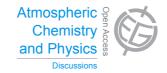
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ACPD 14, C13022–C13023,

2015

Interactive Comment

Interactive comment on "Evaluation of a regional chemistry transport model using a newly developed regional OMI NO₂ retrieval" by G. Kuhlmann et al.

G. Kuhlmann et al.

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Received and published: 19 April 2015

Response to Reviewer 3

We like to thank reviewer 3 for his or her feedback. The manuscript has undergone a major revision based your and reviewer 1's comments. The updated manuscript is attached as supplement to this reply.



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Interactive Discussion

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1 Reply to minor points:

To 1) We agree that improved CTM performance, mainly by updating our emission inventory, should greatly improve the HKOMI retrieval. This has been included in the updated manuscript (Section 5.3 and 5.4).

To 2) We did not test different CRFs filter thresholds. Since CRFs in the PRD region are frequently high, a larger threshold is required to obtain a sufficient number of data (see also Chan et al., AMT, 2012). The CRF filter threshold can influence mean NO2 VCDs, because NO2 concentrations can differ between clear and overcast conditions. However, the CRF filter does not change the major findings of our study, because ground measurements and CMAQ fields were temporally collocated with the OMI datasets.

To 3) The introduction has been rewritten and the sentence was removed.

Please also note the supplement to this comment: http://www.atmos-chem-phys-discuss.net/14/C13022/2015/acpd-14-C13022-2015supplement.pdf

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 31039, 2014.

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