

We drove along the TES transect, which occurred at 13:26 PST on Jan 28, 2013. The TES footprints are illustrated by red large icons in the following figure. We started from southwest Bakersfield at 12:00 PST and left the transect at 14:30 PST. The route was planned to minimize the spatial and temporal difference from TES transect.

Ammonia concentration was measured at 5 Hz and averaged to 20 s for visualization. Colors of the lines denote concentration in log scale, whereas the heights of the lines are in linear scale. We observed high ammonia background (>100 ppbv) near the footprints at McFarland, Delano, and Earlimart. It spiked up to 1 ppm near the footprint at Tipton.



Methane, CO_2 , CO, and N_2O were also measured by the mobile platform. Figure below shows the methane distribution along the route, with linear height and color scales.

