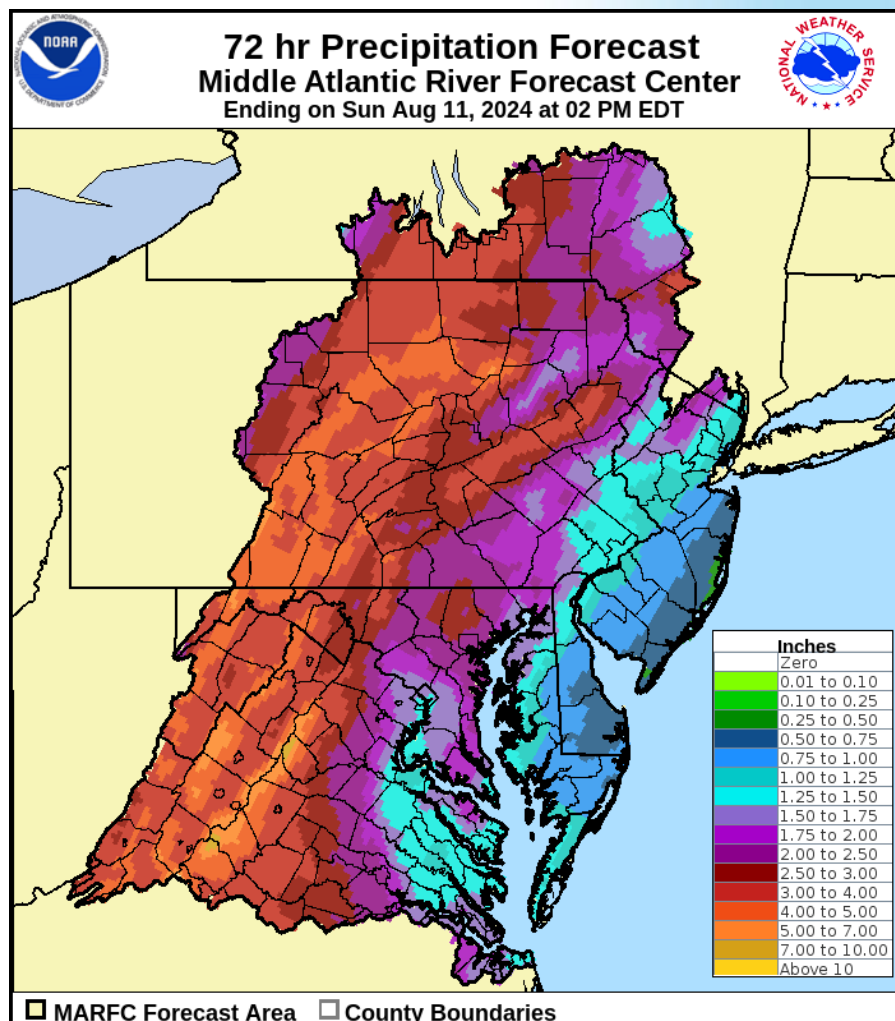


Severe Weather, Heavy Rain, & Impacts from Debby's Remnants - August 8-10, 2024




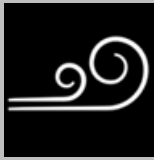

Decision Support Briefing #14 As of: 5 PM, August 8, 2024

What Has Changed?

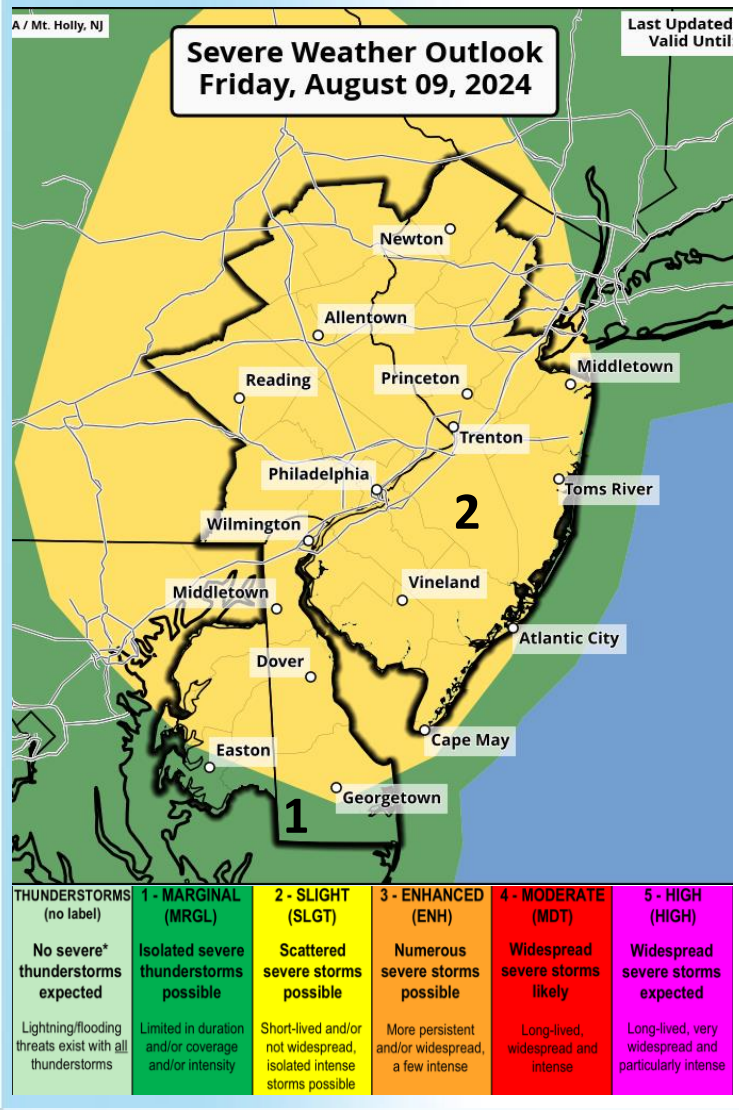
- ✓ Tornado and damaging wind threat has increased for Friday
- ✓ Wind Advisory issued for Friday
- ✓ Coastal Flood Advisory issued for Friday high tides



Main Points

Hazard	Impacts	Location	Timing
Tornadoes & Severe Thunderstorms 	Tornadoes and locally damaging wind gusts may cause downed trees and power lines.	Entire region.	Friday morning through Friday evening.
Strong Winds 	Winds 15-30 mph with gusts 35-50 mph outside of any thunderstorms. Downed trees and power outages possible.	Entire region, strongest winds near the coast, Delaware Bay, and Chesapeake Bay.	Friday morning through Friday evening.
Heavy Rain/Flash Flood 	1-2" of rain with locally higher amounts. Some instances of flash flooding possible; also increasing concerns for some main stem river flooding.	Some risk across the entire region, but focus is I-95 corridor and to the north and west.	Primary period of concern is Friday, but localized flash flooding is possible tonight. Possible river flooding Saturday into Sunday.
Marine and Coastal Hazards 	Marine navigation will be difficult due to gale forces winds and wave heights 7-10 feet. There will be a high risk for rip currents and high surf. Dune breaches and beach erosion possible.	Atlantic coastal waters and Delaware Bay.	Through Friday night.
Tidal Flooding 	Areas of minor coastal flooding. It could also exacerbate flooding near the coast due to rainfall.	Eastern shore of Chesapeake Bay and back bays of Ocean and Sussex (DE) Counties. Upper Delaware Bay and tidal Delaware River.	Friday through Friday night high tides.

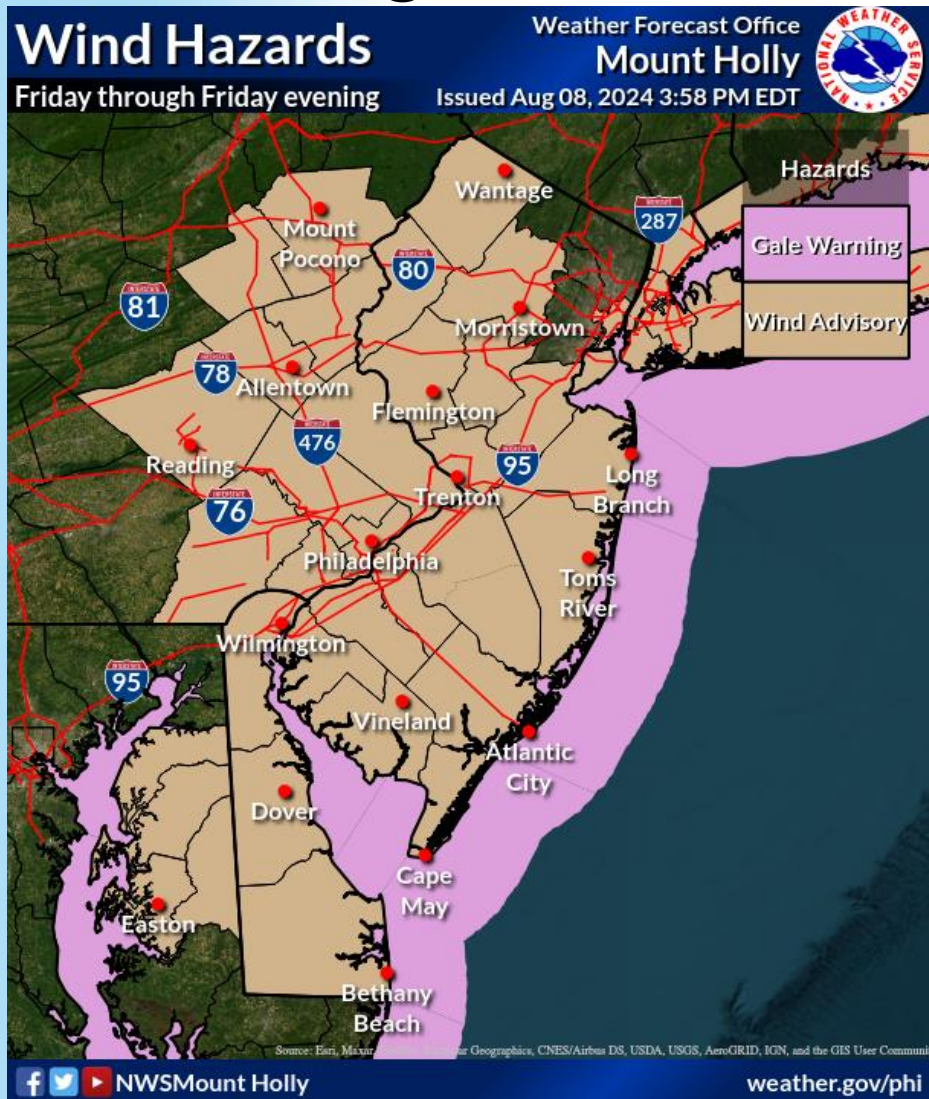
Tornado & Damaging Wind Risk Friday



- ✓ Tornadoes are the main threat.
- ✓ Risk could begin as early as Friday morning
- ✓ Isolated damaging wind gusts in the morning with a more widespread risk afternoon and evening
- ✓ The inland track of Debby places our region in a favorable zone for a tornado risk.



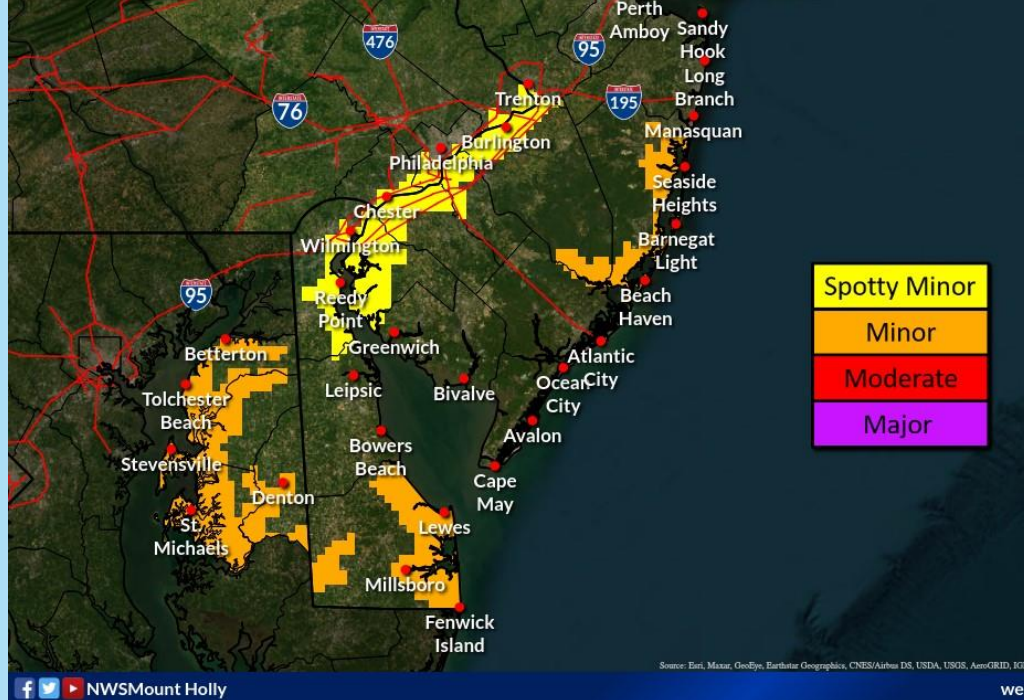
Strong Winds Developing on Friday



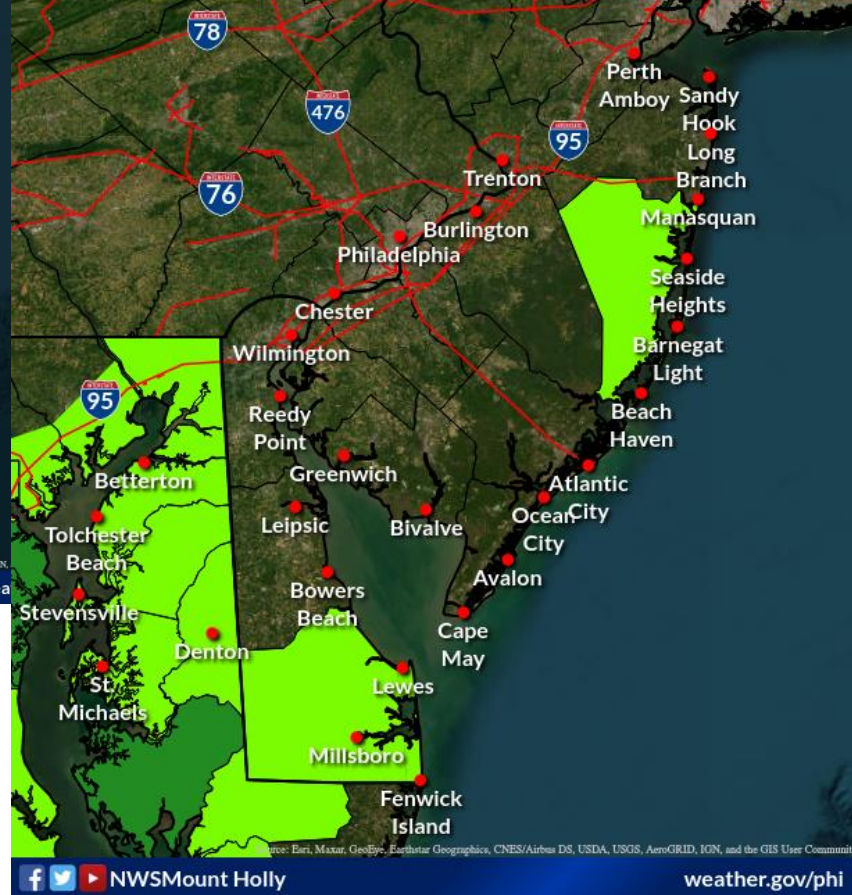
- ✓ Strong south to southeast winds are expected to develop outside of any thunderstorms on Friday
- ✓ Sustained winds 25-35 mph near the coasts (including Delaware Bay and Chesapeake Bay), and 15-25 mph inland can be expected
- ✓ Peak wind gusts 35-50 possible across the entire area, strongest near the coasts
- ✓ The winds may down trees and cause some power outages

Coastal Flood Hazards

Coastal Flood Threat
Valid Fri 6:00AM through Sat 3:00AM EDT
Weather Forecast Office
Mount Holly
Issued Aug 08, 2024 3:40 PM EDT



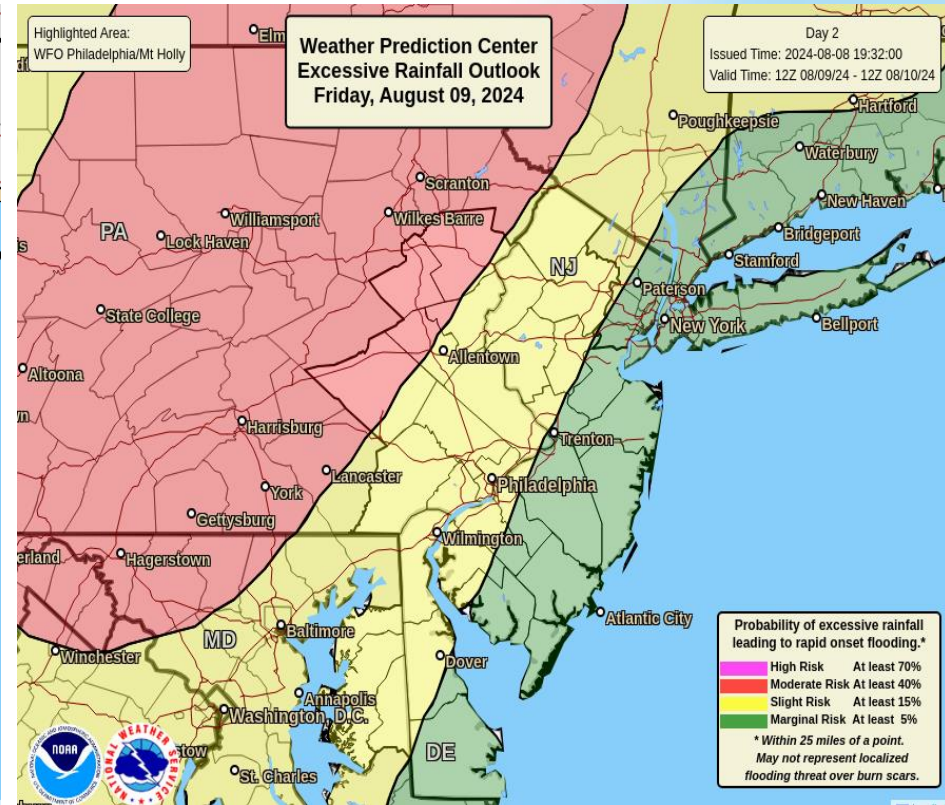
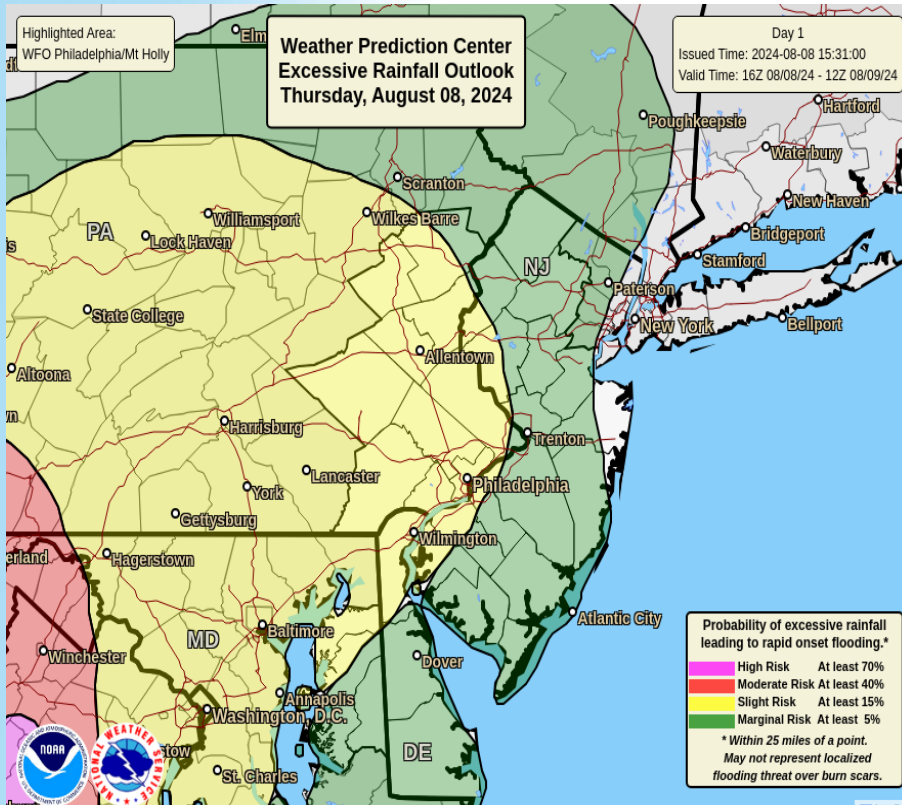
Coastal Flood Hazards
Friday and Friday night high tides
Weather Forecast Office
Mount Holly
Issued Aug 08, 2024 3:38 PM EDT



- ✓ Some areas of minor coastal flooding are expected within the advisory areas.
- ✓ Spotty minor coastal flooding possible along the upper Delaware bay and tidal Delaware River.



Heavy Rain/Flash Flooding Outlook



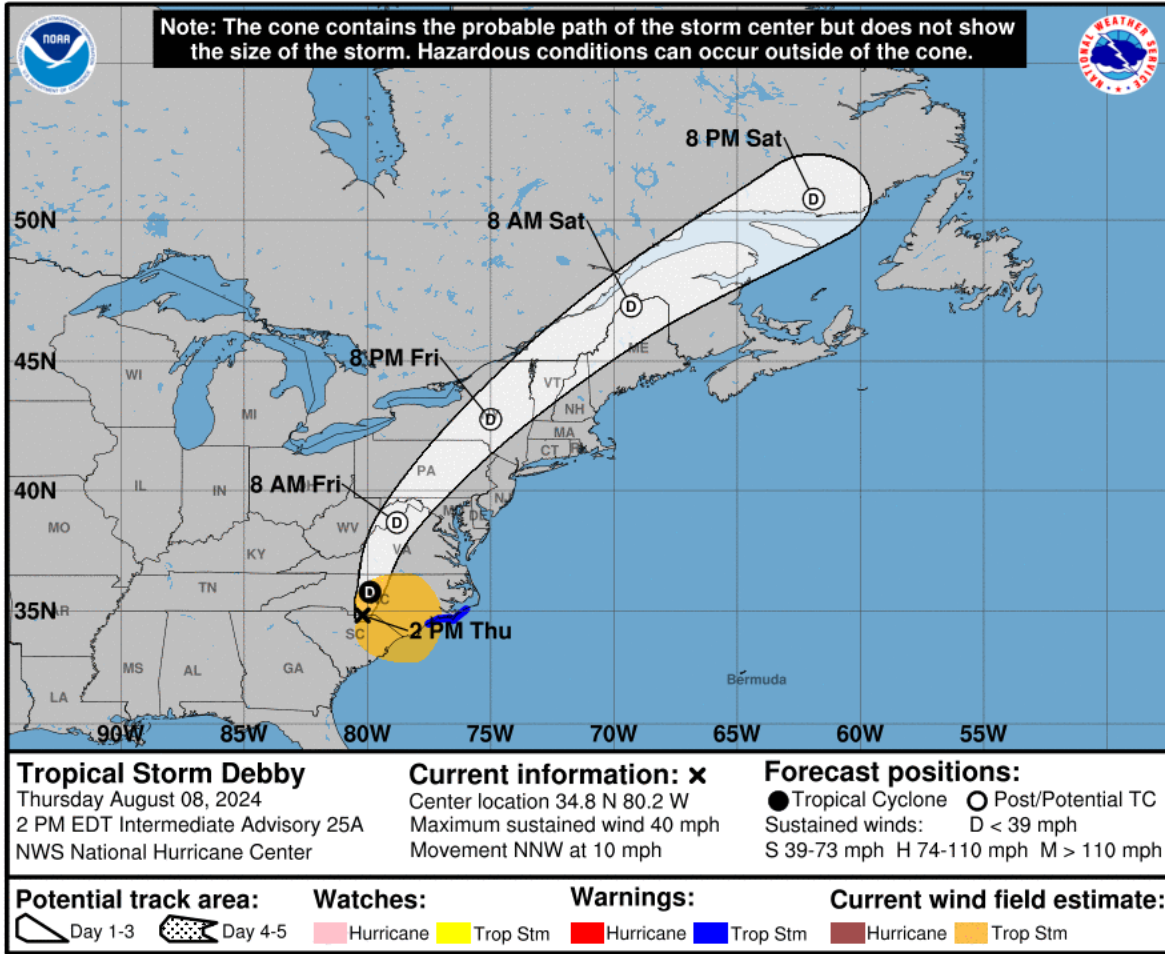
Thursday Night

- ✓ Isolated to scattered instances of flash flooding possible, especially over parts of eastern PA and northern DE

Friday and Friday night

- ✓ Scattered instances of flash flooding possible, mainly I-95 north and west. Some river flooding also possible.

Tropical Storm Debby



- ✓ Tropical Storm Debby's remnants will move north toward the Mid-Atlantic overnight.
- ✓ Debby is forecast to merge with a front as it reaches our region, with the most impacts expected during the daytime Friday.

***Find the latest forecast tracks at nhc.noaa.gov**

Event Summary

- ✓ **There is a Slight (2 out of 5) risk for severe storms with tornadoes and damaging winds** possible Friday into Friday evening.
- ✓ A period of strong south or southeast winds on Friday, with **wind gusts of 35-50 mph expected** across the entire area. This may lead to downed trees and power outages. In addition, a **Gale Warning** is in effect for Friday and Friday night for the New Jersey and Delaware Atlantic Coastal Waters including Delaware Bay.
- ✓ **High risk** of dangerous rip currents through Friday for the New Jersey Shore and the Delaware Beaches. **High surf** with breaking waves of 6-8 feet may result in breaching of sand dunes or beach erosion.
- ✓ Elevated tide levels are expected. **Minor tidal flooding is expected on the eastern shore of Chesapeake Bay, Barnegat Bay, and Sussex County DE back bays** with the Friday high tides. Spotty minor flooding is possible along the upper Delaware Bay and tidal Delaware River with the Friday afternoon/evening high tide.
- ✓ Heavy Rain/Flash Flooding potential continues through Friday.
- ✓ **Main stem rivers will be on the rise by the end of this week**, potentially leading to some river flooding over the weekend and into early next week if rain amounts are high enough.

Contact and Next Briefing Information



This will be the last scheduled briefing for this event unless significant changes occur.



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



Web:
www.weather.gov/phi



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