

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 anonymous reviewer for their brutally honest comments, from which it became obvious that the aim of our study was not at all clearly stated. We shall reply in a similarly honest manner.

The reviewer is entirely right that we here report on a failed experiment. We failed at quickly implementing a model so that we could do some more interesting ocean circulation study. The reason we failed at it was that there was a surprisingly large

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amount of parameters to set for which no suitable observational data was available. We obviously first checked against the literature, but found no ad-hoc solution. Hence, we turned that master's project into a basic sensitivity study.

We eventually obtained results, but we made it clear since the beginning that we did not trust them owing to the sea ice component with which none of us had any experience. So we asked; we asked in our institution; we asked on the MITgcm forum; we asked our network; we asked at Polar2018 where this work was presented. We asked but we never obtained help.

This is why we decided to submit our results to this journal: to initiate a discussion, so that we could eventually get the help we have desperately been needing. This has unfortunately failed as well, as we instead received rather clear suggestions from this reviewer to just give up on this work rather than try and fix it.

Nevertheless, we thank the anonymous reviewer for the time they have spent reading our work and writing their comments. We hope some other student will find either our work or the comments helpful, at least as guidelines as what not to do.

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