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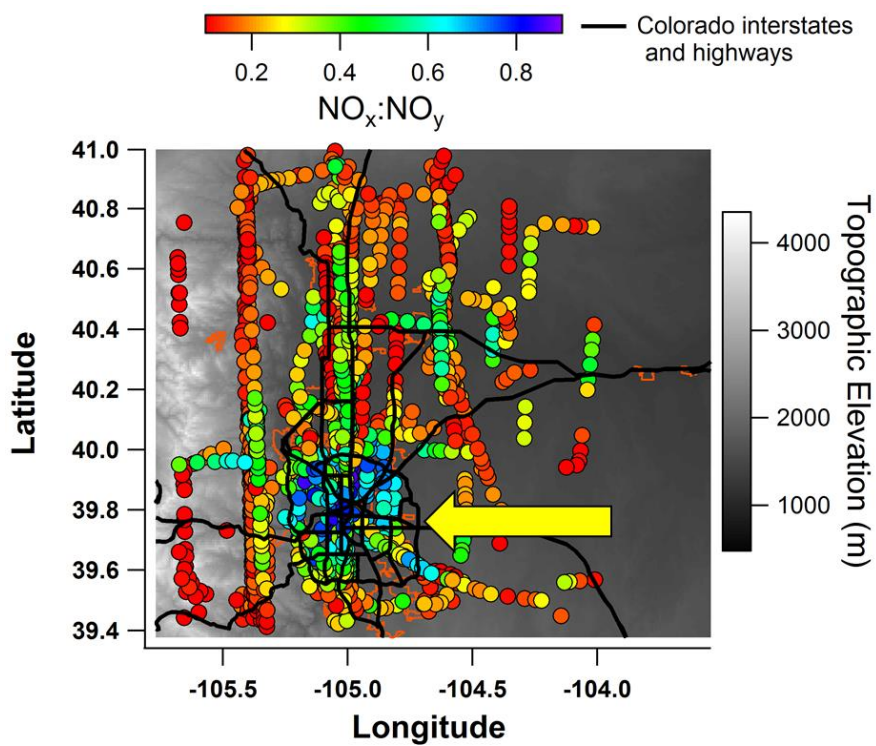
*Supplement of*

## **Aerosol optical extinction during the Front Range Air Pollution and Photochemistry Experiment (FRAPPÉ) 2014 summertime field campaign, Colorado, USA**

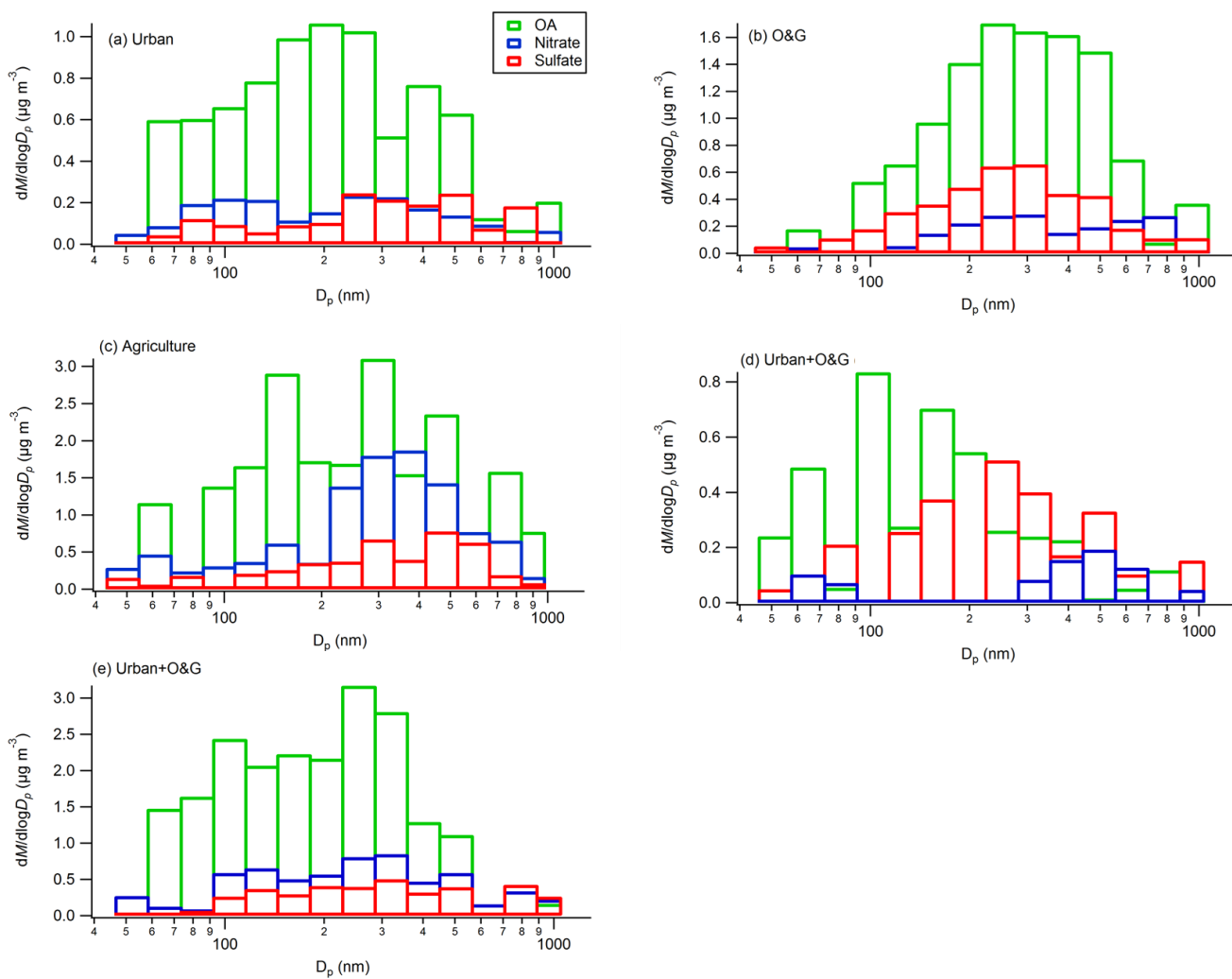
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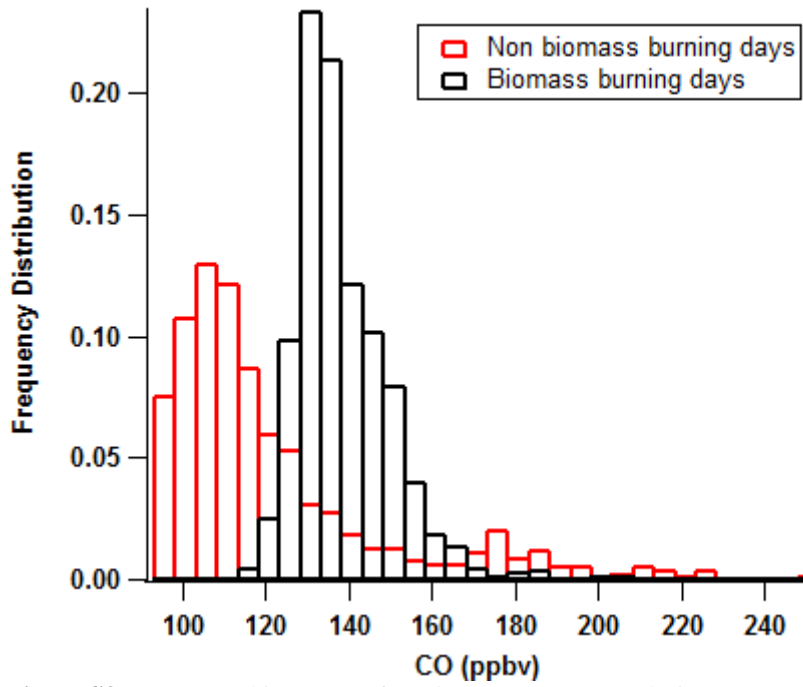
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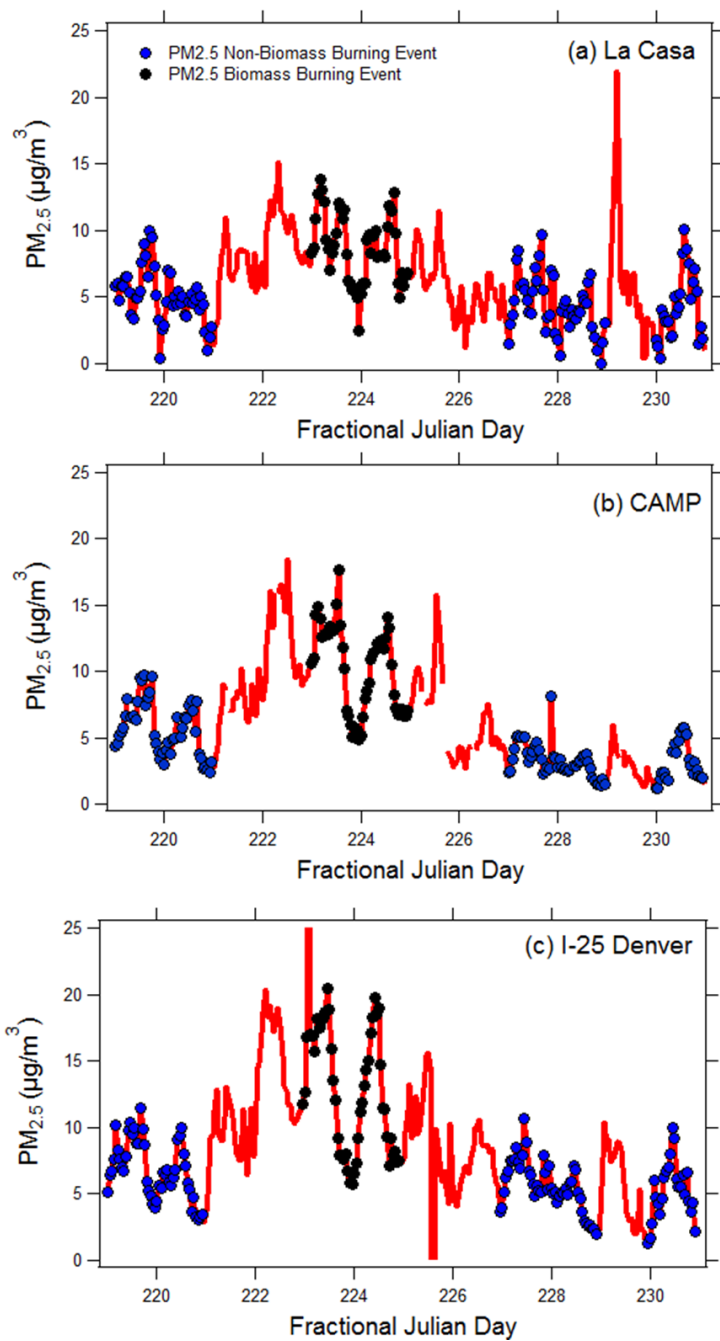
5 **Figure S1.** C-130 flight tracks in the Colorado Front Range, color coded by the observed  $\text{NO}_x:\text{NO}_y$  ratio to examine the photochemical processing of the pollutants in the area during all flights excluding the days when the Denver Cyclone and biomass burning were experienced. The arrow indicates the Denver metropolitan area. To the west of the Denver metropolitan area are the Rocky Mountain foothills depicted by the topographic color scheme.



**Figure S2.** Aerosol mass distributions for OA (green), nitrate (blue), and sulfate aerosols under (a-b) urban, (c) O&G, (d) 5 agriculture and (e-f) urban+O&G air masses.



**Figure S3.** Frequency histogram of CO in the Front Range during non-BB (red) and BB (black) days.



**Figure S4.** Time series for PM<sub>2.5</sub> at La Casa (a), CAMP (b) and I-25 (c) ground sites located in the Front Range during July 26 - August 18. Markers highlight the periods corresponding to the C130 flights.