

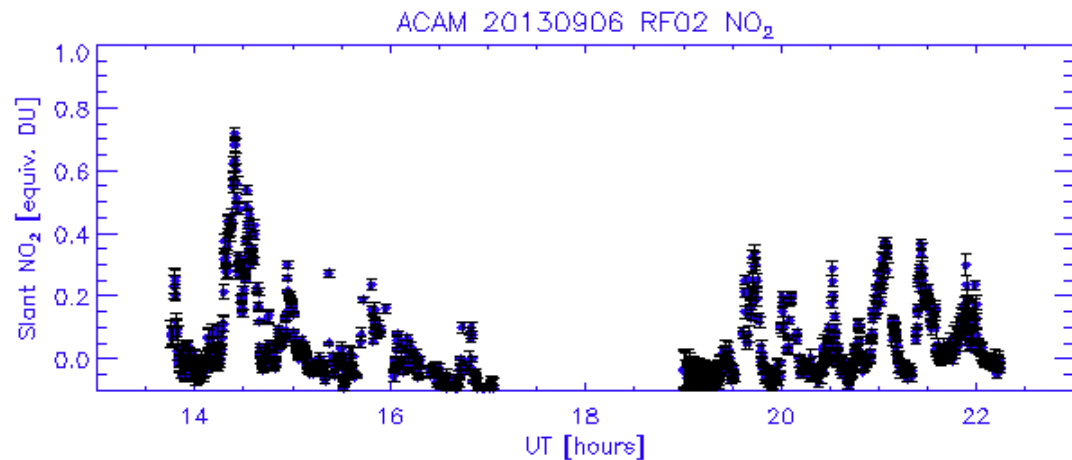


ACAM Flight Report

2013-09-06

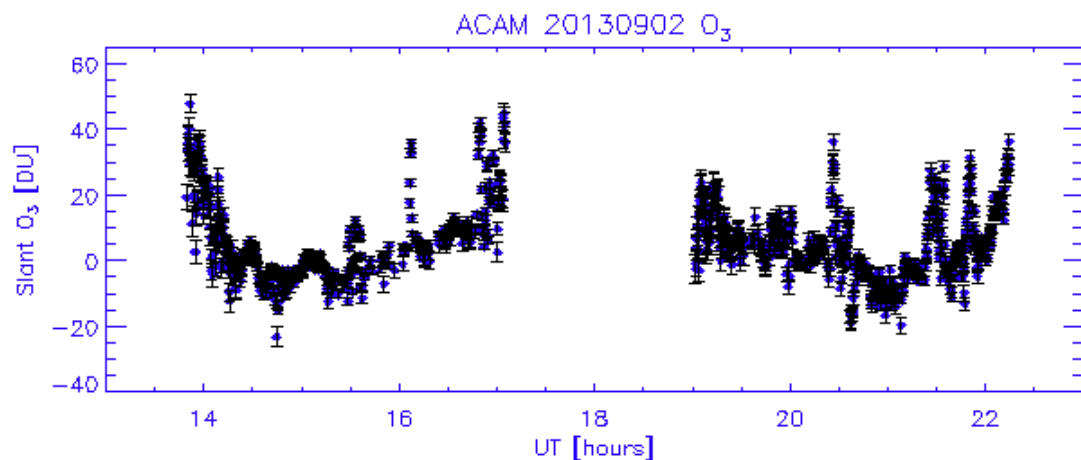
Operations Summary RF02

The ACAM instrument operated nominally during the second research flight. Cloud cover was more problematic today than on RF01 but 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].

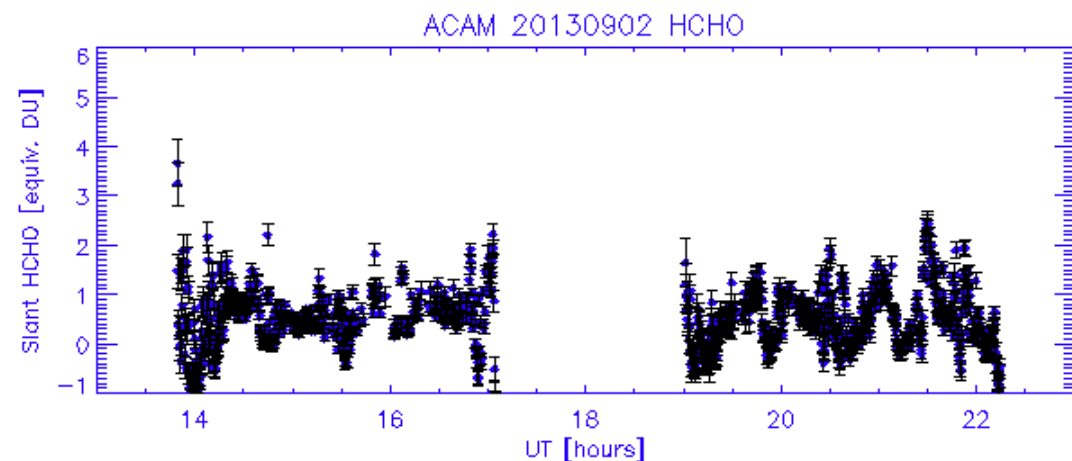


Trace gas slant column amounts

Enhanced values of NO₂ were seen in the West Houston area in the morning and were generally less than peak amounts seen on the 4th.



Enhanced values of O₃ were observed near the Channel View site throughout the day with strongest gradients during the late afternoon.



Some strong HCHO gradients were seen in the Channel View/ship channel area later in the afternoon.

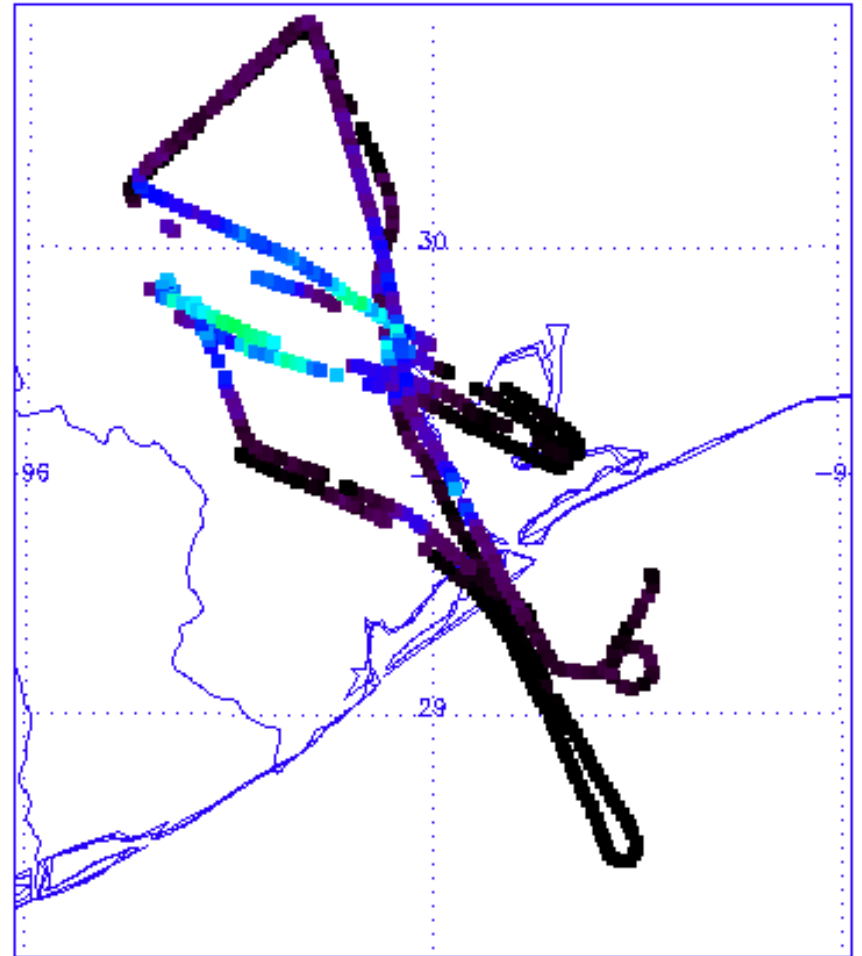
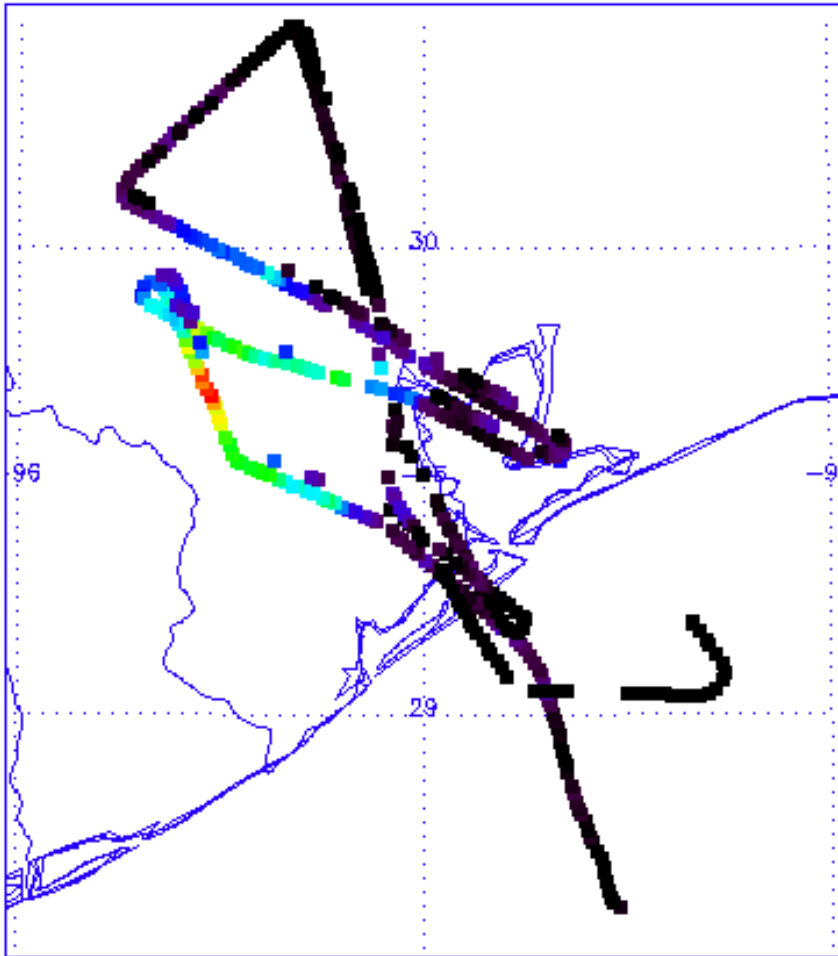
NO₂ Spatial Distribution

Morning

Peak [red] = 1.9 e16 molec./cm²

Afternoon

Second pass offset to show track values



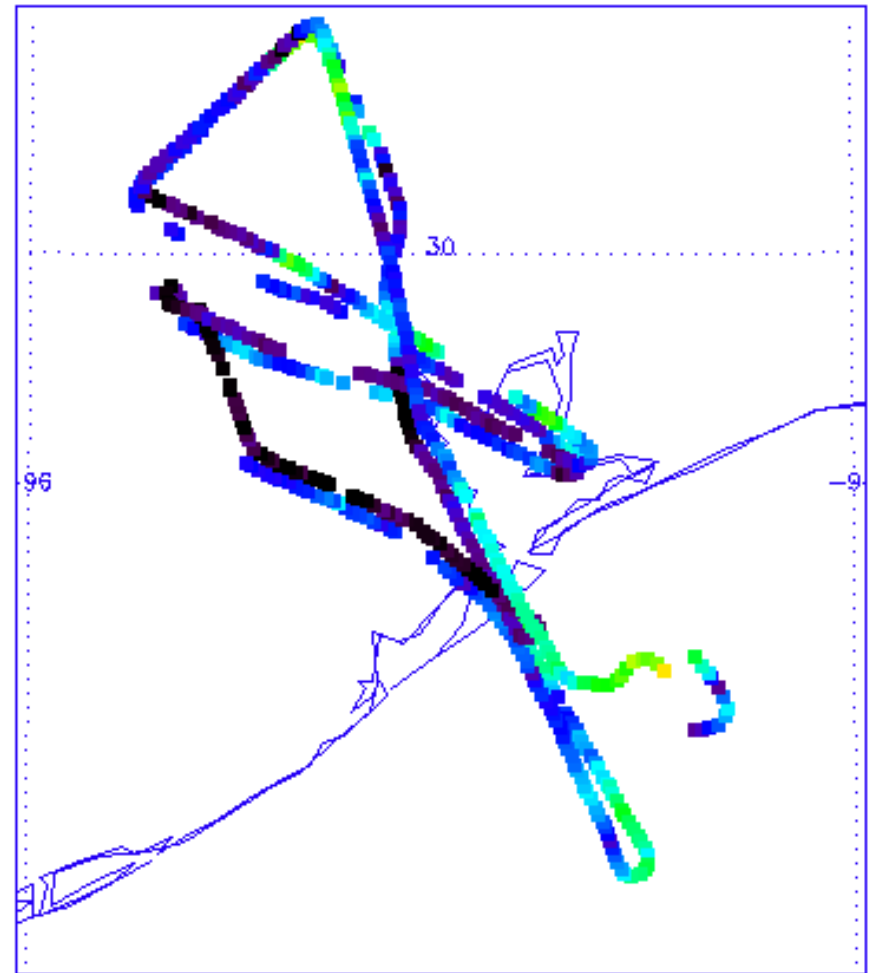
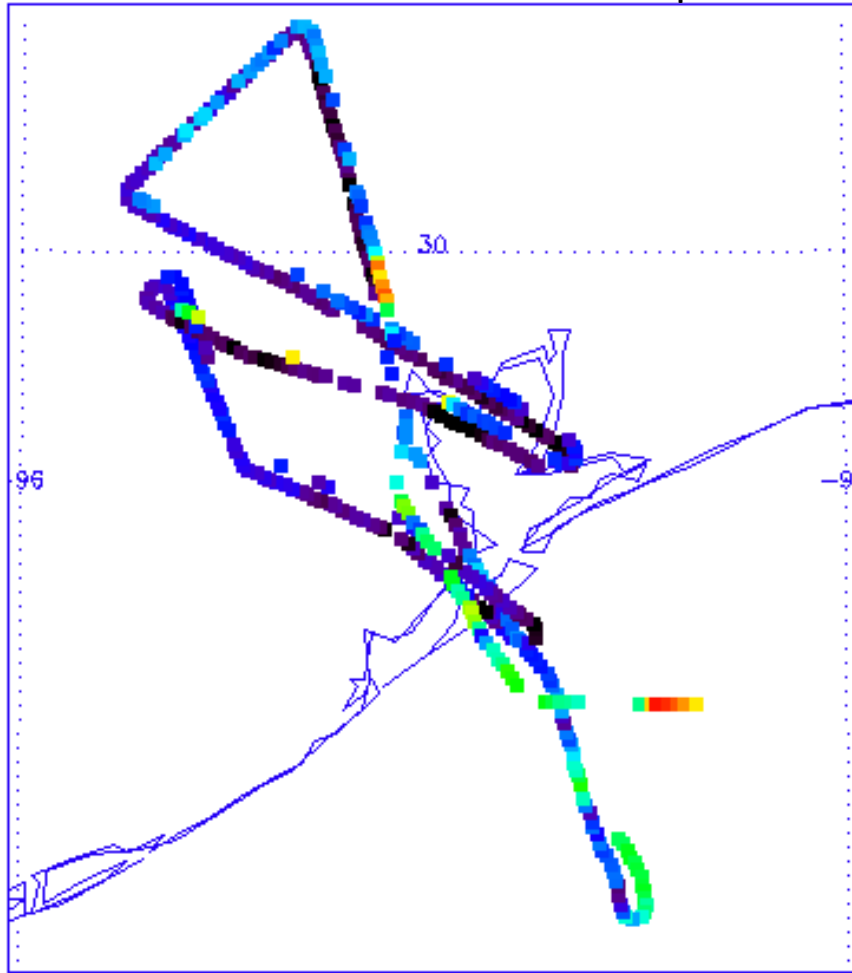
O₃ Spatial Distribution

Morning

Peak [red] = 35 DU

Second pass offset to show track values

Afternoon



HCHO Spatial Distribution

Morning

Afternoon

Peak [red] = 6.5×10^{16} molec./cm²

Second pass offset to show track values

