Supplementary S4. Variance partition analysis of ticks (Ixodida) associated with small-mammals in woodland patches of a savanna region in Brazil. Composition, Richness and Abundance were considered independently as response variable and host identity (identity), use of vertical stratum (stratification), host body mass (mass) and seasonality of captures (seasonality) were considered as predictors. The p value was obtained by 1000 permutation. Significant results are in bold. Df: Degrees of freedom; R2: R-squared; Adj. R²: Ajusted R-squared; F: *F*-statistic P: p-value.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Composition** | | | | |  | **Richness** | | | | |  | **Abundance** | | | | |
|  | **Df** | **R²** | **Adj. R²** | **F** | **P** |  | **Df** | **R²** | **Adj. R²** | **F** | **P** |  | **Df** | **R²** | **Adj. R²** | **F** | **P** |
| Identity | 14 | 0.172 | 0.161 | 15.091 | **<0.005** |  | 14 | 0.415 | 0.407 | 51.342 | **<0.005** |  | 14 | 0.398 | 0.390 | 24.494 | **<0.005** |
| Stratification | 1 | 0.022 | 0.021 | 23.637 | **<0.005** |  | 1 | 0.117 | 0.116 | 136.35 | **<0.005** |  | 1 | 0.102 | 0.101 | 65.427 | **<0.005** |
| Mass | 1 | 0.087 | 0.086 | 97.653 | **<0.005** |  | 1 | 0.317 | 0.316 | 476.32 | **<0.005** |  | 1 | 0.332 | 0.331 | 400.55 | **<0.005** |
| Seasonality | 1 | 0.004 | 0.003 | 4.137 | **0.010** |  | 1 | 0.014 | 0.013 | 14.82 | **<0.005** |  | 1 | 0.011 | 0.010 | 60.929 | **0.015** |
| Identity + Stratification | 15 | 0.174 | 0.162 | 14.234 | **<0.005** |  | 15 | 0.421 | 0.413 | 49.229 | **<0.005** |  | 15 | 0.408 | 0.400 | 23.862 | **<0.005** |
| Identity + Mass | 15 | 0.190 | 0.178 | 15.850 | **<0.005** |  | 15 | 0.450 | 0.442 | 55.374 | **<0.005** |  | 15 | 0.467 | 0.459 | 38.948 | **<0.005** |
| Identity + Seasonality | 15 | 0.177 | 0.165 | 14.537 | **<0.005** |  | 15 | 0.441 | 0.432 | 53.251 | **<0.005** |  | 15 | 0.418 | 0.410 | 24.500 | **<0.005** |
| Stratification + Mass | 2 | 0.089 | 0.088 | 50.407 | **<0.005** |  | 2 | 0.320 | 0.319 | 241.76 | **<0.005** |  | 2 | 0.332 | 0.331 | 201.31 | **<0.005** |
| Stratification + Seasonality | 2 | 0.027 | 0.025 | 14.412 | **<0.005** |  | 2 | 0.138 | 0.136 | 81.91 | **<0.005** |  | 2 | 0.118 | 0.116 | 38.419 | **<0.005** |
| Mass + Seasonality | 2 | 0.091 | 0.089 | 51.182 | **<0.005** |  | 2 | 0.330 | 0.329 | 253.12 | **<0.005** |  | 2 | 0.342 | 0.341 | 206.35 | **<0.005** |
| Identity + Stratification + Mass | 16 | 0.190 | 0.177 | 14.883 | **<0.005** |  | 16 | 0.453 | 0.444 | 52.429 | **<0.005** |  | 16 | 0.471 | 0.462 | 36.687 | **<0.005** |
| Identity + Stratification + Seasonality | 16 | 0.178 | 0.165 | 13.732 | **<0.005** |  | 16 | 0.445 | 0.437 | 50.847 | **<0.005** |  | 16 | 0.426 | 0.417 | 23.743 | **<0.005** |
| Identity + Mass + Seasonality | 16 | 0.192 | 0.180 | 15.089 | **<0.005** |  | 16 | 0.468 | 0.460 | 55.741 | **<0.005** |  | 16 | 0.478 | 0.469 | 37.147 | **<0.005** |
| Stratification + Mass + Seasonality | 3 | 0.093 | 0.090 | 35.087 | **<0.005** |  | 3 | 0.335 | 0.333 | 172.22 | **<0.005** |  | 3 | 0.343 | 0.341 | 137.98 | **<0.005** |
| All | 17 | 0.193 | 0.179 | 14.216 | **<0.005** |  | 17 | 0.470 | 0.461 | 52.817 | **<0.005** |  | 17 | 0.480 | 0.472 | 35.086 | **<0.005** |
| Only identity | 14 |  | 0.089 | 8.930 | **<0.005** |  | 14 |  | 0.128 | 18.446 | **<0.005** |  | 14 |  | 0.130 | 9.576 | **<0.005** |
| Only stratification | 1 |  | -0.001 | 0.383 | 0.785 |  | 1 |  | 0.001 | 3.681 | **0.050** |  | 1 |  | 0.002 | 10.699 | 0.225 |
| Only mass | 1 |  | 0.014 | 18.220 | **<0.005** |  | 1 |  | 0.025 | 47.222 | **<0.005** |  | 1 |  | 0.054 | 157.78 | **<0.005** |
| Only seasonality | 1 |  | 0.002 | 3.057 | 0.055 |  | 1 |  | 0.017 | 32.739 | **<0.005** |  | 1 |  | 0.009 | 60.364 | **0.020** |