



HURRICANE HENRI BRIEFING

5:00 AM ET
Sunday, August 22, 2021

What has changed: Slightly east and slower track. Tropical Storm Warning expanded into portions of eastern MA. Coastal Flood Advisory along the eastern MA coast for tonight's high tide.

Next Briefing: Sunday, August 22 by 6 PM EDT

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



Situation Overview

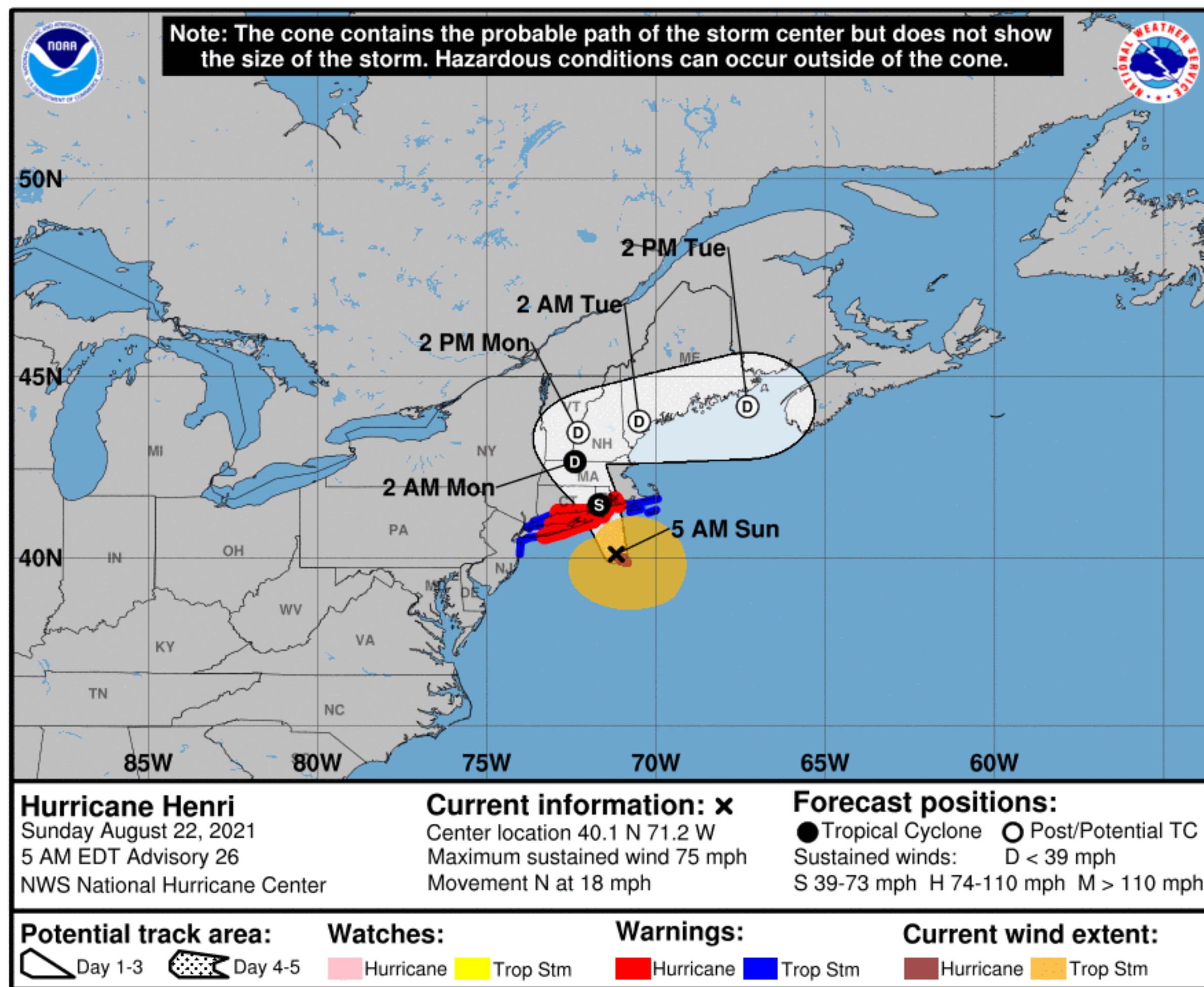
Hurricane Henri

- Track has shifted slightly eastward, with landfall (as strong tropical storm or low-end Category 1 hurricane) expected between eastern Long Island and Narragansett Bay during the early afternoon.
- Storm impacts through early Monday, with heavy rain lingering into Monday as Henri weakens rapidly over land.
- Threats include:
 - Inland flooding rains – CT into western/central MA highest risk
 - Storm surge flooding and beach erosion along the south coast
 - Damaging winds east of the track – RI highest risk



Situation Overview

Hurricane Henri



- Hurricane Warnings in effect for coastal RI (including Block Island) and portions of southern CT
- Tropical Storm Warning in effect for inland CT, RI, portions of MA including Cape Cod, Martha's Vineyard, and Nantucket
- Storm Surge Warning in effect for all of CT, RI, and southern MA coastlines as far north as Chatham
- Cone represents historical error
 - Storm stays within cone 2/3 of time
 - Storm can track outside 1/3 of time

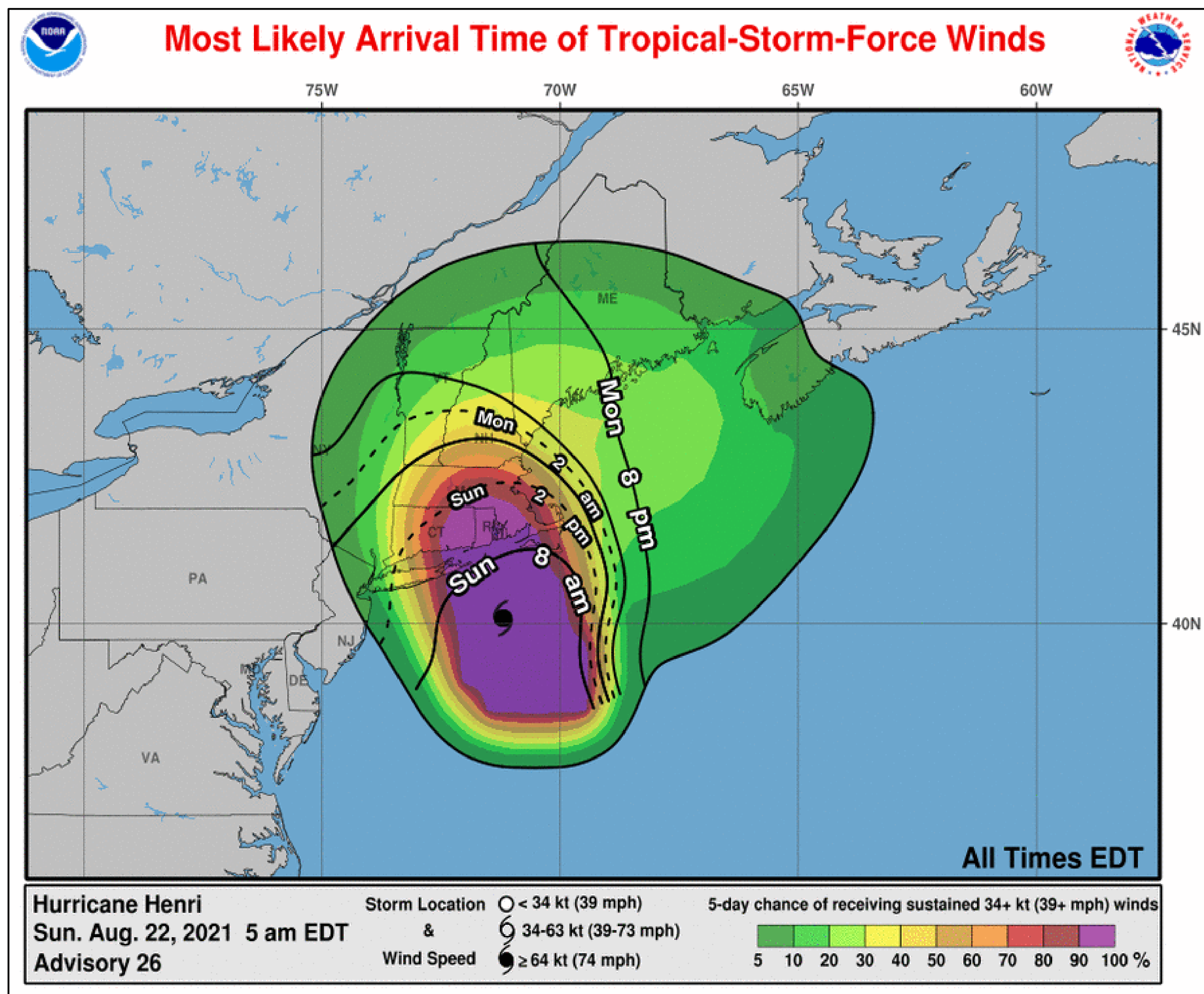
NOTE: Do not focus on the exact track.

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



Most Likely Time of Arrival

Hurricane Henri

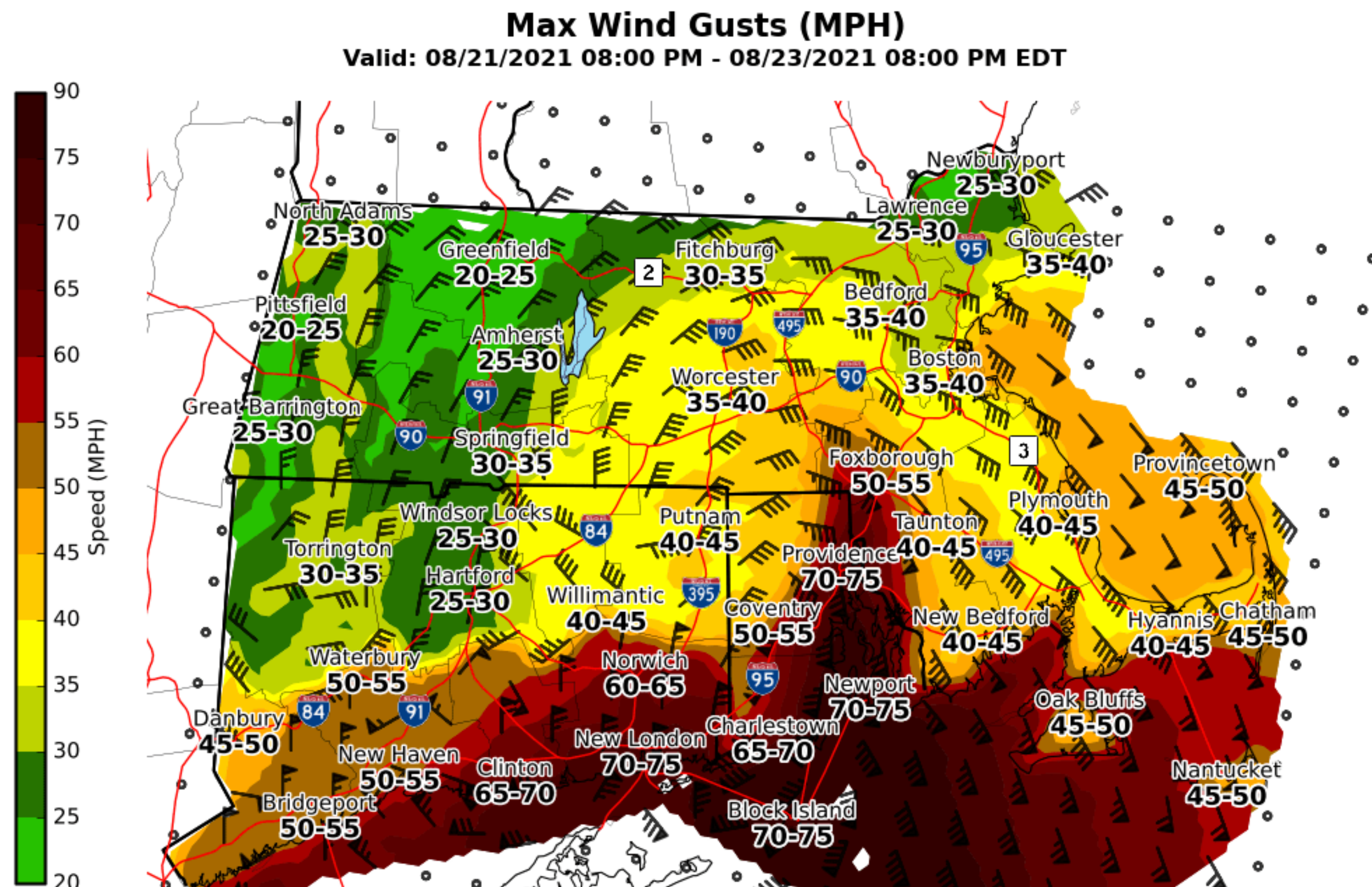


- The most likely time of arrival of tropical storm force winds today.



Maximum Wind Gusts

Hurricane Henri



- Dangerous winds may gust to 60-70+ mph in southern RI as Henri makes landfall, then weakens as it heads northwest.
- Elsewhere, winds may gust to 30-50 mph over portions of northeast CT, central and eastern MA, and northern RI during the late morning and afternoon, rapidly diminishing after about 9 PM this evening.



National Weather Service
Boston/Norton, MA
08/22/2021 04:52 AM EDT

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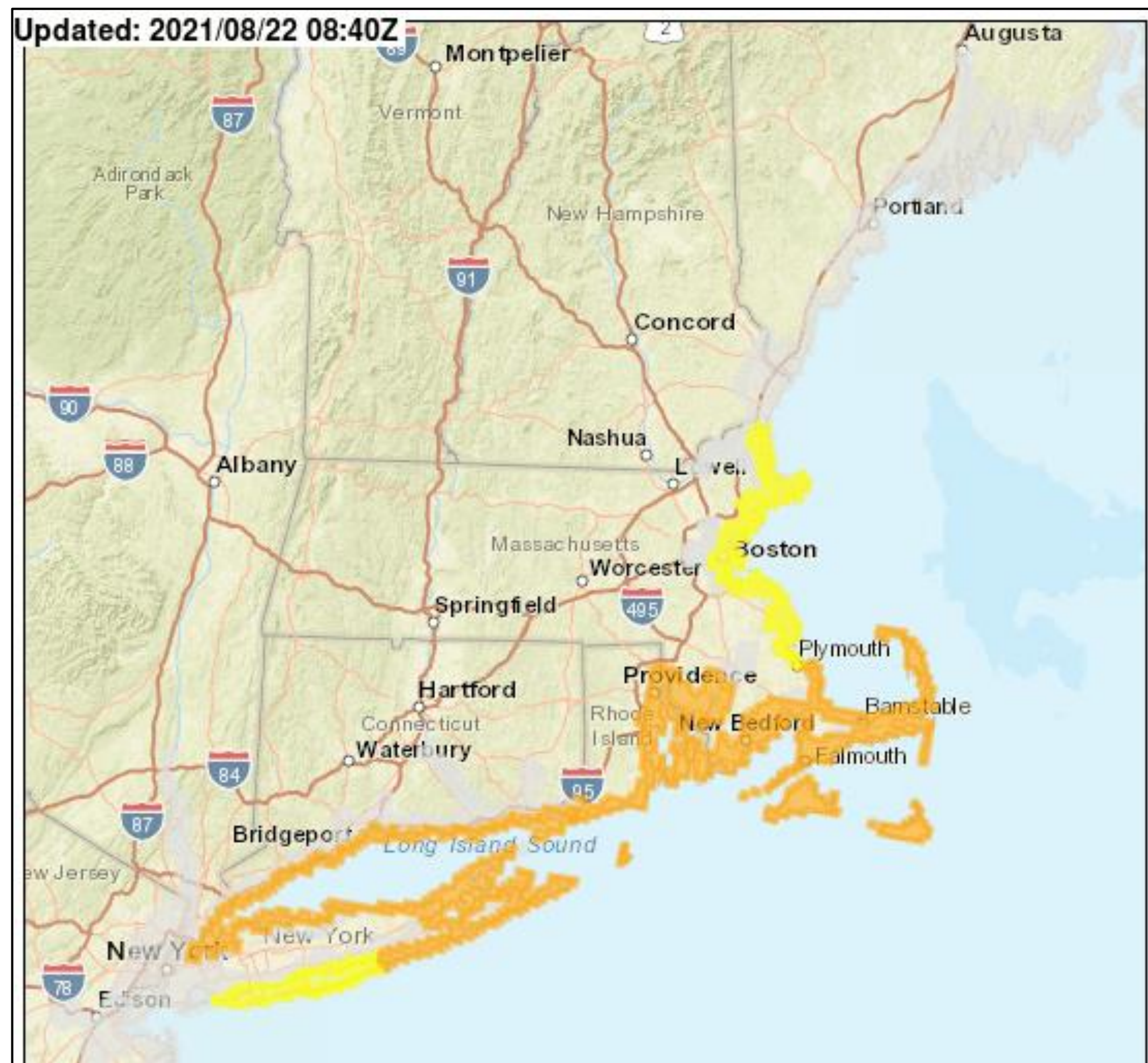


[weather.gov/Boston](https://www.weather.gov/Boston)



Potential Storm Surge Impacts

Hurricane Henri



Storm Surge Threat

Potential for storm surge flooding greater than 9 ft above ground

Potential for storm surge flooding greater than 6 ft above ground

Potential for storm surge flooding greater than 3 ft above ground

Potential for storm surge flooding greater than 1 ft above ground

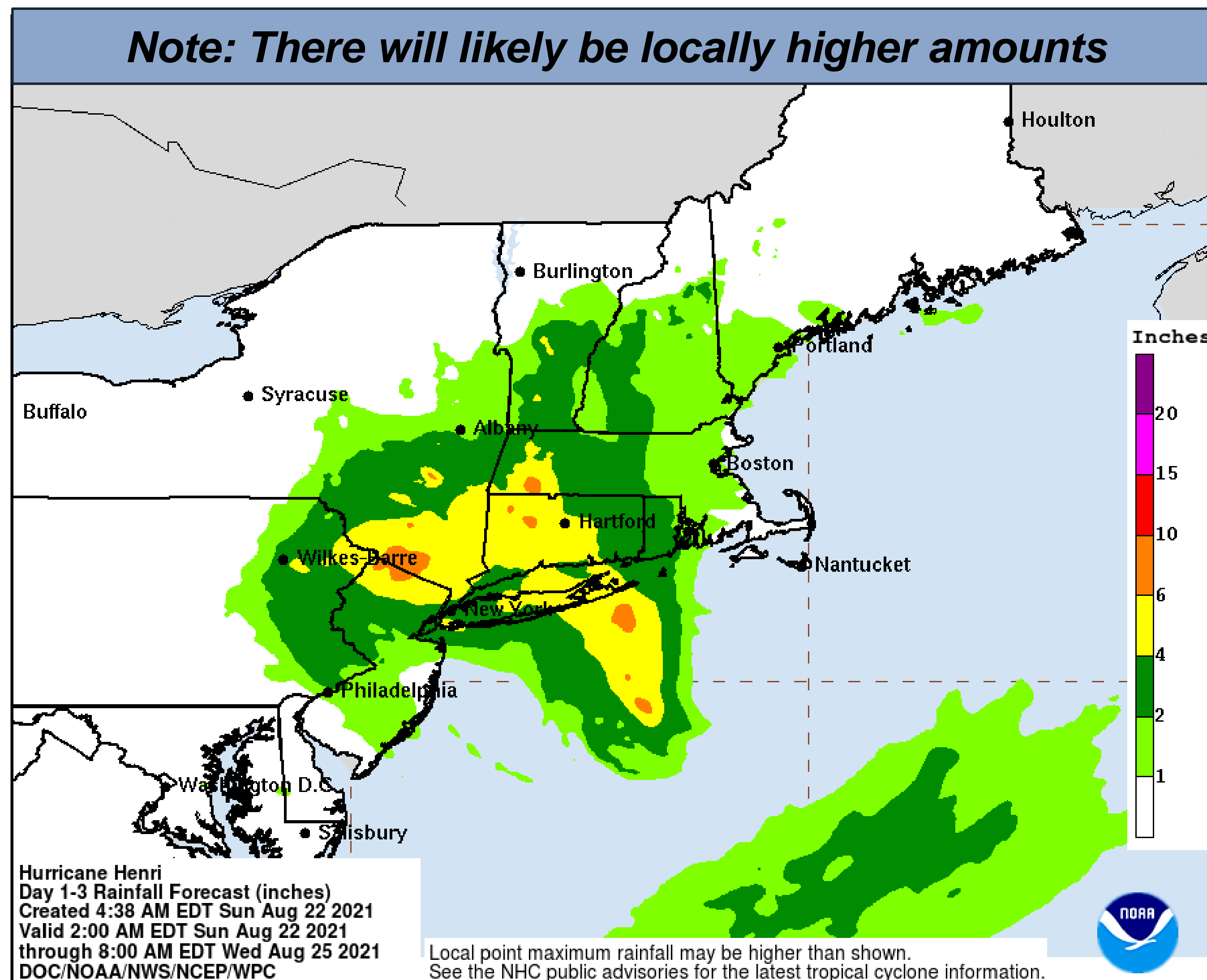
Little to no storm surge flooding

- Storm surge flooding likely, with inundation greater than 3 ft (2-4 ft) above ground level possible along the south coast. Narragansett Bay is most at risk.
- Maximum surge may come at low tide during the early afternoon on the south coast. But evening tide could still be a problem, since southerly flow may prevent water from evacuating bays and harbors.
- The east coast of MA north of Plymouth could experience up to a foot of inundation.



Expected Storm Total Rainfall

Hurricane Henri

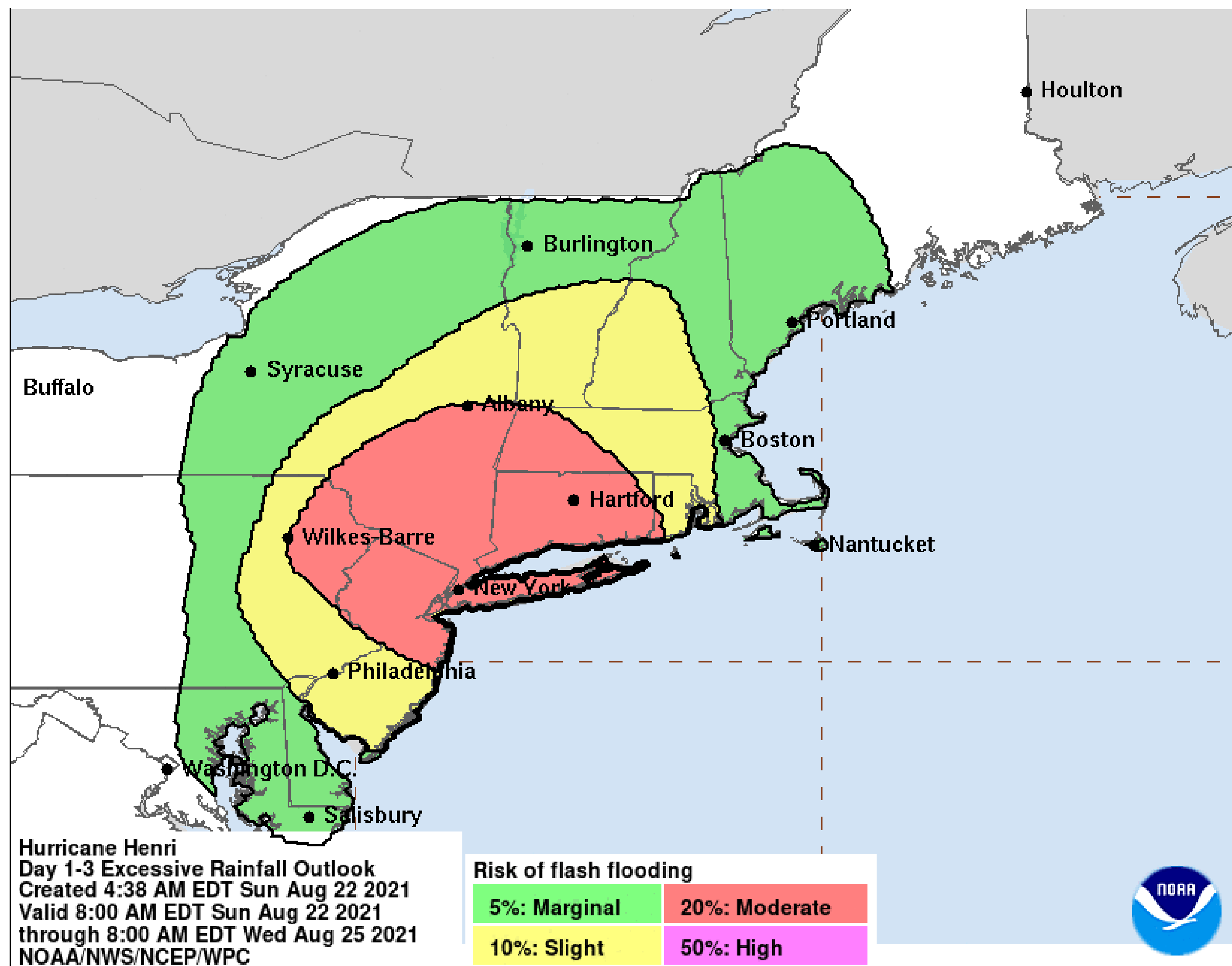


- Storm Total rainfall forecast
- Heavy rain axis has shifted westward into CT and western/central MA
- Up to 6-10 inches possible and track dependent



Excessive Rainfall Outlook

Hurricane Henri

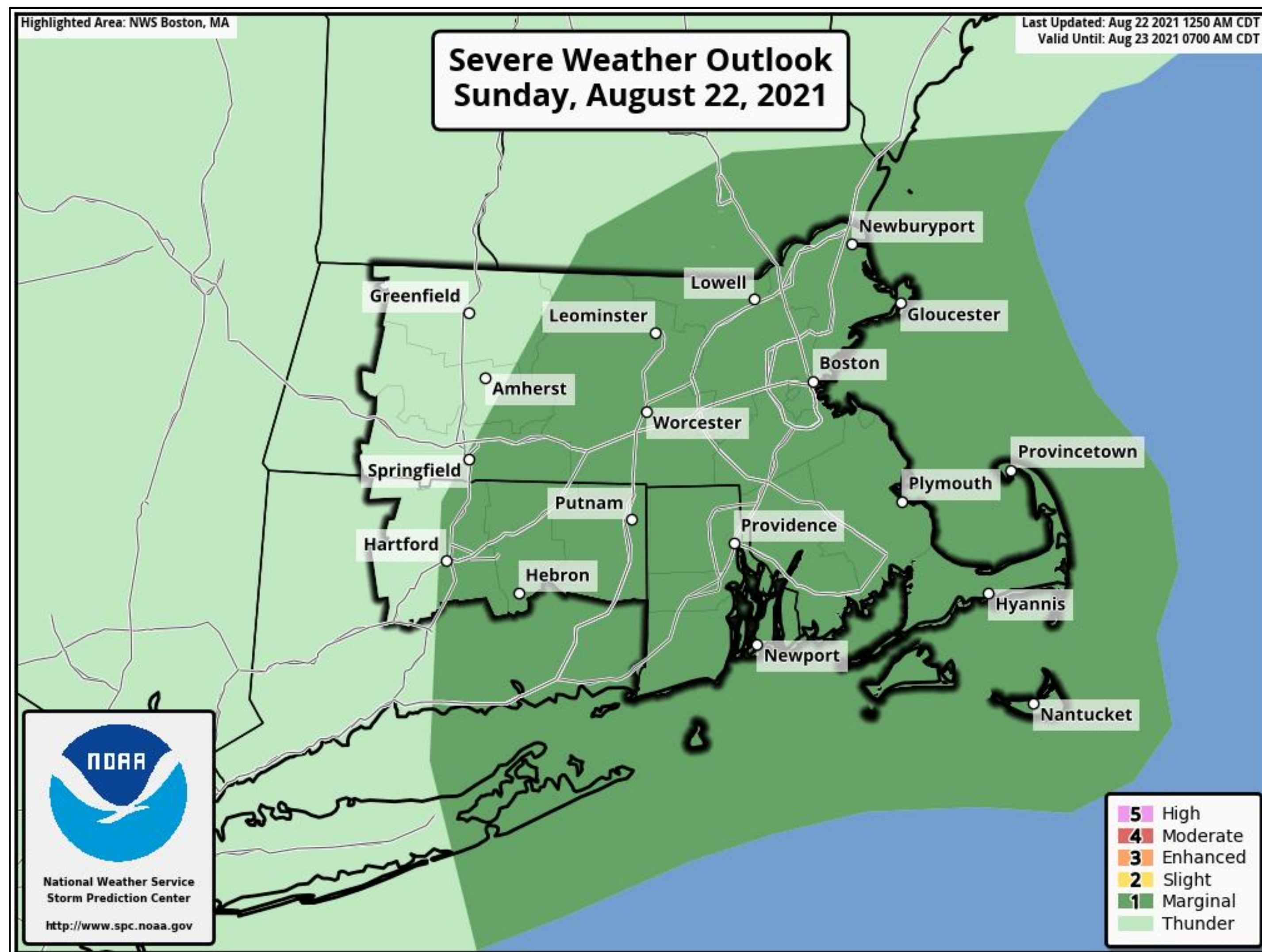


- Areas outlined in red have the greatest potential for flash flooding today and tonight



Tornado Potential

Hurricane Henri



- There is a low risk of an isolated tornado, mainly this morning through mid-afternoon.



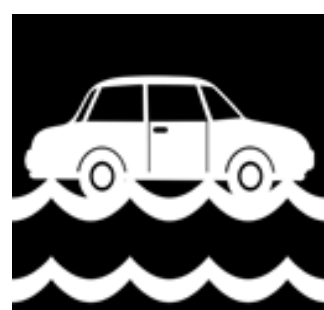
Key Take-Aways

Hurricane Henri

Confidence is high that the event will occur and confidence is high regarding impacts.



Damaging winds expected in southern Rhode Island and damaging gusts are possible elsewhere for a short time this afternoon, especially east of Henri's track. There is a low risk of an isolated tornado today.



Surge flooding likely, especially in Narragansett Bay, Buzzards Bay, and the south coasts of RI and MA.




Rainfall flooding expected. Greatest risk is in CT and western and central MA. River flooding may continue into early next week.





Dangerous marine conditions – tropical storm or hurricane-force winds and high seas. Heavy surf will lead to beach erosion, especially on south-facing shorelines.




Next Briefing: Sunday, August 22 by 6 PM EDT Method: Email

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