

Interactive comment on “Application of EnOI Assimilation in BCC_CSM1.1: Twin Experiments for Assimilating Sea Surface Data and T/S Profiles” by Wei Zhou et al.

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Received and published: 7 September 2017

Dear Authors, while documentation of a new reanalysis system is a significant contribution, the referees find the experiments to suffer significant shortcomings in design. Most critically, the twin experiment design does not include surface forcing uncertainty or model error. Additionally, they find it problematic to discuss forecasts outside of a fully coupled framework.

I would like to emphasize that the referees are not objecting to the new reanalysis system and its development, but to the way in which evaluation of that system was performed. Unfortunately, this makes the prospect of acceptance problematic without

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replacement of the experimental design.

If you choose to proceed, responding to the referees' comment, I must advise doing so before undertaking on any of the additional work required to revise the manuscript.

Sincerely Yours, –Matthew Hecht

Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2017-31>, 2017.

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