Atmos. Chem. Phys. Discuss., 5, S4632–S4633, 2005 www.atmos-chem-phys.org/acpd/5/S4632/ European Geosciences Union © 2005 Author(s). This work is licensed under a Creative Commons License.



ACPD

5, S4632–S4633, 2005

Interactive Comment

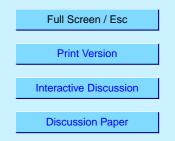
Interactive comment on "Aerosol light absorption in the North Atlantic: trends and seasonal characteristics during the period 1989 to 2003" by C. Junker et al.

A. Stohl

ast@nilu.no

Received and published: 21 December 2005

This paper presents a thorough statistical analysis of a long time series of light absorption in the North Atlantic. Regarding the comparison with the trends at an Arctic site reported by Sharma et al. (2004), it is worthwhile to note that the North Atlantic Oscillation has opposite effects on the pollution transport to the Canadian Arctic and to Mace Head, as shown by Eckhardt et al. (2004) using model calculations and station data (including BC data from Mace Head). Thus, I think the fact that opposite trends have been reported for the two stations can partly be explained by the tendency (I am



EGU

avoiding the word "trend" here, as the time period is perhaps too short to speak of a true trend) of the North Atlantic Oscillation during this period.

Reference: Eckhardt, S., A. Stohl, S. Beirle, N. Spichtinger, P. James, C. Forster, C. Junker, T. Wagner, U. Platt, and S. G. Jennings (2003): The North Atlantic Oscillation controls air pollution transport to the Arctic. Atmos. Chem. Phys. 3, 1769-1778.

ACPD

5, S4632–S4633, 2005

Interactive Comment

Full Screen / Esc

Print Version

Interactive Discussion

Discussion Paper

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 12815, 2005.