| **Model** | **Parameter** | **Posterior Median Log-Odds [90% Highest-Density Interval], Probability of Direction** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Achromatic** | | | **Chromatic** | | |
| **1 JND** | **2 JND** | **3 JND** | **1 JND** | **2 JND** | **3 JND** |
| Breeding Timing |  |  |  |  |  |  |  |
|  | Intercept | -1.16 [-3.87, 1.67], pd = 0.76 | -8.36 [-16.28, -0.62], pd = 0.98 | -7.81 [-14.83, -1.66], pd = 0.99 | -0.88 [-2.98, 1.03], pd = 0.78 | -7.21 [-15.29, 0.55], pd = 0.95 | -12.71 [-28.03, 0.31], pd = 0.96 |
|  | Breeding Season Length1 | -0.06 [-0.62, 0.56], pd = 0.57 | **-2.26 [-4.72, 0.05], pd = 0.97** | **-1.39 [-3.56, 0.4], pd = 0.91** | -0.12 [-0.59, 0.34], pd = 0.66 | **-1.99 [-4.64, 0.35], pd = 0.94** | -2.5 [-8.12, 2.21], pd = 0.83 |
|  | Partial Migration vs. No Migration2 | -0.04 [-1.16, 1.01], pd = 0.53 | 1.41 [-1.2, 4.12], pd = 0.83 | 1.29 [-0.82, 3.57], pd = 0.85 | **0.79 [-0.06, 1.59], pd = 0.94** | 1.9 [-0.87, 4.9], pd = 0.88 | **4.26 [-1.13, 10.99], pd = 0.92** |
|  | Full Migration vs. No Migration3 | **1.6 [-0.05, 3.19], pd = 0.96** | **4.2 [1.16, 7.5], pd = 0.99** | **3.11 [0.46, 5.73], pd = 0.98** | 0.83 [-0.37, 1.99], pd = 0.88 | **4.39 [1.03, 8.14], pd = 0.99** | **5.46 [-0.68, 12.61], pd = 0.95** |
|  | Breeding Season Length x Partial Migration | 0.29 [-0.73, 1.37], pd = 0.68 | **3.03 [-0.14, 6.38], pd = 0.96** | **2.11 [-0.27, 4.69], pd = 0.94** | 0.33 [-0.43, 1.14], pd = 0.76 | **2.2 [-0.82, 5.53], pd = 0.9** | 3.54 [-2.58, 11.13], pd = 0.85 |
|  | Breeding Season Length x Full Migration | **1.58 [-0.4, 3.68], pd = 0.9** | **4.19 [-0.53, 9.34], pd = 0.93** | 2.8 [-1.3, 6.72], pd = 0.89 | 0.52 [-1.16, 2.12], pd = 0.7 | **5.08 [-0.18, 11.12], pd = 0.95** | 6.07 [-4.27, 17.43], pd = 0.85 |
|  | Phylogenetic Signal λ, Median [90% Credible Interval] | 0.29 [0.16, 0.43] | 0.72 [0.56, 0.86] | 0.61 [0.42, 0.8] | 0.17 [0.08, 0.28] | 0.74 [0.57, 0.88] | 0.89 [0.77, 0.97] |
| Breeding Spacing |  |  |  |  |  |  |  |
|  | Intercept | -1.94 [-6.01, 2.01], pd = 0.8 | -9.77 [-20.11, 0.89], pd = 0.95 | -10.31 [-19.2, -1.98], pd = 0.98 | -0.67 [-3.63, 2.27], pd = 0.65 | -8.32 [-18.86, 2.03], pd = 0.92 | -12.87 [-30.57, 4.41], pd = 0.91 |
|  | Island vs. Mainland4 | 0.08 [-1.38, 1.57], pd = 0.54 | -0.64 [-4.43, 2.88], pd = 0.61 | -0.09 [-3.02, 2.96], pd = 0.52 | **-1.3 [-2.45, -0.12], pd = 0.97** | -3.39 [-8.67, 1.38], pd = 0.89 | -3.26 [-12.57, 4.21], pd = 0.77 |
|  | Breeding Range Size | 0.08 [-0.13, 0.28], pd = 0.75 | 0.21 [-0.27, 0.7], pd = 0.77 | 0.26 [-0.14, 0.66], pd = 0.87 | 0.02 [-0.14, 0.18], pd = 0.58 | 0.21 [-0.29, 0.72], pd = 0.77 | 0.23 [-0.62, 1.1], pd = 0.69 |
|  | Phylogenetic Signal λ, Median [90% Credible Interval] | 0.27 [0.15, 0.41] | 0.71 [0.56, 0.85] | 0.6 [0.42, 0.77] | 0.15 [0.07, 0.25] | 0.72 [0.55, 0.86] | 0.85 [0.71, 0.95] |
| Breeding Sympatry |  |  |  |  |  |  |  |
|  | Intercept | -0.9 [-3.45, 1.76], pd = 0.72 | -6.89 [-14.7, -0.02], pd = 0.95 | -6.74 [-13.39, -1.09], pd = 0.98 | -1.38 [-3.25, 0.3], pd = 0.91 | -6.34 [-13.61, 0.11], pd = 0.95 | -11.29 [-22.79, -1.24], pd = 0.98 |
|  | Number of Sympatric Species   (≥ 30% Breeding Range Overlap) | 0.03 [-0.18, 0.24], pd = 0.61 | 0.14 [-0.31, 0.56], pd = 0.71 | 0.12 [-0.27, 0.49], pd = 0.71 | **0.34 [0.17, 0.51], pd = 1** | **0.46 [0.01, 0.92], pd = 0.96** | **0.75 [0.03, 1.5], pd = 0.97** |
|  | Phylogenetic Signal λ, Median [90% Credible Interval] | 0.26 [0.14, 0.39] | 0.7 [0.54, 0.83] | 0.59 [0.41, 0.77] | 0.13 [0.06, 0.23] | 0.69 [0.52, 0.83] | 0.82 [0.67, 0.94] |
| 1Length of breeding season in months | | | | | | | |
| 2Altitudinal migration and localized movements during non-breeding season | | | | | | | |
| 3Consistent long-distance migration to and from breeding grounds | | | | | | | |
| 4Natural-log transformed square kilometers | | | | | | | |