

Ocean Sci. Discuss., author comment AC1  
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## Reply on EC1

Øyvind Lundesgaard et al.

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Author comment on "Import of Atlantic Water and sea ice controls the ocean environment in the northern Barents Sea" by Øyvind Lundesgaard et al., Ocean Sci. Discuss., <https://doi.org/10.5194/os-2022-17-AC1>, 2022

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Thank you very much for handling our manuscript.

We agree that the reviewer comments have been constructive, and we believe that we now have a revised manuscript that is a significant improvement from the initially submitted version.

In addition to the changes outlined in the responses to reviewers, and minor typographical changes, we have made the following modifications to the manuscript:

- Replaced the coastlines on the map with updated coastlines from products that more accurately represent the coast of Svalbard (particularly, Kvitøya).
- Included only correlations of amplitude  $>0.1$  in Figures 10 and Fig A2 so as not to focus on very small correlations.
- Added appropriate references for the CARRA product.
- Added DOIs and appropriate references for the CTD and mooring data (the latter have now been made publicly available).