July 1st, 2018, 17:15 UTC

The following graphs represent the triple coordinated launch for the University of Maryland – Baltimore County supersite (UMBC: 39.2543, -76.7093), the Hart Miller Island supersite (HMI: 39.24219, -76.36279), and Howard University: Beltsville (HUBV: 39.056, -76.876) on July 1st, 2018 at approximately 17:15 UTC. The lack of a boundary layer over water is mirrored in the volatility of the ozone profile through the first 1.5 km.

The land sites have lower ozone in general and a more stable profile owing to a well-mixed early-afternoon boundary layer. In the bottom 500 m of the HMI profile, high ozone could be due to southeasterly flow from the polluted Sparrows Point.

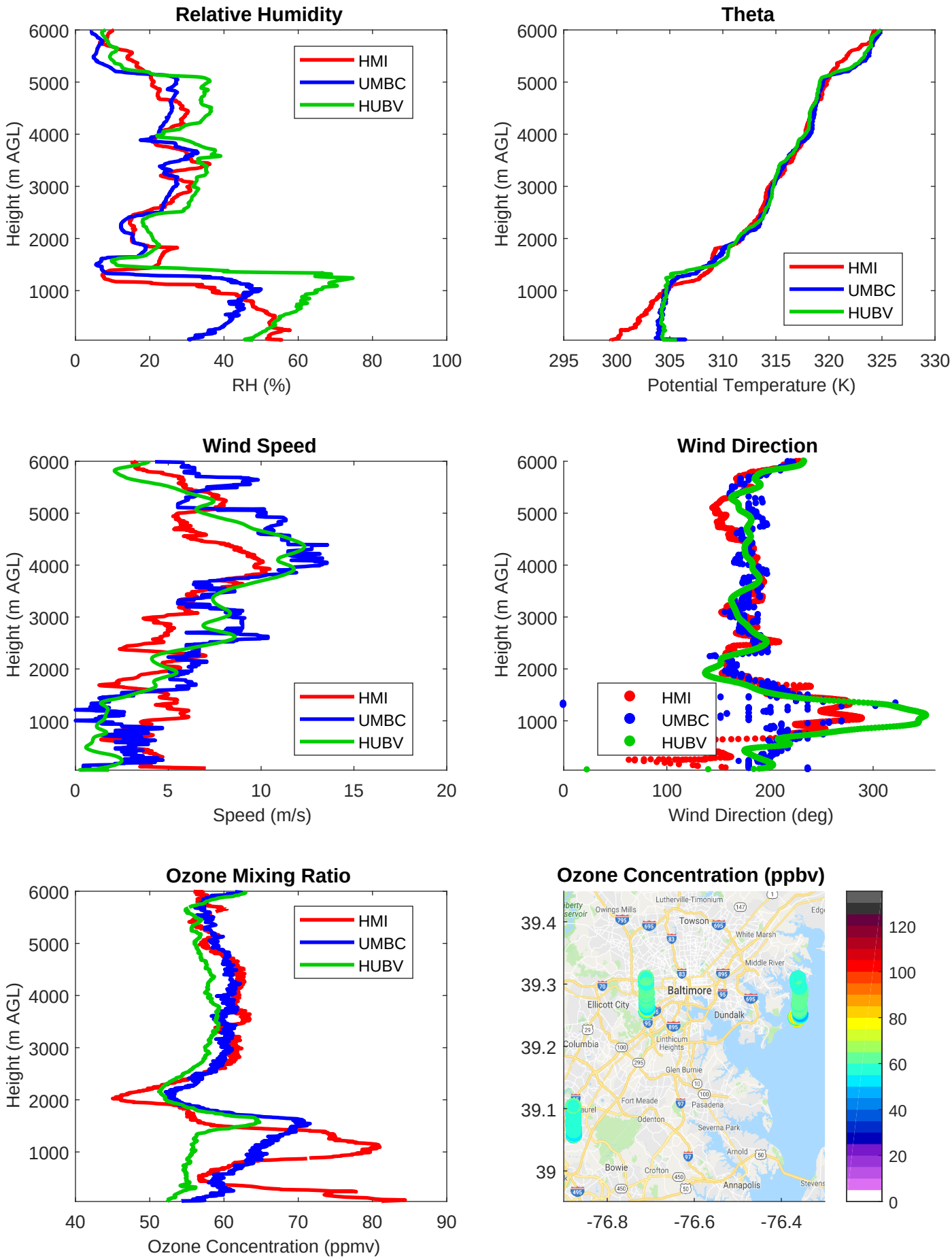
PLEASE NOTE: This data is preliminary and should not be used for official business.

UMBC Sonde POC: John Sullivan (john.t.sullivan@nasa.gov)

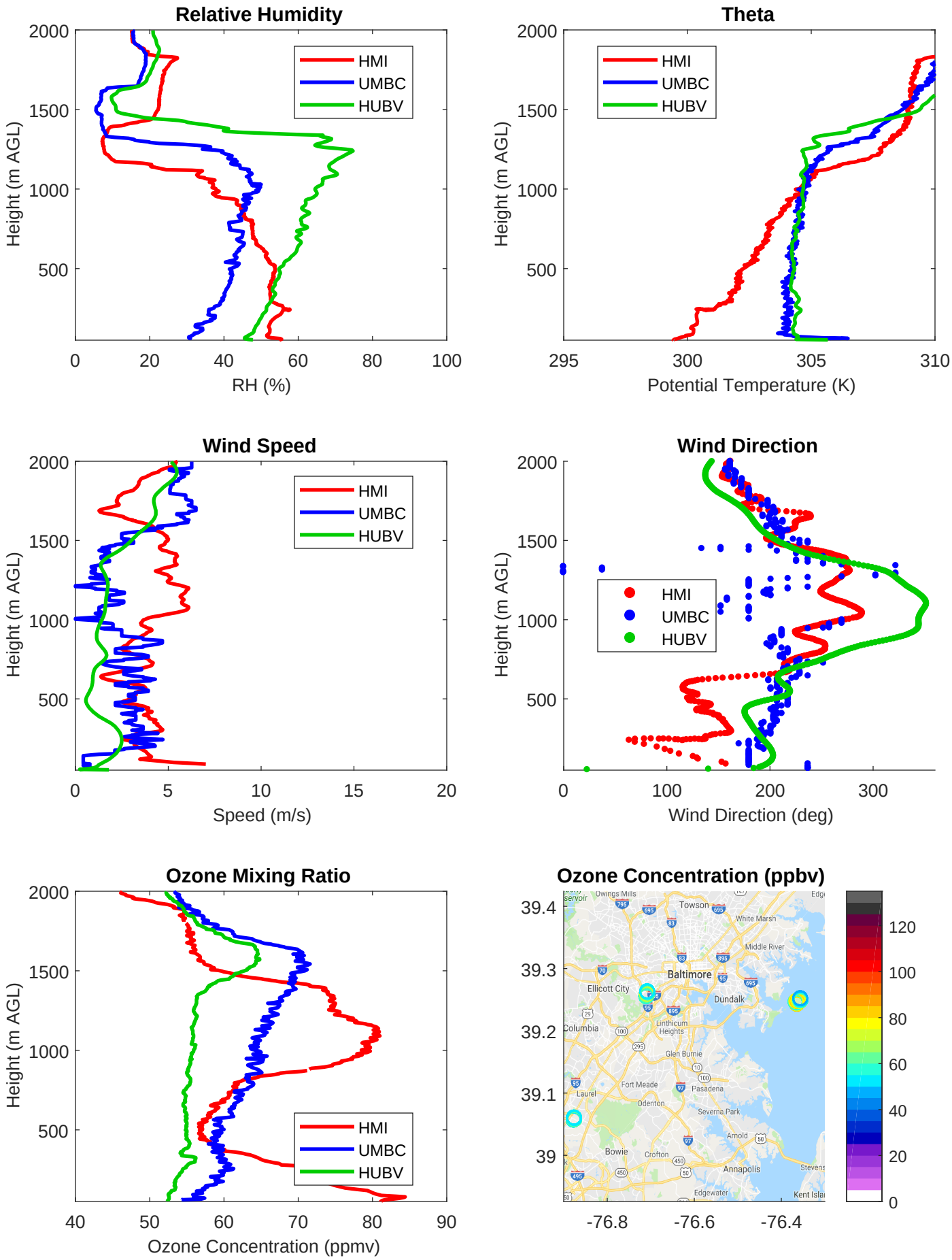
HMI Sonde POC: Lance Niño (lwn4@cornell.edu)

HUBV Sonde POC: Ricardo Sakai (ricardo.k.sakai@howard.edu)

Ozonesonde launched July 1st, 2018 at 17:16 (HMI), 17:19 (UMBC), and 17:16 UTC (HUBV) [0-6 km]



Ozonesonde launched July 1st, 2018 at 17:16 (HMI), 17:19 (UMBC), and 17:16 UTC (HUBV) [0-2 km]



July 1st, 2018, 20:00 UTC

The following graphs represent the coordinated launch for the University of Maryland – Baltimore County supersite (UMBC: 39.2543, -76.7093) and the Hart Miller Island supersite (HMI: 39.24219, -76. 36279) on July 1st, 2018 at approximately 20:00 UTC. Generally higher ozone and a more chaotic profile through the first 1.5 km is associated with the lack of a clear boundary layer over water.

Surface winds were blowing out of the south at 12 m/s at HMI, consistent with a late afternoon bay breeze. Compared to earlier in the morning, high ozone over HMI had reduced in part to a shift in wind direction from the SE to S. In the free troposphere, moderate ozone of 60 ppbv from 3-6 km was seen at both sites. This was the third day in a four-day ozone event which saw 24 ozonesonde launches across three sites.

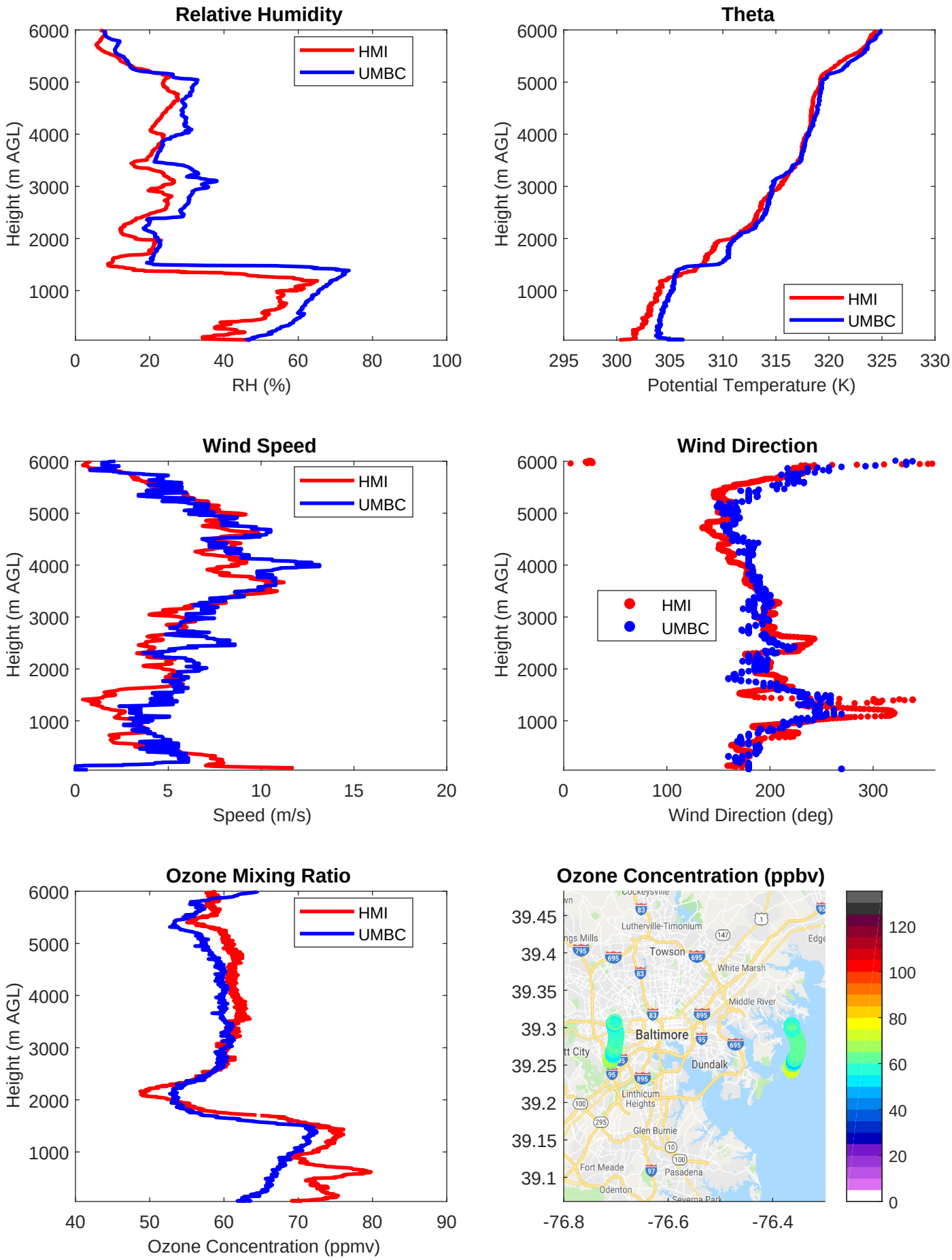
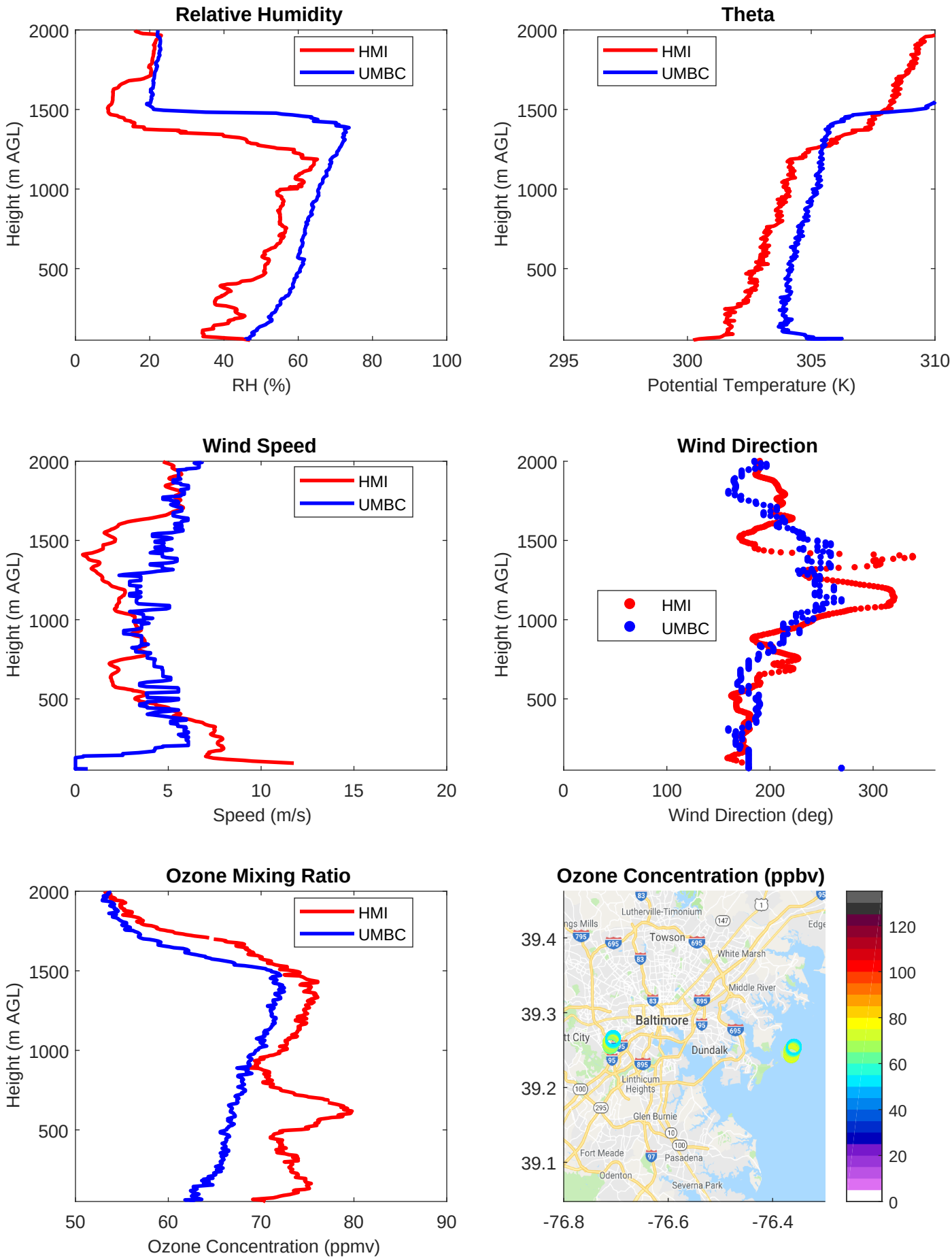
PLEASE NOTE: This data is preliminary and should not be used for official business.

UMBC Sonde POC: John Sullivan (john.t.sullivan@nasa.gov)

HMI Sonde POC: Lance Niño (lwn4@cornell.edu)

HUBV Sonde POC: Ricardo Sakai (ricardo.k.sakai@howard.edu)

Ozonesonde launched July 1st, 2018 at 20:02 (HMI) and 20:03 UTC (UMBC) [0-6 km]



Ozonesonde launched July 1st, 2018 at 20:02 (HMI) and 20:03 UTC (UMBC) [0-2 km]