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Interactive comment on "Modelling the Antarctic Ice Sheet across the Mid Pleistocene Transition – Implications for Oldest Ice" *by* Johannes Sutter et al.

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The article by Sutter et al., describes a large ensemble of simulations for the evolution of the Antarctic ice sheet during the past 2 Ma with a continental scale 3D thermomechanical ice-sheet model. The goal of the paper is clearly described in the title and nicely addressed throughout the description of the results, the discussion and the conclusions. I think this is a good paper whose scientific question is clearly suitable for TC.

That being said, I think two main aspects of the paper need to be addressed before publication. They correspond to the two following general comments. Below, you will

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Discussion paper

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also find an extensive list of more specific and technical issues.

Please also note the supplement to this comment:
https://www.the-cryosphere-discuss.net/tc-2019-24/tc-2019-24-RC2-supplement.pdf

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