Table S6

Summary of random effects model structures evaluated.

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| --- | --- | --- | --- |
| **Model** | **Df** | **AIC** | **Δ AIC** |
| sk\_eye ~ 1 + (1 | site.year.species) | 2 | 1422 | 0 |
| sk\_eye ~ 1 + (1 | site.year) | 2 | 1429 | -6 |
| sk\_eye ~ 1 + (1 | yrfactor) + (1 | regionfactor/refuge/site\_id/species) | 6 | 1447 | -25 |
| sk\_eye ~ 1 + (1 | yrfactor) + (1 | regionfactor/site\_id/species) | 5 | 1470 | -48 |
| sk\_eye ~ 1 + (yrfactor | site.species) | 56 | 1490 | -68 |
| sk\_eye ~ 1 + (yrfactor | site\_id) | 56 | 1491 | -69 |
| sk\_eye ~ 1 + (1 | site.species) | 2 | 1500 | -77 |
| sk\_eye ~ 1 + (1 | yrfactor) + (1 | regionfactor) + (1 | site\_id) + (1 | species) | 5 | 1510 | -88 |
| sk\_eye ~ 1 + (yrfactor | site.year) | 56 | 1525 | -103 |
| sk\_eye ~ 1 + (1 | yrfactor) + (1 | site\_id) | 3 | 1536 | -114 |
| sk\_eye ~ 1 + (1 | yrfactor) + (1 | site\_id) + (1 | species) | 4 | 1537 | -115 |
| sk\_eye ~ 1 + (yrfactor | site\_id/species) | 111 | 1584 | -161 |
| sk\_eye ~ 1 + (1 | yrfactor) + (1 | refuge) | 3 | 1750 | -327 |