



Disclaimer: The information contained within is time-sensitive.

Hurricane Milton Briefing

6:00 PM

Monday, October 7, 2024

**** Milton a powerful Category 5 Hurricane ****

**** Storm Surge Inundation Likely Highest Impact to our Area ****





Situation Overview

October 7, 2024
6:00 PM

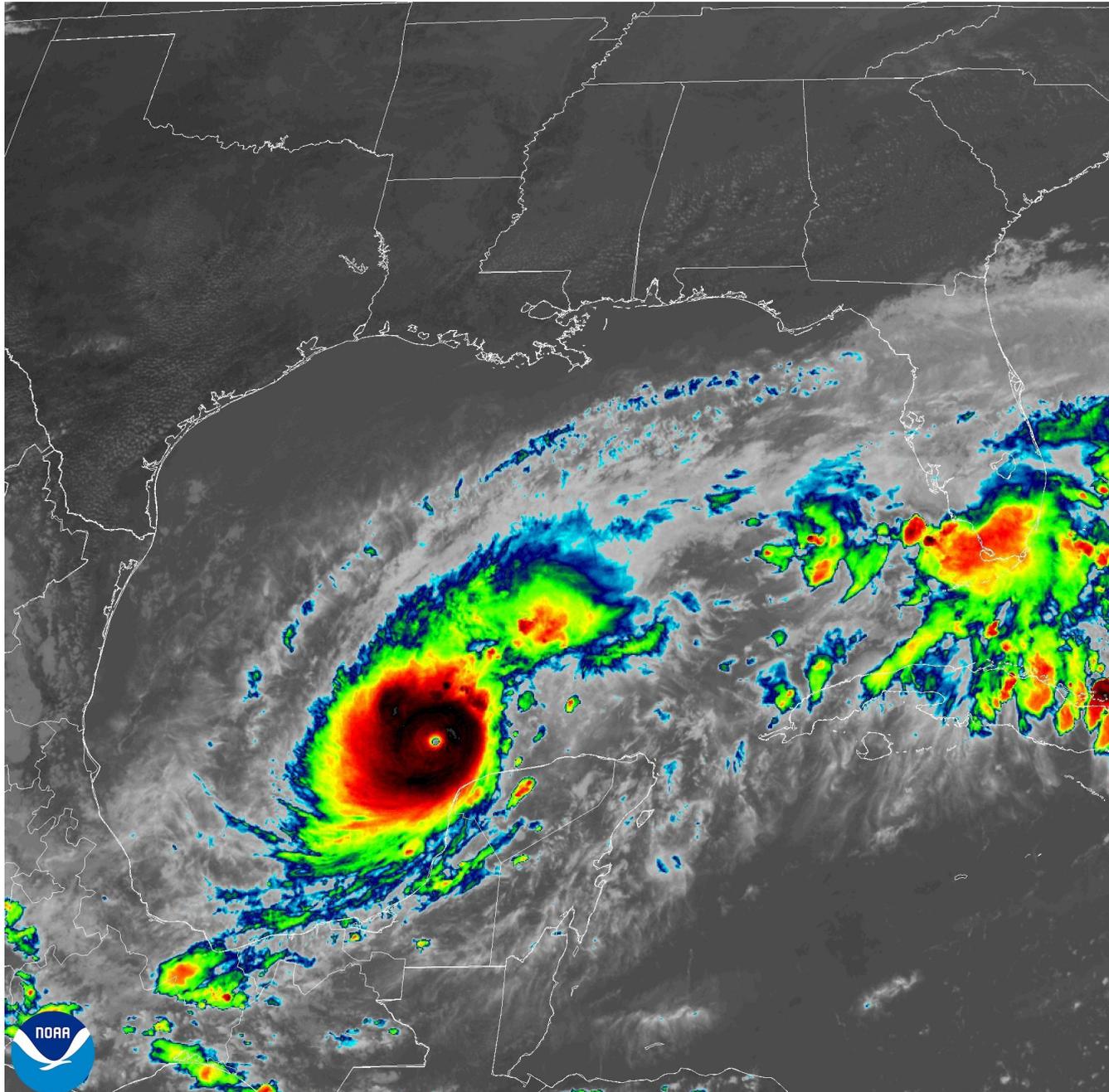
- Milton rapidly intensified to a strong dangerous Category 5 Hurricane over the southern Gulf of Mexico
- Impact(s): The highest impacts of concern: Storm surge inundation, and dangerous marine conditions
- The expanse of Milton's wind field is expected to greatly increase by later Wednesday and Thursday, reaching at least our coastal areas and Atlantic waters





Current Satellite View

October 7, 2024
6:00 PM



07 Oct 2024 20:31Z - NOAA/NESDIS/STAR GOES-East - Band 13 - Gulf of Mexico

- Milton a dangerous, CAT 5 Hurricane
- Expected to begin to accelerated as it moves toward the northeast Tuesday and Wednesday
- Forecasted to make landfall on the west-central FL coast late Wednesday



National Oceanic and
Atmospheric Administration

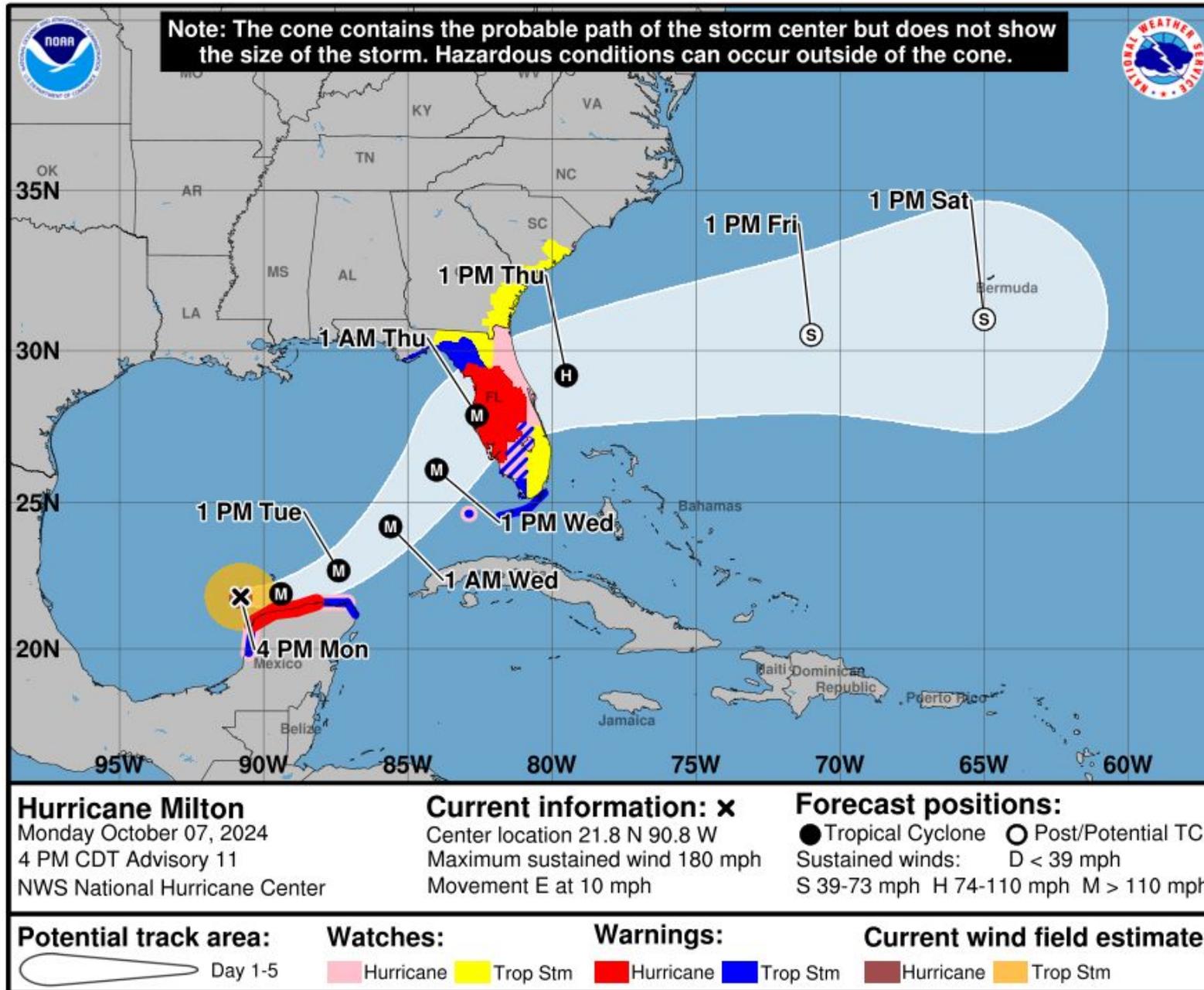
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Charleston, SC



Situation Overview

October 7, 2024
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- **Current conditions:** Dangerous CAT 5, with sustained winds of 180 mph!
- **Movement:** Expected to accelerate to the northeast Tuesday and Wednesday, then off the east-central FL Coast Thursday
- **Milton's wind field** expected to expand into our area Wednesday Night through Thursday

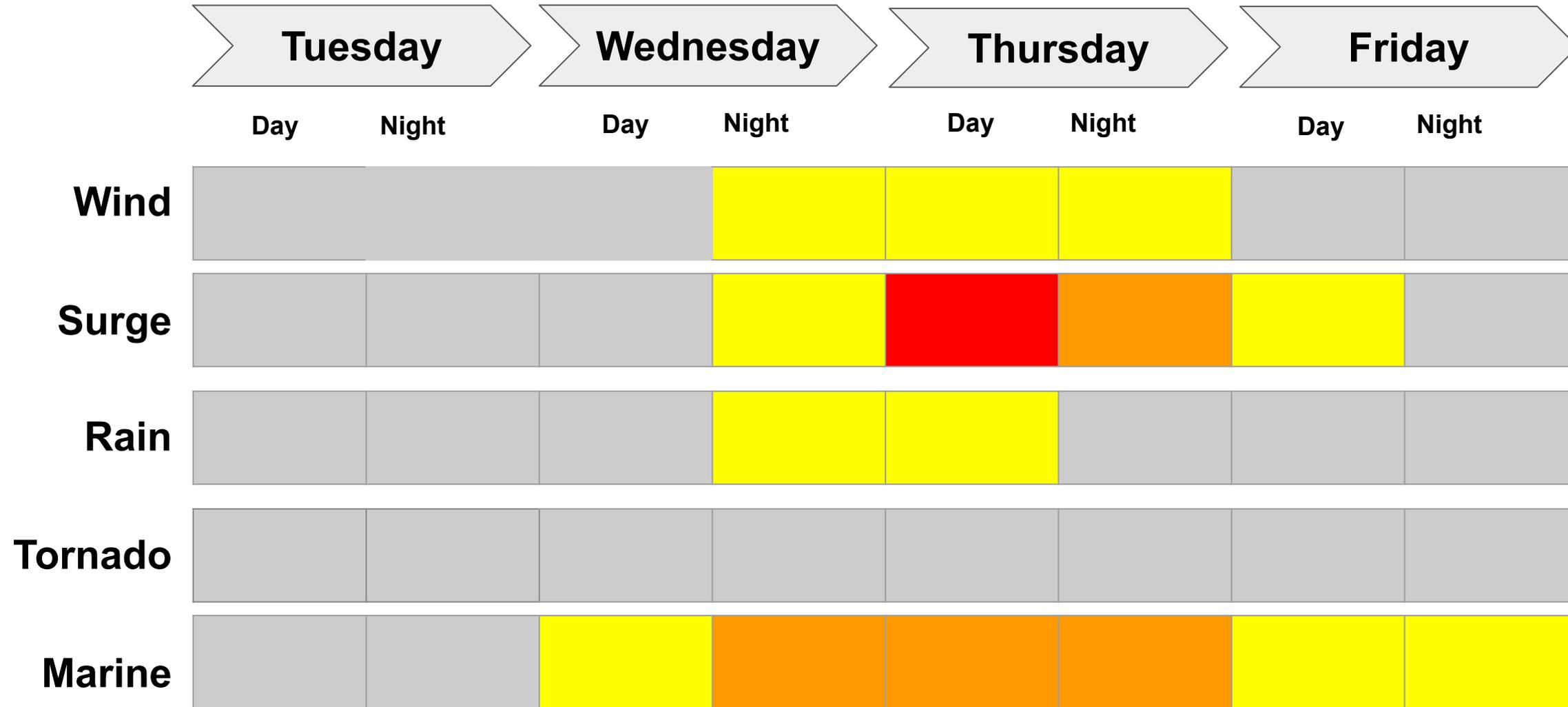




Threat Levels - Max Values for the Storm

October 7, 2024
6:00 PM

NOTE: Timing and Level of Impacts *May Change*



Effects and Impacts Legend

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



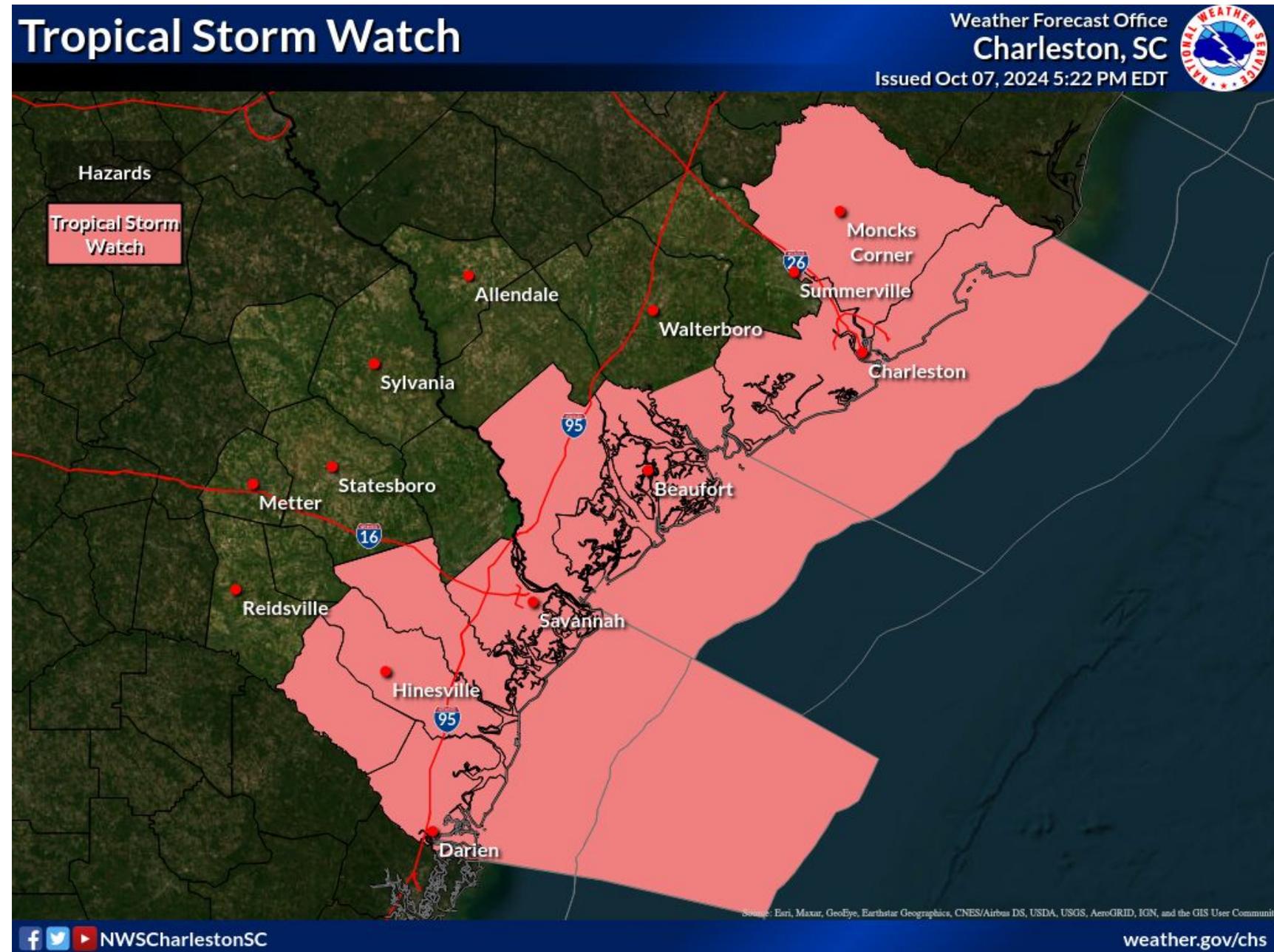
Situation Overview

October 7, 2024
6:00 PM

Hazard	Impacts	Location	Timing
 <p>Wind</p>	<p>TS wind/wind gusts resulting in downed and/or uprooted trees, isolated to scattered power outages, some roads impassable due to debris</p>	<p>Strongest winds closer to the coast, especially Savannah, GA to the Altamaha River</p>	<p>Mainly late Wednesday night through Thursday, possibly into Thursday evening</p>
 <p>Storm Surge and Inundation</p>	<p>Moderate to High impacts from inundation possible. Flooding of some coastal roads and structures possible</p>	<p>Highest threat area from Edisto Beach, SC, southward to the Altamaha River. However, could see coastal flooding for Charleston County too</p>	<p>Mainly with the Thursday afternoon high tide, then again late Thursday night/early Friday morning high tide</p>
 <p>Flooding Rain</p>	<p>Some Flooding of roads/streets, especially in low lying, poorly drained areas along the coast. Watch for heavy rainfall during times of high tide Thu-Fri morning</p>	<p>Heaviest rainfall mainly along the coast, from Beaufort, SC, southward across our southeast GA counties</p>	<p>Mainly Wednesday night through Thursday</p>
 <p>Tornado</p>	<p>No impacts from tornadoes are currently expected</p>	<p>N/A</p>	<p>N/A</p>
 <p>Marine</p>	<p>Dangerous seas and tropical storm force winds/wind gusts with 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>Mainly Wednesday night through Thursday night</p>



Tropical Storm Watch/Warning



- **Tropical Storm Watch:** Includes entire coast + Long County, Atlantic waters, Charleston Harbor



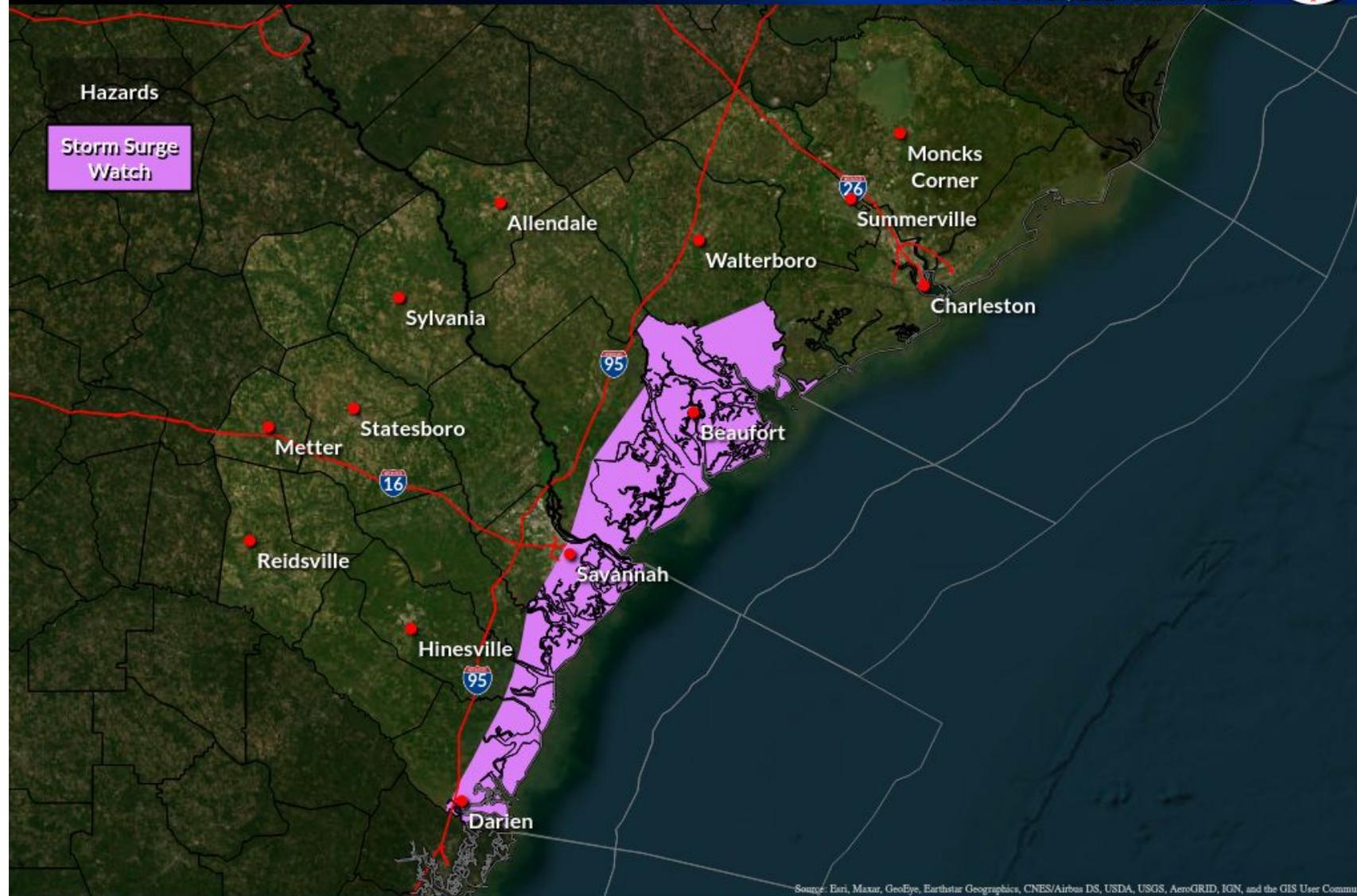
Storm Storm Watch

October 7, 2024
6:00 PM

Storm Surge Watch

Weather Forecast Office
Charleston, SC

Issued Oct 07, 2024 5:24 PM EDT



- **Storm Surge Watch:** Edisto Beach, SC, southward to the Altamaha River

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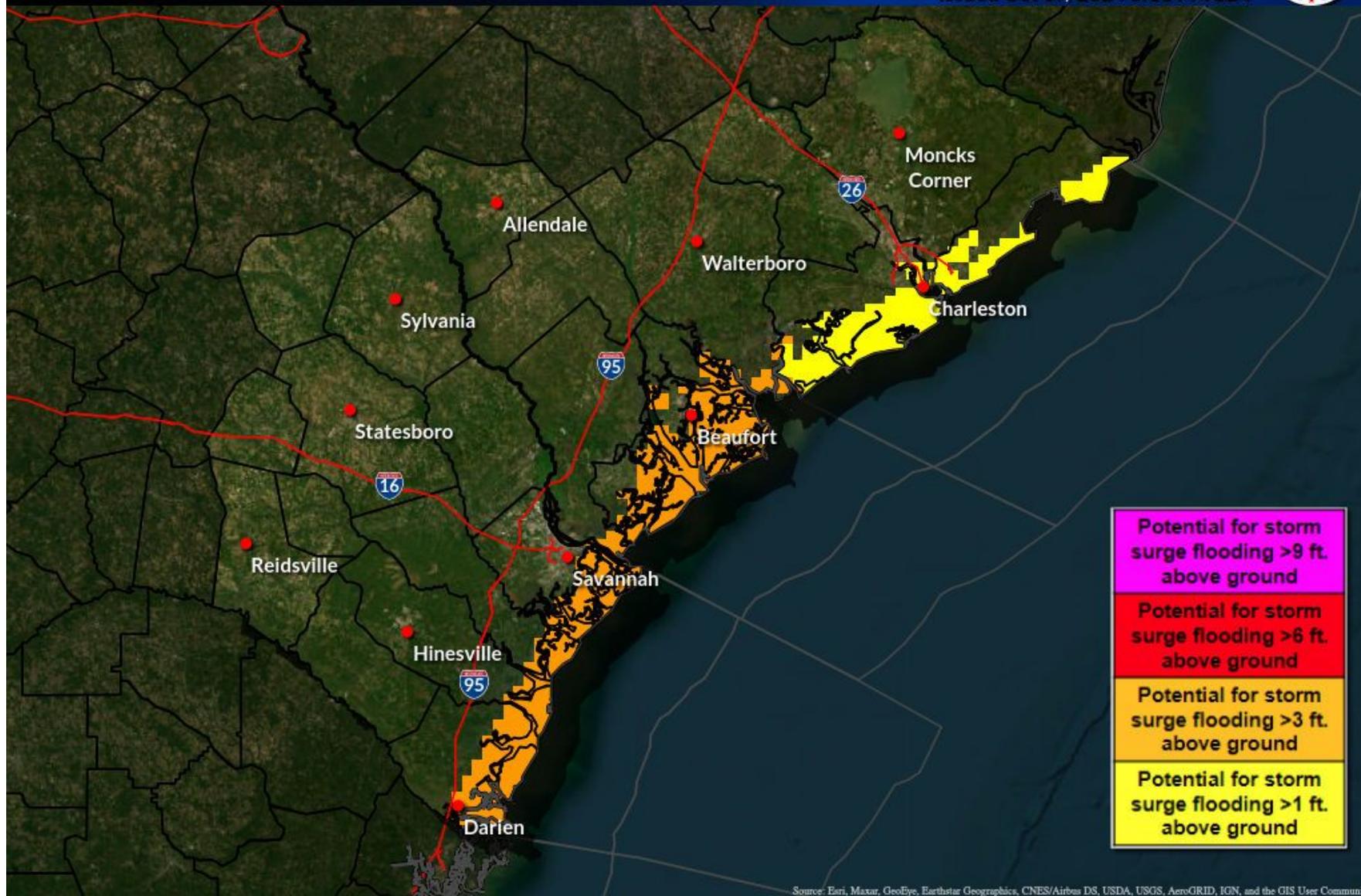


Potential Storm Surge Impacts

October 7, 2024
6:00 PM

Storm Surge Threat

Weather Forecast Office
Charleston, SC
Issued Oct 07, 2024 5:11 PM EDT



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- **Storm Surge Watch up to Edisto Beach, SC**
 - Storm Surge Inundation of 2-4 feet above normally dry ground in/around tidal region
- **Note:** NO Storm Surge Watch in place for Charleston County, SC
- **Timing:** Highest Tide levels currently expected to be Thursday afternoon, BUT could be very high again late Thursday night/early Friday morning



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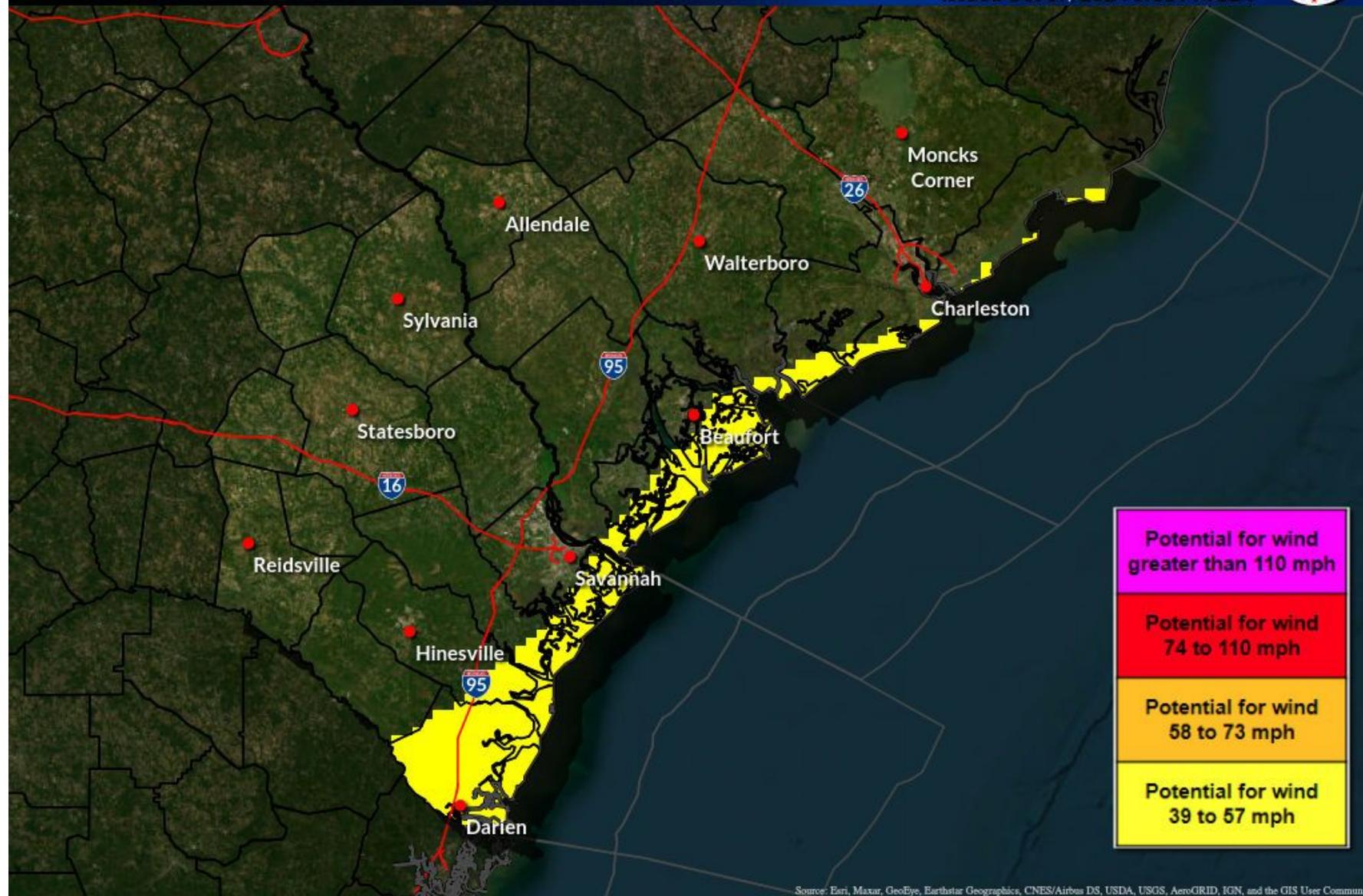


Wind Threat / Potential Impacts

October 7, 2024
6:00 PM

Wind Threat

Weather Forecast Office
Charleston, SC
Issued Oct 07, 2024 5:11 PM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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There is a potential for:

- Tropical Storm Force wind/wind gust, mainly for the coastal counties and Atlantic waters
- **Impacts** (mainly along the coast):
 - Isolated to scattered downed/uprooted trees, broken limbs
 - Isolated to scattered powers outages possible
- **Timing:** Late Wednesday night through Thursday



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Wind Threat / Potential Impacts

October 7, 2024
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CAUTION: Exact Wind Speeds May Change with Later Forecasts

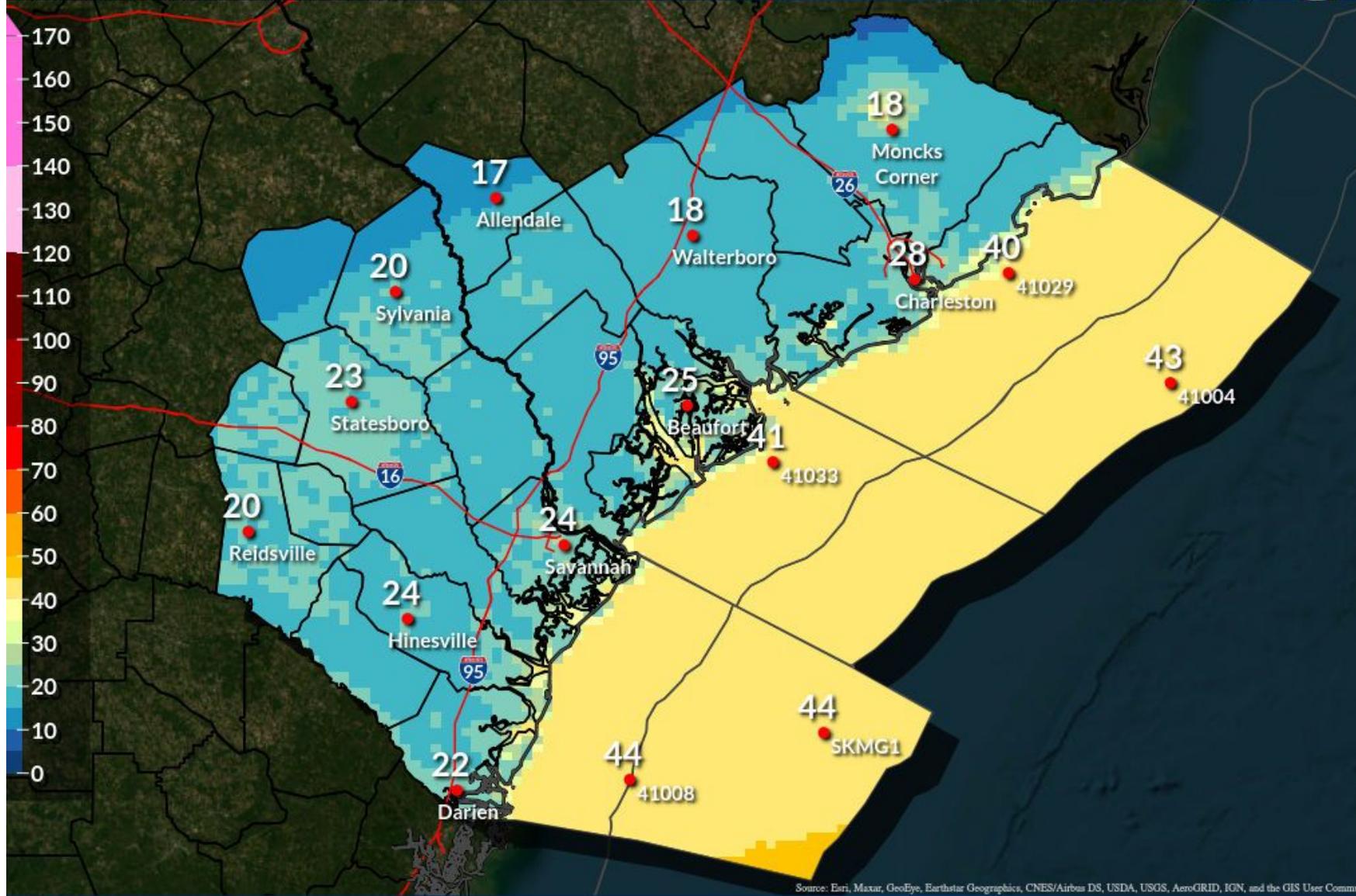
Max Wind Speed (mph)

Valid 8 AM Thu Oct 10 to 8 PM Thu Oct 10, 2024

Weather Forecast Office

Charleston, SC

Issued Oct 07, 2024 5:13 PM EDT



Expected Max *Sustained* Winds (mph):

- Generally 20-30 mph near the coast, especially from Beaufort, SC southward to the Altamaha region
- **Impacts:** Isolated to scattered power outages, downed and uprooted trees, broken tree limbs
- **Note:** Some trees/limbs may break easier due to being weakened from "Helene"

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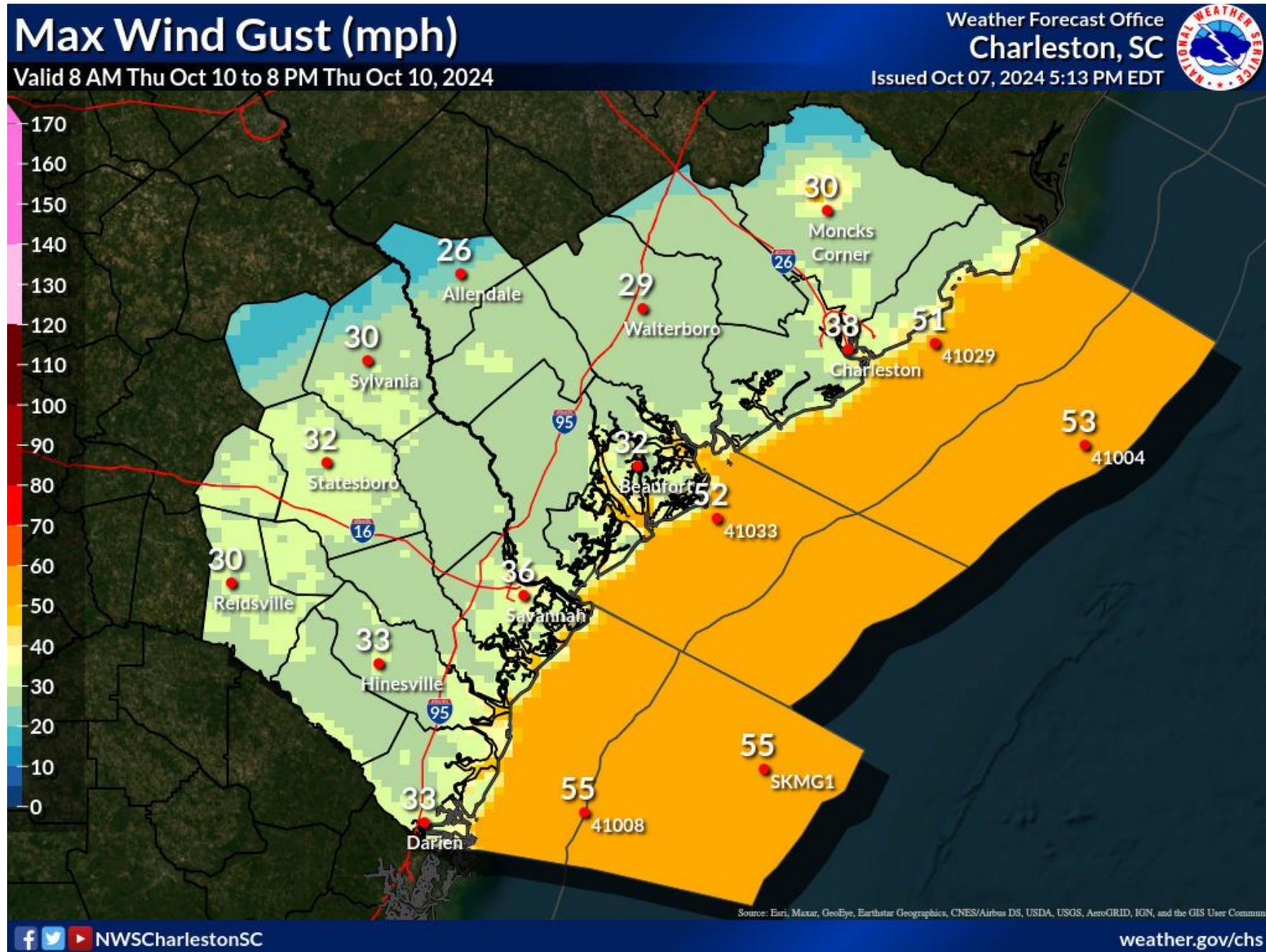
National Weather Service
Charleston, SC



Wind Threat / Potential Impacts

October 7, 2024
6:00 PM

CAUTION: Exact Wind Speeds May Change with Later Forecasts



Expected Max Winds *Gusts* (mph):

- Generally 30-45 mph near the coast, especially from Beaufort, SC southward to the Altamaha region
- **Impacts:** Isolated to scattered power outages, downed and uprooted trees, broken tree limbs
- **Note:** Some trees/limbs may break easier due to being weakened from “Helene”

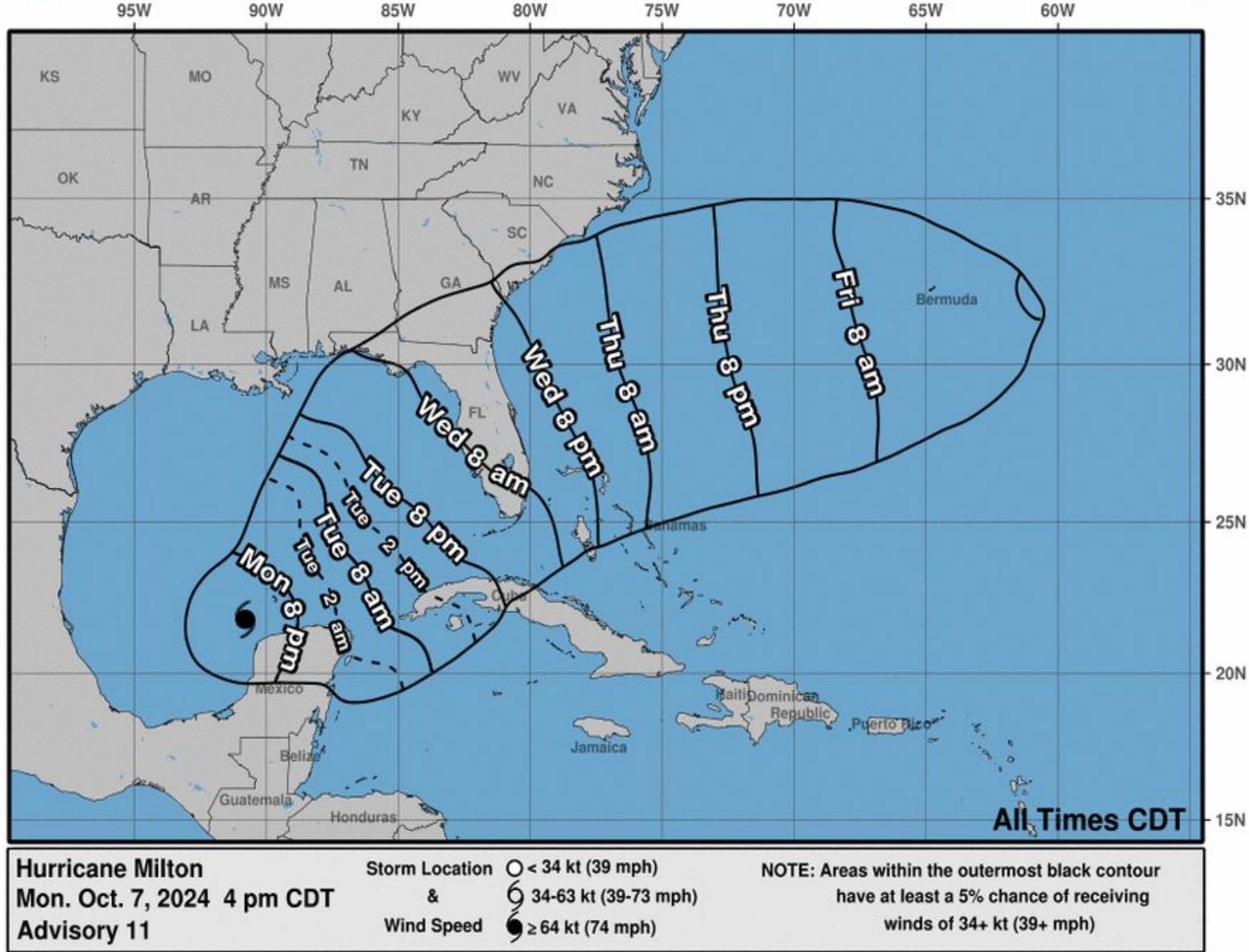




Earliest Reasonable Time of Arrival

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Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



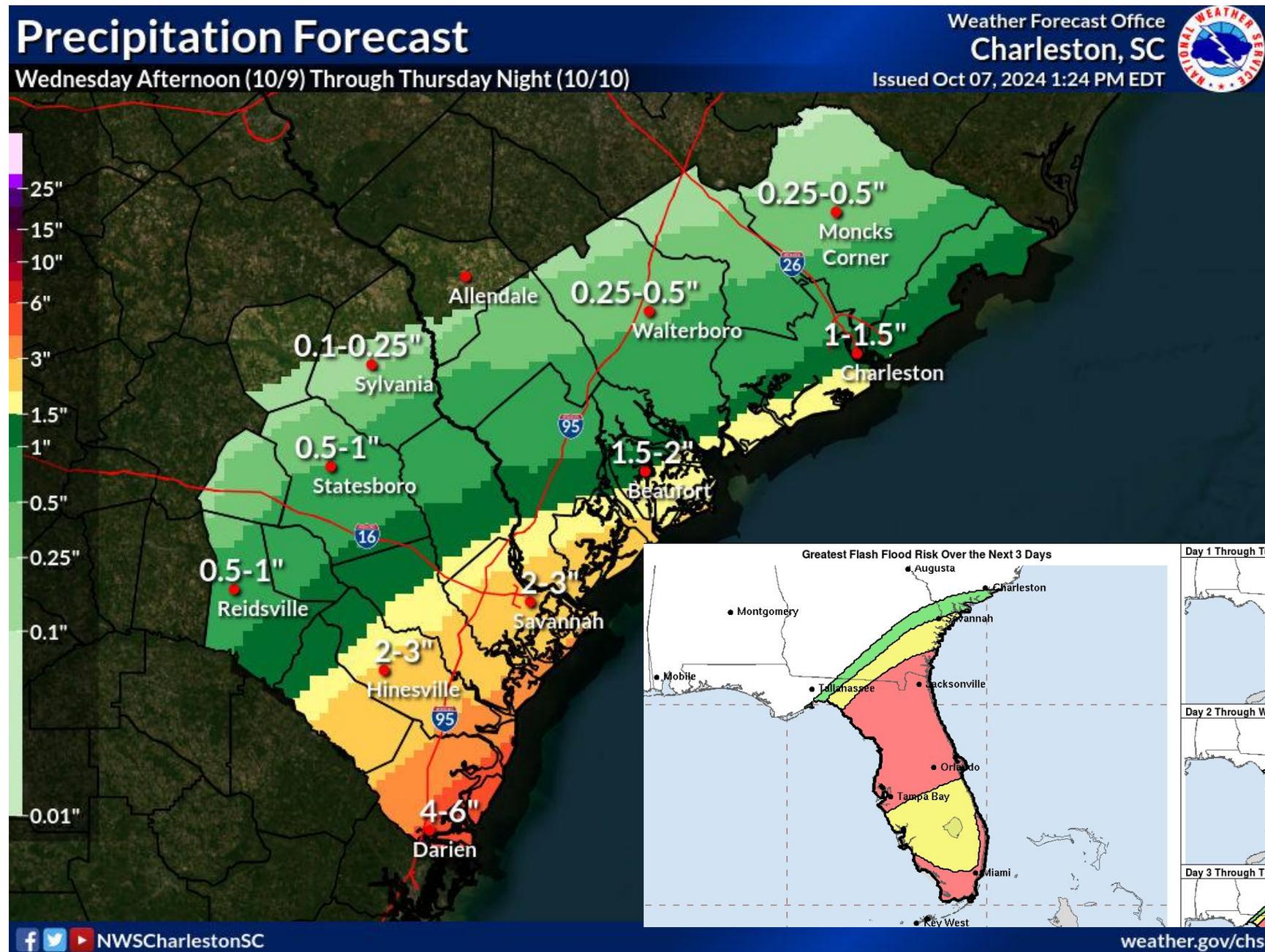
- Trend: Little change from previous NHC Advisory
- Tropical Storm Force winds could arrive as early as:
 - Southeast GA - Wednesday evening
 - Southeast SC - Wednesday night
- However, the Most Likely time (not shown) for Tropical Storm Force Winds:
 - Southeast GA - Late Wednesday night/early Thursday morning
 - Southeast SC - Thursday morning





Expected Storm Total Rainfall

October 7, 2024
6:00 PM



Wednesday Afternoon through Thursday night

- Highest rainfall totals over southeast GA counties, from the Savannah area, southward to the Altamaha
- Locally higher amounts possible, mainly near the coastline
- Weather Prediction Center has a Slight Risk for Flash Flooding, mainly southeast GA coastal counties





Potential Marine Impacts

October 7, 2024
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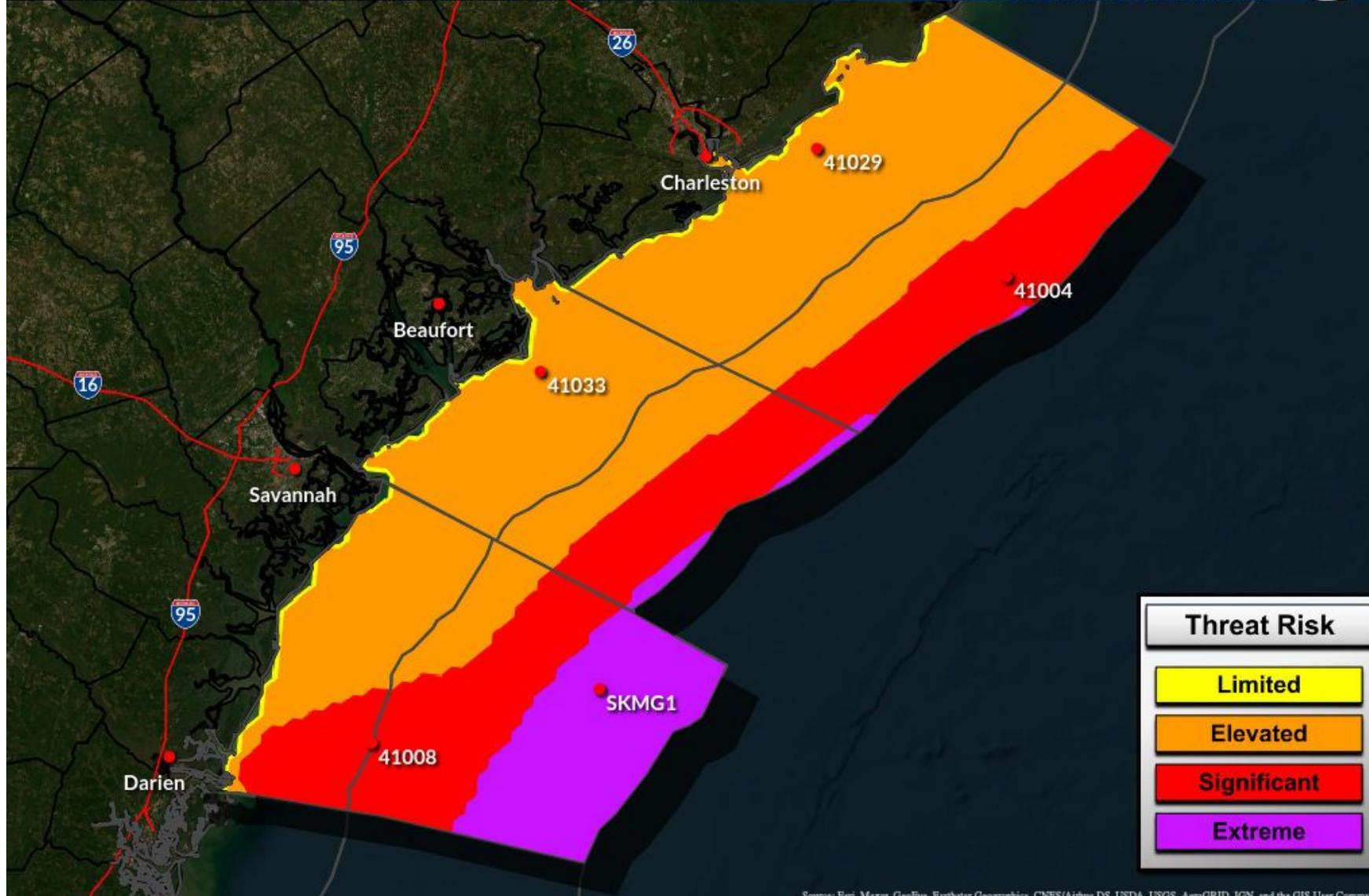
Marine Hazard Risk for Thu/Thu Night

Weather Forecast Office
Charleston, SC



Valid 8 AM Thu Oct 10, 2024 to 8 AM Fri Oct 11, 2024

Issued Oct 07, 2024 5:11 PM EDT



Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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- **Tropical Storm Force Wind/Wind Gusts:**
 - Sustained Winds: 30-40 knots, Gusts 40-50 knots (highest beyond 20 nm)
 - Strongest winds/wind gusts likely within heavy rainbands
- **Dangerous Seas/Waves:**
 - Seas building to 6-12 feet out 20 nm and 12-18 feet from 20-40 nm Thursday and Thursday night



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Potential Beach Impacts

October 7, 2024
6:00 PM

Rip Current Risk for Wed/Wed Night

Valid 8 AM Wed Oct 09, 2024 to 8 AM Thu Oct 10, 2024

Weather Forecast Office
Charleston, SC

Issued Oct 07, 2024 3:10 PM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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Beach Hazards:

- **High Risk for Deadly Rip Currents** through at least Thursday night
- **High Surf and Significant Beach Erosion Likely**
 - **Timing:** mainly Wednesday night through Friday morning



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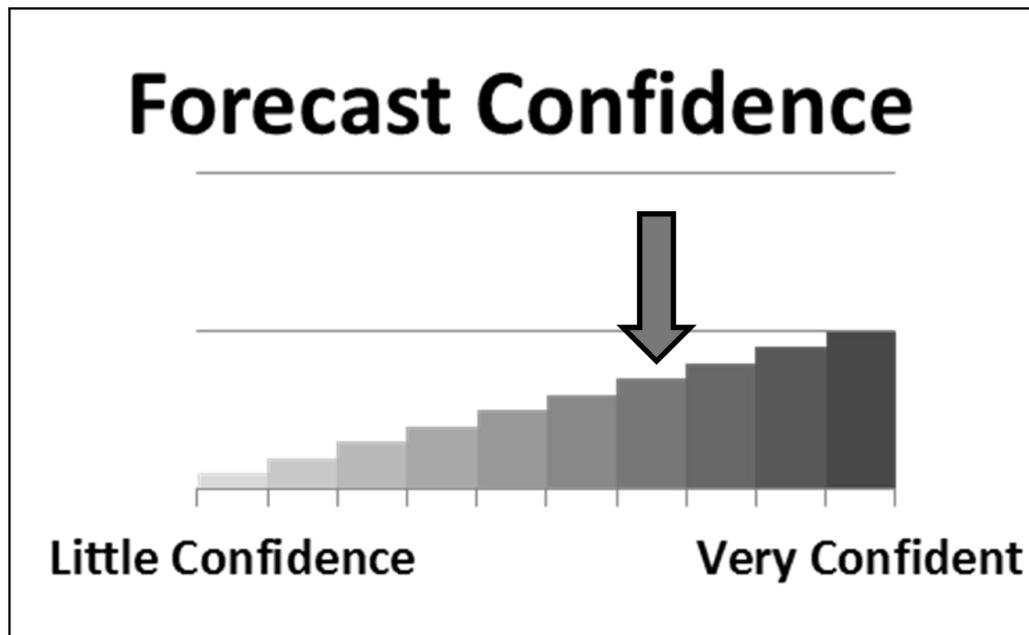
National Weather Service
Charleston, SC



Key Take-Aways

October 7, 2024
6:00 PM

- Milton rapidly intensified to a strong dangerous Category 5 Hurricane over the southern Gulf of Mexico
- Impact(s): The highest impacts include potential for storm surge inundation, and dangerous marine conditions
- The expanse of Milton's wind field is expected to greatly increase by Wednesday and Thursday, reaching at least our coastal areas and Atlantic marine region



Overall Storm Track Confidence: Moderate to High

Confidence for Local Level & Timing of Impacts: Moderate





Next Briefing:

Tuesday October 8 - around 6 AM EDT

Method: email/slide deck