

The authors have addressed the comments and concerns raised in the previous reviews, including incorporating the additional arguments into the manuscript. The paper is now clearer in outlining the consistency of the methodology applied to both hemispheres, as well as the differences in the validation of the dataset for the Arctic and Antarctic regions. The value of the dataset for both regions is also better highlighted.

Overall, the manuscript has improved in the aspects noted in the previous reviews, and the figures are clearer. Only a few minor typographical issues remain (listed below). Otherwise, I believe the manuscript is suitable for publication.

Typo:

Line 150: “: The filter”. Replace the colon with a full stop.

Line 217: For clarity, consider revising to: “for each cell across all odd values”.

Caption Fig. 4: “Boxplots illustrates” → change to “Boxplots illustrate”.