

Interactive comment on “A new global reconstruction of temperature changes at the Last Glacial Maximum” by J. D. Annan and J. C. Hargreaves

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This comment refers to the following statement in the review of Schneider von Deimling: "there are still large and unresolved discrepancies between different proxies – e.g. seen in reconstructed temperatures from microfossils and from geochemical methods (the latter yielding systematically stronger cooling)."

The issue of the reliability of the foram based temperature reconstructions has also come up after the publication of our 2011 Nature paper. As a test of systematic differences between foram assemblage based and Mg/Ca based SST reconstructions I have use all MARGO grid points where both data exist. The result was that while there

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are large differences in individual grid points there is no global bias. In other words, Mg/Ca was colder than foram based SSTs at some grid points but warmer at others. Averaging over all grid points gives no indication of a systematic bias of one method over the other.

I don't know what the basis is for the above statement by Schneider von Deimling (no reference was given), but for the MARGO data set as a whole it does not seem to be true.

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