

We are thankful to the reviewers for their insightful comments and help improving the manuscript. Our responses are below, comments by reviewers are italicized.

The authors addressed the comments of the reviewers sufficiently, there are a few edits I would suggest, after this it is suitable for publication:

Line 309: replace out with our

*Corrected. Thank you for pointing this out.*

Line 36: shows appears twice in the sentence, in the end shows is used instead of show; maybe change to: ... the profiles in Figs XX show ...

*Corrected.*

Line 374: has used instead of "has attempted to use"

*Corrected*

I would suggest to remove line 590 as it is not specific and the concrete findings are listed later anyway: "To our knowledge, this study significantly advances the understanding of global aerosol transport events"

*Deleted.*