**S2 Table. Results of multiple regression analyses for predicting species richness *f*(*SR*) for the entire non-volant small mammal assemblage in Atlantic Forest remnants using 18 models that included both area of the forest remnants (*A*) and sampling effort (*SE*) 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*  | 0.338 | 17.85*2,64*\*\*\* | 5.777\*\*\* | -0.000005 | 0.0003\*\*\* | - |
| AFTrilm2 | log *f*(*SR*) = *β0 + β1*log*A* + *β2*log*SE*  | 0.390 | 22.37*2,64*\*\*\* | -0.29 | -0.0129 | 0.2928\*\*\* | - |
| AFTrilm3 | *f*(*SR*) = *β0*+ *β1*log*A* + *β2SE*  | 0.430 | 26.13*2,64*\*\*\* | -9.02\*\*\* | 0.0536 | 2.1221\*\*\* | - |
| AFTrilm4 | log *f*(*SR*) = *β0 + β1*log*A* + *β2SE*  | 0.290 | 14.48*2,64*\*\*\* | 1.69\*\*\* | -0.0096 | 0.00004\*\*\* | - |
| AFTrilm5 | *f*(*SR*) = *β0+ β1*log*A* + *β2SE*  | 0.340 | 17.99*2,64*\*\*\* | 5.36\*\*\* | 0.0732 | 0.0003\*\*\* | - |
| AFTrilm6 | log *f*(*SR)* = *β0 + β1A* + *β2*log*SE*  | 0.390 | 22.07*2,64*\*\*\* | -0.32 | -0.0000008 | 0.2864\*\*\*  | - |
| AFTrilm7 | *f*(*SR*) = *β0* + *β1A + β2*log*SE*  | 0.430 | 26.04*2,64*\*\*\* | -8.85\*\* | 0.000004 | 2.14\*\*\* | - |
| AFTrilm8 | log *f(SR) =* *β0 + β3*(log*A*)(log*SE*) | 0.158 | 13.36*1,65*\*\*\* | 1.409\*\*\* | - | - | 0.0083\*\*\* |
| AFTrilm9 | *f(SR) =* *β0 + β3*(log*A*)(log*SE*) | 0.115 | 9.70*1,65*\*\*\* | 1.736\*\*\* | - | - | 0.000001\*\* |
| AFTrilm10 | log *f(SR) =* *β0 + β3*(*A*)(log*SE*) | 0.256 | 23.70*1,65*\*\*\* | 1.681\*\*\* | - | - | 0.000003\*\*\* |
| AFTrilm11 |  *f(SR) =* *β0 + β3*(*A*)(log*SE*) | 0.246 | 22.52*1,65*\*\*\* | 3.482\*\*\* | - | - | 0.0754\*\*\* |
| AFTrilm12 | log *f(SR) =* *β0 + β3*(log*A*)(*SE*) | 0.153 | 12.94*1,65*\*\*\* | 6.52\*\*\* | - | - | 0.000009\*\*\* |
| AFTrilm13 |  *f(SR) =* *β0 + β3*(log*A*)(*SE*) | 0.312 | 30.97*1,65*\*\*\* | 6.096\*\*\* | - | - | 0.00003\*\*\* |
| AFTrilm14 |  *f(SR) =* *β0 + β3*(*A*)(*SE*) | 0.147 | 12.36*1,65*\*\*\* | 6.772\*\*\* | - | - | 0.00000000\*\*\* |
| AFTrilm15 | log *f*(*SR*) = *β0 + β1*log*A + β2*log*SE + β3*(*logA*)(*logSE*) | 0.390 | 15.32*3,63*\*\*\* | 0.54 | -0.1229 | 0.1788 | 0.0147 |
| AFTrilm16 | *f*(*SR*) = *β0 + β1*log*A* + *β2*log*SE* + *β3*(*logA*)(*logSE*) | 0.440 | 18.583*,63*\*\*\* | -0.53 | -1.0730 | 0.9546 | 0.1505 |
| AFTrilm17 | log *f*(*SR*) = *β0 + β1*log*A* *+ β2SE + β3*(*logA*)(*SE*) | 0.320 | 11.56*3,63*\*\*\* | 1.49\*\*\* | 0.0123 | 0.0001\*\* | -0.00001\* |
| AFTrilm18 | *f*(*SR*) = *β0 + β1*log*A + β2SE* + *β3*(*logA*)(*SE*) | 0.360 | 13.6*3,63*\*\*\* | 4.03\*\* | 0.2147 | 0.0009\*\* | -0.00006 |
| AFTrilm19 | log *f*(*SR*) = *β0 + β1A* + *β2*log*SE* + *β3*(*A*)(*logSE*) | 0.390 | 14.84*3,63*\*\*\* | -0.20 | -0.00002  | 0.271\*\*\* | 0.000002 |
| AFTrilm20 | *f*(*SR*) = *β0 + β1A + β2*log*SE* + *β3*(*A*)(*logSE*) | 0.430 | 17.46*3,63*\*\*\* | -7.98\*\* | -0.0001 | 2.032\*\*\* | 0.00002 |
| AFTrilm21 | *f*(*SR*) = *β0 + β1A + β2SE* + *β3*(*A*)(*SE*) | 0.356 | 13.16*3,63*\*\*\* | 5.403\*\*\* | 0.00005 | 0.0004\*\*\* | 0.0000000 |
| AFTrilm22 | log *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*logSE*) | 0.380 | 21.36*2,64*\*\*\* | 1.81\*\*\* | -0.2627\*\*\* | - | 0.0341\*\*\*  |
| AFTrilm23 | *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*logSE*) | 0.440 | 27.07*2,64*\*\*\* | 6.27\*\*\* | -1.819\*\*\* | - | 0.2540\*\*\* |
| AFTrilm24 | log *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*SE*) | 0.250 | 11.87*2,64*\*\*\* | 1.75\*\*\* | -0.0130 | - | 0.000004\*\*\* |
| AFTrilm25 | *f*(*SR*) = *β0 + β1*log*A* + *β3*(*logA*)(*SE*) | 0.300 | 15.3*2,64*\*\*\* | 5.84\*\*\* | 0.0451 | - | 0.00003\*\*\* |
| AFTrilm26 | log *f*(*SR*) = *β0 + β1A + β3*(*A*)(*logSE*) | 0.160 | 7.063*2,64*\*\* | 1.78\*\*\* | -0.00006\* | - | 0.000007\* |
| AFTrilm27 | *f*(*SR*) = *β0 + β1A + β3*(*A*)(*logSE*) | 0.190 | 8.759*2,64*\*\*\* | 6.84\*\*\* | -0.00043\* | - | 0.00005\* |
| AFTrilm28 | *f*(*SR*) = *β0 + β1A + β3*(*A*)(*SE*) | 0.140 | 6.353*2,64*\*\*\* | 6.637\*\*\* | 0.00003 | - | 0.000000002 |

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