The ACAM instrument operated normally during the third research flight. Cloud cover prevented retrievals in approximately 25% of pixels when binned to 1 km but enhanced values of NO₂, CH₂O, and O₃ 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 NO$_2$ were seen in the West Houston, Channel view, and Manvel Croix areas in both the morning and afternoon legs.

Enhanced values of both O$_3$ and HCHO were observed near the Channel View site throughout the day and generally west of the city on the Manvel Croix track.
NO$_2$ Spatial Distribution

Morning

Afternoon

Peak [red] = 2.4 e16 molec./cm$^2$

Second pass offset to show track values
O$_3$ Spatial Distribution

Morning

Afternoon

Peak [red] = 40 DU

Second pass offset to show track values
HCHO Spatial Distribution

Morning

Afternoon

Peak [red] = 5.5e16 molec./cm^2
Second pass offset to show track values