

# Coastal Storm September 22-24, 2023






## Decision Support Briefing #2 As of: 6 AM, Friday, September 22, 2023

### What Has Changed?

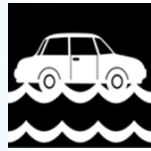
- ✓ Coastal Flood Watches Upgraded to Coastal Flood Warnings, with Coastal Flood Advisories for other areas.
- ✓ Refined timing of peak winds.



# Main Points

Hazard	Impacts	Location	Timing
<b>Coastal Flooding</b> 	<p>Moderate to major coastal flooding forecast for southern coastal New Jersey and Delaware. Minor flooding elsewhere (see threat map)</p>	<p>Atlantic coastal NJ and DE, Delaware Bay.</p>	<p>Greatest inundation Saturday afternoon &amp; evening high tide. Some lingering flooding possible Saturday night</p>
<b>Wind</b> 	<p>Strong winds may result in isolated downed trees, power lines, and power outages. Max wind gusts 35-60 mph</p>	<p>Entire area; strongest gusts (50-60 mph) restricted to the immediate coast</p>	<p>Late Friday night through Saturday</p>
<b>Marine</b> 	<p>Storm-force and Gale-force winds. Dangerous seas building up to 10-15 feet.</p>	<p>Across all marine zones.</p>	<p>Friday night – Saturday night... Strongest winds and highest seas Saturday.</p>
<b>Heavy Rain</b> 	<p>Widespread 2-3 inches of rain. Localized urban &amp; small stream flooding possible (5 to 15% risk)</p>	<p>Entire area; heaviest rainfall will likely be along the coast</p>	<p>Occasional heavy rain lifting northward Saturday morning; another round late in the day possible.</p>
<b>Tornadoes</b> 	<p>The threat of tornadoes is low, but an isolated tornado could occur.</p>	<p>Southern portions of eastern MD, southern DE.</p>	<p>Saturday afternoon and early evening.</p>

# Summary of Greatest Impacts



## Coastal Flooding: NJ and DE Coasts; DE Bay

None

Limited

Elevated

Significant

Extreme



## Wind: Coastal New Jersey and Delaware

None

Limited

Elevated

Significant

Extreme



## Marine: NJ and DE Atlantic Waters; DE Bay

None

Limited

Elevated

Significant

Extreme



## Heavy Rain: Entire Area

None

Limited

Elevated

Significant

Extreme



## Tornadoes: Low Risk for southern DE/MD

None

Limited

Elevated

Significant

Extreme



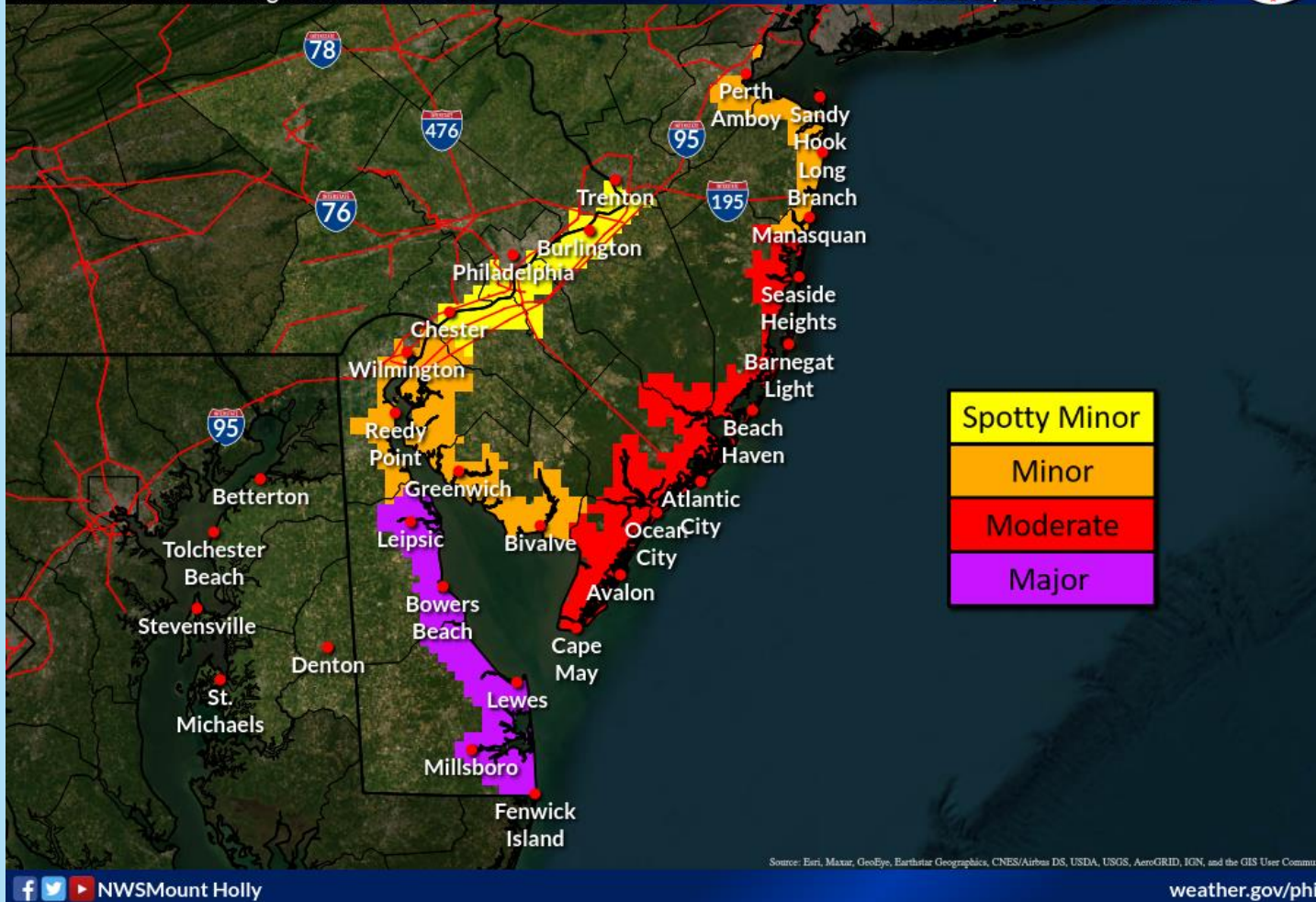
# Risk for Moderate to Major Coastal Flooding

## Coastal Flood Threat

Valid Sat 12:00PM through Sun 12:00AM EDT

Weather Forecast Office  
Mount Holly

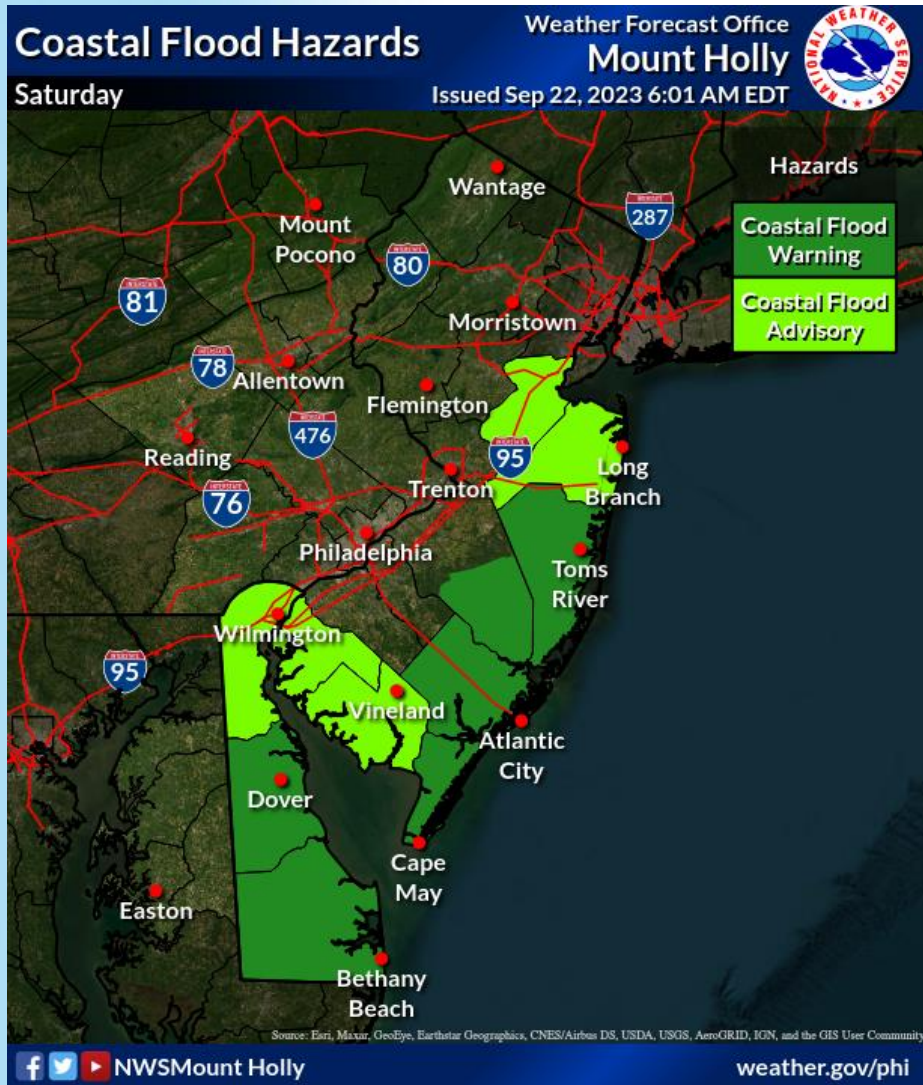
Issued Sep 22, 2023 5:57 AM EDT



Major coastal flooding forecast for coastal areas of Kent and Sussex counties in Delaware.

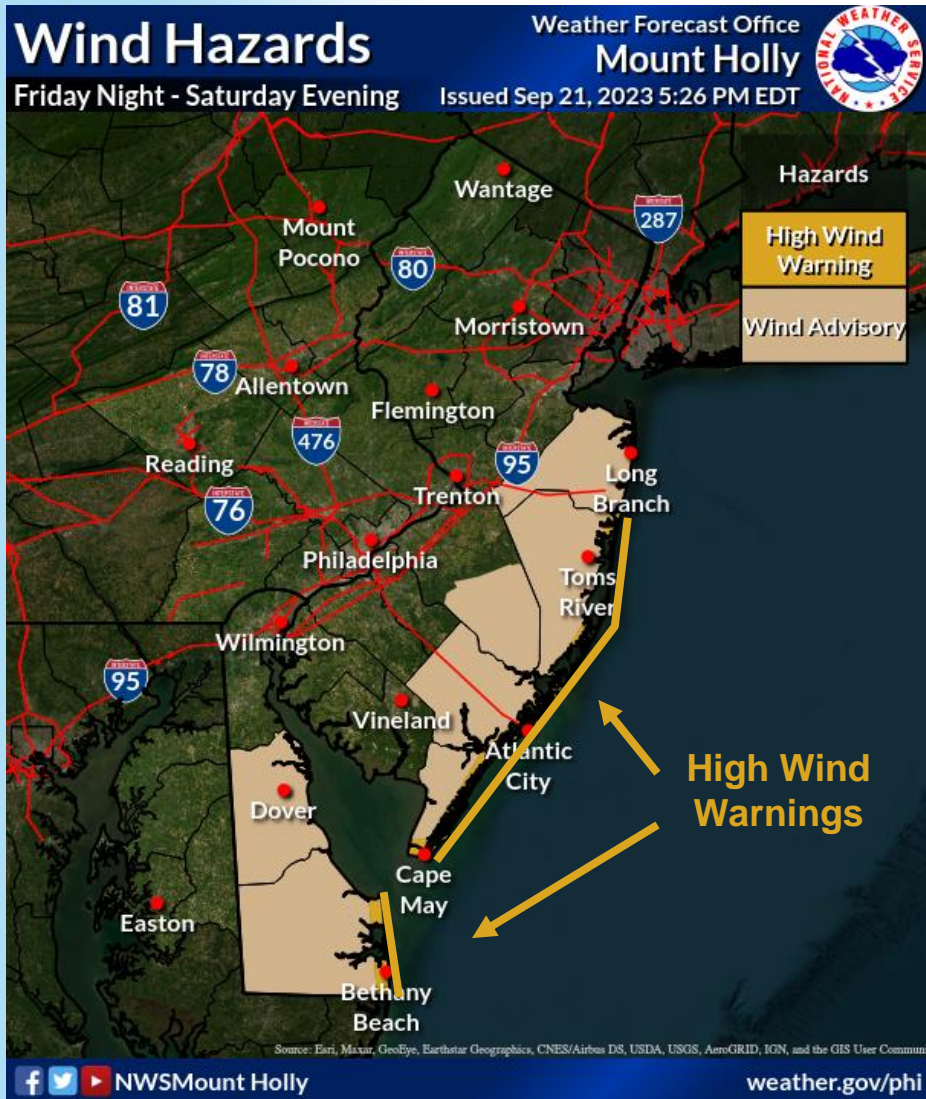
A few locations in coastal areas of Atlantic and Cape May counties in New Jersey may flirt with major coastal flooding levels.

# Risk for Moderate to Major Coastal Flooding



**Coastal Flood Warnings have been issued for the Saturday afternoon/evening high tide for coastal areas of southern Delaware, the Atlantic coast of southern New Jersey, with advisories adjacent to those areas.**

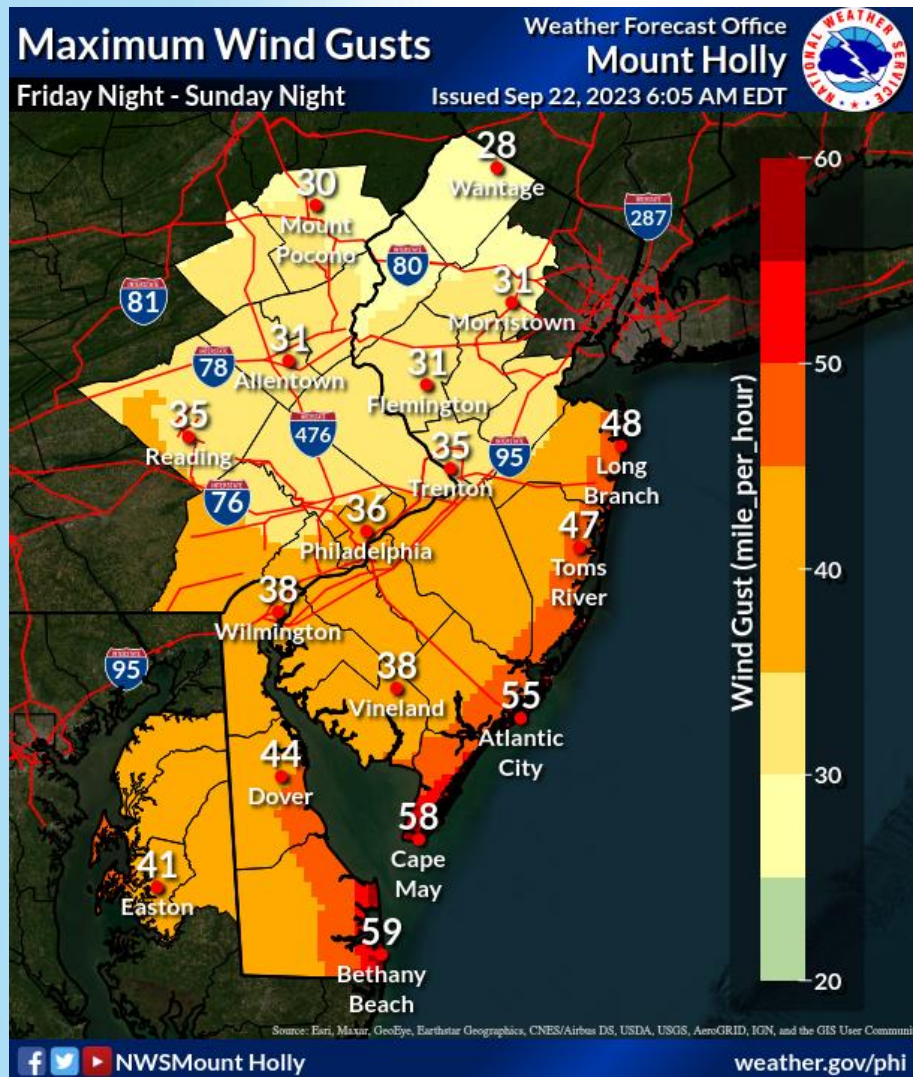
# Strong to Damaging Winds Along the Coast



**High Wind Warnings (gusts 50 to 60 mph) in effect for coastal portions of New Jersey and Delaware from Tonight through Saturday Evening.**

**Wind Advisories (gusts 40 to 50 mph) are also in effect for inland coastal counties.**

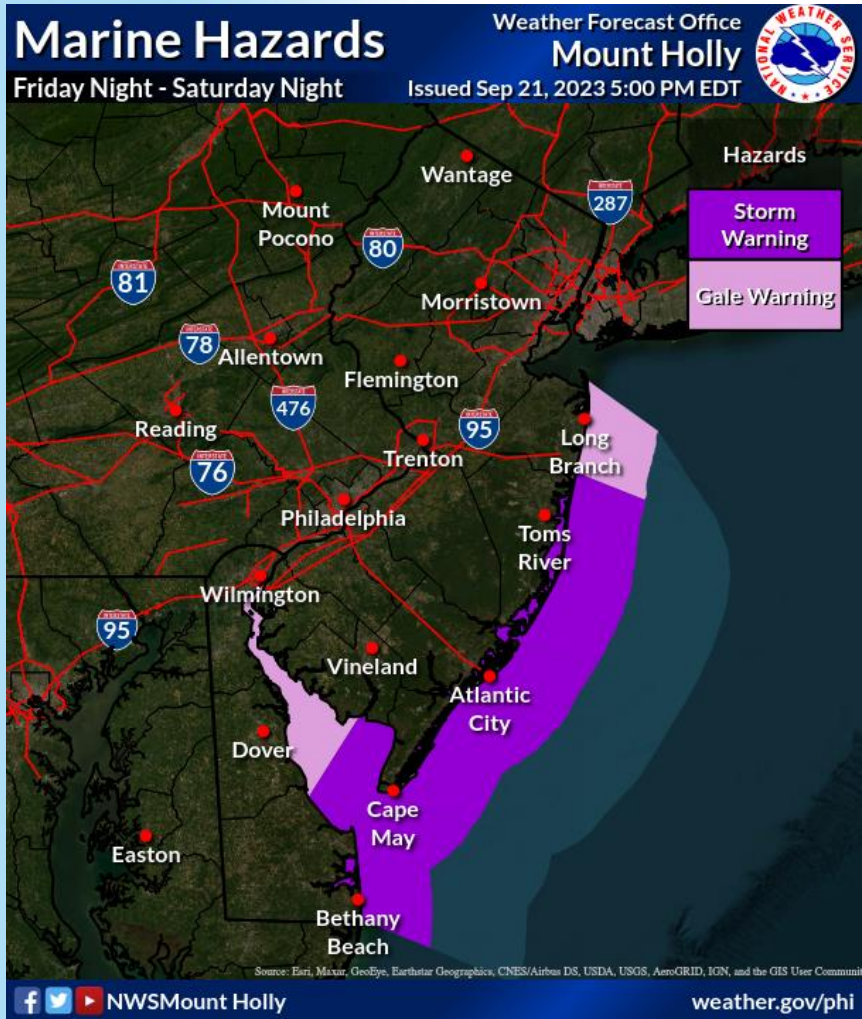
# Strong to Damaging Winds Along the Coast



**Maximum wind gusts up to 50-60 mph forecasted for coastal areas of Delaware and New Jersey. Maximum wind gusts 30 to 40 mph inland. Strongest winds are expected from mid-morning through early afternoon Saturday.**

**Downed trees and power lines resulting in localized power outages are possible, mainly close to the coast.**

# Dangerous Marine Conditions



**Storm-force and Gale-force winds expected across all marine zones.**

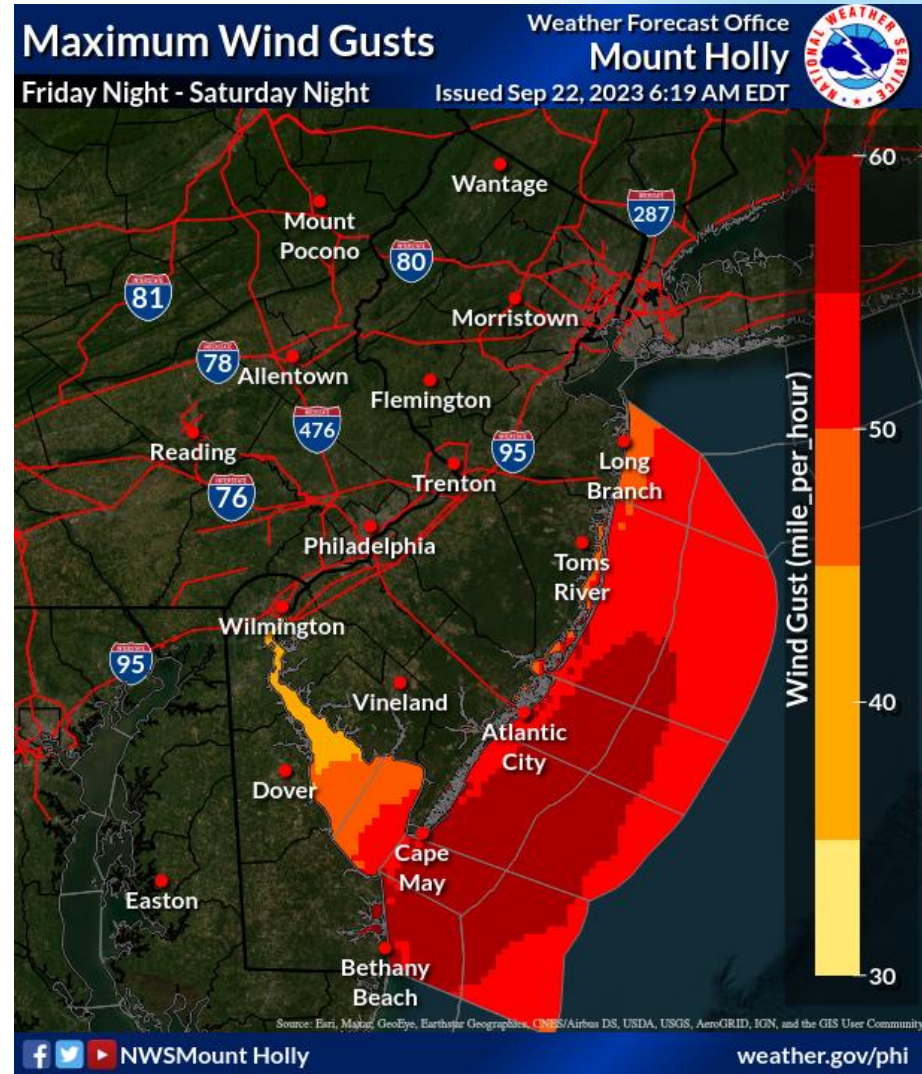
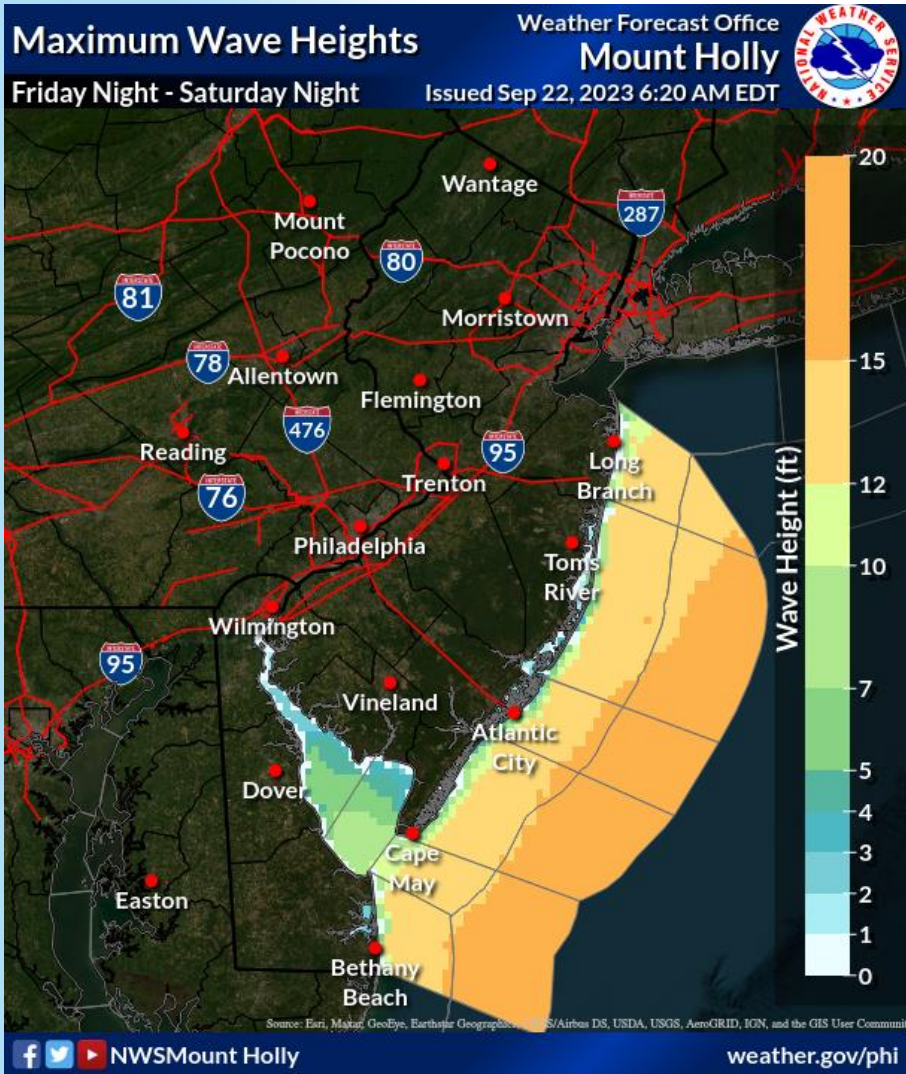
**Maximum wind gusts up to 50 kts across Atlantic waters and mouth of the Delaware Bay.**

**Dangerous seas building up to 10-15 feet.**

**Strongest winds and highest seas will occur on Saturday.**

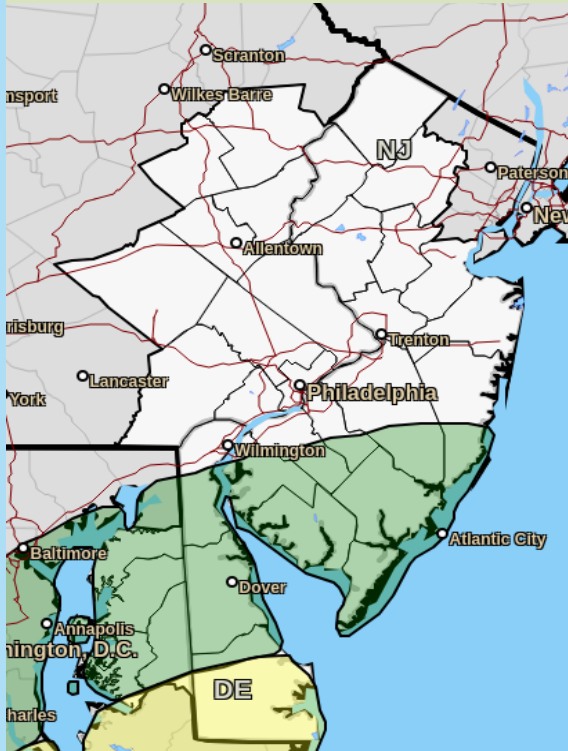


# Dangerous Marine Conditions



# Excessive Rainfall Outlook – Flash Flood Potential

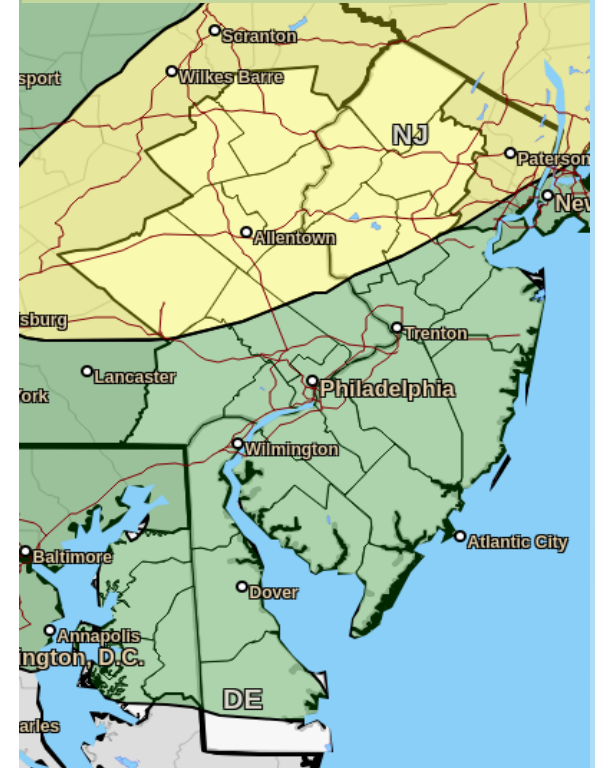
## Late Tonight



## Saturday



## Sunday



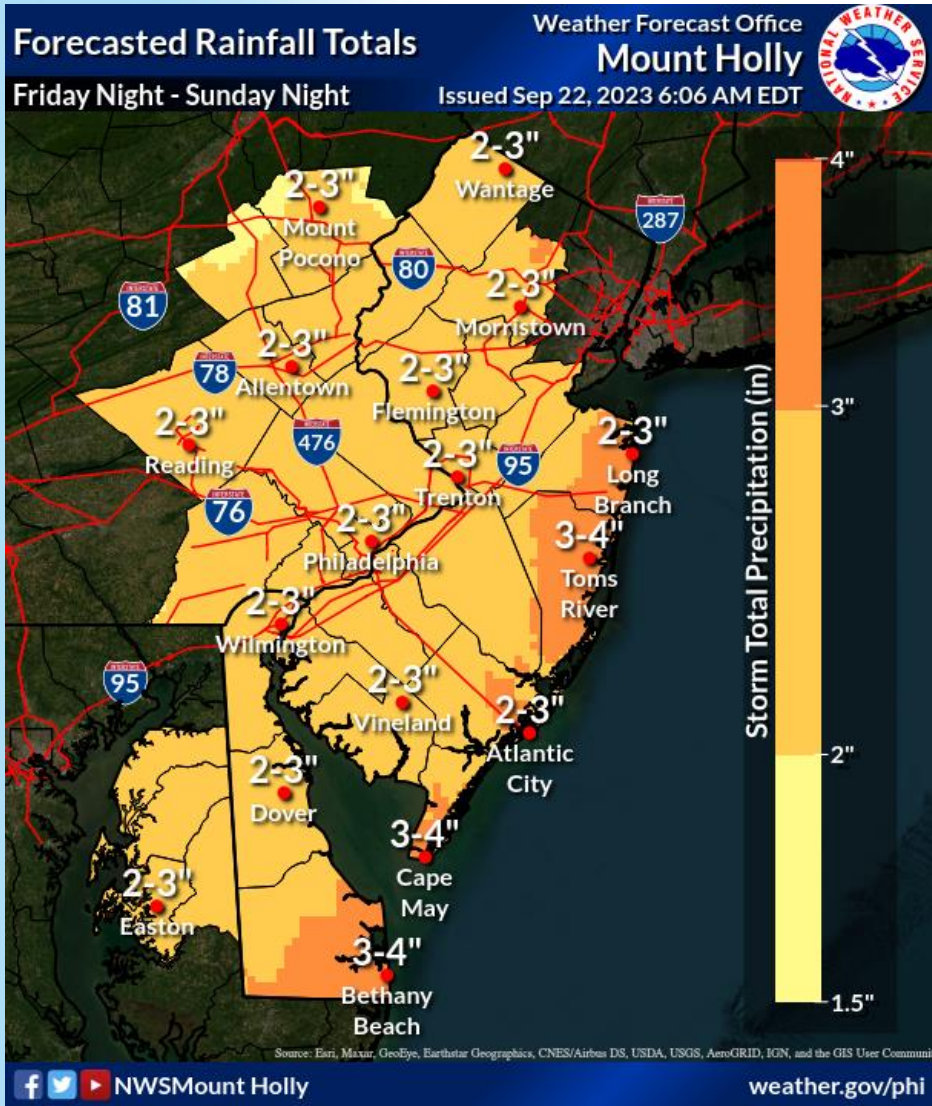
Probability of excessive rainfall leading to rapid onset flooding.\*

High Risk	At least 70%
Moderate Risk	At least 40%
Slight Risk	At least 15%
Marginal Risk	At least 5%

\* Within 25 miles of a point.  
May not represent localized flooding threat over burn scars.

**Localized urban & small-stream flooding possible mainly on Saturday, with a lingering threat mainly NW areas Sunday.**

# Storm Total Rainfall Amounts

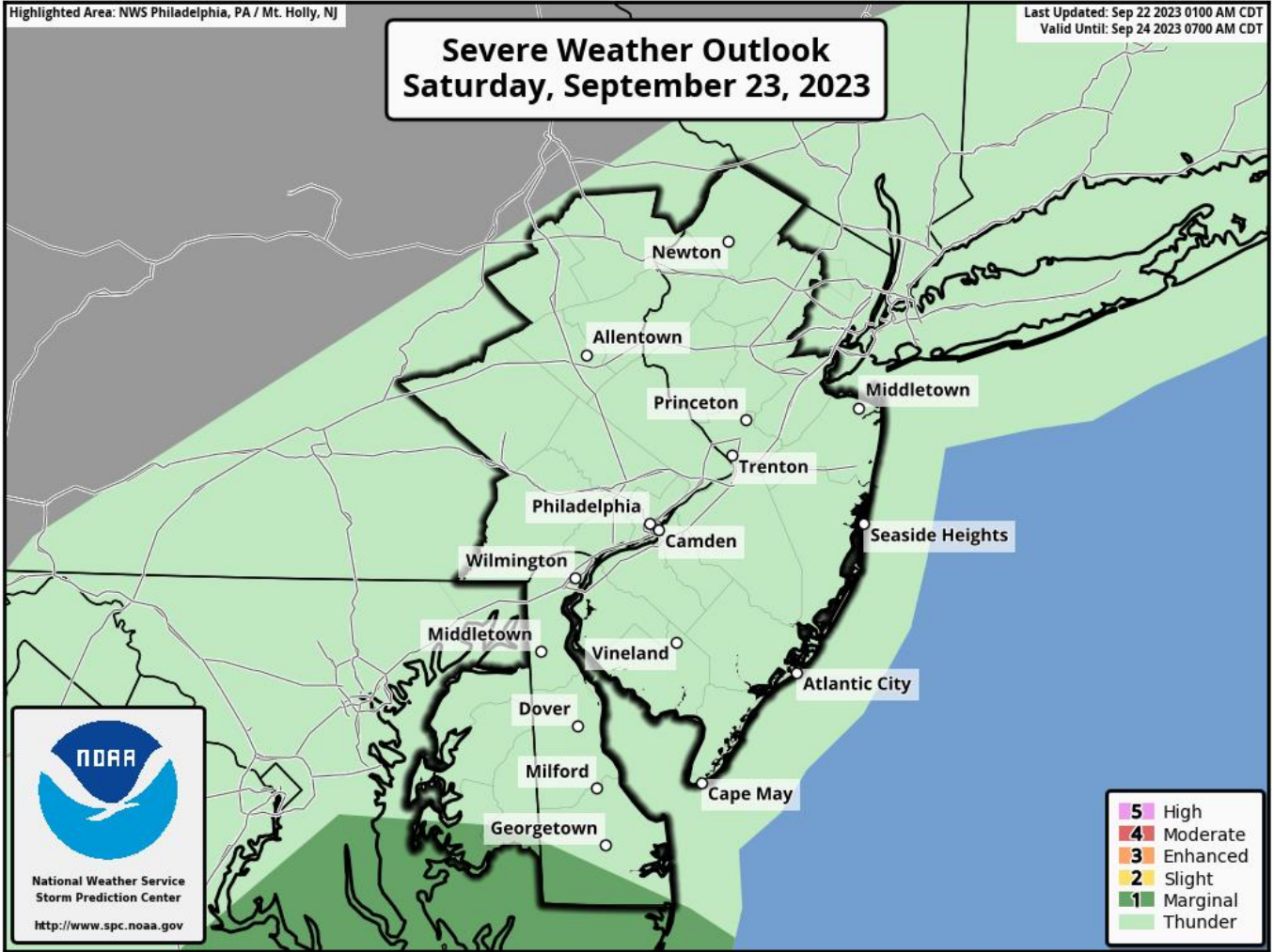


**Widespread 2-3 inches of rainfall across the entire region from Friday night through Sunday night.**

**Occasional heavy rain lifting northward Saturday morning; another round of downpours possible late in the day.**

**Rain showers continue into Sunday and begin to taper off Sunday night.**

# Low Risk for Tornadoes



**Tornado risk remains minimal at this time and restricted to southern DE/MD.**

# Event Summary

- ✓ **A strong coastal low will impact our region, with greatest impacts expected along the DE and NJ coastlines.** Regardless if this coastal system is named, or classified as “tropical” as it tracks northward, impacts will remain the same: coastal flooding, strong winds, heavy rain, and dangerous seas and surf.
- ✓ **MAJOR to Moderate coastal flooding** is possible along the DE and NJ coast with the greatest highest water levels during the Saturday afternoon/evening high tide.
- ✓ **Strong winds along the coast and across the waters** could result in isolated power outages. For marine interests, this will result in dangerous winds and seas for all vessels.
- ✓ **Heavy rainfall** at times through the weekend could lead to localized urban or small-stream flooding.
- ✓ **Dangerous rip currents, high surf, and beach erosion** remain a concern along all area beaches through the weekend.

# Contact and Next Briefing Information



**Next Briefing**  
*When: By 9AM Saturday,  
September 23, 2023*



**Briefing Webpage:**  
[www.weather.gov/media/phi/current\\_briefing.pdf](http://www.weather.gov/media/phi/current_briefing.pdf)



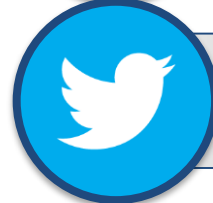
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