**Atmospheric
Chemistry
and Physics
Discussions**

Interactive comment on "On the variability of the Ring effect in the near ultraviolet: understanding the role of aerosols and multiple scattering" *by* A. O. Langford et al.

C. Sioris (Referee)

csioris@cfa.harvard.edu

Received and published: 17 November 2006

It is my understanding that equation 3 assumes that the second order Raman scattering is occurring at the same altitude as the first order scattering. This is an approximation. Ideally, the FI2 calculation at layer z should consider the FI1 integrated over all scattering angles AND LAYERS and should consider the transmission between the multitude of scattered light source locations and the second scattering locations.

"The resultant FI is integrated over all scattering angles for the first event, with the second scattering angle constrained by the first scattering angle and the SZA."

This approximation could be noted in the paper.

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

EGU

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 10153, 2006.

Interactive
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

EGU