Flight Scientist Report
Monday 05/16/2022 ACTIVATE RF153

Flight Type: Statistical Survey Flight

Flight Route: KLFI ATLIC ZIBUT DARUX ZIBUT ATLIC KLFI

Special Notes:

King Air

Pilot report (Coldsnow):

Mission flown as briefed (KLFI ATLIC ZIBUT DARUX ZIBUT ATLIC KLFI). Winds were W/SW at 20-35 knots. Four dropsonds were released and all were nominal (ZIBUT, DARUX, midpoint between ZIBUT and DARUX and at ATLIC). Timing was within 10 minutes of Falcon the entire day.

Flight scientist report (Harper):

UC12 Takeoff: 12:21:33utc

Aircraft sync: less than 1min out to DARUX. Within 2min for return leg toward the coast.

Cloud conditions: no cirrus above throughout flight.

Sonde 1: 13:17:10utc at ZIBUT.

Sonde 2: 13:55:47utc at DARUX

Sonde 3: 14:21:39utc at midpoint between ZIBUT and DARUX

Sonde 4: 15:19:37utc at ATLIC.

Instrument status: no instrument issues.

Falcon

Pilot report (Slover):

ACTIVATE statistical survey flight. About half cloudy module and half clear module. Flown from KLFI ATLIC ZIBUT DARUX ZIBUT ATLIC KLFI as planned. Clouds were mostly below 4000' MSL and bottomed out about 900' MSL. Some convective activity off the track nearby.

Flight scientist report ():

Winstead:

12:24:44 Takeoff

Notes:

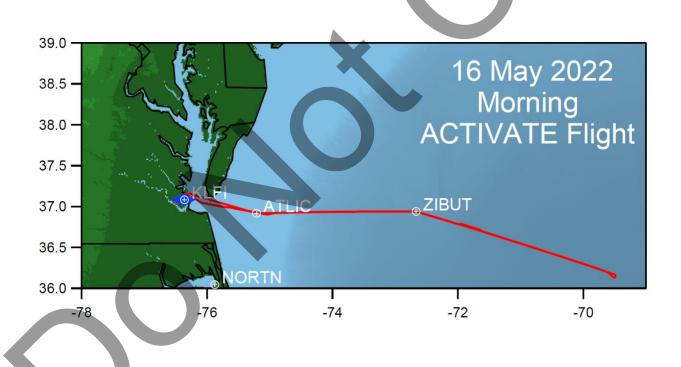
Morning:

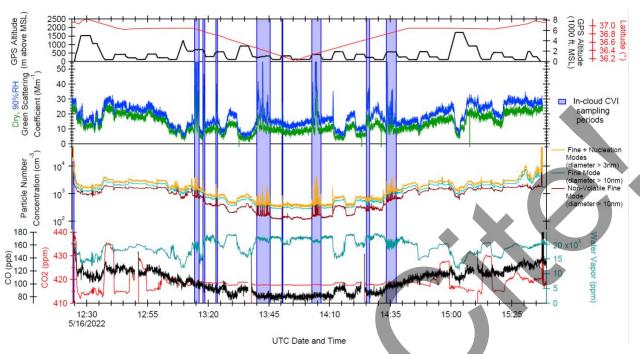
During taxi, wet neph RH > 100%

12:27:20 Wet neph RH <100%; Still adjusting TH

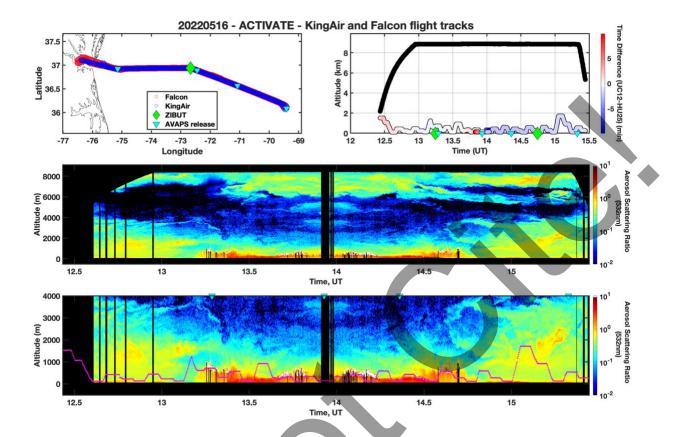
Scattering 25 to 30 on way out, but decreasing as we proceeded further east.

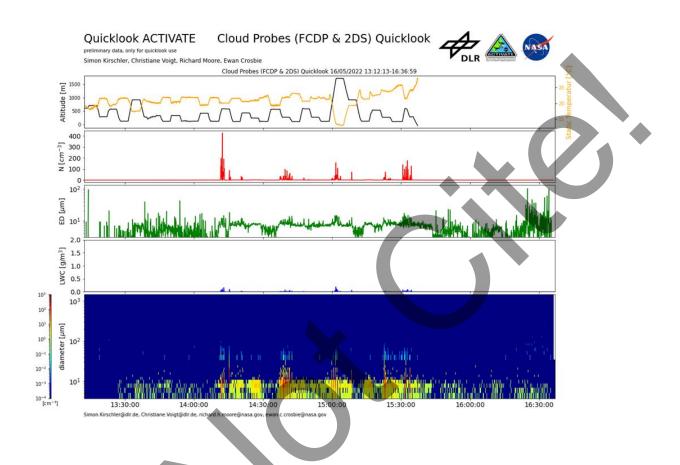
15:31:39 WCM & Humidifier off in preparation for landing

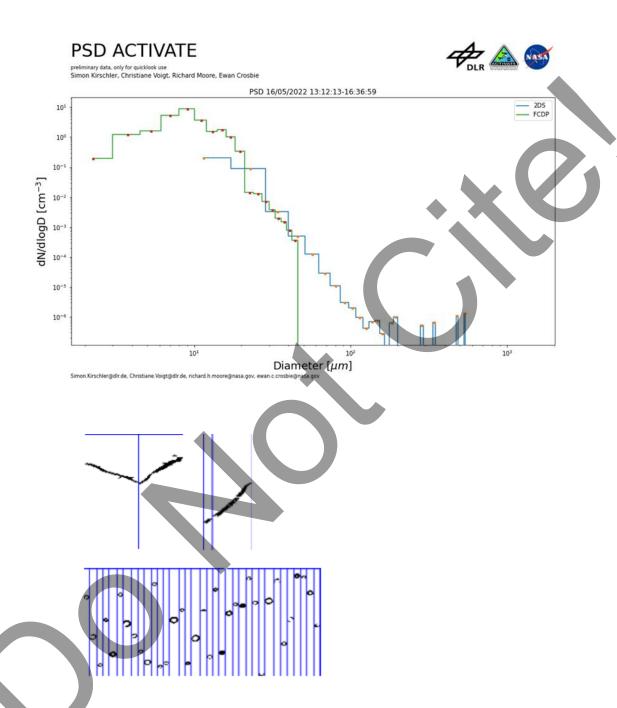








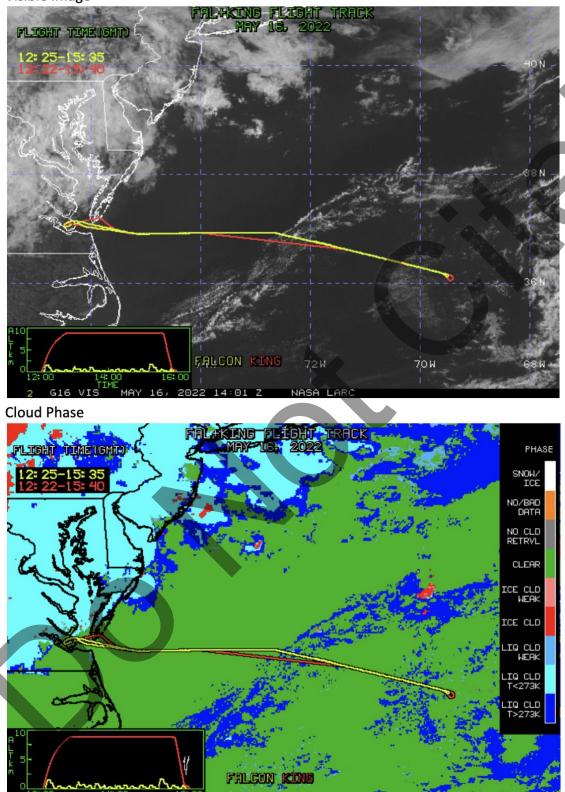




Only pure liquid shallow clouds and large Bioaerosol.



Visible Image



Cloud Droplet Number Concentration (cm-3)

