

Interactive comment on “Measurements of optical properties of atmospheric aerosols in Northern Finland” by V. Aaltonen et al.

Anonymous Referee #1

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The manuscript is well written and worthy of publication. I only have some minor comments.

Concerning the average scattering coefficients, the Pallas site is cleaner than Barrow, Alaska and more polluted than Ny-Ålesund during an arctic haze period. It is expectable? What is the reason for this order?

I think figure 5b and c are similar: high values of κ_{sp} is associated with low particle number concentration and vice versa.

Page 11713-11714: “When clouds are present, the relative amount of large sea-salt and dust particles is likely to be reduced...” Since you measured the number concen-

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tration of the bigger particles too, it could be confirmed with measured data as well.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 11703, 2005.

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5, S4905–S4906, 2005

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