

## ***Interactive comment on “Antarctic stratospheric warming since 1979” by Y. Hu and Q. Fu***

**Y. Hu and Q. Fu**

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Reply to Reviewer #2's comments on "Antarctic stratospheric warming since 1979" by Hu and Fu

We thank the reviewer for the comments, which are very helpful for improving our paper. Replies to the comments are as follows.

(1) There are several places in the manuscript where the reader would benefit from additional references, which are needed to strengthen the point that authors are making. As authors revise the manuscript, really place their selves in the reader's position and make an attempt to carefully document key points. For instance, although authors are discussing the unprecedented major SSW over Antarctica in 2002, at various places in your manuscript there is no any reference to the first journal publications on the subject. A few additional examples: - Page 1705, lines 15-16: Put reference about the unique sudden warming event occurred in the Antarctic in 2002. - Page 1711, lines

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7-9: Insert additional references (in particular those that have been published earlier).

Agree. Following the reviewer's suggestion, we will add references on the unique Antarctic stratospheric sudden warming in Sept., 2002. We found an early review paper in Environ Sci & Pollut Res, 11 (6) 405-411 (2004) on the unique event and a whole volume of papers in Journal of the Atmospheric Sciences (2005, Vol. 62). These will be added to the revised version.

(2) A good editorial review would greatly benefit the manuscript.

Yes, we will carefully revise the manuscript.

In conclusion, although the algorithms applied are well documented, the applications where these algorithms have been applied are not mentioned. The authors should reference in the Introduction previous scientific work on the subject.

We will give a better introduction on the methods applied in the paper.

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Interactive comment on Atmos. Chem. Phys. Discuss., 9, 1703, 2009.

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