

***Interactive comment on “Atmospheric hydrogen peroxide and organic hydroperoxides during PRIDE-PRD’06, China: their concentration, formation mechanism and contribution to secondary aerosols” by W. Hua et al.***

**W. Hua et al.**

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Thanks for your constructive comments. Here are our responses to your comments:

(Q1): The in depth discussion of the SO<sub>2</sub> interference on the measurements, as explained to referee#2, needs to make its way into the manuscript (Methods + section 3.5.1), since this issue is crucial to the interpretation of the observations.

(A1): We highly appreciate your suggestions and have done this in the revised manuscript.

(Q2): Please add more details on the isoprene measurements; analytical methods,

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calibration, references.

(A2): We have added these in the revised version.

(Q3): Discussion on H<sub>2</sub>O<sub>2</sub> and WSOC and Figure 8. The argument that the negative correlation observed between these two species is due to WSOC formation is very weak. The decrease in H<sub>2</sub>O<sub>2</sub> in the evening is expected from a lack of photochemical formation, plus its deposition (and reaction with SO<sub>2</sub>). This section needs to be substantially modified and the claims regarding the links between H<sub>2</sub>O<sub>2</sub> and WSOC should be played down.

(A3): We agree your suggestion, so this section has been modified and the claims regarding the links between H<sub>2</sub>O<sub>2</sub> and WSOC have been played down in this section and in conclusion and abstract.

(Q4): Finally, the grammar of some of the additions/changes to the manuscript needs attention.

(A4): We have corrected the grammar of the additions/changes in the revised version.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 10481, 2008.

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