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

o Delayed take off due instrument issues

Instruments:

Fine

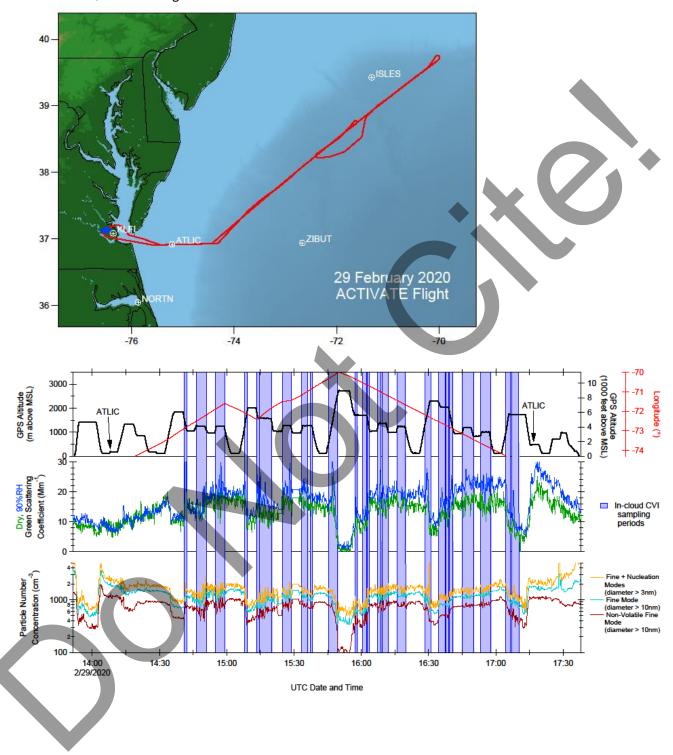
Falcon

- 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
- o Irregular shapes on 2DS, possibly snow; cold clouds

Instruments:

Clouds were too cold for cloud water

Rich Moore Quicklook Images:

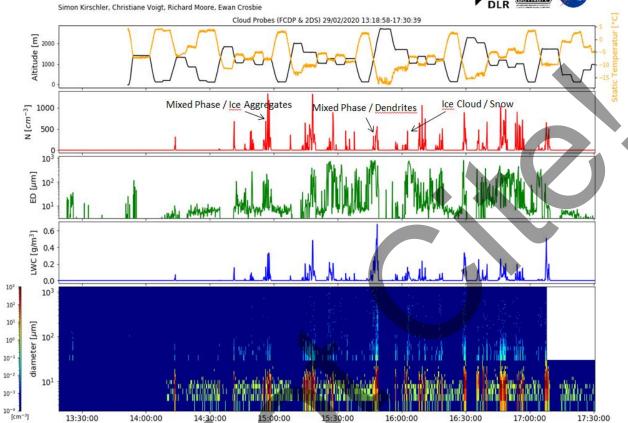


Quicklook ACTIVATE preliminary data, only for quicklook use

Cloud Probes (FCDP & 2DS)







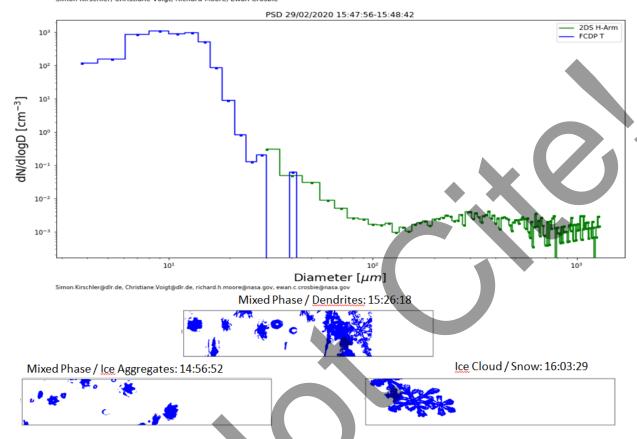




PSD ACTIVATE

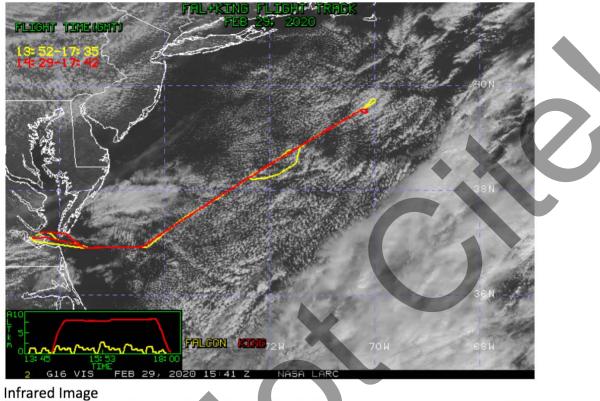
preliminary data, only for quicklook use Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



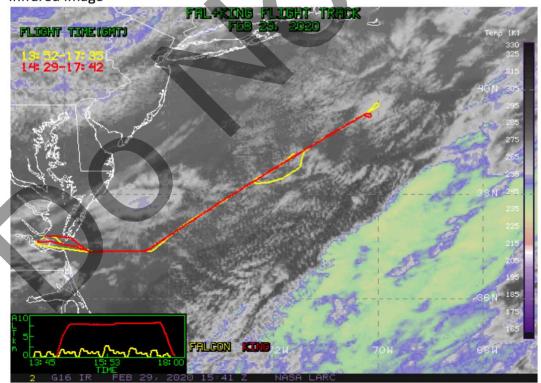


NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 12, 15:41 UTC Feb 29, 2020 (near middle of flight)

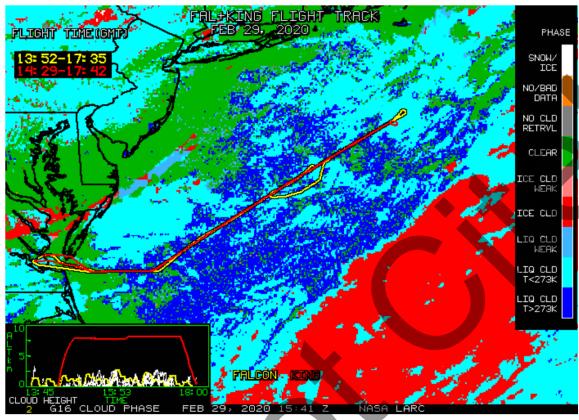
Visible Image



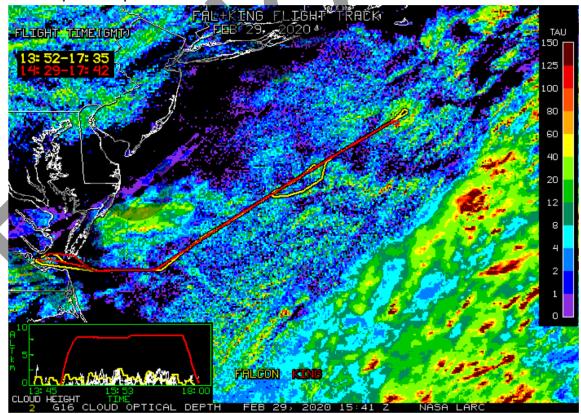




Cloud Phase



Cloud Optical Depth



Liquid Water Path (gm-2)

