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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Estimating cloud optical thickness and associated surface UV irradiance from SEVIRI by implementing a semi-analytical cloud retrieval algorithm" *by* P. Pandey et al.

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This scientific communication is of interest due to the fact that the link between clouds and irradiance is a growing topic under broken clouds conditions. The choice of UV wavelengths could be understood as the safety of humans against skin injuries is important, but I think that an extension to visible and near infrared could be also of interest. After domestic deployments of solar cells for domestic purposes, we observe a growth of photovoltaic industrial facilities and the cloud optical thickness is for them of great interest as it will have a strong impact of the incoming radiation at the PV cell level.

As mentioned in my first comments, authors show with a lot of details their method but does not show obtained improvement compared to other studies like Ph Peeters one.

In the comparison between ground base measurements and satellite data, I suggest to authors to provide information concerning the spatial resolution of each method. This element can provide interesting considerations for results comment.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 691, 2012.