

## ***Interactive comment on “Sky cover from MFRSR observations: cumulus clouds” by E. Kassianov et al.***

### **Anonymous Referee #2**

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The paper introduces a new approximation of hemispherical cloud amount using the MFRSR instrument. It makes use of the diffuse flux difference of two channels in the visible spectrum. The method is well explained. The topic meets the scope of the journal. It is well structured and could be published as it is.

Only a few comments:

p.717 l.10 : Revision of the sentence beginning with "The estimation of N.." is needed.

It would be interesting to see comparisons to the transmittance ratio method by Min et al. (2008). Are there situations where you prefer one method over the other?

I wouldn't consider the comparison to  $N_{sw}$  as validation with totally independent data, since it is based on a similar observation principle.

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Interactive comment on Atmos. Meas. Tech. Discuss., 4, 715, 2011.