Coastal Flooding and high winds today and tonight

Decision Support Briefing #4
As of 6 AM Friday, October 29, 2021

What Has Changed?
✓ Increasing Concern for coastal and tidal flooding. Coastal flood warnings have been expanded.
✓ Wind Advisory has been expanded
# Main Points

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<th>Hazard</th>
<th>Impacts</th>
<th>Location</th>
<th>Timing</th>
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<td>Heavy Rain</td>
<td>Moderate to heavy rain may result in flooding of small streams and creeks, and areas of poor drainage. River levels may rise once again.</td>
<td>Eastern Pennsylvania, northeastern Maryland, Delaware and New Jersey.</td>
<td>This afternoon into this evening.</td>
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<td>Strong Winds</td>
<td>Wind gusts 45 to 60 mph may result in tree and power wire damage. Scattered power outages are possible.</td>
<td>The highest risk is in Central and southern Delaware and far southeastern NJ.</td>
<td>Friday afternoon into Friday evening.</td>
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<td>Tidal Flooding</td>
<td>Widespread minor to major tidal flooding will develop. The most significant impacts are expected to be along back bays and tidal tributaries.</td>
<td>Tidal flooding will be possible across tidal and coastal areas in our region, but the most significant impacts are expected along the tidal Delaware River and adjacent tributaries and the Barnegat Bay and Little Assawoman Bay.</td>
<td>Through tonight, though minor tidal flooding may linger into Saturday.</td>
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<td>Marine Winds/Seas</td>
<td>Gale force wind gusts and rough seas are expected. A period of Storm Force wind gusts will occur over DE and SE NJ coastal ocean waters this afternoon.</td>
<td>The coastal waters of New Jersey and Delaware, and Delaware Bay.</td>
<td>Friday into Friday night.</td>
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Summary of Greatest Impacts

Heavy Rain: eastern PA, eastern MD, DE and NJ
- None
- Limited
- Elevated
- Significant
- Extreme

Strong Winds: Coastal NJ, DE, Northeastern MD
- None
- Limited
- Elevated
- Significant
- Extreme

Tidal Flooding: Tidal/coastal areas of DE/NJ/PA/MD
- None
- Limited
- Elevated
- Significant
- Extreme

Marine: NJ and DE coastal waters and Delaware Bay
- None
- Limited
- Elevated
- Significant
- Extreme
Rainfall Amounts

Forecast Storm Total Rainfall
Through Tomorrow

Rainfall Amounts:
- 0.5-1" in Philadelphia
- 1-1.5" in Wilmington
- 1-1.5" in Easton
- 1" in Allentown
- 1.5" in West Chester
- 1.5" in Reading
- 1.5" in Trenton
- 1.5" in Morristown
- 1.5" in Wantage
- 0.5-1" in Dover
- 0.5-1" in Cape May
- 0.5-1" in Atlantic City

Source: NWS Mount Holly, National Oceanic and Atmospheric Administration
Widespread minor to major flooding:

- With the high tide along the oceanfront and Delaware Bay on Friday afternoon
- With the high tide on the tidal Delaware River on Friday evening
- With the high tide on the upper eastern shore of Chesapeake Bay on Friday night

This graphic shows the potential magnitude of flooding on the oceanfront, bays and estuaries along the highlighted areas for the high tides on Friday afternoon and Friday night.
Strong Winds through this Evening

- Period of strongest winds is expected this afternoon into this evening.
- The strongest winds will be over the marine areas and along the immediate coast, especially in Cape May County NJ and Sussex County DE.
- Wind Direction through this will be out of the east, but will diminish out of the southeast tonight.
Event Summary

✓ A storm system crossing through the region through tonight will bring coastal flooding and strong winds. There is also a smaller risk for heavy rain and severe thunderstorms.

✓ Widespread minor to major tidal flooding is expected with high tide cycles today. The most significant tidal flooding impacts are expected along the tidal Delaware River and adjacent tidal waterways, Barnegat Bay, Little Assawoman Bay, and other back bays.

✓ East winds will increase to 20 to 30 MPH with gusts of 30 to 60 MPH possible. The strongest winds will occur along the immediate DE and extreme SE NJ coasts. The strongest winds and gusts are expected this afternoon and evening.

✓ A period of heavy rain is possible this afternoon and evening. Widespread rainfall totals of 0.5 to 2 inches are forecast with locally higher amounts of 2 to 3 inches possible. This could result in flooding of small streams and creeks, and areas of poor drainage. River levels may begin to rise again.

✓ A few strong to potentially severe thunderstorms are possible for the eastern shores of MD and southern DE.
Contact and Next Briefing Information

Next Briefing
When: Final Briefing

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