



TROPICAL STORM ELSA BRIEFING

6:30 PM EDT

Thursday, July 8, 2021

What has changed: Flash Flood Watch expanded to include
Suffolk County.

Next Briefing: This will be the final briefing on this event.

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



Situation Overview

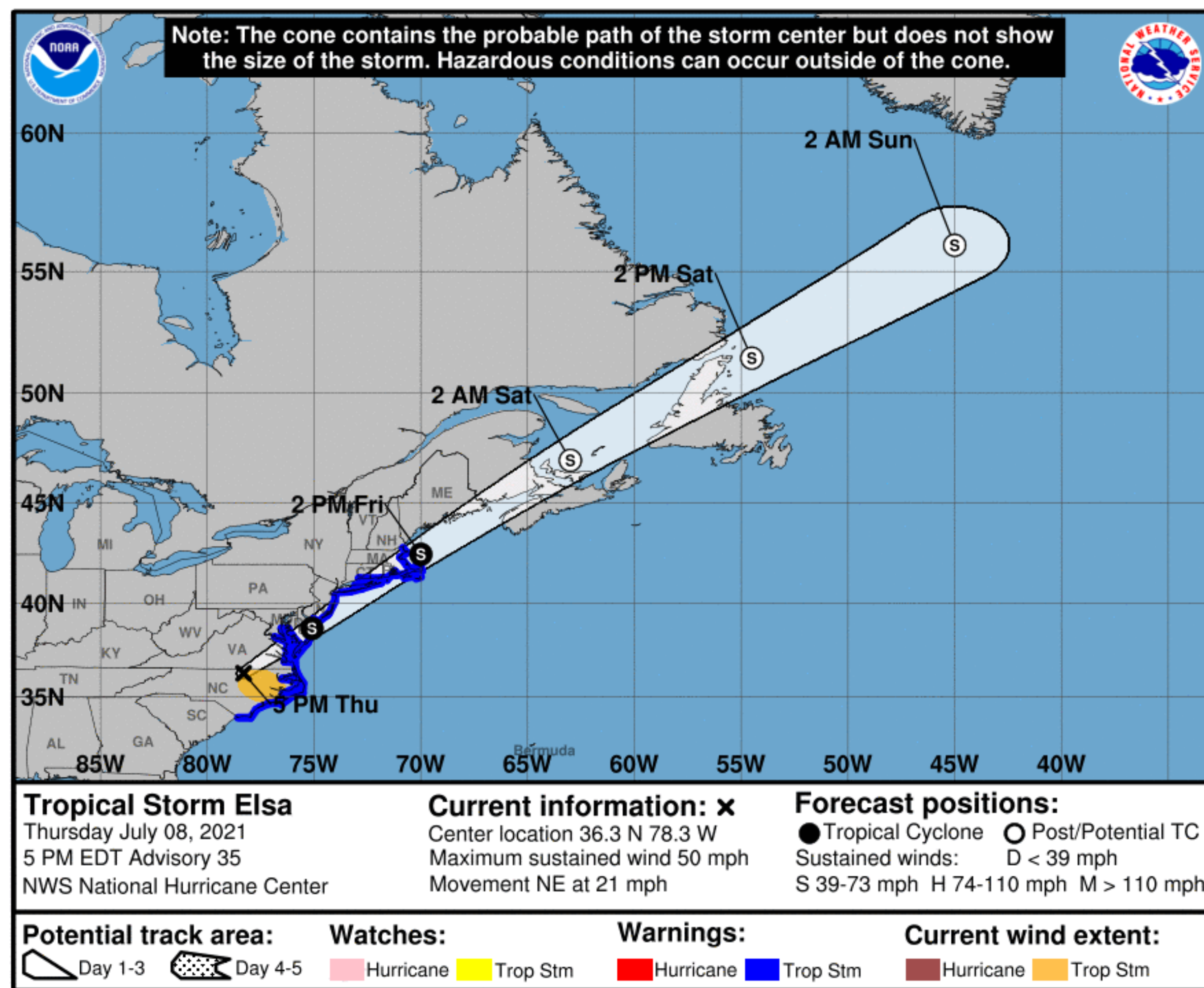
Tropical Storm Elsa

- Tropical Storm Elsa is forecast to accelerate northeast, through the Mid Atlantic States tonight, and then off the New Jersey coast and near or over the Tri-State coast Friday morning.
- Torrential rain, rough marine and surf conditions, and dangerous rip currents are expected into Friday Afternoon.
- A period of weak tropical storm force winds (39+ mph sustained) is possible, mainly across eastern Long Island and extreme SE CT late tonight and Friday morning.



Situation Overview

Tropical Storm Elsa



- The official track of Elsa has it tracking over or very near eastern Long Island Friday morning as a weak Tropical Storm.
- A Tropical Storm Warning continues in effect for most of Long Island and SE CT.

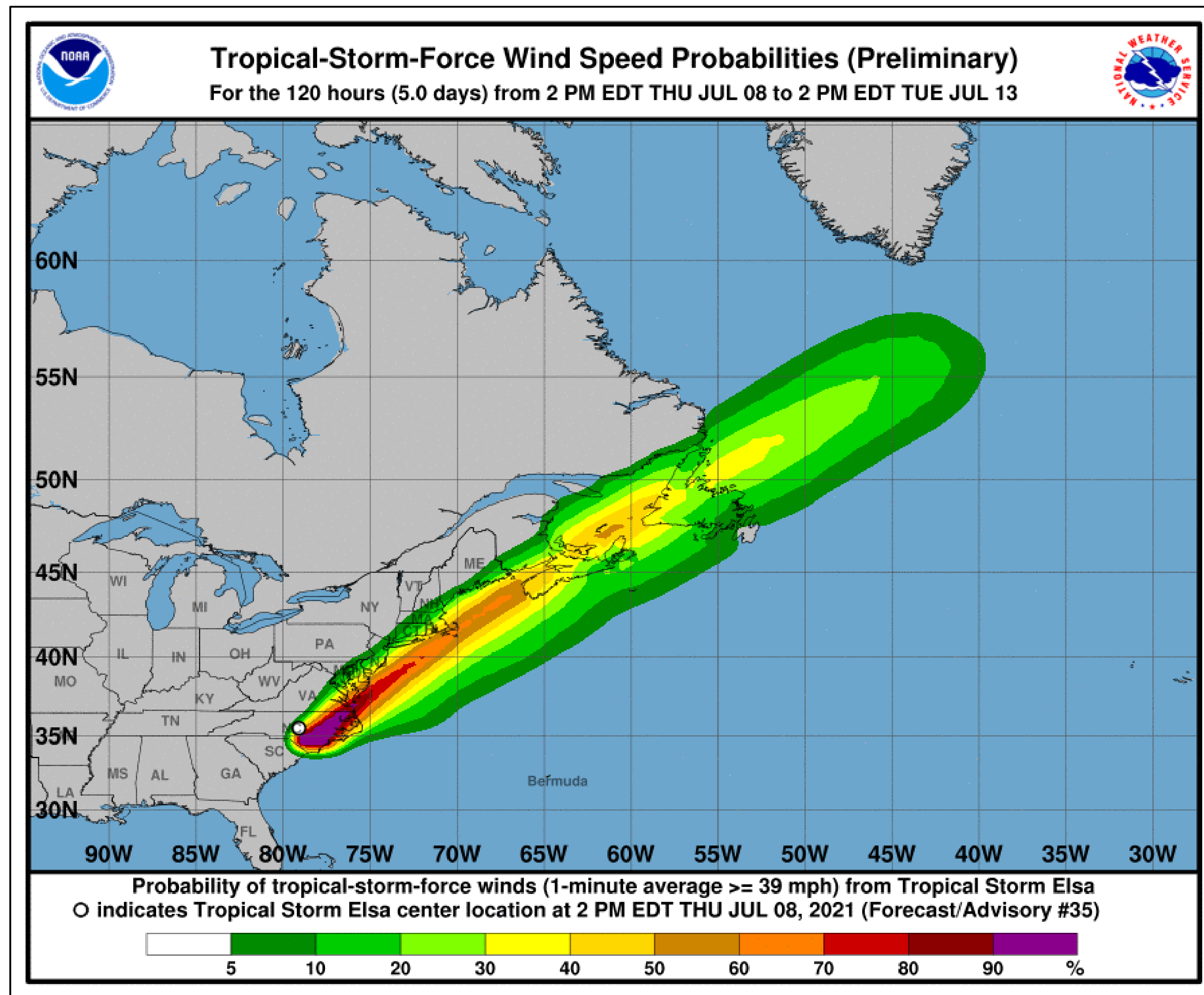
NOTE: Do not focus on the exact track.

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



Tropical Storm Wind Speed Probabilities

Tropical Storm Elsa

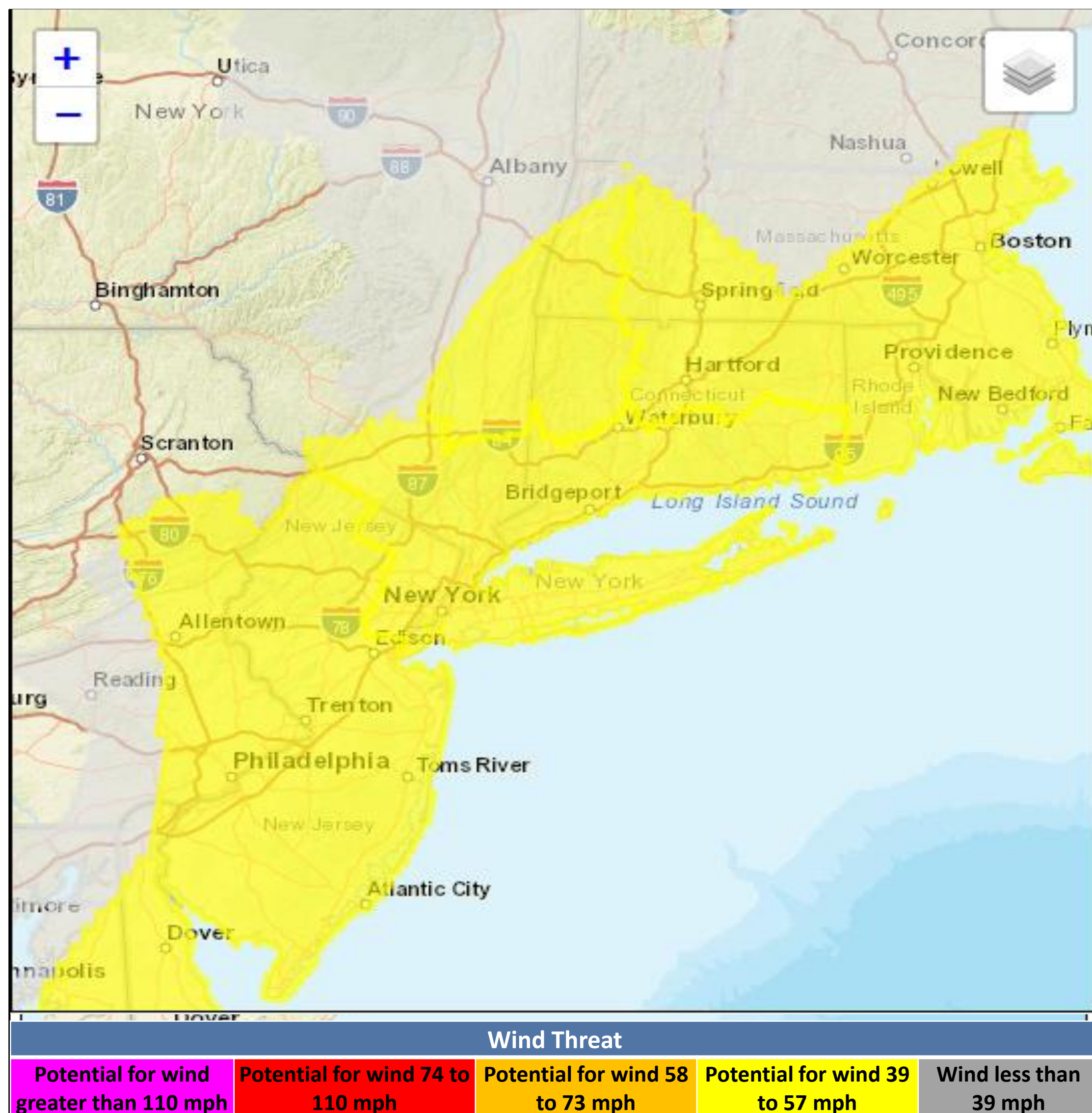


- There is a 1 in 3 chance of sustained weak Tropical Storm force (39+ mph) winds across Eastern Long Island and extreme SE CT late tonight into Friday morning.
 - The probabilities are progressively less to the north and west of this area.

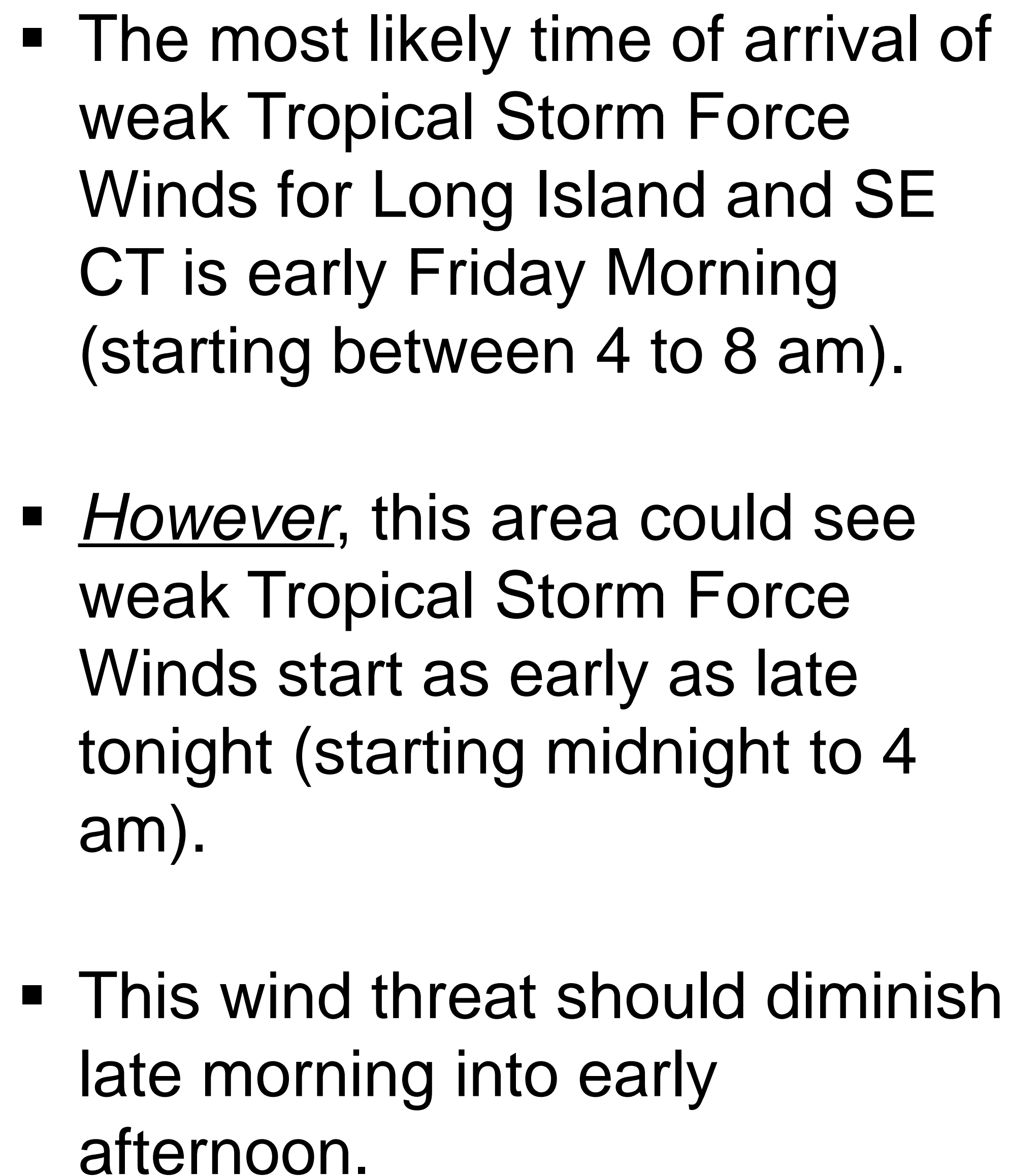


Wind Threat / Potential Impact

Tropical Storm Elsa



- **Long Island and SE CT** - A brief period of south to southeast winds of 35 to 40 mph with gusts to 55 mph are likely for portions of Long Island and SE CT late tonight into Friday morning. Winds will switch to the NW in the wake of Elsa.
 - **Impacts** - Potential for scattered downed trees, large branches and power lines. Power outages possible
- **NYC metro area and western coastal areas** - A brief period of 20 to 30 mph sustained winds with gusts up to 40 mph.





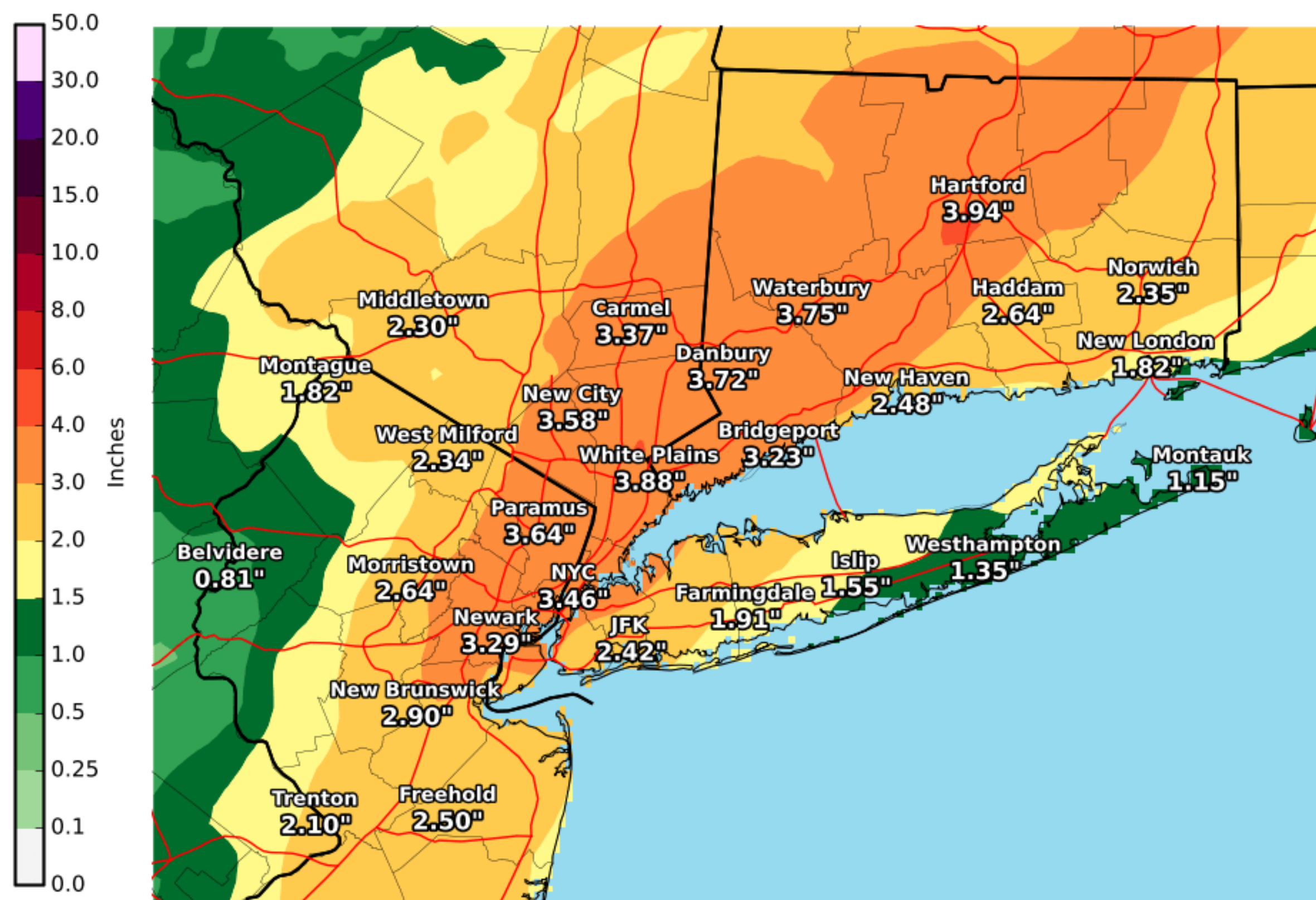
Expected Additional Rainfall w/ Elsa

Tropical Storm Elsa

Note: There will likely be locally higher amounts

Expected Rainfall/Liquid Equivalent - Official NWS Forecast

Valid: 07/08/2021 03:00 PM - 07/12/2021 03:00 AM EDT



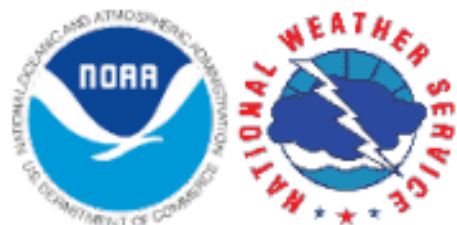
- **Elsa Total Rainfall** – Widespread 2 to 4", with locally higher amounts, expected late tonight through Friday Morning.

- Highest amounts likely for W LI, NYC metro, NE NJ, Lower Hud and SW CT.

- **Rainfall Rates** – 1+"/hr for a few to several hours likely.

- **Timing** - Most of this rainfall will occur during the 2 am to 12 pm Friday timeframe.

Note: The expected rainfall is in addition to what fell today.



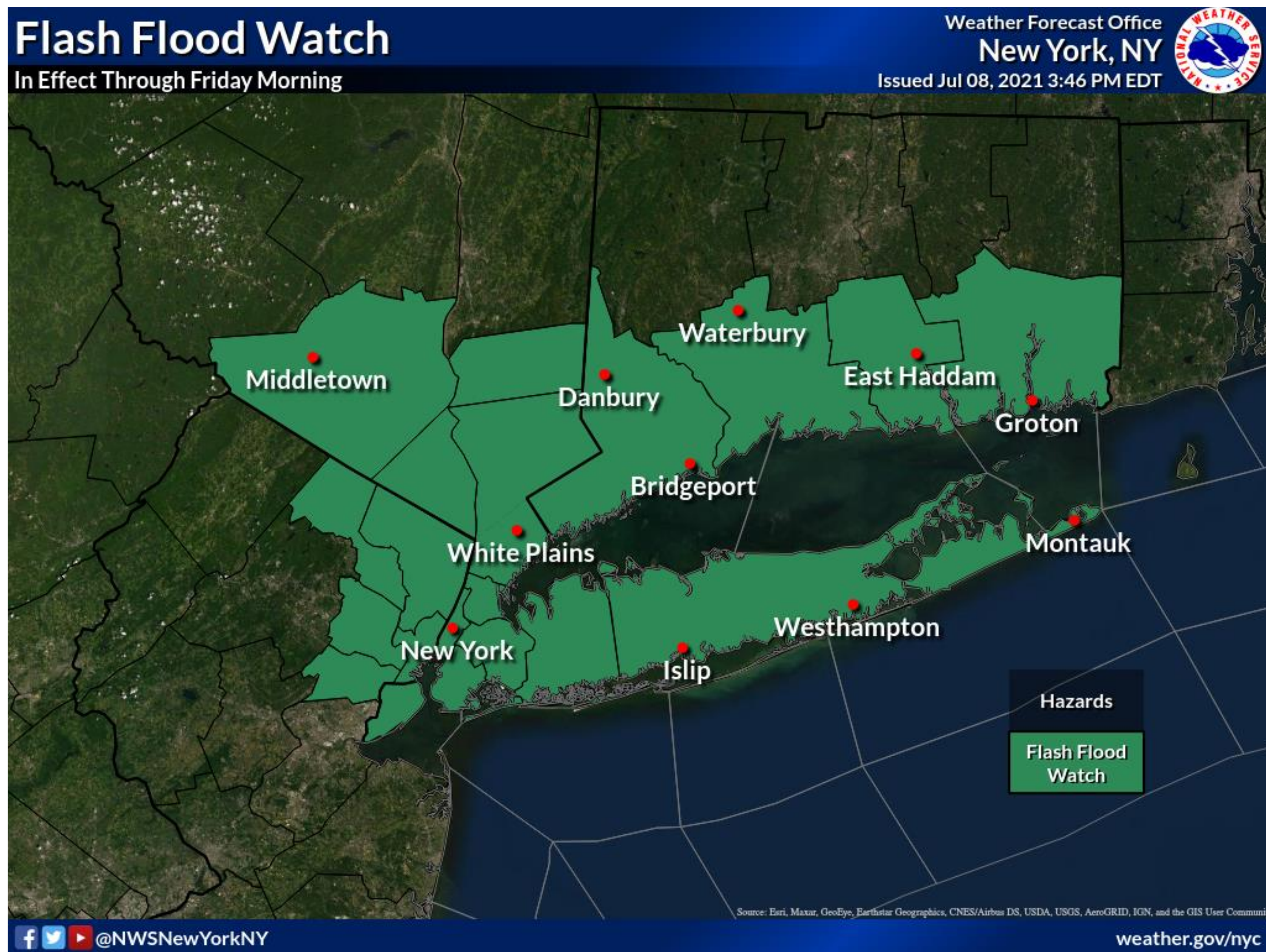
National Weather Service
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07/08/2021 03:00 PM EDT

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Heavy Rain/Flood Impacts

Tropical Storm Elsa

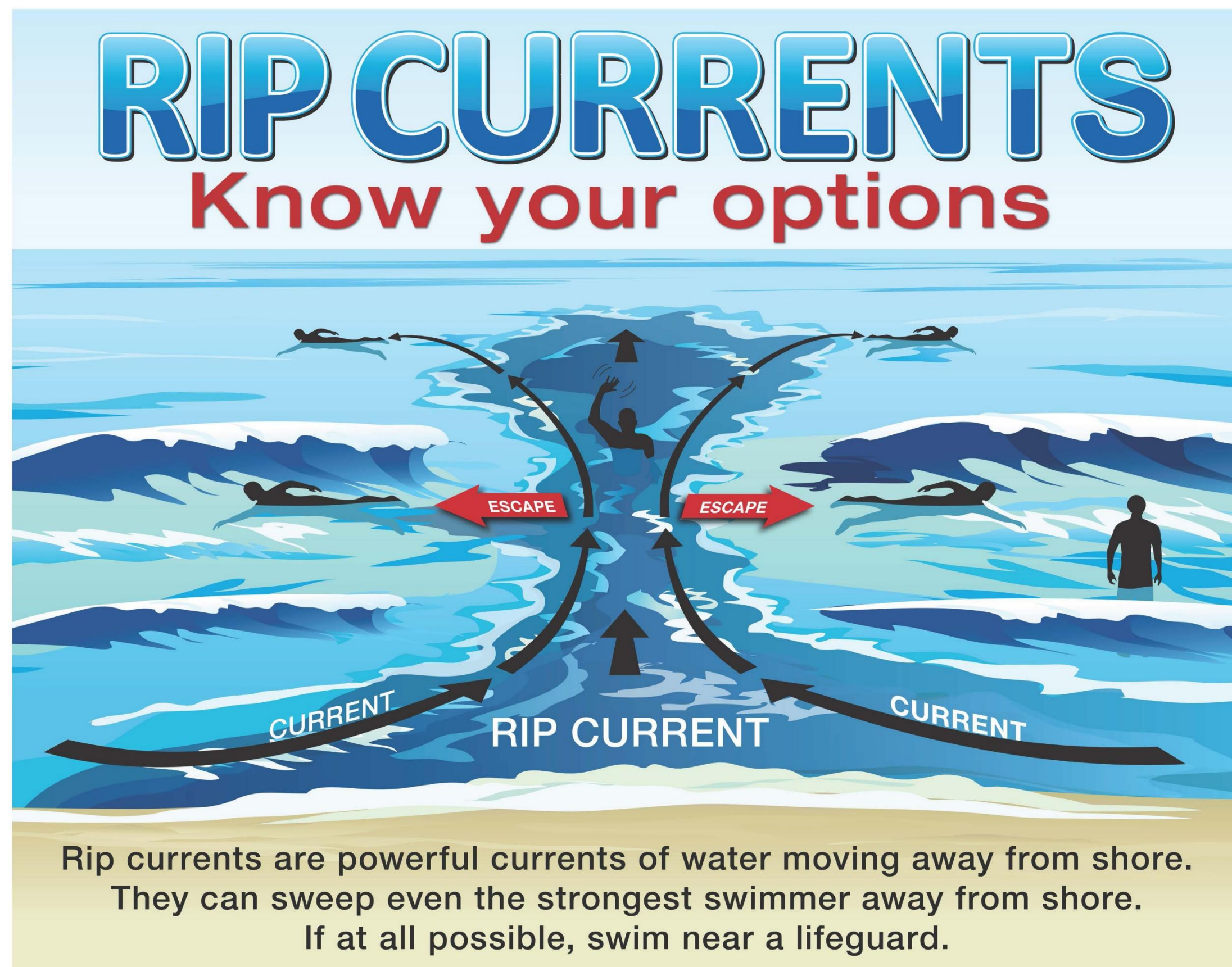


- Locally 2 to 4 inches of rain have fallen across parts of the NYC/NJ metro and surroundings, causing considerable flash flooding in spots. This flash flood threat will end this evening, but the ground is already saturated in many areas.
- Late Tonight thru Friday morning, additional scattered areas of urban and poor drainage flash flooding are likely as heavy rain bands with Elsa move through. This flash flood threat is for the entire area, but flooding could be locally considerable in areas that saw flooding today.
- Rapid rises and potential flooding on a few quick responding smaller rivers and streams is possible as well.



Coastal/Shoreline Impacts

Tropical Storm Elsa



- **Rip Currents** - Dangerous rip currents are expected through Friday.
- **High Surf** - High surf of 7 to 11 ft is likely late tonight into Friday Night along the ocean beachfront.
 - Beach flooding and beach erosion are possible, particularly during the times of high tide Friday morning and Friday Night.
 - Dune impacts are expected to be minimal.
- **Localized Minor Coastal Flooding** - A reasonable worst case scenario would be for localized minor coastal flooding (inundation of less than 1 ft) in typically vulnerable Great South Bay of Long Island, lower NY Harbor, and S Westchester and Southern CT coastal locales.



Marine Impacts

Tropical Storm Elsa

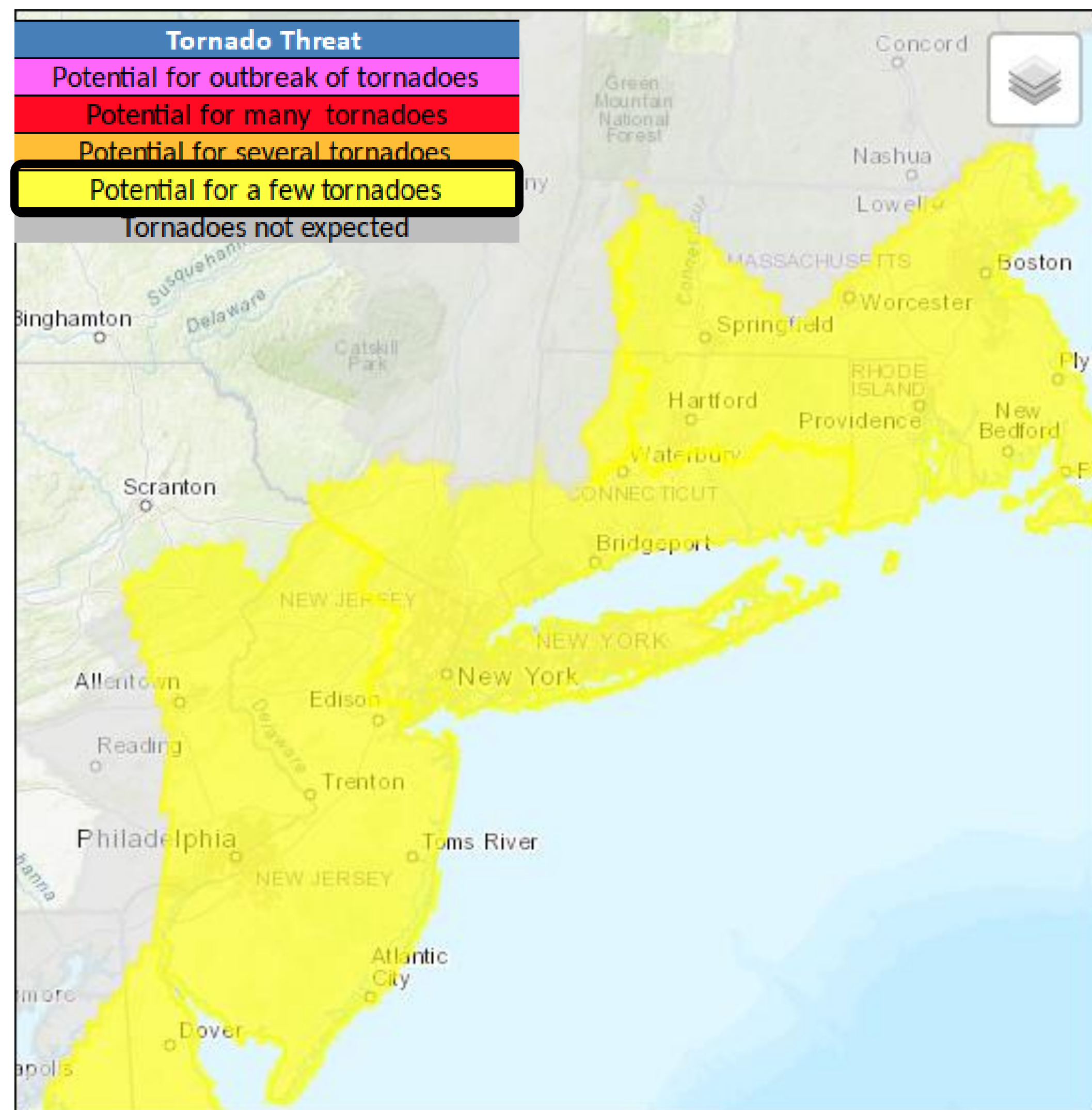


- **Winds** - Weak tropical storm force winds (25 to 35 kt gusts to 45 kt) are likely late tonight into early Friday afternoon, particularly for the ocean waters, eastern bays, and eastern Long Island Sound.
- **Seas** – Seas will likely build to 8 to 12 ft on the ocean waters, highest east of Moriches Inlet, Friday morning, before subsiding Friday Night.



Severe Thunderstorm/Tornado Potential

Tropical Storm Elsa



- **This Evening-** There is potential for isolated severe thunderstorms through around 9pm. Damaging winds gusts, large hail, and isolated tornado are possible.
- **Tonight into Friday AM-** With Elsa, an isolated tornado or water spout is possible to the east of its track early Friday morning into afternoon.
 - At this point this low risk would be mainly for Long Island, SE CT, and surrounding waters.
- **Friday PM** - Finally, there is potential for a few strong to severe thunderstorms Friday evening after Elsa departs, as a cold front comes through.



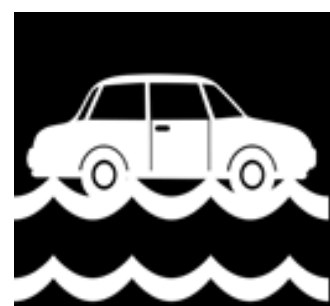
Key Take-Aways

Tropical Storm Elsa

Confidence is high that the event will occur
Confidence is moderate regarding impacts



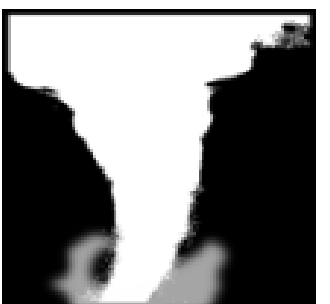
Weak sustained tropical storm force winds possible, mainly across Long Island and SE CT late tonight into Friday afternoon. Tropical storm force gusts are likely across most coastal areas.



High surf with beach flooding and erosion likely for ocean beachfront on Friday. Localized minor coastal flooding possible for vulnerable coastal areas.



Additional scattered areas of flash flooding likely late Tonight into Friday morning.



Isolated weak tornadoes possible this eve with a warm front, and then late tonight into Friday morning with Elsa. Isolated severe tstms possible Friday evening with a cold front passage.





Rough marine conditions expected across the coastal waters tonight through Friday.




Next Briefing:

This will be the last briefing for the event

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