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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Detection of particles layers in backscatter profiles: application to Antarctic lidar measurements" *by* J. Gazeaux et al.

Anonymous Referee #1

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The paper contains original material and describes a technical approach to detect polar stratospheric clouds. The paper is already in a very good shape so that only minor revisions are needed.

However, AMT would be the optimum journal for this technical paper. But we know that there is no clear line (strategy in this respect) in the AMT/ACP world.

Details:

The text is ok, no questions are left!

Figure 1: ..PSC between 16 and 24 km... ist stated, but I see the cloud between 20 and 21 km

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Figure 2: I would like to see the curve (red line) in lower right corner plot also in the large plot (bottom) so that one can compare the two red lines (slopes). This is not possible at the moment. So, it is not possible to contrast inside-PSC and outside-PSC curves to see how sensitive the detection method has to be to detect PSC.

Figure 3: The dotted lines (upper right corner) are dashed horizontal lines! A bit confusing.

Figure 8: y-axis text and numbers are bad. . . I would prefer: just one line of text (one big expression: Altitude, km . . . (one time for all four plots), only at the left side). And at each plot four numbers 10 15 20 25 (but turn the numbers by 90 degree).

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 21935, 2011.

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Interactive Comment