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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Use of satellite erythemal UV products in analysing the global UV changes" *by* I. Ialongo et al.

Anonymous Referee #2

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Use of satellite erythemal UV products in analyzing the global UV changes by I. Ialongo et al.

This paper should be published with only a few changes. The authors mention the use of AVHRR (page 3) to estimate cloud changes. If this is used in the paper, the implementation should be discussed in more detail. If it is not used in the trend estimates, the authors should state this explicitly.

The authors are using the Earth-Probe TOMS data. While the EP ozone data are useful, the cloud LER data are not correct. The authors should state whether they are just using the O3 data.

The use of Erythemal Dose Rate seems indistinguishable from erythemal irradiance.

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Interactive Discussion
Discussion Paper

Is there a difference?

A reference should be added (Herman, J.R., Use of an improved radiation amplification factor to estimate the effect of total ozone changes on action spectrum weighted irradiances and an instrument response function, J, Geophys. Res., D23119, doi:10.1029/2010JD014317, 2010).

The paper is well written, the figures are clear and informative, and there is sufficient new work described here to warrant publication.

There is a spelling error on page 2: percents –> percent

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 16439, 2011.