

Interactive
Comment

Interactive comment on “Vertical variations of aerosols and the effects responded to the emission control: application of lidar ceilometer in Beijing during APEC, 2014” by G. Tang et al.

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General Comments: this is an interesting submission on a topic of wide interest (Air Quality in Beijing). The paper describes what amounts to a "natural experiment" and as such is very interesting. The use of ceilometer for examining vertical variations in aerosol concentrations is well established and appropriate in this case. Main comments: I have attached a marked up PDF where I have detailed issues in the text. Most of these are related to the terminology used. Specific Comments:

1. the title should be modified - I suggest something like: Impact of emission controls

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on air quality in Beijing during APEC 2014: lidar ceilometer observations

2. The manuscript badly needs a map in which the regions in which emission controls were implemented are shown. Some discussion of the types of emission controls (where and what?)

3. There is a terminology problem where "process" is used to describe "degraded air quality episodes". The various places where this occurs is highlighted in the marked up PDF

4. Similarly, the term "High Layer atmosphere" I think refers to upper boundary layer?

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/15/C2982/2015/acpd-15-C2982-2015-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 13173, 2015.

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