Flight Scientist Report Friday 03/02/2020 ACTIVATE RF15

Flight Type: Statistical Survey Flight – Clouds Flight Route: OXANA to 32.61409/-73.20304

Special Notes: interesting line of convergence just off shore leading to convection

## King Air

11:55 take-off 15:11 landing

o Did 'registration' maneuvering for RSP near end of flight

## Instruments:

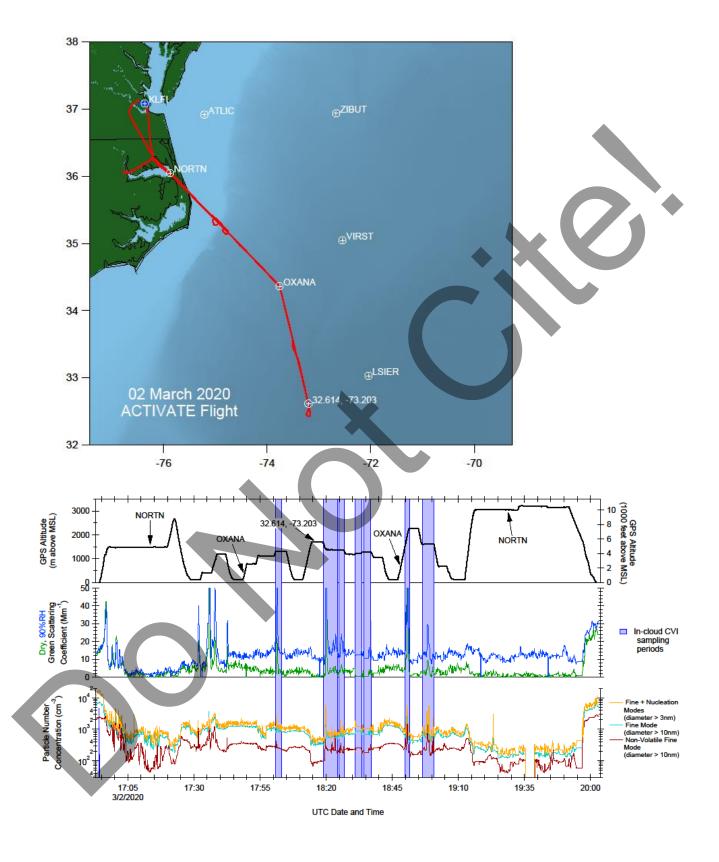
- o No HSRL issues; however CR is still low, but not lower than it has been
- o Sondes dropped near OXANA and then at turn-around
- o Cal on way out before OXANA, no cal on the way back in
- o Applanix issue on startup but restart of iridium fixed it
- o GoPro stopped at some point, but restarted

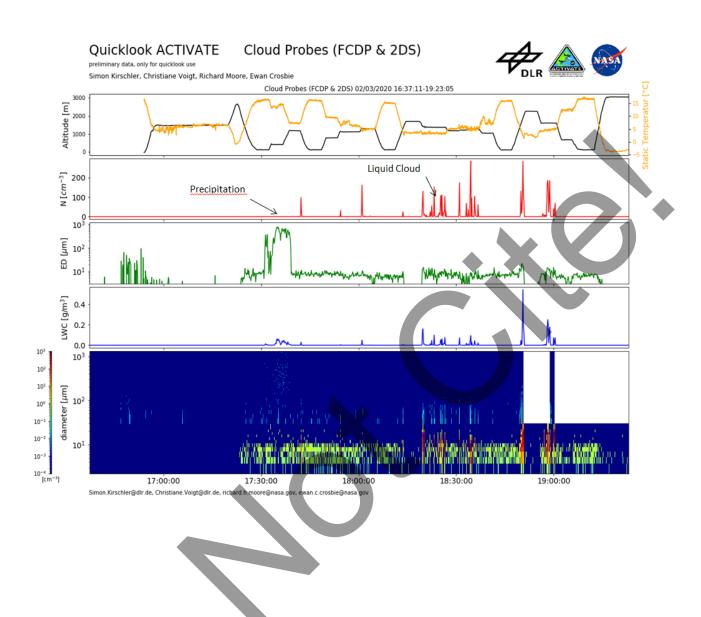
## Falcon

11:53 take-off 15:03 landing

- o Yasky buying 1st round for having a delayed take-off; AMS recovered thankfully
- o Took off down south, off coast, descended to minalt 400-1000 leg
- o Mixed below cloud
- o Matched up well with 528, 528 did pass and 524 went 1 minute past turn around point, passed them again on way back
- o Audible over land, no traffic in Elizabeth, Norfolk was accommodating to do wind calibration here
- o 250 heading, 5 minutes in each direction for winds calibration
- o OXANA to beach, 1 360 spiral down/up at Tom's Corner
- o Very shallow clouds, modified module when in cloud levels to maximize time in clouds, very mixed, 6-7 minute transect, cloud bases were changing, precip on the way out, none on the way back

Rich Moore Quicklook Images:

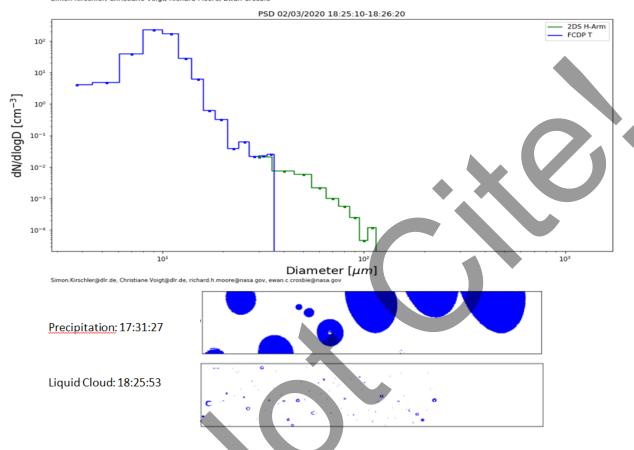




## **PSD ACTIVATE**

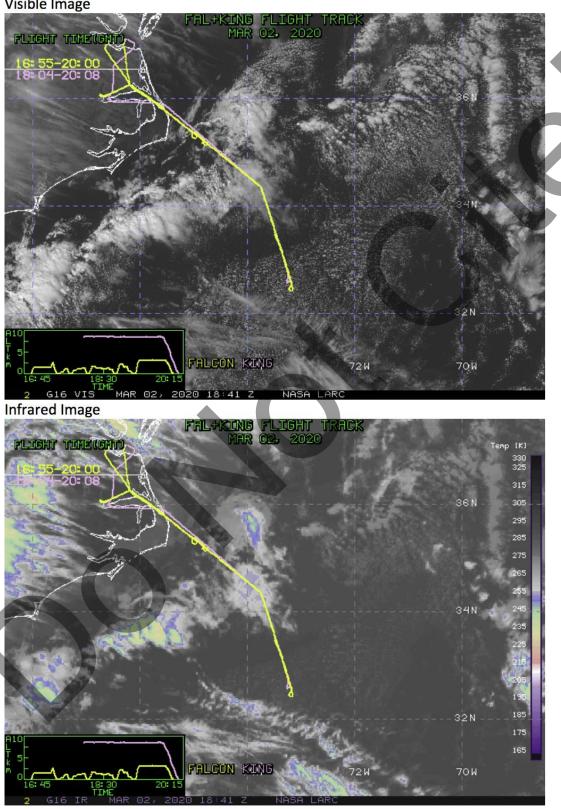
preliminary data, only for quicklook use Simon Kirschler, Christiane Voigt, Richard Moore, Ewan Crosbie



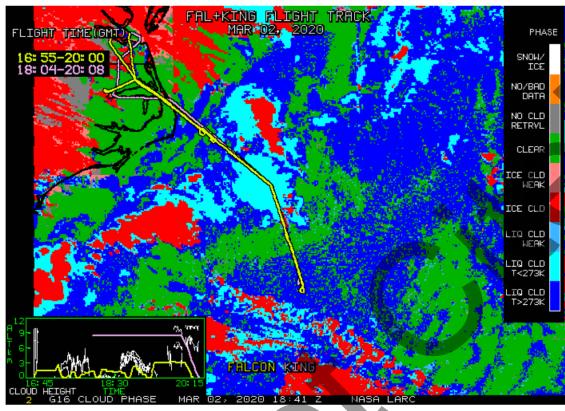


NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 15, 18:41 UTC Mar 02, 2020 (near middle of flight)

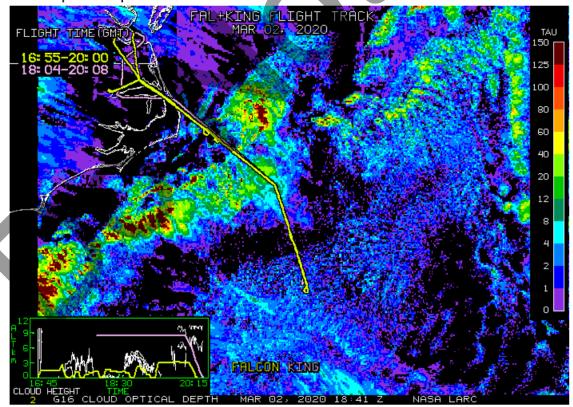
Visible Image



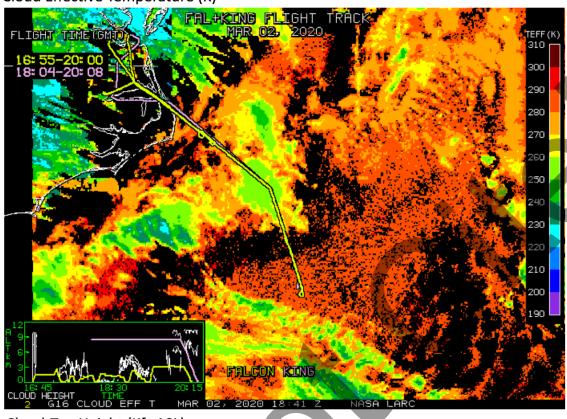
**Cloud Phase** 



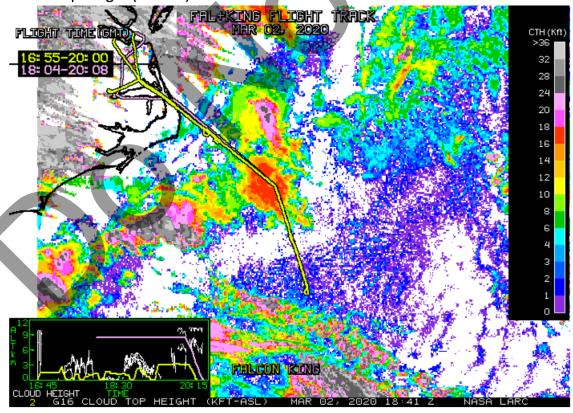




Cloud Effective Temperature (K)







Liquid Water Path (gm-2)

CLOUD HEIGHT

