Flight Scientist Report Tuesday 06/07/2022 ACTIVATE RF166

Flight Type: Statistical Survey Flight Flight Route: TXKF 3232N/06400W 3545N/06000W 3232N/06400W 3212N/06430W 3215N/0650W TXKF Special Notes:

<u>King Air</u>

Pilot report (Wusk):

First flight of a Two flight day in conjunction with HU25. Take off 1/2 hour early to get to altitude then pass back over the island when the HU takes-off. Path out to the NE. Back south of the island, pass over the underwater gliders, and then over fly the HU spiral. Crew Sandeen, Wusk, Shingler

Flight scientist report (Shingler):

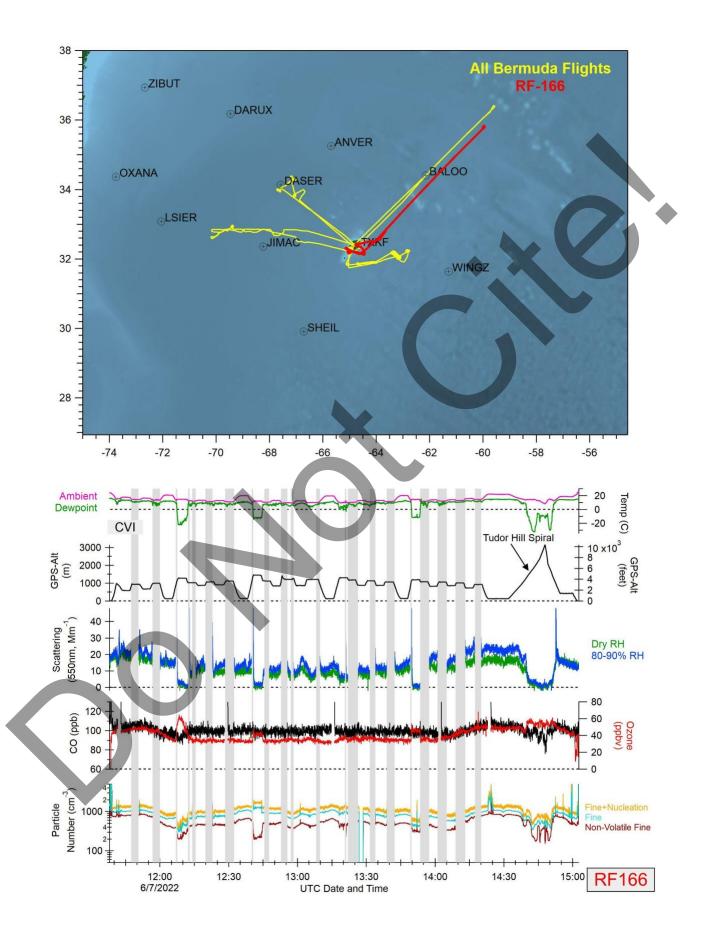
Homogeneous lidar curtain throughout essentially the entire flight. Shallow cu was persistent with CTHs at about 4kft. The FT above was clear and void of most aerosols. There were some cirrus present around 26kft. UC12 descended to stay under the cirrus. Performed an overpass to the BIOS glider location to the east of Bermuda and then an overpass to the Tudor Hill spiral location.

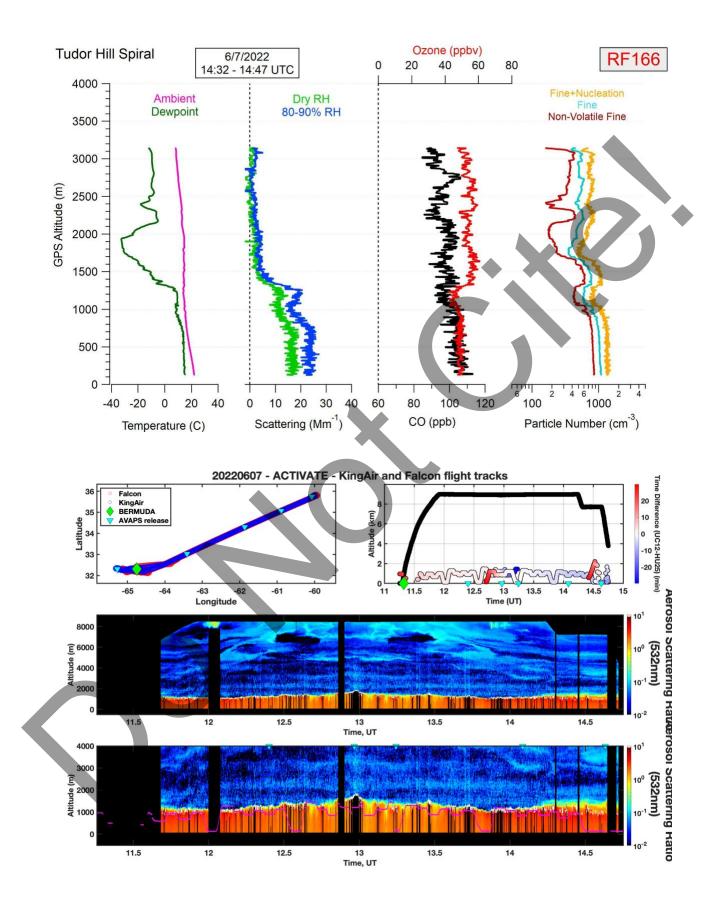
<u>Falcon</u>

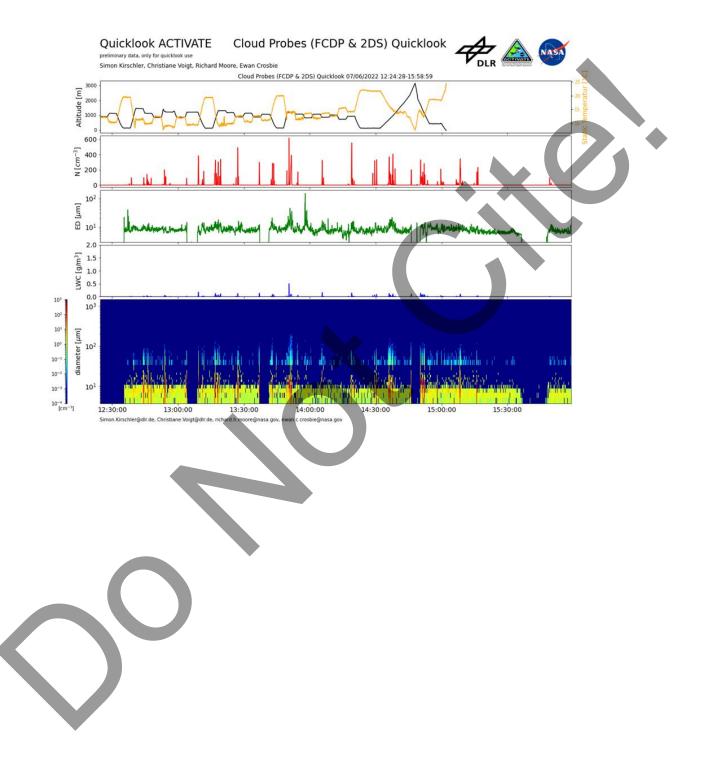
Pilot report (Baxley):

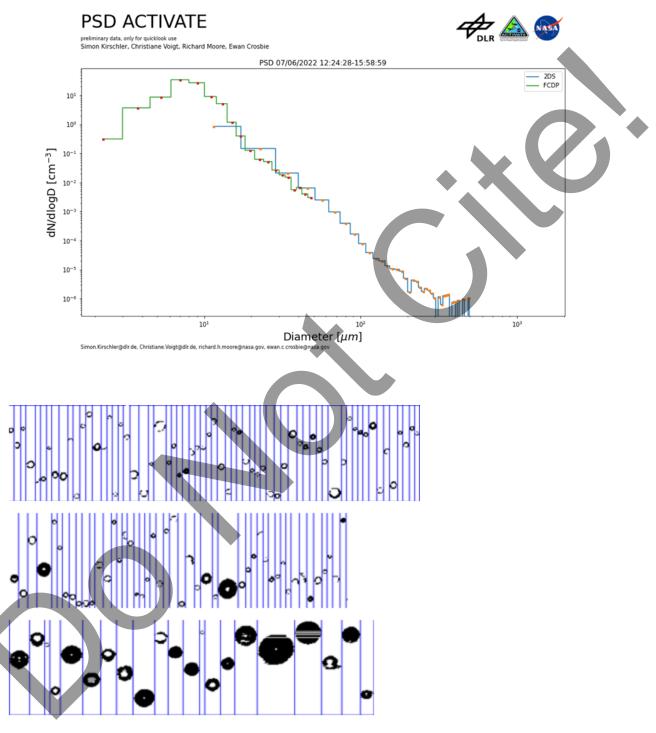
ACTIVATE flight with HU-25 and UC-12; Thorson/Baxley, Crosbie/Winstead TXKF 3232N/06400W 3545N/06000W 3232N/06400W 3212N/06430W 3215N/0650W TXKF - Mission flown as planned, weather as briefed. Minor deviations to course at direction of research team to capture more data. Conducted ~5 nm spiral at Tudor Hill up to ~9000 MSL. No issues or anomalies noted.

Flight scientist report ():





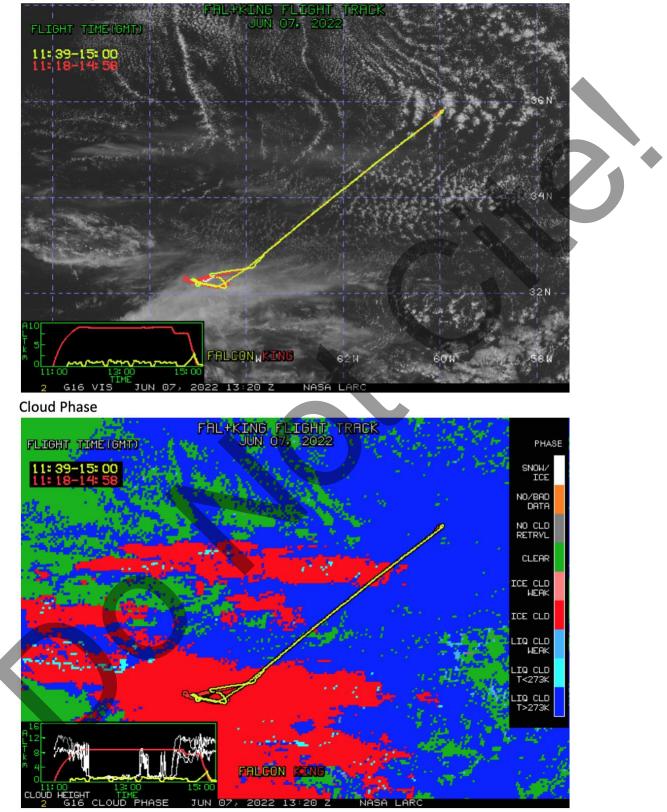




Only pure liquid clouds with Precip.

NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 166, 13:20 UTC Jun 07, 2022

Visible Image



Cloud Droplet Number Concentration (cm-3)

