

***Interactive comment on* “The influence of cloud top variability from radar measurements on 3-D radiative transfer” by F. Richter et al.**

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1) Is there any kind of insolation other than solar? (p.8088,line 23) 2) Re: p.8089, line24,25 Do you account for smaller scale variability or how do you know it doesn't affect radiative transfer? 3) In table 7, the sopes should be negative ... 4) Hard to understand exactly how you carry out all of this ... 5) You have compared a MC scheme with realistic cloud structure to homogeneous cloud top and shown, not surprisingly, significant differences. But suppose, instead of a homogeneous cloud top, the cloud top structure were represented by a combination of 'homogeneous' facets at various viewing angles (ie. neglecting the fact that photons leave the cloud top at one angle and may re-enter a different part of the cloud) - how well cloud this represent the MC results?

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