

## ***Interactive comment on “Integrated systems for forecasting urban meteorology, air pollution and population exposure” by A. Baklanov et al.***

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The differences in the plume sizes and concentration distributions at the Fig. 7 are very convincing to show that the urban-effect corrections in HIRLAM have major impact on the atmospheric dispersion in the vicinity of city.

However, probably more speculation on that fact can be given in paper, because: a) color scales at the Figures 7-8 are not visible and it is difficult to estimate the effect quantitatively;

b) it is not only the ABL height that influences concentration distributions at Fig. 7, but also stability/Monin-Obukhov length, and this is probably even more important, because lower ABL height around Copenhagen city without corrections due to urban

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heat island (in the Fig. 8-b)) makes cloud in Fig. 7-b) confined in more shallow layer, and if stabilities were not different the width of the cloud in Fig. 7-b) should be larger than in Fig. 7-a) and the opposite is observed.

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