

Flight Scientist Report
Thursday 06/02/2022 ACTIVATE RF163

Flight Type: Process Study Flight

Flight Route:

Special Notes: Doing a spiral by the Tudor Hill site at end of flight w/ Falcon. UC12 still down.
This flight involved wall patterns with the Falcon in various cloud regimes and clear air for contrasting.

King Air

Pilot report ():

Flight scientist report ():

Falcon

Pilot report (Baxley):

Initially planned as coordinated ACTIVATE flight for HU-25 and UC-12, the replanned as single HU-25 mission for CALIPSO underpass. TXKF-3055N/05813W-3215N/06500W-TXKF. Deviated significantly from the plan at the direction of the research team.

Flight scientist report ():

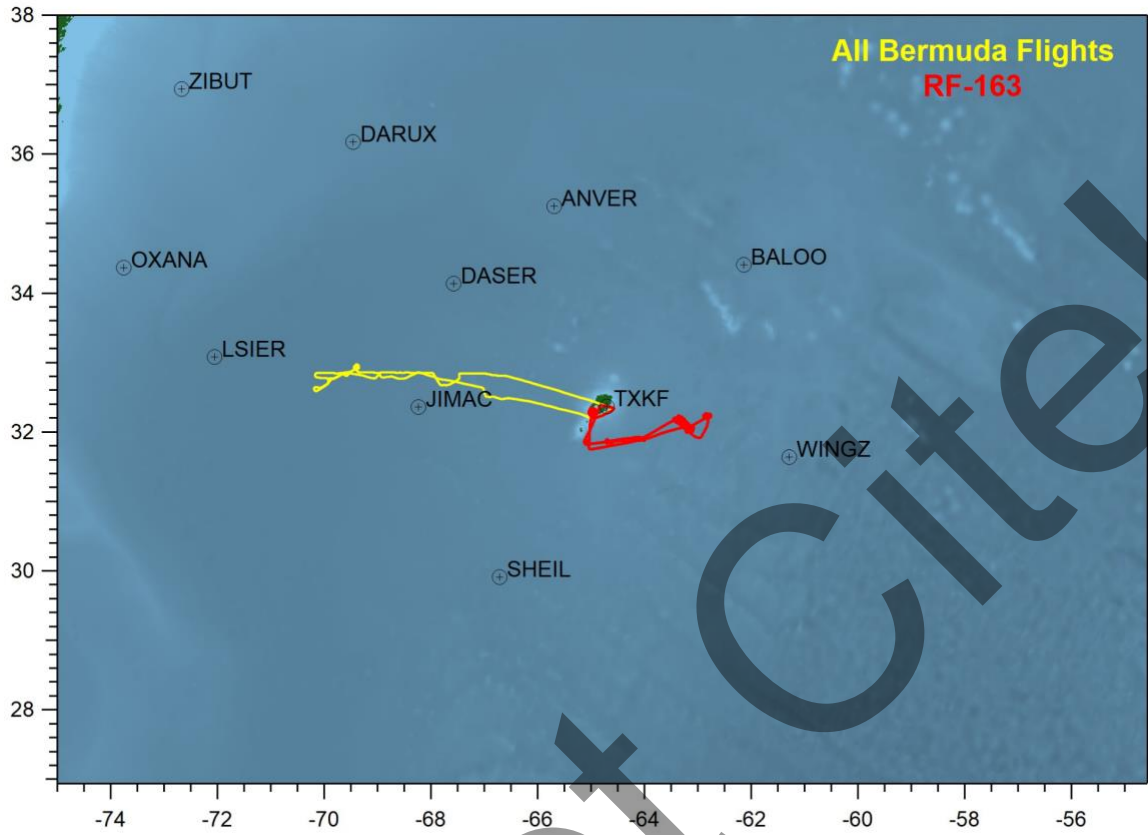
Winstead:

17:16:10 Spiral up near developing convection tower

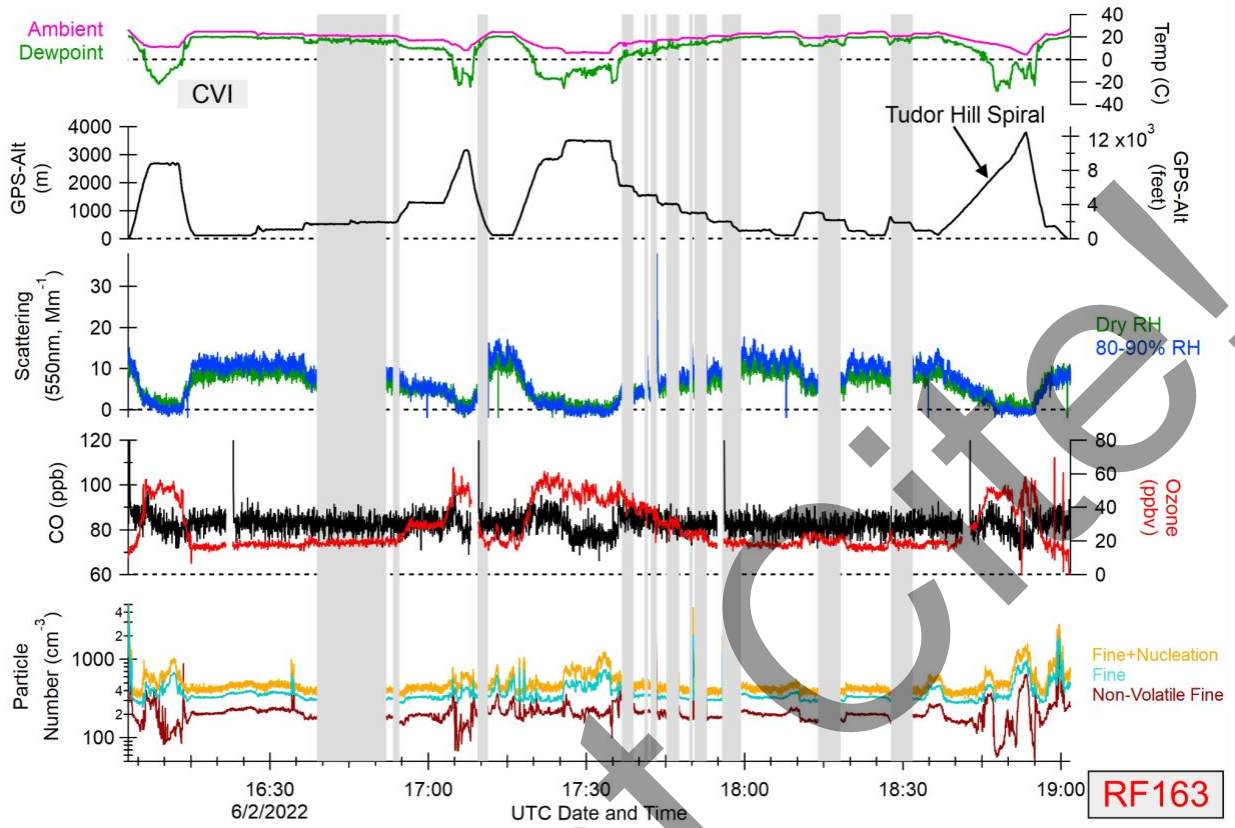
17:37:15 Towers collapsing

18:00:00 Finishing cloud towers penetrations with below cloud run

18:36:45 Start spiral up near Bermuda coast at 500 ft/min near Bermuda coast.



Do Not Cite!

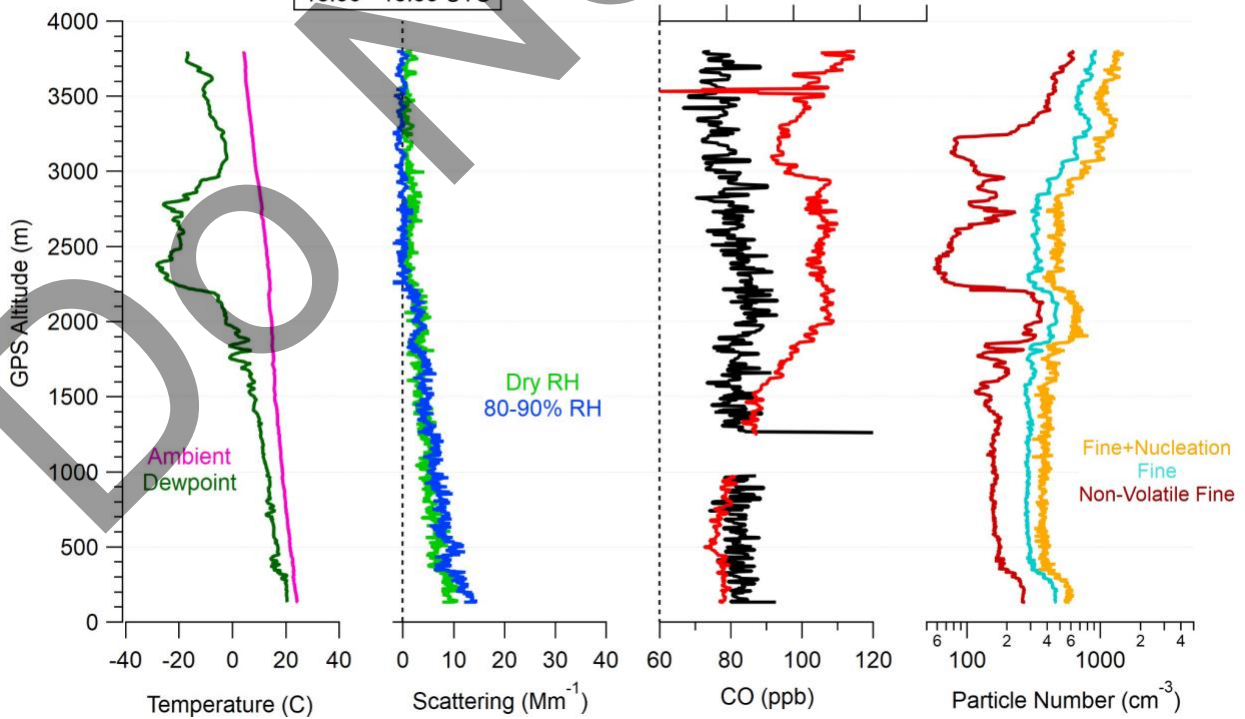


Tudor Hill Spiral

6/2/2022
18:36 - 18:53 UTC

Ozone (ppbv)
0 20 40 60 80

RF163



Do Not Cite!

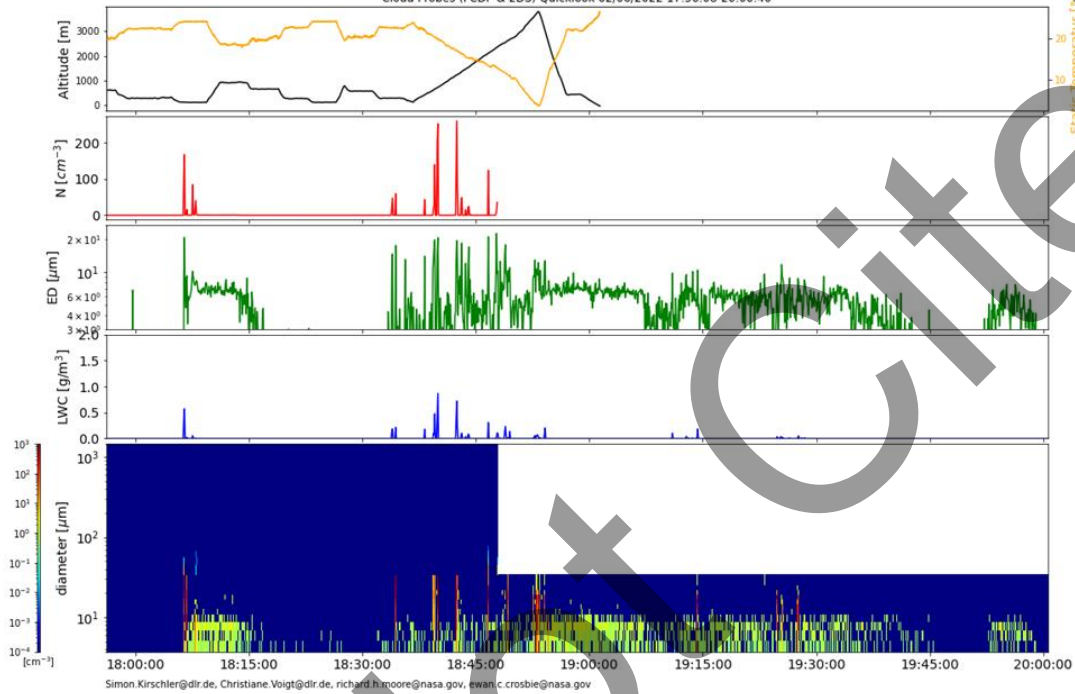
Quicklook ACTIVATE Cloud Probes (FCDP & 2DS) Quicklook

preliminary data, only for quicklook use

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



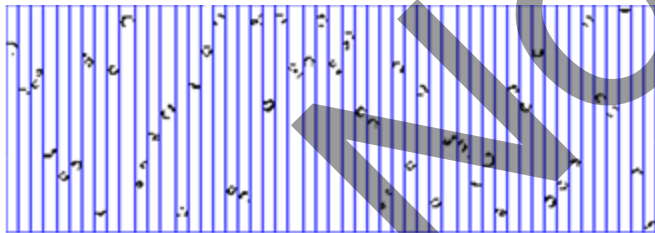
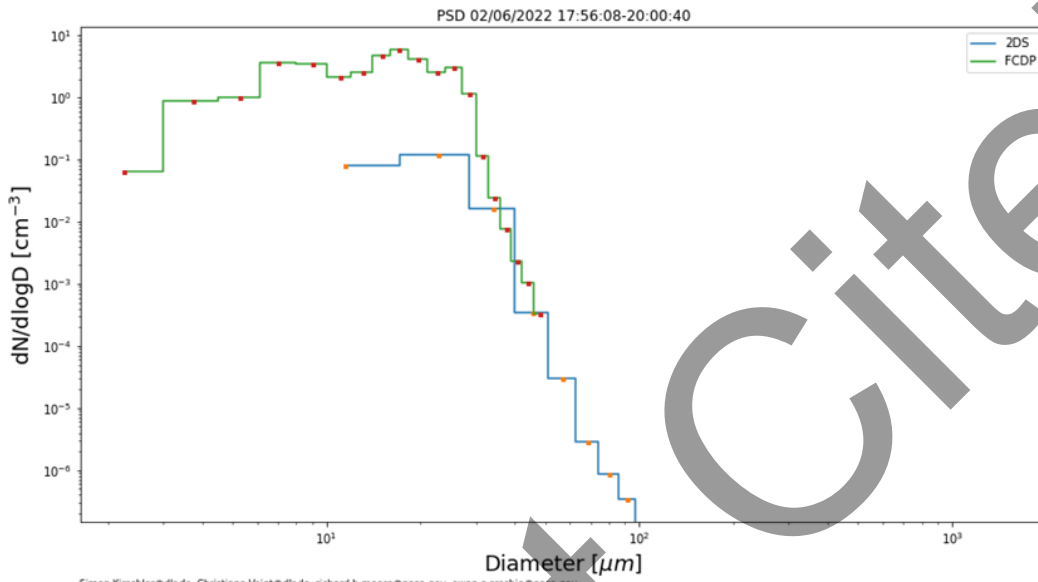
Cloud Probes (FCDP & 2DS) Quicklook 02/06/2022 17:56:08-20:00:40



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

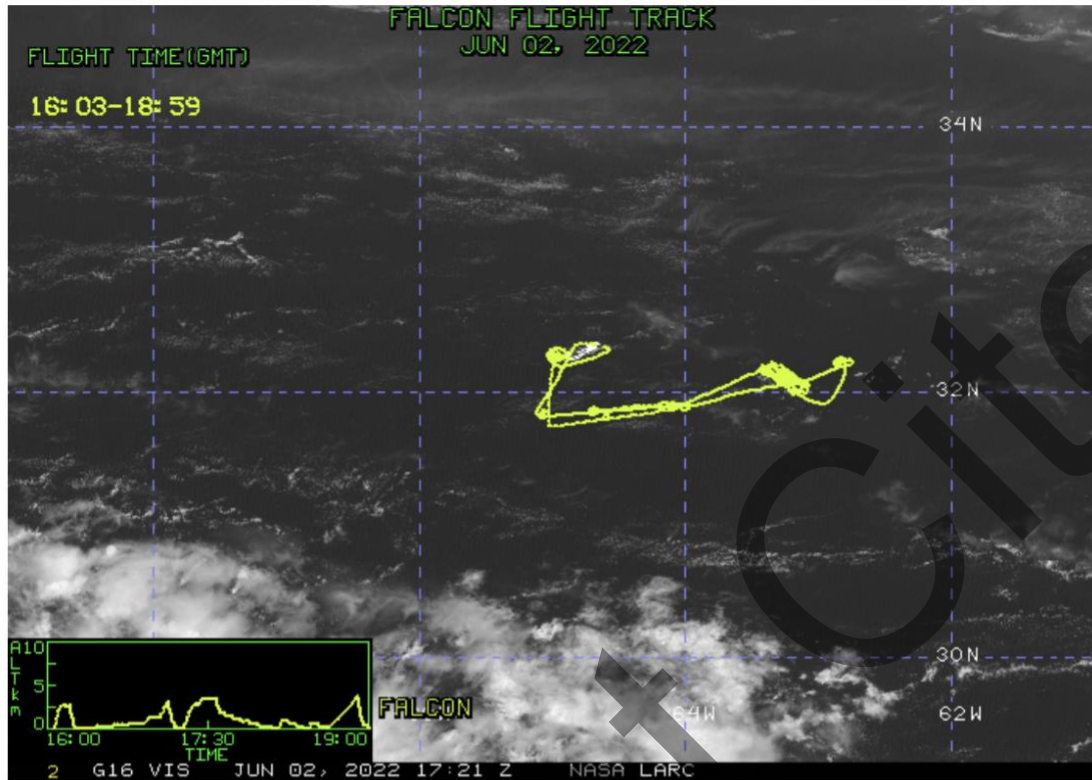
PSD ACTIVATE

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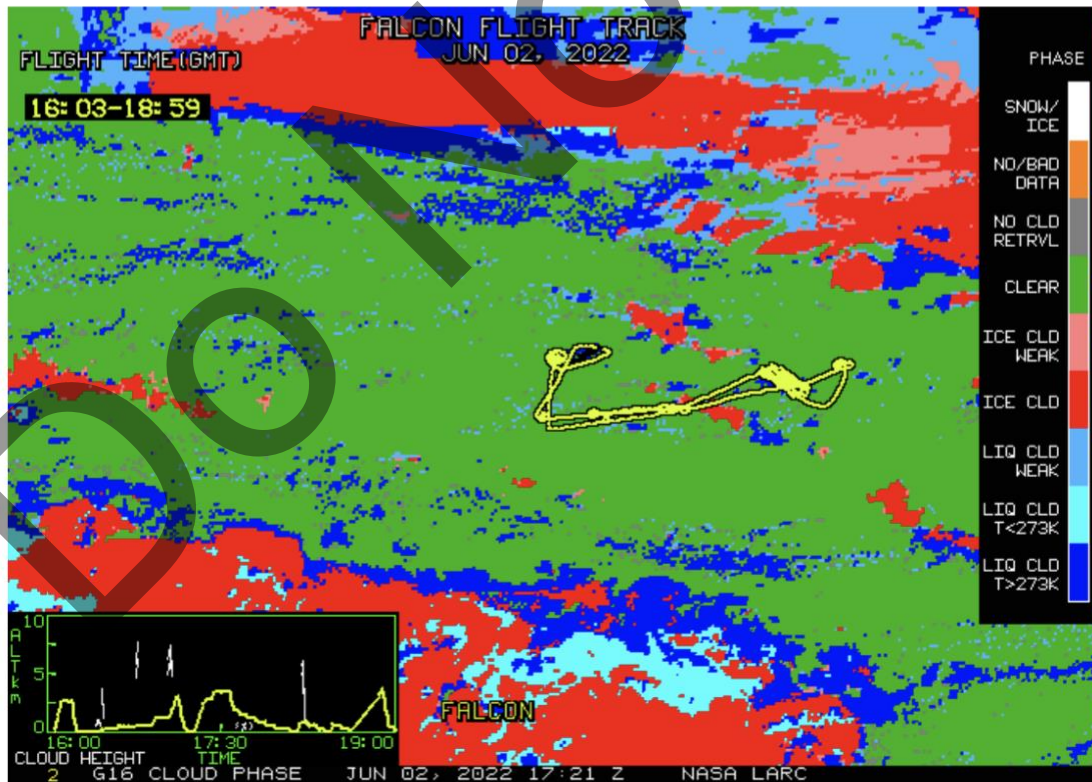


Only pure liquid clouds without Precip.

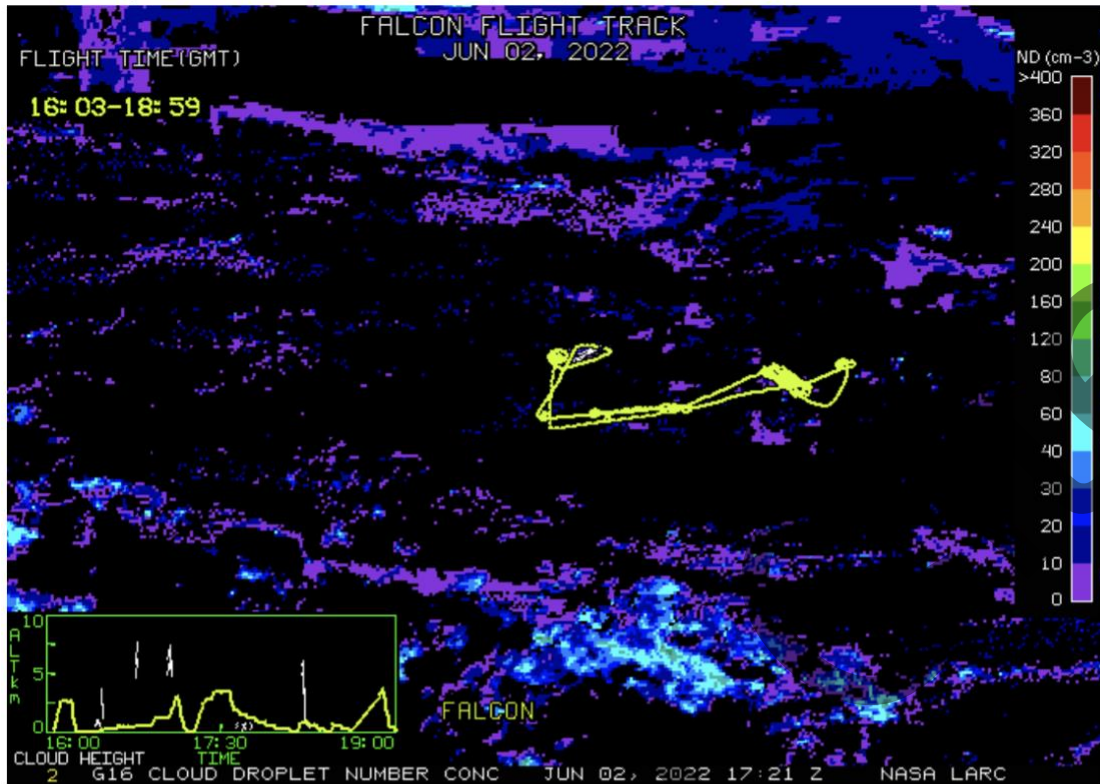
NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 163, 17:21 UTC Jun 02, 2022
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

