

Interactive comment on “Evidence of a possible turning point of UVB increase over Canada, Europe and Japan” by C. S. Zerefos et al.

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The manuscript presents results of an important topic for the atmospheric community and should be published in acp. It analysis irradiances in the UVB and UVA at Canada, Europe and Japan for the period 1990-2010 and relates the trends with total ozone column, AOD and cloudiness.

In general, the methodology is appropriate, but I have a couple of comments about it. In the study, the average for all stations is analyzed. I think that analysis showing the results for individual stations should be included in order to evaluate if the observed trend is representative of all stations, or a region, etc. Another topic is the use of AOD at 550nm and extrapolate to the AOD, or the effect of aerosols, at 305 and 325nm. The authors should add a paragraph justifying this.

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On other topics: The abstract should be improved. Some points are not clear, particularly when it says "...excess volcanic aerosol might have enhanced by an additional 6%...." Here it should be said that it would be because of the increase in scattering, as explained in pag 9, line 15, otherwise it is confusing. Also, in the abstract it should be pointed out the period considered in the analysis.

The text needs to be revised. For example, first sentence page 4, repeats part of last sentence page 3.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 28545, 2011.

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