



TROPICAL STORM HENRI BRIEFING

8AM EDT

Saturday, August 21, 2021

Next Briefing: Saturday, August 21, by 3pm EDT

Disclaimer: The information contained within is time-sensitive. Do not use after 3:00pm EDT Saturday.



Situation Overview

Tropical Storm Henri

■ Current Headlines

- Hurricane Warning is in effect for Eastern LI and coastal SE CT.
- Tropical Storm Warning is in effect for NYC/NJ Metros, Nassau, coastal SW CT, and S Westchester.
- Storm Surge Warnings now in effect for N Queens and Bronx and northern and eastern portions of Long Island, S Westchester, and S Ct.
- Storm Surge Watch continues for S bays of W LI.

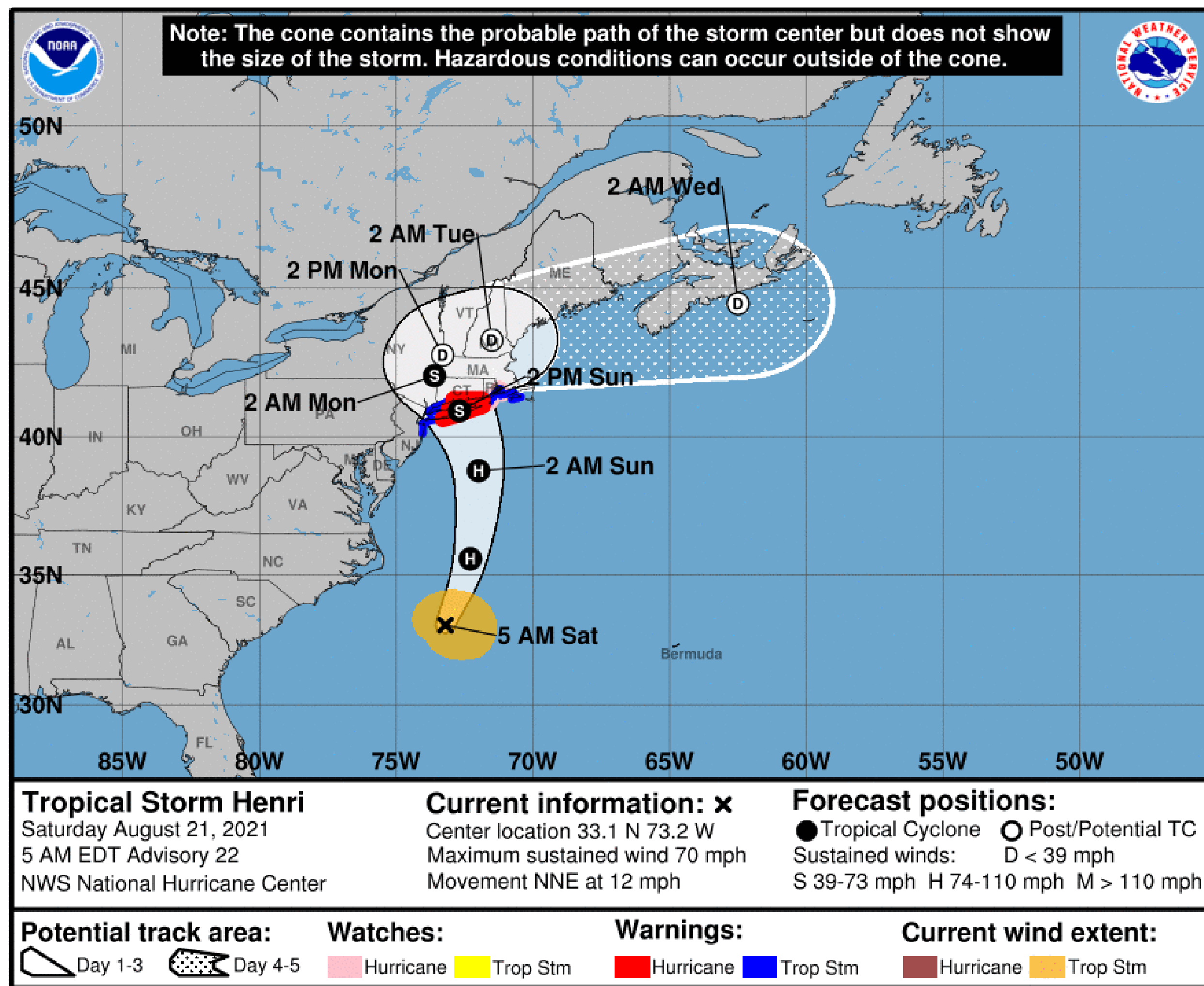
■ What has changed?

- Forecast track of TS Henri is converging, likely to make landfall across E LI and SE CT on Sunday.
- Henri has increased in forward speed, moving to the north faster than previous.
- Confidence is increasing in damaging to destructive winds, major (life threatening) storm surge and flooding rains for LI and CT.
- Forecast precipitation amounts have increased and expanded to the west. Flood watches have been posted for the entire area.



Situation Overview

Tropical Storm Henri



NOTE: Do not focus on the exact track.

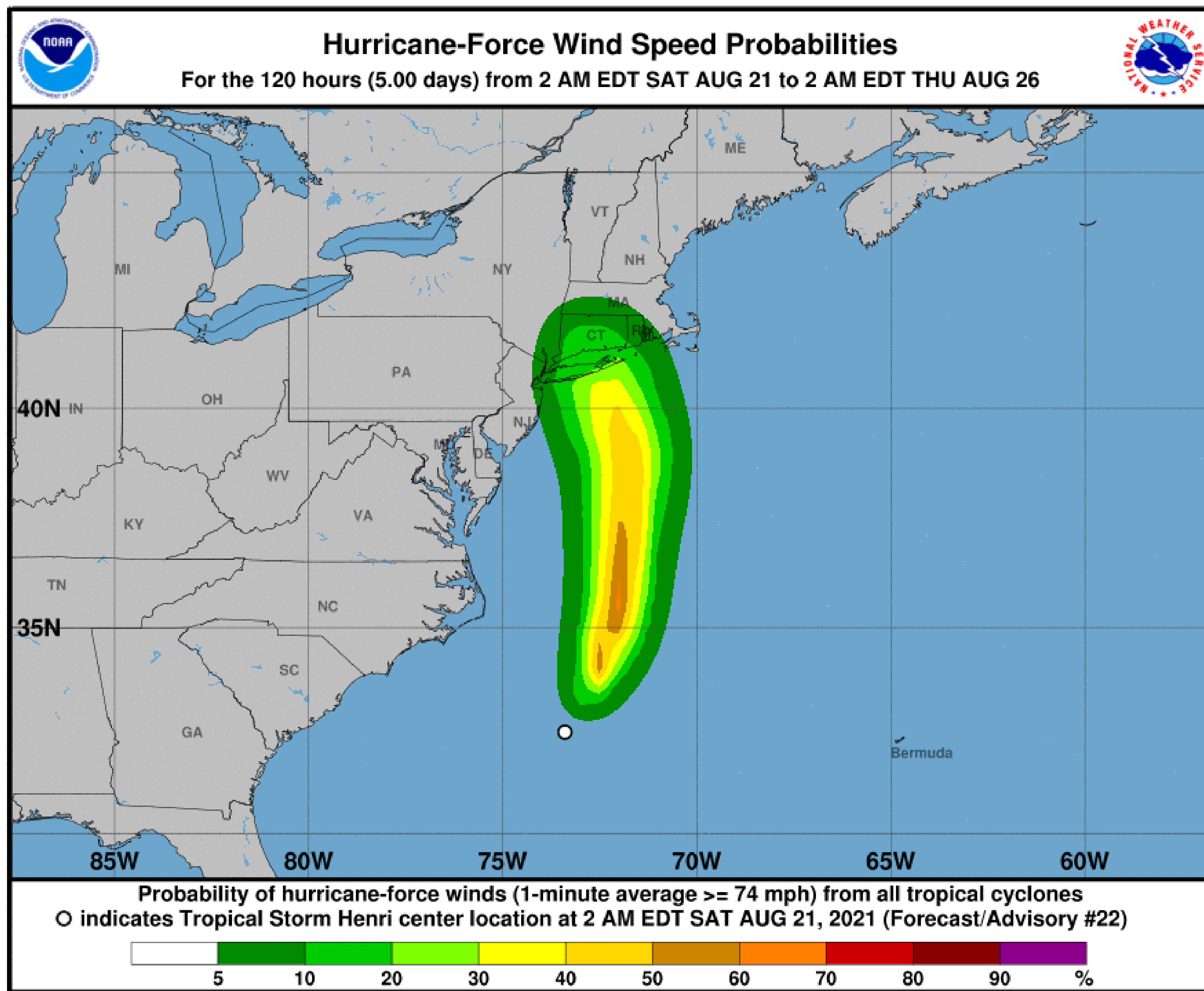
Impacts can occur well outside the area enclosed by the cone.

- TS Henri is expected to strengthen to a hurricane today as it tracks north and then northwest.
- It is expected to make landfall as a Cat 1 hurricane over eastern LI early Sunday afternoon, and continue into CT while weakening Sunday evening.
- Dangerous rip current and high surf conditions are expected to develop by this evening across ocean waters.
- Damaging to destructive wind, life threatening storm surge and heavy rainfall impacts are likely tonight into Sunday Night for LI and CT.



Damaging to Destructive Wind Threat

Tropical Storm Henri



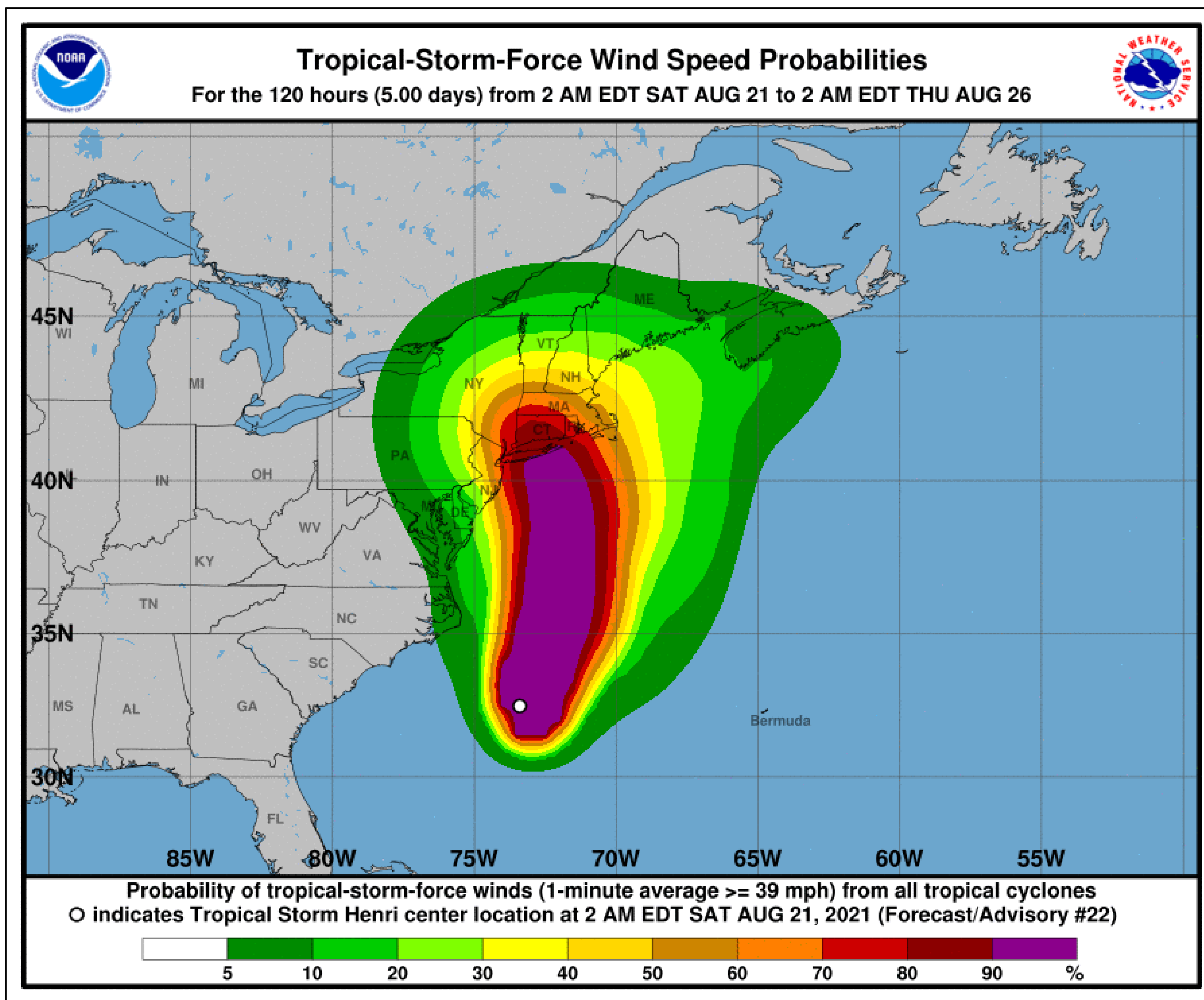
Eastern LI and SE coastal CT

- **Winds** – 75 mph sustained and gusts 90-100mph.
- **Likely Timing** – Sunday morning into afternoon.
- **Impacts** – Extensive damage and uprooting of trees, power lines and poles. Damage to roofs and siding. Significant damage to mobile homes.
- **Note:** The area hasn't seen a landfalling hurricane since Gloria in 1985, which at that time caused extensive and long duration tree damage and power outages.



Strong to Damaging Wind Threat

Tropical Storm Henri

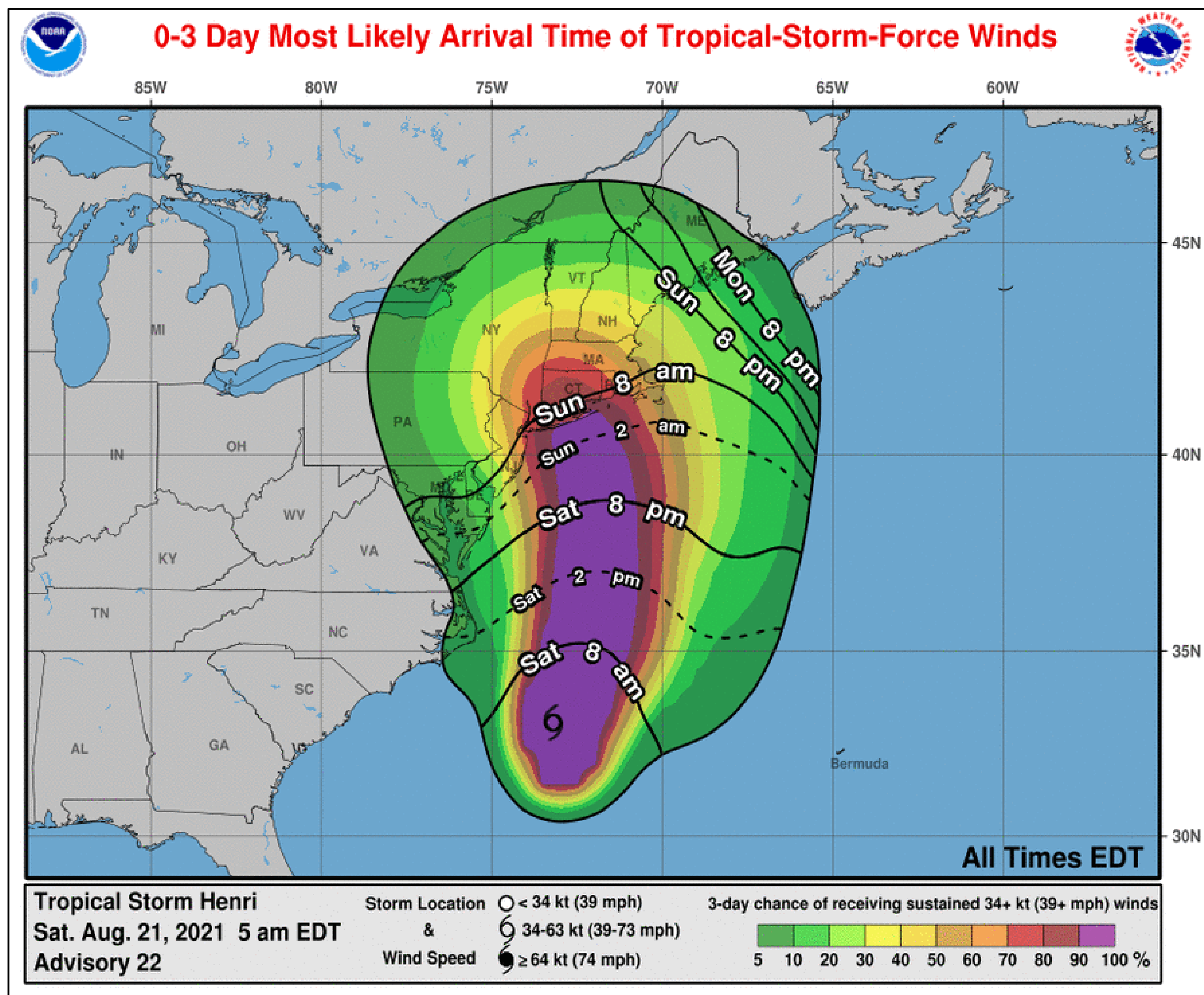


- **Nassau County, coastal SW CT, southern Westchester, and interior coastal CT**
 - **Winds** - Moderate potential for 50-60 mph sustained winds with 70-80 mph gusts.
 - **Likely Timing** - Sunday morning into afternoon.
 - **Impacts** – Widespread tree damage and power line damage likely. Wind impacts could be on the same level of Isiaias.
- **NYC/NJ metro counties-**
 - **Winds**- Moderate potential for 30-40 mph sustained winds with 50-60 mph gusts.
 - **Likely Timing** - Sunday morning into afternoon.
 - **Impacts** – Scattered tree damage and power line damage possible.



Most Likely Time of Arrival of Tropical Storm Force Winds

Tropical Storm Henri

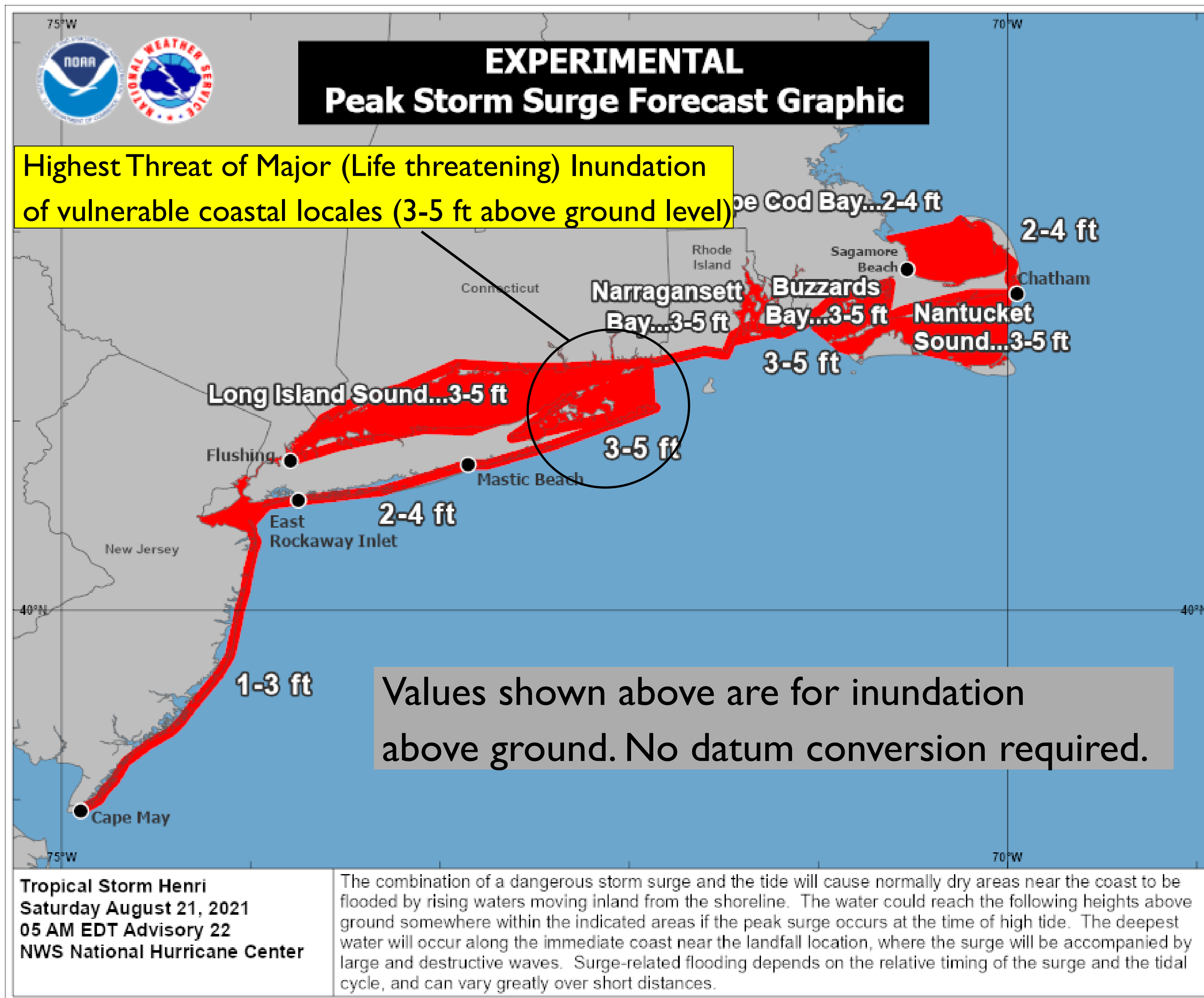


- The most likely arrival time of tropical storm force winds across the Tri-State area is early Sunday morning.
- However, the region could see tropical storm force winds as early as late tonight.



Life Threatening Storm Surge Flooding Threat

Tropical Storm Henri



Along E LI bays/Twin Forks, LI Sound and ocean beachfront

- **Major inundation (Life threatening) threat - 3 to 4, locally 5 ft (AGL) in vulnerable spots.**
- **East end of Long Island and coastal SE CT have the highest threat of widespread major (life threatening) inundation**

Along the southern bays of W LI and Queens

- **Moderate to locally major inundation threat - 2 to 3 ft, locally 4 ft (Great South Bay)**

Along NY/NJ Harbor

- **Minor inundation threat- 1 to 2 ft**

Timing of greatest concern-

- **During the Sunday morning and Sunday Night high tides**

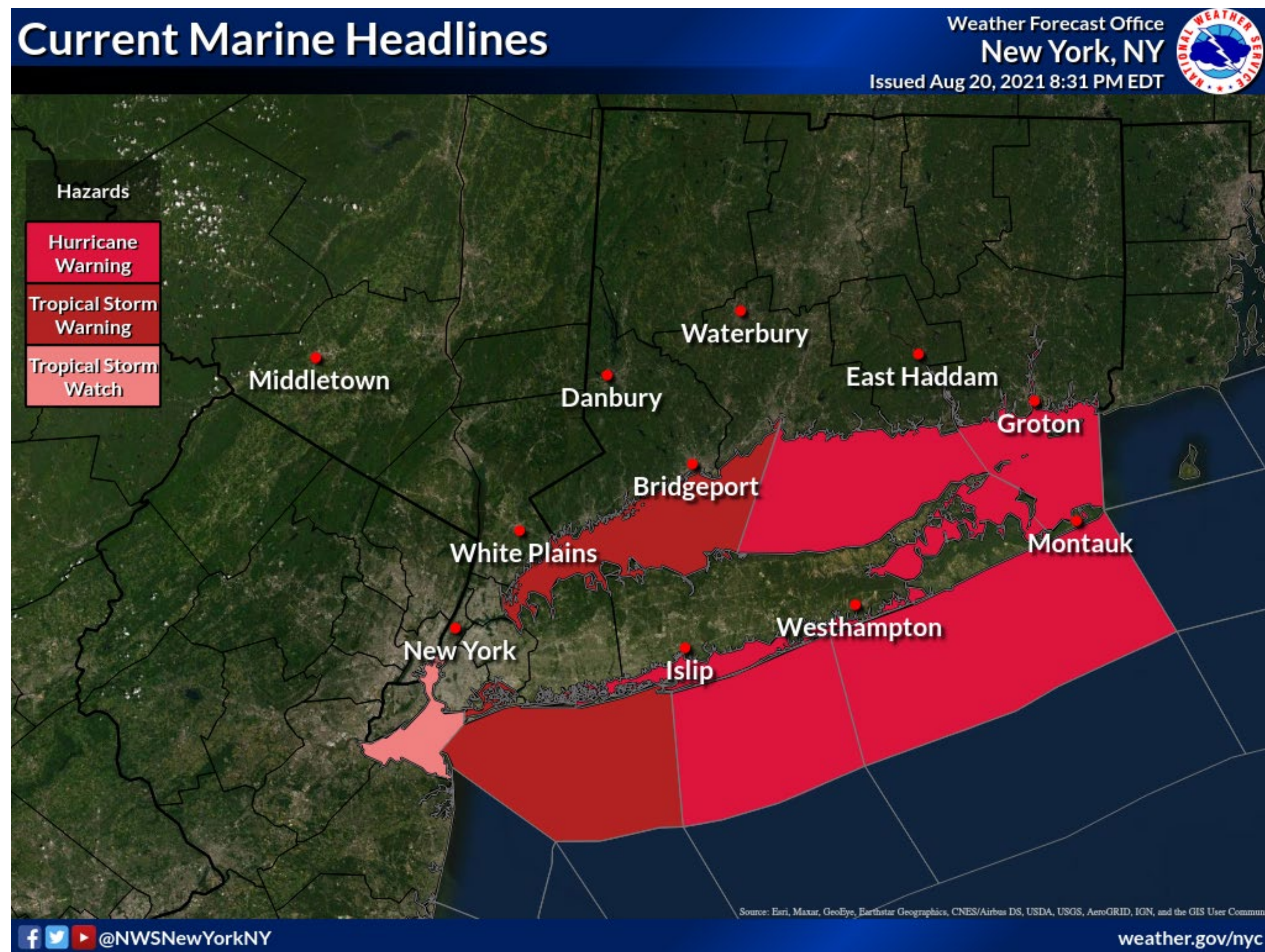
Forecast Challenges

- A continued westward trend will increase the threat for major inundation into the western south shore LI bays, and moderate inundation into NY/NJ harbor.
- Exact magnitude and hardest hit locations will be based on track. Hardest hit locations may be north facing shorelines to west of the track and south facing shorelines to the east of track.



Dangerous Marine and Shoreline Impacts

Tropical Storm Henri



Battering Surf at Ocean beachfront

- **Timing** – Tonight into Sunday Night
- **Surf Height** - 8-12 ft western LI beach, 12-18 ft eastern LI beaches
- **Impacts** – Widespread dune erosion and overwash issues are likely, particularly E LI and orient point. Potential for isolated dune breaches for vulnerable E LI barrier islands.

Marine

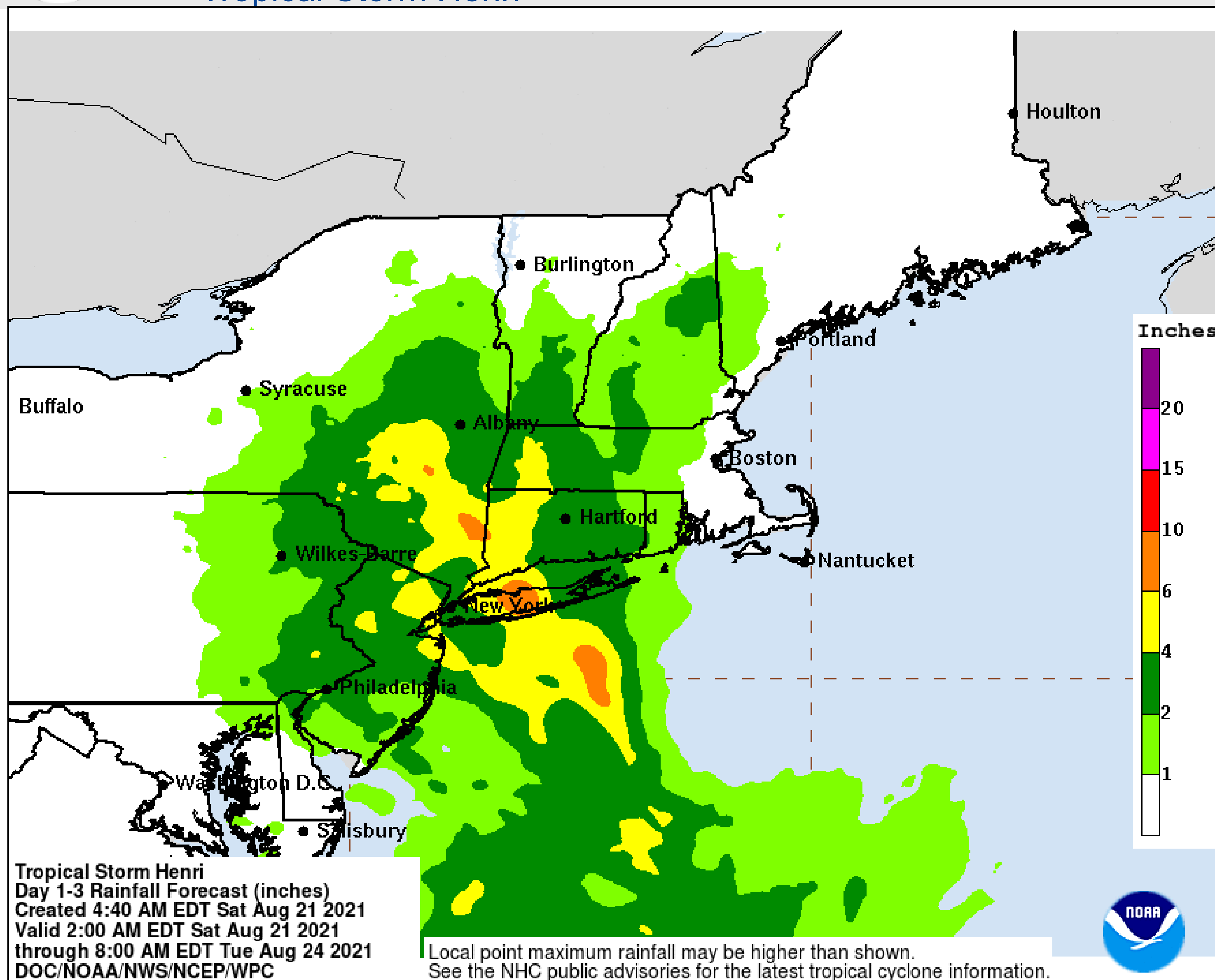
- Tropical storm conditions developing tonight, with Hurricane conditions likely for eastern waters.
- Ocean seas building to 15 to 20 ft on the ocean on Sunday, particularly east of Moriches Inlet.
- Seas on Long Island Sound building to 4 to 7 ft on Sunday.

Dangerous rip currents this weekend through Monday!



Flash Flood Threat

Tropical Storm Henri

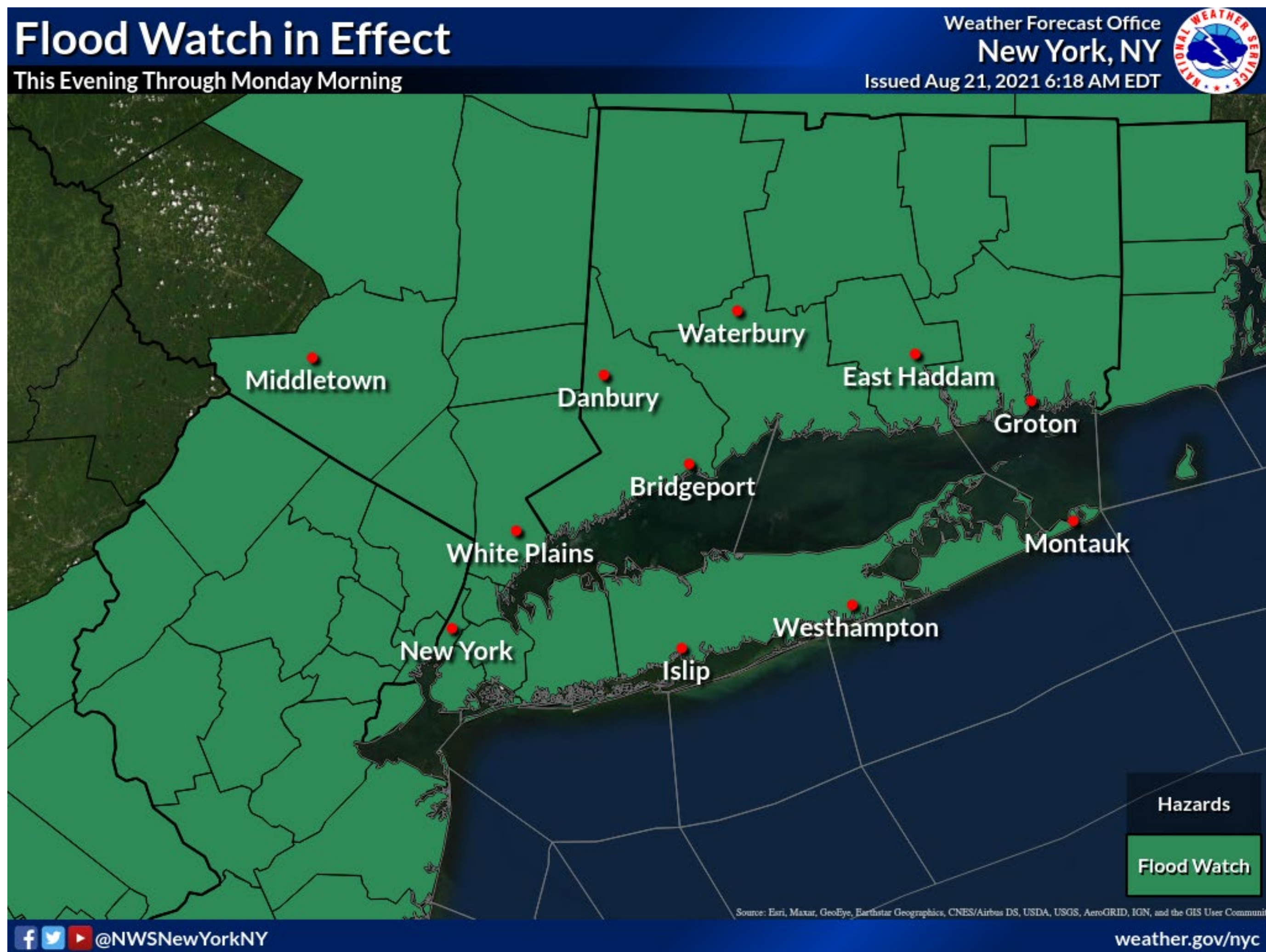


- Storm Total Rainfall forecast tonight through Monday.
 - 3 to 7" with locally higher for much of CT and E LI.
 - 2 to 4" with locally higher amounts for rest of area.
- Max rainfall rates-
 - 1-2"/hr
- Timing-
 - Most widespread and heaviest rainfall likely late tonight into Sunday Night. Rainfall could linger into Monday.



Flash Flood Threat

Tropical Storm Henri



- Flood Watch in Effect for Entire Area
- Timing-
 - Tonight through early Monday morning.
 - Flash flood warnings may be issued for the most impactful rainfall.
- Impacts-
 - Scattered to numerous areas of flash flooding – highest threat for LI and CT
 - Flash flooding of numerous small streams and creeks in S CT
 - Minor to locally moderate flooding on S CT main stem rivers
- Forecast Challenges-
 - Heavy rainfall axis could trend slightly west in the next 24 hours.

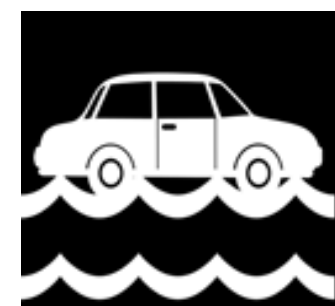


Key Take-Aways

Tropical Storm Henri



Damaging to Destructive winds likely across Long Island and coastal Connecticut, highest threat for E LI and SE CT. Extensive tree and power line damage is expected.



Major (life threatening) inundation threat across vulnerable coastal locales along eastern LI bays/Twin Forks, most of LI Sound and ocean beachfront
Dangerous rip currents and high surf building today, continuing through Sunday Night.



Widespread urban and small stream flash flooding threat for E LI and S CT tonight into Sunday Night. Minor to moderate flooding along large stem rivers likely.





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


Have all storm preparations done by Saturday Night !



Next Briefing: Saturday 3:00 PM EDT Method: [Email]

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