

**IMPACTS FOR D7 (through next 5 days)**

**Winds – High**

**Storm Surge – Moderate**

**Rainfall/Flash Flooding – Moderate**

**Tornadoes – Low**

**Waves - High**

# TROPICAL STORM NICOLE BRIEFING



9:00 AM EST

Wednesday, November 9, 2022

Prepared by:

**Chris Landsea**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*

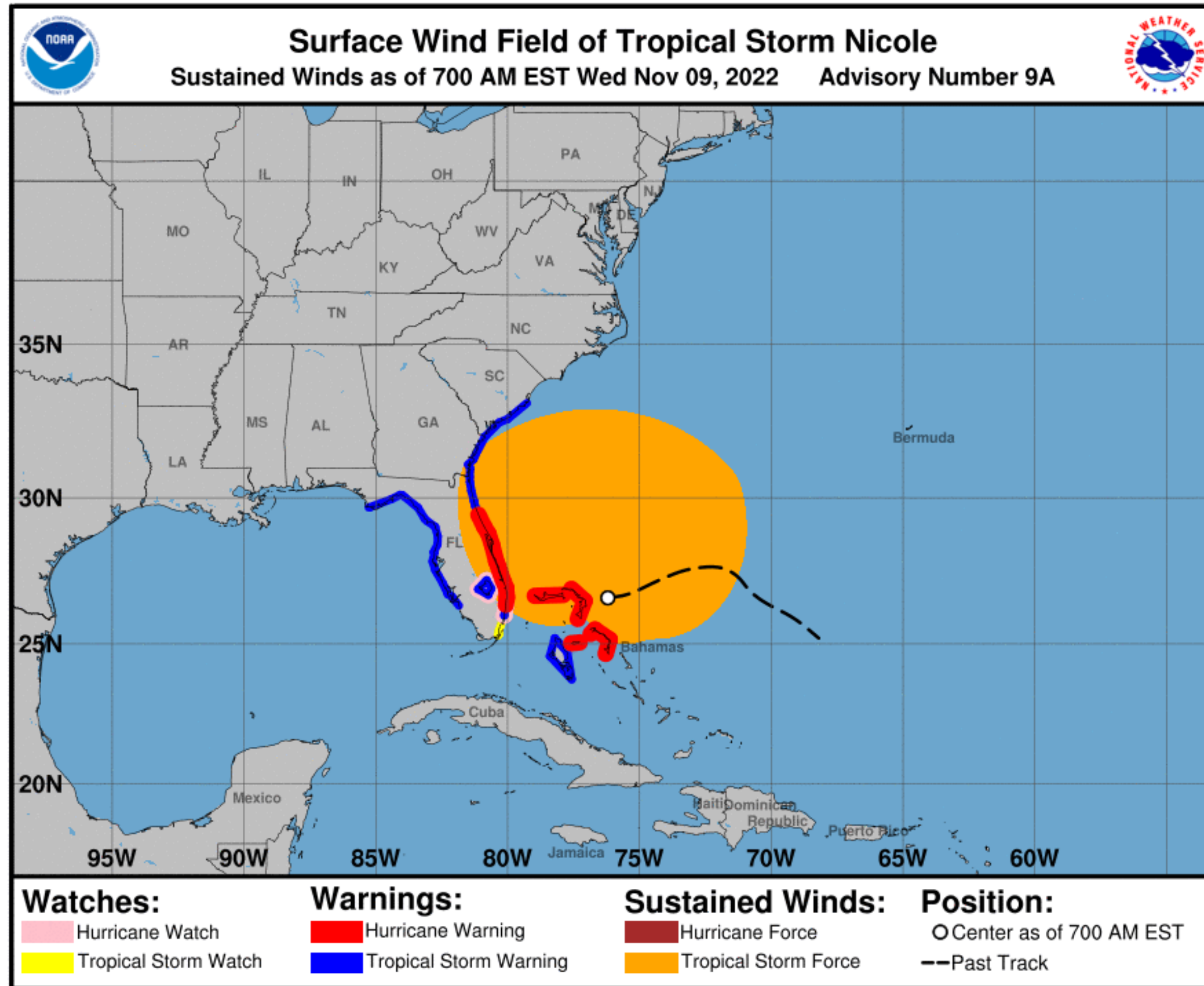


# Situation Overview

## Tropical Storm Nicole



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...NICOLE MOVING TOWARD GREAT ABACO ISLAND IN THE NORTHWESTERN BAHAMAS...

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

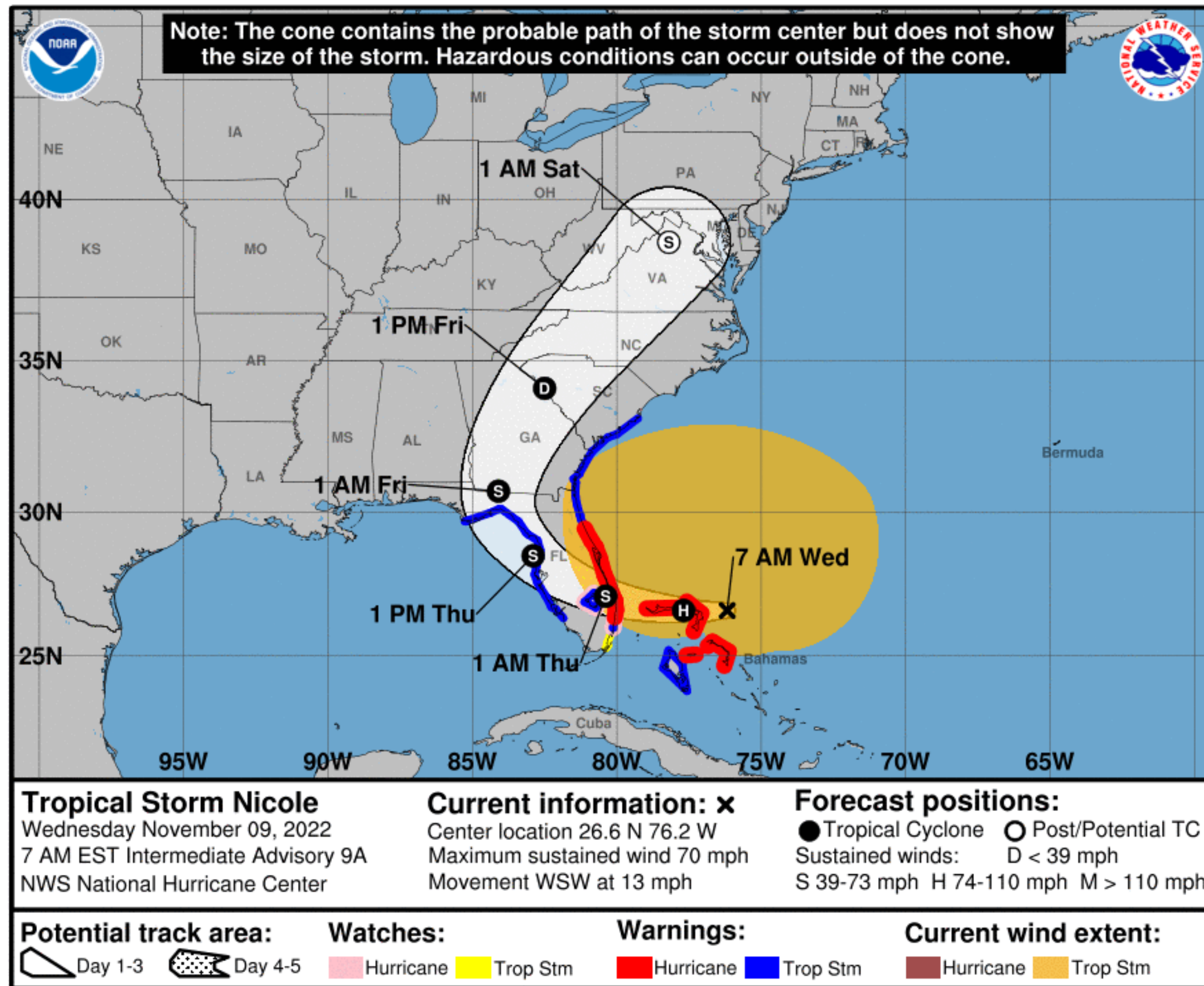
LOCATION...26.6N 76.2W  
ABOUT 60 MI... 100 KM ENE OF GREAT ABACO ISLAND  
MAXIMUM SUSTAINED WINDS...60 KT  
34 KT WIND RADII: 360NE 120SE 60SW 400NW  
PEAK SEAS... 33 FT  
12 FT SEA RADII: 600NE 240SE 210SW 390NW  
PRESENT MOVEMENT...WSW OR 250 DEGREES AT 11 KT  
MINIMUM CENTRAL PRESSURE...985 MB

# 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 W and gradually turn to the N by Thu night.
- Nicole will make landfall as a high end tropical storm or Cat I hurricane tonight in the Ft Pierce-Palm Beach area.
- However, impacts will extend far to the N of the landfall location.
- Nicole will weaken over land on Thursday, however tropical storm conditions are still possible over much of the Florida Gulf coast.
- Current center forecast positions through the next 5 days (if applicable) illustrated by dots
- White swatch of potential track error added to each side of the forecast track through day 3
- Hatched swatch of potential track error added to each side of the forecast track days 4-5

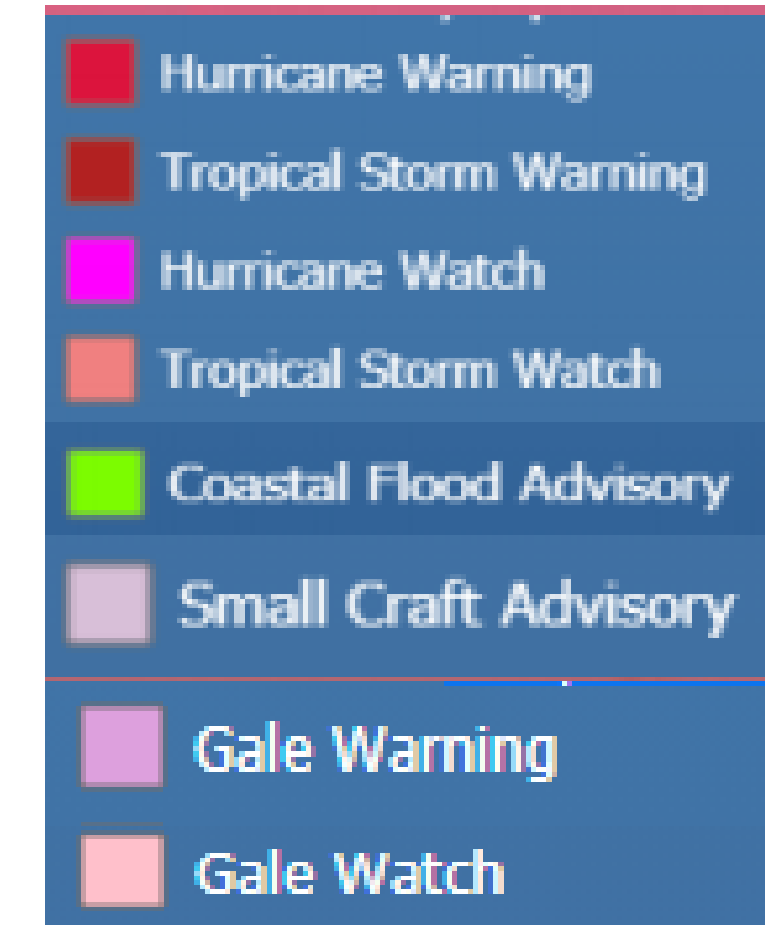
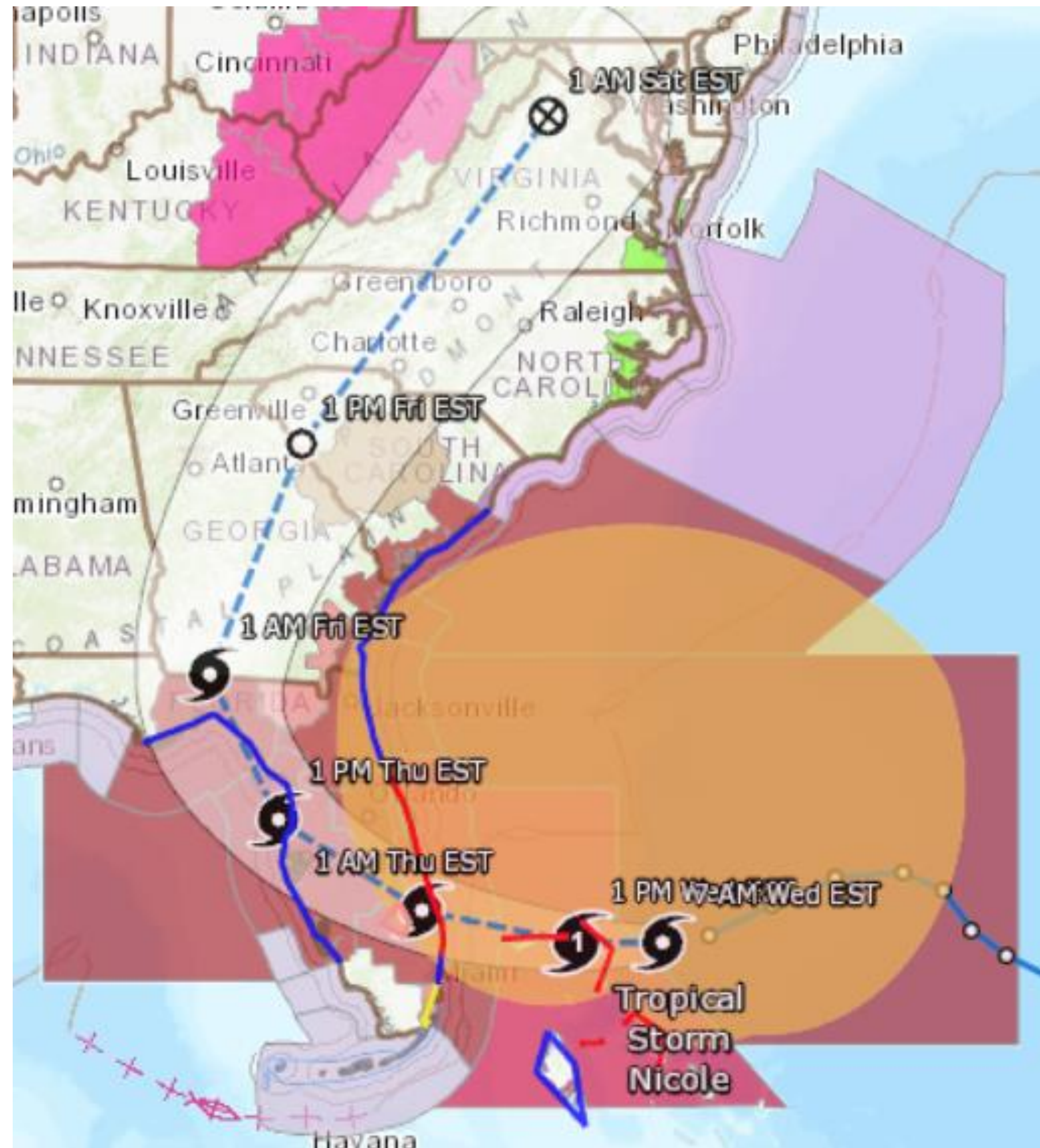
\*\* Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

# Hazards Map

## Tropical Storm Nicole



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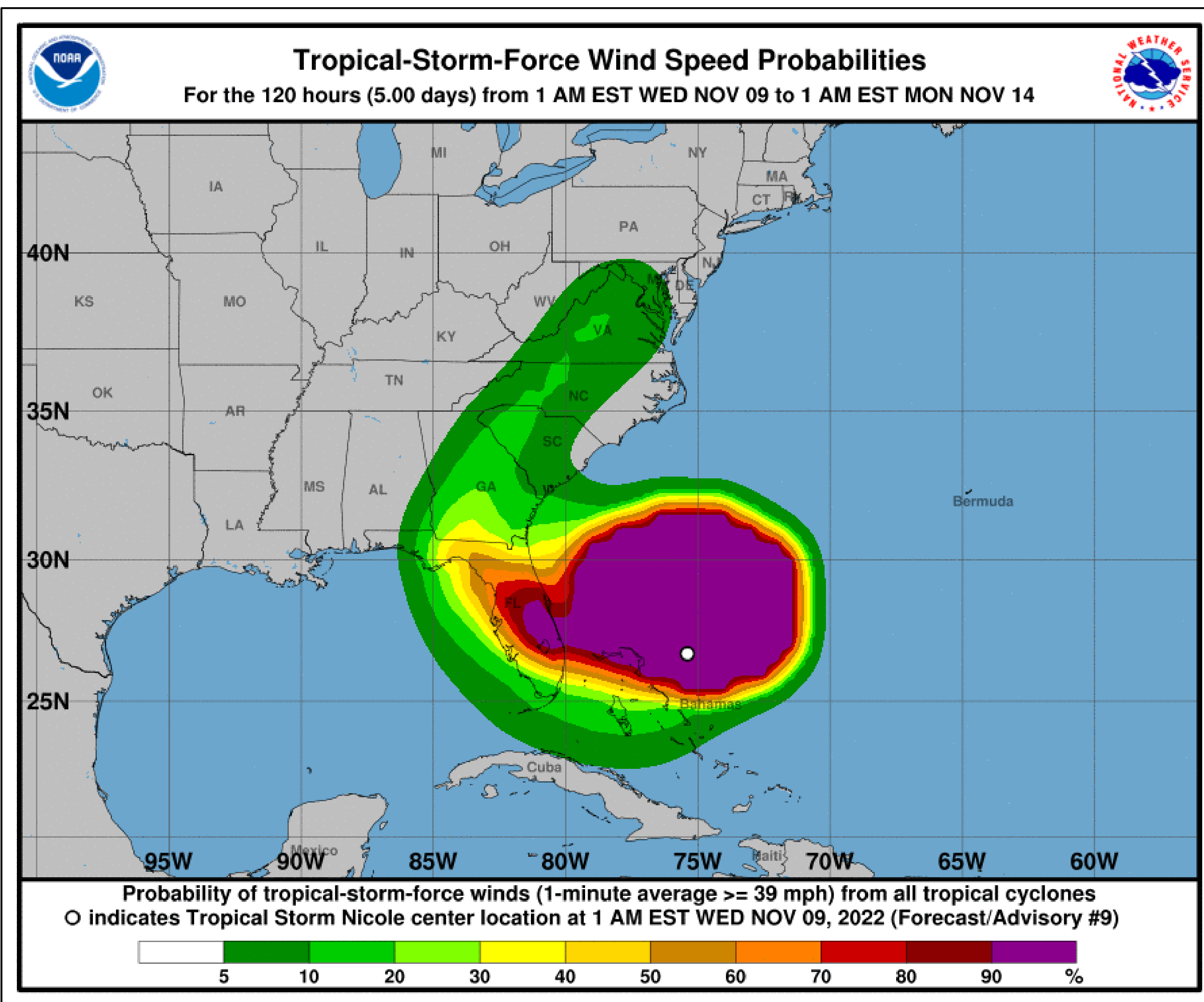
- <https://nowcoast.noaa.gov/>

# T.S. Wind Speed Probabilities

## Tropical Storm Nicole



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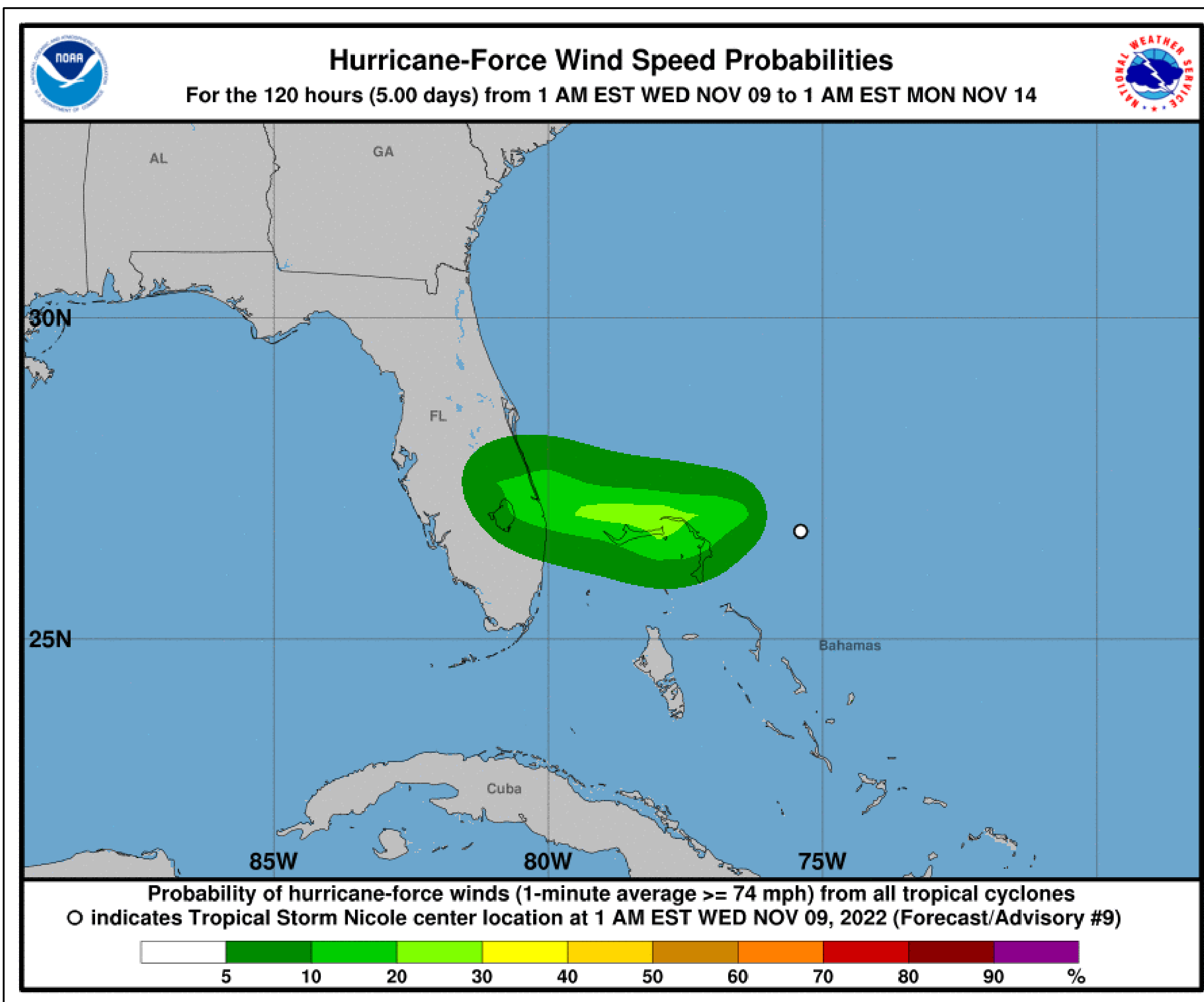
- Miami – 30%
- Ft. Lauderdale – 50%
- Palm Beach – 75%
- Ft. Pierce – 95%
- Patrick AFB – 85%
- Cocoa Beach – 85%
- Daytona Beach – 85%
- Jacksonville – 30%
- Mayport – 30%
- Kings Bay – 25%
  
- St. Marks – 45%
- Cedar Key – 55%
- Tampa – 60%
- Venice – 35%
- Ft. Meyers – 30%
  
- Probabilities of 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.

# Hurricane Wind Speed Probabilities



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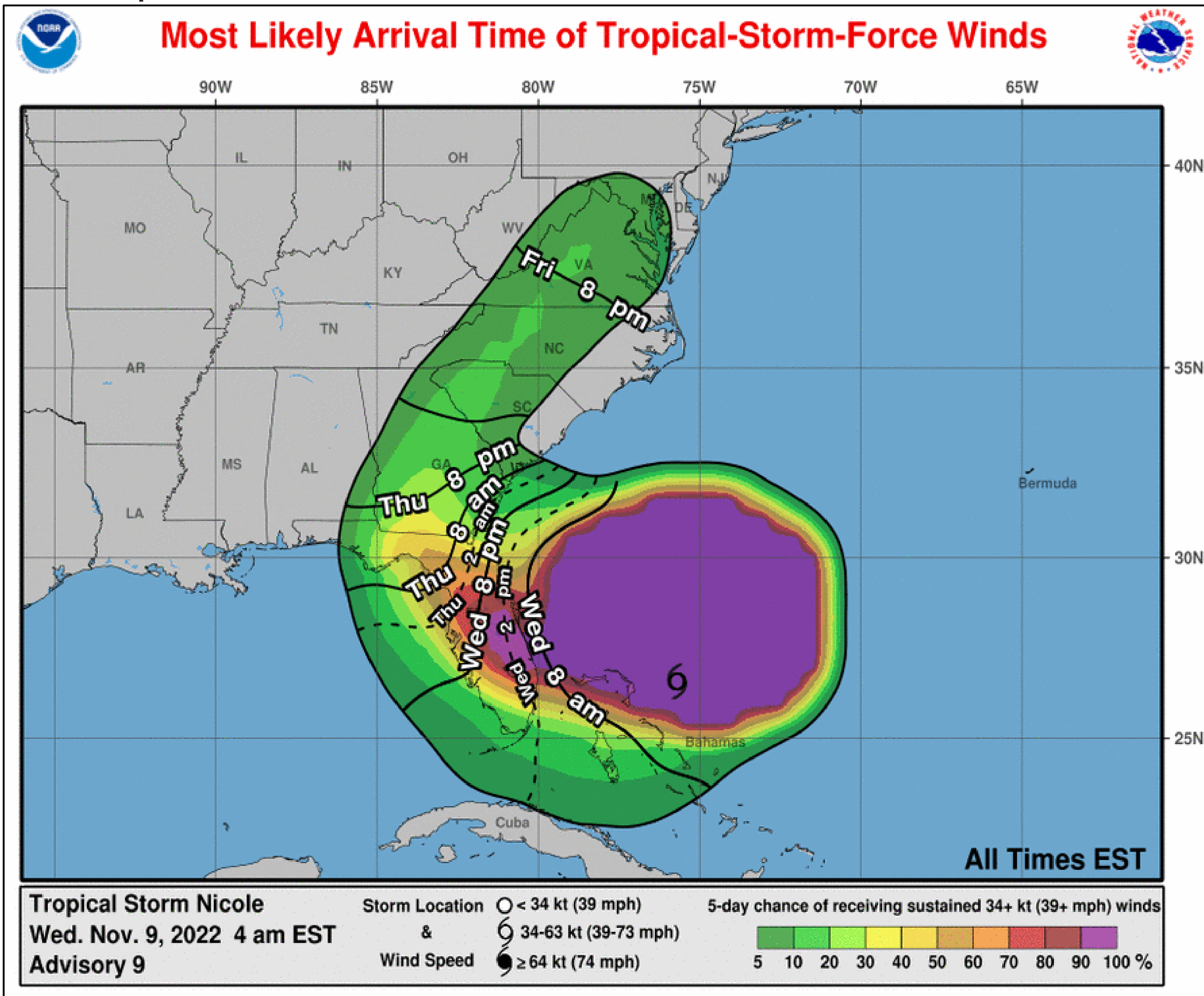
Tropical Storm Nicole



- Palm Beach – 10%
- Ft. Pierce – 10%
- Probabilities of sustained hurricane force winds (64 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.



## Tropical Storm Nicole



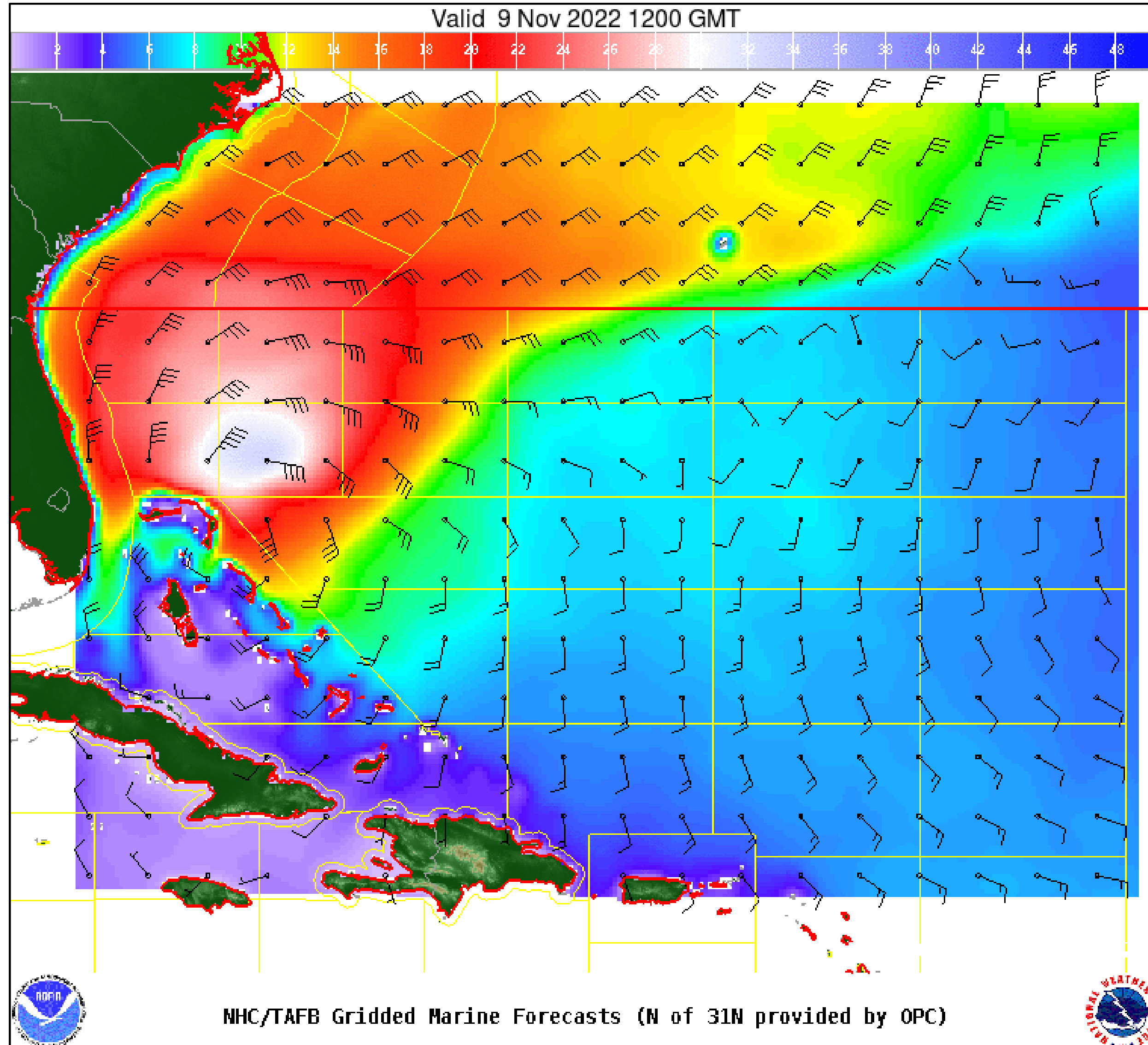
- SE and East Central Florida – Wed morning
- West Florida and NE Florida – Wed afternoon-night
- Georgia – Wed night
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances 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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NWS National Hurricane Center



Current Conditions  
Wednesday, Nov 9, 7 AM EST  
Peak Winds: 60 kt  
Peak Seas: 33 ft

■ Wave heights are in feet



Significant Wave Height (ft)

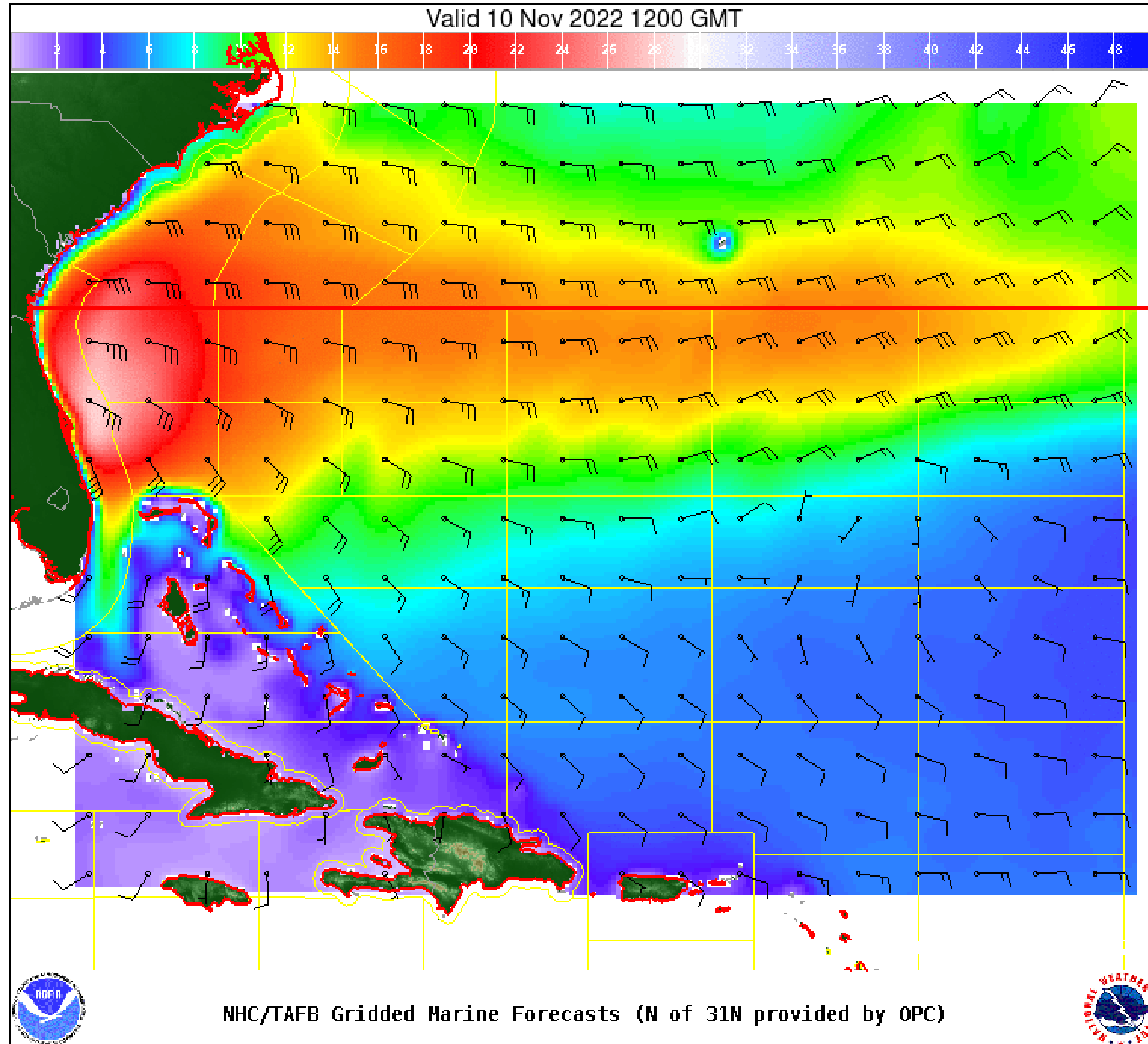


# Wind And Waves

Tropical Storm Nicole



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



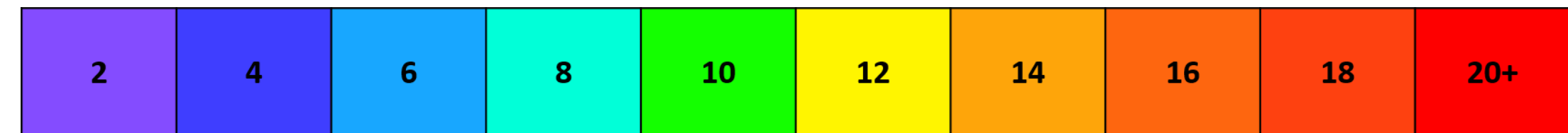
## 24 Hour Forecast

**7 AM EST Thursday, Nov 10**

Peak Winds: 55 kt

Peak Seas: 30 ft

■ Wave heights are in feet



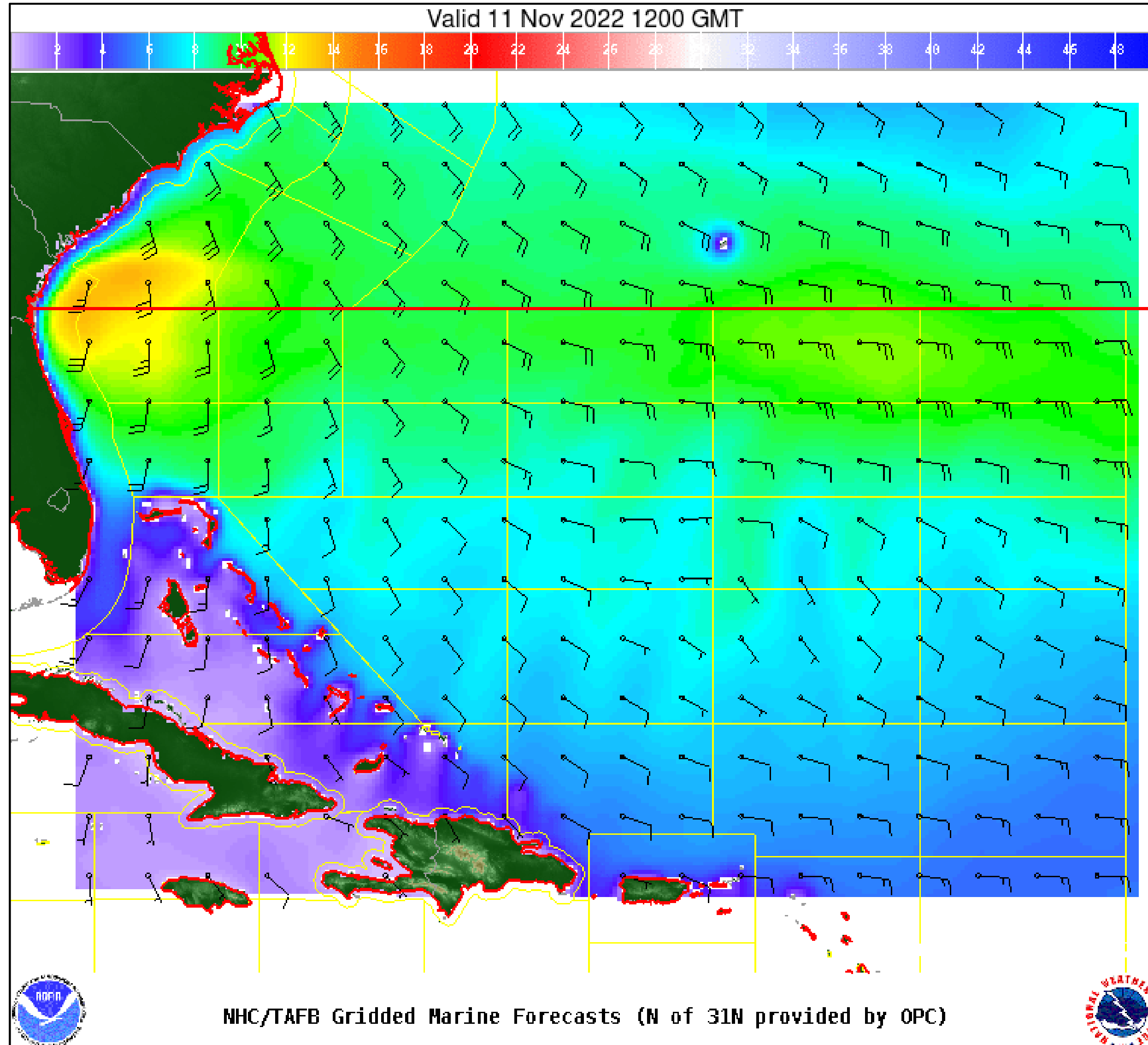
Significant Wave Height (ft)

# Wind And Waves

Tropical Storm Nicole



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NWS National Hurricane Center



48 Hour Forecast

7am EST Friday November 11th

Peak Winds: 40 kt

Peak Seas: 15 ft

■ Wave heights are in feet



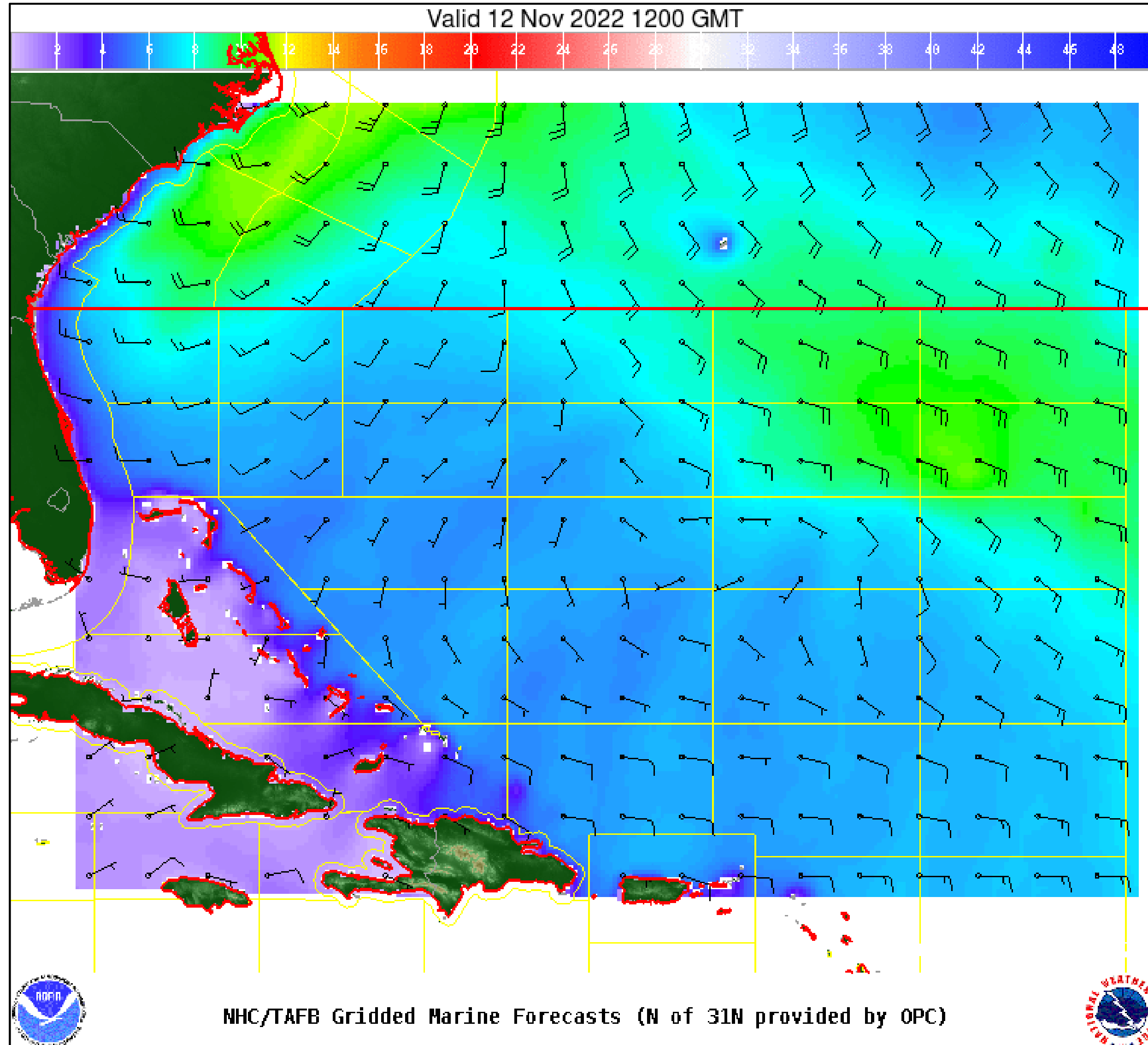
Significant Wave Height (ft)

# Wind And Waves

Tropical Storm Nicole



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NWS National Hurricane Center



72 Hour Forecast

7am EST Saturday November 12th

Peak Winds: 30 kt

Peak Seas: 10 ft

■ Wave heights are in feet



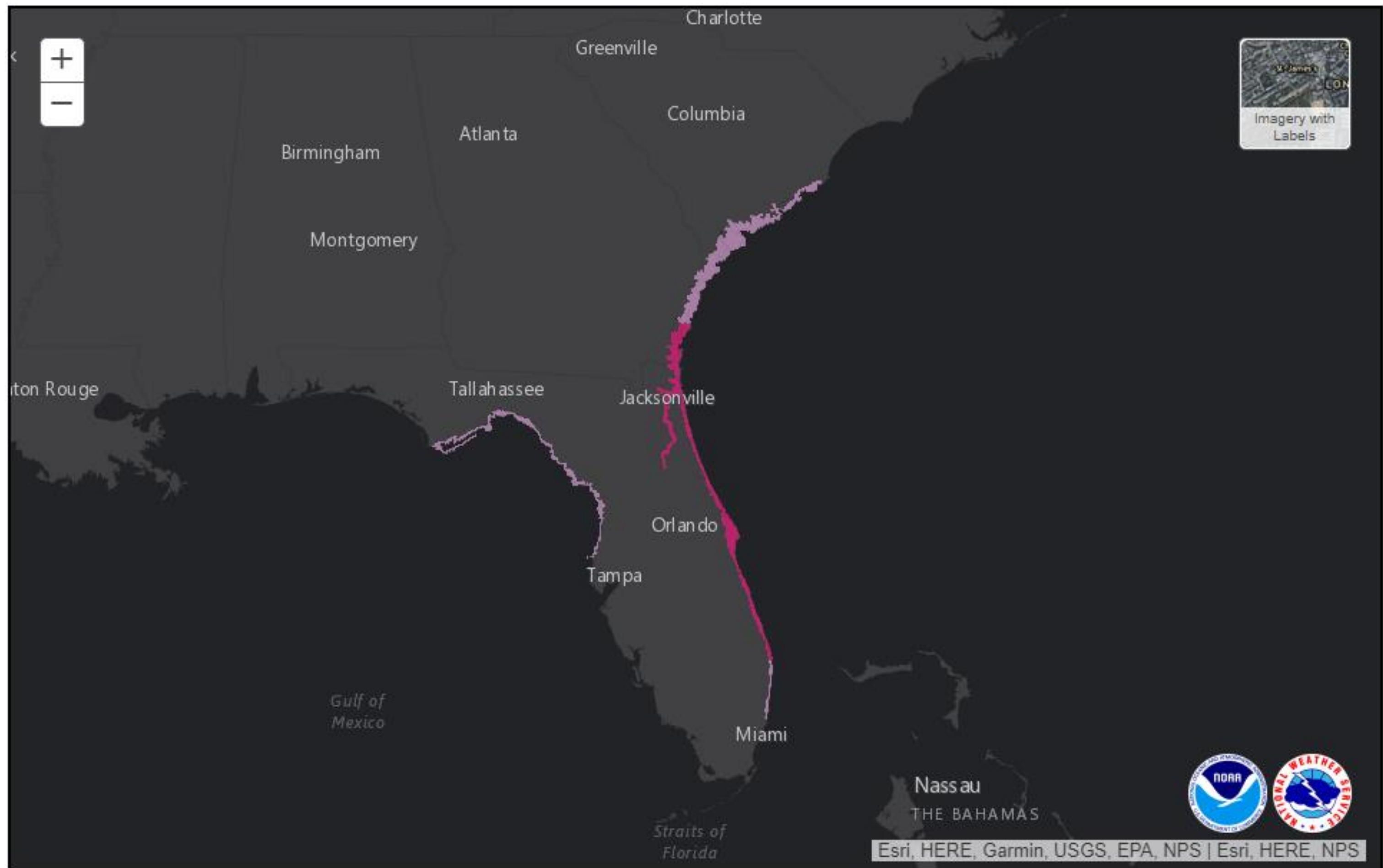
Significant Wave Height (ft)

# Watches and Warnings



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

## Tropical Storm Nicole



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

- \* North Palm Beach Florida to Altamaha Sound Georgia
- \* Mouth of the St. Johns River to Georgetown Florida

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

- South of North Palm Beach to Hallandale Beach Florida
- \* Altamaha Sound Georgia to South Santee River South Carolina
- \* Anclote River Florida to Indian Pass Florida

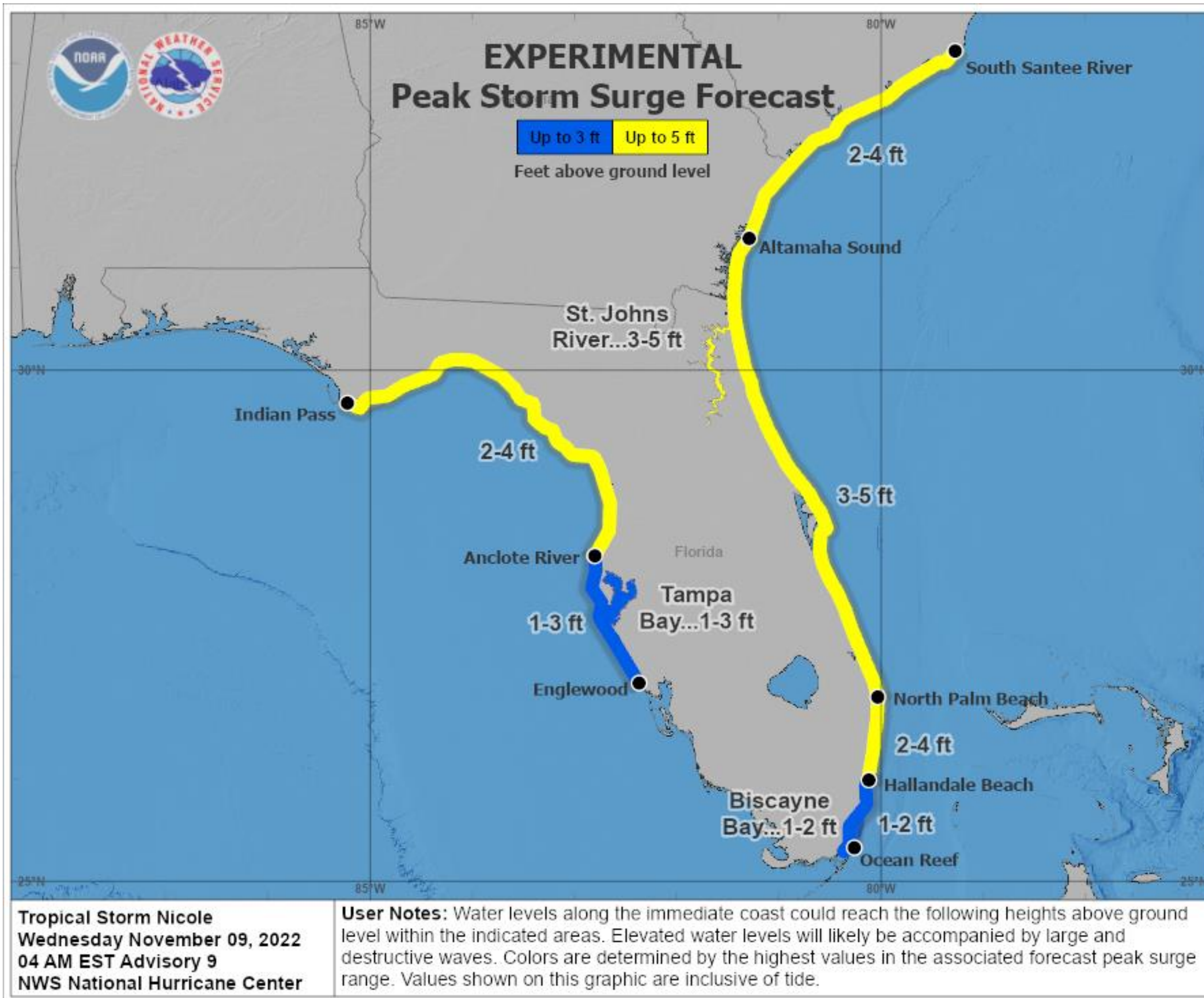
A Storm Surge Warning means there is a **danger of life-threatening inundation** from rising water moving inland from the coastline in the indicated locations.

# Potential Peak Storm Surge



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Tropical Storm Nicole



- 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.

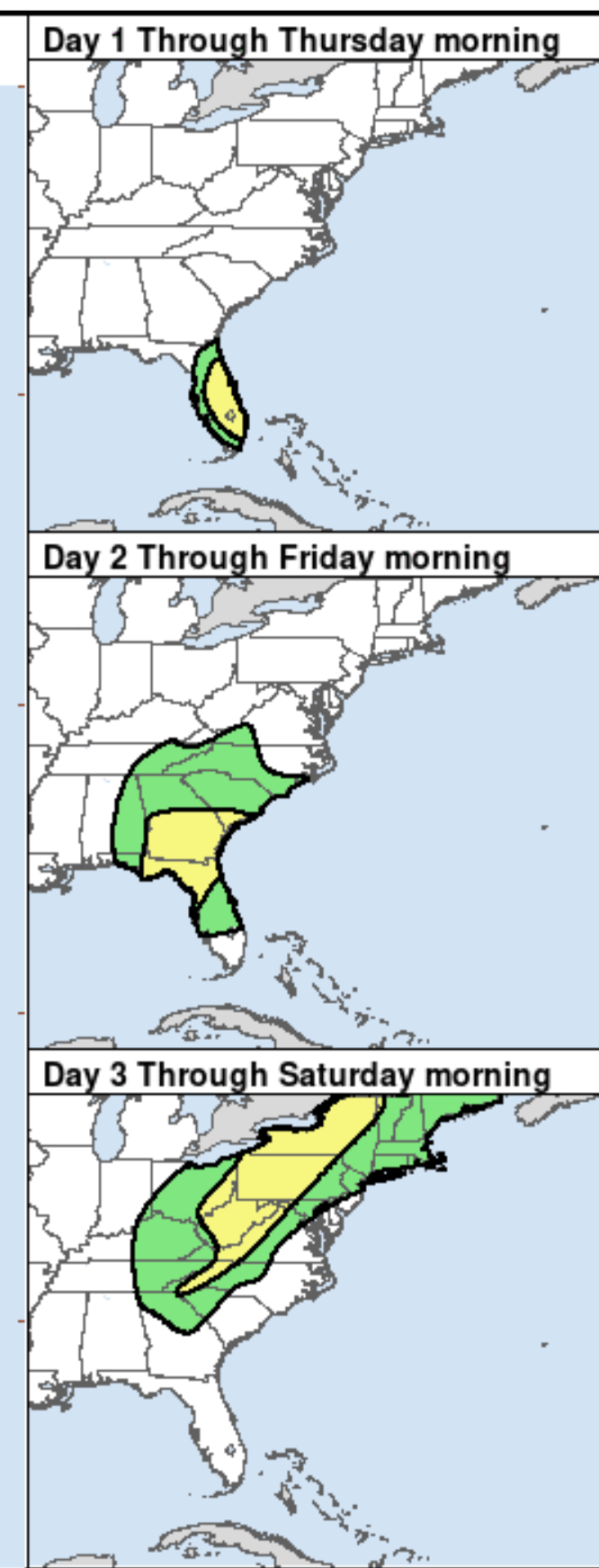
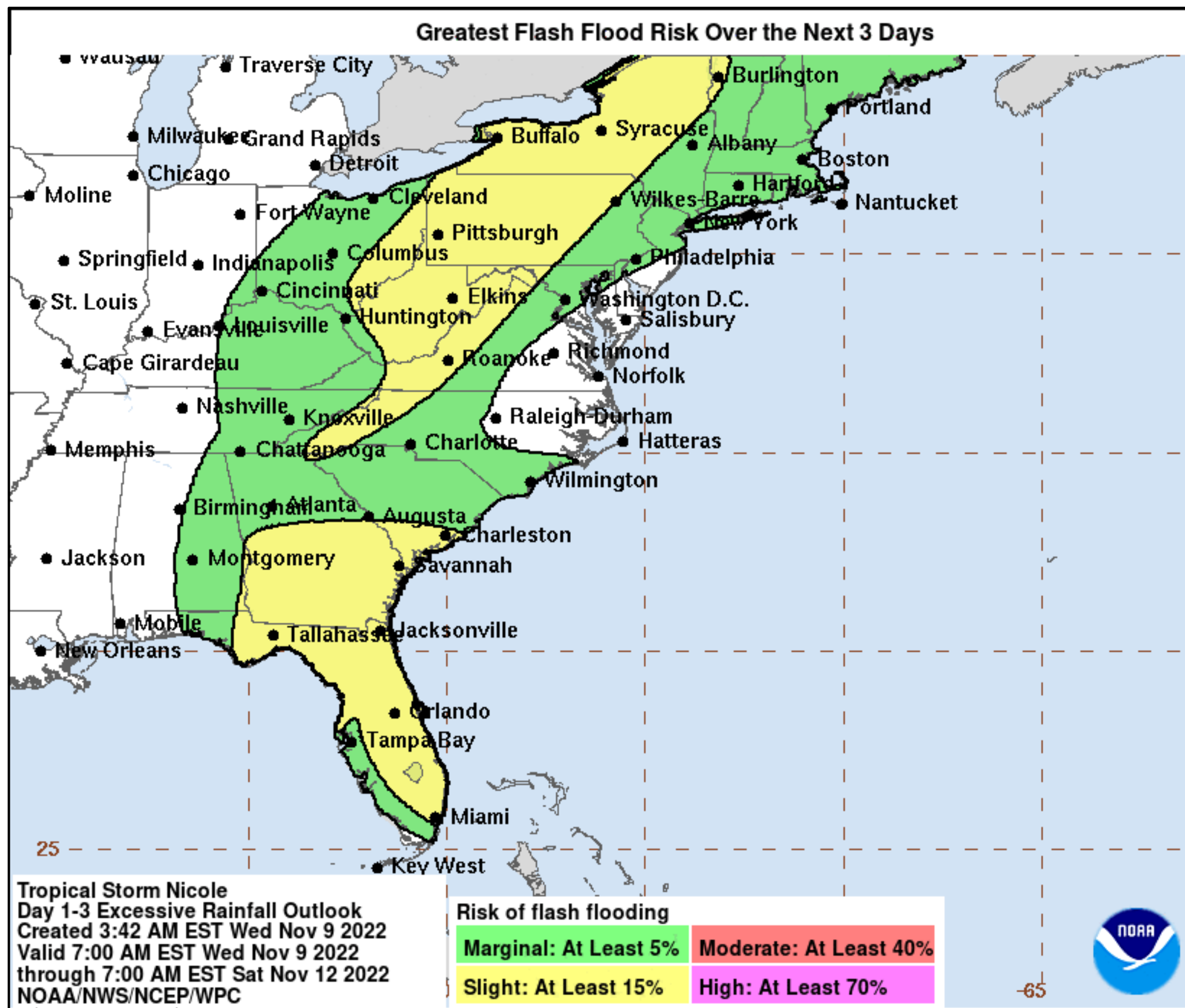
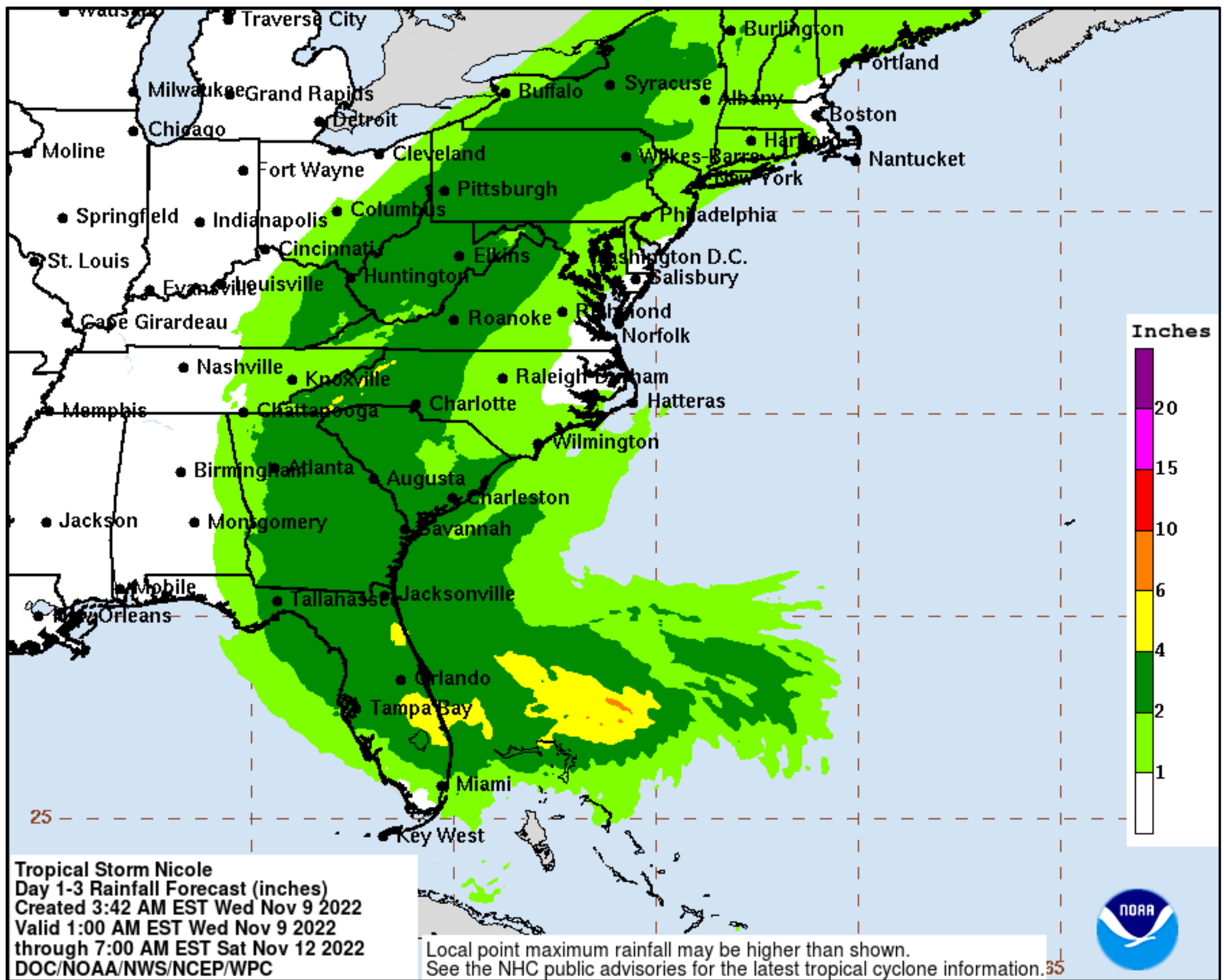
# Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Tropical Storm Nicole

Images from NWS Weather Prediction Center



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

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

Valid through 7 AM Saturday, Nov 12

Valid through 7 AM Saturday, Nov 12

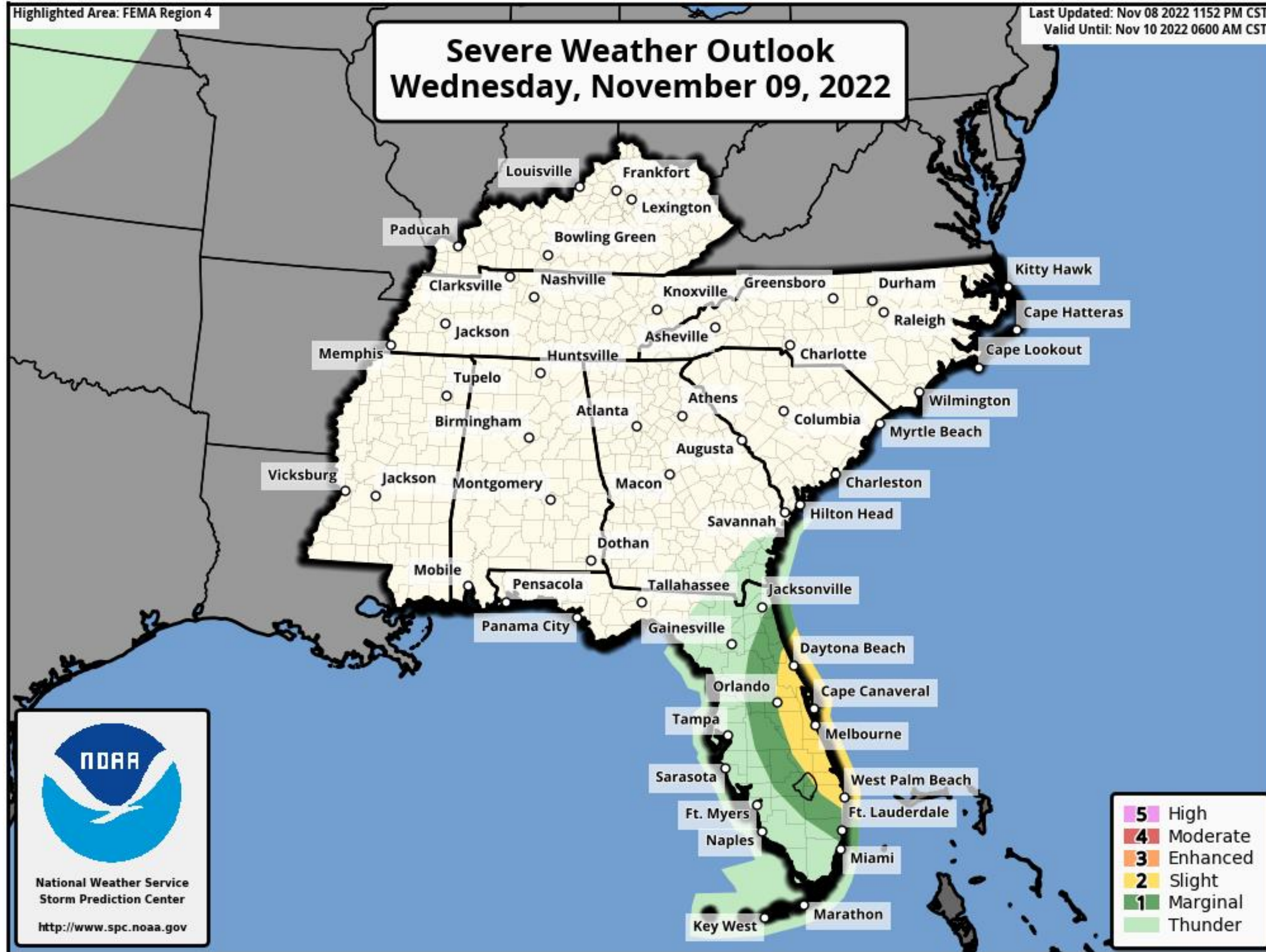
# Tornado Outlook – Day 1

Tropical Storm Nicole

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



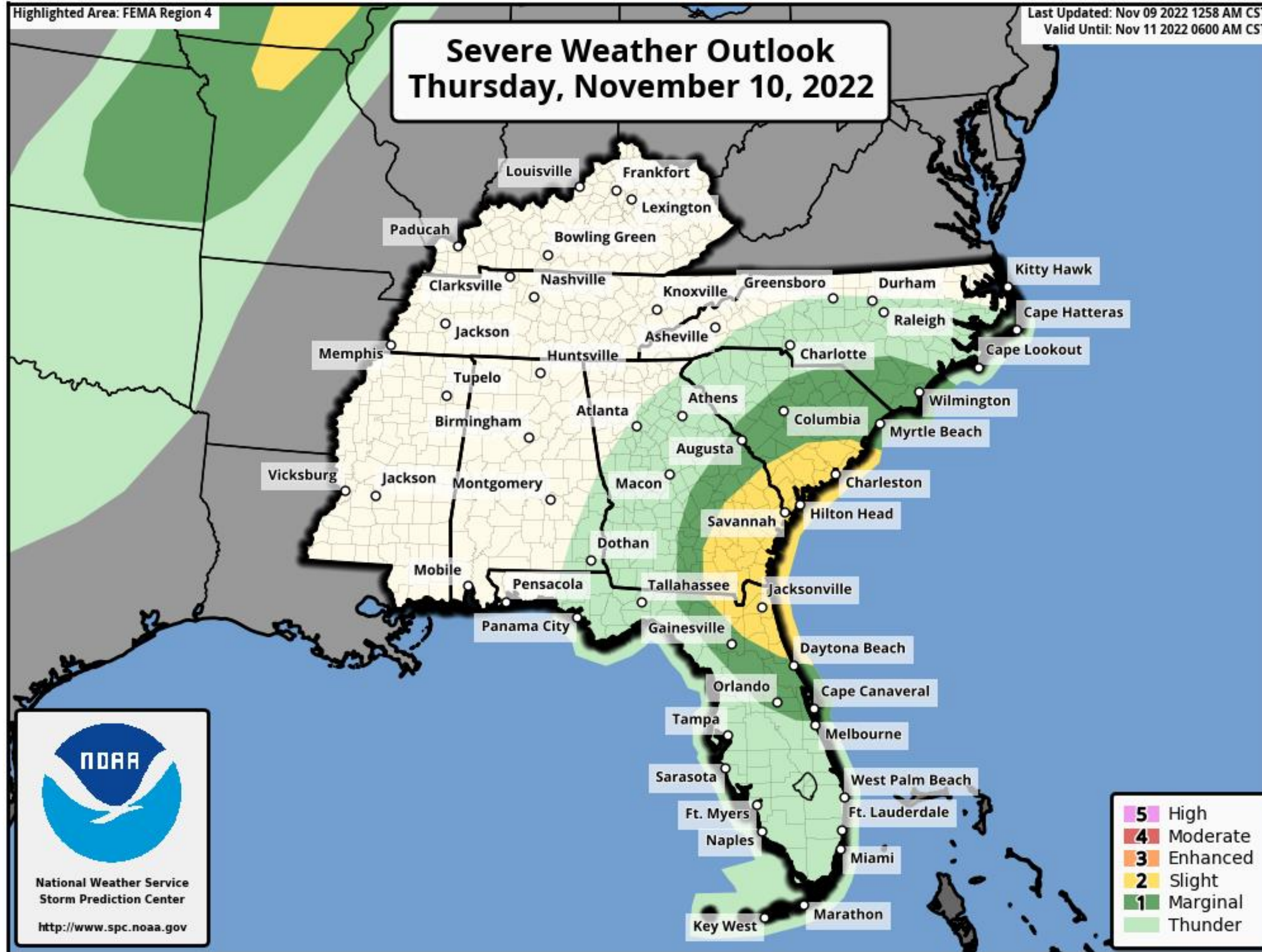
# Tornado Outlook – Day 2

Tropical Storm Nicole

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center







# Key Messages

## Tropical Storm Nicole




Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



### Key Messages for Tropical Storm Nicole

Advisory 9: 4:00 AM EST Wed Nov 09, 2022

1. Hurricane conditions and a dangerous storm surge are expected in portions of the northwestern Bahamas today, where a Hurricane Warning is in effect.
2. Hurricane conditions are expected across portions of the coast of southeast and east-central Florida beginning this evening or tonight, where a Hurricane Warning is in effect. Tropical storm conditions have begun along the east coast of Florida in the warning areas and will spread northward to Georgia and South Carolina later today. Tropical storm conditions are expected to begin along the west coast of Florida within the warning area this evening or tonight.
3. A dangerous storm surge is expected along much of the east coast of Florida and portions of coastal Georgia where a Storm Surge Warning is in effect. The storm surge will be accompanied by large and damaging waves. Residents in the warning area should listen to advice given by local officials.
4. Do not focus on the exact track of Nicole since it is expected to be a large storm with hazards extending well to the north of the center, outside of the forecast cone. These hazards are likely to affect much of the Florida peninsula and portions of the southeast United States.
5. Nicole will produce heavy rainfall today into Thursday across the Florida Peninsula. Flash and urban flooding will be likely across portions of the Florida Peninsula along with possible renewed river rises on the St. Johns River. Isolated flash, urban, and small stream flooding will also be possible on Friday in the Southeast through the southern and central Appalachians, including the Blue Ridge Mountains, and extending northward through west-central Pennsylvania into western New York by Friday night.




**Tropical Storm Nicole**  
Wednesday November 09, 2022  
4 AM EST Advisory 9  
NWS National Hurricane Center

**Current information: x**  
Center location 26.5 N 75.7 W  
Maximum sustained wind 70 mph  
Movement WSW at 13 mph

**Forecast positions:**  
● Tropical Cyclone ○ Post-Potential TC  
Sustained winds: D < 39 mph  
S 39-73 mph H 74-110 mph M > 110 mph

**Potential track area:** Day 1-3 Day 4-5  
**Watches:** Hurricane Trop Stm  
**Warnings:** Hurricane Trop Stm  
**Current wind extent:** Hurricane Trop Stm



**Most Likely Arrival Time of Tropical-Storm-Force Winds**

**Tropical Storm Nicole**  
Wed. Nov. 9, 2022 4 am EST  
Advisory 9

Storm Location ○ = 34 kt (39 mph)  
● = 34-63 kt (39-73 mph)  
● = 64 kt (74 mph)

9-day chance of receiving sustained 34+ kt (39+ mph) winds  
5 10 20 30 40 50 60 70 80 90 100 %

**For more information go to [hurricanes.gov](https://hurricanes.gov)**

### IMPACTS FOR D7 (through next 5 days)

**Winds – High**

**Storm Surge – Moderate**

**Rainfall/Flash Flooding – Moderate**

**Tornadoes – Low**

**Waves - High**

- Expect tropical storm conditions across a large area of the western Atlantic.
- Hurricane conditions will be localized.
- Seas currently 33 ft, expected to subside by Saturday



# TROPICAL STORM NICOLE BRIEFING

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

*The Next Briefing Will Be:  
Wednesday 9:00 AM EST*

*You can always find get the latest graphics and information for this storm at [www.hurricanes.gov](http://www.hurricanes.gov)*



NHC\_TAFB

[www.nhc.noaa.gov](http://www.nhc.noaa.gov)