

## ***Interactive comment on “Four decades of surface elevation change of the Antarctic Ice Sheet from multi-mission satellite altimetry” by Ludwig Schröder et al.***

**E. Berthier (Editor)**

[etienne.berthier@legos.obs-mip.fr](mailto:etienne.berthier@legos.obs-mip.fr)

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Dear authors,

The online discussion of your paper ‘tc-2018-49’ is now closed. Your TCD manuscript has been thoroughly reviewed by two external referees (+ one short comment) and I want first to acknowledge them for the time they spent on evaluating comprehensively your study.

Both referees and A. Shepherd raised some major issues on the methodology and the significance of your results. In particular, they converge on the fact that your study

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lacks a clear description of the methodology, an error estimate and they all regret the unconvincing validation. The general opinion is well summarized by the statement of Anonymous Reviewer #2 “Unfortunately, the manuscript failed to convince me about the successful merging of the different altimetry data sets. Also, beyond presenting the results of the new reconstruction, it did not provide any new insight into the behavior of the Antarctic ice sheets”.

In this context, I ask you to answer first to these major criticisms and explain how you would proceed if you were asked to provide a revised manuscript.

Then, and only then, I will decide whether we can move forward with the review process and if a revised paper and a detailed point by point answer is needed.

Best regards,

Etienne Berthier

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Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2018-49>, 2018.

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