|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **RmTm** | | | | | |
| *Predictors* | *Estimates* | *std. Error* | *std. Beta* | *standardized std. Error* | *p* | *std. p* |
| (Intercept) | 0.323 | 0.035 | 0.179 | 0.293 | **<0.001** | 0.542 |
| log\_ht | -0.065 | 0.005 | -0.62 | 0.052 | **<0.001** | **<0.001** |
| leaf\_habit [evergreen] | -0.100 | 0.043 | -0.54 | 0.364 | **0.019** | 0.140 |
| myc\_group [ECM] | -0.094 | 0.038 | -0.80 | 0.322 | **0.013** | **0.013** |
| Temp | -0.004 | 0.002 | -0.28 | 0.174 | 0.106 | 0.106 |
| Prec | 0.000 | 0.000 | 0.306 | 0.131 | **0.019** | **0.019** |
| family [Adoxaceae] | 0.003 | 0.077 | 0.026 | 0.651 | 0.968 | 0.968 |
| family [Aquifoliaceae] | 0.031 | 0.078 | 0.264 | 0.658 | 0.689 | 0.689 |
| family [Betulaceae] | 0.083 | 0.053 | 0.702 | 0.453 | 0.121 | 0.121 |
| family [Bignoniaceae] | -0.037 | 0.080 | -0.31 | 0.676 | 0.643 | 0.643 |
| family [Boraginaceae] | 0.004 | 0.078 | 0.035 | 0.660 | 0.957 | 0.957 |
| family [Clethraceae] | -0.085 | 0.096 | -0.72 | 0.811 | 0.377 | 0.377 |
| family [Cunoniaceae] | -0.034 | 0.068 | -0.28 | 0.577 | 0.622 | 0.622 |
| family [Cupressaceae] | -0.014 | 0.060 | -0.12 | 0.510 | 0.815 | 0.815 |
| family [Dipterocarpaceae] | 0.015 | 0.082 | 0.130 | 0.692 | 0.851 | 0.851 |
| family [Elaeocarpaceae] | 0.023 | 0.064 | 0.197 | 0.540 | 0.715 | 0.715 |
| family [Ericaceae] | 0.001 | 0.071 | 0.011 | 0.599 | 0.985 | 0.985 |
| family [Euphorbiaceae] | -0.030 | 0.089 | -0.25 | 0.751 | 0.738 | 0.738 |
| family [Fabaceae] | 0.030 | 0.065 | 0.253 | 0.552 | 0.647 | 0.647 |
| family [Fagaceae] | 0.079 | 0.060 | 0.670 | 0.506 | 0.185 | 0.185 |
| family [Hydrangeaceae] | 0.411 | 0.077 | 3.485 | 0.651 | **<0.001** | **<0.001** |
| family [Lamiaceae] | 0.065 | 0.078 | 0.550 | 0.661 | 0.406 | 0.406 |
| family [Lecythidaceae] | -0.138 | 0.076 | -1.17 | 0.642 | 0.068 | 0.068 |
| family [Magnoliaceae] | -0.019 | 0.071 | -0.16 | 0.604 | 0.792 | 0.792 |
| family [Malvaceae] | -0.068 | 0.078 | -0.57 | 0.661 | 0.386 | 0.386 |
| family [Melastomataceae] | -0.084 | 0.113 | -0.72 | 0.962 | 0.458 | 0.458 |
| family [Meliaceae] | -0.033 | 0.068 | -0.28 | 0.572 | 0.620 | 0.620 |
| family [Myristicaceae] | -0.042 | 0.113 | -0.36 | 0.956 | 0.707 | 0.707 |
| family [Myrtaceae] | 0.164 | 0.074 | 1.388 | 0.630 | **0.028** | **0.028** |
| family [Nothofagaceae] | 0.246 | 0.066 | 2.086 | 0.560 | **<0.001** | **<0.001** |
| family [Oleaceae] | -0.036 | 0.107 | -0.31 | 0.903 | 0.734 | 0.734 |
| family [Pentaphylacaceae] | 0.124 | 0.106 | 1.048 | 0.901 | 0.245 | 0.245 |
| family [Pinaceae] | 0.074 | 0.070 | 0.631 | 0.597 | 0.290 | 0.290 |
| family [Rosaceae] | -0.035 | 0.071 | -0.30 | 0.600 | 0.618 | 0.618 |
| family [Rutaceae] | 0.076 | 0.094 | 0.645 | 0.795 | 0.417 | 0.417 |
| family [Taxodiaceae] | -0.003 | 0.067 | -0.03 | 0.571 | 0.959 | 0.959 |
| family [Ulmaceae] | 0.034 | 0.094 | 0.291 | 0.800 | 0.716 | 0.716 |
| log\_ht \* leaf\_habit [evergreen] | 0.045 | 0.008 | 0.437 | 0.078 | **<0.001** | **<0.001** |
| **Random Effects** | | | | | | |
| σ2 | 0.006 | | | | | |
| τ00 study\_species | 0.002 | | | | | |
| ICC | 0.284 | | | | | |
| N study\_species | 81 | | | | | |
| Observations | 1432 | | | | | |
| Marginal R2 / Conditional R2 | 0.450 / 0.606 | | | | | |

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| --- | --- | --- | --- | --- | --- | --- |
|  | **LmTm** | | | | | |
| *Predictors* | *Estimates* | *std. Error* | *std. Beta* | *standardized std. Error* | *p* | *std. p* |
| (Intercept) | 0.138 | 0.038 | -0.45 | 0.268 | **<0.001** | 0.093 |
| log\_ht | -0.027 | 0.008 | -0.23 | 0.068 | **0.001** | **0.001** |
| leaf\_habit [evergreen] | 0.087 | 0.042 | 0.412 | 0.307 | **0.041** | 0.180 |
| myc\_group [ECM] | 0.090 | 0.041 | 0.489 | 0.301 | **0.028** | 0.104 |
| Temp | 0.007 | 0.003 | 0.419 | 0.152 | **0.006** | **0.006** |
| Prec | -0.000 | 0.000 | -0.22 | 0.106 | **0.043** | **0.043** |
| family [Adoxaceae] | -0.057 | 0.075 | -0.41 | 0.540 | 0.443 | 0.443 |
| family [Aquifoliaceae] | -0.095 | 0.077 | -0.68 | 0.556 | 0.218 | 0.218 |
| family [Betulaceae] | -0.044 | 0.058 | -0.32 | 0.422 | 0.456 | 0.456 |
| family [Bignoniaceae] | -0.094 | 0.083 | -0.68 | 0.597 | 0.256 | 0.256 |
| family [Boraginaceae] | -0.053 | 0.082 | -0.38 | 0.591 | 0.516 | 0.516 |
| family [Clethraceae] | -0.099 | 0.089 | -0.72 | 0.644 | 0.267 | 0.267 |
| family [Cunoniaceae] | 0.077 | 0.071 | 0.552 | 0.509 | 0.278 | 0.278 |
| family [Cupressaceae] | 0.008 | 0.062 | 0.056 | 0.446 | 0.901 | 0.901 |
| family [Dipterocarpaceae] | -0.050 | 0.086 | -0.36 | 0.618 | 0.556 | 0.556 |
| family [Elaeocarpaceae] | -0.051 | 0.066 | -0.37 | 0.475 | 0.440 | 0.440 |
| family [Ericaceae] | -0.106 | 0.068 | -0.77 | 0.494 | 0.120 | 0.120 |
| family [Euphorbiaceae] | -0.033 | 0.093 | -0.24 | 0.673 | 0.725 | 0.725 |
| family [Fabaceae] | 0.001 | 0.068 | 0.008 | 0.488 | 0.987 | 0.987 |
| family [Fagaceae] | -0.076 | 0.064 | -0.55 | 0.463 | 0.237 | 0.237 |
| family [Hydrangeaceae] | -0.081 | 0.075 | -0.59 | 0.541 | 0.277 | 0.277 |
| family [Lamiaceae] | -0.101 | 0.083 | -0.73 | 0.602 | 0.228 | 0.228 |
| family [Lecythidaceae] | 0.219 | 0.081 | 1.579 | 0.587 | **0.007** | **0.007** |
| family [Magnoliaceae] | -0.045 | 0.073 | -0.32 | 0.526 | 0.542 | 0.542 |
| family [Malvaceae] | -0.064 | 0.082 | -0.46 | 0.590 | 0.436 | 0.436 |
| family [Melastomataceae] | -0.058 | 0.109 | -0.42 | 0.785 | 0.594 | 0.594 |
| family [Meliaceae] | -0.001 | 0.071 | -.004 | 0.509 | 0.994 | 0.994 |
| family [Myristicaceae] | 0.175 | 0.108 | 1.266 | 0.780 | 0.105 | 0.105 |
| family [Myrtaceae] | 0.025 | 0.076 | 0.180 | 0.549 | 0.744 | 0.744 |
| family [Nothofagaceae] | -0.165 | 0.071 | -1.19 | 0.513 | **0.020** | **0.020** |
| family [Oleaceae] | -0.088 | 0.100 | -0.64 | 0.722 | 0.379 | 0.379 |
| family [Pentaphylacaceae] | -0.100 | 0.100 | -0.72 | 0.720 | 0.316 | 0.316 |
| family [Pinaceae] | -0.037 | 0.074 | -0.27 | 0.533 | 0.615 | 0.615 |
| family [Rosaceae] | -0.069 | 0.072 | -0.50 | 0.518 | 0.336 | 0.336 |
| family [Rutaceae] | -0.046 | 0.087 | -0.33 | 0.631 | 0.598 | 0.598 |
| family [Taxodiaceae] | 0.095 | 0.070 | 0.688 | 0.507 | 0.175 | 0.175 |
| family [Ulmaceae] | 0.071 | 0.088 | 0.513 | 0.632 | 0.416 | 0.416 |
| log\_ht \* leaf\_habit [evergreen] | -0.037 | 0.007 | -0.30 | 0.056 | **<0.001** | **<0.001** |
| log\_ht \* myc\_group [ECM] | -0.028 | 0.008 | -0.23 | 0.069 | **0.001** | **0.001** |
| **Random Effects** | | | | | | |
| σ2 | 0.003 | | | | | |
| τ00 study\_species | 0.003 | | | | | |
| ICC | 0.446 | | | | | |
| N study\_species | 81 | | | | | |
| Observations | 1432 | | | | | |
| Marginal R2 / Conditional R2 | 0.718 / 0.844 | | | | | |

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| --- | --- | --- | --- | --- | --- | --- |
|  | **SmTm** | | | | | |
| *Predictors* | *Estimates* | *std. Error* | *std. Beta* | *standardized std. Error* | *p* | *std. p* |
| (Intercept) | 0.506 | 0.041 | 0.414 | 0.209 | **<0.001** | **0.047** |
| log\_ht | 0.109 | 0.010 | 0.655 | 0.062 | **<0.001** | **<0.001** |
| leaf\_habit [evergreen] | 0.008 | 0.048 | -0.01 | 0.255 | 0.873 | 0.956 |
| myc\_group [ECM] | 0.003 | 0.043 | 0.076 | 0.234 | 0.940 | 0.745 |
| Temp | -0.000 | 0.003 | -0.01 | 0.123 | 0.911 | 0.911 |
| Prec | 0.000 | 0.000 | 0.022 | 0.091 | 0.807 | 0.807 |
| family [Adoxaceae] | 0.041 | 0.085 | 0.216 | 0.450 | 0.631 | 0.631 |
| family [Aquifoliaceae] | 0.027 | 0.086 | 0.145 | 0.458 | 0.751 | 0.751 |
| family [Betulaceae] | -0.048 | 0.062 | -0.25 | 0.328 | 0.440 | 0.440 |
| family [Bignoniaceae] | 0.055 | 0.090 | 0.291 | 0.477 | 0.542 | 0.542 |
| family [Boraginaceae] | 0.133 | 0.088 | 0.710 | 0.469 | 0.130 | 0.130 |
| family [Clethraceae] | 0.126 | 0.104 | 0.671 | 0.556 | 0.227 | 0.227 |
| family [Cunoniaceae] | -0.049 | 0.077 | -0.26 | 0.411 | 0.528 | 0.528 |
| family [Cupressaceae] | -0.042 | 0.068 | -0.23 | 0.361 | 0.532 | 0.532 |
| family [Dipterocarpaceae] | -0.043 | 0.092 | -0.23 | 0.490 | 0.643 | 0.643 |
| family [Elaeocarpaceae] | 0.022 | 0.072 | 0.119 | 0.384 | 0.758 | 0.758 |
| family [Ericaceae] | 0.063 | 0.078 | 0.333 | 0.414 | 0.421 | 0.421 |
| family [Euphorbiaceae] | -0.028 | 0.100 | -0.15 | 0.533 | 0.779 | 0.779 |
| family [Fabaceae] | -0.090 | 0.073 | -0.48 | 0.390 | 0.219 | 0.219 |
| family [Fagaceae] | -0.010 | 0.068 | -0.05 | 0.364 | 0.882 | 0.882 |
| family [Hydrangeaceae] | -0.346 | 0.085 | -1.84 | 0.450 | **<0.001** | **<0.001** |
| family [Lamiaceae] | -0.046 | 0.089 | -0.25 | 0.475 | 0.604 | 0.604 |
| family [Lecythidaceae] | -0.133 | 0.086 | -0.71 | 0.459 | 0.122 | 0.122 |
| family [Magnoliaceae] | 0.017 | 0.081 | 0.091 | 0.431 | 0.833 | 0.833 |
| family [Malvaceae] | 0.092 | 0.088 | 0.491 | 0.468 | 0.295 | 0.295 |
| family [Melastomataceae] | 0.069 | 0.125 | 0.368 | 0.662 | 0.579 | 0.579 |
| family [Meliaceae] | -0.027 | 0.076 | -0.14 | 0.405 | 0.727 | 0.727 |
| family [Myristicaceae] | -0.198 | 0.124 | -1.05 | 0.659 | 0.111 | 0.111 |
| family [Myrtaceae] | -0.206 | 0.084 | -1.09 | 0.446 | **0.014** | **0.014** |
| family [Nothofagaceae] | -0.073 | 0.076 | -0.39 | 0.403 | 0.338 | 0.338 |
| family [Oleaceae] | 0.079 | 0.116 | 0.42 | 0.618 | 0.495 | 0.495 |
| family [Pentaphylacaceae] | -0.062 | 0.116 | -0.33 | 0.616 | 0.591 | 0.591 |
| family [Pinaceae] | -0.055 | 0.081 | -0.29 | 0.429 | 0.495 | 0.495 |
| family [Rosaceae] | 0.071 | 0.079 | 0.375 | 0.422 | 0.374 | 0.374 |
| family [Rutaceae] | -0.077 | 0.103 | -0.41 | 0.548 | 0.456 | 0.456 |
| family [Taxodiaceae] | -0.136 | 0.076 | -0.73 | 0.404 | 0.073 | 0.073 |
| family [Ulmaceae] | -0.095 | 0.103 | -0.51 | 0.548 | 0.357 | 0.357 |
| log\_ht \* leaf\_habit [evergreen] | -0.013 | 0.009 | -0.08 | 0.052 | 0.140 | 0.140 |
| log\_ht \* myc\_group [ECM] | 0.014 | 0.010 | 0.083 | 0.063 | 0.192 | 0.192 |
| **Random Effects** | | | | | | |
| σ2 | 0.006 | | | | | |
| τ00 study\_species | 0.003 | | | | | |
| ICC | 0.326 | | | | | |
| N study\_species | 81 | | | | | |
| Observations | 1432 | | | | | |
| Marginal R2 / Conditional R2 | 0.737 / 0.823 | | | | | |