

Interactive comment on “Large-scale features of Pliocene climate: results from the Pliocene Model Intercomparison Project” by A. M. Haywood et al.

J. D. Annan

jdannan@jamstec.go.jp

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I don't have anything to say about the simulations themselves, but would like to make some suggestions about the data-model comparison. Firstly, the data do not appear to be presented anywhere in the manuscript. While the residuals shown in Fig 5 are interesting, it would be nice to see the data themselves.

The authors also make the claim in the abstract:

"Models appear able to reproduce many regional changes in temperature reconstructed from geological proxies."

However, the paper doesn't seem to really support this with much quantitative analysis. The comparison in Fig 6 is a bit of a teaser but is not really followed up on. One simple

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quantitative test of regional performance would be to calculate the correlation between modelled versus observed temperatures (perhaps after regional rebinning/averaging).

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