

Interactive comment on “Cloud and precipitation properties from ground-based remote sensing instruments in East Antarctica” by I. V. Gorodetskaya et al.

Anonymous Referee #2

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Review of the paper “Cloud and precipitation properties from ground-based remote sensing instruments in East Antarctica” by I. V. Gorodetskaya, S. Kneifel, M. Maahn, K. Van Tricht, J. H. Schween, S. Crewell, and N. P. M. Van Lipzig

This paper describes a new observatory of clouds, precipitation and blowing snow in Antarctica. The instruments which are used will allow the scientific community to study in more details polar clouds and more specifically mixed phase clouds. The experimental set-up is well illustrated by the analysis of case studies. In this sense the paper is very original. It is also very clear and well written. I have only a few minor comments that have to be addressed before the paper is published.

C1834

p. 4213, 2nd para. The 2nd sentence should be clarified: what do you mean by most frequent (which frequency/ies)? p. 4214, 2nd full para. The criteria used to exclude snowfall should be recalled. p. 4216. have you installed an acoustic snow height ranger at Princess Elizabeth? p. 4217, 3rd line. The reference Gallée et al. (2005, Ann. Glac.) should be also appropriate. Characters size of figures 1 and 6 should be increased

Please also note the supplement to this comment:

<http://www.the-cryosphere-discuss.net/8/C1834/2014/tcd-8-C1834-2014-supplement.pdf>

Interactive comment on The Cryosphere Discuss., 8, 4195, 2014.

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