

## ***Interactive comment on “Mid-Holocene climate reconstruction for eastern South America” by L. F. Prado et al.***

**Anonymous Referee #1**

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The paper by Prado and co-authors aims at producing a picture of hydro climate changes over eastern South America for the Mid-Holocene period. They compiled an impressive amount of proxy records and after applying a simple method (including the sampling resolution and the dating technic employed) to evaluate the relative quality and ensure coherency between each dataset, they were able to deliver a new spatial picture of climate changes that did occur during the Mid-Holocene over a region that experiences, nowadays, recurrent droughts and floods. In that sense the work presented by the authors is very valuable and will contribute significantly to the current efforts to produce coherent spatial reconstruction at a regional scale. This new compilation will fill a significant gap in currently available proxy-based data compilation for the Mid-Holocene and will interest a large community including climate modellers. The on going efforts to develop regional-scale modelling approach to better constrain

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the physics of models used in future climate projections such as CORDEX (COordinated Regional climate Downscaling Experiment) will therefore beneficiate from such “digested” spatial reconstructions to constrain there models results and physics under a past climate change context. I can’t really comment on the quality of the records used or on the inter-calibration method employed by the authors since this is out of my domain of expertise. My main comment concerns the quality of the manuscript writing, which includes many grammatical and spelling errors. The paper can’t therefore be published in its current form and needs significant re-writing before publication.

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