

# ***Interactive comment on “Influence of initial stratification, wind and sea ice on the modelled oceanic circulation in Nares Strait, northwest Greenland” by Lovisa Waldrop Bergman and Céline Heuzé***

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We thank the reviewer for their valuable suggestions and taking the time to review our manuscript. We here address their main comments only.

The low volume transport in the model is a result of the velocities prescribed at the boundaries, and in the future we will take greater care to see that these velocities correspond better to the observed values.

Also, as explained in the letter that was unfortunately visible only to the editor, we were

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aware that our experiments were far from successful, and initiated this discussion so that we could get helpful advice. We did wonder in particular whether starting the model at the sea ice minimum would have been more realistic, so we are glad to read the reviewer's comments. We will bear it in mind, along with all the others you wrote, when preparing future model runs.

As all three reviewers suggested a rejection, we will not address the other comments from the reviewer, but we thank them kindly for providing them.

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Interactive comment on Ocean Sci. Discuss., <https://doi.org/10.5194/os-2018-122>, 2018.

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