

Clim. Past Discuss., author comment AC3
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Reply on CC1

Julia C. Tindall et al.

Author comment on "The warm winter paradox in the Pliocene northern high latitudes" by Julia C. Tindall et al., Clim. Past Discuss., <https://doi.org/10.5194/cp-2021-186-AC3>, 2022

Thank you for reading our paper and providing comments. We are pleased that you found our study interesting. We address your comments below:

- *L37: the abbreviation SST is not mentioned before, would be good to write out.*

As suggested we will write this out in the revised version

- *L78: Figure 1: is this annual mean data? It is currently not clarified in the text or caption.*

This was an oversight. It is annual mean data and we will clarify this in the revised version.

- *L406-407: 'despite January Arctic SIE being reduced by up to 76%' – where can I find these results? In your manuscript or in a referenced paper? Is this a multi-model mean value?*

Thanks for pointing this out. This result is from figure 5 of deNooijer et al (2020). We had cited this in an earlier version of the manuscript, but it has been mistakenly removed. We will make sure it is added back into the revised version.

- *Table 1: Baatsen et al. is currently out as preprint and can be referred to with doi: <https://doi.org/10.5194/cp-2021-140> (at the time of writing, the revised manuscript has been accepted, so you can hopefully refer to the accepted version and doi in your revised manuscript).*

Thanks for pointing this out. We will add this reference into the revised version of the paper.

Furthermore, I miss two studies in the introduction and/or discussion that I believe are relevant to this study:

- *De Nooijer et al. (2020), that assess Arctic warming in the PlioMIP2 ensemble, <https://doi.org/10.5194/cp-16-2325-2020>*

- *Menemenlis et al. (2021, preprint), investigating data-model comparison discrepancies in southwestern US, using a selection of PlioMIP2 models, <https://doi.org/10.31223/X5P03R>*

We agree that De Nooijer should have been cited and will cite this in the introduction of the revised version. We do not think it is necessary to cite the Menemenlis study, because it looks at precipitation over the southwest US, while our study looks at temperature over the northern high latitudes.