

Interactive comment on “Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment” by C. A. Randles et al.

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Received and published: 7 February 2013

This comment is in regards to J. Wang's point #1 (i.e. variation of RF with SZA and choice of SZA for this paper) on behalf of author D. Neubauer:

We have made simulations with UNIVIE-Streamer (Model #5) where we've varied the solar zenith angle between 30 and 75 degrees, and the radiative forcing varies monotonically for the two cases and the two atmospheres in these simulations. The only non-monotonic variation is for case 2a (scattering aerosol), tropical atmosphere at

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large zenith angles. However, the difference in radiative forcing is negligible. So the considered cases in the paper (30 and 75 degrees) seem to be very reasonable choices (at least UNIVIE-Streamer).

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 32631, 2012.