



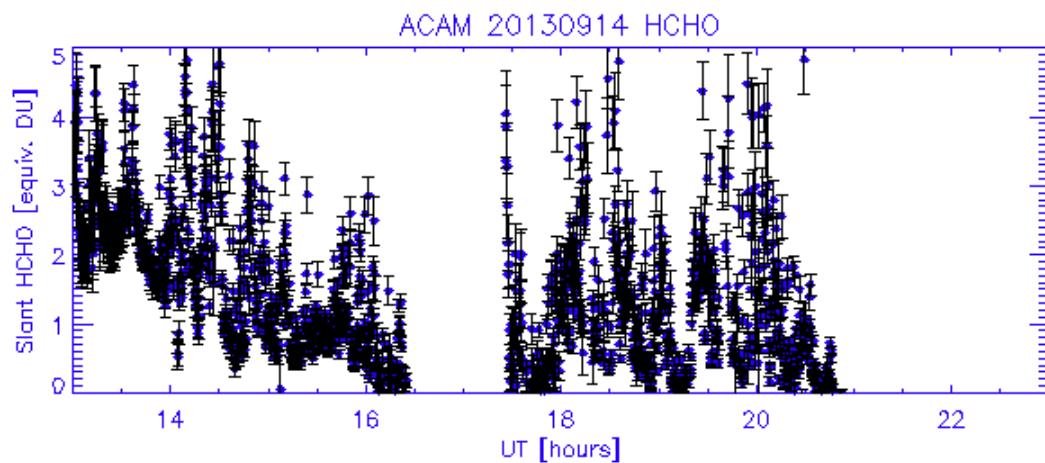
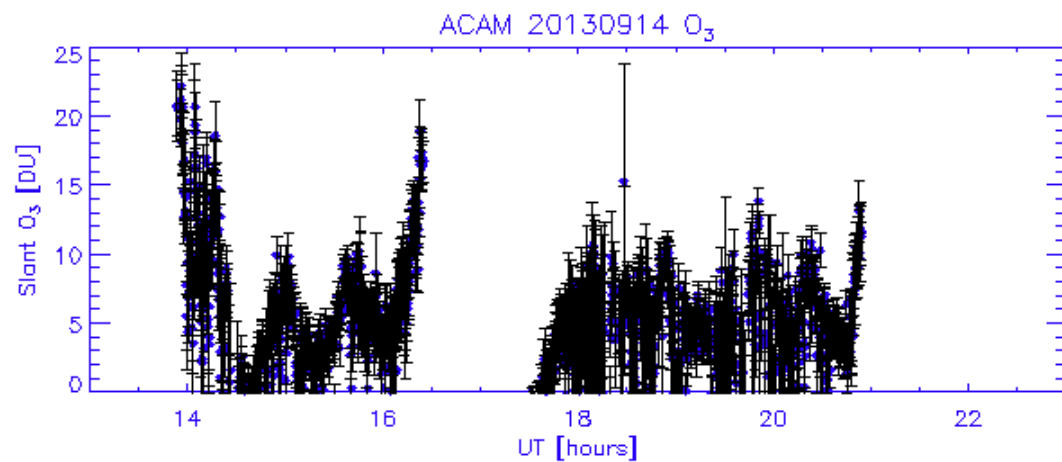
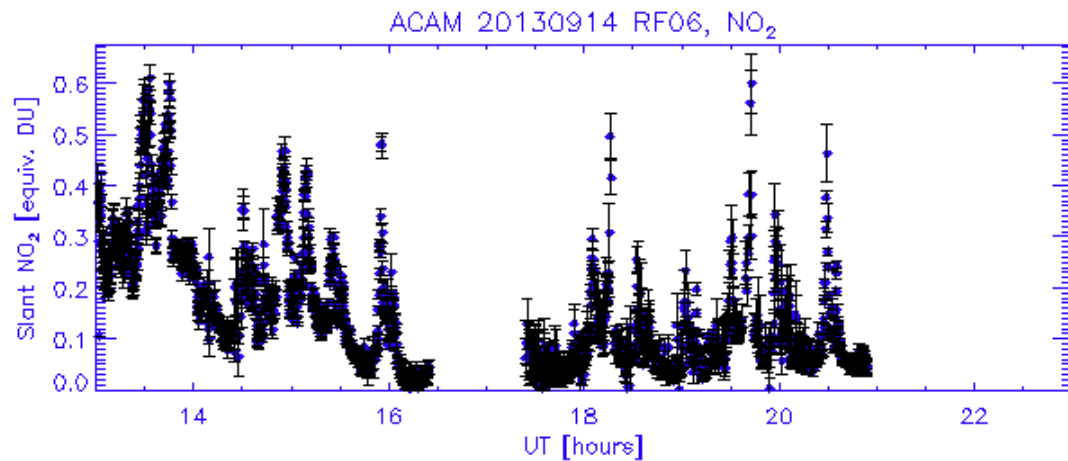
ACAM Flight Report

2013-09-14

Operations Summary RF06

The ACAM instrument operated normally during the flight. Conditions were similar to the previous days flights and enhanced values of NO_2 , CH_2O , and O_3 were observed throughout the day. Afternoon conditions were progressively cloudier preventing contiguous coverage over some areas.

The following retrievals are swath averaged [7km across track by 1.3 km meters along track].



Trace gas slant column amounts

Enhanced values of NO₂ were seen in the West Houston, Channel view, and Manvel Croix areas in both the morning and afternoon legs at somewhat lower levels than peak values from some previous flights.

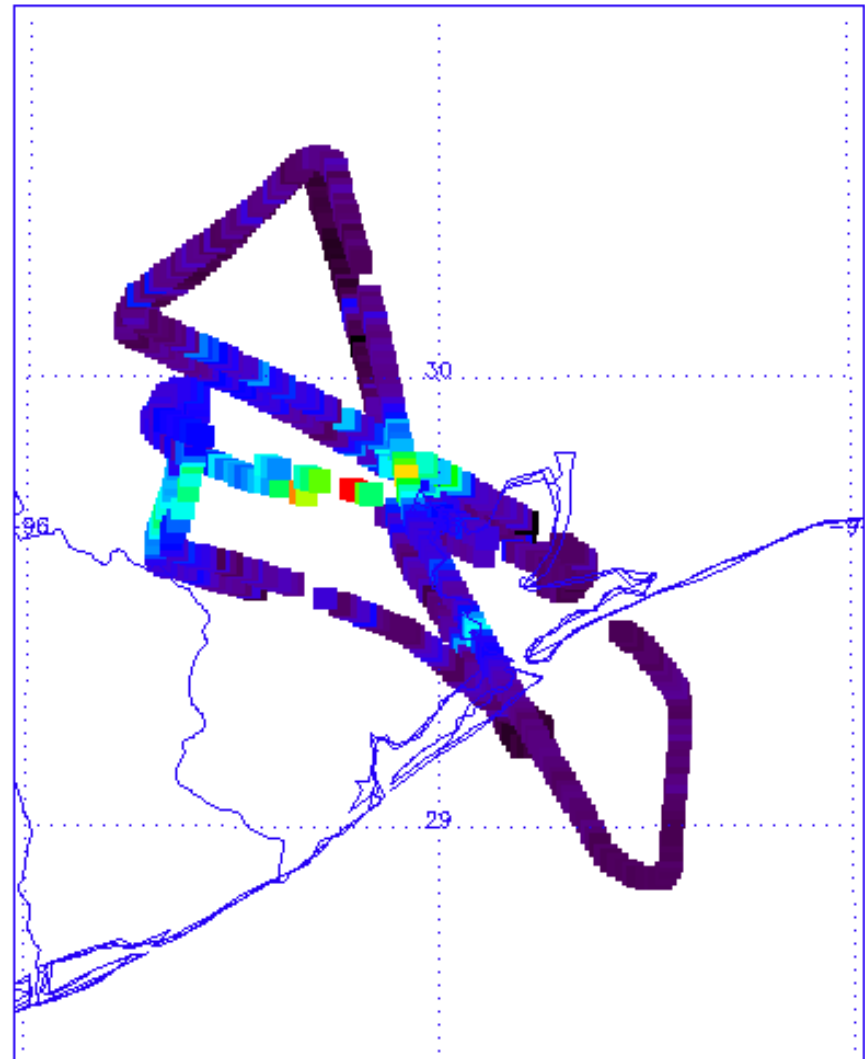
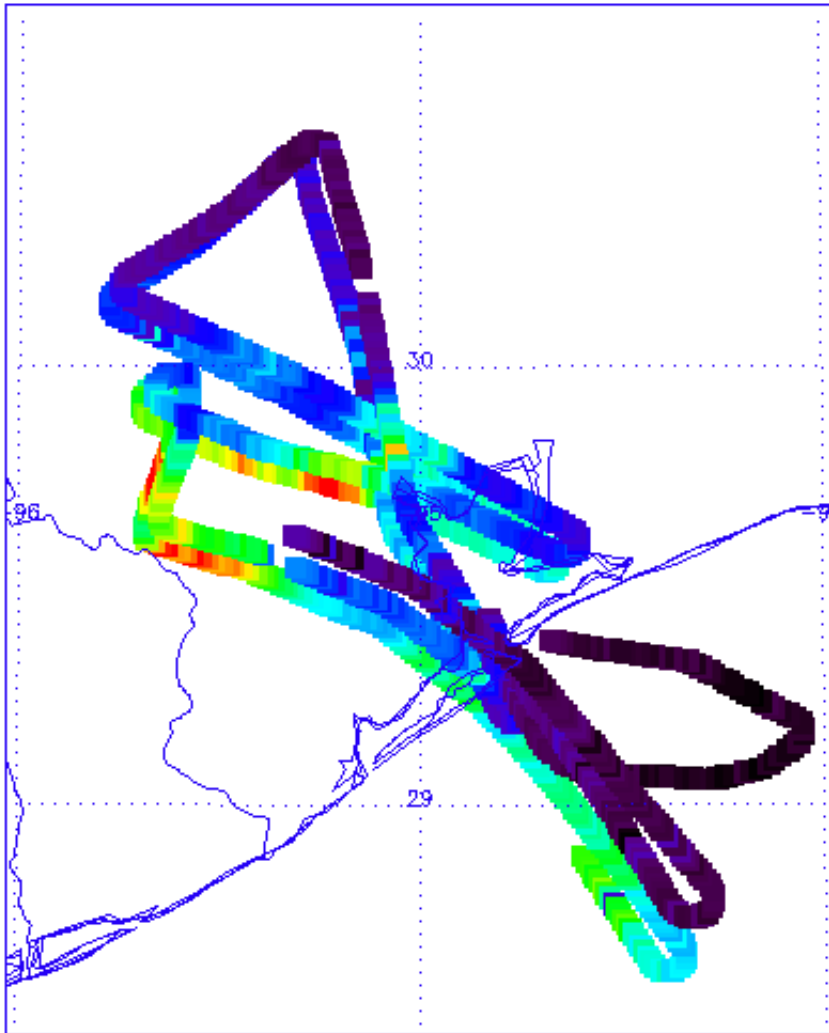
Enhanced values of HCHO were observed near the Channel View site throughout the day and generally west of the city on the Manvel Croix track particularly in the afternoon. Some enhancement north to Conroe was also observed. O₃ appears to be less variable than previous flights.

NO₂ Spatial Distribution

Morning

Afternoon

Peak [red] = 2.0 e16 molec./cm²
Second pass offset to show track values



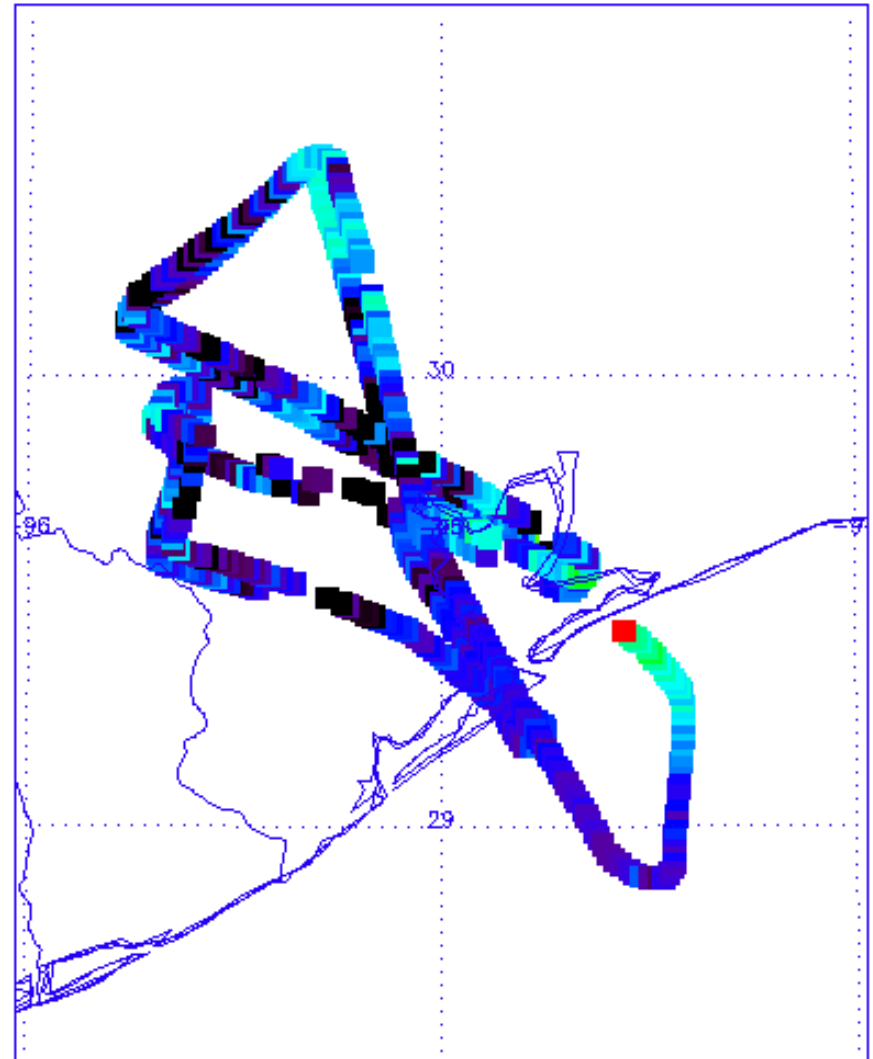
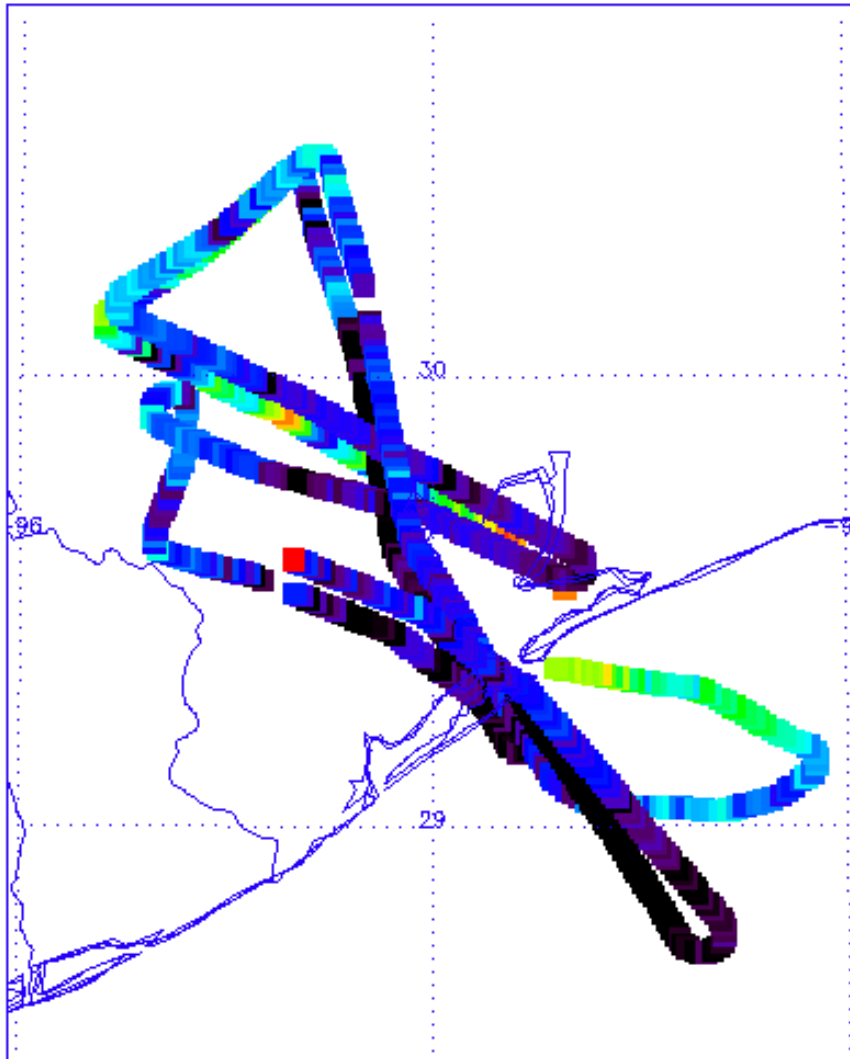
O₃ Spatial Distribution

Morning

Afternoon

Peak [red] = 20 DU

Second pass offset to show track values



HCHO Spatial Distribution

Morning

Afternoon

Peak [red] = 4×10^{16} molec./cm²

Second pass offset to show track values

