

Flight Scientist Report
Saturday 06/18/2022 ACTIVATE RF179

Flight Type: Statistical Survey Flight

Flight Route:

Special Notes: Transit back from Bermuda to Virginia (Norfolk airport)

King Air

Pilot report ():

Flight scientist report (Seaman):

6/18/2022 Flight 1 of 1 Transit flight from Bermuda to Norfolk (ORF) to NASA Langley.

Ops Notes: Diverted ~10 Nm to west around severe weather before ZIBUT and returned to original flight path.

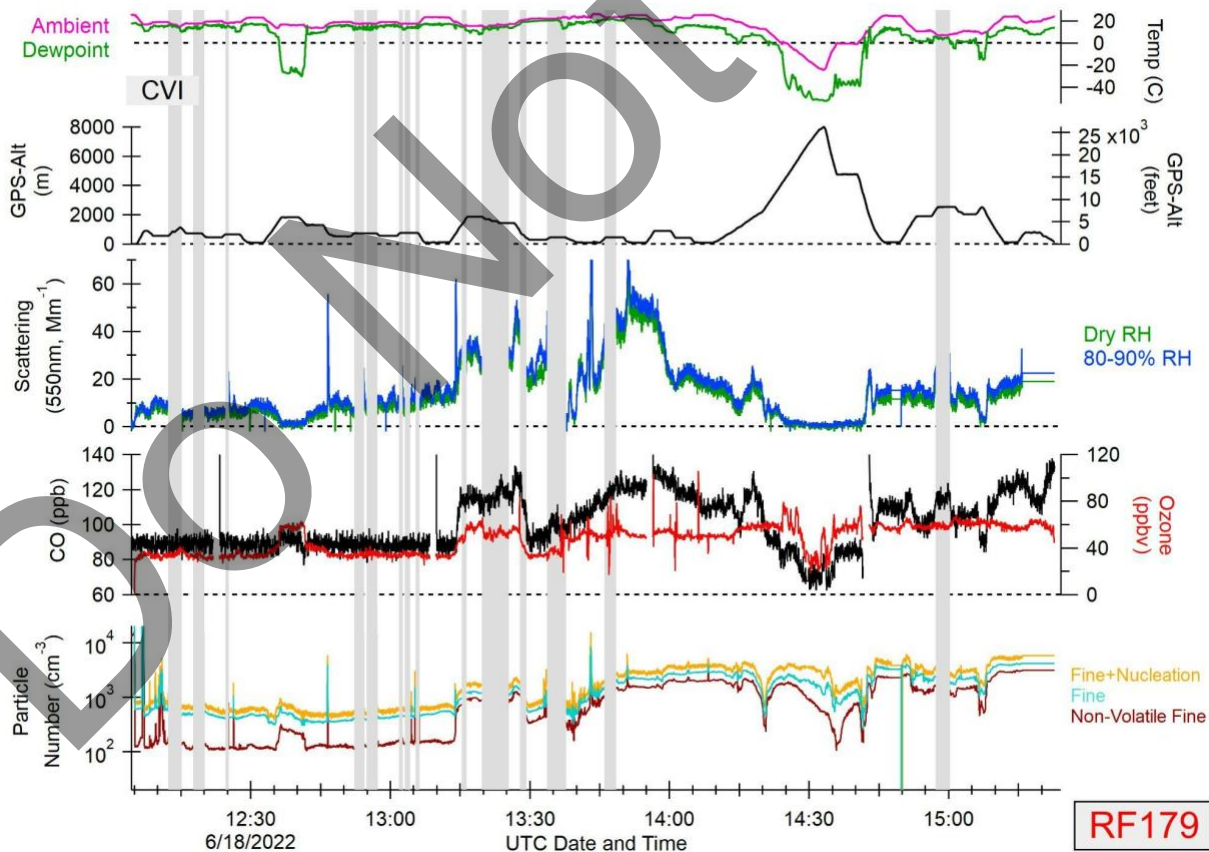
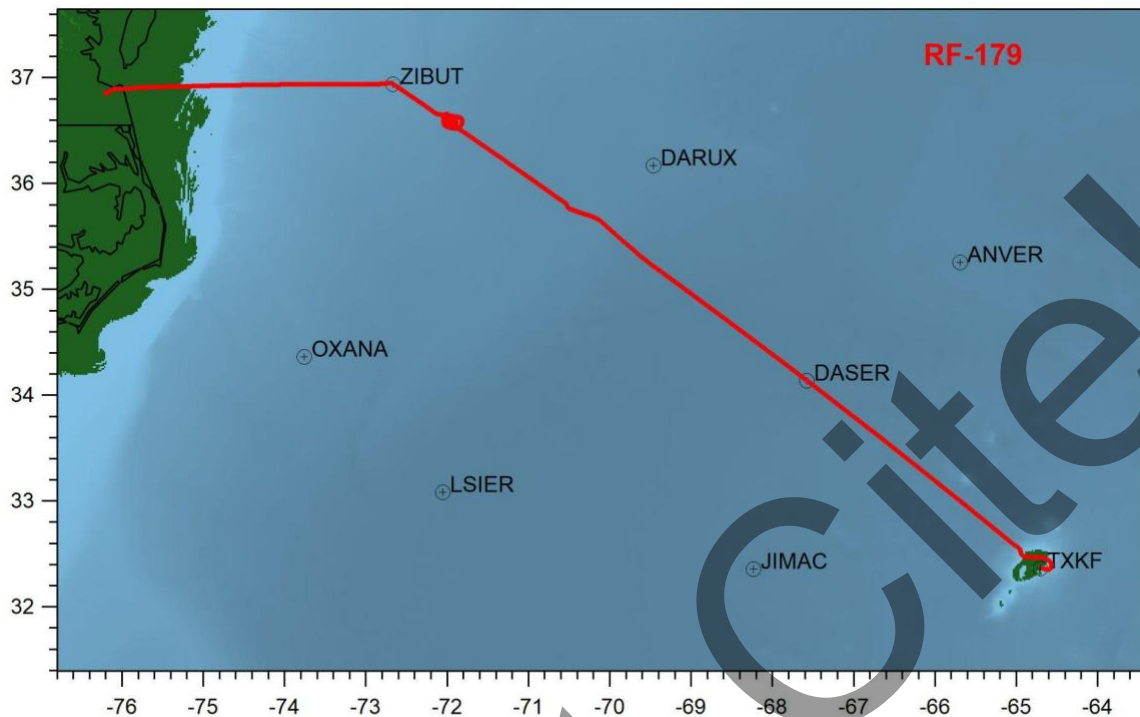
Instrument notes: Nominal. HSRL2 PXI chassis/server failed to boot, restart fixed issue. HSRL2 boresight filter position error reduced boresight quality during climb but a power cycle of the boresight filter corrected the issue. RSP usb port experienced overvoltage when connecting usb drive for data transfer at end of flight; restart fixed issue.

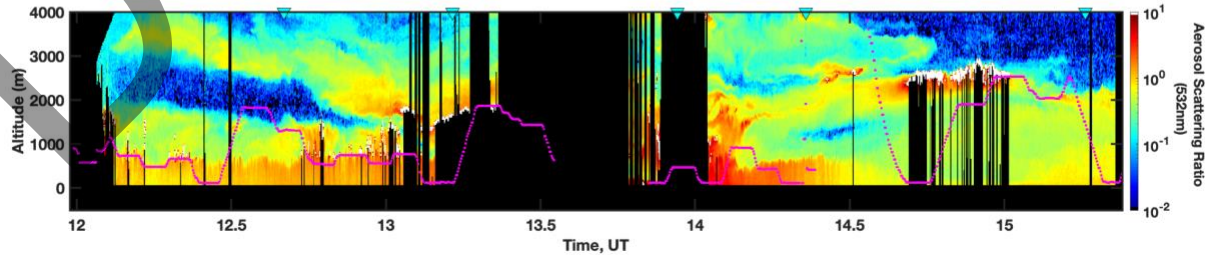
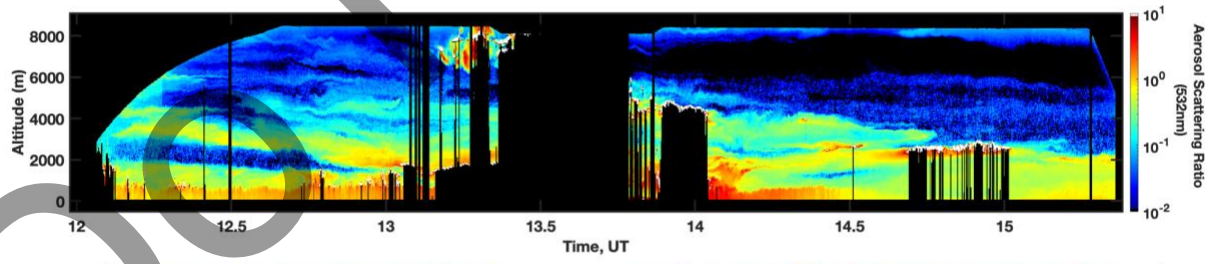
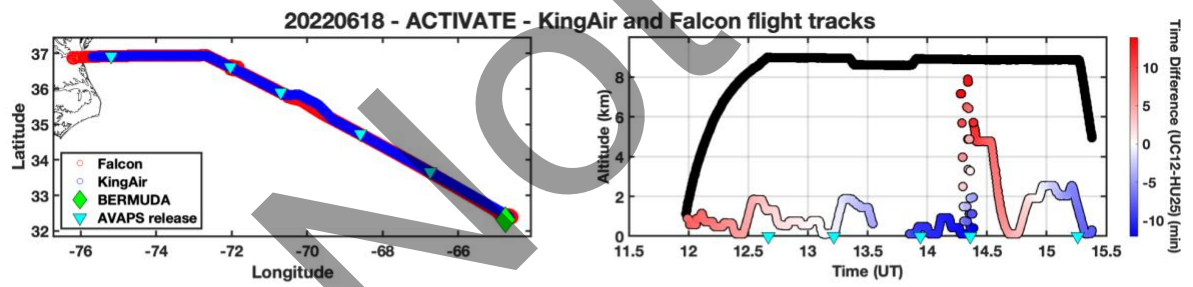
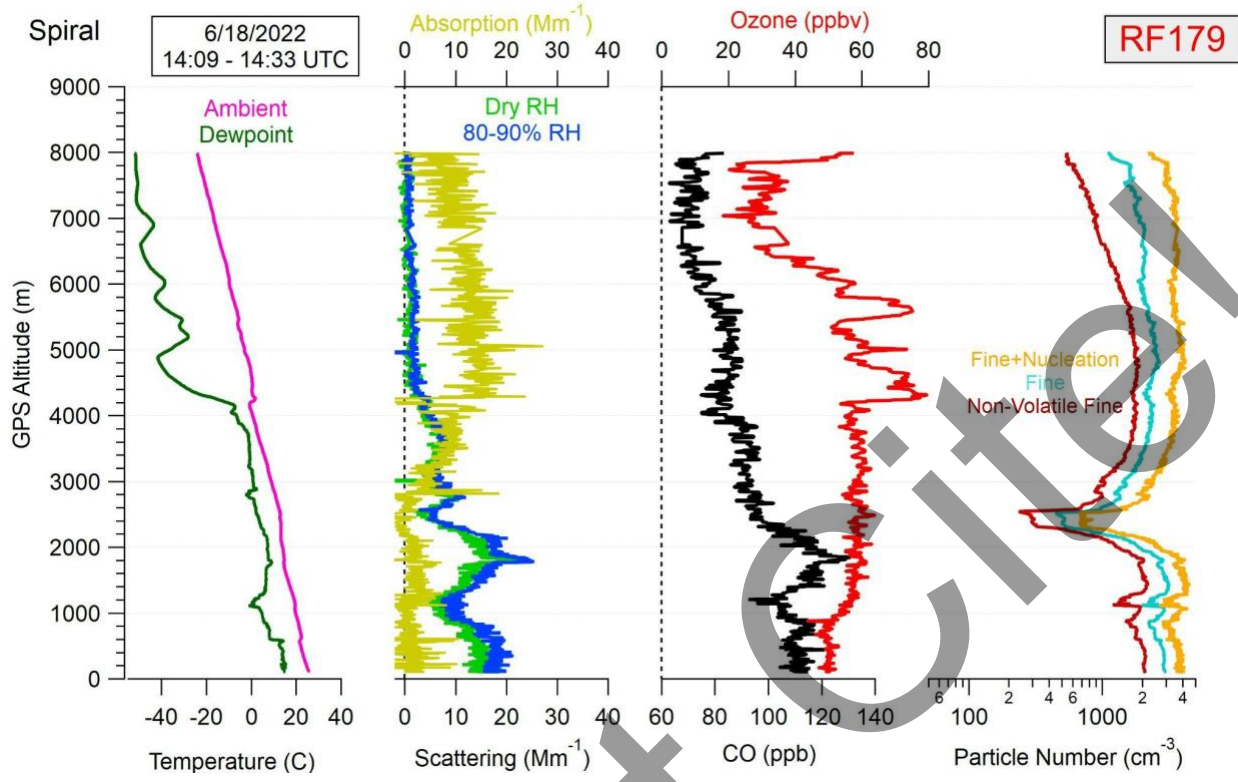
Sonde drops: 5 sondes were dropped roughly equally spaced over the flight route, with one dropped over the center of the spiral maneuver performed by the Falcon.

Falcon

Pilot report ():

Flight scientist report ():

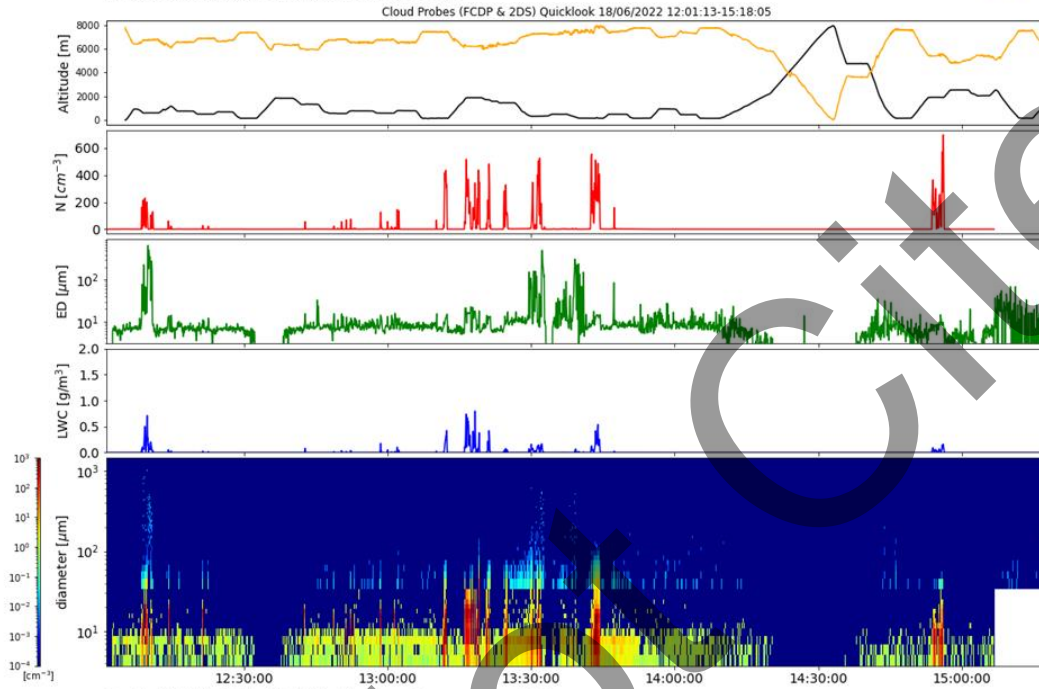




Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

preliminary data, only for quicklook use

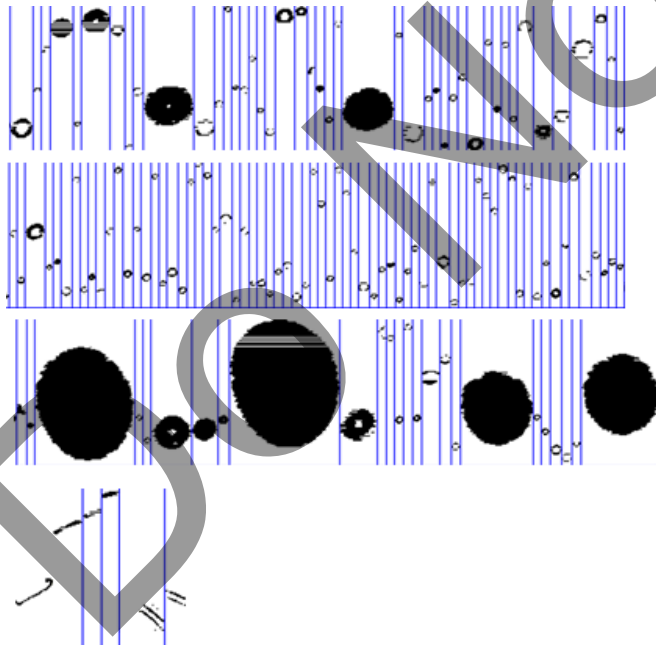
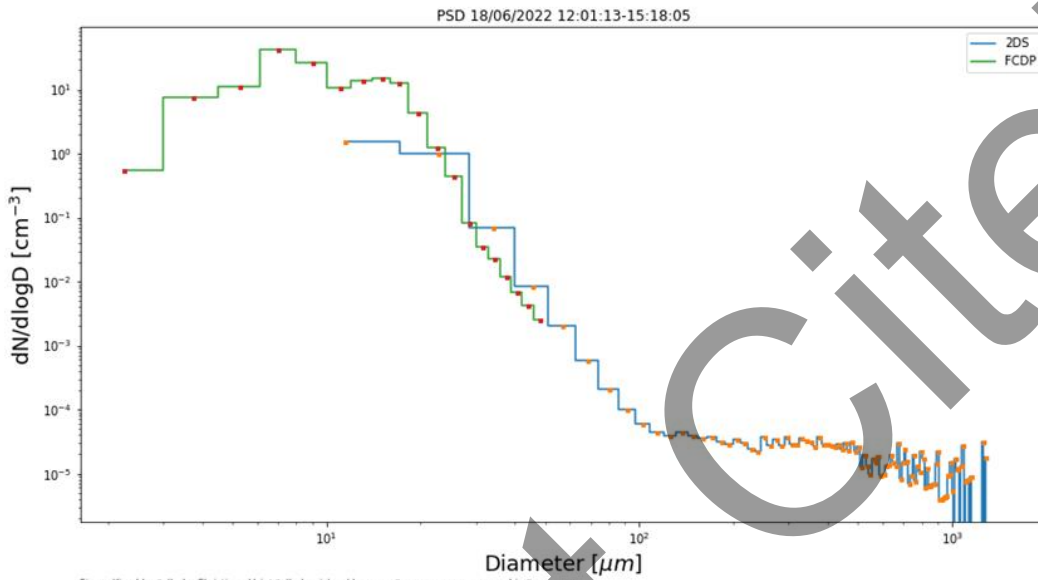
Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



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PSD ACTIVATE

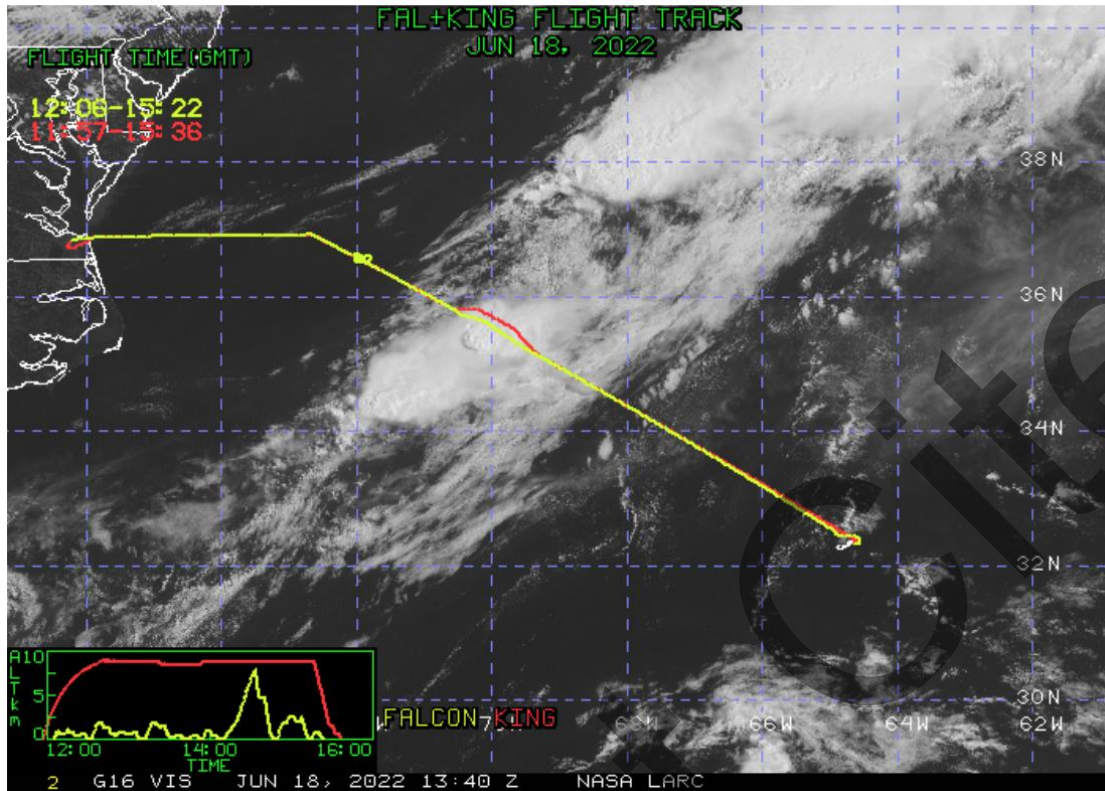
preliminary data, only for quicklook use
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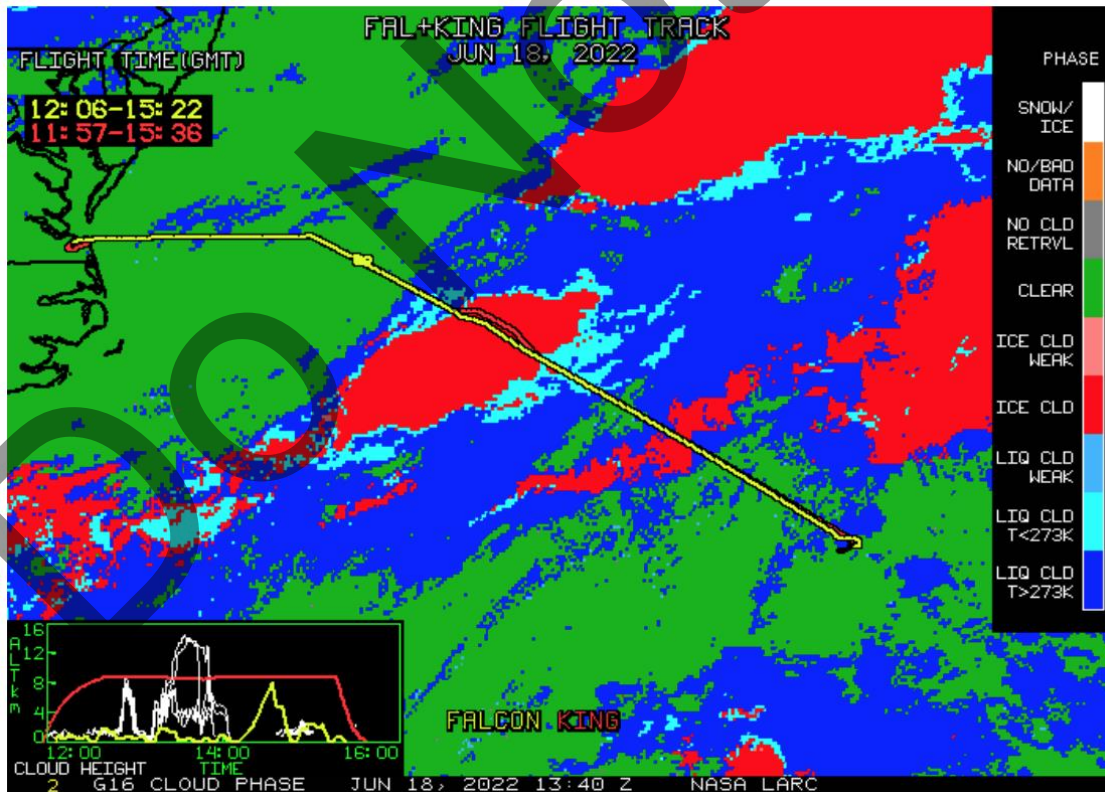
Only pure liquid clouds with Precip and Bioaerosols.

NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 179, 13:40 UTC Jun 18, 2022

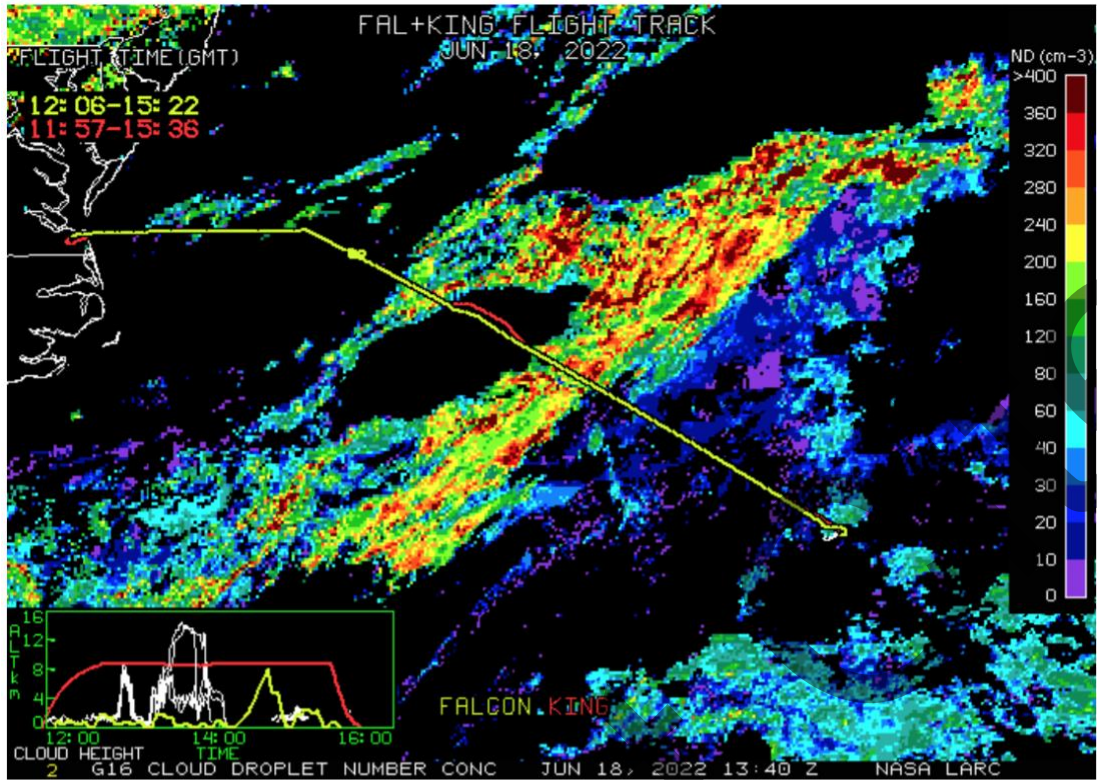
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

