

Article title: Between Grasslands and Mountains: Identification of valuable areas for landscape connectivity in the Tandilia Mountain System for carnivore species.

Journal name: Biodiversity and Conservation

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Supplementary Información 1

Table 1 Bioclimatic variables. Bioclimatic variables used for climate niche modeling.

Reference	Variable
BIO1	Average annual temperature
BIO2	Mean Diurnal Range (Mean of monthly (max temp - min temp))
BIO3	Isothermality (BIO2/BIO7) (×100)
BIO4	Temperature Seasonality (standard deviation ×100)
BIO5	Max Temperature of Warmest Month
BIO6	Min Temperature of Coldest Month
BIO7	Temperature Annual Range (BIO5-BIO6)
BIO8	Mean Temperature of Wettest Quarter
BIO9	Mean Temperature of Driest Quarter
BIO10	Mean Temperature of Warmest Quarter
BIO11	Mean Temperature of Coldest Quarter
BIO12	Annual Precipitation
BIO13	Precipitation of Wettest Month
BIO14	Precipitation of Driest Month
BIO15	Precipitation Seasonality (Coefficient of Variation)
BIO16	Precipitation of Wettest Quarter
BIO17	Precipitation of Driest Quarter
BIO18	Precipitation of Warmest Quarter
BIO19	Precipitation of Coldest Quarter

Table 2 Land use cover categories. It represents the original classification of land cover categories and how we grouped them for analysis.

Original coverage	ID	Bundled coverage
Forest formation	3	Forest and woody formation
Savanna formation	4	
Silviculture	9	
Wetland	11	Wetland
Grassland	12	Grassland
Pasture	15	Agriculture or pasture
Agriculture	18	
Agriculture or pasture	21	
Non vegetated area	22	Non vegetated area
		Urban
River, lake or ocean	33	Body of water
Not observed	27	Not observed

Table 3 Results obtained from climate niche modeling. The modeling results using the *kuenm* program are presented, showing the total number of models obtained and the models that met the selection criteria.

Criteria	Number of models
<i>Lycalopex gymnocercus</i>	
All candidate models	186
Statistically significant models	186
Models meeting omission rate criteria	44
Models meeting AICc criteria	1

Statistically significant models meeting omission rate criteria	44
Statistically significant models meeting AICc criteria	1
Statistically significant models meeting omission rate and AICc criteria	2

- *Leopardus geoffroyi*

All candidate models	186
Statistically significant models	185
Models meeting omission rate criteria	4
Models meeting AICc criteria	2
Statistically significant models meeting omission rate criteria	3
Statistically significant models meeting AICc criteria	2
Statistically significant models meeting omission rate and AICc criteria	2

- *Conepatus chinga*

All candidate models	186
Statistically significant models	184
Models meeting omission rate criteria	25
Models meeting AICc criteria	1
Statistically significant models meeting omission rate criteria	23
Statistically significant models meeting AICc criteria	1
Statistically significant models meeting omission rate and AICc criteria	2

- *Puma concolor*

All candidate models	186
Statistically significant models	129
Models meeting omission rate criteria	148
Models meeting AICc criteria	6
Statistically significant models meeting omission rate criteria	91

Statistically significant models meeting AICc criteria	6
Statistically significant models meeting omission rate and AICc criteria	6

- *Galictis cuja*

All candidate models	186
Statistically significant models	185
Models meeting omission rate criteria	11
Models meeting AICc criteria	8
Statistically significant models meeting omission rate criteria	10
Statistically significant models meeting AICc criteria	8
Statistically significant models meeting omission rate and AICc criteria	1
