

Interactive comment on “The origins of ice crystals measured in mixed phase clouds at High-Alpine site Jungfraujoch” by G. Lloyd et al.

P. Vochezer

paul.vochezer@kit.edu

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I think the presented manuscript is a valuable documentation of cloud measurements on a mountain top station. I found the discussion of the different mechanisms that could lead to the high observed numbers of ice particles very elucidating. However the authors argue only in the case of blowing snow that this mechanism depends on wind velocity. I would expect each of the proposed processes to depend on the wind velocity. Which are: The number of a lofted pre activated aerosol particles should increase with the wind velocity. Rimming by super cooled droplets should increase with wind velocity. Furthermore the detachment of hoar frost should increase with wind velocity. How do the authors interpret their results with regards to this argumentation?

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