| mod\_name | mod\_formula | AICc | delta | model\_df | deviance | d2 | residual\_df | lr\_chisq | chisq\_df | p\_value\_chisq | lr\_signif | best\_model\_candidate | best\_model |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| null | n\_abundance ~ 1 | 826.99 | 122.25 | 2 | 822.83 | 1.00 | 77 | 0.00 | 0 | 1.00 |  | FALSE | FALSE |
| elevation | n\_abundance ~ poly(elevation\_mean, 1) | 729.85 | 25.11 | 3 | 723.53 | 0.12 | 76 | 99.30 | 1 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation-poly | n\_abundance ~ poly(elevation\_mean, 2) | 713.64 | 8.91 | 4 | 705.10 | 0.14 | 75 | 117.73 | 2 | 0.00 | \*\*\* | FALSE | FALSE |
| region | n\_abundance ~ regions | 825.11 | 120.37 | 4 | 816.57 | 0.01 | 75 | 6.26 | 2 | 0.04 | \* | FALSE | FALSE |
| season | n\_abundance ~ seasons | 829.05 | 124.31 | 3 | 822.73 | 0.00 | 76 | 0.10 | 1 | 0.75 |  | FALSE | FALSE |
| elevation + region | n\_abundance ~ poly(elevation\_mean, 1) + regions | 730.45 | 25.72 | 5 | 719.63 | 0.12 | 74 | 103.20 | 3 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation \* region | n\_abundance ~ poly(elevation\_mean, 1) + regions + poly(elevation\_mean, 1):regions | 725.01 | 20.27 | 7 | 709.43 | 0.14 | 72 | 113.40 | 5 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation + season | n\_abundance ~ poly(elevation\_mean, 1) + seasons | 732.07 | 27.33 | 4 | 723.53 | 0.12 | 75 | 99.30 | 2 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation \* season | n\_abundance ~ poly(elevation\_mean, 1) + seasons + poly(elevation\_mean, 1):seasons | 733.72 | 28.98 | 5 | 722.90 | 0.12 | 74 | 99.94 | 3 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation-poly + region | n\_abundance ~ poly(elevation\_mean, 2) + regions | 716.50 | 11.76 | 6 | 703.33 | 0.14 | 73 | 119.50 | 4 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation-poly \* region | n\_abundance ~ poly(elevation\_mean, 2) + regions + poly(elevation\_mean, 2):regions | 704.74 | 0.00 | 10 | 681.50 | 0.17 | 69 | 141.33 | 8 | 0.00 | \*\*\* | TRUE | TRUE |
| elevation-poly + season | n\_abundance ~ poly(elevation\_mean, 2) + seasons | 715.92 | 11.18 | 5 | 705.10 | 0.14 | 74 | 117.73 | 3 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation-poly \* season | n\_abundance ~ poly(elevation\_mean, 2) + seasons + poly(elevation\_mean, 2):seasons | 719.47 | 14.74 | 7 | 703.90 | 0.14 | 72 | 118.94 | 5 | 0.00 | \*\*\* | FALSE | FALSE |
| region + season | n\_abundance ~ regions + seasons | 827.37 | 122.63 | 5 | 816.55 | 0.01 | 74 | 6.28 | 3 | 0.10 |  | FALSE | FALSE |
| region \* season | n\_abundance ~ regions + seasons + regions:seasons | 829.90 | 125.16 | 7 | 814.32 | 0.01 | 72 | 8.51 | 5 | 0.13 |  | FALSE | FALSE |
| elevation + region + season | n\_abundance ~ poly(elevation\_mean, 1) + regions + seasons | 732.79 | 28.05 | 6 | 719.62 | 0.12 | 73 | 103.21 | 4 | 0.00 | \*\*\* | FALSE | FALSE |
| (elevation + region) \* season | n\_abundance ~ poly(elevation\_mean, 1) + regions + seasons + poly(elevation\_mean, 1):seasons + regions:seasons | 735.26 | 30.53 | 9 | 714.66 | 0.13 | 70 | 108.18 | 7 | 0.00 | \*\*\* | FALSE | FALSE |
| (elevation \* region) + season | n\_abundance ~ poly(elevation\_mean, 1) + regions + seasons + poly(elevation\_mean, 1):regions | 727.49 | 22.75 | 8 | 709.43 | 0.14 | 71 | 113.40 | 6 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation \* region \* season | n\_abundance ~ poly(elevation\_mean, 1) + regions + seasons + poly(elevation\_mean, 1):regions + poly(elevation\_mean, 1):seasons + regions:seasons + poly(elevation\_mean, 1):regions:seasons | 727.36 | 22.62 | 13 | 695.76 | 0.15 | 66 | 127.08 | 11 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation-poly + region + season | n\_abundance ~ poly(elevation\_mean, 2) + regions + seasons | 718.91 | 14.17 | 7 | 703.33 | 0.14 | 72 | 119.50 | 5 | 0.00 | \*\*\* | FALSE | FALSE |
| (elevation-poly + region) \* season | n\_abundance ~ poly(elevation\_mean, 2) + regions + seasons + poly(elevation\_mean, 2):seasons + regions:seasons | 722.63 | 17.89 | 11 | 696.69 | 0.15 | 68 | 126.14 | 9 | 0.00 | \*\*\* | FALSE | FALSE |
| (elevation-poly \* region) + season | n\_abundance ~ poly(elevation\_mean, 2) + regions + seasons + poly(elevation\_mean, 2):regions | 707.13 | 2.39 | 11 | 681.19 | 0.17 | 68 | 141.64 | 9 | 0.00 | \*\*\* | FALSE | FALSE |
| elevation-poly \* region \* season | n\_abundance ~ poly(elevation\_mean, 2) + regions + seasons + poly(elevation\_mean, 2):regions + poly(elevation\_mean, 2):seasons + regions:seasons + poly(elevation\_mean, 2):regions:seasons | 711.21 | 6.48 | 19 | 660.33 | 0.20 | 60 | 162.50 | 17 | 0.00 | \*\*\* | FALSE | FALSE |