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www.atmos-chem-phys-discuss.net/15/C1311/2015/

Atmospheric Chemistry and Physics Discussions

Interactive comment on "The anthropogenic contribution to atmospheric black carbon concentrations in southern Africa: a WRF-Chem modeling study" *by* F. Kuik et al.

Anonymous Referee #1

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The paper with the title "The anthropogenic contribution to black carbon concentrations in southern Africa: a WRF-Chem modeling study" describes a timely and interesting topic, is well written, the overall content is fairly understandable and the structuring is easy to follow. The idea behind the study is relevant for current research on air chemistry, climate interaction in this region and contributes to global WRF-Chem model applications. The author gives a clear structuring, chronologically defining the steps which have been performed to reach the study's target. Although the overall impression is of positive nature, a number of smaller changes have to be undertaken in order to follow the overall goal of the study. The methodolgy has to be exlained

more detailed at some points and more effort should be put on highlighting the core outcomes of the study. The points which deserve further attention are mentioned within the supplementary material with regard to line by line comments. Further general comments about figures, references, single paragraphs, abstracts and conclusion are added to the supplements-section as well.

Please also note the supplement to this comment:
http://www.atmos-chem-phys-discuss.net/15/C1311/2015/acpd-15-C1311-2015-supplement.pdf

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 7309, 2015.