

Supplementary material:

Figure S4: LIDAR observations

Halo (LIDAR) Indianapolis profiles of vertical velocity variance (color coded, m^2/s^2 , <http://www.esrl.noaa.gov/csd/groups/csd3/measurements/influx/index.php>) for Nov, 13th, 17th, 19th and 25th, i.e. when only one or no vertical profile was performed with the aircraft (date format is dd/mm). Convective Boundary Layer heights (z_i) corresponding to the duration of the experiment (black dashed rectangle) were averaged and used for emission rate extrapolation. Lidar data available at <http://www.esrl.noaa.gov/csd/groups/csd3/measurements/influx/>

