Flight Scientist Report
Tuesday 05/31/2022 ACTIVATE RF161

Flight Type: Statistical Survey Flight

Flight Route: KLFI - ATLIC - ZIBUT - BOVIC - TXKF

Special Notes: Transit flight from LaRC to Bermuda. Excellent day for science as weather

cooperated.

King Air

Pilot report (Wusk):

Deployment flight of UC12 to Bermuda in conjunction with the HU for the ACTIVATE Project. Crew was Sandeen, Wusk, Shingler, Banda.

Flight scientist report (Shingler):

KLFI ATLIC ZIBUT BOVIC TXKF

Transit for Bermuda deployment. On the way out to ZIBUT, a fairly capped layer up to 5kft with moderate scattering of ~2ASR at peak. Lofted layers above with possible dust at 10-12kft and smoke from 14-16kft. Fairly stratified layers along the way today. Shallow cu at 2kft along the money leg. Scattered shallow cu at 2kft all along the way in during the second half of flight.

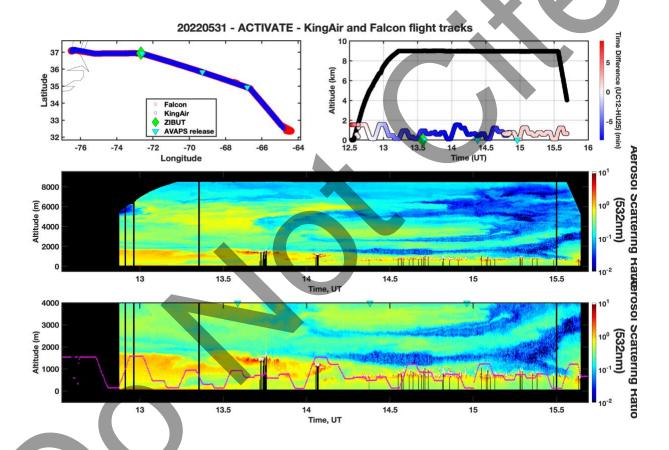
3 SONDES dropped ZIBUT MID ZIBUT/BOVIC BOVIC

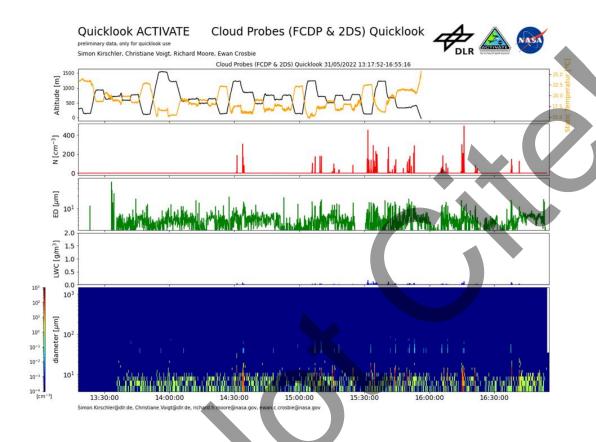
Falcon

Pilot report (Baxley):

ACTIVATE HU-25 flight with UC-12; deployment to Bermuda Crew: Thorson/Baxley, QNC: Crosbie/Winstead KLFI - ATLIC - ZIBUT - BOVIC - TXKF Mission flown as briefed and weather as expected (light low level clouds). Made one three minute reverse track in the vicinity of BOVIC to align aircraft.

Flight scientist report ():

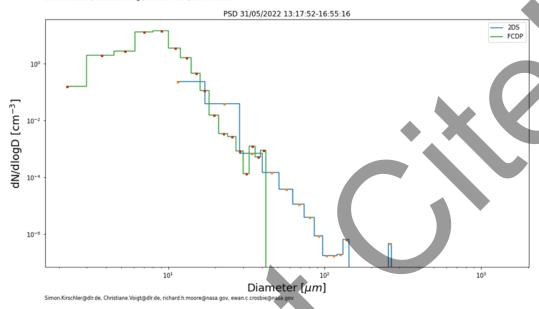


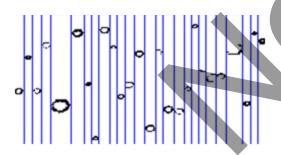


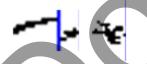
PSD ACTIVATE

Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbi



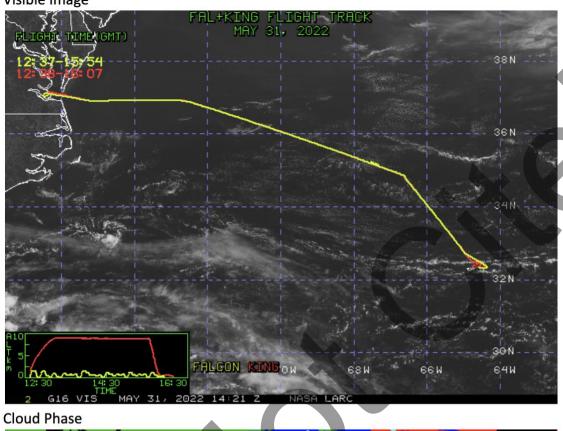


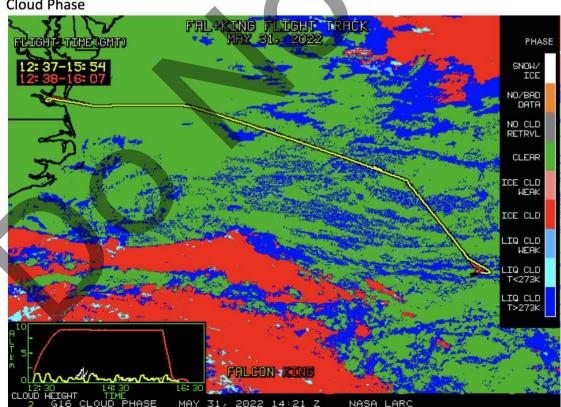




Only pure liquid clouds without Precip and occasionally small Bioaerosol.

NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 161, 14:21 UTC May 31, 2022 Visible Image





Cloud Droplet Number Concentration (cm-3)

