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Advancing the quantification of aerosol-cloud interactions with the CALIPSO-CloudSat-Aqua/MODIS record

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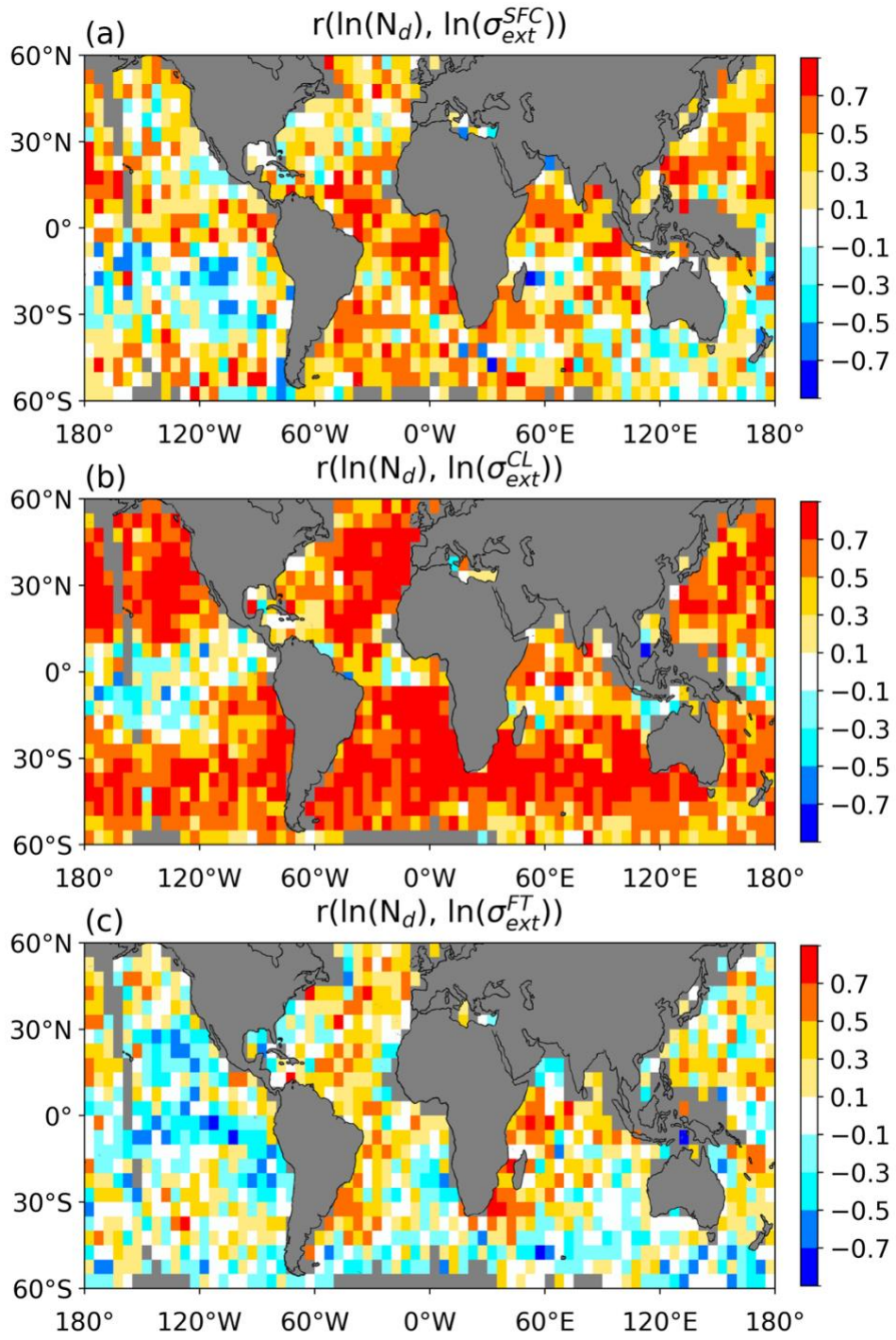

Figure S1: Gridded maps of Pearson correlation coefficient between MODIS N_d and (a) surface layer σ_{ext} (σ_{ext}^{SFC}), (b) cloud level σ_{ext} (σ_{ext}^{CL}), and (c) free tropospheric σ_{ext} (σ_{ext}^{FT}). Correlations are estimated after applying the natural logarithm to the variables.

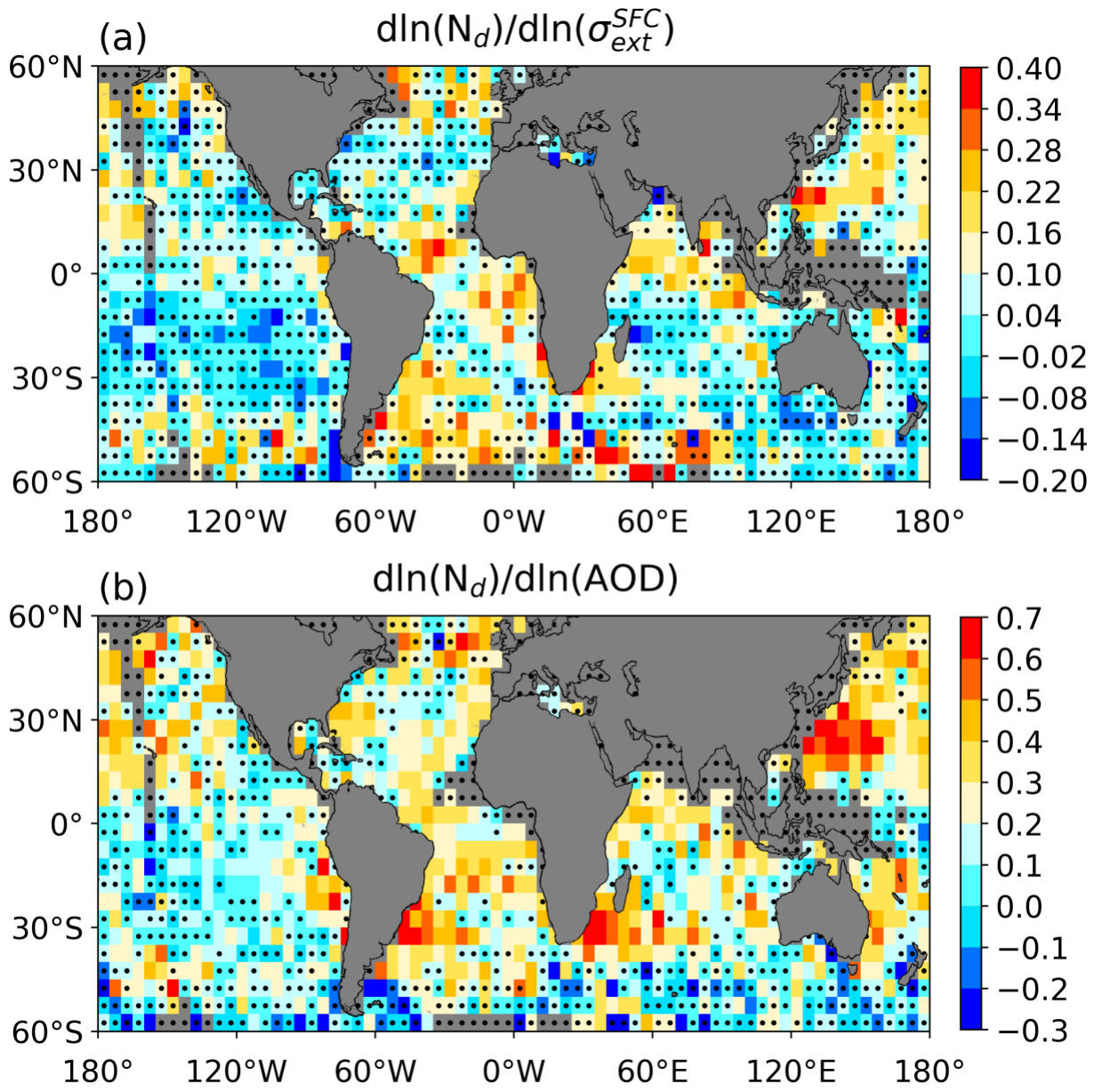

Figure S2: a) Gridded map of ACI index (d ln (N_d)/ d ln (σ_{ext}^{SFC})); b) Gridded maps of ACI index dln (N_d)/ dln (AOD), estimated from CALIOP-S AOD. Black dots indicate grids that are statistically indistinguishable from zero, according to a Student's t test at 95% confidence level.