Table S4 The rank of temperature variables based on variable contribution

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| --- | --- | --- | --- |
|  | *Magnolia biondii* | *Magnolia denudata* | *Magnolia sprengeri* |
| Percent contribution | Min temperature of coldest month  Temperature seasonality  Mean temperature of wettest quarter  Mean diurnal range | Min temperature of coldest month  Temperature seasonality  Mean temperature of wettest quarter  Mean diurnal range | Min temperature of coldest month  Temperature seasonality  Mean diurnal range  Mean temperature of wettest quarter |
| Permutation importance | Temperature seasonality  Min temperature of coldest month  Mean temperature of wettest quarter  Mean diurnal range | Min temperature of coldest month  Temperature seasonality  Mean temperature of wettest quarter  Mean diurnal range | Min temperature of coldest month  Temperature seasonality  Mean diurnal range  Mean temperature of wettest quarter |
| Training gain | Min temperature of coldest month  Mean diurnal range  Temperature seasonality  Mean temperature of wettest quarter | Min temperature of coldest month  Mean diurnal range  Temperature seasonality  Mean temperature of wettest quarter | Min temperature of coldest month  Temperature seasonality  Mean diurnal range  Mean temperature of wettest quarter |
| AUC | Min temperature of coldest month  Temperature seasonality  Mean diurnal range  Mean temperature of wettest quarter | Min temperature of coldest month  Mean diurnal range  Temperature seasonality  Mean temperature of wettest quarter | Min temperature of coldest month  Temperature seasonality  Mean diurnal range  Mean temperature of wettest quarter |
| Test gain | Min temperature of coldest month  Mean diurnal range  Temperature seasonality  Mean temperature of wettest quarter | Min temperature of coldest month  Mean diurnal range  Temperature seasonality  Mean temperature of wettest quarter | Min temperature of coldest month  Temperature seasonality  Mean diurnal range  Mean temperature of wettest quarter |