

Flight Scientist Report
Thursday 06/08/2022 ACTIVATE RF169

Flight Type: Statistical Survey Flight
Flight Route: TXKF - LITTL - 3222.19N/06713.58W - 3401.05N/06741.28W -
3600.26N/06815.44W - 3215.00N/06500.00W - TXKF
Special Notes:

King Air

Pilot report (Wusk):

Second flight of a two flight day with the HU25. Flown as planned. Crew Sandeen, Wusk, Harper.

Flight scientist report (Harper):

Cloud Conditions: sparse cirrus above on initial outbound leg. No visible cirrus above for remainder of outbound leg.

Subvisible and visible cirrus on return leg near Waypoint YEPSY.

Aircraft coordination: less the 5min ahead of HU25 until 17:41utc. Within 2 min afterwards until turnaround point.

HU25 ahead by 2min after turnaround and slowly increasing distance as we return. HU25 ~9min ahead by waypoint YEPSY.

Sonde 1: 18:16:35utc - Halfway point between Bermuda and turnaround point for outbound leg

Sonde 2: 18:56:30utc - At turnaround point for outbound leg

Sonde 3: 19:14:00utc - after turnaround - midpoint between turnaround and Sonde 1 location

Sonde 4: 19:58:10utc - midpoint between Sonde 1 location and Bermuda.

Sonde 5: 20:33:00utc - Shortly before final turnaround point.

Instrument issues: none

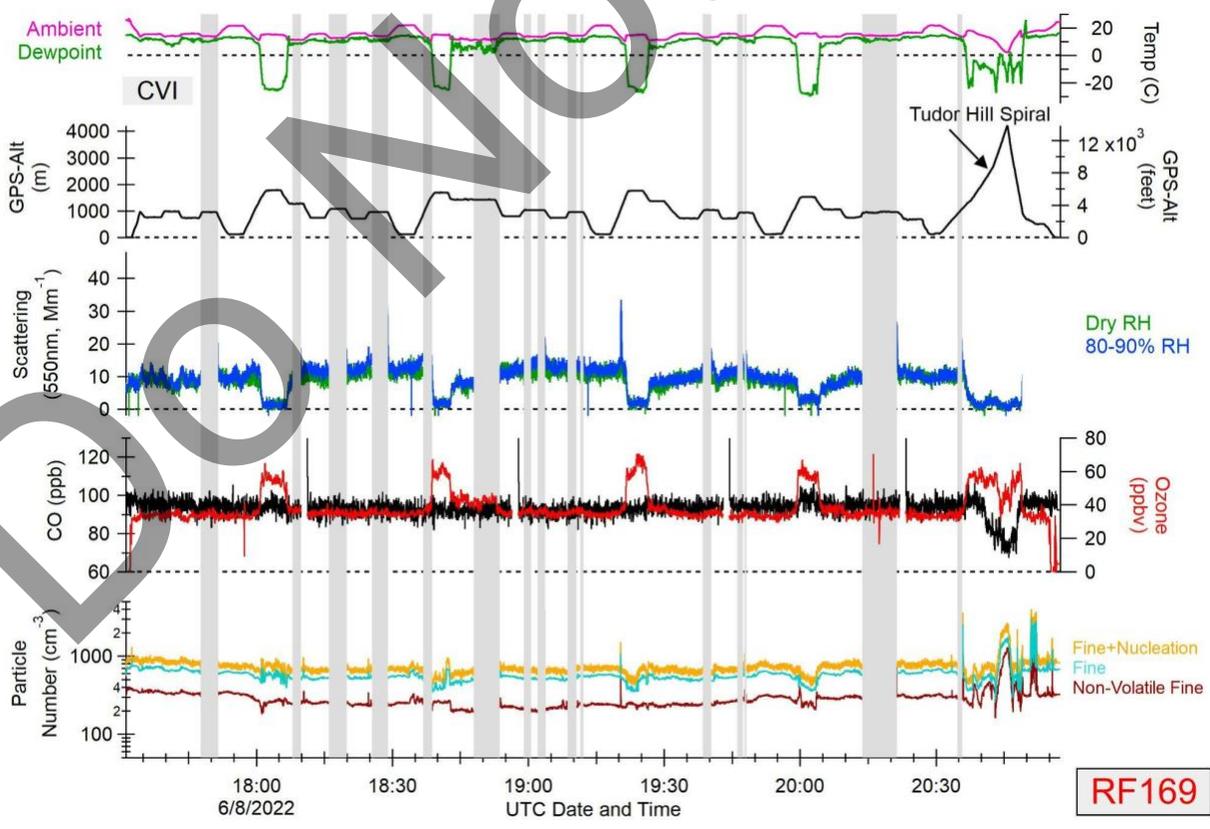
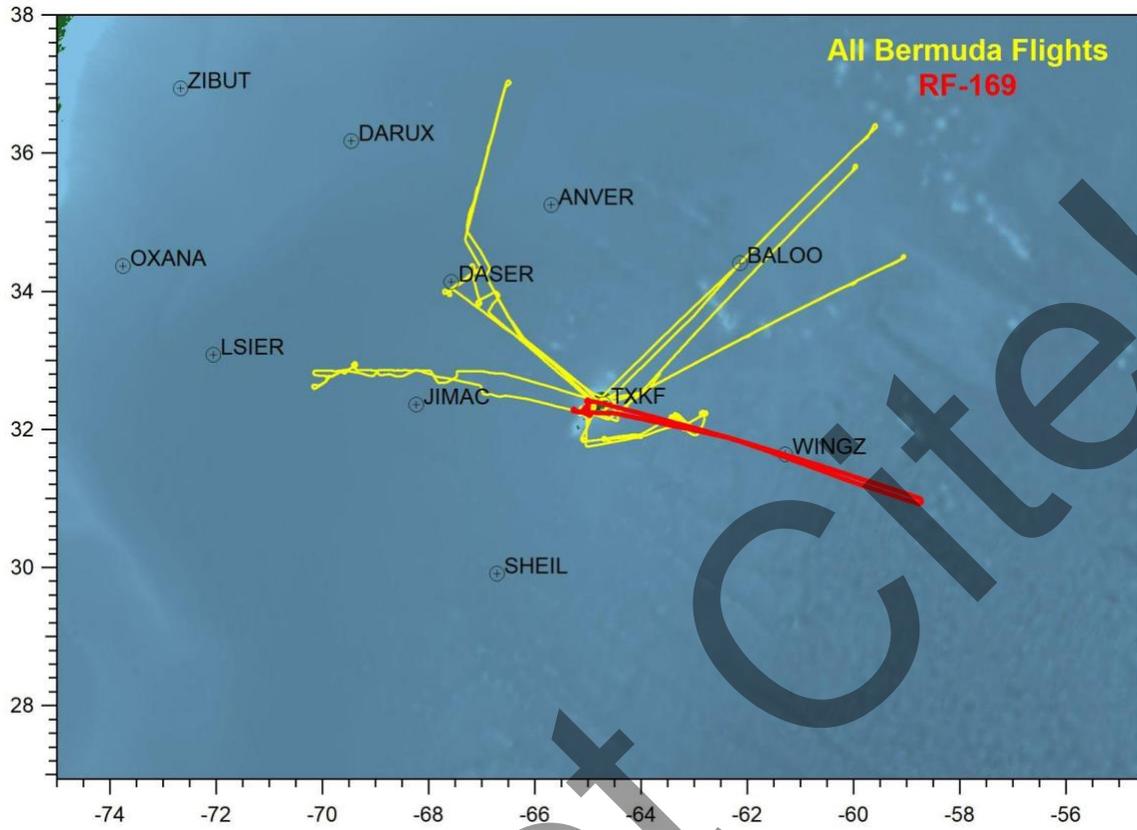
Falcon

Pilot report (Baxley):

ACTIVATE coordinated flight with HU-25 and UC-12; Thorson/Baxley, Crosbie/Winstead. TXKF - LITTL - 3222.19N/06713.58W - 3401.05N/06741.28W - 3600.26N/06815.44W - 3215.00N/06500.00W - TXKF. Mission flown as planned, weather as expected. Deviated from course at the direction of the research team, conducted spiral from surface to 13,000 MSL at Tudor Hill. No issues or anomalies.

Flight scientist report ():

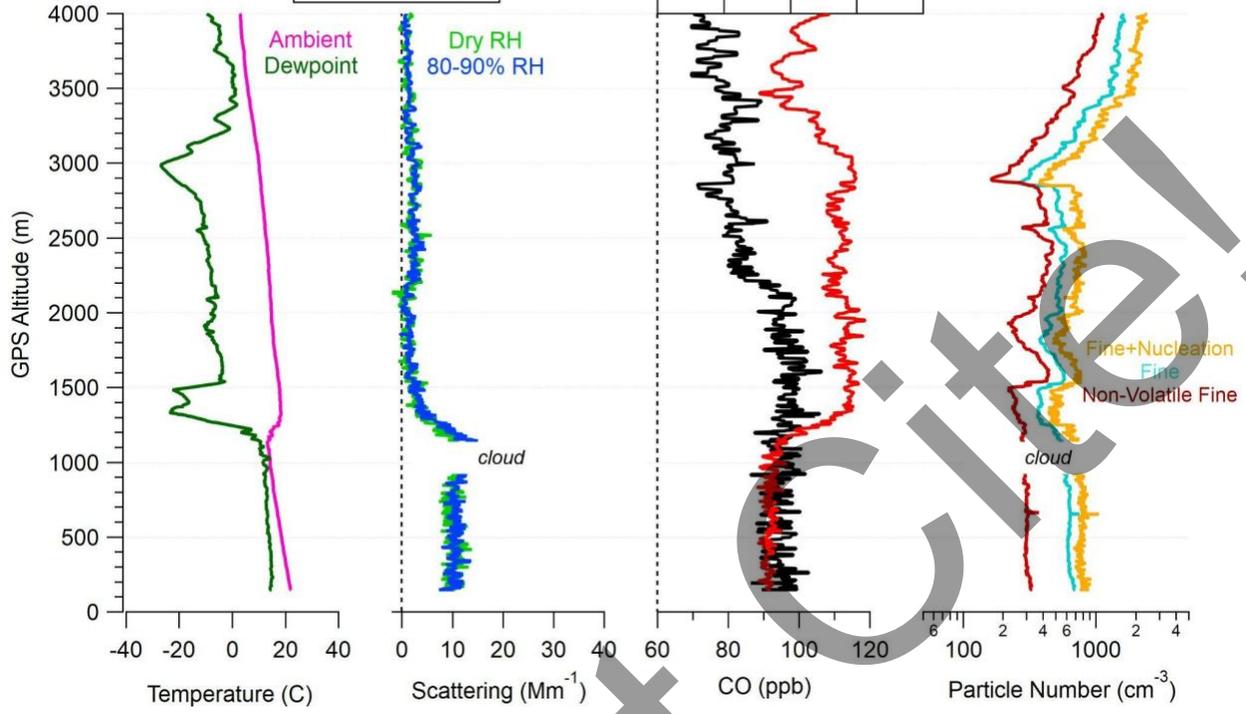
Do Not Cite!



Tudor Hill Spiral

6/8/2022
20:30 - 20:45 UTC

RF169



Do Not Cite!

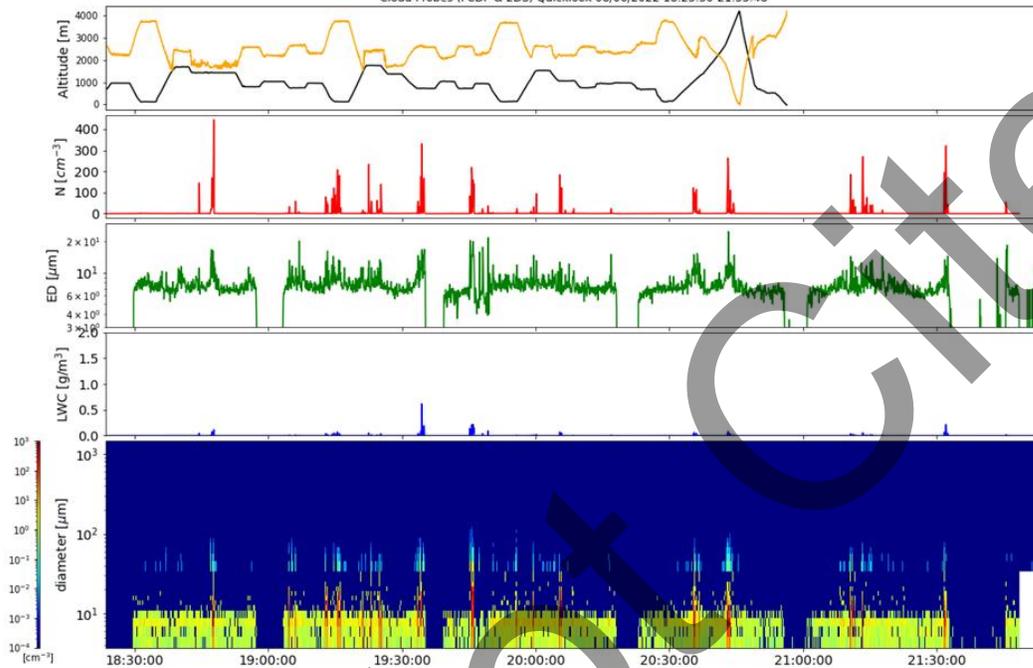
Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



Cloud Probes (FCDP & 2DS) Quicklook 08/06/2022 18:23:30-21:53:48



Simon.Kirschler@dlr.de, Christiane.Voigt@dlr.de, richard.h.moore@nasa.gov, ewan.c.crosbie@nasa.gov

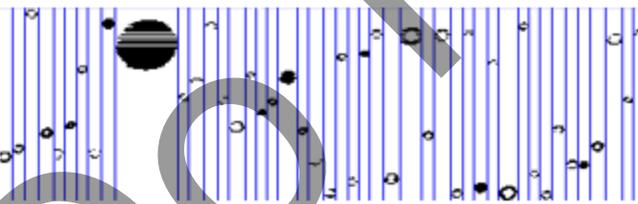
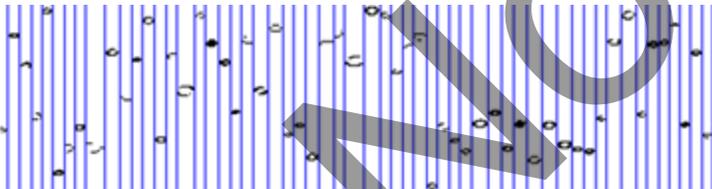
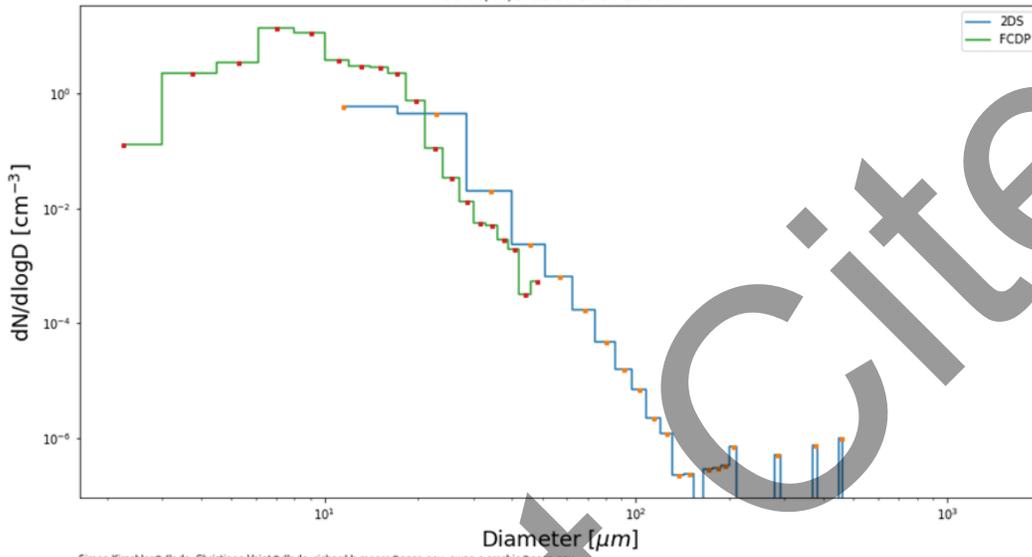
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PSD ACTIVATE

preliminary data, only for quicklook use
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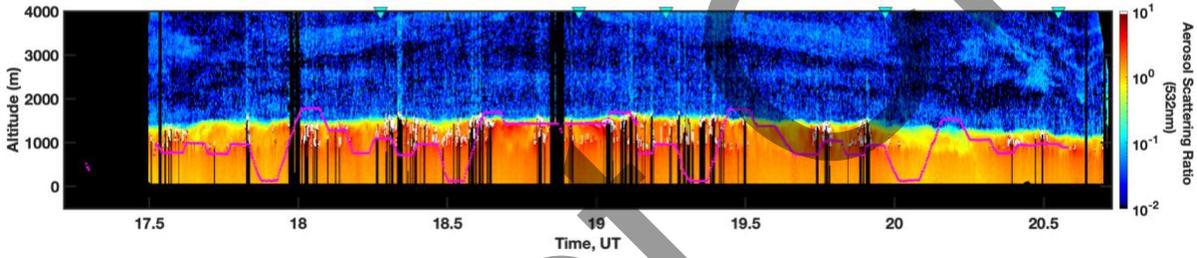
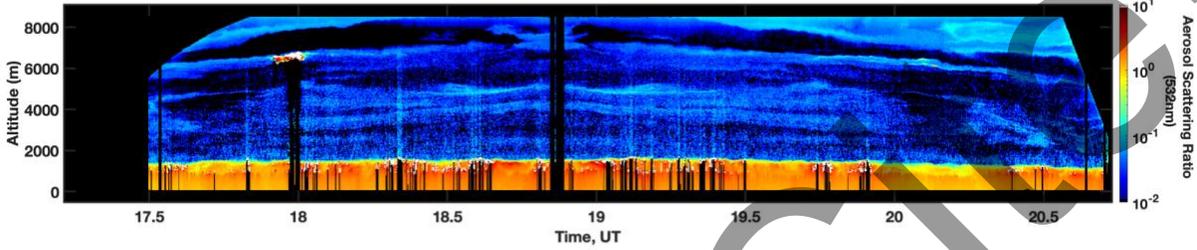
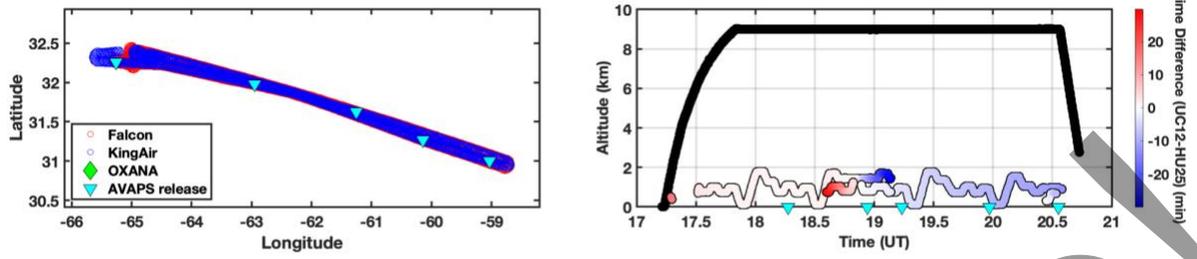


PSD 08/06/2022 18:23:30-21:53:48



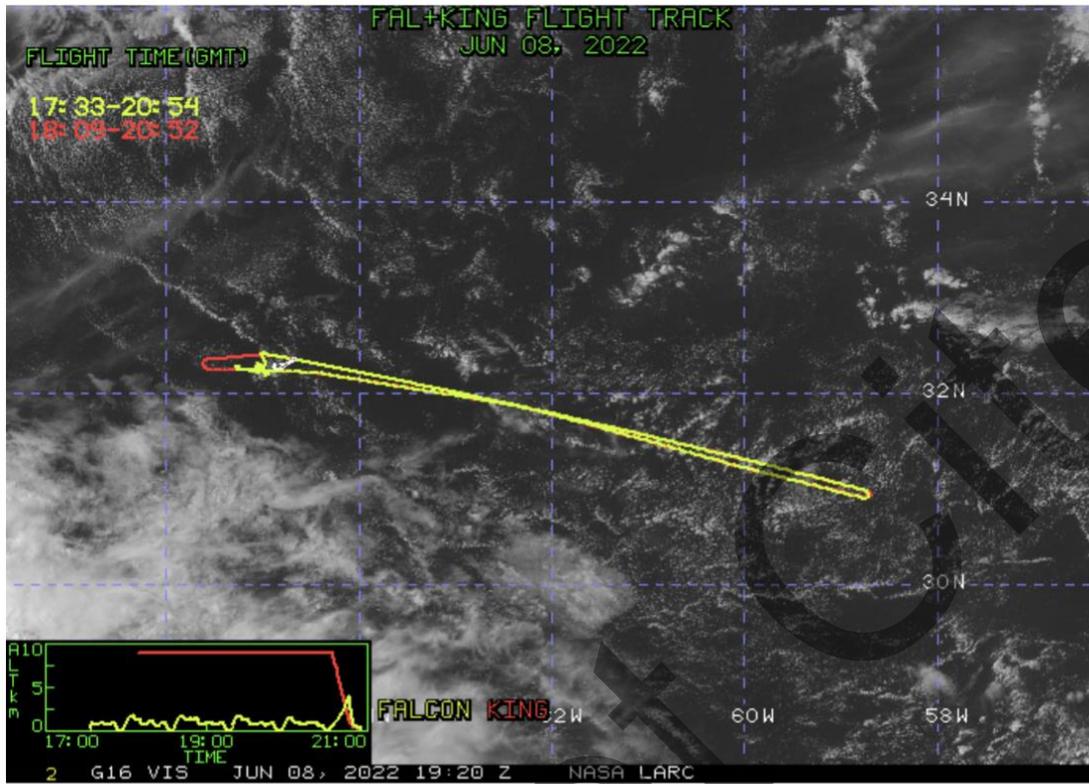
Only pure liquid clouds with Drizzle.

20220608 - ACTIVATE - KingAir and Falcon flight tracks

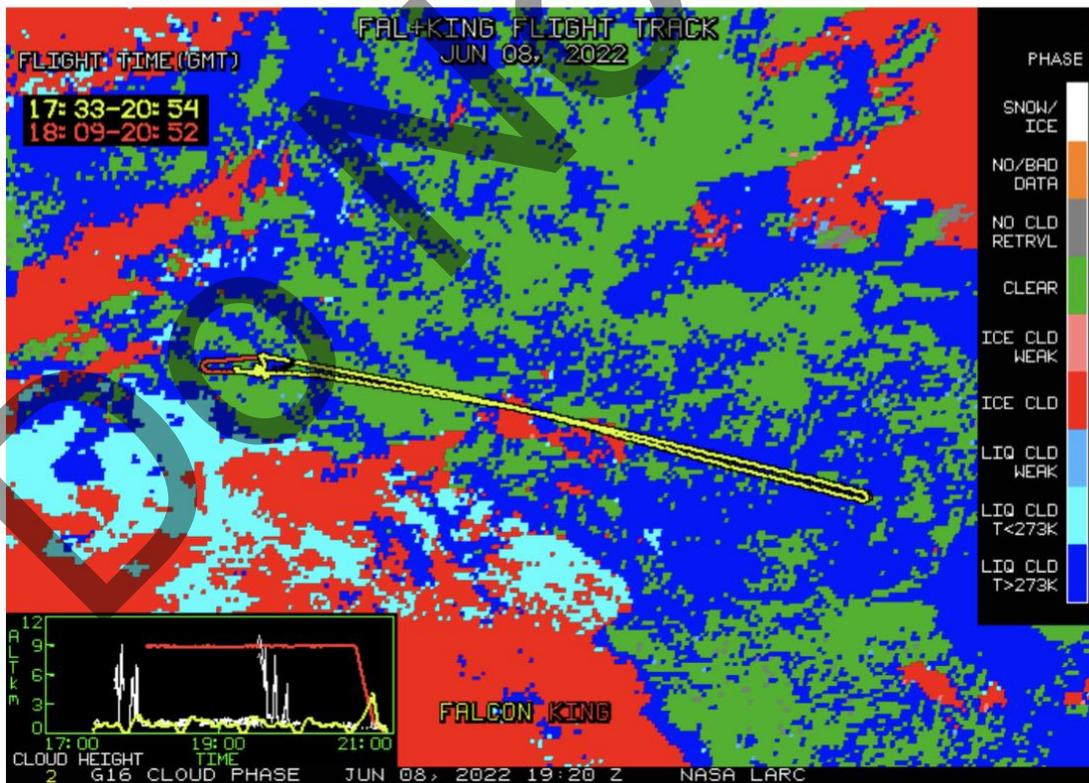


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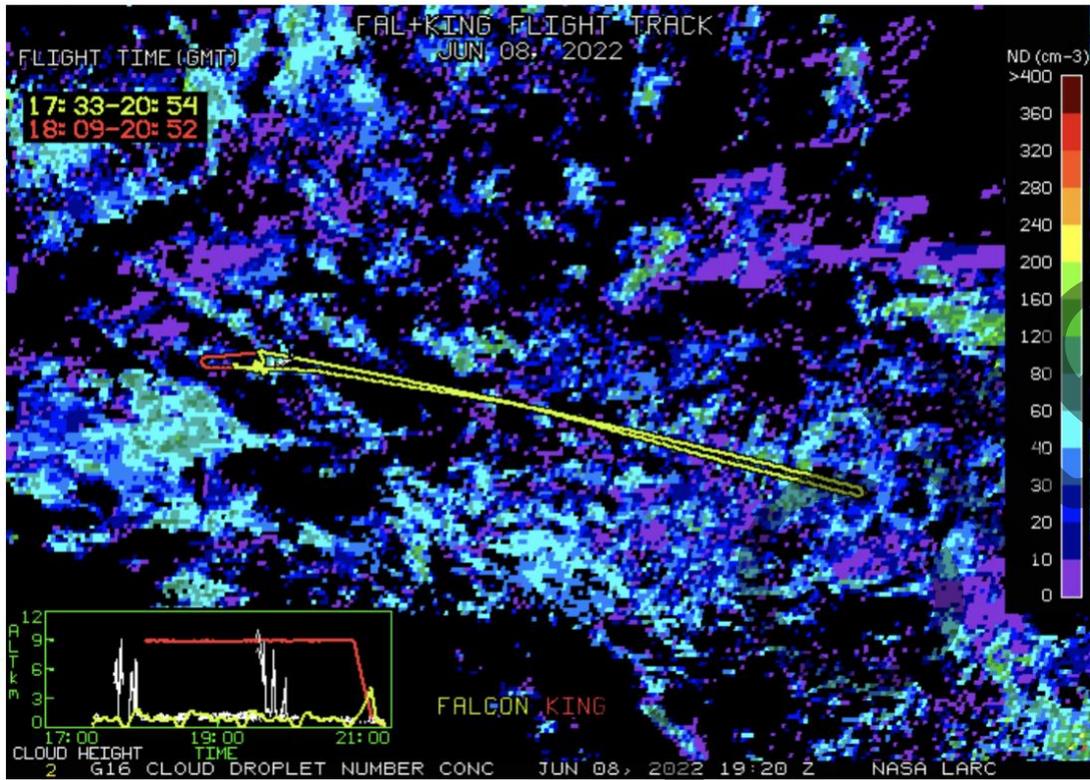
NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 169, 19:20 UTC Jun 08, 2022
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

