|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Across pair | | | | | | | | | | | | |  | Within pair | |
|  | Univariate | | | | | | | |  | Multivariate | | | |  | Univariate | Multivariate |
|  | 5% | | 20% | | 50% | | 80% | |  | 5% | 20% | 50% | 80% |  | 20% | 20% |
|  | β | AIC | β | AIC | β | AIC | β | AIC |  | β | β | β | β |  | β | β |
| NPP | 0.166\*\* | 1354.9 | 0.208\*\* | 1201.8 | 0.226\*\* | 990.6 | 0.392\*\*\* | 679.8 |  | 0.427\*\* | 0.409\* | 0.497\*\* | 0.652\*\* |  | 0.308\*\* | 0.976\*\* |
| NPP2 | 0.17\*\* |  | 0.211\*\* |  | 0.15\* |  | 0.167 |  |  | 0.189\*\* | 0.195\* | 0.114 | 0.135 |  | 0.33\*\* | 0.36\*\* |
| Precipitation seasonality | -0.132\* | 1361.8 | -0.263\*\*\* | 1205.9 | -0.269\*\*\* | 991.1 | -0.374\*\*\* | 687.0 |  | 0.148 | 0.02 | 0.065 | 0.102 |  | -0.365\*\* | 0.074 |
| Elevation range | -0.154\* | 1335.6 | -0.034 | 1168.6 | -0.183\* | 974.5 | -0.268\*\* | 690.7 |  | -0.211\* | -0.078 | -0.269\* | -0.316\* |  | -0.137 | -0.37\* |
| Elevation range2 | 0.338\*\*\* |  | 0.421\*\*\* |  | 0.365\*\*\* |  | 0.268\*\*\* |  |  | 0.345\*\*\* | 0.44\*\*\* | 0.388\*\*\* | 0.316\*\*\* |  | 0.447\*\*\* | 0.513\*\*\* |
| Temperature | 0.058 | 1365.7 | 0.004 | 1219.5 | 0.061 | 1001.4 | 0.275\* | 693.6 |  | -0.269 | -0.285 | -0.369 | -0.221 |  | -0.096 | -0.784\*\* |
| LGM temperature anomaly | -0.253\* | 1364.7 | -0.411\*\*\* | 1209.8 | -0.484\*\*\* | 989.3 | -0.586\*\*\* | 690.6 |  | -0.182 | -0.357\* | -0.412\* | -0.401 |  | 0.017 | -0.087 |
| LGM temperature anomaly2 | 0.087\* |  | 0.147\*\* |  | 0.181\*\*\* |  | 0.206\*\*\* |  |  | 0.074 | 0.136\*\* | 0.157\*\* | 0.195\*\* |  | 0.01 | 0.005 |
| HWI | 0.078 | 1365.6 | 0.055 | 1218.6 | -0.044 | 1001.8 | -0.146 | 697.9 |  | 0.113 | 0.107 | 0.000 | -0.068 |  |  |  |
| Age | 0.521\*\*\* | 1346.5 | 0.588\*\*\* | 1196.1 | 0.657\*\*\* | 978.5 | 0.783\*\*\* | 682.0 |  | 0.521\*\*\* | 0.615\*\*\* | 0.655\*\*\* | 0.755\*\*\* |  |  |  |

Numbers are z-values; 2 denotes quadraticeffect; AIC is Akaike Information Criterion; stars represent significance levels at *P* < 0.05 (\*), 0.01 (\*\*), 0.001 (\*\*\*). Values are the median across N = 100 trees.