

A 2nd Review of “Comparison of Antarctic polar stratospheric cloud observations by ground-based and spaceborne lidars and relevance for Chemistry Climate Models” by M. Snels et al.

<Main Comments>

The authors have considerably revised the presentation of their results since the first submission, especially on comparison of PSC statistics from CALIOP with several CCM model results. They also made several changes in the description on PSC detection and classification schemes (Section 2.3-2.5), which enables readers to understand the method used in this study well. Several typos and careless mistakes are mostly corrected as appropriate. The authors also replied to most of my major comments in the revised manuscript. I feel that the revised manuscript is almost acceptable for publication in ACP, after some minor points are revised as is pointed out below.

<Minor Comments>

(M1) P2, L8: The abbreviation of CALIOP should also be shown here, in addition to the abstract.

(M2) P2, L32: clouds and aerosol --> clouds and aerosols

(M3) P3, L10: Chemistry Climate Models --> CCMs

(M4) P15, L23-25: A reference for this sentence should be shown.

(M5) P22, L14: The reference for CCMVal-2 report, 2010 should be shown in the reference list.