Supp Table 2.

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| --- | --- | --- | --- | --- | --- | --- |
| **Independent Variable** | **Dependent Variable** | **Regression coefficient** | **Standard error** | **T-value** | ***p*-value** | **Adjusted**  ***p*-value** |
| C-Score (Plants) | Mean annual temperature (**°**C) (MAT) | -0.002382 | 0.005262 | -0.453 | 0.653 | 0.7183 |
| C-Score (Plants) | Mean annual precipitation cm/year (MAP) | -7.744e-05 | 5.911e-05 | -1.310 | 0.2 | 0.532156 |
| C-Score (DTs) | MAT | 0.004800 | 0.005453 | 0.880 | 0.38389 | 0.640055 |
| C-Score (DTs) | MAP | 5.673e-05 | 6.529e-05 | 0.869 | 0.39178 | 0.640055 |
| Connectance | MAT | -0.008811 | 0.003502 | -2.516 | 0.0159 \* | 0.071133 |
| Connectance | MAP | 1.794e-06 | 3.221e-05 | 0.056 | 0.955952 | 0.955952 |
| Interaction evenness | MAT | 0.0007721 | 0.0019354 | 0.399 | 0.692 | 0.724952 |
| Interaction evenness | MAP | 2.334e-05 | 2.497e-05 | 0.935 | 0.357 | 0.640055 |
| Niche overlap (Plants) | MAT | -0.003833 | 0.004943 | -0.775 | 0.443 | 0.649733 |
| Niche overlap (Plants) | MAP | 9.631e-05 | 5.218e-05 | 1.846 | 0.07481 | 0.235117 |
| Niche overlap (DTs) | MAT | -0.006814 | 0.005939 | -1.147 | 0.258 | 0.5676 |
| Niche overlap (DTs) | MAP | -5.594e-05 | 6.657e-05 | -0.840 | 0.407308 | 0.640055 |
| Nestedness | MAT | -0.7172 | 0.2535 | -2.829 | 0.00719 \*\* | 0.071133 |
| Nestedness | MAP | 0.001299 | 0.002117 | 0.614 | 0.54407 | 0.665789 |
| H2’ | MAT | -0.006608 | 0.002716 | -2.433 | 0.0194 \* | 0.071133 |
| H2’ | MAP | -1.612e-05 | 2.472e-05 | -0.652 | 0.519 | 0.665789 |
| Partner diversity (Plants) | MAT | 0.02569 | 0.01035 | 2.482 | 0.0172 \* | 0.071133 |
| Partner diversity (Plants) | MAP | -7.772e-05 | 1.281e-04 | -0.607 | 0.549 | 0.665789 |
| Partner diversity (DTs) | MAT | 0.05526 | 0.02070 | 2.670 | 0.0108 \* | 0.071133 |
| Partner diversity (DTs) | MAP | 0.0003151 | 0.0002503 | 1.259 | 0.21770 | 0.532156 |
| Vulnerability | MAT | 0.18635 | 0.06977 | 2.671 | 0.010794 \* | 0.071133 |
| Vulnerability | MAP | -0.0005002 | 0.0008834 | -0.566 | 0.575 | 0.665789 |