

Interactive comment on “Stratospheric aerosol measurements by dual polarisation lidar” by G. Vaughan and D. P. Wareing

Anonymous Referee #2

Received and published: 19 November 2004

The paper addresses an important for atmospheric physics and chemistry subject, remote measurement of the background stratospheric aerosol. The authors propose a new lidar method for performing such measurements. The current methods suffer from a number of limitations and need auxiliary information, drawbacks which have been overcome to a great extent by the new technique. A novel idea for solving the typical for depolarization lidar measurements problem related to instrumental depolarization is also proposed. The applicability of the method as well as its limitations are clearly defined and illustrated with data from measurements. The theoretical development is supported by a number of atmospheric observations. The idea of the method is clearly presented and well explained in the text. The mathematical equations are well defined

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with the minor exception in eq.1 and eq 2 where the use of capital K and small k can be confusing. In summary this manuscript addresses important for the atmospheric science and remote sensing aspects and will be of interest for the communities involved in these fields, it is well written and suitable for publishing in the Atmospheric Chemistry and Physics journal.

Interactive comment on Atmos. Chem. Phys. Discuss., 4, 6107, 2004.

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