

Supplementary Materials

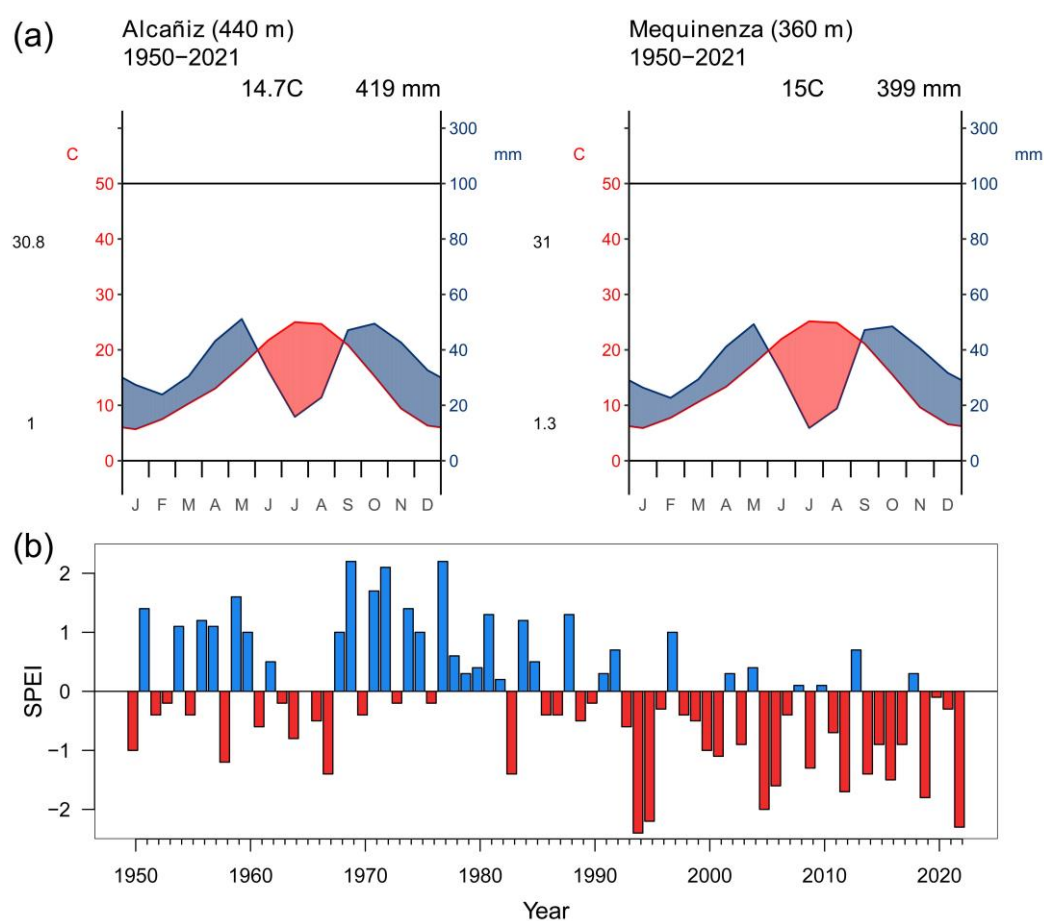


Figure S1. (a) Climate diagrams for the study sites for the 1950–2021 period based on TerraClimate dataset [35]. (b) Standardized Precipitation Evapotranspiration Index (SPEI) of July calculated at 9-month long-scale.

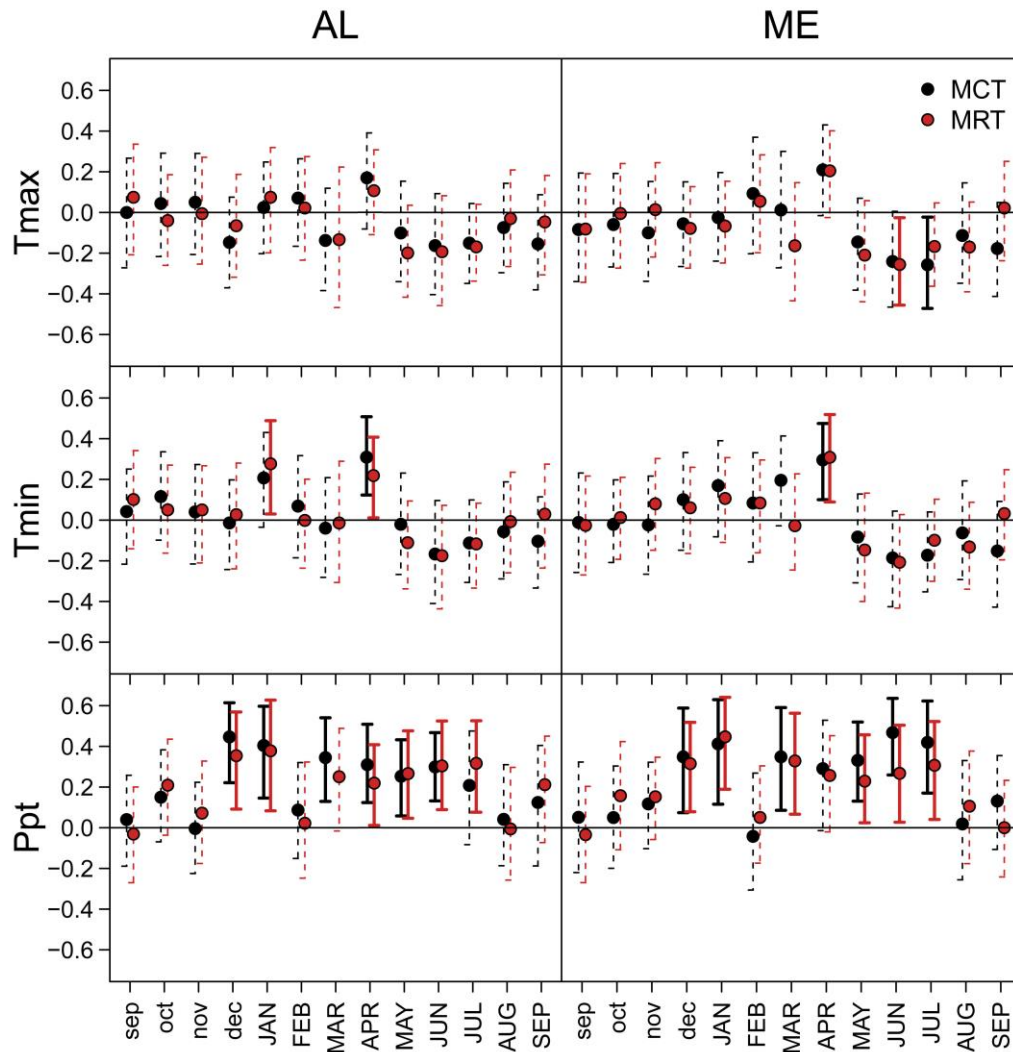


Figure S2. Bootstrapped correlation coefficients between RWI and monthly maximum temperature (Tmax), minimum temperature (Tmin), and total precipitation (Ppt) in Aleppo pine during the period 1950–2021. Error bars are 95% confidence intervals, and significant and non-significant effects are represented by solid and dashed lines, respectively. Months indicated in lowercase and uppercase letters on the x-axis represent the year prior to ring formation to the current year of tree ring formation, respectively.

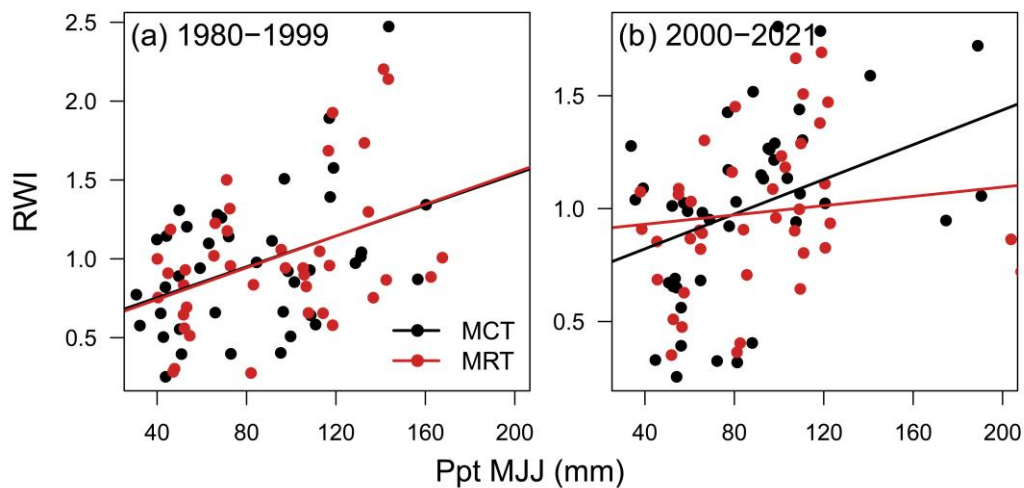


Figure S3. Relationships between RWI and the sum of May, June and July precipitation for **(a)** the period 1980–1999, and **(b)** the period 2000–2021.