

Interactive comment on “New particle growth and shrinkage observed in subtropical environments” by L.-H. Young et al.

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We deeply appreciate the two reviewers' comments on the manuscript. In response, we have revised the manuscript substantially with respect to the following issues:

1. Event type classification: The classification of a small number of NPF events into subsets (Types A and B) has been removed. In effect, we have changed our focus to the differences between non-event and event days, as well as the particle shrinkage.
2. Particle formation rate: We have changed our focus of discussion to the particle formation rate of 10 nm particles (J10), whereas the nucleation rate of 1 nm particles (J1) is retained as supplementary information.
3. Condensable vapor concentration and sulfuric acid proxy: We have added the calculation of the condensable vapor concentration and sulfuric acid proxy in the revised manuscript.
4. Shortening the manuscript:

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In the revised manuscript, long paragraphs have been broken up in shorter ones to be more concise and readable. In addition, the number of diurnal figures has been reduced to only four representative ones.

For our point-to-point responses to Anonymous Referee #1's comments, please refer to the attached supplement pdf document.

Please also note the supplement to this comment:

<http://www.atmos-chem-phys-discuss.net/12/C8443/2012/acpd-12-C8443-2012-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 18605, 2012.