

Interactive comment on “Characteristics and formation mechanism of continuous extreme hazes in China: a case study in autumn of 2014 in the North China Plain” by Y. Yang et al.

Y. Yang et al.

lxgstar@126.com

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I just saw that two important recent references on the boundary layer dilution on tracer concentrations are missing; Yang et al. discussed partly the role of near-surface wind speed and relatively stagnant weather condition as well as the impact of boundary layer dynamics on aerosol characteristics. I suggest citing the following representative papers on the subject and discussing: 1. Wind speed and wind reversal: Pal et al., 2014. Impact of atmospheric boundary layer depth variability and wind reversal on the diurnal variability of aerosol concentration at a valley site. *Science of the Total Environment*, 496, 424–434, doi: 10.1016/j.scitotenv.2014.07.067 2. Boundary layer

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dynamics: Pal et al., 2015. Investigation of the atmospheric boundary layer height variability and its impact on the 222Rn concentration over a rural background site in France, *Journal of Geophysical Research-Atmospheres*. doi: 10.1002/2014JD022322

Response:

We thank Dr. Pal's recommendation of these two references. We read two articles carefully and believed it necessary to cite these two references as following in the revised manuscript. We add the corresponding sentences in the revised manuscript, please see the supplement pdf file.

References:

Pal, S., Lee, T.R., Phelps, S., De Wekker, S.F.J., 2014. Impact of atmospheric boundary layer depth variability and wind reversal on the diurnal variability of aerosol concentration at a valley site. *Sci. Total. Environ.*, 496, 424-434.

Pal, S., Lopez, M., Schmidt, M., Ramonet, M., Gibert, F., Xueref-Remy, I., Ciais, P. 2015. Investigation of the atmospheric boundary layer depth variability and its impact on the 222Rn concentration at a rural site in France. *J. Geophys. Res.: Atmos.*, 120, 623-643.

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/15/C3306/2015/acpd-15-C3306-2015-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 10987, 2015.