

Dear Prof. Hubertus Fischer

**RE: Authors' point-by-point response to cp-2023-96**

Thank you for the opportunity to revise our paper on the drivers of late Holocene ice core chemistry in Dronning Maud Land in accordance with the referees' comments. The referees provided thoughtful, helpful reviews which strengthened the paper. We believe the revised manuscript addresses the referee concerns and suggestions where possible. We greatly appreciate the feedback.

We outlined our point-by-point response to referee #1 and #2 in our online response posted in the interactive discussion.

Thank you for the additional wording suggestion which we have incorporated into the abstract in the revised manuscript. Below are the updated line numbers (marked up version) to help review the textural changes to referee #2 comments:

- *the issue of the accumulation range in DML to be suitable for the final goal of TCO reconstructions using  $d15NO3$  (discussion L528-538 and L544-548).*
- *an overview of how this paper fits into previous and future work done within ISOL-ICE (introduction L87-99)*
- *an improved analysis of the influence of ENSO on your records (methods L234-236, results L292-300, discussion L447-451)*

Best wishes

Holly Winton, Robert Mulvaney, Joel Savarino, Kyle Clem, and Markus Frey