**S4 Table. Results of multiple regression analyses for predicting species richness *f*(*SR*) for the endemic/forest specialist species of non-volant small mammals in Atlantic Forest remnants using 18 models that included both area of the forest remnants (*A*) and sampling effort (*S*) of the field studies.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Model Name** | **Model** | **Adj R2** | **F Stat** | **β0 (Intercept)** | **β1 (Area)** | **β2 (Sampling)** | **β3 (Area:Sampling)** |
| AFTrilm1 | *f*(*SR*) = *β0* + *β1A + β2SE*  | 0.022 | 1.727*2,64* | 3.267\*\*\* | 0.000009 | 0.00006 | - |
| AFTrilm2 | log *f*(*SR*) = *β0 + β1*log*A* + *β2*log*SE*  | 0.029 | 1.975*2,64* | -0.01 | 0.0391 | 0.0997 | - |
| AFTrilm3 | *f*(*SR*) = *β0*+ *β1*log*A* + *β2SE*  | 0.081 | 3.894*2,64*\* | -0.79 | 0.0977 | 0.5007\* | - |
| AFTrilm4 | log *f*(*SR*) = *β0 + β1*log*A* + *β2SE*  | 0.024 | 1.82*2,64* | 0.66\* | 0.0397 | 0.00001 | - |
| AFTrilm5 | *f*(*SR*) = *β0+ β1*log*A* + *β2SE*  | 0.040 | 2.374*2,64* | 2.52\*\* | 0.1354 | 0.00004 | - |
| AFTrilm6 | log *f*(*SR)* = *β0 + β1A* + *β2*log*SE*  | 0.017 | 1.559*2,64* | 0.11 | 0.000003 | 0.1138 | - |
| AFTrilm7 | *f*(*SR*) = *β0* + *β1A + β2*log*SE*  | 0.069 | 3.46*2,64*\* | -0.75 | 0.000002 | 0.5771\* | - |
| AFTrilm8 | log *f(SR) =* *β0 + β3*(log*A*)(log*SE*) | 0.050 | 4.445*1,65*\* | 0.6016\*\* | - | - | 0.0077\* |
| AFTrilm9 | *f(SR) =* *β0 + β3*(log*A*)(log*SE*) | 0.010 | 1.693*1,65* | 0.9277\*\*\* | - | - | 0.0000007 |
| AFTrilm10 | log *f(SR) =* *β0 + β3*(*A*)(log*SE*) | 0.023 | 2.538*1,65* | 0.9057\*\*\* | - | - | 0.000002 |
| AFTrilm11 |  *f(SR) =* *β0 + β3*(*A*)(log*SE*) | 0.079 | 6.629*1,65* | 2.2694\*\*\* | - | - | 0.02663\* |
| AFTrilm12 | log *f(SR) =* *β0 + β3*(log*A*)(*SE*) | 0.018 | 2.201*1,65* | 3.41\*\*\* | - | - | 0.000002 |
| AFTrilm13 |  *f(SR) =* *β0 + β3*(log*A*)(*SE*) | 0.030 | 3.047*1,65* | 3.349\*\*\* | - | - | 0.000006 |
| AFTrilm14 |  *f(SR) =* *β0 + β3*(*A*)(*SE*) | -0.007 | 0.535*1,65* | 3.539\*\*\* | - | - | 0.0000000005 |
| AFTrilm16 | *f*(*SR*) = *β0 + β1*log*A* + *β2*log*SE* + *β3*(*logA*)(*logSE*) | 0.076 | 2.807*3,63*\* | 2.65 | -0.3584 | 0.0280 | 0.0609 |
| AFTrilm17 | log *f*(*SR*) = *β0 + β1*log*A* *+ β2SE + β3*(*logA*)(*SE*) | 0.014 | 1.305*3,63* | 0.56 | 0.0506 | 0.00006 | -0.000005 |
| AFTrilm18 | *f*(*SR*) = *β0 + β1*log*A + β2SE* + *β3*(*logA*)(*SE*) | 0.038 | 1.859*3,63* | 2.04\* | 0.1861 | 0.0003 | -0.00002 |
| AFTrilm19 | log *f*(*SR*) = *β0 + β1A* + *β2*log*SE* + *β3*(*A*)(*logSE*) | 0.005 | 1.109*3,63* | -0.04 | 0.00003 | 0.1322 | -0.000003 |
| AFTrilm20 | *f*(*SR*) = *β0 + β1A + β2*log*SE* + *β3*(*A*)(*logSE*) | 0.068 | 0.068*3,63* | -1.56 | 0.0001 | 0.6767\* | -0.00001 |
| AFTrilm21 | *f*(*SR*) = *β0 + β1A + β2SE* + *β3*(*A*)(*SE*) | 0.075 | 2.771*3,63* | 2.926\*\*\* | 0.00005 | 0.0001\* | -0.000000003\* |
| AFTrilm15 | log *f*(*SR*) = *β0 + β1*log*A + β2*log*SE + β3*(*logA*)(*logSE*) | 0.041 | 1.945*3,63* | 1.99 | -0.2272 | -0.1762 | 0.0356 |
| AFTrilm22 | log *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*logSE*) | 0.047 | 0.047*2,64*\* | 0.74\*\* | -0.0895 | - | 0.0165 |
| AFTrilm23 | *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*logSE*) | 0.090 | 4.276*2,64*\* | 2.85\*\*\* | -0.3803 | - | 0.06398\* |
| AFTrilm24 | log *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*SE*) | 0.021 | 1.716*2,64* | 0.68\* | 0.0391 | - | 0.000001 |
| AFTrilm25 | *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*SE*) | 0.035 | 2.2*2,64* | 2.57\*\* | 0.1367 | - | 0.000004 |
| AFTrilm26 | log *f*(*SR*) = *β0 + β1A + β3*(*A*)(*logSE*) | -0.005 | 0.852*2,64* | 0.92\*\*\* | 0.000009 | - | -0.0000002 |
| AFTrilm27 | *f*(*SR*) = *β0 + β1A + β3*(*A*)(*logSE*) | 0.004 | 1.13*2,64* | 3.38\*\*\* | 0.00004 | - | -0.000002 |
| AFTrilm28 | *f*(*SR*) = *β0 + β1A + β3*(*A*)(*SE*) | 0.020 | 1.669*2,65* | 3.3270 | 0.00005 | - | -0.000000001 |

P-value significance is identified as follows ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05.