Interactive comment on “The scale problem in quantifying aerosol indirect effects” by A. McComiskey and G. Feingold

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Dear Authors,

I find your manuscript very interesting and thought-provoking, but I have still a small technical question:

You mention on page 26753, line 24, that you use for Na PDF a normal distribution with similar mean as the modelled Na. Is there a specific reason for using a normal distribution?

The aerosol number concentrations are typically log-normally distributed in the concentration space, or in other words the histograms are log-normal in relation to aerosol concentration. This can be seen in histograms on e.g. Asmi et al, 2011.
This will probably have very minor effect on your results, but I would like to know if there is some actual reason to assume normality?

Refs:


Interactive comment on Atmos. Chem. Phys. Discuss., 11, 26741, 2011.