

Interactive comment on “Identification of climatic state with limited proxy data” by J. D. Annan and J. C. Hargreaves

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Thank you for your helpful suggestions. A detailed point by point response will be provided with the revised manuscript, and some items are mentioned below.

483 It seems that the Smerdon references were switched during typesetting. Thanks also for the other suggestions for additional references throughout the manuscript.

484-10 Yes, this is a good point which we will mention

Section 2 will be extended to discuss model performance more broadly

We focus on the NH due to the substantially greater availability of proxies, and also to ensure relevance to existing studies (eg cited work by Goose et al, Dubinkina et

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al). While we agree that in principle global proxies can provide some information, the cross-hemisphere teleconnections are very small and we don't expect that the small number of data points could materially affect our results.

489 We will extend the loss of variance discussion, though we don't particularly wish to add anything to the debate..

489 Filter collapse will be more clearly discussed - it is a common phenomenon in the NWP literature

We are not convinced about changing the colour scheme, as the main point is that almost all regions show marginal improvement in skill and more colour gradations might highlight noisy variation.

Interactive comment on Clim. Past Discuss., 8, 481, 2012.

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