

The authors thank the editor for the comments. We have modified the manuscript based on these comments to improve and clarify the text. Please find below our detailed responses in bold blue text (with direct quotes from the revised manuscript shown in “bold, quoted and italic” text). The editor’s comments are shown in black unformatted text. All line numbers in our responses correspond to the “clean” version of the revised manuscript.

## RESPONSE TO THE COMMENTS FROM THE REVIEWER

In the data availability statement, please provide the access URLs to all data used in the manuscript (i.e., PurpleAir, AQS, NOAA ISD, etc.).

Will the model output data (i.e., predicted PA concentration data in figures 4, 6, and 7) be made publicly available anywhere? Please see the AMT data policy here: [https://www.atmospheric-measurement-techniques.net/policies/data\\_policy.html](https://www.atmospheric-measurement-techniques.net/policies/data_policy.html).

**Response:** Thank you for the comments. We updated the “Data availability statement” to provide the link to the data used in our study. The model output data (Model 4, Model B<sub>j</sub> and SSC model) are also available via the same link (lines 444- 453).

### *“Data availability*

*The processed datasets and programming codes written to perform statistical analyses and visualizations can be found on the first author’s Github repository dedicated to the study : <https://github.com/MartineMathieu/PurpleAir-calibration> . The hourly and daily predicted concentrations are also accessible on the same repository.*

*All raw data can be provided by the corresponding authors upon request. PurpleAir, AQS and NOAA ISD data can be found in the following repositories:*

*PurpleAir data can be found using the PurpleAir API accessible on <https://api.purpleair.com> and <https://develop.purpleair.com>*

*U.S. EPA AQS can be found via the AirNow API accessible on <https://www.airnow.gov>*

*NOAA ISD data can be downloaded using the R package worldmet or directly on <https://www.ncei.noaa.gov> “*