

## ***Interactive comment on “Deriving polarization properties of desert-reflected solar spectra with PARASOL data” by W. Sun et al.***

**Anonymous Referee #2**

Received and published: 5 June 2015

This paper develops an algorithm for obtaining the spectral polarization state of solar light from desert with the PARASOL data. Through numerical experiments, concise but meaningful results are summarized. The reviewer recommends the publication to ACP, but the minor points below should be addressed before the publication.

- 1) In Introduction, the importance of polarization correction should be emphasized quantitatively to let readers know the importance of this subject. How about adding some sentences around L15-17 in P8527.
- 2) In Method of L17 in P8530, how is the sensitivity of the assumption for 0.02 of the refractive index?

For typographical point, L11 in P8535, ‘Figures 20 to 15’, 15 should be 25.

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Interactive comment on Atmos. Chem. Phys. Discuss., 15, 8525, 2015.