

Interactive comment on “Classifying previously undefined days from eleven years of aerosol-particle-size distribution data from the SMEAR II station, Hyytiälä, Finland” by S. Buenrostro Mazon et al.

S. Buenrostro Mazon et al.

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We thank the referee for his/her encouraging comments. Below are our point-by-point answers to them:

"In the discussion section, the authors make reference to the work of Hyvonen et al. (2005) in describing parameters that predict new particle formation such as relative humidity and the condensation sink. In this light, reference should also be made to the work of McMurry et al. (2005, A criterion for new particle formation in the sulfur-rich Atlanta atmosphere, JGR), which provides a simple dimensionless parameter L that accounts for the probability that nucleated particles will coagulate with pre existing

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particles before they grow to a detectable size."

As suggested by the referee, we will add a reference to the work of McMurry et al. (2005). We will also add references to Birmili et al. (Atmos. Chem. Phys. 3:361-376, 2003) and Heintzenberg et al. (Tellus 59B:273-282, 2007), which also describe new ways of classifying size distribution data with respect to particle formation.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 12665, 2008.

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