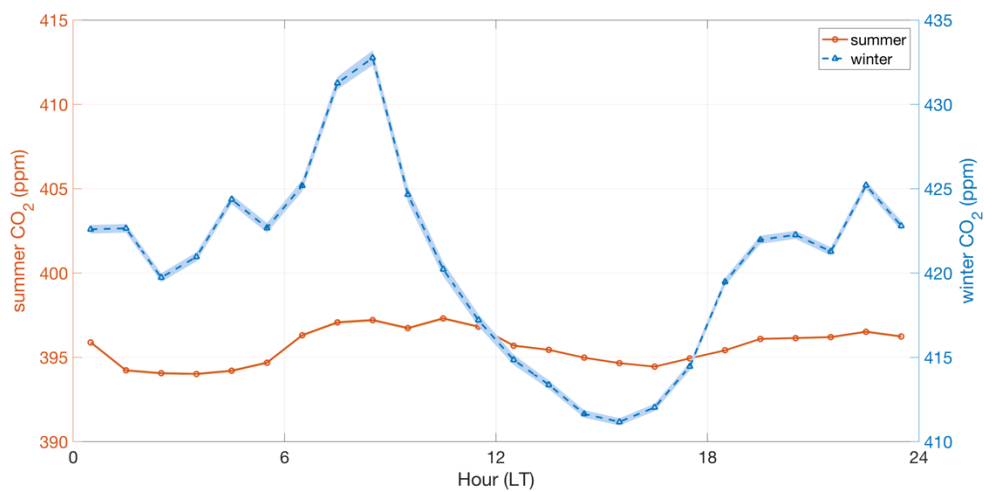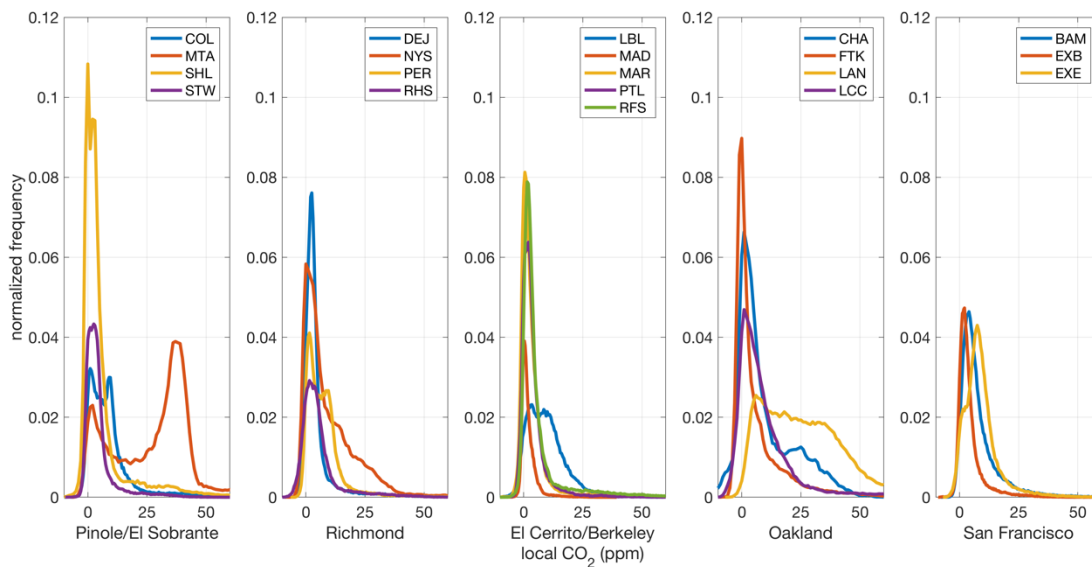*Supplement of*

Observing local CO$_2$ sources using low-cost, near-surface urban monitors

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Figure S1: Hourly median values of the network-wide, regional CO_2 signals calculated for summer (orange) and winter (blue) periods in 2013. Lighter colored curves indicate the standard error; note the difference in y-scale.

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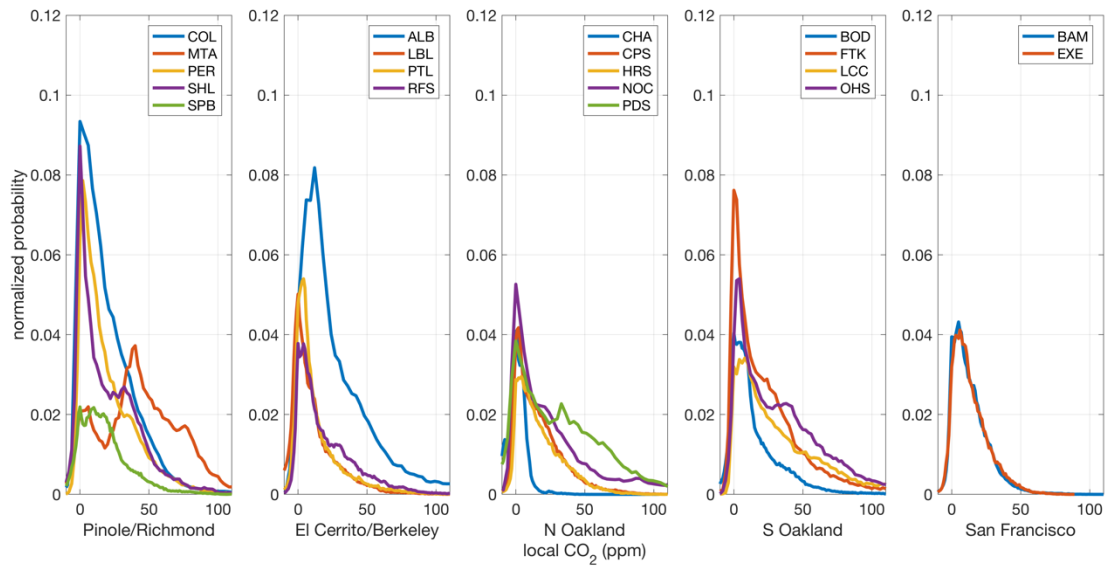**Figure S2: Normalized distributions of local CO$_2$ concentrations observed during summer 2017.**
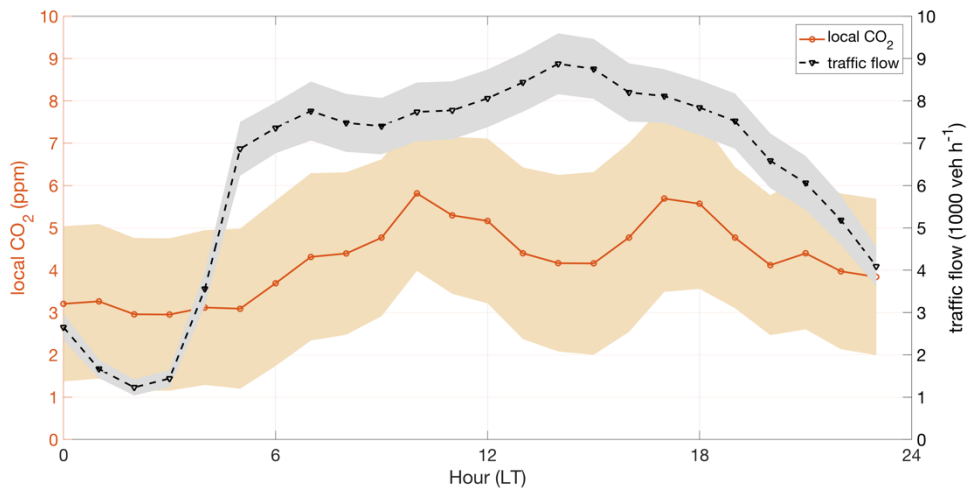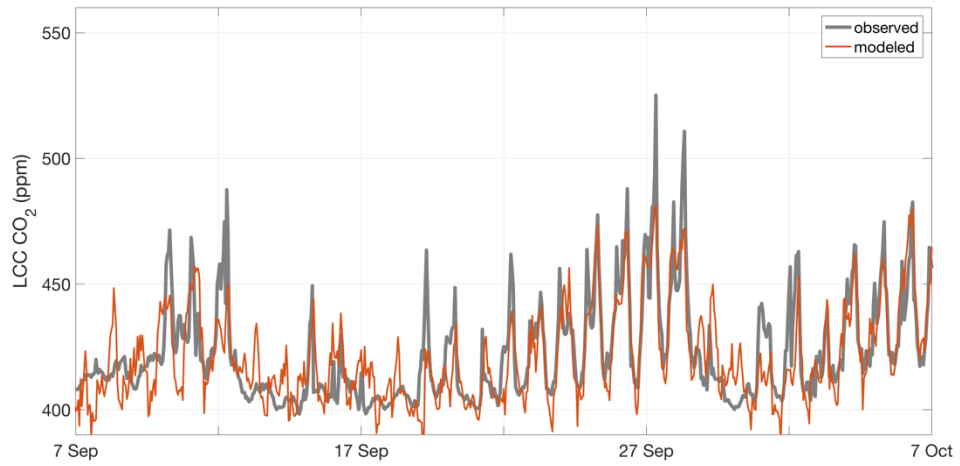
Figure S3: Normalized distributions of local CO$_2$ concentrations observed during winter 2017.

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5   **Figure S4: Hourly network-wide median local CO₂ and traffic flows observed during summer 2017. Lighter colored curves indicate standard error.**

5 **Figure S5: Representative month of total CO₂ concentrations observed (thick gray curve) and modeled (thin orange curve) at LCC site using a multiple linear regression approach based on de Foy (2018).**