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|   |   | Regional scale | Grassland types |
|   |  | Desert steppe | Typical steppe | Meadow steppe |
| Model characteristics | r2 | 0.30 | 0.21 | 0.28 | 0.41 |
| rlogLik | 356.18 | 42.08 | 158.86 | 114.91 |
| AIC | -678.35 | -50.17 | -283.73 | -195.82 |
| BIC | -608.50 | -10.77 | -225.65 | -144.64 |
| Vegetation | PB | **-0.02 ± 0.01 (0.002)** | 0.01 ± 0.01 (0.225) | -0.00 ± 0.01 (0.829) | **-0.02 ± 0.01 (0.039)** |
| PC | -0.01 ± 0.01 (0.111) | 0.01 ± 0.02 (0.526) | 0.01 ± 0.01 (0.449) | **-0.02 ± 0.01 (0.017)** |
| PD | -0.00 ± 0.01 (0.563) | -0.03 ± 0.02 (0.080) | 0.01 ± 0.01 (0.162) | 0.01 ± 0.01 (0.326) |
| PH | 0.01 ± 0.01 (0.149) | 0.01 ± 0.02 (0.682) | 0.00 ± 0.01 (0.908) | 0.02 ± 0.01 (0.070) |
| PSD | 0.01 ± 0.01 (0.386) | -0.01 ± 0.01 (0.288) | -0.00 ± 0.01 (0.555) | 0.01 ± 0.01 (0.094) |
| Soil | SBD | -0.01 ± 0.01 (0.386) | 0.01 ± 0.01 (0.302) | -0.01 ± 0.01 (0.270) | -0.00 ± 0.01 (0.663) |
| SL | 0.00 ± 0.01 (0.528) | 0.02 ± 0.01 (0.158) | -0.01 ± 0.01 (0.479) | 0.01 ± 0.01 (0.297) |
| SM | -0.01 ± 0.01 (0.140) | 0.01 ± 0.01 (0.365) | -0.00 ± 0.01 (0.710) | 0.01 ± 0.01 (0.450) |
| ST | **-0.02 ± 0.01 (0.013)** | -0.01 ± 0.03 (0.790) | **-0.02 ± 0.01 (0.021)** | **0.03 ± 0.01 (0.031)** |
| Climate | Hum | 0.01 ± 0.01 (0.125) | **0.05 ± 0.02 (0.016)** | **0.03 ± 0.01 (0.025)** | -0.01 ± 0.01 (0.486) |
| Prec | **0.02 ± 0.01 (0.002)** | -0.05 ± 0.03 (0.065) | 0.02 ± 0.01 (0.051) | **0.02 ± 0.01 (0.049)** |
| Temp | **0.03 ± 0.01 (<0.0001)** | 0.02 ± 0.02 (0.411) | **0.06 ± 0.01 (<0.0001)** | 0.02 ± 0.01 (0.062) |
|  | Intercept | **0.12 ± 0.00 (<0.000)** | **0.04 ± 0.01 (<0.0001)** | **0.15 ± 0.01 (<0.0001)** | **0.13 ± 0.01 (<0.0001)** |