

Traits: Supplementary Material

March 5, 2021

To test for correlations in the data and look for previously observed relationships across traits, we performed a principle component analysis. Despite our intentions to use ecologically significant traits, as supported by the leaf economic spectrum and wood economic spectrum, data limitations meant we only had complete trait data for six traits (height, SLA, LDMC, leaf nitrogen content, and seed mass) for 26 of our 96 candidate species.

The first two components of the PCA explain 32.2% and 23.4% respectively. As expected from previous work and known associations between traits, SLA was inversely related to LDMC and both height and SSD showed similar vector directions. Based on these findings, we further subsetted the traits used in this study to SLA, LNC, height and seed mass. We also feel confident in our decision to model the effects of single traits on species responses to budburst cues.

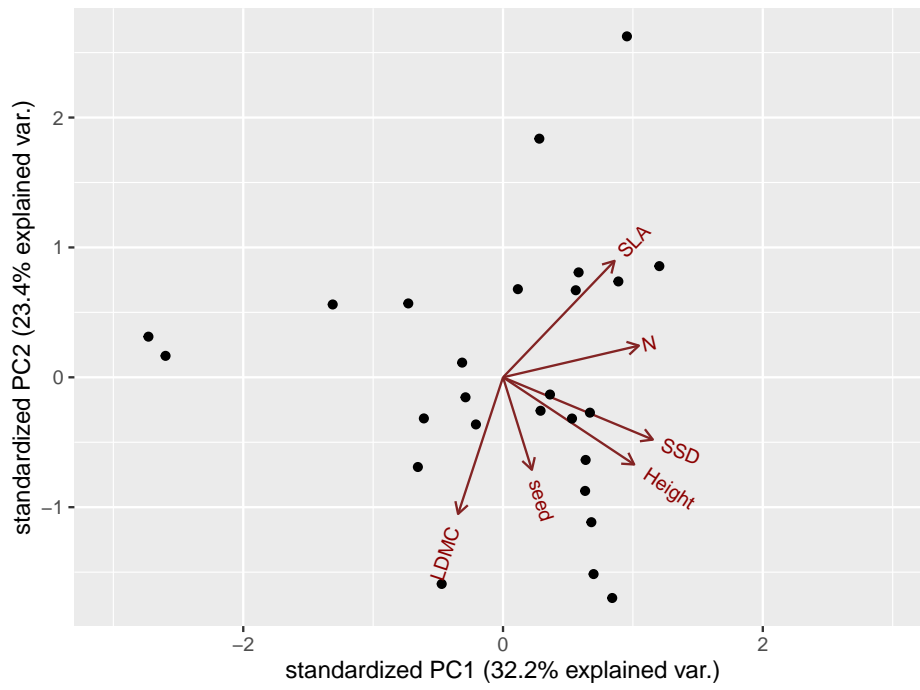


Figure 1: A projection of tree traits across the first and second principle component axis. Arrows represent the direction of vectors for six functional traits. Points represent the 26 speices for which complete trait data was available