

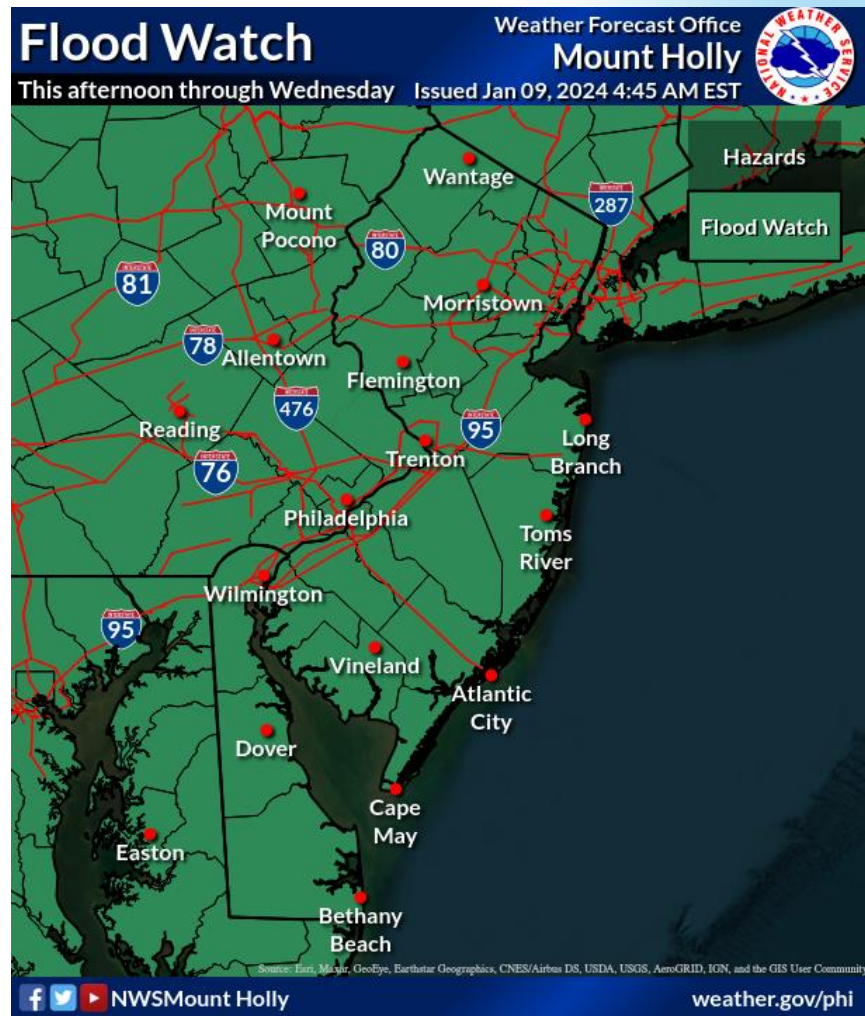
Powerful Storm System

January 9-10, 2024





Decision Support Briefing #4 [updated] As of: 10:00 AM, January 9, 2024

What Has Changed?

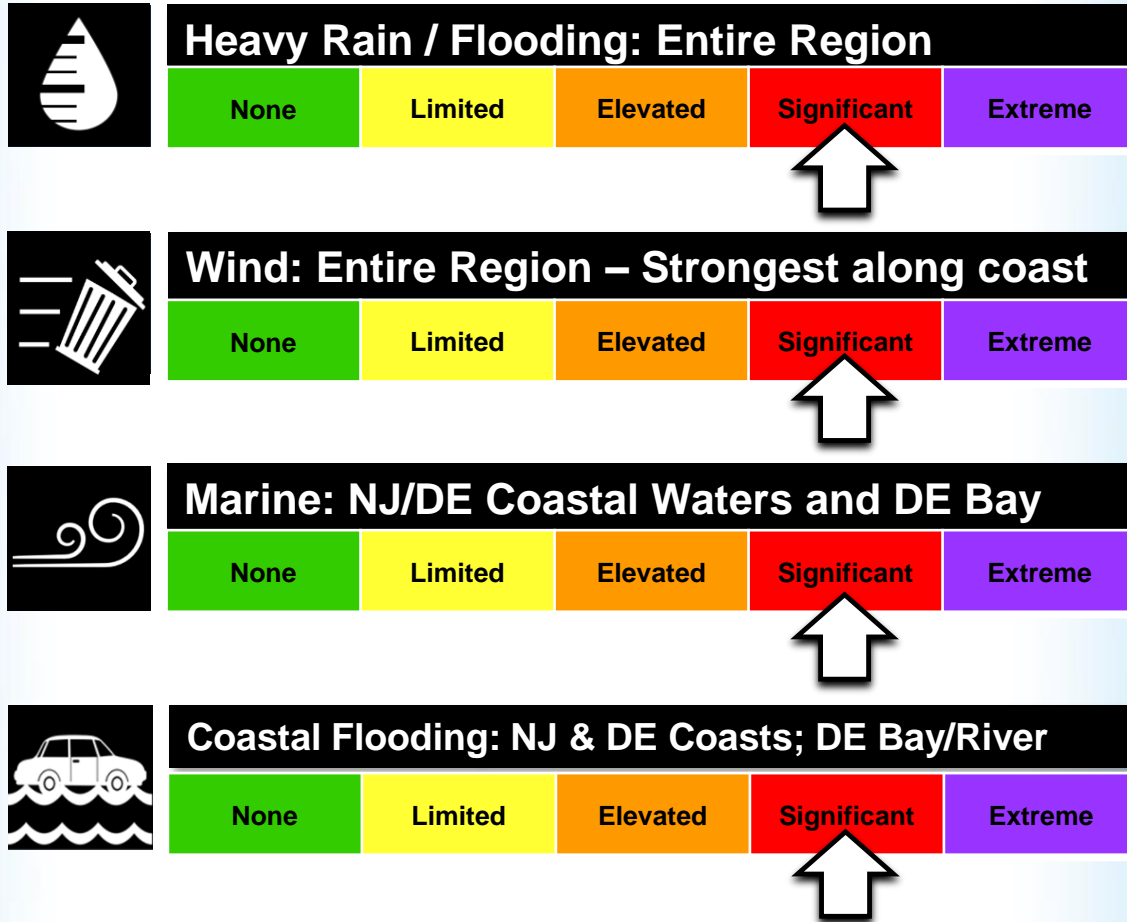
- ✓ Major coastal flooding possible for upper portions of the Chesapeake Bay with high tide tonight.
- ✓ Coastal Flood Warning now in effect for Ocean County for high tide cycles tonight through Wednesday morning.
- ✓ Coastal Flood Advisory now in effect for Middlesex, Monmouth, southeast Burlington, Atlantic, and Cape May counties for high tide cycles tonight through Wednesday morning.



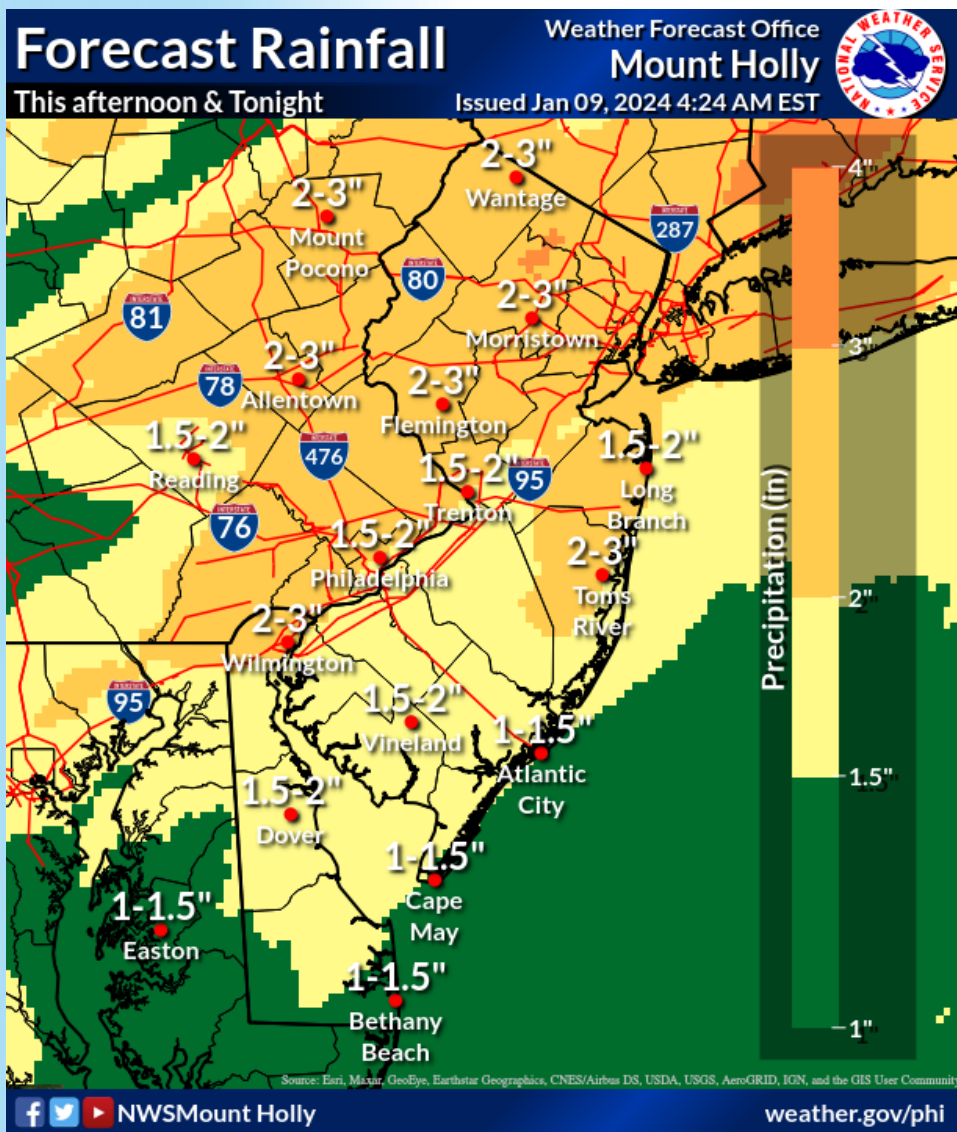
Main Points

Hazard	Impacts	Location	Timing
Heavy Rain/ Flooding 	<p>1 to 3 inches expected, with up to 4 inches possible in some areas. Moderate to major river flooding expected. Urban and small stream flooding.</p>	<p>Entire region. The most significant river flooding potential for northern NJ and southeast PA.</p>	<p>Heaviest rain occurs tonight. River flooding risk continues through Wednesday and beyond.</p>
Wind 	<p>Strong to damaging southeast to south winds. Tree damage and power outages possible, especially closer to the coast.</p>	<p>Inland areas: 45-55 mph gusts. Coastal areas: 55-65 mph gusts.</p>	<p>Strongest Winds tonight.</p>
Marine 	<p>Storm-force wind gusts. Dangerous seas building to 15-20 feet; lower on Delaware Bay.</p>	<p>All Atlantic coastal waters of New Jersey and Delaware, including Delaware Bay.</p>	<p>This afternoon and tonight. High seas and Gales linger into Wednesday.</p>
Coastal Flooding 	<p>Widespread minor to moderate coastal flooding. Locally major flooding possible.</p>	<p>Worst flooding along the eastern shore of Maryland & near the tidal Delaware River.</p>	<p>Later this afternoon into Wednesday. Worst conditions with tonight's high tide.</p>

Summary of Greatest Impacts



Storm Total Rainfall Amounts

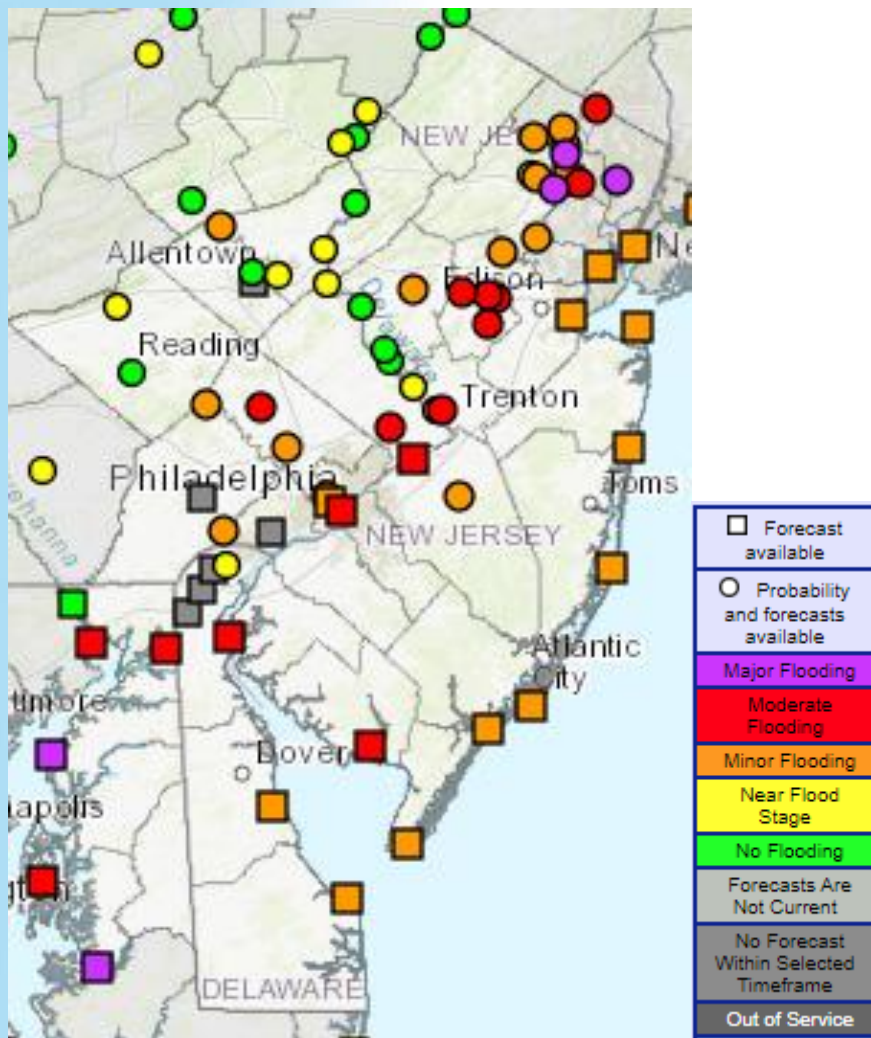


Moderate to major river flooding expected, especially for portions of eastern PA and northern NJ. Urban and small stream flooding.

Heaviest rain focused across northern NJ and northeast PA due to very strong southeast flow into the higher terrain.

A period of higher rainfall rates tonight may increase the flood risk, especially in urban areas.

Moderate to Major River Flooding Tonight through Wednesday



Some rivers will rise above flood stage late tonight. Many additional sites will flood on Wednesday, with some areas of moderate to major river flooding.

Some smaller streams and creeks will crest early on Wednesday, while others will continue to rise. Slower-responding rivers may not crest until Wednesday night or Thursday.

For the latest river forecasts, visit water.weather.gov



High Winds This Afternoon and Tonight

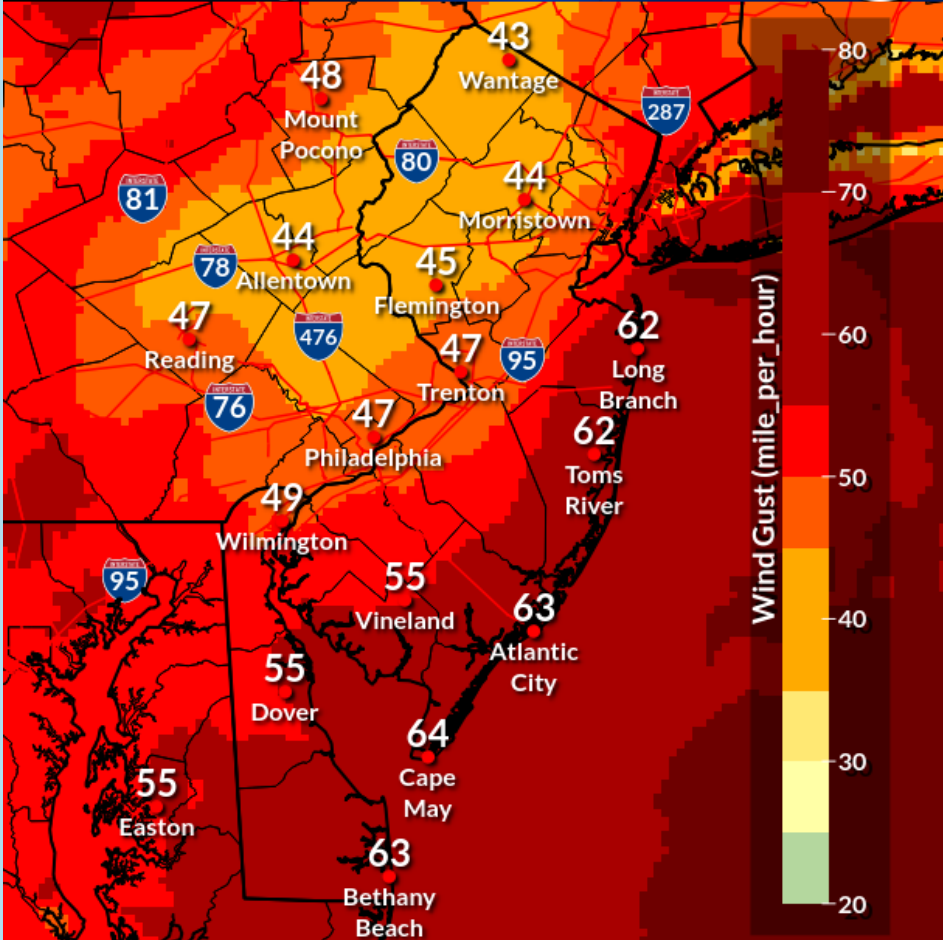
Max Wind Gusts

Weather Forecast Office
Mount Holly



This afternoon & Tonight

Issued Jan 09, 2024 4:31 AM EST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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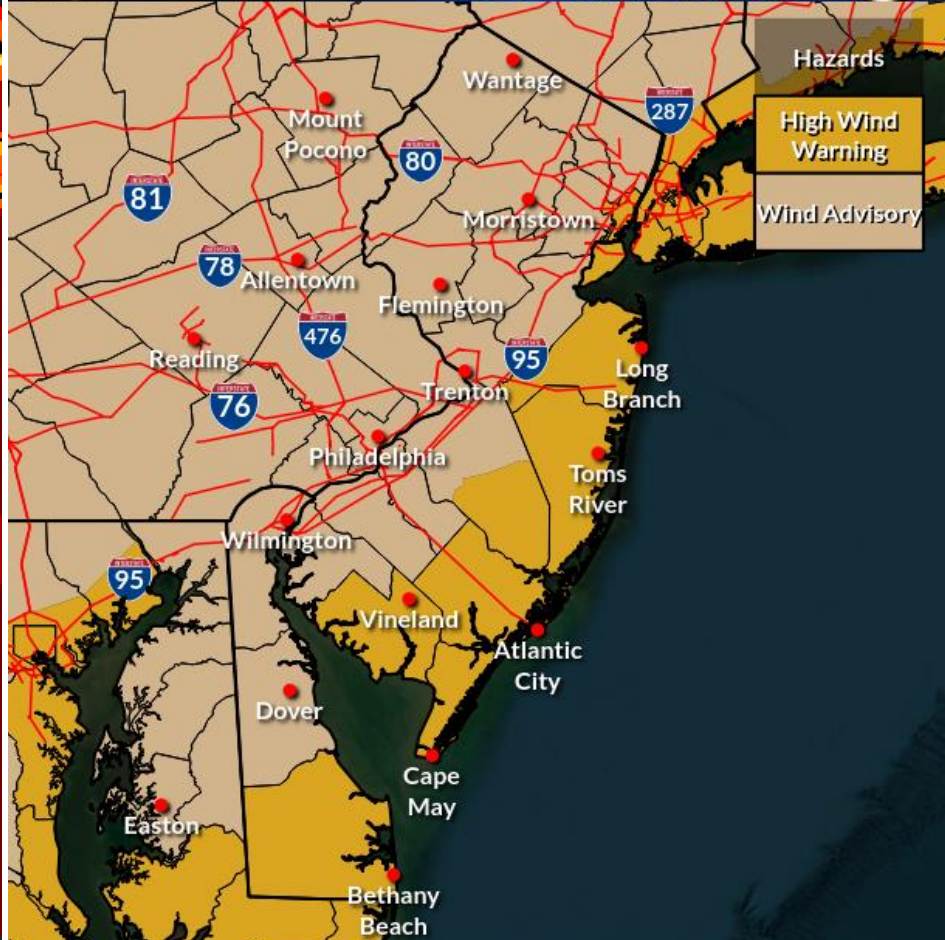
Wind Hazards

Weather Forecast Office
Mount Holly



Tonight

Issued Jan 09, 2024 4:43 AM EST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

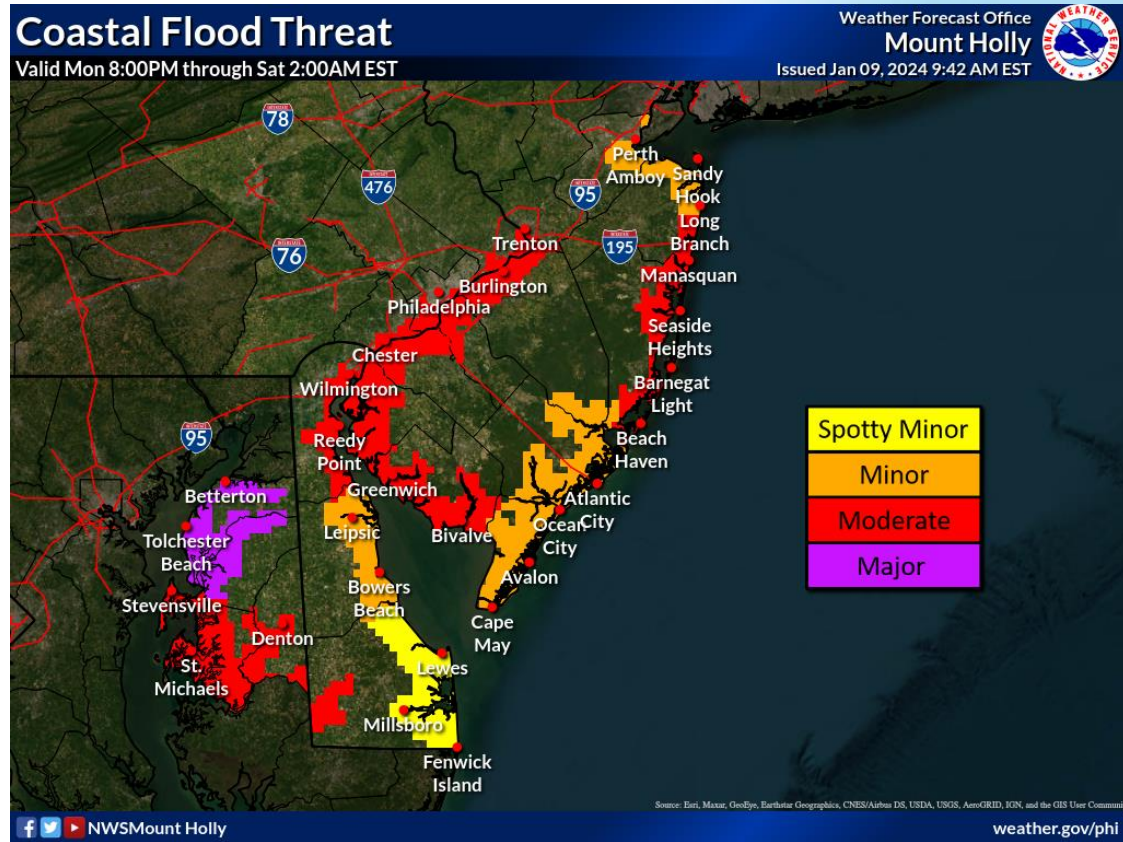
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Coastal Flood Hazards and Threats

updated at 10 AM



MAJOR coastal flooding forecasted for upper portions of the Chesapeake Bay

Event Summary

- ✓ **Flooding:** Heaviest rain falls from 6 PM this evening – 2 AM Wednesday. River flooding risk continues Wednesday and beyond. **Several rivers will experience moderate to major flooding, especially across northern NJ and southeast PA.** Widespread urban & small stream flooding possible. Snowmelt with heavy rain across the northern areas will enhance runoff & flooding potential.
- ✓ **Strong/Damaging Winds:** **High Wind Warning** for the NJ and DE coastal counties for southeast to south wind gusts up to 65 mph tonight. **Wind Advisory for inland areas.** A line of heavier showers tonight with the cold front could potentially produce a period of stronger winds. Gusty west to southwest winds continue on Wednesday.
- ✓ **Marine:** **Storm Warning** in effect for all marine zones with gusts up to 60 knots. Dangerous seas building to 15-20 feet later today and lingering into Wednesday.
- ✓ **Coastal Flooding:** This afternoon into Wednesday. **Coastal Flood Warning** for moderate flooding for the tidal Delaware River, portions of Delaware Bay, Ocean County, and eastern MD Shore areas. **Locally major flooding in northern Chesapeake Bay.** Severity of flooding will depend on surge timing in respect to high tide, and excessive runoff from heavy rain may elevate water levels even more. **Coastal Flood Advisory** for the rest of the NJ Atlantic coast.

Contact and Next Briefing Information



Next Briefing by
5 PM Tuesday
January 9th



Briefing Webpage:
www.weather.gov/media/phi/current_briefing.pdf



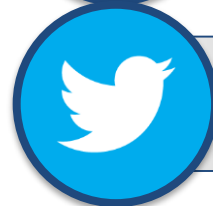
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