

Interactive comment on “Rapid meridional transport of tropical airmasses to the Arctic during the major stratospheric warming in January 2003” by A. Kleinböhl et al.

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The evidence for the meridional transport of tropical air masses during the Arctic stratospheric warming event of January, 2003, is compelling, based upon the N₂O and ozone concentrations extracted from the remote sensing measurements. The results would be even stronger if the authors would compare their derived values with the in situ measurements that were being made on the DC-8 on the same dates as those of the Falcon.

As an additional sidenote, our measurements of very large values of black carbon during that time period and same region might possibly be explained by the transport mechanism described in this paper (Baumgardner, D., G. Kok, G. Raga, 2004: Warm-

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ing of the Arctic Lower Stratosphere by Light Absorbing Particles, GRL, 31, L06117, doi:10.1029/2003GL018883).

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4, S2386–S2387, 2004

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