Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-1073-RC2, 2017 © Author(s) 2017. CC-BY 3.0 License.



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 seen, and how long time formation rates are over some threshold. 2) After that it would be crucial to show scatter polot with CS/GR as x-axis and formation rate at 10 nm (J10). 3) Their type one PCT event shave been observed all around the world. Typically they are not called NPF events due to lack of growth. Anyhow, V type is een al. papers.

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it would be g	good to	compare	with existing	litterature.	4) Also	their	ME'
elsewhere, a	te least	in Austral	ian eucalypty	s forest. Se	e severa	l Sun	i et a
Minor issue:	The add	dress for F	Tunved is no	ot the correc	ct one.		

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-1073, 2016.