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| **Table S4.** Best model based on AICc for every combination of phylogenetic hypothesis and map source and their respective adjusted R2. JT = *birdtree.org* MCC tree; ML = Maximum Likelihood tree; BI = Bayesian Inference; ENM = Ecological Niche Model. |
| **Dataset / Best model** | **R2** |
| *JT tree / BirdLife maps* |  |
| Range Size ~ HWI‡ + Habitat\* (F2,40 = 5.14; p = 0.01) | 0.164 |
| *JT tree / ENM maps* |  |
| Range Size ~ HWI† (F1,41 = 4.57; p = 0.038) | 0.078 |
| *ML tree / BirdLife maps* |  |
| Range Size ~ HWI† (F1,40 = 5.64; p = 0.022) | 0.101 |
| *ML tree / ENM maps* |  |
| Range Size ~ HWI† (F1,40 = 4.38; p = 0.042) | 0.076 |
| *BI tree / BirdLife maps* |  |
| Range Size ~ HWI\* + Habitat† (F2,37 = 4.62; p = 0.016) | 0.156 |
| *BI tree / ENM maps* |  |
| Range Size ~ HWI\* (F1,38 = 3.47; p = 0.07) | 0.059 |
| *\* 0.1 < p < 0.05*† *p < 0.05* ‡ *p < 0.01* |  |  |