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0.1 Solar and Climate Variation Relationship Searched by Studying Tree Ring Time Series from Chile

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This work presents a study of the relations between solar and climate variations during the three centuries by spectral wavelets analysis for 10 tree ring sample. Trees used for this study were cupressaceous *Austro cedrus* from Rio Cipresse (34^o 27' S, 71^o 52'O), in Chile. The spectral and wavelet analysis of tree ring data shows the main periodicities of the solar cycle were present in your time series, with 0.95 confidence level. This result suggests a solar modulation of climate variations, as recorded by the tree ring growth. Short-term variations, between 2-7 years, are also present in tree ring data. This spectral and wavelet analysis shows that both, solar and climate factors, are recorded in the tree ring data.