

## Authors' response

We thank the editor, Dr. Khosrawi, for handling our manuscript and the anonymous referees for their helpful feedback. We further thank them for their time. After the manuscript was accepted for publication, we updated the code and data availability statement (starting in line 388) by including a reference to a data archive containing the model output underlying the results of the study. We further added the corresponding entry to the list of references. The updated code and data availability statement reads as follows:

*The CESM2(CAM6) output underlying the results and figures presented in this paper, along with a Jupyter Notebook containing plotting scripts for the figures, are available at the NIRD Research Data Archive (Zoëga, 2025). The ERA5 reanalysis is available at the Copernicus Climate Change Service (C3S) Climate Data Store (CDS) (Hersbach et al., 2024). Observational timeseries are available at NCCS (2023) for Svalbard lufthavn/airport and Jan Mayen, DMI (2023) for Danmarkshavn and Ittoqqortoormiit, and Icelandic Met Office (2024) for Grímsey.*

Best regards,  
the authors