Flooding and Thunderstorms Today into Saturday

Decision Support Briefing #4
As of: 10 AM Friday, April 19, 2019

What Has Changed?
✓ Flash Flood Watch expanded to the rest of New Jersey, Delaware, and eastern shore of Maryland.
<table>
<thead>
<tr>
<th>Hazard</th>
<th>Impacts</th>
<th>Location</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy rain/flash flooding</td>
<td>1-2 inches of rain (locally up to 3 inches possible), which may result in flash flooding especially in urban areas. Flooding of small creeks and streams is also possible in the areas of heaviest rainfall.</td>
<td>Greatest threat is across eastern PA and northern NJ but may be possible in other areas across the region.</td>
<td>This afternoon into Saturday. The greatest threat is tonight.</td>
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<td>Coastal/Tidal flooding</td>
<td>Minor tidal flooding is likely for much of the area. There is a chance for localized moderate tidal flooding tonight.</td>
<td>For all NJ coast and the tidal Delaware river, most of Delaware Bay.</td>
<td>Tonight’s high tide. Spotty minor flooding is possible with this morning and Saturday morning high tides.</td>
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<td>Severe Storms</td>
<td>Some of the storms could be severe, with damaging winds as the primary hazard. An isolated tornado cannot be ruled out.</td>
<td>The highest threat is across Delaware and Maryland, but may extend farther north across SE PA and southern NJ.</td>
<td>This afternoon and tonight.</td>
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<tr>
<td>Marine Hazards</td>
<td>Sustained southerly winds 20-30 knots. Significant wave heights above 10 feet. Navigation could be difficult, especially for smaller vessels.</td>
<td>DE and NJ coastal waters, DE Bay.</td>
<td>Today into Saturday morning.</td>
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<td>Overview</td>
<td>None</td>
<td>Limited</td>
<td>Elevated</td>
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<td><strong>Flash flooding:</strong> Across the region</td>
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<td><strong>Tidal flooding:</strong> Coastal NJ &amp; DE, and tidal DE river</td>
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<td><strong>Severe Storms:</strong> Highest risk in Delmarva</td>
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<td><strong>Marine:</strong> DE&amp;NJ coastal waters, DE Bay</td>
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</tbody>
</table>

None | Limited | Elevated | Significant | Extreme

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**Summary of Greatest Impacts**

- **Flash flooding:** Across the region
- **Tidal flooding:** Coastal NJ & DE, and tidal DE river
- **Severe Storms:** Highest risk in Delmarva
- **Marine:** DE&NJ coastal waters, DE Bay
Coastal Flooding

- Tonight’s high tide.
- This graphic shows the expected degree of flooding on the oceanfront, bays, and estuaries along the highlighted areas.
- Heavy rain near the time of high tide could further exacerbate tidal flooding and is not reflected in this forecast.
- On the Chesapeake Bay, there is a chance for minor tidal flooding with the Saturday high tide.

Legend:
- **Green**: No Flooding
- **Blue**: Spotty Minor Flooding
- **Yellow**: Minor Flooding
- **Red**: Moderate Flooding
- **Purple**: Major Flooding
Severe Weather Outlook

Friday, April 19, 2019

Understanding Severe Thunderstorm Risk Categories

1 - MARGINAL (MRGL)
No severe thunderstorms expected
Isolated severe thunderstorms possible
Limited in duration and/or coverage

2 - SLIGHT (SLGT)
Scattered severe storms possible
Short-lived and/or not widespread, isolated intense storms possible

3 - ENHANCED (ENH)
Numerous severe storms likely
More persistent and/or widespread, a few intense

4 - MODERATE (MDT)
Widespread severe storms expected
Long-lived, widespread and intense

5 - HIGH (HIGH)
Widespread severe storms expected
Long-lived, very widespread and particularly intense

* NOAA defines a severe thunderstorm as one that produces a strong wind gust, a tornado, and/or a hailstorm. 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

Severe Weather Outlook

Philadelphia/Mount Holly Weather Forecast Office

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NWSMountHolly
Heavy rain leading to flash flooding is possible this afternoon into Saturday, with the highest threat tonight.

Tidal flooding is expected for DE Bay, DE River, NJ Shore, and Raritan Bay.
- For the Atlantic Oceanfront, Delaware Bay, southern shores of the Raritan Bay, and tidal Delaware River, the highest threat is with the high tides tonight.
- For the northeastern Chesapeake Bay there is a chance for minor tidal flooding with the Saturday morning high tide.

Some of the thunderstorms this afternoon and tonight may be severe with damaging winds the primary hazard. The highest severe threat in our region is across Delaware and Maryland.

Marine: Some gale force gusts are possible especially tonight. Seas at or above 10 feet by later today and tonight on the Atlantic coastal waters.
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