



Disclaimer: The information contained within is time-sensitive.

Hurricane Helene Briefing

6:00 AM

Thursday September 26, 2024

Tropical Storm Warnings continue
for the ENTIRE area, including Atlantic Waters
and Charleston Harbor





Situation Overview

September 26, 2024
5:32 AM

- High confidence in storm track, leading to moderate to high confidence in local impacts
- Impacts from scattered tornadoes may become one of the highest impacts in our area from Helene
- Helene still expected to be a LARGE SYSTEM, with IMPACTS reaching WELL OUTSIDE/EAST of the Track Cone of uncertainty, which covers our region!
- Potential Impacts Include: tornadoes, tropical storm force wind/wind gusts, periods of heavy rainfall, elevated tides/storm surge inundation, dangerous marine conditions, high surf and high rip current risk

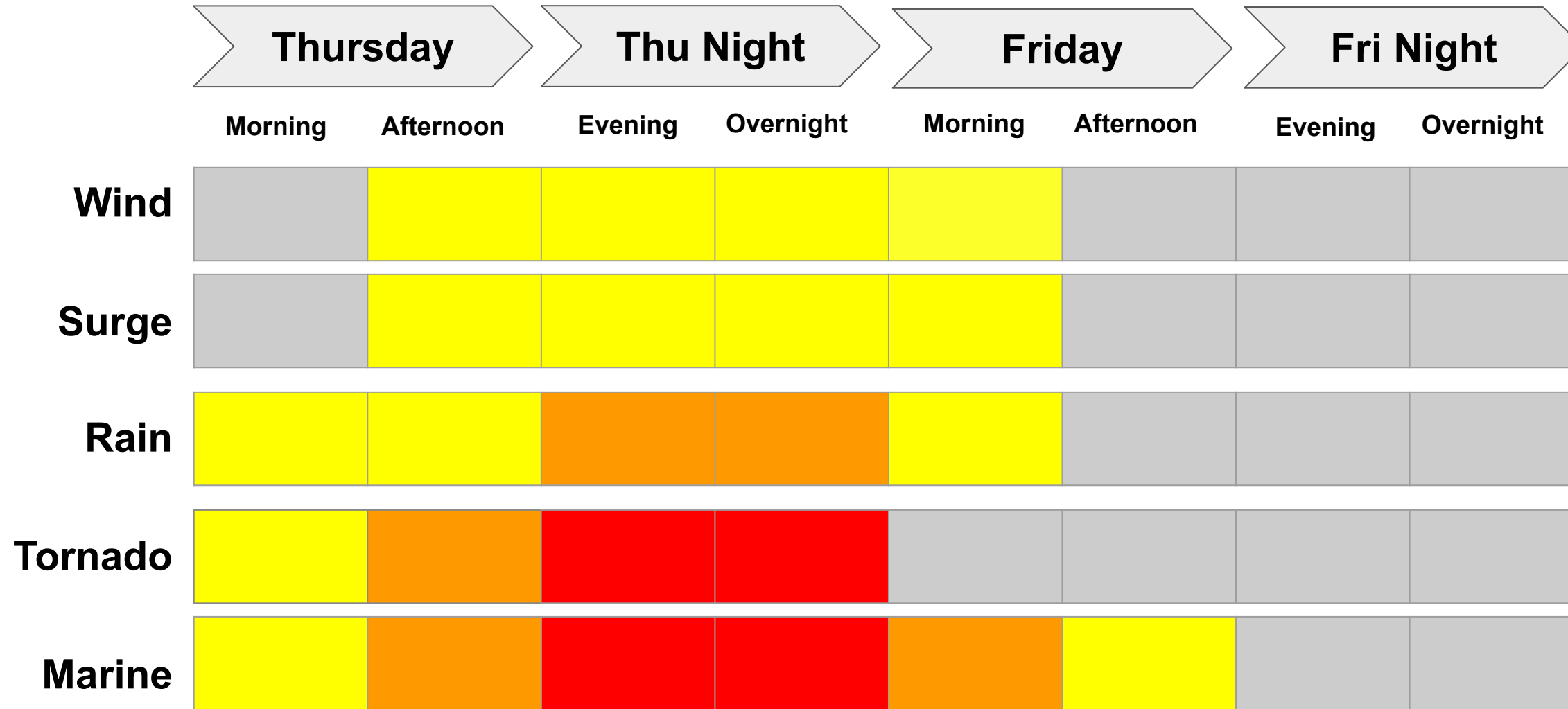




Threat Levels - *Max Values for the Storm*

September 26, 2024
5:32 AM

Changes: No Significant changes








Effects and Impacts Legend

- Little to No Impact
- Minor Impact
- Moderate Impact
- High Impact
- Extreme Impact



Situation Overview

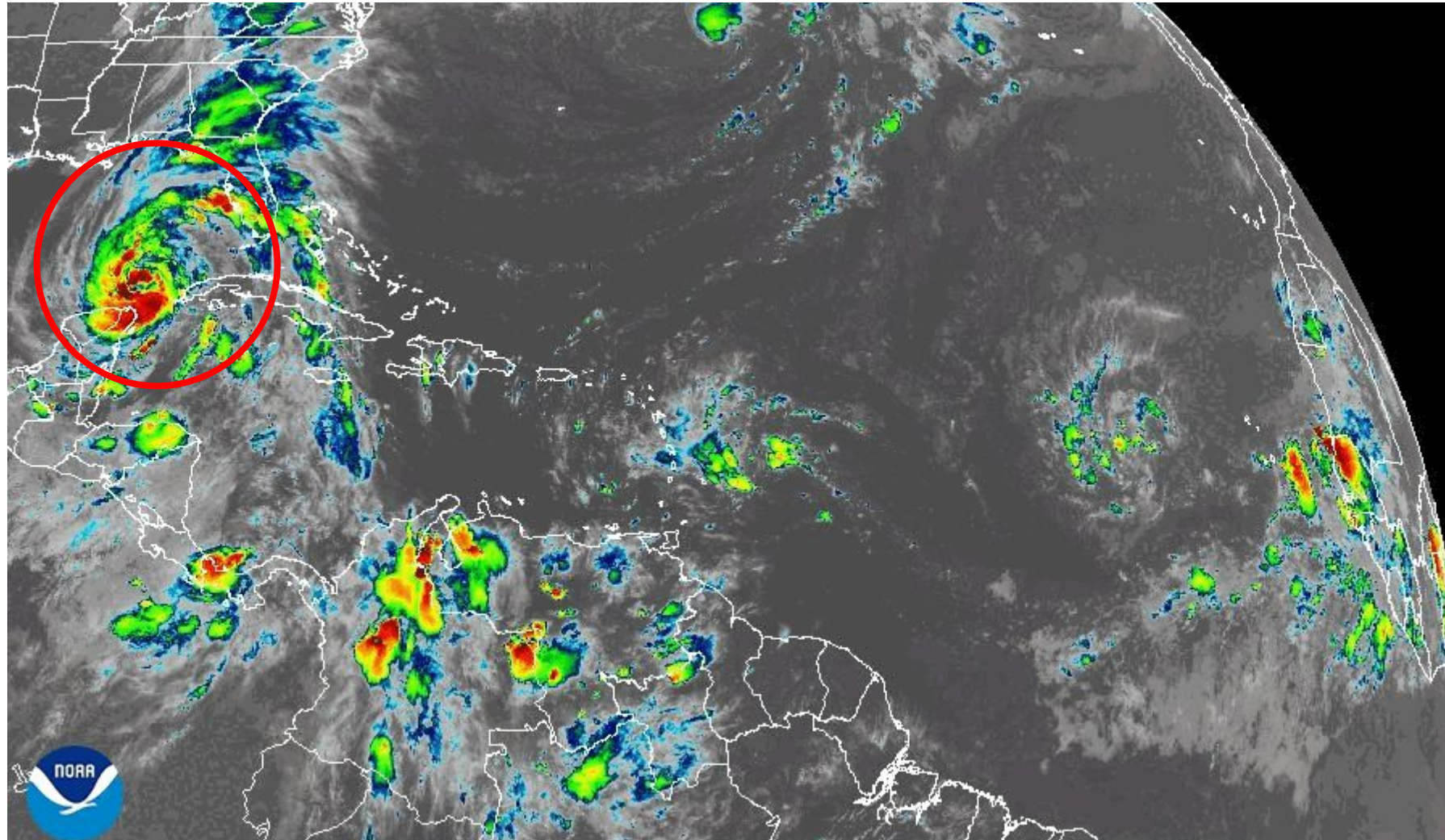
September 26, 2024
5:32 AM

Hazard	Impacts	Location	Timing
 <p>Wind</p>	<p>Potential for TS Wind/Wind Gusts. Downed and/or uprooted trees, Isolated to scattered power outages, some roads impassable due to debris</p>	<p>Highest Threat for TS force wind/wind gusts roughly along and south of a line from Allendale, SC to Beaufort, SC</p>	<p>This afternoon into tonight</p>
 <p>Storm Surge & Inundation</p>	<p>Storm Surge Inundation 1-3 feet above normally dry ground in/around tidal region. Localized saltwater flooding immediate shoreline, minor to moderate beach erosion</p>	<p>Entire coastline</p>	<p>This afternoon into tonight</p>
 <p>Flooding Rain</p>	<p>Flooding of some roads/streets, especially in low lying, poorly drained areas, some storm drains and retention ponds may become full/overflow</p>	<p>Entire region, especially west of I-95 in southeast SC and southeast GA</p>	<p>Today into tonight</p>
 <p>Tornado</p>	<p>Scattered to possibly numerous may produced localized areas of enhanced tree and/or structural damage</p>	<p>Entire region of southeast SC and southeast GA and Atlantic waters</p>	<p>Today into tonight. Tornado threat will move from south to north through the period.</p>
 <p>Marine</p>	<p>Dangerous seas and tropical storm force winds/wind gusts will result in life-threatening conditions, especially for smaller crafts</p>	<p>Entire marine area from the Altamaha River, GA to the South Santee River, SC. Tropical Storm force wind gusts also possible within Charleston Harbor</p>	<p>Today through Friday morning</p>



Current Satellite View

September 26, 2024
5:32 AM



26 Sep 2024 01:00Z - NOAA/NESDIS/STAR - GOES-East - Band 13

- Hurricane Helene is expected to rapidly intensify as it moves over the eastern Gulf of Mexico
- Helene forecast to become a Major Hurricane by this afternoon



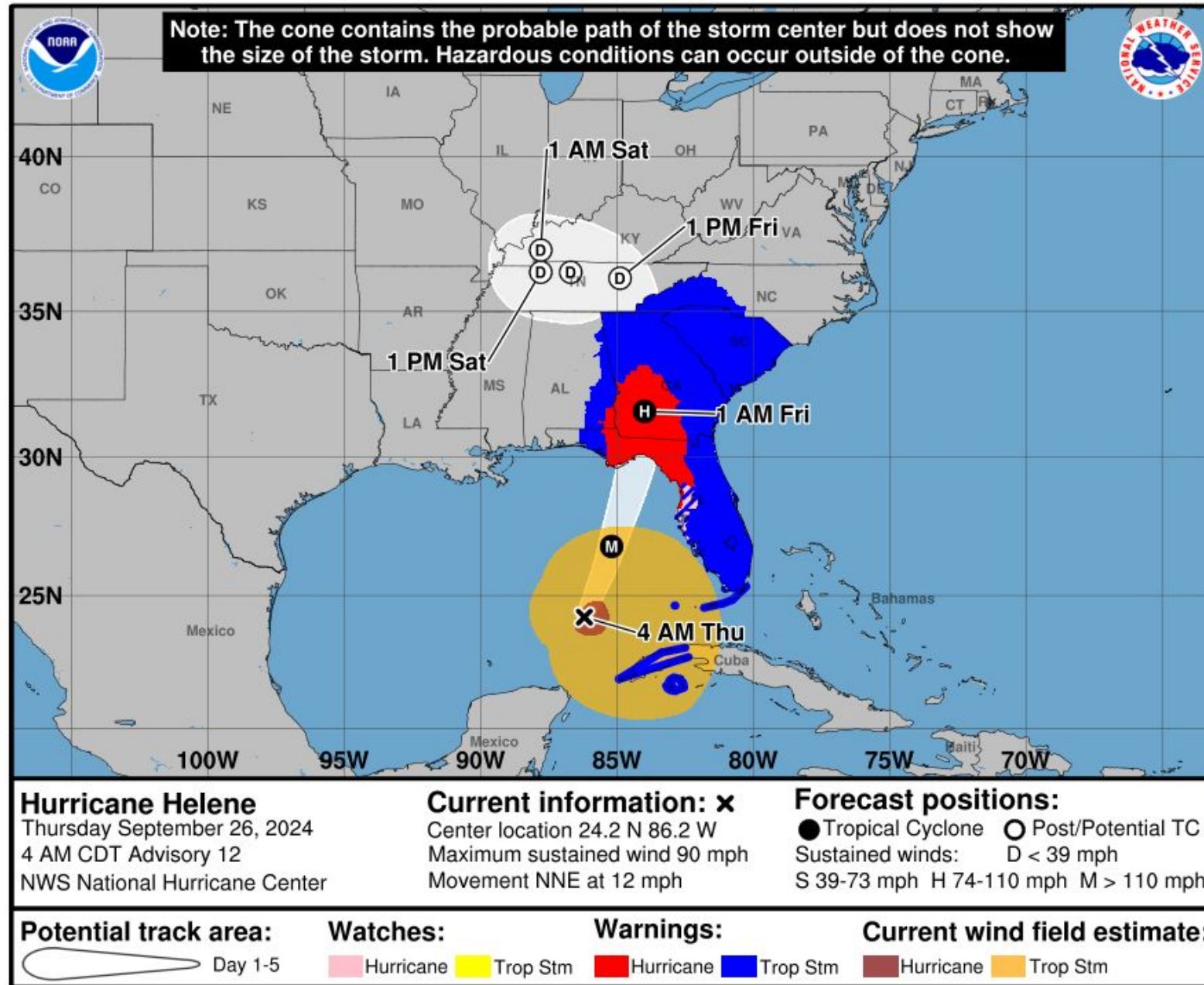
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Charleston, SC



Situation Overview

September 26, 2024
5:32 AM



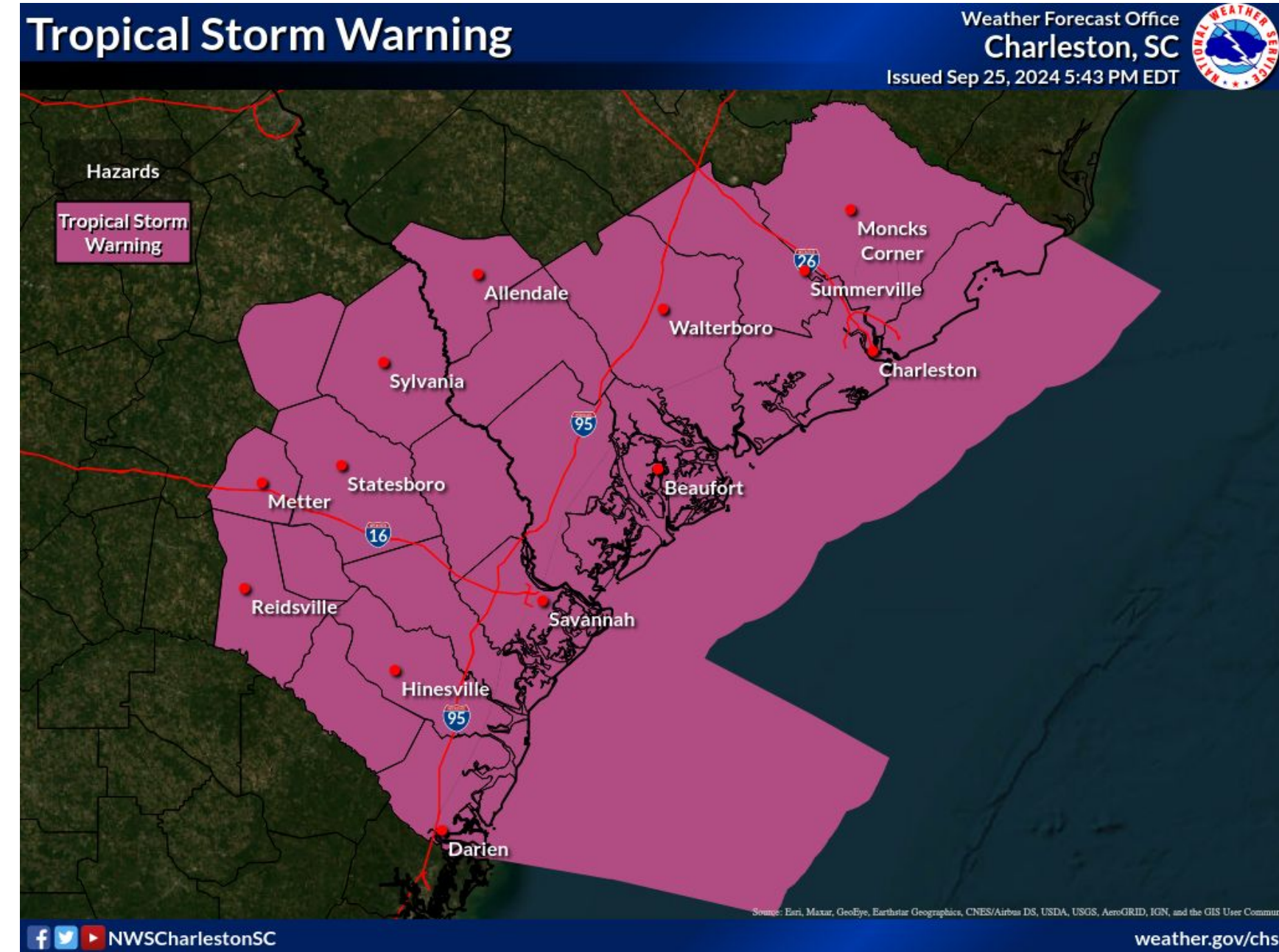
- Track Trend: Little/no changes to track timing and impacts to our area
- Rapid Intensification Expected: Helene forecast to strengthen to a Major Hurricane later today before making landfall along the Florida Big Bend area this evening
- Motion: Helene expected to begin accelerating northward across the eastern Gulf of Mexico later today
- **NOTE:** Accelerating storm after landfall → May allow stronger winds to move further inland into southern and southeast GA





Tropical Storm Watch/Warning

September 26, 2024
5:32 AM



- **Tropical Storm Warnings** continue for ENTIRE region and all Atlantic waters, including the Charleston Harbor



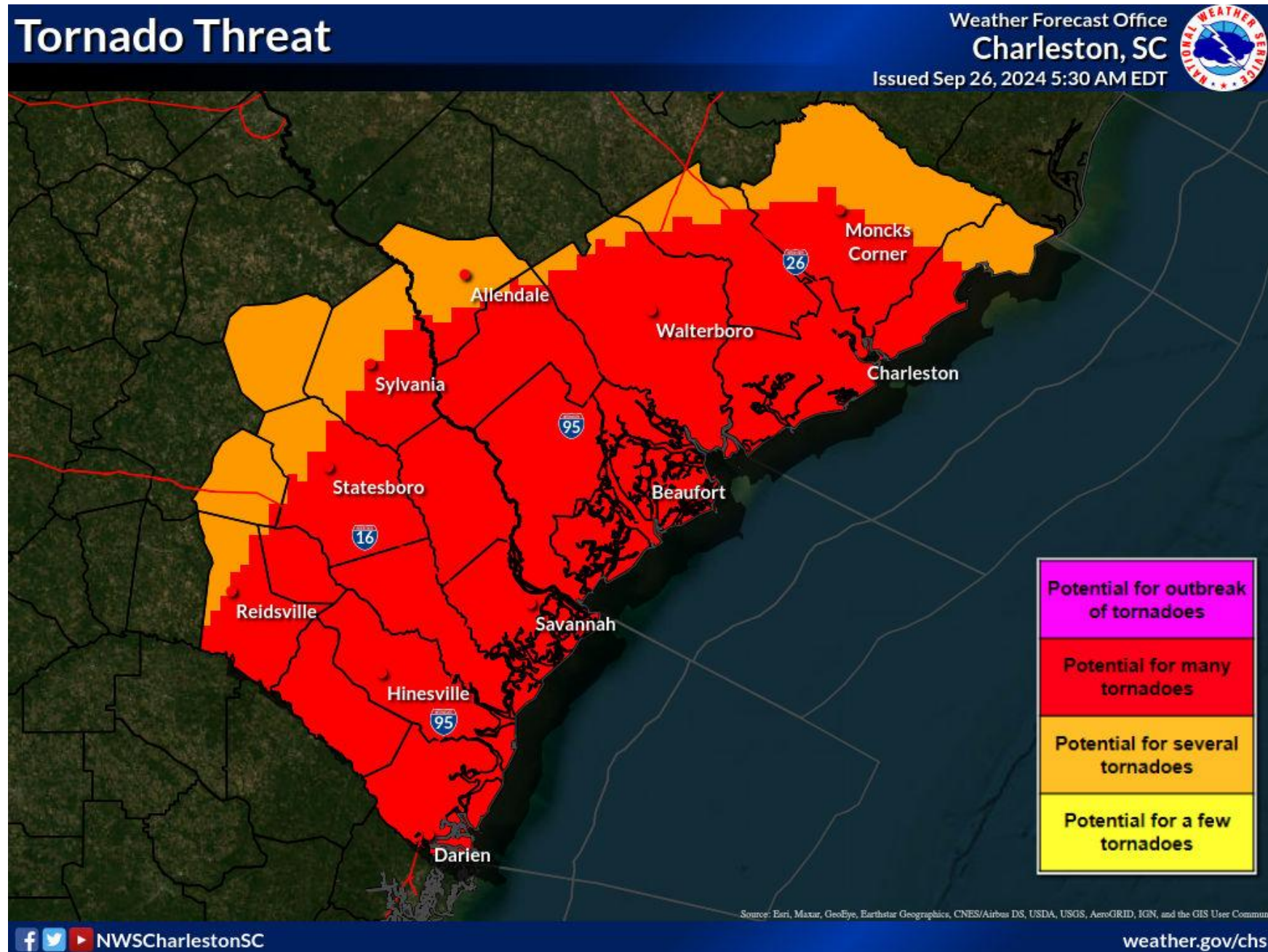
National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Charleston, SC



Potential Tornado Impacts

September 26, 2024
5:32 AM



- Conditions will be favorable for scattered to possibly numerous tornadoes
- **Timing:** Today into tonight
- **Impacts:** Nighttime tornadoes can be particularly dangerous. Enhanced tree damage and possible structural damage.
- Highest threat for tornadoes within stronger rainbands



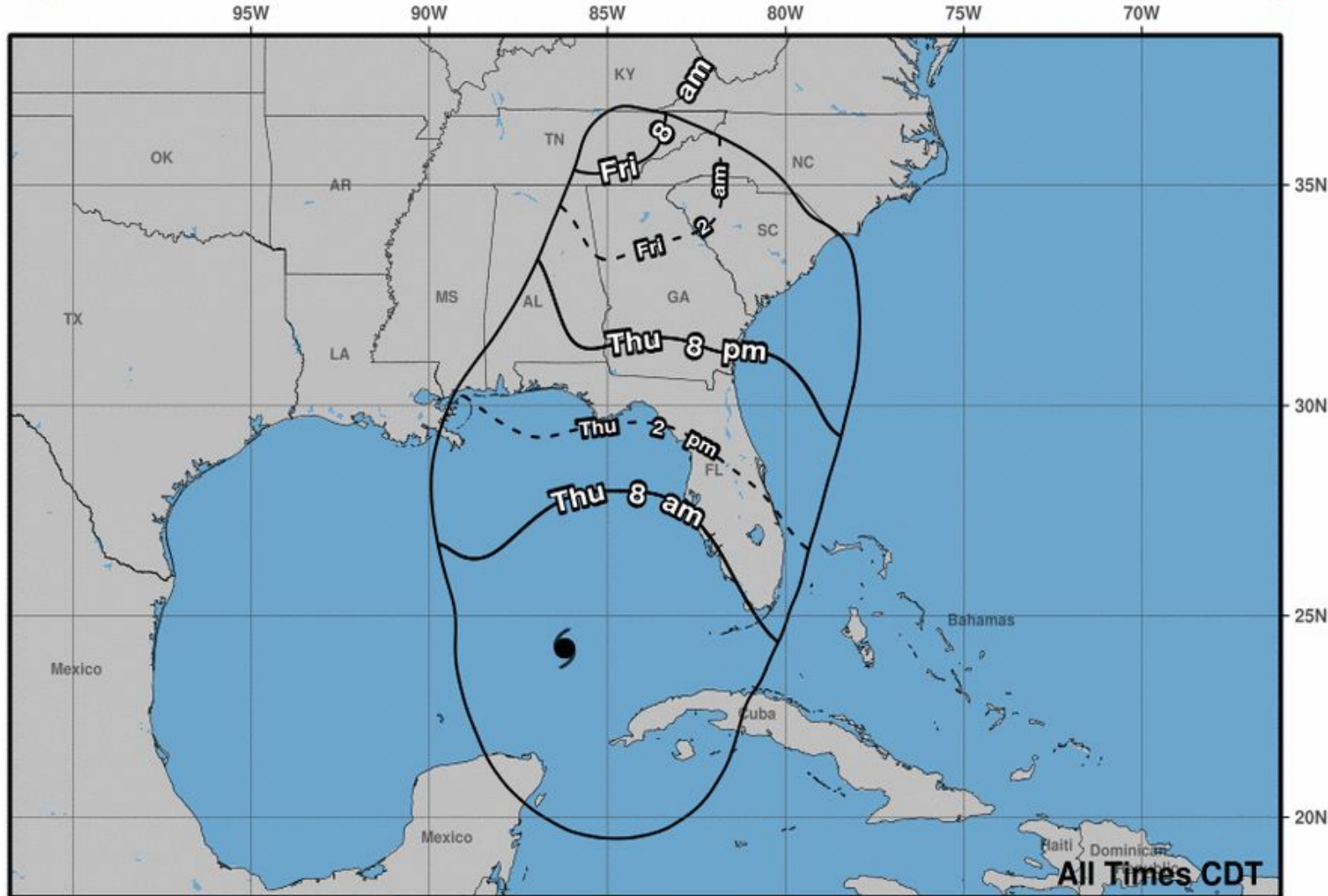


Most Likely Time of Arrival

September 26, 2024
5:32 AM



Most Likely Arrival Time of Tropical-Storm-Force Winds



Hurricane Helene
Thu. Sep. 26, 2024 4 am CDT
Advisory 12

Storm Location < 34 kt (39 mph)
& 34-63 kt (39-73 mph)
Wind Speed ≥ 64 kt (74 mph)

NOTE: Areas within the outermost black contour have at least a 5% chance of receiving winds of 34+ kt (39+ mph)

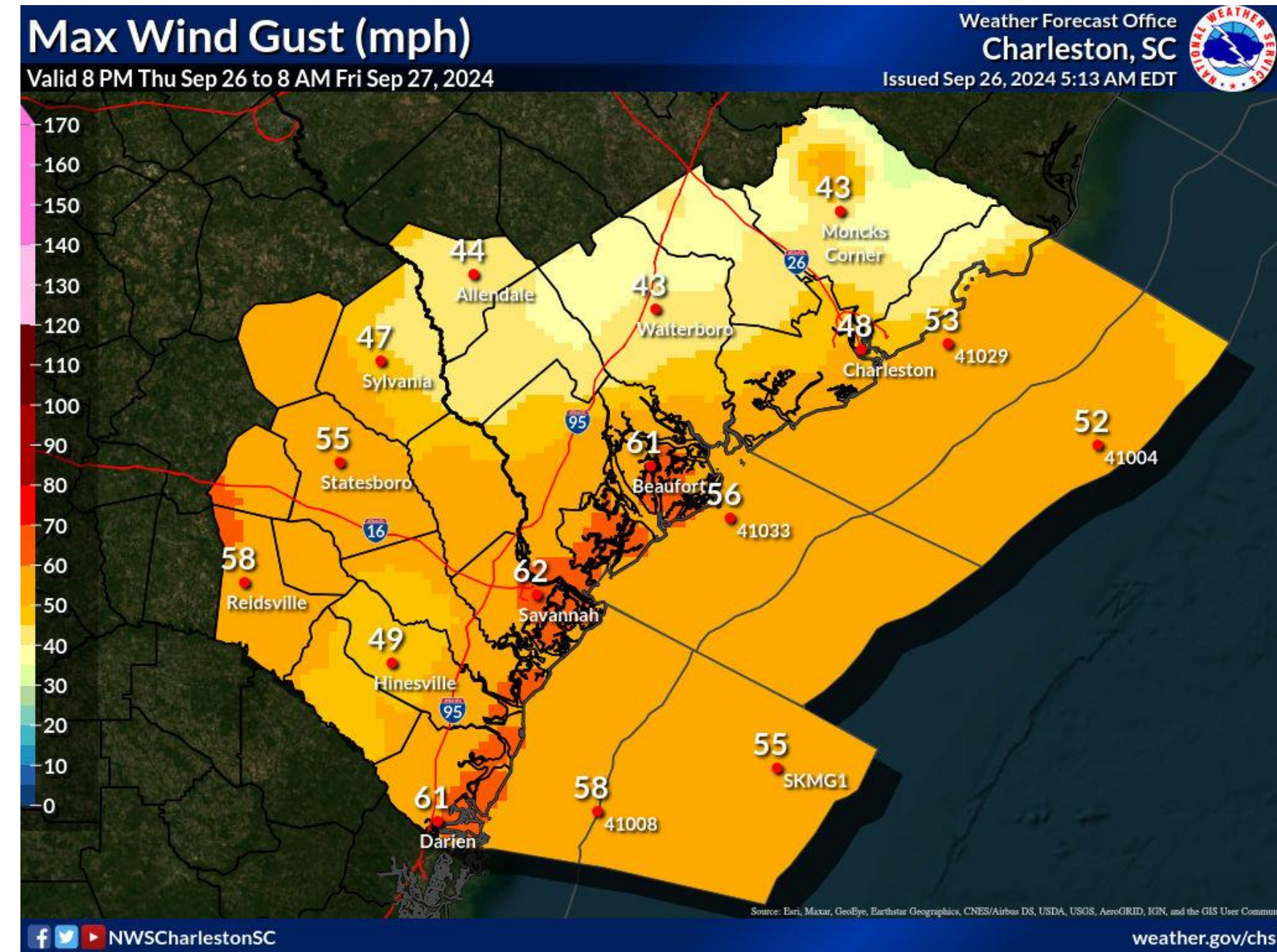
- Trend: Little change from previous NHC Advisory
- Most Likely time for Tropical Storm Force Wind/Wind Gusts:
 - Southeast GA - This evening
 - Southeast SC - Tonight





Wind Threat / Potential Impacts

September 26, 2024
5:32 AM



Expected Wind Gusts:

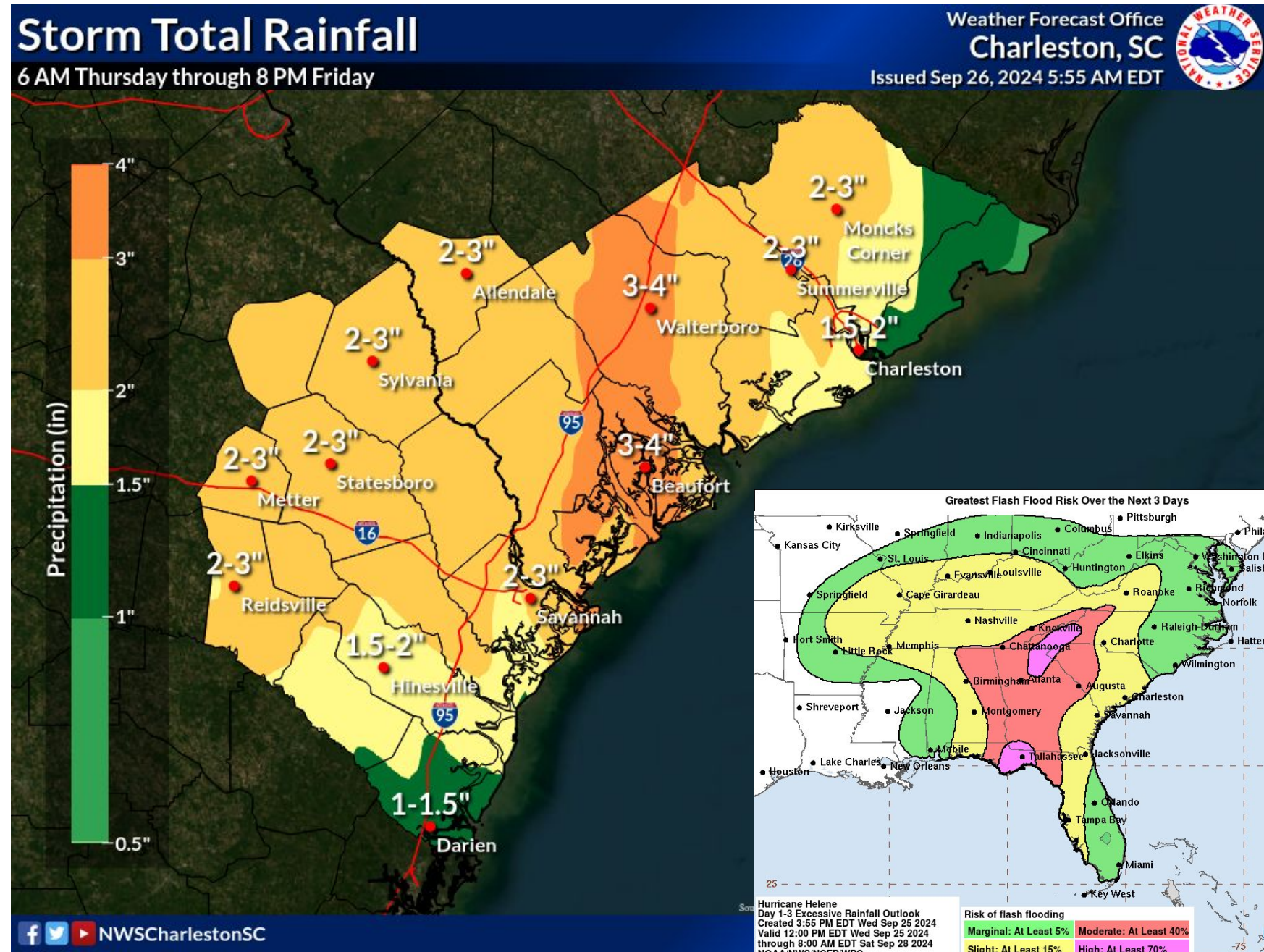
- Tropical Storm Force wind/wind gust across much of the area
- **Timing:** Mainly this afternoon through early Friday morning
- **Impacts:** Isolated to scattered power outages, downed and uprooted trees, hazardous for high profile vehicles on bridges/overpasses
- Winds expected to decrease rapidly from south to north Friday morning





Expected Storm Total Rainfall

September 26, 2024
5:32 AM



Rainfall through Friday Morning

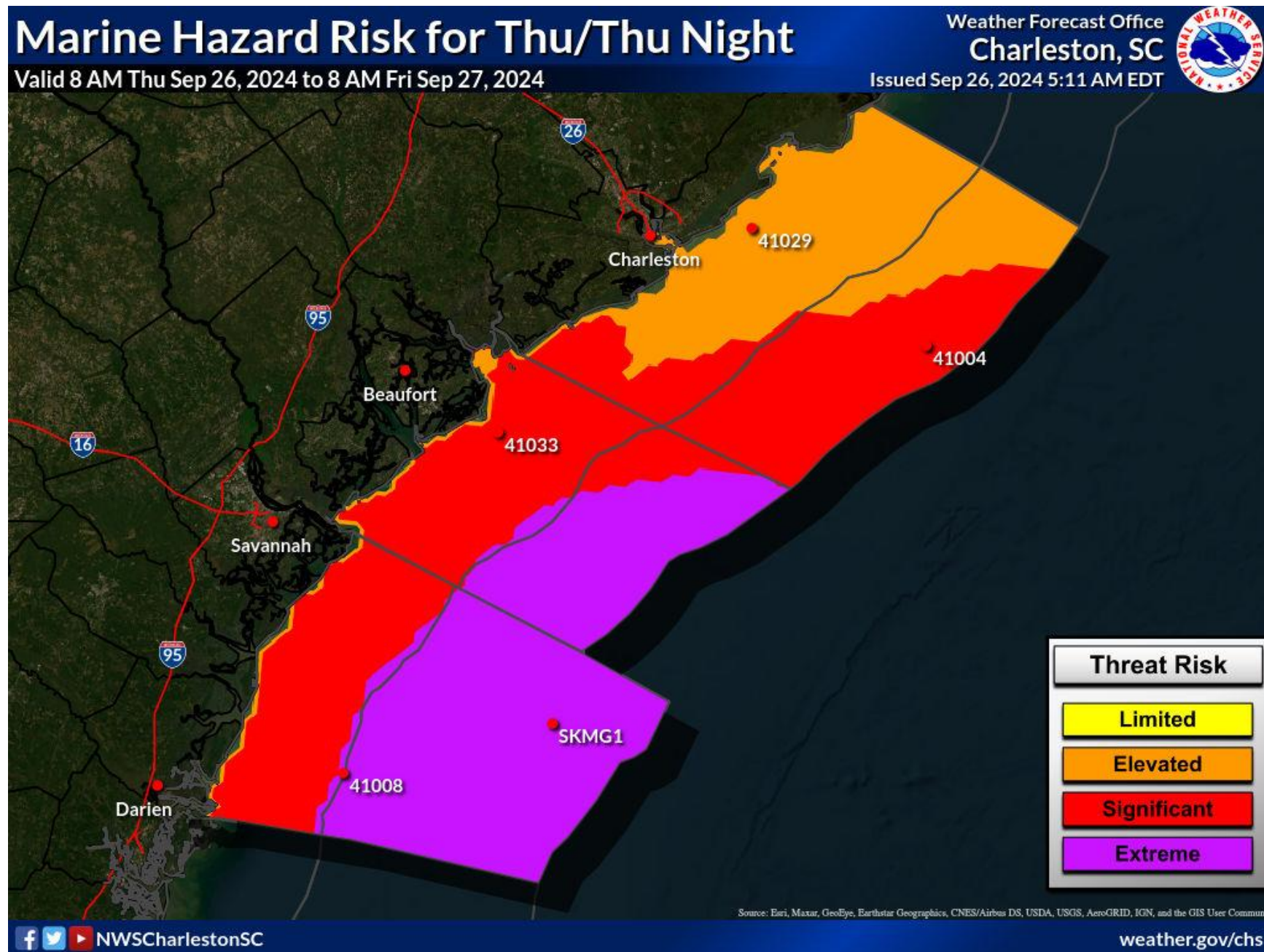
- Heavy rainfall could coincide with the afternoon commute, bringing extensive impacts despite total rainfall amounts of no more than a few inches
- The heavy rainfall threat will continue into tonight
- The risk for flooding may increase along the coast, if heavy rainfall coincides with high tide





Potential Marine Impacts

September 26, 2024
5:32 AM



Potential For:

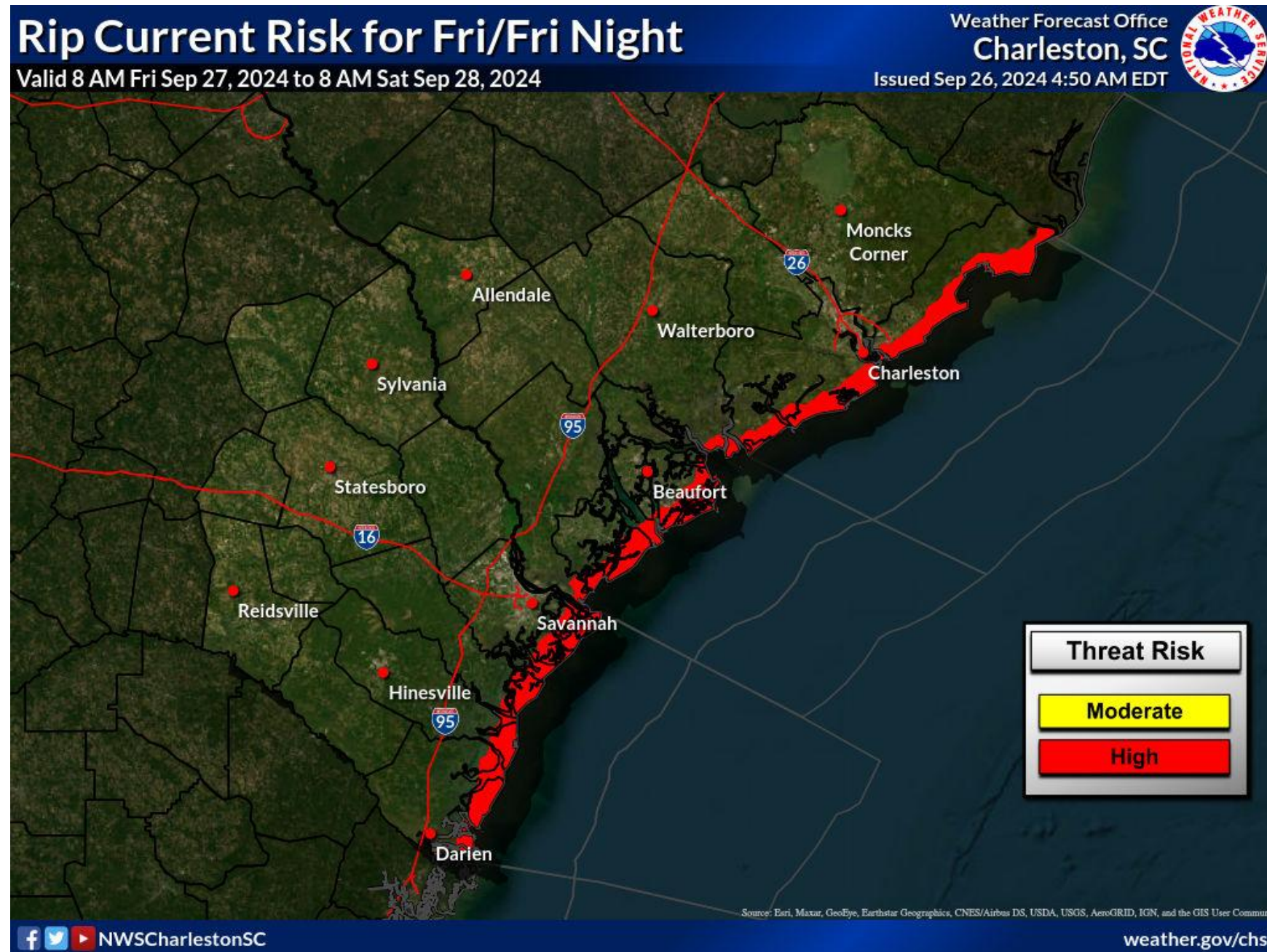
- **Dangerous Seas/Waves:**
 - Seas building to 8-15 feet out 20 nm and 12-17 feet from 20-40 nm, highest this afternoon and tonight, especially over the GA waters
- **Tropical Storm Force Wind/Wind Gusts:**
 - Wind/Wind gusts of 40-50 knots possible today into Friday morning, especially GA waters
 - Strongest winds/wind gusts likely within heavy rainbands
 - Waterspouts possible in rainbands
- *Note: This graphic shows a higher (Extreme) risk level than the Threat Level Graphic on Slide 3, since this is based on wave height.*





Potential Beach Impacts

September 26, 2024
5:32 AM



Beach Hazards Potential:

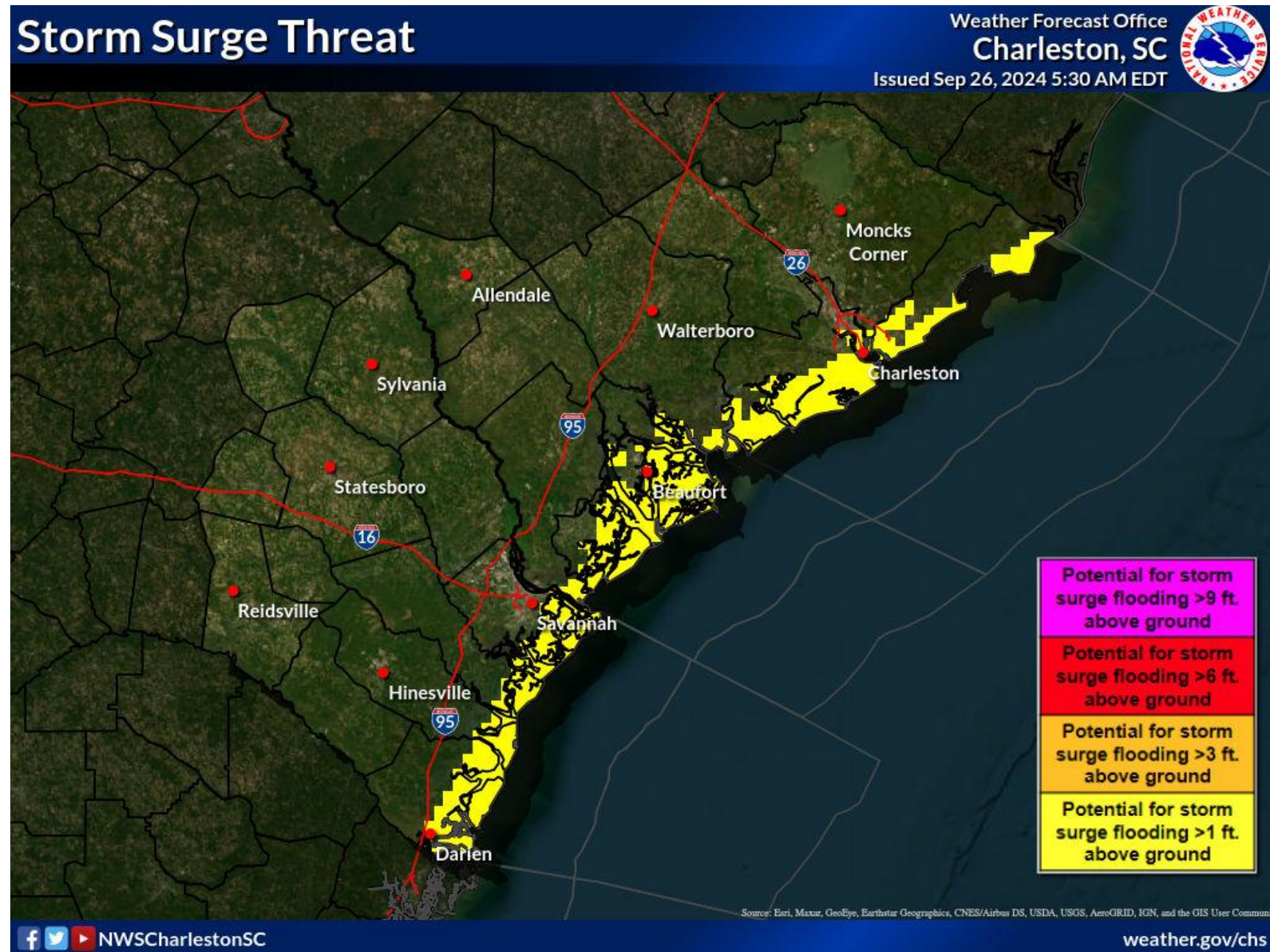
- **High Risk for Deadly Rip Currents** especially today and Friday
- **High Surf and Significant Beach Erosion**
 - **High Surf Advisory** in effect
 - **Timing:** Today through Friday





Potential Storm Surge Impacts

September 26, 2024
5:32 AM



There is a potential for:

- **Increasing Tide Levels**
 - Storm Surge Inundation of 1-3 feet above normally dry ground in/around tidal region
- **Impacts:** Minor flooding of some streets/roads near the coast, and in low lying areas
- **Timing:** This afternoon through tonight, especially during high tide cycles

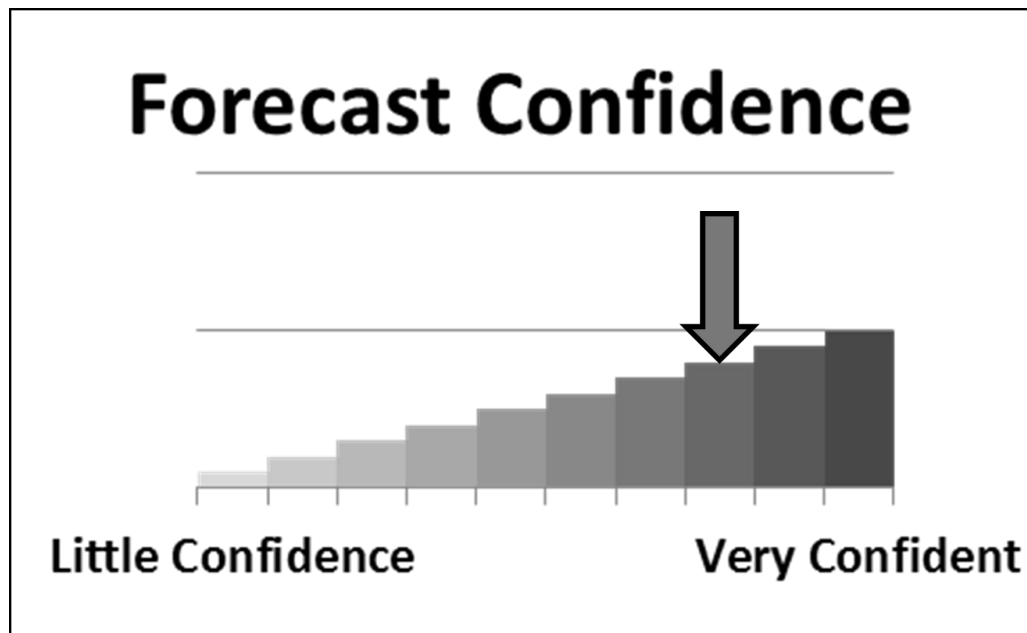




Key Take-Aways

September 26, 2024
5:32 AM

- Increased confidence in track forecast leading to increased confidence in level of impacts.
- This is expected to be a large storm, with impacts reaching well beyond/east of the track cone of uncertainty.
- Focus attention on expected impacts, NOT the centerline of the forecast track.



Overall Storm Formation and Track: High Confidence

Local Level and Timing of Impacts: Moderate to High





Next Briefing:

Thursday Sep 26, 12:00 PM

Method: Webinar

