Figure S1: Simulated and observed O$_3$ mixing ratios with enhanced VOC mixing ratios for scenario $FLASH\_noBL$.
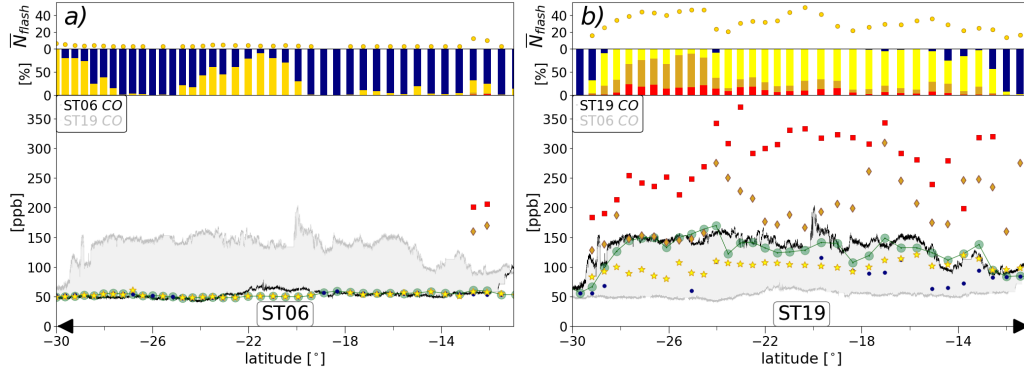
Figure S2: Simulated and observed CO mixing ratios.
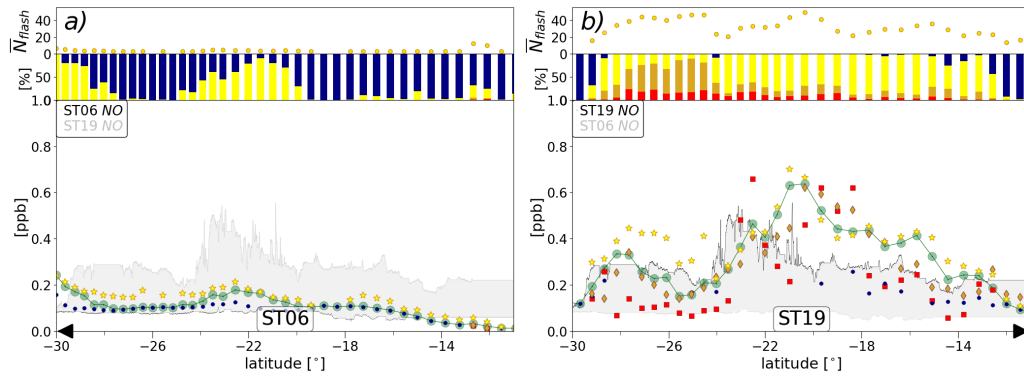
Figure S3: Simulated and observed NO mixing ratios.
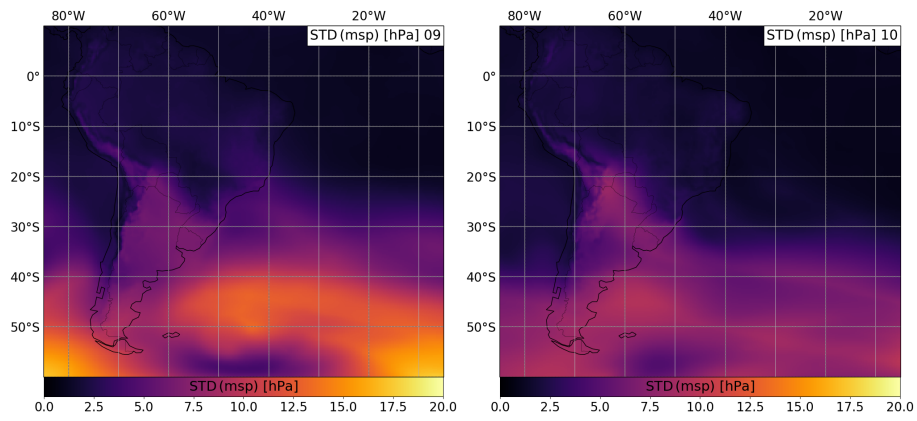
Figure S4: Plots show the standard deviation of the mean sea level pressure for the 7 days prior flights ST06 (left) and ST19 (right).