

The Cryosphere Discuss., author comment AC3  
<https://doi.org/10.5194/tc-2021-95-AC3>, 2021  
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## Reply on EC1

Matt O'Regan et al.

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Author comment on "The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland" by Matt O'Regan et al., The Cryosphere Discuss.,  
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Dear Prof. Stokes,

We have responded to the reviewers comments, and have begun revising the manuscript accordingly.

We have tried to address all of the reviewers comments and incorporate their suggestions for improving the manuscript. The one suggestion that we did not 100% adhere to concerned the development of individual age models for each core. As we outline in our response letter, we prefer to continue identifying a 'maximum' depositional age based on the existing dates we have. In our view, 'age modelling' at this point will not help reduce the uncertainties in the lithologic unit ages. We hope that ongoing work will help constrain the regional dR and provide additional age control to help with age modelling in the near future. We are happy to discuss this more with you and Reviewer 2 if it remains a concern.

Sincerely,

Matt O'Regan and co-authors