

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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Received and published: 14 January 2019

We thank the reviewer for taking the time to read our manuscript and giving us extremely helpful comments.

Reading these comments we have to agree that the choices for the atmospheric forcing are rather odd, both in the high wind speed and the source of the forcing fields. We will strive to avoid such inconsistencies in the future.

We also agree that the manuscript is still too long, despite having been significantly

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shortened in order to match the requirements of a "technical note". But as the reviewer points out, as a result some important information is now missing from the manuscript, including some information about the initialization. We agree that it makes the experiments hard to evaluate, and we apologize for the lack of clarity.

Finally, the reviewer raised the question of whether the resolution could have an impact on the width of the subsurface jet. This is entirely possible and ideally the simulations would have been run with higher spatial resolution.

We will here not address their other comments, but we thank the reviewer all the same 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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