

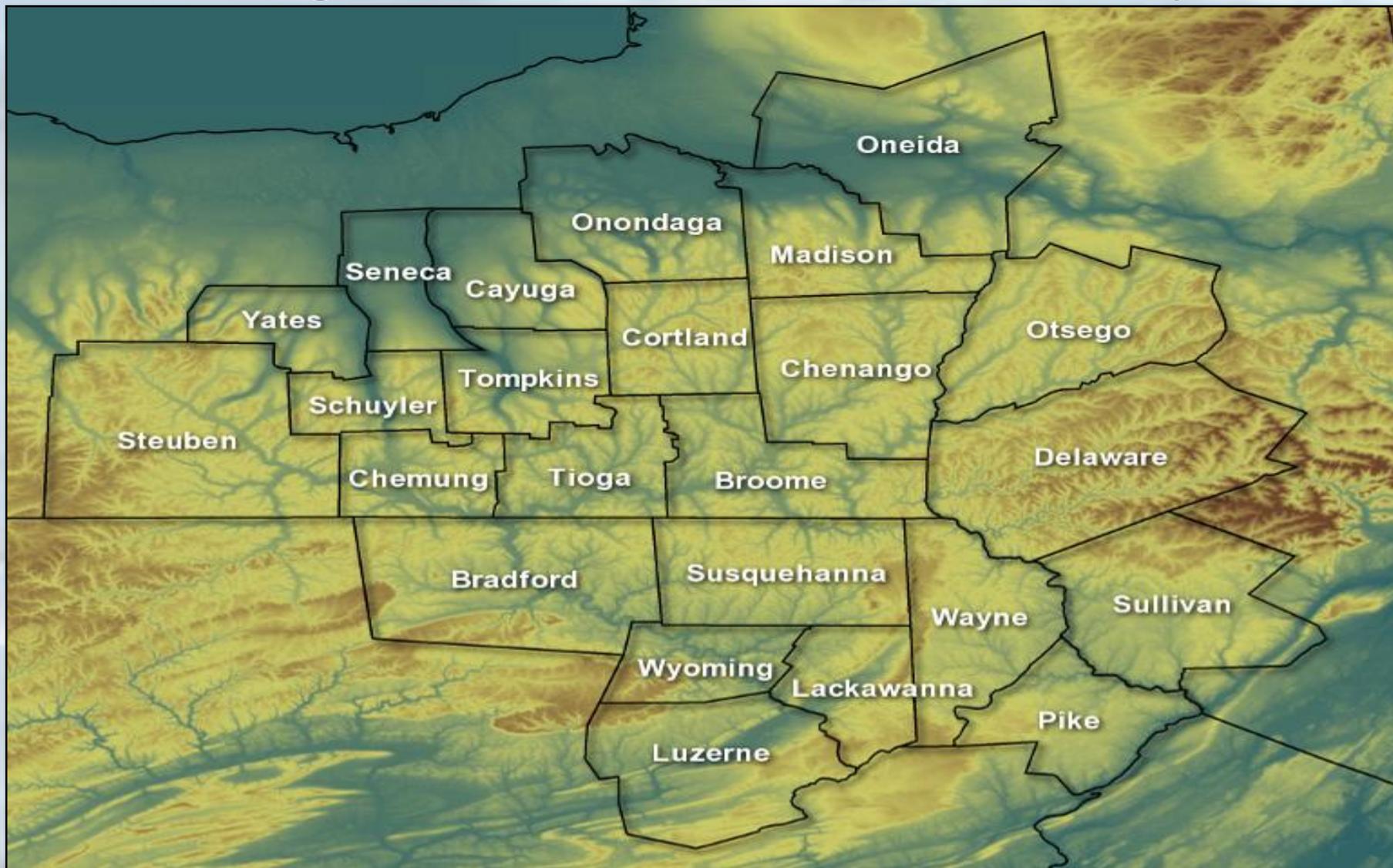


NOAA/NWS Binghamton, NY
Sandy - Briefing #7
Sunday 3:00 pm 10/28/2012

David J. Nicosia
Warning Coordination Meteorologist
NOAA-NWS Binghamton, NY



This Briefing applies to the NWS Binghamton Service Area only



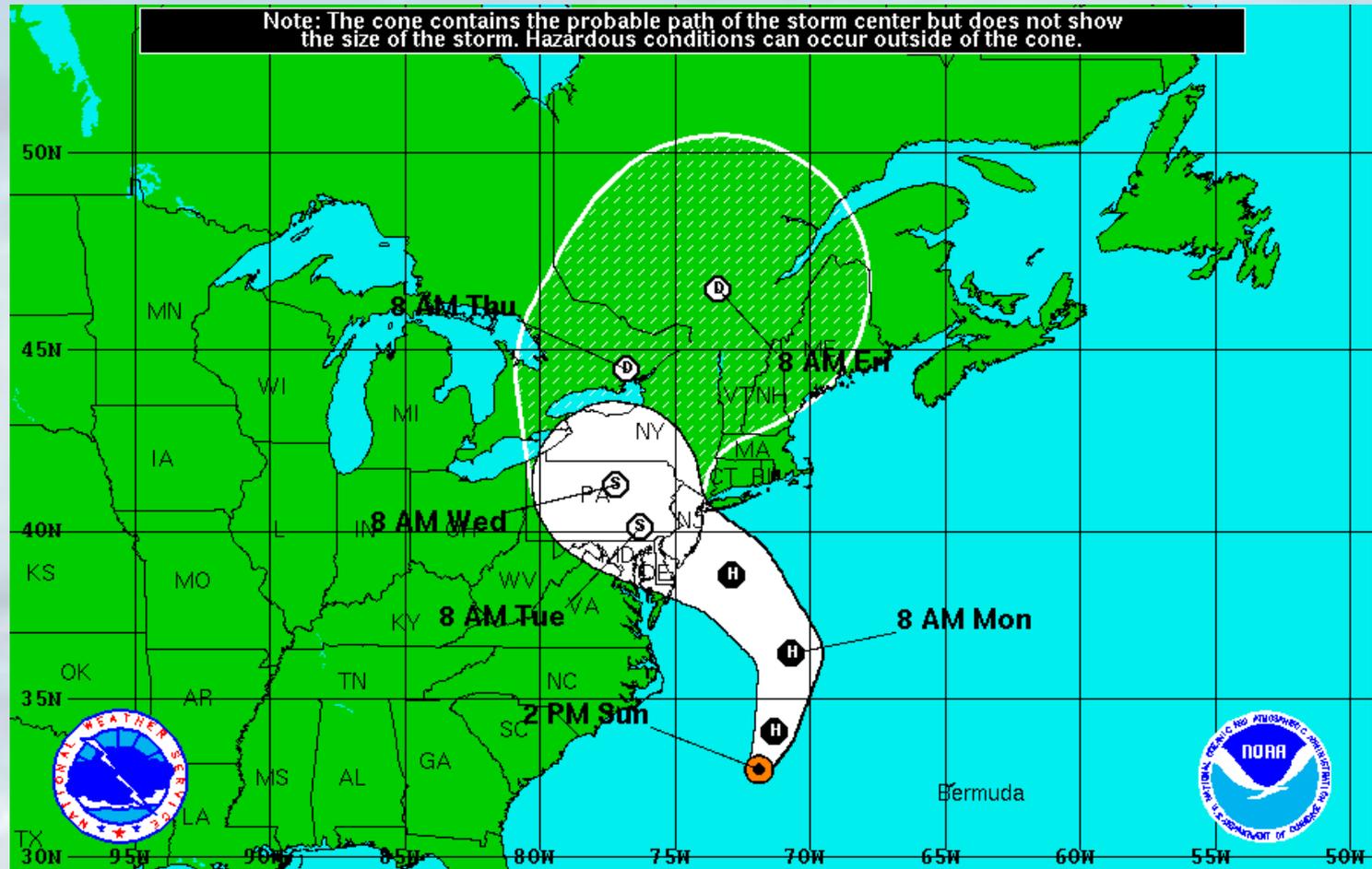


Summary- Threat increasing for damaging winds

- Looks like both NY and PA will take direct hit from Sandy.
- Sandy makes landfall as a hurricane on the NJ coast tracking to the west right into PA Monday night/early Tuesday.
- The storm will not be moving that fast. Begins to weaken after landfall.
- Heaviest rain appears to be on the western and southern side of the storm.
 - This should spare us from the heaviest rains and flooding.
 - Front remains to the west of our forecast area.
- Main Impact will be widespread damaging winds, downed trees and power lines entire Binghamton forecast area.
 - Roads could be blocked.
 - Some people will be without power for days.
 - Winds 30 to 40 mph gusts to 60 mph or higher. Peak Monday Night/Tuesday morning
- Flood potential remains
 - Still too early to be certain of this. REMAIN VIGILANT with this.
 - Most models showing bulk of rain south of our area.
 - No river flooding forecast at this point.
 - Flood watch in effect for potential flash flooding on smaller streams and creeks (whole forecast area except Onondaga, Madison and Oneida Co.)
 - Flash flooding could become serious in localized areas, especially higher terrain from Catskills to Poconos, and other highlands of northeast PA.



Hurricane Sandy 2 pm EDT Sunday



Hurricane Sandy
 Sunday October 28, 2012
 2 PM EDT Intermediate Advisory 25A
 NWS National Hurricane Center

Current Information: ●
 Center Location 32.8 N 71.9 W
 Max Sustained Wind 75 mph
 Movement NE at 14 mph

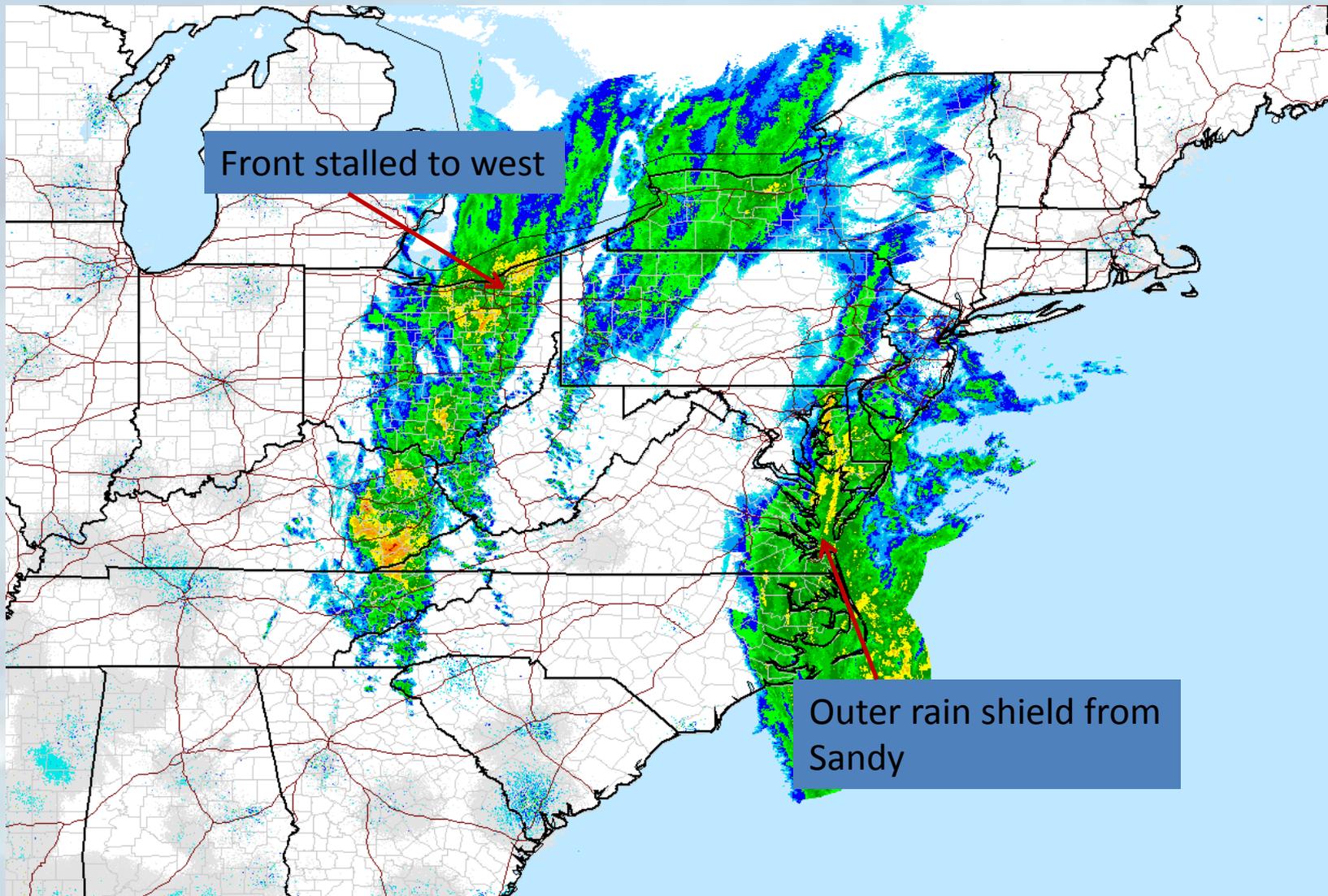
Forecast Positions:
 ● Tropical Cyclone ○ Post-Tropical
 Sustained Winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110mph

Potential Track Area:
 ▽ Day 1-3 ▽ Day 4-5

Watches:
 ■ Hurricane ■ Trop.Storm

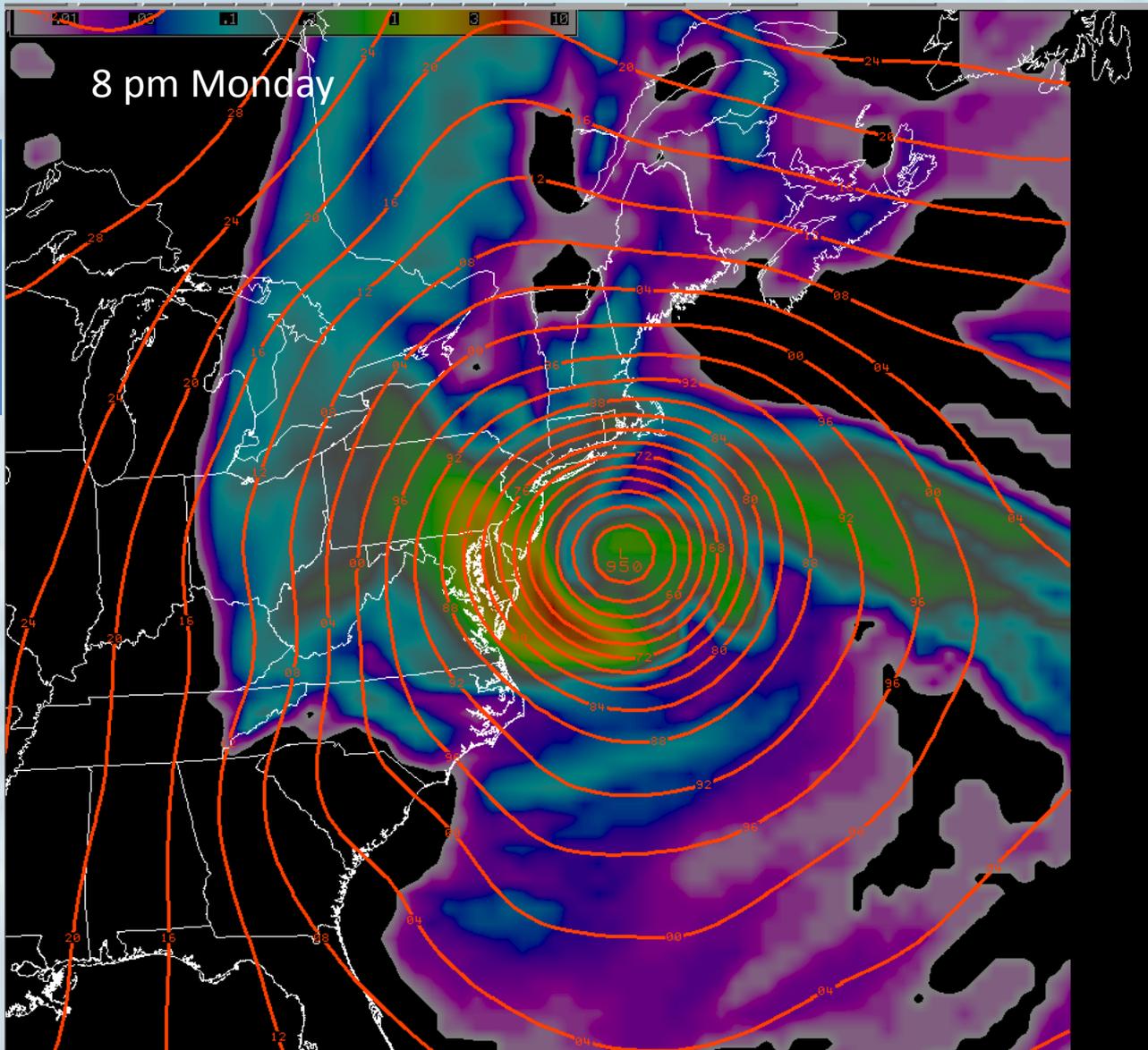
Warnings:
 ■ Hurricane ■ Trop.Storm

Current Radar



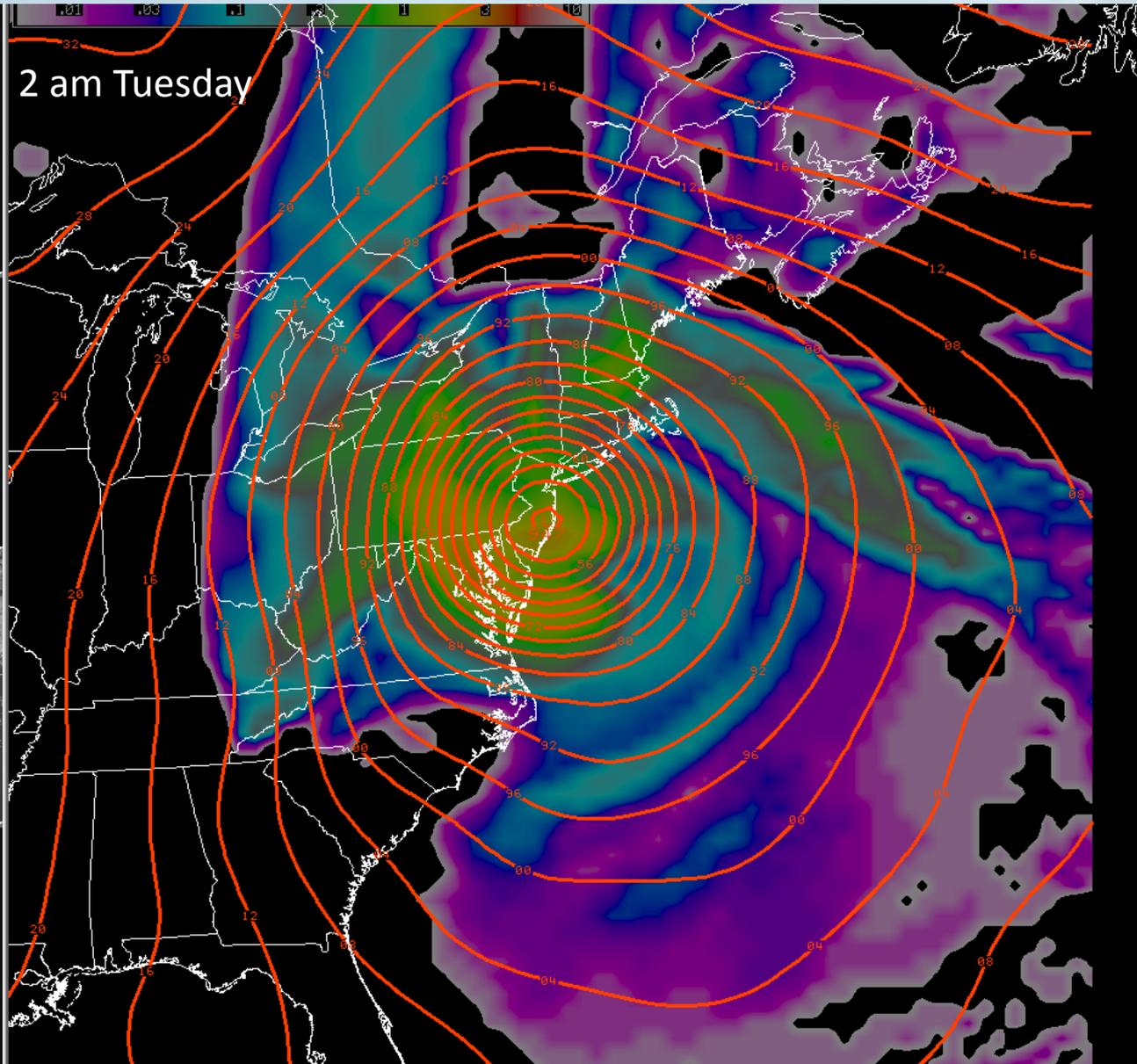
Surface Pressure Forecasts with Storm

Closer the isobars (yellow lines) the stronger the winds.





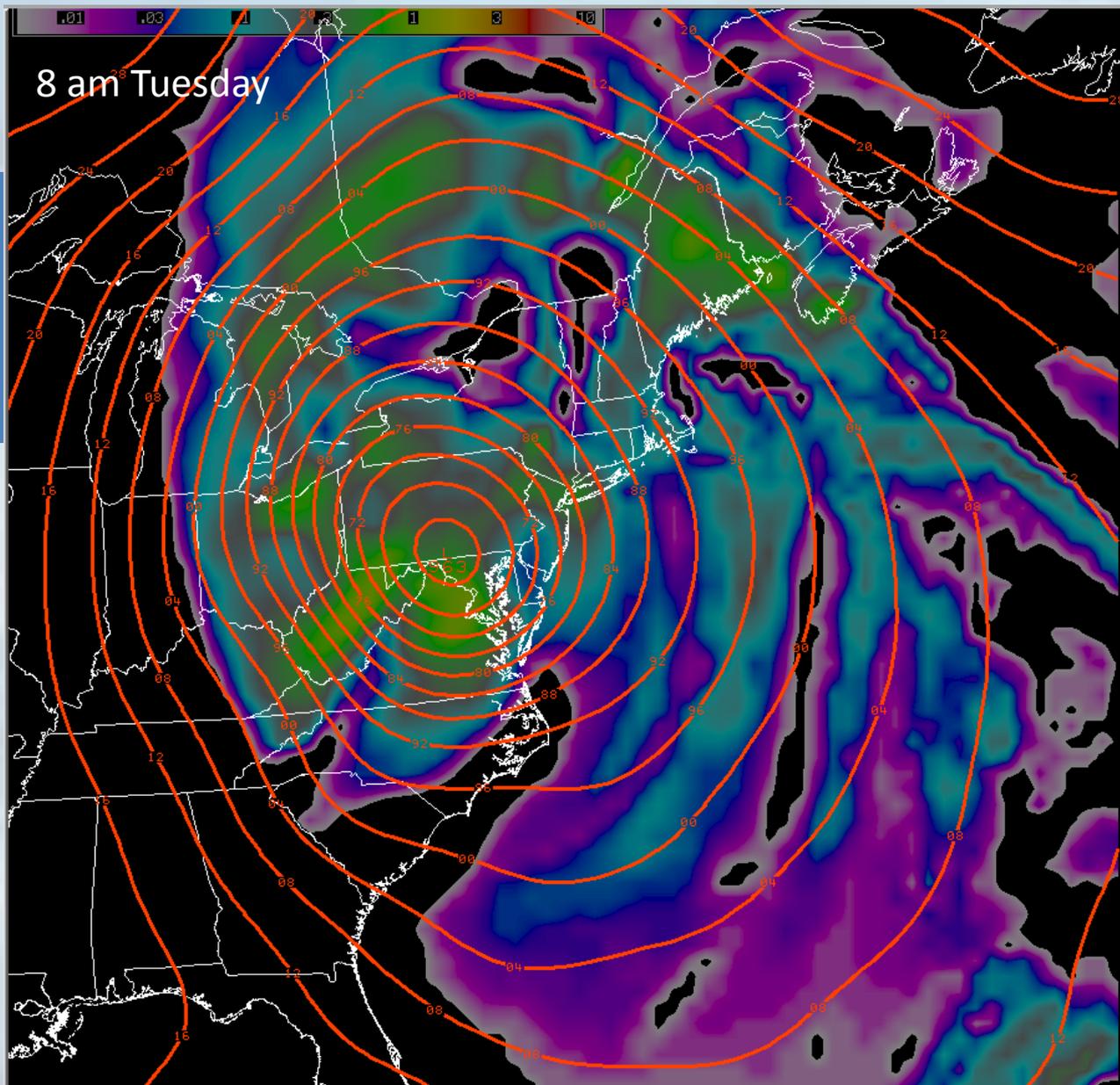
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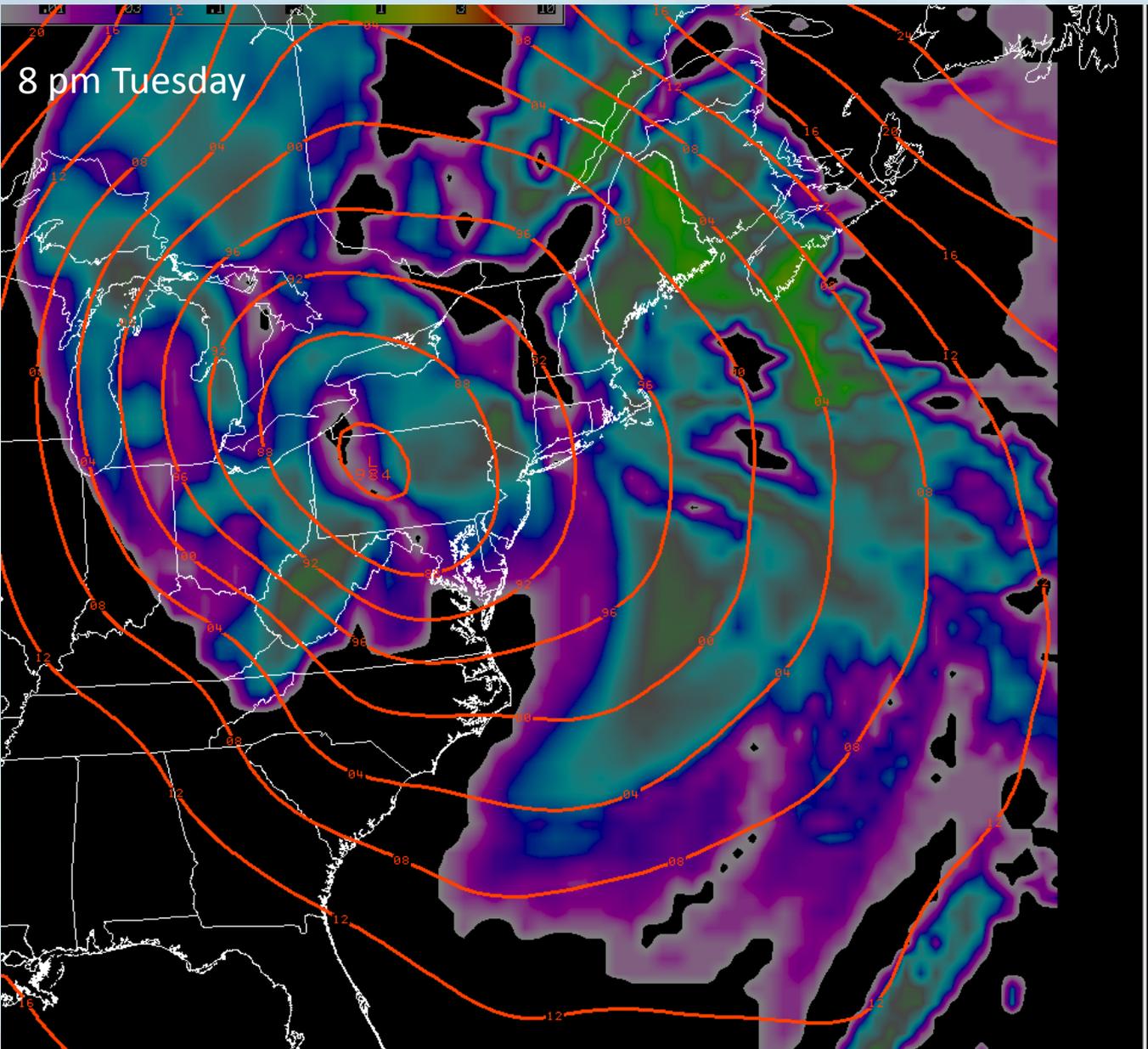
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Surface Pressure Forecasts with Storm

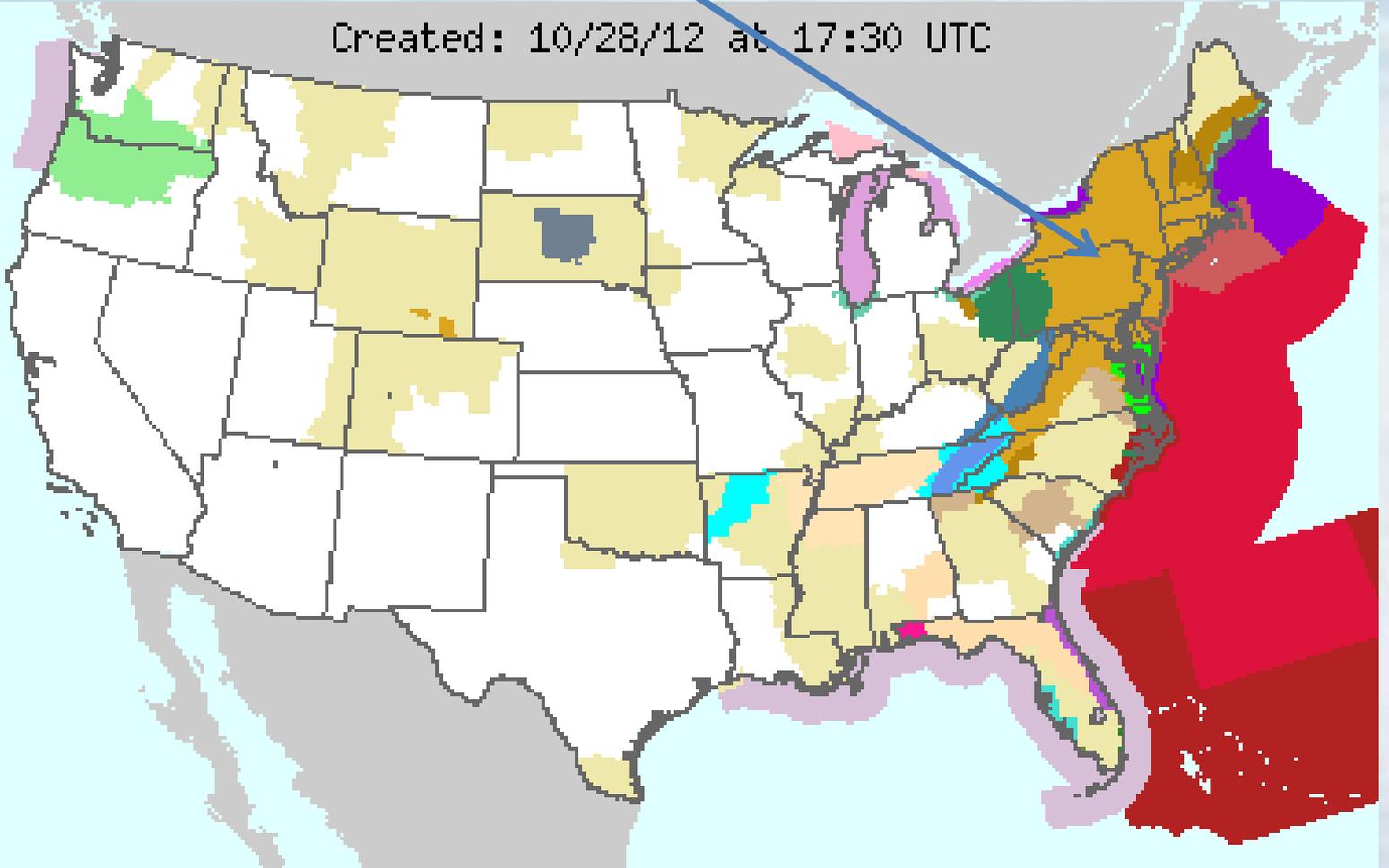


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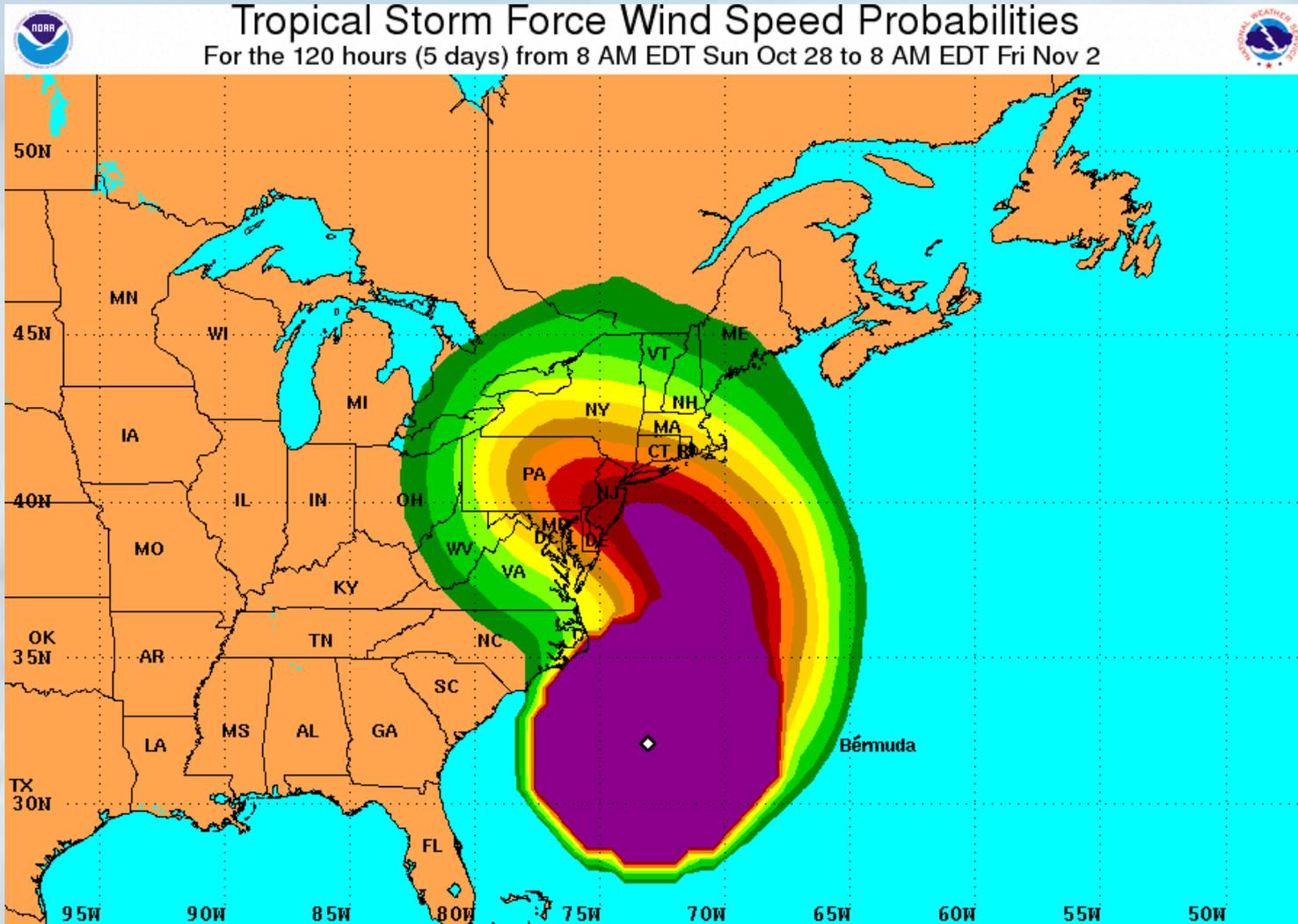
High Wind Warnings

Created: 10/28/12 at 17:30 UTC





Threat for Tropical Storm Force Winds now 40% to 70%

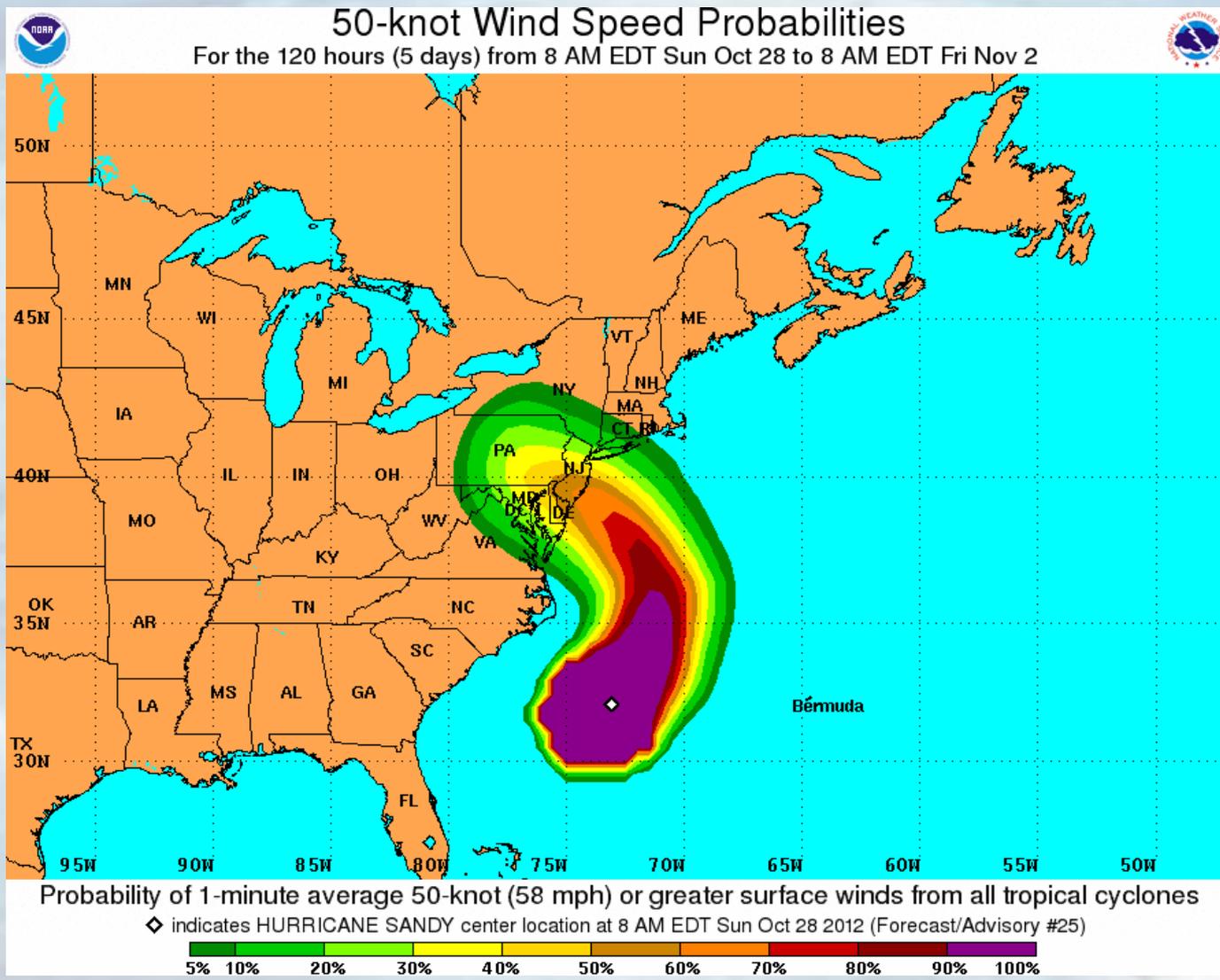


Probability of tropical storm force surface winds (1-minute average ≥ 39 mph) from all tropical cyclones

◇ indicates HURRICANE SANDY center location at 8 AM EDT Sun Oct 28 2012 (Forecast/Advisory #25)



Threat for winds greater than 58 mph increasing too...





Timing of Winds:

- Winds begin to increase noticeably during the day Monday.
- Winds peak Monday night/early Tuesday.
- Winds subside by Tuesday evening.
- Winds of 30-40 mph with gusts to 60 mph or greater over a wide area during the height of the storm, Monday night/early Tuesday.



Total Rainfall and Flood Potential

- Heaviest rain across northern PA and western NY in the Binghamton service area.
- Models keeping heaviest rain south and west of our area.
- Flood threat still there as tropical systems are notoriously difficult to predict rainfall amounts.
- Flood Watches in effect large part of the region, except far north in the Binghamton service area.

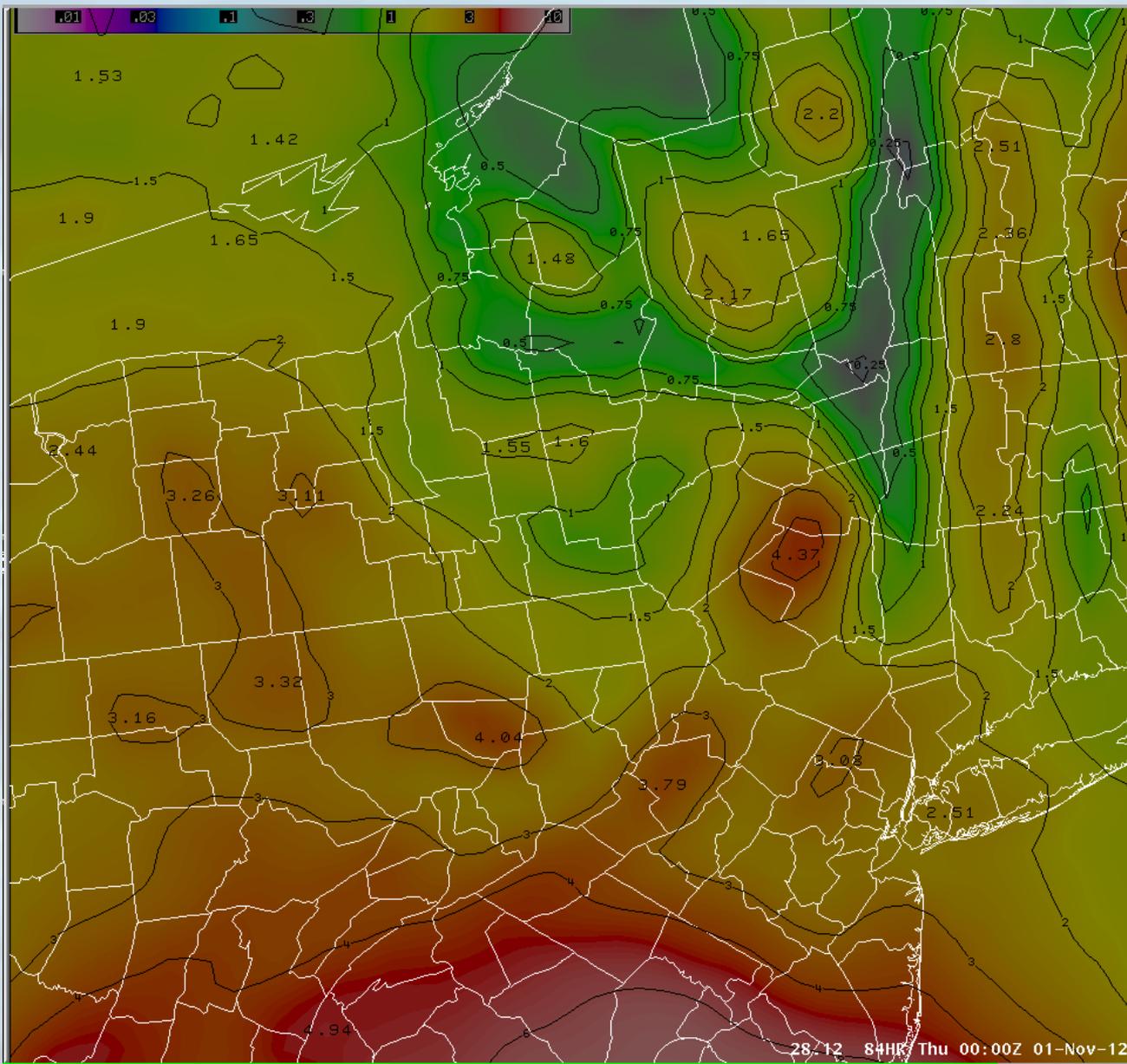


Flood Watches

- Entire area except Onondaga, Oneida and Madison counties.
- Mainly issued for the threat of flash flooding on smaller streams and creeks, urban and low-lying areas.
- Leaves clogging drains could be an issue too.
- Not much expected on major rivers at this time.
- Could change if rain shifts north. Not expected at this time.
- We need to remain vigilant in this area!

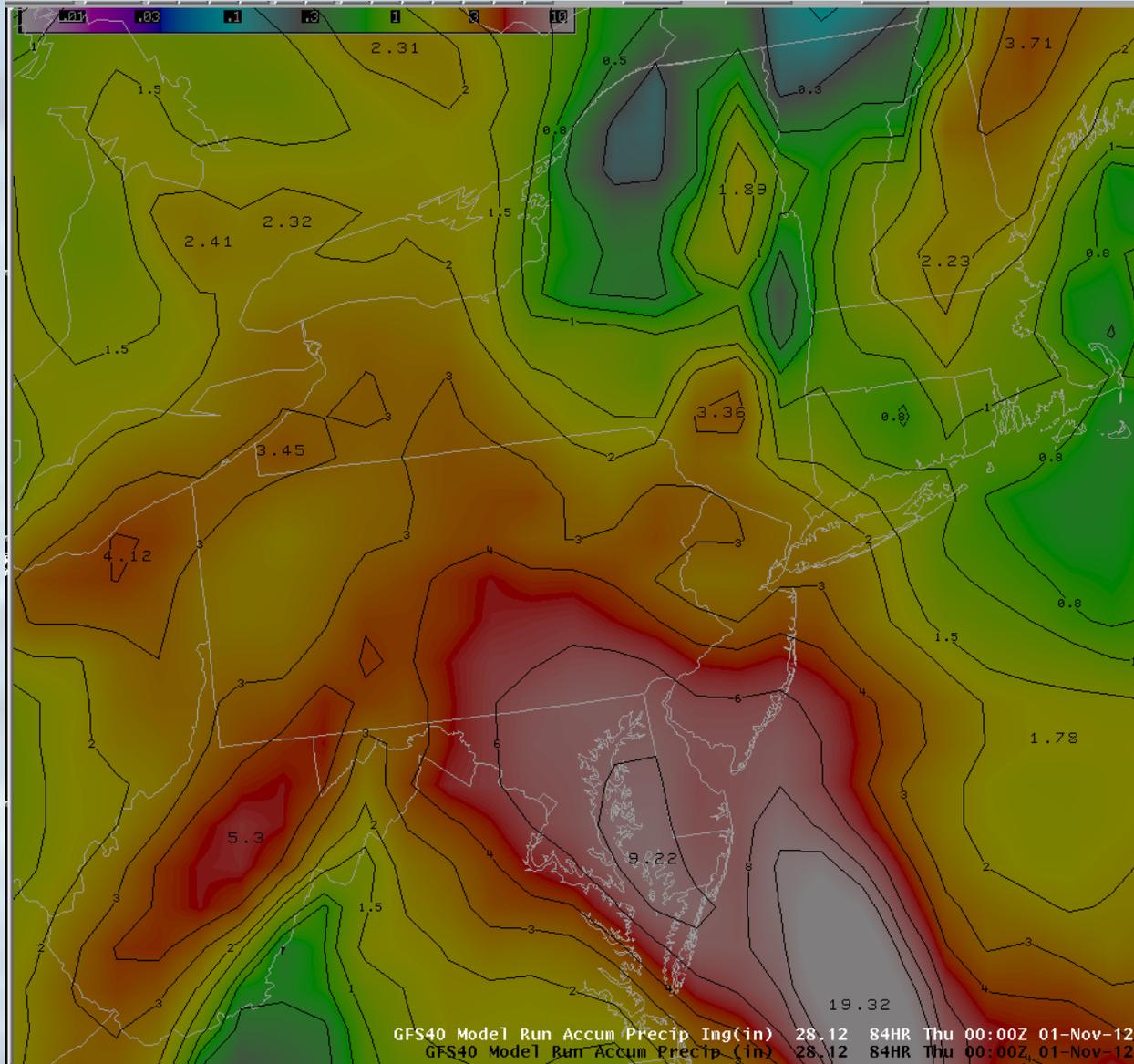


NAM Model Rainfall (in)



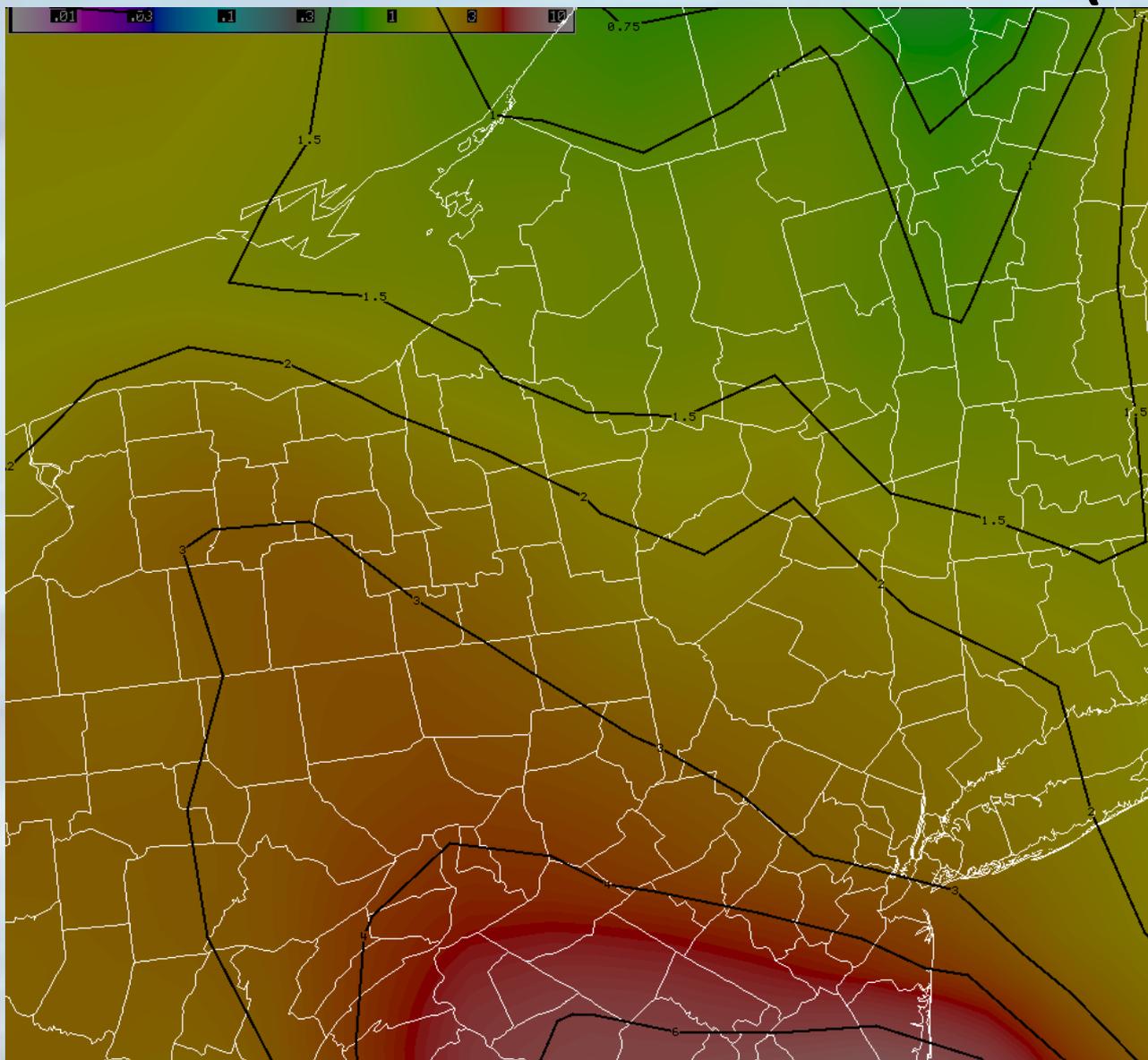


GFS model rainfall (in)

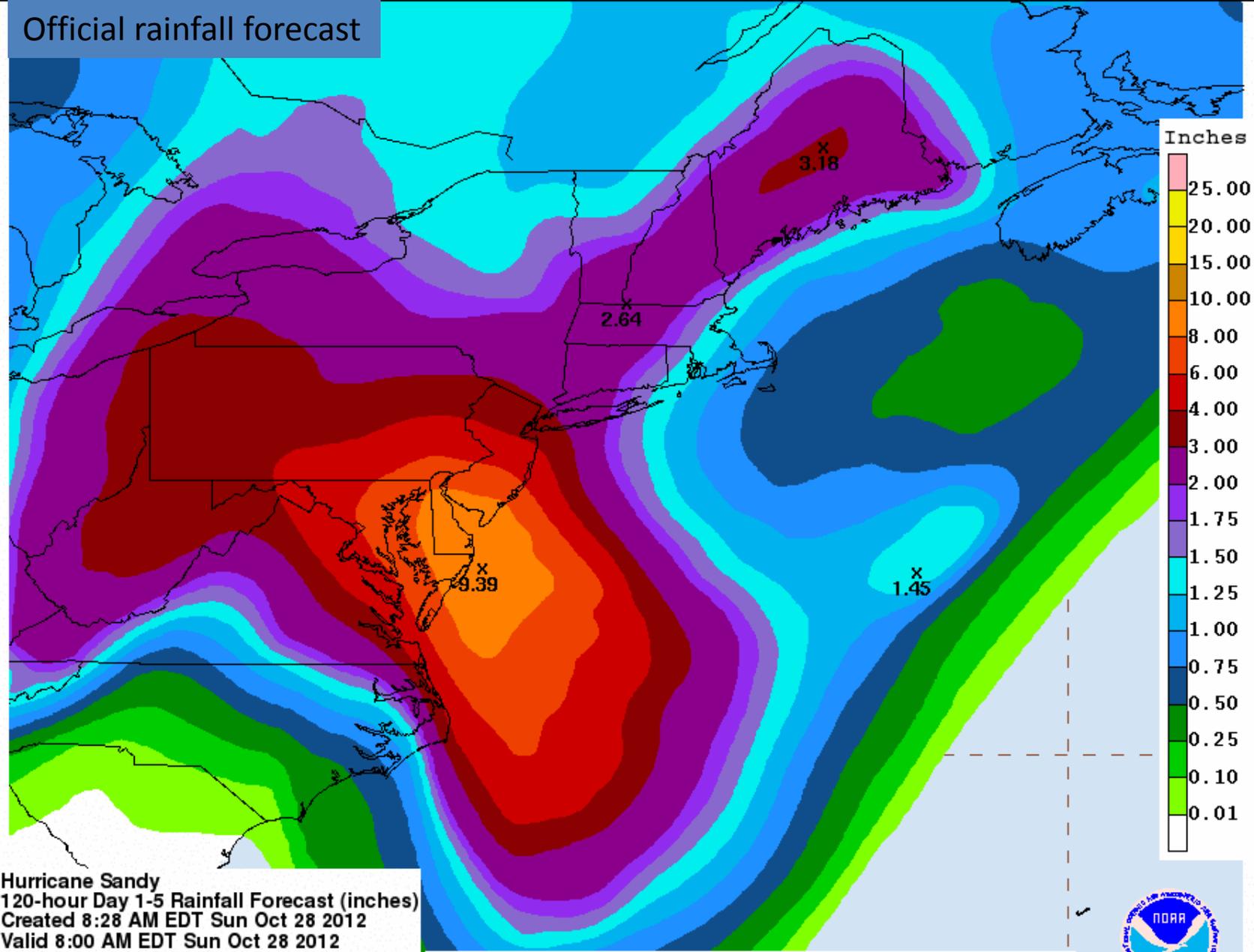




Canadian Model Rainfall (in)



Official rainfall forecast



Hurricane Sandy
120-hour Day 1-5 Rainfall Forecast (inches)
Created 8:28 AM EDT Sun Oct 28 2012
Valid 8:00 AM EDT Sun Oct 28 2012
through 8:00 AM EDT Fri Nov 2 2012
NOAA/NWS/NCEP/HPC

Local point maximum rainfall may be higher than shown.
See the NHC public advisories for the latest tropical cyclone information.





Rivers

- <http://www.erh.noaa.gov/er/marfc/>
- <http://www.erh.noaa.gov/er/nerfc/>
- <http://www.erh.noaa.gov/mmefs/>



Rainfall Thresholds for Flooding

- 1-2 inches of rain: minor flooding of small streams and creeks. No river issues.
- 2-4 inches of rain: flash flooding possible, minor river flooding.
- 4-6 inches of rain: major flash flooding possible, moderate to major river flooding.
- > 6 inches major flooding or greater.



Impacts

- **Widespread power outages** looking like the main impact on our area.
 - Roads blocked by downed trees and power lines.
 - People without power for days.
 - Temperatures expected to be highs in the 50s lows around 40 or so.
- **Flood potential lower**
 - Flash flood potential will be highest on the smaller streams and creeks and urbanized areas.
 - Catskills, Neversink River, Poconos, higher mountains of northeast PA and Steuben County, NY (Alleghenies)
- **Looking like more of a minor flood event** at best for some areas. Larger rivers not expected to flood.
 - Still need to monitor river levels and future forecasts in case heaviest rains shift north.
 - Flash flooding of small streams and creeks will be the highest threat.



Webinar Schedule

- 9 am Monday EMs
- 10 am Monday Other agencies, SKYWARN and Schools.



KEEPING SITUATIONAL AWARENESS

- Maintain situational awareness by checking these websites out.
 - NWS Binghamton: <http://weather.gov/bgm>
 - NWS Binghamton Facebook: <http://www.facebook.com/US.NationalWeatherService.Binghamton.gov>
 - Main NWS website: <http://weather.gov>
 - National Hurricane Center: <http://www.nhc.noaa.gov>
 - <http://water.weather.gov/ahps2/index.php?wfo=bgm>
 - Hydrological Prediction Center Rainfall Forecasts through next 5 days: <http://www.hpc.ncep.noaa.gov/qpf/day1-5.shtml>