

Interactive comment on "Evaluation of five dry particle deposition parameterizations for incorporation into atmospheric transport models" by Tanvir R. Khan and Judith A. Perlinger

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The work presented here has special significance for researchers in terms of narrowing down their options based on parametrization made in this work. The authors have extensively discussed various variables involved in dry deposition process that looked like a textbook format. The authors should make every effort to shorten the text and eliminate some of the fundamental discussions as related to dry deposition along with the equations. There are some grammatical issues that needs to be addressed; however, it is minimal. The authors should avoid referencing to dry particle deposition, instead they should just mention, dry deposition'. Ambient particle density due to heterogene-

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ity of particulate matter can not be determined and used in these equations properly, so the authors should indicate such uncertainties. The authors should reference to Noll and Oskouie's pioneering work in the field of dry deposition to enrich their work with significant studies made in this field. The uncertainties for ambient particulate density is addressed in Oskouie's work with unique calibration curves developed for determination of density of the ambient particles using supersonic TOF device which is used as the only calibration curves available for such characterization.

Overall this work should be considered for publication with minor revisions.

Interactive comment on Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2017-93, 2017.