

Ocean Sci. Discuss., author comment AC3  
<https://doi.org/10.5194/os-2022-18-AC3>, 2022  
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## **Reply on RC3**

Alan D. Fox et al.

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Author comment on "Exceptional freshening and cooling in the eastern subpolar North Atlantic caused by reduced Labrador Sea surface heat loss" by Alan D. Fox et al., Ocean Sci. Discuss., <https://doi.org/10.5194/os-2022-18-AC3>, 2022

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We would like to thank Referee #3 for their constructive comments. In common with other Referees, Referee #3's main concerns are with the model-observation comparisons at the start – supporting the use of VIKING20X – and at the end – in support of our conclusions about a proposed mechanism. We substantially revise both these sections and provide drafts of revised, more relevant, Figures which better support our conclusions. Please see the attached pdf for our full response to the comments of Anonymous Referee #3

Please also note the supplement to this comment:  
<https://os.copernicus.org/preprints/os-2022-18/os-2022-18-AC3-supplement.pdf>