IMPACTS FOR D7 (through next 5 days)

Winds - High

Storm Surge - Moderate

Rainfall/Flash Flooding - Moderate

Tornadoes – Moderate

Waves - High

TROPICAL STORM NICOLE BRIEFING



4:00 PM EST

Wednesday, November 9, 2022

Prepared by:

Scott Stripling

Tropical Analysis and Forecast Branch
NWS National Hurricane Center

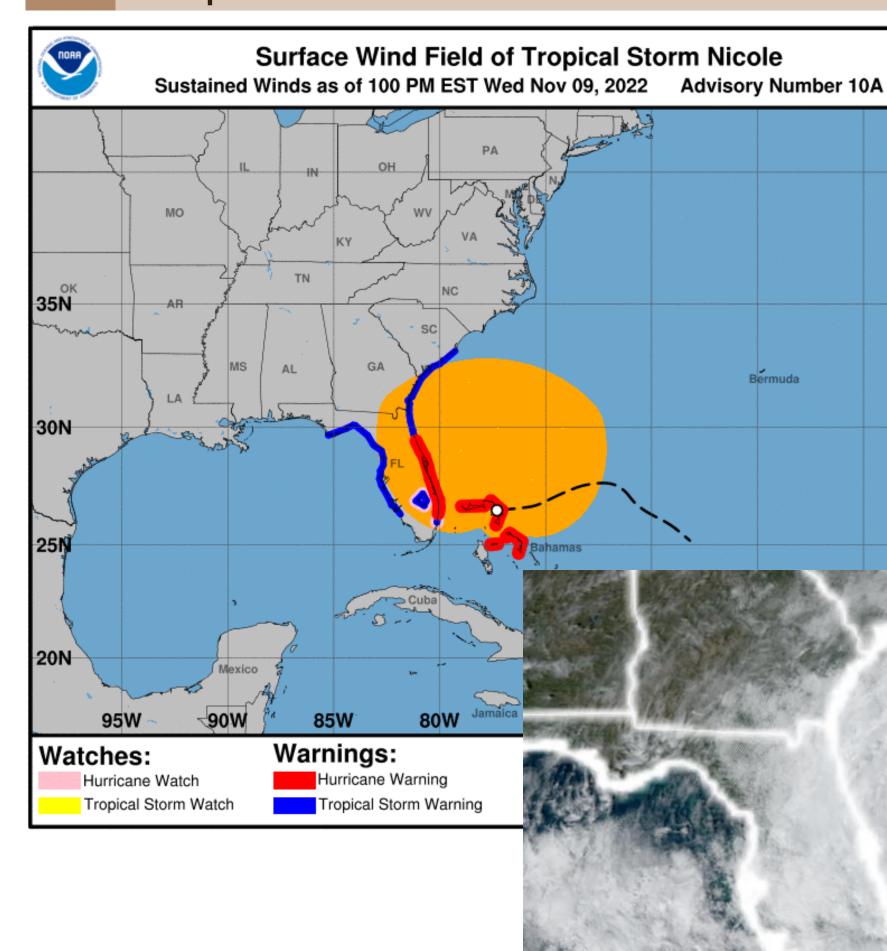


Situation Overview

Tropical Storm Nicole



Tropical Analysis and Forecast Branch NWS National Hurricane Center



...CENTER OF NICOLE PASSES OVER GREAT ABACO...

Summary Information as of 1:00 PM EST...

LOCATION...26.5N 77.3W ABOUT 150 NM E OF WEST PALM BEACH FL MAXIMUM SUSTAINED WINDS...60 KT PEAK SEAS...33 FT PRESENT MOVEMENT...WSW OR 265 DEGREES AT 10 KT MINIMUM CENTRAL PRESSURE...985 MB

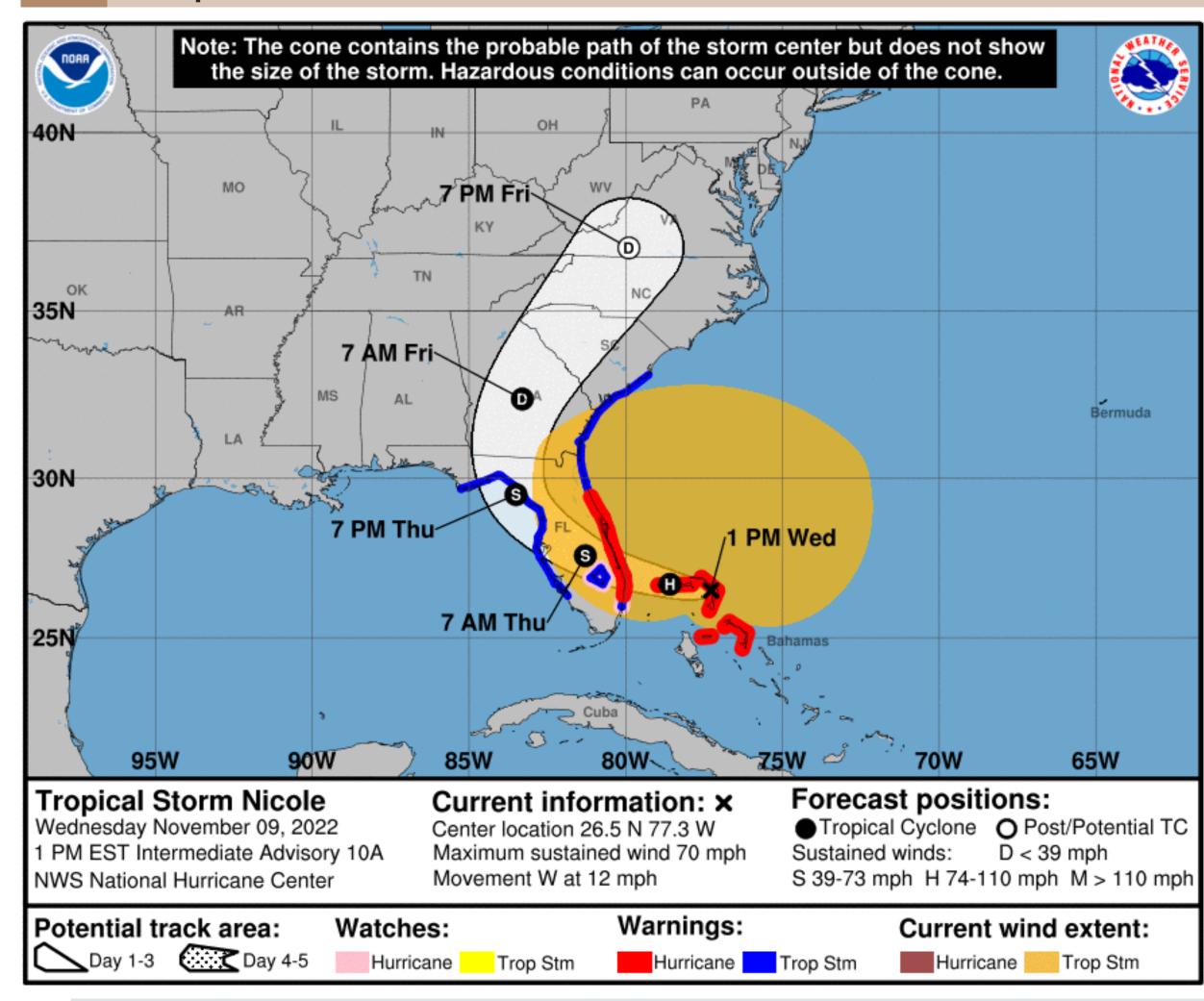
SIZE:

34 KT WIND RADII: 360NE 90SE 60SW 390NW 12 FT SEA RADII: 600NE 180SE 210SW 390NW

Forecast Information

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole



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

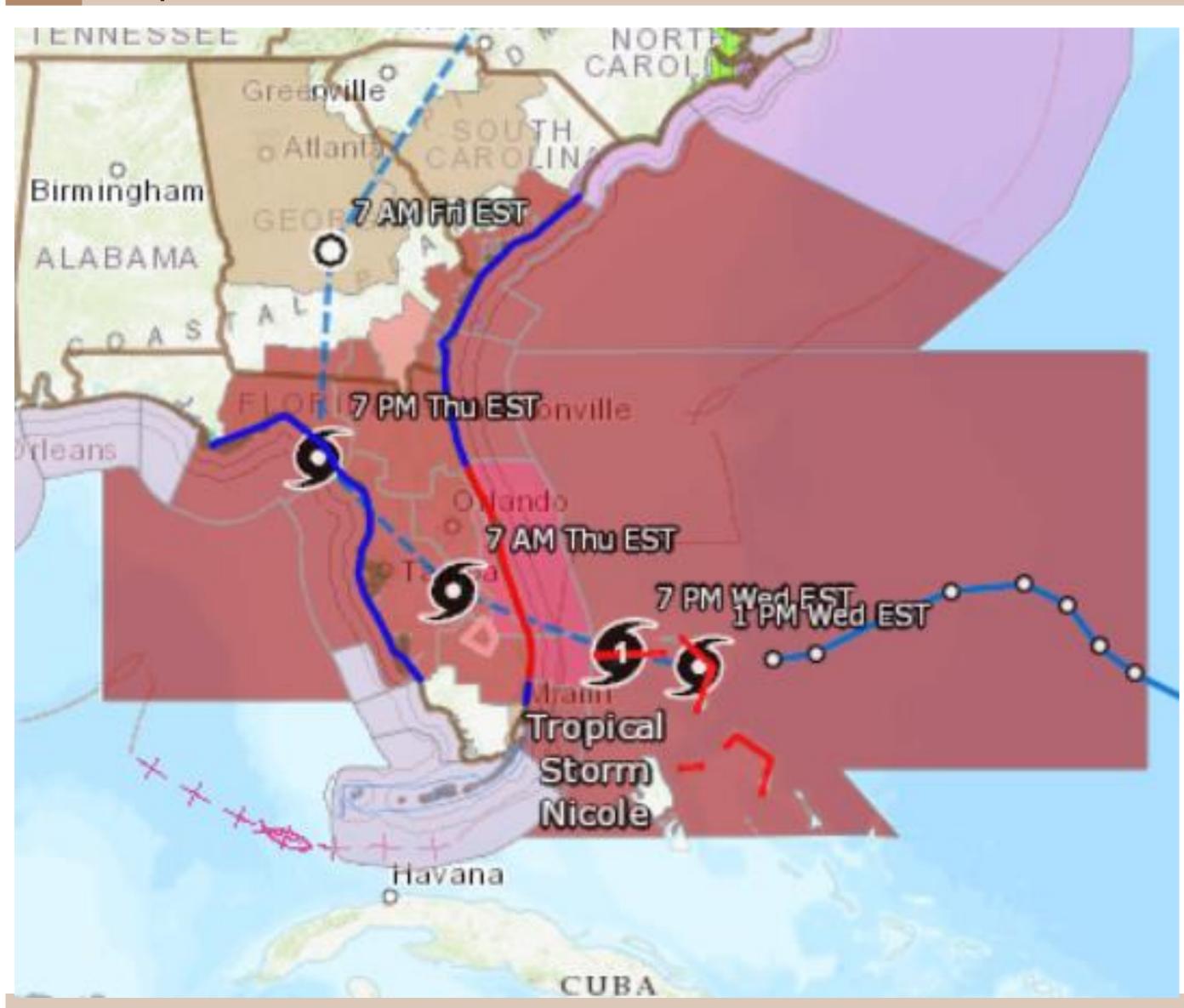
- Tropical Storm Nicole is forecast to move WNW tonight and gradually turn to the N across the Florida Big Bend by Thu night.
- Nicole will make landfall as a high end tropical storm or Cat I hurricane tonight in the Ft Pierce-Palm Beach area.
- However, wind, surge, and wave impacts will extend far 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 3 days illustrated by dots
- 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



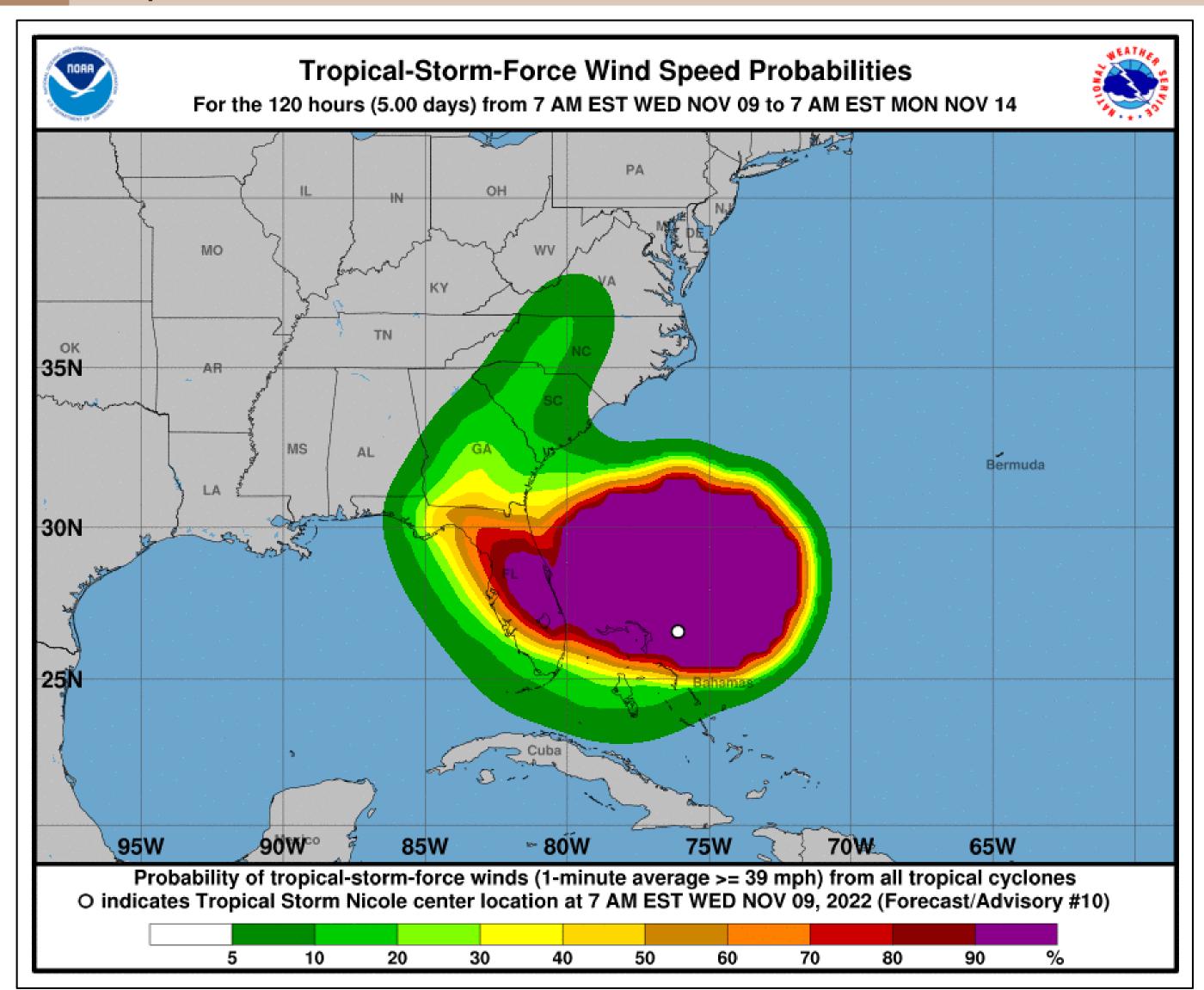




https://nowcoast.noaa.gov/

T.S. Wind Speed Probabilities

Tropical Storm Nicole





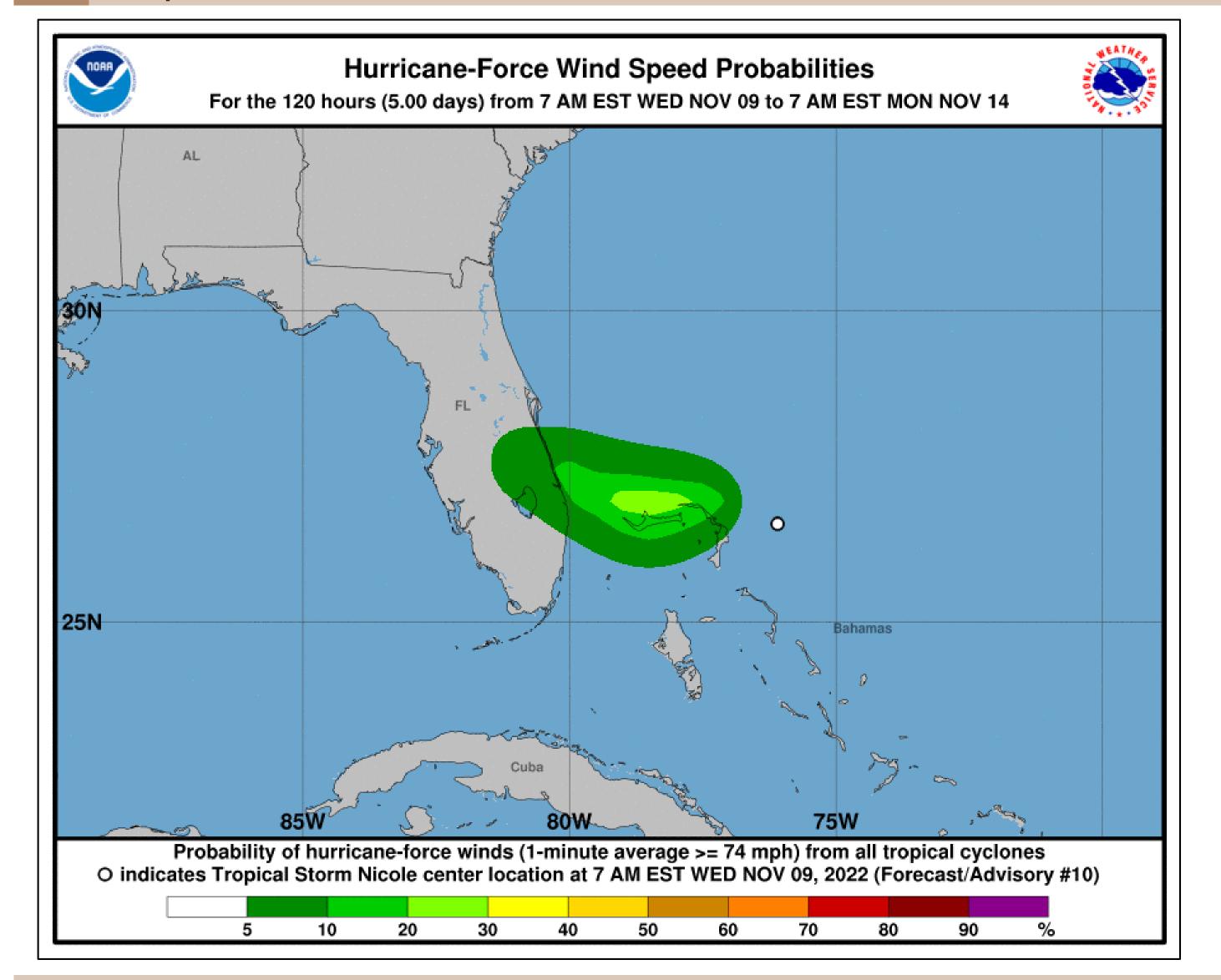
- Miami 30%
- Ft. Lauderdale 50%
- Palm Beach 80%
- Ft. Pierce 100%
- Patrick AFB 95%
- Cocoa Beach 95%
- Daytona Beach 95%
- Jacksonville 50%
- Mayport 45%
- Kings Bay 40%
- St. Marks 55%
- Cedar Key 70%
- **Tampa 65%**
- Venice 35%
- Ft. Myers 35%
- Naples 25%
- Probabilities of sustained tropical 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



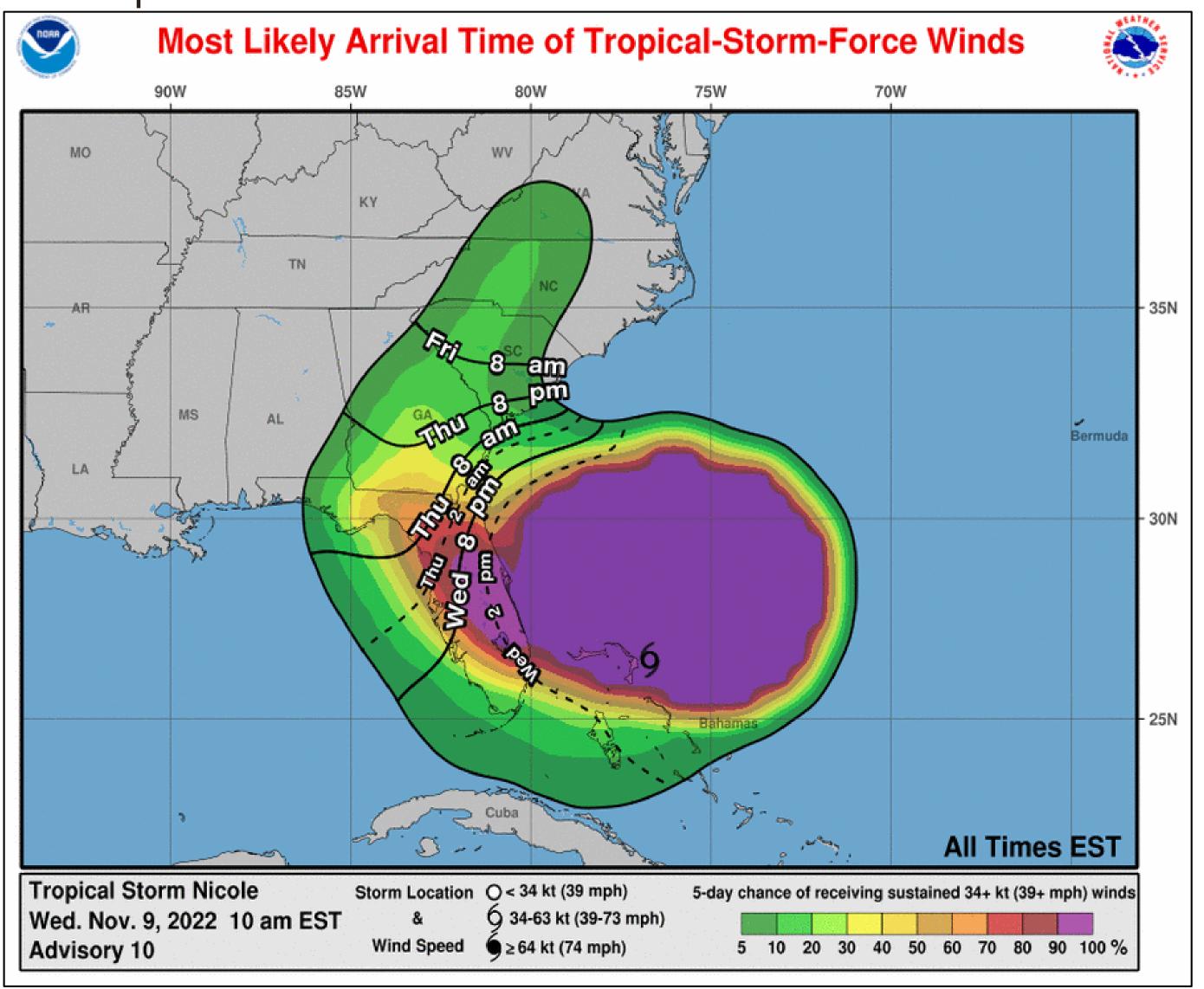
Tropical Analysis and Forecast Branch NWS National Hurricane Center



■ 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.

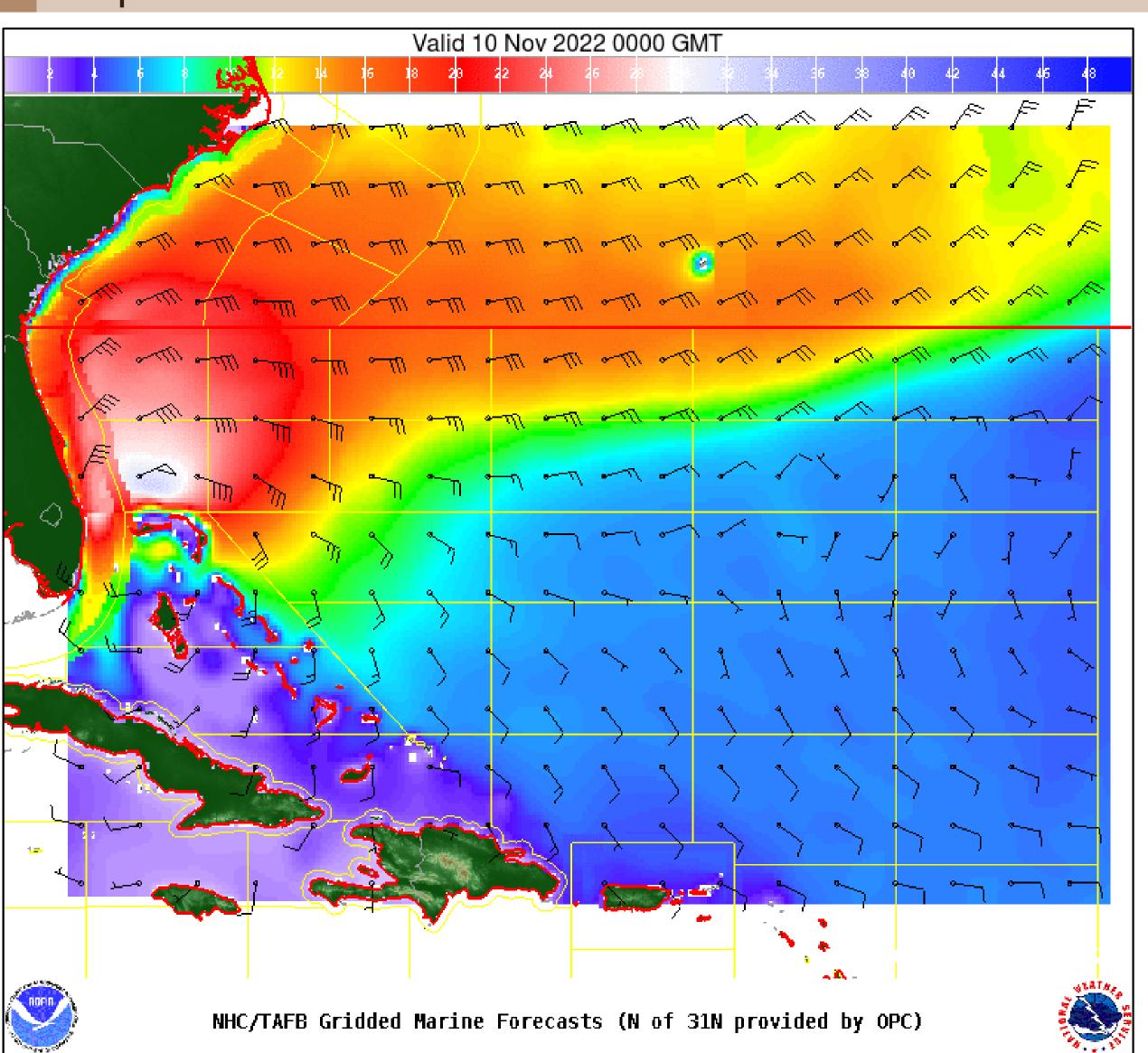
Tropical Storm Nicole



- SE and East Central Florida presently
- West Florida and NE Florida tonight
- Georgia tonight around midnight
- Florida Big Bend Thu morning
- 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.

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole



Nowcast

7 PM Wed Nov 9

Peak Winds: 65 kt

Peak Seas: 33 ft

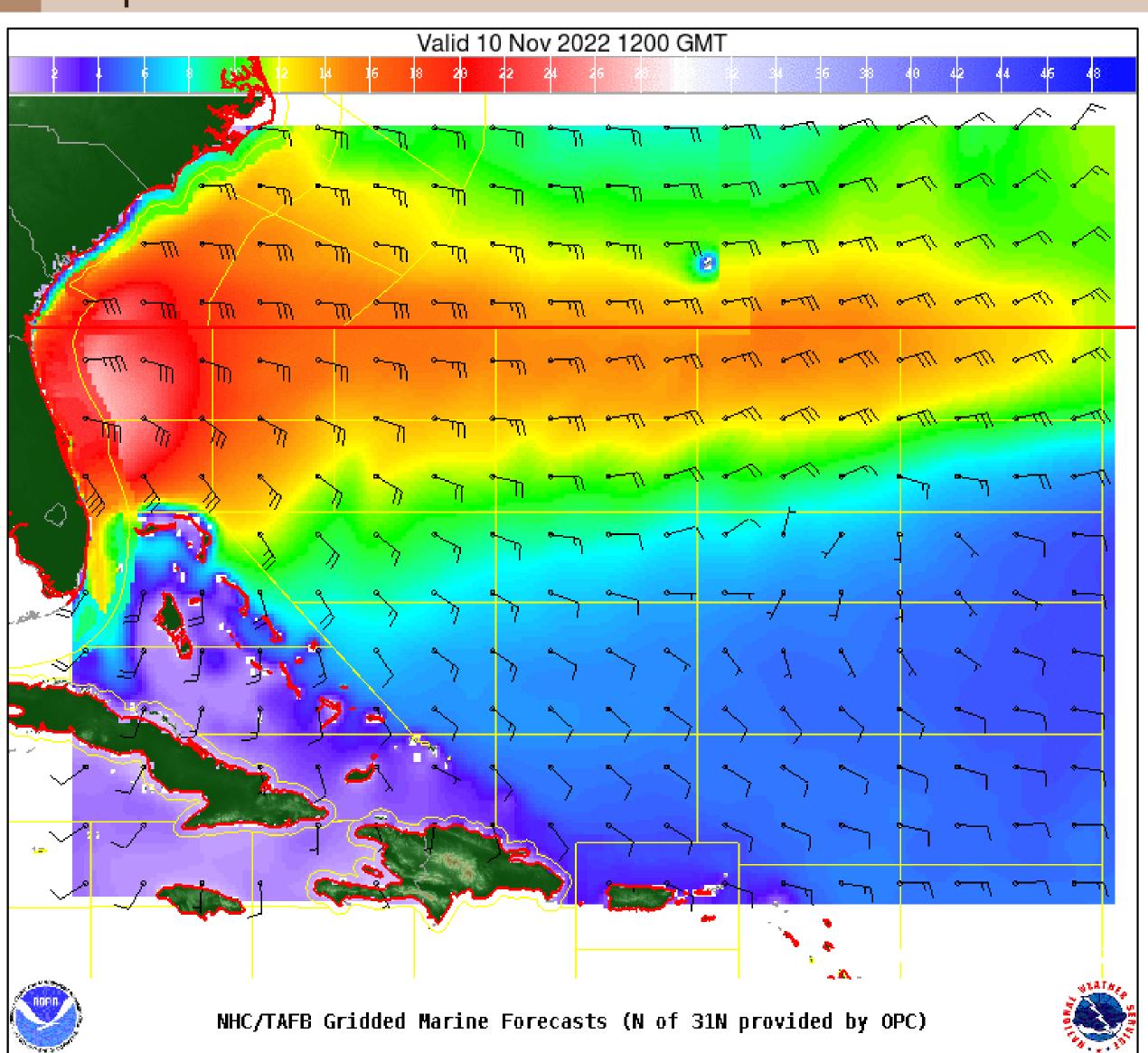
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole



18 Hour Forecast

7 AM Thu Nov 10

Peak Winds: 55 kt

Peak Seas: 25 ft

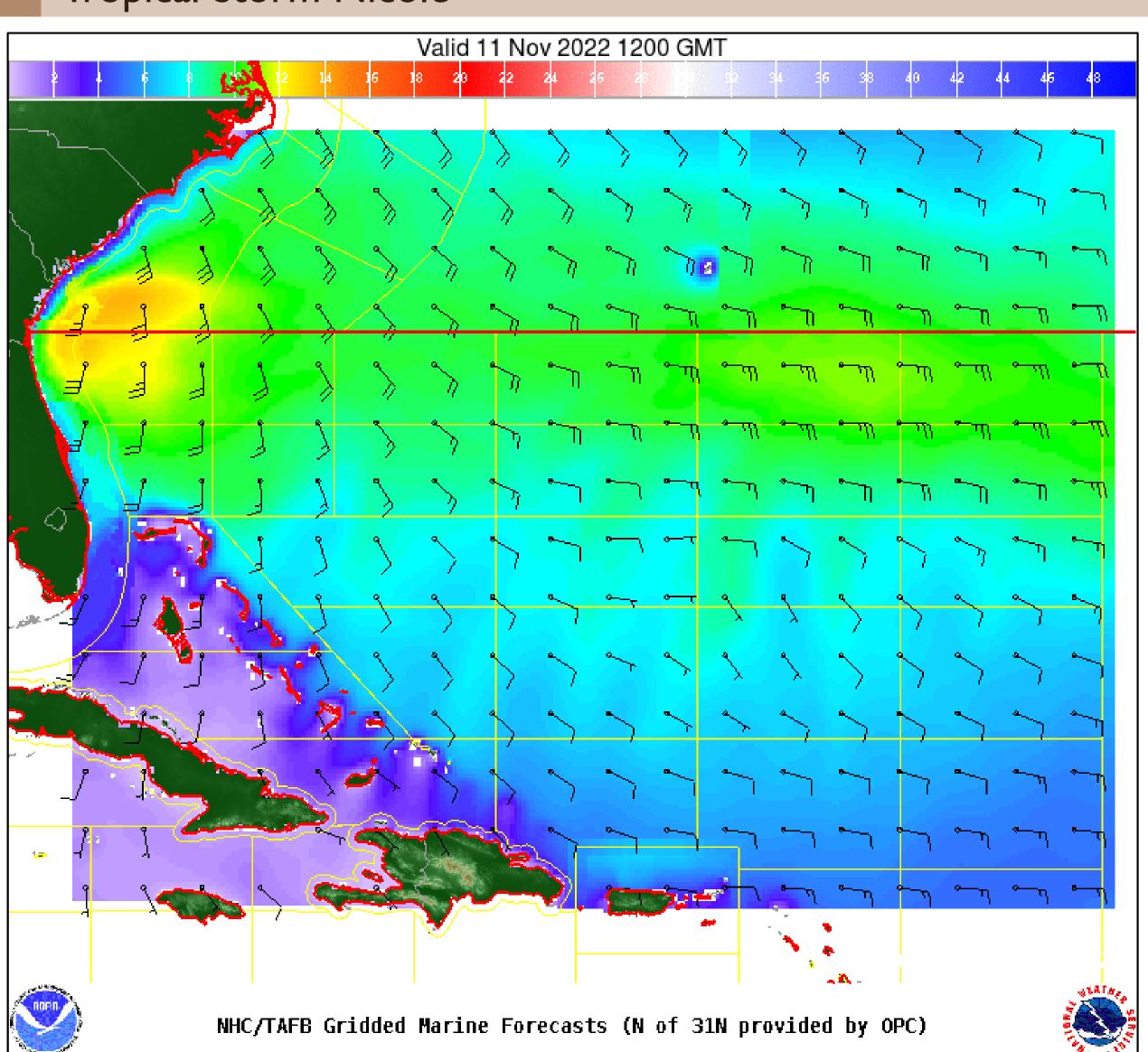
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole



42 Hour Forecast

7 AM Fri Nov II

Peak Winds: 30 kt

Peak Seas: 14 ft

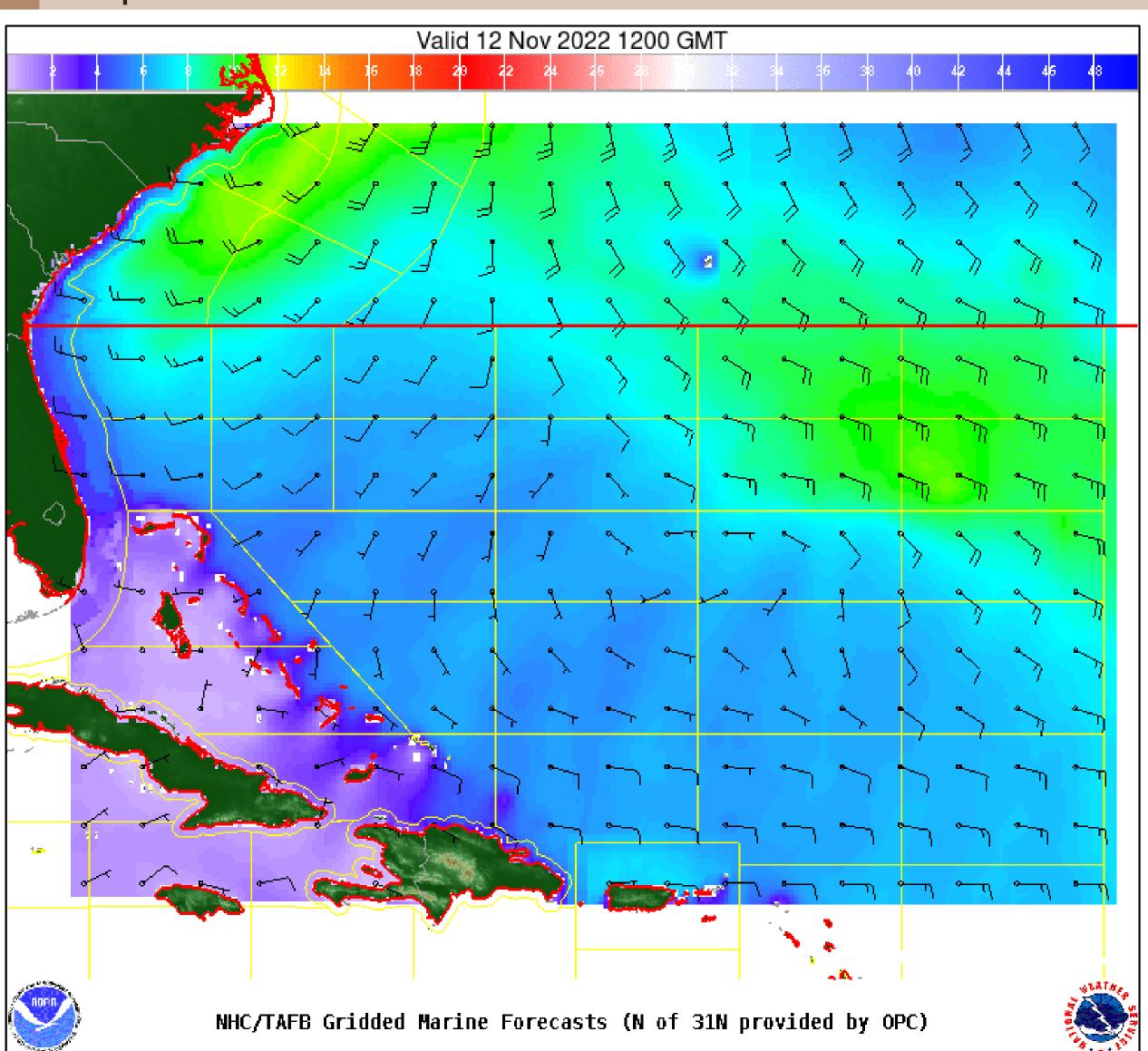
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole



66 Hour Forecast

7 AM Sat Nov 12

Peak Winds: 30 kt

Peak Seas: 10 ft

Wave heights are in feet



Significant Wave Height (ft)



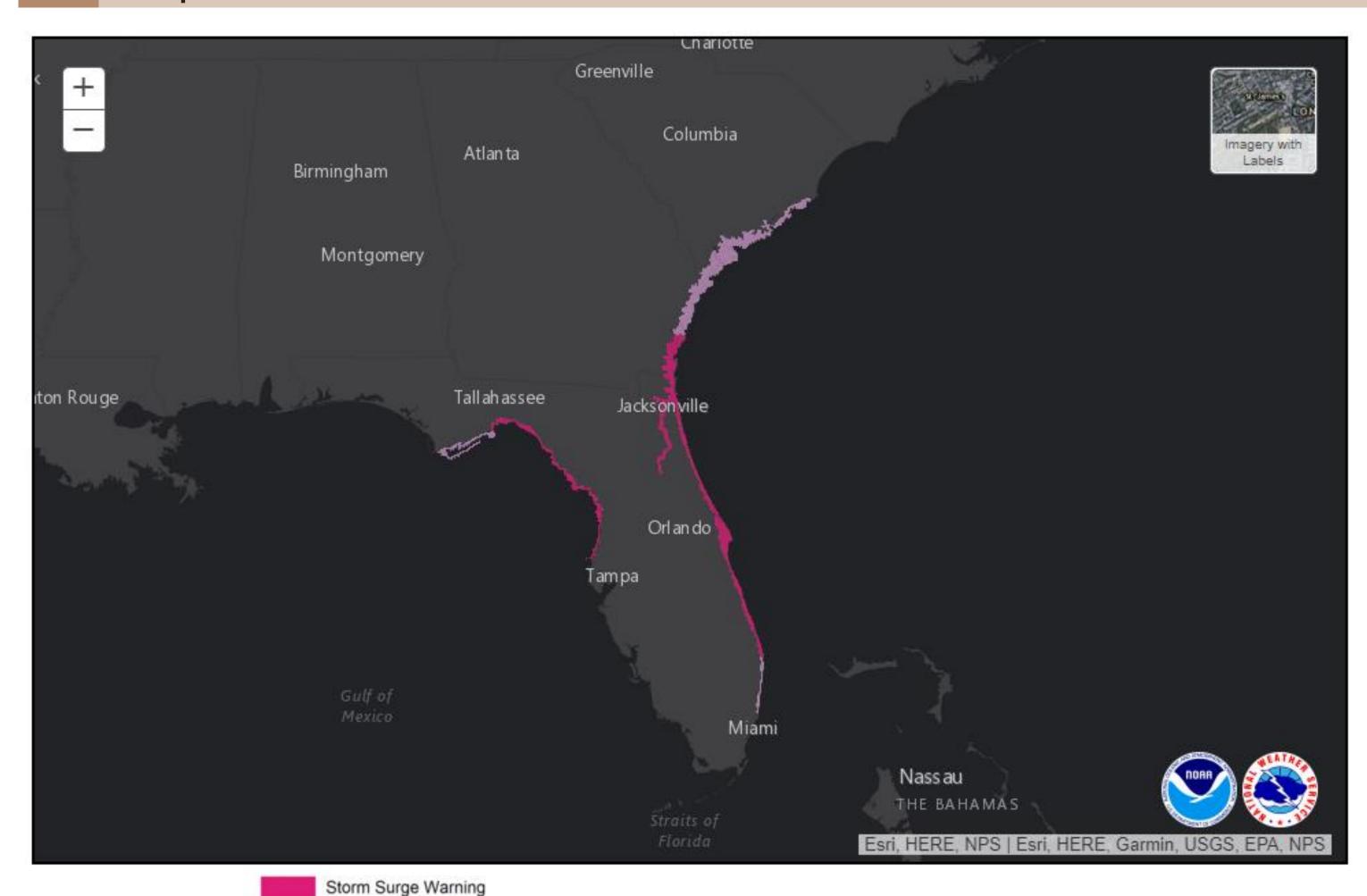
- St. Marks Thursday night
- Cedar Key Thursday afternoon
- Tampa Thursday afternoon

- Ft. Lauderdale Thursday morning
- Palm Beach Thursday morning
- Ft. Pierce Thursday morning
- Patrick AFB Thursday noon
- Cocoa Beach Thursday noon
- Daytona Beach Thursday afternoon
- Jacksonville Thursday evening

Storm Surge Watch

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole



A Storm Surge Warning is in effect for...

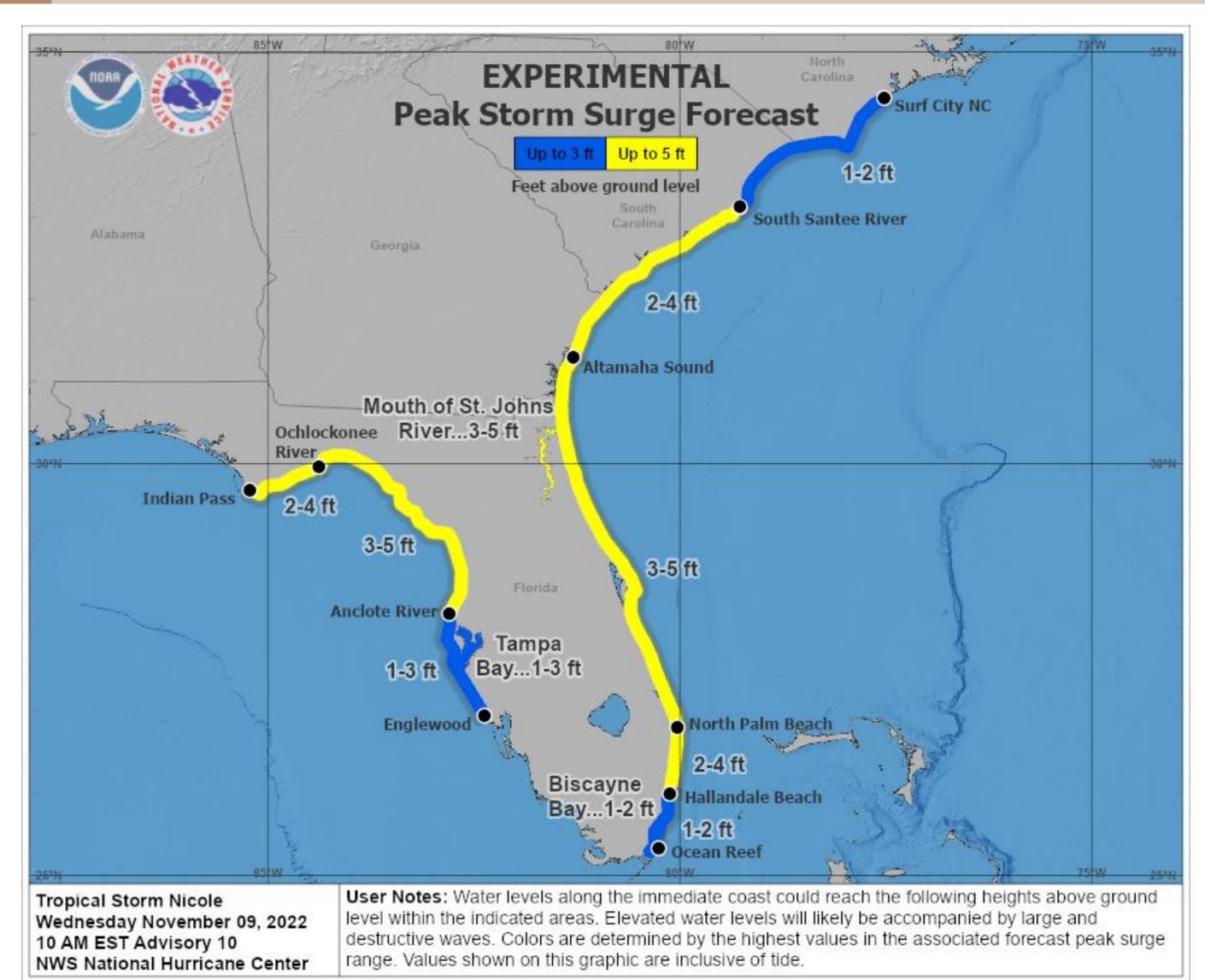
- Anclote River Florida to Ochlockonee
 River Florida
- North Palm Beach Florida to Altamaha Sound Georgia
- Mouth of the St. Johns River to Georgetown Florida

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





- 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.

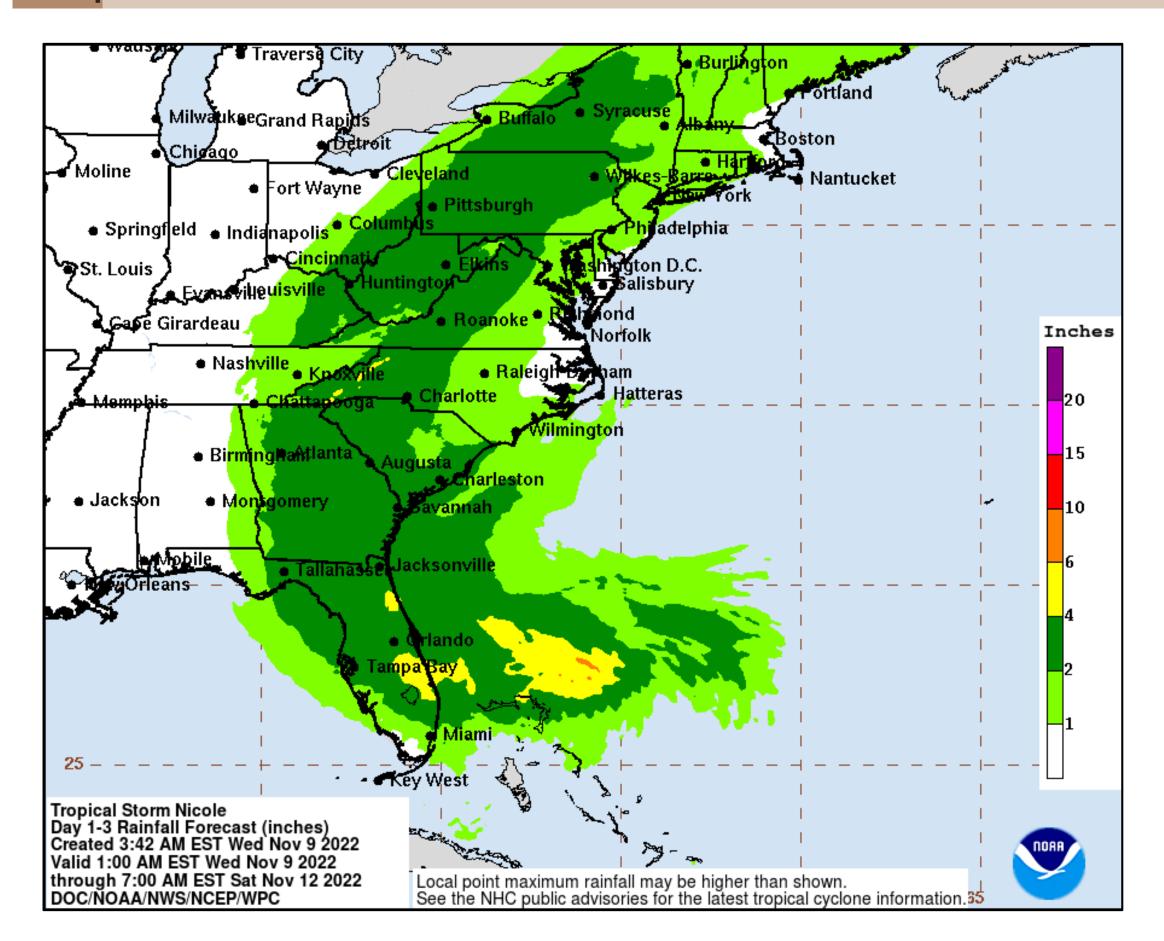
Expected Storm Total Rainfall and Chance of Rainfall Flooding

SERVIN X 333K

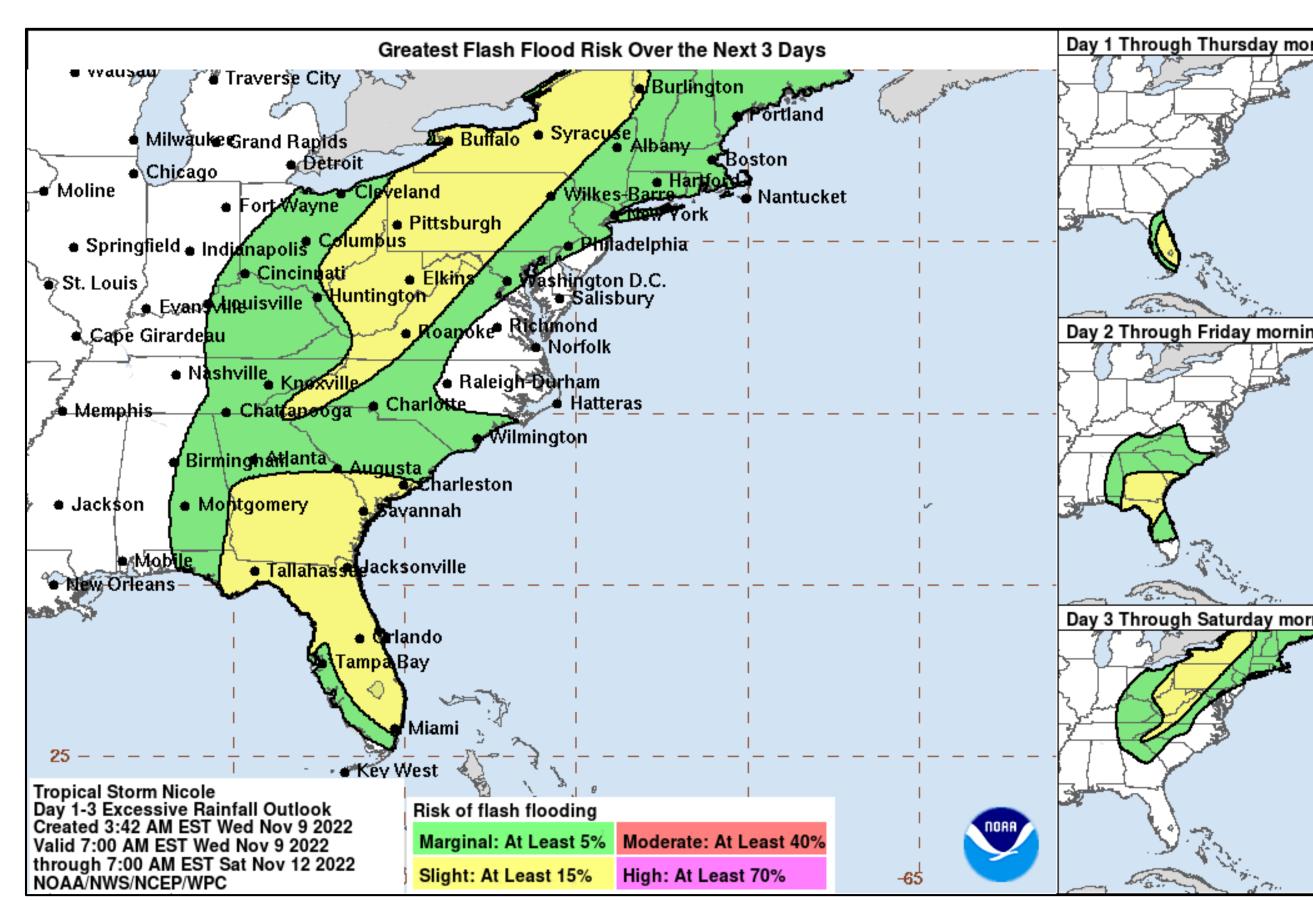
Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Nicole

Images from NWS Weather Prediction Center



Valid through 7 AM Sat Nov 12



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

HIGH: > 50% SLGT: 10%-20%

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

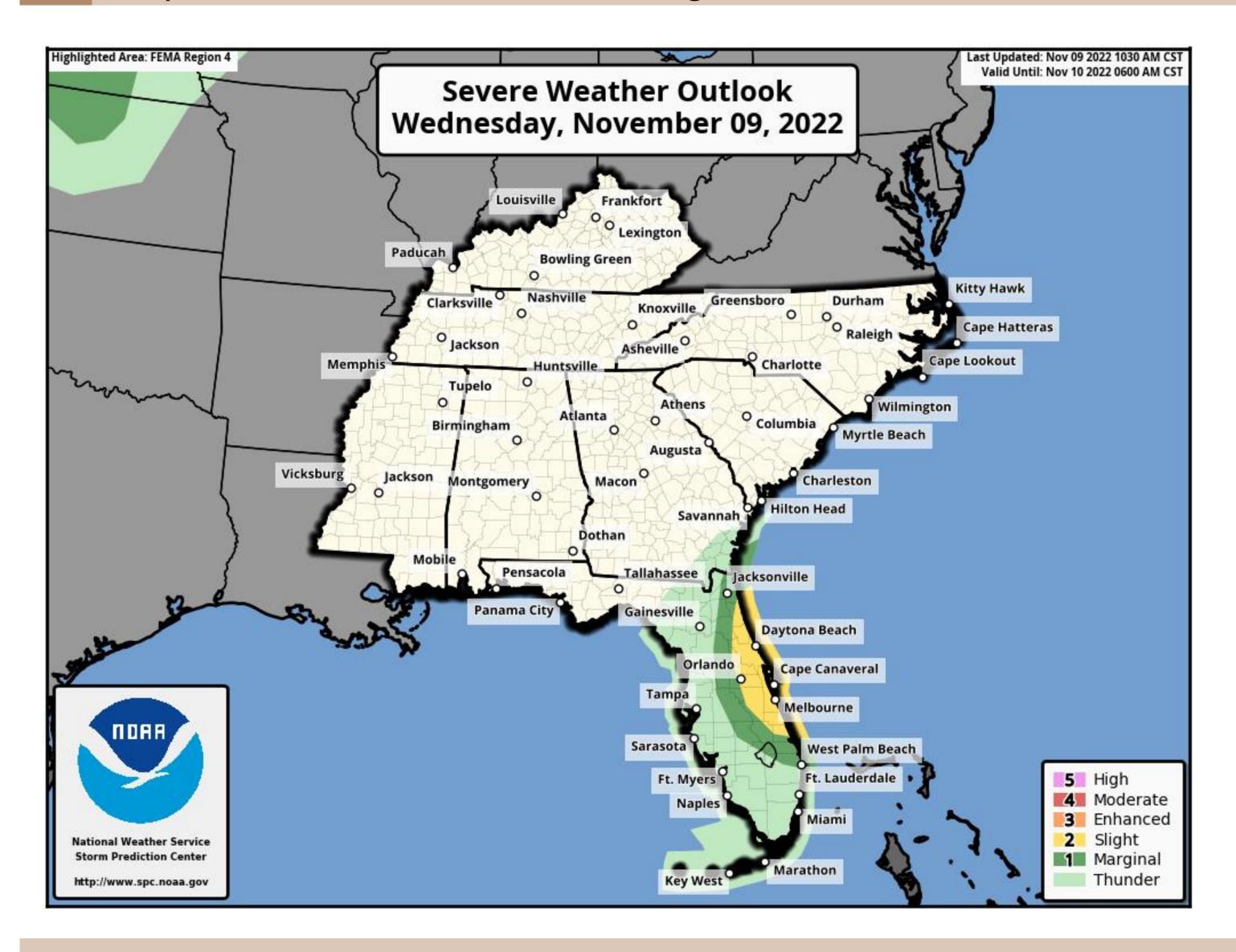
Valid through 7 AM Sat Nov 12

Tornado Outlook – Day I

Tropical Storm Nicole

Image from NWS Storm Prediction Center





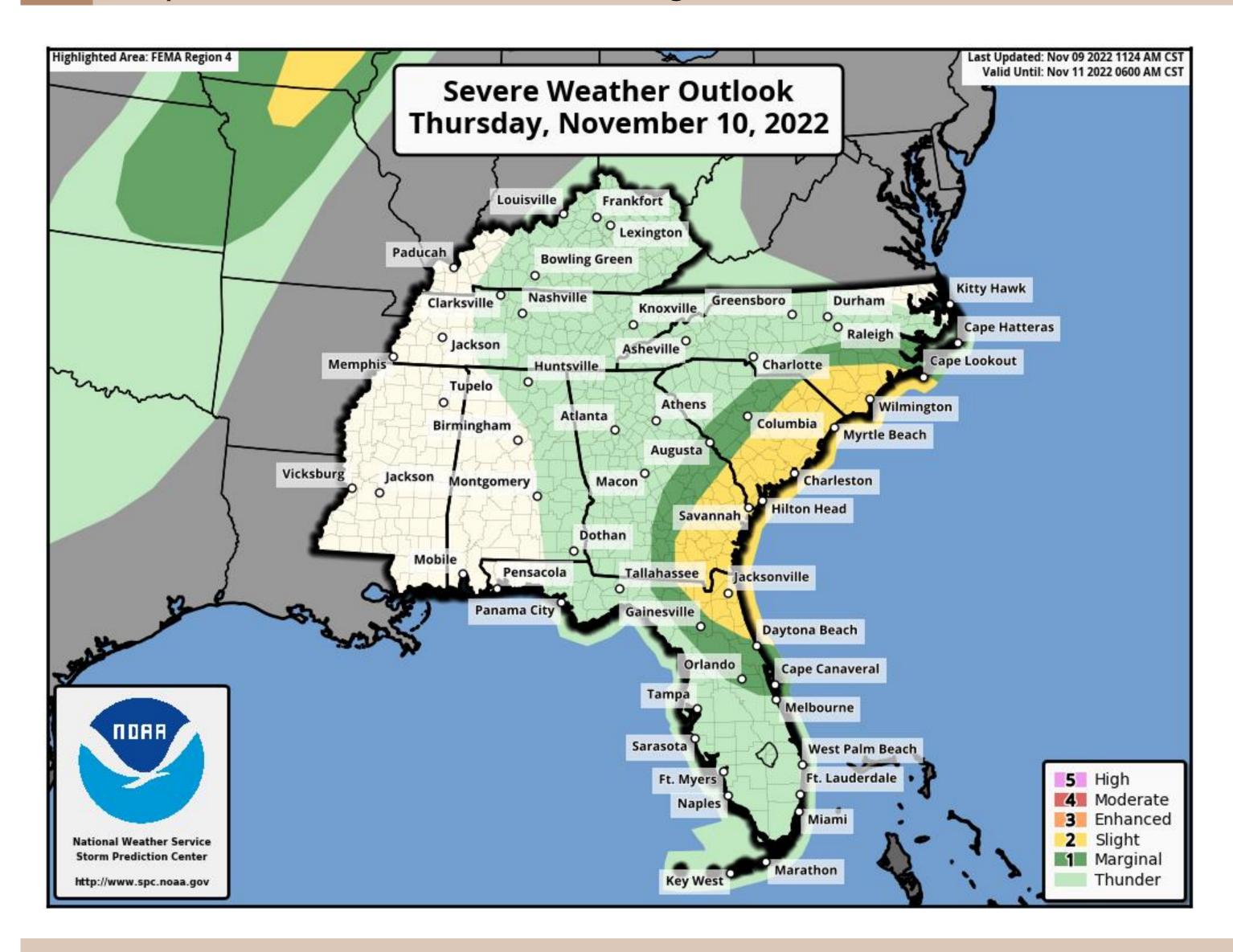
Tornado Outlook – Day 2

Tropical Storm Nicole

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Tropical Storm Nicole



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Key Messages for Tropical Storm Nicole Advisory 10: 10:00 AM EST Wed Nov 09, 2022

- 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, 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.
- 4. 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 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 possible across portions of the Florida Peninsula along with 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.





For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – Moderate

Rainfall/Flash Flooding - Moderate

Tornadoes – Moderate

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: Thursday 9:00 AM EDT

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