

New *Phytologist* Supporting Information

Article title: Phylogenetic and biochemical drivers of plant species variation in organic compound hydrogen stable isotopes: novel mechanistic constraints

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The following Supporting Information is available for this article:

Fig. S1 Leaf water $\delta^2\text{H}$ values collected from plant species in May and July 2020 plotted as a color gradient on the phylogenetic tree.

Fig. S1 Leaf water $\delta^2\text{H}$ values from samples collected in May (a) and July (b) plotted as color gradient along branches of the phylogenetic tree. Pagel's λ , and p value for $\lambda > 0$ are given on the plot. The ancestral state reconstruction indicated by the color gradient on branches was done on the phylogenetic tree transformed with the respective λ value, and subsequently applied to the untransformed tree.

