



TROPICAL STORM HENRI BRIEFING

7PM ET

Thursday, August 19, 2021

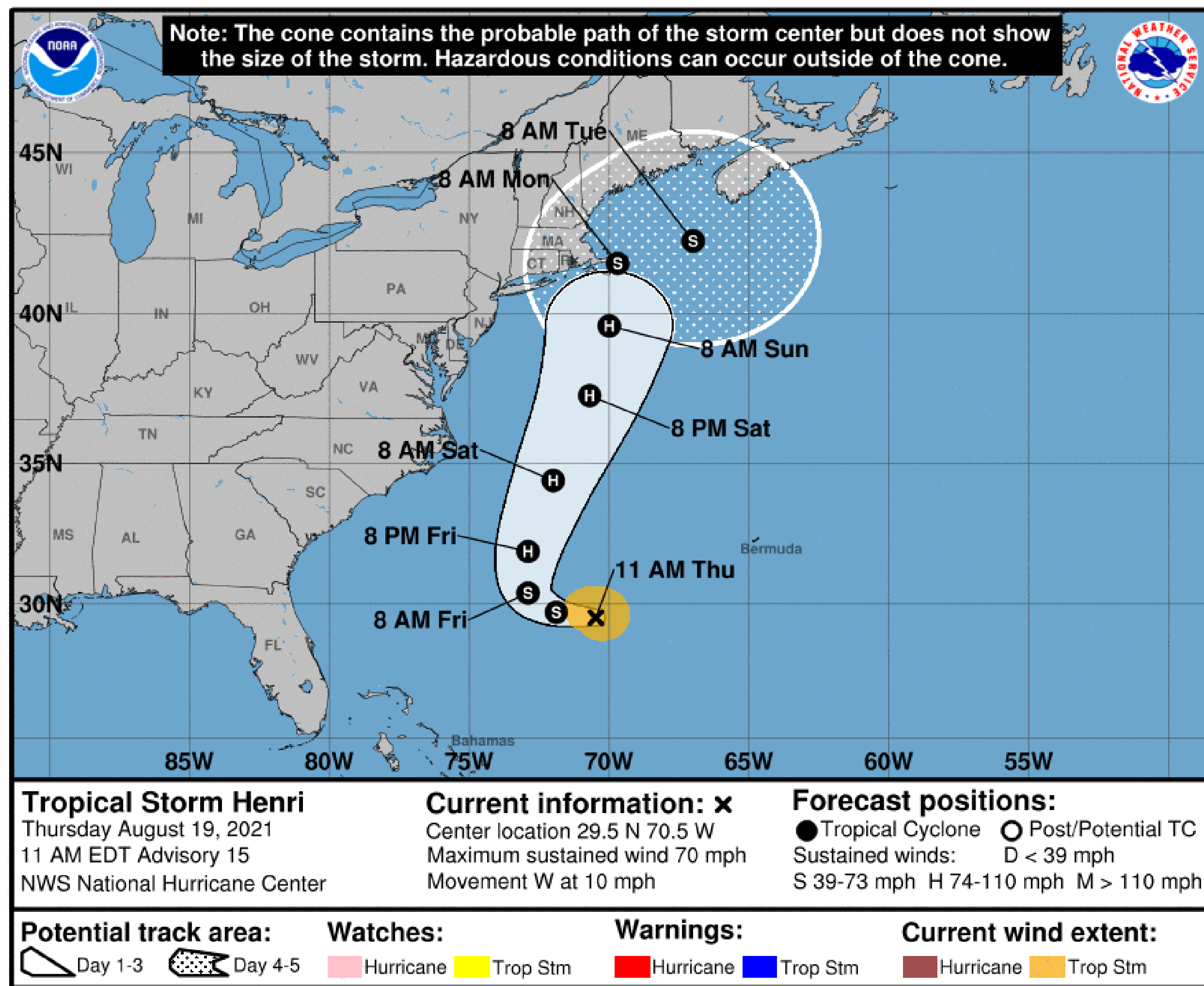
Next Briefing: Friday, August 20, by 10am EDT

Disclaimer: The information contained within is time-sensitive. Do not use after 6:00am EDT Friday.



Situation Overview

Tropical Storm Henri



NOTE: Do not focus on the exact track.

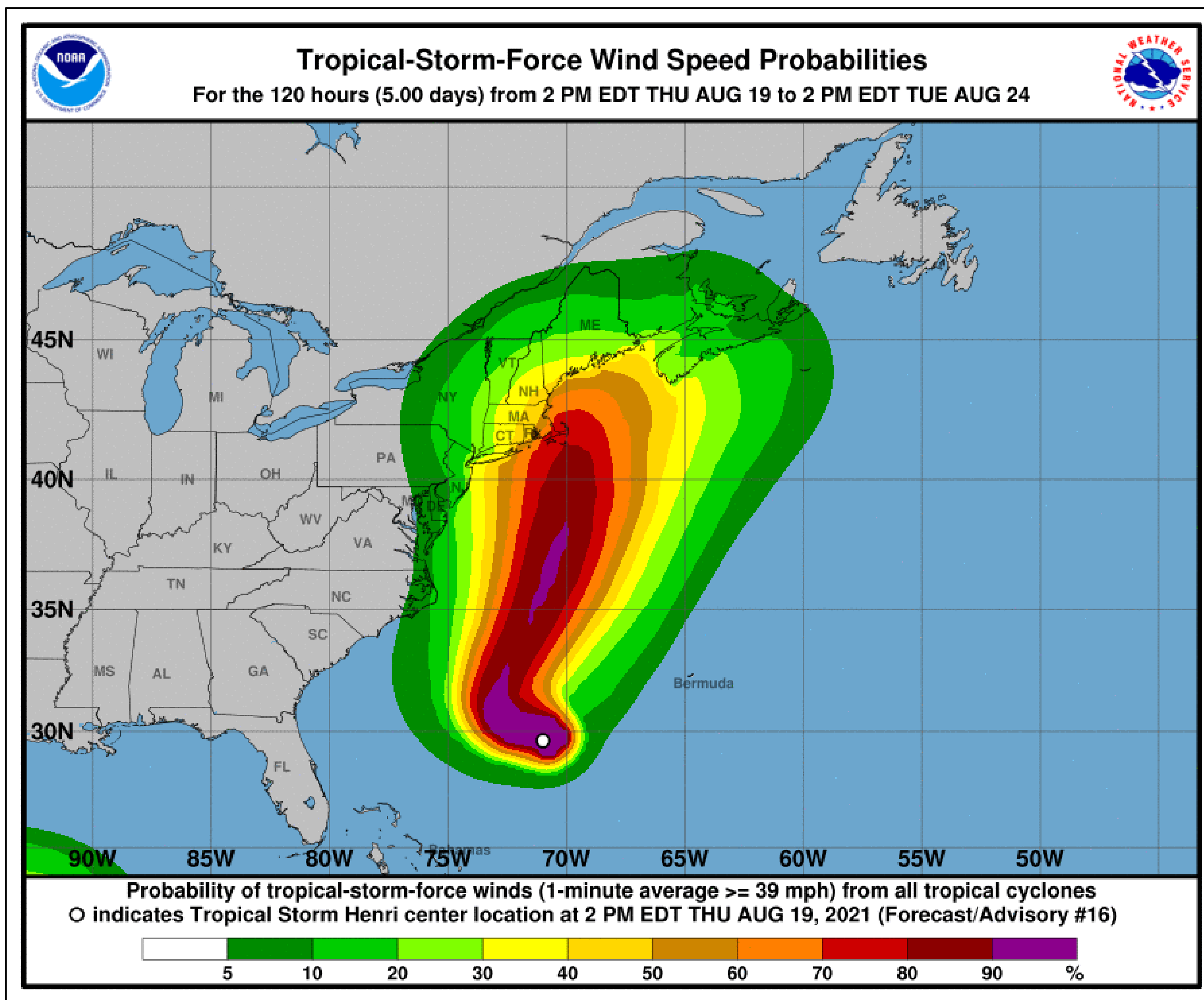
Impacts can occur well outside the area enclosed by the cone.

- TS Henri is expected to strengthen to a hurricane on Friday.
- It will likely approach as a Cat 1 hurricane and likely pass near or to the east of eastern portions of the region on Sunday.
- Dangerous rip current and high surf conditions are expected to develop this weekend.
- Wind, storm surge and rainfall impacts are possible Saturday Night into Sunday Night. The magnitude of these impacts is still uncertain, but the most significant impacts are likely for Eastern LI and SE CT.



Tropical Storm Wind Speed Probabilities

Tropical Storm Henri

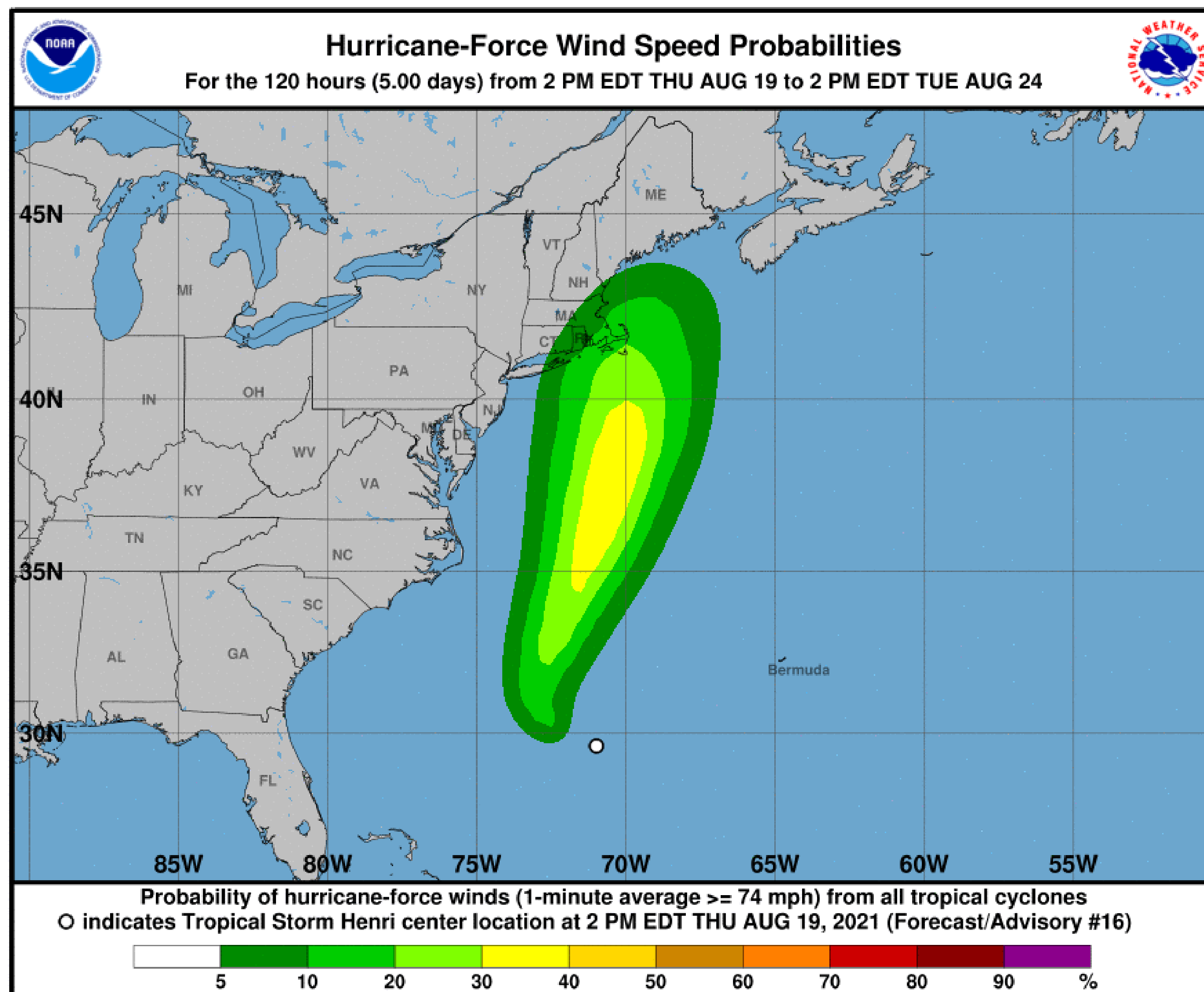


- Wind speed probabilities have increased slightly for the coast.
- There is a moderate potential (30-60%) for Tropical Storm force winds (40 mph sustained winds with higher gusts) across the ocean, Long Island, and southeastern Connecticut.
- There is a 1 in 3 chance of 60 mph sustained winds with hurricane force gusts across far eastern Long Island.



Hurricane Wind Speed Probabilities

Tropical Storm Henri

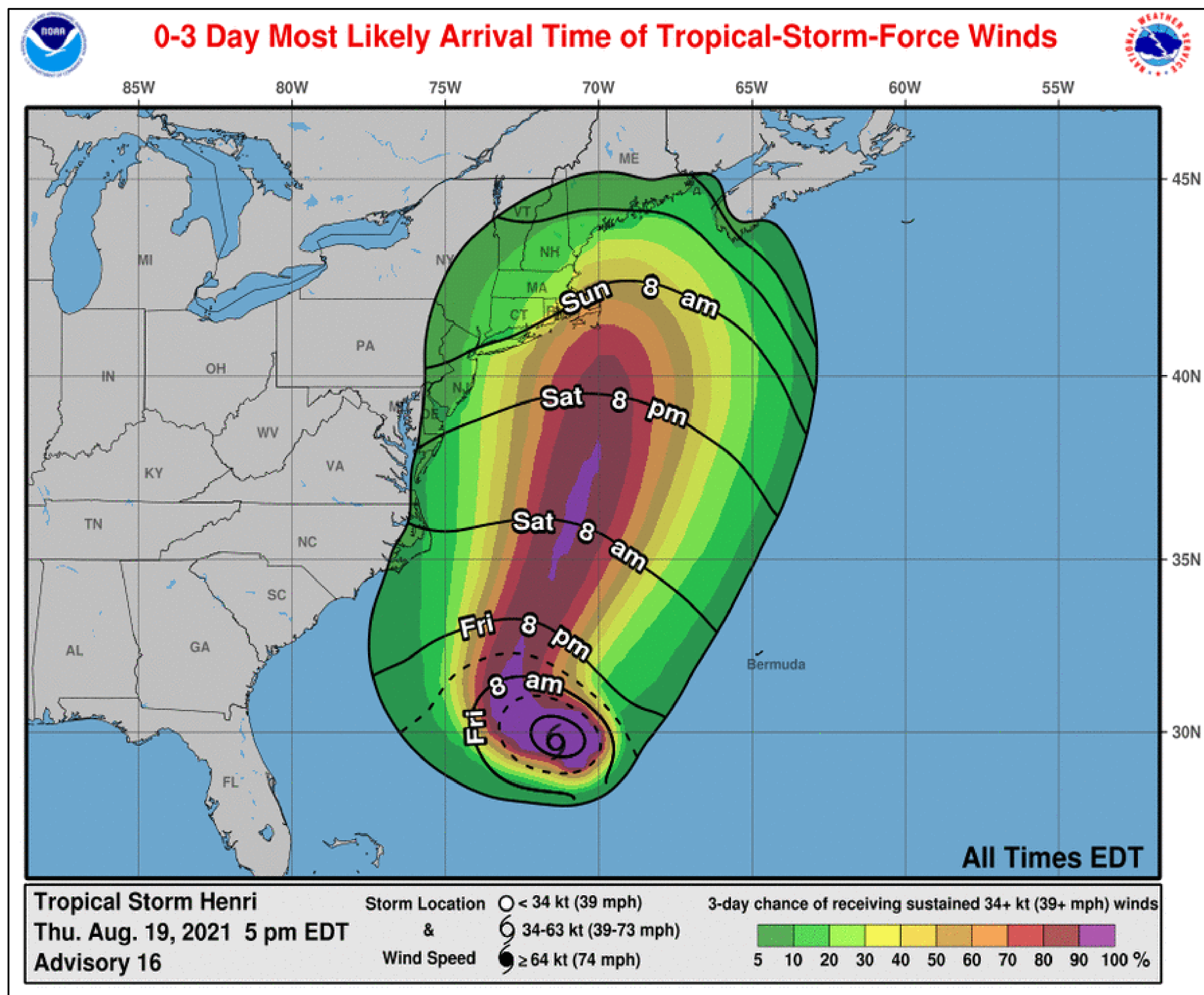


- There is a 5-10% chance of Hurricane force winds (74 mph sustained and higher gusts) across far eastern Long Island and extreme southeast Connecticut on Sunday.
- Note: Even low probabilities of hurricane winds are significant for this area.



Most Likely Time of Arrival

Tropical Storm Henri



- The most likely arrival time of tropical storm force winds across the Tri-State area is Sunday morning.
- However, the region could see tropical storm force winds as early as Saturday night.

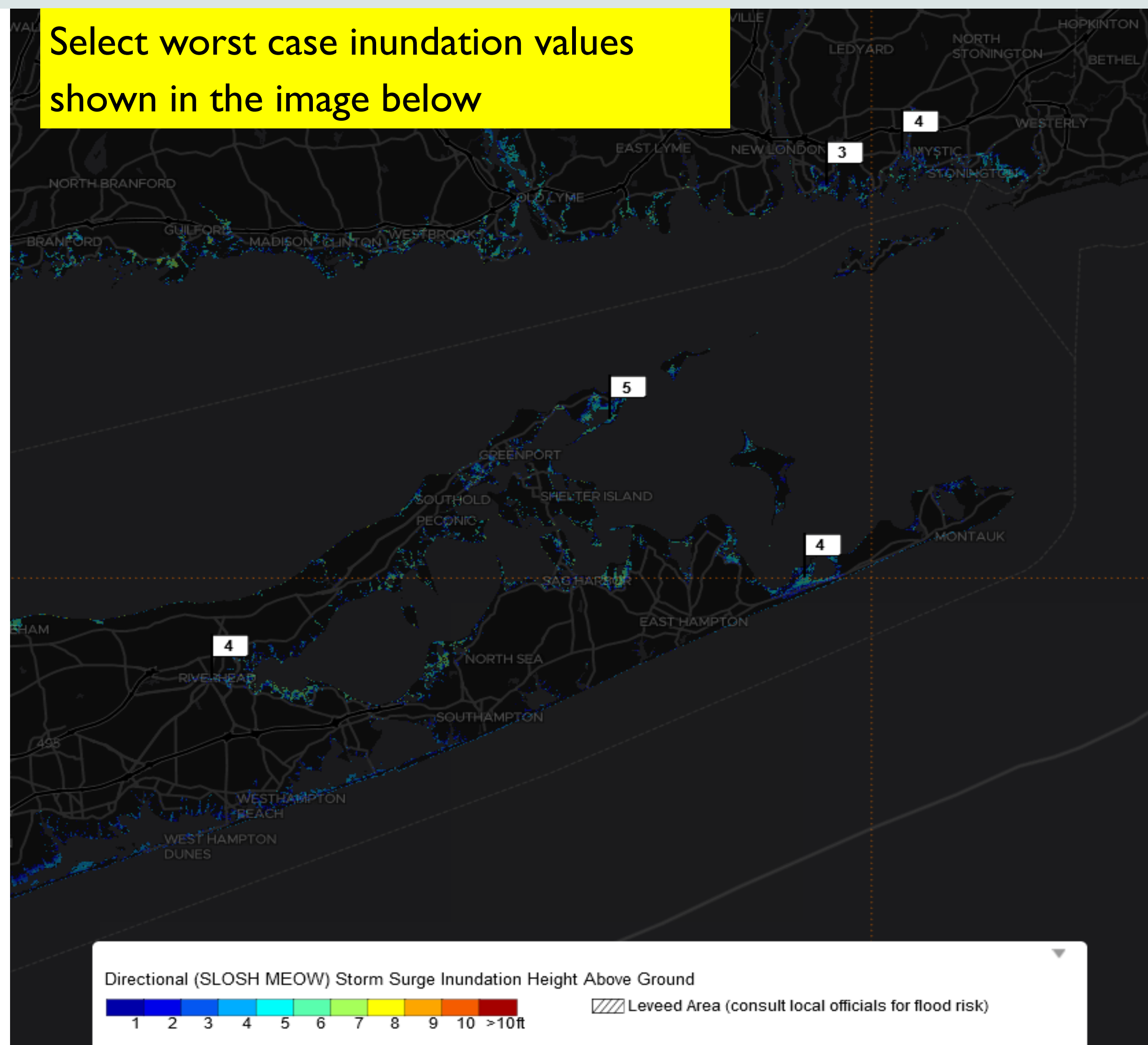


Potential Storm Surge Flooding

Tropical Storm Henri

SLOSH MEOW for a Cat 1 moving NNW/N/NNE/NE at 10 mph at high tide

Select worst case inundation values shown in the image below



Along Peconic and Gardiners bay front, E LI Sound, twin forks and ocean beachfront

- Reasonable worst case inundation potential - Major inundation - **3 to 5 ft (AGL) in vulnerable spots.**

Along W LI Sound, NY Harbor, Southern Bays of LI/NYC

- Reasonable worst case inundation potential- Moderate inundation- **2 to locally 3 ft (AGL) in vulnerable spots.**

Timing of greatest concern-

- During the Sunday morning and Sunday Night high tides

High Surf at Ocean beachfront

- Timing - Sat night into Sunday
- 8-12 ft surf likely, 10-15 ft surf possible
- Impacts - Dune erosion and localized overwash issues are likely

Forecast Challenges

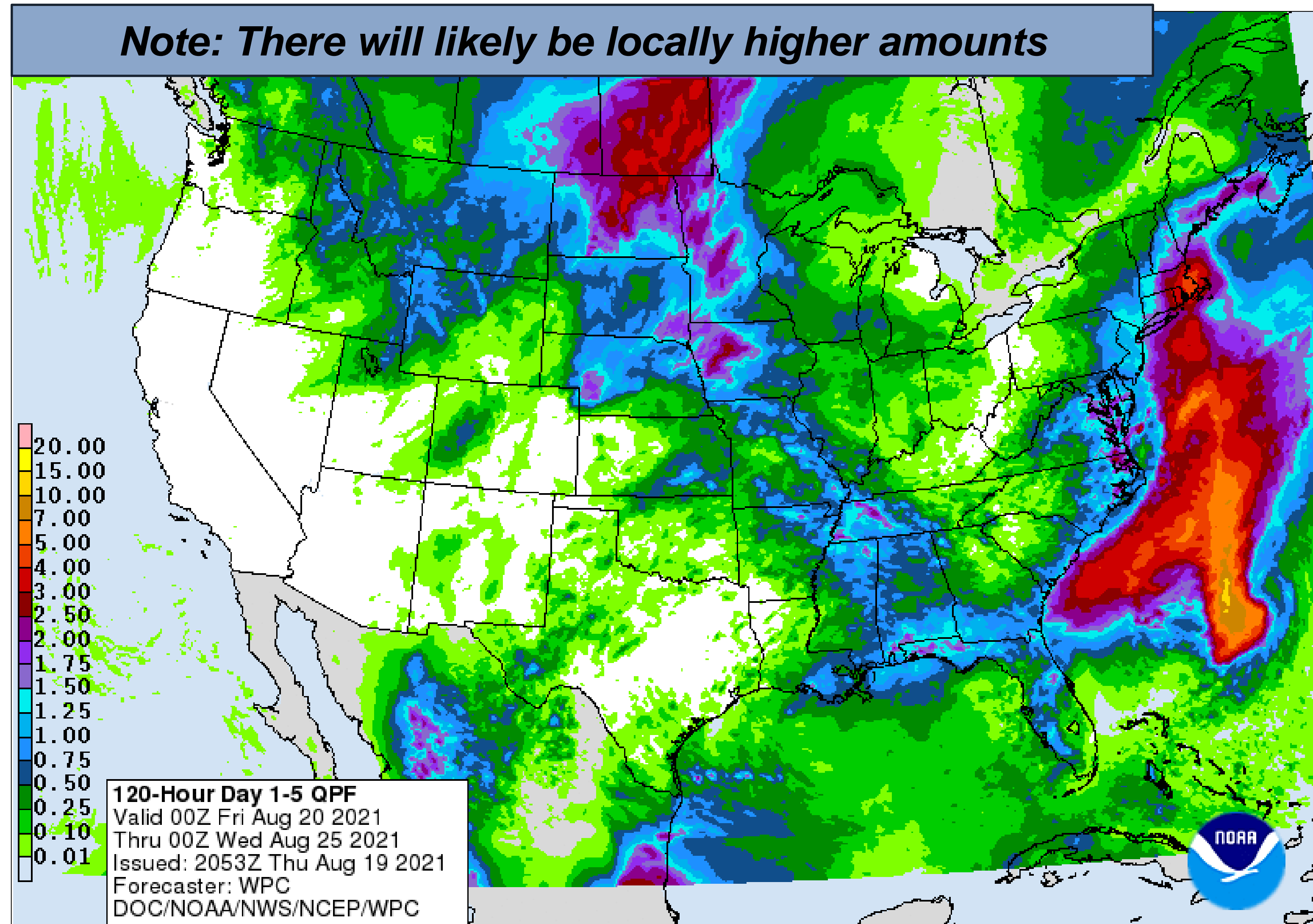
- Still quite a bit of uncertainty this far out due to considerable inherent track uncertainty.
- Forecast confidence expected to increase over the next 24 to 36 hrs.



Expected Storm Total Rainfall

Tropical Storm Henri

Note: There will likely be locally higher amounts



- Storm Total Rainfall forecast Saturday through Monday.
 - 2 to 4" with locally higher for SE CT and E LI.
 - 1 to 2" with locally higher amounts for rest of area.
- Max rainfall rates-
 - 1-2"/hr
- Timing-
 - Most widespread and heaviest rainfall likely with Henri from Saturday night into Sunday Night. Rainfall could linger into Monday.
- Forecast Challenges-
 - Exact axis of heaviest rainfall will be refined over the next 24-36 hrs.
 - Localized heavy rainfall possible Sat aft/evening for NYC/NJ metro and points N and NW.

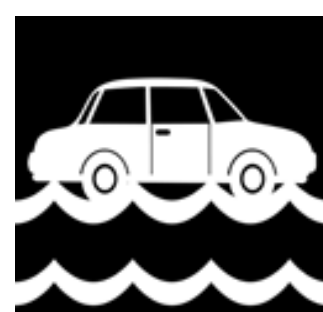


Key Take-Aways

Tropical Storm Henri



Moderate (increasing) potential for Tropical Storm force winds across Long Island and southeast Connecticut. Low probability of strong tropical storm to hurricane force winds for twin forks of LI.



Storm surge flooding is possible. Potential for major inundation across vulnerable portions of E LI and SE CT.

Dangerous rip currents and high surf building on Saturday, continuing through Sunday Night




Flooding rains possible for E LI and SE CT. Localized heavy rainfall farther west.





Dangerous marine conditions expected across the coastal waters Saturday Night thru Sunday Night.



Next Briefing: Friday 10:00 AM EDT Method: [Email]

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For the latest graphics and information go to: www.hurricanes.gov or weather.gov/okx/tropical