

***Interactive comment on* “The characterisation of pollution aerosol in a changing photochemical environment” by M. J. Cubison et al.**

M. J. Cubison et al.

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One of the hypotheses put forward by the authors is that the larger particles have been subject to a longer processing time since emission. Therefore, the larger organic influence at the smaller diameters observed in Figure 7 indicates that the younger particles may be more greatly influenced by SOA than the larger, older, aerosol. If sulphate production is slower than SOA, then one would expect these larger aerosols to have a larger inorganic fraction. However, if particles of different sizes have had different residence times in the atmosphere then it is possible they will have had different histories and been subject to different sources. The authors accept that the argument needs clarification and will re-word the text appropriately.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 10055, 2005.
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