

Authors response to editor comments (2025-09-26)

Thank you for your comments helping to improve the accessibility of our article to a general audience.

General comments

1. Please consider the Copernicus style.

- Section should be abbreviated as “Sect.” unless it appears at the begin of the sentence
- Northern Hemisphere -> northern hemisphere
- Title should be in small letters (not starting each word with a capital letter)

We adapt the respective parts.

2. Figure labels appear at the bottom, but usually these are put at the left or right side of the figures. Thus my question would be if you could adjust the labels to appear at the left or right side of the panels?

We adapt the subfigure labels as requested.

Specific comments

- Figure 4 caption: Full stop after last sentence missing (or misplaced? There is a small point one line below)

Thanks for pointing this out. The point was misplaced.

- L239: Don't use dots between units and number

We change as suggested.

- Figure 6: Here the figure panes have labels (i), (ii) and (iii) and then additionally (a)-(f). This double labeling is a bit unfortunate and also inconsistent since the left column panels have no additional labels.

We have remove the additional labeling and label each figure separately.

- L249: I would suggest to write “squared Pearson correlation coefficient” instead of “Pearson correlation coefficient squared”.

We adapt as suggested.

- L275: consult -> see

We adapt as suggested.

- L279-280: The brackets [] should be replaces by parenthesis ().

We adapt as suggested.

- L318: Add sentence to previous paragraph (to avoid having a paragraph consisting of one sentence).

We adapt as suggested.

- L327, 324 and 355: ppbV -> ppbv. Note, at some places there is only ppb written.

We adapt as suggested.

- L356: ppm -> ppmv?

We cannot find any ppm in the given line. → “($\chi_{\text{O}_3} \leq 5 \text{ ppb}$)”

- L412: put “e.g.” before the reference.

We adapt as suggested.

- L421: didn't -> did not

We adapt as suggested.

- L426: ppb -> ppbv?

We adapt as suggested.

- Figure B2: There are no differences visible. Adjust color scale to make these visible?

For early Spring (March to April), no differences are expected. The difference between the simulations only affects late Spring (May) IF surface temperatures rise are above -10 °C.

We add this remark to the figure caption.

- Summary and conclusion: It confused me quite a lot that your last sentence of the abstract appeared in the middle of the conclusion. After that the summary and conclusion section read more like a discussion. Thus, I was wondering if it wouldn't be worth to put some part of the summary and conclusion section into a own discussion section?

We revise and separate discussion and summary and conclusions as suggested and add a dedicated section for discussion.