

Interactive comment on "Aerosol optical properties in the southeastern United States in summer – Part 1: Hygroscopic growth" by C. A. Brock et al.

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The power law gamma approximation of the extinction hygroscopic growth assumes a metastable aerosol in an RH regime of continuous growth. The fit falls apart at low RH values where fRH values are essentially 1.0 over an extended RH range, i.e. the curve flattens out. For aerosol with a high inorganic composition you run the risk of the aerosol efflourescing below 30% RH. Try anchoring the fit at the lower RH value around 30-40% and the gamma fit will work much better. Assume that extinction growth is negligible from the low RH value of 11% to \sim 40% RH. Adjust the lower RH value in your fit to 30-40%. The fit will work much better. In future measurements set the RH in

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the low RH extinction cell to \sim 30-40%.

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