

DISCOVER-AQ Outlook for Wednesday, July 13, 2011

We will not fly tomorrow (Wednesday) as clouds may become an issue, though this is far from certain. The models do not agree on cloudiness likely because of uncertainty associated with the location of a short wave at 500 mb and a surface trough. Air quality should be reasonably good as a front passes through the mid-Atlantic Tuesday night/ Wednesday morning. The next likely “fly day” is Thursday which should feature clear skies, northerly winds, and clean air as a Canadian air mass settles over the mid-Atlantic. In addition, TES will be making a special observation (Beltsville).

Recommendations for July 13th-16th

July 12th, Today: Would have been a good fly day.

July 13th, Wednesday – No Fly: Could fly in morning.
Clouds iffy in afternoon.

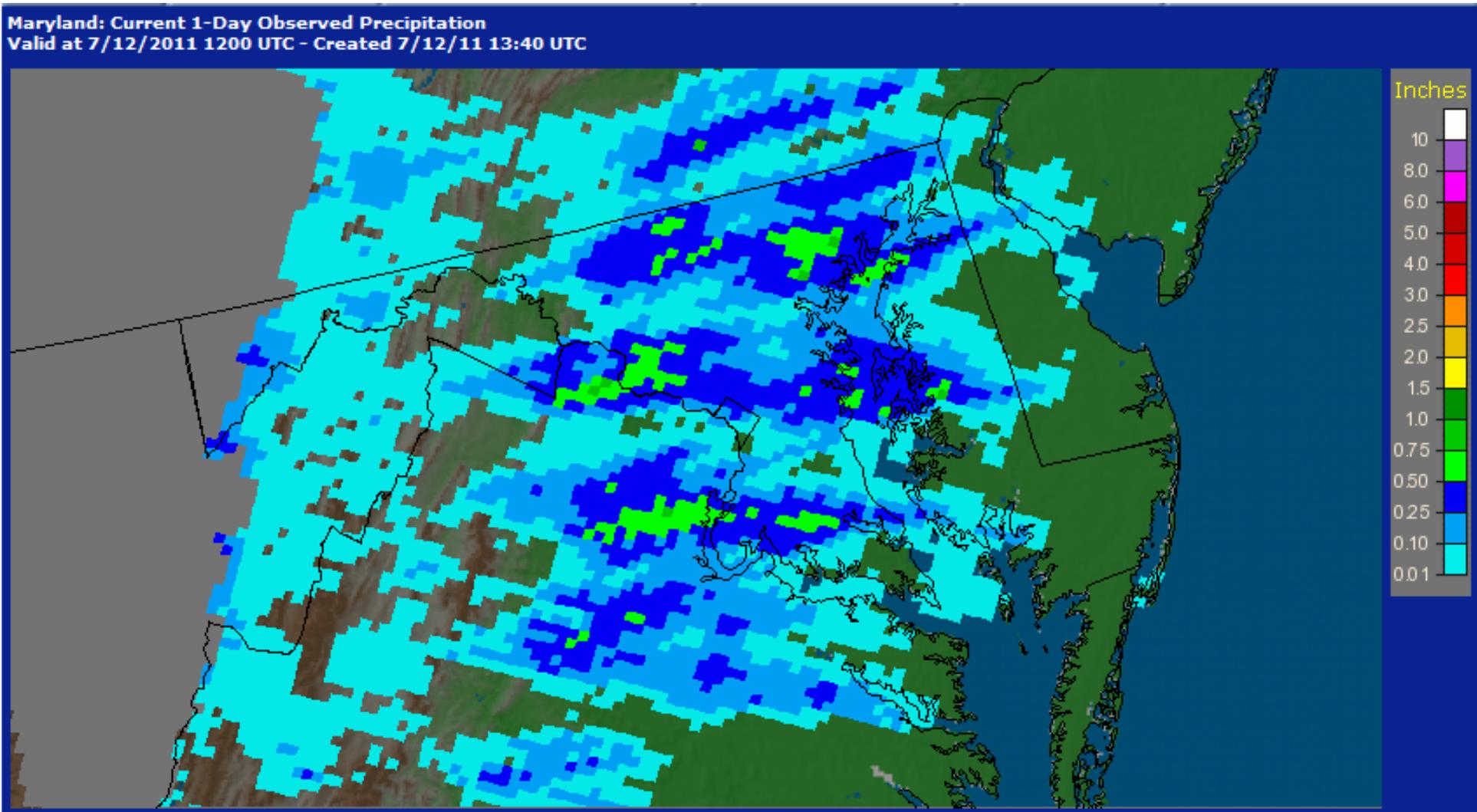
July 14th, Thursday – Fly ~8 am departure: Clean, post-cold front day. TES special obs. BORTAS begins.

July 15th, Friday - Fly: Keep an eye on cloud forecast.

July 16th, Saturday: Keep an eye on cloud forecast. TES special observation.

Thunderstorms passed through DC area last night.

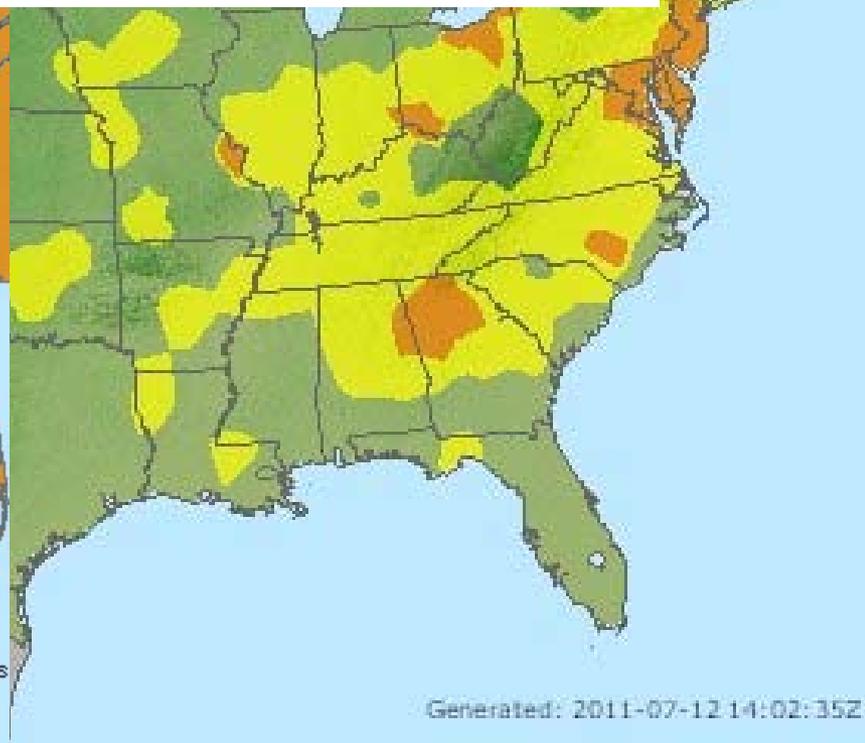
Boundary layer likely ventilated.



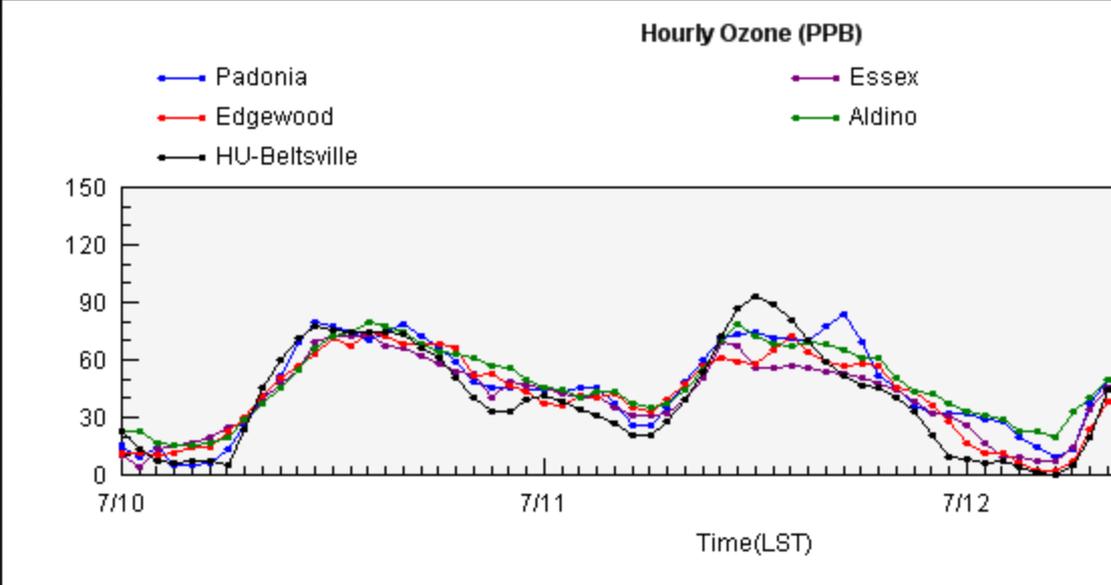
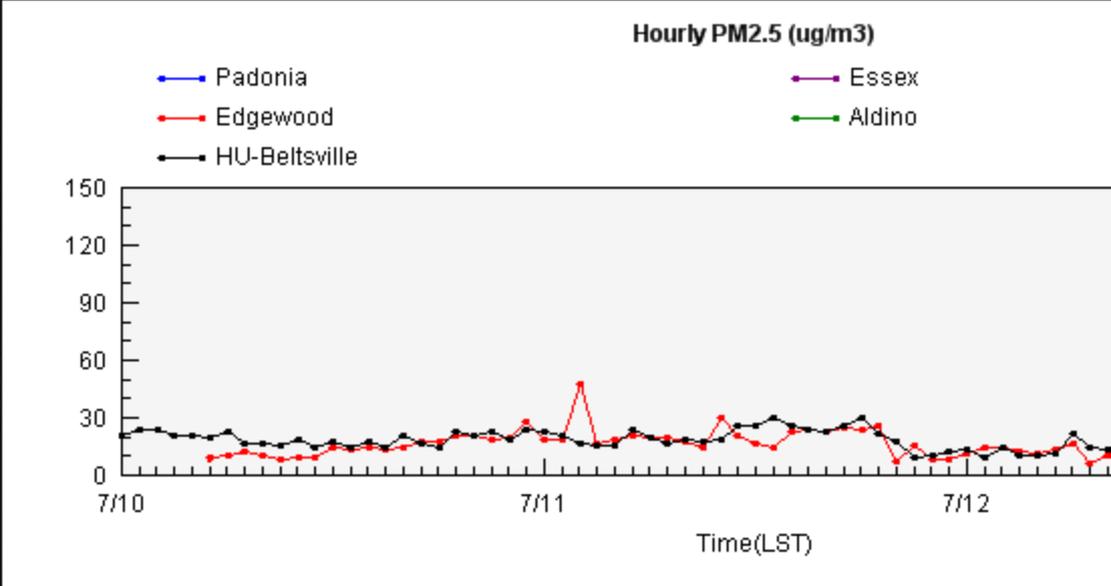
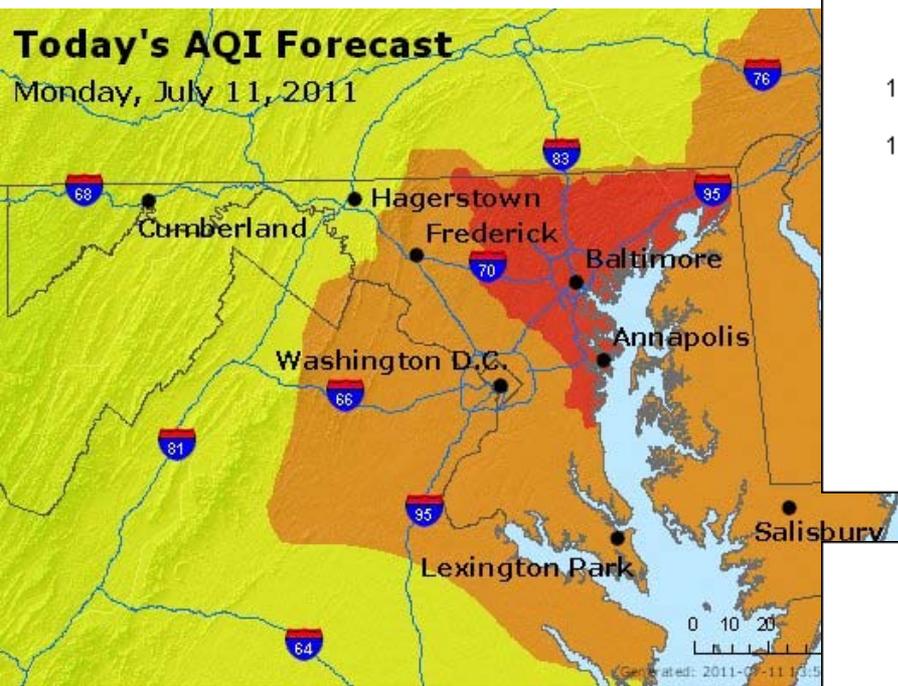
Code Orange air quality alerts in Mid-Atlantic & widespread pollution in East.

Today's AQI Forecast
Tuesday, July 12, 2011

Hasn't materialized as of 3pm. Beltsville, PG Equest. Cent., Fairhill – code yellow (low 50s). Heat advisory cancelled – low 90s.



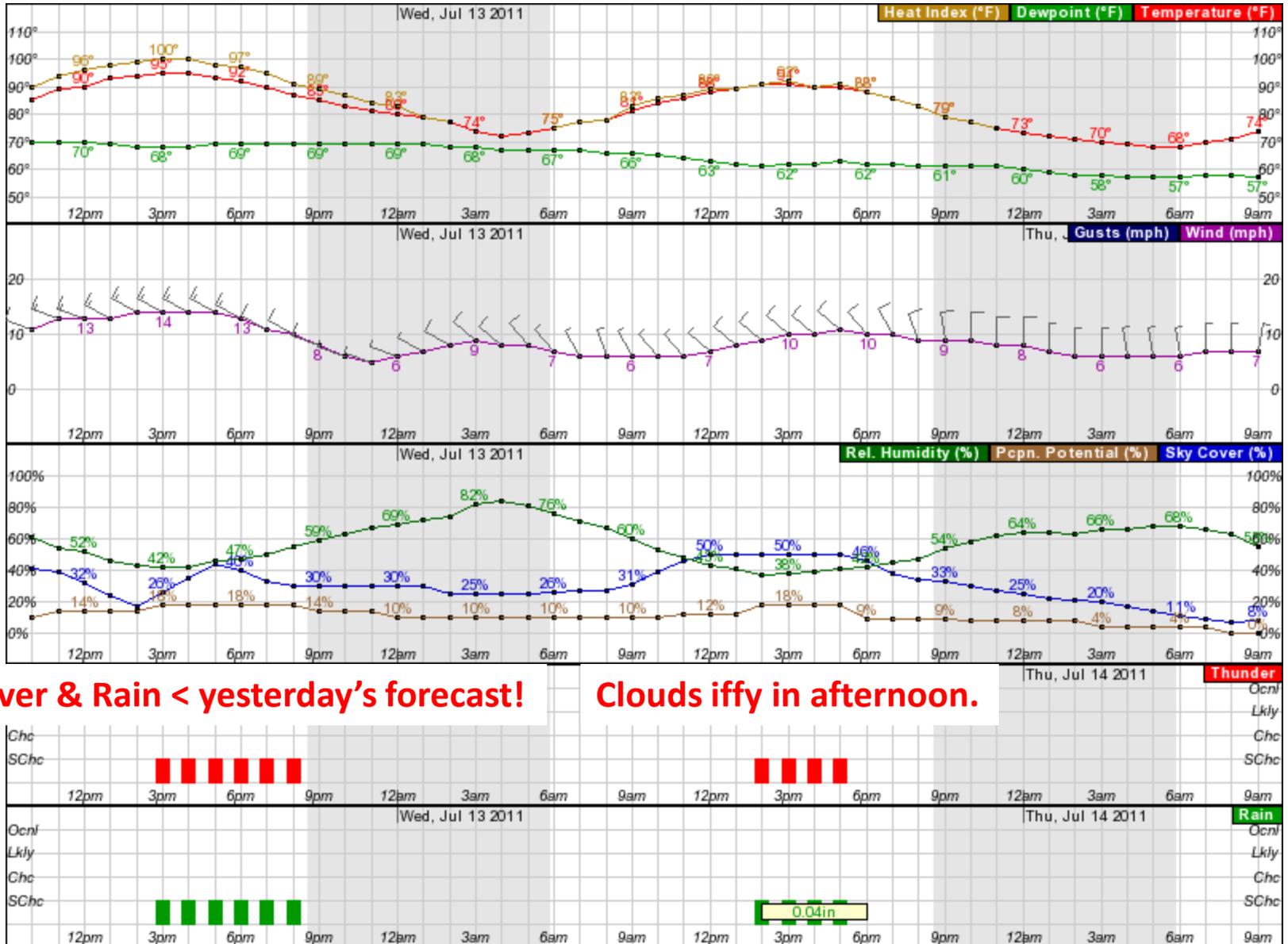
Code Red forecasted Monday! – Didn't materialize.



Tuesday →

Wednesday →

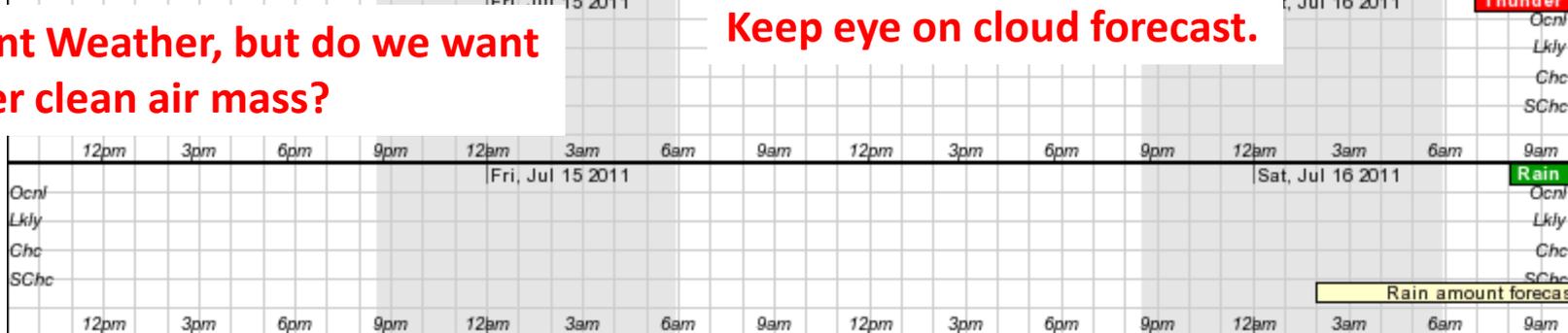
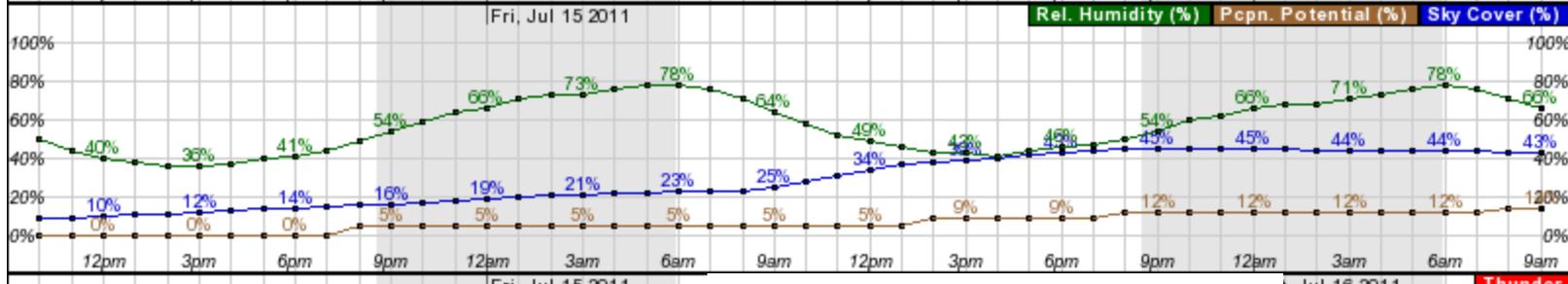
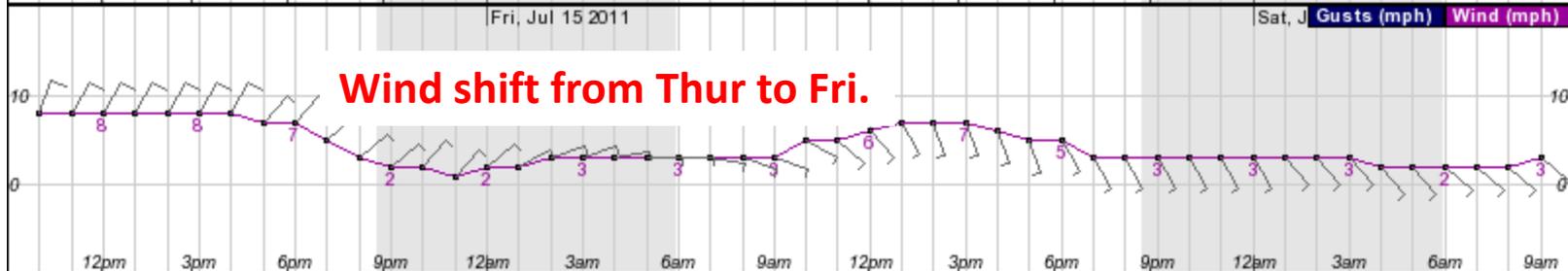
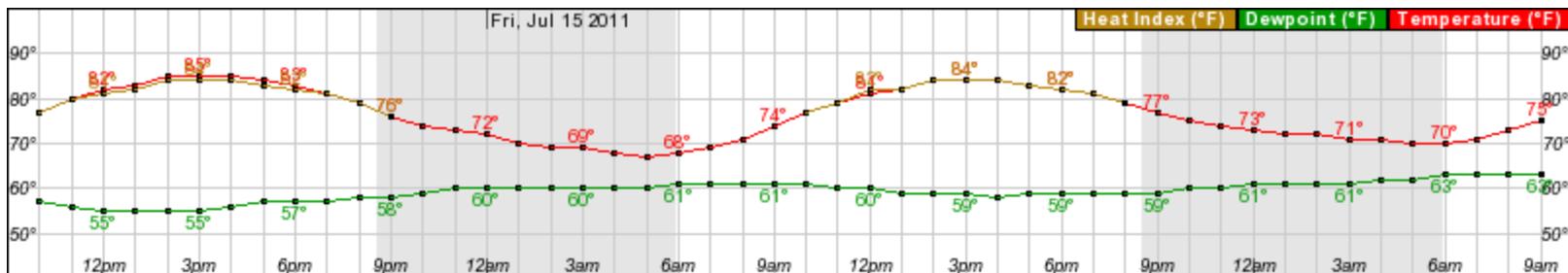
Thurs. →



Thurs. →

Friday →

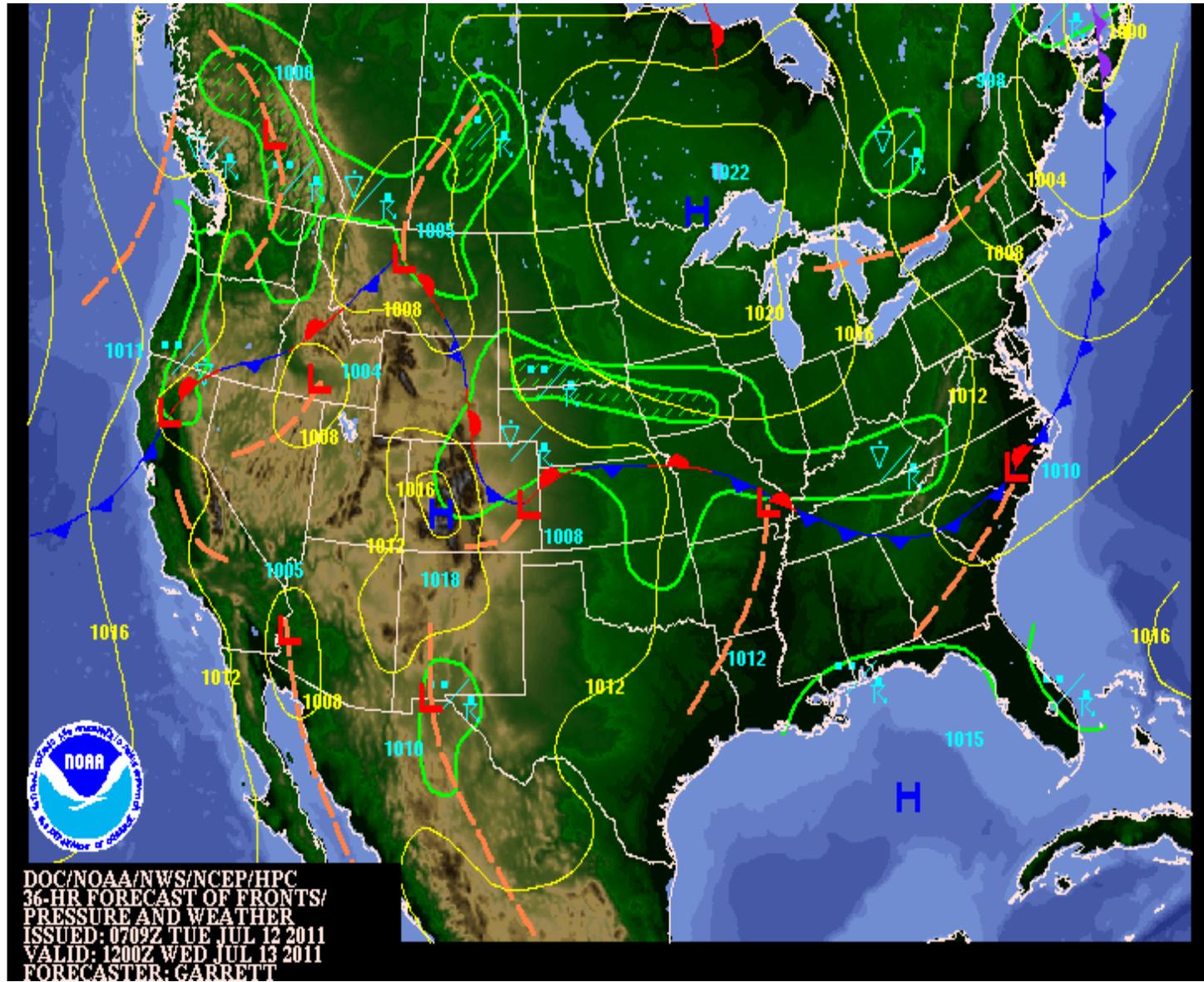
Saturday →



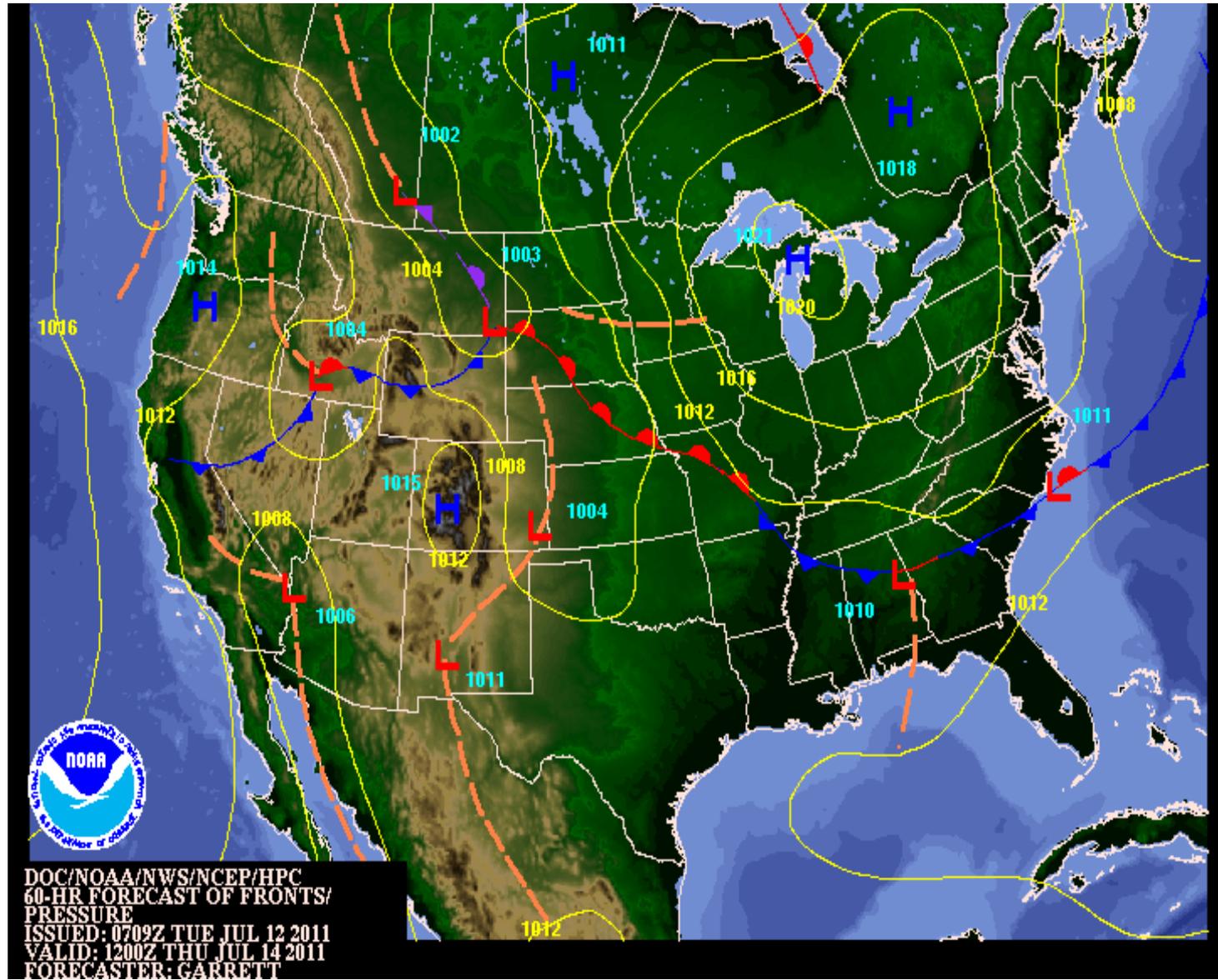
Pleasant Weather, but do we want another clean air mass?

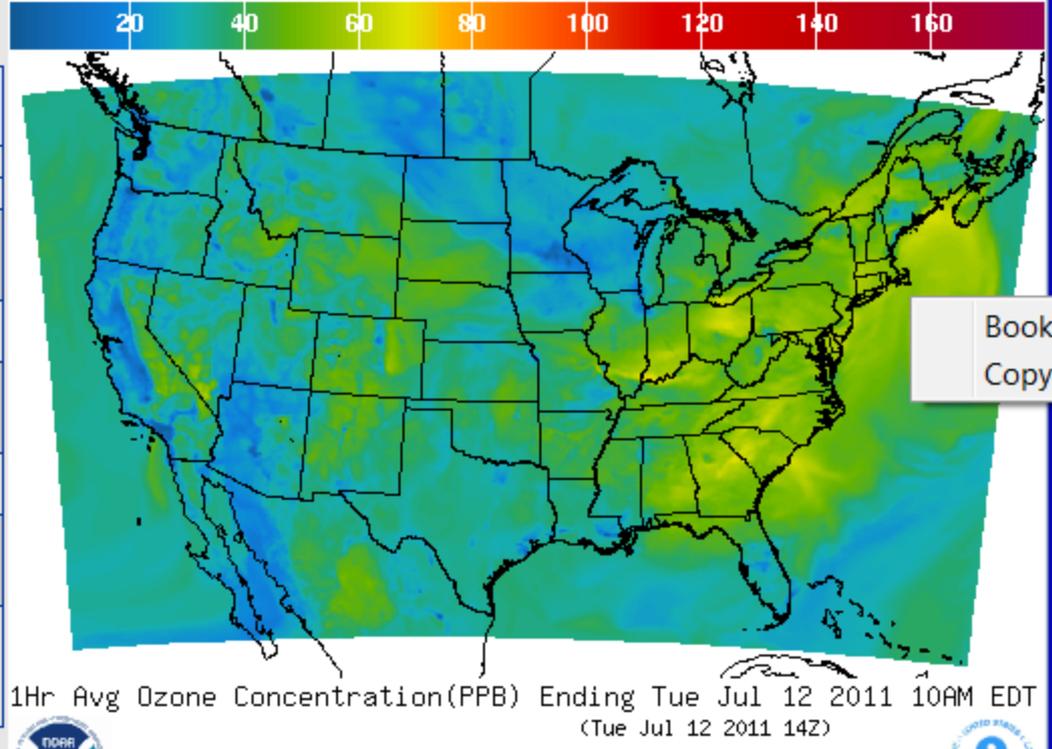
Keep eye on cloud forecast.

Wednesday: Cold front passes through region
Tuesday night/early Wednesday morning.

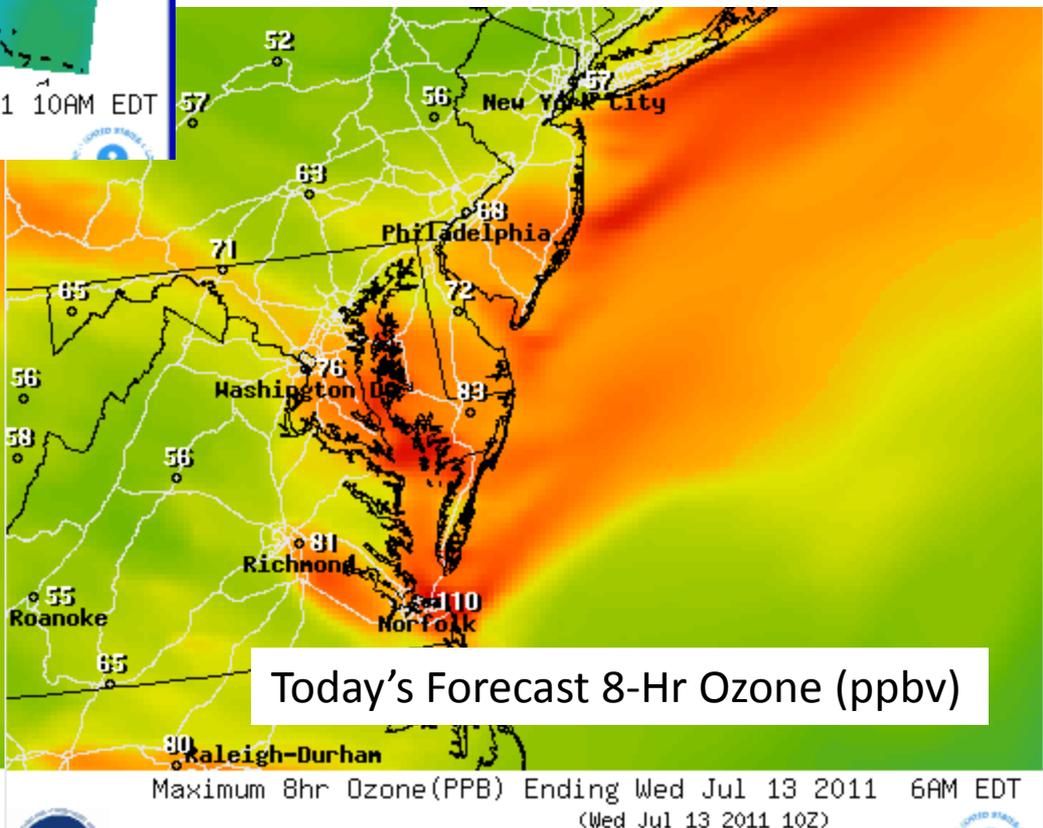
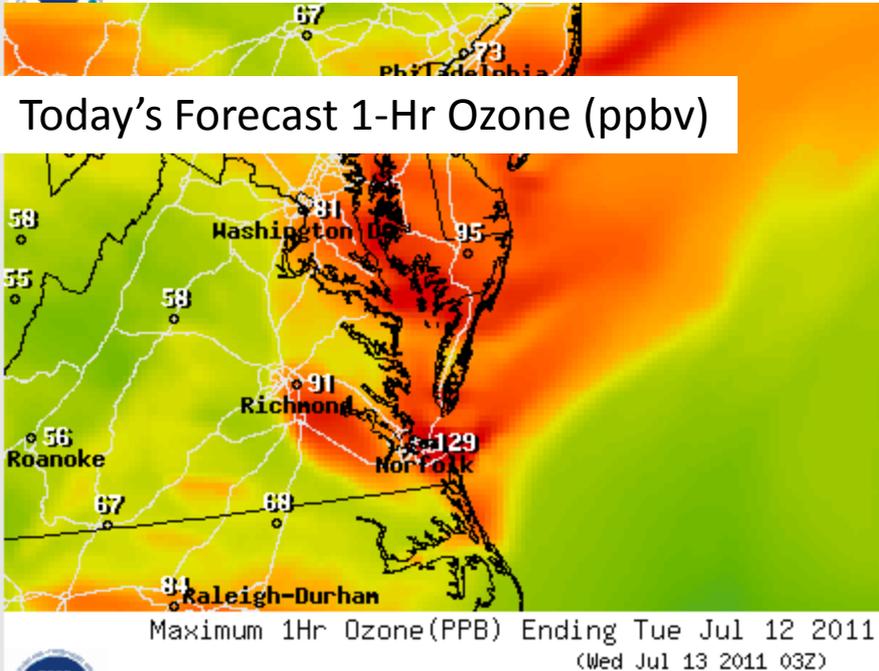


Thursday: High pressure builds into region again;
clear skies. Temps. much cooler however.



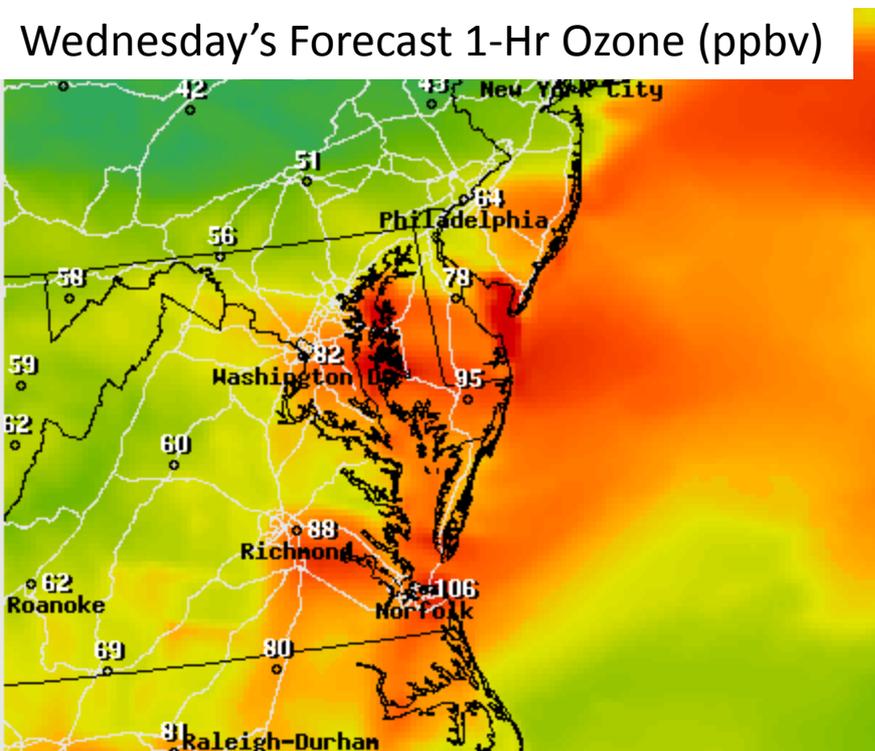


Outflow of pollution toward BORTAS (starts Thursday) study region occurring.

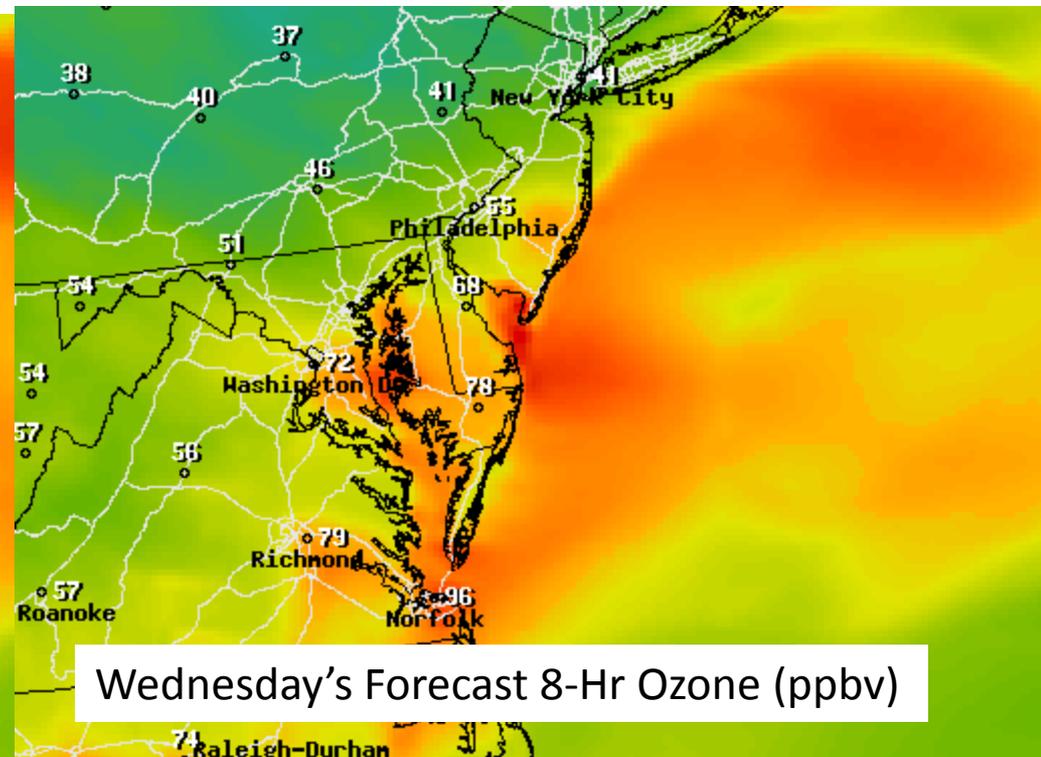


Forecast for Wednesday for ozone pretty high? After the passage of the cold front?

Wednesday's Forecast 1-Hr Ozone (ppbv)



Maximum 1Hr Ozone(PPB) Ending Thu Jul 14 2011
(Thu Jul 14 2011 04Z)



Wednesday's Forecast 8-Hr Ozone (ppbv)

Maximum 8hr Ozone(PPB) Ending Thu Jul 14 2011 3AM EDT
(Thu Jul 14 2011 07Z)

Essex

