

Interactive comment on “Development of a parameterization scheme for calculating dry deposition velocity of fine, coarse and giant particles” by L. Zhang and Z. He

Anonymous Referee #2

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Leiming Zhang has made major contributions to model development for particle deposition previously and this is also a contribution (all be it of a technical nature). Nevertheless, some aspects could be improved: The lack of validation except to his original model might be seen as a weakness (i.e. the approximations are able to reproduce the results from a more detailed model, but do they reproduce the REAL world?) What do these approx. mean in terms of applications in a model (regional/global) - i.e. show results from an application of the approximations. Also maybe there could be some physical discussions of the functional forms (e.g. Eq. 5 - are these models physically based and parsimonious?) The figures are rather poor in terms of quality and actually

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presenting results (lots of scatterplots, but maybe they could be synthesized into one or two or difference figures - as it is the scatterplots don't add much in terms of insights!). The tables are hard to follow and maybe not consistent; rice is LUC 4 in Table 1 but is in category 2 in Table 2b.

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