Geoscientific

Model Development

Discussions

Interactive comment on "Construction of an Eulerian atmospheric dispersion model based on the advection algorithm of M. Galperin: dynamic cores v.4 and 5 of SILAM v.5.5" *by* M. Sofiev et al.

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Received and published: 11 May 2015

With this short response, we would like to thank the Reviewer for the very thorough analysis of the paper and the recommendations. These will be carefully followed in the preparation of the revised version of the paper.

In particular, we shall focus the presentation and pay more attention to the 3D scheme implementation and performance.

The connections with Egan & Mahoney approach will also be explored in greater detail: the schemes indeed have common features, as mentioned in the paper, but also fundamental differences, which, in particular, made it possible to avoid the very heavy con-

siderations of the second-order moments. These and other modifications suggested by the reviewer will be pursued in the revised paper version.

Interactive comment on Geosci. Model Dev. Discuss., 8, 2905, 2015.