Appendix S1



Figure S1: Net Relatedness Index (NRI) for assemblages of Tyranidae at different latitudes.

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Figure S2: Species richness gradient for the 392 species of Tyrannidae.

**Appendix S2**

**Table S1.** Log likelihood (LnL), Number of parameters, AIC and AIC weight of the six models of ancestral range estimation evaluated from the BioGeoBEARS analyses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Models | Log likelihood (LnL) | Number of parameters | AIC | AIC\_wt |
| DEC | -1872 | 2 | 3748 | 8.7e-107 |
| DEC+J | -1872 | 3 | 3750 | 3.1e-107 |
| DIVALIKE | -2002 | 2 | 4009 | 2.4e-163 |
| DIVALIKE+J | -2003 | 3 | 4011 | 7.6e-164 |
| BAYAREALIKE | -1660 | 2 | 3323 | 1.7e-14 |
| BAYAREALIKE+J | -1627 | 3 | 3260 | 1.00 |