**Supplementary material**

Raw data for modeling will be available in 7 folders:

1. **Environmental\_variables\_850masl:** Contains nine environmental variables in asci (asc.) format used for Maxent modeling under the Geographic Structured (GS) approach, covering areas below 850 meters above sea level (masl)
2. **Environmental\_variables\_850masl\_masked:** Contains nine environmental variables in asci (asc.) format used for Maxent modeling under the Masked Geographic Structured (MGS) approach, covering areas below 850 meters above sea level (masl)
3. **Environmental\_variables\_Bolivia:** Contains nine environmental variables in asci (asc.) format used for Maxent modeling under the Geographic Structured (GS) approach, covering areas defined by country boundaries.
4. **Environmental\_variables\_Bolivia\_masked:** Contains nine environmental variables in asci (asc.) format used for Maxent modeling under the Masked Geographic Structured (MGS) approach, covering areas defined by country boundaries.
5. **Caiman\_yacare\_occurrences:** Contains comma separated values files (csv.) with: 251 Evaluation points and 284 Calibration points. Calibration points are subdivided in 4 bins (each bin with 71 occurrences.
6. **Shapefiles:** Contains polygons in shapefiles (shp.) format used for data preparation, including a) country boundaries, b) areas below 850 masl, c) 77 geographic grids covering the entire country extent, d) 38 grids containing final 535 occurrences, e) Calibration grids Set A, and f) Evaluation grids Set B.
7. **Maxent parameter settings:** Details for Maxent modeling parameter settings in an excel file.