Supplementary file 3

Model AIC values. Table showing AIC of the models tested. The first model (m1) is always the full model with all explanatory variables and the two-way interaction between those variables. Variables and interactions are shown for each model and the following abbreviations are used; “treesp” = tree species, “canopyc” = canopy cover. Interactions are shown with “:” between variables. The “best” model (lowest AIC) and alternative plausible models (∆AIC <2) are given in bold.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
| **Bryophytes** |  |  |  |
| Model | Included explanatory variables | df | AIC | ∆AIC |
| bm1 | treesp+age+canopyc+treesp:age+treesp:canopyc+age:canopyc | 11 | -192.84 | 5.25 |
| bm2 | treesp+age+canopyc+treesp:age+treesp:canopyc | 10 | -194.57 | 3.51 |
| bm3 | treesp+age+canopyc+treesp:age | 8 | -196.93 | **1.15** |
| bm4 | treesp+age+teesp:age | 7 | -198.09 | **0.00** |
| bm\_null | 2 | -181.02 | 17.06 |
| **Lichens** |  |  |  |  |
| Model |  | df | AIC | ∆AIC |
| lm1 | treesp+age+canopyc+treesp:age+treesp:canopyc+age:canopyc | 11 | -692.32 | **1.93** |
| lm2 | treesp+age+canopyc+treesp:age+treesp:canopyc | 10 | -694.25 | **0.00** |
| lm3 | treesp+age+canopyc+treesp:canopyc | 8 | -693.93 | **0.32** |
| lm4 | treesp+age+canopyc | 6 | -678.03 | 16.21 |
| lm\_null |  | 2 | -660.32 | 33.93 |
| **Eudicots** |  |  |  |
| Model |  | df | AIC | ∆AIC |
| em1 | treesp+age+canopyc+treesp:age+treesp:canopyc+age:canopyc | 11 | -122.81 | 6.81 |
| em2 | treesp+age+canopyc+treesp:age+treesp:canopyc | 10 | -124.58 | 5.04 |
| em3 | treesp+age+canopyc+treesp:age | 8 | -128.24 | **1.38** |
| em4 | treesp+age+treesp:age | 7 | -129.17 | **0.44** |
| em5 | treesp+age | 5 | -129.62 | **0.00** |
| em\_null | 2 | -92.28 | 37.34 |
| **Grasses** |  |  |  |  |
| Model |  | df | AIC | ∆AIC |
| gm1 | treesp+age+canopyc+treesp:age+treesp:canopyc+age:canopyc | 11 | -269.08 | **0.00** |
| gm2 | treesp+age+canopyc+treesp:age+treesp:canopyc | 10 | -269.07 | **0.01** |
| gm3 | treesp+age+canopyc+treesp:age | 8 | -262.30 | 6.79 |
| gm4 | treesp+age+canopyc | 6 | -259.89 | 9.19 |
| gm\_null |  | 2 | -210.19 | 58.90 |
| **Total Vascular Plants (TVP)** |  |  |  |
| Model |  | df | AIC | ∆AIC |
| vm1 | treesp+age+canopyc+treesp:age+treesp:canopyc+age:canopyc | 11 | -126.14 | **1.88** |
| vm2 | treesp+age+canopyc+treesp:age+treesp:canopyc | 10 | -128.02 | **0.00** |
| vm3 | treesp+age+canopyc+treesp:age | 8 | -126.46 | **1.56** |
| vm4 | treesp+age+canopyc | 6 | -120.38 | 7.64 |
| vm\_null |  | 2 | -78.54 | 49.48 |
| **No vegetation** |  |  |  |
| Model |  | df | AIC | ∆AIC |
| nm1 | treesp+age+canopyc+treesp:age+treesp:canopyc+age:canopyc | 11 | -448.65 | 2.10 |
| nm2 | treesp+age+canopyc+treesp:age+treesp:canopyc | 10 | -450.10 | **0.65** |
| nm3 | treesp+age+canopyc+treesp:age | 8 | -450.75 | **0.00** |
| nm4 | treesp + age + canopyc | 6 | -449.37 | **1.38** |
| nm\_null | 2 | -357.57 | 93.18 |

 |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |