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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 #4

Received and published: 14 January 2019

This paper describes the development of the BARRA system for producing atmospheric reanalyses over the Australasian region. The manuscript is well written and the topic is of interest to the atmospheric modelling community. However, I believe the manuscript could be slightly improved with some minor changes.

1) (p 3) The authors refer to a seamless model system in the introduction. Given that there are obvious differences between how the reanalysis, NWP and (presumably) regional climate modelling systems are configured, could the authors explain more clearly the advantages of a seamless modelling system?

2) (section 2) Could the authors provide a short description on the computational re-

quirements of the BARRA system? For example, could the authors comment on how many cores where used and at what rate can reanalysis data be generated?

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