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.

High LTS: \(N_c = 22.9 \times N_{CCN,0.2\%}^{0.14} \times \text{PWV}^{0.62}; \ R^2 = 0.96\)

Low LTS: \(N_c = 8.77 \times N_{CCN,0.2\%}^{0.36} \times \text{PWV}^{0.09}; \ R^2 = 0.94\)
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.