

Interactive comment on “Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations” by A. E. Bourassa et al.

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Thank you for the positive comments.

Regarding the minor comments:

1. We are not aware of any technical or structural cause for the increased bias at latitudes south of 50 S. It does not seem to be related to sampling or any retrieval deficiency. However, the bias removal that we perform in the merging seems to handle this and there is no indication that there is a significant effect on the resulting trends. The correlation to tropopause pressure in this region is somewhat interesting, but we

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have no further insight into the cause.

2. The observed ozone enhancements during warm ENSO events at northern mid-latitudes is indeed in agreement with previous work, and we have added the following statement and reference at the end of this discussion in the revised manuscript. “The ENSO projection also shows out-of-phase patterns in the NH midlatitude lower stratosphere, corresponding to ozone enhancements during ENSO warm events (consistent with observations of column ozone over midlatitudes, e.g. Bronnimann et al, 2004).”

3. As noted in the response to the other referee, we have added a paragraph discussing the comparison of the results with those from SCIAMACHY and MIPAS.

Figures:

Fig. 2 caption has been revised to include explanation of “a” and “b” regions. We are unsure of the requested change to be made to the Fig. 6 caption.

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