

IMPACTS FOR D7 (through next 3 days)

Winds – Moderate

Storm Surge – Moderate

Rainfall/Flash Flooding – Moderate

Tornadoes – Low

Waves - High

TROPICAL STORM NICOLE BRIEFING



9:00 AM EST
Thursday, November 10, 2022

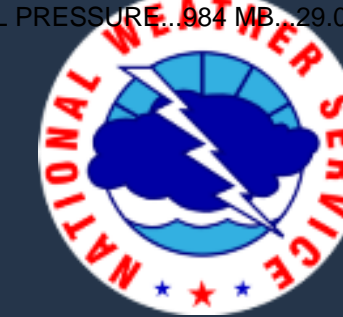
Prepared by:
Scott Stripling

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

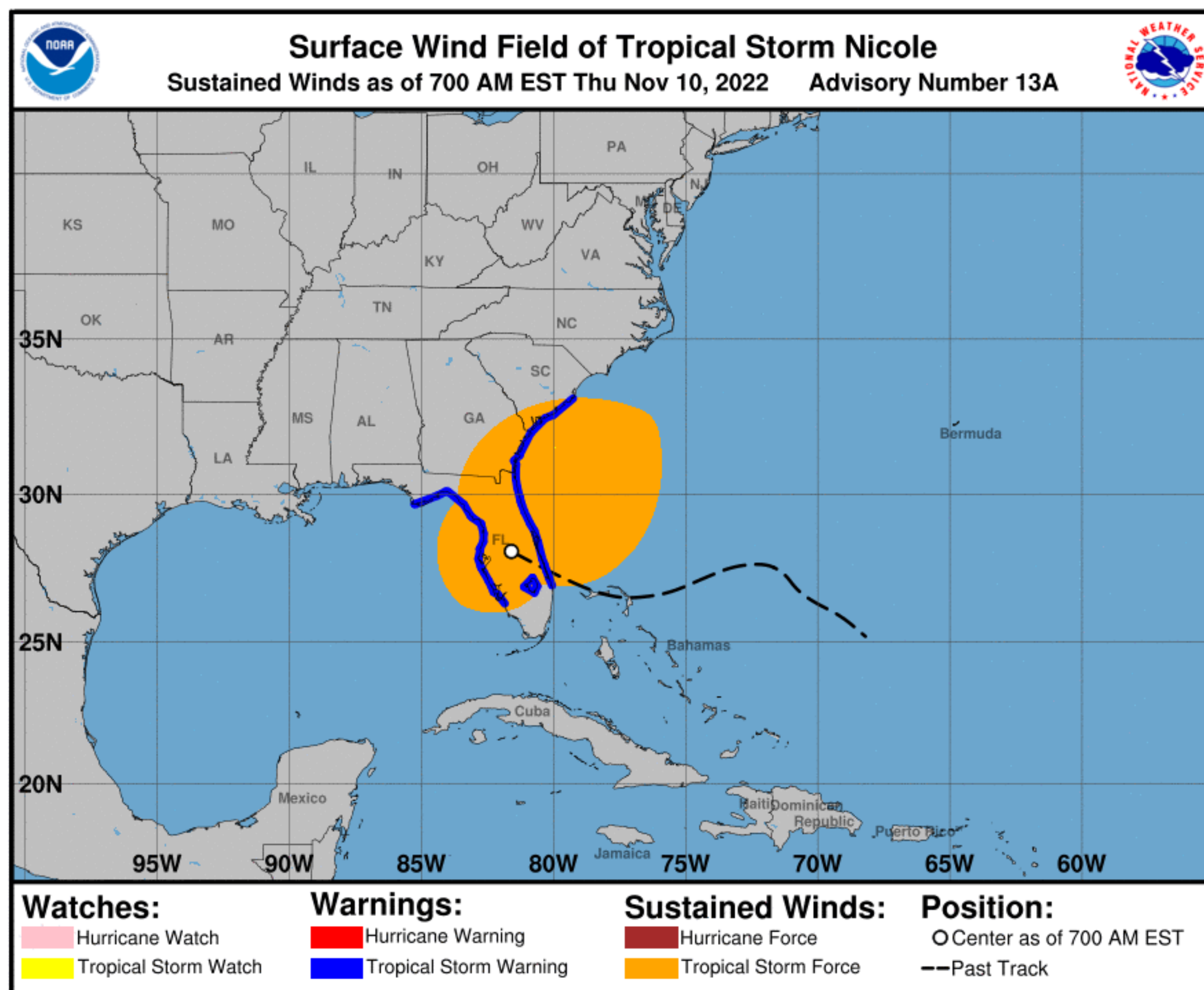


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www.nhc.noaa.gov



Tropical Storm Nicole



...Nicole Now Centered Over Central
Florida...

Summary Information as of 700 AM EST...1200 UTC...

Location...28.1N 81.6W

About 30 mi SW of Orlando, Florida

About 55 mi E of Tampa, Florida

Maximum Sustained Winds...60 mph

34 kt Wind Radii: 390NW 90SE 150SW 150NW

12 ft Sea Radii: 600NE 240SW 0SW 0NW

**Present Movement...WNW or 295 degrees at
14 mph**

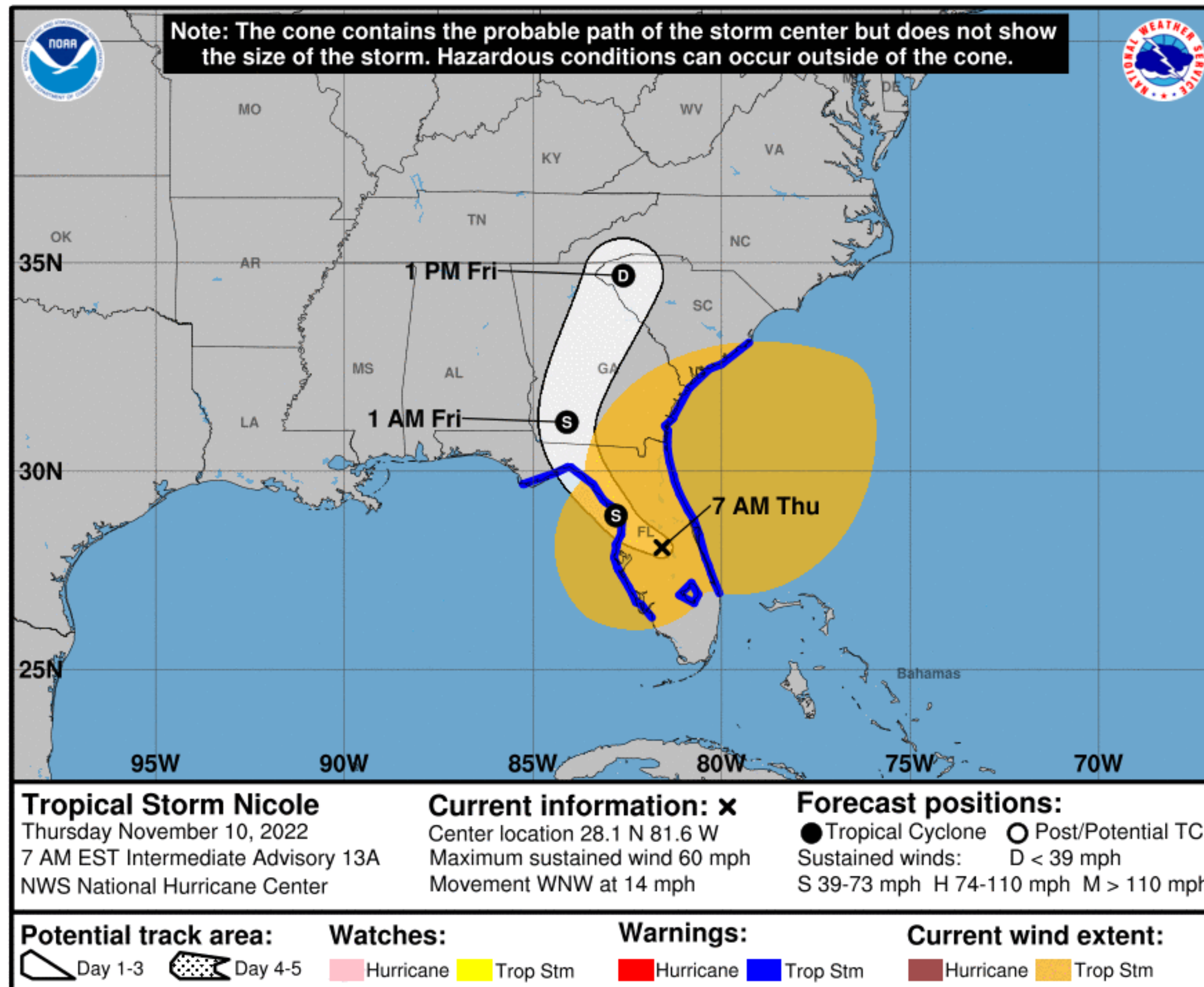
Minimum Central Pressure... 984 mb

Forecast Information

Tropical Storm Nicole



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

- Tropical Storm Nicole is forecast to move NW today and gradually turn to the N across the Florida Big Bend by tonight.
- Large area of TS force winds and high seas continue across the adjacent Atlantic waters.
- Nicole expected to gradually weaken and exit the region to the N on Fri night.
- Tropical storm conditions are still expected over much of the Florida Gulf coast into tonight.
- White swath of potential track error added to each side of the forecast track through day 3

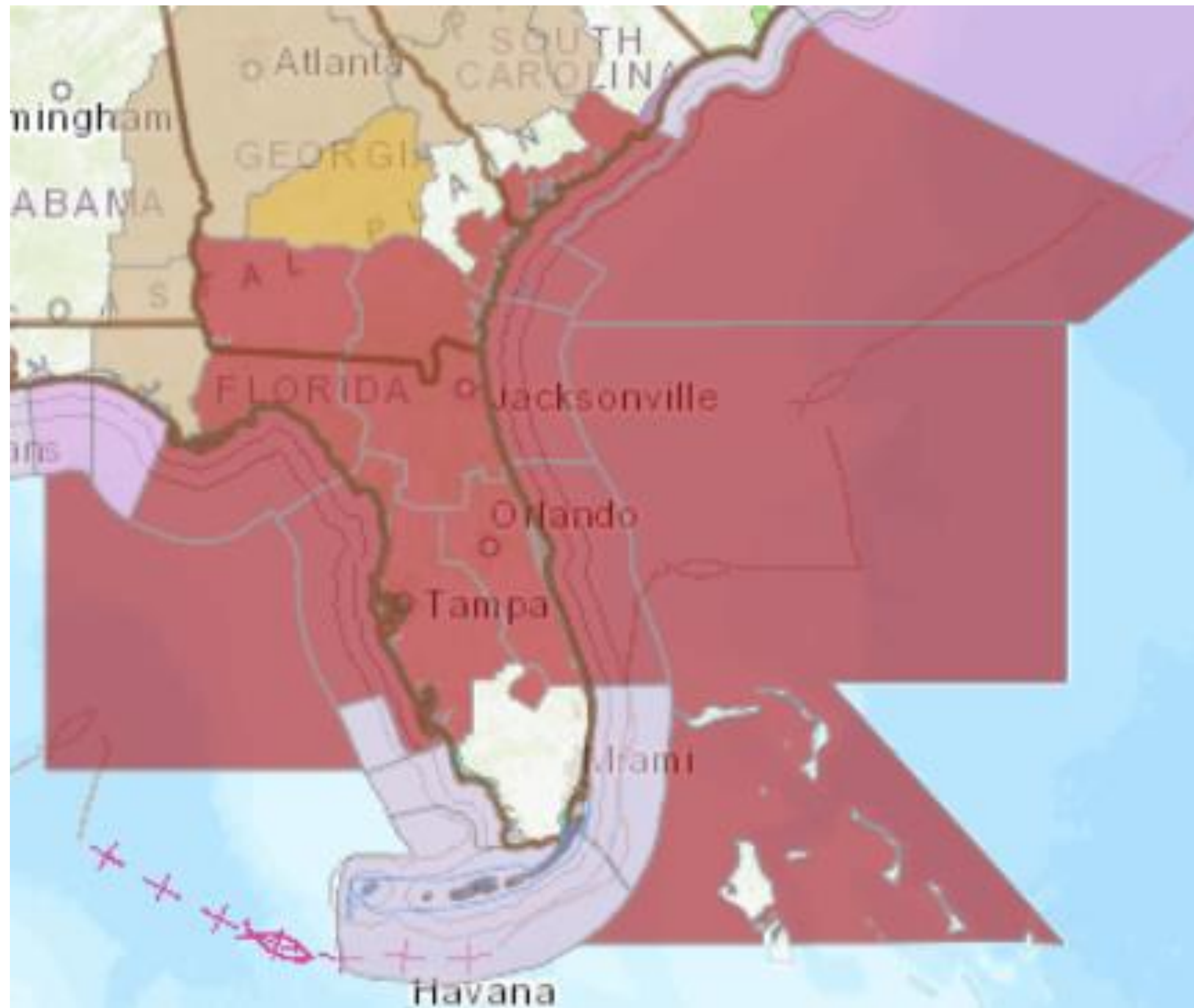
**** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.**

Hazards Map

Tropical Storm Nicole



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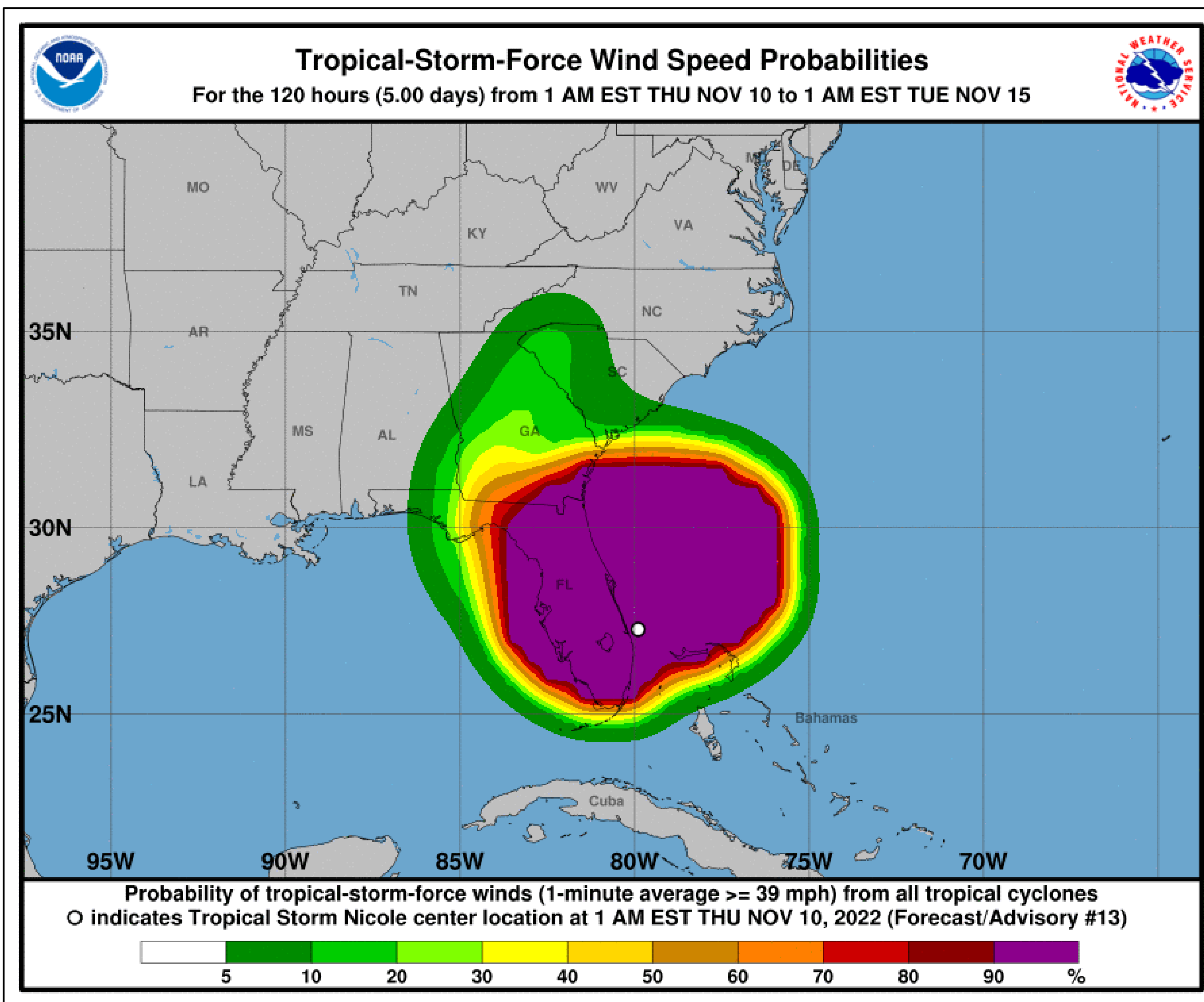
- Copy/paste image from <https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Nicole



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- Miami – 100%
- Ft. Lauderdale – 100%
- Palm Beach – 100%
- Ft. Pierce – 100%
- Patrick AFB – 100%
- Cocoa Beach – 100%
- Daytona Beach – 100%
- Jacksonville – 100%
- Mayport – 100%
- Kings Bay – 100%
- Waycross – 80%

- St. Marks – 75%
- Cedar Key – 100%
- Tampa – 100%
- Venice – 100%
- Ft. Meyers – 100%

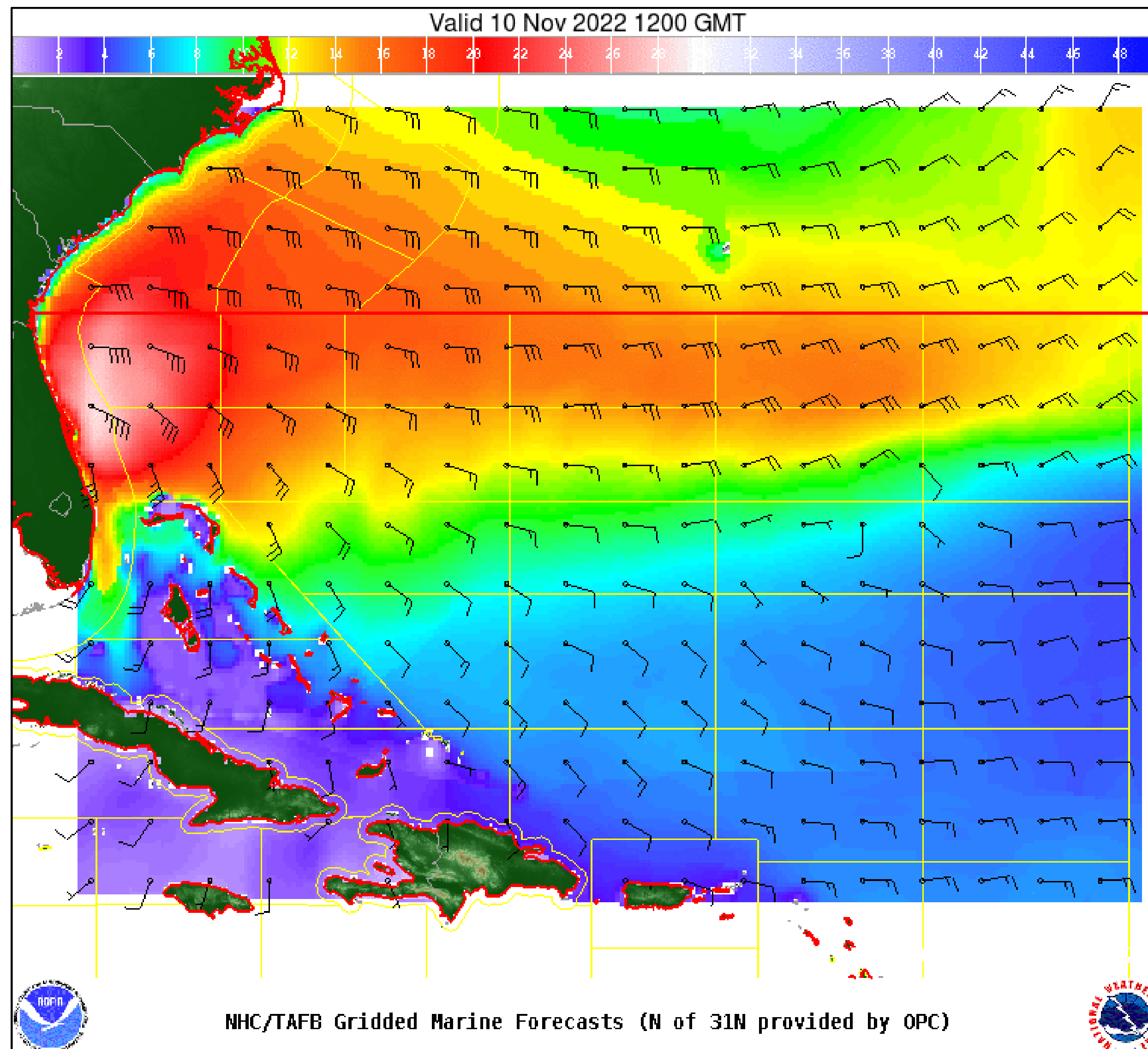
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Wind And Waves

Tropical Storm Nicole



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Current Conditions

7 AM Today Nov 10

Peak Winds: 50 kt

Peak Seas: 30 ft

- Wave heights are in feet



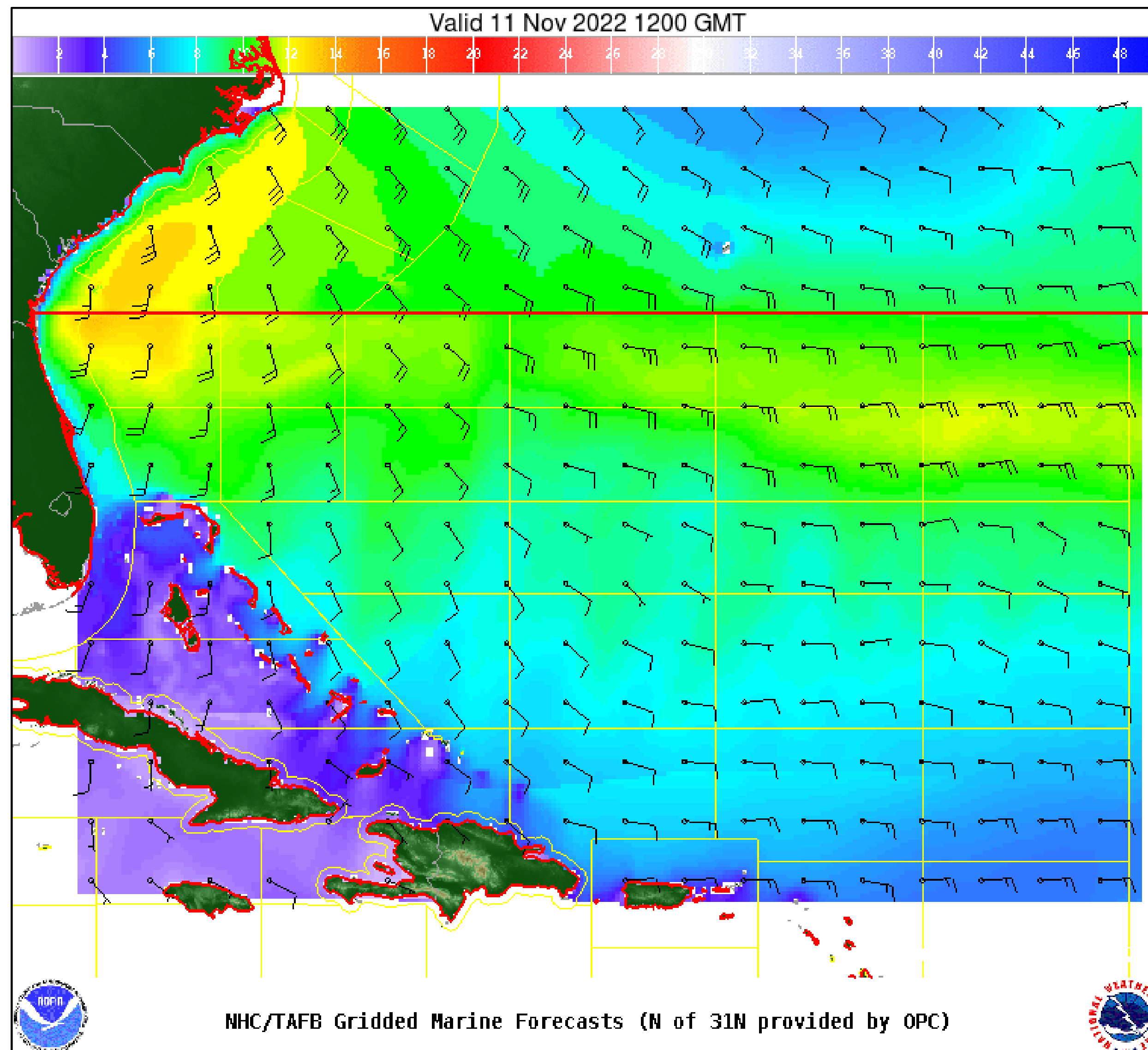
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Nicole



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24 Hour Forecast

7 AM Fri Nov 11

Peak Winds: 35 kt

Peak Seas: 15 ft

■ Wave heights are in feet



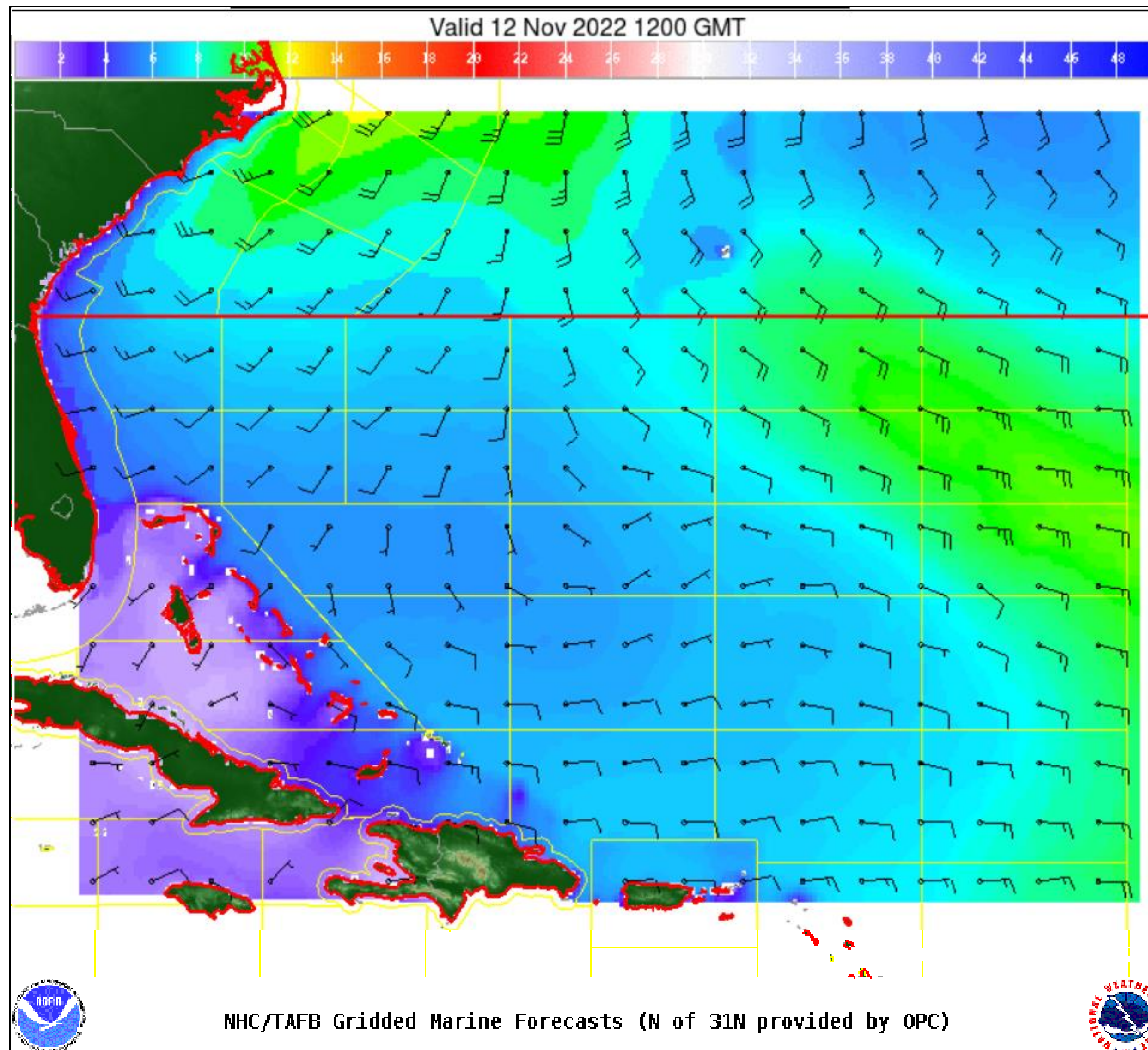
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Nicole



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48 Hour Forecast

7 AM Sat Nov 12

Peak Winds: 25 kt

Peak Seas: 10 ft

■ Wave heights are in feet



Significant Wave Height (ft)

Time of Departure

Tropical Storm Nicole



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- Time of Tropical Storm Force Winds Ending:
- Central East Coast FL – Noon today
- NE Coast FL – This evening
- West Coast FL – Midnight tonight
- Georgia – This evening

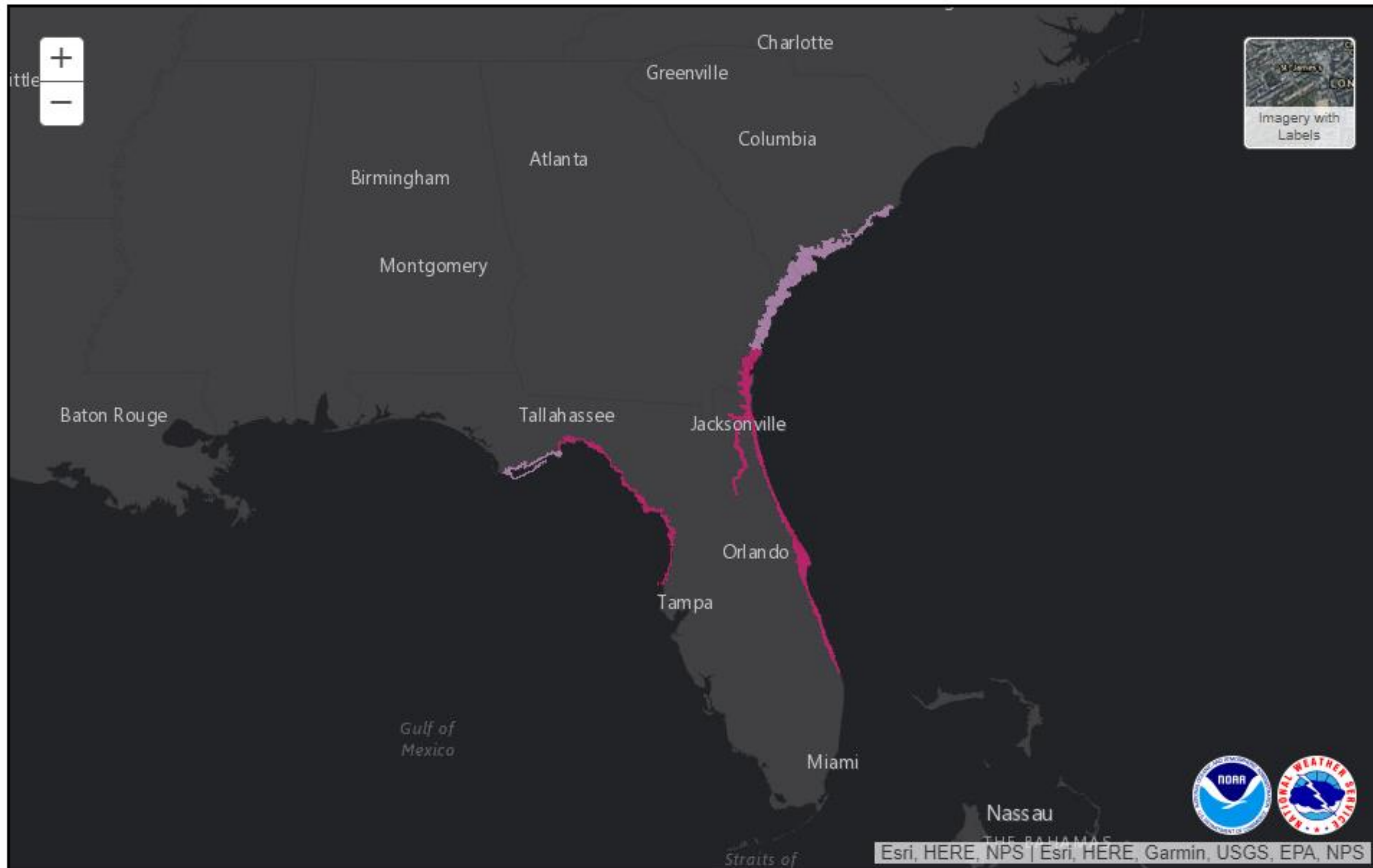
Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Nicole

Tropical Storm Nicole
Advisory 013 Issued: 4:00 AM EST Thu Nov 10



A **Storm Surge Warning** is in effect for...

- Anclote River Florida to Ochlockonee River Florida
- Jupiter Inlet Florida to Altamaha Sound Georgia
- Mouth of the St. Johns River to Georgetown Florida



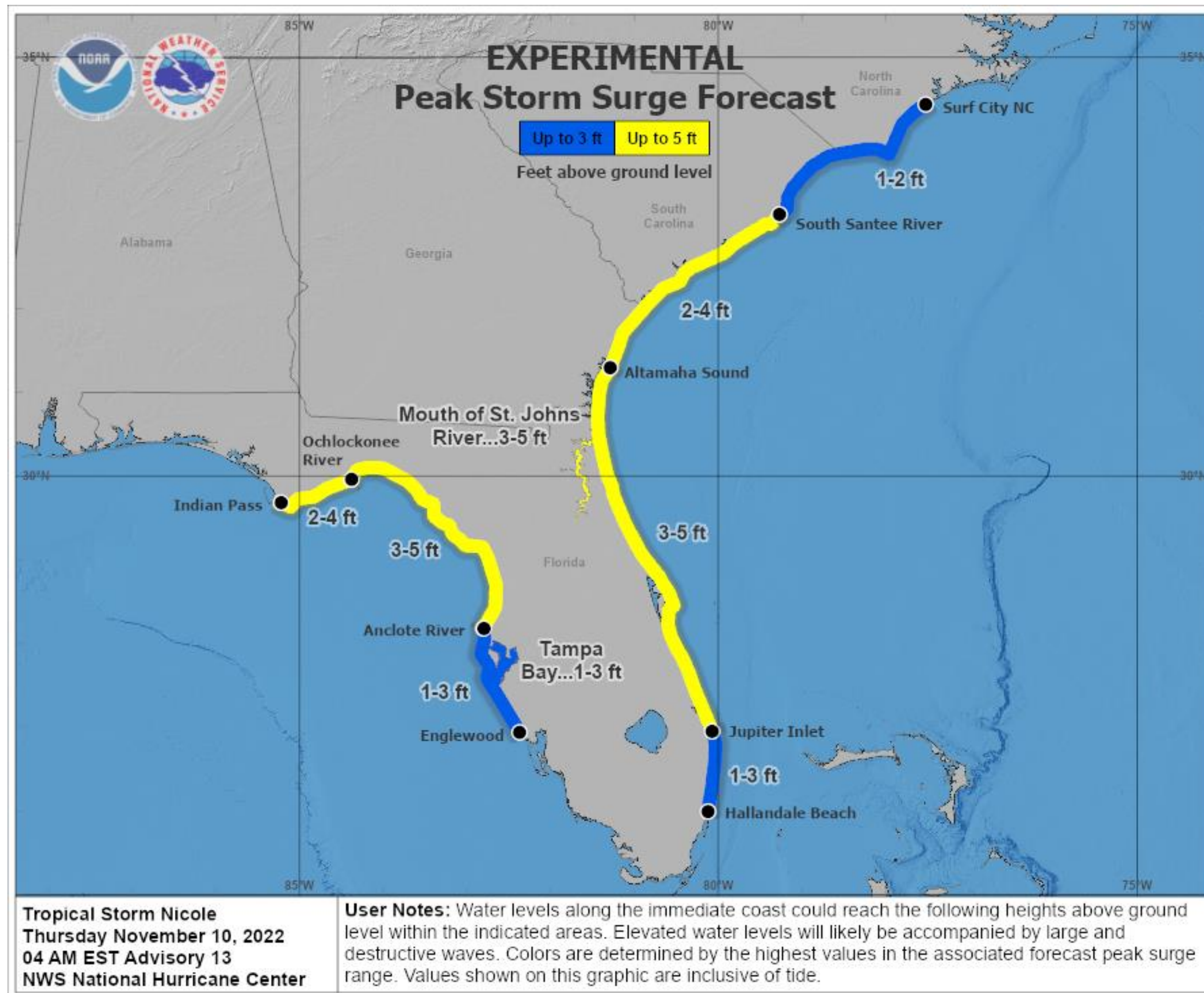
A Storm Surge Warning means there is a **danger of life-threatening inundation** from rising water moving inland from the coastline in the indicated locations.

Potential Peak Storm Surge

Tropical Storm Nicole



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- Potential storm surge is represented **in feet above normally dry ground** at any given point along the coast.
- Elevated water levels will likely be accompanied by large and destructive waves.

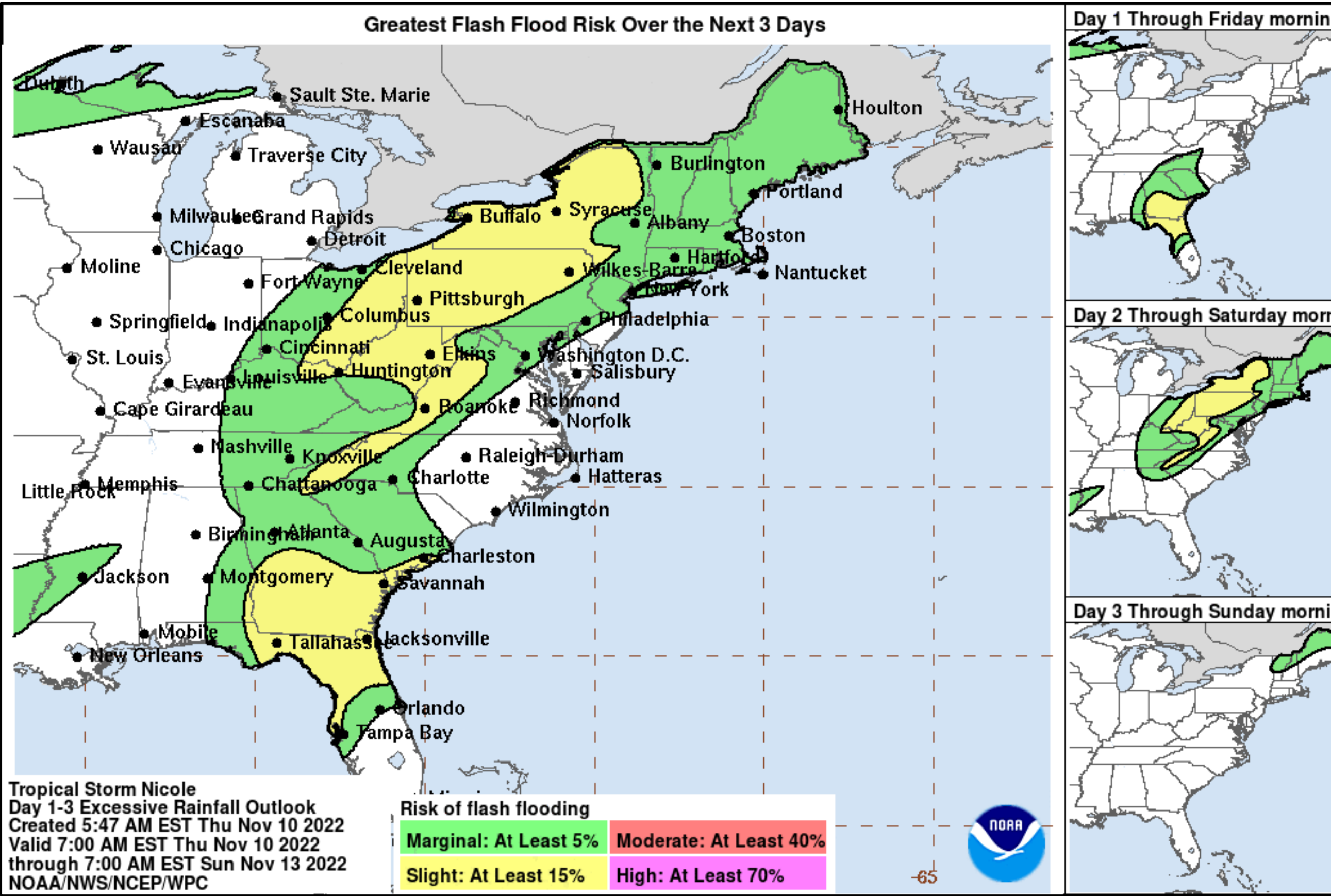
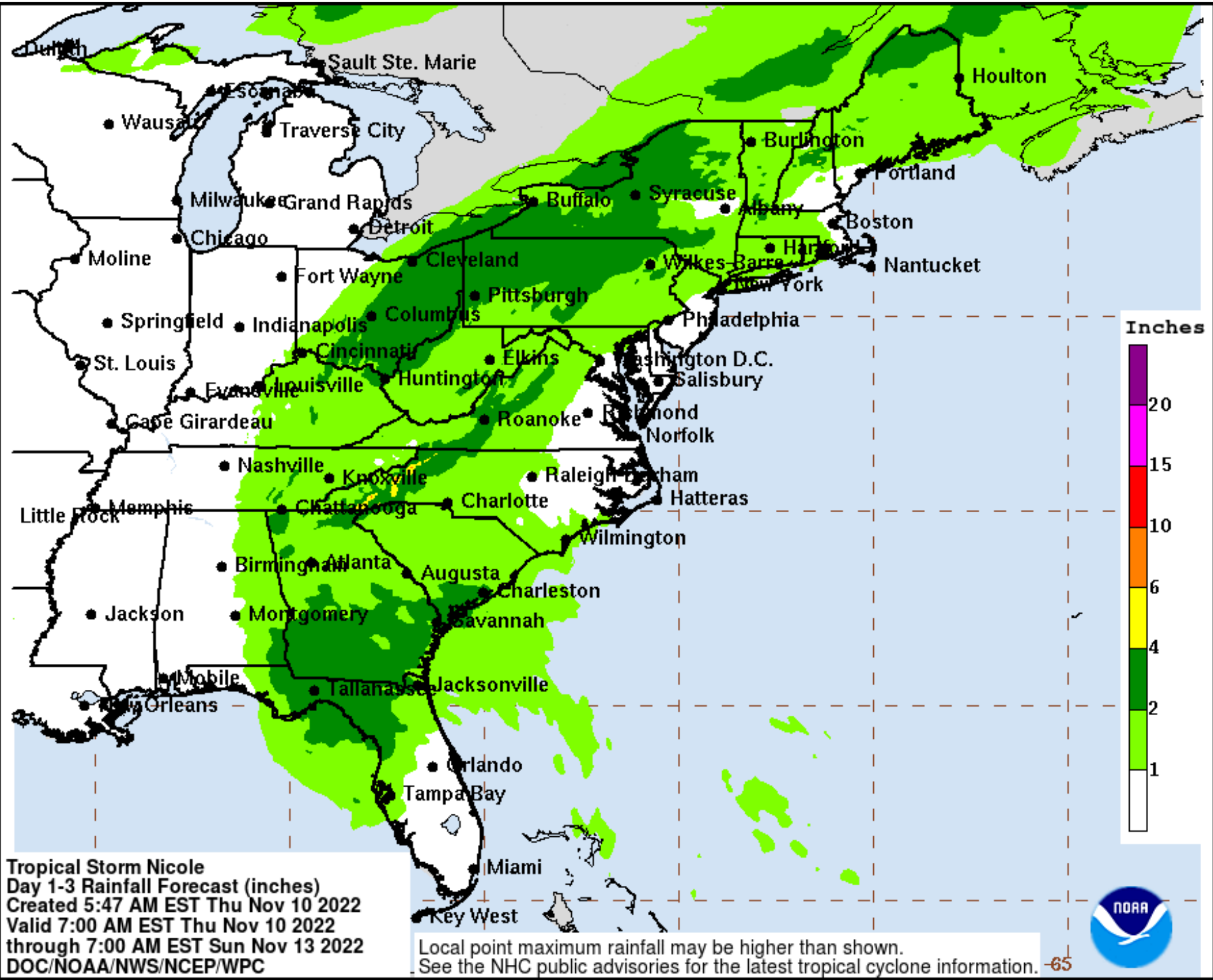
Expected Storm Total Rainfall and Chance of Rainfall Flooding

Tropical Storm Nicole

Images from NWS Weather Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Valid through 7 AM Sun Nov 13

Risk of rainfall exceeding flash flood guidance
within 25 miles of a point

HIGH: > 50% **SLGT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**

Valid through 7 AM Sun Nov 13

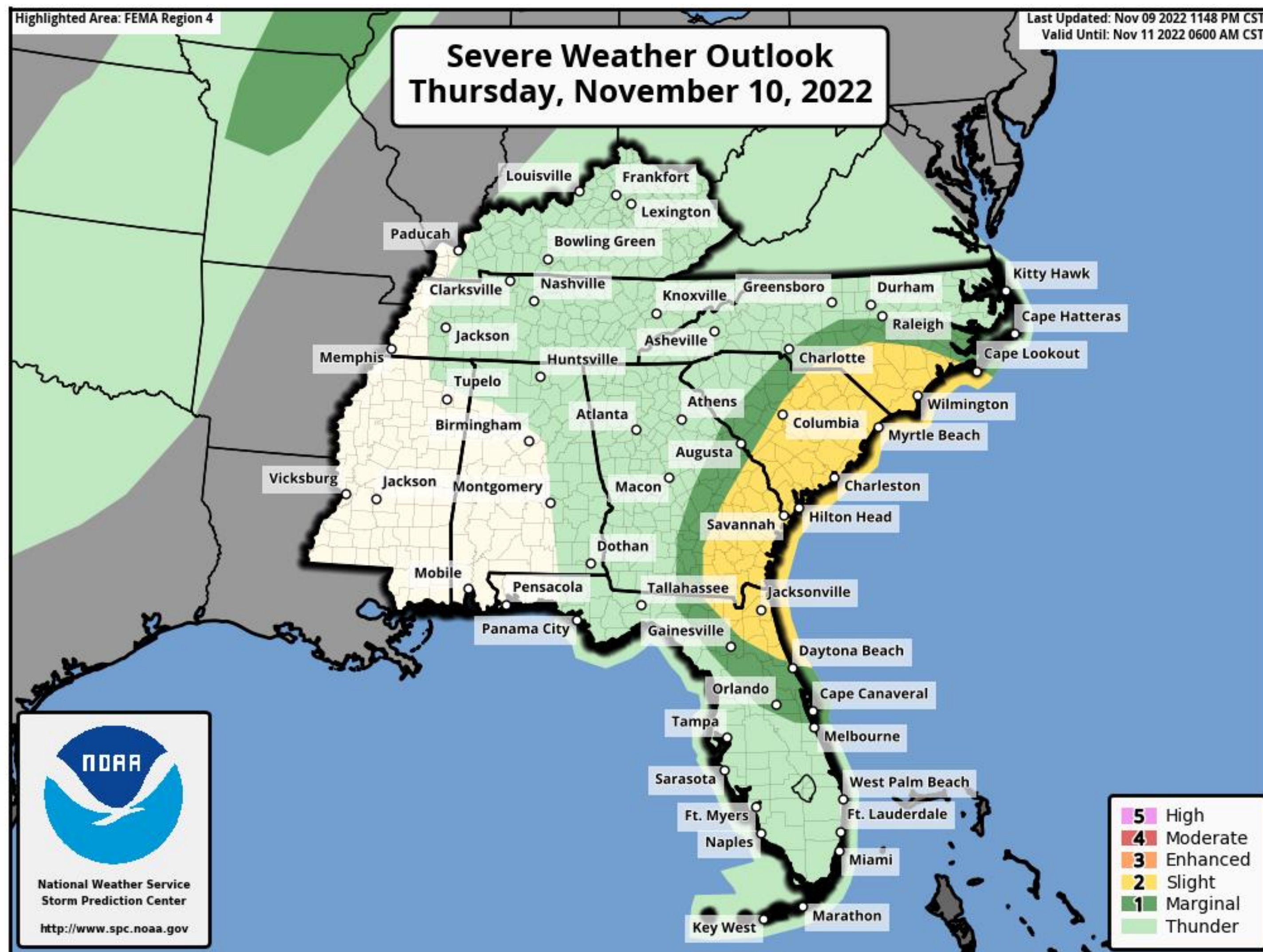
Tornado Outlook – Day 1

Tropical Storm Nicole

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



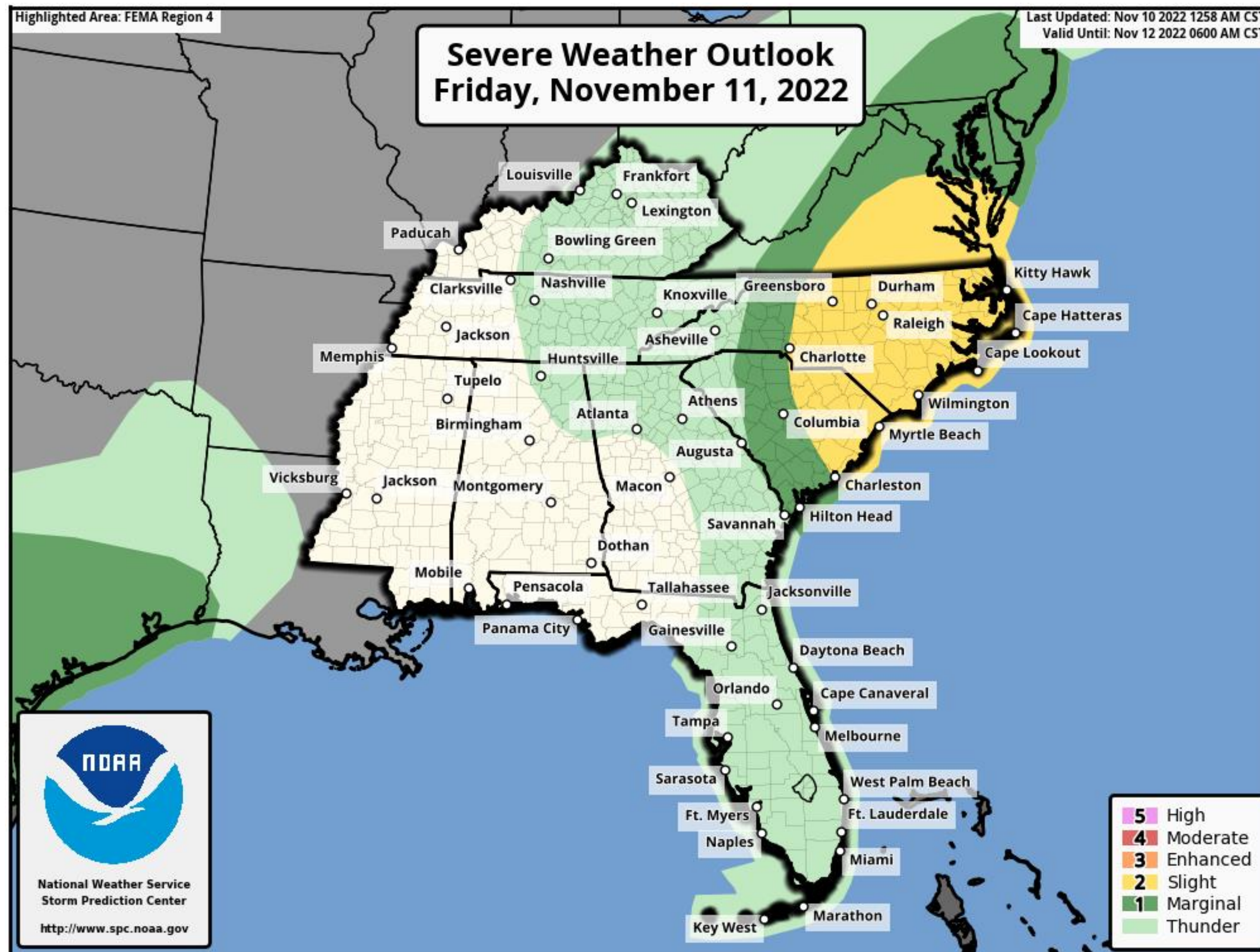
Tornado Outlook – Day 2

Tropical Storm Nicole

Image from NWS Storm Prediction Center



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NWS National Hurricane Center



Key Messages

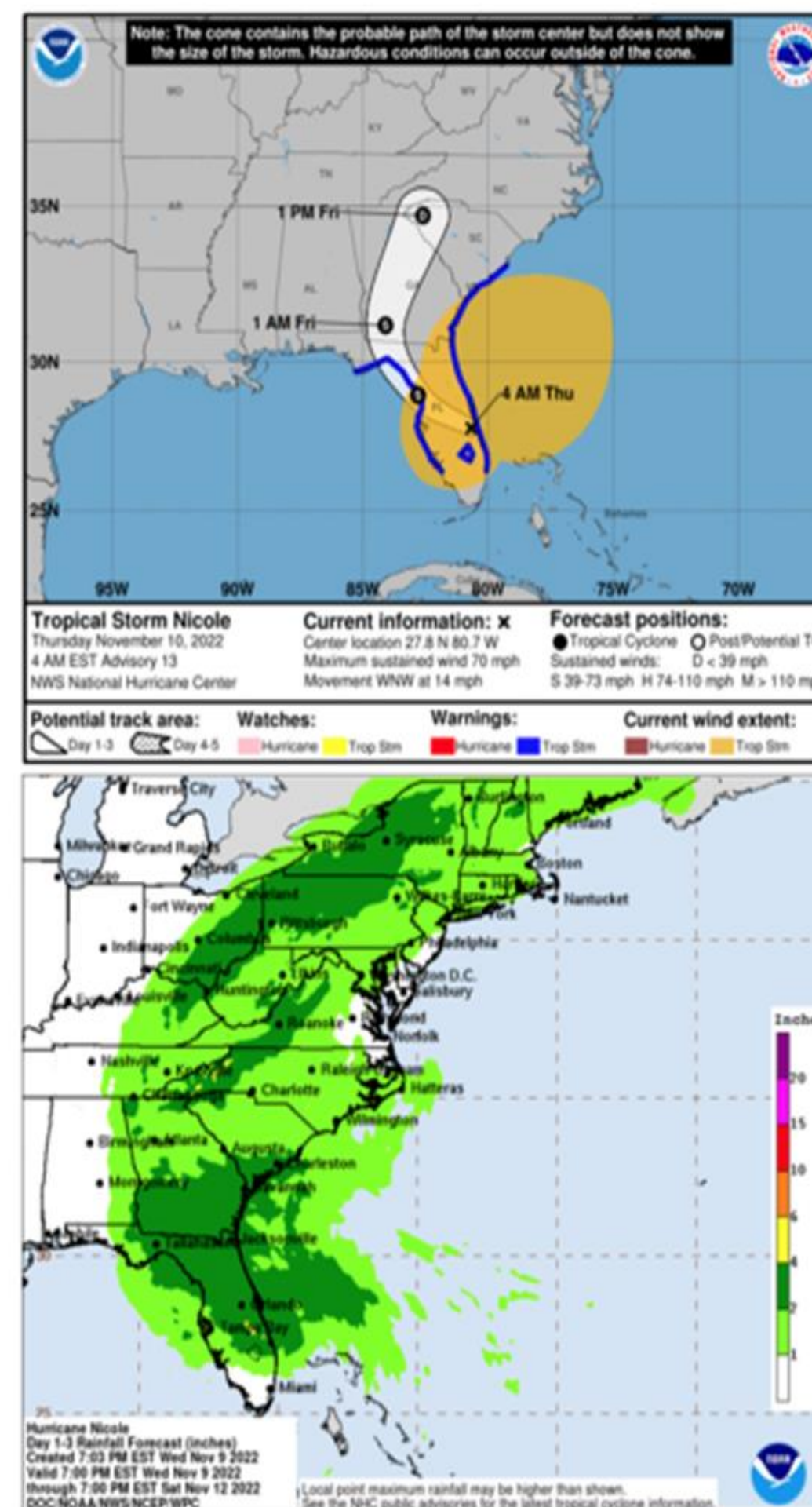
Tropical Storm Nicole



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Advisory 13: 4:00 AM EST Thu Nov 10, 2022

1. Tropical storm conditions will continue along the east coast of Florida, Georgia, and South Carolina within the warning areas today. Tropical storm conditions will spread northward along the west coast of Florida to the coast of the Florida Panhandle through tonight.
2. A dangerous storm surge is expected along portions of the east-central and northeastern coast of Florida, portions of coastal Georgia, and the Florida Big Bend along the Gulf coast. The storm surge will be accompanied by large and damaging waves along the Atlantic coast. Residents in the warning area should listen to advice given by local officials.
3. Do not focus on the exact track of Nicole since it is a large storm with hazards extending well to the north of the center, outside of the forecast cone. These hazards will continue to affect much of the Florida peninsula and portions of the southeast United States.
4. Nicole will produce heavy rainfall today across the Florida Peninsula. Flash and urban flooding will be possible across portions of the Florida Peninsula along with renewed river flooding on the St. Johns River. Isolated flash, urban, and small stream flooding will also be possible on Friday in the Southeast through the central Appalachians, including the Blue Ridge Mountains, and extending northward through eastern Ohio, west central Pennsylvania, into western New York by Friday night into Saturday.



For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 3 days)

Winds – **Moderate**

Storm Surge – **Moderate**

Rainfall/Flash Flooding – **Moderate**

Tornadoes – **Low**

Waves - **High**

- Expect tropical storm conditions to continue across a large area of the western Atlantic, and across the Florida Gulf coast today
- High seas and storm surge to continue across the Atlantic coasts from South Carolina to Central Florida through Friday.



TROPICAL STORM NICOLE BRIEFING

You can contact the Tropical Analysis and Forecast Branch at
305-229-4424

*The Next Briefing Will Be:
Thursday 4:00 PM EST*

You can always find get the latest graphics and information for this storm at www.hurricanes.gov



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