

Interactive
Comment

Interactive comment on “Characterization and source apportionment of submicron aerosol with aerosol mass spectrometer during the PRIDE-PRD 2006 campaign” by R. Xiao et al.

Anonymous Referee #2

Received and published: 28 March 2011

1. Overall, the measurement results indicated that the total concentrations of submicron aerosol increased with decreasing relative humidity (RH) during different air mass categories. For the north and southwest categories, the size distributions for organics and sulfate generally showed unimodal characteristics and the mean peak diameter moved to larger size range. Please comment on this different trend.

2. The measurement results indicated that the maximum concentration of organics as high as $20 \mu\text{g m}^{-3}$ between 17:00–20:00. The authors considered that the variations of organics might be attributed to the enhanced vehicular emissions during traffic hours. However, the variations of organics observed during other traffic hours (7:00~9:00)

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were not significant. Could authors provide more interpretation and information to address this issue?

3. In this study, a new particle formation and growth event was observed at the BG site on July 21, during which OOA accounted for as high as 93% of OA mass. For clarity, authors should provide better interpretation to address this issue.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 1891, 2011.

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