

Earth Syst. Sci. Data Discuss., author comment AC1
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Comment on essd-2021-426

Xiangyue Chen et al.

Author comment on "Full-coverage 250□m monthly aerosol optical depth dataset (2000–2019) amended with environmental covariates by an ensemble machine learning model over arid and semi-arid areas, NW China" by Xiangyue Chen et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-426-AC1>, 2022

Dear Editor and anonymous reviewer

On behalf of my co-authors, we thank you very much for giving us the opportunity to revise the manuscript. Also, many thanks for reviewing our manuscript and providing us with your recognition and valuable advice and feedback on our manuscript.

Based on the reviewers for their attentive and insightful reviews of the manuscript, we have made the appropriate corrections and clarifications to the manuscript, especially with regard to FEC AOD generation and validation. We have performed a more rigorous and methodological analysis and repeated the experiments with comprehensive validation. The responses to each of the points raised by the reviewers are in red after each of their comments. For the response, please check the enclosure.

Sincerely,

Xiangyue Chen

Lanzhou University

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2021-426/essd-2021-426-AC1-supplement.pdf>