Supplemental Table 1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Region | 　 |  Axis 1 |  Axis 2 | Axis 3 | Axis 4 | Total inertia |
| WC | Eigenvalues | 0.431 | 0.087 | 0.032 | 0.237 |  |
|  | Species–environment correlations  | 0.926 | 0.592 | 0.586 | 0.000 |  |
|  | Cumulative percentage variance |  |  |  |  |  |
|  | of response data | 12.0 | 14.5 | 15.3 | 22.0 |  |
|  | of species–environment relation | 78.4 | 94.2 | 100.0 | 0.0 |  |
|  | Sum of all eigenvalues |  |  |  |  | 3.580 |
|  | Sum of all canonical eigenvalues |  |  |  |  | 0.549 |
|  | Inter-set correlations of  |  |  |  |  |  |
|  | climate variables with axes |  |  |  |  |  |
|  | PANN | 0.91 | -0.12 | -0.01 | 0.00 |  |
|  | MTCO | 0.80 | 0.29 | -0.06 | 0.00 |  |
|  | GDD5 | 0.77 | 0.20 | 0.26 | 0.00 |  |
|  |  |  |  |  |  |  |
| NEC | Eigenvalues | 0.120 | 0.036 | 0.018 | 0.227 |  |
|  | Species–environment correlations  | 0.682 | 0.614 | 0.606 | 0.000 |  |
|  | Cumulative percentage variance |  |  |  |  |  |
|  | of response data | 12.0 | 15.6 | 17.4 | 40.1 |  |
|  | of species–environment relation | 69.1 | 89.7 | 100.0 | 0.0 |  |
|  | Sum of all eigenvalues |  |  |  |  | 1.000 |
|  | Sum of all canonical eigenvalues |  |  |  |  | 0.174 |
|  | Inter-set correlations of  |  |  |  |  |  |
|  | climate variables with axes |  |  |  |  |  |
|  | PANN | -0.62 | -0.12 | -0.21 | 0.00 |  |
|  | MTCO | -0.53 | 0.11 | 0.36 | 0.00 |  |
|  | TANN | -0.44 | 0.44 | 0.14 | 0.00 |  |
|  |  |  |  |  |  |  |
| ECC | Eigenvalues | 0.068 | 0.051 | 0.010 | 0.226 |  |
|  | Species–environment correlations  | 0.616 | 0.584 | 0.472 | 0.000 |  |
|  | Cumulative percentage variance |  |  |  |  |  |
|  | of response data | 6.8 | 12.0 | 13.0 | 35.7 |  |
|  | of species–environment relation | 52.5 | 92.0 | 100.0 | 0.0 |  |
|  | Sum of all eigenvalues |  |  |  |  | 1.000 |
|  | Sum of all canonical eigenvalues |  |  |  |  | 0.130 |
|  | Inter-set correlations of  |  |  |  |  |  |
|  | climate variables with axes |  |  |  |  |  |
|  | MTWA | -0.46 | 0.38 | -0.02 | 0.00 |  |
|  | PANN | 0.47 | 0.34 | 0.13 | 0.00 |  |
|  | Alpha | 0.45 | 0.14 | -0.30 | 0.00 |  |
|  |  |  |  |  |  |  |
| SC | Eigenvalues | 0.188 | 0.045 | 0.018 | 0.133 |  |
|  | Species–environment correlations  | 0.854 | 0.618 | 0.493 | 0.000 |  |
|  | Cumulative percentage variance |  |  |  |  |  |
|  | of response data | 7.6 | 9.4 | 10.2 | 15.5 |  |
|  | of species–environment relation | 74.9 | 92.7 | 100.0 | 0.0 |  |
|  | Sum of all eigenvalues |  |  |  |  | 2.474 |
|  | Sum of all canonical eigenvalues |  |  |  |  | 0.251 |
|  | Inter-set correlations of  |  |  |  |  |  |
|  | climate variables with axes |  |  |  |  |  |
|  | TANN | -0.77 | 0.26 | -0.08 | 0.00 |  |
|  | GDD5 | -0.76 | 0.11 | 0.20 | 0.00 |  |
|  | PANN | -0.60 | -0.44 | -0.01 | 0.00 |  |
|  |  |  |  |  |  |  |
| NWC | Eigenvalues | 0.119 | 0.011 | 0.005 | 0.143 |  |
|  | Species–environment correlations  | 0.788 | 0.335 | 0.263 | 0.000 |  |
|  | Cumulative percentage variance |  |  |  |  |  |
|  | of response data | 11.9 | 13.0 | 13.5 | 27.7 |  |
|  | of species–environment relation | 88.1 | 96.4 | 100.0 | 0.0 |  |
|  | Sum of all eigenvalues |  |  |  |  | 1.000 |
|  | Sum of all canonical eigenvalues |  |  |  |  | 0.135 |
|  | Inter-set correlations of  |  |  |  |  |  |
|  | climate variables with axes |  |  |  |  |  |
|  | PANN | 0.76 | 0.07 | 0.04 | 0.00 |  |
|  | Alpha | 0.72 | -0.06 | -0.09 | 0.00 |  |
|  | TANN | -0.52 | 0.24 | -0.06 | 0.00 |  |
|  |  |  |  |  |  |  |
| TP | Eigenvalues | 0.224 | 0.072 | 0.015 | 0.205 |  |
|  | Species–environment correlations  | 0.868 | 0.641 | 0.427 | 0.000 |  |
|  | Cumulative percentage variance |  |  |  |  |  |
|  | of response data | 10.5 | 13.9 | 14.6 | 24.2 |  |
|  | of species–environment relation | 71.8 | 95.0 | 100.0 | 0.0 |  |
|  | Sum of all eigenvalues |  |  |  |  | 2.134 |
|  | Sum of all canonical eigenvalues |  |  |  |  | 0.312 |
|  | Inter-set correlations of  |  |  |  |  |  |
|  | climate variables with axes |  |  |  |  |  |
|  | PANN | -0.81 | 0.23 | -0.01 | 0.00 |  |
|  | Alpha | -0.79 | -0.08 | -0.16 | 0.00 |  |
| 　 | MTWA | 0.51 | 0.45 | -0.17 | 0.00 | 　 |