



Supplement of

Evaluating consistency between total column CO₂ retrievals from OCO-2 and the in situ network over North America: implications for carbon flux estimation

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This document contains scatterplots showing the difference between simulations and OCO-2 retrievals (ΔX_{CO_2}) and several parameters, some of which are used in the bias correction of OCO-2 X_{CO_2} . In each figure, the top row contains correlations between a parameter of interest (e.g. AOD) and the difference between bias corrected and 'raw' OCO-2 retrievals (i.e., $\Delta X_{ret-ret,bc}$). The middle row contains correlations between a parameter of interest and the difference between simulated X_{CO_2} and OCO-2 retrievals prior to the bias correction ($\Delta X_{sim-ret}$). Finally, the third row shows correlations between a parameter of interest and the difference between bias corrected OCO-2 and simulated X_{CO_2} (i.e., $\Delta X_{ret,bc-sim}$). All parameters compared here are obtained from the OCO-2 v10 lite files, obtained at <https://disc.gsfc.nasa.gov/datasets?page=1&keywords=OCO-2>, last accessed on August 7, 2021

















