**Supplementary Material**

Distribution and habitat use of the endemic Yungas Guan *Penelope bridgesi* in the Southern Yungas of Argentina

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Table S1. Correlation analysis of bioclimatic variables



Table S2. Hypotheses and models evaluated on the variables that affect the detectability and habitat use of the Yungas Guan.

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| --- | --- |
| Hypothesis | Model |
| Detectability and occupancy is similar at all sites | p (.) ψ (.) |
| The Occasion influences the detectability | (Occasion) ψ (.) |
| Elevation influences occupancy | p (.) ψ (Elevation) |
| Occupancy probability is associated with elevation and detectability is influenced by the Occasion | p (Occasion) ψ (Elevation) |
| Occupancy probability is associated with the presence of rivers | p (.) ψ (Rivers) |
| The probability of occupancy is associated with the presence of rivers and the detectability of the Occasion | p (Occasion) ψ (Rivers) |
| Occupancy probability is associated with distance to roads | p (.) ψ (Roads) |
| Occupancy probability is associated with distance to roads and detectability is influenced by the Occasion | p (Occasion) ψ (Roads) |
| Occupancy probability is associated with distance to urban areas | p (.) ψ (Urban areas) |
| The probability of occupancy is associated with the distance to urban areas and the detectability of the Occasion | p (Occasion) ψ (Urban areas) |
| Occupancy probability is associated with the distance to Puestos | p (.) ψ (Puestos) |
| The probability of occupancy is associated with the distance to Puestos and the detectability of the Occasion | p (Occasion) ψ (Puestos) |
| Occupancy probability is associated with the distance to Puestos, distance to rivers, urban areas, roads and elevation | p (.) ψ (Puestos + Rivers + Urban areas + Roads + Elevation) |
| The probability of occupancy is associated with the distance to Puestos, distance to rivers, urban areas, roads and elevation and the detectability to the Occasion | p (Occasion) ψ (Puestos + Rivers + Urban areas + Roads + Elevation) |
| The probability of occupancy is associated with the distance to rivers and urban areas and the detectability of the Occasion. | p (Occasion) ψ (Rivers + Urban areas) |
| Occupancy probability is associated with the distance to rivers, urban areas and roads and the detectability of the Occasion | p (Occasion) ψ (Rivers + Urban areas + Roads) |

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Figure S1. Correlation between variables.

Map

Description automatically generated

Figure S2. Model ouput of the potential distribution of Yungas Guan.