

species **trait** **variance** **environmental** **assemblage** **expected** **conditions** **specific** **wood** **using** **significant** **temperature** **richness** **precipitation** **filtering** **grid** **density** **area** **values**

constrained found within warm local observed drought climatic

calculated interactions shifts used potentially higher divergence Ricklefs number height annual geographic lower geographic

Westoby data analyses seasonal diversity total increasing variables variation harshness environments result increased main

cell cold size sites regression based Swenson scales convergence key niche high America Violette may

functional means strong although seed tested mass dry cells Supplementary axes term thus merged also contrast test biotic

weak forest order trees plant pattern interaction scale Mean effect pool random stress null evidence strongly distribution composition

patterns gradients best correlation often multiple spatial reduction explained variances traits gradient low gradient prediction increase non-standardized SES given standardized across tree North leaf space whereas results stressful

Ackerly decreased decrease