



Tropical Update



5:00 PM EST

Wednesday, November 9, 2022

Tropical Storm Nicole

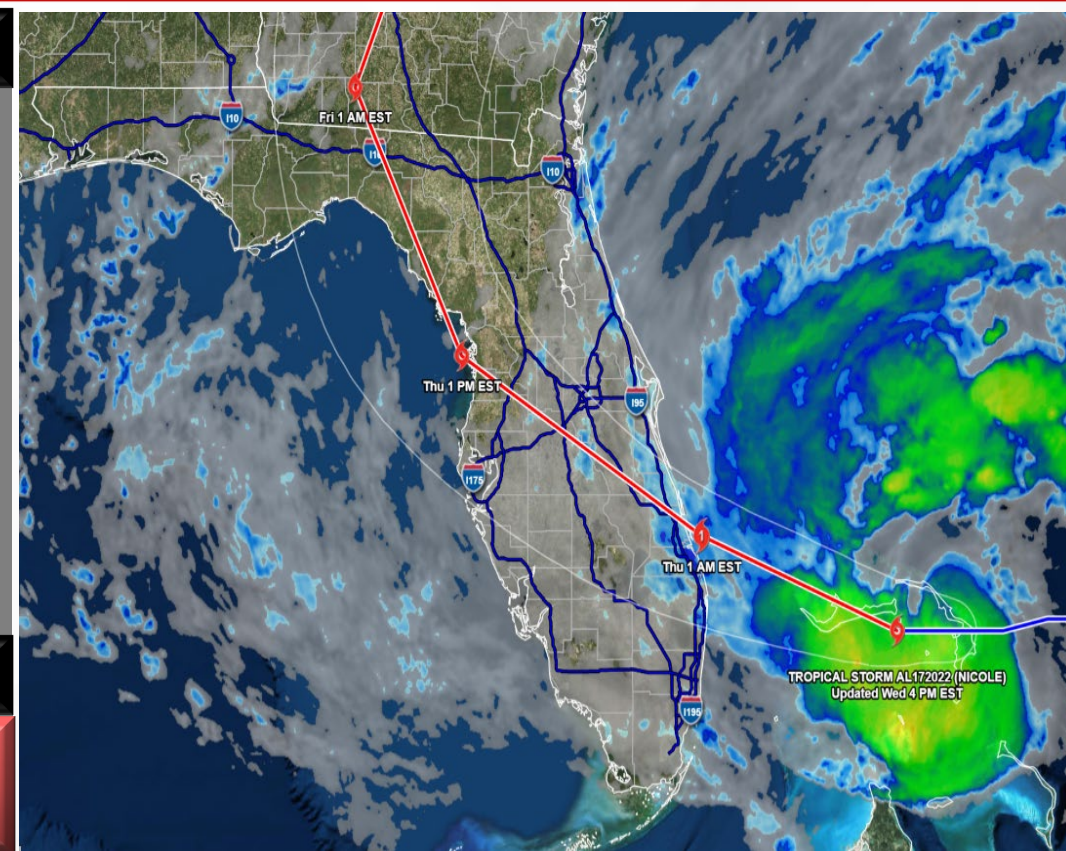
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office, or visit the National Hurricane Center website at www.hurricanes.gov.



Tropical Storm Nicole

5 PM EST Wednesday: Florida Threats & Changes Since Last Packet

	MINIMAL	Low	MODERATE	HIGH	EXTREME
 WINDS					
 STORM SURGE					
 FLASH FLOODING					
 TORNADOES					
	Low	MODERATE	HIGH		
 RIP CURRENTS					

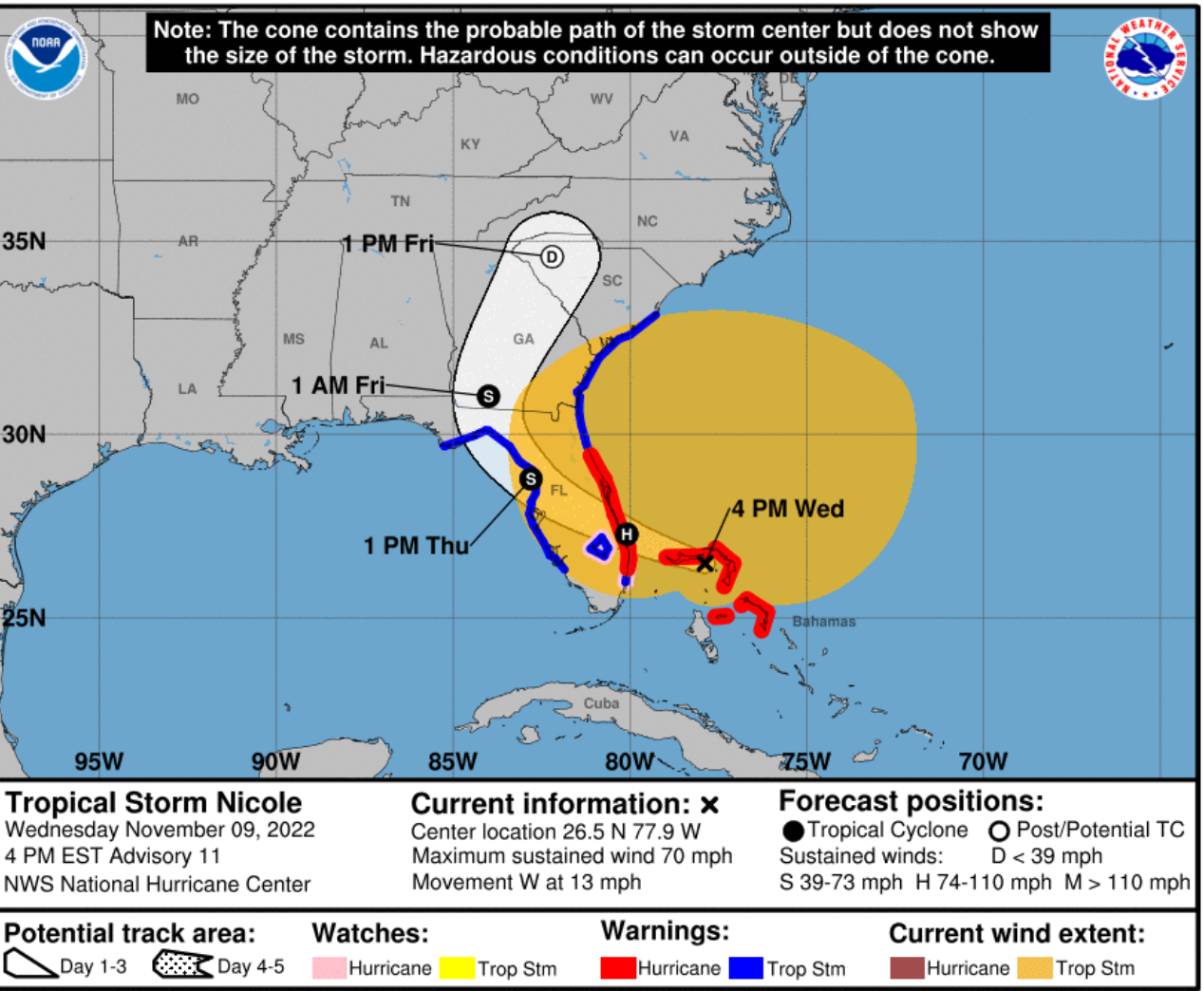


Overview/Recent Changes: Tropical Storm Nicole max winds remains at 70 mph with the 4 PM EST Advisory. Landfall is expected to occur overnight along the Treasure Coast. Hurricane Warnings remain in effect for 6 counties & Tropical Warnings in effect for 48 additional counties. Tropical Storm Watch for Miami-Dade discontinued. Coastal flood impacts from Nicole will continue to deteriorate tonight and Thursday morning, and damaging winds are expected to expand across much of the Florida Peninsula overnight. There is a risk of life-threatening storm surge, significant coastal erosion, damaging winds, and flooding with this system. As Nicole's outer rain bands continue to push over the East Coast of Florida and Peninsula today, isolated tornadoes will be possible within the more organized bands of shower and thunderstorm activity.



Forecast Cone

Tropical Storm Nicole



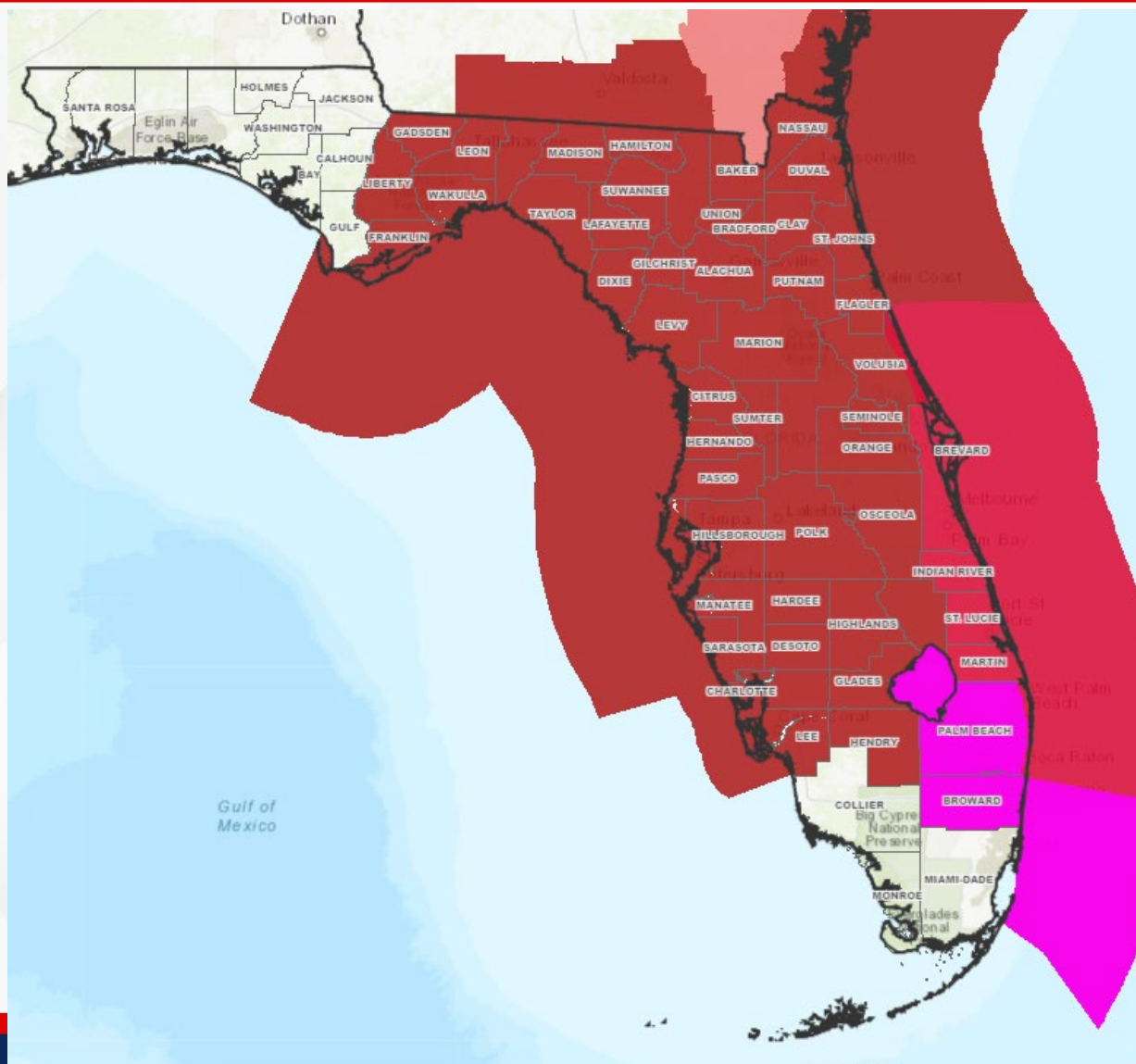
Location: 135 miles east of West Palm Beach, Florida
Maximum Winds: 70 mph
Movement: W at 13 mph

Some strengthening is expected this evening, and Nicole is forecast to become a hurricane before it reaches the east coast of Florida within the hurricane warning area tonight. A turn toward northwest across central and northern Florida is expected on Thursday, followed by a north or north-northeast on Friday. While Nicole is expected to weaken while moving across Florida, **it will remain a large tropical storm.** Tropical storm-force winds extend outward up to 485 miles, especially to the north of center. Even if the center of Nicole emerges for a time over the northeastern Gulf of Mexico, significant re-intensification is not expected. Nicole is forecast to weaken further over the southeastern United States, and then dissipate along a frontal zone moving into the eastern United States by Friday evening.



Active Tropical Watches/Warnings

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- **Hurricane Warning**
 - Counties: Coastal Palm Beach, Martin, St. Lucie, Indian River, Brevard, Coastal Volusia
- **Hurricane Watch**
 - Counties: inland Palm Beach and Broward
- **Tropical Storm Warning**
 - Counties: Gadsden, Liberty, Franklin, Leon, Wakulla, Taylor, Madison, Lafayette, Hamilton, Suwannee, Columbia, Union, Baker, Dixie, Gilchrist, Levy, Alachua, Bradford, Clay, Putnam, Nassau, Duval, St. Johns, Flagler, Marion, inland Volusia, Lake, Sumter, Citrus, Hernando, Pasco, Polk, Hillsborough, Pinellas, Manatee, Sarasota, Charlotte, Lee, Hendry, Glades, Highlands, Hardee, Desoto, Broward, inland Palm Beach, Okeechobee, Osceola, Orange, and Seminole



Damaging Wind Threat Overview

Tropical Storm Nicole

The greatest damaging wind threat is mainly along the Space and Treasure Coasts. Damaging wind gusts may also be felt across the majority of Central Florida and into portions of North Florida.

<https://www.weather.gov/srh/tropical?office=mfl>

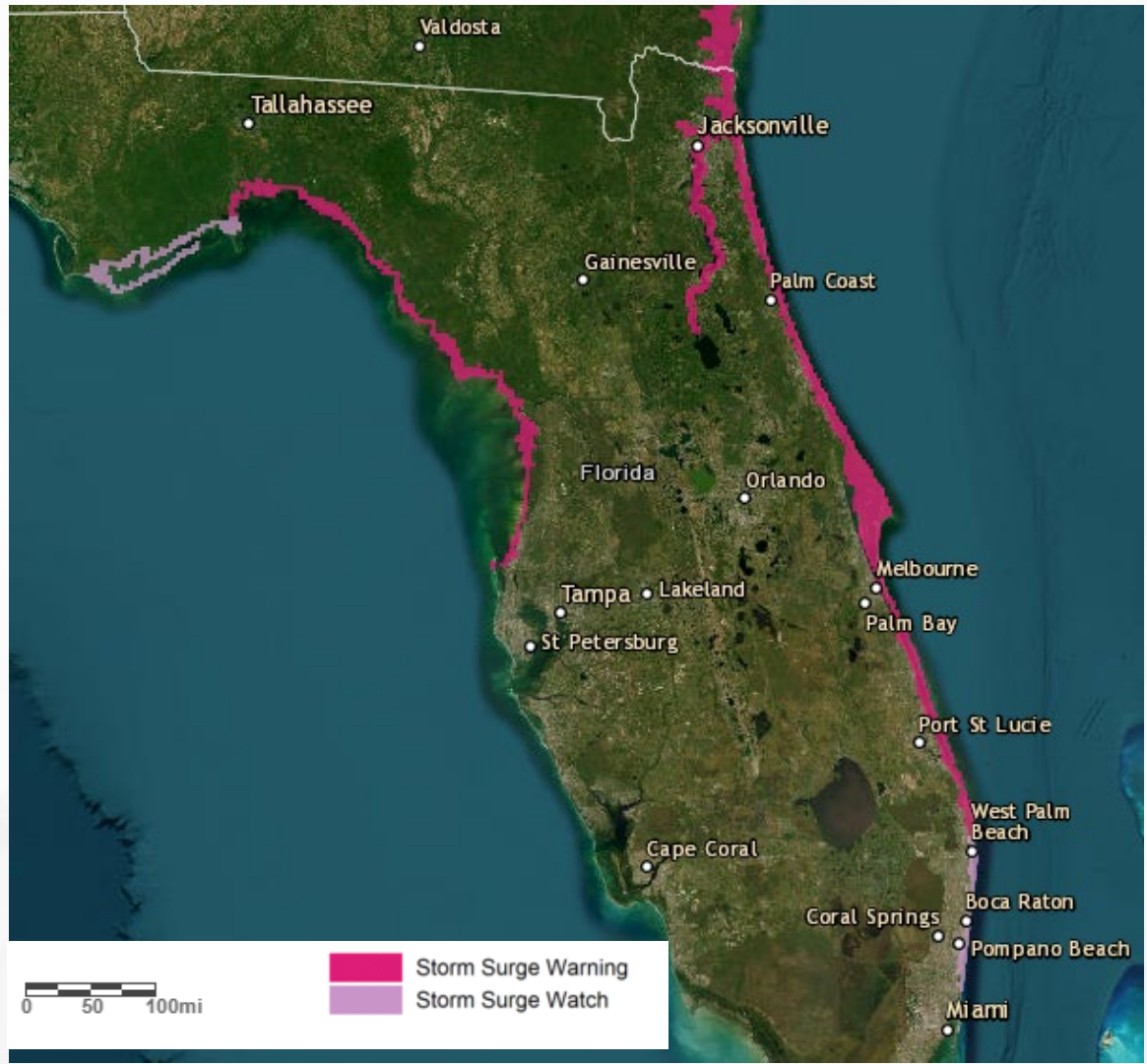
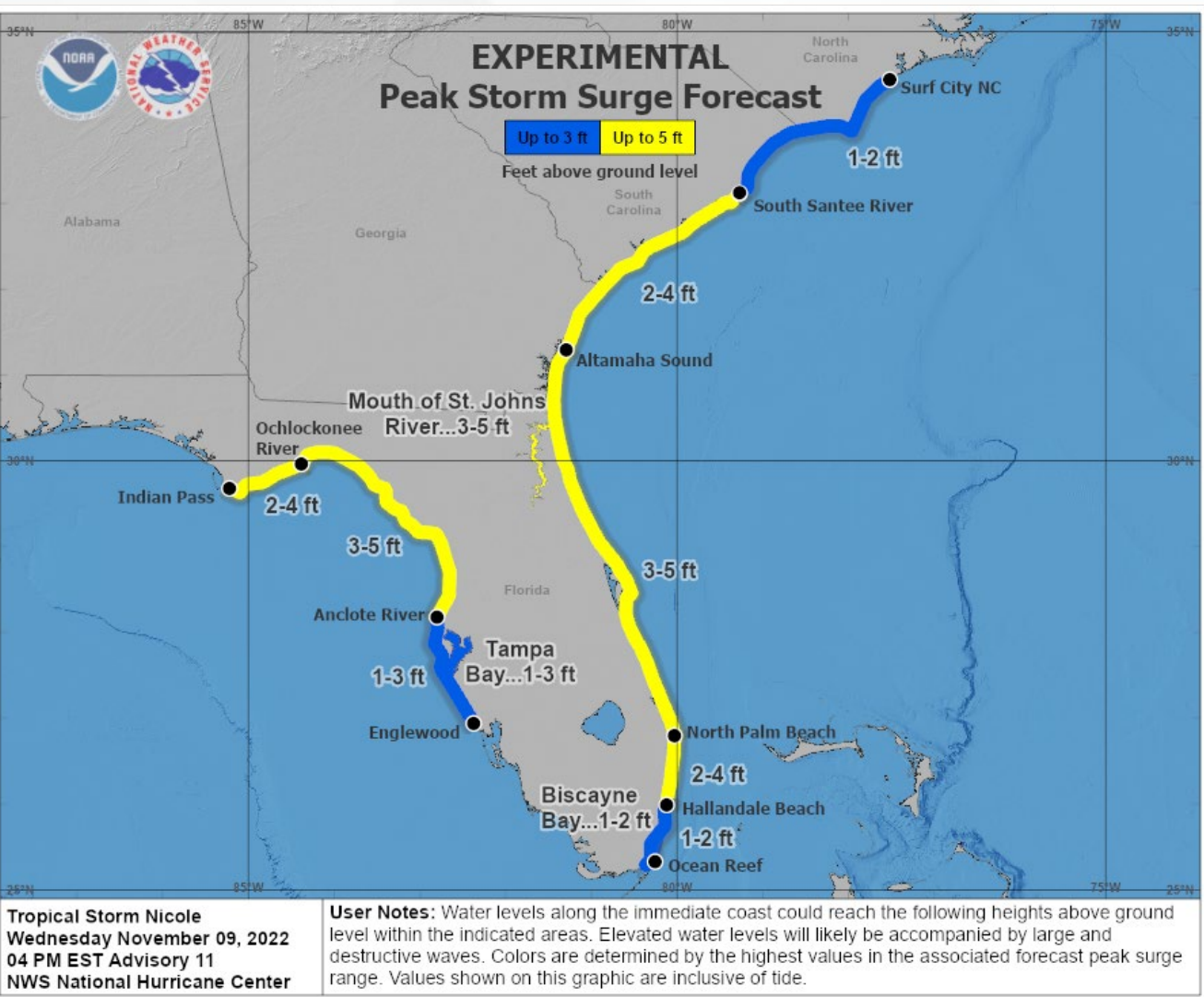
Click on “Threats and Impacts” Tab

Wind Threat
Potential for wind greater than 110 mph
Potential for wind 74 to 110 mph
Potential for wind 58 to 73 mph
Potential for wind 39 to 57 mph
Wind less than 39 mph



Surge Watches and Warnings

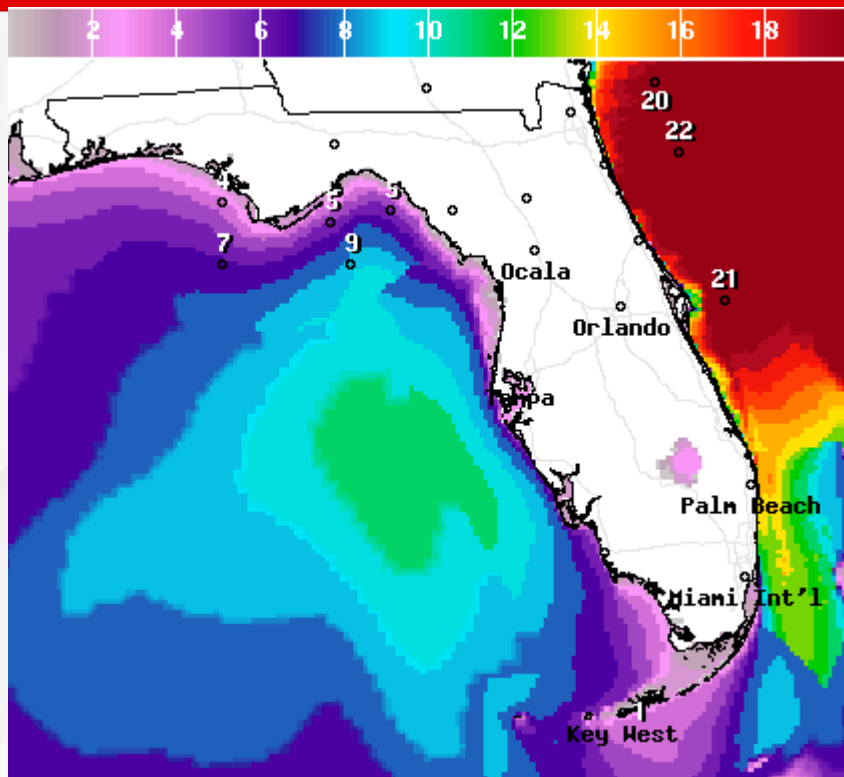
In Effect Until Further Notice



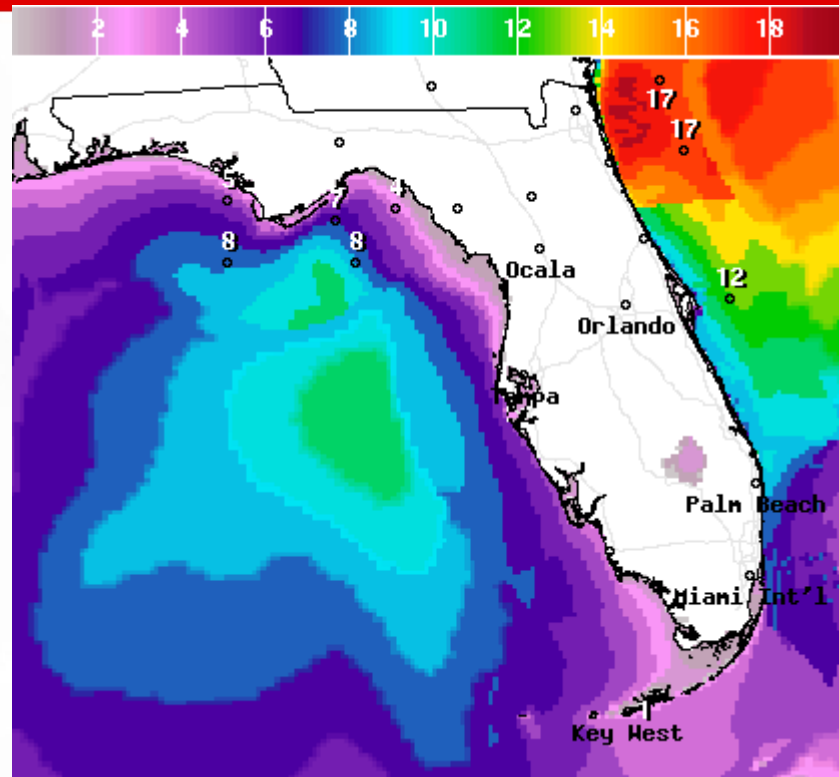


Wave Heights & Ocean Swells

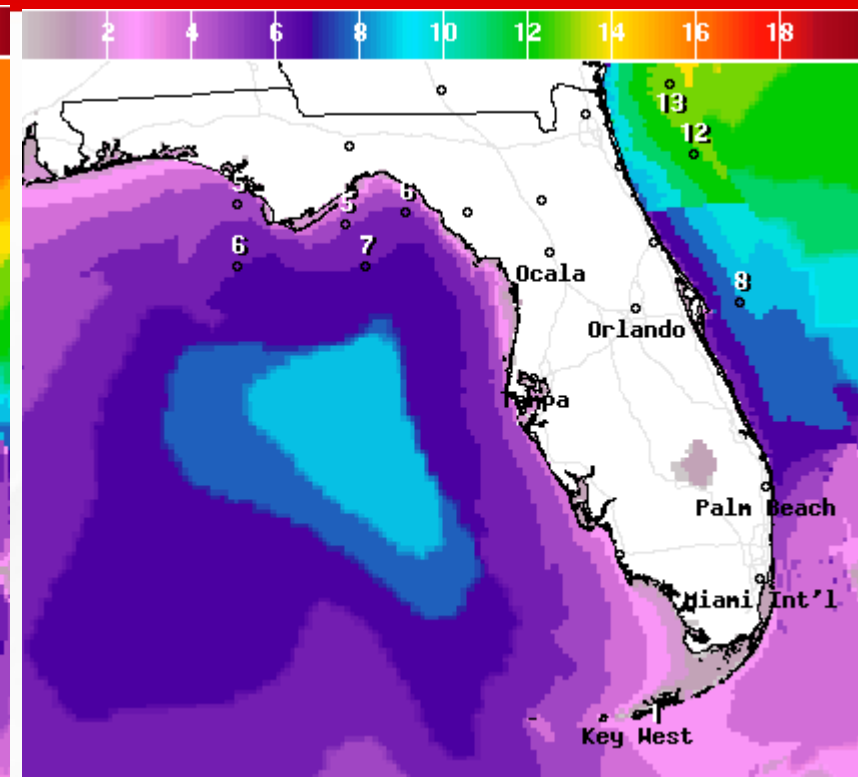
Wednesday, Thursday, & Thursday Night



Wednesday Night



Thursday



Thursday Night

The highest wave values are forecast to occur tonight as near shore waves of 12-22' are forecast along much of the Florida East Coast. Lingering high surf of 8-16' is forecast on Thursday which may result continued moderate to severe coastal erosion at times of high tide. Wave heights will also increase along portions of the Florida Gulf Coast tonight and on Thursday, leading to minor to potentially erosion during high tide. Wave heights should begin to subside on Friday.



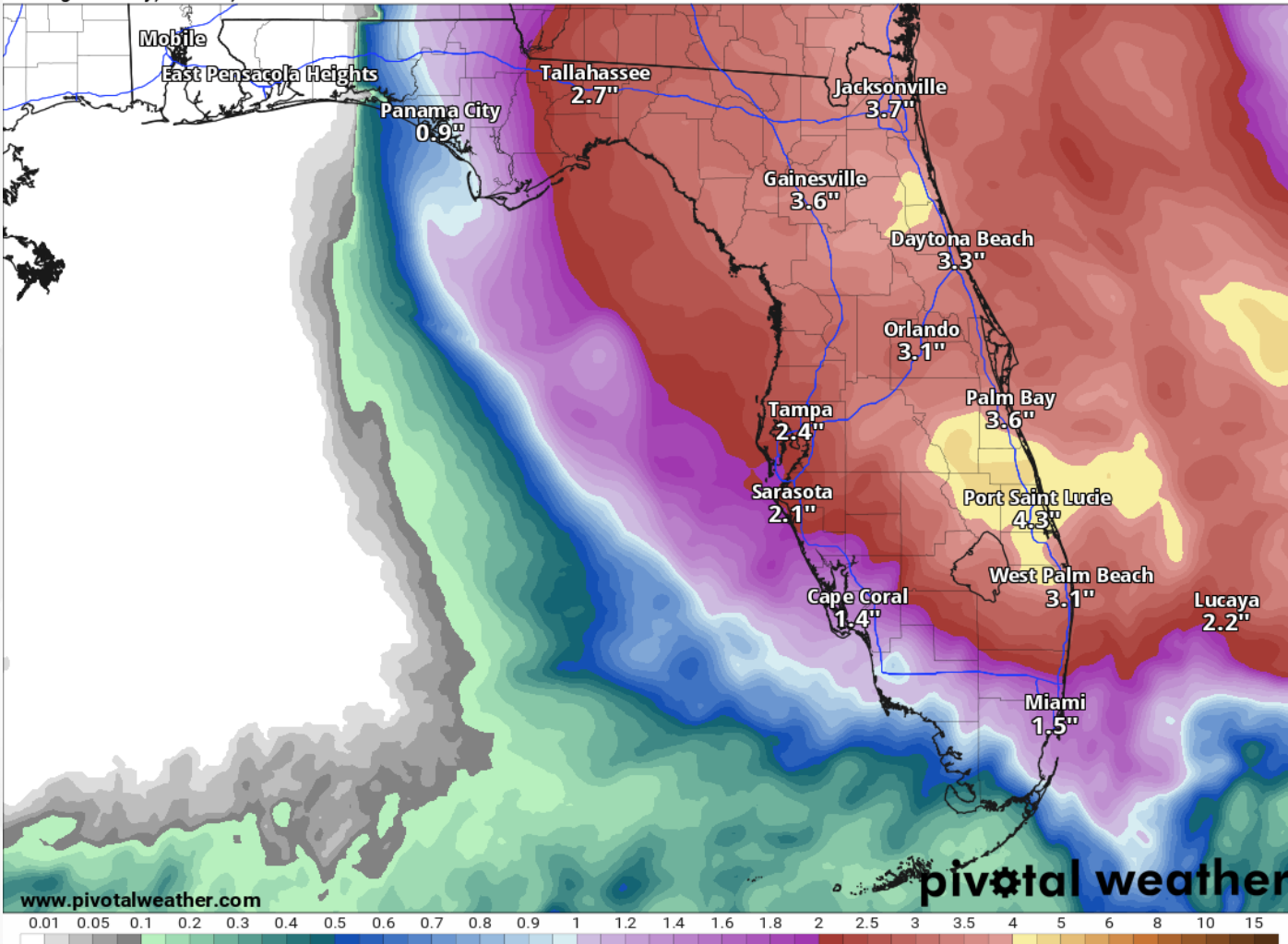
3-Day Forecast Rainfall

From the Weather Prediction Center

72-Hour Precipitation (in)

Ending Saturday, Nov. 12, 2022 at 7 a.m. EST

Init: Wed 2022-11-09 12z WPC



Widespread rainfall totals of 4-6" are possible along portions of the East Coast through the next 48-72 hours. Rainfall totals of 2-4" are expected across the remainder of the Peninsula. Isolated higher totals near 8" are possible, and these amounts could change depending on the forecast track, intensity and structure of the storm.



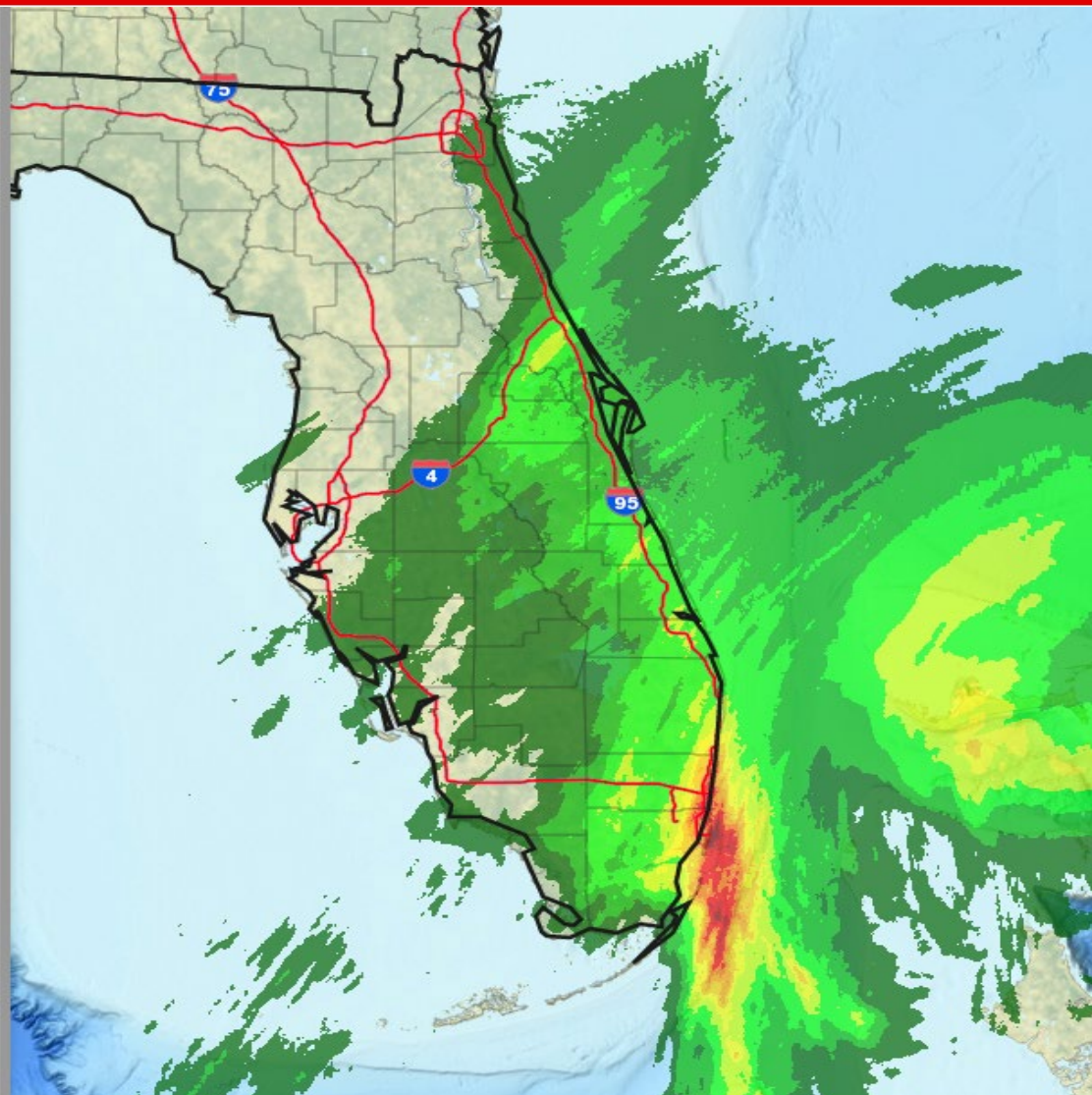
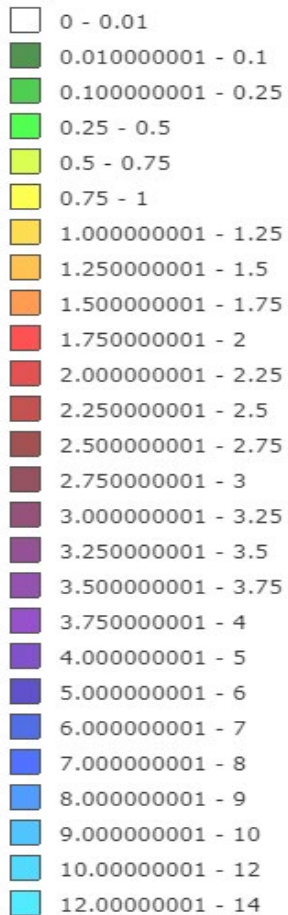
Estimated Observed Rainfall

Past 12 Hours

Radar Estimated Rainfall - Hourly
(Frequent Update MRMS/Q3)

12-Hr Quantitative Precipitation Accumulation
(inches)

Image



- Rainfall amounts up to 1 inch has been observed today along portions of the East Coast.
- A few areas in southeastern Palm Beach, eastern Broward and northern Miami-Dade have experienced up to 2.5" so far today.



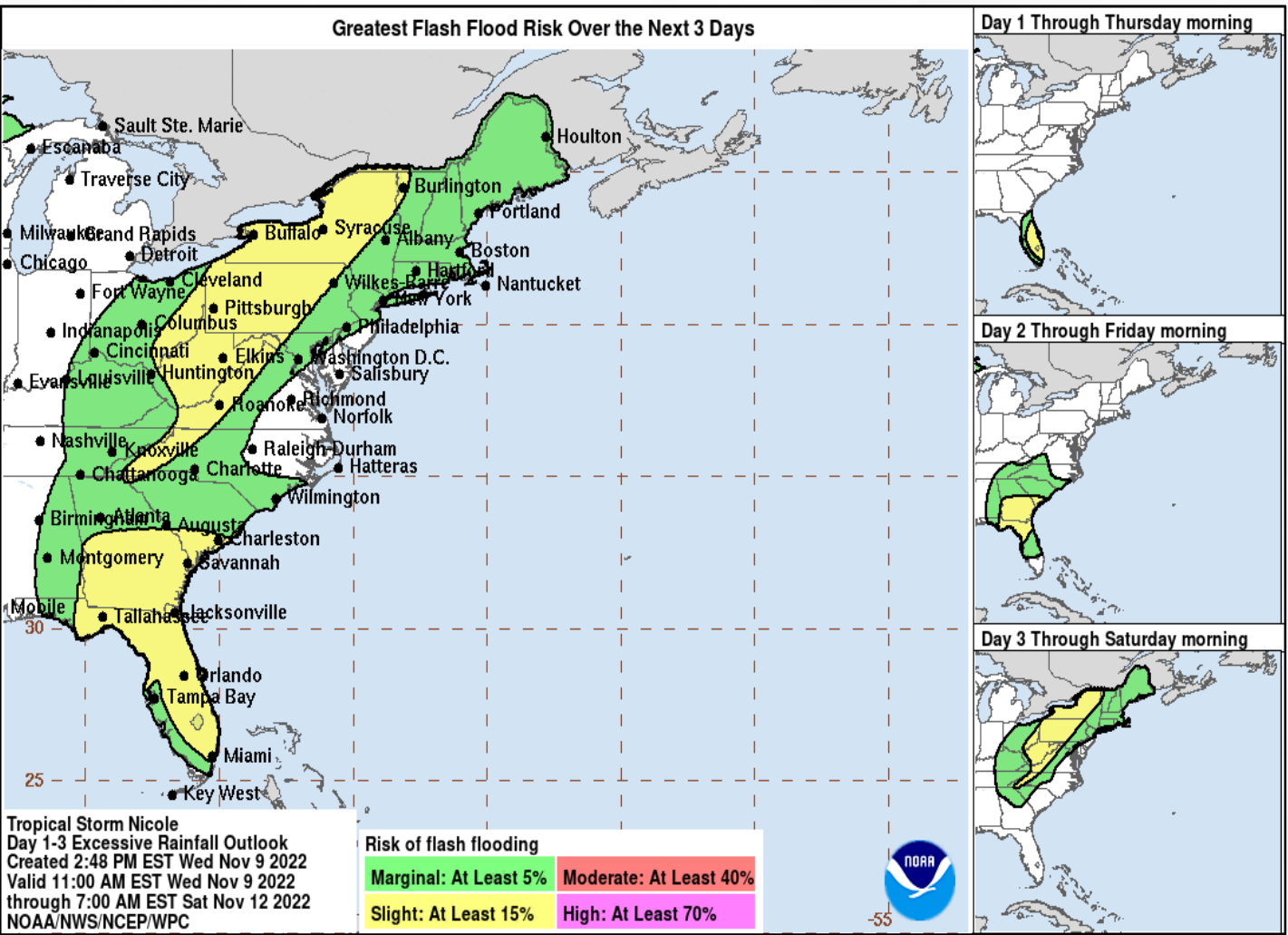
Flash Flood Outlooks

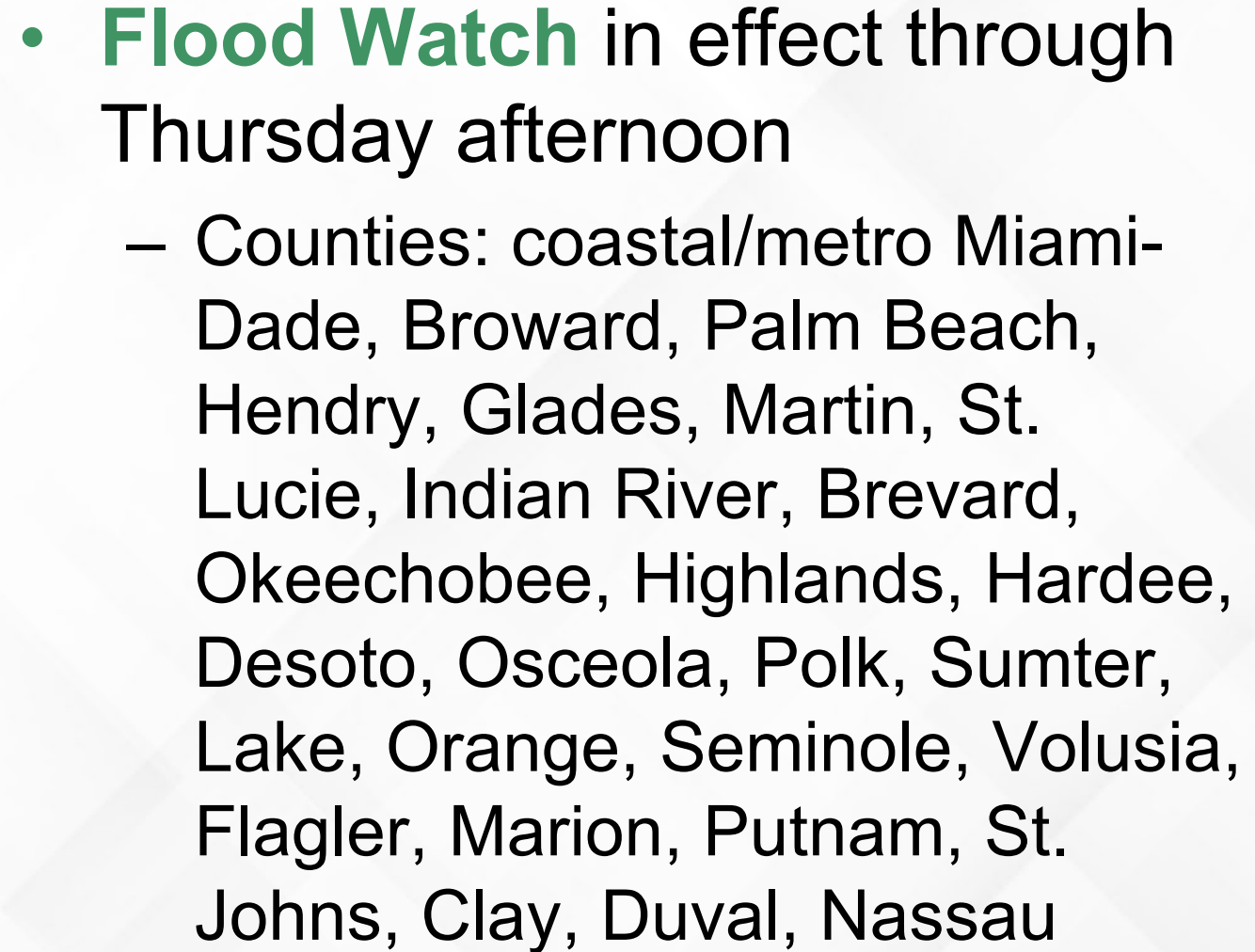
From the Weather Prediction Center

Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
@NWSWPC				
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
	NO Flash Flooding	NO Flash Flooding	NO Flash Flooding	NO Flash Flooding
WEATHER PREDICTION CENTER				

Forecast rain amounts could lead to a slight chance of flash flooding (level 2 of 4), particularly across East-Central and Southeast Florida. By Friday, the threat for flash flooding looks to expand across the Panhandle, Big Bend, and Northeast Florida.

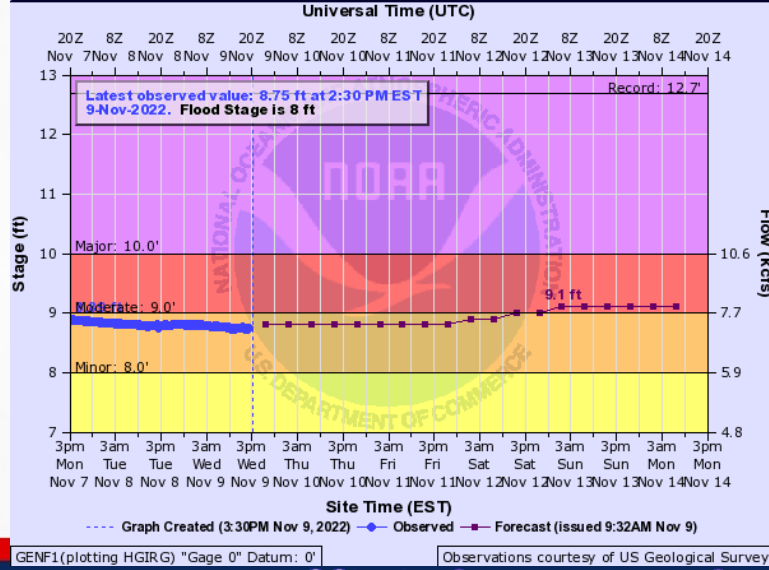
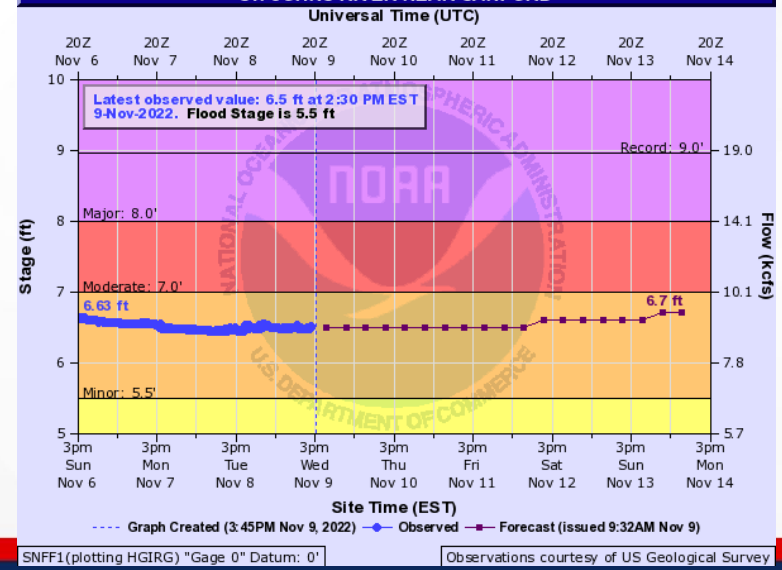
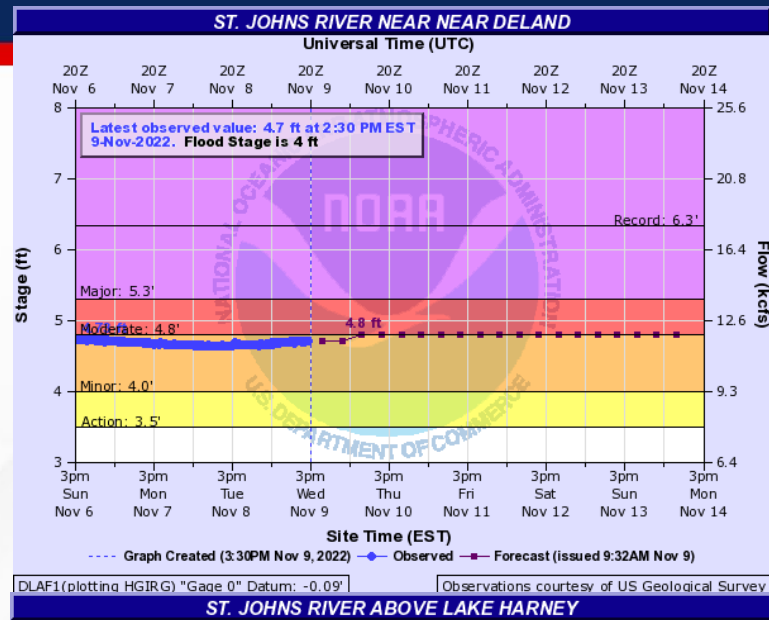
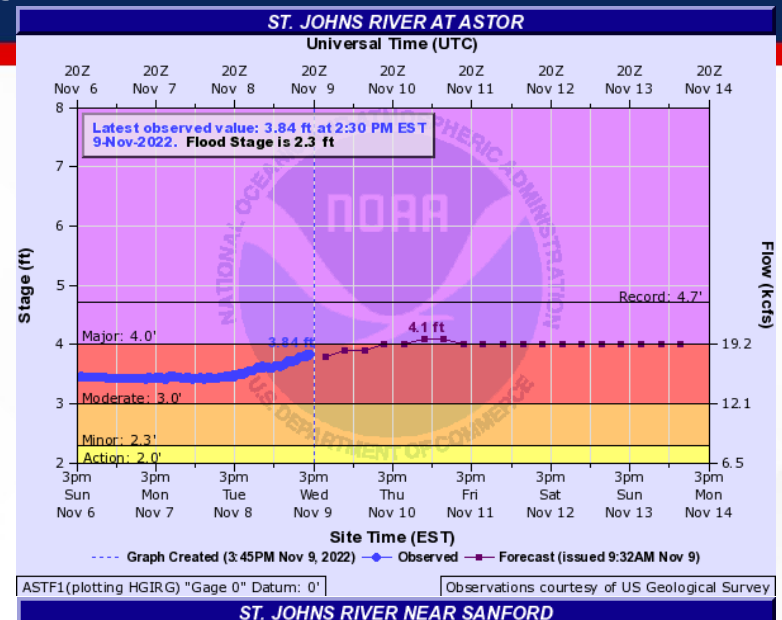
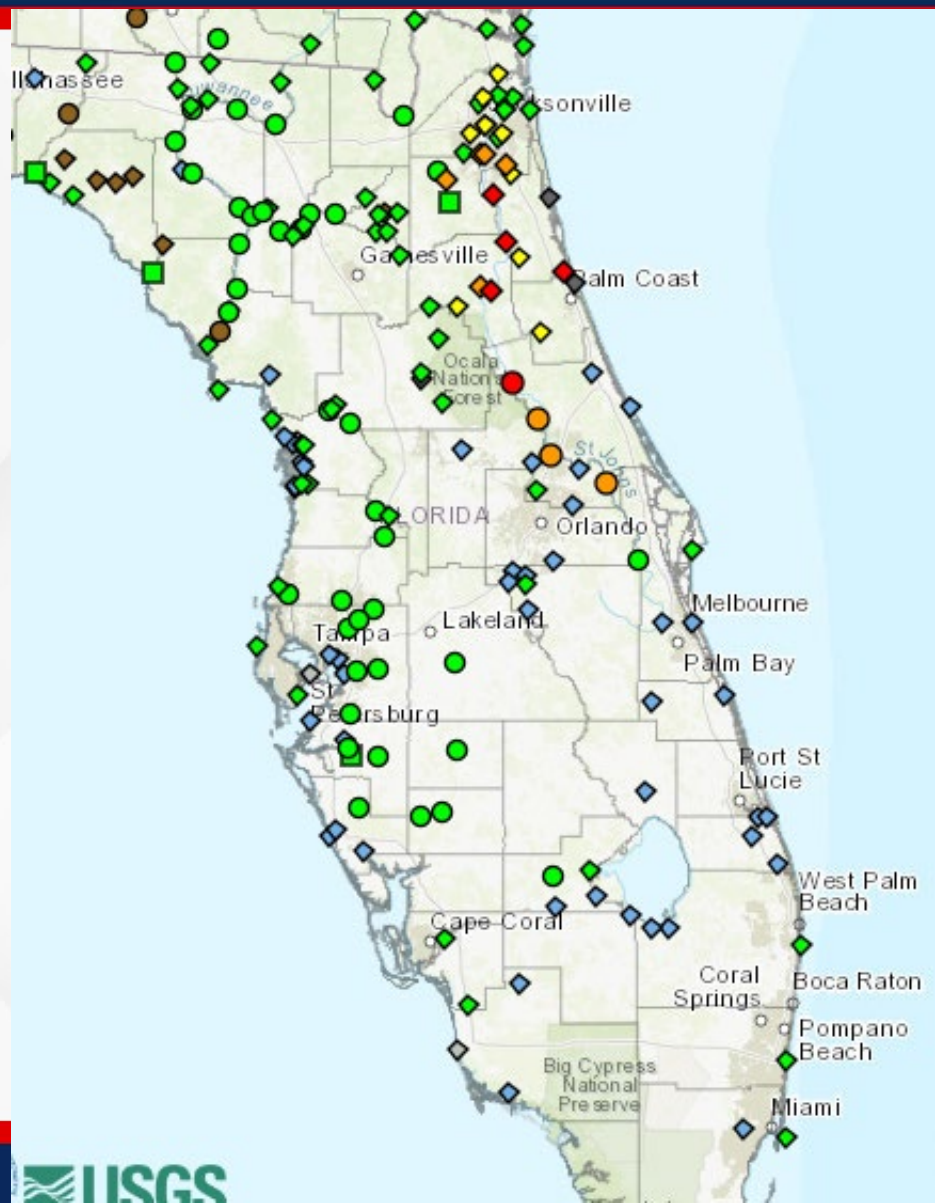






Current River Status & Forecast Hydrographs

As of Wednesday Afternoon

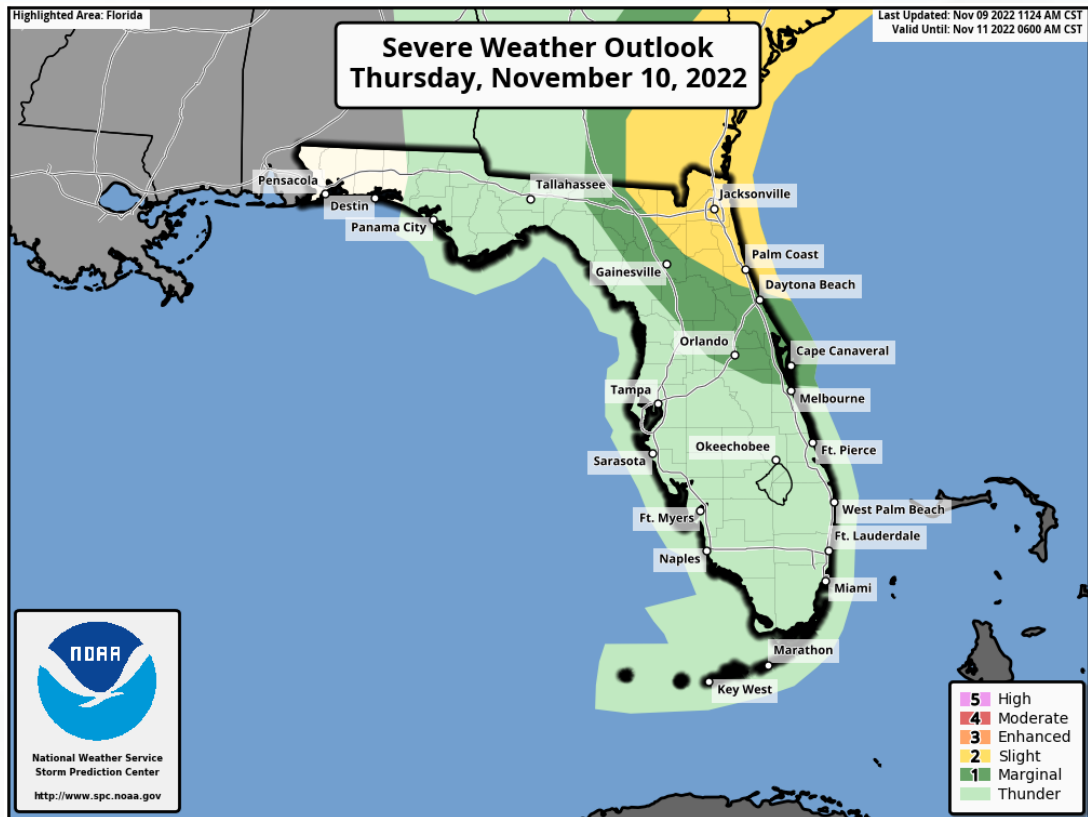
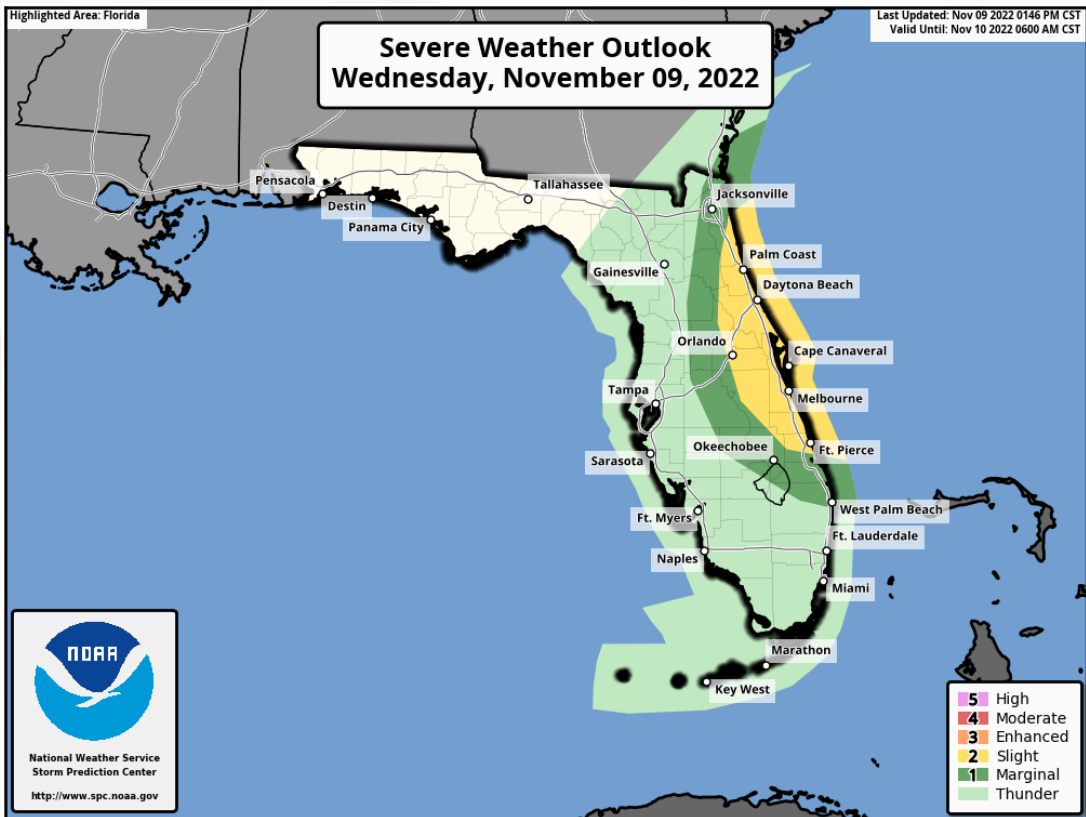


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Severe Weather Outlooks

From the Storm Prediction Center



Outer rain bands from Nicole could result in isolated tornadoes across the eastern Peninsula tonight.

Understanding Severe Thunderstorm Risk Categories

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with all thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense



Key Messages

From the National Hurricane Center



Key Messages for Tropical Storm Nicole

Advisory 11: 4:00 PM EST Wed Nov 09, 2022



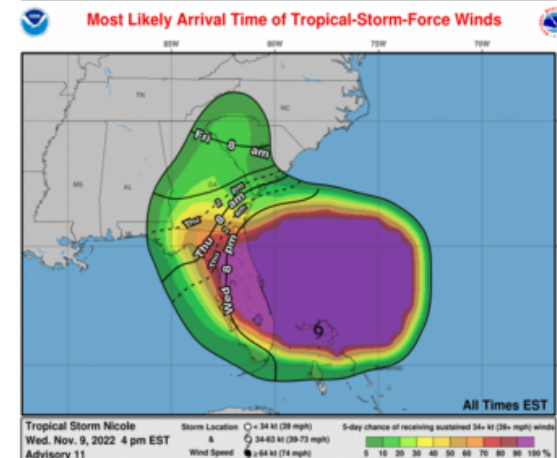
1. Hurricane and tropical storm conditions and a dangerous storm surge are expected to continue over portions of the northwestern Bahamas through this evening, where a Hurricane Warning remains in effect.

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 will continue along the east coast of Florida, Georgia, and South Carolina within the warning areas into Thursday. 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 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.



For more information go to hurricanes.gov

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Summary

Tropical Storm Nicole:

- At 4 PM EST Wednesday, the center of Tropical Storm Nicole was located approximately 135 miles east of West Palm Beach, Florida, and moving west near 13 mph.
- Maximum sustained winds remain at 70 mph. Some strengthening is possible over the next 6 hours and Nicole is forecast to become a hurricane before landfall along the Treasure Coast tonight.
- A turn toward northwest across central and northern Florida is expected on Thursday, followed by a north or north-northeast on Friday.
- While Nicole is expected to weaken while moving across Florida, **it will remain a large tropical storm**. Tropical storm-force winds extend outward up to 485 miles, especially to the north of center.
- Even if the center of Nicole emerges for a time over the northeastern Gulf of Mexico, significant re-intensification is not expected. Nicole is forecast to weaken further over the southeastern United States, and then dissipate along a frontal zone moving into the eastern United States by Friday evening.

Florida Outlook:

- Nicole poses a risk for significant coastal flooding, strong winds, storm surge, heavy rain and isolated tornadoes along much of the Florida East Coast over the next 48 hours.
- Due to the large wind field of Nicole, strong wind gusts may be felt across the entire Florida Peninsula and Florida Big Bend through Thursday.
- A Hurricane Warning remains in effect for 6 Florida East Coast counties, from coastal Volusia County to coastal Palm Beach with Tropical Storm Warnings in effect for 48 additional counties across the Peninsula and Big Bend.
- Tropical storm conditions are occurring along portions of the East Coast will spread through the remainder of the Peninsula tonight and Thursday. Hurricane conditions will be possible along the Space and Treasure Coasts tonight or Thursday morning. Tropical storm conditions could arrive in the Florida Big Bend Thursday morning or afternoon.
- Elevated tides, ocean swells, and strong winds will push water upstream through the St. Johns, leading to coastal flooding along the river.
- Deteriorating beach conditions can be expected across the East Coast as a result of elevated tides and wave heights of 12-22'.
- A Storm Surge Warning is in effect along the entire Florida East Coast north of North Palm Beach, as well as from the mouth of the St. Johns River to Georgetown, Florida. A Storm Surge Warning is also in effect along the Florida Gulf Coast from the Anclote River to the Ochlockonee River. Storm surge values of 3-5' are forecast, with localized surge values of up to 6' possible.
- A Storm Surge Watch is in effect south of North Palm Beach to Hallandale Beach, Florida, and along the Florida Gulf Coast from the Ochlockonee River to Indian Pass, where surge heights could reach 2-4'.
- Rainfall amounts of up to 2.5" have been observed so far today. Additional rain amounts of 2-6" are possible across much of the Florida Peninsula over the next 72 hours, leading to a slight risk of flash flooding and rises on local rivers. A Flood Watch is in effect for 27 Peninsula Counties.
- Isolated tornadoes are possible in the outer bands of Nicole and could affect eastern portions of the Florida Peninsula tonight and on Thursday.

The next briefing packet will be issued Thursday morning. For the latest information, please visit the [National Hurricane Center website](#).



Tropical Update

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State Meteorological Support Unit

Florida Division of Emergency Management

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