**Supplementary Material.** Results of the Principal Components Analysis (PCA), showing the percentage variance, eigenvalues, and loadings for axes PC1 and PC2 of the biometric measurements of *Hypocnemis peruviana* and *H. subflava* and for the comparison of the sexes of the two species. The most relevant loadings are highlighted in bold type.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PC** | ***Hypocnemis peruviana* and *H. subflava*** | | **Male and female *H. peruviana*** | | **Male and female *H. subflava*** | |
| **PC1** | **PC2** | **PC1** | **PC2** | **PC1** | **PC2** |
| Variance (%) | 31.18 | 15.41 | 32.04 | 23.08 | 34.03 | 20 |
| Eigenvalue | 3.12 | 1.54 | 3.20 | 2.31 | 3.40 | 1.96 |
| **Biometric variable** | **Loading** | | **Loading** | | **Loading** | |
| **PC 1** | **PC 2** | **PC 1** | **PC 2** | **PC 1** | **PC 2** |
| Beak height | 0.19 | **0.57** | 0.06 | **0.53** | 0.30 | 0.16 |
| Beak width | **0.42** | 0.16 | **0.43** | 0.24 | 0.36 | 0.31 |
| Wing | 0.36 | -0.31 | 0.38 | 0.31 | 0.34 | 0.30 |
| Retrices | 0.37 | 0.00 | 0.30 | 0.02 | 0.33 | 0.38 |
| Length of the tarsus | -0.14 | **0.49** | 0.10 | **0.41** | 0.00 | 0.17 |
| Length of the beak | **0.47** | -0.13 | **0.51** | 0.03 | **0.43** | 0.23 |
| Tarsus width | 0.05 | **0.51** | **0.42** | 0.27 | 0.30 | 0.04 |
| Head | **0.41** | 0.02 | 0.29 | 0.32 | **0.40** | 0.24 |
| Total length | 0.30 | 0.01 | 0.17 | 0.39 | 0.21 | **0.53** |
| Body mass | -0.16 | -0.17 | 0.05 | 0.25 | 0.24 | 0.44 |