

Please find below a point-to-point reply to the comments.

The manuscript can be accepted for publication once the following reviewers' comments have been addressed:

- **Referee #2:** *"The authors should insert discussions to the main text where appropriate and necessary, instead of adding a specific section at the end of the paper. The ending section should be Conclusions". I fully agree.*

We followed the recommendation of the reviewer and merged the text from the chapter Discussion in the manuscript.

- **Referee #3:** *"I still think some minor revisions could improve the manuscript, in terms of suppressing the self-citation bias. For example, in the Discussion section, some assertions could be supported by more bibliography :*

*« meteorology (De Meij et al., 2009 and references therein) » : I think the bibliography could be broadened by citing : <https://www.sciencedirect.com/science/article/pii/S1352231008009072>
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2015JD023674>"*

As suggested by the reviewer we included more references with respect to the uncertainties in calculating air pollutant concentrations.

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