

Flight Scientist Report
Thursday 02/03/2022 ACTIVATE RF118

Flight Type: Statistical Survey Flight
Flight Route: KLFI-ECG-OXANA-3215N07500W-OXANA-ECG-KLFI
Special Notes: AMS down this flight. 2nd of 2 flights this day.

King Air

Pilot report (Coldsnow):

Flight flown as briefed (LFI ECG OXANA 3215N 075W OXANA ECG LFI). Timing was within 10 minutes during the entire flight path (majority of flight was +/- 1 min). Four dropsondes released. All were nominal. Winds were W/SW ranging from 10-35 knots. Descent started approximately 40 NM from ECG on the RTB due to clouds and icing. No anomalies noted with the instrumentation. Aircraft fuel shutoff valve was tested after landing and was failing the check. RSIB investigating the issue.

Flight scientist report (Seaman):

Summary: The second sortie on 2/3/2022 for the B200. Statistical survey joint flight with the HU25 Falcon.

Notes: Cloud near the coast for the B200 required shuttering RSP at the beginning and end of flight.

QNC(s): Shane Seaman.

HSRL-2: nominal operation.

RSP: nominal operation.

Cameras: nominal operation.

Sondes: A total of 4 sondes were dropped.

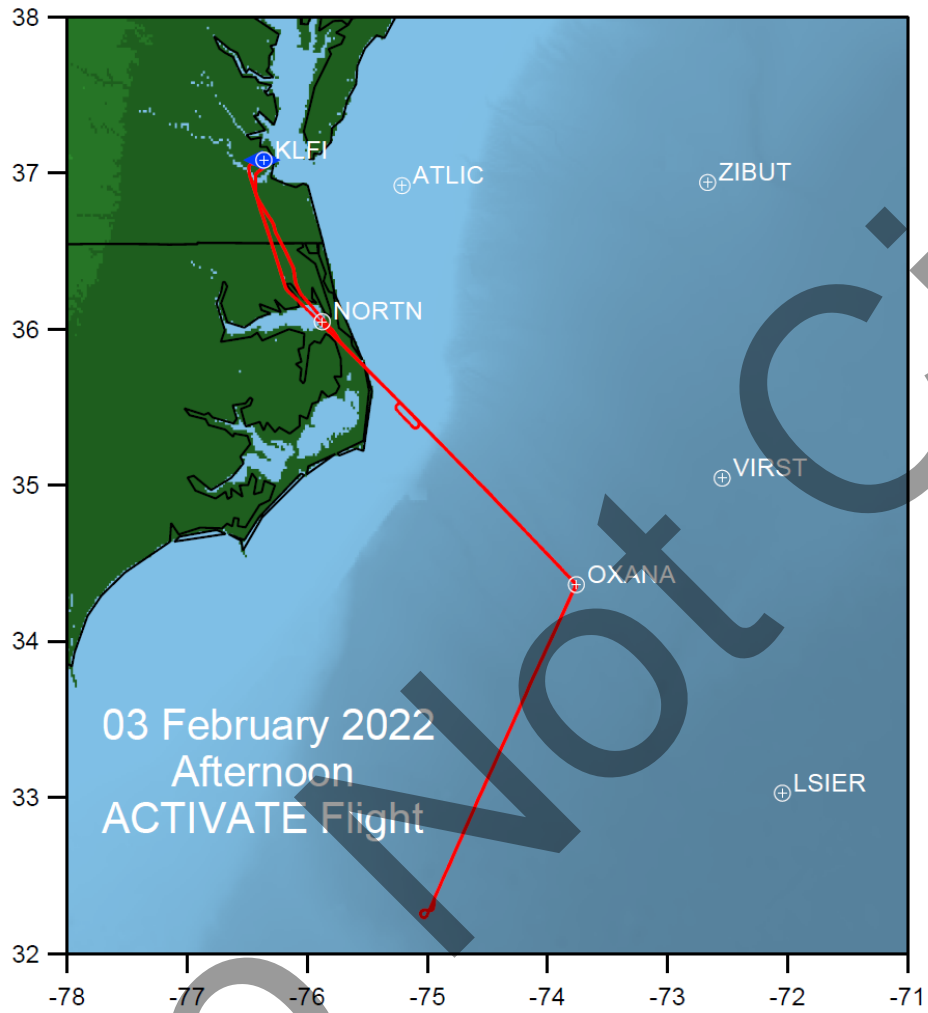
Falcon

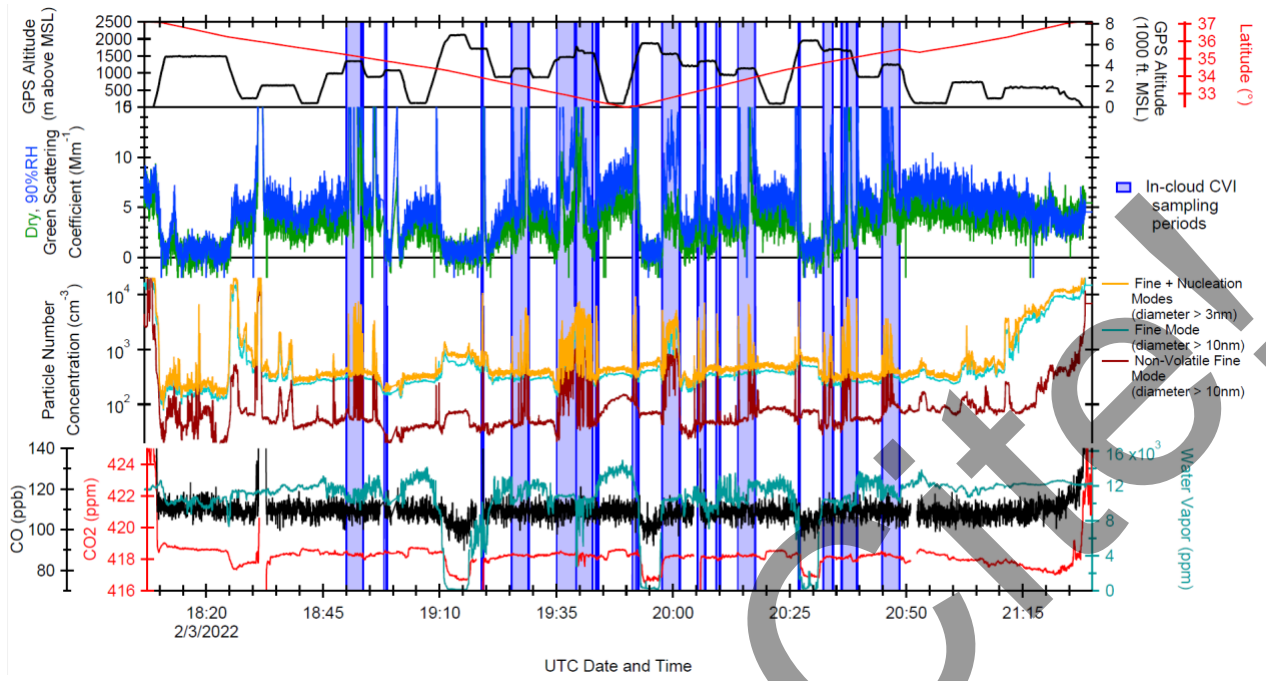
Pilot report (Baxley):

HU-25 ACTIVATE mission with B200; Elder/Baxley, Crosbie/Winstead KLFI-ECG-OXANA-3215N07500W-OXANA-ECG-KLFI (extra track flown prior to return to ECG to accomplish low altitude 3 minute leg). Mission flown as briefed, weather as expected, no unusual events.

Flight scientist report (Crosbie):

Stat survey OXANA-SSW. Similar conditions to the morning flight, the end point was adjusted to try and maximize sampling along a region with enhanced cloudiness.



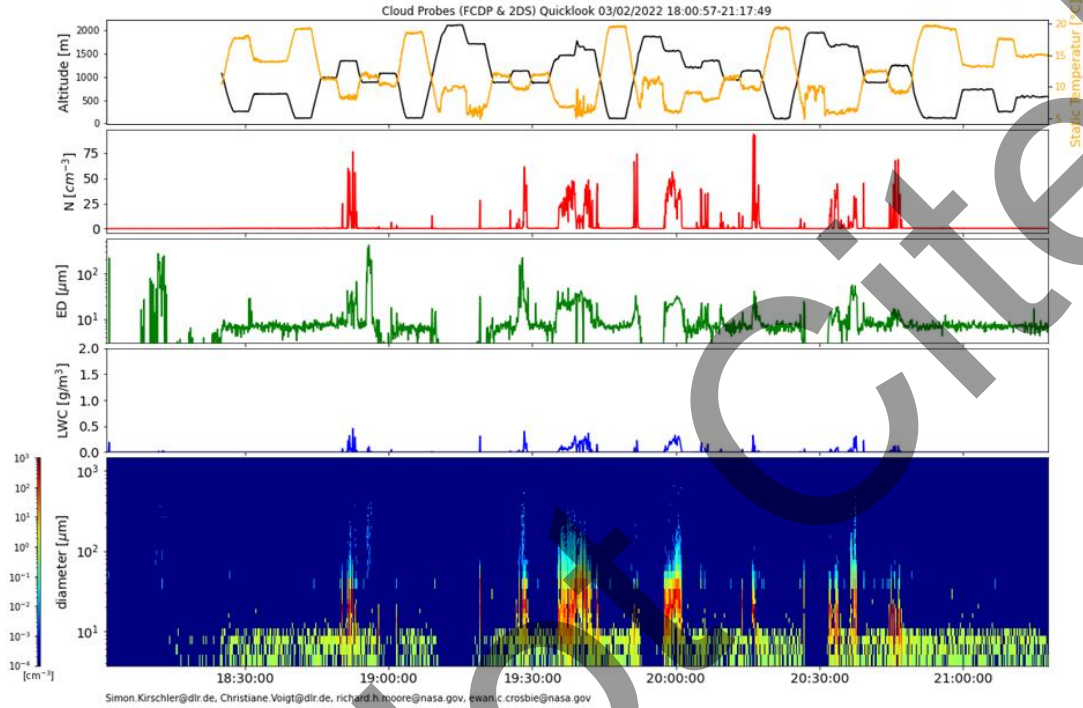


Do Not

Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

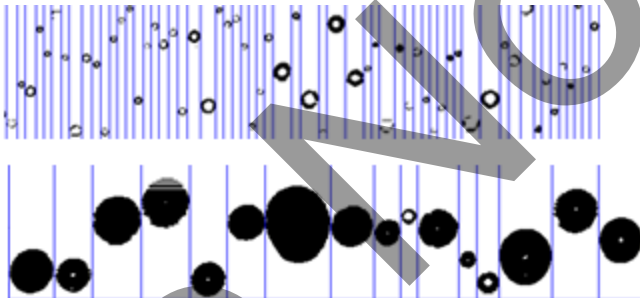
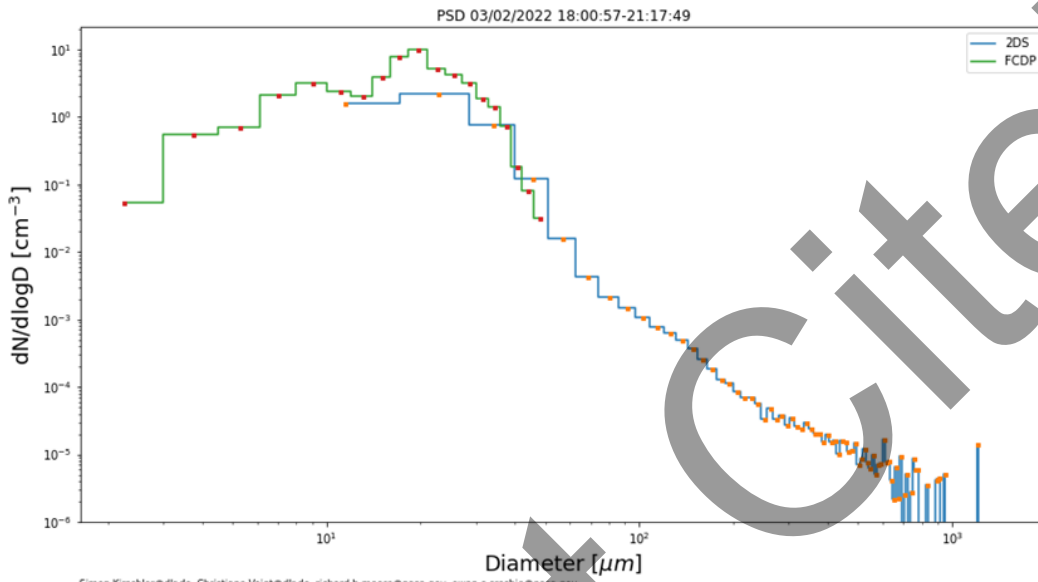
preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



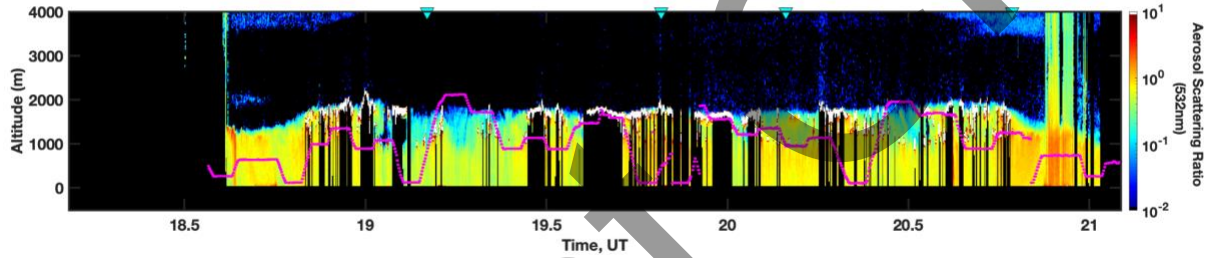
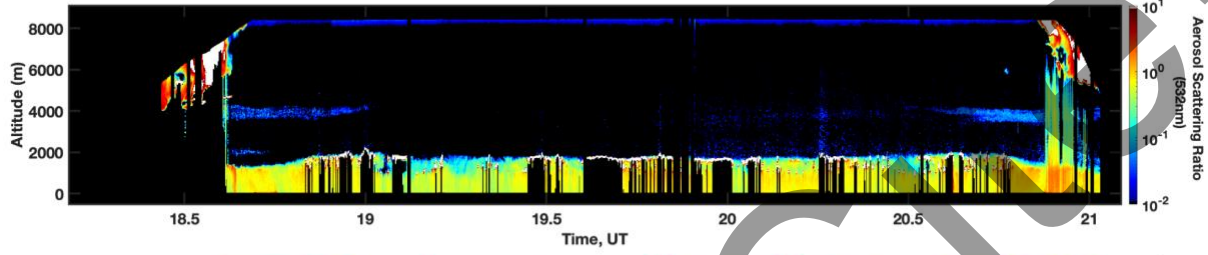
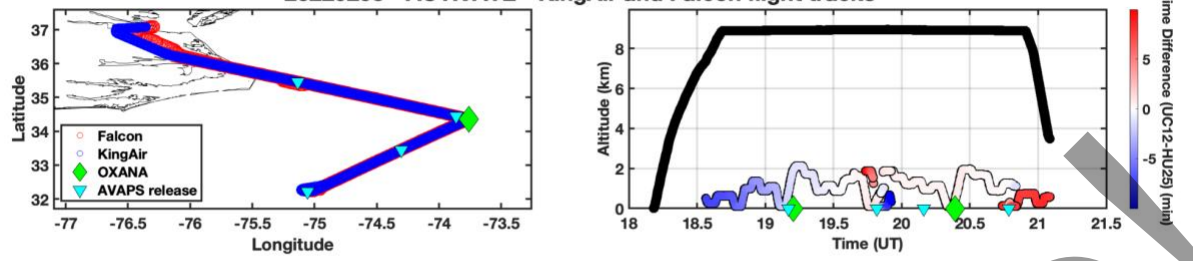
PSD ACTIVATE

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

20220203 - ACTIVATE - KingAir and Falcon flight tracks

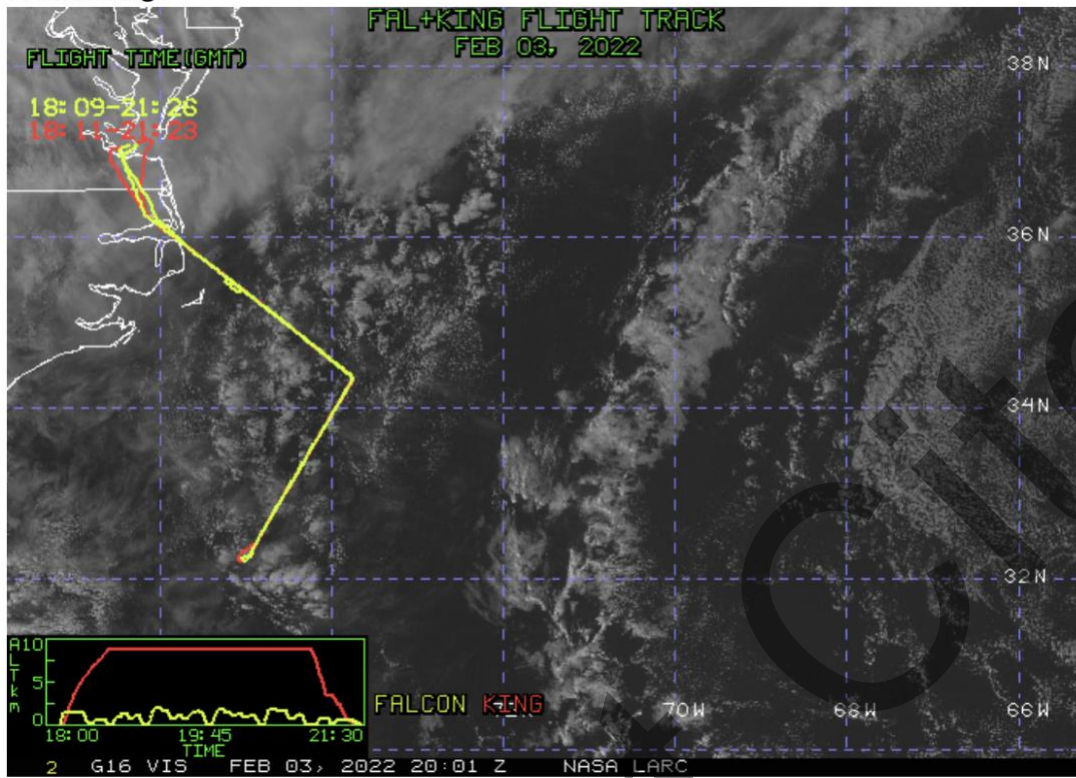


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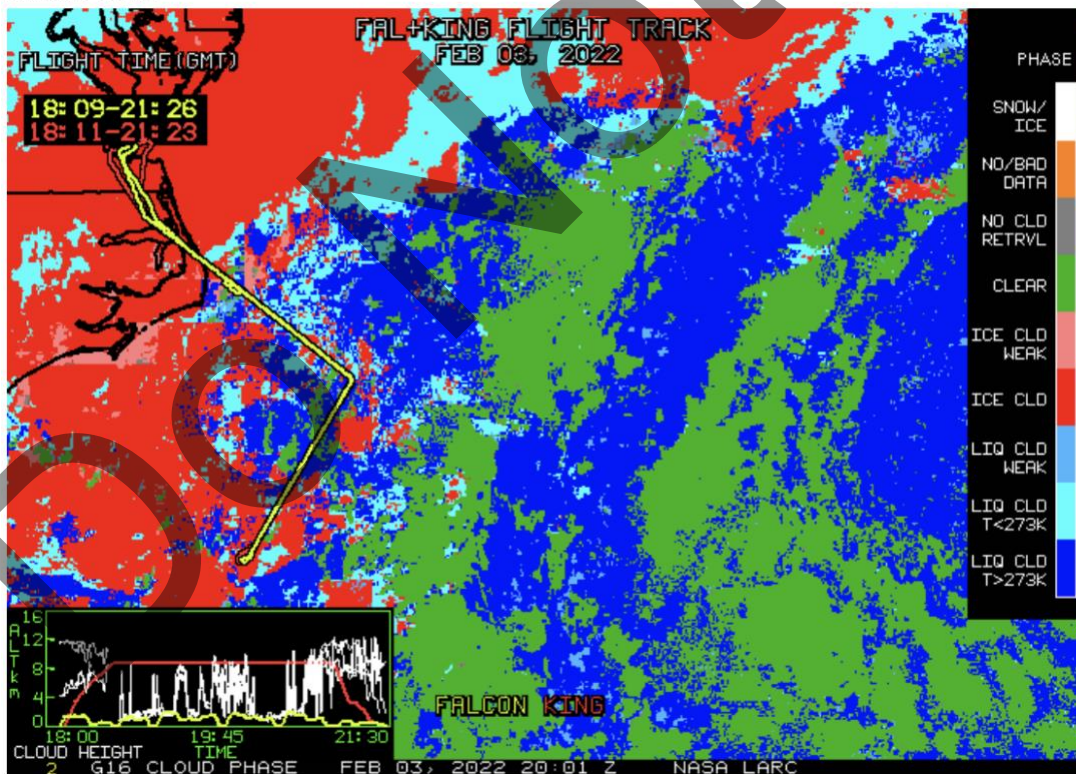
NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 118, 20:01 UTC Feb 03, 2022

Do Not Cite!

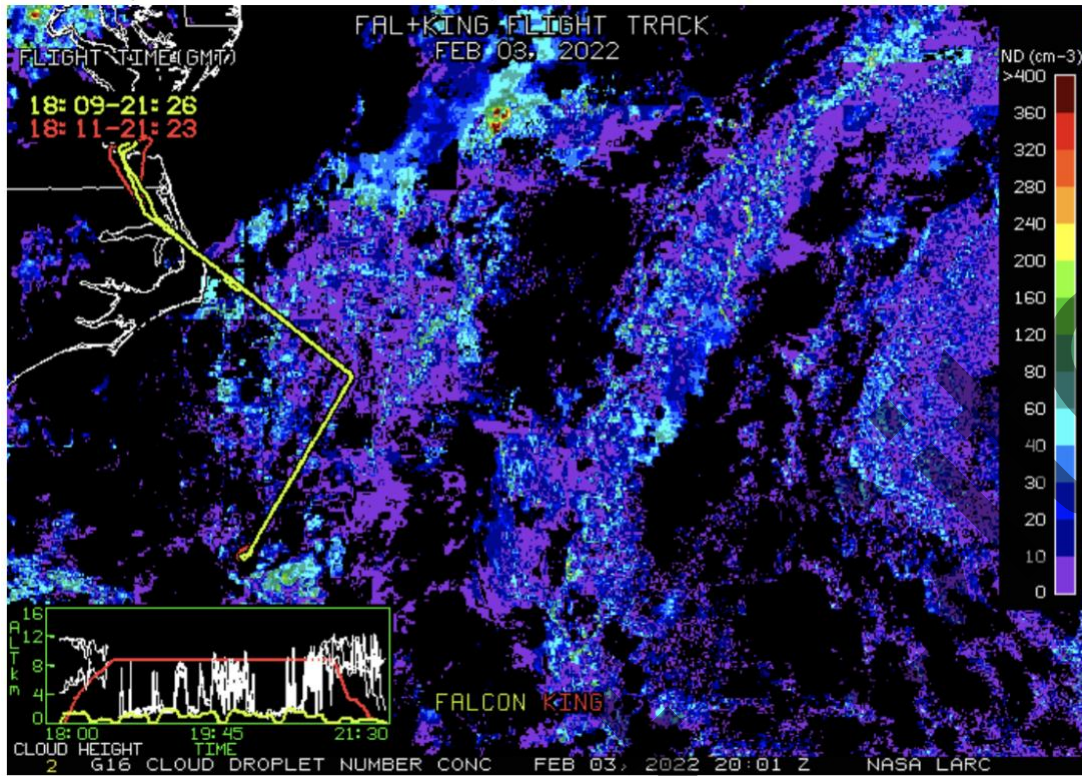
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

