

Interactive comment on “First Odin sub-mm retrievals in the tropical upper troposphere: humidity and cloud ice signals” by M. Ekström et al.

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This is a very useful, and well written paper. One useful and innovative aspect is the method for determining the cloud induced radiance ΔT_B . However, I am slightly disappointed in the description of the cloud affected RH_i retrievals, which is probably the most difficult and important aspect of the work. In particular ...

p 8657:

The second paragraph describing the cloud affect RH_i retrievals is extremely confusing. Perhaps the chief source of confusion is this sentence:

"The weights are based on statistics from a large number of retrieved RHi and B ".

But how can the weights be based on retrieved RHi, when the retrieved RHi in cloudy cases is determined by by the weights? i.e. there is a strange circular logic. Did you mean to say:

"The weights are based on statistics from a large number of *simulated* RHi and ΔT_B ".

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 8649, 2006.

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