

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – Moderate

Rainfall/Flash Flooding – Moderate

Tornadoes – Low

Waves – High

TROPICAL STORM NICOLE BRIEFING

4:00 PM EST

Tuesday, November 8, 2022

Prepared by:

Dylan Flynn

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

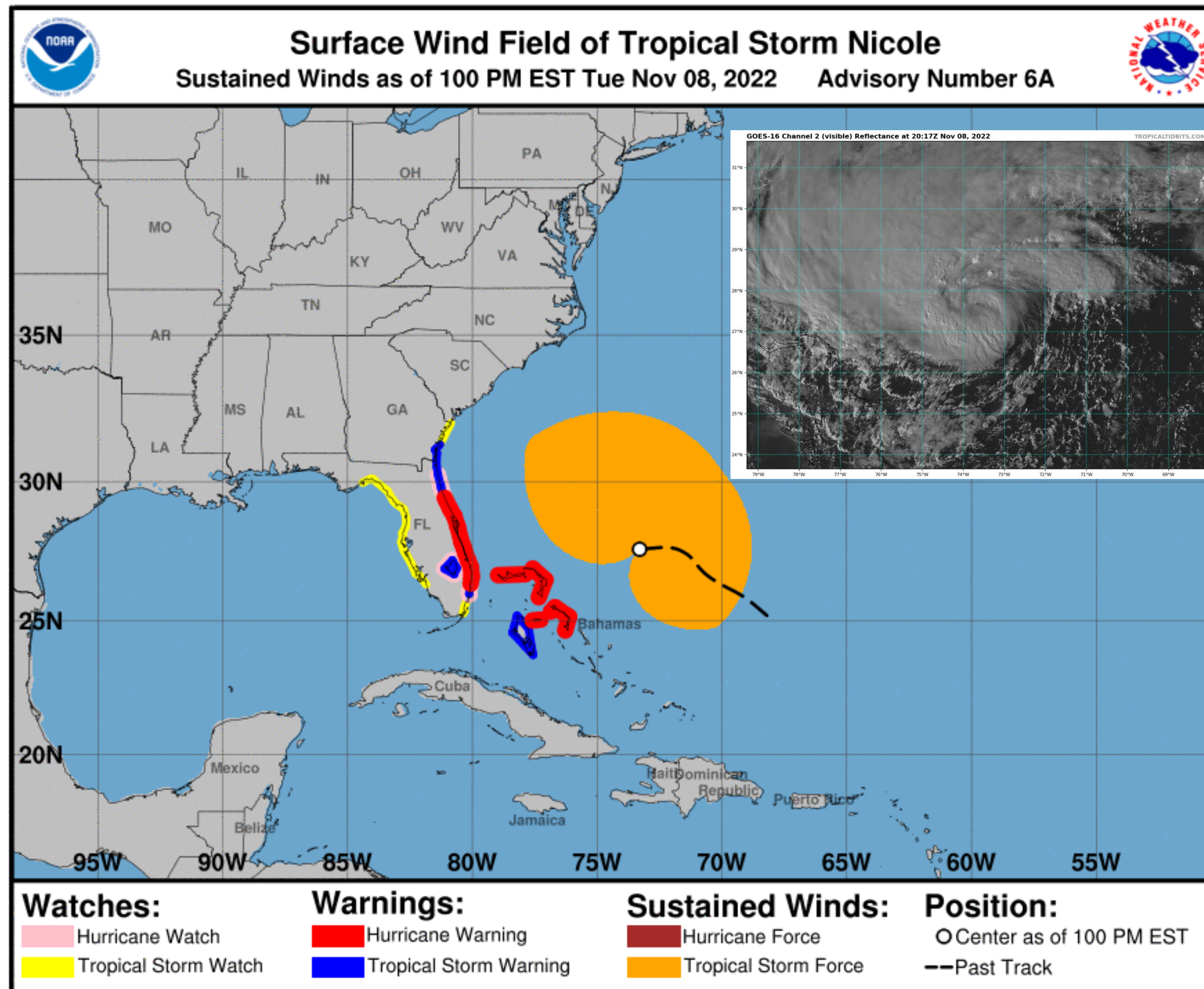
www.nhc.noaa.gov

Situation Overview

Tropical Storm Nicole



Tropical Analysis and Forecast Branch
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**...NICOLE STRENGTHENING AS IT MOVES
TOWARD THE NORTHWESTERN
BAHAMAS...**

**SUMMARY OF 100 PM EST...1800
UTC...INFORMATION**

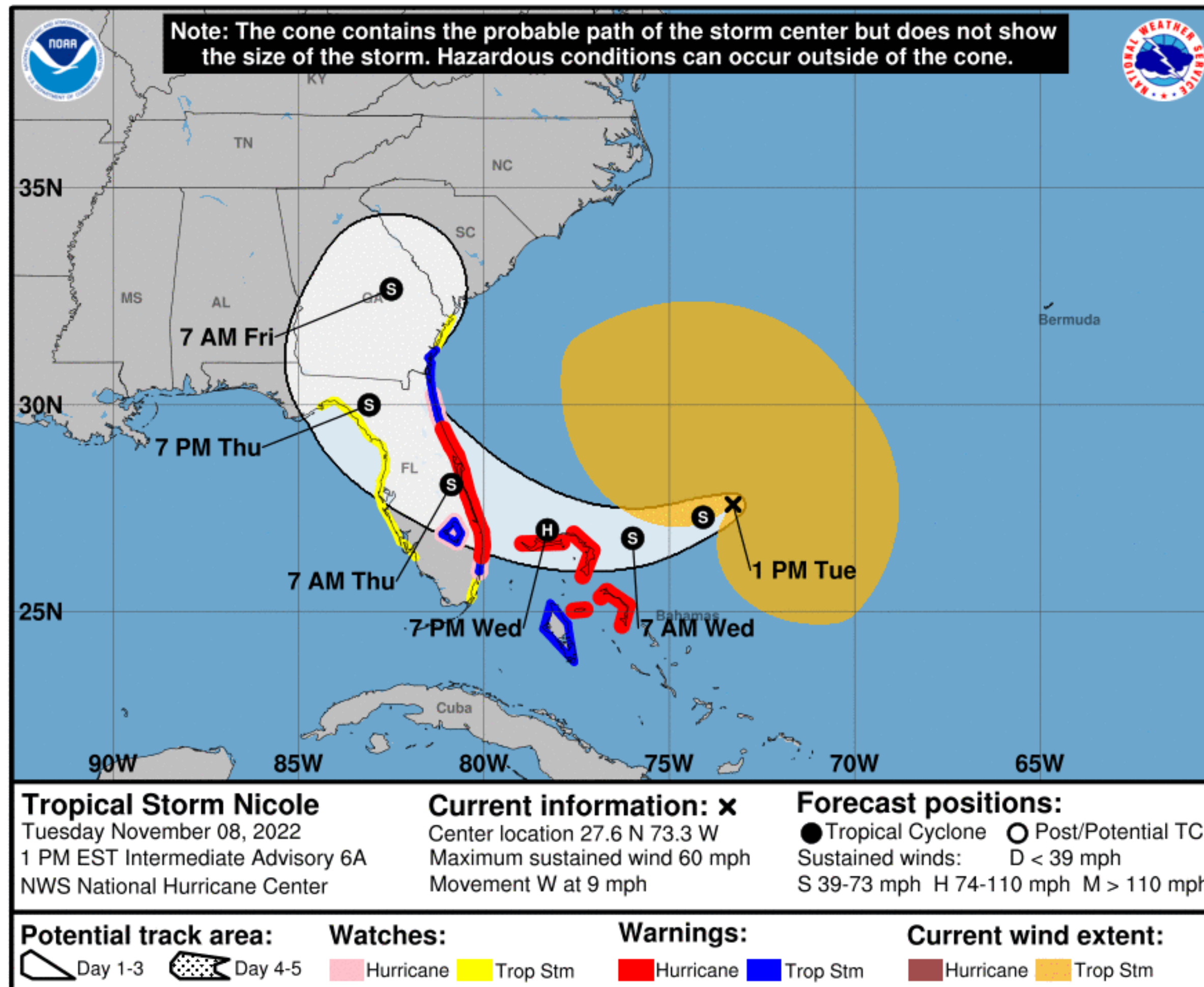
LOCATION...27.6N 73.3W
ABOUT 270 NM NE OF THE NW BAHAMAS
ABOUT 365 NM E OF WEST PALM BEACH
MAXIMUM SUSTAINED WINDS...50 KT
34 KT WIND RADII: 240NE 240SE 0SW 330NW
PEAK SEAS... 23 FT
12 FT SEA RADII: 480NE 330SE 240SW 390NW
PRESENT MOVEMENT...W AT 8 KT
MINIMUM CENTRAL PRESSURE...992 MB

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 WSW through the Atlantic, reaching the northern Bahamas by mid-day Wednesday. Nicole will then turn back to the NW, approaching the Florida east coast overnight Wednesday or Thursday morning.
- Gradual strengthening is anticipated now that Nicole has transitioned to a regular tropical storm. Expect a high end tropical storm or low-end hurricane at landfall.
- The landfall location has shifted slightly north along the central Florida coast. Expect tropical storm conditions near and well north 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 swath of potential track error added to each side of the forecast track through day 3
- Hatched swath of potential track error added to each side of the forecast track days 4-5

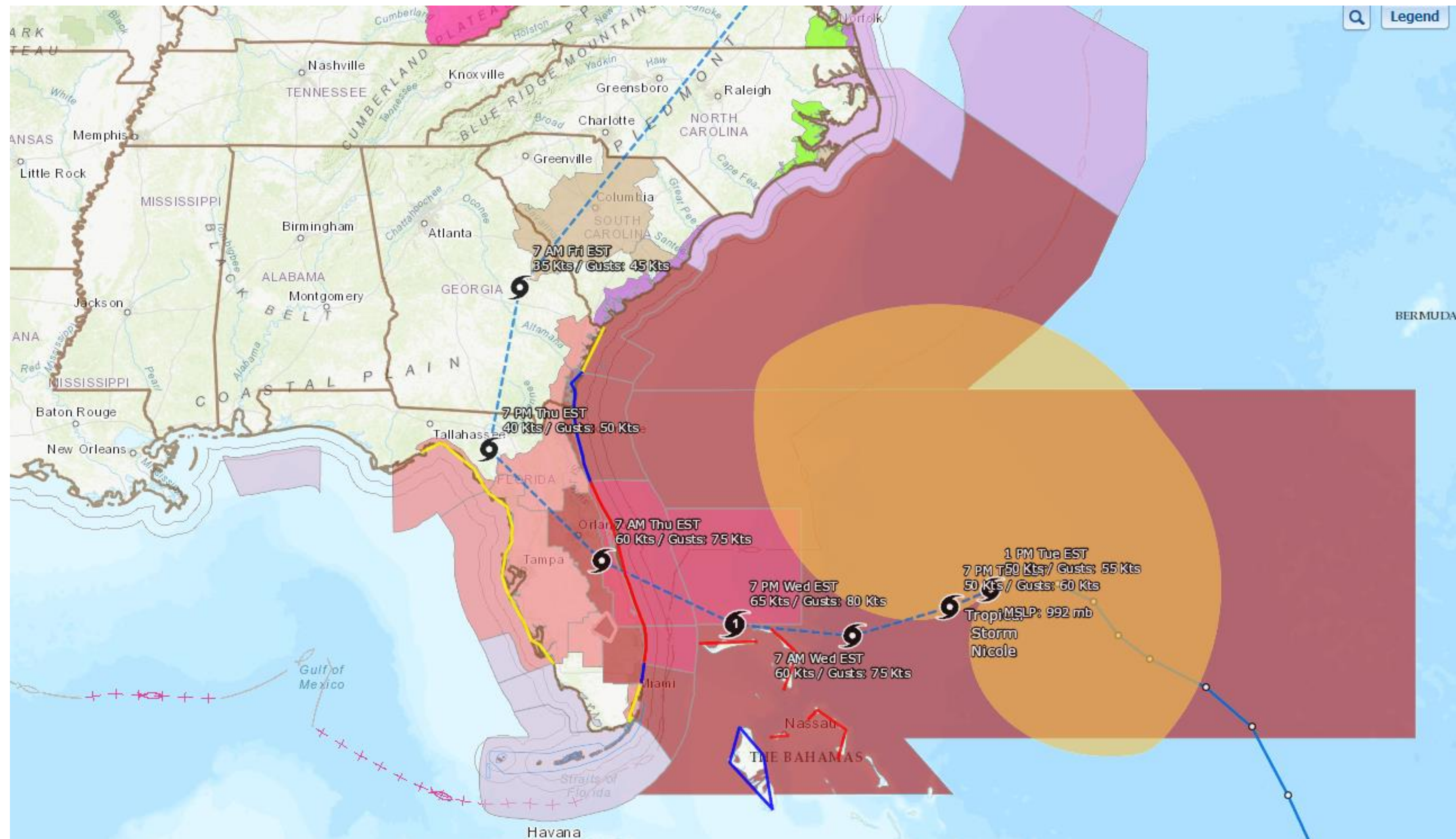
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Nicole



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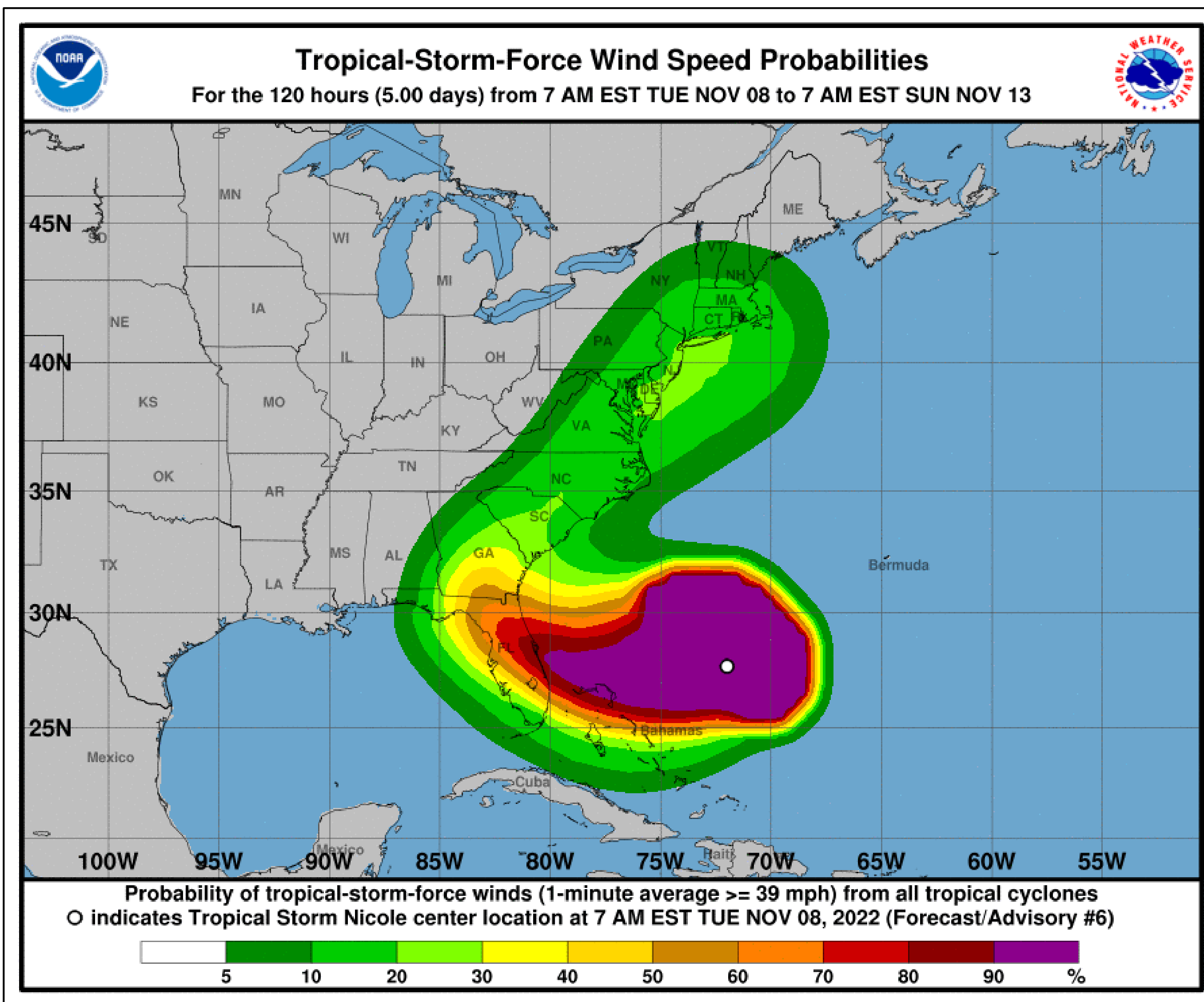
<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Nicole



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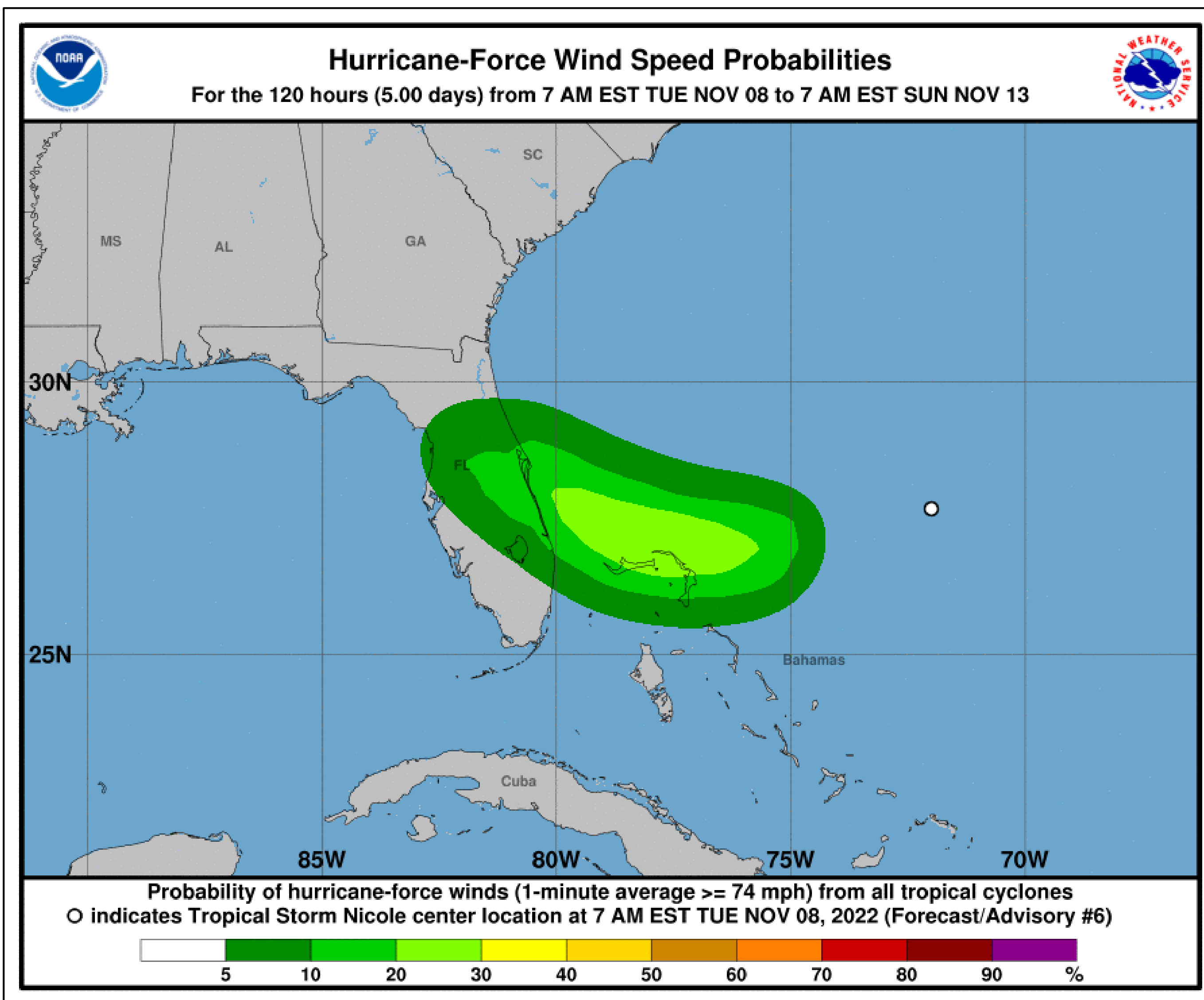
- Panama City – 15% (-5%)
 - Apalachicola – 25%
 - St. Marks – 40% (+5%)
 - Cedar Key – 60% (+5%)
 - Tampa – 55% (+5)
 - Venice – 30%
 - Ft. Meyers – 25%
 - Naples – 25% (+5%)
 - Homestead – 20% (+5%)
 - Miami – 25%
 - Ft. Lauderdale – 45%
 - Palm Beach – 70% (+5%)
 - Ft. Pierce – 85% (+5%)
 - Patrick AFB – 85%
 - Cocoa Beach – 85% (+5%)
 - Daytona Beach – 75% (+5%)
 - Jacksonville – 55% (+5%)
 - Mayport – 60% (+5%)
 - Waycross – 45% (+5%)
 - Kings Bay – 55% (+5%)
 - Savannah – 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

Tropical Storm Nicole



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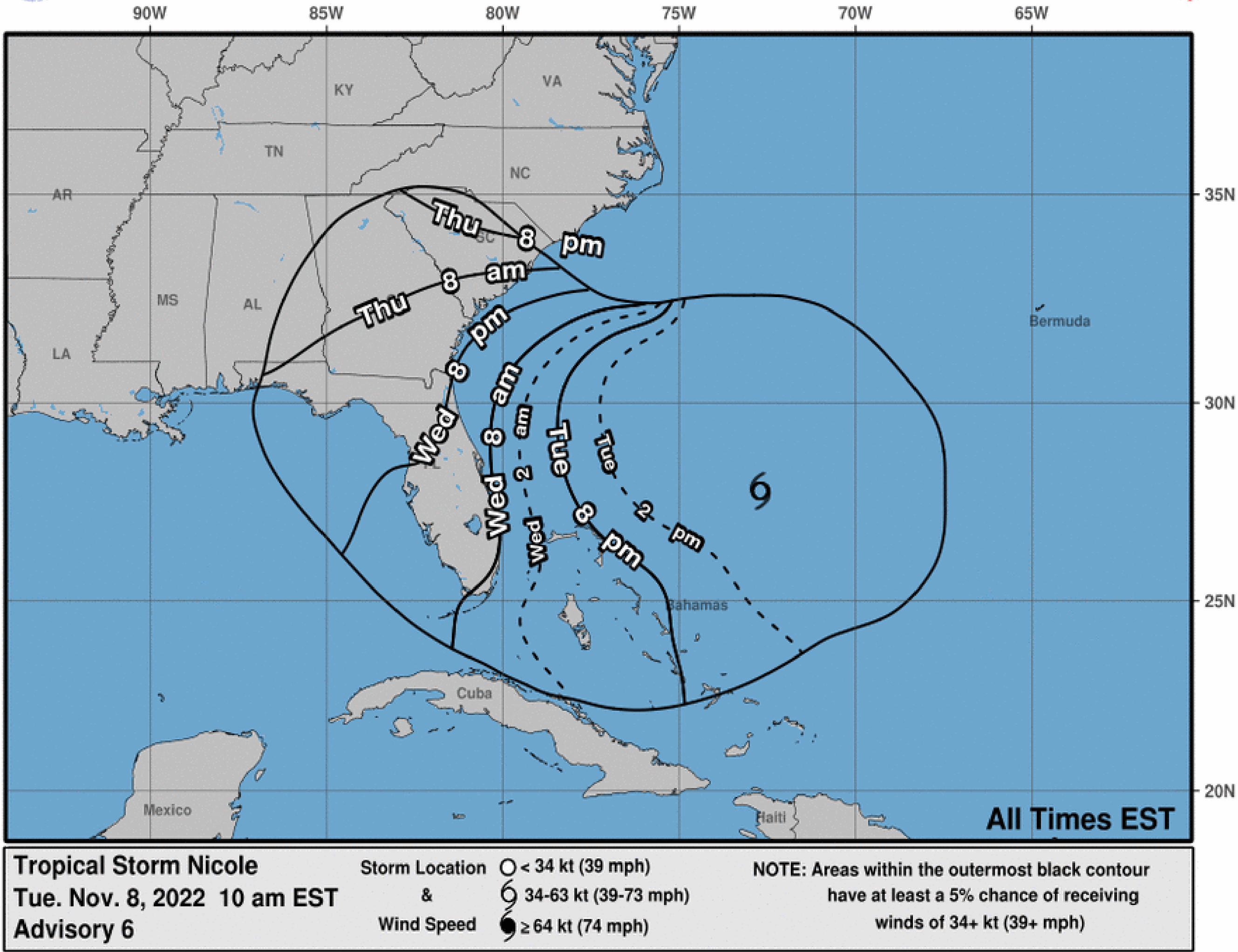


- Panama City – 1%
 - Apalachicola – 2%
 - St. Marks – 2%
 - Cedar Key – 6% (+1%)
 - Tampa – 5% (+2%)
 - Venice – 2%
 - Ft. Meyers – 4% (+1%)
 - Naples – 0% (-3%)
 - Ft. Lauderdale – 2%
 - Palm Beach – 6% (+1%)
 - Ft. Pierce – 15% (+6%)
 - Patrick AFB – 15% (+5%)
 - Cocoa Beach – 15% (+5%)
 - Daytona Beach – 7% (+3%)
 - Jacksonville – 2% (+1%)
 - Mayport – 2%
 - Waycross – 0% (-5%)
 - Kings Bay – 2%
- 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%
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Tropical Storm Nicole

0-3 Day Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



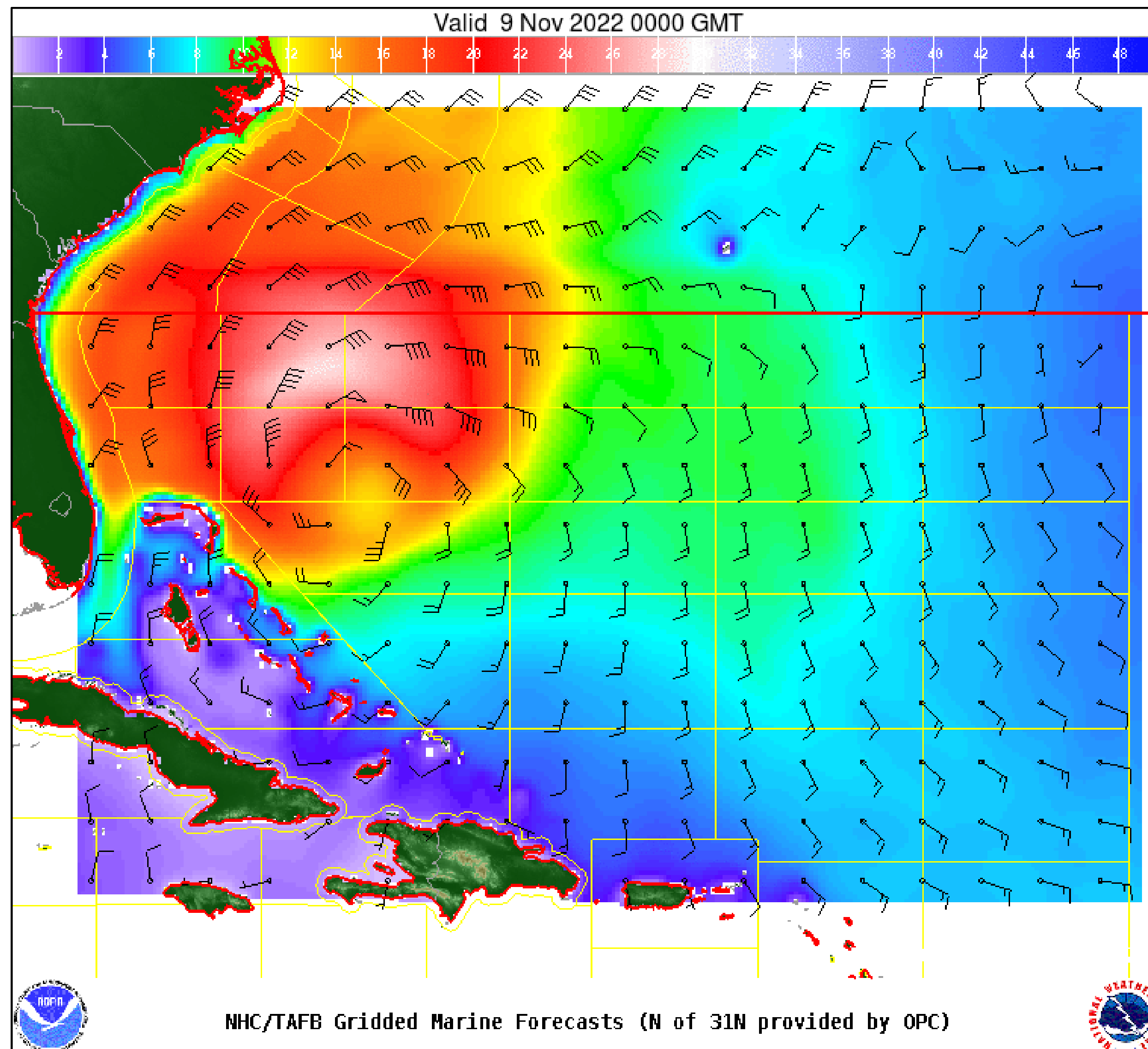
- SE and East Central Florida – Wed morning
- West and NE Florida – Wed afternoon-night
- Georgia – Wed night
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
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Wind And Waves

Tropical Storm Nicole



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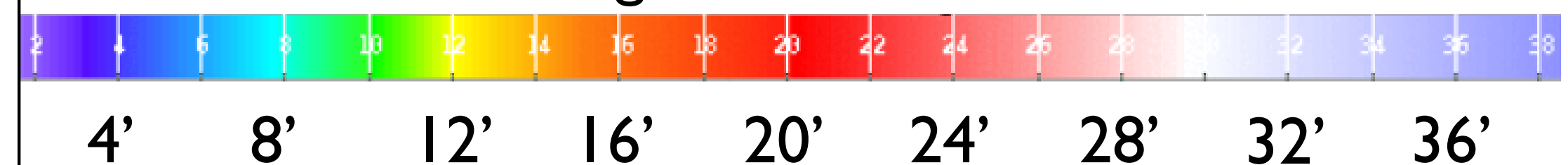
Current Conditions

Tuesday, Nov 8, 7 PM EST

Peak Winds: 50 kt

Peak Seas: 23 ft

■ Wave heights are in feet

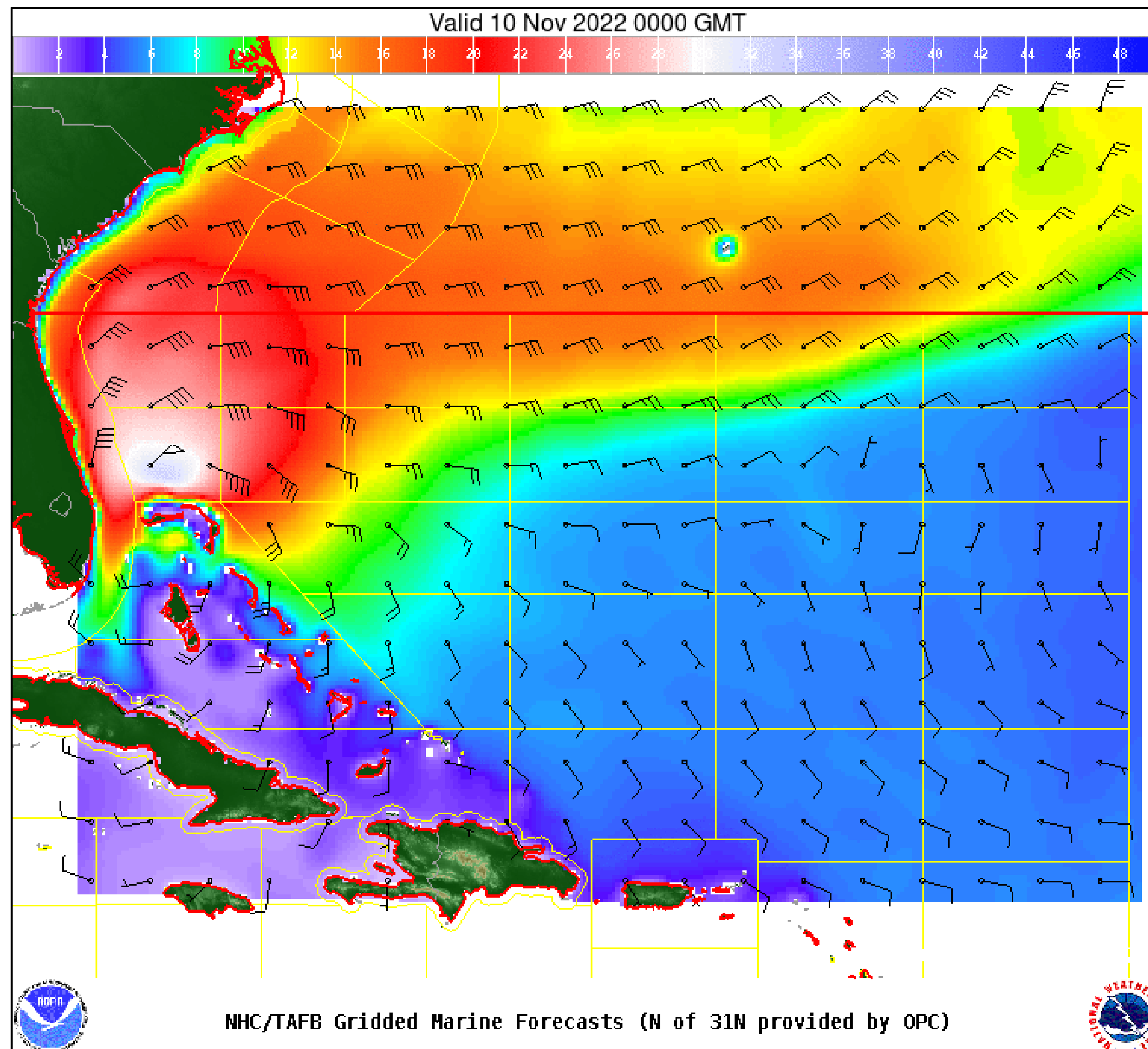


Wind And Waves

Tropical Storm Nicole



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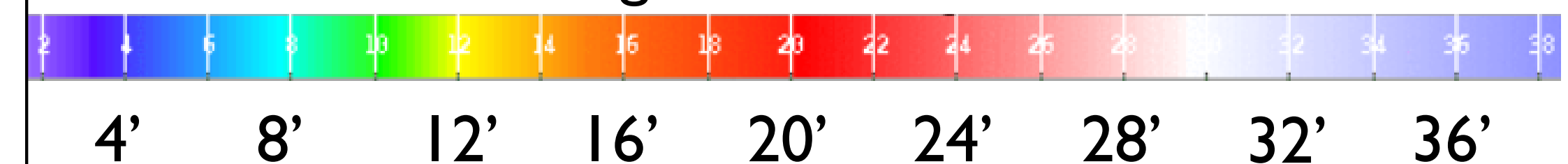
24 Hour Forecast

Wednesday, Nov 9, 7 PM EST

Peak Winds: 65 kt

Peak Seas: 34 ft

■ Wave heights are in feet

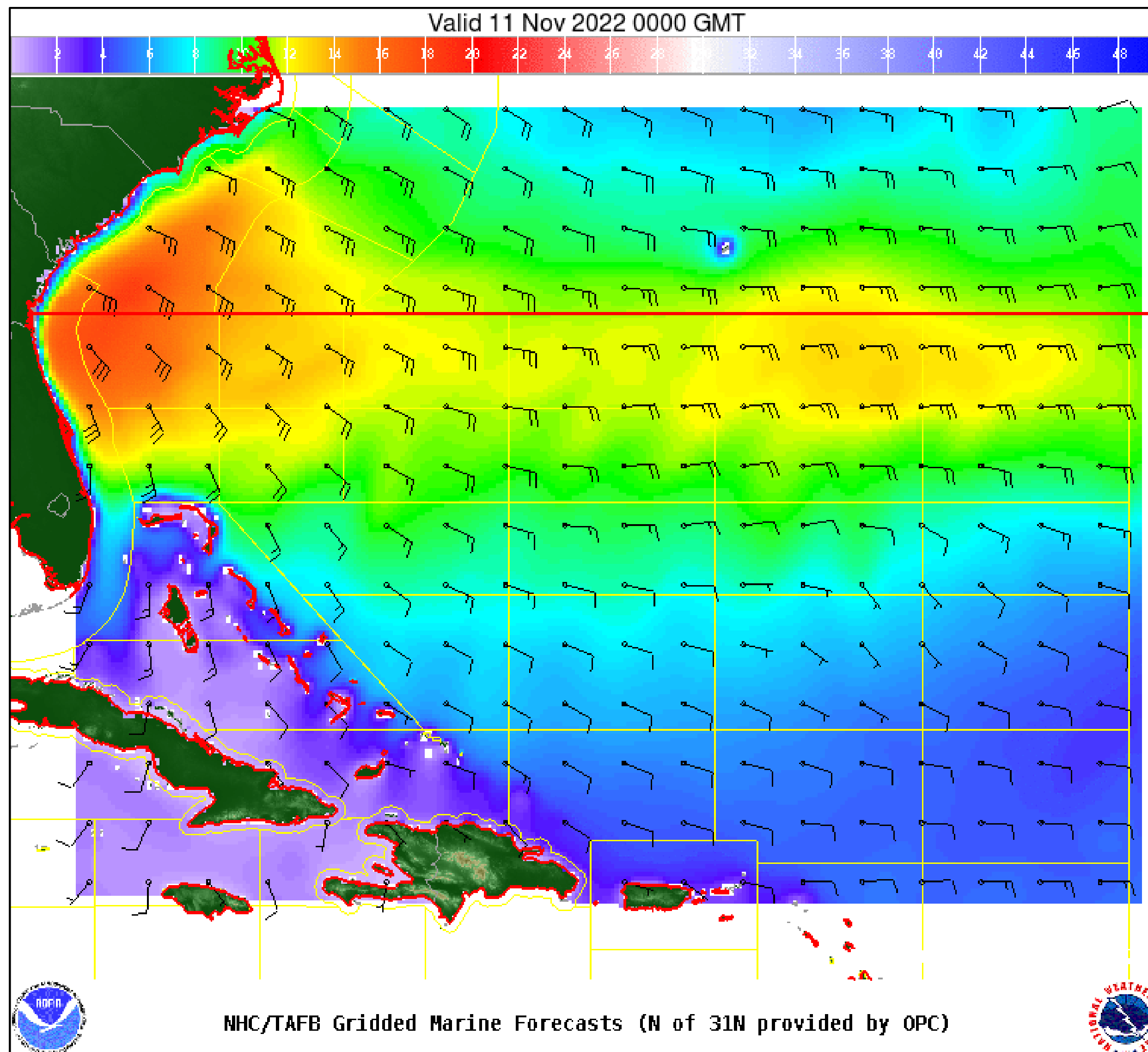


Wind And Waves

Tropical Storm Nicole



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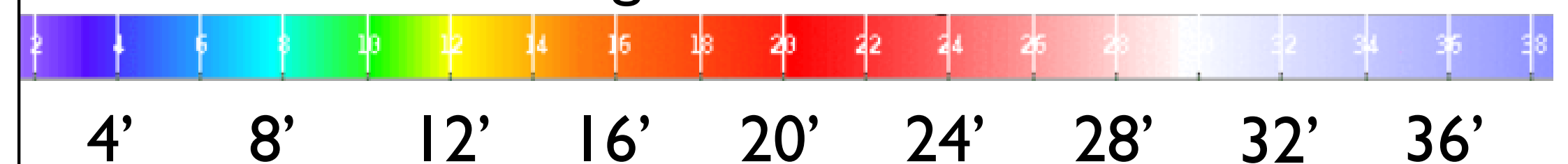
48 Hour Forecast

Thursday, Nov 10, 7 PM EST

Peak Winds: 40 kt

Peak Seas: 26 ft

■ Wave heights are in feet

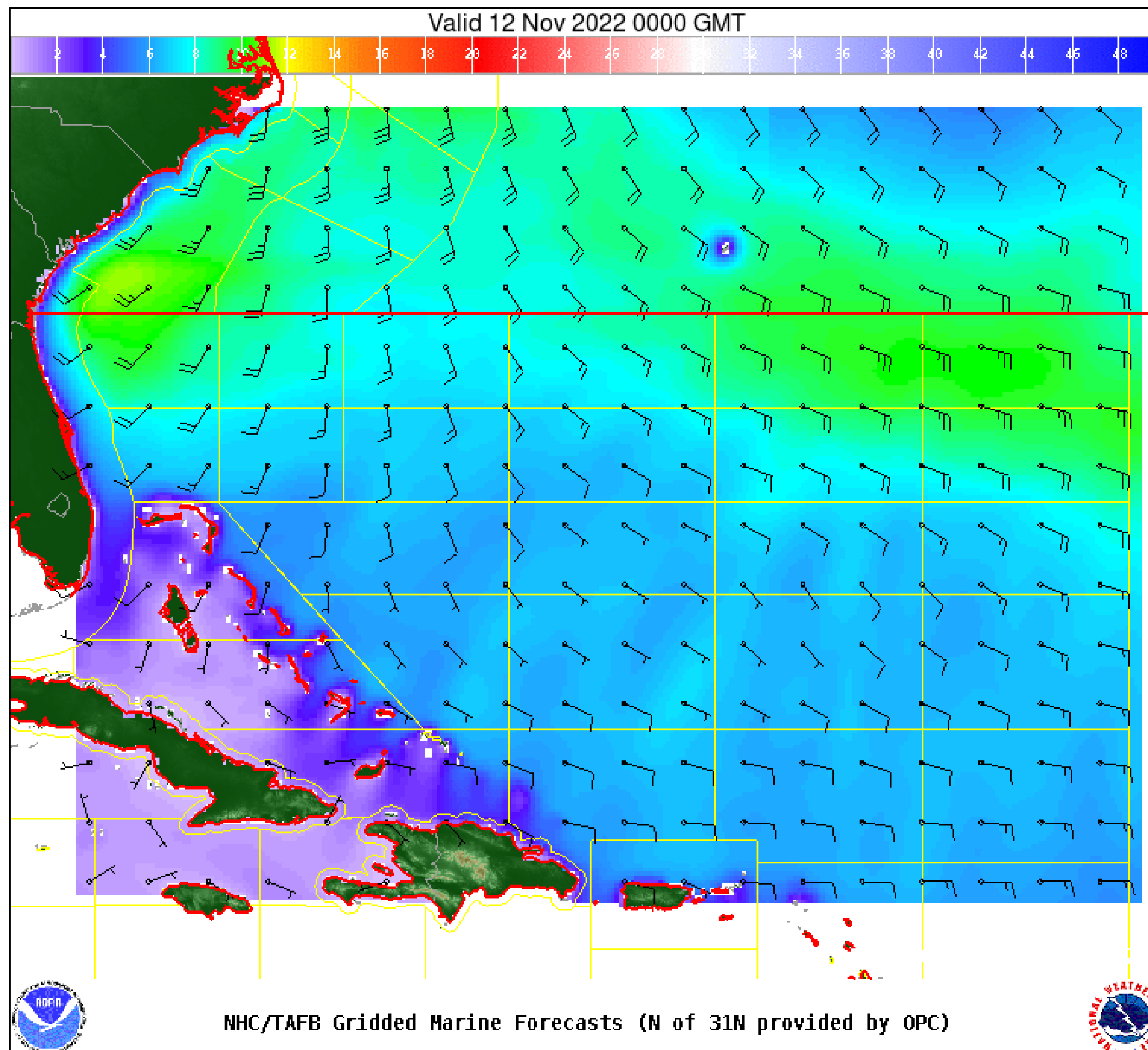


Wind And Waves

Tropical Storm Nicole



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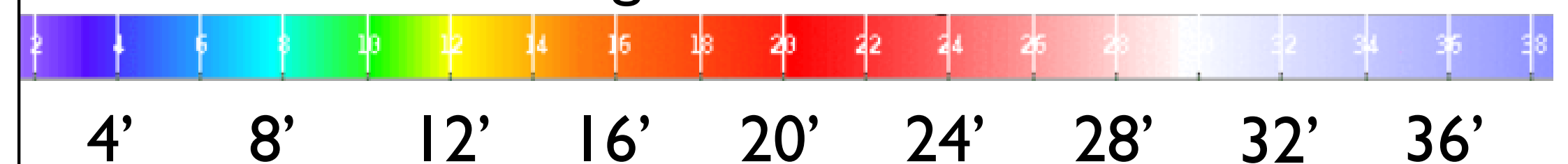
72 Hour Forecast

Friday, Nov 11, 7 PM EST

Peak Winds: 40 kt

Peak Seas: 12 ft

■ Wave heights are in feet



Watches and Warnings

Tropical Storm Nicole



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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 Savannah River Georgia
- * Anclote River Florida to Suwannee River Florida

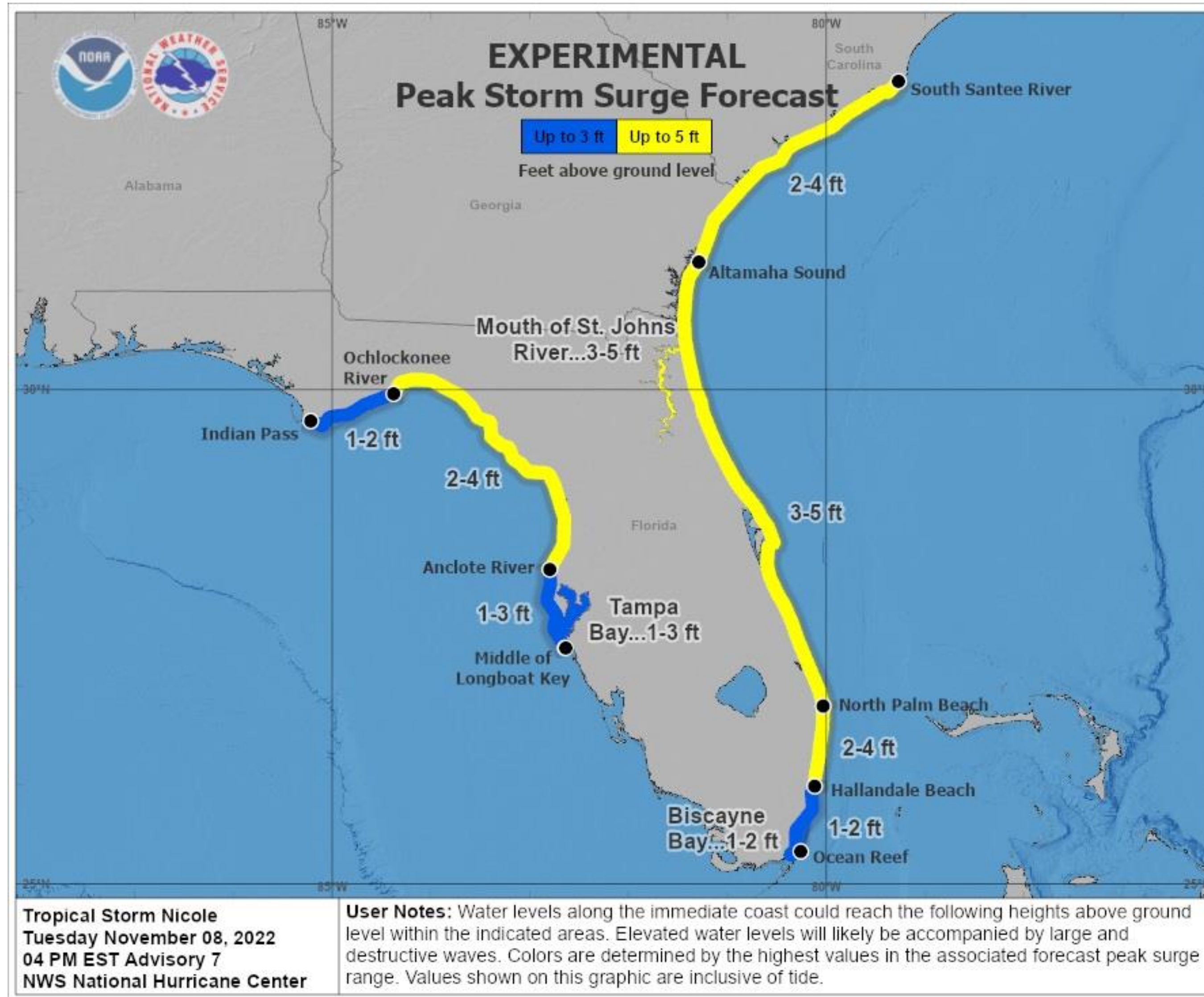
A Storm Surge Warning means there is a danger of life-threatening inundation from rising water moving inland from the coastline in the indicated locations.

Potential Peak Storm Surge

Tropical Storm Nicole



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- 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.

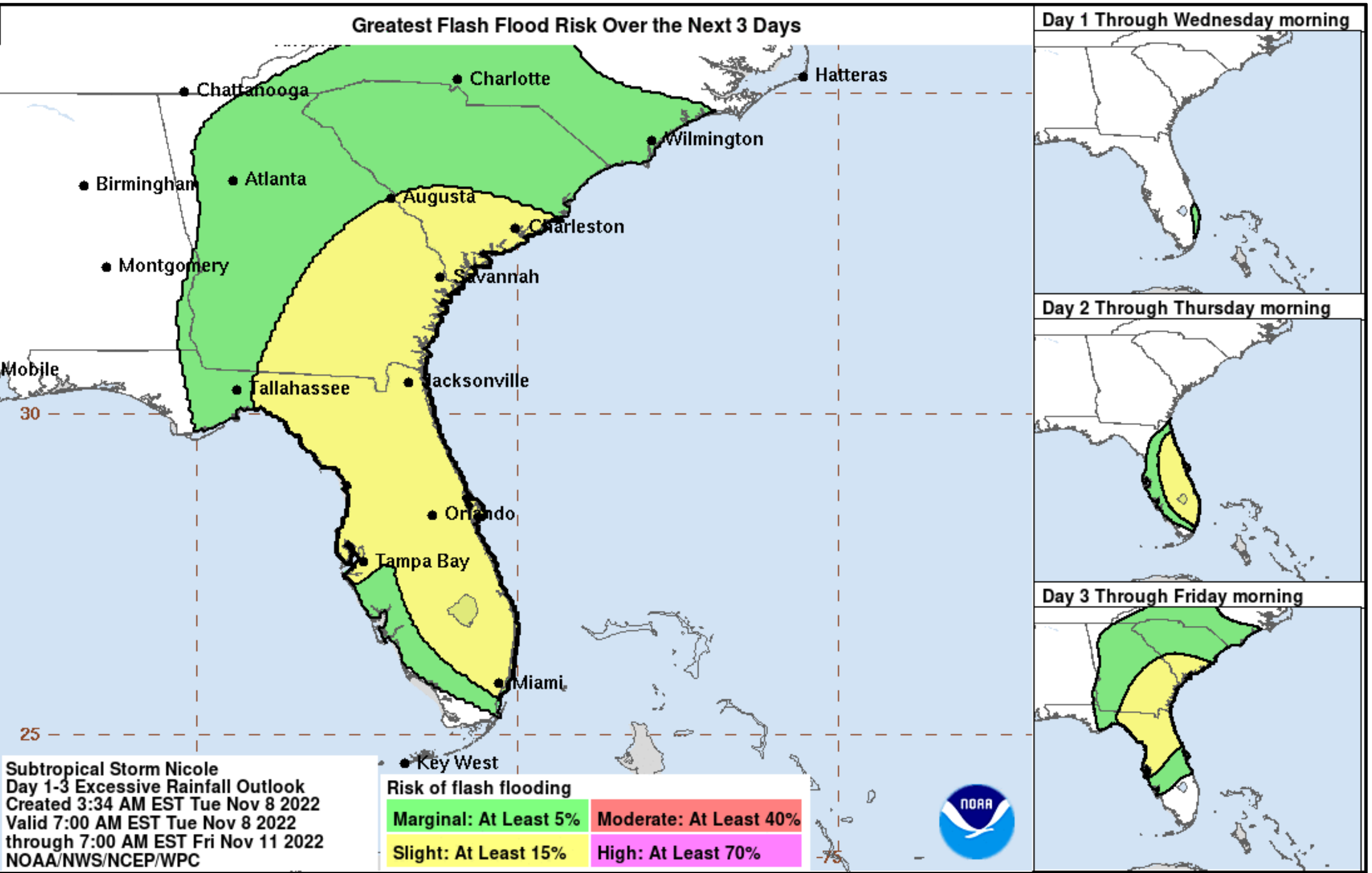
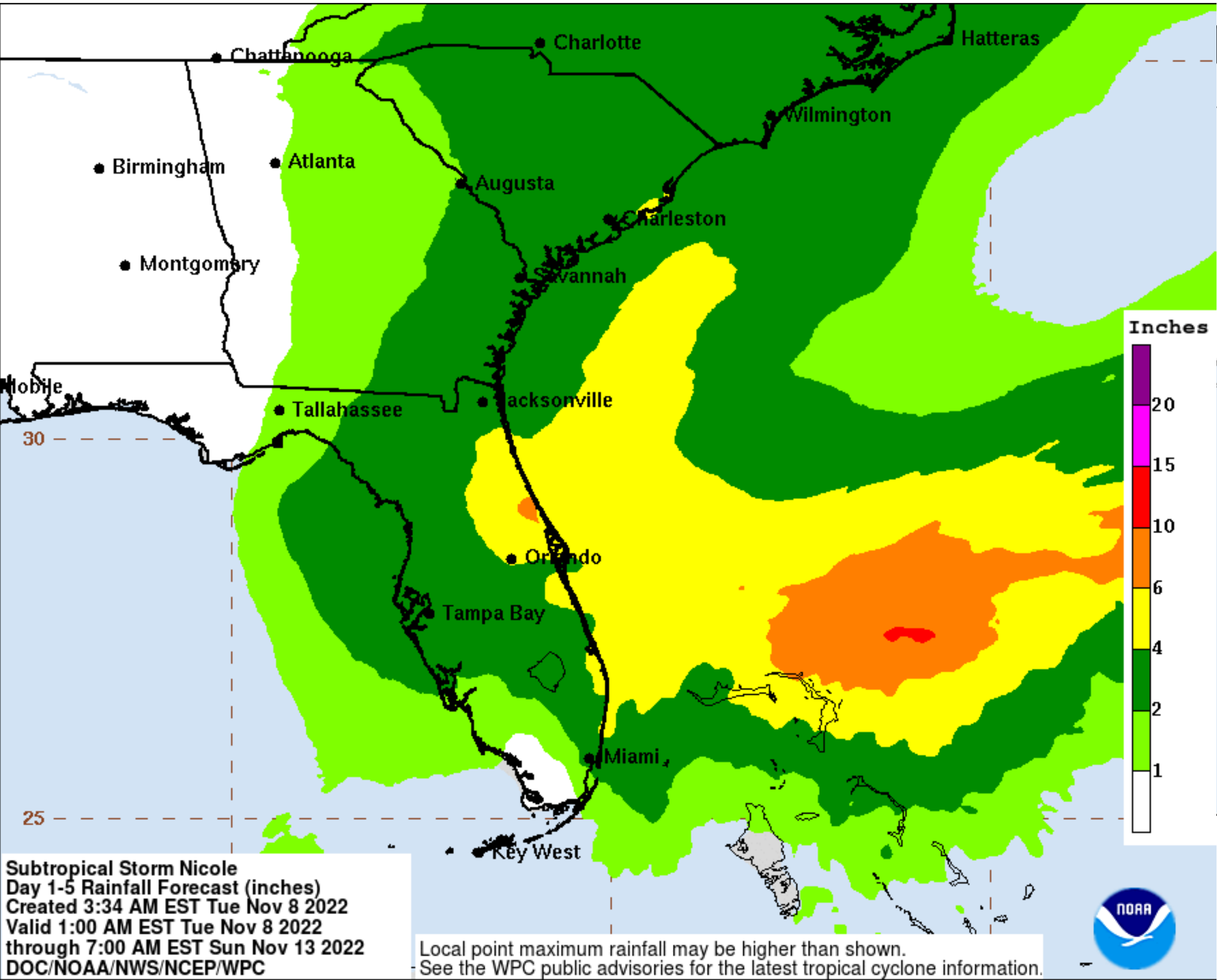
Expected Storm Total Rainfall and Chance of Rainfall Flooding



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

Refer to map legend for Valid Time

- Total rainfall in inches through Sunday

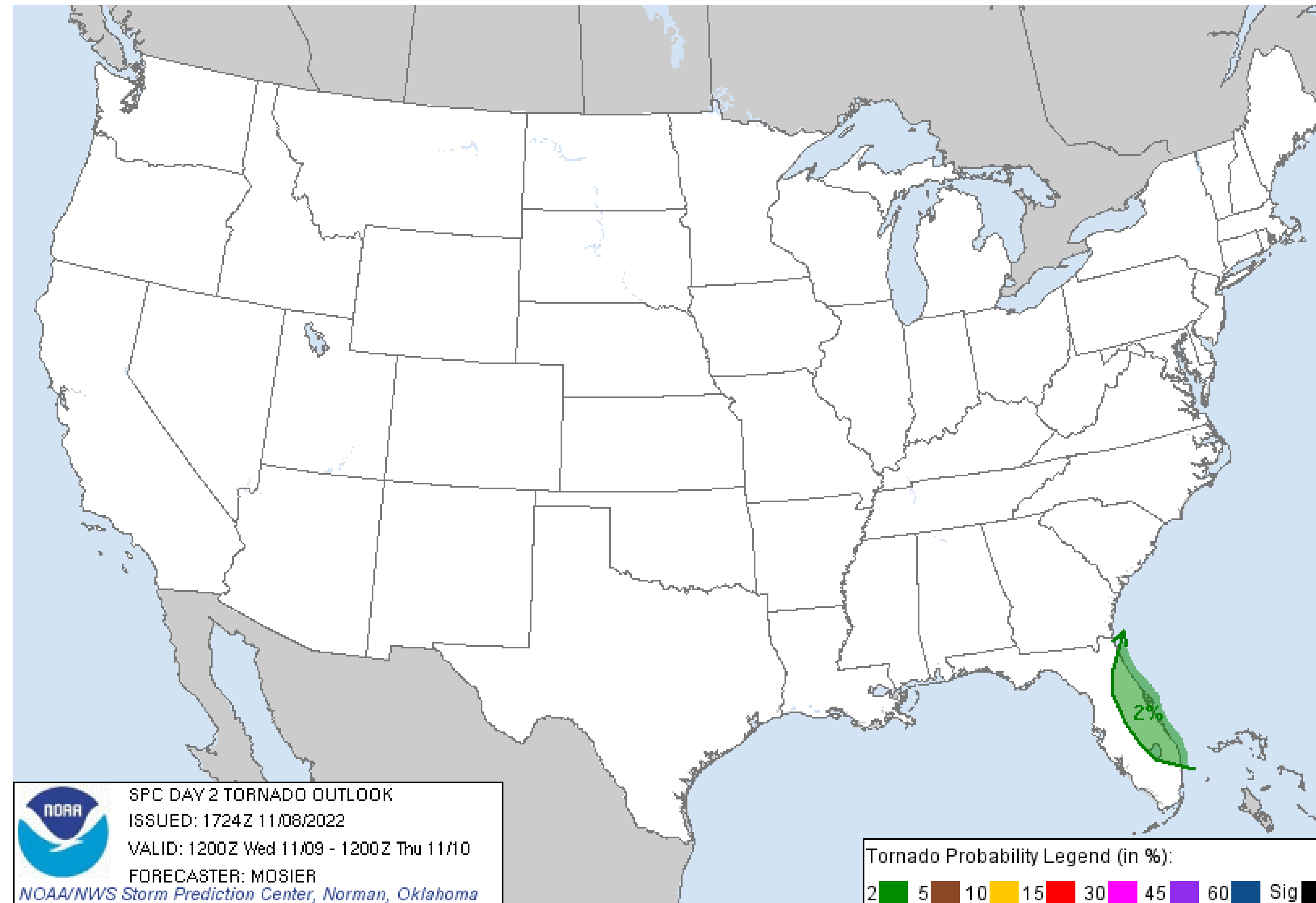
Tornado Outlook

Tropical Storm Nicole

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Wednesday morning –
Thursday morning

Key Messages

Tropical Storm Nicole



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NWS National Hurricane Center



Key Messages for Tropical Storm Nicole

Advisory 6: 10:00 AM EST Tue Nov 08, 2022

1. Hurricane conditions and a dangerous storm surge are expected in portions of the northwestern Bahamas on Wednesday, where a Hurricane Warning is in effect.
2. Hurricane conditions are expected across portions of the coast of southeast and east-central Florida beginning late Wednesday or Wednesday night, where a Hurricane Warning has been issued. Tropical storm conditions are expected in the Tropical Storm Warning areas in Florida and Georgia beginning early Wednesday.
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 Wednesday and Thursday across the Florida Peninsula. Flash and urban flooding will be likely with possible river rises on the St. Johns River. Flash, urban and small stream flooding will be possible in Southeast Georgia and portions of South Carolina Thursday into Thursday night.

For more information go to hurricanes.gov



IMPACTS FOR D7 (through next 5 days)

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Storm Surge – **Moderate**

Rainfall/Flash Flooding – **Moderate**

Tornadoes – **Low**

Waves - **High**

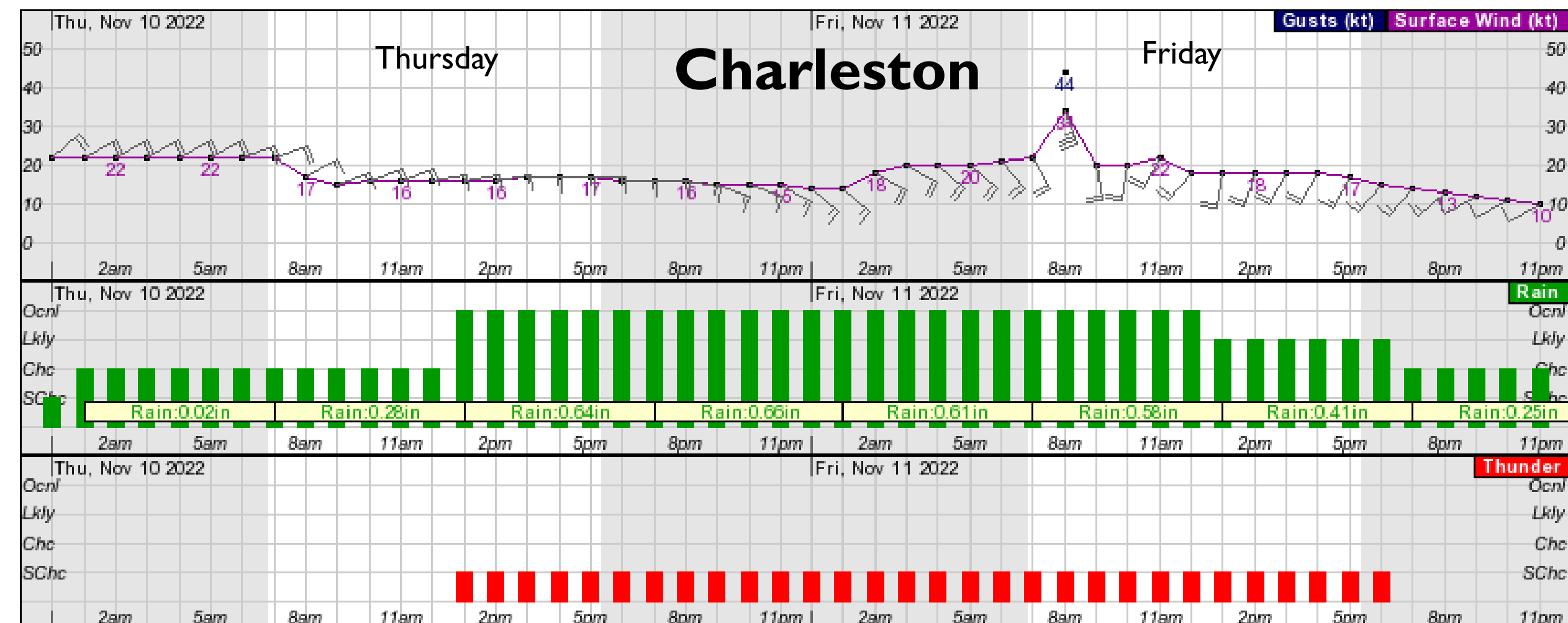
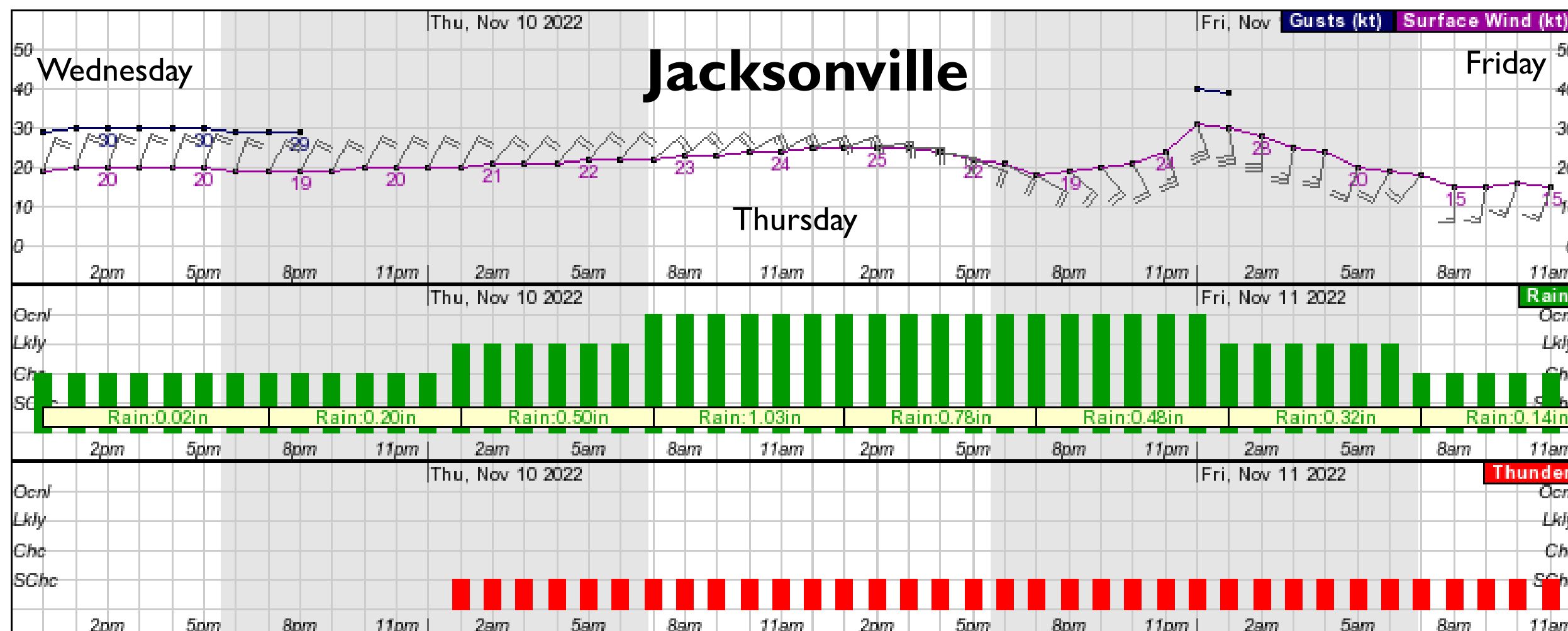
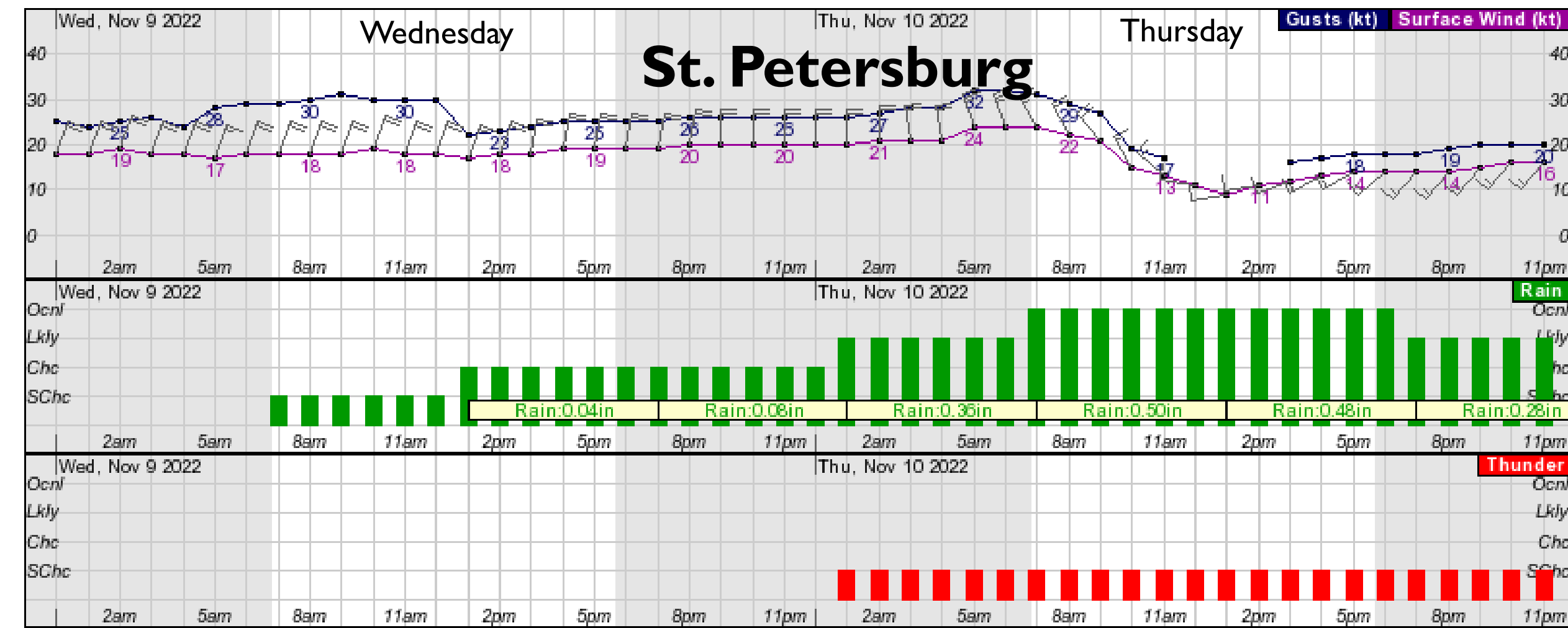
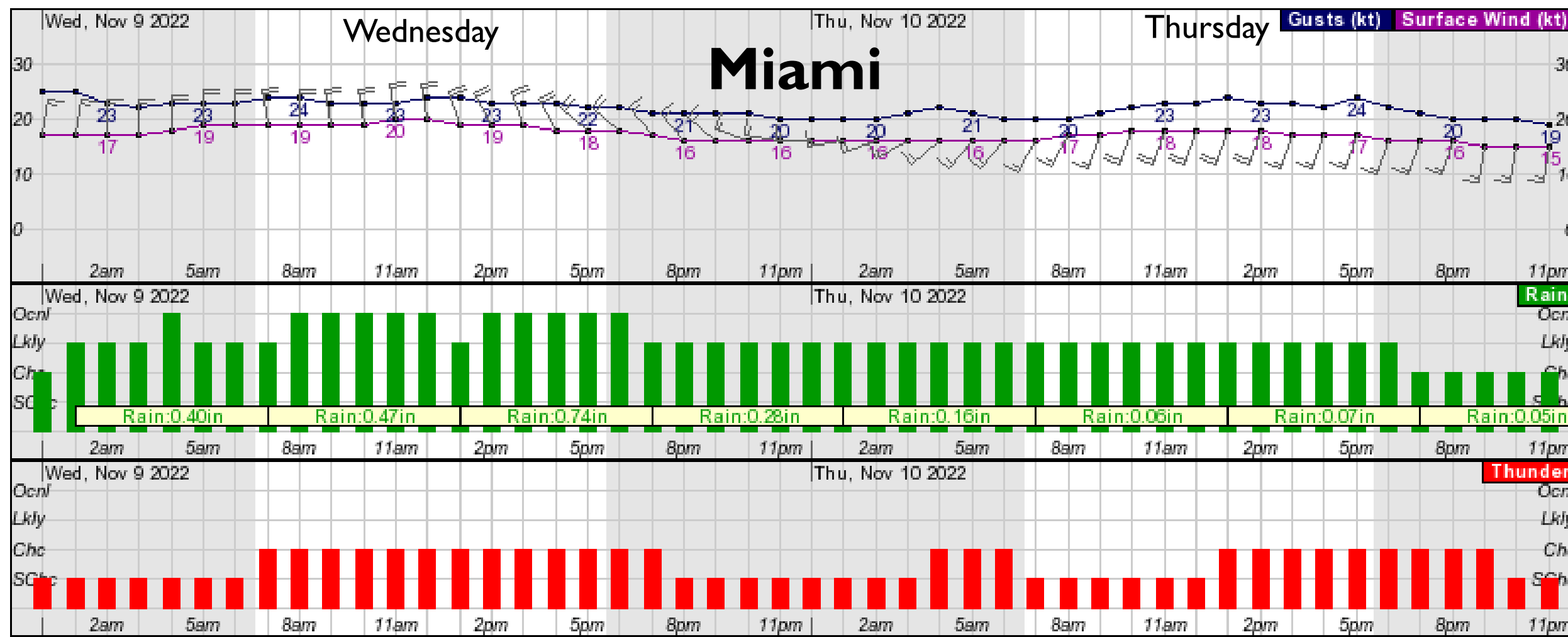
- Marine Key Messages:
- Expect tropical storm conditions across a large area of the western Atlantic.
- Hurricane conditions will be localized.
- Seas currently 23 ft, expected to build to 34 ft north of the Bahamas
- Conditions will subside by Friday

Hourly Sector Forecast

Tropical Storm Nicole



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NWS National Hurricane Center





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



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www.nhc.noaa.gov