June 7th, 2018, 17:00 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 June 7th, 2018 at approximately 17:00 UTC with initial wind blowing from the south. Preliminary analysis from both sondes shows a sharp 90 ppbv ozone layer centered at 2.5 km resting above the 2-km boundary layer over land and a possible stratospheric intrustion between 6-9 km.

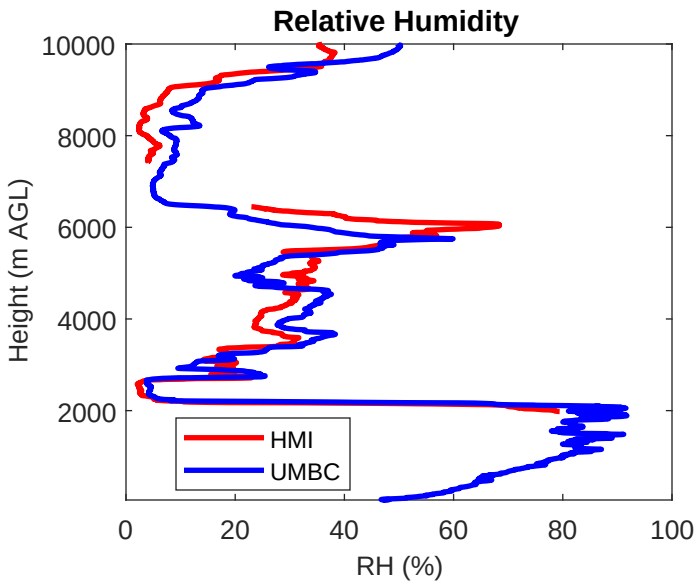
Meteorological data for the HMI sonde was not received for the lowest 2 km and for a period between 6-8 km because the radiosonde overheated on the ground. Currently, we believe this did not affect the ozone retrieval. In the lowest 2 km, Ozone mixing ratio increased gradually from 50-60 ppbv within the boundary layer on land. From 2-6 km, ozone mixing ratio fluctuates between 50-90 ppbv, but both sondes show qualitative and quantitative agreement. From 6-10 km, ozone mixing ratio increases and relative humidity decreases sharply, indicative of stratospheric air in the troposphere.

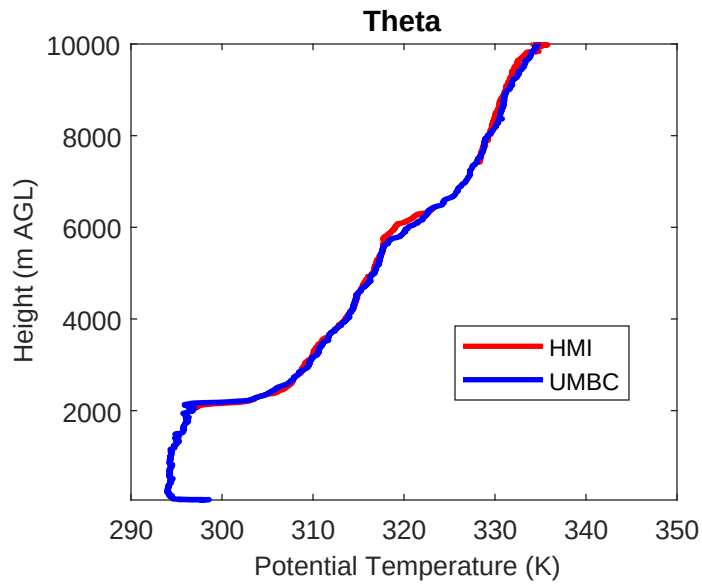
PLEASE NOTE: This data is preliminary and should not be used for official business.

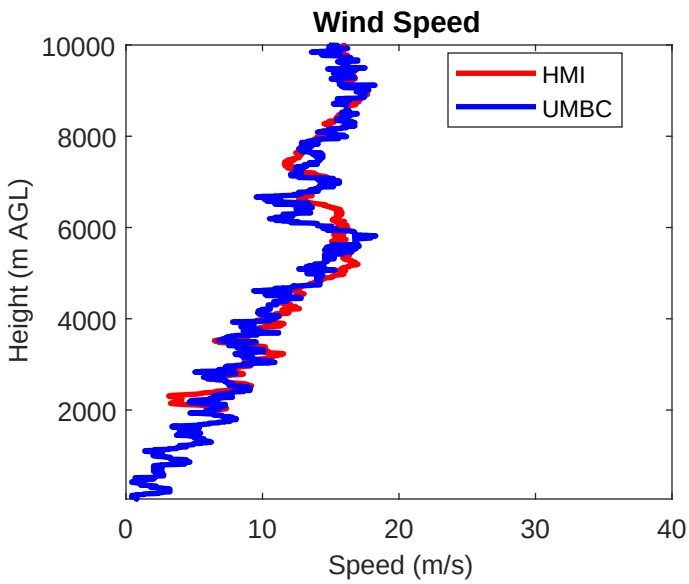
UMBC Sonde POC: John Sullivan (john.t.sullivan@nasa.gov)

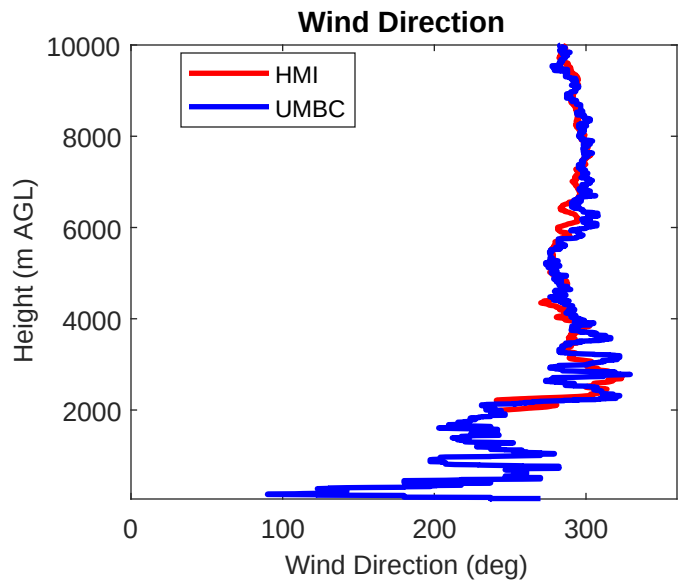
HMI Sonde POC: Lance Niño (lwn4@cornell.edu)

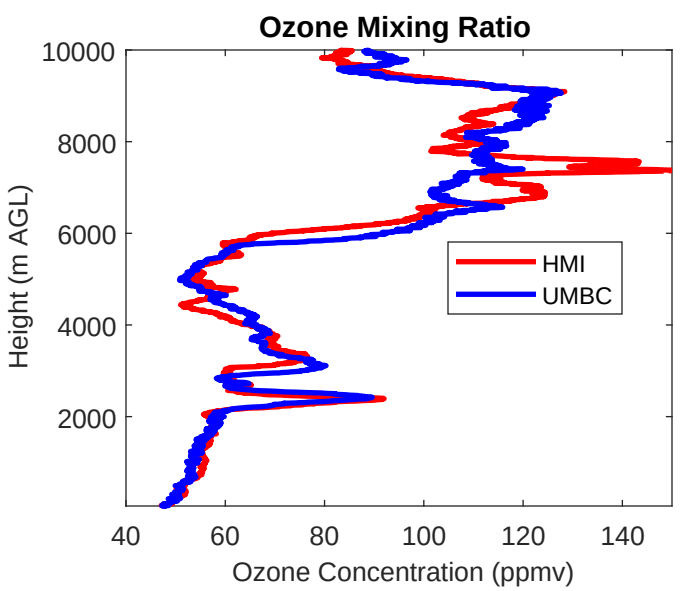
Sonde Data: June 7th, 2018 at 17:02 UTC (HMI) and 17:02 UTC (UMBC) [0-10 km]

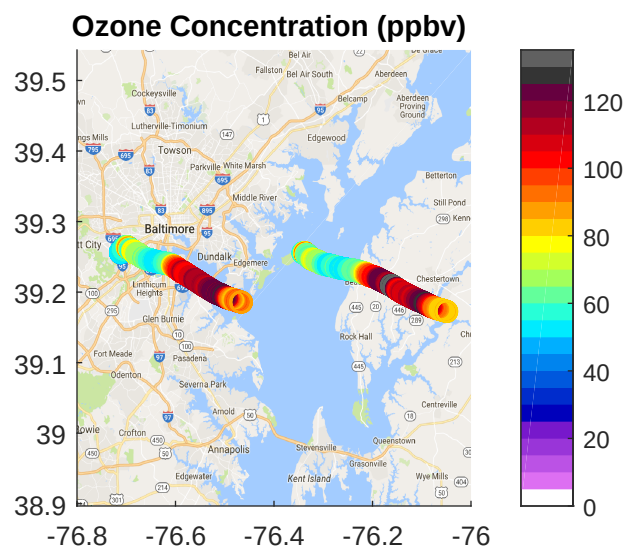
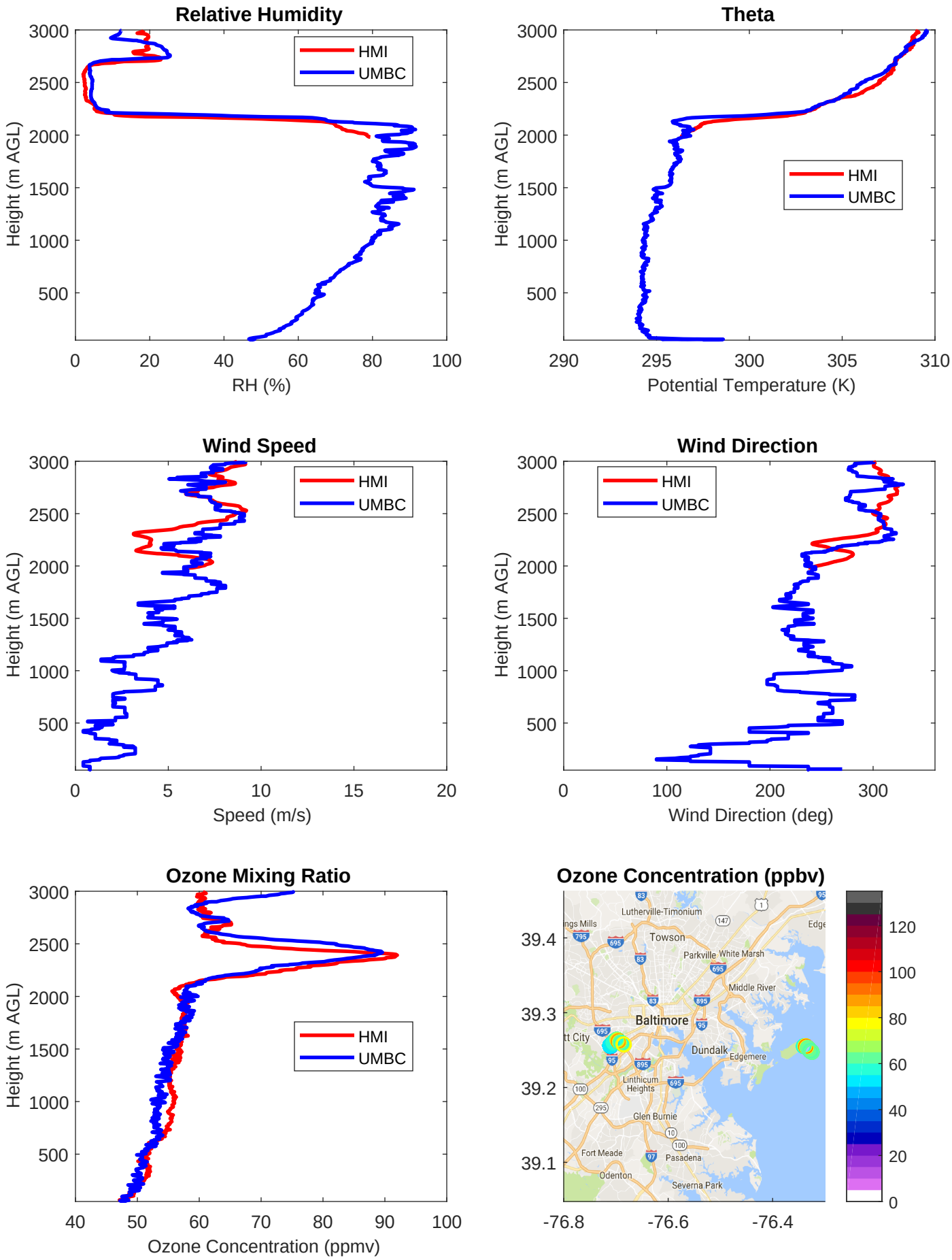












Sonde Data: June 7th, 2018 at 17:02 UTC (HMI) and 17:02 UTC (UMBC) [0-3 km]