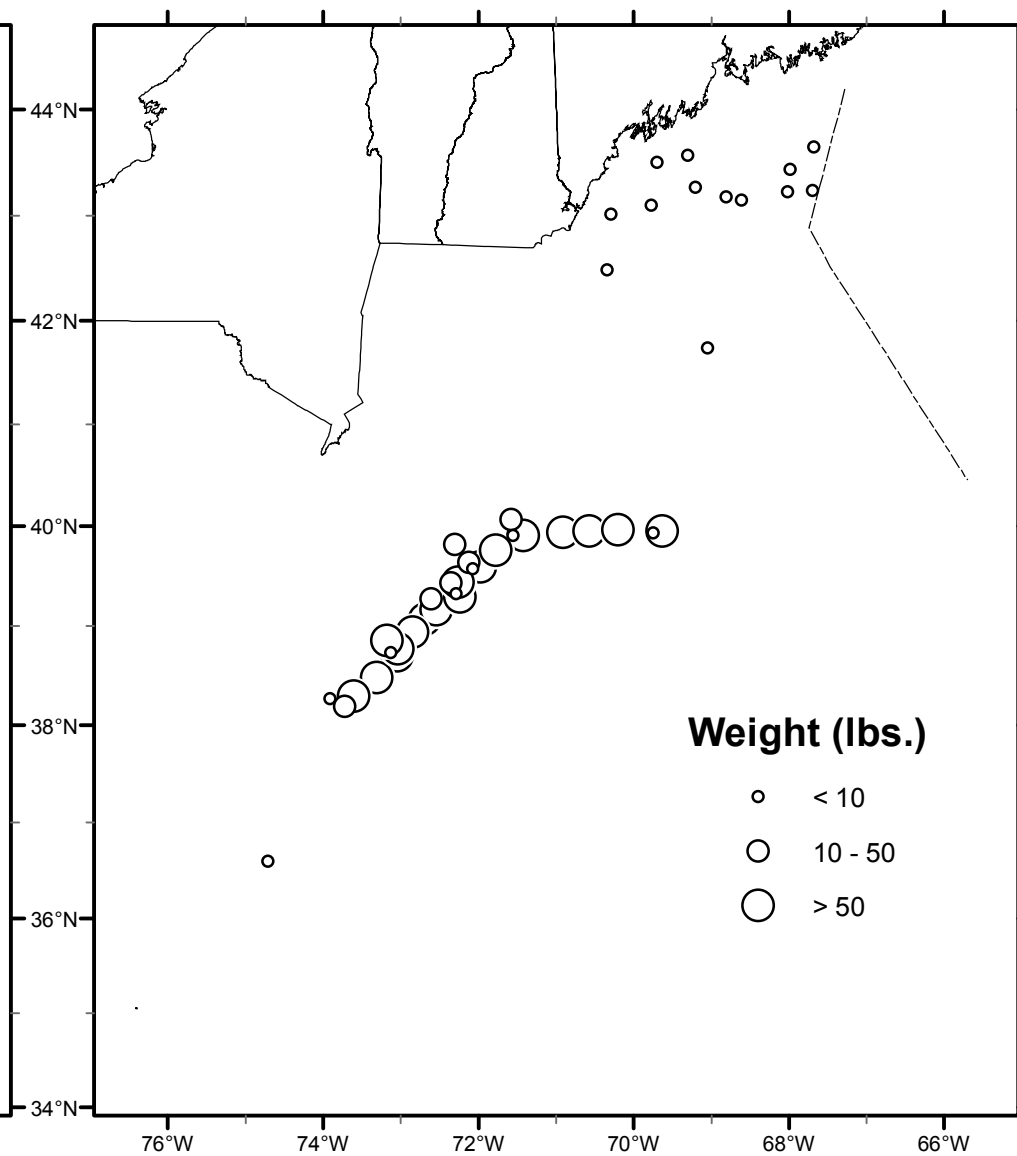
BUTTERFISH
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



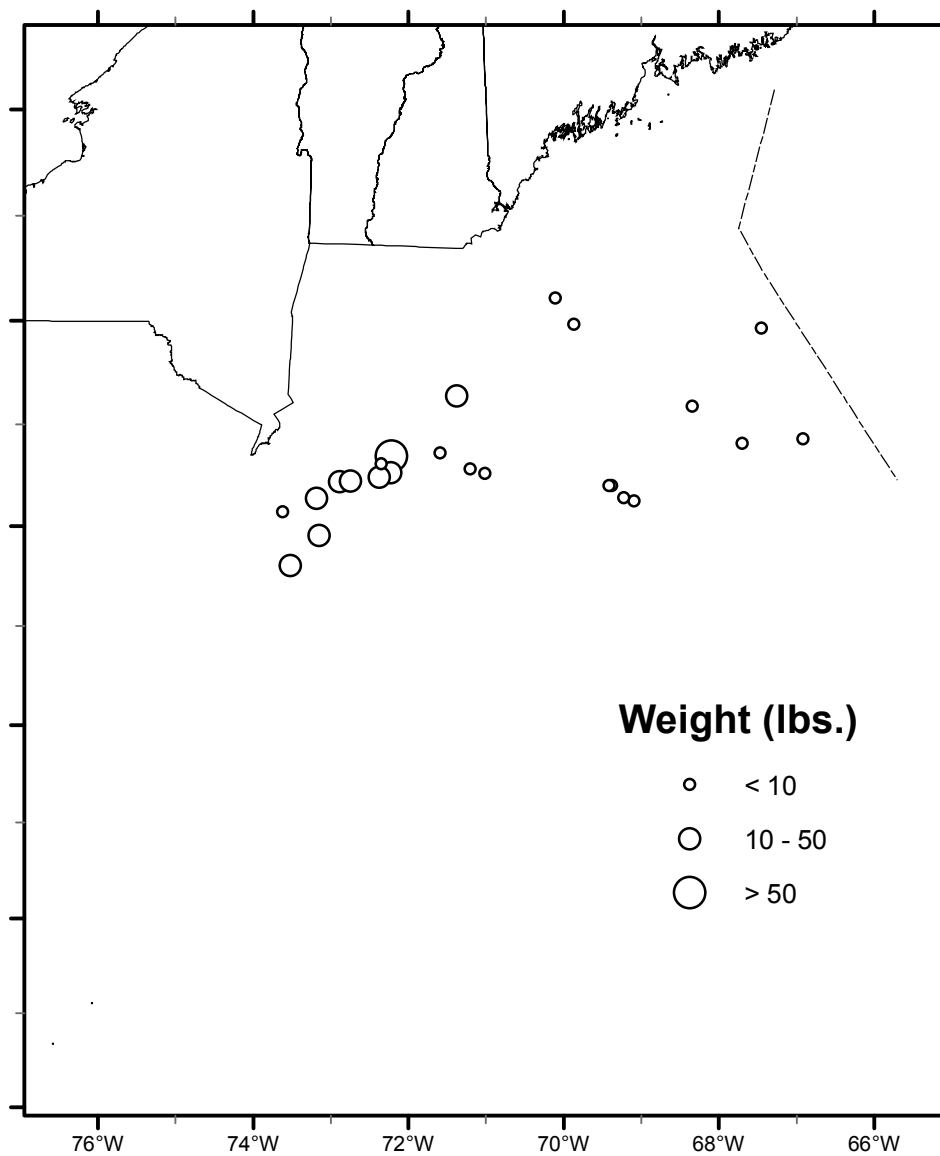
ACADIAN REDFISH
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



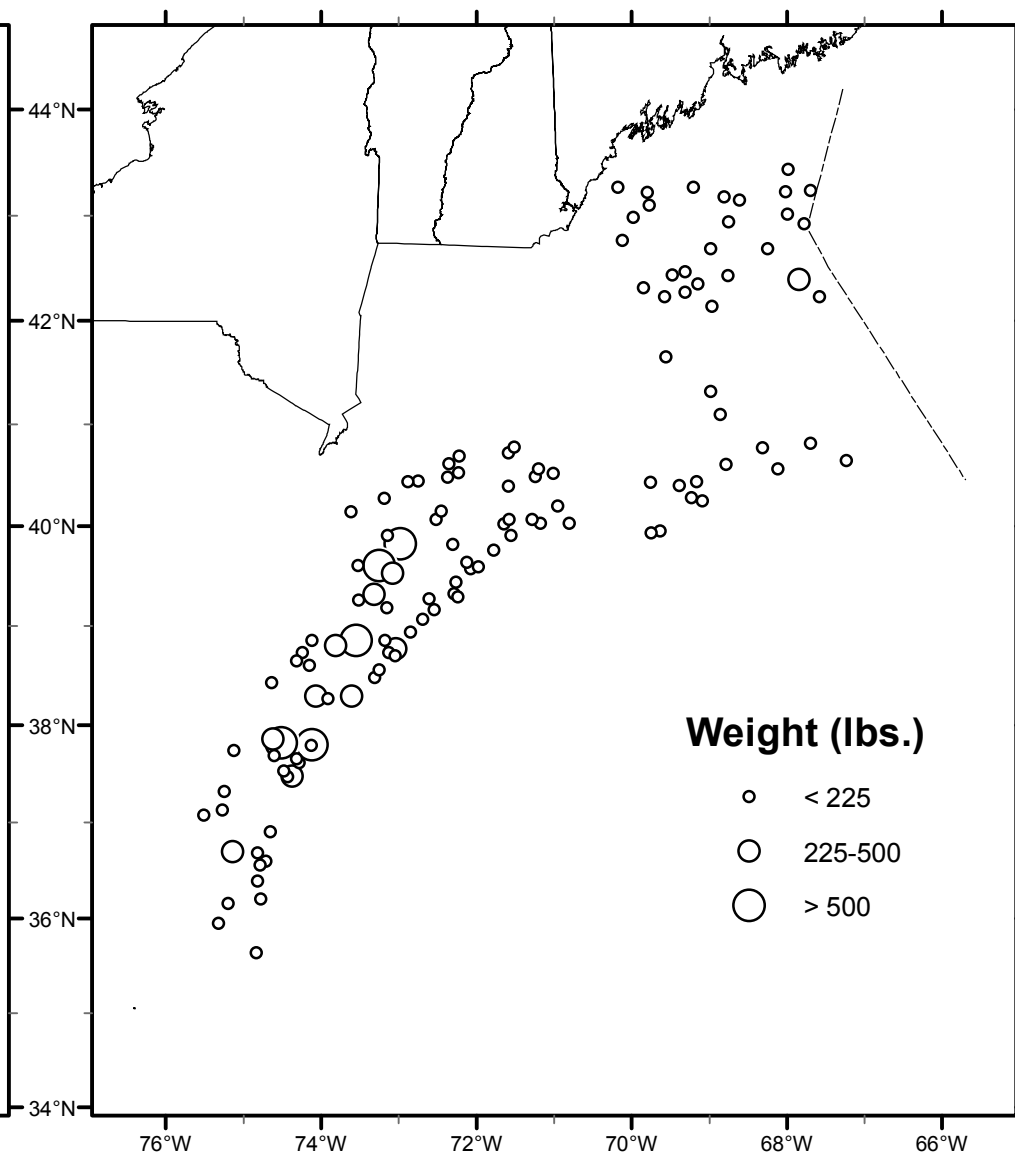
DEEP SEA REDCRAB
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



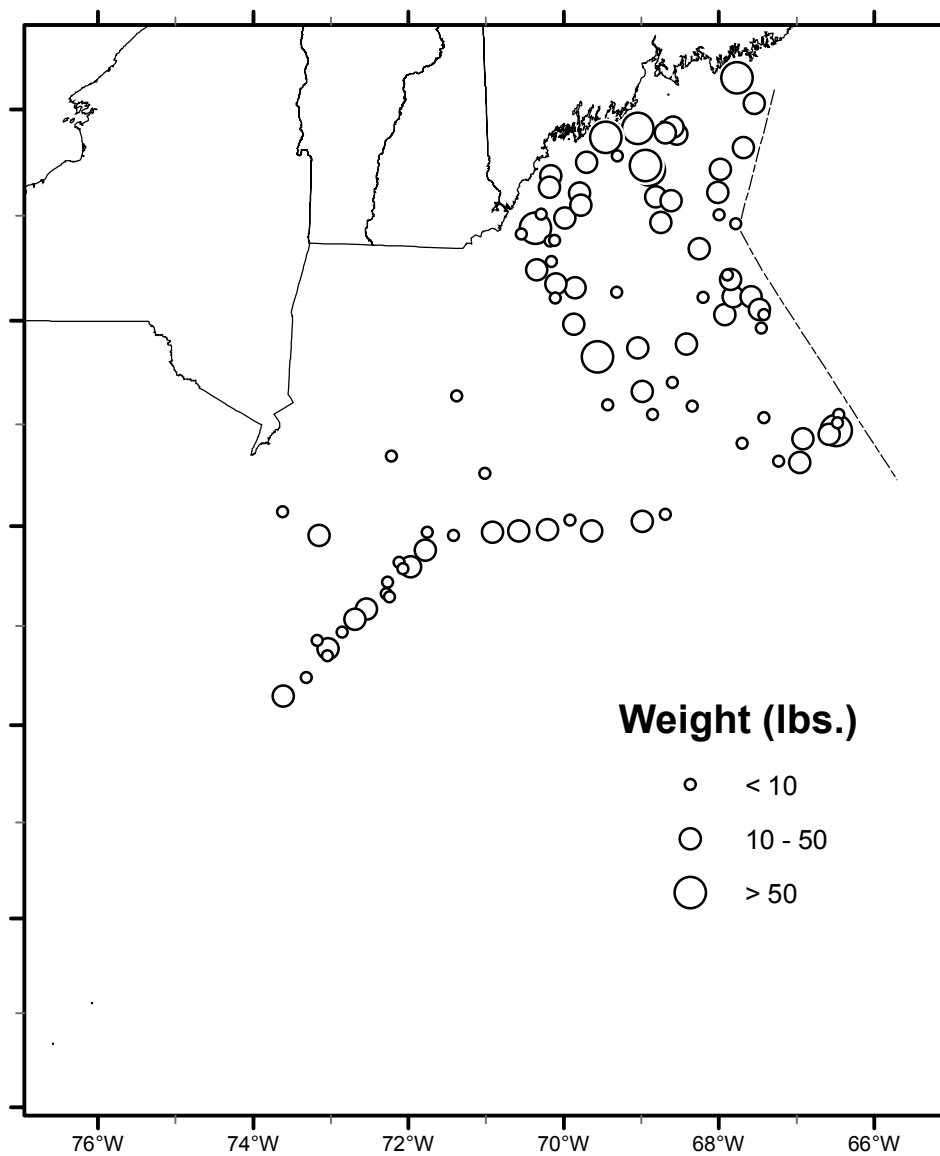
OCEAN POUT
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



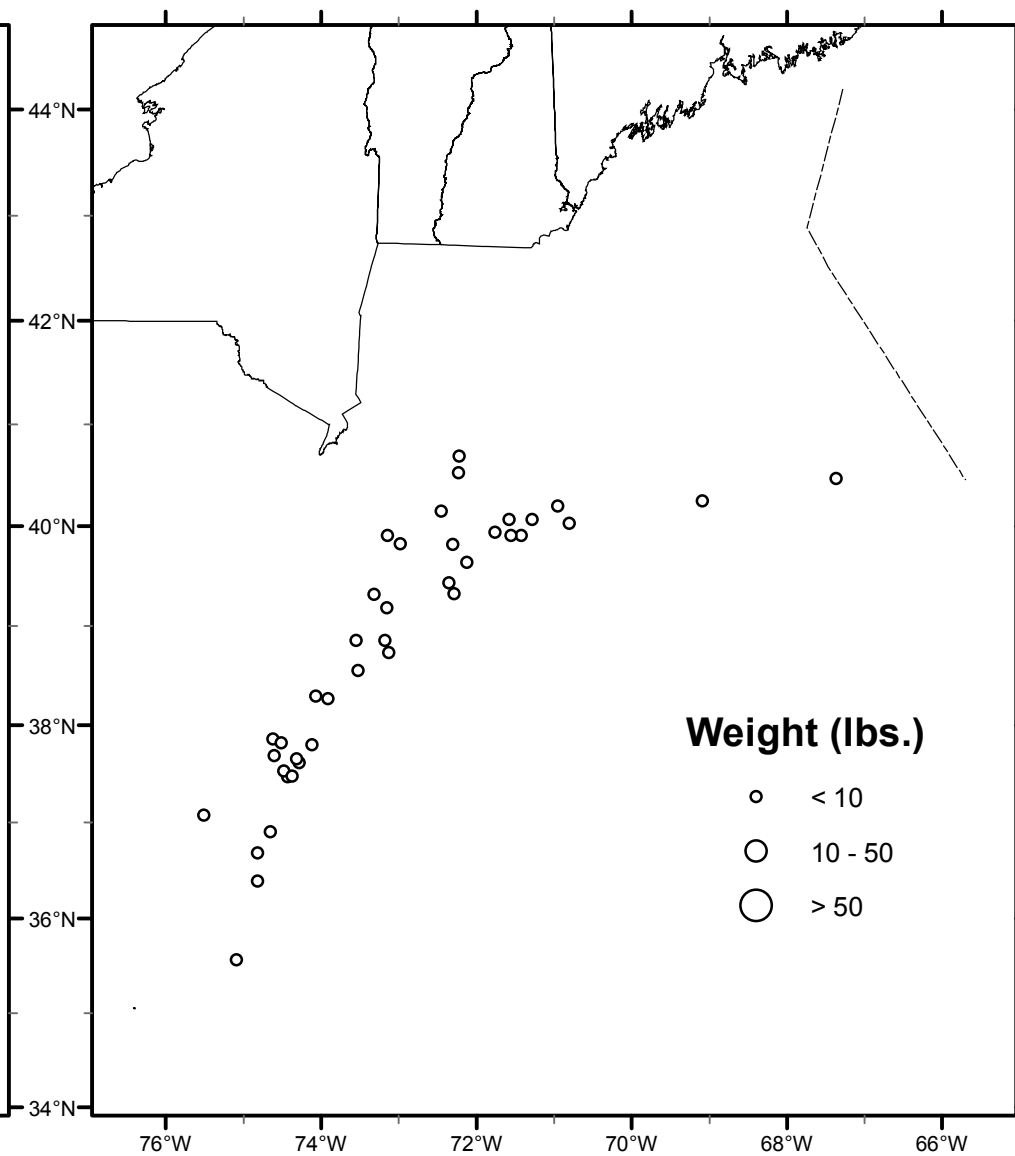
SPINY DOGFISH
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



AMERICAN LOBSTER
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



LOLIGO SQUID
NOAA Fisheries Service
Cooperative Monkfish Survey
9 February to 1 May 2009



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NOAA FISHERIES SERVICE
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