

Interactive comment on “New particle formation in the Svalbard region 2006–2015” by Jost Heintzenberg et al.

Anonymous Referee #2

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The paper is well written. It includes long time series on arctic aerosol dynamics and NPF. However, before final publication authors need to consider following things. 1) The particle formation rates are totally missing. Although authors could easily calculate those using the e.g. the procedure given by Kulmala et al. (2012, Nature Protocols). In that way it is easy to see, and how long time formation rates are over some threshold. 2) After that it would be crucial to show scatter plot with CS/GR as x-axis and formation rate at 10 nm (J10). 3) Their type one PCT event have been observed all around the world. Typically they are not called NPF events due to lack of growth. Anyhow, it would be good to compare with existing literature. 4) Also their MEV type is seen elsewhere, at least in Australian eucalyptus forest. See several Suni et al. papers.

Minor issue: The address for P Tunved is not the correct one.

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