

Thank you for revising the manuscript. The reviewers have the following suggestions before acceptance of the manuscript:

Response: We have responded to the remaining issues raised by the reviewers below. All line numbers refer to the clean revised manuscript without tracked changes.

-The uncertainties could be handled more comprehensive. The reviewer recommend the authors to add a paragraph to the conclusion section summarizing "study limitations and remaining uncertainties".

Response: We thank the reviewer for this suggestion. We have added a paragraph summarizing limitations and remining uncertainties to the conclusion in lines 453-461.

-Chen et al. (2025) and references therein show a reduction in OH in 2020 due to COVID-19. Please discuss further how this influence your results.

Reference:

Chen, W., Zhang, Y., & Liang, R. (2025). Converging evidence for reduced global atmospheric oxidation in 2020. National Science Review, nwaf232.

Response: We thank the reviewer for calling attention to this important factor and for introducing us to this recent paper, which we have cited. We have added a discussion on how a reduction of OH in 2020 would impact our results both in the body of the article (lines 298-300) and in the conclusion (lines 453-461).