

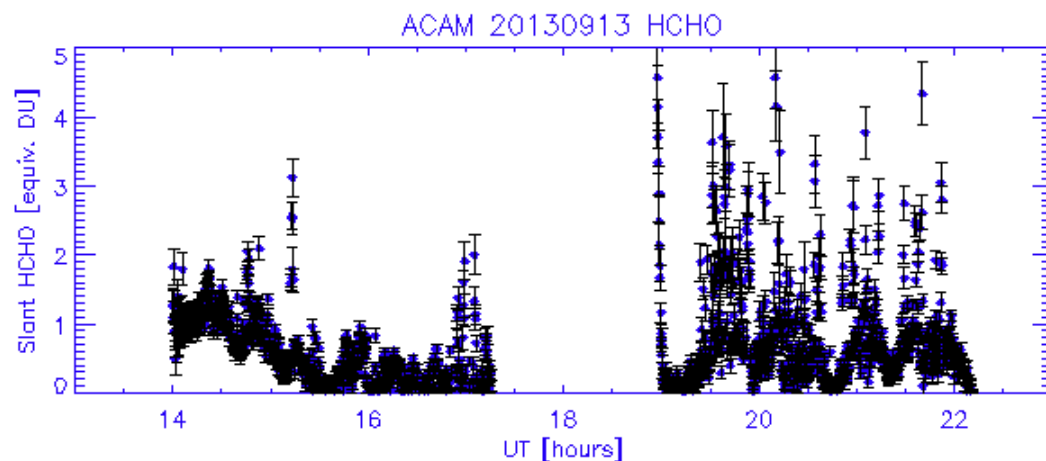
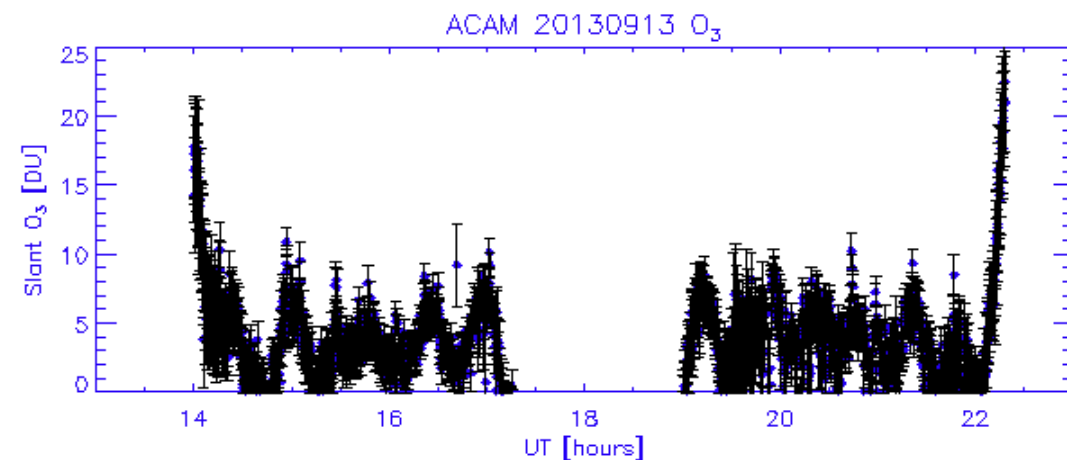
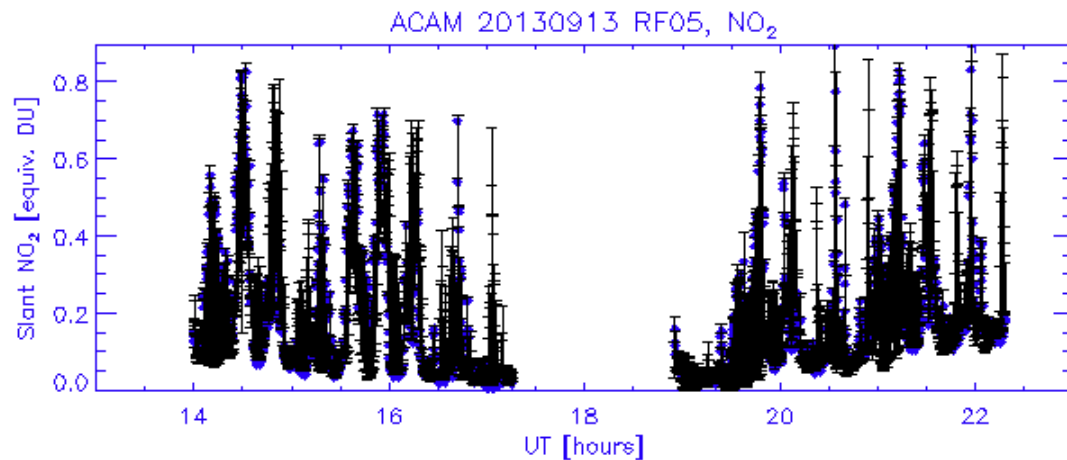


ACAM Flight Report

2013-09-13

Operations Summary RF05

The ACAM instrument operated normally during the fifth research 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. 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 with peak values occurring in the afternoon.

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. O₃ appears to be less variable than previous flights.

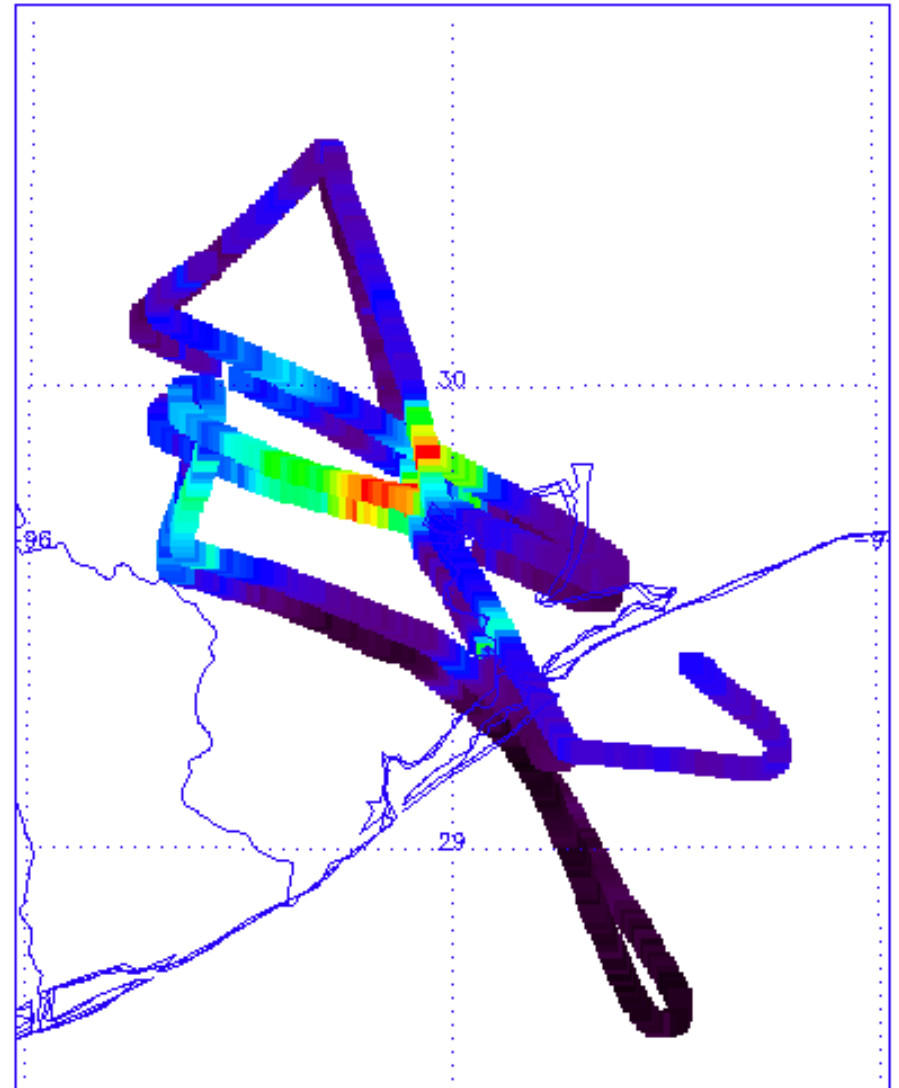
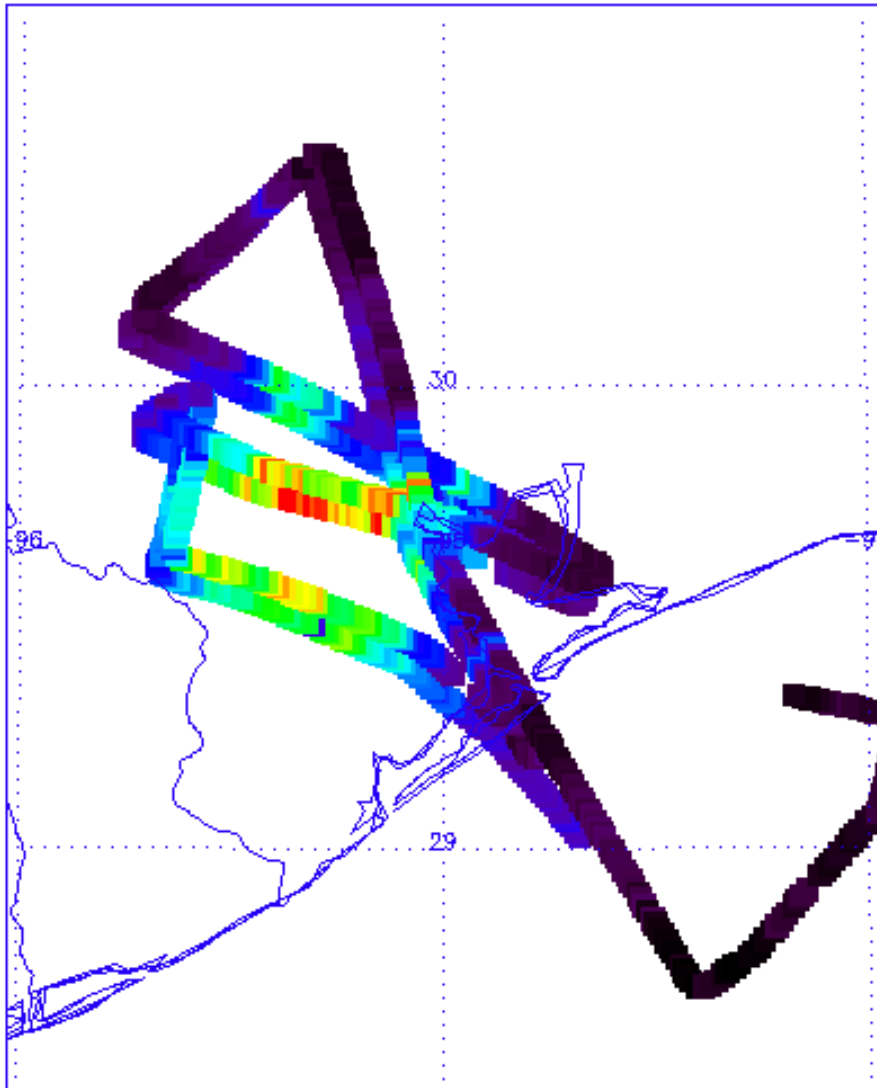
NO₂ Spatial Distribution

Morning

Afternoon

Peak [red] = 2.0 e16 molec./cm²

sr



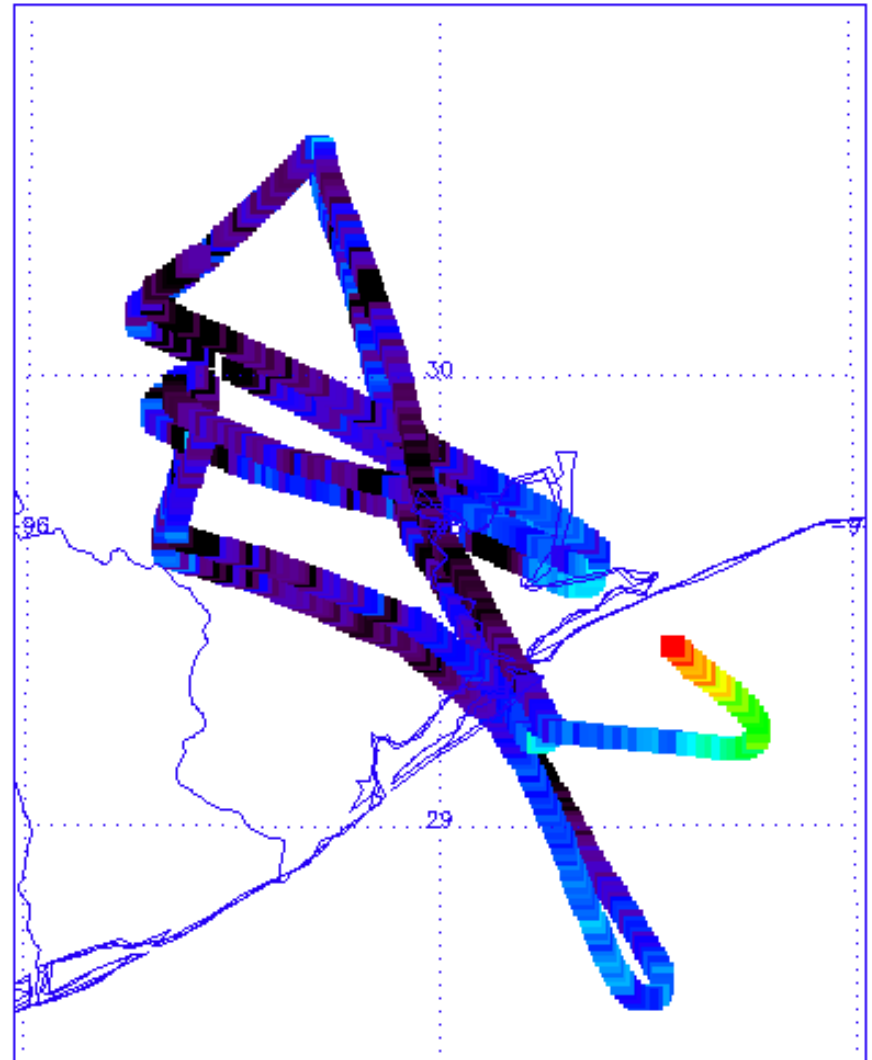
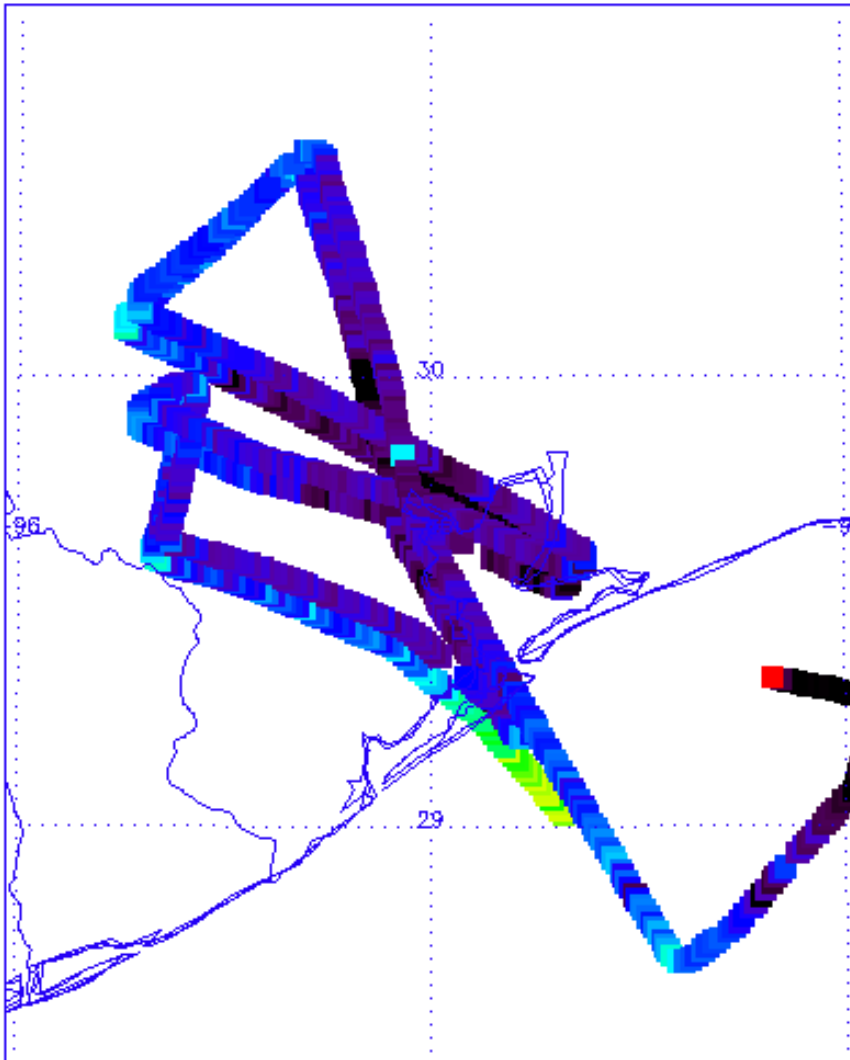
O₃ Spatial Distribution

Morning

Afternoon

Peak [red] = 35 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

