

Interactive comment on “The AFWA Dust Emissions Scheme for the GOCART Aerosol Model in WRF-Chem” by Sandra L. LeGrand et al.

Anonymous Referee #1

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This manuscript provides a full documentation of the AFWA dust emission scheme in WRF-Chem, and the differences between dust emission produced by the three available dust emission schemes are also discussed. The manuscript is well-written and clearly presented.

Suggestion on the manuscript.

The authors should apply more observational data to show the difference between the results produced by the three dust emission schemes? Such as the daily AOD map from MODIS, or the surface AOD observations from AERONET program? It is hard to conclude with only the transects of CALIPSO extinction coefficient.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2018-169>,
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2018.