

I appreciate the authors' effort in revising the manuscript, particularly in response to the reviewers' comments, which necessitated a significant restructuring and reorganization of the paper. Most of my remaining comments have been satisfactorily addressed. However, the paper could benefit from a thorough grammar review. Nonetheless, I still have some minor comments below, and once these are addressed, I find the paper may be suitable for publication.

1. Abstract: Consider using relative percentage values instead of concentration values for improved clarity.
2. Introduction: L110, I don't think it is necessary to mention other species of biomass burning tracers and sea salt here.
3. Introduction, L135: please add the descriptions about the contents in each section.
4. L157: Delete the word "and" to enhance sentence flow.
5. Section 4.2, L428: It is advisable to emphasize that these values are GEOS-Chem model-based and subject to model dependency.