DISCOVER-AQ Outlook for Saturday, July 16, 2011

Good flying conditions are likely for Saturday through Tuesday, though cloud forecasts need to be monitored for the next few days. Dewpoints begin to increase over the weekend and typical summertime conditions return to the mid-Atlantic next week – hazy, hot, and humid. Early indications are for excessive heat by the latter part of the week. Air quality will likely be poor most of the work week.

Recommendations for July 16-19th

Saturday, July 16th : Can Fly

Sunday, July 17th : Can Fly – check cloud forecast

Monday, July 18th : Can Fly – check cloud forecast

Tuesday, July 19th : Can Fly – check cloud forecast

Jason-CapitalWeatherGang wrote:

Aforecast update has been made to the top of the post to reflect the increase in cloud cover. We fully admit to missing this as did National Weather Service. From their discussion:

UPDATED SKY COVER TO ACCOUNT FOR THICKENING MID-LVL CLOUD DECK THAT HAS SPREAD INTO THE AREA.

THE MID-ATLANTIC REGION IS SITUATED BETWEEN A DOWNSTREAM UPPER LOW OVER THE NORTHWESTERN ATLANTIC AND A LARGE UPPER RIDGE OVER THE CENTRAL CONUS. MID/HI CLOUDS OVER THE GREAT LAKES WILL STREAM INTO THE AREA TDA UNDER NORTHWEST FLOW BETWEEN THOSE SYSTEMS.

Current Conditions at BWI at 11 am

Current Conditions [Move Up]

view Yesterday's Weather

Baltimore-Washington International Airport

Lat: 39.19 Lon: -76.67 Elev: 148

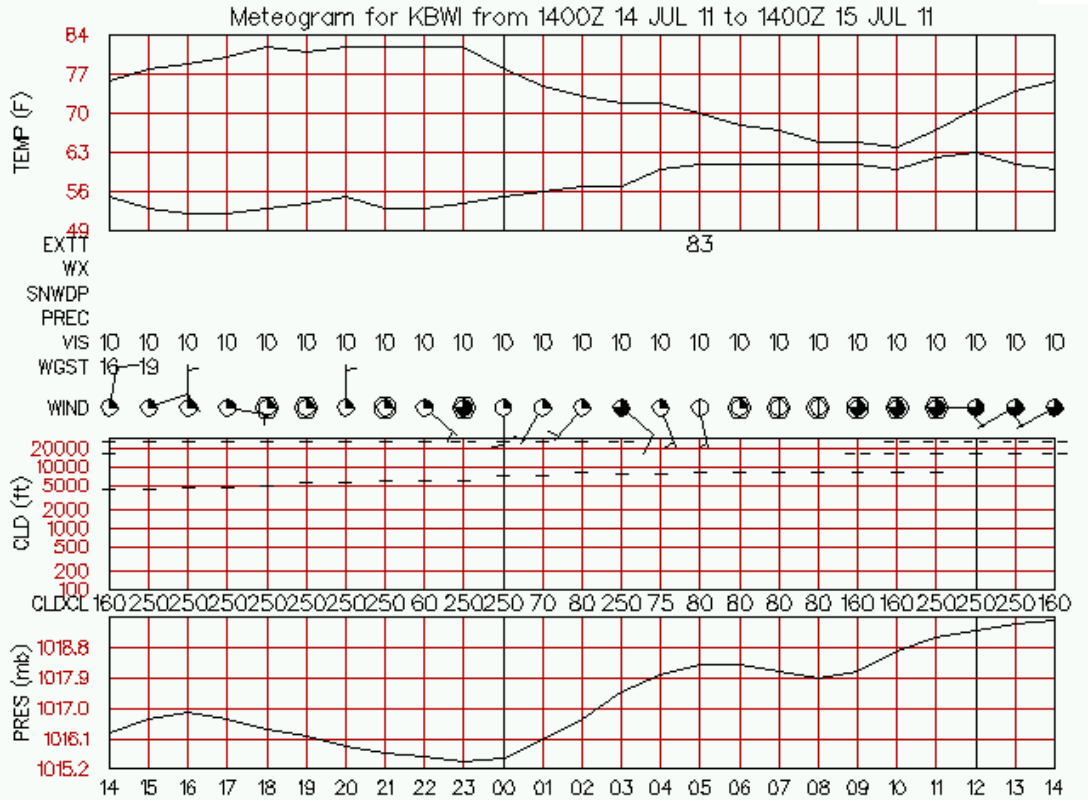
Last Update on Jul 15, 10:54 am EDT

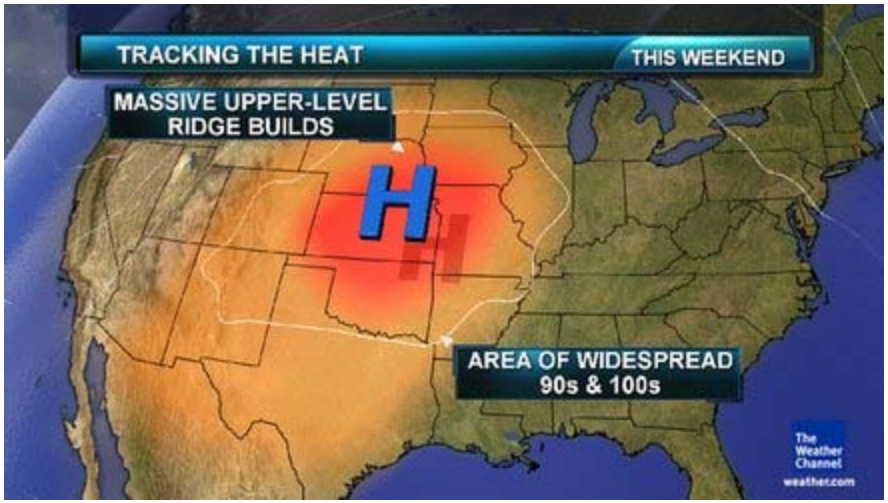
Mostly Cloudy

79 °F (26 °C)

Humidity:	54 %
Wind Speed:	W 7 MPH
Barometer:	30.12" (1019.8 mb)
Dewpoint:	61 °F (16 °C)
Heat Index:	80 °F (27 °C)
Visibility:	10.00 mi.

Plymouth State Weather Center

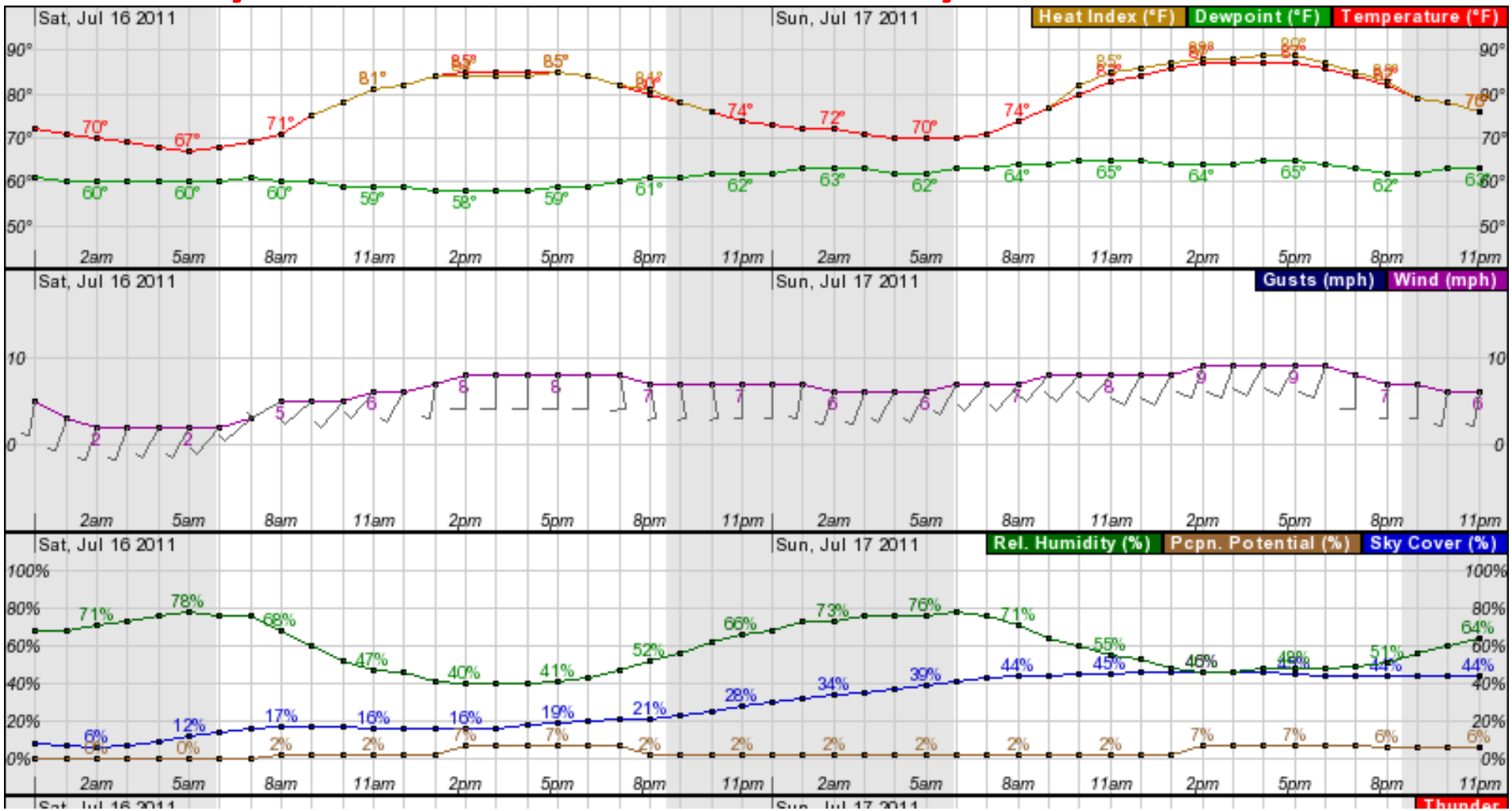




Today Jul 15	Sat 16	Sun 17	Mon 18	Tue 19	Wed 20	Thu 21	Fri 22	Sat 23	Sun 24
Mostly Sunny	Sunny	Partly Cloudy	Partly Cloudy	Partly Cloudy	Mostly Sunny	Partly Cloudy	Mostly Sunny	Isolated T-Storms	AM Clouds / PM Sun
89°F High	**92°**	**93°**	**95°**	**98°**	**97°**	**101°**	**97°**	**96°**	**97°**
74° Low	**75°**	**78°**	**80°**	**78°**	**80°**	**82°**	**83°**	**81°**	**79°**

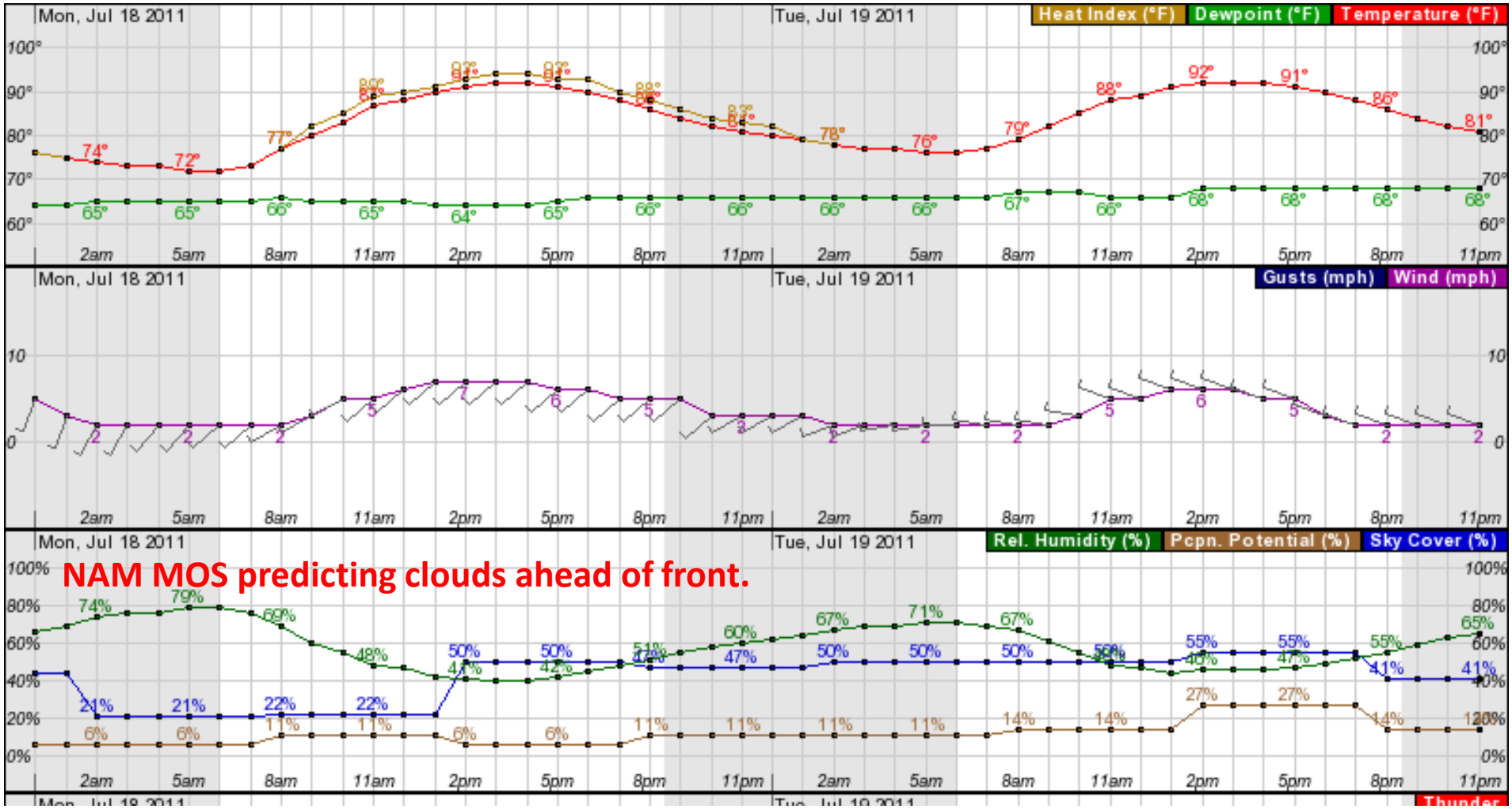
Dewpoints rising a little, Clouds increasing

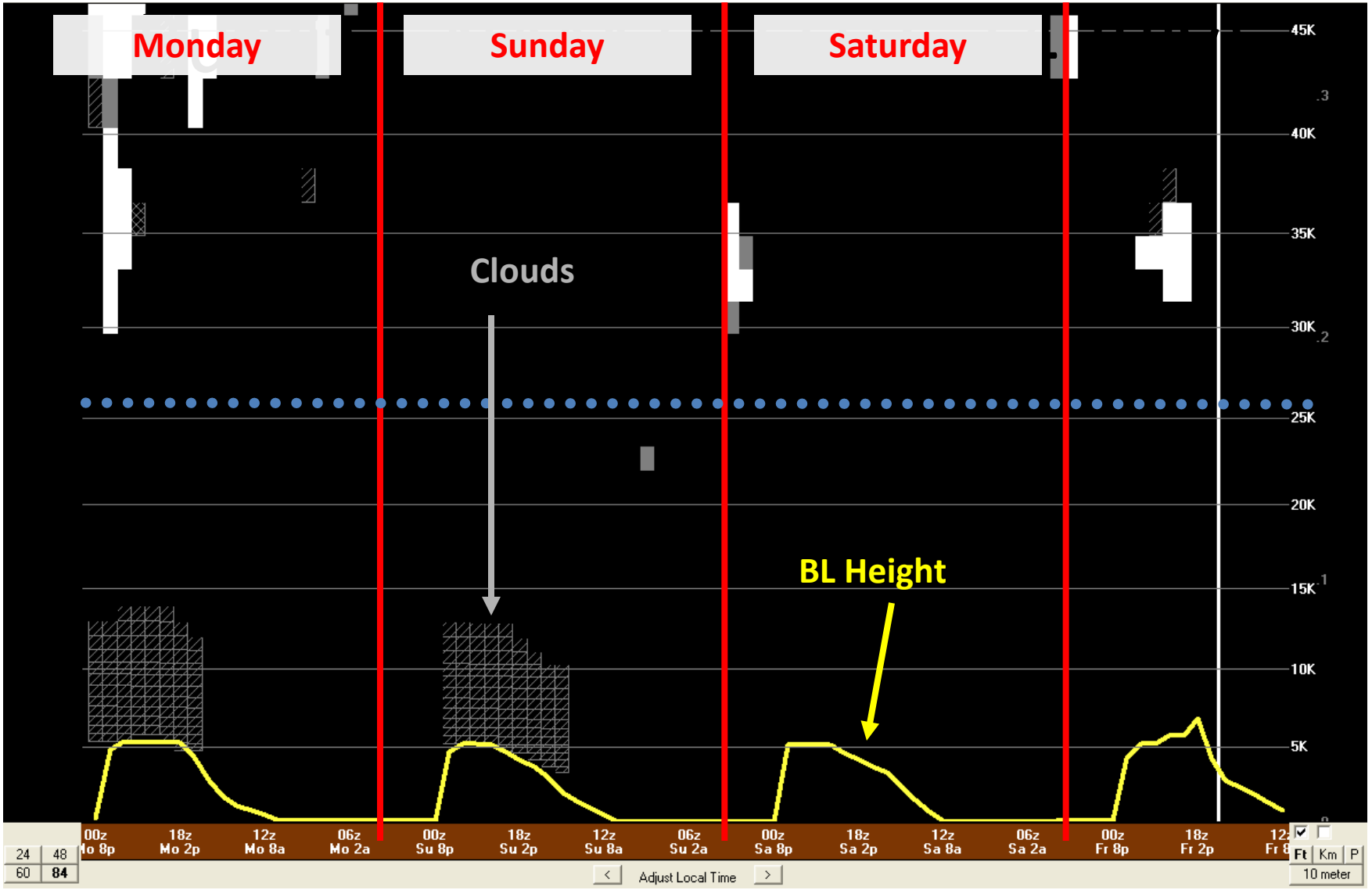
Saturday→ **Sunday→**



Dewpoints rising a little, Clouds & Temps increasing

Monday→ **Tuesday→**



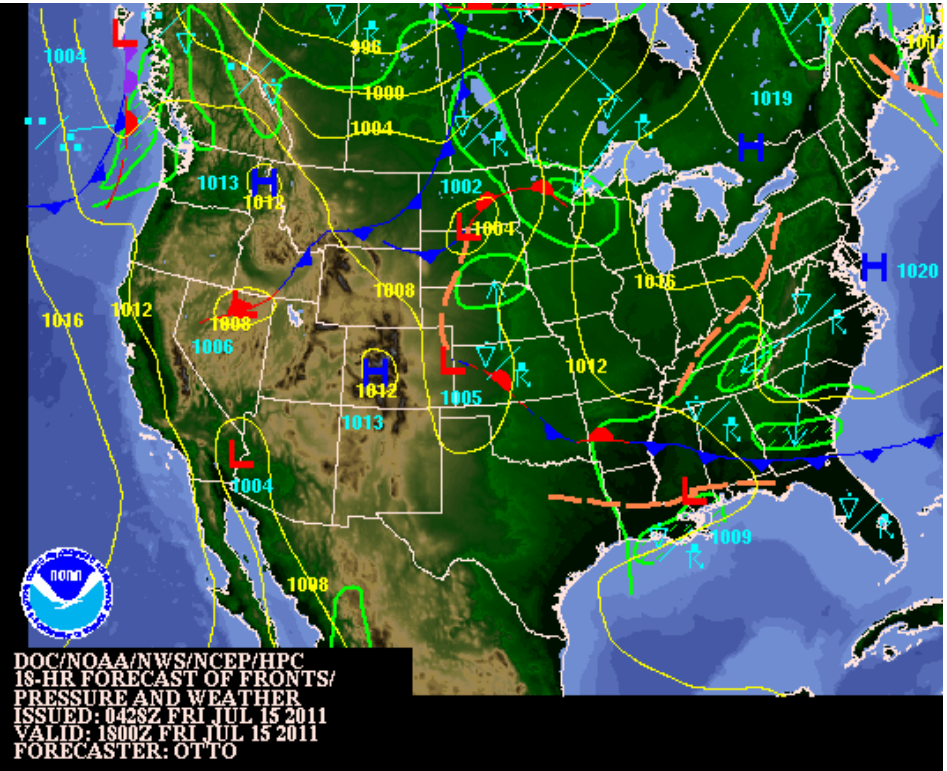


- Scattered Boundary-Layer clouds both Sunday and Monday afternoon

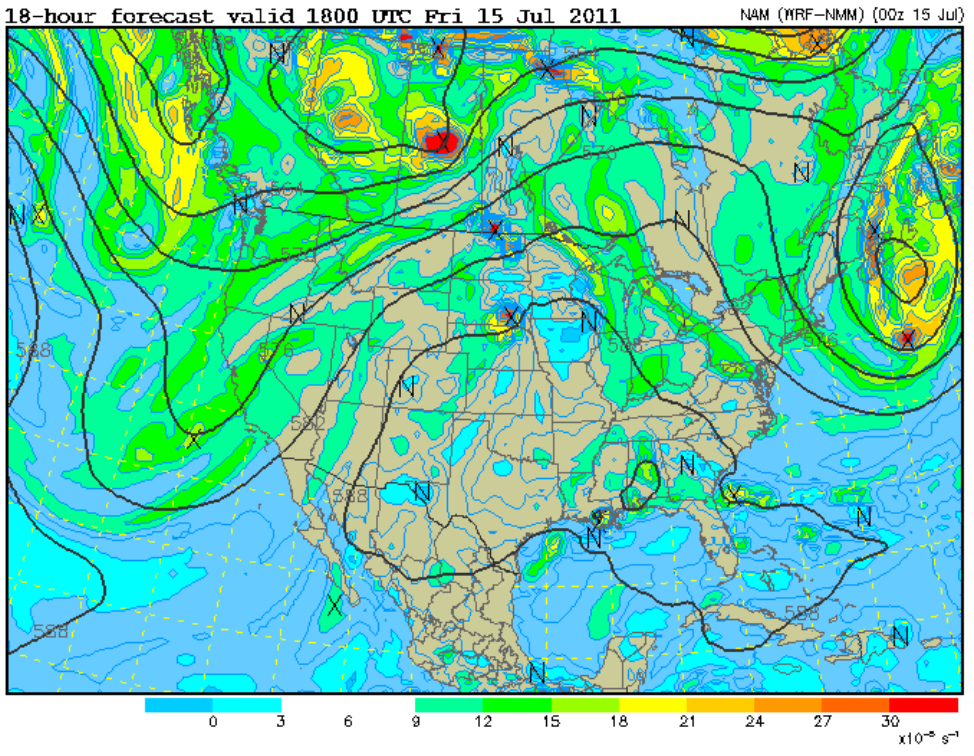
- No precip and generally clear skies

Friday 2 pm – Southerly flow from high pressure off of East Coast

NWS Short range forecast of fronts and pressure

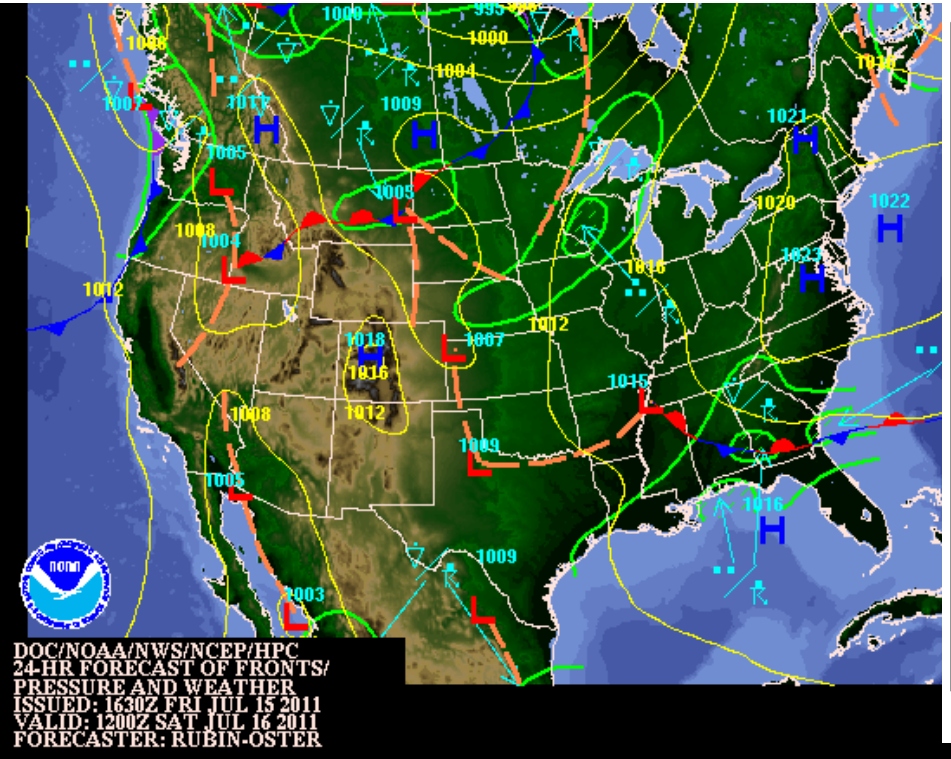


NAM 500 mb Heights (dm) and Abs. Vorticity ($x10^{-5}s^{-1}$)

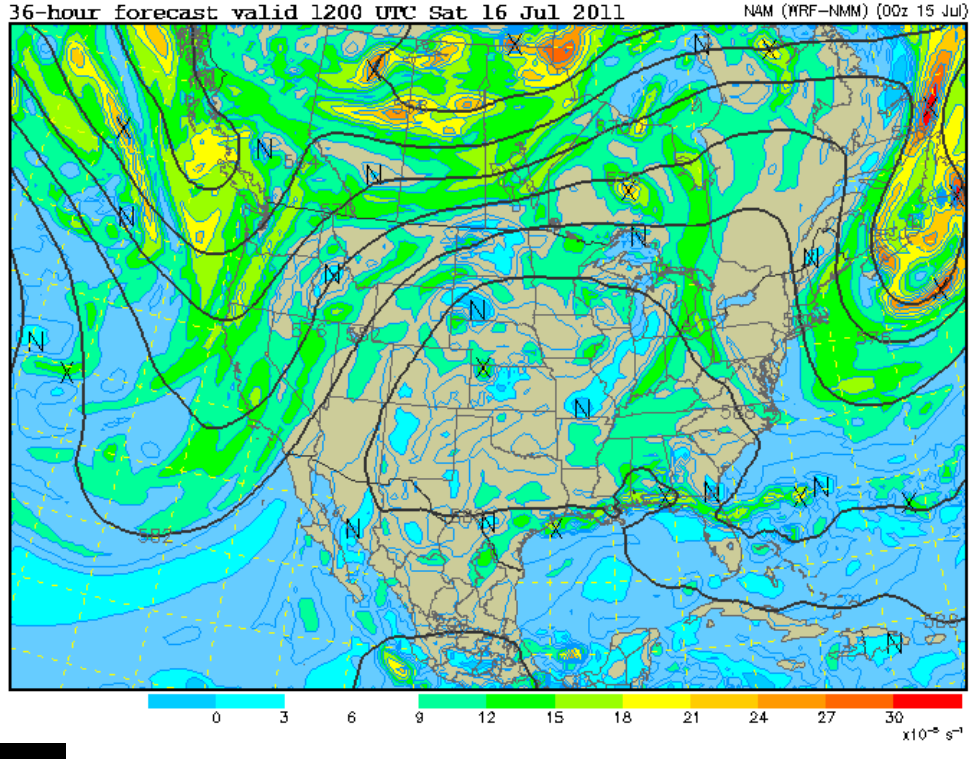


Saturday 8 am – High pressure remains

NWS Short range forecast of fronts and pressure

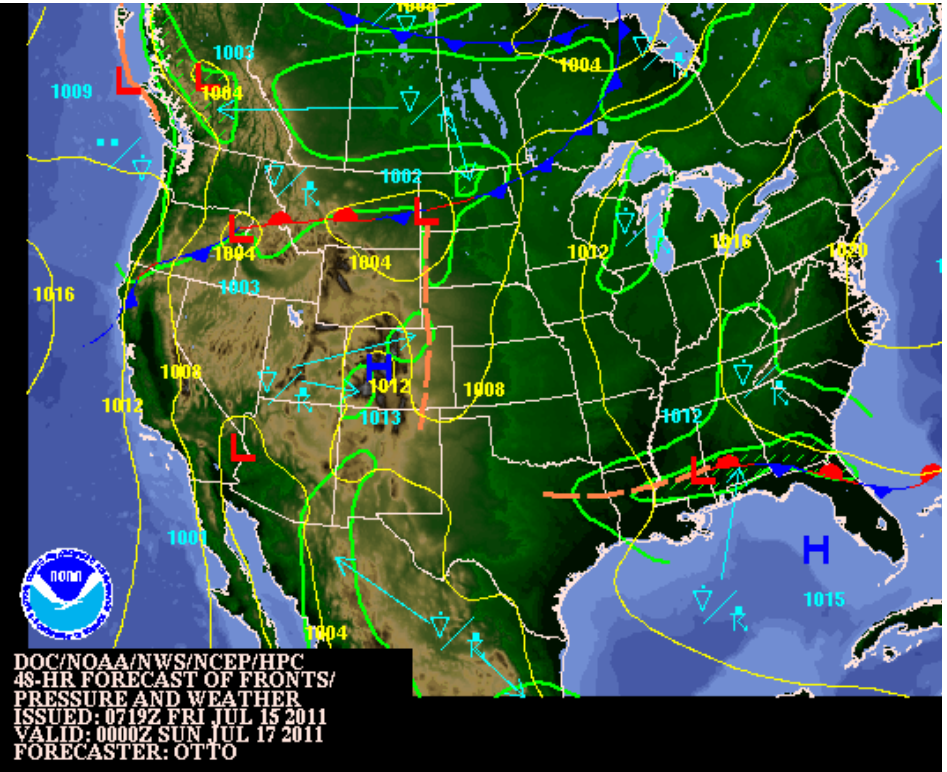


NAM 500 mb Heights (dm) and Abs. Vorticity ($x10^{-5}s^{-1}$)

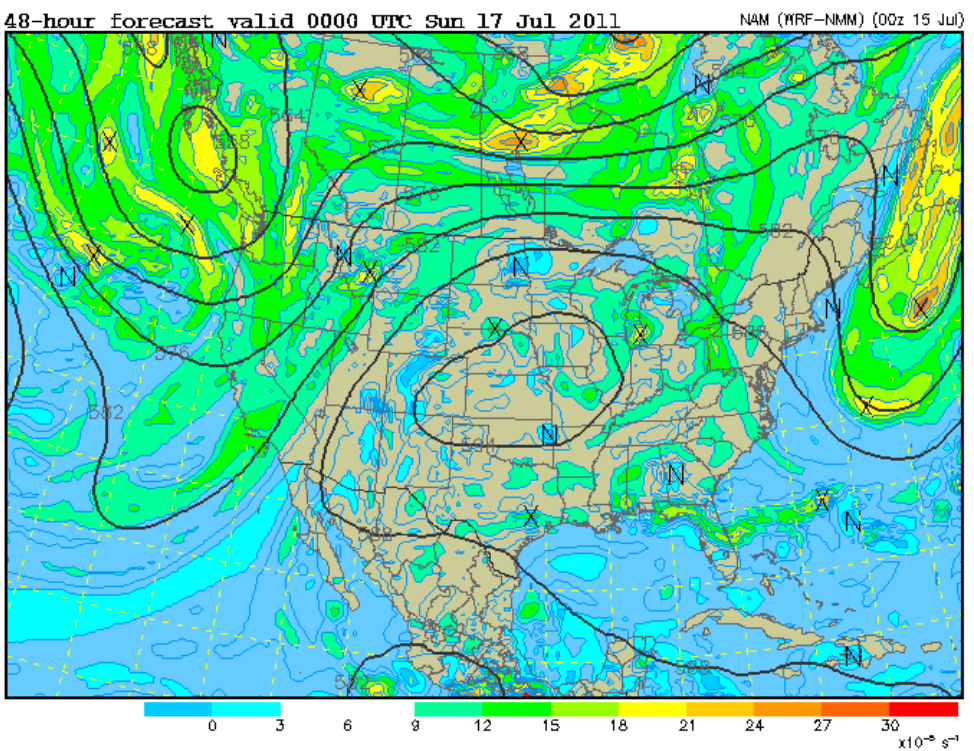


Saturday 8 pm – upper level ridge intensifies

NWS Short range forecast of fronts and pressure

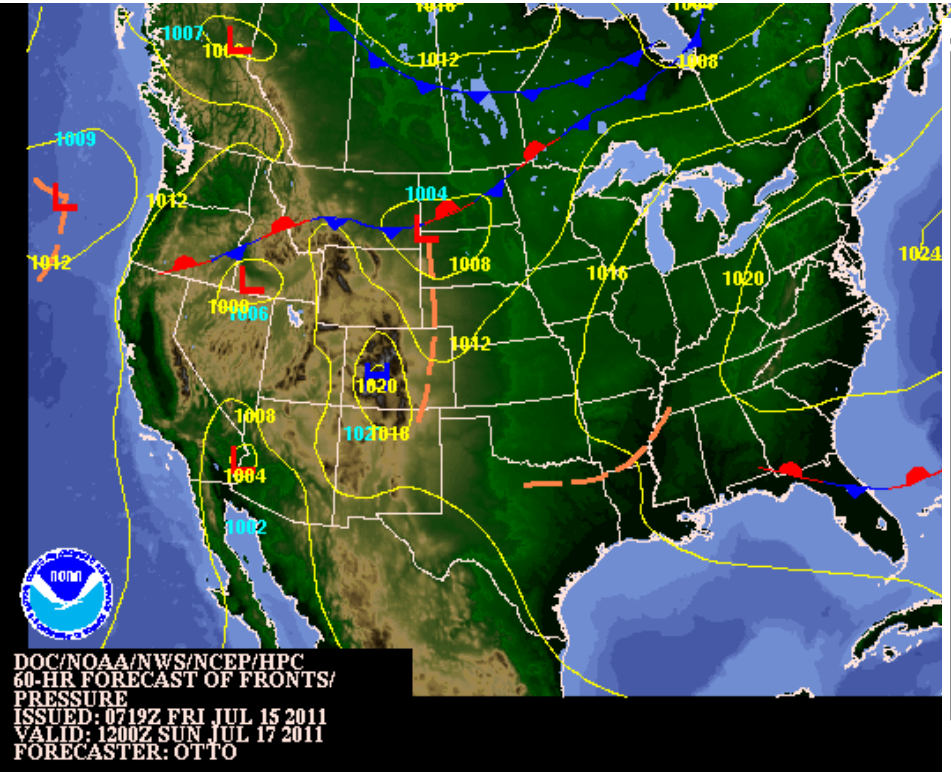


NAM 500 mb Heights (dm) and Abs. Vorticity ($x10^{-5}s^{-1}$)

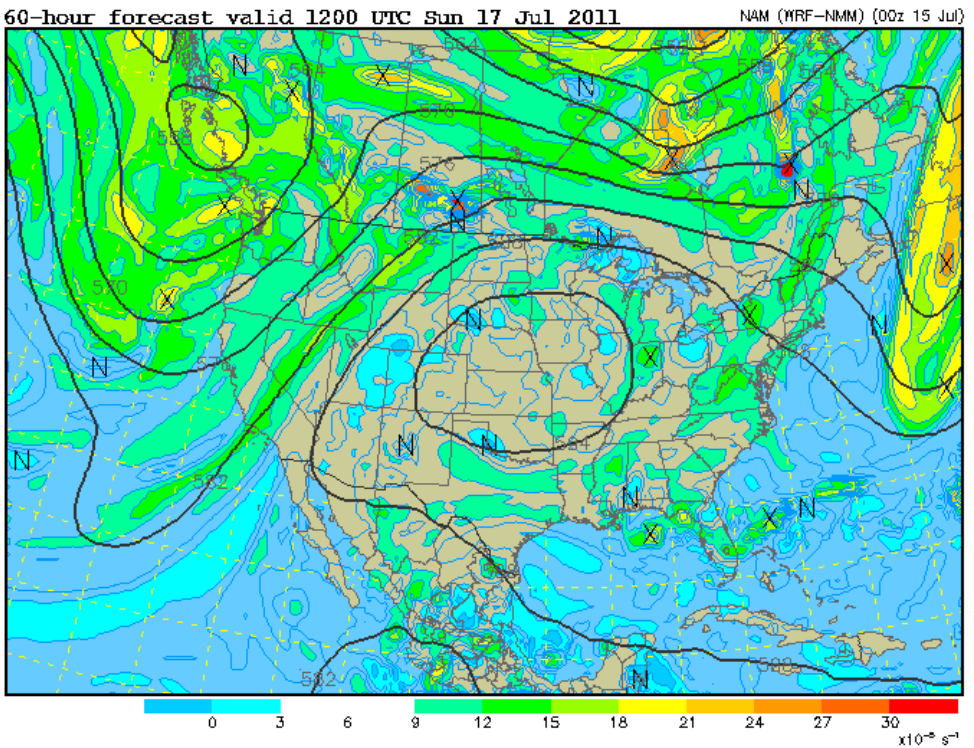


Sunday 8 am – Upper level ridge and high pressure maintain position and strength

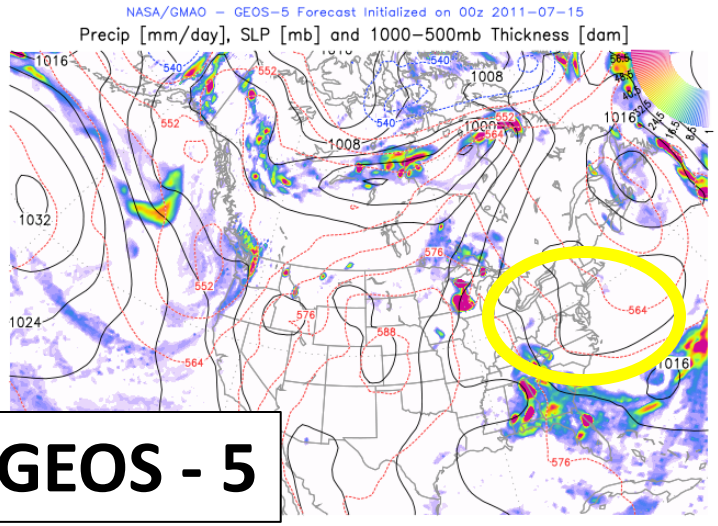
NWS Short range forecast of fronts and pressure



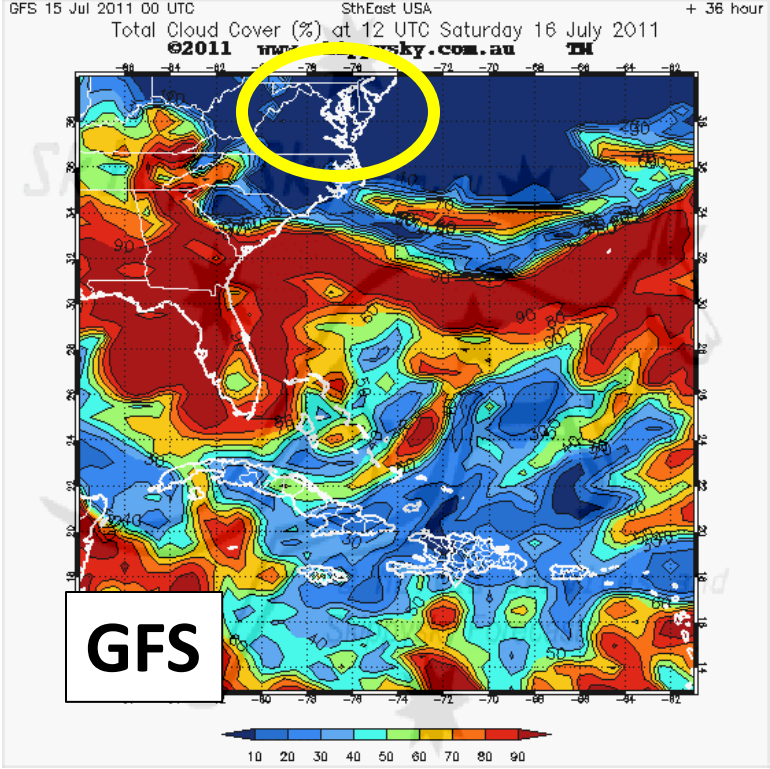
NAM 500 mb Heights (dm) and Abs. Vorticity ($x10^{-5}s^{-1}$)



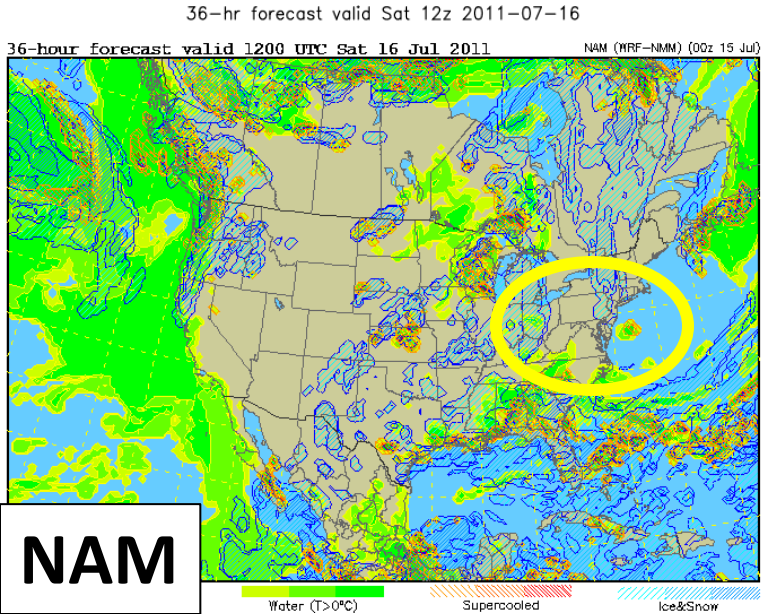
Saturday 8 am – All models indicate clear conditions



GEOS - 5



GFS



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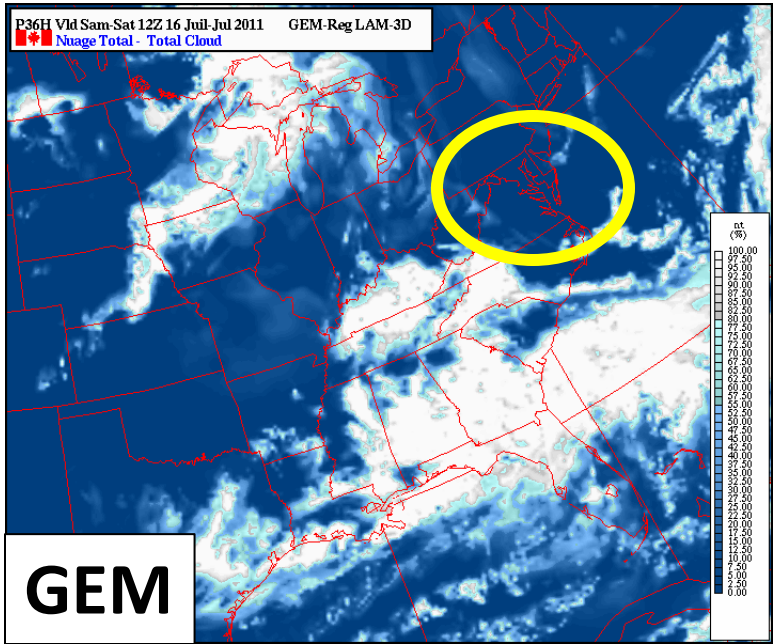
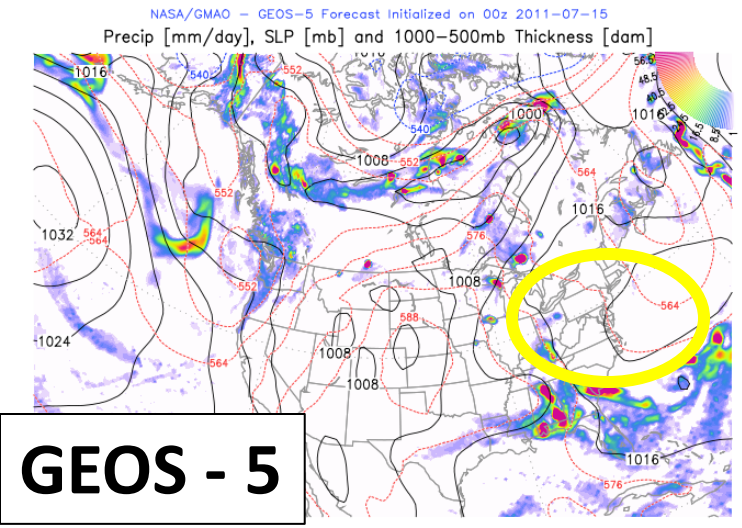
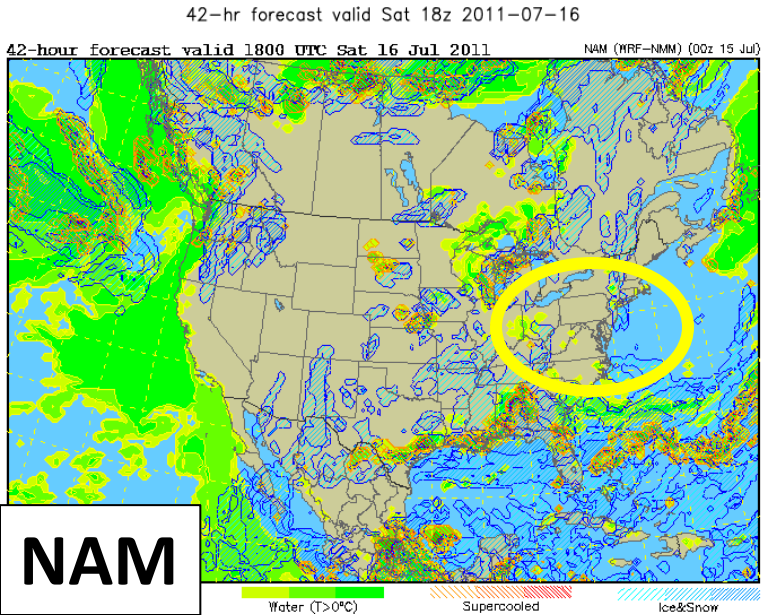


GEM

Saturday 2 pm – Canadian GEM model indicates some clouds



GEOS - 5



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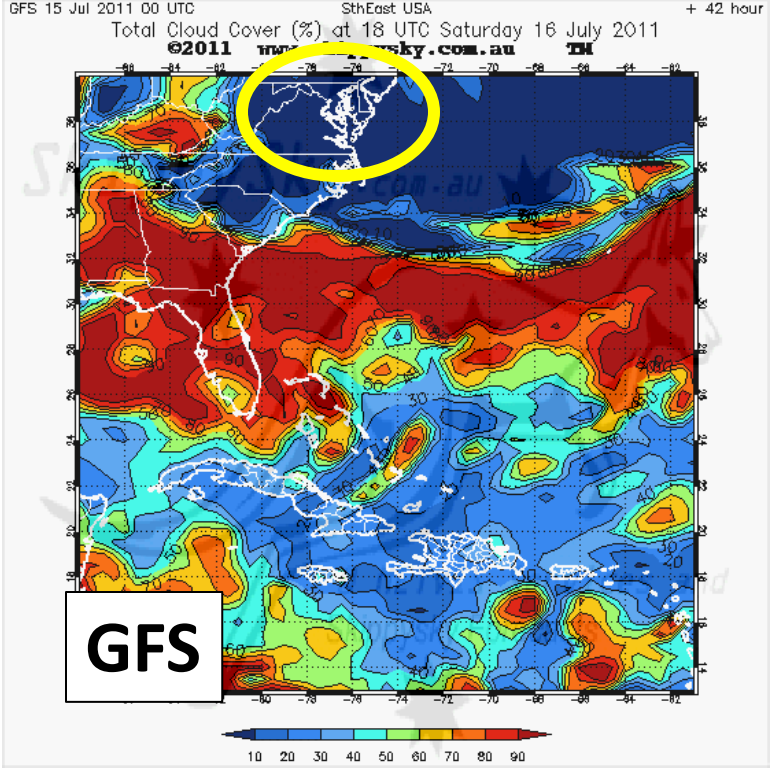

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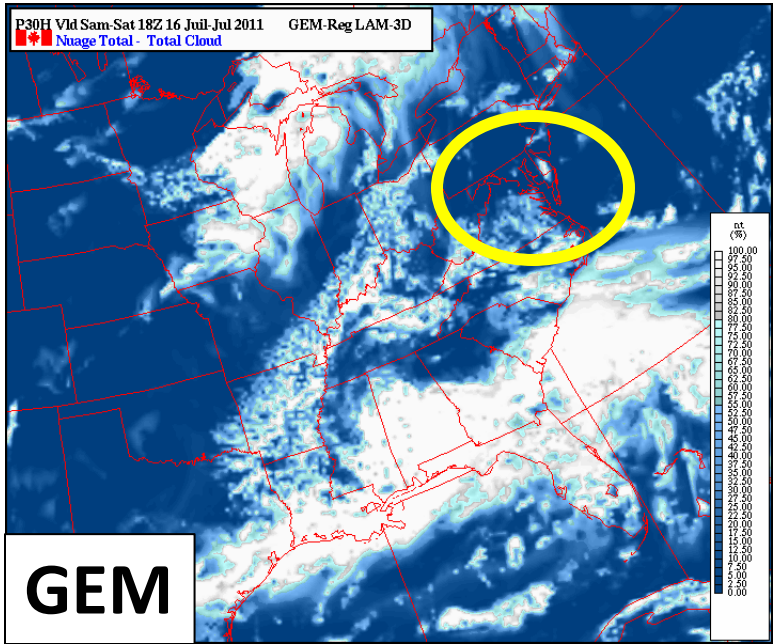
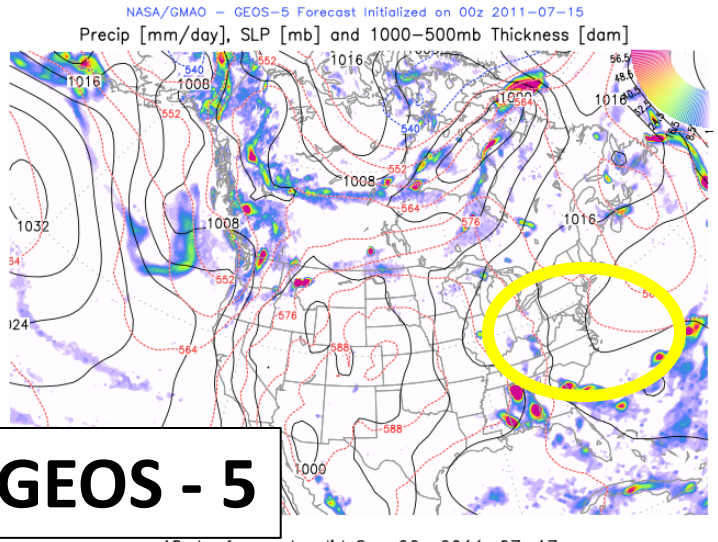
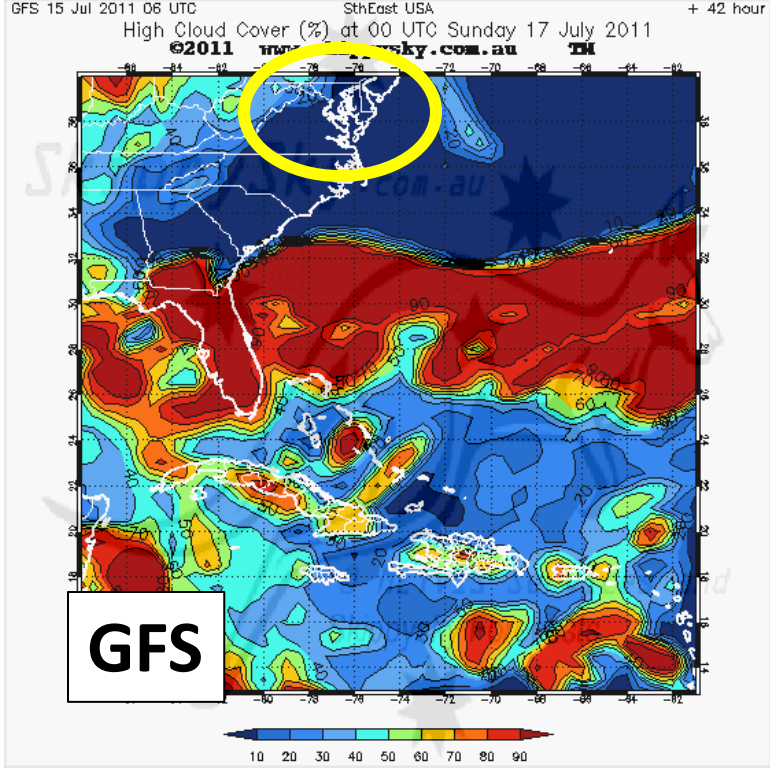


GEM

Saturday 8 pm – GEM model still outlier. All other models clear.



GEOS - 5



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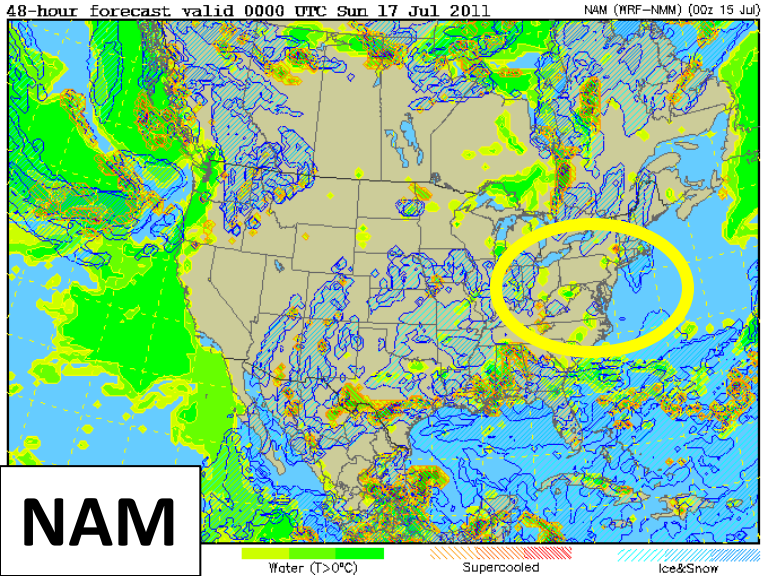

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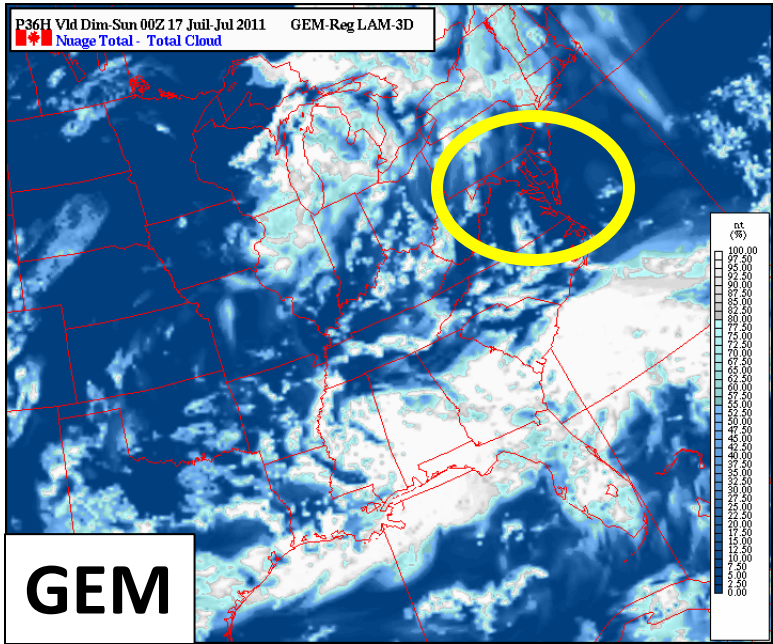
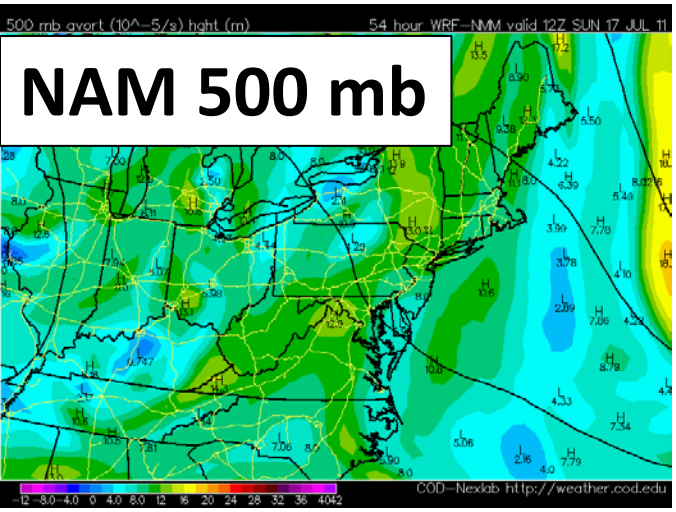


GEM

Sunday 8 am – All models indicate clear conditions



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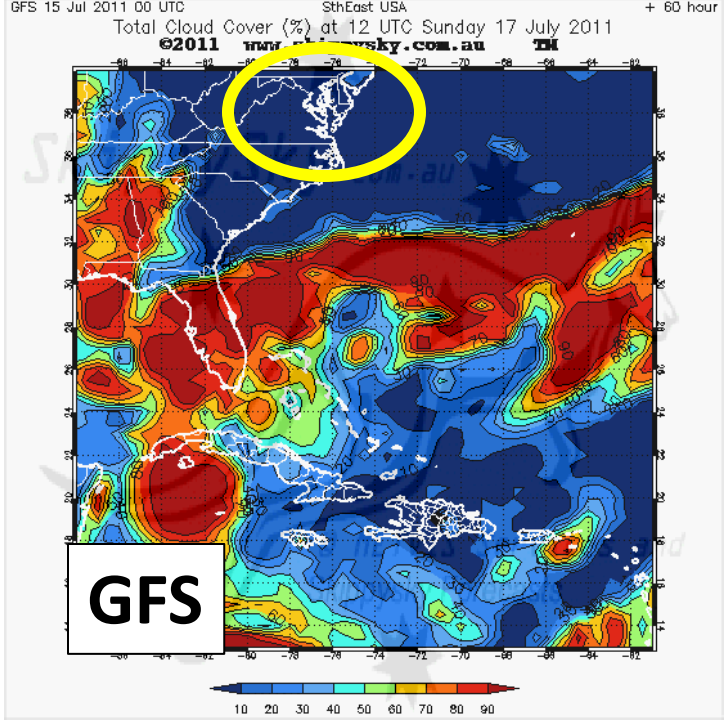

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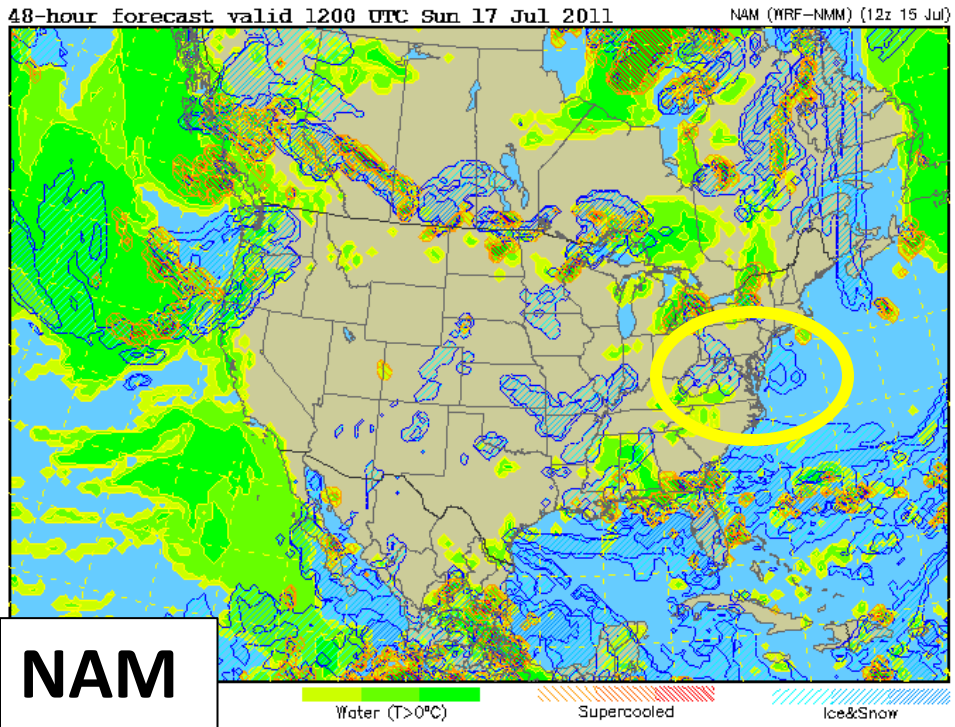

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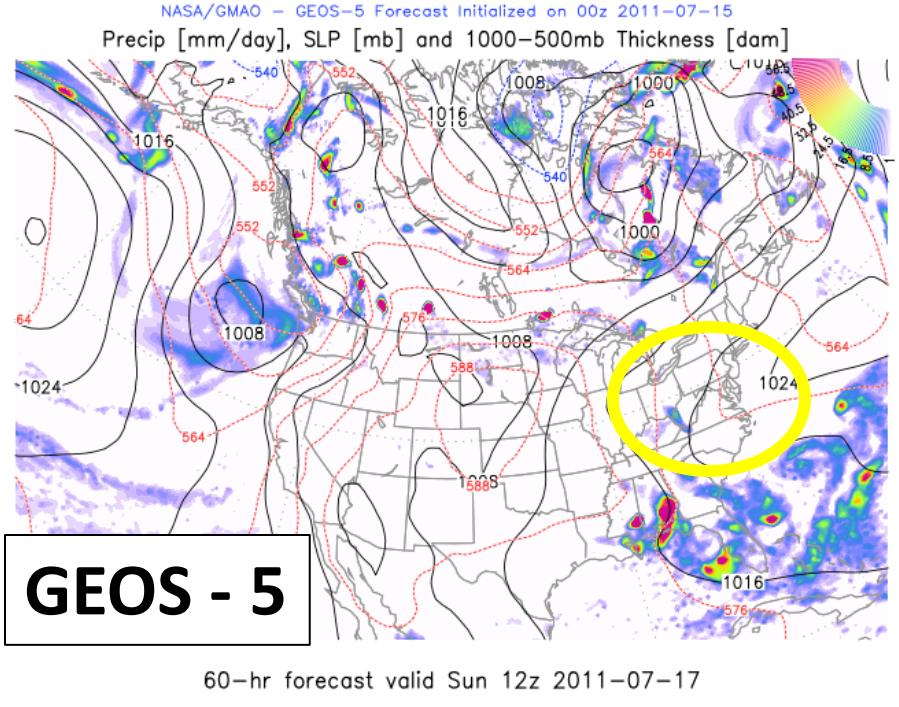
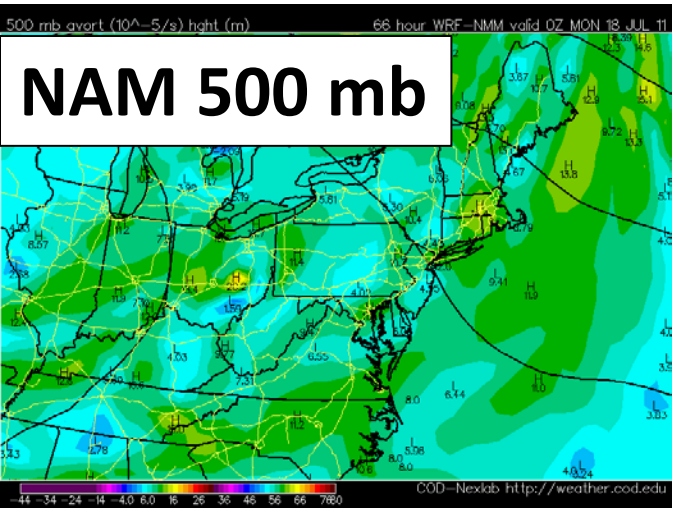


GEOS - 5

Sunday 8 pm – All models indicate clear conditions



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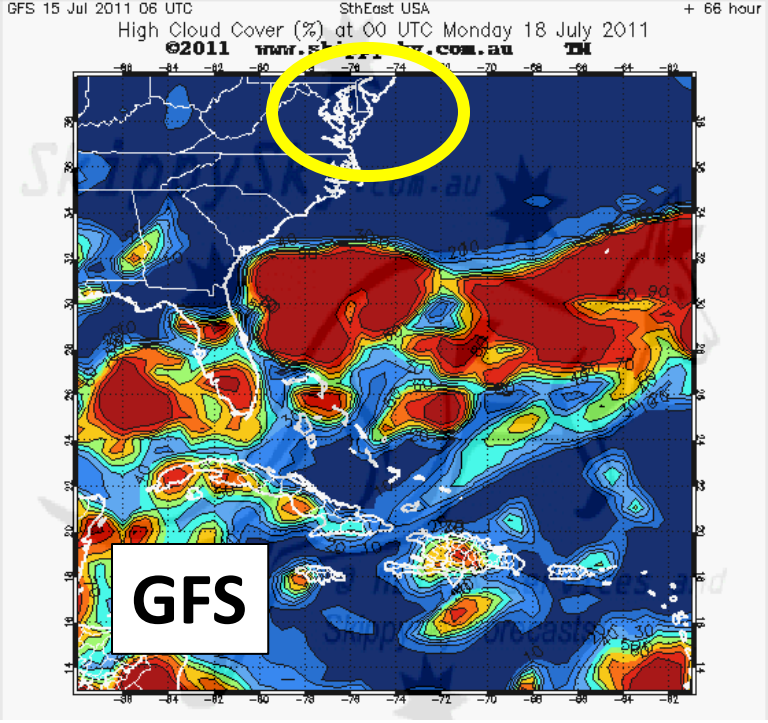

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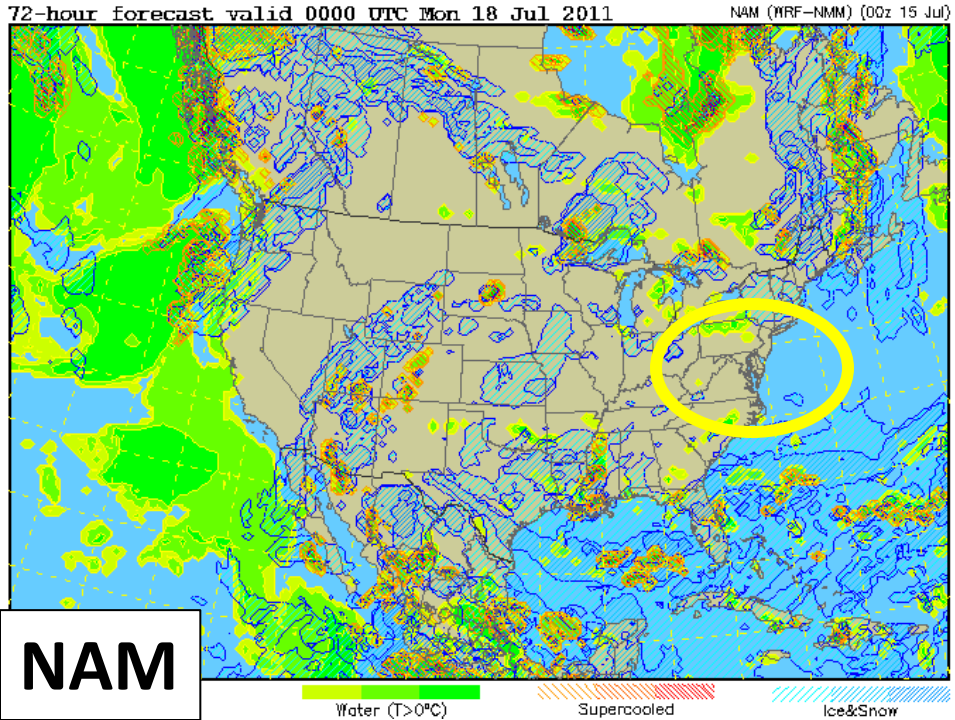

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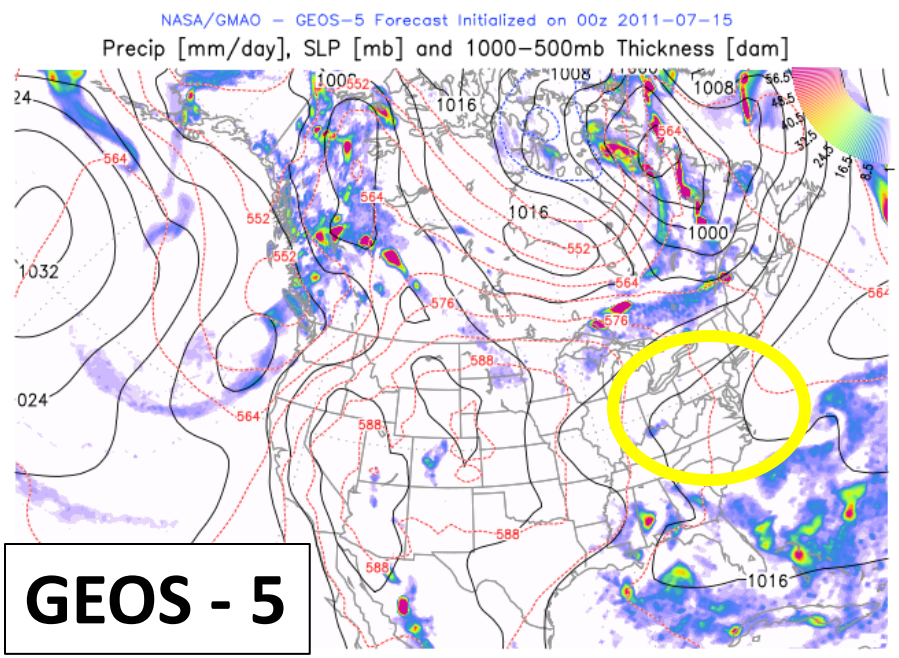
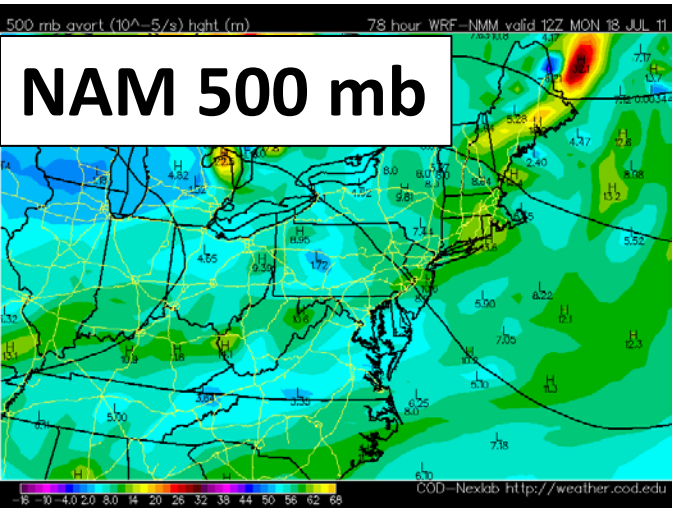


GEOS - 5

Monday 8 am – All models indicate clear conditions



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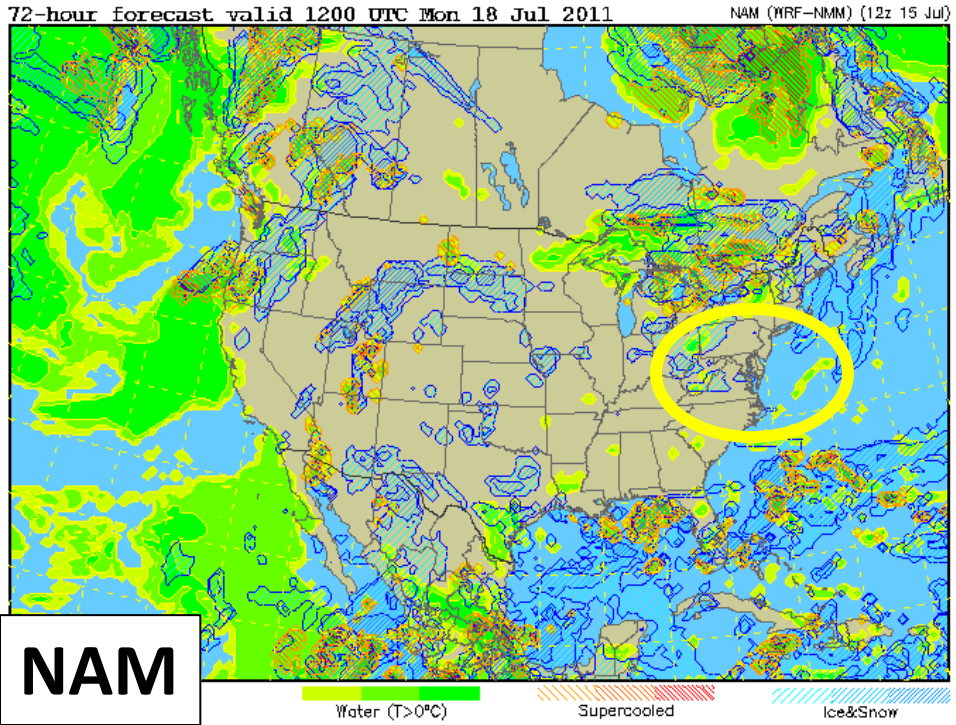

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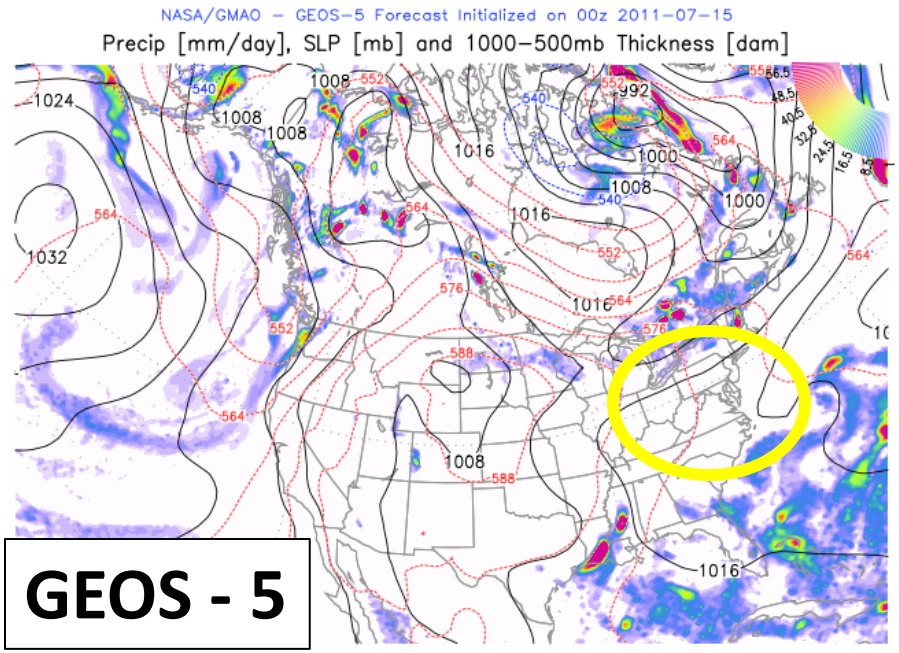
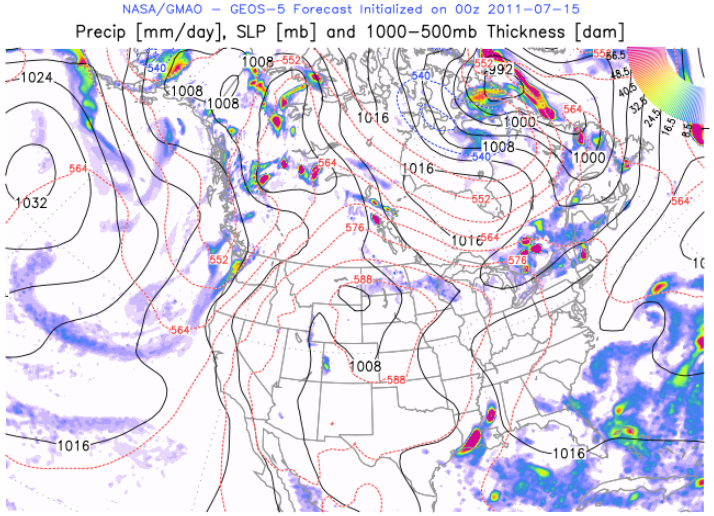
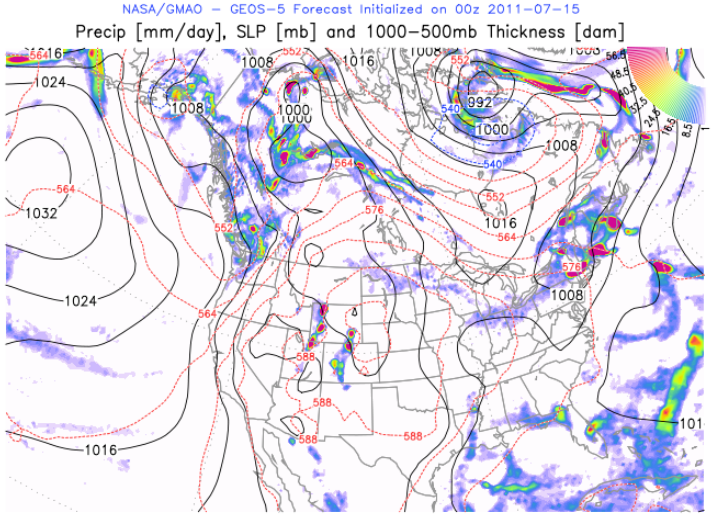


GEOS - 5

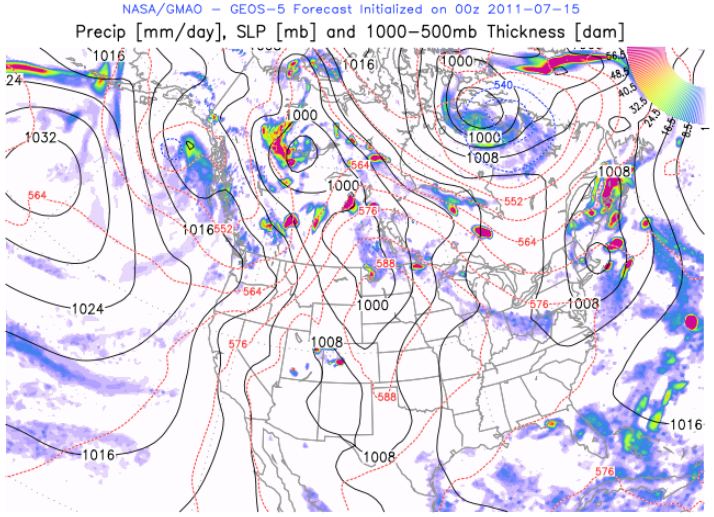
GEOS -5 extended forecast
No precip through Tuesday night



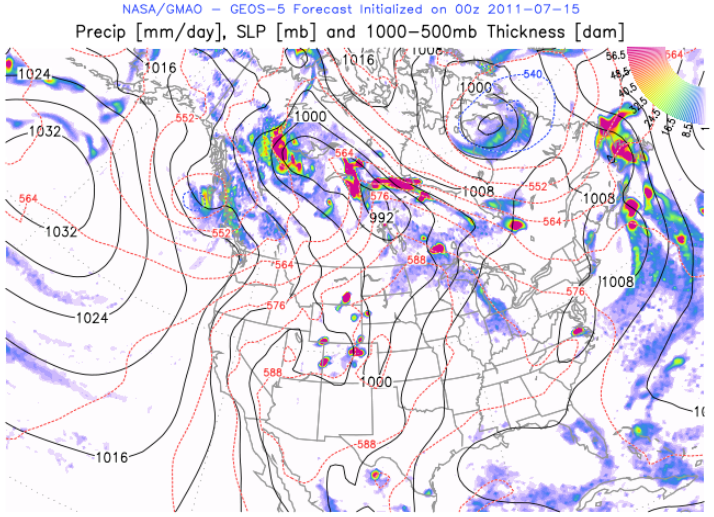
84-hr forecast valid Mon 12z 2011-07-18



96-hr forecast valid Tue 00z 2011-07-19



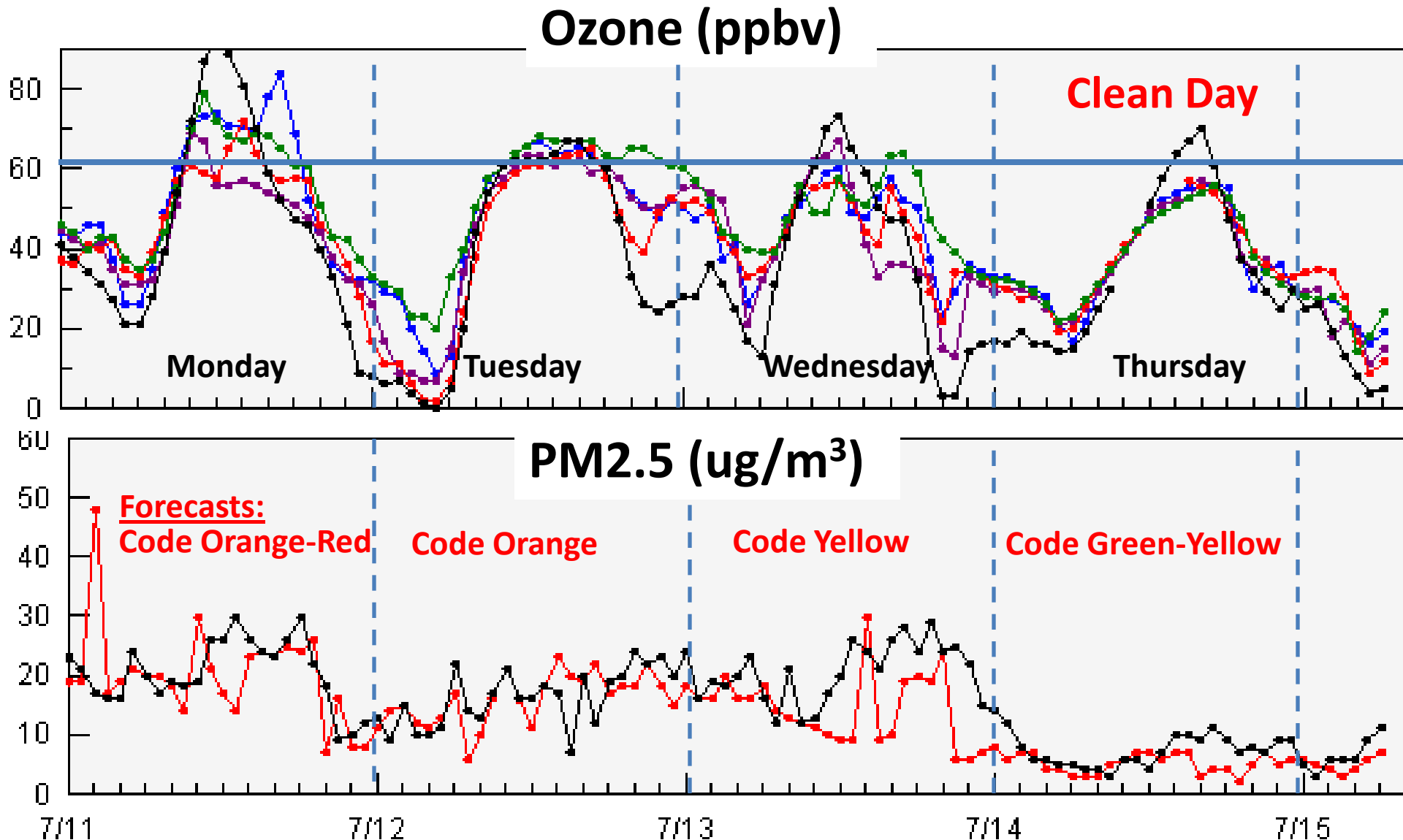
108-hr forecast valid Tue 12z 2011-07-19

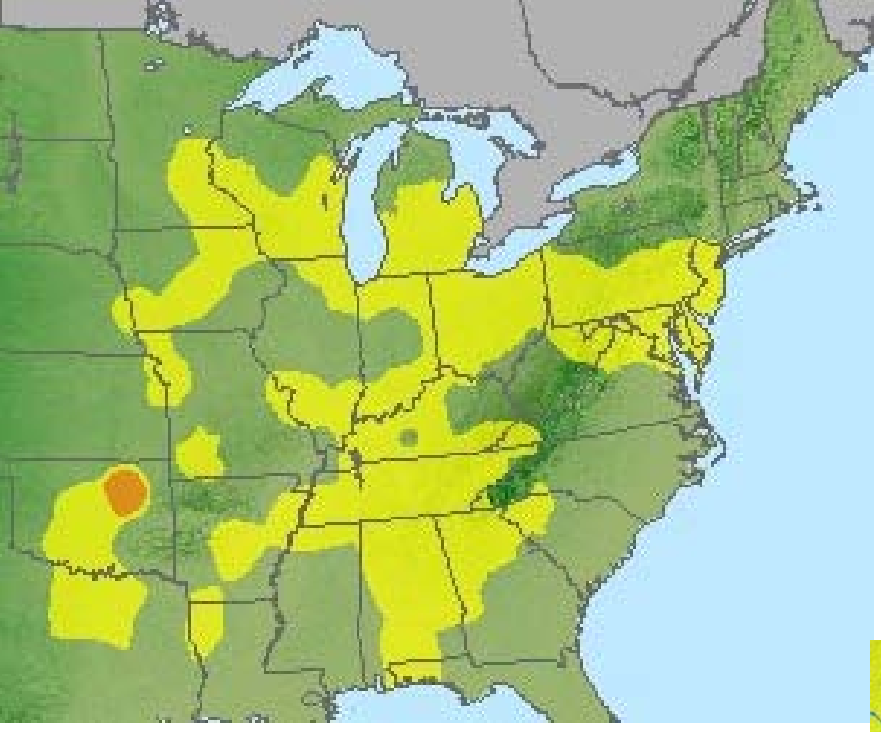


120-hr forecast valid Wed 00z 2011-07-20

MDE Surface Sites

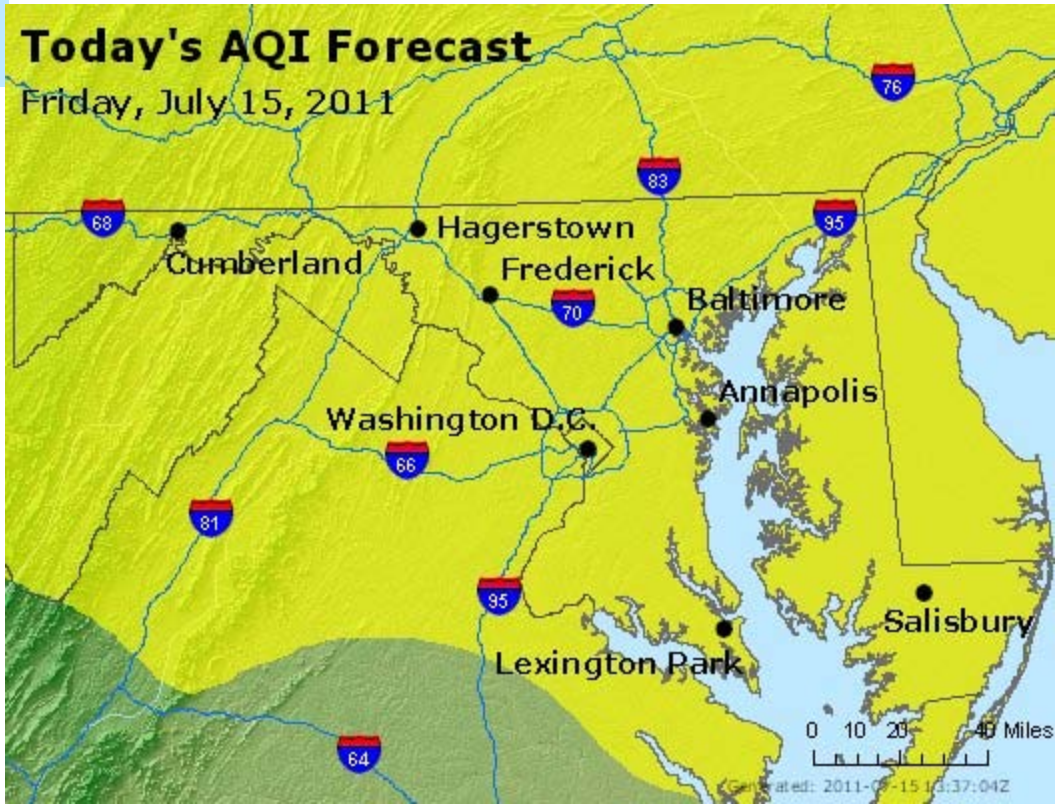
Padonia Beltsville Edgewood Aldino Essex



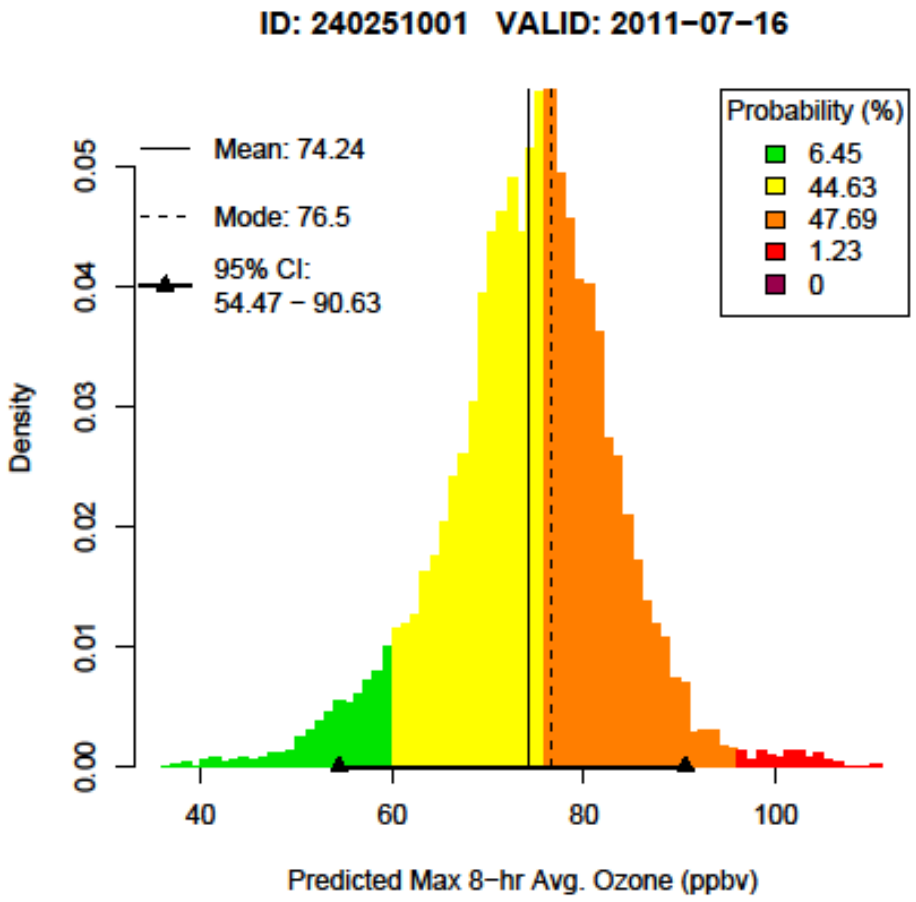


Relatively clean air over eastern U.S.

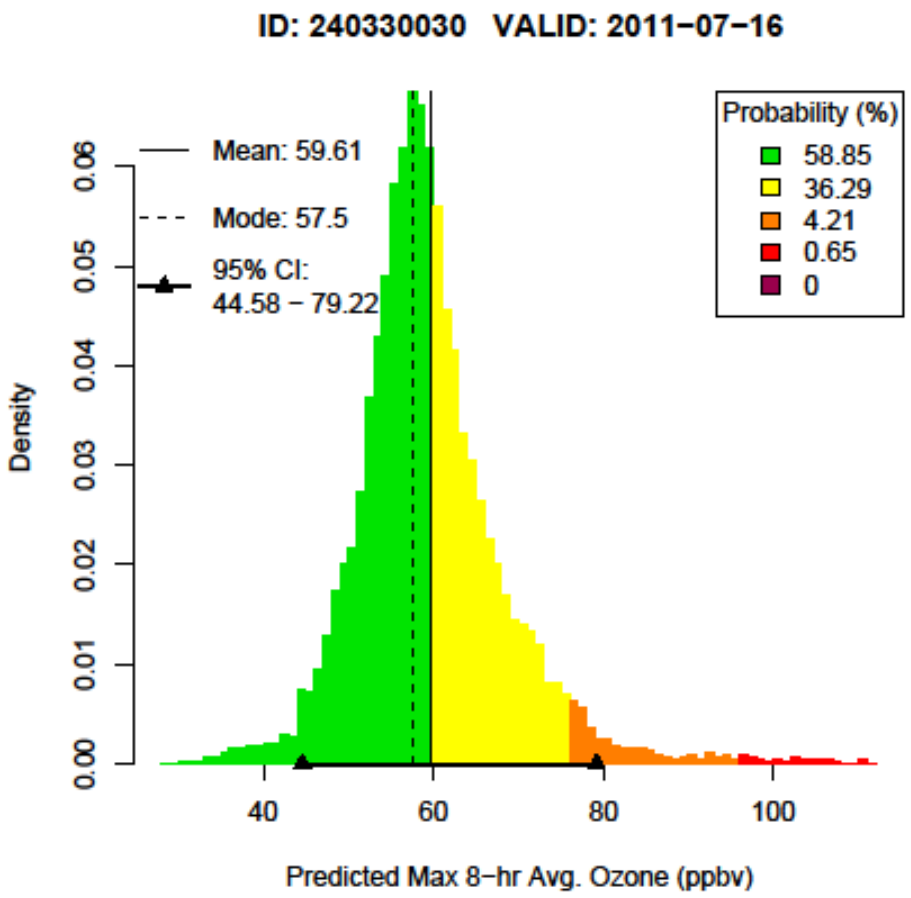
Air Quality Forecast	
Today's High	**Tomorrow's High**
Air Quality Index (AQI)	Air Quality Index (AQI)
67 **Moderate**	77 **Moderate**
Health Message: Unusually sensitive people should consider reducing prolonged or heavy exertion outdoors.	**Health Message:** Unusually sensitive people should consider reducing prolonged or heavy exertion outdoors.
AQI - Pollutant Details	
Ozone 67 Moderate	Ozone 77 Moderate
Particles (PM2.5) 49 Good	Particles (PM2.5) 52 Moderate



NAQFC-MOS valid for Saturday



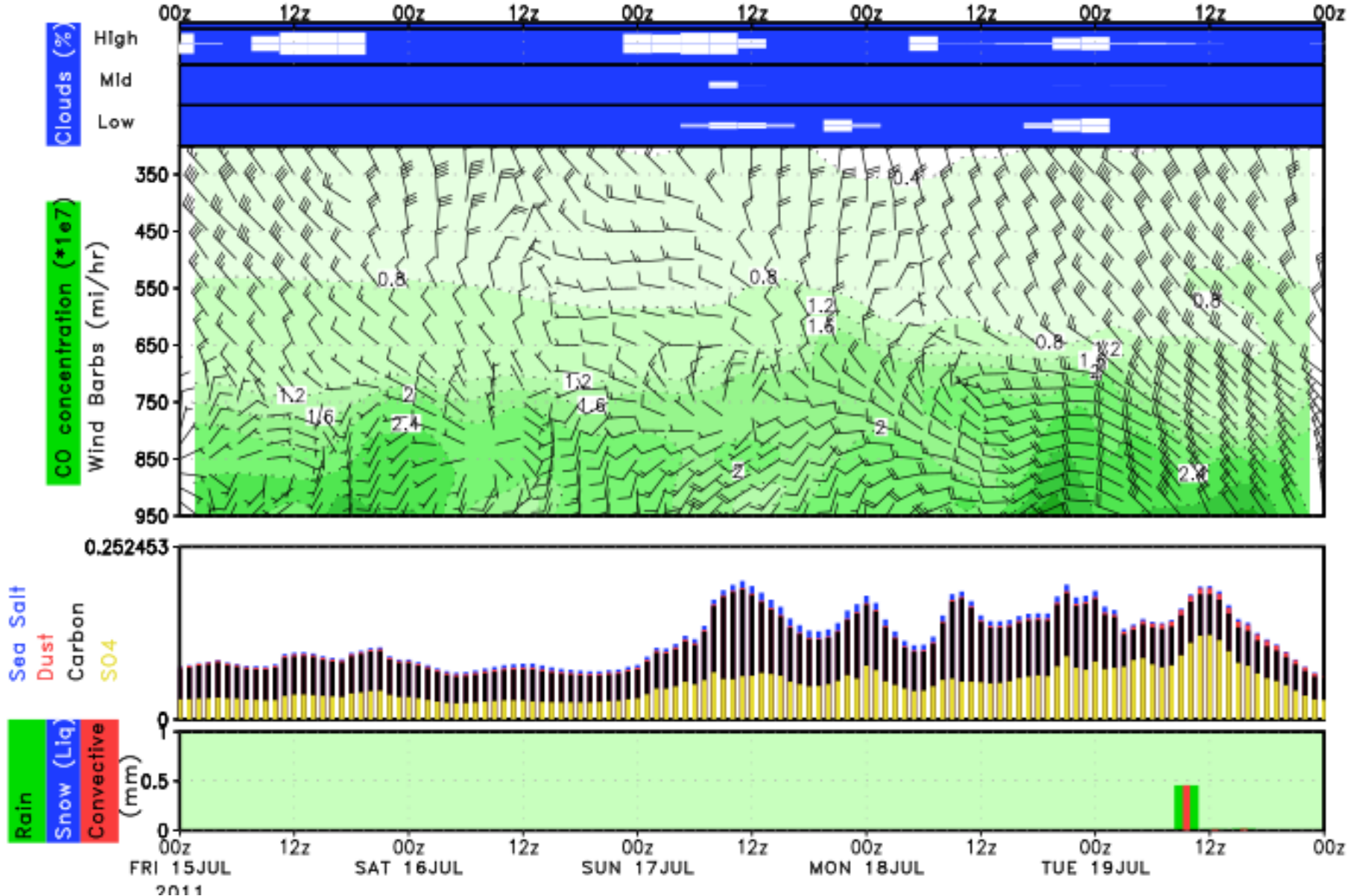
Edgewood

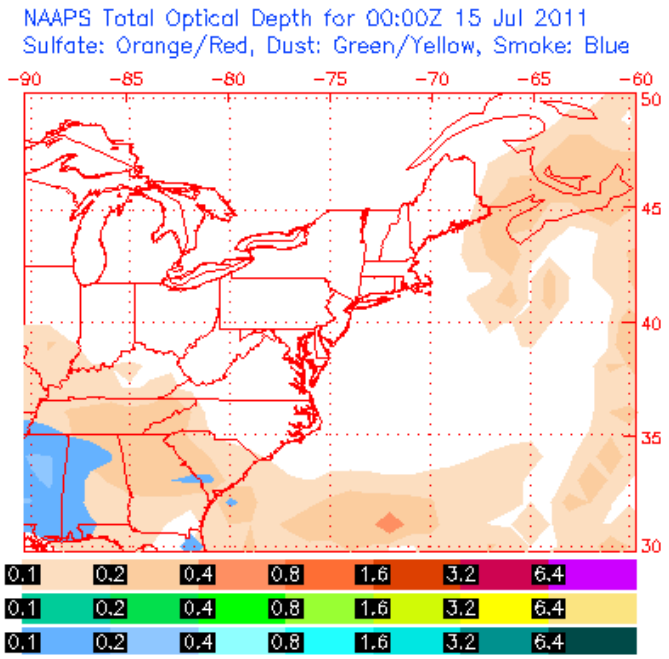


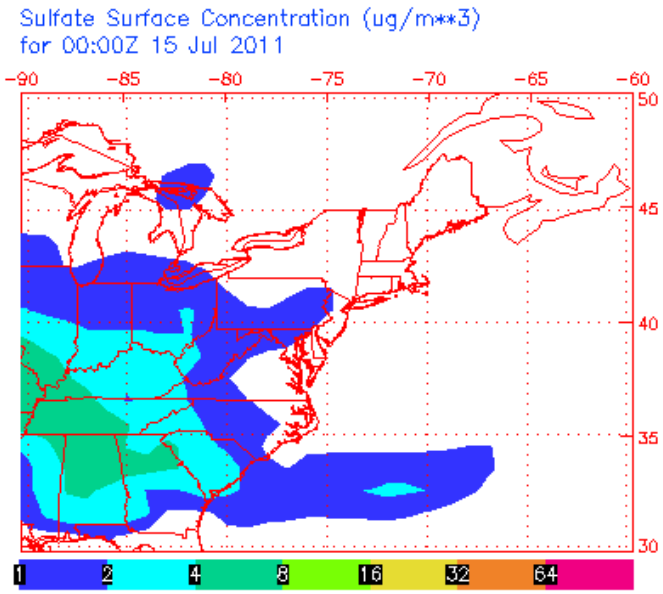
Beltsville

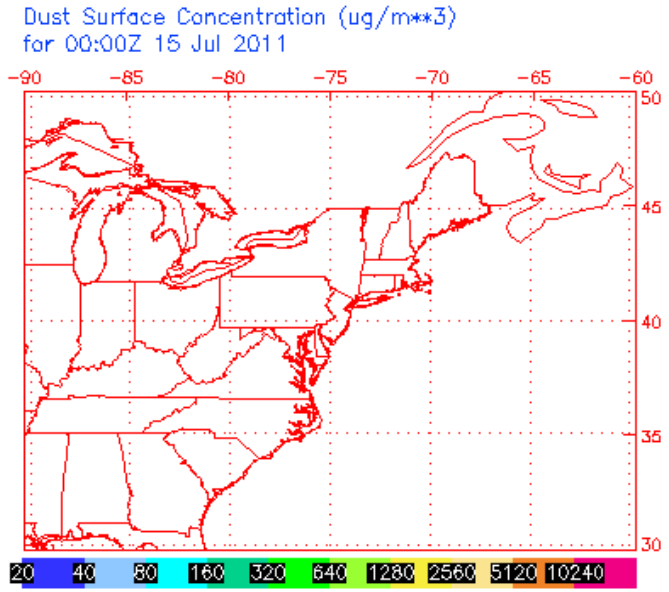
GMAO GEOS AOT low for mid-Atlantic

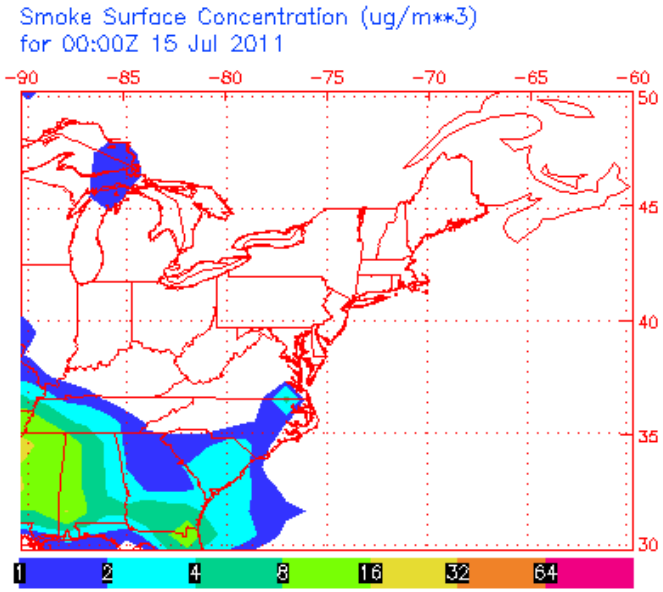
Beltsville











Wildfire Smoke Staying to Our south.

Fri Jul 15 09:55:28 2011 UTC NRL/Monterey Aerosol Modeling