



# TROPICAL STORM HENRI BRIEFING

8PM EDT

Friday, August 20, 2021

Next Briefing: Saturday, August 21, by 8am EDT

*Disclaimer: The information contained within is time-sensitive. Do not use after 8:00am EDT Saturday.*



# Situation Overview

## Tropical Storm Henri

### ■ Current Headlines

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

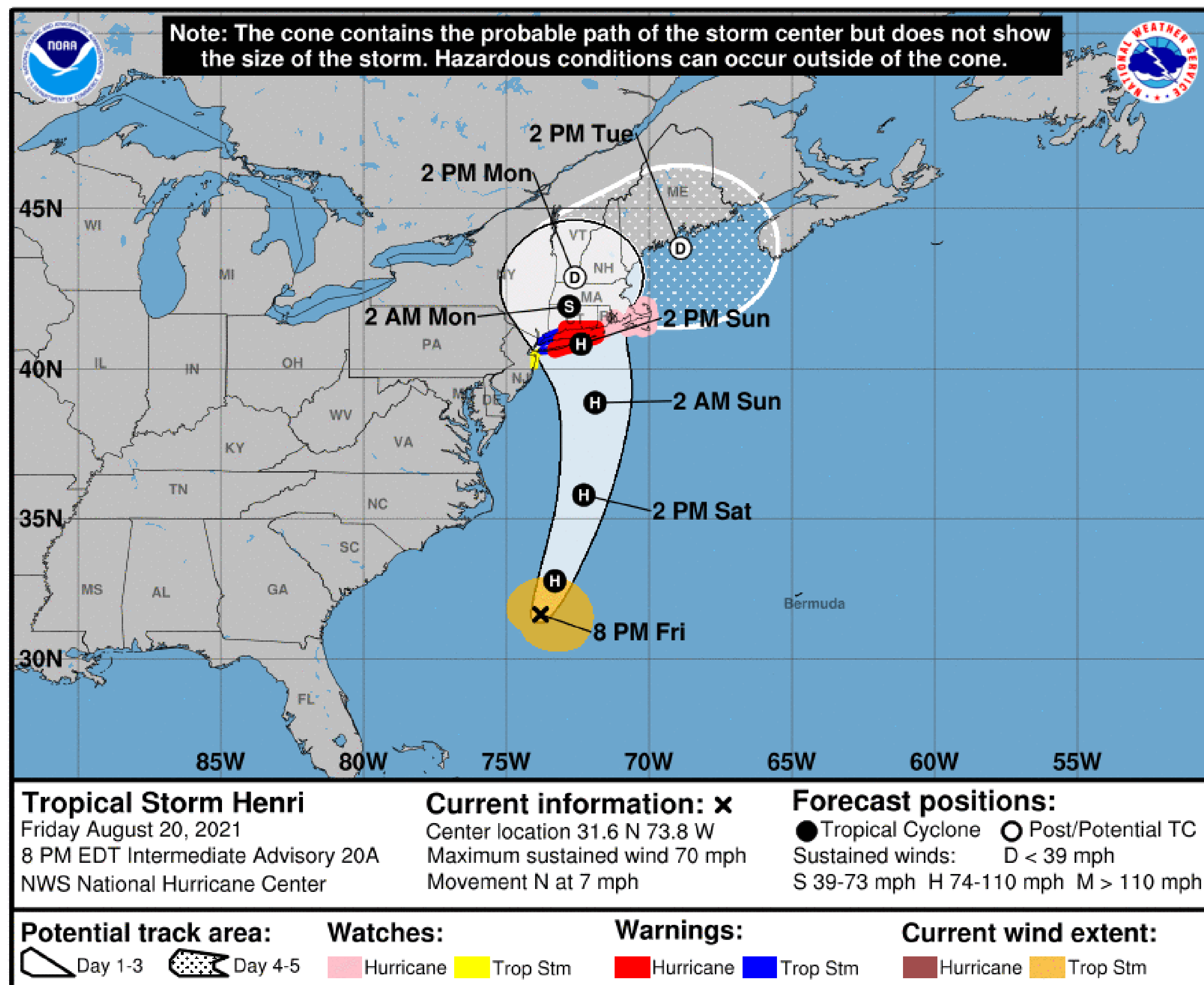
### ■ What has changed?

- Forecast track of TS Henri continues to shift to the west, now likely to make landfall across E LI and SE CT.
- Confidence increasing in damaging to destructive winds, major (life threatening) storm surge and flooding rains for LI and CT.
- Hurricane Watches upgraded to Hurricane Warning for E LI and SE coastal CT
- Tropical Storm Watches upgraded to Tropical Storm Warning for Nassau County, coastal Fairfield and Westchester counties
- Tropical Storm Watch issued for NYC/NJ metro counties
- Storm surge Watches upgraded to warning along most of LI Sound, and all of E LI coast.



# Situation Overview

## Tropical Storm Henri



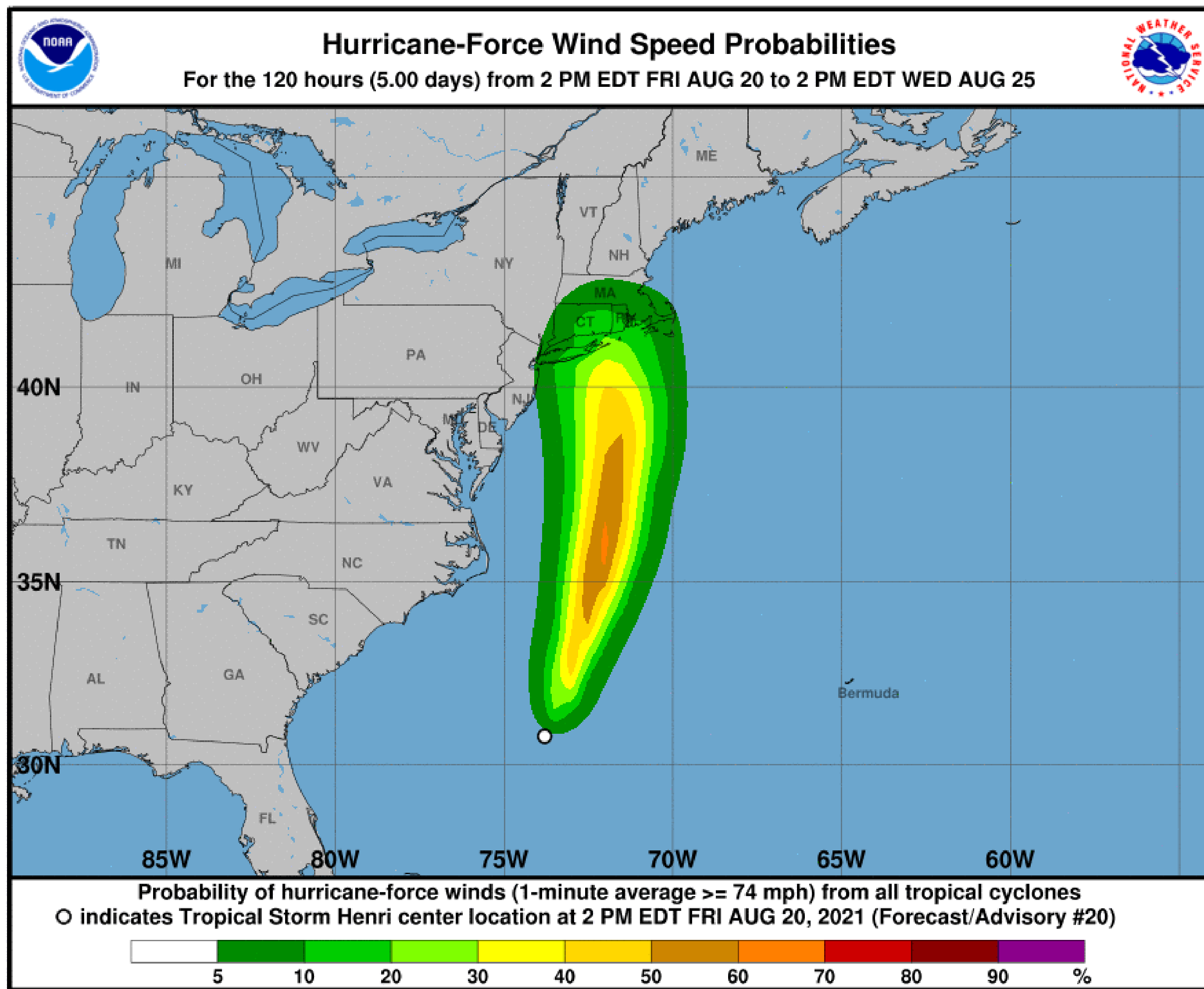
- TS Henri is expected to strengthen to a hurricane through Saturday as it tracks north and then northwest.
- It is expected to make landfall as a Cat 1 hurricane over eastern LI early Sunday afternoon, and continue into CT while weakening Sunday evening.
- Dangerous rip current and high surf conditions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

**NOTE:** Do not focus on the exact track.  
Impacts can occur well outside the area enclosed by the cone.



# Damaging to Destructive Wind Threat

Tropical Storm Henri



## Eastern LI and SE coastal CT

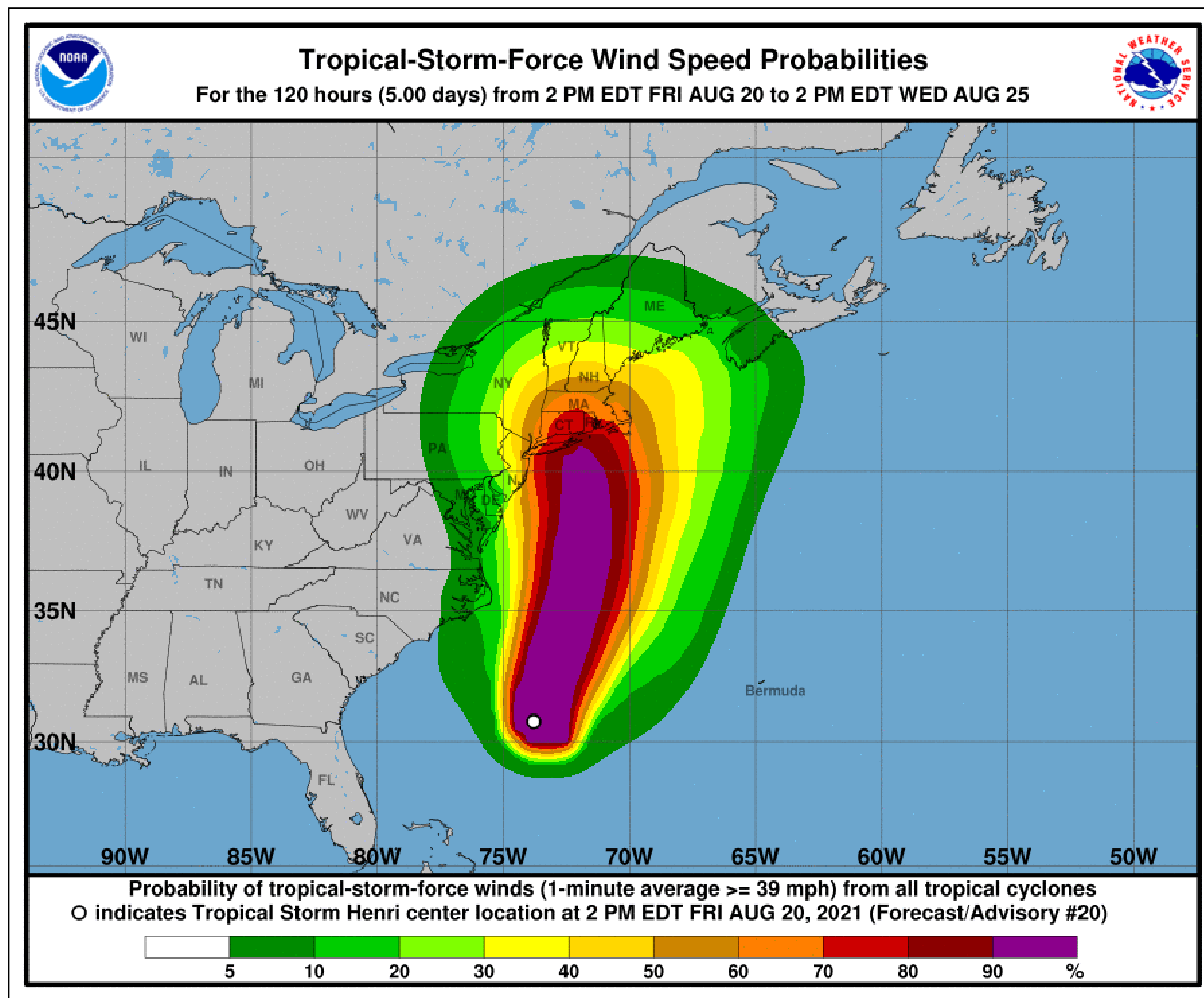
- **Winds** – 75 mph sustained and gusts 90-100mph.
- **Likely Timing** – Sunday morning into afternoon.
- **Impacts** – Extensive damage and uprooting of trees, power lines and poles. Damage to roofs and siding. Significant damage to mobile homes.
- **Note:** The area hasn't seen a landfalling hurricane 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 Irene.

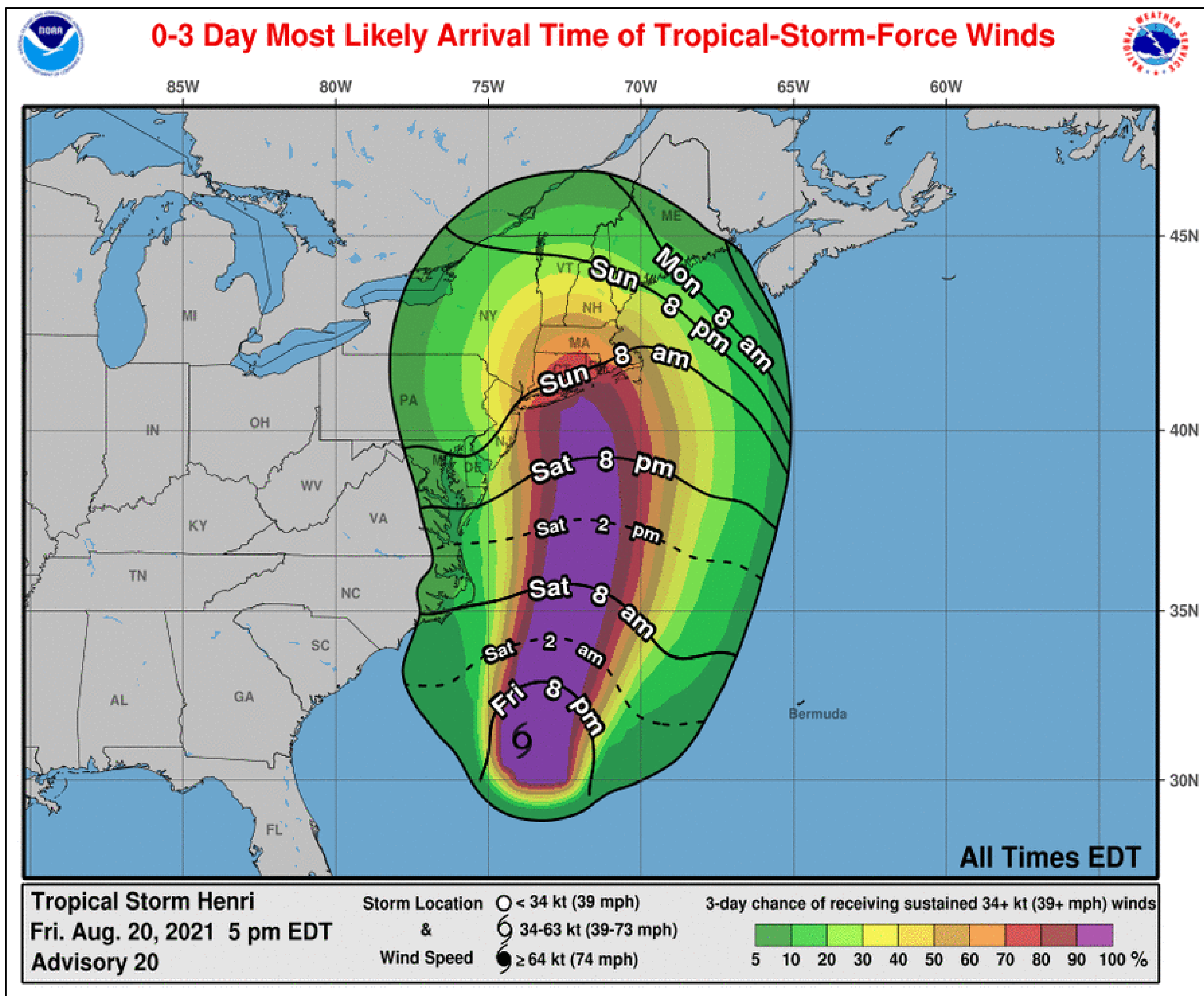
- **NYC/NJ metro counties-**

- **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. Wind impacts could be on the level of Irene.



# Most Likely Time of Arrival of Tropical Storm Force Winds

Tropical Storm Henri

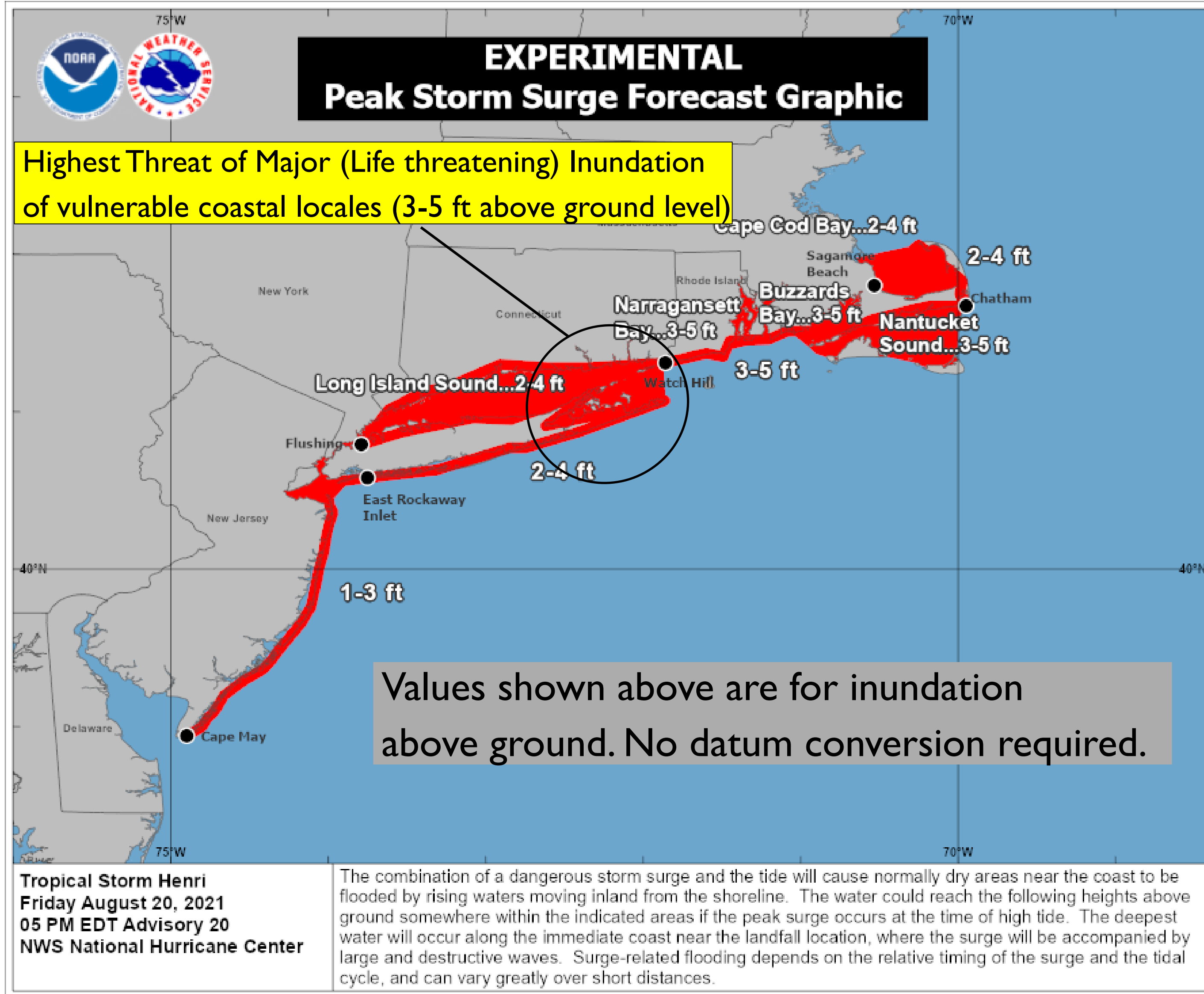


- The most likely arrival time of tropical storm force winds across the Tri-State area is early Sunday morning.
- However, the region could see tropical storm force winds as early as Saturday night.



# 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

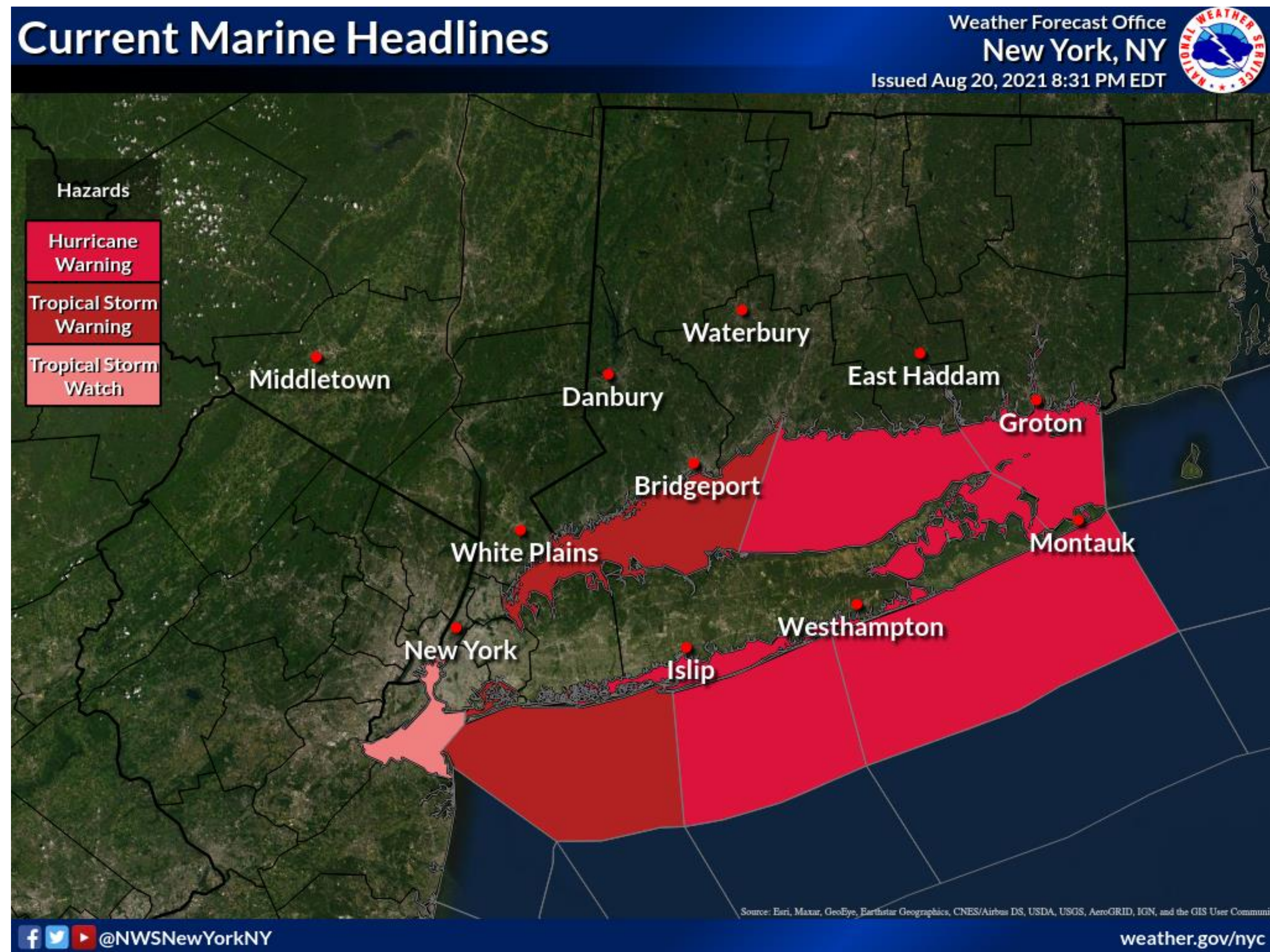
- A continued westward trend will increase the threat for major inundation into the western south shore LI bays, and moderate inundation into NY/NJ harbor.
- Exact magnitude and hardest hit locations will be based on track. Hardest hit locations may be north facing shorelines to west of the track and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





# Dangerous Marine and Shoreline Impacts

Tropical Storm Henri



## Battering Surf at Ocean beachfront

- **Timing** - Sat night 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 Saturday Night, 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.

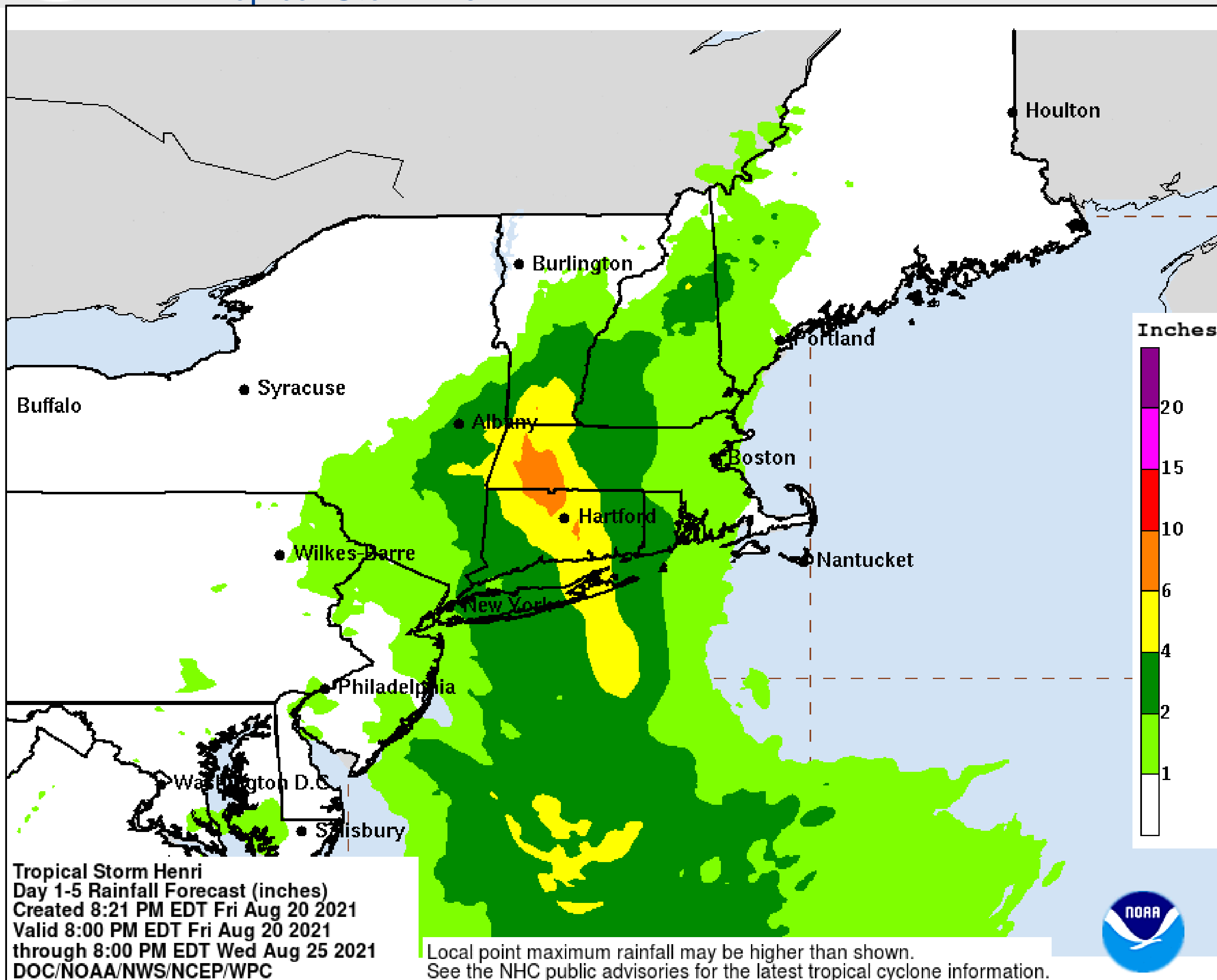
## Dangerous rip currents this weekend through Monday





# Flash Flood Threat

## Tropical Storm Henri

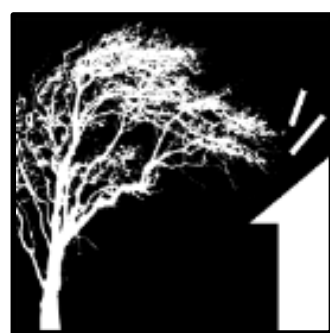


- Storm Total Rainfall forecast Saturday Night through Monday.
  - 3 to 6" with locally higher for much of CT and E LI.
  - 1 to 3" with locally higher amounts for rest of area.
- Max rainfall rates-
  - 1-2"/hr
- Timing-
  - Most widespread and heaviest rainfall likely late Saturday night into Sunday Night. Rainfall could linger into Monday.
- 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.

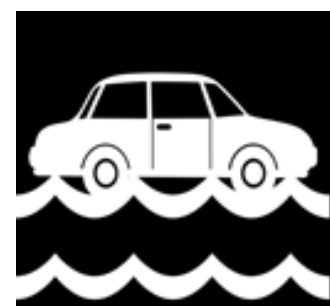


# Key Take-Aways

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 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 on Saturday, continuing through Sunday Night.



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



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


**Have all storm preparations done by Saturday Night**






# Next Briefing: Saturday 8:00 AM EDT Method: [Email]

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