**Supplemental Table D.** Model-averaged coefficients and relative variable importance of (generalized) linear mixed-effects models (GLMMs), relating the nest quantity and average clutch size of *Podocnemis expansa* to principal components that summarized the environmental variation of precipitation and river level in the Araguaia National Park, Pium, Tocantins, Brazil from 1985 to 2009.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Predictor variable** | **Estimate** | **SE** | ***Z*** | ***P*** | **Relative variable importance§** |
| **Nest quantity** |
| **PC4** | **-0.003297** | **0.001343** | **2.455** | **0.0141** | **0.82** |
| PC6 | -0.001518 | 0.001362 | 1.115 | 0.265 | 0.37 |
| PC5 | -0.001343 | 0.001362 | 0.986 | 0.3241 | 0.34 |
| PC3 | 0.001196 | 0.001366 | 0.875 | 0.3813 | 0.32 |
| PC1 | -0.001141 | 0.001375 | 0.830 | 0.4065 | 0.31 |
| PC2 | 0.000268 | 0.001395 | 0.192 | 0.8479 | 0.24 |
| **Clutch size** |
| **PC2** | **0.311014** | **0.135665** | **2.293** | **0.0219** | **0.94** |
| **PC3** | **-0.290270** | **0.134947** | **2.151** | **0.0315** | **0.93** |
| PC5 | -0.210458 | 0.135224 | 1.556 | 0.1196 | 0.83 |
| PC4 | -0.089602 | 0.137394 | 0.652 | 0.5143 | 0.65 |
| PC1 | -0.013153 | 0.138966 | 0.095 | 0.9246 | 0.60 |
| PC6 | 0.008301 | 0.139061 | 0.060 | 0.9524 | 0.60 |

§ The relative variable importance is the sum of Akaike weights over all models with all possible combinations of the variables.