

The Cryosphere Discuss., author comment AC1
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Reply on RC1

Daniel Clarkson et al.

Author comment on "Melt probabilities and surface temperature trends on the Greenland ice sheet using a Gaussian mixture model" by Daniel Clarkson et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-259-AC1>, 2021

The authors would like to thank the reviewer for their consideration of the paper and for their comments and feedback. We are currently working on a revised version of the paper to address the comments and suggestions made. The comment on the need for a more detailed explanation of the value for the model compared to analysis of only the observations is reasonable and will be focused on in the revised version. We will amend the abstract, introduction, and conclusion to include a clearer explanation of the reasoning behind the modelling approach in addition to the line-specific comments regarding spelling, grammar, and references. The revised version will include a more detailed response to the above recommendation and the recommended corrections. Thank you for all of the comments made and for the time spent reviewing our work.