

Dear Editor and Reviewers,

Please find the tracked changes and new version of the manuscript and supplementary materials.

The major and detailed comments of both reviewers were answered in the previous AC-1 and AC-2 files and corrected during the revision.

- Answer to comments from Referee #1:  
<https://egusphere.copernicus.org/preprints/2024/egusphere-2024-1357/egusphere-2024-1357-AC1-supplement.pdf>
- Answer to comments from Referee #2:  
<https://egusphere.copernicus.org/preprints/2024/egusphere-2024-1357/egusphere-2024-1357-AC2-supplement.pdf>

In the updated version of the manuscript, we have done the following major changes:

- Revised the description and methodology for uncertainties, including all of them into a more robust evaluation
- Reduced the length of the manuscript, moving the tables to the supplementary materials as most of their information were already present in figures or in the text. We have also worked in shortening Section 2 and 5, as proposed by #R2
- Revised Fig. 1, 3, 4, 5, 6 following #R1 and #R2 comments and feedback
- Assessed all minor comments and corrections throughout the manuscript, see AC-1 and AC-2 above
- Implemented the description of the methodology and added a scheme in the supplementary material (Fig. S1)

Best Regards,