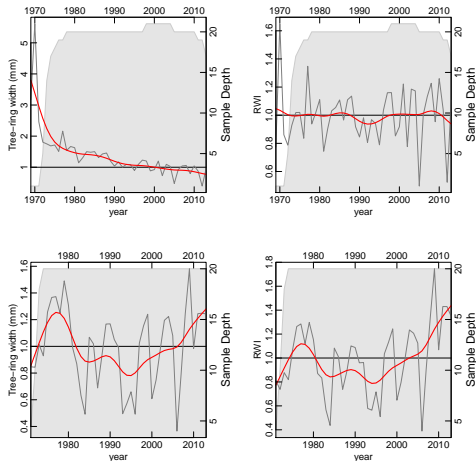
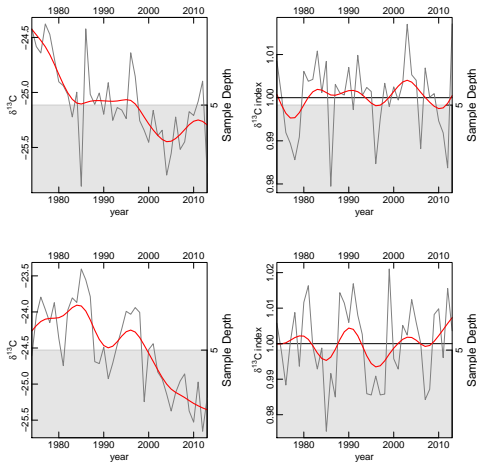


Resilience levels of tree growth

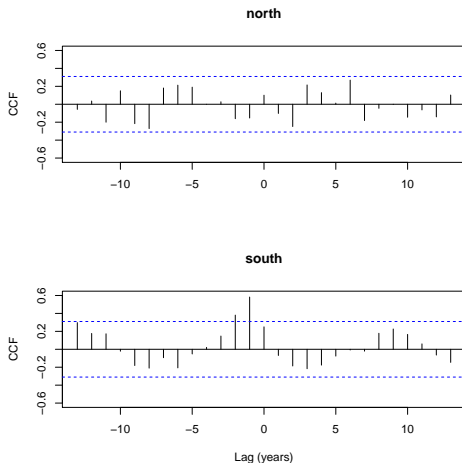


Tree growth in the north has high resistance but slow recovery. Tree growth in the south has slow resistance and slow recovery.

Resilience levels of Isotopic concentrations

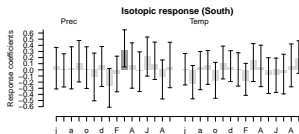
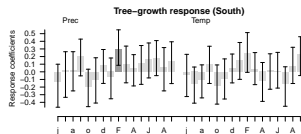
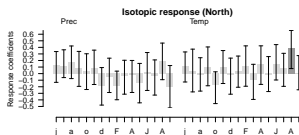
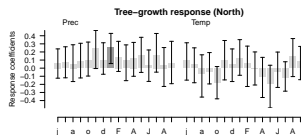


Cross-correlation functions



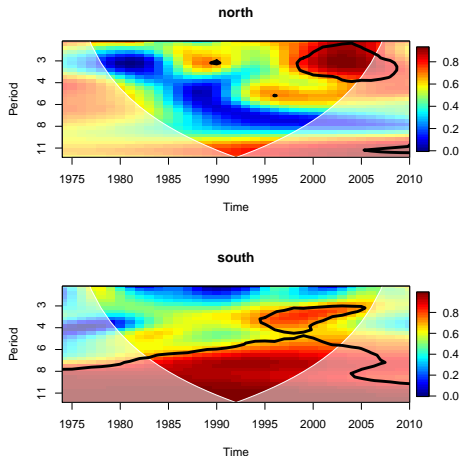
Annual tree growth was correlated with isotopic concentration of the previous year (south).

Seasonal Responses



Spring moisture has a significant controlling influence on tree growth (north and south), and on isotopic concentrations (south). Summer temperature significantly affected isotopic concentrations (north)

Inter-annual coherence (SPEI and tree-ring widths)



Annual tree growth was correlated with isotopic concentration of the previous year (south).