

## ***Interactive comment on “A new method for the simulation of the Ring effect in observations of scattered sun light” by T. Wagner et al.***

### **Anonymous Referee #2**

Received and published: 26 February 2009

The paper is fully appropriate for AMT, interesting and of good quality. No doubt that it deserves publication. However I share the reaction of referee #1 that most useful for the UV-Vis community and newest outcome, is the simulation of the 3D cloud effect and particularly the effect of shadowing. The description of the method applied for the calculation of the Ring effect is certainly required, the discussion of errors and the comparison with other estimates are particularly appreciated and convincing. But the centre part of the paper seems to me the effect of 3 D clouds since it is the most original piece of information relevant to the impact of Ring correction on atmospheric species retrievals. I fully support the suggestion made by ref#1 of giving more weight to the cloud impact on the Ring effect in the title and reorganising a little the paper in this direction.

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