

The Cryosphere Discuss., author comment AC2
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Reply on RC2

Yijing Lin et al.

Author comment on "Uncertainties in mass balance estimation of the Antarctic Ice Sheet using the input and output method" by Yijing Lin et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-325-AC2>, 2022

Dear Reviewer,

We sincerely thank the editor and two reviewers for their insightful and constructive comments and suggestions. They were of great assistance in improving the quality of the manuscript. In the attached file, we respond to the general comments and give point-to-point answers to the specific comments.

We have restructured the manuscript and deleted the repeating points and make the discussion more streamlined in the revised version. We also have clarified some omissions of the scaling factor, SMB, and ice thickness, which are raised in the RC.

Again, many thanks for pointing us into directions where our consideration was not sufficiently comprehensive. This helped a lot to improve the manuscript.

Best regards,

Yijing Lin

Please also note the supplement to this comment:
<https://tc.copernicus.org/preprints/tc-2021-325/tc-2021-325-AC2-supplement.pdf>