



Figure S1. (A) Correlations of the raw radial cell-wall thickness (CWTrad) and spline detrended ring width (TRW) chronologies with air temperatures reconstructed with the Imfeld et al. (2023) dataset over time windows ranging from 121-to 273-day windows. (B) Correlations of the raw $\delta^{18}O$, $\delta^{13}C$ and D_{rad} chronologies and Imfeld23 precipitation sums over time windows ranging from 274 (n-1) to 120-day windows.