

## ***Interactive comment on “Impacts of aerosols on weather and regional climate over the Pearl River Delta megacity area in China” by Y. Wang et al.***

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(1) We have now stated that “The number concentration and mass mixing ratio of ammonium sulfate aerosol over the surface in the polluted case are constrained by field measurements from Liu (2008) and Liu (2007), respectively, in the field campaign PRIDE-PRD 2004. The exponential decreasing profile of aerosol vertical distribution is supported by aircraft measurement during PRIDE-PRD 2004 (Wang et al., 2008). The most recent analysis from high-resolution AMS measurement (He et al., 2011) provides a similar mass concentration of ammonium sulfate to the value employed in this study.”

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(2) We have added the alphabetic label in each panel of figure 7.

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