**Table A.1**

Pearson correlation matrix testing for spatial autocorrelation among environmental variables. Pearson coefficients values between -0.7 and 0.7 were used to identify non-correlated variables to model the potential suitable habitat for *Caiman yacare* distribution. Gray background cells represent high correlation values.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **1.** | **2.** | **3.** | **4.** | **5.** | **6.** | **7.** | **8.** | **9.** | **10.** | **11.** | **12.** | **13.** | **14.** | **15.** | **16.** | **17.** | **18.** | **19.** | **20.** | **21.** | **22.** |
| **1. Annual Mean Temperature (AMT)** | 1.00 | -0.46 | 0.48 | -0.49 | 0.49 | 0.82 | -0.50 | 0.51 | 0.87 | 0.71 | 0.84 | 0.40 | 0.35 | 0.26 | -0.31 | 0.35 | 0.27 | 0.10 | 0.25 | -0.92 | 0.02 | -0.41 |
| **2. Mean Diurnal Range (MDR)** | | 1.00 | -0.84 | 0.90 | 0.51 | -0.87 | 0.98 | 0.38 | -0.68 | 0.22 | -0.81 | -0.71 | -0.66 | -0.44 | 0.21 | -0.68 | -0.43 | -0.26 | -0.39 | 0.42 | -0.04 | 0.03 |
| **3. Isothermality (ISO)** | | | 1.00 | -0.86 | -0.46 | 0.83 | -0.92 | -0.31 | 0.68 | -0.18 | 0.79 | 0.54 | 0.46 | 0.28 | -0.27 | 0.48 | 0.27 | 0.17 | 0.24 | -0.35 | 0.02 | 0.03 |
| **4. Temperature Seasonality (TS)** | | | | 1.00 | 0.42 | -0.86 | 0.93 | 0.48 | -0.71 | 0.25 | -0.89 | -0.62 | -0.59 | -0.18 | 0.08 | -0.61 | -0.18 | -0.03 | -0.14 | 0.52 | -0.03 | 0.06 |
| **5. Maximum Temperature Warmest Month (MTWM)** | | | | | 1.00 | -0.07 | 0.50 | 0.85 | 0.18 | 0.91 | 0.00 | -0.31 | -0.29 | -0.18 | -0.03 | -0.30 | -0.17 | -0.19 | -0.15 | -0.51 | -0.02 | -0.43 |
| **6. Minimum Temperature Coldest Month (MTCM)** | | | | | | 1.00 | -0.90 | 0.00 | 0.91 | 0.22 | 0.97 | 0.64 | 0.58 | 0.38 | -0.31 | 0.59 | 0.38 | 0.18 | 0.35 | -0.74 | 0.03 | -0.24 |
| **7. Temperature Annual Range (TAR)** | | | | | | | 1.00 | 0.37 | -0.72 | 0.21 | -0.84 | -0.69 | -0.63 | -0.41 | 0.26 | -0.65 | -0.40 | -0.24 | -0.37 | 0.42 | -0.03 | 0.02 |
| **8. Mean Temperature Wettest Quarter (MTWQ)** | | | | | | | | 1.00 | 0.18 | 0.93 | -0.02 | -0.18 | -0.22 | 0.13 | -0.30 | -0.23 | 0.13 | 0.11 | 0.15 | -0.39 | -0.01 | -0.33 |
| **9. Mean Temperature Driest Quarter (MTDQ)** | | | | | | | | | 1.00 | 0.40 | 0.91 | 0.51 | 0.45 | 0.30 | -0.35 | 0.46 | 0.30 | 0.09 | 0.29 | -0.79 | 0.03 | -0.33 |
| **10. Mean Temperature Warmest Quarter (MTWQ)** | | | | | | | | | | 1.00 | 0.23 | -0.07 | -0.09 | 0.08 | -0.19 | -0.10 | 0.08 | 0.04 | 0.09 | -0.63 | -0.01 | -0.43 |
| **11. Mean Temperature of Coldest Quarter (MTCQ)** | | | | | | | | | | | 1.00 | 0.59 | 0.54 | 0.23 | -0.20 | 0.56 | 0.24 | 0.06 | 0.20 | -0.82 | 0.02 | -0.26 |
| **12. Annual Precipitation (AP)** | | | | | | | | | | | | 1.00 | 0.98 | 0.74 | -0.22 | 0.99 | 0.75 | 0.71 | 0.73 | -0.36 | 0.06 | -0.02 |
| **13. Precipitation Wettest Month (PWM)** | | | | | | | | | | | | | 1.00 | 0.68 | -0.10 | 1.00 | 0.70 | 0.68 | 0.67 | -0.35 | 0.06 | -0.01 |
| **14. Precipitation Driest Month (PDM)** | | | | | | | | | | | | | | 1.00 | -0.64 | 0.68 | 0.99 | 0.80 | 0.99 | -0.08 | 0.05 | 0.05 |
| **15. Precipitation Seasonality (PS)** | | | | | | | | | | | | | | | 1.00 | -0.11 | -0.64 | -0.31 | -0.65 | 0.08 | -0.03 | -0.02 |
| **16. Precipitation Wettest Quarter (PWQ)** | | | | | | | | | | | | | | | | 1.00 | 0.70 | 0.67 | 0.67 | -0.35 | 0.06 | -0.01 |
| **17. Precipitation Driest Quarter (PDQ)** | | | | | | | | | | | | | | | | | 1.00 | 0.81 | 0.99 | -0.09 | 0.05 | 0.05 |
| **18. Precipitation Warmest Quarter (PWQ)** | | | | | | | | | | | | | | | | | | 1.00 | 0.80 | 0.06 | 0.05 | 0.13 |
| **19. Precipitation Coldest Quarter (PCQ)** | | | | | | | | | | | | | | | | | | | 1.00 | -0.07 | 0.05 | 0.05 |
| **20. Digital Elevation Model (DEM)** | | | | | | | | | | | | | | | | | | | | 1.00 | -0.01 | 0.47 |
| **21. Flow Direction (FD)** | | | | | | | | | | | | | | | | | | | | | 1.00 | -0.01 |
| **Slope (S)** | | | | | | | | | | | | | | | | | | | | | | 1.00 |