

**07/08/2017 19:00 UTC**

The following graphs represent the coordinated launch for Langley Research Center (LaRC; 37.1024, -76.3929) and the Chesapeake Bay Bridge Tunnel 3<sup>rd</sup> Island (CBBT; 37.0366, -76.0767) on 07/08/2017 at approximately 19:00 UTC with initial wind blowing approximately from the west-southwest. This launch coordinated with the GeoTASO Flights. Preliminary analysis suggests a probable boundary layer around 1800 m at LaRC and approximately 1600 m at CBBT. Potential temperature is in close agreement between CBBT and LaRC in the first 1000 m, with both sites showing similar profiles from 1000 m to 5000 m, with CBBT showing slightly higher potential temperature (1 K) from 1400 m to 2800 m and LaRC showing slightly higher potential temperature from 4100 m to 5000 m.

Preliminary observations suggest similar ozone mixing ratio above CBBT and LaRC with slight variations. Ozone mixing ratio above CBBT appears to have substantially increased from 40 ppbv to 65 ppbv in the first 250 m, while LaRC appears to have had approximately uniform ozone mixing ratio in the first 1000 m (~55 ppbv). LaRC and CBBT generally increased linearly from 1000 m to 2500 m with CBBT showing slightly higher ppbv. The remaining 2500 m to 5000 m showed approximately uniform ppbv for both sites, fluctuating around 65 ppbv.

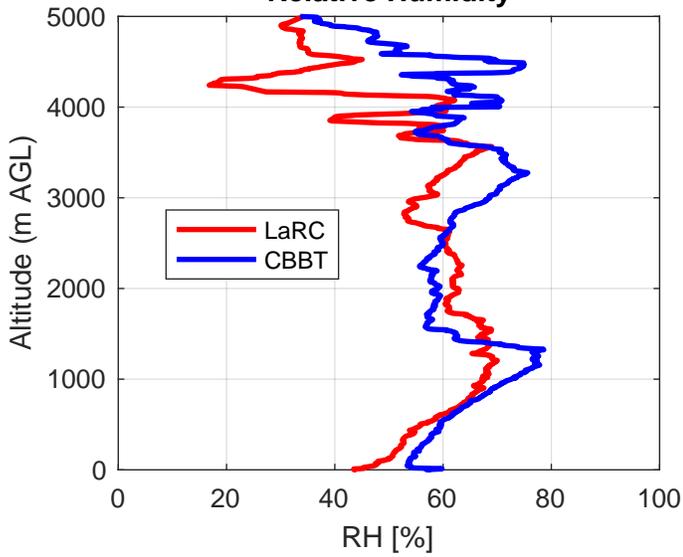
**PLEASE NOTE:** This data is preliminary and should not be used for official business until certified by NASA technical staff.

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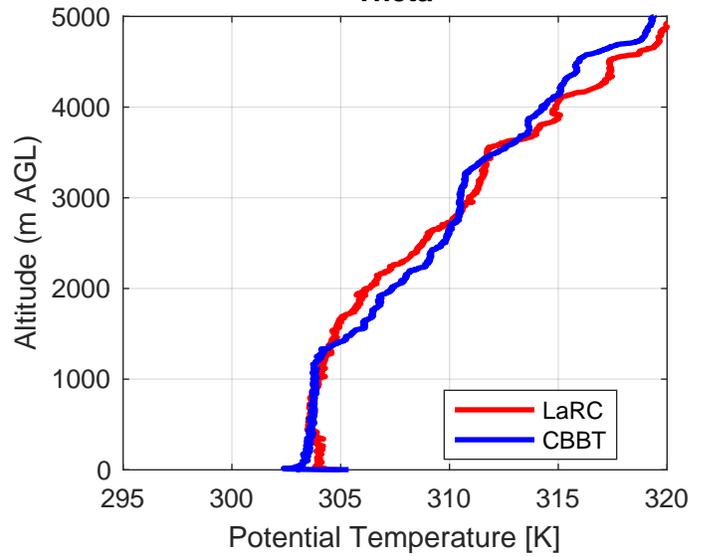
CBBT Sonde POC: Travis Knepp ([travis.n.knepp@nasa.gov](mailto:travis.n.knepp@nasa.gov))

# Sonde Data: 07/08/2017 19:10 UTC (LaRC) and 19:01 UTC (CBBT)

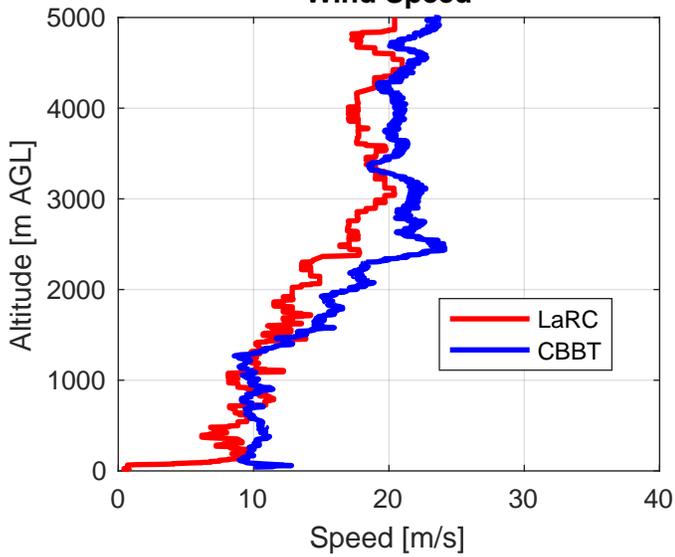
## Relative Humidity



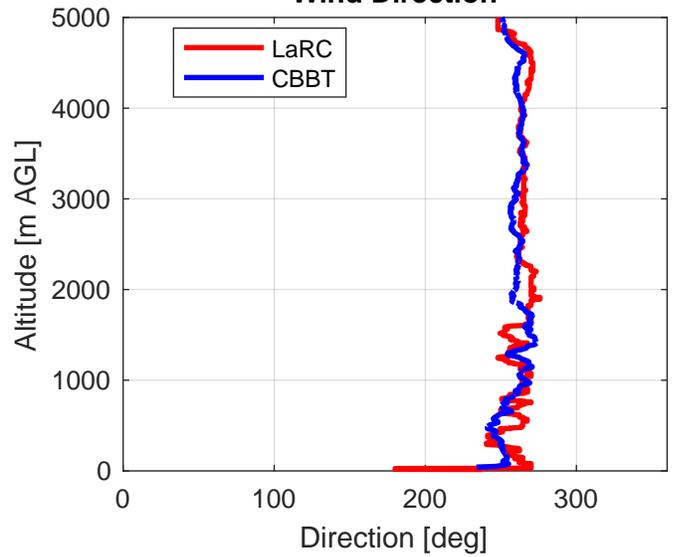
## Theta



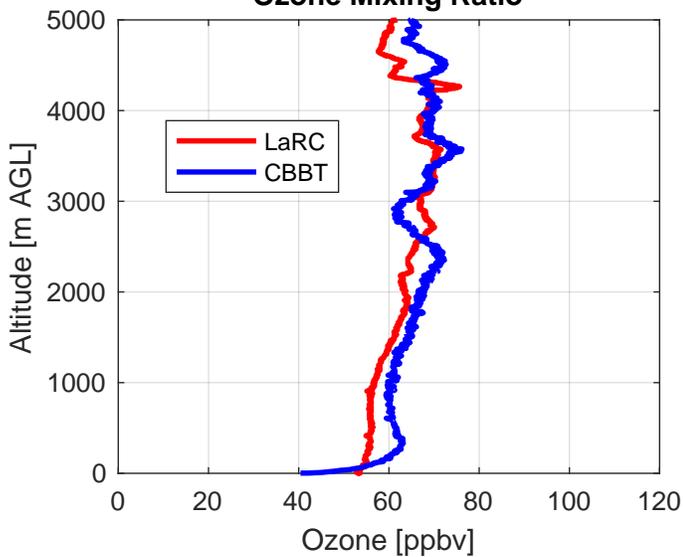
## Wind Speed



## Wind Direction



## Ozone Mixing Ratio



## Ozonesonde Map [ppbv]

