

Interactive comment on “Lidar signal simulation for the evaluation of aerosols in chemistry-transport models” by S. Stromatas et al.

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Received and published: 24 July 2012

The lidar signal simulator can be used for not only model evaluation but also data assimilation. Advanced data assimilation schemes, such as ensemble Kalman filter, necessarily need an observation operator. If your lidar simulator is coupled with a cloud signal/noise simulator, they will work as a high-performance observation operator when we assimilate lidar observations. This can be emphasized in the paper.

Interactive comment on Geosci. Model Dev. Discuss., 5, 1691, 2012.

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Interactive Discussion

Discussion Paper