Flight Scientist Report
Saturday 02/29/2020 ACTIVATE RF12

Flight Type: Statistical Survey Flight – Clouds
Flight Route: ATLIC – OUTES – Northeastern point
Special Notes: This was forecasted as a clear day but became a nice low cloud day

King Air
- Delayed take off due instrument issues

Instruments:
Fine

Falcon
- The delayed take off of King Air affected coordination so fit in a delay loop during flight to let King Air catch up
- During that delay loop there was a slight miscommunication on plane about how to chase cloud tops leading to a wider loop before getting back on the right heading to the NEast
- Irregular shapes on 2DS, possibly snow; cold clouds

Instruments:
Clouds were too cold for cloud water
NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 12, 15:41 UTC Feb 29, 2020 (near middle of flight)

Visible Image

Infrared Image
Cloud Phase

Cloud Optical Depth
Liquid Water Path (gm-2)

Cloud Droplet Number Concentration (cm$^{-3}$)