

## ***Interactive comment on “Inferring climate variability from nonlinear proxies: application to paleo-ENSO studies” by J. Emile-Geay and M. P. Tingley***

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*This well written paper explores the problems inherent in ignoring non-linear proxy-climate relationships. I concur with most of reviewer 1's comments and won't repeat them so have only minor suggestions for improvements.*

Thank you for this constructive feedback.

*Some of the text is heavy-going. For example erfc is used in the main text but not*

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*defined until the appendix.*

The entire BPM solution is described in the Appendix A, so when we mention its properties we assume that the reader has looked at the Appendix already.

*Hyphens are sometimes missing -> "anti-correlation", "non-normal"*

There were exactly one instance of each, and both have now been corrected.

*Fig 4 would benefit from tighter y-axis ranges - the detail in this figure is difficult to see.*

We can deal with this at the revision stage, though the details are secondary in the figure; the broad features are the point.

*The difference between figure 3 and 5 was not very obvious.*

Figure 3 and Figure 5 have nothing in common, so perhaps the referee has other figures in mind?

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Interactive comment on Clim. Past Discuss., 11, 2763, 2015.

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