Interactive comment on “A novel model evaluation approach focussing on local and advected contributions to urban PM$_{2.5}$ levels – application to Paris, France” by H. Petetin et al.

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Authors presented some encouraging results from Paris area showing aerosol simulations in chemistry transport models.

In section 5.1: I just noted a discussion about the uncertainties in the BLH estimates with lidar technique (Page 6409) "On a yearly average over............. not work in case of rain". This is indeed an important discussion. Recently, using lidar data sets obtained at SIRTA near Paris, Pal et al. (2013) and Cimini et al. (2013) discussed in detail the issues related to the aerosol stratification during morning transition period, effect of rainfall etc. It is important to cite the above articles so that the interpretations of the
lidar-derived results become clear and concise to the community.

Additionally, for the same experimental area, Lac et al. (2013) also discussed the impact of UHI on observed and modelled near-surface temperature field. So, a short comparison to their findings is relevant here.


Interactive comment on Geosci. Model Dev. Discuss., 6, 6391, 2013.