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Atmos. Chem. Phys., 9, 7963-7972, 2009

www.atmos-chem-phys.net/9/7963/2009/

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Technical Note: A SAGE-corrected SBUV zonal-mean ozone data set

C. A. McLinden, S. Tegtmeier, and V. Fioletov

Environment Canada, Toronto, Canada

Abstract. A stratospheric vertically resolved, monthly, zonal-mean ozone data set based on Satellite Aerosol and Gas Experiment (SAGE) and Solar Backscatter UltraViolet (SBUV) data spanning 1979–2005 is presented. Drifts in individual SBUV instruments and inter-SBUV biases are corrected using SAGE I and II by calculating differences between coincident SAGE-SBUV measurements. In this way the daily, near-global coverage of SBUV (/2) is combined with the stability and precision of SAGE to provide a homogeneous ozone record suitable for trend analysis. The resultant SAGE-corrected SBUV data set, shows, for example, a more realistic Quasi-Biennial Oscillation signal compared to the one derived from SBUV data alone. Furthermore, this methodology can be used to extend the present data set beyond the lifetime of SAGE II.

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Citation: McLinden, C. A., Tegtmeier, S., and Fioletov, V.: Technical Note: A SAGE-corrected SBUV zonal-mean ozone data set, Atmos. Chem. Phys., 9, 7963-7972, 2009. [Bibtex](#) [EndNote](#) [Reference Manager](#)



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