

Figure S1. (a) Correlation between regional chronology and average monthly precipitation from November of the previous year to June of the current growth year; (b) and with average monthly temperature from January to July of the current growth year. The green star on both maps represents the study area.

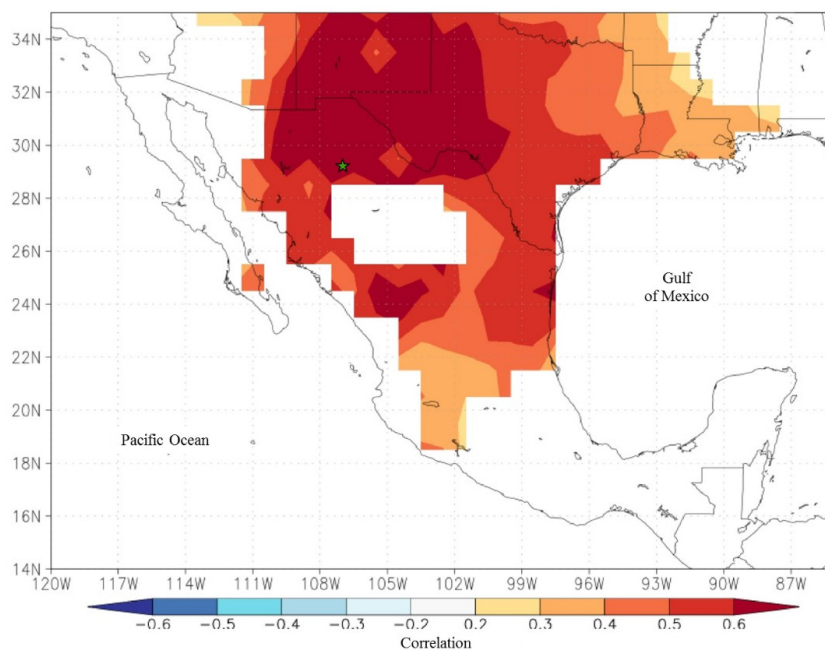


Figure S2. Spatial exploration between the regional chronology and the annual SPEI. The green star on map represents the study area.

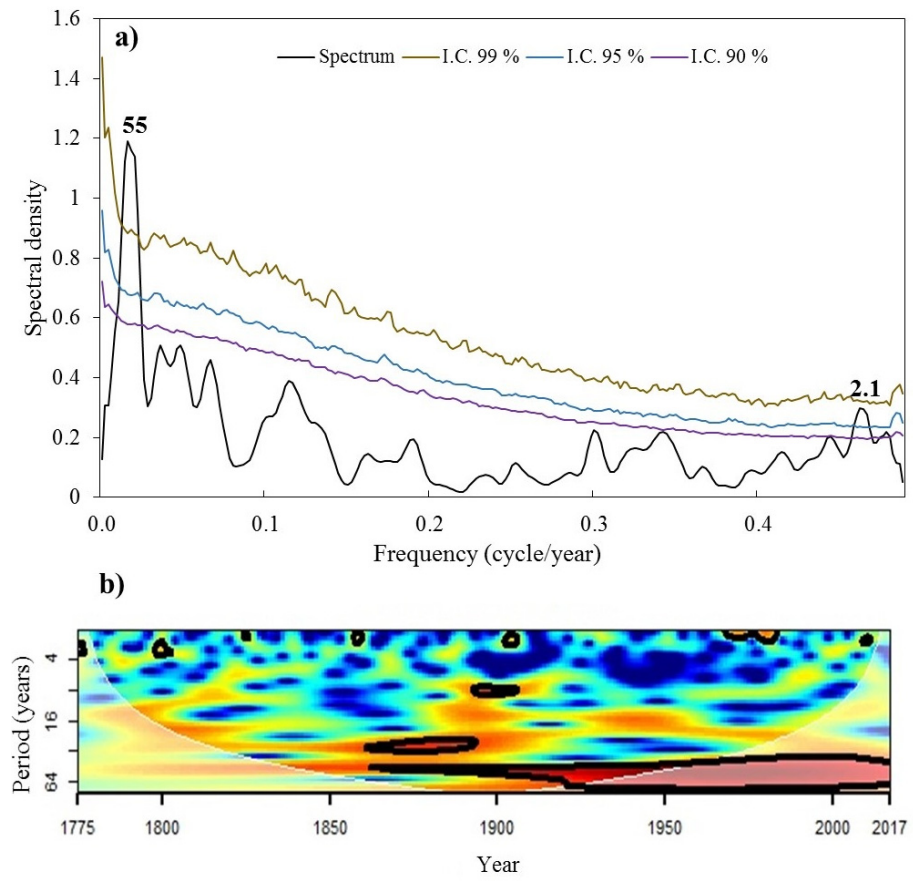


Figure S3. a) Power spectral density analysis of the reconstructed SPEI; and b) wavelet analysis; the black outlines on the cone of influence are significant ($p < 0.05$).