

Interactive comment on “The role of ozone atmosphere-snow gas exchange on polar, boundary-layer tropospheric ozone – a review and sensitivity analysis” by D. Helmig et al.

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This is a good paper with interesting results presented in a clear, well-written manner. However, I agree with the comments of the anonymous reviewer that the "review" portion of the paper is the weakest part. It is not that it is poorly organized or badly written, but more that it is hard to tell how it connects with the results of the modeling study. My suggestion follows that of the reviewer, that the review section be shortened and that the processes that this particular sensitivity analysis studies be clearly stated.

However, my suggestion is only a suggestion and not a prerequisite for publication

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in ACP. The review section could be left as-is, but in reading the paper the extensive mention of all sources of variance in ozone fluxes in the review was somewhat confusing given the relative simplicity of how the variance was parameterized in the model runs. In short, the detailed review was somewhat distracting, rather than helpful, in understanding the modeling results and analysis.

Interactive comment on *Atmos. Chem. Phys. Discuss.*, 6, 755, 2006.

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