| disturbance | outcome | model\_type | term | type | estimate | std.error | statistic | p.value | k | qe | qe\_p | I2 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Precipitation reduction | Abundance | Null model | overall | summary | -0.475 | 0.155 | -3.054 | 0.002 | 170 | 1058.576 | 0.000 | 84 |
| Precipitation reduction | Abundance | Failed Geary test | overall | summary | -0.409 | 0.161 | -2.533 | 0.011 | 146 | 1034.196 | 0.000 | 86 |
| Precipitation reduction | Abundance | Low validity removed | overall | summary | -0.621 | 0.203 | -3.052 | 0.002 | 62 | 682.778 | 0.000 | 91 |
| Precipitation increase | Abundance | Null model | overall | summary | 0.305 | 0.146 | 2.090 | 0.037 | 105 | 1542.272 | 0.000 | 82 |
| Precipitation increase | Abundance | Failed Geary test | overall | summary | 0.304 | 0.146 | 2.081 | 0.037 | 95 | 1536.299 | 0.000 | 84 |
| Precipitation increase | Abundance | Low validity removed | overall | summary | 0.258 | 0.201 | 1.285 | 0.199 | 83 | 1402.122 | 0.000 | 85 |
| Precipitation reduction | Taxonomic richness | Null model | overall | summary | -0.033 | 0.035 | -0.931 | 0.352 | 37 | 95.313 | 0.000 | 42 |
| Precipitation reduction | Taxonomic richness | Failed Geary test | overall | summary | -0.033 | 0.035 | -0.931 | 0.352 | 37 | 95.313 | 0.000 | 42 |
| Precipitation reduction | Taxonomic richness | Low validity removed | overall | summary | -0.126 | 0.022 | -5.623 | 0.000 | 24 | 59.170 | 0.000 | 5 |
| Precipitation increase | Taxonomic richness | Null model | overall | summary | 0.048 | 0.110 | 0.434 | 0.664 | 11 | 10.476 | 0.400 | 56 |
| Precipitation increase | Taxonomic richness | Failed Geary test | overall | summary | 0.048 | 0.110 | 0.434 | 0.664 | 11 | 10.476 | 0.400 | 56 |
| Precipitation increase | Taxonomic richness | Low validity removed | overall | summary | -0.043 | 0.030 | -1.407 | 0.159 | 7 | 3.095 | 0.797 | 0 |
| Precipitation reduction | Shannon-Wiener index | Null model | overall | summary | -0.060 | 0.036 | -1.658 | 0.097 | 31 | 91.170 | 0.000 | 42 |
| Precipitation reduction | Shannon-Wiener index | Failed Geary test | overall | summary | -0.060 | 0.036 | -1.658 | 0.097 | 31 | 91.170 | 0.000 | 42 |
| Precipitation reduction | Shannon-Wiener index | Low validity removed | overall | summary | -0.109 | 0.021 | -5.292 | 0.000 | 24 | 62.807 | 0.000 | 0 |
| Precipitation increase | Shannon-Wiener index | Null model | overall | summary | -0.080 | 0.033 | -2.466 | 0.014 | 9 | 3.111 | 0.927 | 0 |
| Precipitation increase | Shannon-Wiener index | Failed Geary test | overall | summary | -0.080 | 0.033 | -2.466 | 0.014 | 9 | 3.111 | 0.927 | 0 |
| Precipitation increase | Shannon-Wiener index | Low validity removed | overall | summary | -0.554 | 0.727 | -0.762 | 0.446 | 8 | 2.619 | 0.918 | 84 |