



# TROPICAL STORM HENRI BRIEFING

1200 PM EDT  
Sunday, August 22, 2021

Next Briefing: Sunday, August 22, by 8pm EDT

*Disclaimer: The information contained within is time-sensitive. Do not use after 8pm EDT Sunday.*



# Situation Overview

## Tropical Storm Henri

### ■ Current Headlines

- Tropical Storm Warning for all of Long Island and S CT, and Westchester.
- Storm Surge Warnings continue for N Queens and Bronx and northern and eastern portions of Long Island, S Westchester, and S Ct.

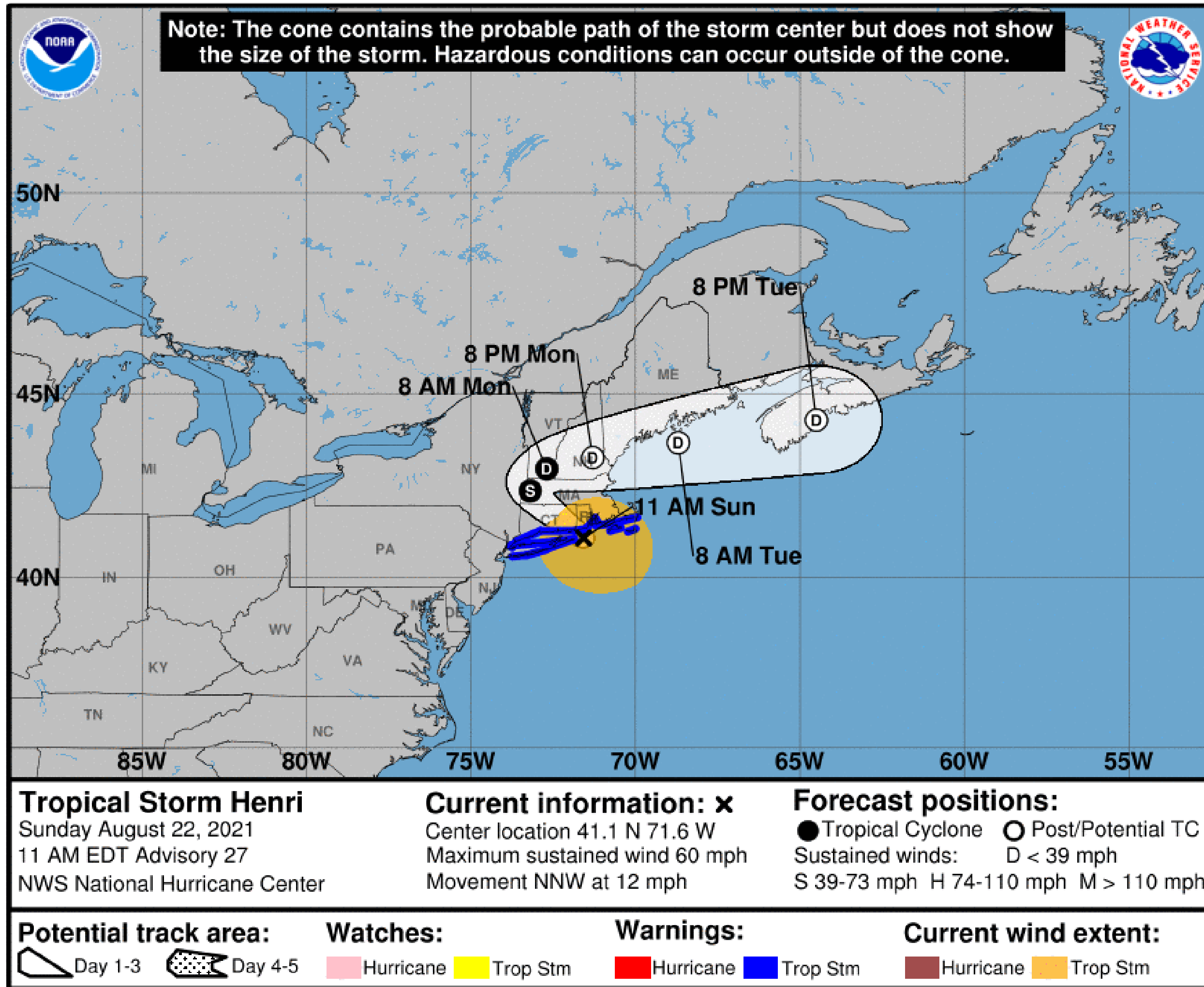
### ■ What has changed?

- Tropical Storm Warnings dropped for NYC and NJ
- Hurricane Warnings downgraded to Tropical Storm Warnings
- Storm Surge Watch for SW LI cancelled
- Henri has weakened to a tropical storm with landfall expected to be across Rhode Island by early afternoon.
  - The threat for hurricane conditions has ended, with tropical storm conditions still expected for CT and LI.
- Flood Watch for the entire area has been extended through Monday evening.
  - Minor to locally moderate main stem river flooding across northeastern NJ, Lower Hudson valley and southwestern CT is possible.



# Situation Overview

## Tropical Storm Henri



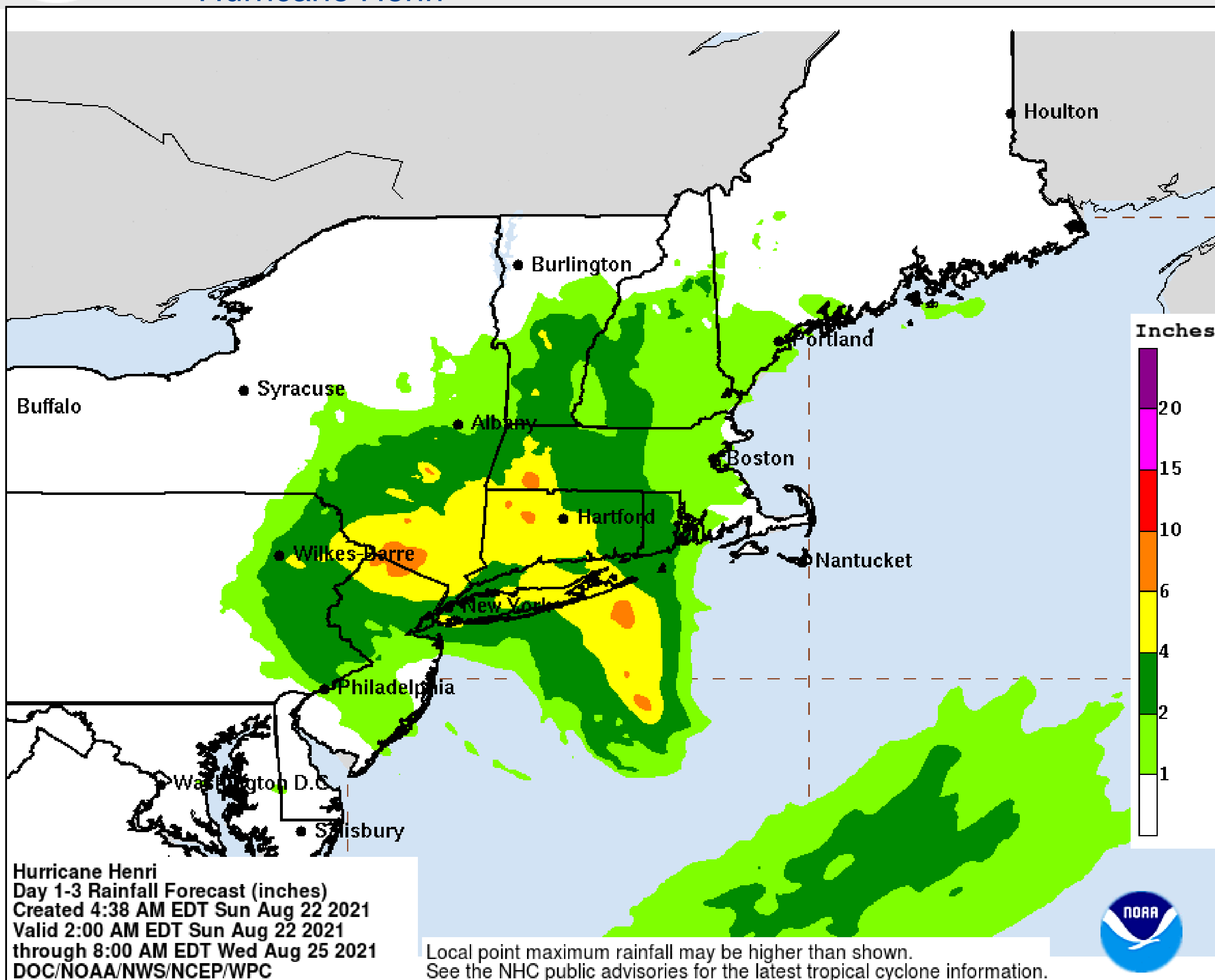
- Tropical Storm Henri is expected to make landfall in Rhode Island early this afternoon and continue northeast into CT while weakening into this evening.
- Dangerous marine, rip current, and high surf conditions through tonight
- Flooding rainfall threat for the entire region through Monday.
- Damaging winds for far eastern portions of the area.
- Moderate to locally major storm surge for portions of the coast.

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



# Flash Flood Threat

Hurricane Henri



- **Additional Rainfall forecast through Monday.**

- 4 to 6" with locally 8" for much of the Lower Hudson Valley, CT, E LI and NE NJ
- 2 to 4" with locally 6" for southwestern portions of area.

- **Max rainfall rates-**

- 1-2"/hr

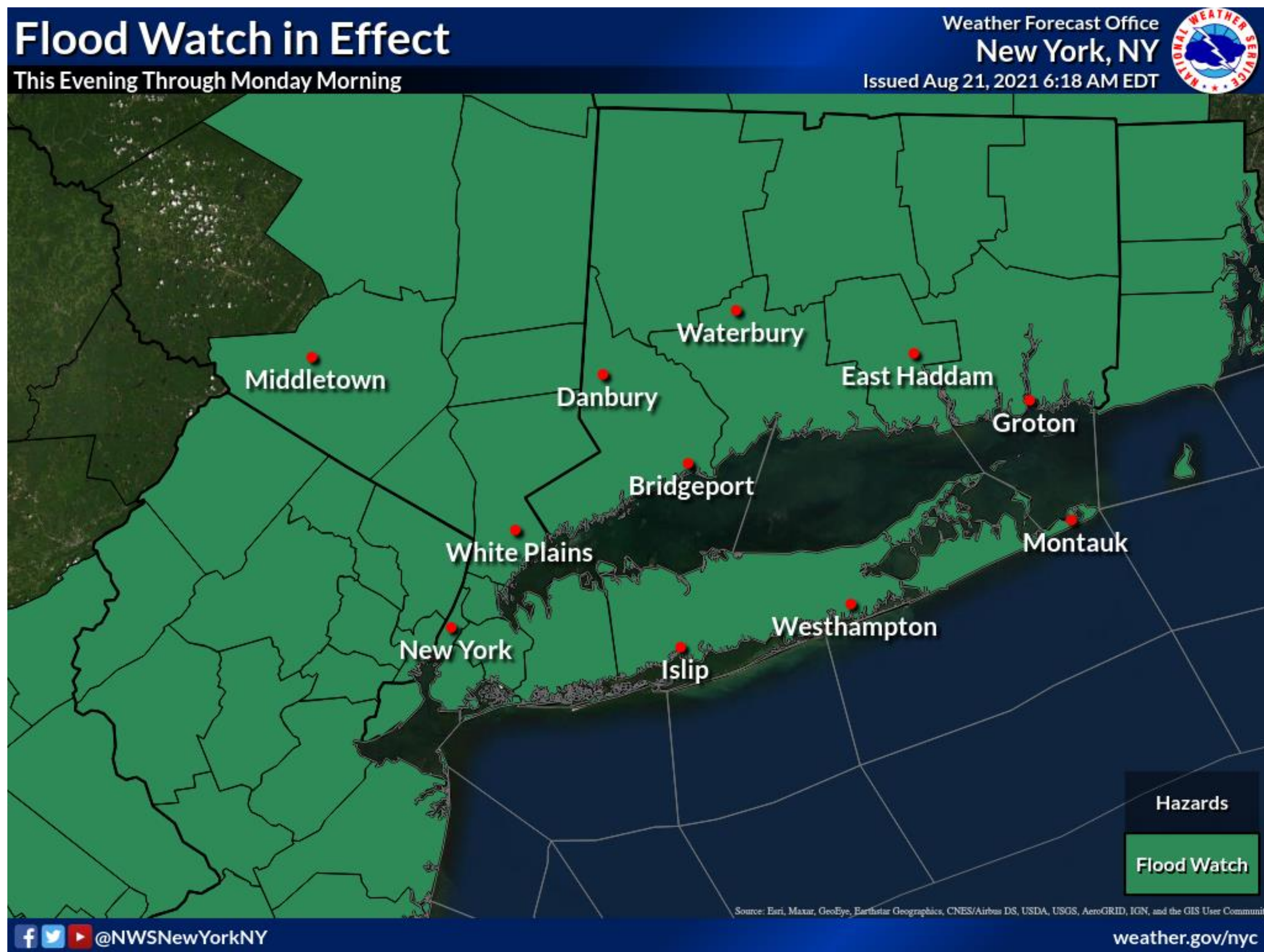
- **Timing-**

- Most widespread and torrential rainfall across the entire area today shifting into NW portions of the CWA tonight.
- Then bands of heavy rain will works back east through the areas on Monday.



# Flash Flood Threat

Hurricane Henri



- **Flood Watch in Effect for Entire Area**
- **Timing-**
  - Tonight through early Monday morning.
- **Impacts-**
  - Widespread urban and poor drainage flash flooding
    - Potentially rising to considerable severity level.
  - Flash flooding of numerous small streams and creeks, particularly in S CT.
  - Minor to locally moderate flooding on S CT main stem rivers possible
- **Forecast Challenges-**
  - Heavy rainfall axis will likely pivot and stall across the NYC/NJ metro, Lower Hudson and SW CT tonight, posing a considerable flash flood threat, before moving eastward tonight.
  - Urban and poor drainage flooding will be exacerbated during the times of high tide t and tonight in coastal communities, including tidally affected riverine communities.



# Damaging Wind Threat

Hurricane Henri

## SE CT

- **Peak winds** – 30-50 mph sustained with gusts 60-70 mph.
- **Likely duration** – into early this evening.
- **Impacts** – Widespread tree damage and power line damage likely.

## LI, SW CT, and Westchester

- **Peak Winds** - 25-40 mph sustained winds with gusts to 50 mph.
- **Likely duration** – into this evening.
- **Impacts** – Scattered tree damage and power line damage likely. Wind impacts could be on the same level of Isaias.

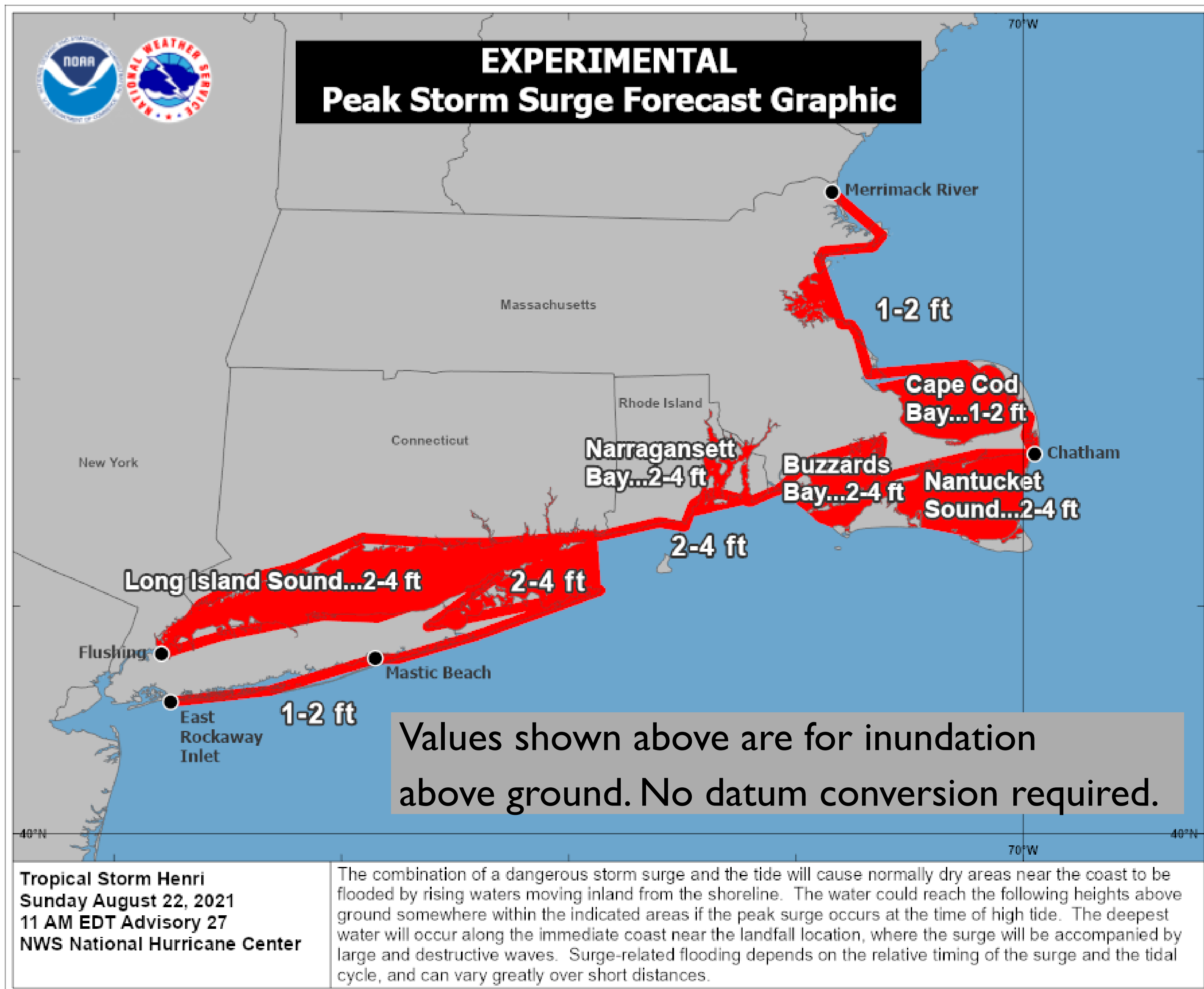
## NYC, NE NJ, Lower Hudson Valley -

- **Peak Winds**- 15-20 mph sustained winds with gusts 30 to 35 mph.
- **Likely duration** – into this evening.
- **Impacts** – Isolated tree damage and power line damage possible.



# Storm Surge Flooding Threat is Decreasing

Tropical Storm Henri



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

- **Moderate to locally Major inundation threat - 2 to 3 ft, locally 4 ft (AGL) in vulnerable spots, particularly through around 2pm.**
  - East end of Long Island, north shore of E LI, and north facing shorelines of the Great South Bay have the highest threat of major inundation

Along the southern bays of LI

- Minor to Moderate inundation threat this evening— 1 to 2 ft, locally 3 ft. Highest threat across north facing shorelines of the barrier island.

Along NY/NJ Harbor

- Minor inundation threat evening— Up to 1 ft.

Timing of greatest concern-

- During This afternoon and this evening's high tides

Forecast Challenges

- The weaker and further east track has decreased the magnitude of the storm surge threat, but still locally life threatening surge.
- Hardest hit locations will be north facing shorelines of LI, the twin forks and ocean beachfront
- Storm surge, particularly in the eastern bay areas, may not fully recede after today's morning/early afternoon high tide, before tonight's evening/night high tide.



# Dangerous Marine and Shoreline Impacts

Hurricane Henri

## Current Marine Headlines

Weather Forecast Office  
New York, NY

Issued Aug 22, 2021 12:26 PM EDT



@NWSNewYorkNY

weather.gov/nyc

### Battering Surf at Ocean beachfront

- **Timing** – through around 2am
- **Surf Height** – 4-7 ft western LI beaches, 7-11 ft eastern LI beaches
- **Impacts** – Widespread dune erosion and localized overwashes are likely, particularly E LI and Orient point.

### Marine

- Tropical storm conditions into tonight.
- Ocean seas 8 to 12 ft on the ocean, east of Moriches Inlet.
- Seas on Long Island Sound building to 4 to 7 ft today.

### Dangerous rip currents through Monday!



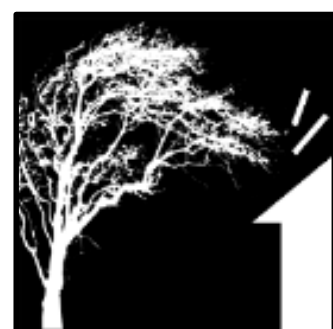


# Key Take-Aways

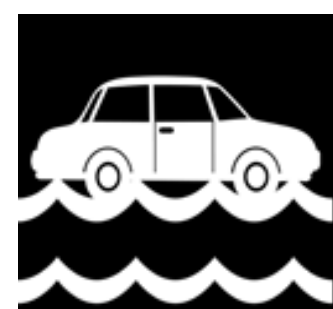
## Hurricane Henri



Considerable urban and small stream flash flooding threat through Monday. Minor to moderate flooding possible along large stem rivers.



Damaging winds across SE CT into early this evening. Widespread tree and power line damage .




Moderate to locally Major inundation threat across vulnerable coastal locales along eastern LI bays/Twin Forks, most of LI Sound and ocean beachfront into next high tide. Dangerous rip currents and high surf building through tonight. Widespread dune erosion and localized overwashes along ocean beach front.





Dangerous marine conditions expected across the coastal waters into tonight.



# Next Briefing: Sunday 8:00 PM EDT Method: [Email]

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