

Interactive
Comment

Interactive comment on “On cloud ice induced absorption and polarisation effects in microwave limb sounding” by P. Eriksson and B. Rydberg

Anonymous Referee #2

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This paper gives an overview of cloud scattering effects on millimeter radiation signals. It appears thorough and the authors demonstrate a good working knowledge of the subject. It also presents some practical design features that one should use in building radiometers to optimize measuring ice water content that minimizes its dependency on signal polarization. My one question relates to the comment line 6 on page 1508 that says (paraphrase) correlation between D_i and Q disappear for multi scattering where the high τ have mainly negative D_i and Q is scattered about zero in figure 5. To me figure 5 shows D_i as always positive and Q is always negative (albeit both are trending toward zero for $\tau > 0.5$).

Interactive comment on Atmos. Meas. Tech. Discuss., 4, 1493, 2011.

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