

FISHERMEN'S REPORT  
National Marine Fisheries Service  
Northeast Fisheries Science Center  
Winter Bottom Trawl Survey  
Preliminary Catch Summary  
Cape Hatteras - Georges Bank  
February 7 - 27, 1998

**Submitted to:** NOAA, NEFSC

For further information contact Tom Azarovitz or Linda  
Despres, Resource Surveys Branch, National Marine Fisheries  
Service, Northeast Fisheries Science Center, 166 Water Street,  
Woods Hole, MA 02543-1097, Telephone 508-495-2000.

**Date:** 1999

# Fishermen's Report

## Bottom Trawl Survey



Cape Hatteras - Georges Bank  
February 1 - 24, 1999

R/V Albatross IV

National Marine Fisheries Service  
Northeast Fisheries Science Center  
Woods Hole, MA 02543



# FISHERMEN'S REPORT

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Winter Bottom Trawl Survey  
Preliminary Catch Summary  
Cape Hatteras - Georges Bank  
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The enclosed listed and plotted data are of commercially and recreationally important species caught during the Northeast Fisheries Science Center's 1998 winter bottom trawl survey aboard the *R/V ALBATROSS IV* out of Woods Hole, Ma. Tows were made with a standardized #36 Yankee flat trawl equipped with a rubber disc covered chain sweep, 30 fathom ground cables, 5 fathom legs and 1000 pound polyvalent doors. The codend 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 to commercial tows. Also, vessel operations are on a 24-hour basis and catches have not been adjusted for day/night catchability differences. Nevertheless, these data can provide useful information about distribution and relative abundance of fish from Cape Hatteras to Georges Bank.

In an effort to make this report timely, the data are summarized from unaudited catch files. Therefore, data records in this report are provisional and subject to change.

For further information contact Tom Azarovitz or Linda Despres, Resource Surveys Branch, National Marine Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543-1097, Telephone 508-495-2000.

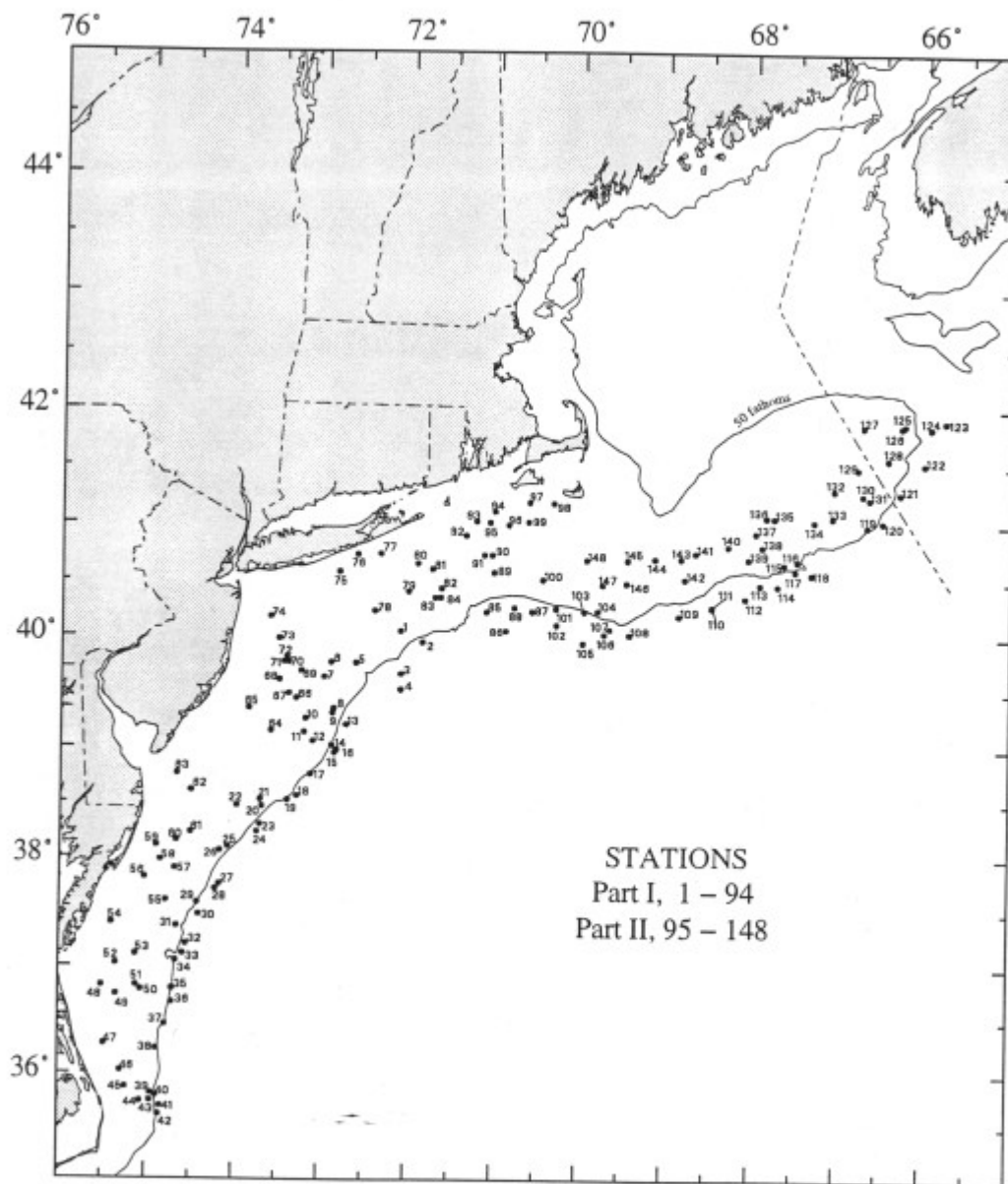


Figure 1. Trawl hauls made from the R/V Albatross IV, during National Marine Fisheries Service, Northeast Fisheries Science Center winter bottom trawl survey (99 - 02), February 1 - 24, 1999.

NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY  
1999 STATION INFORMATION

| Station | Date   | Time | Lat    | Lon    | Loran TD's |          | Course | Bottom Depth (FM) | Tem (F) |
|---------|--------|------|--------|--------|------------|----------|--------|-------------------|---------|
| 001     | Feb-02 | 0318 | 4002.9 | 7205.8 | X26067.6   | Y43381.8 | 120    | 41.6              | 50.     |
| 002     | Feb-02 | 0557 | 3956.8 | 7150.7 | X25957.3   | Y43320.1 | 081    | 59.1              | 58.     |
| 003     | Feb-02 | 0917 | 3939.7 | 7205.4 | X26066.9   | Y43180.9 | 224    | 79.0              | 58.     |
| 004     | Feb-02 | 1147 | 3931.3 | 7205.4 | X26069.3   | Y43107.0 | 235    | 178.5             | 46.     |
| 005     | Feb-02 | 1702 | 3945.6 | 7236.5 | X26287.7   | Y43246.6 | 204    | 34.7              | 48.     |
| 006     | Feb-02 | 2043 | 3946.0 | 7253.7 | X26411.9   | Y43257.6 | 243    | 40.7              | 47.     |
| 007     | Feb-02 | 2258 | 3938.1 | 7258.5 | X26438.6   | Y43184.6 | 158    | 35.0              | 47.     |
| 008     | Feb-03 | 0157 | 3921.3 | 7251.6 | X26378.9   | Y43023.5 | 168    | 39.4              | 48.     |
| 009     | Feb-03 | 0319 | 3918.8 | 7252.4 | X26382.6   | Y42999.8 | 322    | 38.5              | 53.     |
| 010     | Feb-03 | 0702 | 3915.8 | 7311.2 | X26505.2   | Y42971.5 | 191    | 35.3              | 53.     |
| 011     | Feb-03 | 0913 | 3908.4 | 7312.2 | X26504.7   | Y42898.9 | 127    | 36.1              | 48.     |
| 012     | Feb-03 | 1109 | 3903.5 | 7306.0 | X26461.2   | Y42851.7 | 040    | 38.5              | 50.     |
| 013     | Feb-03 | 1415 | 3912.4 | 7242.8 | X26316.6   | Y42939.8 | 001    | 65.3              | 57.     |
| 014     | Feb-03 | 1713 | 3901.3 | 7252.8 | X26376.2   | Y42832.8 | 164    | 56.9              | 54.     |
| 015     | Feb-03 | 1846 | 3857.1 | 7250.9 | X26362.9   | Y42793.3 | 033    | 108.3             | 56.     |
| 016     | Feb-03 | 2001 | 3858.8 | 7249.4 | X26354.1   | Y42809.7 | 210    | 111.3             | 56.     |
| 017     | Feb-03 | 2242 | 3845.5 | 7307.4 | X26458.4   | Y42675.3 | 210    | 62.9              | 57.     |
| 018     | Feb-04 | 0045 | 3833.8 | 7316.9 | X26507.1   | Y42555.5 | 220    | 68.4              | 58.     |
| 019     | Feb-04 | 0209 | 3831.5 | 7323.6 | X26544.2   | Y42528.0 | 282    | 57.7              | 58.     |
| 020     | Feb-04 | 0420 | 3828.1 | 7341.5 | X26644.3   | Y42480.6 | 210    | 37.7              | 52.     |
| 021     | Feb-04 | 0559 | 3831.7 | 7342.7 | X26654.7   | Y42517.1 | 238    | 34.7              | 50.     |
| 022     | Feb-04 | 0758 | 3828.4 | 7359.0 | X26744.1   | Y42470.9 | 258    | 29.0              | 50.     |
| 023     | Feb-04 | 1053 | 3818.2 | 7343.0 | X26642.4   | Y42378.6 | 183    | 62.3              | 57.     |
| 024     | Feb-04 | 1216 | 3814.1 | 7344.9 | X26649.0   | Y42335.2 | 221    | 62.3              | 59.     |
| 025     | Feb-04 | 1449 | 3806.1 | 7405.1 | X26750.0   | Y42231.6 | 248    | 38.3              | 54.     |
| 026     | Feb-04 | 1713 | 3803.9 | 7410.5 | X26775.5   | Y42201.9 | 175    | 38.8              | 53.     |
| 027     | Feb-04 | 2044 | 3745.4 | 7410.6 | X26754.2   | Y42007.7 | 048    | 104.7             | 52.     |
| 028     | Feb-04 | 2241 | 3742.6 | 7413.5 | X26765.3   | Y41973.9 | 210    | 73.3              | 57.     |
| 029     | Feb-05 | 0103 | 3735.1 | 7425.8 | X26817.0   | Y41876.7 | 172    | 46.2              | 54.     |
| 030     | Feb-05 | 0233 | 3728.5 | 7424.6 | X26803.6   | Y41809.4 | 225    | 60.7              | 57.     |
| 031     | Feb-05 | 0522 | 3722.2 | 7439.6 | X26866.6   | Y41716.7 | 265    | 32.8              | 54.     |
| 032     | Feb-05 | 0846 | 3712.4 | 7433.1 | X26824.6   | Y41625.0 |        | 71.1              | 57.     |
| 033     | Feb-05 | 1008 | 3706.9 | 7435.2 | X26827.8   | Y41563.9 | 185    | 62.6              | 57.     |
| 034     | Feb-05 | 1349 | 3703.6 | 7440.0 | X26845.7   | Y41519.4 | 155    | 122.8             | 52.     |
| 035     | Feb-05 | 1623 | 3647.5 | 7442.3 | X26837.2   | Y41346.7 | 178    | 48.1              | 54.     |
| 036     | Feb-05 | 1848 | 3639.8 | 7442.5 | X26829.6   | Y41267.2 | 194    | 72.7              | 54.     |
| 037     | Feb-05 | 2043 | 3627.5 | 7447.0 | X26835.5   | Y41130.6 | 200    | 50.0              | 54.     |
| 038     | Feb-05 | 2238 | 3613.8 | 7400.5 | X26632.6   | Y41119.5 | 185    | 41.6              | 51.     |
| 039     | Feb-06 | 0138 | 3548.5 | 7456.1 | X26833.1   | Y40719.1 | 141    | 36.9              | 51.     |
| 040     | Feb-06 | 0254 | 3547.3 | 7452.7 | X26818.7   | Y40718.9 | 153    | 52.8              | 53.     |
| 041     | Feb-06 | 0457 | 3541.3 | 7449.8 | X26802.6   | Y40672.2 | 150    | 146.3             | 55.     |
| 042     | Feb-06 | 0642 | 3536.5 | 7450.9 | X26802.5   | Y40624.3 | 001    | 41.3              | 53.     |
| 043     | Feb-06 | 0820 | 3544.5 | 7456.7 | X26831.3   | Y40679.4 | 001    | 31.4              | 51.     |
| 044     | Feb-06 | 0958 | 3544.0 | 7503.3 | X26856.2   | Y40653.8 | 000    | 24.3              | 50.     |
| 045     | Feb-06 | 1153 | 3552.0 | 7513.6 | X26903.0   | Y40699.8 | 343    | 15.9              | 49.     |
| 046     | Feb-06 | 1330 | 3601.6 | 7517.0 | X26926.7   | Y40785.5 | 332    | 16.4              | 50.     |
| 047     | Feb-06 | 1553 | 3616.5 | 7528.4 | X26989.4   | Y40909.0 | 351    | 15.9              | 49.     |
| 048     | Feb-06 | 1940 | 3649.1 | 7530.4 | X27043.7   | Y41258.3 | 101    | 11.5              | 48.     |

NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY  
1999 STATION INFORMATION

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|---------|--------|------|--------|--------|------------|----------|--------|-------------------|----------|
| 049     | Feb-06 | 2118 | 3644.2 | 7520.4 | X26995.0   | Y41225.8 | 015    | 13.1              | 48.0     |
| 050     | Feb-06 | 2337 | 3646.8 | 7503.5 | X26927.3   | Y41292.3 | 307    | 17.5              | 49.0     |
| 051     | Feb-07 | 0059 | 3649.3 | 7506.8 | X26944.7   | Y41311.8 | 318    | 17.0              | 48.0     |
| 052     | Feb-07 | 0435 | 3701.4 | 7520.8 | X27022.4   | Y41413.7 | 067    | 17.2              | 47.0     |
| 053     | Feb-07 | 0626 | 3706.4 | 7507.3 | X26970.8   | Y41496.2 | 319    | 18.6              | 47.0     |
| 054     | Feb-07 | 0913 | 3723.8 | 7524.0 | X27073.4   | Y41659.0 | 065    | 14.8              | 45.0     |
| 055     | Feb-07 | 1306 | 3736.2 | 7447.2 | X26922.4   | Y41855.9 | 321    | 23.5              | 47.0     |
| 056     | Feb-07 | 1530 | 3748.9 | 7501.8 | X27013.8   | Y41974.3 | 069    | 14.2              | 45.0     |
| 057     | Feb-07 | 1755 | 3753.9 | 7441.3 | X26920.3   | Y42057.2 | 304    | 20.5              | 47.0     |
| 058     | Feb-07 | 1928 | 3758.6 | 7451.2 | X26978.0   | Y42095.9 | 322    | 14.8              | 45.0     |
| 059     | Feb-07 | 2057 | 3806.6 | 7454.0 | X27006.8   | Y42181.3 | 052    | 13.1              | 44.0     |
| 060     | Feb-07 | 2200 | 3809.3 | 7440.5 | X26941.5   | Y42226.5 | 035    | 20.2              | 46.0     |
| 061     | Feb-08 | 0028 | 3813.9 | 7430.8 | X26898.2   | Y42286.9 | 007    | 22.7              | 46.0     |
| 062     | Feb-08 | 0320 | 3836.6 | 7430.6 | X26936.3   | Y42534.4 | 312    | 17.5              | 45.0     |
| 063     | Feb-08 | 0539 | 3845.8 | 7440.4 | X27010.3   | Y42629.7 | 074    | 14.5              | 42.0     |
| 064     | Feb-08 | 1408 | 3909.2 | 7335.4 | X26655.2   | Y42903.6 | 307    | 21.6              | 46.0     |
| 065     | Feb-08 | 1659 | 3921.4 | 7351.2 | X26776.7   | Y43027.9 | 078    | 19.1              | 43.0     |
| 066     | Feb-08 | 2035 | 3926.6 | 7318.1 | X26562.4   | Y43078.4 | 270    | 19.1              | 45.0     |
| 067     | Feb-08 | 2150 | 3929.2 | 7323.3 | X26601.1   | Y43104.7 | 312    | 19.7              | 45.0     |
| 068     | Feb-08 | 2327 | 3936.6 | 7330.0 | X26658.1   | Y43180.1 | 100    | 20.5              | 44.0     |
| 069     | Feb-09 | 0143 | 3941.5 | 7314.7 | X26557.7   | Y43223.5 | 352    | 22.7              | 45.0     |
| 070     | Feb-09 | 0326 | 3946.3 | 7323.4 | X26626.8   | Y43274.1 | 002    | 20.8              | 44.0     |
| 071     | Feb-09 | 0451 | 3946.2 | 7326.9 | X26652.0   | Y43274.6 | 344    | 18.6              | 44.0     |
| 072     | Feb-09 | 0608 | 3949.0 | 7324.9 | X26641.7   | Y43301.4 | 332    | 20.8              | 44.0     |
| 073     | Feb-09 | 0758 | 3958.9 | 7330.4 | X26699.6   | Y43401.8 | 000    | 23.2              | 44.0     |
| 074     | Feb-09 | 0954 | 4010.8 | 7336.5 | X26769.6   | Y43523.0 | 157    | 20.2              | 44.0     |
| 075     | Feb-09 | 1506 | 4034.7 | 7248.6 | X26435.9   | Y43699.2 | 045    | 19.1              | 44.0     |
| 076     | Feb-09 | 1706 | 4043.8 | 7236.2 | X26348.1   | Y43762.4 | 085    | 16.7              | 39.0     |
| 077     | Feb-09 | 1904 | 4044.0 | 7220.5 | X26216.0   | Y43744.7 | 171    | 21.6              | 42.0     |
| 078     | Feb-09 | 2355 | 4013.9 | 7224.1 | X26212.4   | Y43491.1 | 096    | 32.0              | 46.0     |
| 079     | Feb-10 | 0235 | 4024.2 | 7200.7 | X26033.1   | Y43557.5 | 042    | 35.5              | 46.0     |
| 080     | Feb-10 | 0453 | 4039.0 | 7154.4 | X25990.1   | Y43672.0 | 108    | 28.7              | 45.0     |
| 081     | Feb-10 | 0733 | 4036.0 | 7144.2 | X25902.9   | Y43637.1 | 150    | 35.5              | 50.0     |
| 082     | Feb-10 | 1008 | 4025.9 | 7137.8 | X25850.2   | Y43549.3 | 227    | 42.1              | 53.0     |
| 083     | Feb-10 | 1216 | 4020.8 | 7142.1 | X25885.1   | Y43512.6 | 140    | 42.9              | 53.0     |
| 084     | Feb-10 | 1438 | 4020.9 | 7138.3 | X25855.5   | Y43510.1 | 144    | 43.7              | 54.0     |
| 085     | Feb-10 | 1755 | 4013.3 | 7106.4 | X25624.9   | Y43423.9 | 145    | 65.1              | 56.0     |
| 086     | Feb-10 | 2023 | 4003.2 | 7052.6 | X25550.4   | Y43336.4 | 104    | 103.3             | 55.0     |
| 087     | Feb-10 | 2320 | 4013.7 | 7033.8 | X25409.9   | Y43403.2 | 268    | 62.9              | 59.0     |
| 088     | Feb-11 | 0139 | 4015.8 | 7046.5 | X25485.2   | Y43427.7 | 130    | 64.0              | 59.0     |
| 089     | Feb-11 | 0519 | 4034.5 | 7101.2 | X25557.6   | Y43580.1 | 004    | 38.3              | 45.0     |
| 090     | Feb-11 | 0703 | 4043.5 | 7102.8 | X25561.8   | Y43649.4 | 265    | 31.4              | 45.0     |
| 091     | Feb-11 | 0936 | 4043.5 | 7108.2 | X25606.4   | Y43655.3 | 339    | 32.3              | 45.0     |
| 092     | Feb-11 | 1157 | 4053.8 | 7121.0 | X25715.7   | Y43746.7 | 306    | 30.3              | 48.0     |
| 093     | Feb-11 | 1358 | 4101.4 | 7113.9 | X25659.7   | Y43793.4 | 090    | 25.7              | 46.0     |
| 094     | Feb-11 | 1548 | 4106.5 | 7101.0 | X25550.4   | Y43813.4 | 010    | 20.0              | 43.0     |
| 095     | Feb-16 | 1800 | 4100.8 | 7104.4 | X25575.6   | Y43776.9 | 139    | 26.0              | 46.0     |
| 096     | Feb-16 | 2107 | 4059.3 | 7051.2 | X25459.6   | Y43749.6 | 046    | 27.6              | 45.0     |

NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY  
1999 STATION INFORMATION

| Station | Date   | Time | Lat    | Lon    | Loran TD's |          | Course | Bottom Depth (FM) | Temp (F) |
|---------|--------|------|--------|--------|------------|----------|--------|-------------------|----------|
| 97      | Feb-17 | 0110 | 4111.3 | 7036.2 | X25333.9   | Y43814.2 | 067    | 17.8              | 39.5     |
| 98      | Feb-17 | 0309 | 4111.0 | 7018.8 | X25178.2   | Y43790.1 | 179    | 16.7              | 38.7     |
| 99      | Feb-17 | 0528 | 4100.0 | 7036.8 | X25336.6   | Y43737.7 | 136    | 25.7              | 42.3     |
| 00      | Feb-17 | 0912 | 4030.8 | 7026.4 | X25318.6   | Y43521.1 | 148    | 36.6              | 46.2     |
| 01      | Feb-17 | 1130 | 4015.4 | 7016.8 | X25310.1   | Y43403.8 | 181    | 52.5              | 52.7     |
| 02      | Feb-17 | 1451 | 4006.5 | 7016.3 | X25334.2   | Y43339.1 | 046    | 64.2              | 56.7     |
| 03      | Feb-17 | 1721 | 4013.8 | 6956.6 | W14168.6   | Y43378.4 | 093    | 49.8              | 49.1     |
| 04      | Feb-17 | 2029 | 4014.1 | 6947.0 | W14118.5   | Y43374.3 | 161    | 47.6              | 47.1     |
| 05      | Feb-17 | 2325 | 3956.6 | 6957.4 | W14225.1   | Y43257.5 | 094    | 160.5             | 51.4     |
| 06      | Feb-18 | 0135 | 4001.4 | 6942.4 | W14135.2   | Y43284.1 | 059    | 64.8              | 57.2     |
| 07      | Feb-18 | 0302 | 4004.2 | 6938.5 | W14107.0   | Y43301.9 | 113    | 57.7              | 57.0     |
| 08      | Feb-18 | 0455 | 4001.2 | 6924.6 | W14047.8   | Y43273.9 | 075    | 53.9              | 55.2     |
| 09      | Feb-18 | 0836 | 4011.6 | 6850.2 | W13847.2   | Y43325.5 | 074    | 69.4              | 54.3     |
| 10      | Feb-18 | 1115 | 4016.2 | 6827.6 | W13725.4   | Y43343.0 | 075    | 79.3              | 54.7     |
| 11      | Feb-18 | 1152 | 4016.4 | 6827.5 | W13724.4   | Y43344.4 | 259    | 71.9              | 54.7     |
| 12      | Feb-18 | 1533 | 4021.3 | 6804.7 | W13603.2   | Y43362.0 | 040    | 81.2              | 53.8     |
| 13      | Feb-18 | 1819 | 4028.4 | 6754.5 | W13530.7   | Y43398.8 | 093    | 64.0              | 53.2     |
| 14      | Feb-18 | 2018 | 4027.9 | 6742.2 | W13479.3   | Y43389.0 | 155    | 97.6              | 54.5     |
| 15      | Feb-18 | 2245 | 4039.4 | 6737.9 | W13414.9   | Y43452.1 | 062    | 45.9              | 45.3     |
| 16      | Feb-19 | 0100 | 4040.9 | 6728.8 | W13369.6   | Y43455.4 | 181    | 49.5              | 48.7     |
| 17      | Feb-19 | 0304 | 4035.9 | 6730.1 | W13396.0   | Y43427.7 | 111    | 53.6              | 50.0     |
| 18      | Feb-19 | 0544 | 4034.1 | 6718.8 | W13356.2   | Y43411.7 | 050    | 67.0              | 55.4     |
| 19      | Feb-19 | 1054 | 4059.6 | 6639.8 | W13093.4   | Y43526.0 | 080    | 47.6              | 43.9     |
| 20      | Feb-19 | 1305 | 4101.8 | 6628.8 | W13042.5   | Y43530.6 | 041    | 67.5              | 53.4     |
| 21      | Feb-19 | 1634 | 4116.9 | 6616.8 | W12930.7   | Y43599.0 | 020    | 63.2              | 51.3     |
| 22      | Feb-19 | 2058 | 4132.1 | 6600.3 | W12802.0   | Y43661.5 | 051    | 72.5              | 55.0     |
| 23      | Feb-20 | 0139 | 4154.4 | 6500.5 | W12510.0   | Y43720.8 | 322    | 99.5              | 53.1     |
| 24      | Feb-20 | 0428 | 4151.1 | 6556.0 | W12696.3   | Y43747.6 | 278    | 53.9              | 46.2     |
| 25      | Feb-20 | 0814 | 4152.6 | 6613.9 | W12750.0   | Y43769.2 | 232    | 43.5              | 41.9     |
| 26      | Feb-20 | 0836 | 4151.6 | 6616.1 | W12762.3   | Y43766.5 | 248    | 44.3              |          |
| 27      | Feb-20 | 1215 | 4151.5 | 6642.9 | W12860.7   | Y43789.3 | 229    | 36.1              | 46.2     |
| 28      | Feb-20 | 1558 | 4134.6 | 6625.4 | W12878.7   | Y43692.4 | 197    | 47.6              | 41.0     |
| 29      | Feb-20 | 1950 | 4129.6 | 6646.6 | W12982.2   | Y43684.2 | 230    | 39.6              | 41.2     |
| 30      | Feb-21 | 0003 | 4116.4 | 6643.4 | W13031.7   | Y43614.9 |        | 42.1              | 41.5     |
| 31      | Feb-21 | 0248 | 4113.9 | 6638.3 | W13023.8   | Y43598.5 | 287    | 42.7              | 41.5     |
| 32      | Feb-21 | 0730 | 4118.4 | 6703.2 | W13100.2   | Y43640.0 | 197    | 34.4              | 41.7     |
| 33      | Feb-21 | 1041 | 4104.1 | 6704.3 | W13169.3   | Y43565.8 | 060    | 36.4              | 41.5     |
| 34      | Feb-21 | 1436 | 4101.9 | 6717.1 | W13231.1   | Y43563.2 | 300    | 36.6              | 41.5     |
| 35      | Feb-21 | 1751 | 4103.7 | 6744.9 | W13341.6   | Y43593.6 | 283    | 28.4              | 41.9     |
| 36      | Feb-21 | 2005 | 4103.9 | 6750.3 | W13364.4   | Y43599.0 | 212    | 27.3              | 41.9     |
| 37      | Feb-21 | 2206 | 4055.8 | 6757.7 | W13432.4   | Y43558.9 | 239    | 29.3              | 41.9     |
| 38      | Feb-22 | 0044 | 4048.5 | 6753.2 | W13443.8   | Y43513.8 | 205    | 38.0              | 41.9     |
| 39      | Feb-22 | 0309 | 4041.9 | 6802.7 | W13513.2   | Y43482.4 | 280    | 42.7              | 44.1     |
| 40      | Feb-22 | 0515 | 4048.8 | 6816.7 | W13548.8   | Y43532.4 | 249    | 28.2              | 42.1     |
| 41      | Feb-23 | 0710 | 4045.1 | 6800.4 | W13489.6   | Y43499.4 | 176    | 30.6              | 42.6     |
| 42      | Feb-23 | 0920 | 4031.3 | 6846.3 | W13757.3   | Y43447.7 | 079    | 38.0              | 42.1     |
| 43      | Feb-23 | 1139 | 4042.2 | 6848.9 | W13727.6   | Y43517.0 | 264    | 36.1              | 42.8     |
| 44      | Feb-23 | 1403 | 4042.0 | 6907.2 | W13818.5   | Y43530.1 | 260    | 38.0              | 42.6     |

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1999 STATION INFORMATION

| Station | Date   | Time | Lat    | Lon    | Loran<br>TD's |          | Course | Bottom<br>Depth<br>(FM) | Temp<br>(F) |
|---------|--------|------|--------|--------|---------------|----------|--------|-------------------------|-------------|
| ---     | -----  | ---- | -----  | -----  | -----         | -----    | ----   | -----                   | ----        |
| 145     | Feb-23 | 1625 | 4041.1 | 6926.2 | W13917.9      | Y43540.0 | 174    | 27.6                    | 41.         |
| 146     | Feb-23 | 1824 | 4029.0 | 6926.9 | W13965.3      | Y43461.5 | 256    | 33.9                    | 42.         |
| 147     | Feb-23 | 2104 | 4028.1 | 6943.6 | W14054.3      | Y43468.1 | 281    | 38.5                    | 42.         |
| 148     | Feb-23 | 2324 | 4041.2 | 6955.1 | W14069.1      | Y43565.4 | 263    | 26.0                    | 40.         |



NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY  
ALBATROSS IV FEB 01 - FEB 24, 1999  
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

| STATION | SPINY DOGFISH | 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 FLOUNDER | ATLANTIC MACKEREL | BUTTERFISH | ACADIAN REDFISH | LONGHORN SCULPIN | OCEAN POUT | GOOSEFISH | AMERICAN LOBSTER | LONGFIN SQUID | TOTAL* | TOTAL |   |
|---------|---------------|--------------|--------------|------------------|-------------|--------------|---------|---------|------------|----------|-----------------|-----------------|---------------------|-----------------|----------------|---------------------|-------------------|------------|-----------------|------------------|------------|-----------|------------------|---------------|--------|-------|---|
|         |               |              |              |                  |             |              |         |         |            |          |                 |                 |                     |                 |                |                     |                   |            |                 |                  |            |           |                  |               | OTHER  | ALL   |   |
| 0001    | 13            | 0            | 48           | 0                | 0           | 0            | 0       | 0       | 0          | 11       | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 16         | 1         | 4                | 108           | 269    |       |   |
| 0002    | 0             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 15            | 23     | 134   |   |
| 0003    | 0             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 10            | 28     | 40    |   |
| 0004    | 28            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 15         | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 11         | 0         | 0                | 73            | 147    |       |   |
| 0005    | 435           | 0            | 32           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 11         | 0         | 0                | 24            | 573    |       |   |
| 0006    | 406           | 0            | 402          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 6          | 4         | 0                | 10            | 854    |       |   |
| 0007    | 240           | 0            | 485          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 14         | 0         | 1                | 10            | 758    |       |   |
| 0008    | 83            | 0            | 87           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 12         | 0         | 1                | 27            | 233    |       |   |
| 0009    | 260           | 0            | 69           | 39               | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 1          | 0         | 0                | 186           | 616    |       |   |
| 0010    | 902           | 0            | 150          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 1          | 3         | 0                | 21            | 35     | 1147  |   |
| 0011    | 1389          | 0            | 128          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 1          | 5         | 0                | 21            | 34     | 1599  |   |
| 0012    | 433           | 0            | 13           | 33               | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 3             | 189    | 703   |   |
| 0013    | 7             | 0            | 3            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 61            | 80     | 215   |   |
| 0014    | 12            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 59            | 65     | 171   |   |
| 0015    | 22            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 3             | 34     | 72    |   |
| 0016    | 12            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 1             | 43     | 60    |   |
| 0017    | 8             | 0            | 1            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 15            | 28     | 79    |   |
| 0018    | 28            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 7             | 19     | 74    |   |
| 0019    | 106           | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 4             | 28     | 252   |   |
| 0020    | 6             | 0            | 13           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 9             | 85     | 175   |   |
| 0021    | 19            | 0            | 48           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 22            | 137    | 268   |   |
| 0022    | 3281          | 0            | 136          | 42               | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 8             | 31     | 3604  |   |
| 0023    | 78            | 0            | 3            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 4             | 39     | 158   |   |
| 0024    | 22            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 2             | 60     | 108   |   |
| 0025    | 524           | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 9             | 66     | 672   |   |
| 0026    | 4538          | 0            | 3            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 17         | 0         | 33               | 51            | 4663   |       |   |
| 0027    | 165           | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 1             | 28     | 241   |   |
| 0028    | 67            | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 44         | 0         | 13               | 23            | 123    |       |   |
| 0029    | 2             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 9          | 0         | 0                | 0             | 0      | 0     | 0 |
| 0030    | 0             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 22         | 2         | 5                | 61            | 121    |       |   |
| 0031    | 1723          | 0            | 1            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 24         | 0         | 28               | 98            | 214    |       |   |
| 0032    | 31            | 0            | 1            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 10         | 0         | 20               | 65            | 1846   |       |   |
| 0033    | 0             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 4          | 0         | 0                | 4             | 41     |       |   |
| 0034    | 1401          | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 5          | 0         | 14               | 46            | 77     |       |   |
| 0035    | 8763          | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 4        | 0               | 0               | 0                   | 0               | 10             | 0                   | 0                 | 0          | 0               | 0                | 9          | 5         | 15               | 173           | 1667   |       |   |
| 0036    | 191           | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 4                | 2             | 52     | 8841  |   |
| 0037    | 1538          | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 17         | 0         | 16               | 152           | 444    |       |   |
| 0038    | 2766          | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 6          | 0         | 81               | 35            | 1715   |       |   |
| 0039    | 3             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 7                | 291           | 3073   |       |   |
|         |               |              |              |                  |             |              |         |         |            |          |                 |                 |                     |                 |                |                     |                   |            |                 |                  |            |           | 18               | 149           | 174    |       |   |

NMFS-NBFS WINTER BOTTOM TRAWL SURVEY  
 ALBATROSS IV FEB 01 - FEB 24, 1999  
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

| STATION | SPINY DOGFISH | WINTER SKATE | LITTLE SKATE | ATLANTIC HERRING | SILVER HAKE | ATLANTIC COD | HADDOCK | POLLOCK | WHITE HAKE | RED HAKE | AMERICAN FLAKE | SUMMER FLOUNDER | YELLOWTAIL FLOUNDER | WINTER FLOUNDER | WITCH FLOUNDER | WINDOWPANE FLOUNDER | ATLANTIC MACKEREL | BUTTERFISH | ACADIAN REDFISH | LONGHORN SCULPIN | OCEAN POUT | GOOSEFISH | AMERICAN LOBSTER | LONGFIN SQUID | TOTAL OTHER | TOTAL ALL |      |      |     |
|---------|---------------|--------------|--------------|------------------|-------------|--------------|---------|---------|------------|----------|----------------|-----------------|---------------------|-----------------|----------------|---------------------|-------------------|------------|-----------------|------------------|------------|-----------|------------------|---------------|-------------|-----------|------|------|-----|
| 0040    | 0             | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 11          | 2827      | 2840 |      |     |
| 0041    | 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           | 33        | 147  | 196  |     |
| 0042    | 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           | 73        | 149  | 230  |     |
| 0043    | 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           | 36        | 188  | 236  |     |
| 0044    | 0             | 0            | 4            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 4               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 32        | 165  | 253  |     |
| 0045    | 261           | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 18              | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 3         | 32   | 315  |     |
| 0046    | 2398          | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 14              | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 6         | 17   | 2452 |     |
| 0047    | 565           | 0            | 19           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 47              | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 21        | 65   | 732  |     |
| 0048    | 432           | 83           | 20           | 14               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 8               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 20        | 95   | 683  |     |
| 0049    | 105           | 0            | 0            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 2         | 35   | 150  |     |
| 0050    | 713           | 0            | 30           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 14              | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 7         | 80   | 844  |     |
| 0051    | 1270          | 13           | 40           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 39              | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 7         | 104  | 1477 |     |
| 0052    | 61            | 6            | 20           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 28              | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 5         | 78   | 204  |     |
| 0053    | 3915          | 16           | 100          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 39              | 0                   | 0               | 15             | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 5         | 80   | 4170 |     |
| 0054    | 174           | 9            | 30           | 1                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 8               | 0                   | 0               | 5              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 3         | 25   | 255  |     |
| 0055    | 3882          | 9            | 174          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 102             | 0                   | 1               | 1              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 2         | 597  | 4771 |     |
| 0056    | 512           | 11           | 30           | 1                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 18              | 0                   | 0               | 15             | 5                   | 1                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 1         | 2    | 596  |     |
| 0057    | 445           | 0            | 92           | 22               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 48              | 0                   | 0               | 1              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 5         | 30   | 647  |     |
| 0058    | 418           | 17           | 100          | 13               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 1               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 1         | 1    | 552  |     |
| 0059    | 72            | 6            | 68           | 3                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 4               | 0                   | 0               | 5              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 0         | 0    | 17   | 175 |
| 0060    | 325           | 62           | 139          | 39               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 6               | 0                   | 0               | 1              | 12                  | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 2         | 11   | 603  |     |
| 0061    | 275           | 0            | 128          | 85               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 11              | 0                   | 0               | 1              | 1                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 1         | 6    | 17   | 527 |
| 0062    | 787           | 8            | 85           | 5                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 9               | 0                   | 0               | 0              | 1                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 1         | 7    | 908  |     |
| 0063    | 204           | 0            | 578          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 4               | 0                   | 0               | 11             | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 1         | 96   | 894  |     |
| 0064    | 316           | 0            | 79           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 0                   | 0               | 5              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 1         | 3    | 423  |     |
| 0065    | 527           | 15           | 145          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 3               | 4                   | 3               | 17             | 1                   | 0                 | 0          | 0               | 0                | 0          | 11        | 0                | 0             | 0           | 0         | 16   | 742  |     |
| 0066    | 978           | 4            | 115          | 10               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 1                   | 1               | 2              | 0                   | 0                 | 0          | 0               | 0                | 0          | 1         | 0                | 1             | 1           | 3         | 3    | 1116 |     |
| 0067    | 823           | 21           | 173          | 13               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 7                   | 0               | 0              | 2                   | 0                 | 0          | 0               | 0                | 0          | 4         | 0                | 1             | 2           | 6         | 1052 |      |     |
| 0068    | 225           | 0            | 152          | 24               | 1           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 1                   | 0               | 1              | 21                  | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 0           | 0         | 0    | 0    | 425 |
| 0069    | 516           | 0            | 135          | 12               | 2           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 0                   | 2               | 2              | 0                   | 0                 | 0          | 0               | 0                | 0          | 2         | 16               | 0             | 7           | 43        | 746  |      |     |
| 0070    | 358           | 0            | 366          | 15               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 8                   | 6               | 2              | 0                   | 0                 | 0          | 0               | 0                | 0          | 6         | 0                | 0             | 2           | 8         | 8    | 771  |     |
| 0071    | 148           | 12           | 136          | 3                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 6                   | 2               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 6         | 0                | 0             | 0           | 0         | 6    | 319  |     |
| 0072    | 364           | 0            | 297          | 14               | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 1               | 9                   | 3               | 0              | 7                   | 0                 | 0          | 0               | 0                | 0          | 20        | 0                | 0             | 1           | 13        | 729  |      |     |
| 0073    | 386           | 0            | 306          | 1                | 1           | 0            | 0       | 0       | 0          | 0        | 0              | 5               | 32                  | 13              | 0              | 15                  | 0                 | 0          | 0               | 0                | 161        | 1         | 0                | 0             | 0           | 15        | 936  |      |     |
| 0074    | 117           | 26           | 172          | 3                | 0           | 0            | 0       | 0       | 0          | 0        | 0              | 19              | 31                  | 26              | 0              | 6                   | 0                 | 0          | 0               | 0                | 923        | 11        | 0                | 0             | 7           | 7         | 1341 |      |     |
| 0075    | 44            | 28           | 196          | 0                | 1           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 22                  | 38              | 0              | 15                  | 0                 | 0          | 0               | 0                | 2          | 78        | 0                | 0             | 0           | 8         | 432  |      |     |
| 0076    | 6             | 64           | 210          | 4                | 3           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 25                  | 31              | 0              | 13                  | 0                 | 0          | 0               | 0                | 51         | 1         | 0                | 0             | 0           | 5         | 413  |      |     |
| 0077    | 79            | 52           | 201          | 187              | 1           | 0            | 0       | 0       | 0          | 0        | 0              | 0               | 19                  | 7               | 0              | 12                  | 46                | 0          | 0               | 0                | 51         | 14        | 0                | 0             | 0           | 7         | 637  |      |     |
| 0078    | 770           | 7            | 304          | 25               | 5           | 0            | 0       | 0       | 0          | 0        | 0              | 27              | 0                   | 0               | 1              | 0                   | 2                 | 0          | 0               | 0                | 2          | 21        | 0                | 13            | 44          | 1221      |      |      |     |

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ALBATROSS IV FEB 01 - FEB 24, 1999  
CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

| STATION | SPINY DOGFISH | 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 FLOUNDER | ATLANTIC MACKEREL | BUTTERFISH | ACADIAN REDFISH | LONGHORN SCULPIN | OCEAN FOUT | GOOSEFISH | AMERICAN LOBSTER | LONGFIN SQUID | TOTAL OTHER | TOTAL ALL |
|---------|---------------|--------------|--------------|------------------|-------------|--------------|---------|---------|------------|----------|-----------------|-----------------|---------------------|-----------------|----------------|---------------------|-------------------|------------|-----------------|------------------|------------|-----------|------------------|---------------|-------------|-----------|
| 0079    | 433           | 0            | 706          | 46               | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 74          | 1347      |
| 0080    | 1395          | 0            | 338          | 233              | 0           | 0            | 0       | 20      | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 50          | 2277      |
| 0081    | 505           | 0            | 110          | 78               | 13          | 0            | 0       | 0       | 6          | 16       | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 11         | 27        | 2                | 26            | 90          | 951       |
| 0082    | 1239          | 0            | 21           | 0                | 10          | 0            | 0       | 0       | 1          | 26       | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 1          | 12        | 3                | 20            | 55          | 1484      |
| 0083    | 7009          | 0            | 15           | 0                | 6           | 0            | 0       | 0       | 0          | 17       | 0               | 0               | 0                   | 1               | 0              | 2                   | 13                | 0          | 0               | 0                | 2          | 13        | 2                | 13            | 48          | 7236      |
| 0084    | 944           | 0            | 1            | 0                | 5           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 0               | 0              | 0                   | 6                 | 0          | 0               | 0                | 0          | 9         | 2                | 3             | 22          | 1050      |
| 0085    | 44            | 0            | 0            | 0                | 2           | 0            | 0       | 0       | 0          | 2        | 0               | 0               | 0                   | 0               | 0              | 0                   | 50                | 0          | 0               | 0                | 0          | 25        | 1                | 13            | 14          | 155       |
| 0086    | 0             | 0            | 0            | 0                | 15          | 0            | 0       | 0       | 0          | 13       | 0               | 0               | 0                   | 0               | 9              | 0                   | 0                 | 1          | 0               | 0                | 0          | 41        | 0                | 1             | 15          | 95        |
| 0087    | 0             | 0            | 0            | 0                | 11          | 0            | 0       | 0       | 1          | 15       | 0               | 0               | 0                   | 0               | 0              | 0                   | 4                 | 0          | 0               | 0                | 0          | 15        | 0                | 4             | 12          | 92        |
| 0088    | 2             | 0            | 0            | 0                | 18          | 0            | 0       | 0       | 0          | 5        | 0               | 0               | 0                   | 0               | 0              | 2                   | 3                 | 0          | 0               | 0                | 0          | 25        | 0                | 3             | 17          | 101       |
| 0089    | 285           | 0            | 0            | 14               | 4           | 0            | 0       | 0       | 0          | 1        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 0                | 0          | 15        | 0                | 4             | 26          | 361       |
| 0090    | 11129         | 16           | 174          | 0                | 11          | 0            | 1       | 0       | 0          | 2        | 0               | 38              | 81                  | 0               | 2              | 11                  | 4                 | 0          | 0               | 0                | 0          | 13        | 16               | 0             | 49          | 11552     |
| 0091    | 2152          | 8            | 147          | 34               | 16          | 4            | 0       | 0       | 1          | 3        | 0               | 0               | 57                  | 1               | 5              | 0                   | 31                | 1          | 0               | 1                | 43         | 0         | 0                | 6             | 34          | 2553      |
| 0092    | 358           | 30           | 120          | 0                | 8           | 0            | 0       | 0       | 0          | 4        | 0               | 3               | 70                  | 0               | 0              | 6                   | 0                 | 0          | 0               | 0                | 7          | 53        | 14               | 0             | 35          | 732       |
| 0093    | 35            | 80           | 139          | 0                | 13          | 0            | 0       | 0       | 0          | 1        | 0               | 0               | 76                  | 131             | 0              | 20                  | 0                 | 0          | 0               | 19               | 669        | 72        | 1                | 2             | 34          | 1297      |
| 0094    | 5             | 22           | 6            | 0                | 0           | 3            | 0       | 0       | 0          | 0        | 0               | 0               | 4                   | 1               | 0              | 0                   | 0                 | 0          | 3               | 12               | 1          | 1         | 0                | 0             | 1           | 60        |
| 0095    | 482           | 96           | 45           | 18               | 1           | 6            | 0       | 0       | 0          | 3        | 0               | 0               | 35                  | 25              | 0              | 10                  | 0                 | 0          | 0               | 2                | 28         | 15        | 2                | 8             | 12          | 788       |
| 0096    | 1016          | 396          | 583          | 76               | 5           | 0            | 0       | 0       | 0          | 2        | 0               | 8               | 71                  | 61              | 0              | 51                  | 1                 | 0          | 0               | 13               | 48         | 52        | 0                | 0             | 13          | 2496      |
| 0097    | 7             | 138          | 130          | 19               | 2           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 1               | 0              | 2                   | 0                 | 0          | 0               | 1                | 0          | 0         | 0                | 0             | 18          | 518       |
| 0098    | 0             | 7            | 15           | 1                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 4               | 0              | 0                   | 0                 | 0          | 0               | 2                | 0          | 0         | 0                | 0             | 7           | 36        |
| 0099    | 205           | 229          | 547          | 39               | 8           | 0            | 0       | 0       | 0          | 1        | 0               | 0               | 0                   | 8               | 0              | 7                   | 0                 | 0          | 0               | 370              | 2          | 1         | 0                | 0             | 10          | 1427      |
| 0100    | 108           | 9            | 187          | 22               | 9           | 0            | 0       | 0       | 1          | 2        | 0               | 10              | 19                  | 0               | 6              | 12                  | 87                | 0          | 0               | 0                | 3          | 93        | 0                | 2             | 115         | 685       |
| 0101    | 1783          | 0            | 15           | 102              | 64          | 0            | 0       | 0       | 0          | 216      | 0               | 83              | 0                   | 0               | 2              | 0                   | 0                 | 15         | 0               | 0                | 0          | 26        | 0                | 8             | 70          | 2384      |
| 0102    | 2             | 3            | 11           | 30               | 9           | 0            | 0       | 0       | 0          | 0        | 0               | 78              | 0                   | 0               | 0              | 0                   | 0                 | 1          | 0               | 0                | 0          | 14        | 0                | 32            | 74          | 254       |
| 0103    | 4154          | 0            | 8            | 39               | 0           | 2            | 0       | 0       | 0          | 32       | 0               | 58              | 0                   | 0               | 3              | 0                   | 0                 | 2          | 0               | 0                | 0          | 18        | 0                | 3             | 58          | 4384      |
| 0104    | 143           | 0            | 32           | 33               | 50          | 0            | 0       | 0       | 0          | 4        | 0               | 23              | 0                   | 0               | 1              | 0                   | 3                 | 0          | 0               | 0                | 0          | 18        | 0                | 1             | 114         | 422       |
| 0105    | 9             | 0            | 9            | 1                | 14          | 0            | 1       | 0       | 0          | 1        | 0               | 0               | 0                   | 0               | 1              | 0                   | 0                 | 0          | 0               | 0                | 0          | 19        | 7                | 0             | 30          | 92        |
| 0106    | 2             | 0            | 0            | 0                | 1           | 0            | 0       | 0       | 0          | 0        | 0               | 20              | 0                   | 0               | 0              | 0                   | 4                 | 0          | 0               | 0                | 0          | 24        | 1                | 17            | 43          | 112       |
| 0107    | 0             | 0            | 1            | 0                | 2           | 0            | 0       | 0       | 0          | 6        | 0               | 22              | 0                   | 0               | 1              | 0                   | 0                 | 0          | 0               | 0                | 0          | 33        | 0                | 11            | 62          | 194       |
| 0108    | 3             | 0            | 5            | 0                | 2           | 0            | 0       | 0       | 0          | 0        | 0               | 7               | 0                   | 0               | 2              | 0                   | 0                 | 5          | 0               | 0                | 0          | 10        | 0                | 13            | 44          | 91        |
| 0109    | 8             | 0            | 6            | 0                | 3           | 0            | 0       | 0       | 10         | 1        | 0               | 208             | 0                   | 0               | 13             | 0                   | 0                 | 0          | 0               | 0                | 0          | 4         | 0                | 15            | 98          | 369       |
| 0110    | 0             | 0            | 3            | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 9               | 0                   | 0               | 4              | 0                   | 0                 | 0          | 0               | 0                | 0          | 6         | 0                | 1             | 13          | 36        |
| 0111    | 0             | 0            | 4            | 0                | 1           | 0            | 0       | 0       | 0          | 4        | 0               | 47              | 0                   | 0               | 22             | 0                   | 0                 | 1          | 0               | 0                | 0          | 15        | 0                | 22            | 171         | 289       |
| 0112    | 4             | 0            | 13           | 0                | 1           | 0            | 0       | 0       | 0          | 1        | 0               | 3               | 0                   | 0               | 56             | 0                   | 0                 | 0          | 0               | 0                | 0          | 7         | 0                | 1             | 86          | 172       |
| 0113    | 0             | 0            | 7            | 0                | 1           | 0            | 0       | 0       | 0          | 3        | 0               | 4               | 0                   | 0               | 0              | 0                   | 0                 | 7          | 0               | 0                | 0          | 15        | 0                | 21            | 29          | 87        |
| 0114    | 0             | 0            | 1            | 0                | 35          | 11           | 0       | 0       | 0          | 20       | 0               | 0               | 0                   | 0               | 8              | 0                   | 0                 | 0          | 0               | 0                | 3          | 8         | 11               | 7             | 22          | 126       |
| 0115    | 28            | 0            | 163          | 5                | 46          | 4            | 11      | 0       | 5          | 14       | 0               | 0               | 1                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 2                | 76         | 5         | 0                | 0             | 55          | 415       |
| 0116    | 963           | 11           | 114          | 3                | 15          | 0            | 6       | 0       | 0          | 26       | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 2                | 17         | 48        | 0                | 0             | 85          | 1290      |
| 0117    | 7             | 0            | 32           | 0                | 4           | 0            | 0       | 0       | 0          | 6        | 0               | 0               | 0                   | 0               | 5              | 0                   | 1                 | 0          | 0               | 3                | 4          | 26        | 0                | 2             | 41          | 139       |

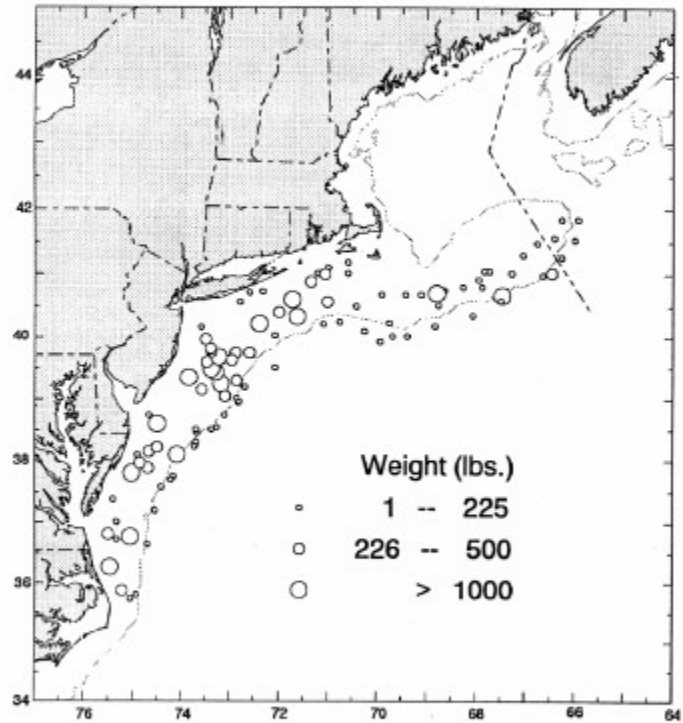
NMFS-NEFSC WINTER BOTTOM TRAWL SURVEY  
 ALBATROSS IV FEB 01 - FEB 24, 1999  
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

| STATION | SPINY DOGFISH | 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 FLOUNDER | ATLANTIC MACKEREL | BUTTERFISH | ACADIAN REDFISH | LONGHORN SCULPIN | OCEAN POUT | GOOSEFISH | AMERICAN LOBSTER | LONGFIN SQUID | TOTAL*<br>OTHER | TOTAL<br>ALL |
|---------|---------------|--------------|--------------|------------------|-------------|--------------|---------|---------|------------|----------|-----------------|-----------------|---------------------|-----------------|----------------|---------------------|-------------------|------------|-----------------|------------------|------------|-----------|------------------|---------------|-----------------|--------------|
| 0118    | 0             | 0            | 26           | 0                | 11          | 0            | 0       | 0       | 0          | 1        | 0               | 45              | 0                   | 0               | 1              | 0                   | 0                 | 3          | 0               | 1                | 5          | 0         | 0                | 50            | 30              |              |
| 0119    | 14            | 29           | 86           | 28               | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 3                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 16               | 2          | 0         | 0                | 4             | 95              |              |
| 0120    | 412           | 55           | 26           | 0                | 58          | 0            | 0       | 0       | 0          | 176      | 0               | 0               | 0                   | 0               | 1              | 0                   | 0                 | 16         | 0               | 0                | 0          | 0         | 0                | 2             | 105             |              |
| 0121    | 113           | 9            | 21           | 1                | 4           | 117          | 91      | 1       | 15         | 3        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 1          | 0               | 3                | 0          | 0         | 1                | 38            | 17              |              |
| 0122    | 15            | 8            | 97           | 4                | 3           | 0            | 15      | 0       | 0          | 4        | 0               | 0               | 0                   | 0               | 0              | 0                   | 0                 | 0          | 0               | 1                | 0          | 0         | 0                | 2             | 28              |              |
| 0123    | 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            |
| 0124    | 9             | 17           | 89           | 109              | 0           | 54           | 164     | 0       | 0          | 0        | 10              | 0               | 13                  | 0               | 0              | 0                   | 0                 | 0          | 0               | 61               | 0          | 0         | 0                | 0             | 154             |              |
| 0125    | 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            |
| 0126    | 11            | 77           | 37           | 0                | 0           | 51           | 37      | 0       | 0          | 0        | 150             | 0               | 127                 | 16              | 0              | 0                   | 0                 | 0          | 0               | 32               | 5          | 0         | 0                | 0             | 41              |              |
| 0127    | 0             | 18           | 18           | 0                | 0           | 3            | 7       | 0       | 0          | 0        | 9               | 0               | 13                  | 28              | 0              | 0                   | 0                 | 0          | 0               | 9                | 4          | 0         | 0                | 0             | 9               |              |
| 0128    | 45            | 309          | 88           | 0                | 0           | 10           | 108     | 0       | 0          | 0        | 34              | 1               | 531                 | 4               | 0              | 16                  | 0                 | 0          | 0               | 20               | 13         | 0         | 0                | 0             | 44              |              |
| 0129    | 16            | 285          | 339          | 0                | 0           | 36           | 0       | 0       | 0          | 0        | 10              | 0               | 101                 | 0               | 0              | 10                  | 0                 | 0          | 0               | 6                | 0          | 0         | 0                | 0             | 13              |              |
| 0131    | 0             | 293          | 193          | 5                | 0           | 11           | 0       | 0       | 0          | 0        | 0               | 0               | 466                 | 0               | 2              | 1                   | 9                 | 0          | 0               | 3                | 0          | 30        | 0                | 0             | 113             |              |
| 0132    | 87            | 253          | 363          | 0                | 1           | 26           | 0       | 0       | 0          | 0        | 9               | 0               | 37                  | 5               | 0              | 58                  | 0                 | 0          | 0               | 7                | 18         | 0         | 0                | 0             | 41              |              |
| 0133    | 0             | 235          | 100          | 0                | 0           | 4            | 0       | 0       | 0          | 0        | 8               | 8               | 174                 | 5               | 3              | 209                 | 0                 | 0          | 0               | 1                | 17         | 0         | 0                | 0             | 21              |              |
| 0134    | 19            | 248          | 217          | 0                | 0           | 56           | 0       | 0       | 0          | 0        | 7               | 11              | 240                 | 4               | 0              | 105                 | 3                 | 0          | 0               | 6                | 18         | 0         | 0                | 0             | 78              |              |
| 0135    | 16            | 497          | 363          | 0                | 0           | 29           | 0       | 0       | 0          | 0        | 2               | 0               | 5                   | 2               | 0              | 98                  | 0                 | 0          | 0               | 5                | 0          | 0         | 0                | 0             | 4               |              |
| 0136    | 26            | 226          | 142          | 0                | 0           | 13           | 0       | 0       | 0          | 0        | 0               | 0               | 2                   | 0               | 0              | 41                  | 0                 | 0          | 0               | 1                | 0          | 0         | 0                | 0             | 3               |              |
| 0137    | 93            | 330          | 235          | 0                | 3           | 6            | 0       | 0       | 0          | 0        | 1               | 7               | 6                   | 3               | 0              | 58                  | 1                 | 0          | 0               | 3                | 3          | 0         | 0                | 0             | 10              |              |
| 0138    | 80            | 96           | 139          | 3                | 0           | 3            | 0       | 0       | 0          | 0        | 9               | 4               | 50                  | 0               | 0              | 78                  | 1                 | 0          | 0               | 4                | 2          | 0         | 0                | 0             | 33              |              |
| 0139    | 0             | 0            | 268          | 9                | 4           | 10           | 0       | 0       | 1          | 1        | 7               | 0               | 27                  | 0               | 0              | 24                  | 0                 | 0          | 0               | 4                | 8          | 3         | 0                | 1             | 45              |              |
| 0140    | 4             | 334          | 150          | 0                | 0           | 15           | 0       | 0       | 0          | 0        | 2               | 0               | 3                   | 0               | 0              | 111                 | 0                 | 0          | 0               | 0                | 0          | 0         | 0                | 0             | 7               |              |
| 0141    | 3             | 75           | 66           | 0                | 0           | 6            | 0       | 0       | 0          | 0        | 2               | 0               | 1                   | 0               | 0              | 6                   | 0                 | 0          | 0               | 2                | 0          | 0         | 0                | 0             | 8               |              |
| 0142    | 6             | 68           | 66           | 0                | 1           | 0            | 0       | 0       | 0          | 0        | 5               | 10              | 53                  | 0               | 0              | 98                  | 0                 | 0          | 0               | 2                | 4          | 0         | 0                | 0             | 20              |              |
| 0143    | 600           | 110          | 131          | 1                | 1           | 0            | 2       | 0       | 0          | 0        | 1               | 0               | 36                  | 0               | 0              | 68                  | 0                 | 0          | 0               | 0                | 22         | 0         | 0                | 0             | 4               |              |
| 0144    | 218           | 262          | 89           | 11               | 2           | 3            | 2       | 0       | 0          | 0        | 0               | 1               | 15                  | 7               | 0              | 139                 | 2                 | 0          | 0               | 7                | 27         | 0         | 0                | 0             | 24              |              |
| 0145    | 3             | 231          | 62           | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 1               | 5                   | 0               | 0              | 55                  | 0                 | 0          | 0               | 18               | 0          | 0         | 0                | 0             | 2               |              |
| 0146    | 0             | 600          | 724          | 16               | 1           | 18           | 5       | 0       | 0          | 5        | 0               | 10              | 48                  | 19              | 0              | 82                  | 1                 | 0          | 0               | 22               | 18         | 0         | 0                | 0             | 67              |              |
| 0147    | 0             | 86           | 218          | 4                | 1           | 0            | 0       | 0       | 0          | 0        | 0               | 9               | 14                  | 0               | 2              | 19                  | 0                 | 0          | 0               | 0                | 0          | 25        | 0                | 0             | 33              |              |
| 0148    | 36            | 208          | 263          | 0                | 0           | 0            | 0       | 0       | 0          | 0        | 0               | 0               | 0                   | 1               | 0              | 5                   | 0                 | 0          | 0               | 15               | 0          | 0         | 0                | 0             | 4               |              |
| TOTAL   | 88268         | 646714898    | 1589         | 1144             | 499         | 452          | 21      | 58      | 745        | 266      | 2464            | 2586            | 467                 | 236             | 1587           | 437                 | 526               | 0          | 678             | 2437             | 1237       | 86        | 1289             | 10687         | 139124          |              |

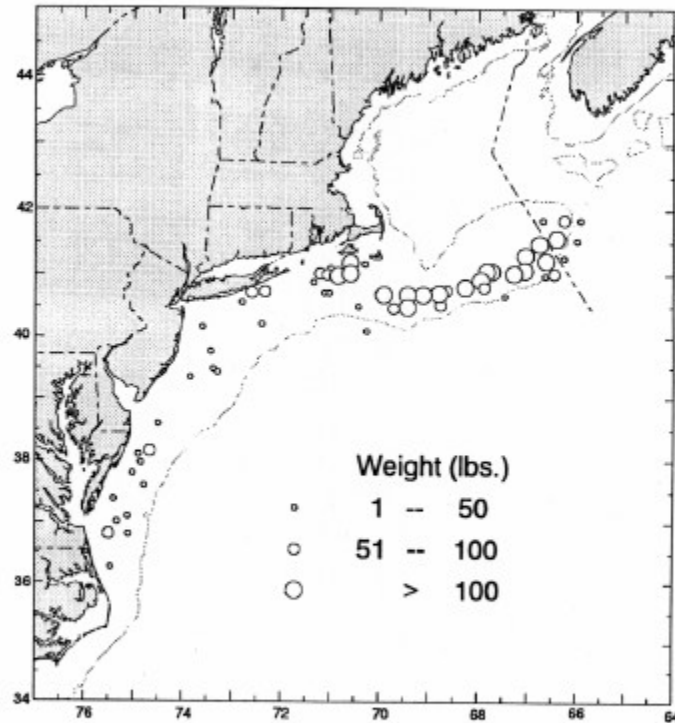
\* "Total others" in southern areas are comprised primarily of rays, large sharks and spotted hake.

\*\* Biological Station 130 data unavailable

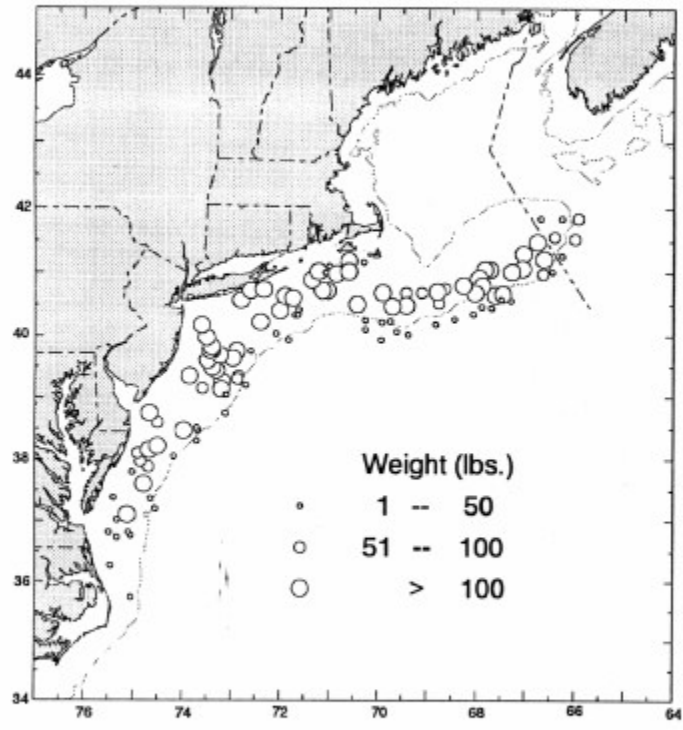
**SPINY DOGFISH**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



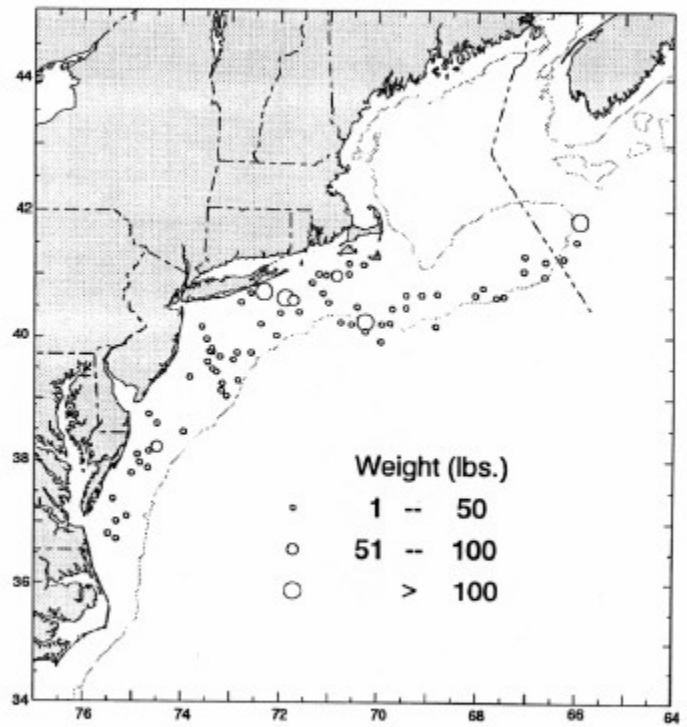
**WINTER SKATE**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



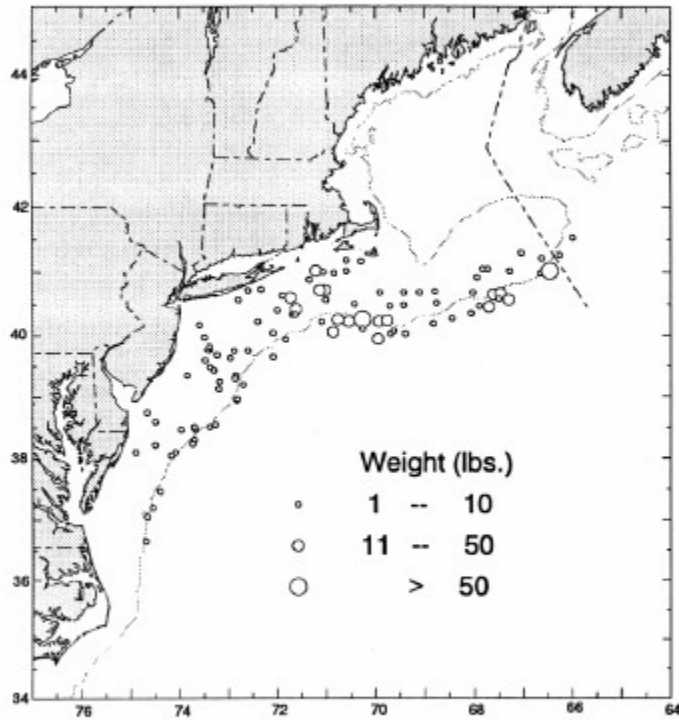
**LITTLE SKATE**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



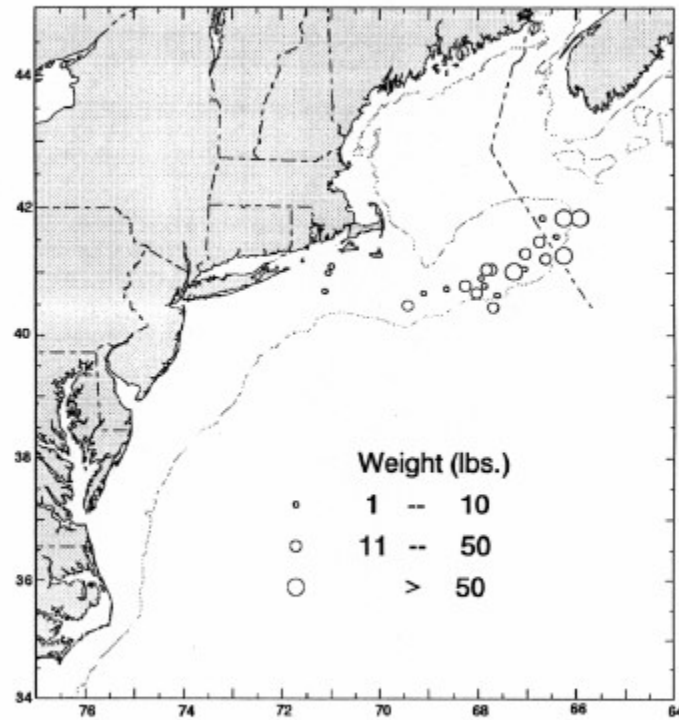
**ATLANTIC HERRING**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



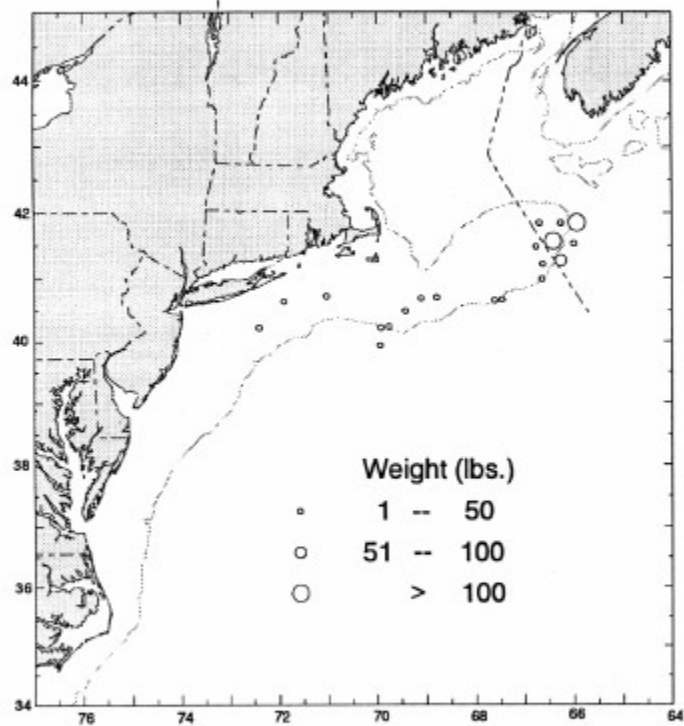
**SILVER HAKE**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



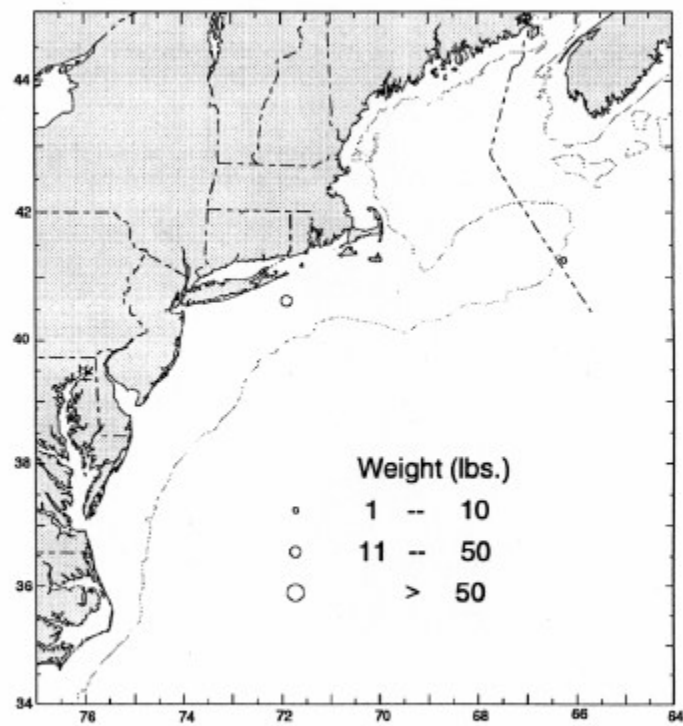
**ATLANTIC COD**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



**HADDOCK**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999

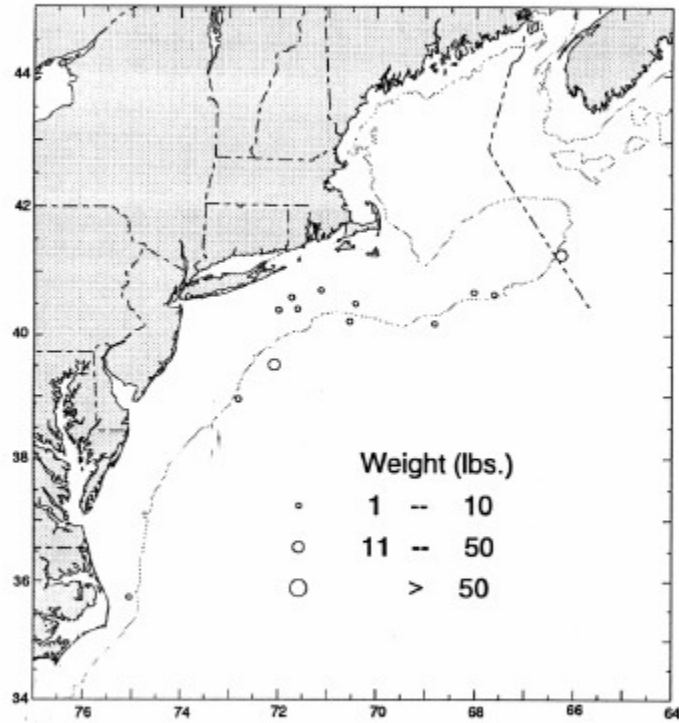


**POLLOCK**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999

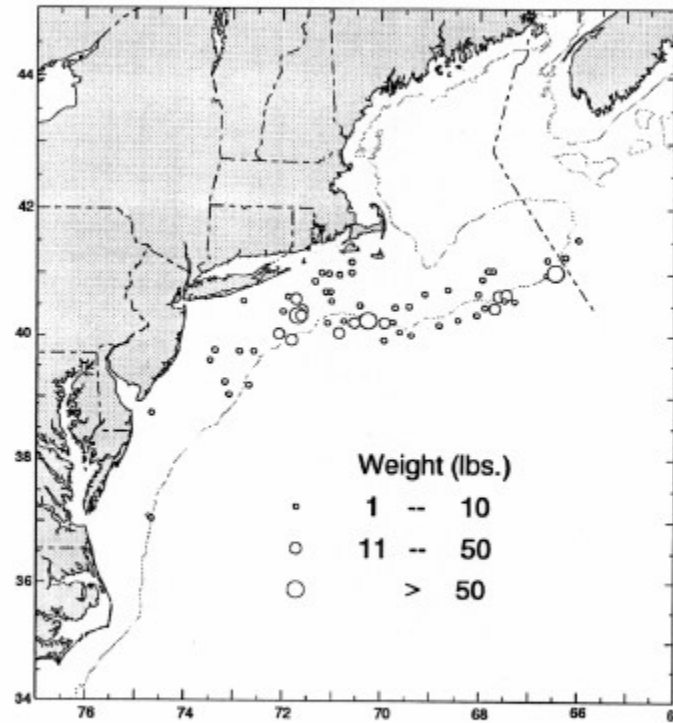




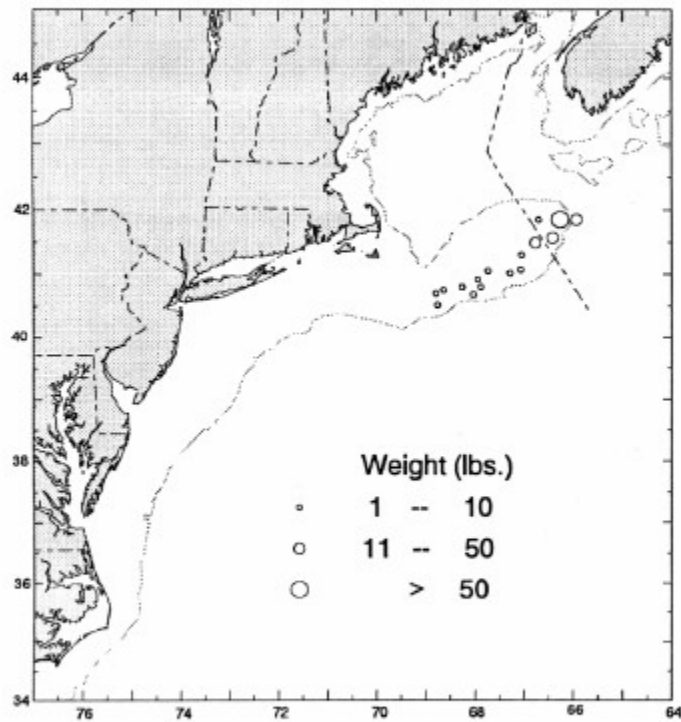
**WHITE HAKE**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



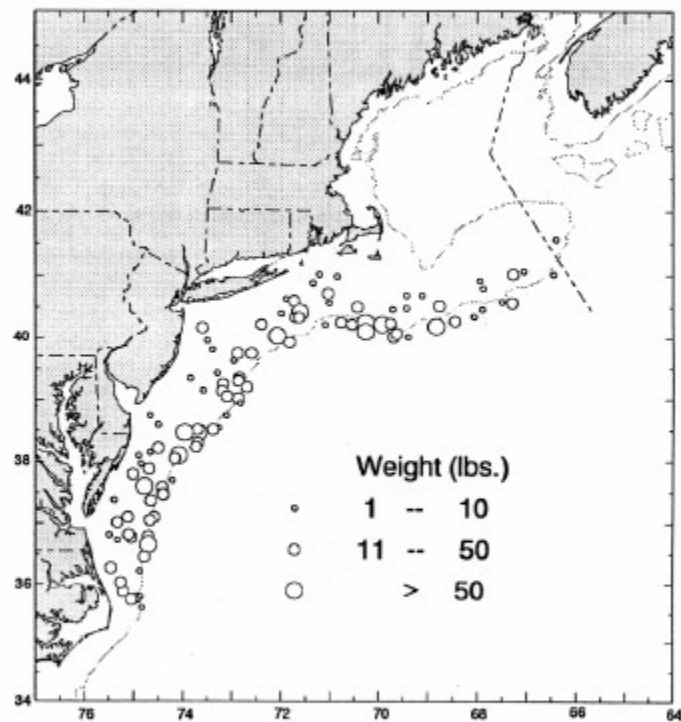
**RED HAKE**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



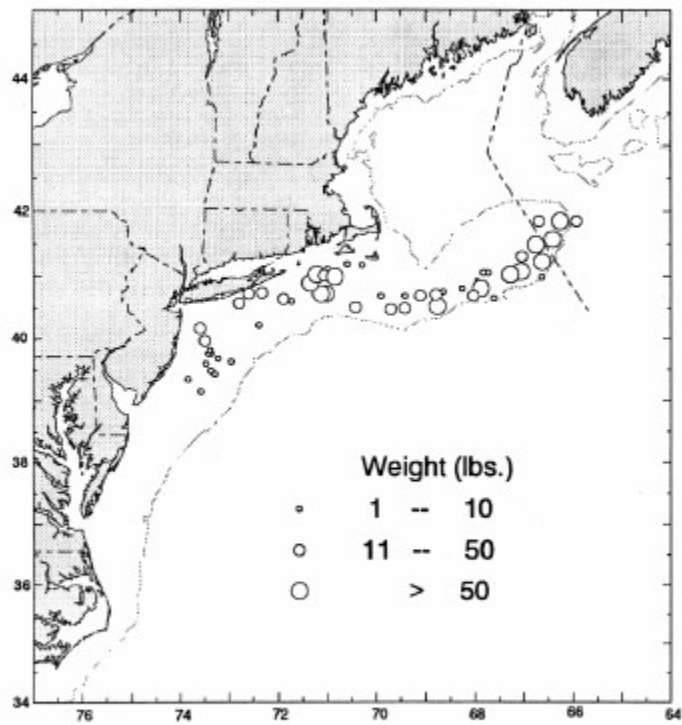
**AMERICAN PLAICE**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



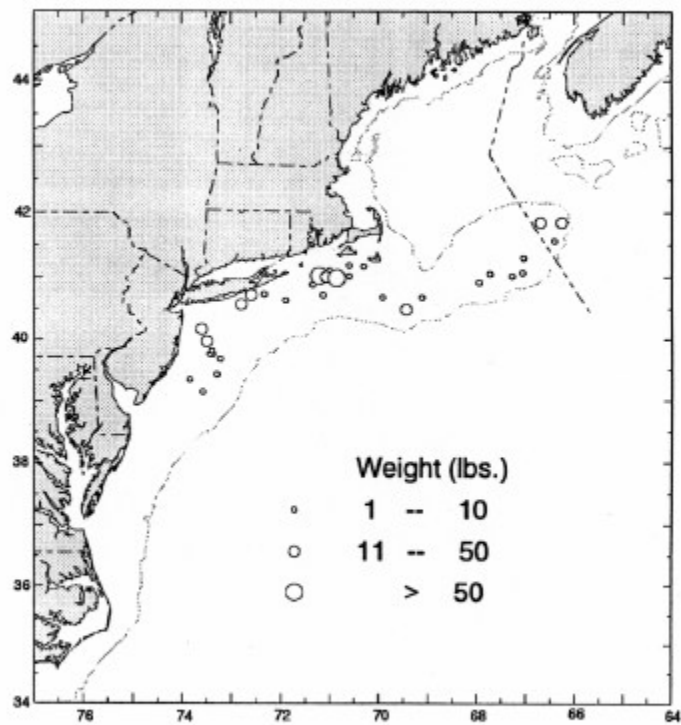
**SUMMER FLOUNDER**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



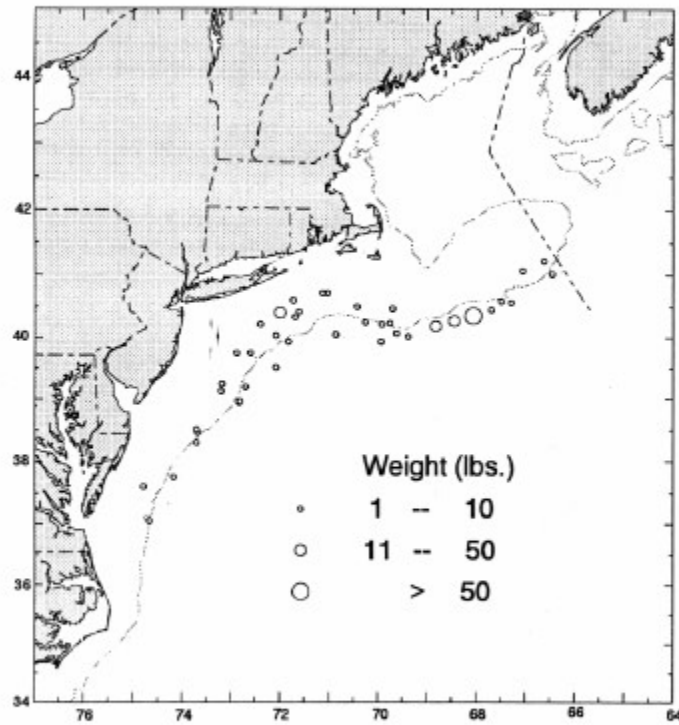
**YELLOWTAIL FLOUNDER**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



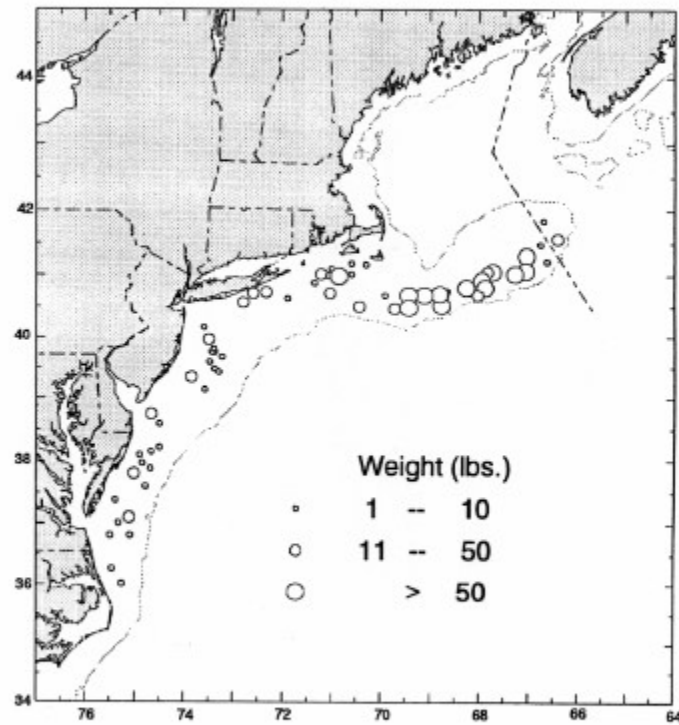
**WINTER FLOUNDER**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



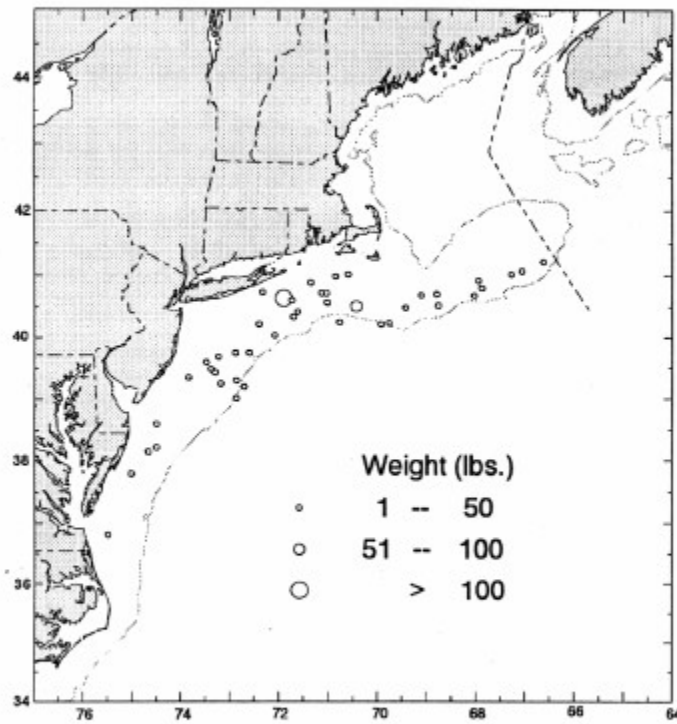
WITCH FLOUNDER  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



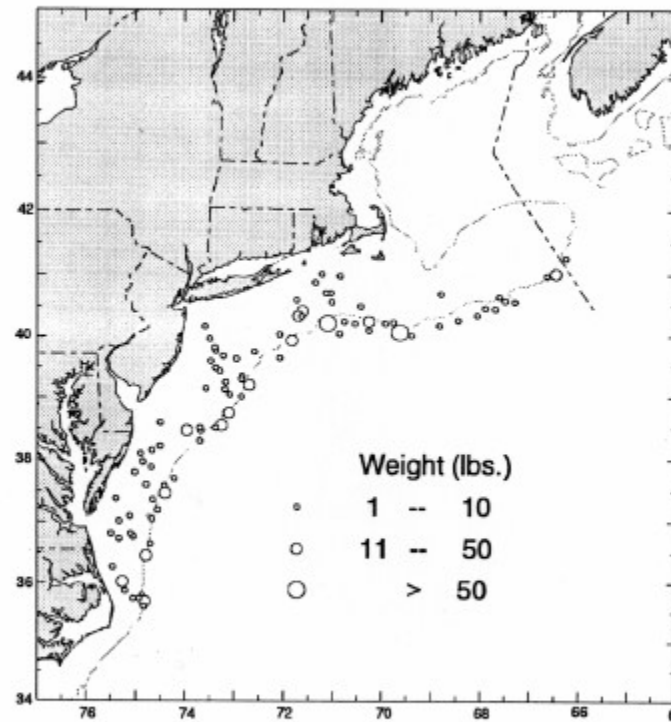
WINDOWPANE FLOUNDER  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



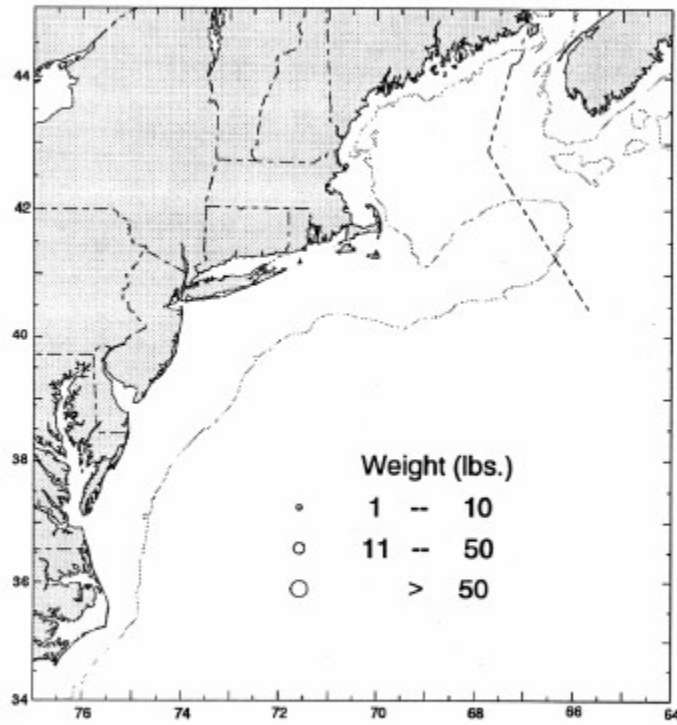
**ATLANTIC MACKEREL**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



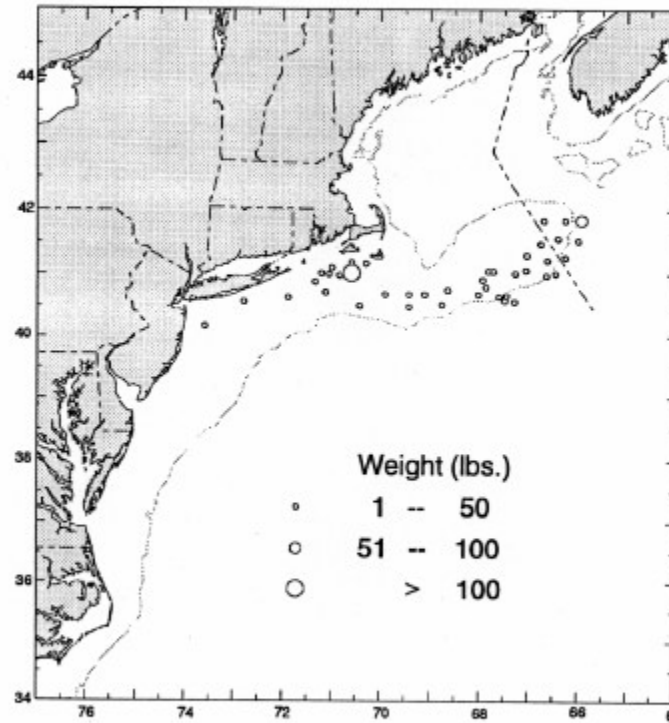
**BUTTERFISH**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



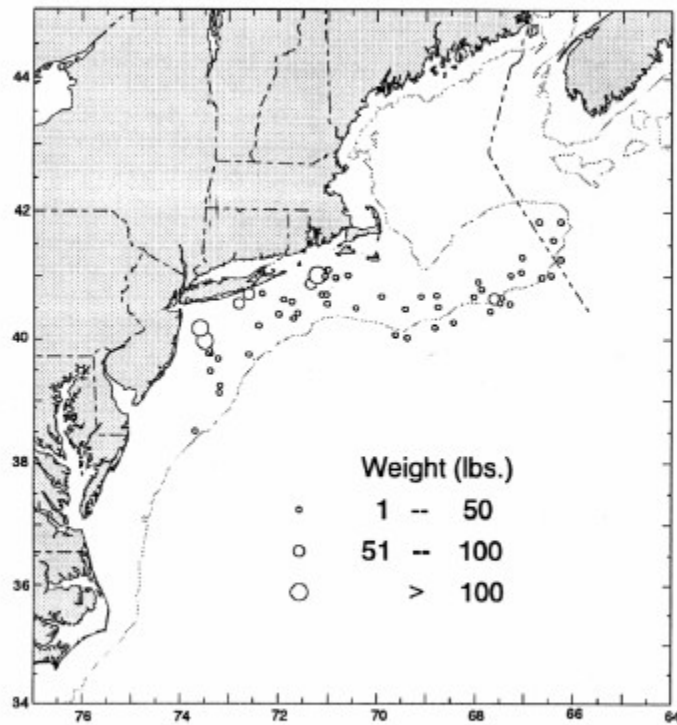
**ACADIAN REDFISH**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



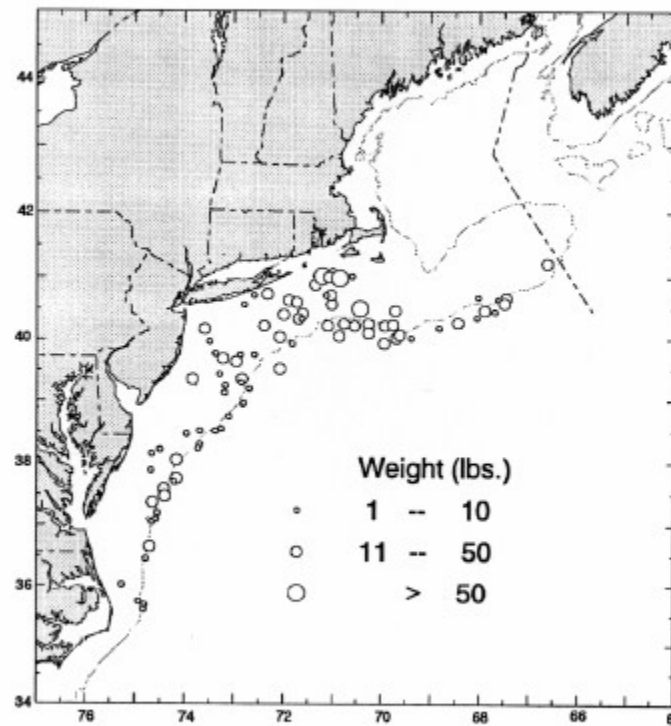
**LONGHORN SCULPIN**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



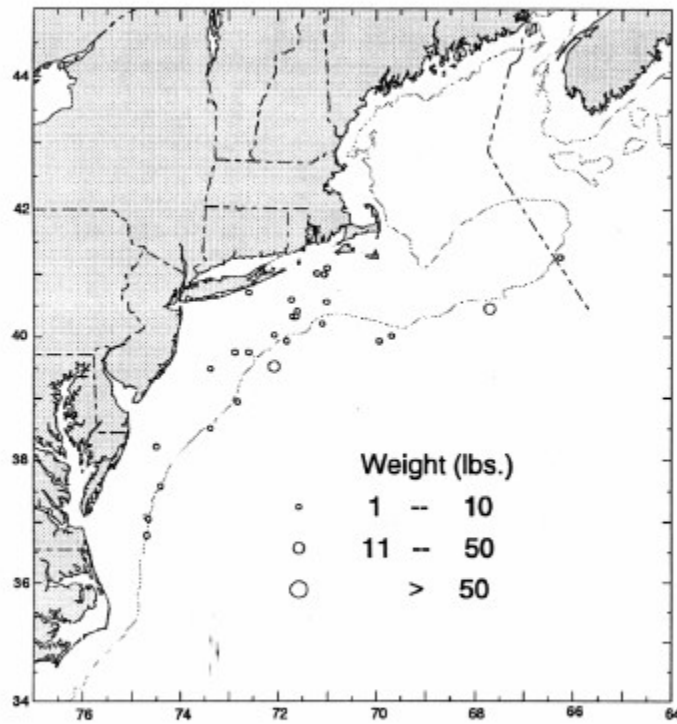
OCEAN POUT  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



GOOSEFISH  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



**AMERICAN LOBSTER**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999



**LONGFIN SQUID**  
NEFSC Bottom Trawl Survey  
FEB 01 - 24, 1999

