

# ***Interactive comment on “Interannual Variability in the Tropical Atlantic from the Last Glacial Maximum into Future Climate Projections simulated by CMIP5/PMIP3” by Chris Brierley and Ilana Wainer***

**C. Brierley**

c.brierley@ucl.ac.uk

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Dear Reviewer One,

Thank you for undertaking an assessment of our manuscript. We will reply to the points that you raise in detail separately. But I just wanted to clarify the method we have used to create the ensemble average changes.

We did not compute a preindustrial ensemble mean and a LGM ensemble mean and then look at the difference between them. Rather we computed the change in each

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model, interpolated these to a common grid, and then averaged across the changes.

We had felt this approach removed the requirement of having the same constituent models in each experiment's ensemble [after seeing IPCC projections with the number of models written on them, e.g. [http://ar5-syr.ipcc.ch/topic\\_futurechanges.php](http://ar5-syr.ipcc.ch/topic_futurechanges.php)

1. Be much more explicit about the ensemble averaging approach 2. Discuss the impact of just using the 9 common models on the results 3. Include the number of models used to make each figure in its (improved) caption 4. Provide a supplement of alternate figures using the other approach

Yours, Chris

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Interactive comment on Clim. Past Discuss., <https://doi.org/10.5194/cp-2017-145>, 2017.

## CPD

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