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Hazardous Weather Briefing | Severe Weather Threat

June 13th, 2013

Overview: A highly anomalous storm system for June, featuring surface pressures falling near or below 990mb at the center, will move from the Ohio Valley through the Mid Atlantic/Northeast states on Thursday. The system will provide a myriad of threats including the potential for heavy rain and flooding, strong winds, and severe weather capable of producing storm-related wind damage, isolated hail and a few tornadoes. The Storm Prediction Center has issued a rare **Moderate Risk** for severe thunderstorms which extends into Central New Jersey. The northward extent (towards New Jersey and NYC) of the severe weather threat still remains uncertain, but the potential for heavy rain and strong thunderstorms exists throughout the entire forecast area.

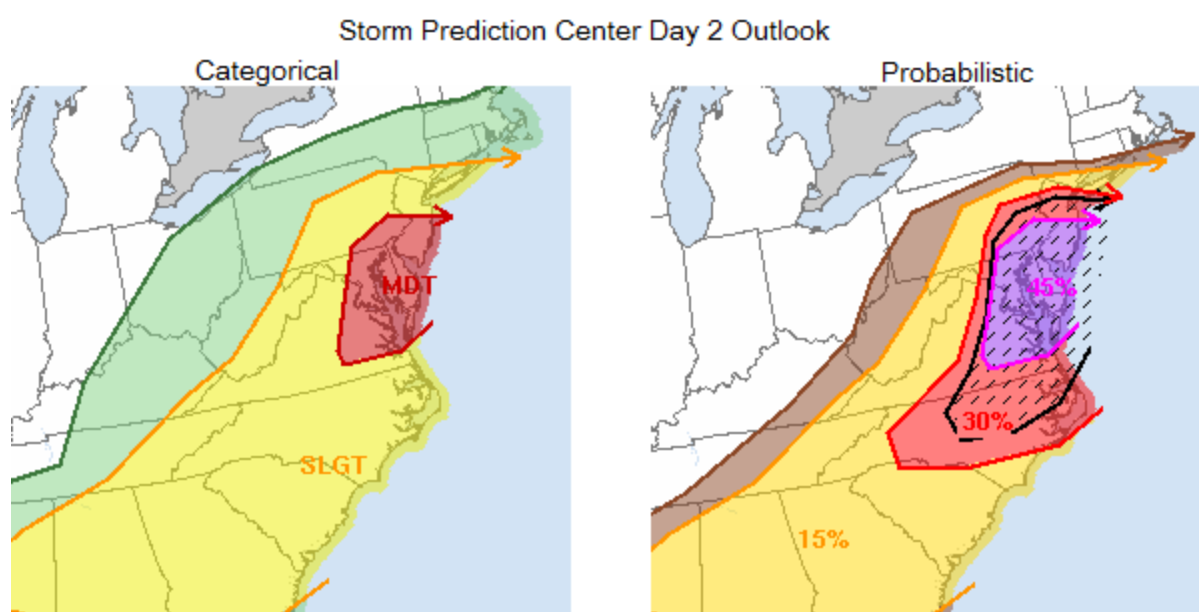
Timing: Increasing clouds are expected from late Wednesday evening into Thursday morning. Periods of rain, heavy at times, are then expected during the day on Thursday. Parts of Central and Southern New Jersey may experience a brief period of clearing on Thursday afternoon, south of the warm frontal boundary. However, strong to severe thunderstorms capable of producing strong winds and a few tornadoes are then expected in the late afternoon hours. Farther to the north, near the warm front over Northern NJ, New York City, Southeast NY and CT...periods of rain are expected through Thursday night with the potential for a few thunderstorms into early Friday morning. Clearing is expected behind the system by Friday.

Hazards: This storm system is expected to provide multiple threats to the forecast area, which will vary greatly based on location.

Rain/Flooding: Heavy rain is expected to be a significant threat with this system on Thursday -- specifically near and north of the warm front. Rainfall amounts in excess of 2 to 3 inches are possible with localized higher amounts expected. Given the wet nature of the weather pattern over the last week or two, flooding is possible especially on low lying roads or poor drainage areas. Flash flooding will also be possible in any thunderstorms that develop throughout the area. Travel delays and hazards are expected.

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Severe Thunderstorms: There is expected to be a threat for an organized severe thunderstorm event, if not a localized outbreak of severe thunderstorms across the Mid Atlantic states extending northward into New Jersey. The Storm Prediction Center's Day 2 Outlook places much of the Mid Atlantic in a Moderate Risk for severe weather with the potential for widespread damaging winds and a few tornadoes. The graphic, with the categorical outlook on the left and probabilistic outlook on the right, can be seen below. What remains in question is the northward extent of the potential for severe weather. North of the moderate risk area, we are expecting a lower likelihood of severe thunderstorms, as instability in the atmosphere is much lower north of a warm front which is expected to be located over Central New Jersey. Regardless, strong winds and the potential for a few tornadoes are expected throughout the Moderate Risk area on Thursday. Stay tuned for further updates.



Wind: There is an additional threat for synoptic-level winds as well, not related to any thunderstorms. With the strong low pressure system passing near the area, a southeasterly wind is expected as one travels farther northeast. There is the potential for some winds in excess of 30 to 40 miles per hour at times over Long Island and Connecticut. Over New York City and much of New Jersey, the close passage of the surface low suggests that synoptic winds should be somewhat low in comparison to other areas.

Stay tuned for further updates on our social networks including Facebook and Twitter. A second Storm Alert Briefing is likely to be issued by late Thursday evening or Friday morning.