

# ACAM Flight Report – California Deployment

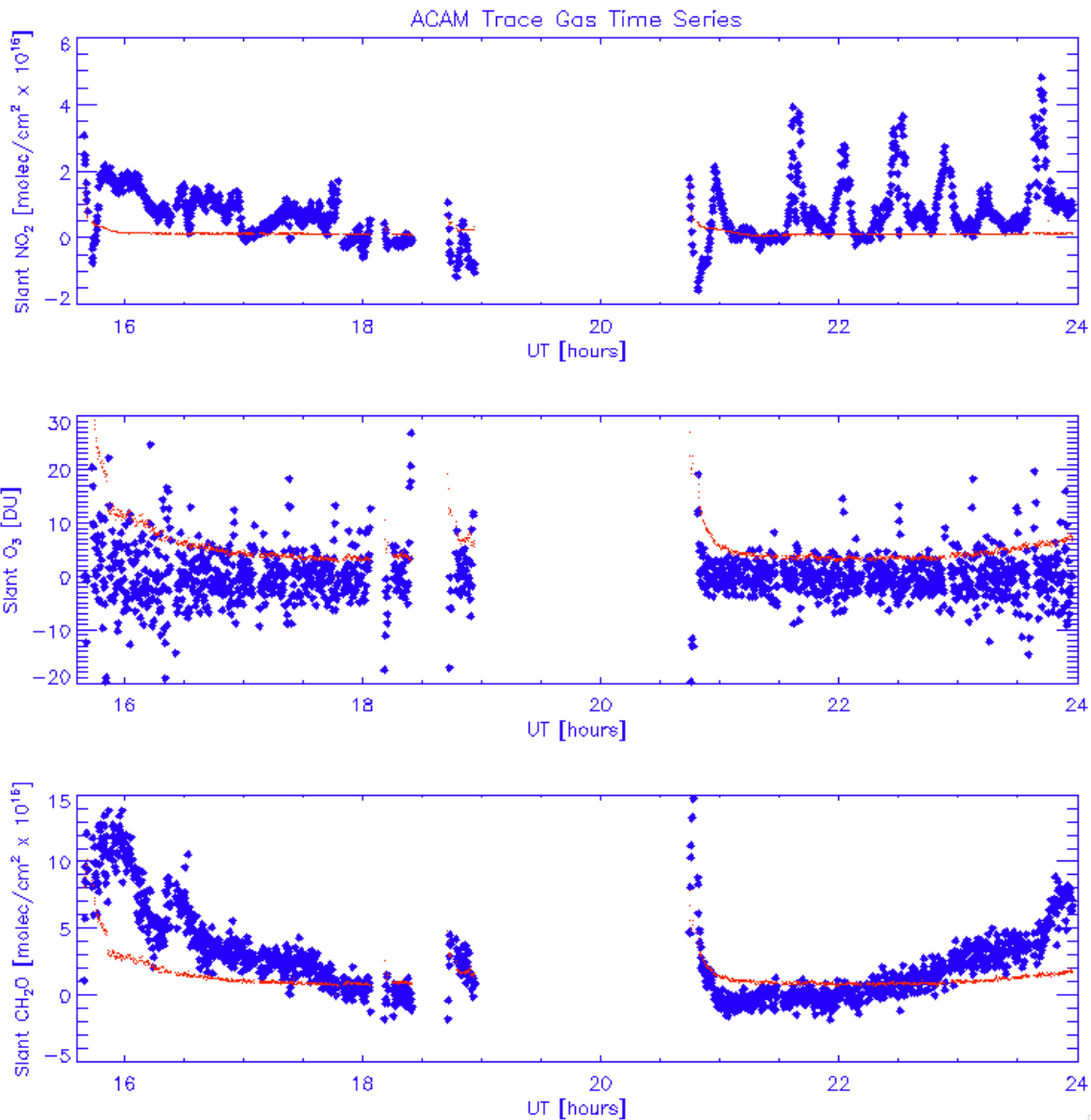
Date of operation: 01/18/2013

## Operations and instrument status

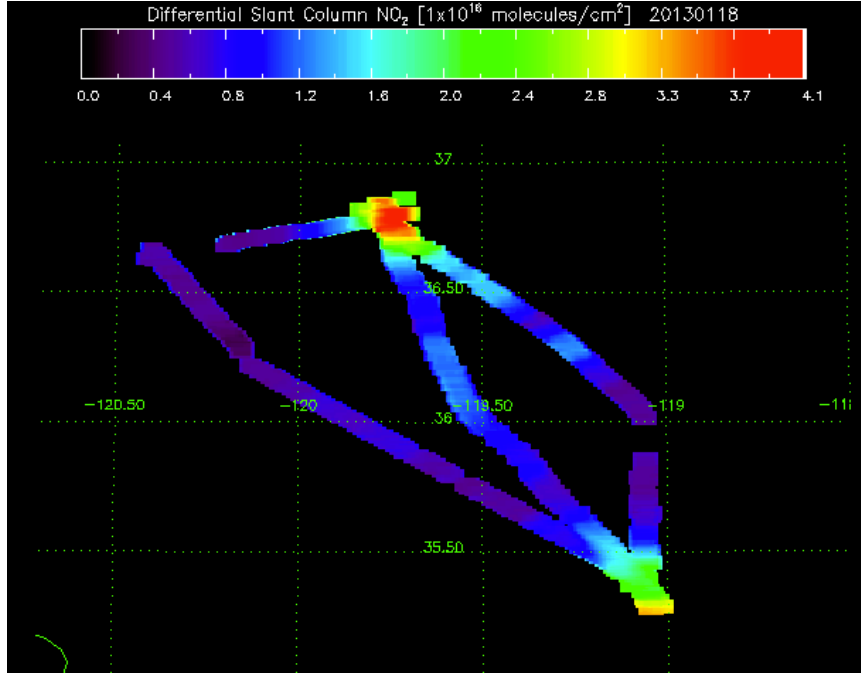
Instrument operated normally, HSRL crew successfully commanded instrument shutdown over ethernet.

## Science Summary

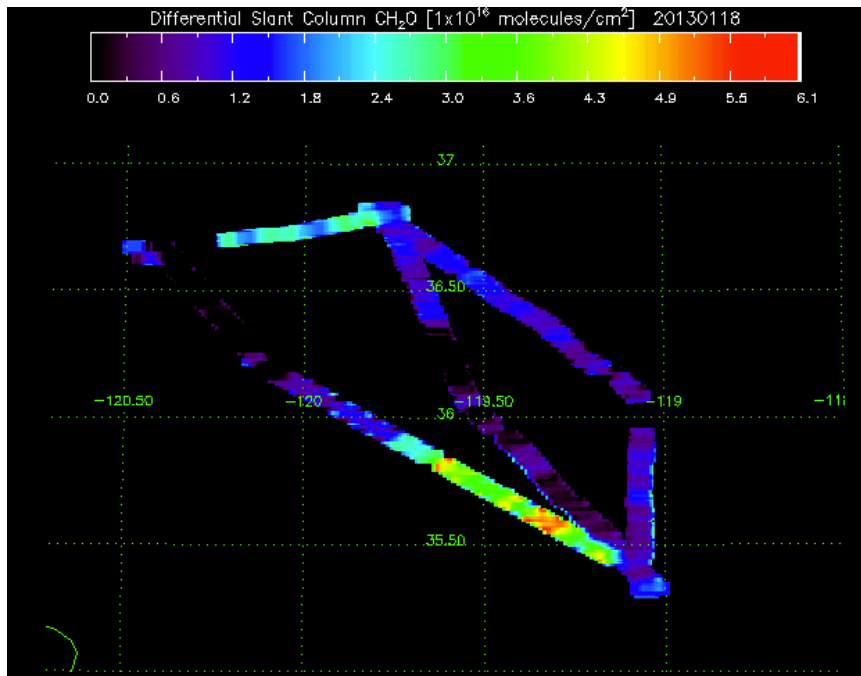
Trace gas measurements are shown below as differential slant column values relative to a minimum solar zenith angle reference. Large peaks of  $\text{NO}_2$  are seen in the Bakersfield and Fresno area especially in the afternoon. All other locations show relatively low levels.



## Time series plots of NO<sub>2</sub> O<sub>3</sub> and CH<sub>2</sub>



**NO<sub>2</sub> values over Fresno peak above  $4 \times 10^{16}$  molecules/cm<sup>2</sup> in the afternoon**



**There are two enhancements of CH<sub>2</sub>O seen only on the first leg of the morning flight, NW of Bakersfield and on the transit between the Tranquility and Fresno ground sites. The same enhancements were observed on the 1<sup>st</sup> science flight as well.**