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Interactive comment on “Schneefernerhaus as a mountain research station for clouds and turbulence – Part 2: Cloud microphysics and fine-scale turbulence” by H. Siebert et al.

Anonymous Referee #3

Received and published: 29 April 2015

Publication is recommended but the authors may want to consider the points made below.

Same general point as for part 1: The authors argue that the the large scales are similar to laboratory flows. This is apparently to justify using the site as a high Reynolds number laboratory for cloud studies. Possibly they are trying too hard to make the laboratory connection and it and it would be of interest to the readers to find out what they see as significant differences to the laboratory, rather than only pointing out only the similarities.

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In particular the cloud is always intermittent at the large scale. Some statistics on the intermittency would be of interest since it undoubtedly affects mixing, drop size etc.

Some specific points:

P578: Para1, third last line: Provide a reference after “or thin stratocumulus clouds”.

P579: Para 2, second line. Provide a reference after “measured in free clouds”.

Fig 5. Explain what the solid straight lines are in the caption.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 569, 2015.

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