**Appendix 2 Model comparisons**

**Evju & Sverdrup-Thygeson 2016: Spatial configuration matters – a test of the Habitat Amount Hypothesis for plants in calcareous grasslands**

Model comparison of 13 alternative linear mixed models of species richness in the sample quadrat as function of habitat amount in a 3 km-radius of the focal patch, patch size, distance to nearest neighbour patch and two-way interactions, with number of parameters (K), Akaike Information Criterion (AICc), difference in AICc from the best model (ΔAICc) ranked according to AICc weight. H is habitat amount, S is patch size of the focal patch, and D is distance to the nearest neighbour patch. Predictor and response variables were centred and scaled prior to analysis (see the text for details).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Rank | Model | K | AICc | ΔAICc | AICc weight | Cumulative AICc weight |
| 1 | H + S | 5 | 540.86 | 0.00 | 0.469 | 0.469 |
| 2 | H + S + H×S | 6 | 541.95 | 1.09 | 0.272 | 0.740 |
| 3 | H | 4 | 544.47 | 3.61 | 0.077 | 0.817 |
| 4 | H + S + D | 6 | 544.95 | 4.09 | 0.061 | 0.878 |
| 5 | H + S + D + H×S | 7 | 545.33 | 4.47 | 0.050 | 0.928 |
| 6 | H + D | 5 | 546.45 | 5.59 | 0.029 | 0.956 |
| 7 | H + D + H×D | 6 | 547.52 | 6.66 | 0.017 | 0.973 |
| 8 | H + S + D + H×D | 7 | 548.21 | 7.35 | 0.012 | 0.985 |
| 9 | H + S + D + S×D | 7 | 549.16 | 8.30 | 0.007 | 0.993 |
| 10 | H + S + D + H×S + H×D | 8 | 550.48 | 9.62 | 0.004 | 0.996 |
| 11 | H + S + D + H×S + S×D | 8 | 551.07 | 10.21 | 0.003 | 0.999 |
| 12 | H + S + D + H×D + S×D | 8 | 553.95 | 13.09 | 0.001 | 1.000 |
| 13 | H + S + D + H×S + H×D + S×D | 9 | 557.29 | 16.43 | 0.000 | 1.000 |