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Supplement of

Constraining the aerosol influence on cloud liquid water path

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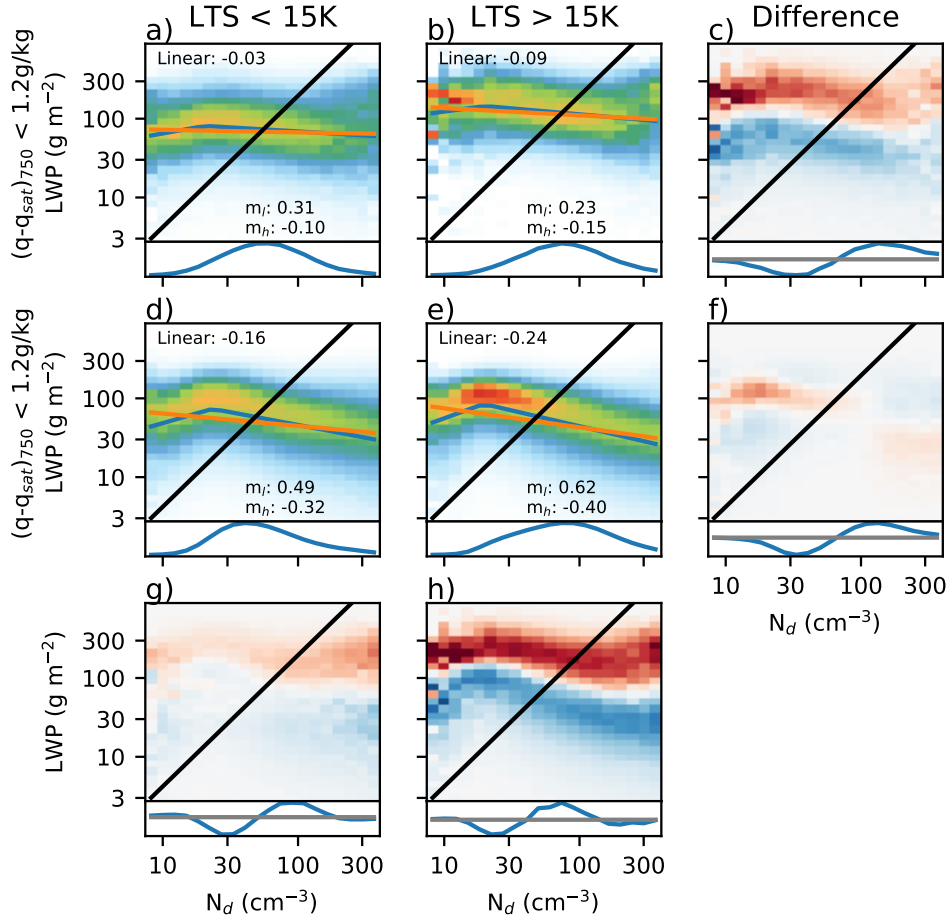


Figure 1: As Fig. 4, but using the saturation deficit at 750 hPa instead of the relative humidity. Joint histograms (as in Fig. 1) created for meteorological conditions, separating by saturation deficit at 750 hPa and LTS. The difference plots are shown at the end of each row/column, with red above blue in each column showing an increase in AMSR-E in-cloud LWP at high LTS/ SD_{750} for a given N_d . The histograms under each joint histogram show $P(N_d)$ for each set of meteorological conditions.