



Supplement of

UFS-RAQMS global atmospheric composition model: TROPOMI CO column assimilation

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S1. Background error covariance statistics

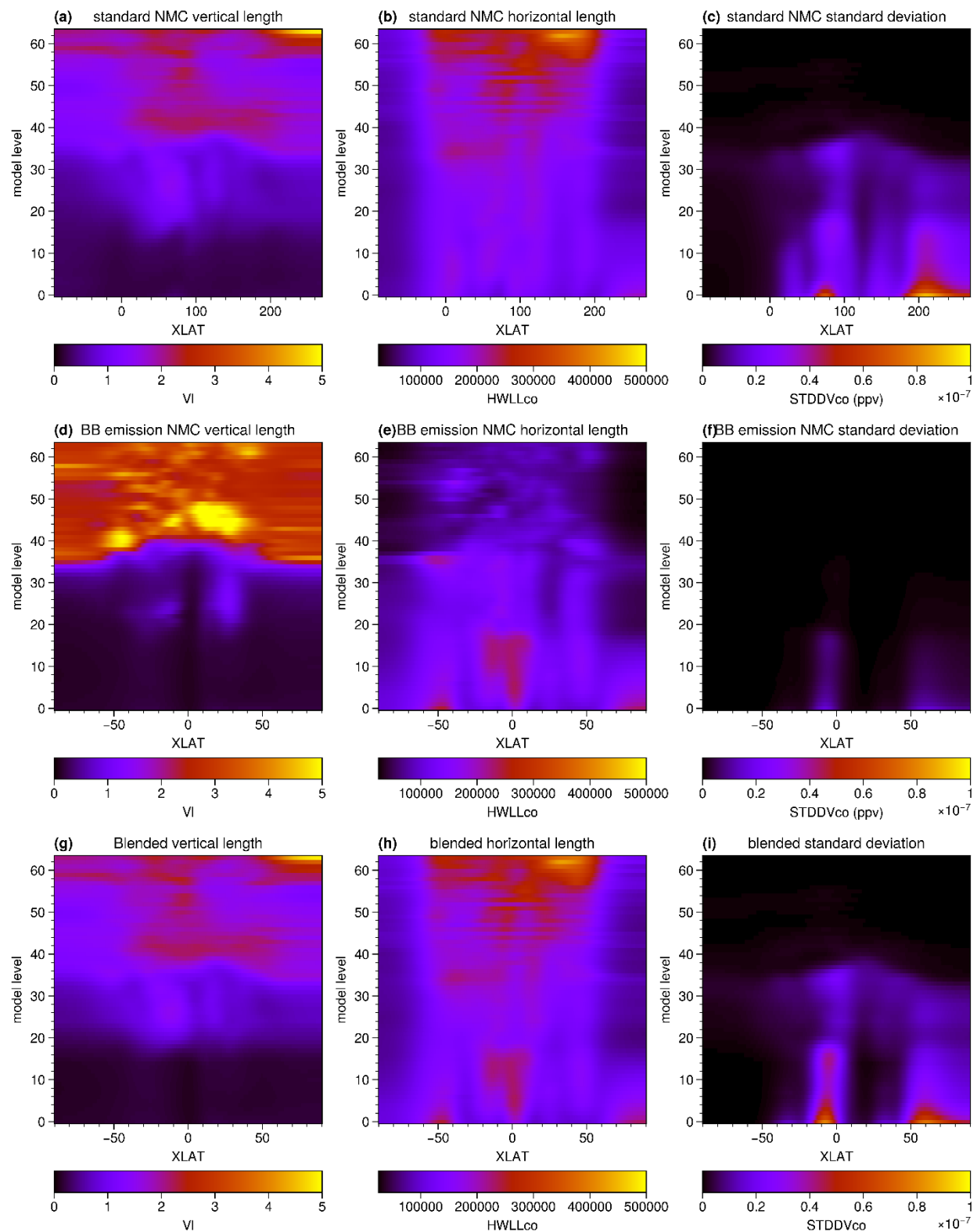


Figure S1. Background error covariance statistics for standard NMC method (a,b,c), biomass burning emissions sensitivity (d,e,f), and blended (g,h,i).

S2. NDACC FTIR apriori profiles and averaging kernels

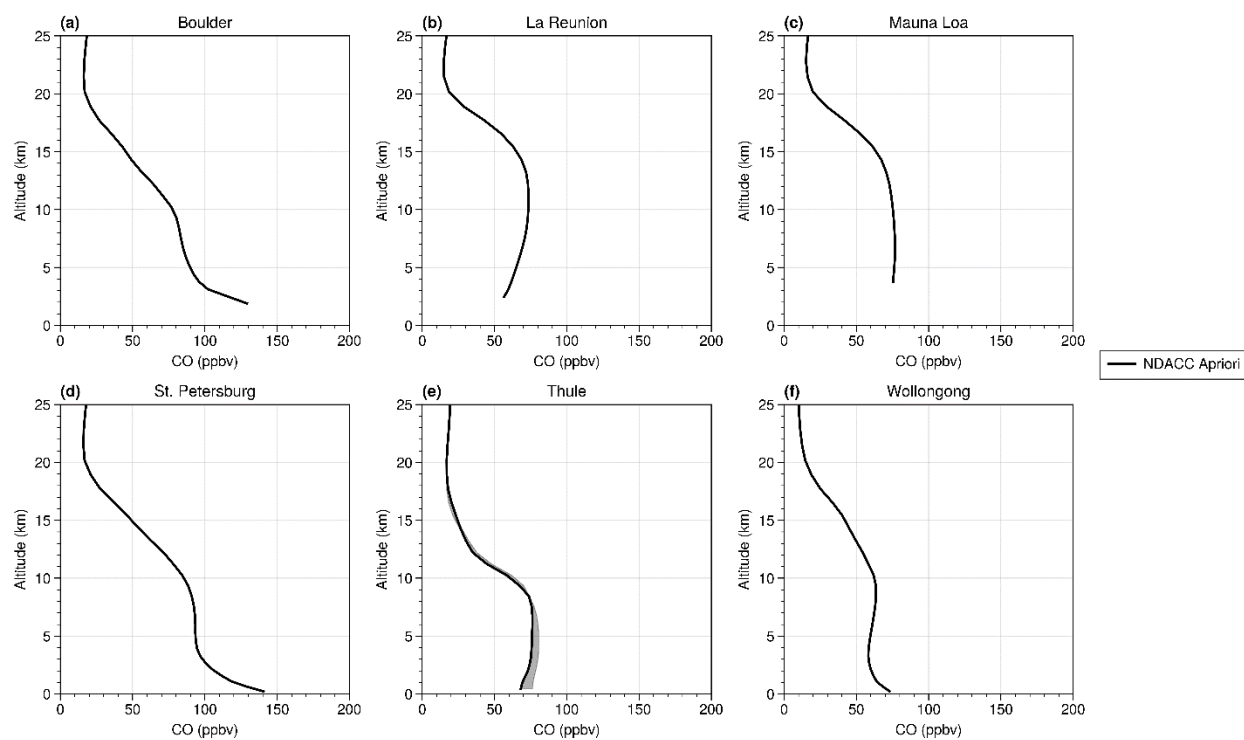


Figure S2. Average apriori profile.

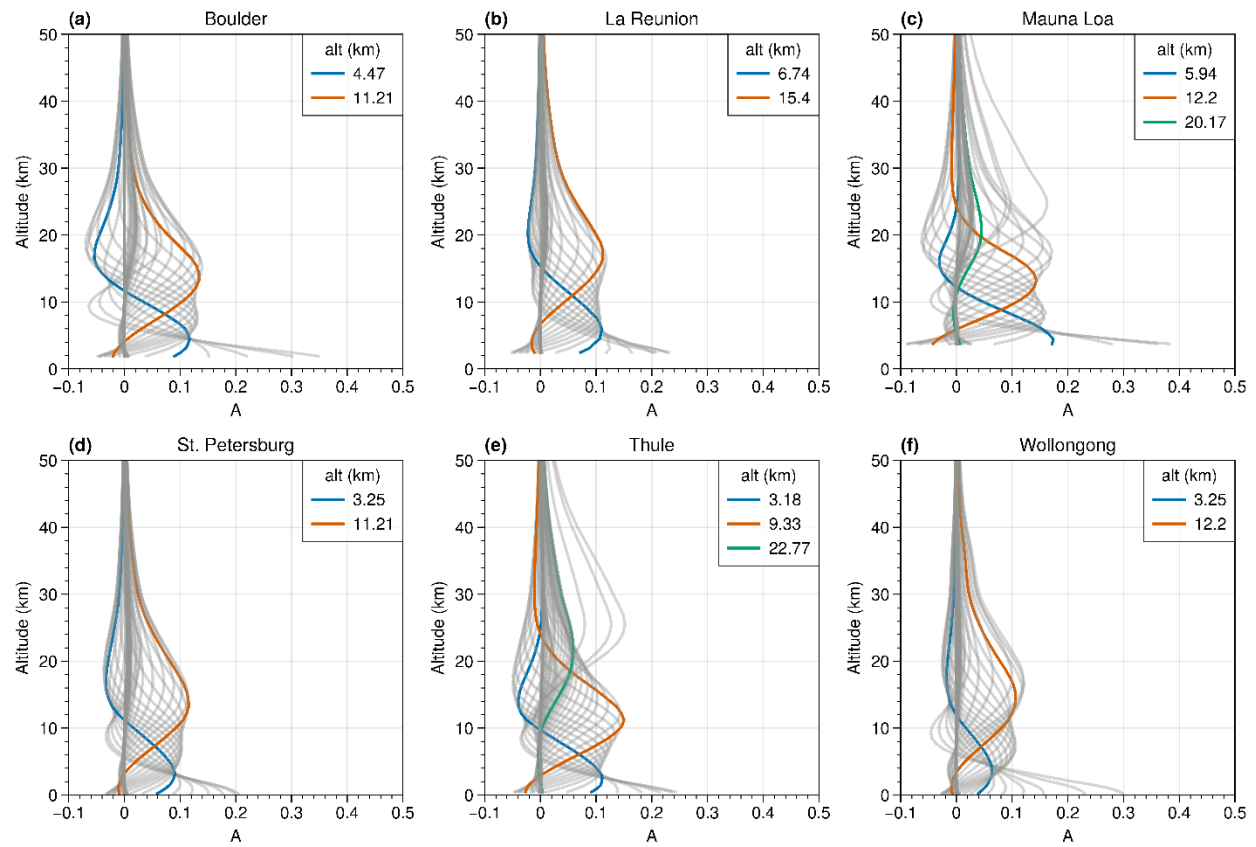


Figure S3. Average averaging kernels