

DISCOVER-AQ Outlook for Sunday, July 3, 2011

Despite a forecast high-temperature day tomorrow in the Baltimore-Washington area, considerable cloud cover will prevent ozone from reaching the high values seen today. Code Yellow ozone is forecast for tomorrow in the Baltimore area and borderline Code Yellow/Orange in the DC area. The GEOS-5 aerosol forecast brings considerable smoke aerosol into the region on Sunday with AOT possibly reaching values over 1.0. However, cloud cover may prevent us from seeing much of this aerosol plume. The NAM model produces broken to overcast high clouds in the morning and the possibility of thunderstorms in the afternoon. These clouds and possible storms are associated with a frontal system approaching from the west. Therefore, we have decided not to fly on Sunday. The front will stall just to the southeast of the DC area, and will lead to continued high cloudiness on Monday. Therefore, tomorrow we will need to revisit the forecast for Monday, July 4.