

Response to the Editor:

We thank the editor for the constructive and helpful comments, which helped us to improve the manuscript. We took all comments into account when revising the manuscript. In the text below we describe the modifications and list our responses together with the reviewer's comments that are repeated here in blue color. Our answers are given in black.

Comment from the Editor:

With the next file upload request, please update the "Competing interests" as follows: At least one of the (co-)authors is a member of the editorial board of *Annales Geophysicae*

Thank you for reminding us of this point, here is the updated version on the Competing interests section :

“At least one of the (co-)authors is a member of the editorial board of *Annales Geophysicae*. The peer-review procedure was conducted by an impartial editor, and the authors declare that they have no additional competing interests. The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript, or in the decision to publish the results.”