

Interactive comment on “Polar stratospheric cloud climatology based on CALIPSO spaceborne lidar measurements from 2006–2017” by Michael C. Pitts et al.

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Anonymous Referee #1 seems to have misinterpreted our definition of attenuated scattering ratio, R'_{532} , as defined on page 5 (lines 30–31):

$$R'_{532} = \frac{(\beta'_{par} + \beta'_{perp})}{\beta_{mol}}, \quad (1)$$

where as stated on page 5 (lines 24–25), β'_{par} is the attenuated parallel backscatter and β'_{perp} is the attenuated perpendicular backscatter. We use the subscript “par” to represent the parallel component of backscatter, NOT the particulate component as

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we think the Referee has interpreted. Therefore, our definition of R'_{532} (Eq. 1 above) is equivalent to Referee #1’s Eq. 2, with the exception of the prime symbols denoting attenuated backscatter quantities.

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