Flight Scientist Report Tuesday 09/29/2020 ACTIVATE RF39

Flight Type: Process Study Flight: Zibut to the north

Flight Route: KLFI ATLIC ZIBUT 3656N07125W ZIBUT ATLIC KLFI

Special Notes:

Focusing on "Type B" clouds today

Today represents a case of it being as far as possible to still do a process study flight. Had to adapt to where the type B clouds were.

King Air

Flight went well and encountered some thick layers on the ascent. Chat was down.

A few instrument issues but at times when it wasn't a major issue.

13 dropsondes today

Falcon

Flight went well according to pilots

Eddie found a leak during ascent and fixed it around ~8 min after takeoff

High humidity today so had trouble drying the dry-neph

CCN flows looked ok early in flight but at times they were noisier than past flights (eddie thinks usable)

Did an APU test at end of flight, and it was successful.

Ewan noted overall that we pulled off the summertime process study flight well.

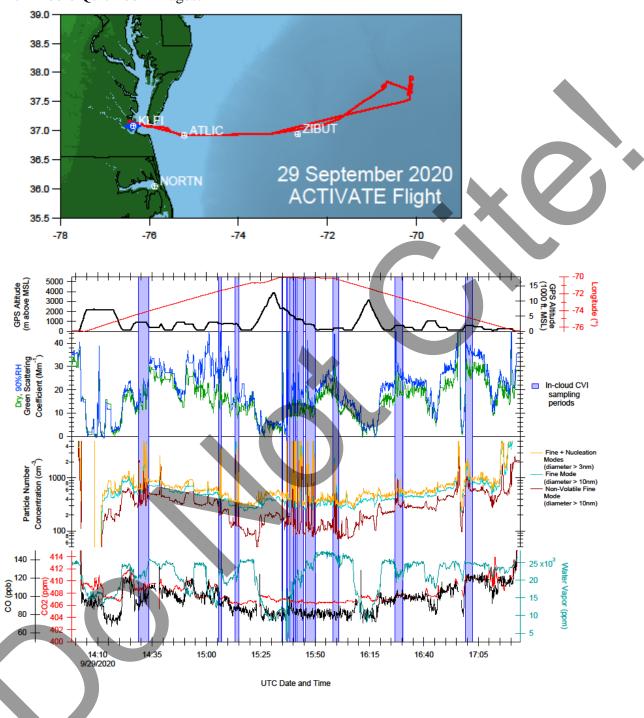
Got 3 clear modules on way to the station area.

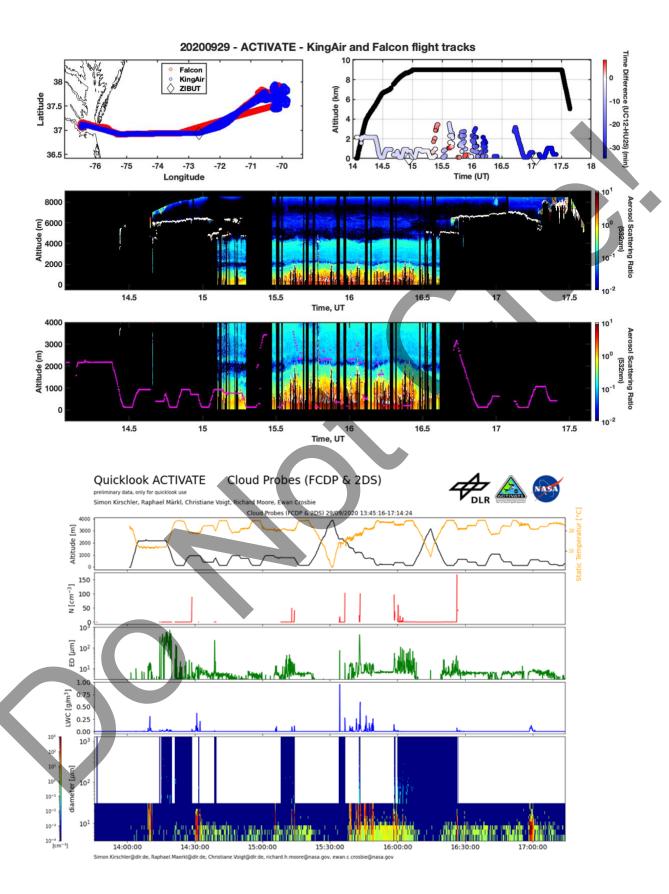
Did clear spiral first since had a hard time picking place to do our process study

Got cloudwater samples

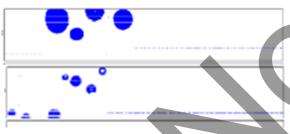
Got a clear ramp at the end

Rich Moore Quicklook Images:

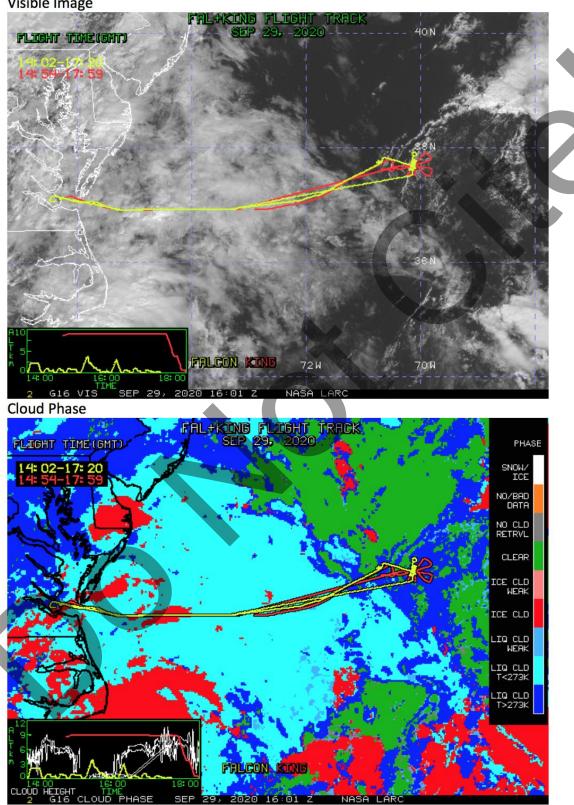








NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 39, 1601 UTC Sep 29, 2020 Visible Image



Cloud Droplet Number Concentration (cm-3)

