Very Strong Wind/Heavy Rain/Severe Weather Late Tonight and Monday

Decision Support Briefing #3  
As of 5 PM Sunday, April 12, 2020.

**What Has Changed?**

- The High Wind Watch has been upgraded to a High Wind Warning/Wind Advisory.
- The Marine Storm Watch has been upgraded to a Marine Storm Warning.
- The expected rainfall amounts have increased from around I-95 northwestward.
- A Coastal Flood Advisory has been issued for the upper eastern shore of Chesapeake Bay and parts of Delaware Bay and the far lower Delaware River.
# Main Points

| Hazard                  | Impacts                                                                 | Location                                                          | Timing                                      |
|-------------------------|-------------------------------------------------------------------------|                                                                  |                                            |
| **Strong Winds**        | Southerly wind 25 to 35 mph with gusts around 45 to 65 mph. The strong wind gusts may bring down trees and utility lines. Widespread power outages are possible. | Eastern PA, NJ, DE and northeastern MD.                          | Monday, mainly in the morning and early afternoon. |
| **Heavy Rainfall**      | Moderate to heavy rain with amounts generally between 1 and 2.5 inches. Localized roadway and small stream flooding is possible. | Eastern PA, NJ, DE and northeastern MD.                          | Late tonight into Monday morning.           |
| **Severe Thunderstorm** | Scattered thunderstorms may enhance any wind gusts to 65 to 80 mph resulting in possible damage to structures. There is the potential for large hail and isolated tornadoes. | Eastern PA, NJ, DE and northeastern MD.                          | Monday.                                    |
| **Marine**              | Southerly wind 30 to 40 knots with storm force gusts of 55 to 70 knots. | Coastal waters of NJ and DE, and Delaware Bay.                   | Monday.                                    |
| **Coastal Flooding**    | Minor tidal flooding is expected due to the strong southerly wind. | The upper eastern shore of Chesapeake Bay and parts of Delaware Bay/River. | Around the times of high tide on Monday.    |
# Summary of Greatest Impacts

## Strong Winds: east PA, NJ, DE, northeast MD

- **None**
- **Limited**
- **Elevated**
- **Significant**
- **Extreme**

## Heavy Rain: east PA, NJ, DE, northeast MD

- **None**
- **Limited**
- **Elevated**
- **Significant**
- **Extreme**

## Severe Tstms: east PA, NJ, DE, northeast MD

- **None**
- **Limited**
- **Elevated**
- **Significant**
- **Extreme**

## Marine: coastal waters NJ/DE & Delaware Bay

- **None**
- **Limited**
- **Elevated**
- **Significant**
- **Extreme**

## Coastal Flooding: northeast MD & Del Bay/Rvr

- **None**
- **Limited**
- **Elevated**
- **Significant**
- **Extreme**
Heavy Rain

Storm Total Rainfall
Tonight into Monday

Map showing heavy rain forecast for Philadelphia and Mount Holly area.
Severe Thunderstorm Outlook

Understanding Severe Thunderstorm Risk Categories

- **THUNDERSTORMS (no label)**: No severe thunderstorms expected.
- **1 - MARGINAL (MRGL)**: Isolated severe thunderstorms possible.
- **2 - SLIGHT (SLGT)**: Scattered severe storms possible.
- **3 - ENHANCED (ENH)**: Numerous severe storms possible.
- **4 - MODERATE (MDT)**: Widespread severe storms likely.
- **5 - HIGH (HIGH)**: Widespread severe storms expected.

* NWS defines a severe thunderstorm as one with winds of at least 58 mph, hail of at least an inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

National Weather Service
www.spc.noaa.gov
Coastal Flooding

Coastal Flood Threat
Valid: 04/13/2020 08:00 AM - 04/13/2020 06:00 PM EDT
Event Summary

- Southerly wind 25 to 35 mph with gusts around 45 to 65 mph on Monday may bring down trees and utility wires. Widespread power outages are possible.

- Rainfall amounts of generally 1 to 2.5 inches may result in localized roadway and small stream flooding from late tonight into Monday morning. The heaviest amounts should fall from I-95 northwestward.

- Scattered thunderstorms may enhance any wind gusts to 65 to 80 mph, possibly resulting in minor structural damage. There is the potential for large hail and isolated tornadoes.

- Southerly wind 30 to 40 knots on the coastal waters of New Jersey and Delaware and on Delaware Bay on Monday, with storm force wind gusts of 50 to 70 knots.

- Minor coastal flooding is expected along Maryland’s upper eastern shore, Delaware Bay and the far lower Delaware River around the times of high tide on Monday. Spotty minor flooding may occur elsewhere in the region.
Contact and Next Briefing Information

Next Briefing
This is the final briefing, unless the forecast changes significantly.

Disclaimer: The information contained in this briefing is time-sensitive, do not use after Monday, April 13, 2020.