# Wombat cranium difference

Results of the area difference random test for the cranium of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.425 | 7.952 | 0 | 0.003 | **0.003** |
| 2 | -0.519 | -8.601 | -0.003 | 0.004 | **0.003** |
| 3 | 0.098 | 5.687 | 0 | 0 | **0.003** |

# Wombat cranium difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.071 | 3.9 | 0.001 | 0 | **0.003** |
| 2 | -0.052 | -2.999 | 0.001 | 0 | **0.012** |
| 3 | 0.105 | 6.111 | -0.001 | 0 | **0.003** |

# Wombat cranium overlaps

Results of the overlap probability random test for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.949 | -5.995 | 0.98 | 0 | **0.003** |
| 2 | 0.952 | -5.96 | 0.981 | 0 | **0.003** |
| 3 | 0.778 | -4.947 | 0.904 | 0.001 | **0.003** |

# Wombat cranium overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.853 | -1.981 | 0.903 | 0.001 | 0.153 |
| 2 | 0.864 | -1.652 | 0.904 | 0.001 | 0.297 |
| 3 | 0.688 | -8.407 | 0.905 | 0.001 | **0.003** |

# Wombat krefftii cranium difference

Results of the area difference random test for the cranium of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.092 | 3.453 | 0.001 | 0.001 | **0.006** |
| 2 | -0.133 | -4.263 | 0 | 0.001 | **0.003** |
| 3 | 0.043 | 4.96 | 0 | 0 | **0.003** |

# Wombat krefftii cranium difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.015 | 1.782 | -0.00029 | 7e-05 | 0.225 |
| 2 | -0.013 | -1.507 | 0.00011 | 8e-05 | 0.378 |
| 3 | 0.046 | 5.107 | -0.00035 | 8e-05 | **0.003** |

# Wombat krefftii cranium overlaps

Results of the overlap probability random test for the of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.975 | -1.982 | 0.984 | 0 | 0.132 |
| 2 | 0.981 | -0.998 | 0.985 | 0 | 0.95 |
| 3 | 0.582 | -13.692 | 0.917 | 0.001 | **0.003** |

# Wombat krefftii cranium overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.894 | -0.935 | 0.917 | 0.001 | 1 |
| 2 | 0.902 | -0.66 | 0.918 | 0.001 | 1 |
| 3 | 0.518 | -16.201 | 0.918 | 0.001 | **0.003** |

# Wombat krefftii mandible difference

Results of the area difference random test for the mandible of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.029 | 2.37 | 0 | 0 | 0.057 |
| 2 | -0.112 | -2.597 | -0.002 | 0.002 | **0.045** |
| 3 | 0.081 | 2.306 | -0.001 | 0.001 | **0.045** |

# Wombat krefftii mandible difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.031 | 2.625 | -7e-05 | 0.00014 | **0.015** |
| 2 | -0.018 | -1.504 | 0.00019 | 0.00015 | 0.42 |
| 3 | 0.017 | 1.432 | -0.00037 | 0.00014 | 0.438 |

# Wombat krefftii mandible overlaps

Results of the overlap probability random test for the of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.791 | -4.964 | 0.917 | 0.001 | **0.003** |
| 2 | 0.985 | 0.907 | 0.979 | 0 | 1 |
| 3 | 0.988 | 1.4 | 0.979 | 0 | 0.438 |

# Wombat krefftii mandible overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the of Wombat\_krefftii

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.747 | -6.464 | 0.916 | 0.001 | **0.003** |
| 2 | 0.908 | -0.329 | 0.916 | 0.001 | 1 |
| 3 | 0.909 | -0.341 | 0.918 | 0.001 | 1 |

# Wombat lasiorhinus cranium difference

Results of the area difference random test for the mandible of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | -0.02 | -1.38 | 0.00 | 0.00 | 0.51 |
| 2.00 | 0.05 | 0.96 | -0.00 | 0.00 | 1.00 |
| 3.00 | -0.03 | -0.68 | -0.00 | 0.00 | 1.00 |

# Wombat lasiorhinus cranium difference rarefied

Results of the area difference random test (rarefied - 47) for the mandible of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | -0.02 | -1.48 | 0.00 | 0.00 | 0.43 |
| 2.00 | 0.01 | 0.51 | 0.00 | 0.00 | 1.00 |
| 3.00 | -0.01 | -0.27 | -0.00 | 0.00 | 1.00 |

# Wombat lasiorhinus cranium overlaps

Results of the overlap probability random test for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.831 | -3.31 | 0.921 | 0.001 | **0.024** |
| 2 | 0.991 | 2.372 | 0.976 | 0 | **0.045** |
| 3 | 0.976 | 0.051 | 0.976 | 0 | 1 |

# Wombat lasiorhinus cranium overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | 0.87 | -1.98 | 0.92 | 0.00 | 0.14 |
| 2.00 | 0.91 | -0.58 | 0.92 | 0.00 | 1.00 |
| 3.00 | 0.92 | -0.00 | 0.92 | 0.00 | 1.00 |

# Wombat lasiorhinus mandible difference

Results of the area difference random test for the mandible of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | -0.02 | -1.38 | 0.00 | 0.00 | 0.51 |
| 2.00 | 0.05 | 0.96 | -0.00 | 0.00 | 1.00 |
| 3.00 | -0.03 | -0.68 | -0.00 | 0.00 | 1.00 |

# Wombat lasiorhinus mandible difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | -0.02 | -1.48 | 0.00 | 0.00 | 0.43 |
| 2.00 | 0.01 | 0.51 | 0.00 | 0.00 | 1.00 |
| 3.00 | -0.01 | -0.27 | -0.00 | 0.00 | 1.00 |

# Wombat lasiorhinus mandible overlaps

Results of the overlap probability random test for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.831 | -3.31 | 0.921 | 0.001 | **0.024** |
| 2 | 0.991 | 2.372 | 0.976 | 0 | **0.045** |
| 3 | 0.976 | 0.051 | 0.976 | 0 | 1 |

# Wombat lasiorhinus mandible overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | 0.87 | -1.98 | 0.92 | 0.00 | 0.14 |
| 2.00 | 0.91 | -0.58 | 0.92 | 0.00 | 1.00 |
| 3.00 | 0.92 | -0.00 | 0.92 | 0.00 | 1.00 |

# Wombat latifrons cranium difference

Results of the area difference random test for the cranium of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.004 | 0.171 | 0 | 0.001 | 1 |
| 2 | -0.145 | -4.951 | 0.003 | 0.001 | **0.003** |
| 3 | 0.14 | 16.322 | 0.001 | 0 | **0.003** |

# Wombat latifrons cranium difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.001 | 0.171 | -4e-05 | 7e-05 | 1 |
| 2 | -0.014 | -1.591 | -0.00022 | 7e-05 | 0.333 |
| 3 | 0.147 | 16.413 | 0.00018 | 8e-05 | **0.003** |

# Wombat latifrons cranium overlaps

Results of the overlap probability random test for the of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.965 | -1.875 | 0.977 | 0 | 0.165 |
| 2 | 0.976 | -0.341 | 0.978 | 0 | 1 |
| 3 | 0.351 | -22.435 | 0.906 | 0.001 | **0.003** |

# Wombat latifrons cranium overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.903 | -0.099 | 0.906 | 0.001 | 1 |
| 2 | 0.905 | -0.145 | 0.909 | 0.001 | 1 |
| 3 | 0.186 | -28.206 | 0.905 | 0.001 | **0.003** |

# Wombat latifrons mandible difference

Results of the area difference random test for the mandible of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.104 | 10.429 | 0 | 0 | **0.003** |
| 2 | -0.22 | -6.75 | 0 | 0.001 | **0.003** |
| 3 | 0.114 | 3.855 | 0.001 | 0.001 | **0.003** |

# Wombat latifrons mandible difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.113 | 11.562 | 0.001 | 0 | **0.003** |
| 2 | -0.035 | -3.428 | 0 | 0 | **0.006** |
| 3 | 0.023 | 2.311 | 0 | 0 | 0.069 |

# Wombat latifrons mandible overlaps

Results of the overlap probability random test for the of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.578 | -13.246 | 0.914 | 0.001 | **0.003** |
| 2 | 0.928 | -7.31 | 0.978 | 0 | **0.003** |
| 3 | 0.952 | -3.44 | 0.977 | 0 | **0.015** |

# Wombat latifrons mandible overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the of Wombat\_latifrons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.459 | -17.586 | 0.914 | 0.001 | **0.003** |
| 2 | 0.846 | -2.781 | 0.915 | 0.001 | **0.018** |
| 3 | 0.874 | -1.524 | 0.914 | 0.001 | 0.333 |

# Wombat mandible difference

Results of the area difference random test for the mandible of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | -0.02 | -1.38 | 0.00 | 0.00 | 0.51 |
| 2.00 | 0.05 | 0.96 | -0.00 | 0.00 | 1.00 |
| 3.00 | -0.03 | -0.68 | -0.00 | 0.00 | 1.00 |

# Wombat mandible difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | -0.02 | -1.48 | 0.00 | 0.00 | 0.43 |
| 2.00 | 0.01 | 0.51 | 0.00 | 0.00 | 1.00 |
| 3.00 | -0.01 | -0.27 | -0.00 | 0.00 | 1.00 |

# Wombat mandible overlaps

Results of the overlap probability random test for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.831 | -3.31 | 0.921 | 0.001 | **0.024** |
| 2 | 0.991 | 2.372 | 0.976 | 0 | **0.045** |
| 3 | 0.976 | 0.051 | 0.976 | 0 | 1 |

# Wombat mandible overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the of Wombat

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | 0.87 | -1.98 | 0.92 | 0.00 | 0.14 |
| 2.00 | 0.91 | -0.58 | 0.92 | 0.00 | 1.00 |
| 3.00 | 0.92 | -0.00 | 0.92 | 0.00 | 1.00 |

# Wombat ursinus cranium difference

Results of the area difference random test for the cranium of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.395 | 11.897 | 0.001 | 0.001 | **0.003** |
| 2 | -0.333 | -8.846 | -0.001 | 0.001 | **0.003** |
| 3 | -0.06 | -5.514 | 0 | 0 | **0.003** |

# Wombat ursinus cranium difference rarefied

Results of the area difference random test (rarefied - 47) for the cranium of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.067 | 5.885 | -5e-05 | 0.00013 | **0.003** |
| 2 | -0.033 | -3.083 | -0.00019 | 0.00012 | **0.006** |
| 3 | -0.062 | -5.916 | -0.00039 | 0.00011 | **0.003** |

# Wombat ursinus cranium overlaps

Results of the overlap probability random test for the of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.9 | -16.63 | 0.984 | 0 | **0.003** |
| 2 | 0.918 | -15.505 | 0.986 | 0 | **0.003** |
| 3 | 0.721 | -7.595 | 0.915 | 0.001 | **0.003** |

# Wombat ursinus cranium overlaps rarefied

Results of the overlap probability random test (rarefied - 47) for the of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | 0.796 | -4.438 | 0.915 | 0.001 | **0.003** |
| 2 | 0.852 | -2.355 | 0.914 | 0.001 | **0.048** |
| 3 | 0.691 | -8.291 | 0.914 | 0.001 | **0.003** |

# Wombat ursinus mandible difference

Results of the area difference random test for the mandible of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | -0.012 | -0.98 | 0 | 0 | 0.959 |
| 2 | -0.148 | -3.676 | 0.003 | 0.002 | **0.003** |
| 3 | 0.165 | 4.627 | 0.001 | 0.001 | **0.003** |

# Wombat ursinus mandible difference rarefied

Results of the area difference random test (rarefied - 45) for the mandible of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1 | -0.013 | -1.084 | -0.00038 | 0.00014 | 0.797 |
| 2 | -0.025 | -2.031 | 6e-05 | 0.00015 | 0.132 |
| 3 | 0.033 | 2.859 | -0.00023 | 0.00013 | **0.012** |

# Wombat ursinus mandible overlaps

Results of the overlap probability random test for the of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | 0.88 | -1.91 | 0.93 | 0.00 | 0.17 |
| 2.00 | 0.98 | -0.56 | 0.98 | 0.00 | 1.00 |
| 3.00 | 0.97 | -1.87 | 0.98 | 0.00 | 0.18 |

# Wombat ursinus mandible overlaps rarefied

Results of the overlap probability random test (rarefied - 45) for the of Wombat\_ursinus

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partition | Observed | Mean Normal residuals | Random mean | Random variance | p value (adjusted) |
| 1.00 | 0.88 | -2.00 | 0.93 | 0.00 | 0.12 |
| 2.00 | 0.90 | -1.03 | 0.93 | 0.00 | 0.84 |
| 3.00 | 0.91 | -0.62 | 0.93 | 0.00 | 1.00 |

# all differences

“diff” is the difference in landmark length between the ones from the partition and all the other. “overlap” is the probability of overlap between the distribution of the landmark lengths in the partitions and all the other. The p values are adjusted using a Bonferroni-Holm correction. Because of the number of bootstrap pseudo-replicates involved in the test (1000), we lowered our threshold for rejecting H0 to p <= 0.01. Signif. codes: 0 `\*\*` 0.001 `\*` 0.01 `.` 0.05 ` ` 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | test | Cranium 1 | Cranium 2 | Cranium 3 | Mandible 1 | Mandible 2 | Mandible 3 |
| All species | diff | 0.425 | -0.519 | 0.098 | -0.022 | 0.049 | -0.03 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 0.509 | 1 | 1 |
|  | overlap | 0.95 | 0.95 | 0.78 | 0.83 | 0.99 | 0.98 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 0.024. | 0.045. | 1 |
| *Lasiorhinus krefftii* | diff | 0.092 | -0.133 | 0.043 | 0.029 | -0.112 | 0.081 |
|  | p | 0.006\* | 0.003\* | 0.003\* | 0.057 | 0.045. | 0.045. |
|  | overlap | 0.97 | 0.98 | 0.58 | 0.79 | 0.98 | 0.99 |
|  | p | 0.132 | 0.95 | 0.003\* | 0.003\* | 1 | 0.438 |
| *Lasiorhinus latifrons* | diff | 0.004 | -0.145 | 0.14 | 0.104 | -0.22 | 0.114 |
|  | p | 1 | 0.003\* | 0.003\* | 0.003\* | 0.003\* | 0.003\* |
|  | overlap | 0.97 | 0.98 | 0.35 | 0.58 | 0.93 | 0.95 |
|  | p | 0.165 | 1 | 0.003\* | 0.003\* | 0.003\* | 0.015. |
| *Vombatus ursinus* | diff | 0.395 | -0.333 | -0.06 | -0.012 | -0.148 | 0.165 |
|  | P | 0.003\* | 0.003\* | 0.003\* | 0.959 | 0.003\* | 0.003\* |
|  | overlap | 0.9 | 0.92 | 0.72 | 0.88 | 0.98 | 0.97 |
|  | p | 0.003\* | 0.003\* | 0.003\* | 0.174 | 1 | 0.18 |
| *Lasiorhinus* | diff | 0.027 | -0.068 | 0.04 | 0.112 | -0.26 | 0.156 |
|  | p | 1 | 0.309 | 0.003\* | 0.003\* | 0.003\* | 0.003\* |
|  | overlap | 0.97 | 0.98 | 0.87 | 0.59 | 0.94 | 0.97 |
|  | p | 0.003\* | 0.051 | 0.126 | 0.003\* | 0.003\* | 1 |

# all differences rarefied

“diff” is the difference in landmark length between the ones from the partition and all the other. “overlap” is the probability of overlap between the distribution of the landmark lengths in the partitions and all the other. The p values are adjusted using a Bonferroni-Holm correction. Because of the number of bootstrap pseudo-replicates involved in the test (1000), we lowered our threshold for rejecting H0 to p <= 0.01. Signif. codes: 0 `\*\*` 0.001 `\*` 0.01 `.` 0.05 ` ` 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | test | Cranium 1 | Cranium 2 | Cranium 3 | Mandible 1 | Mandible 2 | Mandible 3 |
| All species | diff | 0.071 | -0.052 | 0.105 | -0.023 | 0.008 | -0.005 |
|  | p | 0.003\* | 0.012. | 0.003\* | 0.426 | 1 | 1 |
|  | overlap | 0.85 | 0.86 | 0.69 | 0.87 | 0.91 | 0.92 |
|  | p | 0.153 | 0.297 | 0.003\* | 0.141 | 1 | 1 |
| *Lasiorhinus* *krefftii* | diff | 0.015 | -0.013 | 0.046 | 0.031 | -0.018 | 0.017 |
|  | p | 0.225 | 0.378 | 0.003\* | 0.015. | 0.42 | 0.438 |
|  | overlap | 0.89 | 0.9 | 0.52 | 0.75 | 0.91 | 0.91 |
|  | p | 1 | 1 | 0.003\* | 0.003\* | 1 | 1 |
| *Lasiorhinus* *latifrons* | diff | 0.001 | -0.014 | 0.147 | 0.113 | -0.035 | 0.023 |
|  | p | 1 | 0.333 | 0.003\* | 0.003\* | 0.006\* | 0.069 |
|  | overlap | 0.9 | 0.91 | 0.19 | 0.46 | 0.85 | 0.87 |
|  | p | 1 | 1 | 0.003\* | 0.003\* | 0.018. | 0.333 |
| *Vombatus ursinus* | diff | 0.067 | -0.033 | -0.062 | -0.013 | -0.025 | 0.033 |
|  | p | 0.003\* | 0.006\* | 0.003\* | 0.797 | 0.132 | 0.012. |
|  | overlap | 0.8 | 0.85 | 0.69 | 0.88 | 0.9 | 0.91 |
|  | p | 0.003\* | 0.048. | 0.003\* | 0.117 | 0.839 | 1 |
| *Lasiorhinus* | diff | 0.005 | -0.006 | 0.042 | 0.119 | -0.042 | 0.03 |
|  | p | 1 | 1 | 0.003\* | 0.003\* | 0.006\* | 0.06 |
|  | overlap | 0.9 | 0.9 | 0.87 | 0.52 | 0.88 | 0.88 |
|  | p | 0.812 | 1 | 0.078 | 0.003\* | 0.414 | 0.384 |