Flight Scientist Report Sunday 02/23/2020 ACTIVATE RF07

Flight Type: Statistical Survey Flight - Clouds Flight Route: OXANA to 33.468/-70.297

Special Notes: King Air down due to maintenance

King Air

NA

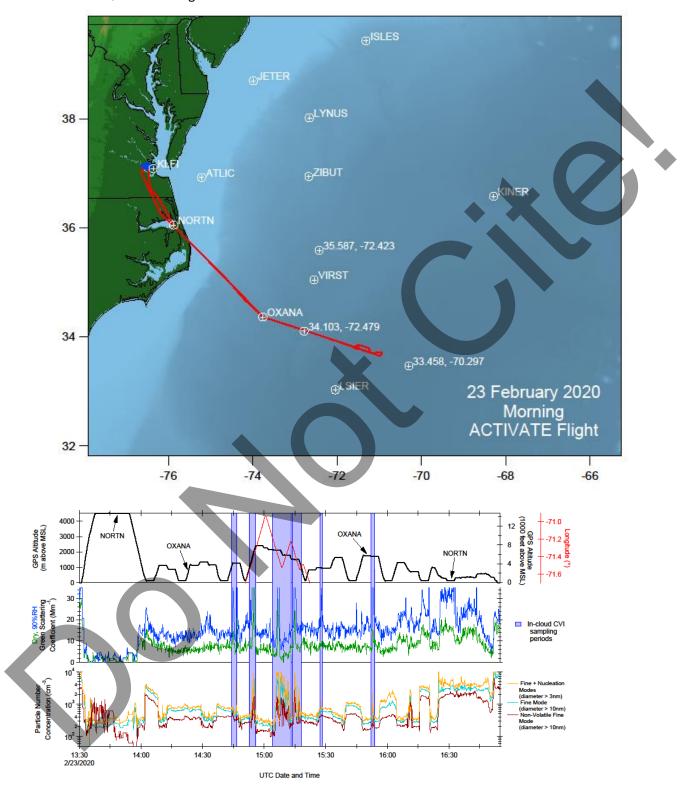
Falcon

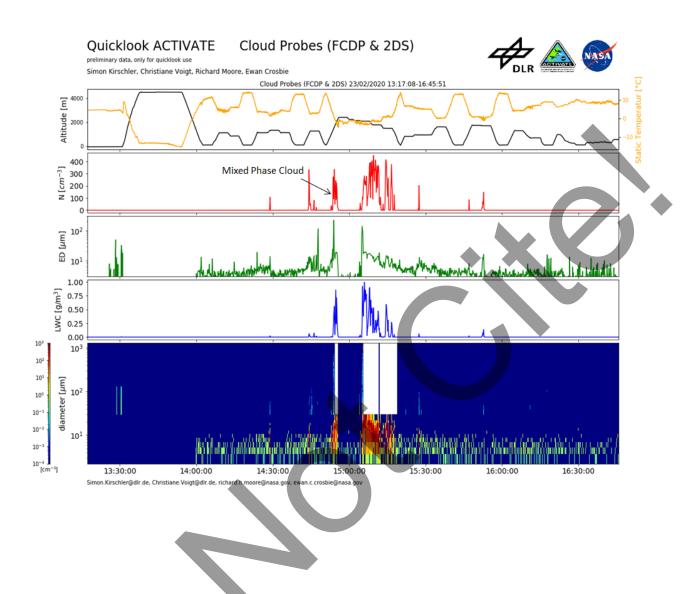
- Transit out high was a bit longer than normal
- Did clear stat survey out.
- First cloudy stat survey started when there was scattered cloud and stayed complicated as clouds stayed broken/scattered; limited ACB time in actual clouds; swapped order of MINALT and 2nd ACB to hit MINALT during clear patch; profile noted to be good in cloud; there was an impressive band of clouds during this ensemble nearby but we didn't hit it and was visually observed from plane; turned early during this ensemble at end of ACT to maximize in-cloud time for BCT leg and that bought ~10 extra min to do a mini-wall
- Way back was more traditional except that for 2nd cloud stat survey, the ACB leg was above the boundary layer; even though on 2nd cloud survey we executed it as normal, we got low in-cloud time.
- On way back it was noted that the MBL shallowed a lot closer to land with colder water
- End of flight included bonus time characterizing the MBL at low altitudes

Instruments:

Not much reported – all fine

Rich Moore Quicklook Images:

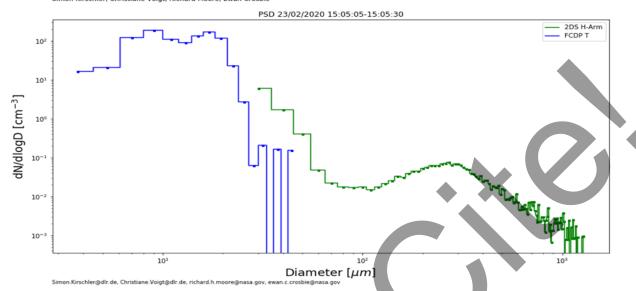




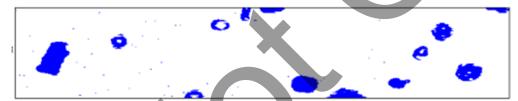
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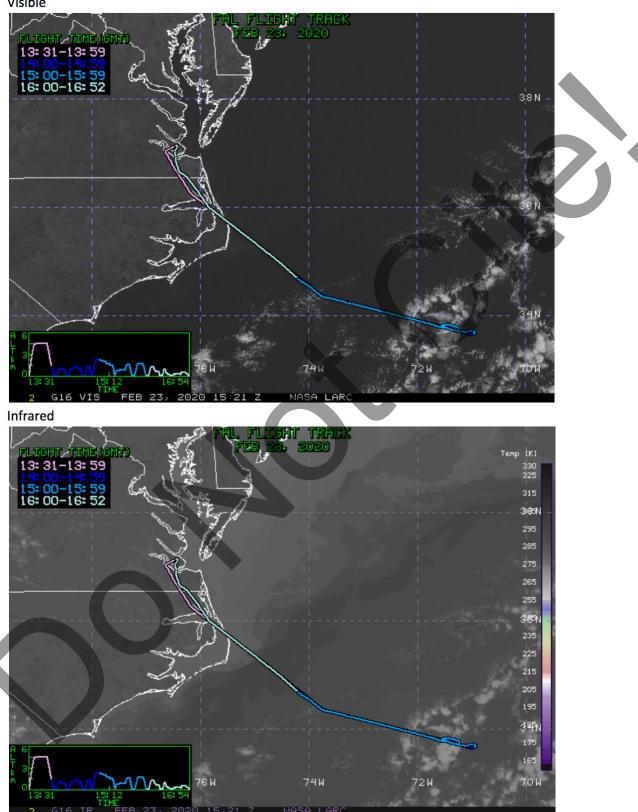


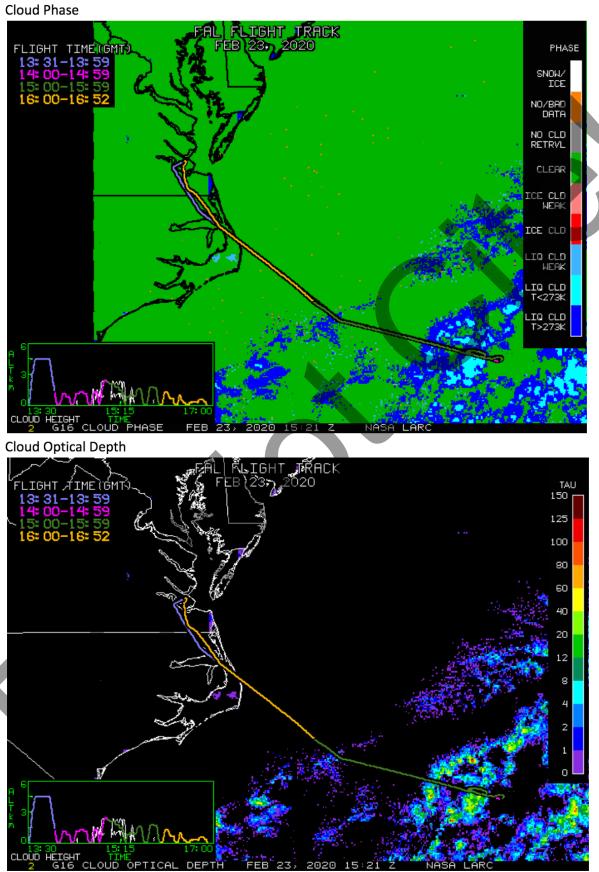


Mixed Phase Cloud: 14:53:58



Satellite Group GOES-16 Images (near middle of flight): Visible





Cloud Effective Temperature (K) FLIGHT JARACK EB 237 2020 TEFF (K) 290 280 Cloud-Top Height (Kft-ASL) CTH (Kft) >36 24 20 16 10

