

Supplement of

**Environmental Effects on Aerosol-Cloud Interaction in non-precipitating
MBL Clouds over the Eastern North Atlantic**

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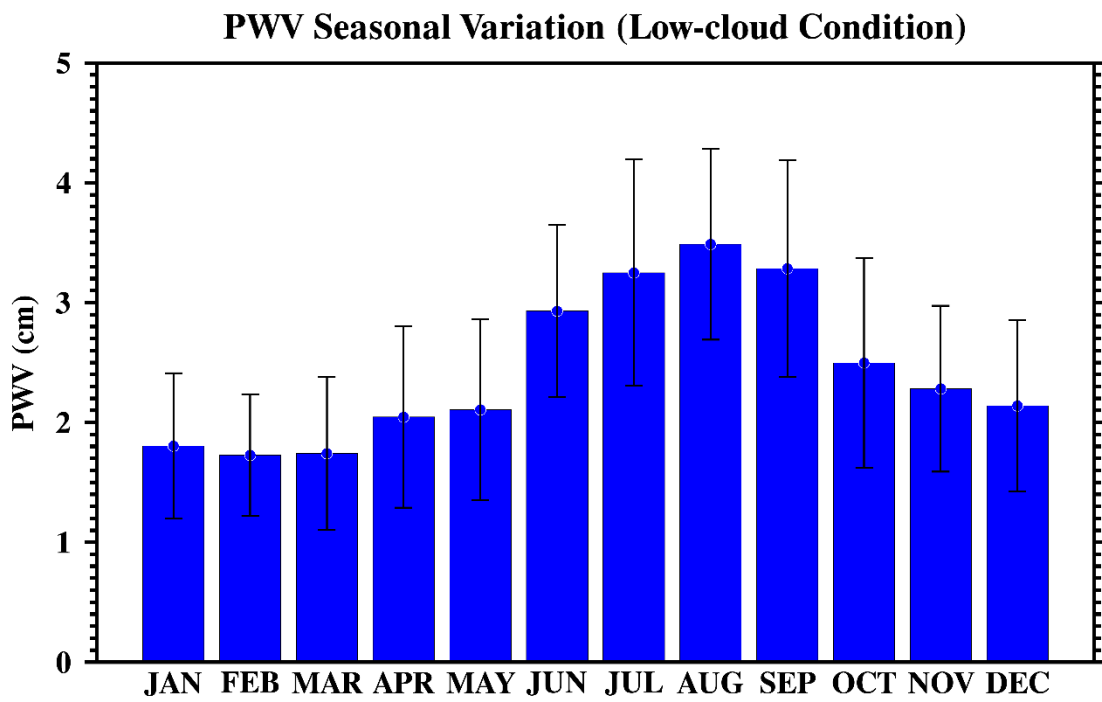


Figure S1. Seasonal variation of PWV under single-layer low cloud conditions, from 2016 to 2018. Whiskers denote one standard deviation for each bin.

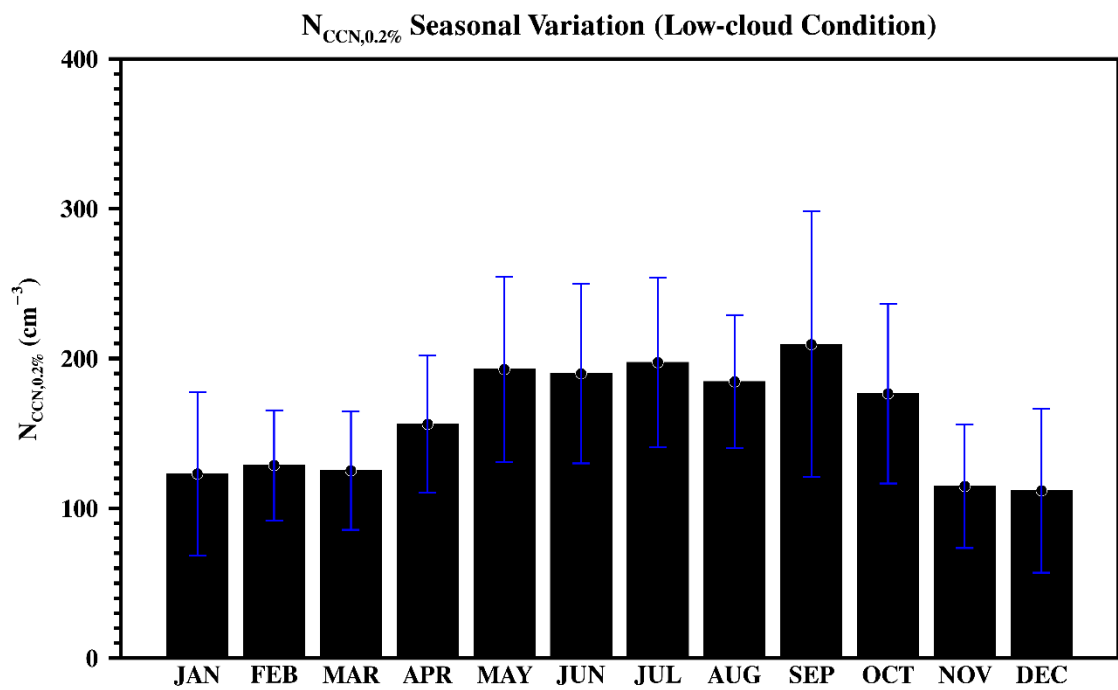


Figure S2. Seasonal variation of N_{CCN} at 0.2% supersaturation level under single-layer low cloud conditions, from 2016 to 2018. Whiskers denote one standard deviation for each bin.

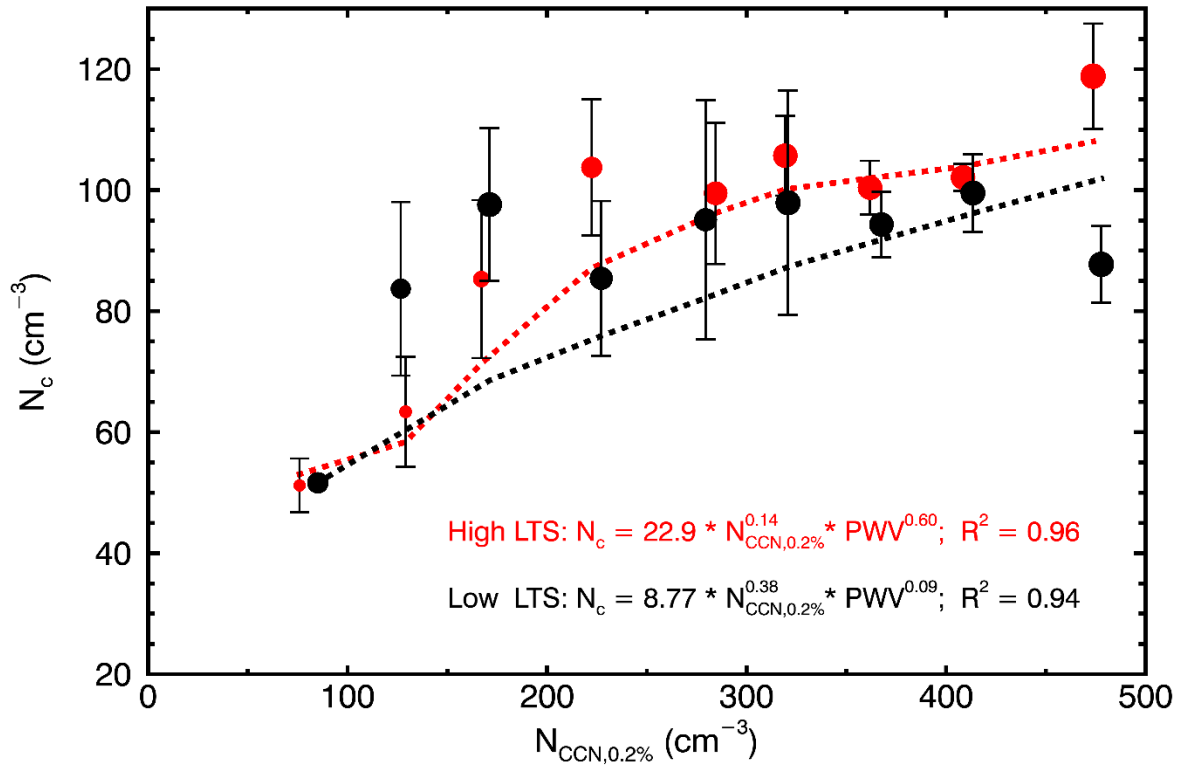


Figure S3. N_c as a function of $N_{CCN,0.2\%}$ (x-axis) and PWV (dots) for high LTS (red) and low LTS (black) regimes. The larger circles represent relatively higher PWV values. Whiskers denote one standard deviation for each bin.

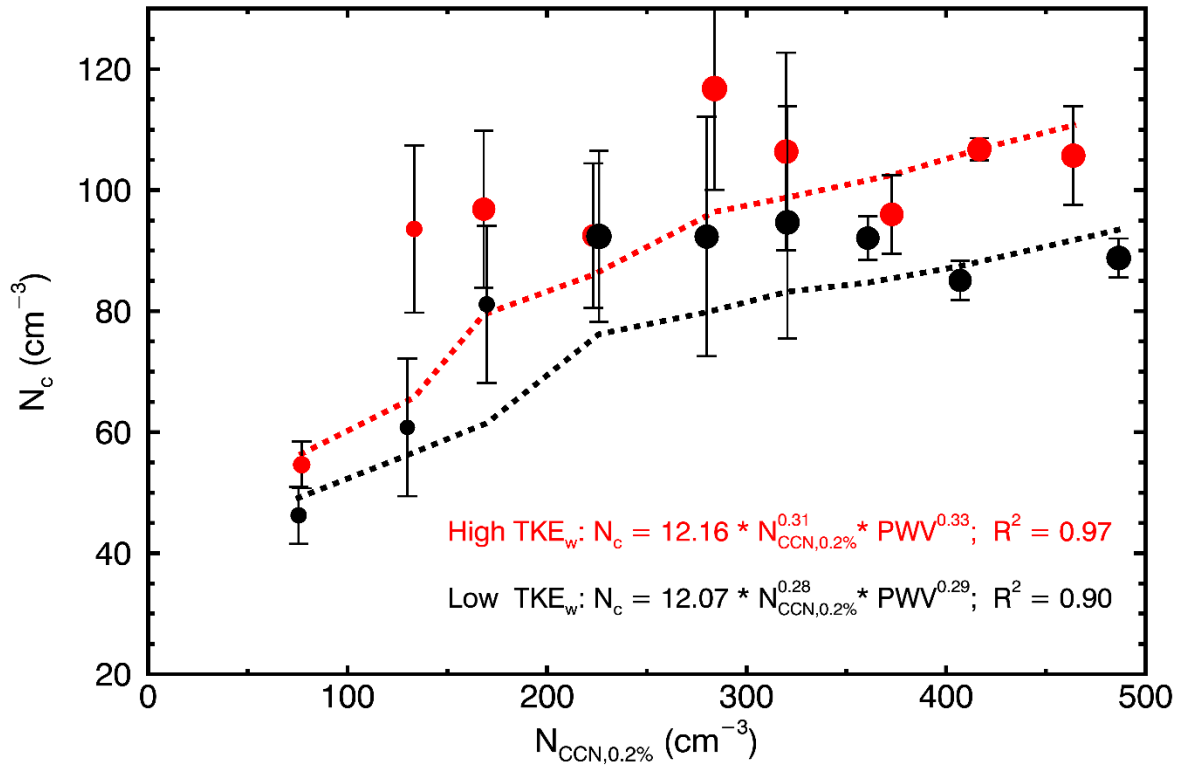


Figure S4. N_c as a function of $N_{CCN,0.2\%}$ (x-axis) and PWV (dots) for high TKE_w (red) and low TKE_w (black) regimes. The larger circles represent relatively higher PWV values. Whiskers denote one standard deviation for each bin.