

Dear Editor and Reviewers,

We would like to thank you for your constructive feedback on our manuscript. We appreciate your interest in our work and the time you have put into revising our paper.

We have addressed, explicitly in the text of the manuscript, all reviewer's questions and suggestions regarding expanding data and methods. We have also restructured the entire manuscript to better present: Introduction, Data, Methods, Results, Discussion, and Conclusion. We have added several new subsections, expanded existing ones, and condensed others (as suggested); and have also added additional text to further clarify our findings and justify our experiments.

In addition, we have included a supplementary file (RECIPE.md) with the full recipe (the various processing steps and code) we have used to construct our pan-Antarctic ice shelf thickness changes and basal melt rate estimates, and added additional scripts to the public `captoolkit` repository, which we believe will help the readers who wish to replicate our analysis (<https://github.com/nasa-jpl/captoolkit/blob/master/RECIPE.md>).

We can confidently say that this is the most comprehensive paper to date describing the estimation of ice shelf change/melting from satellite altimetry. We hope that you will find the changes satisfactory and that our work will be of interest and value to *The Cryosphere* readers.

Sincerely,

Fernando Paolo  
and co-authors