

Interactive comment on “Utilising shade to optimize UV exposure for vitamin D” by D. J. Turnbull and A. V. Parisi

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Response to comments from RC S653

The following statement has been added to page 3, line 34 of the Introduction: Shade as a protective device has been discussed numerous times before (e.g. Turnbull and Parisi, 2006) and it is not the aim of this paper. This current paper is about the exposures that humans may receive when utilising solar UV for vitamin D3 synthesis and the possible methods to optimise this radiation. The authors are unaware of any similar research or attempts to show how solar UV exposures can be optimised so humans can receive adequate vitamin D3 levels as well as reducing their total UV exposure.

The following has been added to page 6, line 7 of the Discussion: However, in the shade there is the potential danger due to the filtering of the infrared waveband, which

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may cause prolonged exposures.

The legend for Figure 4 has been changed to the following: The percentage of instances when the time required for an exposure of 1/3 MED due to diffuse (grey bar) and global (black bar) U_{Very} falls within a certain time range (provided in units of minutes).

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 781, 2008.

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