Atmos. Chem. Phys. Discuss., 8, S1832–S1833, 2008
www.atmos-chem-phys-discuss.net/8/S1832/2008/

Atmospheric Chemistry and Physics Discussions

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

D. J. Turnbull and A. V. Parisi

Received and published: 22 April 2008

A table with the average times for an exposure equivalent to 1/3 MED for vitamin D and erythemal effective UV radiation from diffuse and global UV has been added to the manuscript.

The following has been added to page 5, line 10: The average times for an exposure equivalent to 1/3 MED for vitamin D3 and erythema are shown in Table 1 for diffuse and global UV. For a SZA of 5o, the average time needed to receive an exposure of 1/3 MED due to erythemal UV was 4.4 and 6.8 minutes for global and diffuse respectively. Whereas, the average time needed to receive an equivalent exposure of 1/3 MED for vitamin D3 production was 2.2 and 3.2 minutes for global and diffuse respectively. These times are based on exposing 15% of the human body to UV radiation. Increasing the exposed body surface will subsequently decrease the time needed for vitamin D3

Full Screen / Esc
Printer-friendly Version
Interactive Discussion
Discussion Paper

production (e.g. exposing three times more body surface will reduce the exposure times presented in this research by a factor of three). However, the time for 1/3 MED of erythemal effective UV will remain the same.

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

ACPD

8, S1832–S1833, 2008

Interactive Comment