**Table S17.** Relationship between the median and mean across all localities for each species for each climatic variable (MAT = mean annual temperature, Bio1; TMAX = maximum temperature of the warmest month, Bio5; TMIN = minimum temperature of the coldest month, Bio6; MAP = mean annual precipitation, Bio12). SR = Spearman rank corelation; OLS = ordinary least-squares regression. Shapiro-Wilk test results are for ln-transformed variables, except for the medians and means of MAT, TMAX and TMIN for the two 2014 trees.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tree | Variable |   | Shapiro-Wilk *P*-value | Test | *P*-value | *rho* | *r*2 |
| 2010 | MAT | median | <0.0001 | SR | <0.0001 | 0.937 | -- |
| (*n*=170) | mean | <0.0001 |
|  | TMAX | median | <0.0001 | SR | <0.0001 | 0.947 | -- |
|  | mean | <0.0001 |
|  | TMIN | median | <0.0001 | SR | <0.0001 | 0.933 | -- |
|  | mean | <0.0001 |
|  | MAP | median | 0.0018 | SR | <0.0001 | 0.952 | -- |
|  | mean | 0.0233 |
| 2014-1 | MAT | median | 0.1340 | OLS | <0.0001 | -- | 0.992 |
| (*n*=62) | mean | 0.1183 |
|  | TMAX | median | 0.5714 | OLS | <0.0001 | -- | 0.984 |
|  | mean | 0.8068 |
|  | TMIN | median | 0.0644 | OLS | <0.0001 | -- | 0.987 |
|  | mean | 0.2264 |
|  | MAP | median | 0.3167 | OLS | <0.0001 | -- | 0.983 |
|  | mean | 0.2693 |
| 2014-2 | MAT | median | 0.0597 | OLS | <0.0001 | -- | 0.992 |
| (*n*=60) | mean | 0.0541 |
|  | TMAX | median | 0.7447 | OLS | <0.0001 | -- | 0.982 |
|  | mean | 0.9760 |
|  | TMIN | median | 0.0562 | OLS | <0.0001 | -- | 0.988 |
|  | mean | 0.1553 |
|  | MAP | median | 0.1523 | OLS | <0.0001 | -- | 0.982 |
|   | mean | 0.1316 |