**Living in the edge: Large terrestrial mammal and bird species traits and the ability to cope with extreme environmental conditions and human disturbance in a tropical dry forest in Colombia.**

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**Short title: Large mammal and bird occupancy in a dry landscape.**

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**Key words**

Species traits, occupancy modeling, camera traps, dryland, human-made disturbance, extreme environment.

**Supplementary material**

**S1:** A list of the species included in the study with the values of the two life-history traits that were used in the analyses.

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| **Species** | **Body mass (g)** | **Carnivory (%)** |
| *Aramides cajaneus* | 432.5 | 20 |
| *Cerdocyon thous* | 5741.66 | 40 |
| *Colinus cristatus* | 136.5 | 0 |
| *Conepatus semistriatus* | 1997.34 | 10 |
| *Cuniculus paca* | 8172.55 | 0 |
| *Dasypus novemcinctus* | 3949.01 | 0 |
| *Didelphis marsupialis* | 1134.75 | 30 |
| *Eira barbara* | 4134.99 | 90 |
| *Galictis vittata* | 3200 | 60 |
| *Leopardus pardalis* | 11880 | 100 |
| *Mazama americana* | 20546.86 | 0 |
| *Ortalis columbiana* | 550 | 0 |
| *Pecari tajacu* | 21133.69 | 20 |
| *Procyon cancrivorus* | 6931.72 | 30 |
| *Puma yagouaroundi* | 6875 | 80 |
| *Sylvilagus brasiliensis* | 986.74 | 0 |
| *Tamandua mexicana* | 4178.51 | 0 |

**S2:** Mean estimates of covariates on species occupancy probability and its 95% Bayesian Credible Intervals (BIC).

|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **Mean effect** | **95% BCI** | **Variable** |
| *Aramides cajaneus* | -0.07 | -0.74 to 0.58 | %Forest |
| *Cerdocyon thous* | 0.54 | -0.15 to 1.27 | %Forest |
| *Colinus cristatus* | 0.02 | -0.91 to 0.85 | %Forest |
| *Conepatus semistriatus* | 0.53 | -0.49 to 1.6 | %Forest |
| *Cuniculus paca* | -0.05 | -1.16 to 0.93 | %Forest |
| *Dasypus novemcinctus* | -0.24 | -1.5 to 1.04 | %Forest |
| *Didelphis marsupialis* | -0.10 | -0.99 to 0.68 | %Forest |
| *Eira barbara* | 0.33 | -0.65 to 1.29 | %Forest |
| *Galictis vittata* | 0.72 | -0.31 to 1.87 | %Forest |
| *Leopardus pardalis* | 0.81 | -0.07 to 1.79 | %Forest |
| *Mazama sp* | **1.80** | **0.74 to 3.03** | %Forest |
| *Ortalis columbiana* | -0.64 | -1.58 to 0.31 | %Forest |
| *Pecari tajacu* | **1.56** | **0.53 to 2.81** | %Forest |
| *Procyon cancrivorus* | 0.72 | -0.07 to 1.55 | %Forest |
| *Puma yagouaroundi* | 0.18 | -0.69 to 1.07 | %Forest |
| *Sylvilagus brasiliensis* | 0.16 | -0.55 to 0.84 | %Forest |
| *Tamandua mexicana* | 0.46 | -0.22 to 1.16 | %Forest |
| *Aramides cajaneus* | **-0.61** | **-1.09 to -0.11** | Solar radiation |
| *Cerdocyon thous* | **-0.68** | **-1.29 to -0.12** | Solar radiation |
| *Colinus cristatus* | **-0.65** | **-1.25 to -0.06** | Solar radiation |
| *Conepatus semistriatus* | -0.64 | -1.3 to 0.06 | Solar radiation |
| *Cuniculus paca* | **-0.89** | **-1.8 to -0.3** | Solar radiation |
| *Dasypus novemcinctus* | **-0.77** | **-1.47 to -0.2** | Solar radiation |
| *Didelphis marsupialis* | **-0.82** | **-1.53 to -0.3** | Solar radiation |
| *Eira barbara* | **-0.96** | **-1.98 to -0.34** | Solar radiation |
| *Galictis vittata* | **-0.73** | **-1.47 to -0.08** | Solar radiation |
| *Leopardus pardalis* | **-0.83** | **-1.62 to -0.27** | Solar radiation |
| *Mazama sp* | -0.39 | -0.99 to 0.55 | Solar radiation |
| *Ortalis columbiana* | -0.53 | -1.08 to 0.14 | Solar radiation |
| *Pecari tajacu* | -0.62 | -1.25 to 0.08 | Solar radiation |
| *Procyon cancrivorus* | **-0.90** | **-1.68 to -0.37** | Solar radiation |
| *Puma yagouaroundi* | **-0.79** | **-1.5 to -0.24** | Solar radiation |
| *Sylvilagus brasiliensis* | -0.57 | -1.12 to 0.05 | Solar radiation |
| *Tamandua mexicana* | **-0.66** | **-1.19 to -0.16** | Solar radiation |
| *Aramides cajaneus* | 0.22 | -0.43 to 0.73 | Dist. Tourist |
| *Cerdocyon thous* | **0.54** | **0.04 to 1.14** | Dist. Tourist |
| *Colinus cristatus* | 0.46 | -0.14 to 1.08 | Dist. Tourist |
| *Conepatus semistriatus* | 0.54 | -0.07 to 1.27 | Dist. Tourist |
| *Cuniculus paca* | 0.48 | -0.14 to 1.15 | Dist. Tourist |
| *Dasypus novemcinctus* | 0.35 | -0.3 to 0.93 | Dist. Tourist |
| *Didelphis marsupialis* | 0.52 | -0.03 to 1.16 | Dist. Tourist |
| *Eira barbara* | 0.46 | -0.15 to 1.1 | Dist. Tourist |
| *Galictis vittata* | 0.58 | -0.02 to 1.36 | Dist. Tourist |
| *Leopardus pardalis* | **0.57** | **0 to 1.3** | Dist. Tourist |
| *Mazama sp* | **0.61** | **0.09 to 1.3** | Dist. Tourist |
| *Ortalis columbiana* | 0.35 | -0.34 to 0.97 | Dist. Tourist |
| *Pecari tajacu* | 0.50 | -0.08 to 1.14 | Dist. Tourist |
| *Procyon cancrivorus* | **0.75** | **0.2 to 1.56** | Dist. Tourist |
| *Puma yagouaroundi* | 0.19 | -0.64 to 0.78 | Dist. Tourist |
| *Sylvilagus brasiliensis* | 0.46 | -0.06 to 1 | Dist. Tourist |
| *Tamandua mexicana* | 0.26 | -0.4 to 0.78 | Dist. Tourist |
| *Aramides cajaneus* | -0.23 | -0.67 to 0.3 | Human footprint |
| *Cerdocyon thous* | -0.39 | -0.89 to 0.08 | Human footprint |
| *Colinus cristatus* | **-0.51** | **-1.22 to 0** | Human footprint |
| *Conepatus semistriatus* | -0.20 | -0.74 to 0.51 | Human footprint |
| *Cuniculus paca* | -0.31 | -0.85 to 0.28 | Human footprint |
| *Dasypus novemcinctus* | -0.21 | -0.72 to 0.45 | Human footprint |
| *Didelphis marsupialis* | -0.43 | -1 to 0.05 | Human footprint |
| *Eira barbara* | -0.19 | -0.69 to 0.49 | Human footprint |
| *Galictis vittata* | -0.27 | -0.81 to 0.37 | Human footprint |
| *Leopardus pardalis* | -0.37 | -0.92 to 0.17 | Human footprint |
| *Mazama sp* | -0.45 | -1.05 to 0.02 | Human footprint |
| *Ortalis columbiana* | -0.42 | -0.97 to 0.07 | Human footprint |
| *Pecari tajacu* | -0.28 | -0.79 to 0.31 | Human footprint |
| *Procyon cancrivorus* | **-0.63** | **-1.35 to -0.14** | Human footprint |
| *Puma yagouaroundi* | **-0.49** | **-1.12 to 0** | Human footprint |
| *Sylvilagus brasiliensis* | -0.35 | -0.83 to 0.14 | Human footprint |
| *Tamandua mexicana* | **-0.56** | **-1.19 to -0.11** | Human footprint |