



## ***Interactive comment on “A studying of solar-ENSO correlation with southern Brazil tree-ring index (1955-1994)” by N. R. Rigozo et al.***

### **Anonymous Referee #1**

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Review of ‘A studying of solar-ENSO correlation with southern Brazil tree-ring index (1955-1994)’

This paper does not contain any useful information. It starts of with the false statement that long observations of meteorological variables are not available for the region of southern Brazil and neighbouring Argentina and Urarugay, whereas a quick search through the GHCN database finds good coverage over the last 50 years, and some series going back to well within the 19th century.

Next a tree ring series of just 40 years is intruduced, without any research into the sensitivity of the tree growth to temperature, precipitation and in which time of the year.

This tree ring series is then correlated with (presumably) annual mean indices, one of which is quite misleading on this time scale (SOI). The statistical significance of the regression coefficients is overestimated by failing to notice that taking a 10yr running

mean on a 40yr time series only leaves 4 degrees of freedom, so that regressing against 4 variables gives minus one degree of freedom to compute the p-value.

Needless to say, the discussion of the results based on this collection of falsehoods and errors is not very illuminating, and does not give new insights in the climate of southern Brazil.

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Interactive comment on Climate of the Past Discussions, 1, 215, 2005.

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