## DIGITAL SUPPLEMENT E

Model fit and model selection information.
Table E1. Model fit and selection statistics for non-zero count data in (a) Spring, (b) Summer, (c) Fall, (d) Winter. Maximum likelihood estimates of the best-fitting parameters for each of the top three candidate distributions are shown for each species. Model selection statistics (AICc and loglikelihood values) are also given. For each species, the top three models are shown ranked from lowest to highest AICc. The top-ranked model (lowest AIC) was used for subsequent analyses (see Tables 4 and 5 in main document). Species appear in the same order within each season as in Table 4 of the main document. [Pages 2-10]

Figures E1-E74. Model fit plots. Maximum likelihood model fits (lines) and observed probabilities (black dots) for non-zero count data for all modeled species. Fits are shown for the top four models, ranked in the legend from lowest to highest AICc. Plots are presented grouped by season, with species appearing in the same order within each season as in Table 4 of the main document: [Pages 11-88]

Figures E1-E19. Spring [Pages 12-30]
Figures E20-E37. Summer [Pages 32-49]
Figures E38-E59. Fall [Pages 51-72]
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Table E1a. Model fit and selection statistics for non-zero count data in Spring. Maximum likelihood estimates of the best-fitting parameters for each of the top three candidate distributions are shown for each species. Model selection statistics (AICc and log-likelihood values) are also given. For each species, the top three models are shown ranked from lowest to highest AICc. The top-ranked model (lowest AIC) was used for subsequent analyses (see Table 4a in main document).

| Species | Model | Rank | AICc | Parameter estimate(s) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Parameter 1 | Parameter 2, if applicable |
| herg | Discretized lognormal | 1 | 20473.0 | 0.138 | 1.857 |
|  | Zeta decay | 2 | 20644.9 | 1.422 | 0.006 |
|  | Yule | 3 | 20699.0 | 0.711 |  |
| noga | Discretized lognormal | 1 | 13042.5 | -0.367 | 1.870 |
|  | Yule | 2 | 13114.1 | 0.835 |  |
|  | Zeta decay | 3 | 13116.6 | 1.526 | 0.008 |
| gbbg | Yule | 1 | 10908.7 | 0.892 |  |
|  | Discretized lognormal | 2 | 10912.5 | -1.453 | 2.217 |
|  | Zeta decay | 3 | 10951.7 | 1.667 | 0.002 |
|  |  |  |  |  |  |
| nofu | Discretized lognormal | 1 | 8987.8 | -0.387 | 2.095 |
|  | Yule | 2 | 9047.6 | 0.722 |  |
|  | Zeta decay | 3 | 9050.3 | 1.497 | 0.003 |
|  |  |  |  |  |  |
| wisp | Discretized lognormal | 1 | 7004.0 | 0.009 | 1.683 |
|  | Yule | 2 | 7067.6 | 0.836 |  |
|  | Zeta decay | 3 | 7090.8 | 1.539 | 0.006 |
|  |  |  |  |  |  |
| colo | Discretized lognormal | 1 | 3151.4 | 0.027 | 1.104 |
|  | Zeta decay | 2 | 3161.3 | 1.254 | 0.157 |
|  | Logarithmic | 3 | 3166.0 | 0.803 |  |
|  |  |  |  |  |  |
| ltdu | Discretized lognormal | 1 | 6568.3 | 2.328 | 1.639 |
|  | Zeta decay | 2 | 6848.9 | 1.112 | 0.001 |
|  | Logarithmic | 3 | 6869.6 | 0.998 |  |
|  |  |  |  |  |  |
| sosh | Discretized lognormal | 1 | 2974.3 | -3.227 | 2.683 |
|  | Yule | 2 | 2974.5 | 0.937 |  |
|  | Zeta decay | 3 | 2976.8 | 1.705 | 0.002 |
|  |  |  |  |  |  |
| susc | Discretized lognormal | 1 | 5152.7 | 2.099 | 1.519 |
|  | Negative binomial | 2 | 5158.6 | 14.639 | 0.236 |
|  | Zeta decay | 3 | 5160.3 | 0.739 | 0.016 |
| blki | Discretized lognormal | 1 | 2201.0 | -0.779 | 1.716 |


|  | Zeta decay | 2 | 2202.0 | 1.579 | 0.029 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yule | 3 | 2208.2 | 1.086 |  |
| coei | Discretized lognormal | 1 | 4984.9 | 1.924 | 2.461 |
|  | Zeta decay | 2 | 5031.7 | 1.149 | 0.000 |
|  | Logarithmic | 3 | 5066.2 | 0.999 |  |
| grsh | Discretized lognormal | 1 | 2665.4 | 0.552 | 1.554 |
|  | Zeta decay | 2 | 2688.5 | 1.267 | 0.020 |
|  | Logarithmic | 3 | 2706.5 | 0.962 |  |
| wwsc | Discretized lognormal | 1 | 2645.7 | 0.762 | 1.589 |
|  | Zeta decay | 2 | 2663.0 | 1.186 | 0.019 |
|  | Logarithmic | 3 | 2671.2 | 0.970 |  |
|  |  |  |  |  |  |
| razo | Negative binomial | 1 | 2506.8 | 3.586 | 0.324 |
|  | Zeta decay | 2 | 2507.1 | 0.621 | 0.089 |
|  | Discretized lognormal | 3 | 2511.6 | 1.171 | 1.178 |
| lagu | Discretized lognormal | 1 | 1100.6 | -0.460 | 1.199 |
|  | Zeta decay | 2 | 1103.5 | 1.626 | 0.119 |
|  | Yule | 3 | 1104.0 | 1.687 |  |
| cote | Discretized lognormal | 1 | 1610.8 | 0.307 | 1.392 |
|  | Zeta decay | 2 | 1621.6 | 1.295 | 0.043 |
|  | Logarithmic | 3 | 1629.8 | 0.925 |  |
|  |  |  |  |  |  |
| reph | Discretized lognormal | 1 | 3629.3 | 2.580 | 2.324 |
|  | Zeta decay | 2 | 3681.9 | 1.092 | 0.000 |
|  | Yule | 3 | 3755.1 | 0.307 |  |
|  |  |  |  |  |  |
| rtlo | Zeta decay | 1 | 926.5 | 1.695 | 0.078 |
|  | Discretized lognormal | 2 | 927.2 | -0.846 | 1.419 |
|  | Yule | 3 | 927.3 | 1.548 |  |
|  |  |  |  |  |  |
| blsc | Discretized lognormal | 1 | 1541.1 | 1.141 | 1.619 |
|  | Logarithmic | 2 | 1542.3 | 0.979 |  |
|  | Zeta decay | 3 | 1544.2 | 1.030 | 0.020 |

Table E1b. Model fit and selection statistics for non-zero count data in Summer. Maximum likelihood estimates of the best-fitting parameters for each of the top three candidate distributions are shown for each species. Model selection statistics (AICc and log-likelihood values) are also given. For each species, the top three models are shown ranked from lowest to highest AICc. The top-ranked model (lowest AIC) was used for subsequent analyses (see Table $4 b$ in main document).

| Species | Model | Rank | AICc | Parameter estimate(s) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Parameter 1 | Parameter 2, if applicable |
| wisp | Discretized lognormal | 1 | 31045.0 | 0.304 | 1.875 |
|  | Zeta decay | 2 | 31332.9 | 1.392 | 0.005 |
|  | Yule | 3 | 31436.8 | 0.667 |  |
|  |  |  |  |  |  |
| grsh | Discretized lognormal | 1 | 22485.0 | 0.292 | 1.929 |
|  | Yule | 2 | 22760.5 | 0.650 |  |
|  | Zeta decay | 3 | 22859.8 | 1.488 | 0.001 |
|  |  |  |  |  |  |
| gbbg | Discretized lognormal | 1 | 8336.0 | -0.150 | 1.368 |
|  | Yule | 2 | 8401.2 | 1.164 |  |
|  | Zeta decay | 3 | 8451.4 | 1.670 | 0.021 |
|  |  |  |  |  |  |
| herg | Yule | 1 | 6930.4 | 1.217 |  |
|  | Discretized lognormal | 2 | 6934.8 | -0.938 | 1.670 |
|  | Zeta decay | 3 | 6977.0 | 1.816 | 0.008 |
|  |  |  |  |  |  |
| cosh | Discretized lognormal | 1 | 6353.0 | -0.921 | 1.848 |
|  | Yule | 2 | 6362.0 | 1.021 |  |
|  | Zeta decay | 3 | 6383.3 | 1.683 | 0.008 |
|  |  |  |  |  |  |
| sosh | Yule | 1 | 4852.5 | 0.958 |  |
|  | Zeta | 2 | 4857.8 | 0.783 |  |
|  | Zeta decay | 3 | 4859.6 | 1.781 | 0.000 |
|  |  |  |  |  |  |
| lesp | Discretized lognormal | 1 | 3283.8 | -0.648 | 1.642 |
|  | Yule | 2 | 3289.8 | 1.114 |  |
|  | Zeta decay | 3 | 3308.3 | 1.720 | 0.011 |
|  |  |  |  |  |  |
| cote | Discretized lognormal | 1 | 3021.2 | -0.626 | 1.784 |
|  | Yule | 2 | 3029.3 | 0.974 |  |
|  | Zeta decay | 3 | 3035.5 | 1.607 | 0.012 |
|  |  |  |  |  |  |
| noga | Yule | 1 | 1653.3 | 1.879 |  |
|  | Zeta decay | 2 | 1653.9 | 1.997 | 0.055 |
|  | Discretized lognormal | 3 | 1654.6 | -1.702 | 1.565 |
|  |  |  |  |  |  |
| lagu | Discretized lognormal | 1 | 2075.7 | -0.074 | 1.334 |


|  | Zeta decay | 2 | 2087.4 | 1.447 | 0.060 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Yule | 3 | 2097.3 | 1.151 |  |
| nofu | Discretized lognormal | 1 | 2047.6 | -0.848 | 1.852 |
|  | Yule | 2 | 2047.8 | 0.996 |  |
|  | Zeta decay | 3 | 2060.3 | 1.693 | 0.005 |
|  |  |  |  |  |  |
| lddu | Discretized lognormal | 1 | 3559.4 | 1.771 | 1.545 |
|  | Negative binomial | 2 | 3580.9 | 7.265 | 0.112 |
|  | Zeta decay | 3 | 3582.4 | 0.879 | 0.015 |
| susc | Negative binomial | 1 | 3128.7 | 8.166 | 0.187 |
|  | Zeta decay | 2 | 3128.9 | 0.785 | 0.023 |
|  | Discretized lognormal | 3 | 3139.9 | 1.710 | 1.530 |
|  |  |  |  |  |  |
| coei | Discretized lognormal | 1 | 3101.1 | 1.642 | 2.525 |
|  | Zeta decay | 2 | 3102.4 | 1.115 | 0.001 |
|  | Logarithmic | 3 | 3111.5 | 0.998 |  |
|  |  |  |  |  |  |
| colo | Geometric | 1 | 734.4 | 0.621 |  |
|  | Discretized lognormal | 2 | 735.3 | 0.103 | 0.686 |
|  | Zeta decay | 3 | 736.1 | 0.219 | 0.871 |
|  |  |  |  |  |  |
| aush | Yule | 1 | 987.3 | 1.442 |  |
|  | Discretized lognormal | 2 | 990.8 | -1.330 | 1.653 |
|  | Zeta decay | 3 | 992.8 | 1.887 | 0.020 |
|  |  |  |  |  |  |
| wwsc | Logarithmic | 1 | 1551.5 | 0.964 |  |
|  | Zeta decay | 2 | 1551.8 | 1.109 | 0.029 |
|  | Discretized lognormal | 3 | 1552.0 | 0.717 | 1.584 |
|  |  |  |  |  |  |
| razo | Discretized lognormal | 1 | 1398.6 | 1.023 | 1.326 |
|  | Logarithmic | 2 | 1404.2 | 0.959 |  |
|  | Negative binomial | 3 | 1405.4 | 1.688 | 0.088 |

Table E1c. Model fit and selection statistics for non-zero count data in Fall. Maximum likelihood estimates of the best-fitting parameters for each of the top three candidate distributions are shown for each species. Model selection statistics (AICc and log-likelihood values) are also given. For each species, the top three models are shown ranked from lowest to highest AICc. The top-ranked model (lowest AIC) was used for subsequent analyses (see Table 4 c in main document).

| Species | Model | Rank | AICc | Parameter estimate(s) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Parameter 1 | Parameter 2, if applicable |
| herg | Discretized lognormal | 1 | 25829.0 | 0.298 | 1.655 |
|  | Zeta decay | 2 | 26099.0 | 1.403 | 0.011 |
|  | Yule | 3 | 26194.8 | 0.762 |  |
|  |  |  |  |  |  |
| grsh | Discretized lognormal | 1 | 26166.9 | 1.168 | 1.623 |
|  | Zeta decay | 2 | 26509.0 | 1.145 | 0.011 |
|  | Logarithmic | 3 | 26584.9 | 0.984 |  |
|  |  |  |  |  |  |
| gbbg | Discretized lognormal | 1 | 17027.0 | -0.315 | 1.819 |
|  | Yule | 2 | 17124.4 | 0.851 |  |
|  | Zeta decay | 3 | 17144.0 | 1.541 | 0.007 |
|  |  |  |  |  |  |
| noga | Discretized lognormal | 1 | 10575.7 | -0.143 | 1.481 |
|  | Zeta decay | 2 | 10648.1 | 1.515 | 0.030 |
|  | Yule | 3 | 10667.2 | 1.041 |  |
|  |  |  |  |  |  |
| blki | Discretized lognormal | 1 | 7584.7 | 0.036 | 1.583 |
|  | Zeta decay | 2 | 7654.8 | 1.481 | 0.016 |
|  | Yule | 3 | 7663.0 | 0.888 |  |
|  |  |  |  |  |  |
| cosh | Discretized lognormal | 1 | 5178.4 | -0.449 | 1.727 |
|  | Zeta decay | 2 | 5203.1 | 1.560 | 0.015 |
|  | Yule | 3 | 5203.6 | 0.956 |  |
|  |  |  |  |  |  |
| nofu | Discretized lognormal | 1 | 4855.0 | -0.347 | 1.657 |
|  | Yule | 2 | 4885.8 | 0.974 |  |
|  | Zeta decay | 3 | 4905.2 | 1.631 | 0.009 |
|  |  |  |  |  |  |
| wisp | Yule | 1 | 3312.4 | 1.034 |  |
|  | Discretized lognormal | 2 | 3316.1 | -1.051 | 1.888 |
|  | Zeta decay | 3 | 3330.9 | 1.719 | 0.005 |
|  |  |  |  |  |  |
| colo | Discretized lognormal | 1 | 2130.0 | -0.081 | 1.018 |
|  | Zeta decay | 2 | 2133.5 | 1.249 | 0.232 |
|  | Logarithmic | 3 | 2134.7 | 0.736 |  |
|  |  |  |  |  |  |
| ltdu | Discretized lognormal | 1 | 5898.6 | 2.021 | 1.556 |


|  | Negative binomial | 2 | 5904.9 | 12.954 | 0.195 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Zeta decay | 3 | 5907.7 | 0.785 | 0.015 |
| lagu | Discretized lognormal | 1 | 2814.7 | 0.097 | 1.375 |
|  | Zeta decay | 2 | 2825.6 | 1.340 | 0.056 |
|  | Logarithmic | 3 | 2843.7 | 0.900 |  |
| susc | Negative binomial | 1 | 5942.7 | 23.612 | 0.263 |
|  | Zeta decay | 2 | 5943.8 | 0.713 | 0.011 |
|  | Discretized lognormal | 3 | 5961.7 | 2.412 | 1.620 |
| coei | Zeta decay | 1 | 5037.9 | 1.075 | 0.001 |
|  | Discretized lognormal | 2 | 5042.3 | 1.838 | 2.471 |
|  | Logarithmic | 3 | 5043.0 | 0.998 |  |
|  |  |  |  |  |  |
| wwsc | Discretized lognormal | 1 | 3502.5 | 1.240 | 1.647 |
|  | Logarithmic | 2 | 3513.8 | 0.983 |  |
|  | Zeta decay | 3 | 3515.2 | 1.037 | 0.016 |
|  |  |  |  |  |  |
| poja | Logarithmic | 1 | 878.8 | 0.467 |  |
|  | Zeta decay | 2 | 880.8 | 0.983 | 0.770 |
|  | Discretized lognormal | 3 | 883.1 | -0.280 | 0.758 |
|  |  |  |  |  |  |
| cote | Discretized lognormal | 1 | 2250.0 | -0.044 | 1.898 |
|  | Zeta decay | 2 | 2251.5 | 1.368 | 0.012 |
|  | Yule | 3 | 2267.8 | 0.736 |  |
|  |  |  |  |  |  |
| razo | Discretized lognormal | 1 | 1931.5 | 1.322 | 1.216 |
|  | Negative binomial | 2 | 1946.8 | 4.062 | 0.232 |
|  | Zeta decay | 3 | 1948.2 | 0.737 | 0.057 |
|  |  |  |  |  |  |
| blsc | Discretized lognormal | 1 | 2108.4 | 1.278 | 1.679 |
|  | Logarithmic | 2 | 2120.1 | 0.985 |  |
|  | Zeta decay | 3 | 2120.9 | 1.065 | 0.012 |
|  |  |  |  |  |  |
| rtlo | Zeta decay | 1 | 978.5 | 1.692 | 0.033 |
|  | Discretized lognormal | 2 | 981.7 | -2.144 | 2.039 |
|  | Yule | 3 | 983.0 | 1.238 |  |
|  |  |  |  |  |  |
| dove | Discretized lognormal | 1 | 1412.0 | 1.142 | 1.532 |
|  | Logarithmic | 2 | 1416.5 | 0.976 |  |
|  | Zeta decay | 3 | 1418.5 | 1.018 | 0.023 |
|  |  |  |  |  |  |
| lesp | Discretized lognormal | 1 | 655.4 | -0.644 | 1.334 |


|  | Yule | 2 | 655.4 | 1.560 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Zeta decay | 3 | 656.2 | 1.671 |  |
|  |  |  |  | 0.084 |  |
| aush | Yule | 1 | 747.7 | 1.193 |  |
|  | Discretized lognormal | 2 | 747.9 | -0.855 |  |
|  | Zeta decay | 3 | 751.9 | 1.732 |  |

Table E1d. Model fit and selection statistics for non-zero count data in Winter. Maximum likelihood estimates of the best-fitting parameters for each of the top three candidate distributions are shown for each species. Model selection statistics (AICc and log-likelihood values) are also given. For each species, the top three models are shown ranked from lowest to highest AICc. The top-ranked model (lowest AIC) was used for subsequent analyses (see Table 4d in main document).

| Species | Model | Rank | AICc | Parameter estimate(s) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Parameter 1 | Parameter 2, if applicable |
| herg | Discretized lognormal | 1 | 13107.2 | -0.455 | 1.874 |
|  | Yule | 2 | 13166.1 | 0.857 |  |
|  | Zeta decay | 3 | 13206.0 | 1.582 | 0.005 |
|  |  |  |  |  |  |
| blki | Discretized lognormal | 1 | 14747.3 | 0.595 | 1.591 |
|  | Zeta decay | 2 | 14964.2 | 1.346 | 0.010 |
|  | Yule | 3 | 15045.1 | 0.705 |  |
|  |  |  |  |  |  |
| gbbg | Yule | 1 | 11283.1 | 0.866 |  |
|  | Discretized lognormal | 2 | 11303.4 | -1.815 | 2.386 |
|  | Zeta decay | 3 | 11330.8 | 1.665 | 0.001 |
|  |  |  |  |  |  |
| noga | Discretized lognormal | 1 | 8098.9 | -0.738 | 1.844 |
|  | Yule | 2 | 8113.8 | 0.966 |  |
|  | Zeta decay | 3 | 8163.5 | 1.691 | 0.003 |
|  |  |  |  |  |  |
| nofu | Discretized lognormal | 1 | 7452.8 | 0.659 | 1.742 |
|  | Zeta decay | 2 | 7546.9 | 1.322 | 0.007 |
|  | Yule | 3 | 7596.3 | 0.635 |  |
|  |  |  |  |  |  |
| lddu | Discretized lognormal | 1 | 11186.1 | 2.559 | 1.492 |
|  | Negative binomial | 2 | 11485.2 | 26.140 | 0.155 |
|  | Zeta decay | 3 | 11495.9 | 0.842 | 0.006 |
|  |  |  |  |  |  |
| susc | Discretized lognormal | 1 | 9014.7 | 2.647 | 1.497 |
|  | Negative binomial | 2 | 9078.6 | 30.537 | 0.309 |
|  | Zeta decay | 3 | 9084.8 | 0.669 | 0.010 |
|  |  |  |  |  |  |
| coei | Discretized lognormal | 1 | 8136.6 | 1.847 | 2.648 |
|  | Zeta decay | 2 | 8182.3 | 1.143 | 0.000 |
|  | Yule | 3 | 8315.5 | 0.336 | NA |
|  |  |  |  |  |  |
| razo | Discretized lognormal | 1 | 5013.1 | 1.310 | 1.254 |
|  | Negative binomial | 2 | 5023.7 | 4.188 | 0.244 |
|  | Zeta decay | 3 | 5025.4 | 0.716 | 0.058 |
|  |  |  |  |  |  |
| wwsc | Discretized lognormal | 1 | 5489.1 | 1.334 | 1.626 |


|  | Zeta decay | 2 | 5545.7 | 1.070 | 0.012 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Logarithmic | 3 | 5547.4 | 0.986 |  |
| colo | Discretized lognormal | 1 | 2261.8 | -0.024 | 0.990 |
|  | Zeta decay | 2 | 2278.3 | 1.315 | 0.206 |
|  | Logarithmic | 3 | 2282.0 | 0.742 |  |
|  |  |  |  |  |  |
| dove | Discretized lognormal | 1 | 2067.4 | 0.207 | 1.627 |
|  | Zeta decay | 2 | 2076.7 | 1.346 | 0.021 |
|  | Yule | 3 | 2093.1 | 0.802 |  |
| blsc | Zeta decay | 1 | 2579.0 | 1.145 | 0.011 |
|  | Logarithmic | 2 | 2584.3 | 0.983 |  |
|  | Negative binomial | 3 | 2587.7 | 0.602 | 0.010 |
|  |  |  |  |  |  |
| bogu | Yule | 1 | 1627.6 | 0.854 |  |
|  | Discretized lognormal | 2 | 1627.8 | -2.297 | 2.547 |
|  | Zeta decay | 3 | 1628.1 | 1.614 | 0.004 |
|  |  |  |  |  |  |
| rtlo | Yule | 1 | 855.1 | 1.928 |  |
|  | Zeta decay | 2 | 855.6 | 1.854 | 0.101 |
|  | Discretized lognormal | 3 | 856.1 | -1.109 | 1.360 |

Figures E1 to E74. Model fit plots. Maximum likelihood model fits (lines) and observed probabilities (black dots) for non-zero count data for all modeled species. Fits are shown for the top four models, ranked in the legend from lowest to highest AICc.

## Figures E1 to E19. Model fit plots for SPRING season:

## herg



## noga



## gbbg



## nofu



## wisp



## colo



## Itdu



## sosh



## SUSC



## blki



## coei



## grsh



## WWSC



## razo



## lagu



## cote



## reph


rtlo

blsc


Figures E1 to E74. Model fit plots. Maximum likelihood model fits (lines) and observed probabilities (black dots) for non-zero count data for all modeled species. Fits are shown for the top four models, ranked in the legend from lowest to highest AICc.

## Figures E20 to E37. Model fit plots for SUMMER season:

## wisp



## grsh



## gbbg



## herg



## cosh



## sosh



## lesp



## cote


noga

lagu


## nofu



## Itdu



## SUSC



## coei



## colo



## aush



## WWSC



## razo



Figures E1 to E74. Model fit plots. Maximum likelihood model fits (lines) and observed probabilities (black dots) for non-zero count data for all modeled species. Fits are shown for the top four models, ranked in the legend from lowest to highest AICc.

## Figures E38 to E59. Model fit plots for FALL season:

## herg



## grsh



## gbbg


noga


## blki



## cosh



## nofu



## wisp


colo


## Itdu



## lagu



## SUSC



## coei



## WWSC



## poja



## cote



## razo


blsc

rtlo


## dove



## lesp



## aush



Figures E1 to E74. Model fit plots. Maximum likelihood model fits (lines) and observed probabilities (black dots) for non-zero count data for all modeled species. Fits are shown for the top four models, ranked in the legend from lowest to highest AICc.

Figures E60 to E74. Model fit plots for WINTER season:

## herg



## blki



## gbbg



## noga



## nofu



## Itdu



## SUSC


coei


## razo



## WWSC



## colo



## dove



## blsc



## bogu


rtlo


