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|   |   | Regional scale | Grassland types |
|   |  | Desert steppe | Typical steppe | Meadow steppe |
| Model characteristics | r2 | 0.26 | 0.23 | 0.22 | 0.34 |
| rlogLik | 385.98 | 33.86 | 184.31 | 125.80 |
| AIC | -737.95 | -33.73 | -334.63 | -217.60 |
| BIC | -668.09 | 5.67 | -276.55 | -166.42 |
| Vegetation | PB | -0.01 ± 0.01 (0.082) | 0.00 ± 0.01 (0.765) | 0.00 ± 0.01 (0.845) | -0.01 ± 0.01 (0.424) |
| PC | -0.01 ± 0.01 (0.100) | 0.01 ± 0.02 (0.600) | 0.00 ± 0.01 (0.873) | **-0.02 ± 0.01 (0.040)** |
| PD | -0.01 ± 0.01 (0.123) | -0.04 ± 0.02 (0.056) | 0.00 ± 0.01 (0.859) | 0.01 ± 0.01 (0.084) |
| PH | 0.01 ± 0.01 (0.103) | 0.00 ± 0.02 (0.839) | 0.00 ± 0.01 (0.976) | **-0.03 ± 0.01 (0.014)** |
| PSD | 0.00 ± 0.01 (0.595) | -0.01 ± 0.02 (0.696) | -0.01 ± 0.01 (0.376) | 0.00 ± 0.01 (0.615) |
| Soil | SBD | -0.01 ± 0.01 (0.315) | 0.01 ± 0.01 (0.358) | -0.01 ± 0.01 (0.384) | -0.00 ± 0.01 (0.877) |
| SL | -0.00 ± 0.01 (0.529) | 0.02 ± 0.01 (0.181) | -0.01 ± 0.01 (0.212) | 0.00 ± 0.01 (0.796) |
| SM | -0.01 ± 0.01 (0.261) | 0.01 ± 0.01 (0.417) | -0.00 ± 0.01 (0.859) | 0.01 ± 0.01 (0.530) |
| ST | **-0.02 ± 0.01 (0.016)** | -0.01 ± 0.03 (0.730) | -0.01 ± 0.01 (0.121) | 0.02 ± 0.01 (0.070) |
| Climate | Hum | **0.02 ± 0.01 (0.004)** | **0.06 ± 0.02 (0.009)** | **0.03 ± 0.01 (0.003)** | -0.00 ± 0.01 (0.730) |
| Prec | **0.01 ± 0.01 (0.025)** | -0.06 ± 0.03 (0.077) | 0.01 ± 0.01 (0.255) | 0.02 ± 0.01 (0.060) |
| Temp | **0.03 ± 0.01 (<0.0001)** | 0.02 ± 0.02 (0.449) | **0.05 ± 0.01 (<0.0001)** | **0.03 ± 0.01 (0.006)** |
|  | Intercept | **0.12 ± 0.00 (<0.0001)** | **0.05 ± 0.01 (<0.0001)** | **0.14 ± 0.01 (<0.0001)** | **0.12 ± 0.01 (<0.0001)** |