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 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 area in the morning and were generally less than peak amounts seen on the 4\textsuperscript{th}.

Enhanced values of O$_3$ 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.
NO$_2$ Spatial Distribution

Morning
Peak [red] = 1.9 e16 molec./cm$^2$

Afternoon

Second pass offset to show track values
$O_3$ Spatial Distribution

Morning
Peak [red] = 35 DU

Afternoon

Second pass offset to show track values
HCHO Spatial Distribution

Morning

Afternoon
Peak [red] = $6.5 \times 10^{16}$ molec./cm$^2$

Second pass offset to show track values