| Trait | Intercept | | Order | Feeding guild | Latitude | |
| --- | --- | --- | --- | --- | --- | --- |
| estimate | s.e. | P | P | slope ( | P |
| CTmin | 10.70 | 0.49 | 0.80 | 0.105 | **- 0.078** | **0.048** |
| CTmax | 35.44 | 0.58 | 0.17 | 0.386 | 0.02 | 0.713 |
| Topt | 28.15 | 0.33 | 0.43 | 0.492 | -0.013 | 0.641 |
| rmax | 0.1756 | 0.0116 | **< 0.01** | **< 0.01** | 0.002 | 0.732 |
| Tbreadth | 7.03 | 0.18 | 0.95 | 0.545 | 0.024 | 0.086 |
| Ttolerance | 25.11 | 0.72 | 0.82 | **0.035** | 0.105 | 0.059 |
| Trange | 17.47 | 0.55 | 0.88 | 0.068 | 0.066 | 0.145 |

**Table 1**. Parameters of hierarchical linear models for several thermal traits when including all converged TPC models. All models were fitted using study (“reference”) as grouping variable applied only to the intercept. The first column reflects the across-studies average estimate of each thermal trait with its standard error. The second and third columns show the ANOVA results for comparisons among categories, and the fourth column represents the parameter of the hierarchical model for latitude as covariate. In all cases, represents the residual variance of the hierarchical model. Note that and models are fitted to a subset of the data excluding gaussian TPCs (see Methods).