



Figure S1: Time-series for Los Angeles basin and desert observations. Averaged in 20 (a) and 30 (b) day bins, defined as in Fig. 1. Difference between 20 (c) and 30 (d) day averaged basin and desert values. The solid black line shows the average difference (3.3 ± 1.1 ppm for 20-day bins, 3.1 ± 1.2 ppm for 30-day bins). All error-bars plotted are one-sigma.