

IMPACTS FOR D7 (through next 5 days)

Winds – Moderate - High

Storm Surge – Moderate

Rainfall/Flash Flooding – Moderate - High

Tornadoes – None

Waves - High

SUBTROPICAL STORM NICOLE BRIEFING



8:15 AM EST
Monday, November 7, 2022

Prepared by:
Dylan Flynn

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

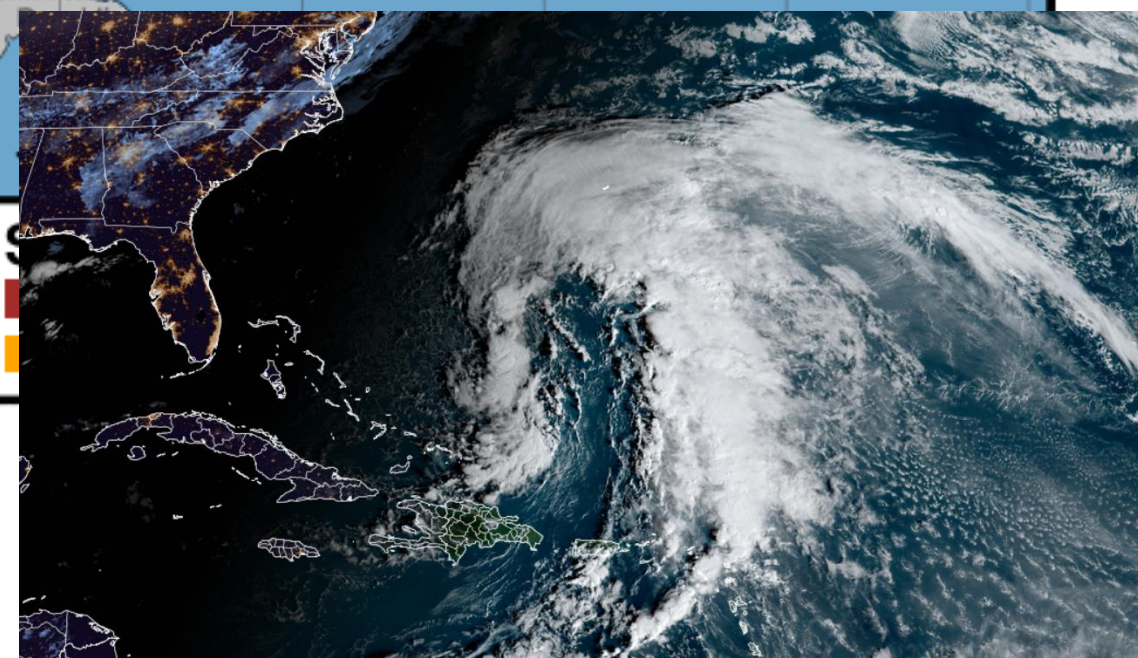
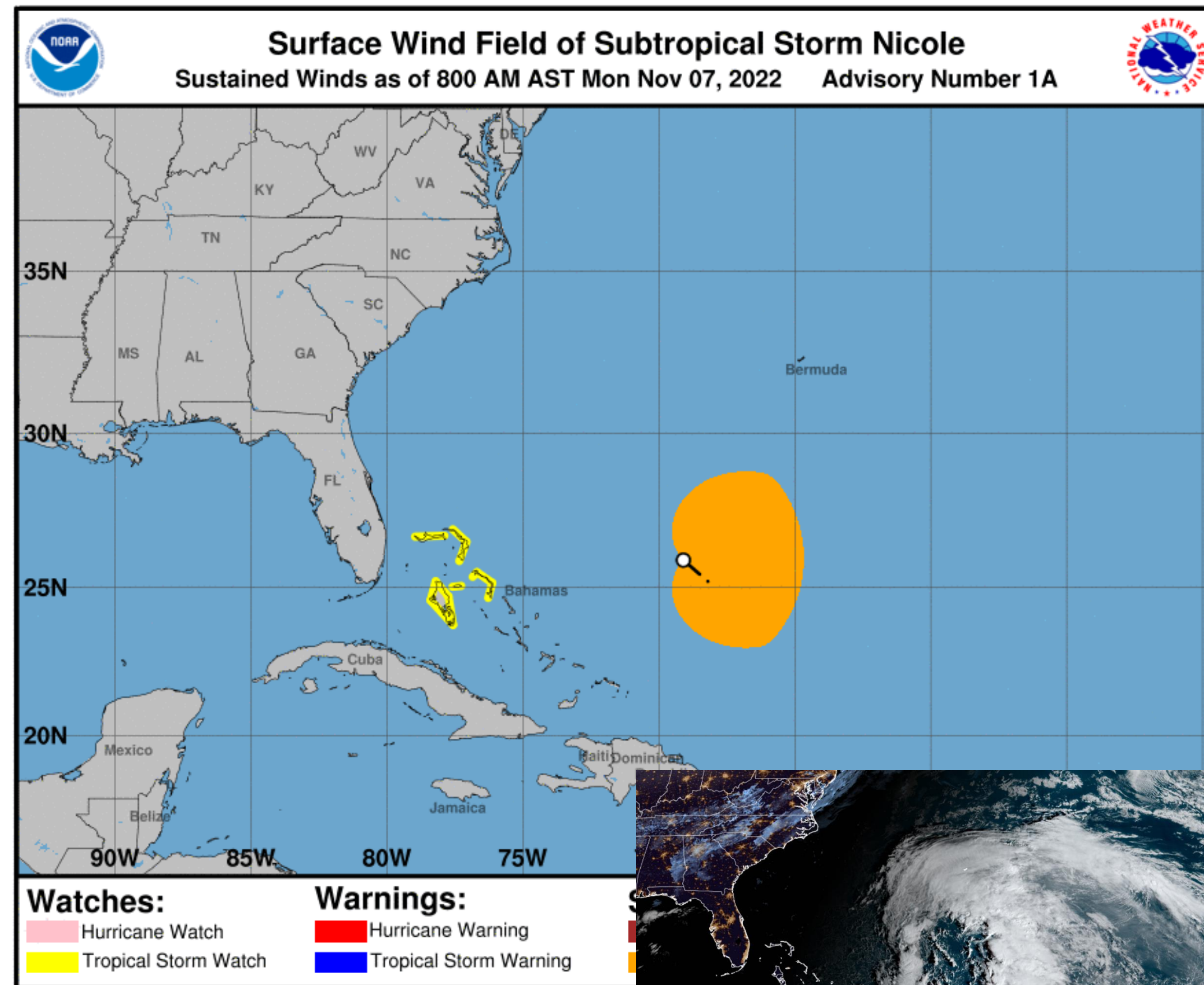
www.nhc.noaa.gov

Situation Overview

Subtropical Storm Nicole



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**...NOAA HURRICANE HUNTERS
INVESTIGATING SUBTROPICAL STORM
NICOLE...
...PROLONGED PERIOD OF HAZARDOUS
WEATHER EXPECTED OVER THE
NORTHWESTERN BAHAMAS, FLORIDA, AND
THE SOUTHEASTERN COAST OF THE
UNITED STATES THIS WEEK...**

SUMMARY OF 800 AM AST...1200 UTC...INFORMATION

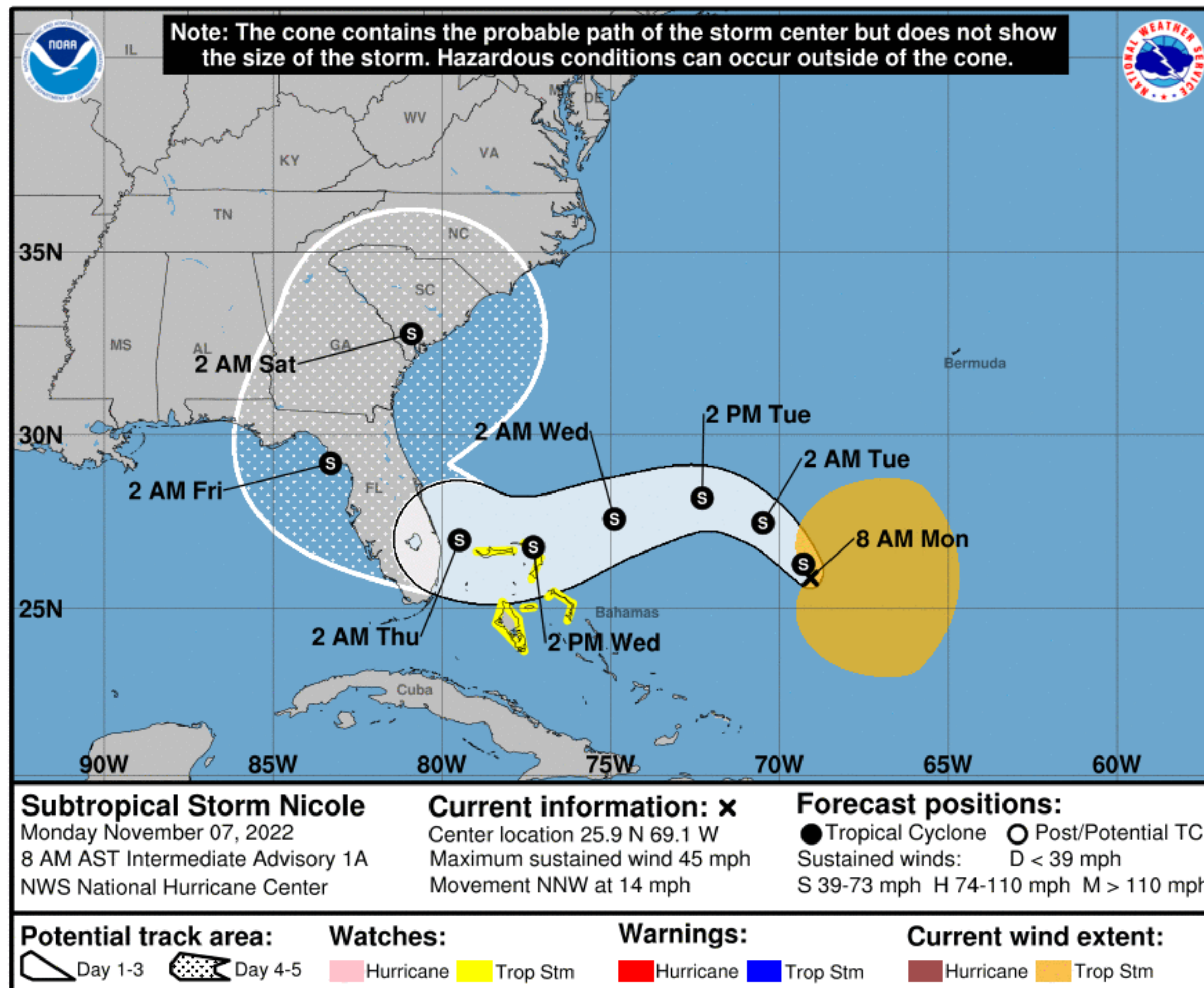
LOCATION...25.9N 69.1W
ABOUT 450 N. MI E OF THE NORTHWESTERN
BAHAMAS
MAXIMUM SUSTAINED WINDS...40 KT
PRESENT MOVEMENT...NNW AT 13 KT
MINIMUM CENTRAL PRESSURE...1002 MB
SIZE 34 KT.....240NE 240SE 0SW 0NW.
12 FT SEAS..300NE 0SE 0SW 120NW.

Forecast Information

Subtropical Storm Nicole



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- Subtropical Storm Nicole is forecast to move NW through the western Atlantic for the next 36 hours or so, before turning SW towards the northern Bahamas and east coast of Florida
- Gradual strengthening is anticipated with a high end tropical storm or category one hurricane expected at landfall
- Landfall is expected along the east coast of Florida sometime between Wednesday night through Thursday night, however impacts may begin up to a day prior to landfall.
- 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.

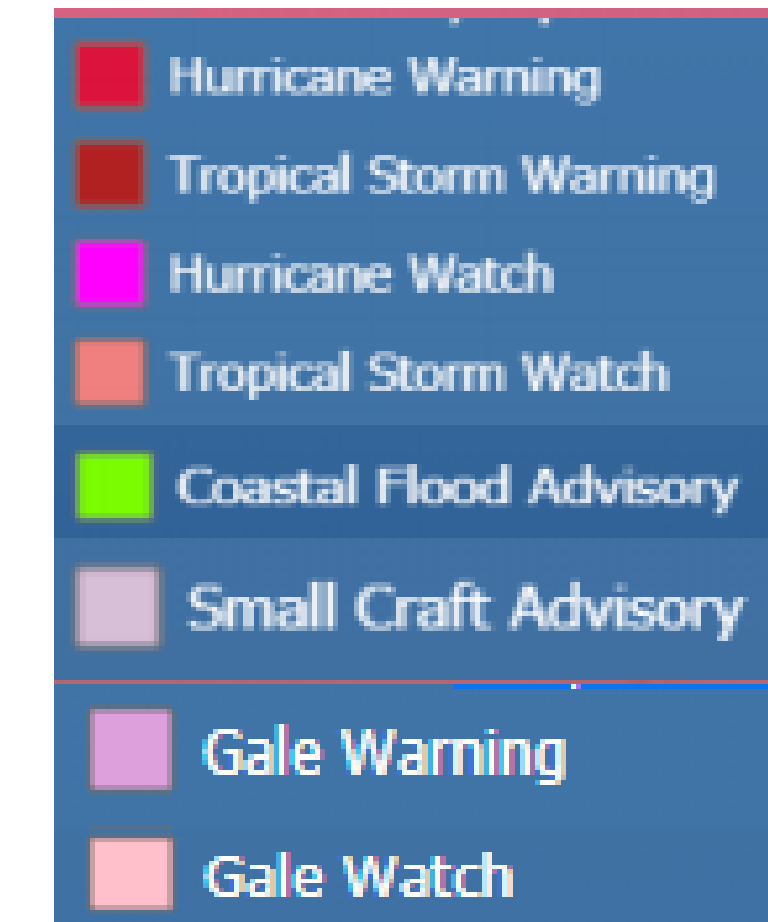
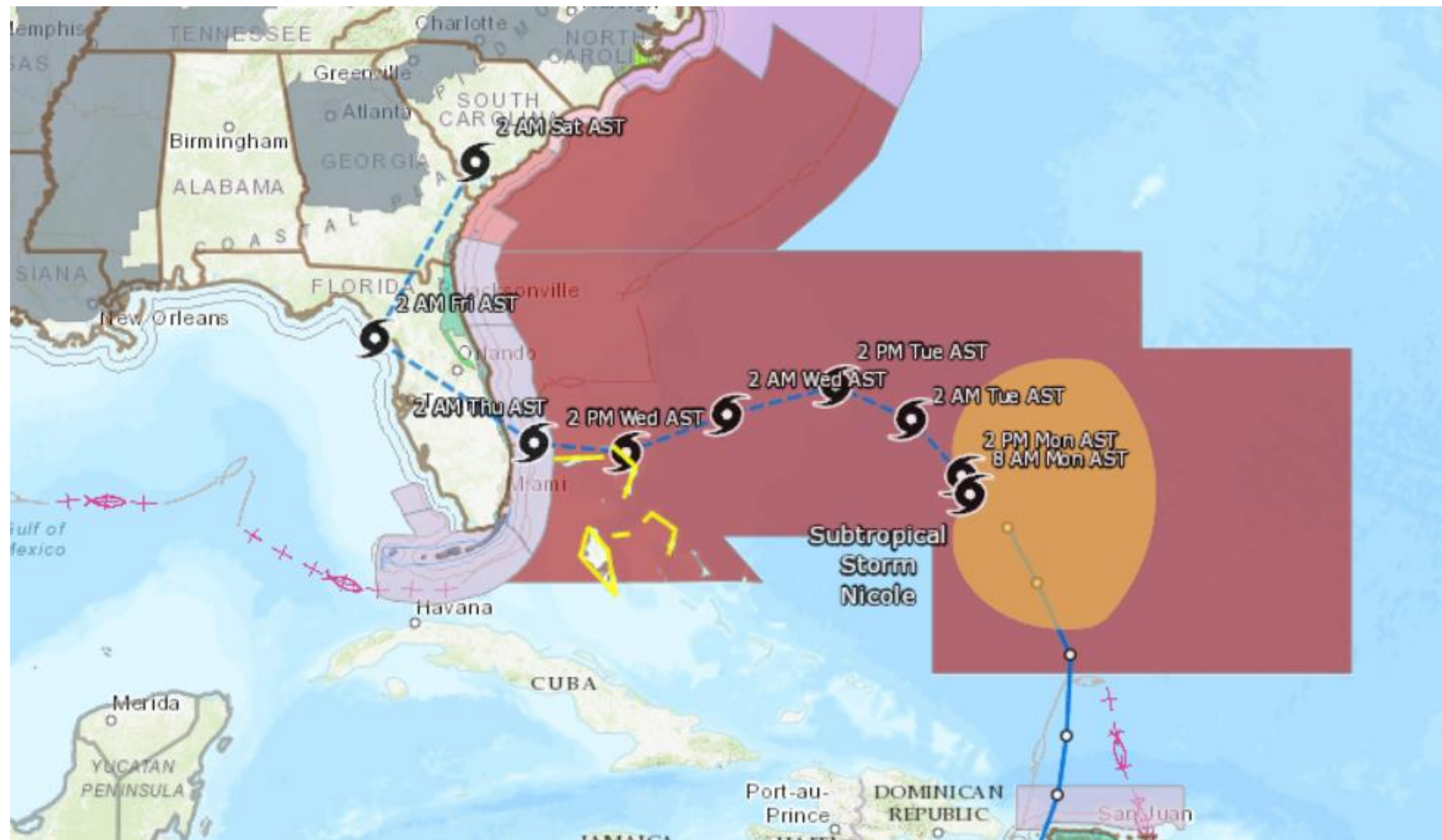
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Subtropical Storm Nicole



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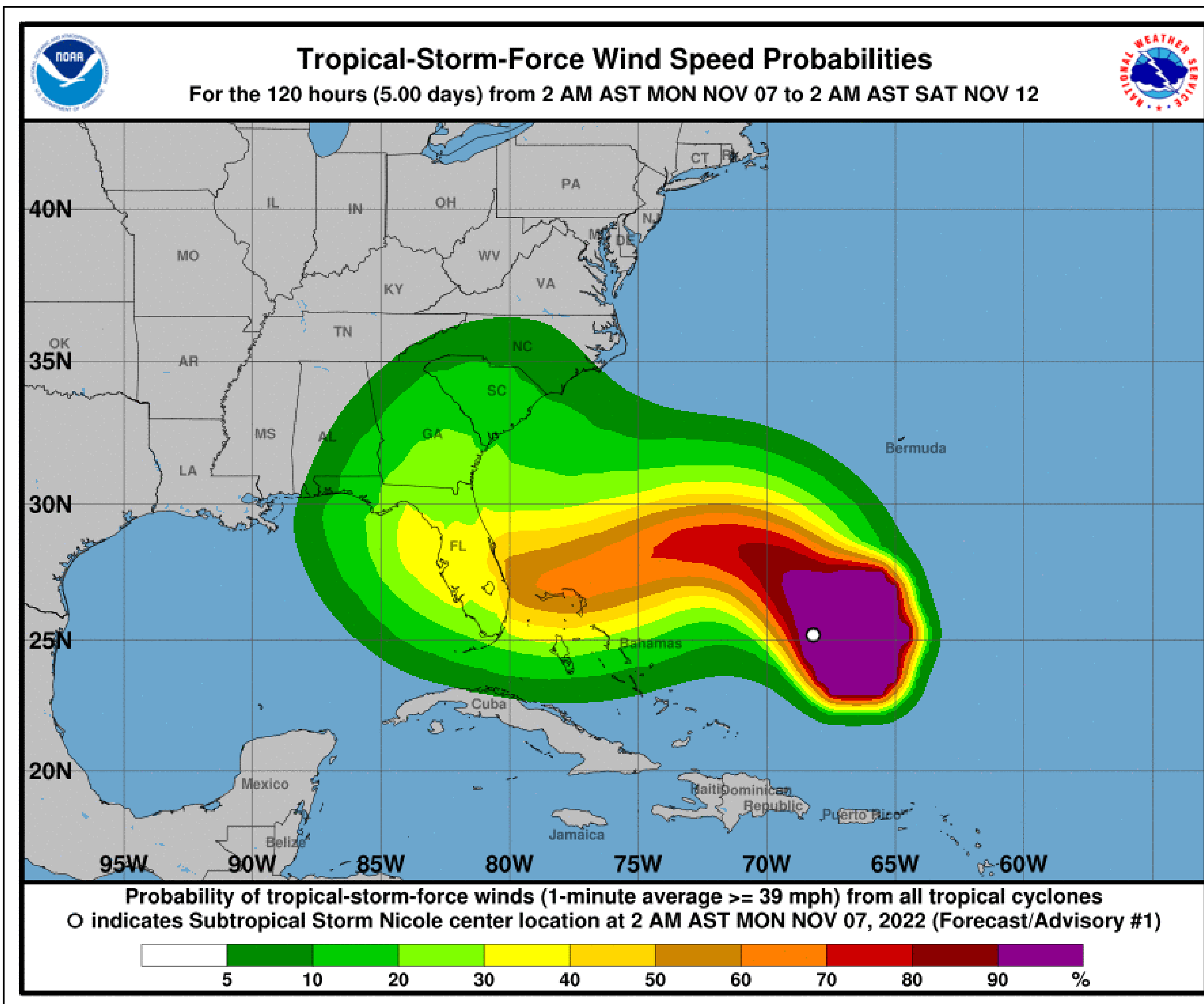
<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Subtropical Storm Nicole



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NWS National Hurricane Center



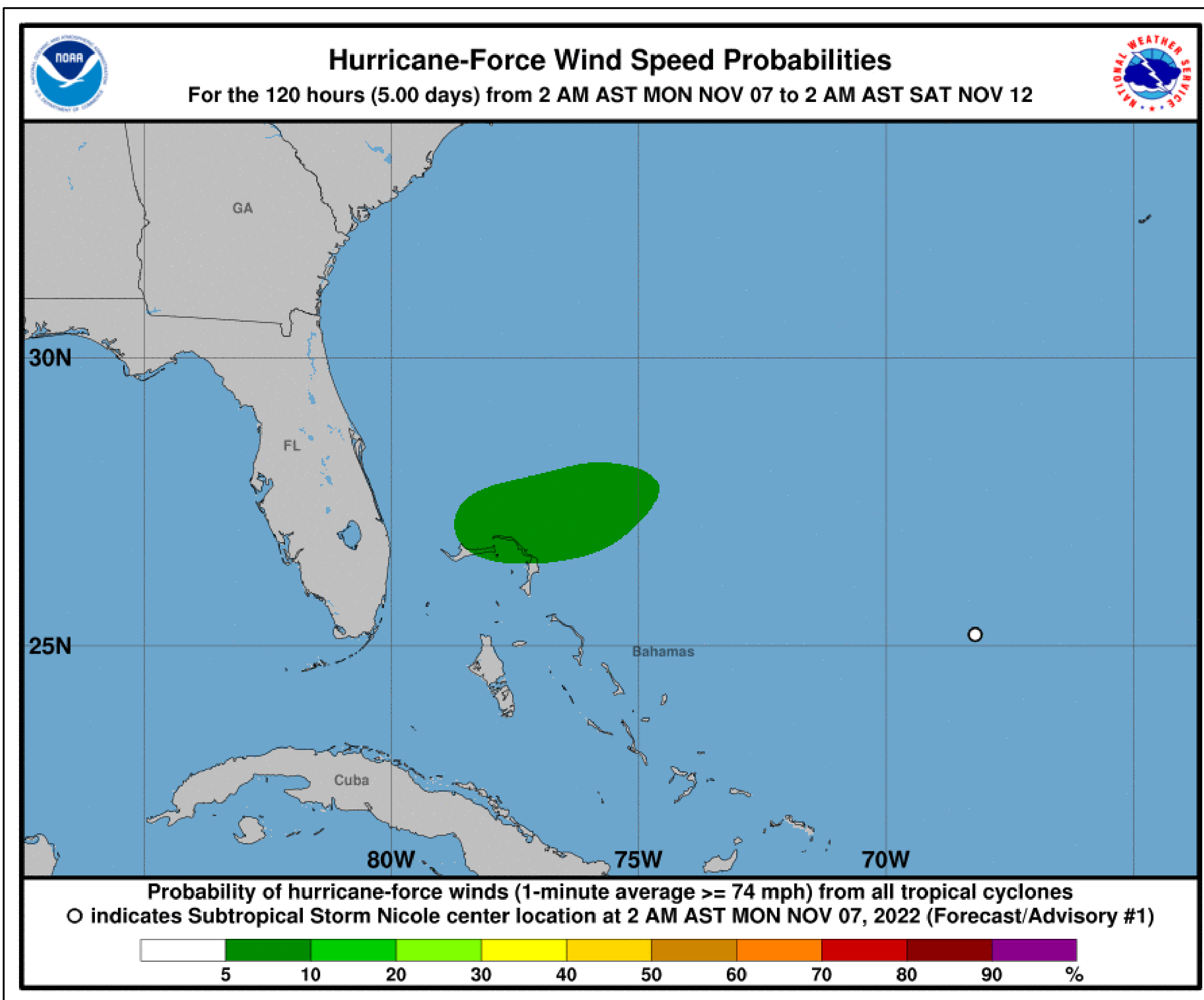
- Panama City – 20%
 - Apalachicola – 25%
 - St. Marks – 25%
 - Cedar Key – 40%
 - Tampa – 45%
 - Venice – 40%
 - Ft. Meyers – 30%
 - Naples – 30%
 - Homestead – 25%
 - Miami – 30%
 - Ft. Lauderdale – 45%
 - Palm Beach – 55%
 - Ft. Pierce – 55%
 - Patrick AFB – 50%
 - Cocoa Beach – 50%
 - Daytona Beach – 30%
 - Jacksonville – 25%
 - Mayport – 25%
 - Waycross – 25%
 - Kings Bay – 25%
 - Savannah – 20%
- 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

Subtropical Storm Nicole



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- All less than 5% at this time
- 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.

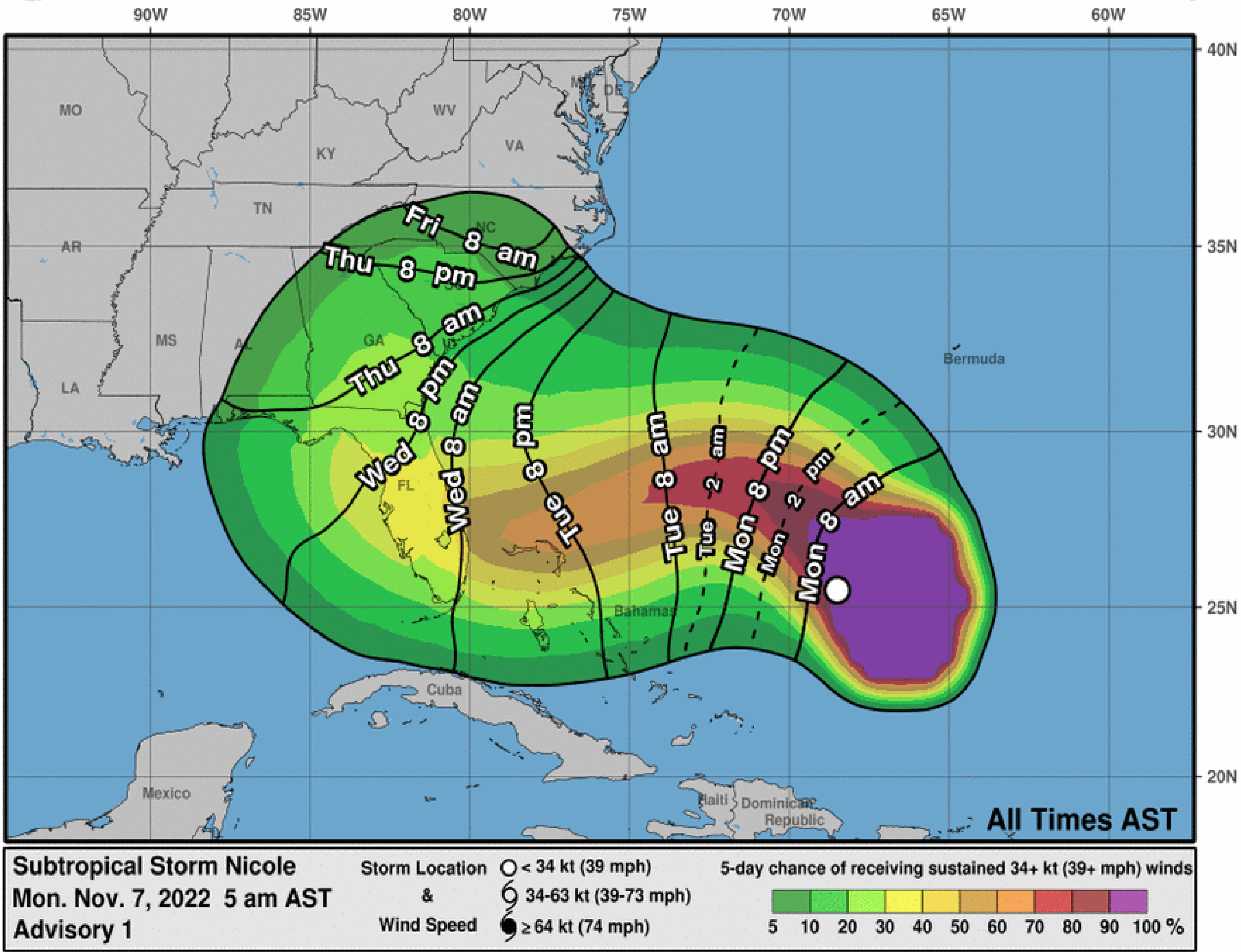
Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities



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Subtropical Storm Nicole

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



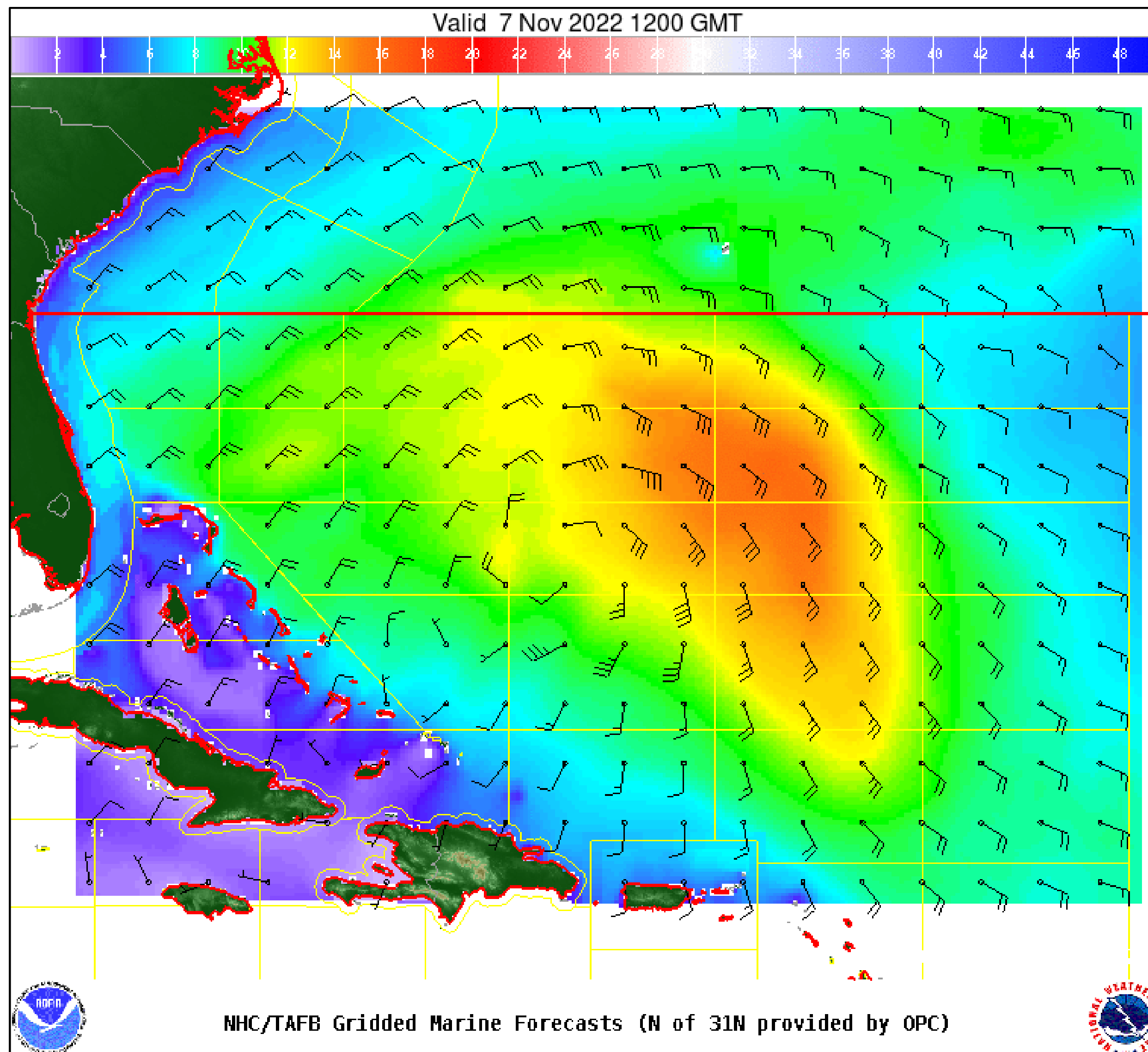
- SE and East Central Florida – Wednesday morning
- West and NE Florida – Wednesday night
- Georgia – Wednesday night
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances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

Subtropical Storm Nicole



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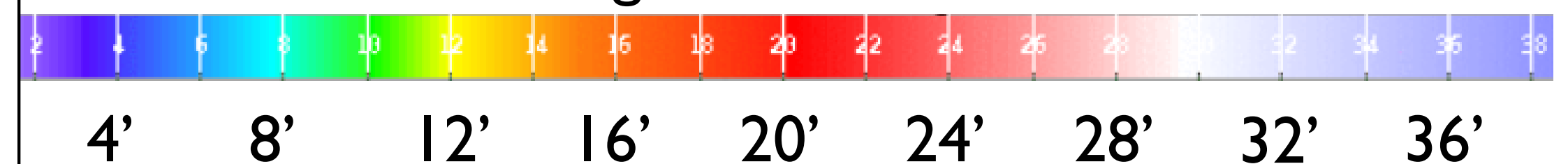
Current Conditions

8AM EST Monday Nov, 7

Peak Winds: 40 kts

Peak Seas: 15 ft

■ Wave heights are in feet

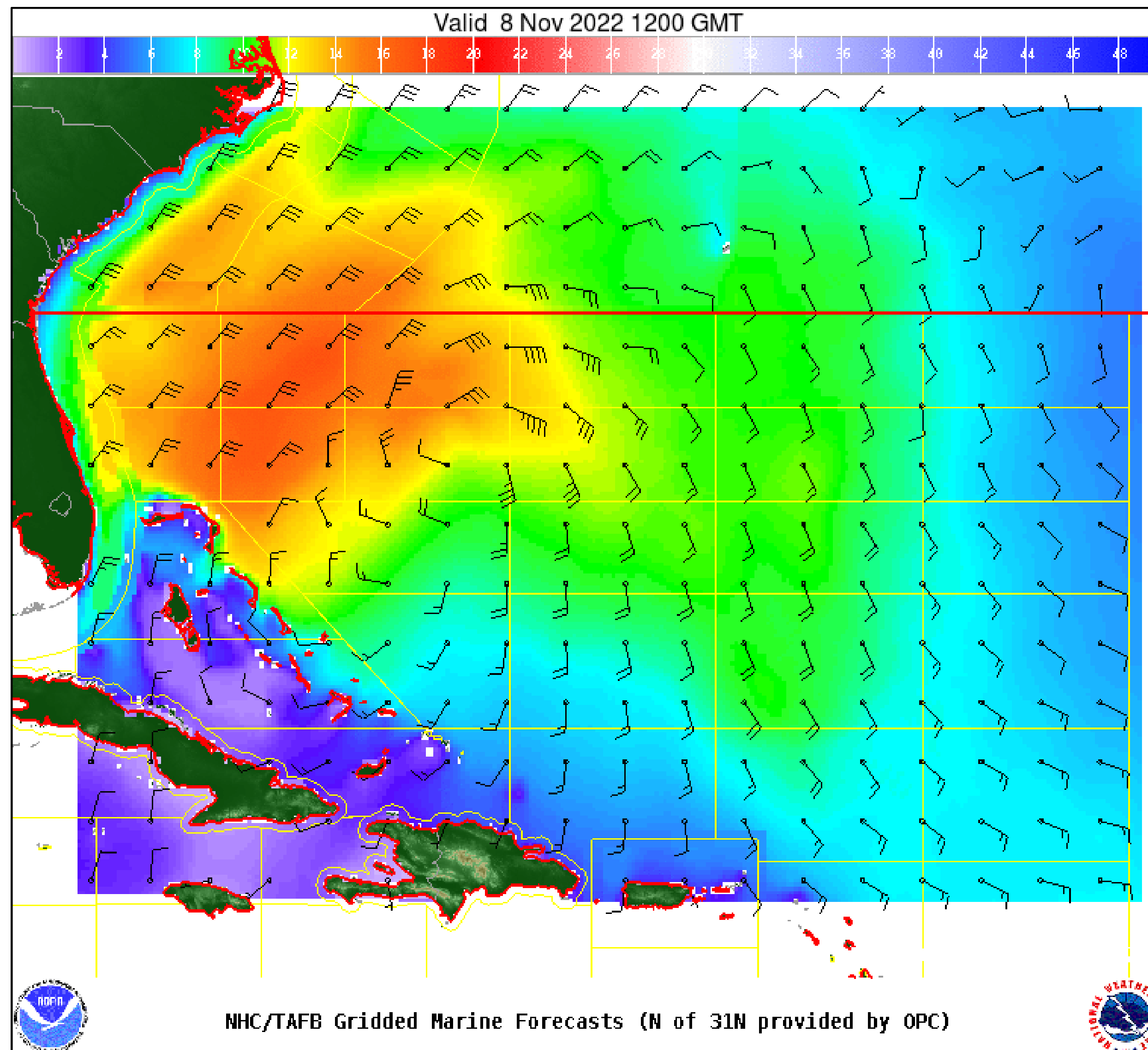


Wind And Waves

Subtropical Storm Nicole



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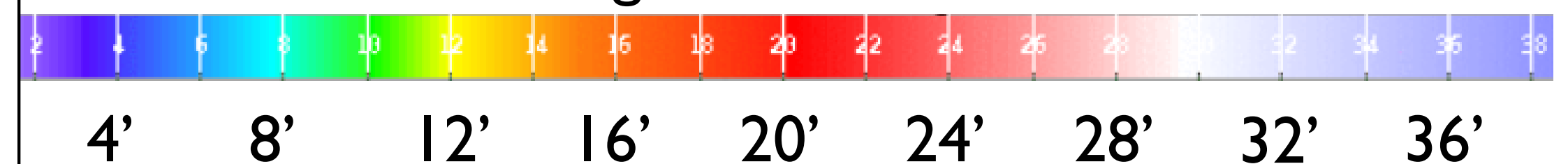
24 Hour Forecast

8AM EST Tuesday Nov 8

Peak Winds: 45 kts

Peak Seas: 18 ft

■ Wave heights are in feet

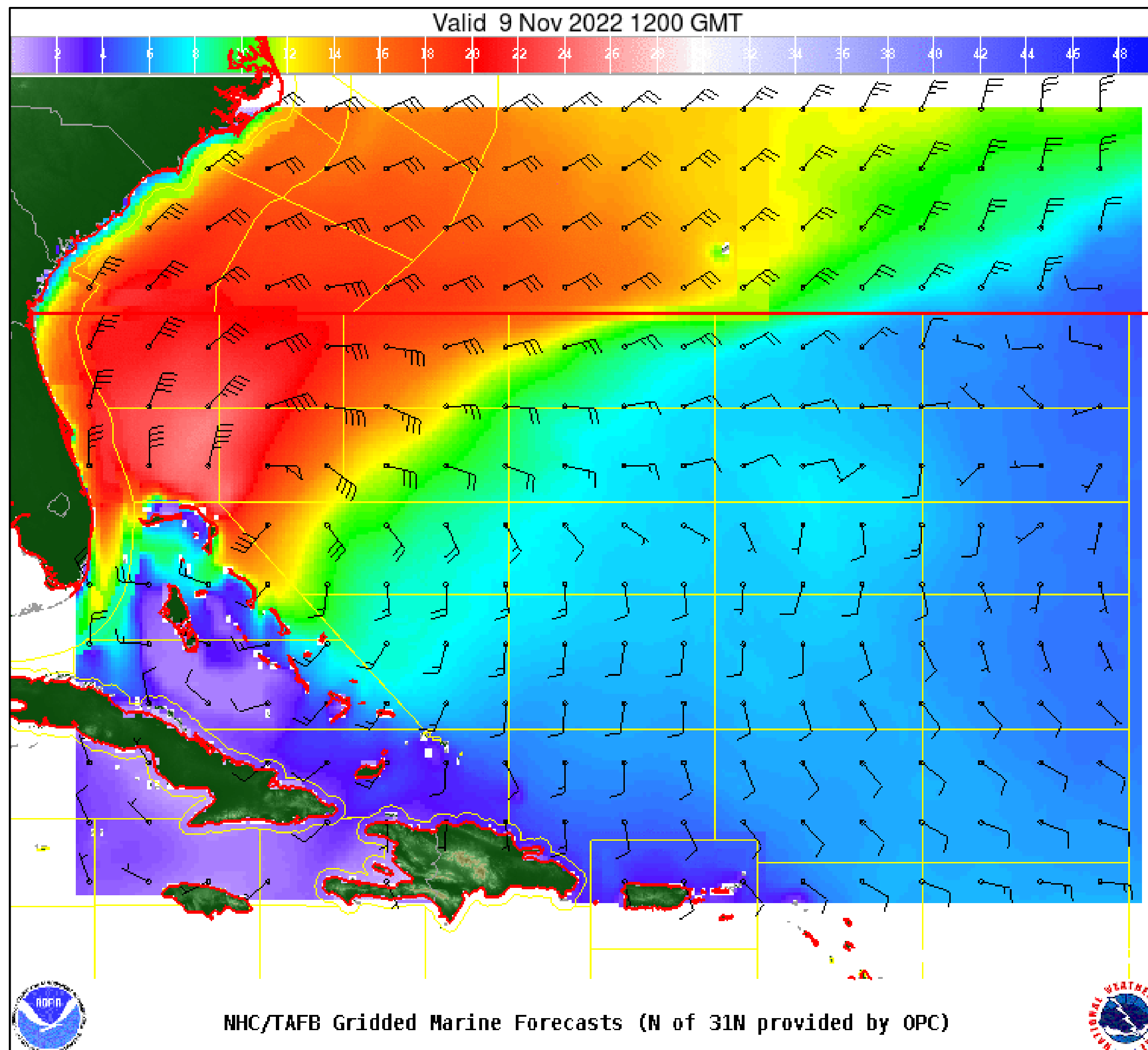


Wind And Waves

Subtropical Storm Nicole



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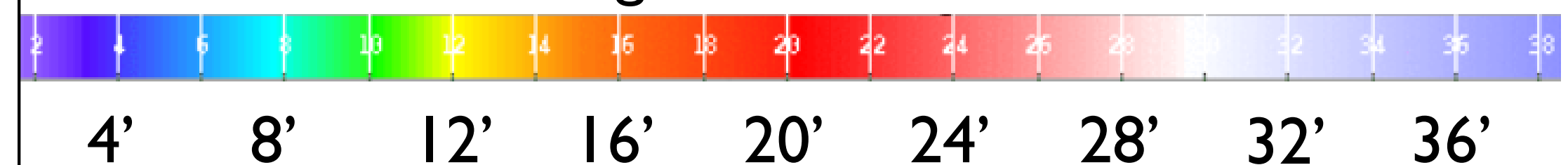
48 Hour Forecast

8 AM Wednesday, Nov 9th

Peak Winds: 55 kts

Peak Seas: 25 ft

■ Wave heights are in feet

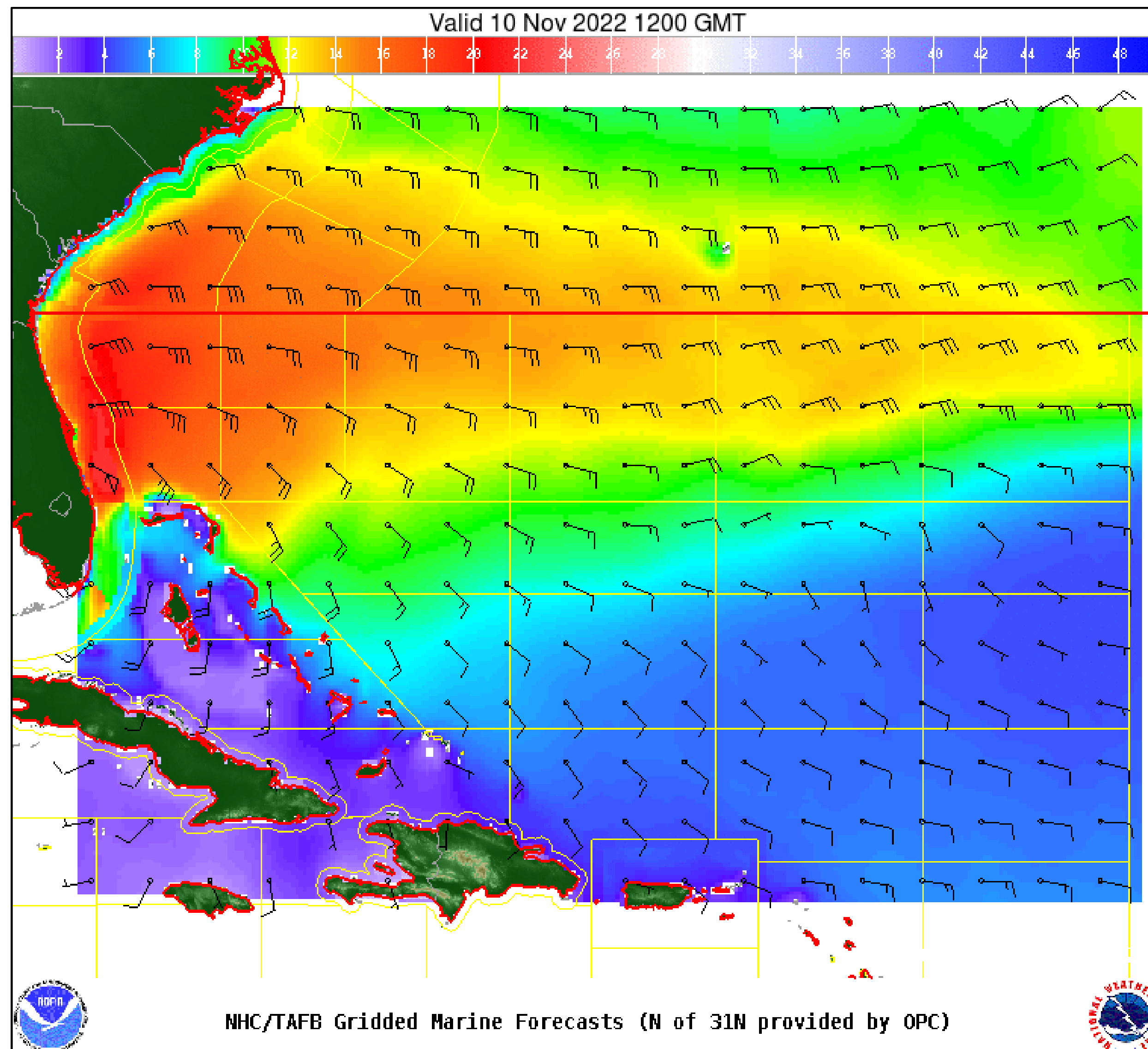


Wind And Waves

Subtropical Storm Nicole



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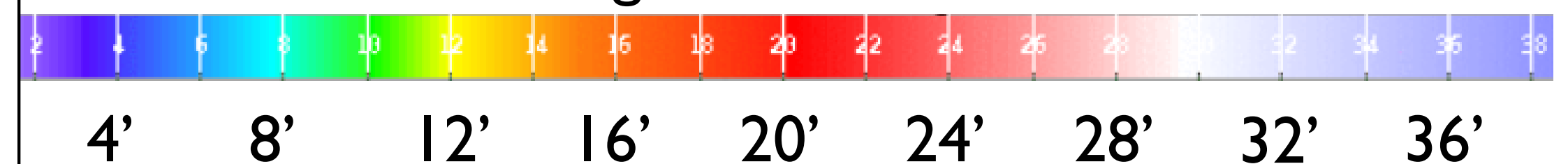
72 Hour Forecast

8AM Thursday Nov 10th

Peak Winds: 60 kts

Peak Seas: 20 ft

■ Wave heights are in feet

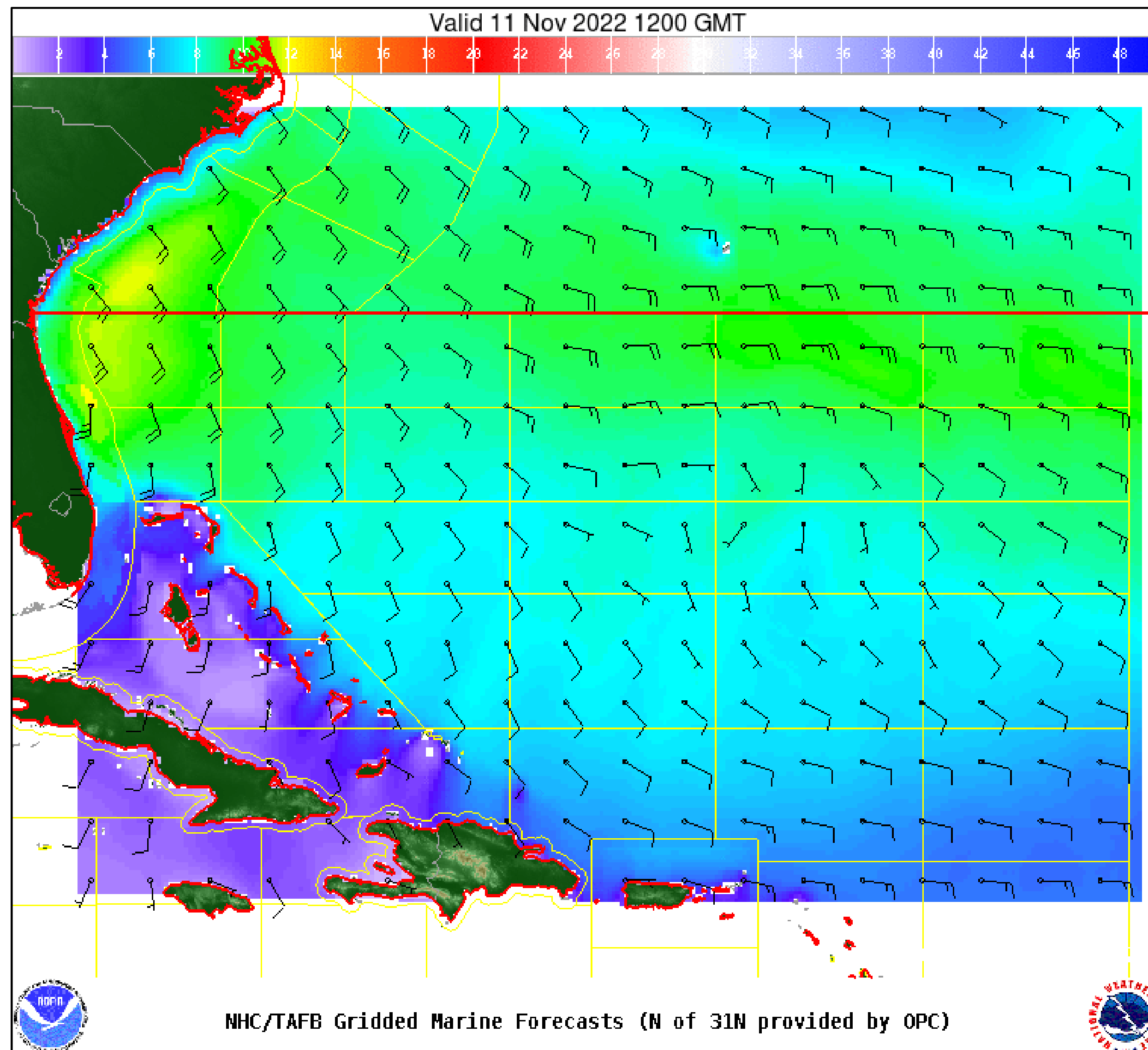


Wind And Waves

Subtropical Storm Nicole



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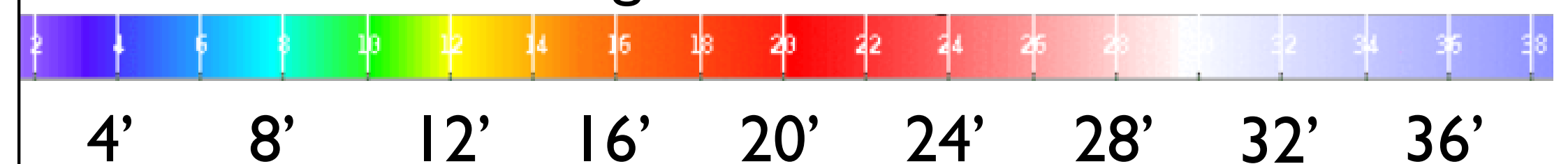
96 Hour Forecast

8 AM Friday, Nov 11th

Peak Winds: 45 kts (inland)

Peak Seas: 12 ft

■ Wave heights are in feet



Potential Storm Surge

Subtropical Storm Nicole



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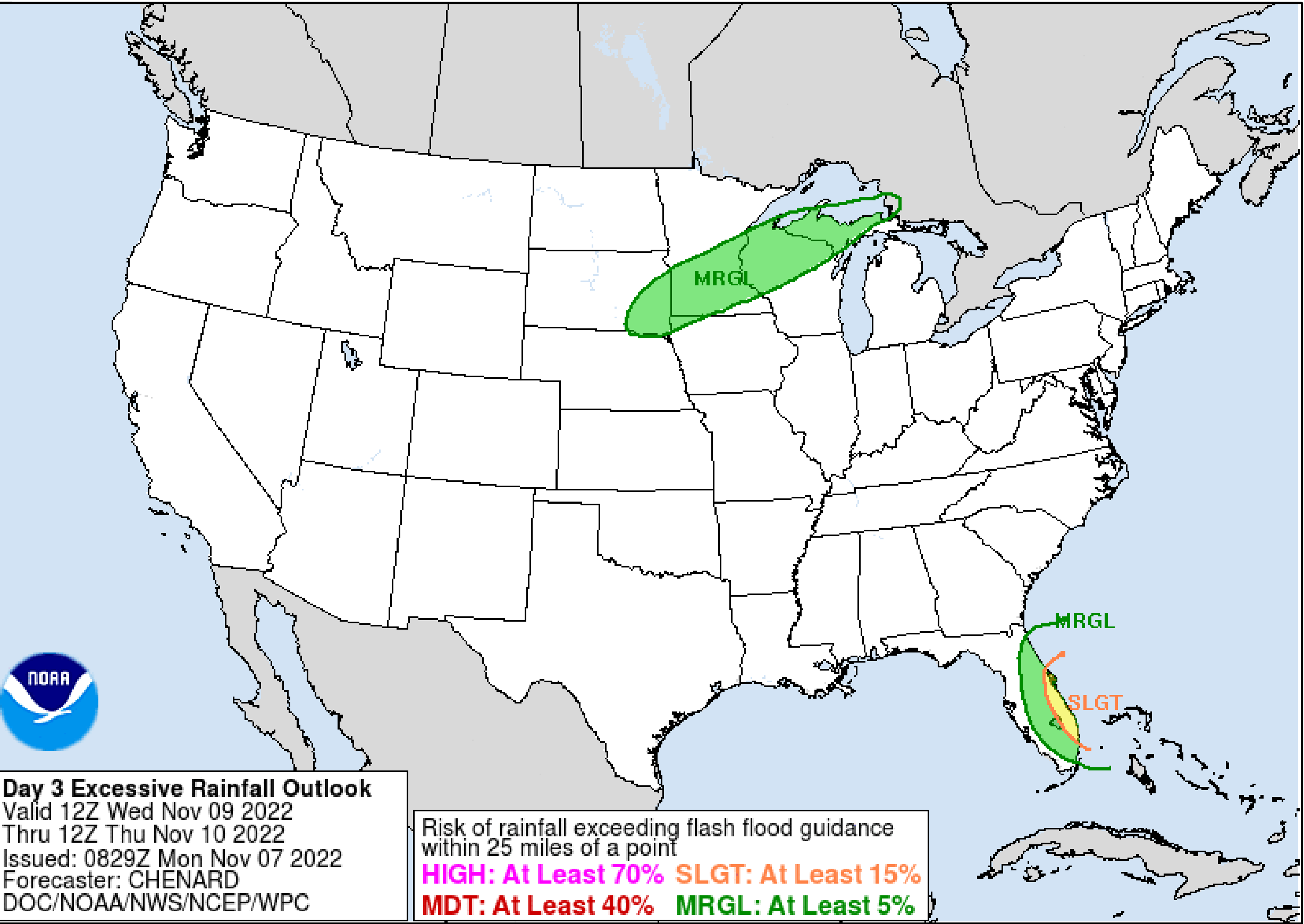
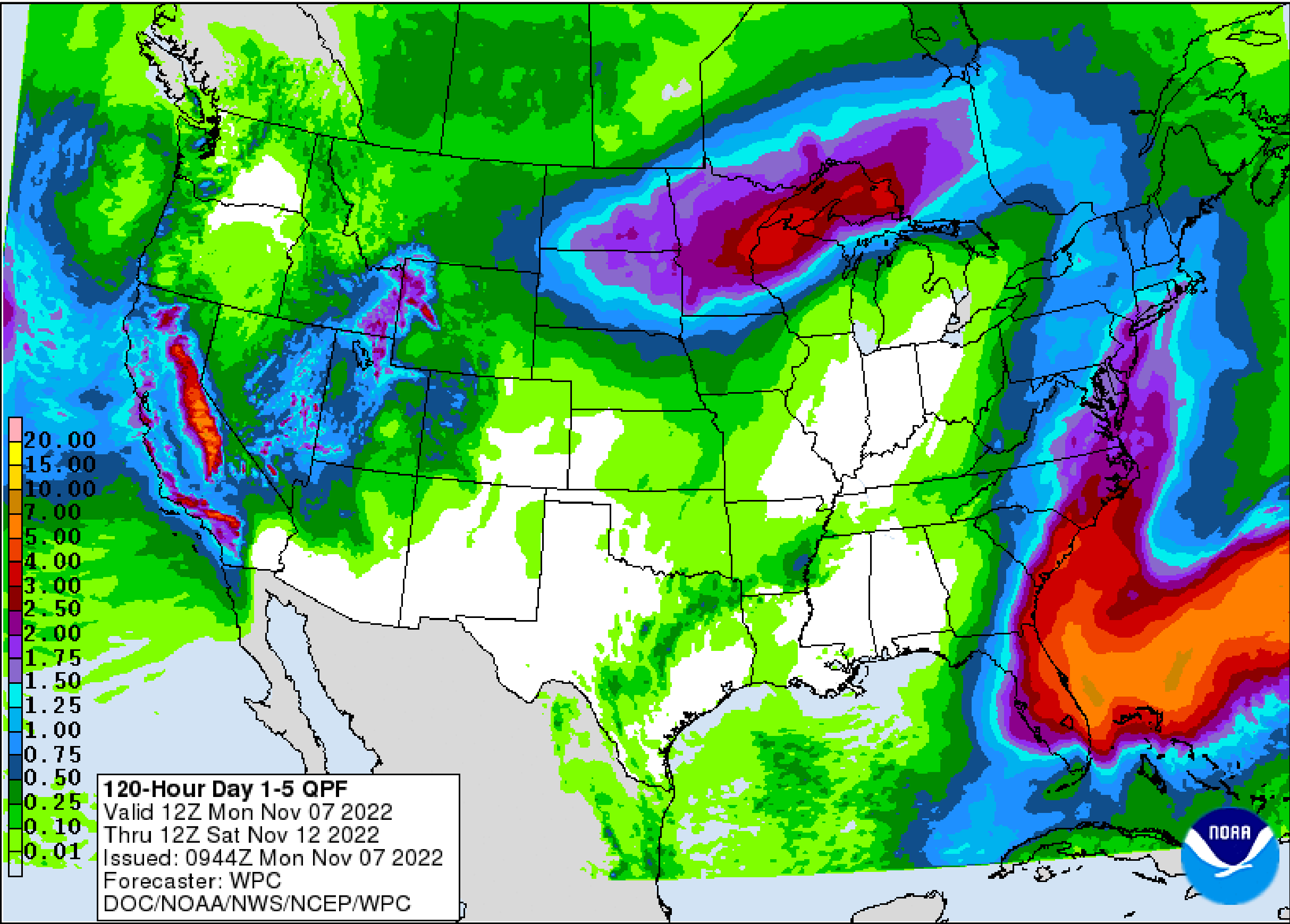
- **Storm surge watches** are anticipated later today, as early as 10 AM EST
- If Nicole is at or near hurricane strength, this will bring a potentially dangerous storm surge

Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Subtropical Storm Nicole Images from NWS Weather Prediction Center



- Total rainfall in inches valid through Saturday morning

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 Thursday morning

Key Messages

Subtropical Storm Nicole



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Subtropical Storm Nicole

Advisory 1: 5:00 AM AST Mon Nov 07, 2022

1. Nicole is forecast to be a large storm, and regardless of its exact path, widespread impacts from a prolonged period of coastal flooding, tropical-storm-force winds, heavy rainfall, rough surf and rip currents, and beach erosion are likely along much of the southeastern United States coast, the Florida east coast, and portions of the northwestern and central Bahamas during much of the upcoming week.

2. Nicole could be at or near hurricane strength when it moves near the northwestern Bahamas and the east coast of Florida Wednesday and Thursday, bringing the potential for a dangerous storm surge, damaging winds, and heavy rainfall to a portion of those areas. A Tropical Storm Watch is now in effect for the northwestern Bahamas, and additional watches could be required for portions of the Bahamas and the coast of Florida later today.

For more information go to hurricanes.gov



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Tornadoes – None

Waves - High

- Marine Key Messages: Expect tropical storm conditions.
- Seas currently 15 ft, expected to build to 20-25 ft north of the Bahamas to Cape Hatteras Tuesday-Wednesday
- Conditions will subside by Friday



SUBTROPICAL STORM NICOLE BRIEFING

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

*The Next Briefing Will Be:
Tuesday 8:15 AM EST*

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



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