

Flight Scientist Report
Friday 06/10/2022 ACTIVATE RF170

Flight Type: Statistical Survey Flight
Flight Route:

Special Notes: African dust in area; ASTER underflight at end of flight in good conditions (no cirrus, single level broken clouds)

King Air

Pilot report (Slover):

ACTIVATE statistical survey round robin flight from Bermuda with an ASTER satellite overpass at 1458Z. Late takeoff due to initial research power up issues with load shed. Research power nominal in flight.

Flight scientist report (Seaman):

6/10/2022 Flight 1 of 2

Flight path:

TXKF

32.60N/64.70W

30.00N65.45W

DUPOX

30.00N65.45W

32.60N/64.70W

TXKF

Ops Notes:

Multiple load sheds on startup delayed takeoff. Some load sheds were long lasting and required cycling research power. Some were quick that only resulted in a short loss of power "blip."

Instrument notes:

After several load sheds, the PIXI /server would not successfully boot. After a full research power down, eventually everything booted up properly and then operated nominally for the flight.

Science notes:

Air generally clear above 8000 ft.

Sonde drops:

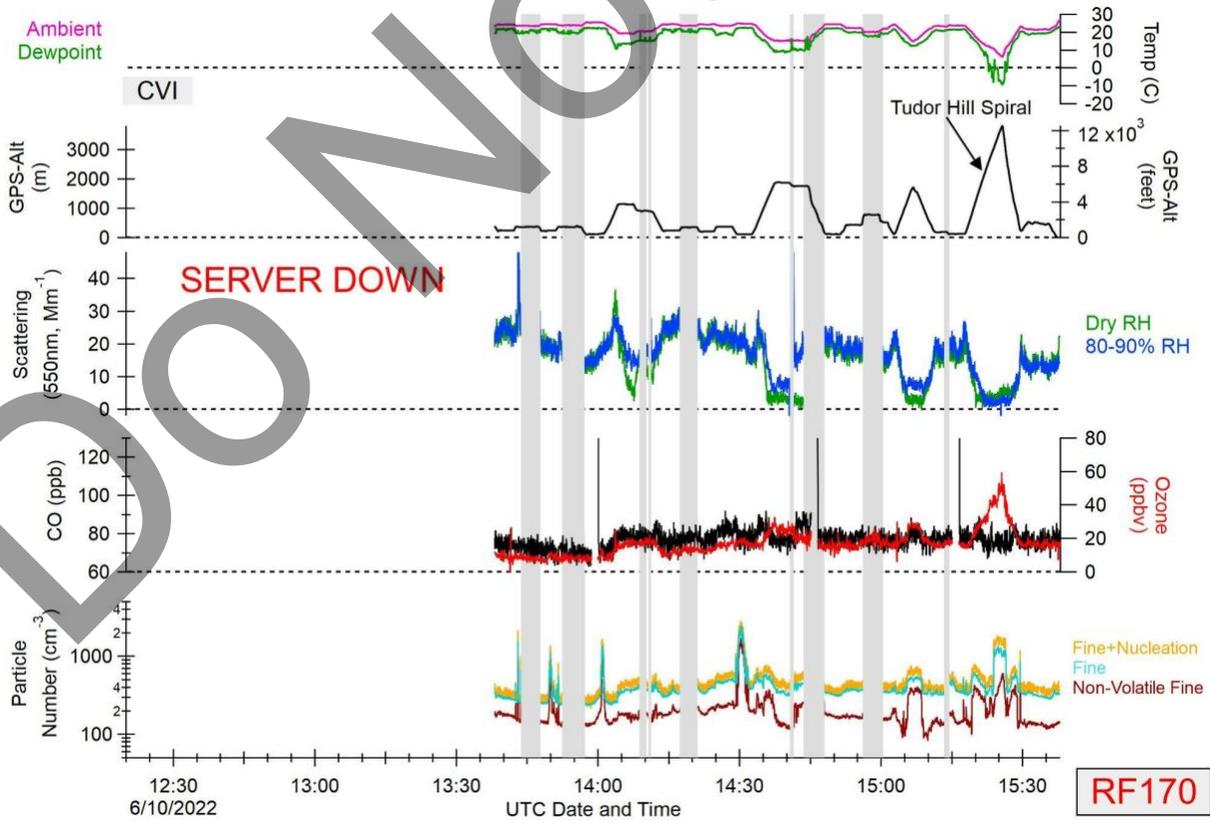
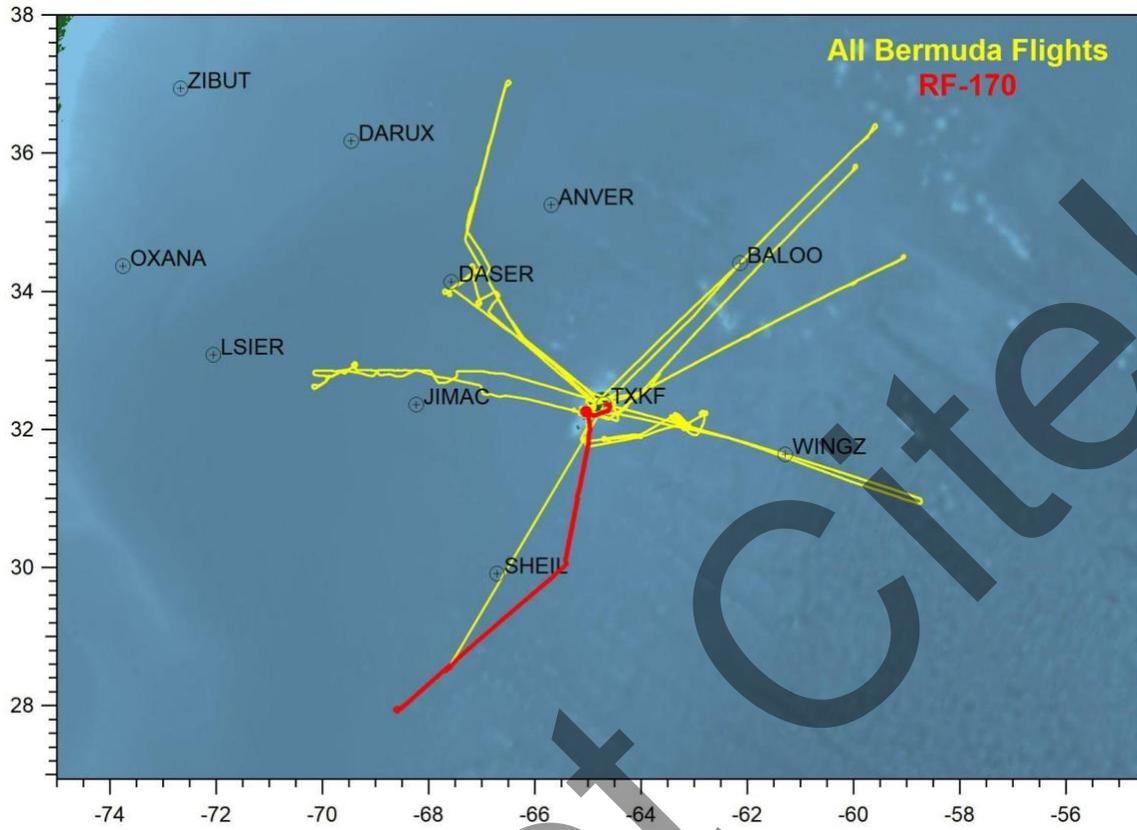
- 1) 30.00N65.45W
- 2) 28.64N/67.46W
- 3) DUPOX
- 4) 29.34N/66.48W
- 5) ASTER line
- 6) on ASTER pass
- 7) coast

Falcon

Pilot report (Baxley):

HU-25 ACTIVATE flight with UC-12; Baxley/Elder, Crosbie/Winstead Mission briefed to south, flown as briefed, deviated as directed by the research team. No anomalies or issues noted.

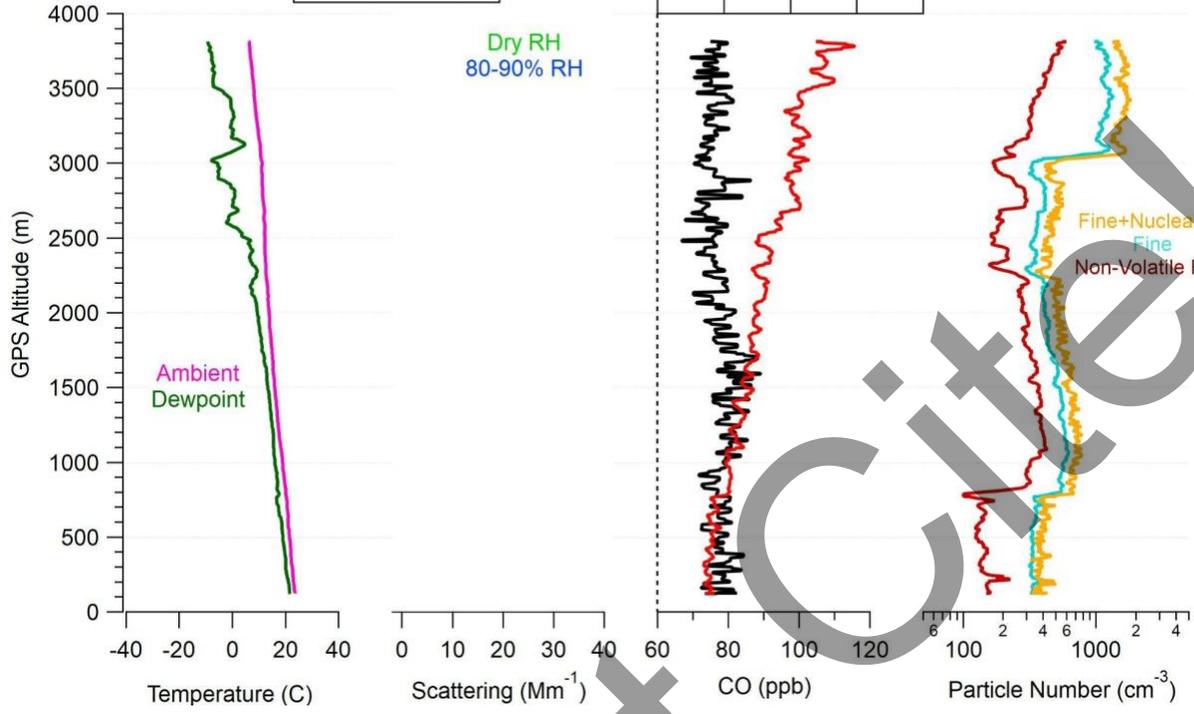
Flight scientist report ():



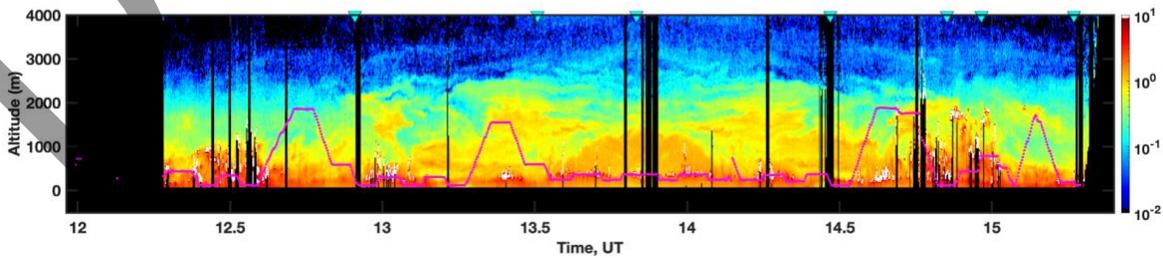
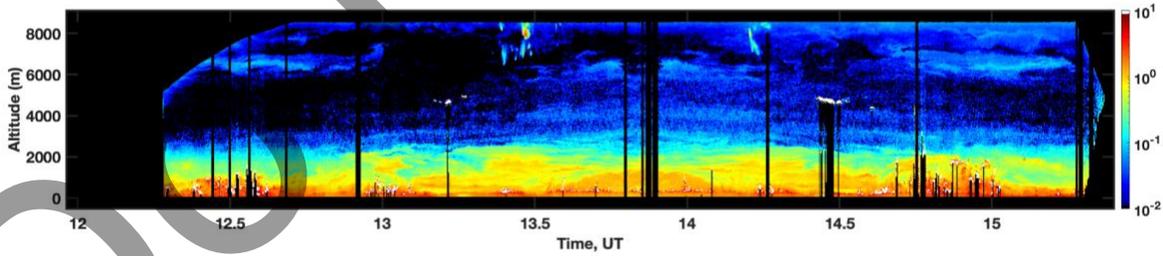
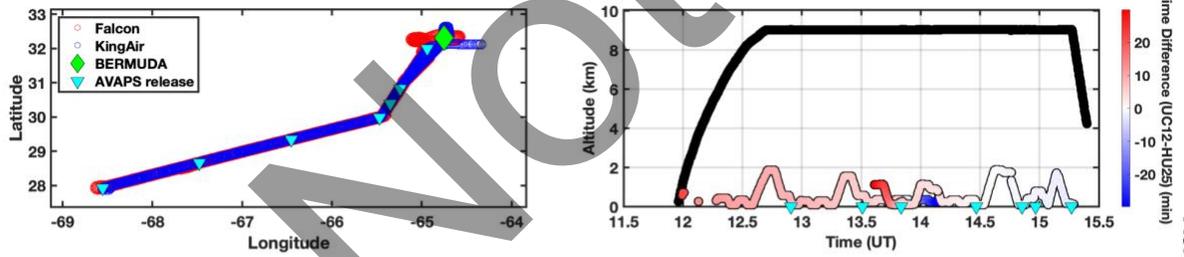
Tudor Hill Spiral

6/10/2022
15:17 - 15:25 UTC

RF170



20220610 - ACTIVATE - KingAir and Falcon flight tracks



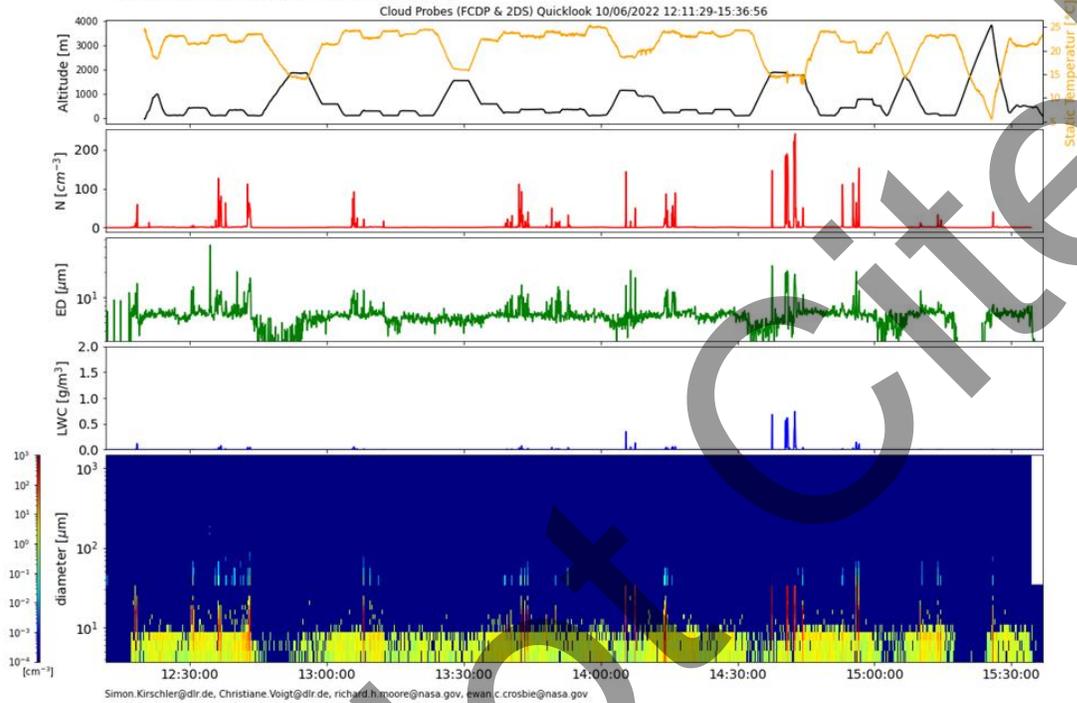
Aerosol Scattering Ratio (532nm)

Do Not Cite!

Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

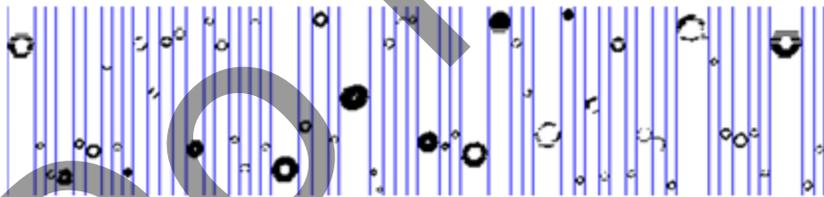
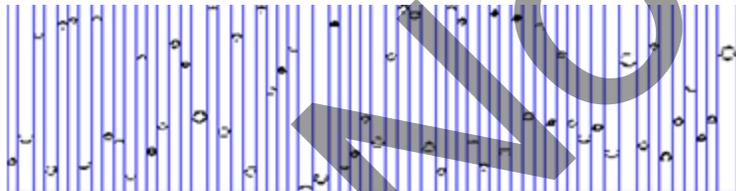
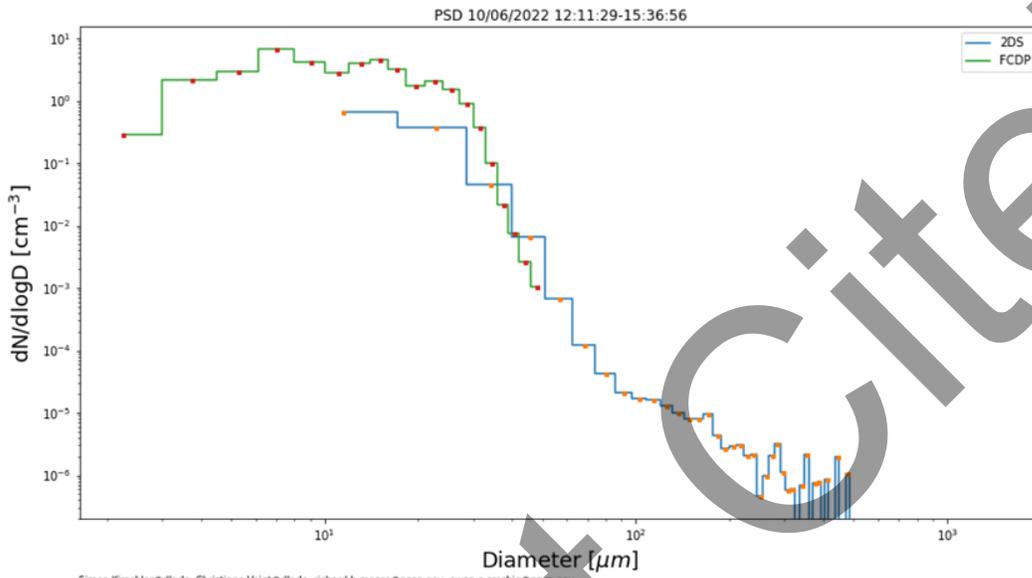
preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



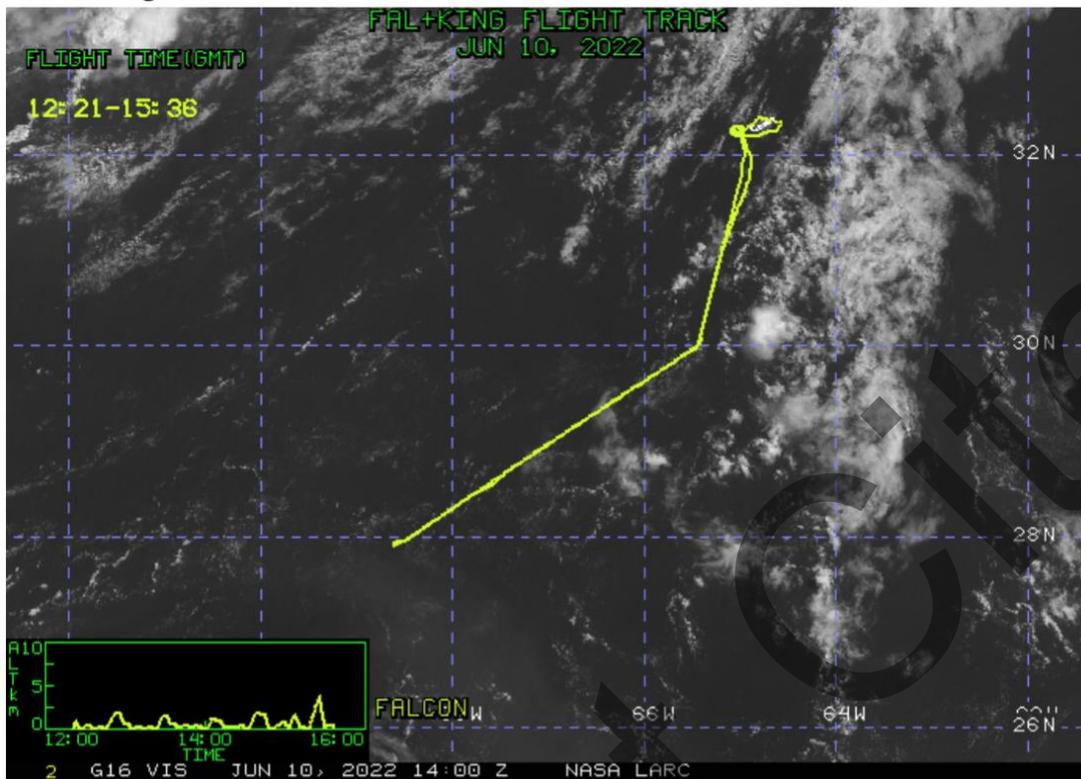
PSD ACTIVATE

preliminary data, only for quicklook use
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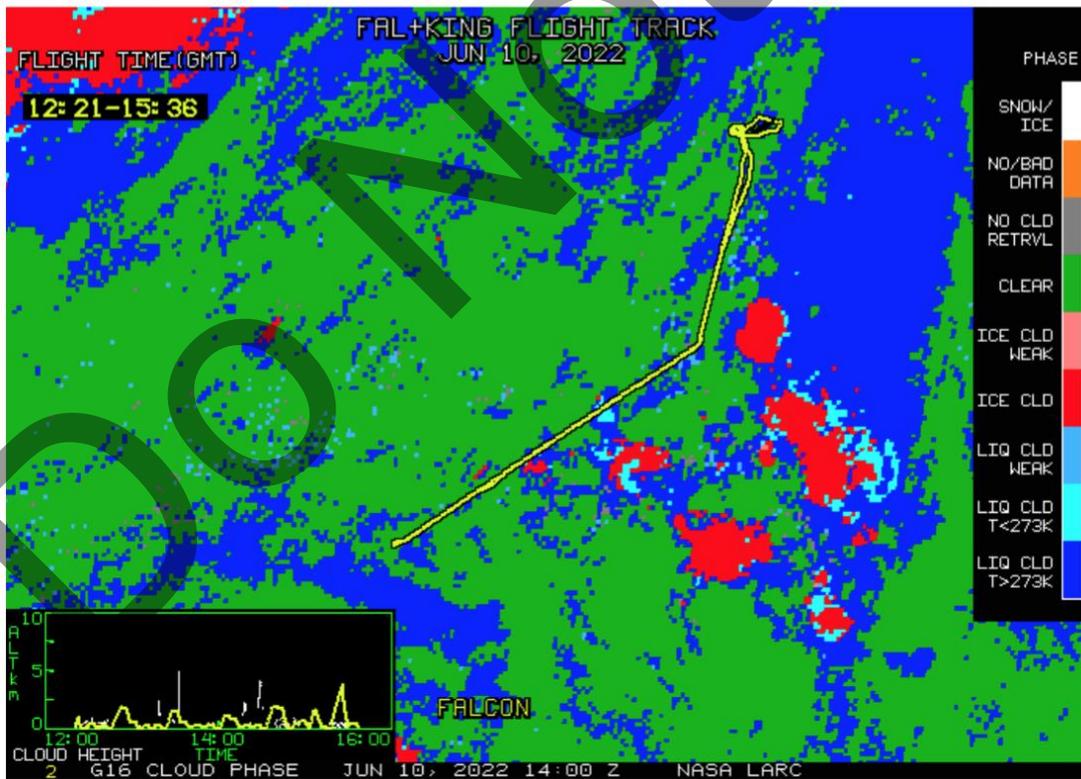


Only pure liquid clouds with Drizzle.

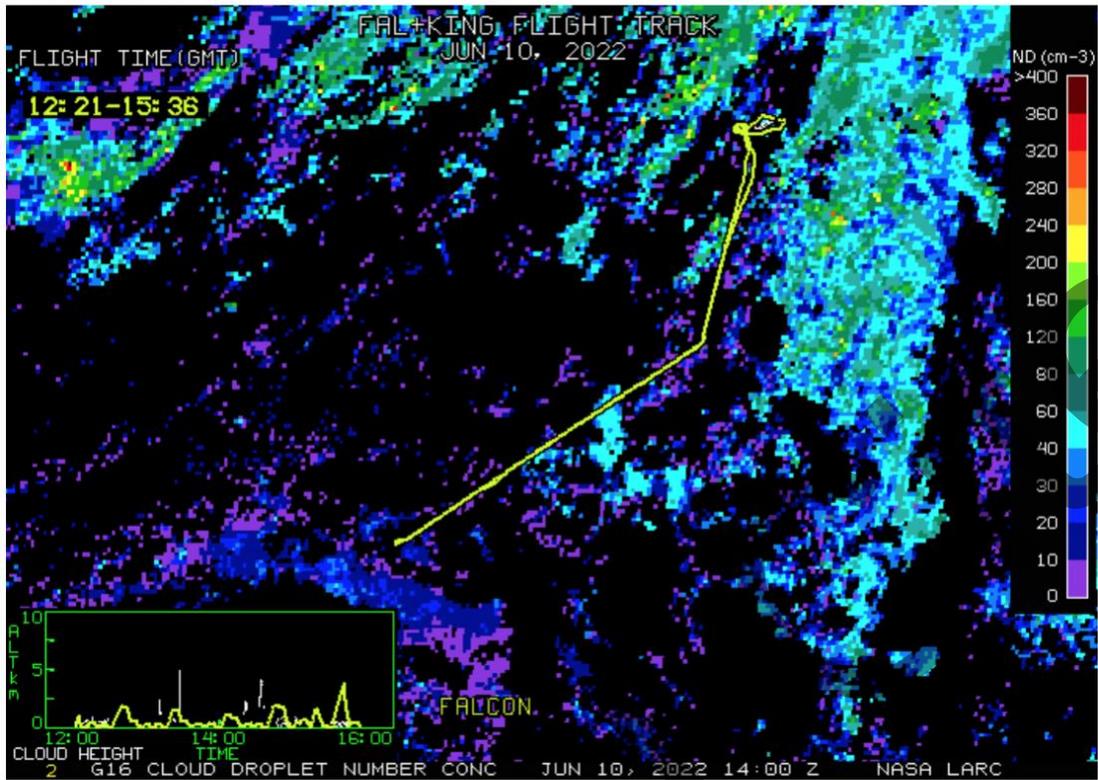
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

