

# ***Interactive comment on* “BARRA v1.0: The Bureau of Meteorology Atmospheric high-resolution Regional Reanalysis for Australia” by Chun-Hsu Su et al.**

## **Anonymous Referee #3**

Received and published: 9 January 2019

The paper is well written and seems to contain almost no typos or errors in its discussion and references. It describes a new extensive data set which is very valuable for the region in question and is novel in this way. The results are quite well described and documented. The evaluation methodologies are well thought through and made in a careful way.

I have only some comments and questions as below:

Spin-up period of one month seems short comparing other reanalyses and the reference to Renshaw 2013 may not be so valid today? It would be worthwhile to revisit this point if at all possible, by allowing longer spinup or comparing the first year/season with

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a run that has had several years. The question is mainly about soil properties which at least at higher latitudes have a long time constant.

Page 12, line 27: will be erroneous → will be more erroneous

Page 13, line 29: TMPA over land where the rain gauge data . . . : does TMPA use rain gauge data ? Probably but you describe as multi-satellite analysis; please clarify

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Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2018-277>, 2018.

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