

Interactive comment on “Episode of unusual high solar ultraviolet radiation in central Europe due to dynamical reduced stratospheric ozone in May 2005” by C. Stick et al.

C. Stick et al.

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We would like to thank referee #2 for the very fruitful comments which will help to improve and highlight our work on the unusual episode of high solar ultraviolet radiation and low total ozone observed over central Europe. In particular the suggestions for a more detailed review on summer ozone mini-holes in contrast to the winter events and the suggestions on including more background on the synoptical situation has improved our study.

In particular, we want to answer the minor points:

1)The suggested papers and other relevant papers have been added in the introduction

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and in the conclusion of the ms to give a better overview of the subject.

2) We have added synoptic maps and explanations which will clarify the particular interesting case study for the occurrence of this unusual late spring ozone mini hole over central Europe. Assimilated ozone for various altitudes using available satellite measurements are now included which demonstrate that this late spring ozone mini hole was mainly caused by an ozone reduction in UTLS region. This change is carefully added throughout the ms.

Minor points:

1) The life-cycle of this event of about 1 week has been added in the ms. 2) "Ozone column" has been used now. 3) Will be corrected in the final version. 4) Has been changed to 2 "PVU iso-surface". 5) Abstract: the phrase has been cut out.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 10409, 2005.

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