

Interactive comment on “An operational system for the assimilation of satellite information on wild-land fires for the needs of air quality modelling and forecasting” by M. Sofiev et al.

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Let me first of all express, on behalf of all co-authors, our deep gratitude to both referees for their constructive comments, which helped us to improve the paper. The responses to specific comments are below.

Main modification of the paper:

The paper has undergone several revisions, which regarded both style and content:

M1. The introduction has been substantially extended to include better representation of the state of the art, available satellite information and other data sources.

M2. The structure of the paper has been somewhat rearranged to make it easier to

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follow

M3. In particular, an additional section describing the test cases used for the development has been added to the background section

M4. The issue of the total PM vs PM_{2.5} vs other species has been brought up and explained in the FAS description, operational setup and in the application parts

Ref2 (ref_rep_2_acpd-9-S2381.pdf)

General part: figures have been reviewed and partly redrawn

Specific comments: FAS-noFAS comparison. Under the influence of fire plume the no-FAS calculations fail entirely as the fire contribution is dominant there. The corresponding part is added in the updated comparison (see also the response to ref.1)

Section 2.5. The statement of the TA-FRP scatter plots has been removed. Regarding the peculiarities of the specific scatter plots, (un)fortunately, they do not persist in other days, so it would be premature to build on them.

The figure 9 has been removed and replaced with the comparison with in-situ data. Admittedly, it is not only FAS but rather FAS + SILAM, so we did not run into lengthy discussions of the peculiarities.

Small comments to specific pages and technical corrections: all corrected

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 6483, 2009.

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