

Editor Comments

: Dear Dr. Horner,

Thank you for the adjustments made to your manuscript in response to the thoughtful reviewer comments. I have one further recommendation prior to publication following on the comment from Jay Mace about ice crystal concentrations. In the methods section it would be beneficial I believe if a few words of justification were given for why the ice crystal number concentration is reported given that indeed N_i is quite difficult to retrieve and that other quantities such as ice water content might be seen as more reliable. Otherwise, I look forward to publication of your interesting manuscript about the evolution of cirrus outflows. Congratulations.

Best regards,

Tim Garrett

Reply: We thank the reviewer and editor for all of their help during the publication of this manuscript. We address the final revision from the editor on lines 100-104: *To illustrate the vertical cloud evolution and microphysical properties the DARDAR dataset, an ice cloud retrieval product that combines measurements from the CloudSat radar and CALIPSO lidar (Delanoë and Hogan, 2008; Sourdeval et al., 2018), is used. N_i is highlighted from the DARDAR data due to the complimentary information it provides about cloud history compared to the large scale properties from ISCCP (Krämer et al., 2016).*