



Tropical Update



11:00 AM EST

Thursday, November 10, 2022

Tropical Storm Nicole

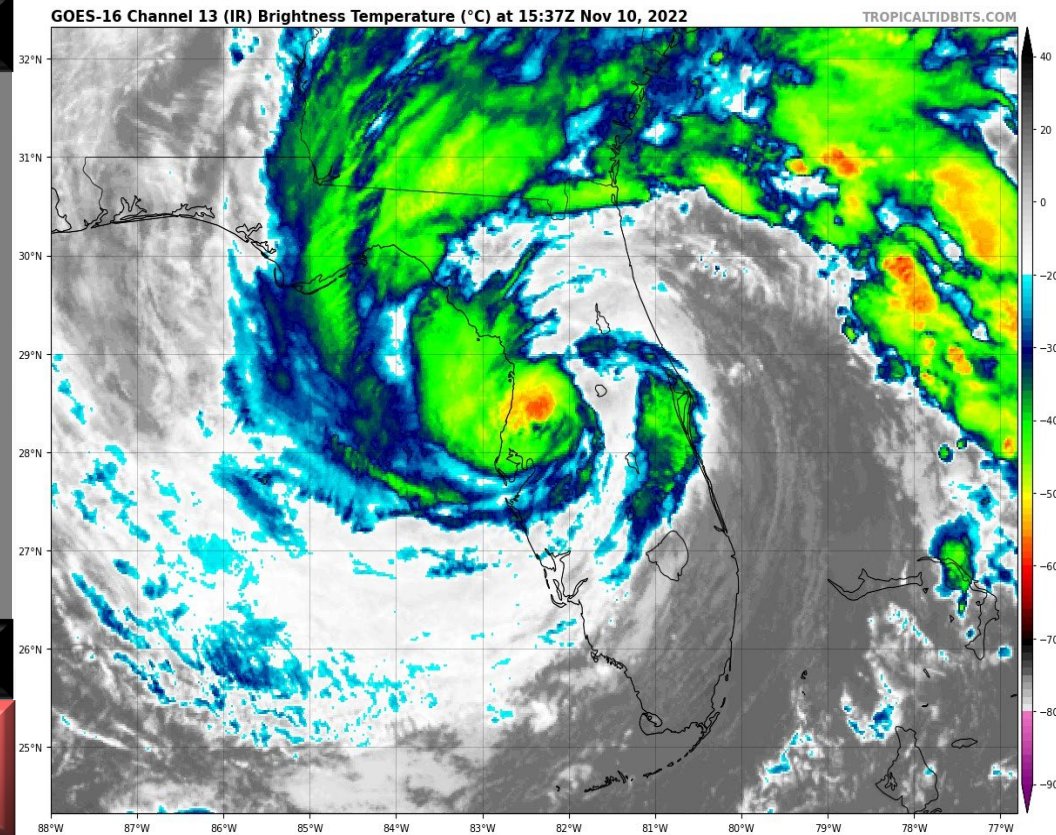
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an 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

11 AM EST Thursday: Florida Threats & Changes Since Last Packet

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

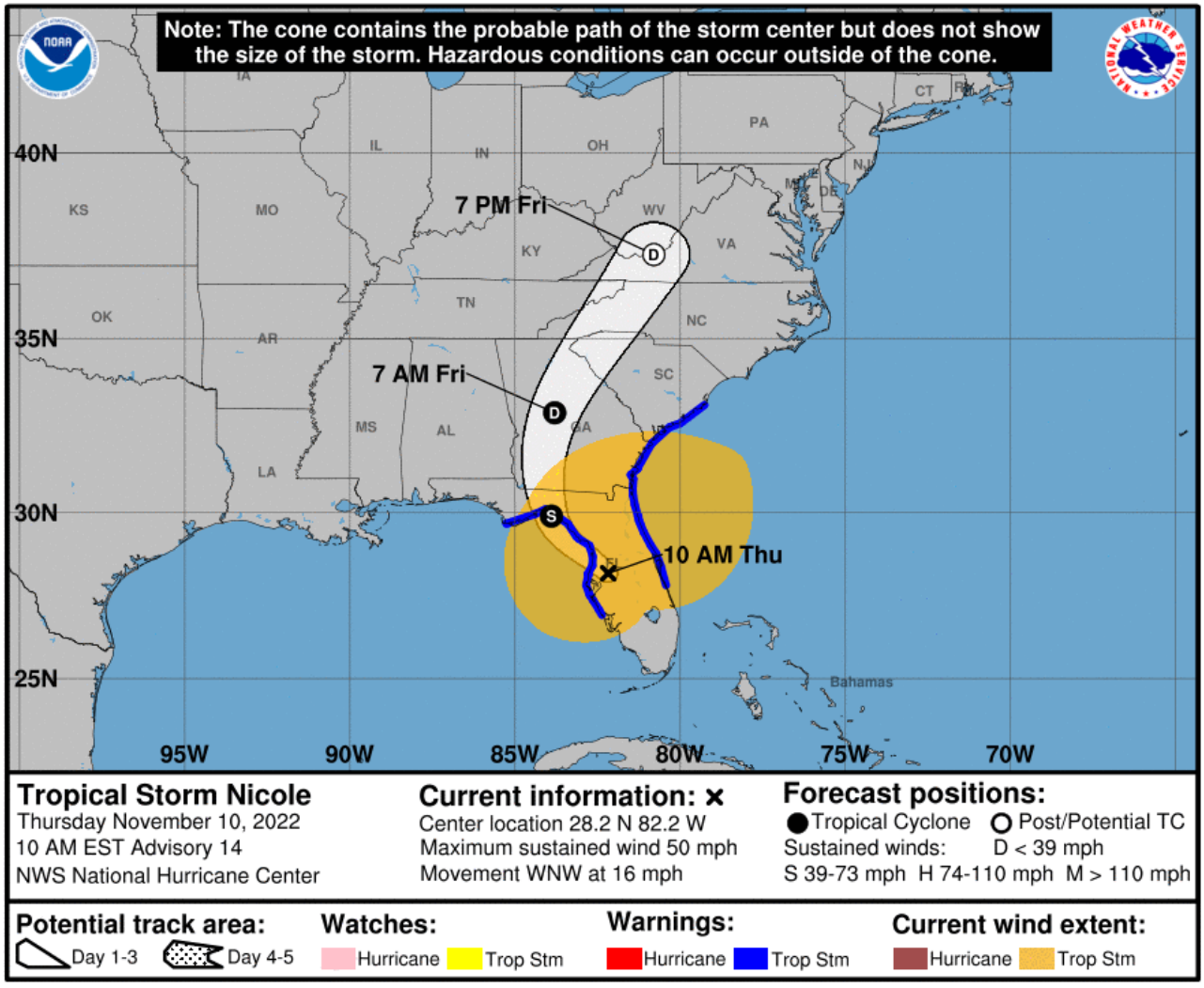


Overview/Recent Changes: With the 10:00 AM EST Advisory, the Tropical Storm Warning has been discontinued along the Florida West Coast, south of Englewood, and along the Florida East Coast, south of Sebastian Inlet. The Storm Surge Warning has been discontinued for the Florida East Coast, south of Sebastian Inlet. There is a continued risk of dangerous storm surge, significant coastal erosion, damaging winds, and flooding with this system. As Nicole's outer rain bands continue to push over Northeast Florida, isolated tornadoes will be possible within the more organized bands of shower and thunderstorm activity into the early afternoon hours.



Forecast Cone

Tropical Storm Nicole



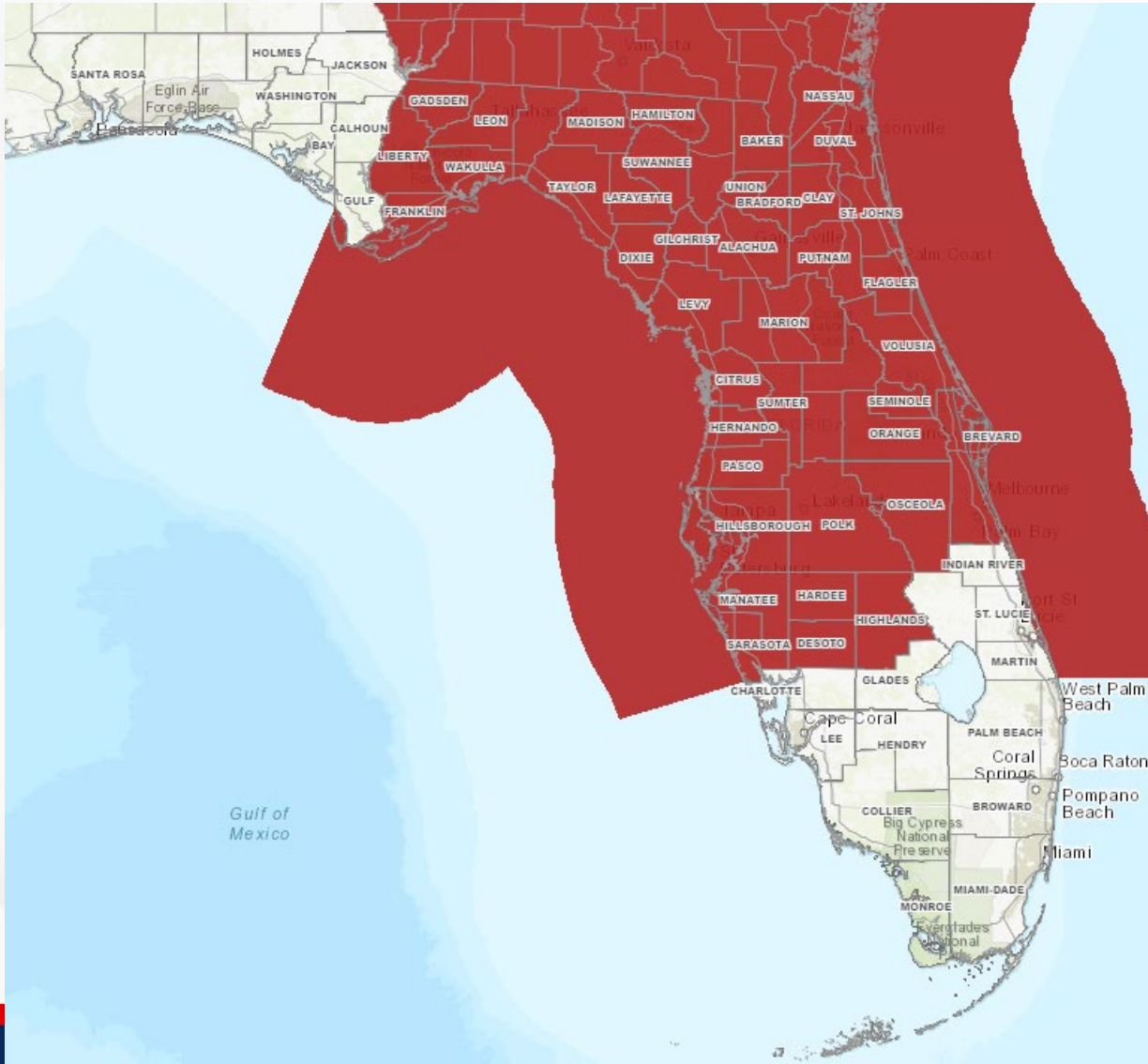
Location: 30 miles northeast of Tampa, Florida
Maximum Winds: 50 mph
Movement: WNW at 16 mph

A turn toward the northwest and north-northwest is expected later today, followed by a turn toward the north tonight. Nicole is expected to accelerate north-northeastward on Friday. On the forecast track, the center of Nicole will continue to move across the west-central Florida Peninsula this morning and emerge over the far northeastern Gulf of Mexico this afternoon. The center should then move across the Florida Panhandle and Georgia tonight, and then move through the southeastern United States on Friday. While maximum sustained winds continue to decrease, **Nicole remains a large tropical storm.** Tropical storm-force winds extend outward up to 345 miles from the center, especially to the northeast. Additional weakening is expected, and little change in strength is expected while Nicole is over the Gulf of Mexico this afternoon and evening. Nicole is expected to weaken to a depression over Georgia tonight, and then it is expected to merge with a frontal boundary by Friday night.



Active Tropical Watches/Warnings

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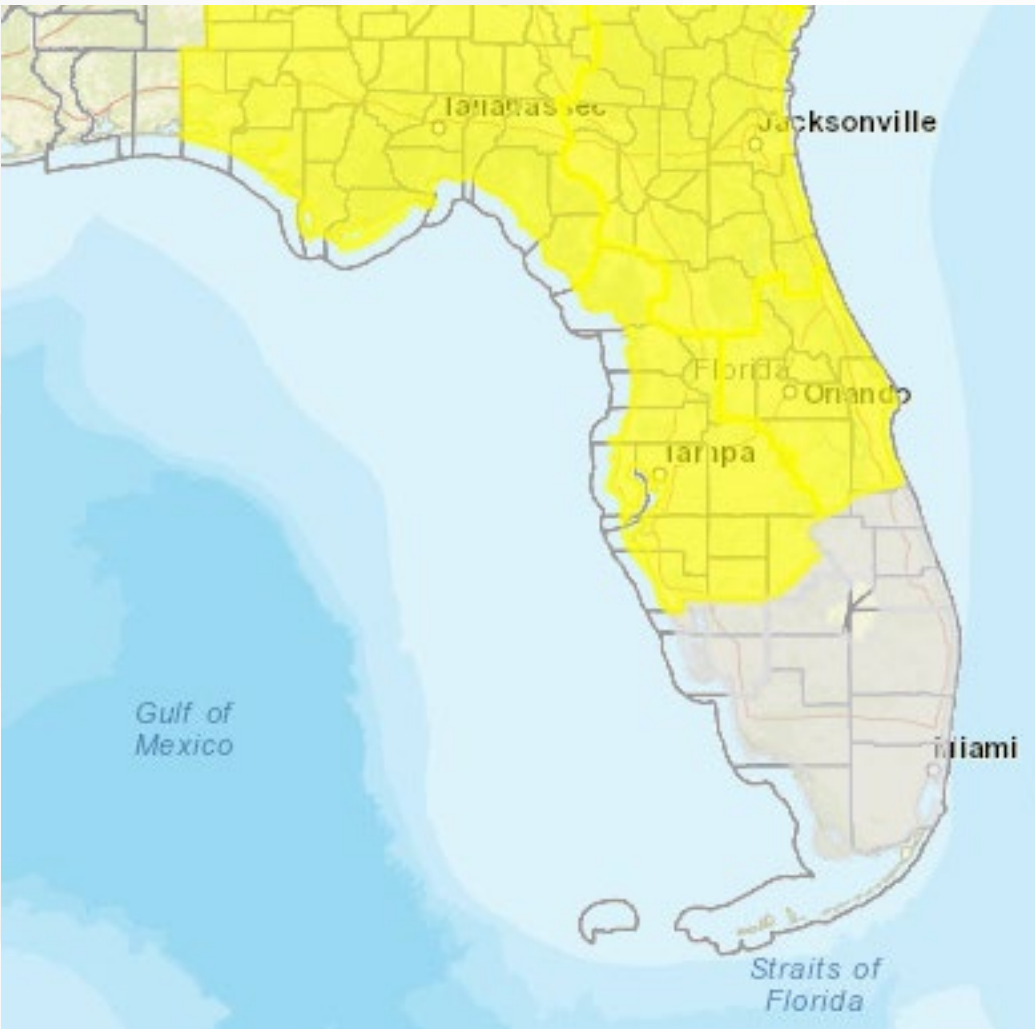
- **Tropical Storm Warning**

- 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, Volusia, Brevard, Lake, Sumter, Citrus, Hernando, Pasco, Polk, Hillsborough, Pinellas, Manatee, Sarasota, Highlands, Hardee, Desoto, Broward, inland Palm Beach, Osceola, Orange, and Seminole



Damaging Wind Threat Overview

Tropical Storm Nicole



Tropical storm-force winds can be expected to spread northwestward this afternoon through the Panhandle. Locally higher wind gusts may occur within the squall-like outer rainbands. Given the size of Nicole's wind field, breezy conditions will continue in the Peninsula. Conditions will gradually improve from south to north through the evening hours.

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

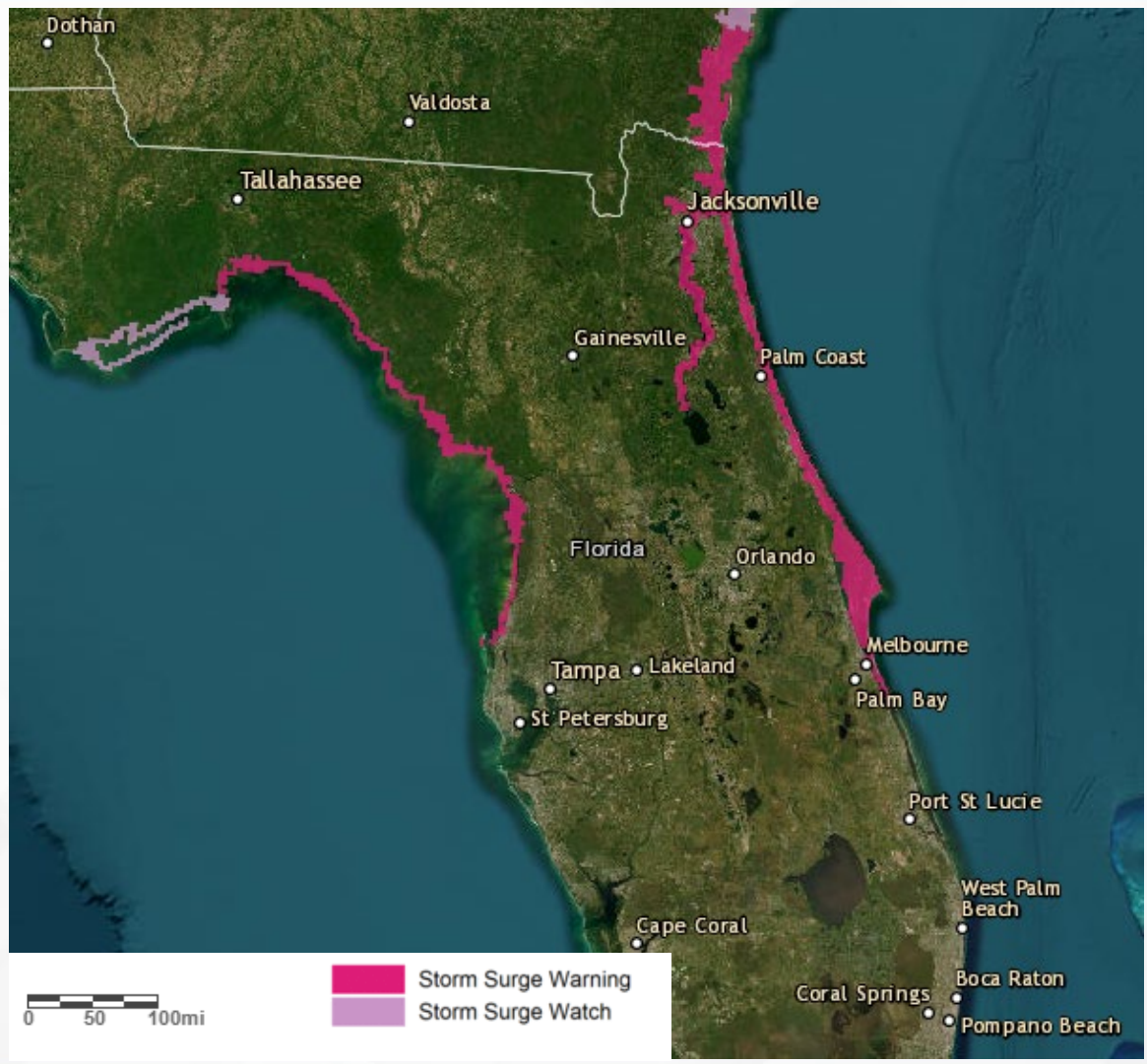
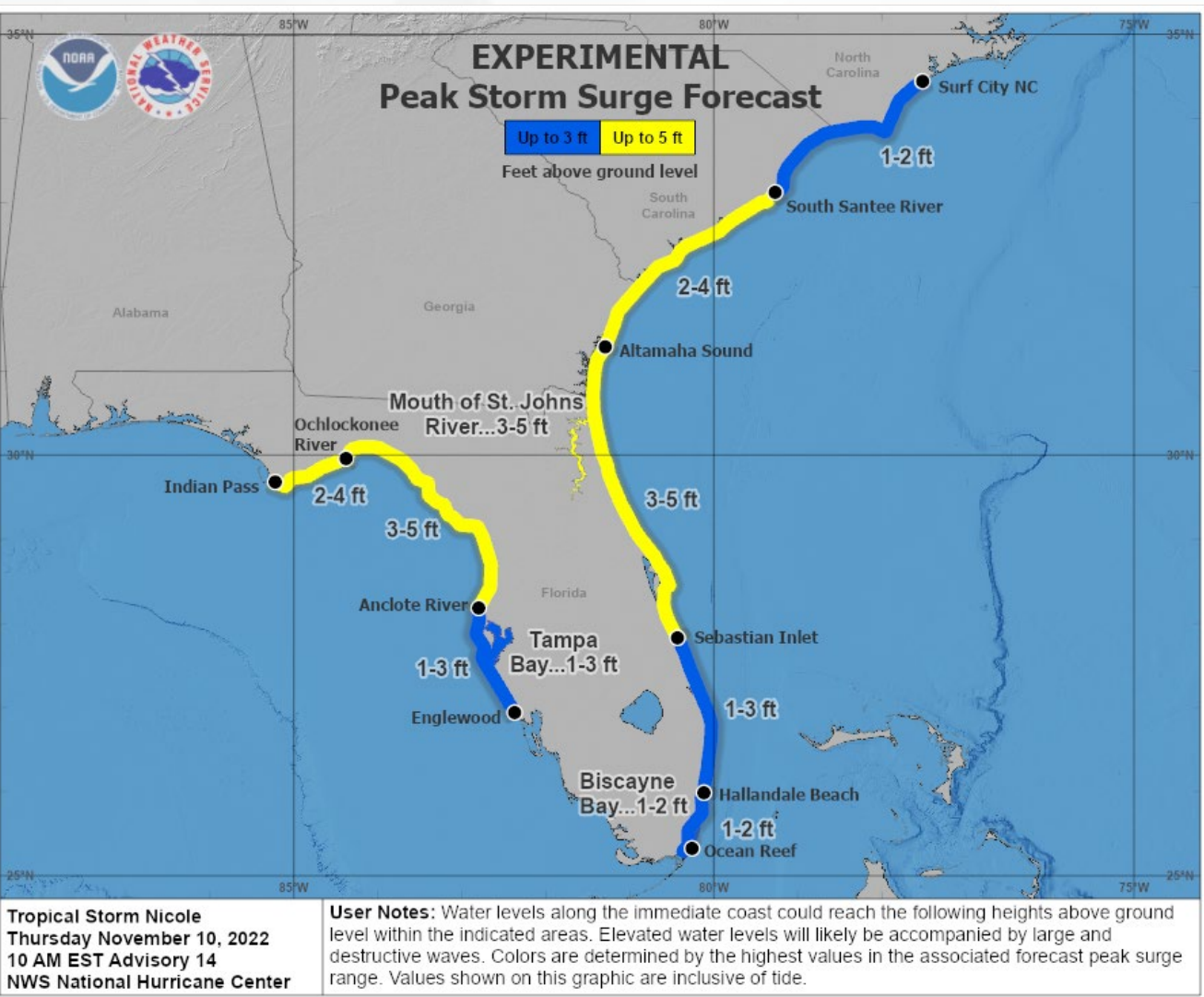
Click on "Threats and Impacts" Tab

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

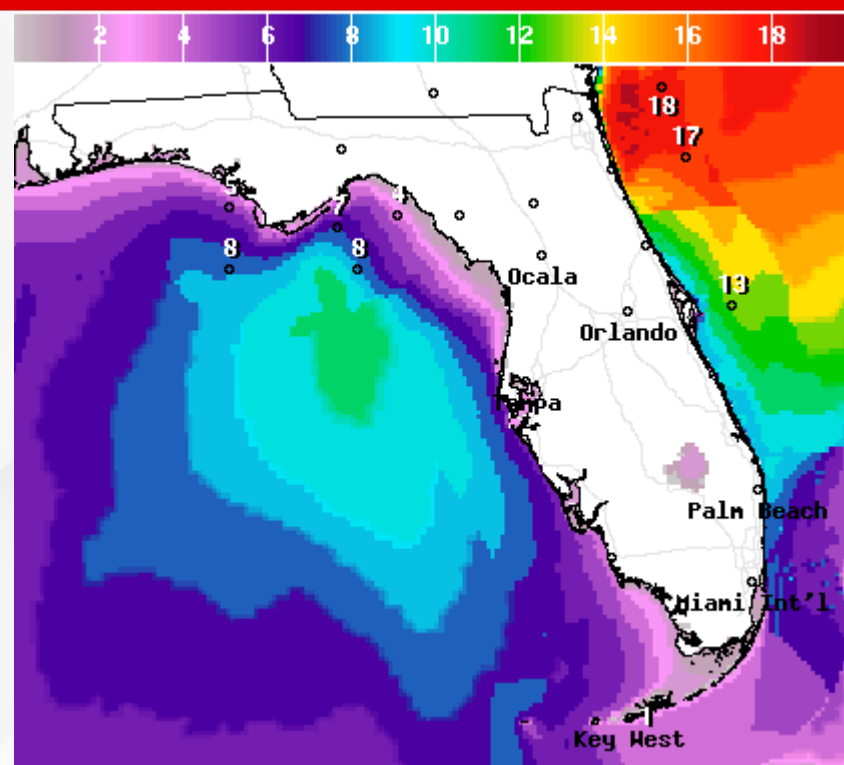
In Effect Until Further Notice



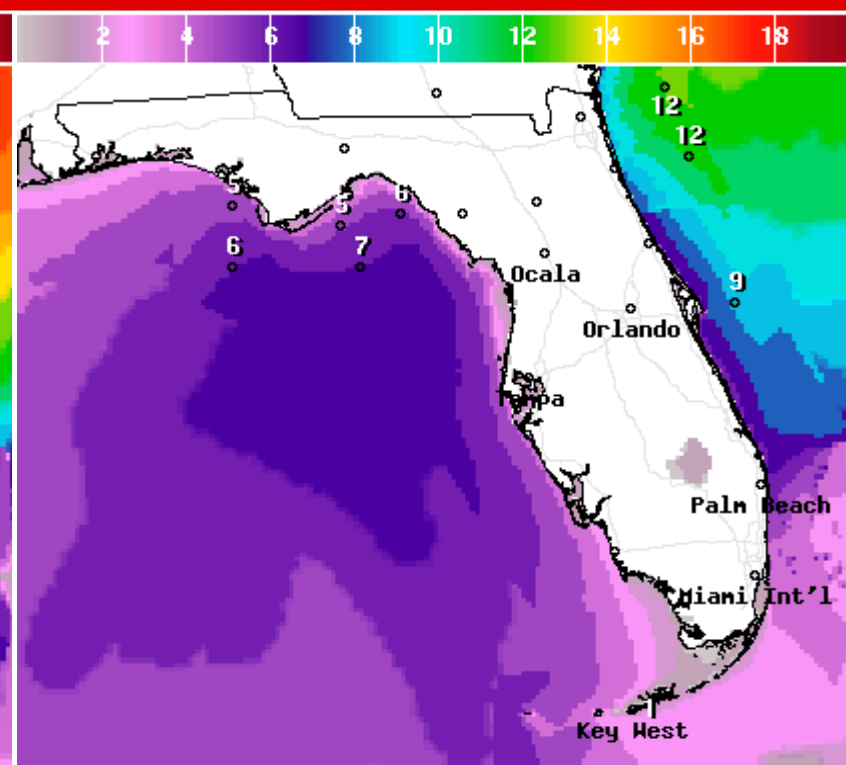


Wave Heights & Ocean Swells

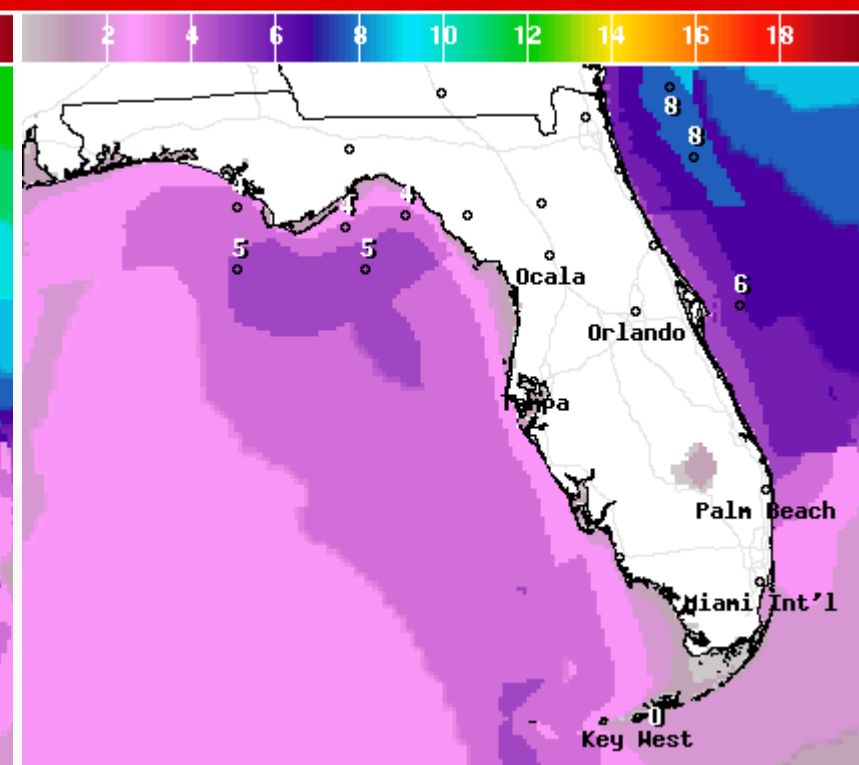
Thursday, Thursday Night, & Friday



Thursday



Thursday Night



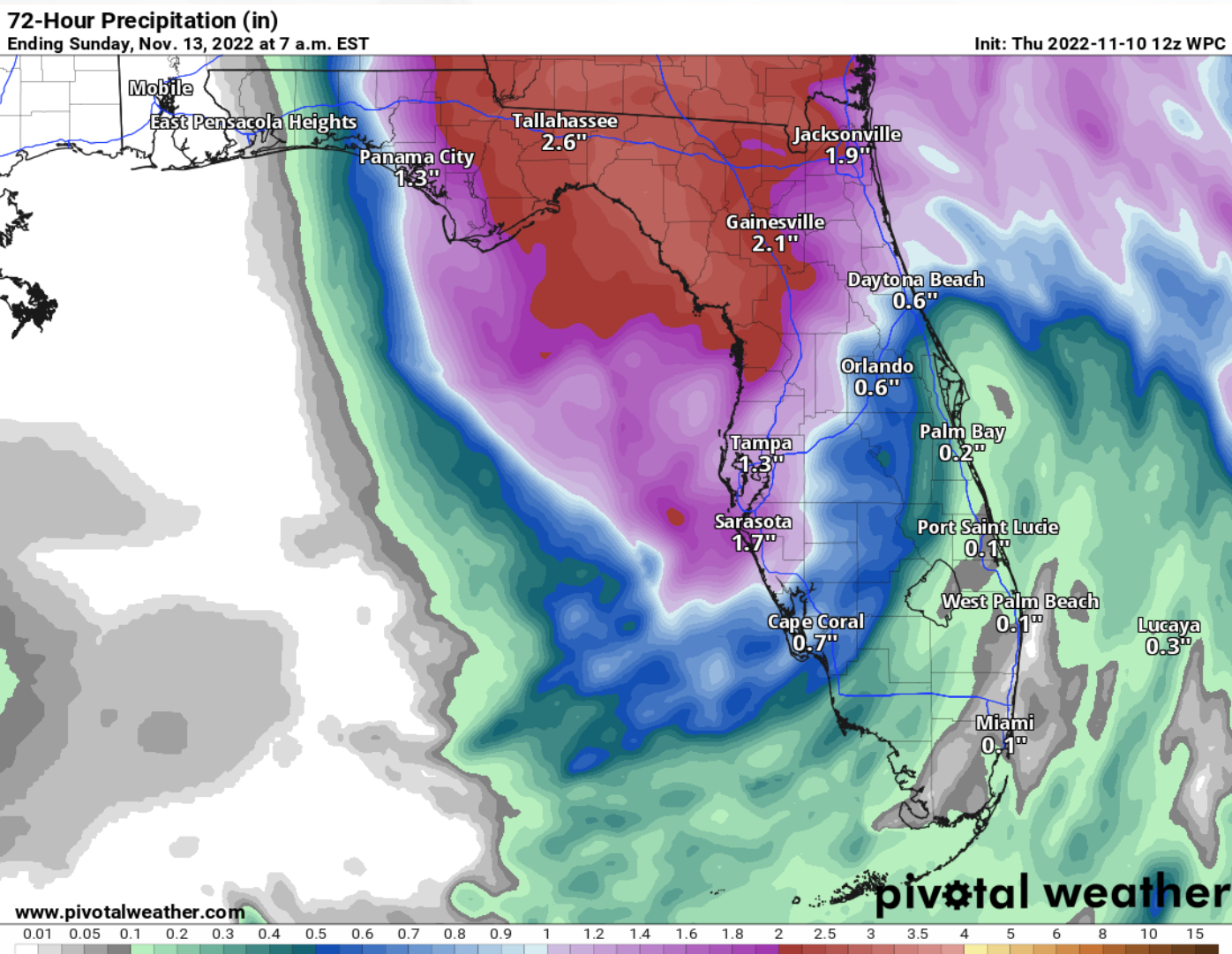
Friday

Lingering high surf of 8-16' can be expected to continue along portions of the East Coast today, which may result in continued moderate to severe coastal erosion at times of high tide. Wave heights will also increase along portions of the Florida Gulf Coast today, leading to minor to potentially moderate erosion during high tide. Wave heights should begin to subside on Friday.



3-Day Forecast Rainfall

From the Weather Prediction Center



The greatest additional rainfall totals, over the next 72 hours, can be expected to fall mainly along and north of the I-4 corridor. Rainfall totals of 2-4" can be expected across portions of the eastern Panhandle, Big Bend, and Suwannee River Valley, with an additional 1-2" possible for portions of Northeast Florida and the central Peninsula.

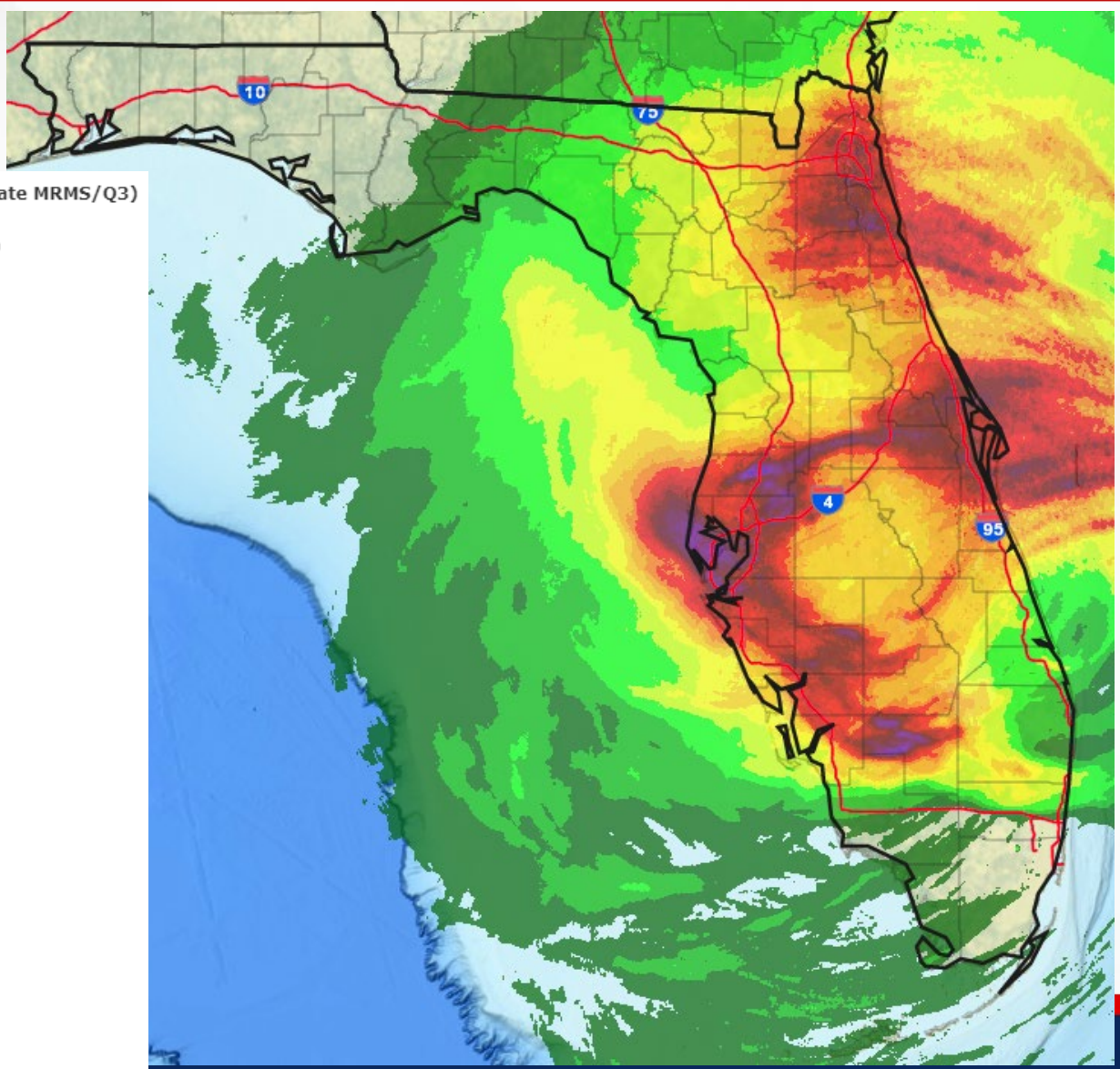
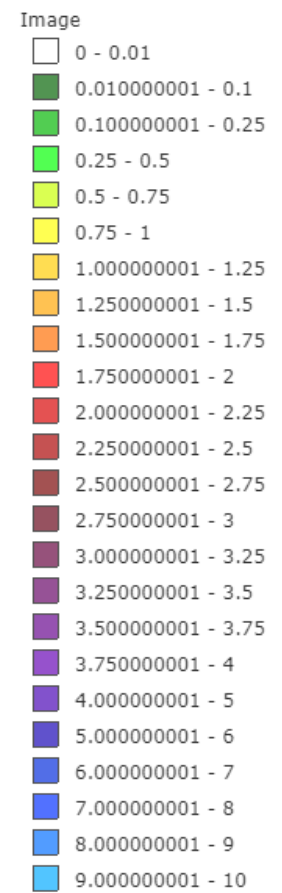


Estimated Observed Rainfall

Past 12 Hours

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

12-Hr Quantitative Precipitation Accumulation (inches)









- Widespread rainfall totals of 1-2" have been observed along the East Coast and across the Peninsula over the past 12 hours.
- Higher rainfall totals of 2-4" have been observed along the I-4 corridor, over portions of Southwest Florida, and along the I-95 corridor in Northeast Florida
- Localized totals of 5-6" have been observed over portions of interior Southwest Florida.



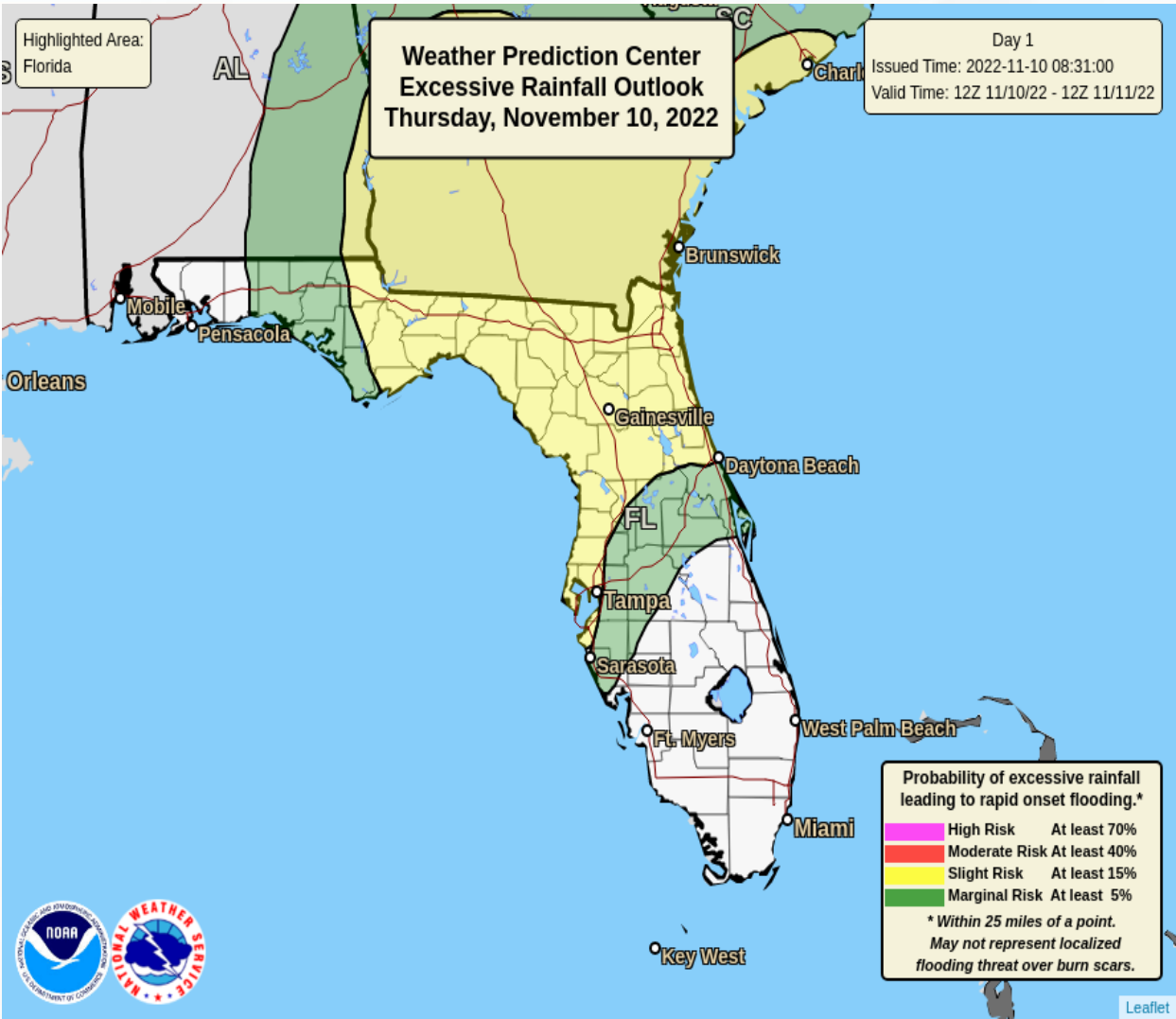
Flash Flood Outlooks

From the Weather Prediction Center

Understanding WPC Excessive Rainfall Risk Categories

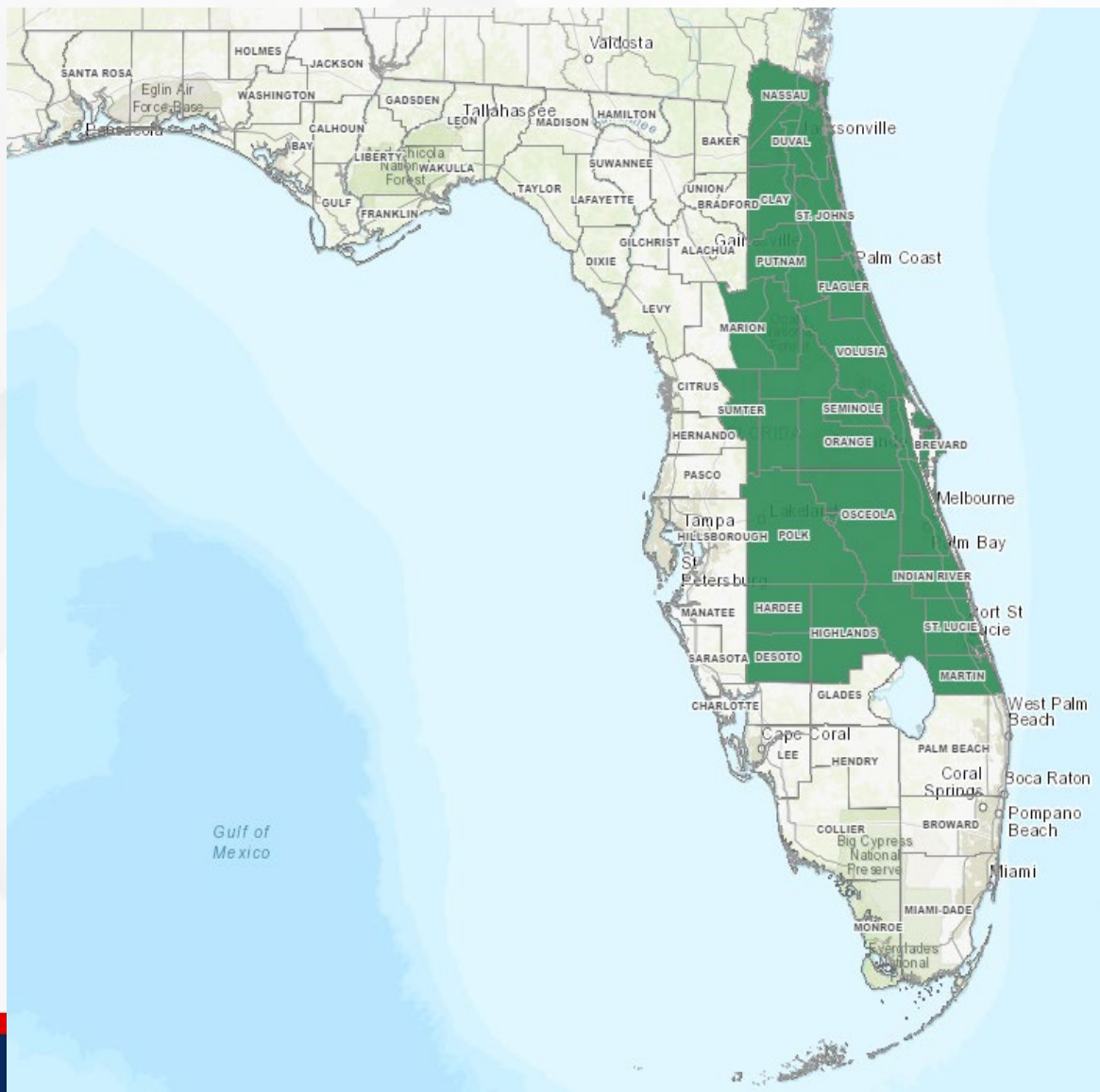
No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid 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) across the eastern Panhandle, the Big Bend, and Northeast Florida today. Additional rainfall over portions of the East Coast may lead to a quicker onset of flooding as some locations received heavy rainfall totals over the past 12 hours.





Flood Watches in Effect

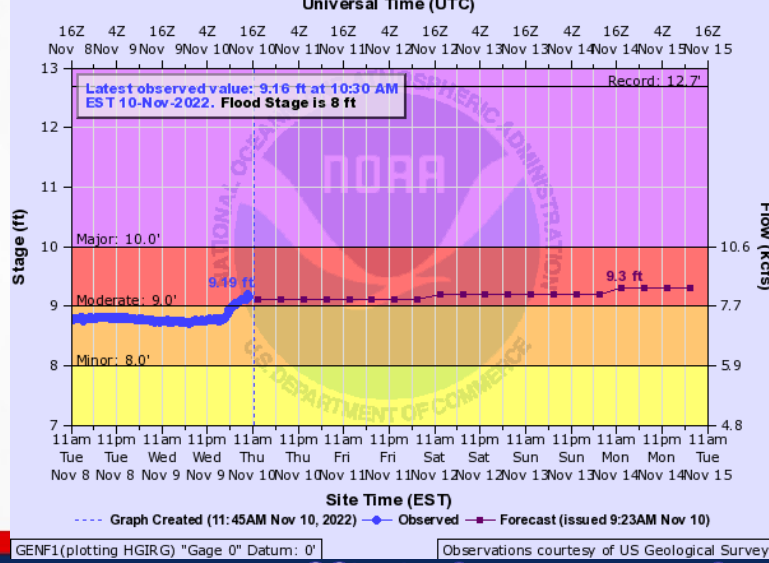
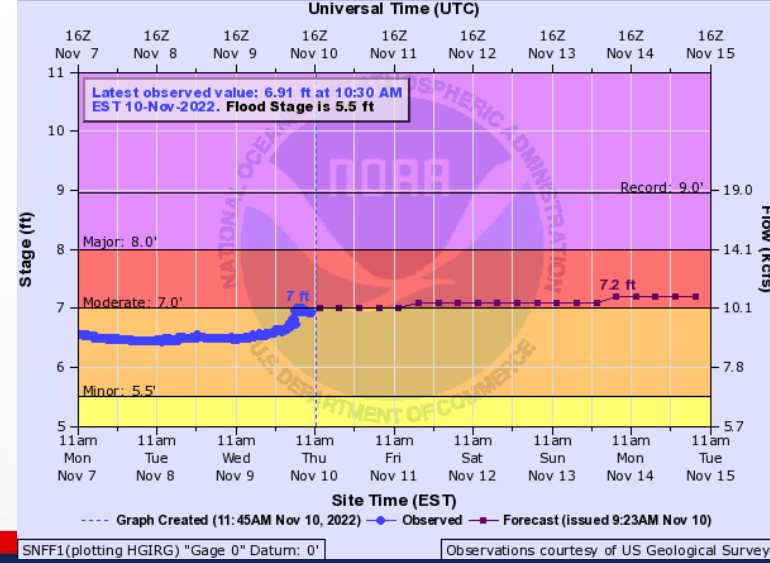
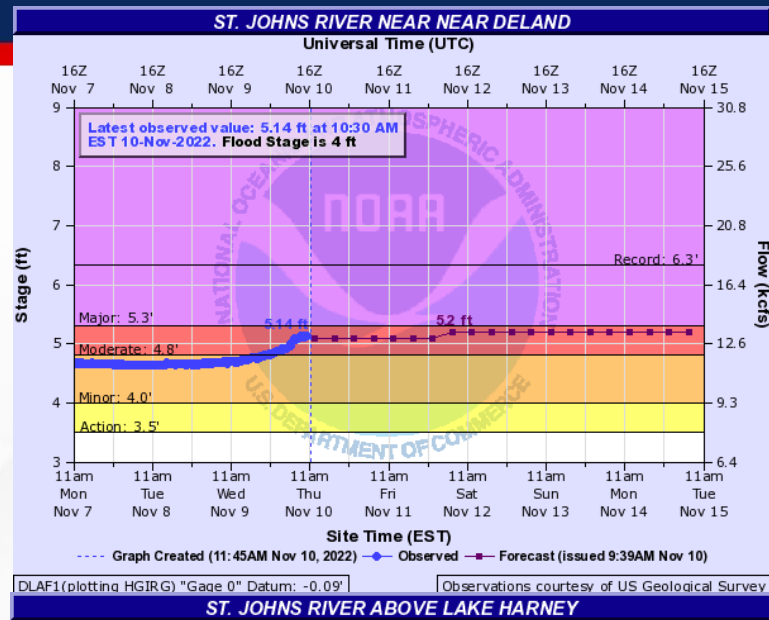
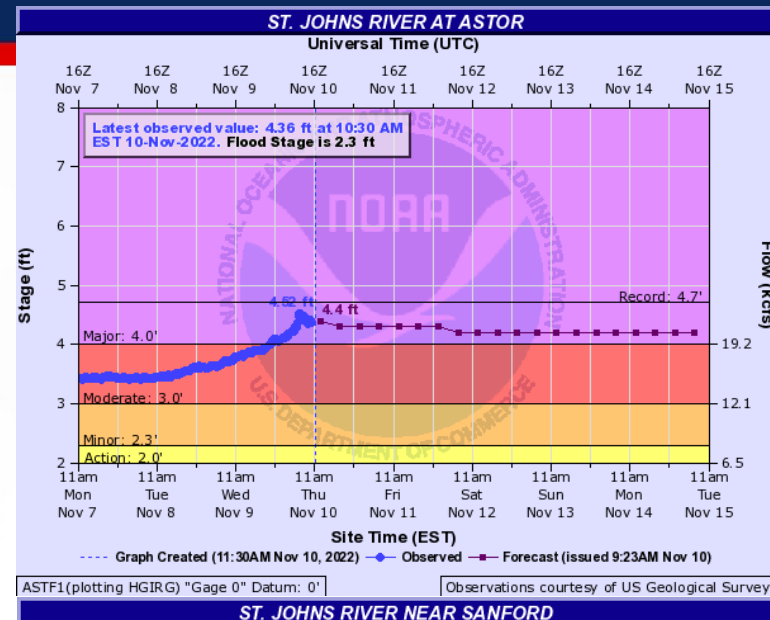
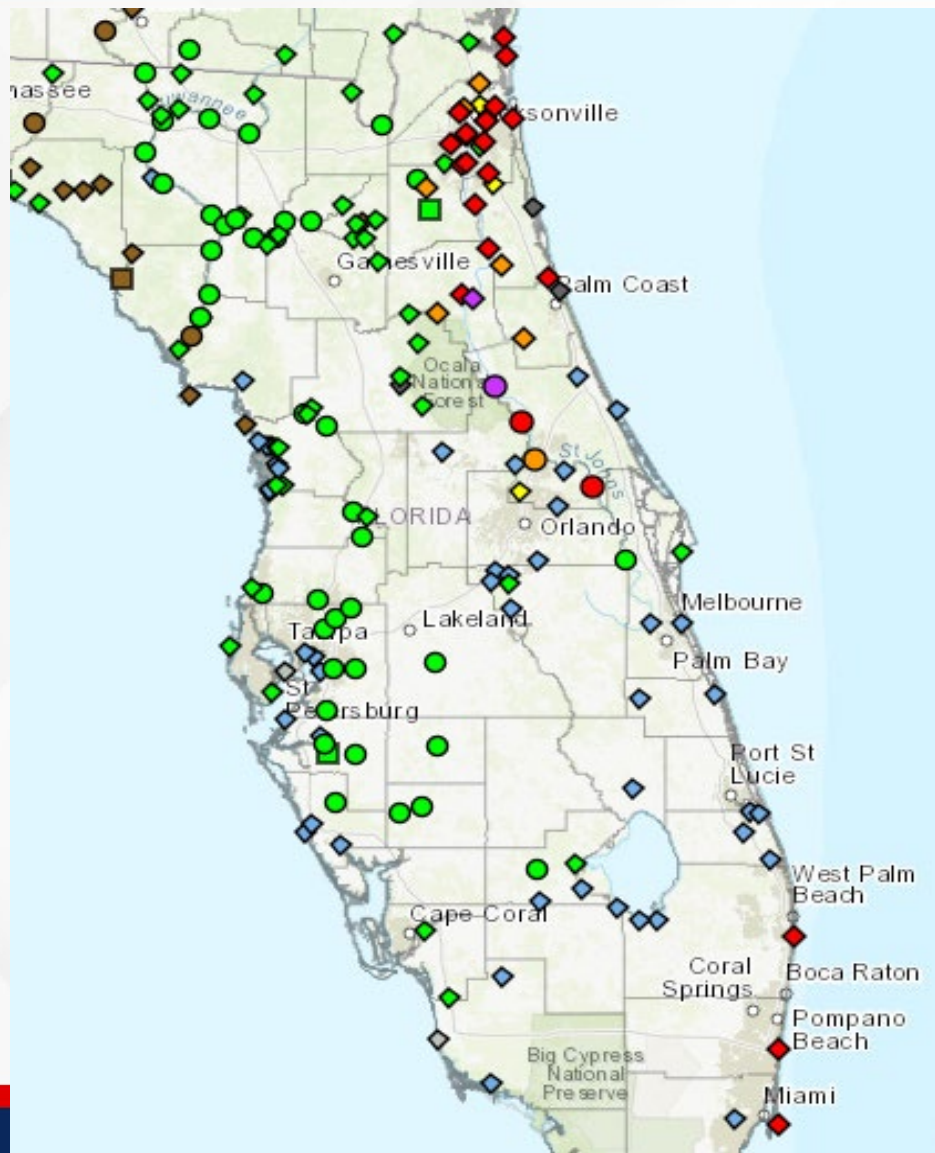


- **Flood Watch** in effect through this afternoon
 - Counties: Nassau, Duval, Clay, St. Johns, Flagler, Putnam, eastern Marion, Sumter, Volusia, Brevard, Orange, Seminole, Lake, Osceola, Indian River, Polk, Hardee, Desoto, Highlands, Okeechobee, St. Lucie, Martin



Current River Status & Forecast Hydrographs

As of Thursday Morning

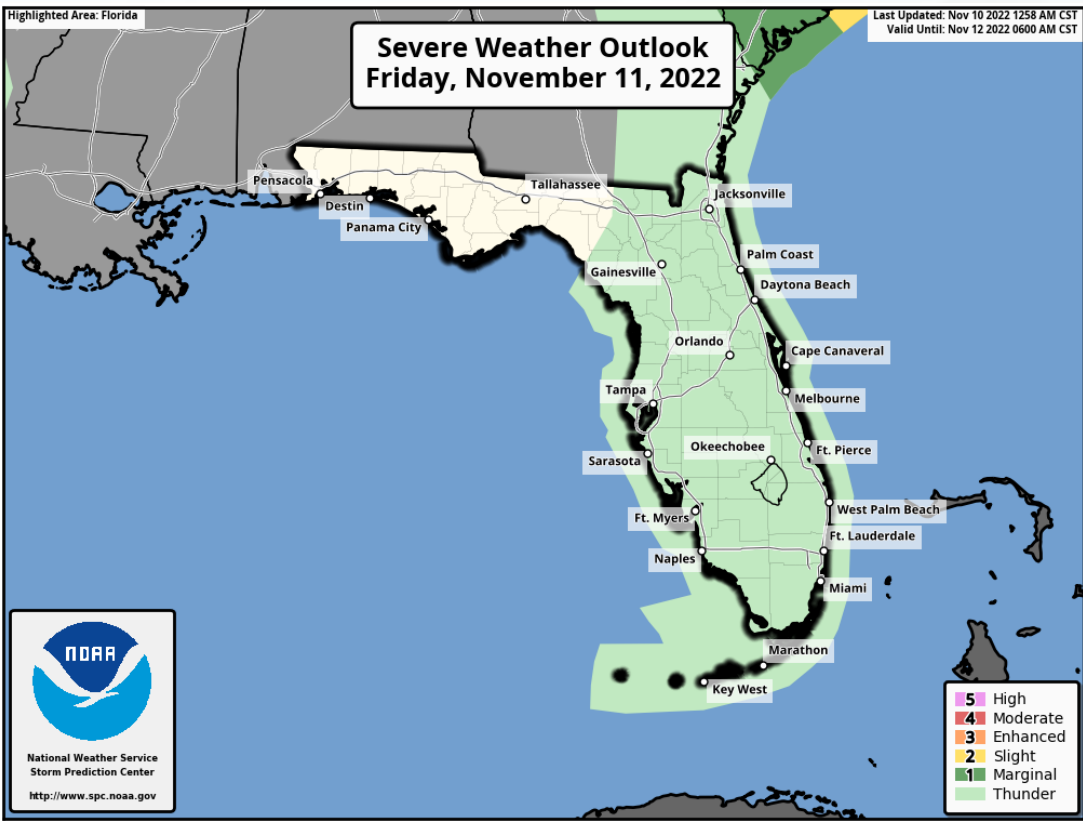
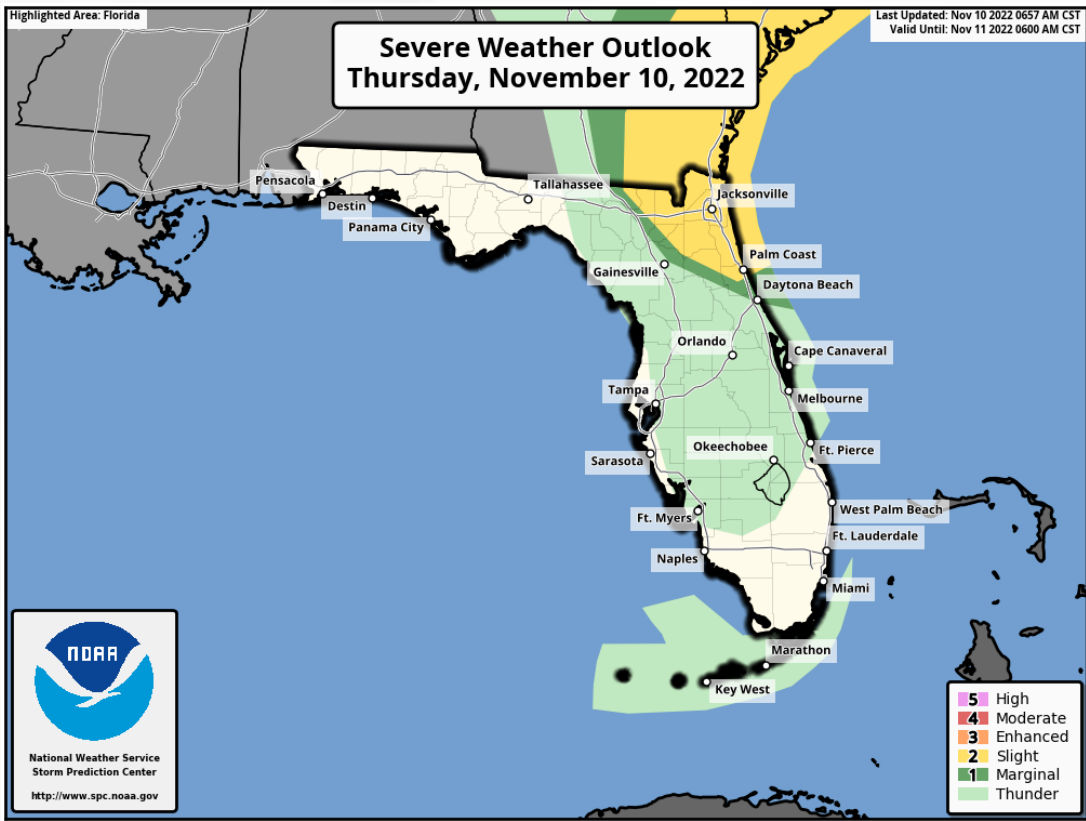


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Severe Weather Outlook

From the Storm Prediction Center



Outer rain bands from Nicole may produce isolated tornadoes across portions of Northeast Florida this afternoon.

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

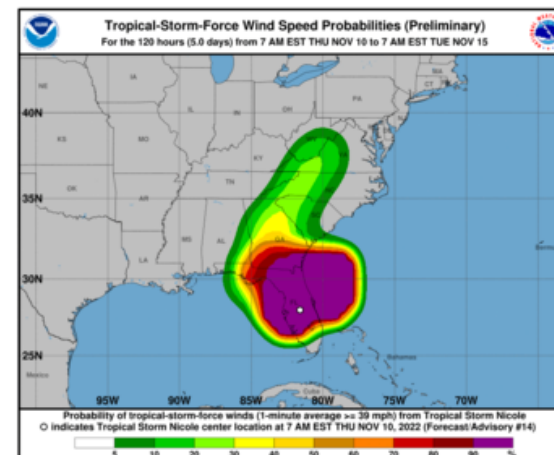
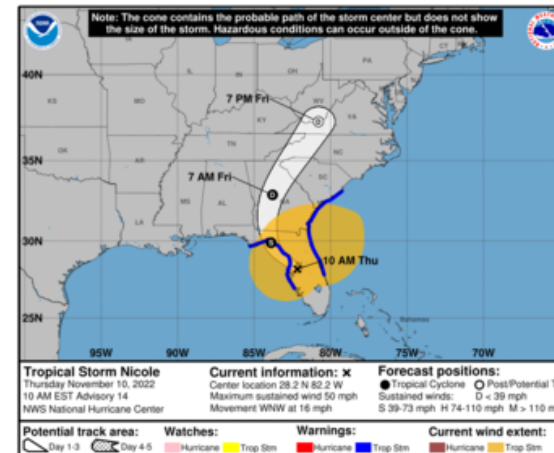


Key Messages for Tropical Storm Nicole

Advisory 14: 10:00 AM EST Thu Nov 10, 2022



1. Tropical storm conditions will continue along the east coast of Florida, Georgia, and South Carolina within the warning areas today. Tropical storm conditions will spread northward along the west coast of Florida to the coast of the Florida Panhandle through tonight.
2. A dangerous storm surge is expected along portions of the east-central and northeastern 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.
3. 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 continue to affect much of the Florida peninsula and portions of the southeast United States.
4. Nicole will produce heavy rainfall today across the Florida Peninsula. Flash and urban flooding will be possible across portions of the Florida Peninsula along with renewed river flooding on the St. Johns River. Isolated flash, urban, and small stream flooding will also be possible on Friday in the Southeast through the central Appalachians, including the Blue Ridge Mountains, and extending northward through eastern Ohio, west central Pennsylvania, into western New York by Friday night into Saturday.



For more information go to hurricanes.gov

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Summary

Tropical Storm Nicole:

- At 11:00 AM EST Thursday, Nicole is located about 30 miles northeast of Tampa, Florida and is moving west-northwest at 16 mph.
- A turn toward the northwest and north-northwest is expected later today, followed by a turn toward the north tonight. Nicole is expected to accelerate north-northeastward on Friday.
- On the forecast track, the center of Nicole will continue to move across the west-central Florida Peninsula this morning and emerge over the far northeastern Gulf of Mexico this afternoon. The center should then move across the Florida Panhandle and Georgia tonight, and then move through the southeastern United States on Friday.
- While maximum sustained winds continue to decrease, **Nicole remains a large tropical storm**. Tropical storm-force winds extend outward up to 345 miles from the center, especially to the northeast.
- Additional weakening is expected, and little change in strength is expected while Nicole is over the Gulf of Mexico this afternoon and evening. Nicole is expected to weaken to a depression over Georgia tonight, and then it is expected to merge with a frontal boundary by Friday night.

Florida Outlook:

- Nicole will continue to produce significant coastal flooding, strong winds, storm surge, heavy rain along portions of the East Coast today.
- Due to the large wind field of Nicole, strong wind gusts will continue across the entire Florida Peninsula and Florida Big Bend.
- A Tropical Storm Warning remains in effect for much of the Florida Peninsula, Big Bend, and Northeast Florida. Conditions will begin to gradually improve from south to north through the afternoon and evening in the Peninsula, additional Tropical Storm Warning cancellations can be expected.
- Tropical storm conditions are occurring across the Peninsula and will spread northwestward to the Big Bend and eastern Panhandle through the day.
- Elevated tides, ocean swells, and strong winds will push water upstream through the St. Johns, leading to coastal flooding along the river.
- During the high tide cycle, several points of the St. Johns River is peaking in moderate to major flood stage. Large rises on the St. Johns River have been observed, causing moderate to major flooding upstream of downtown Jacksonville. This could cause the same communities that experienced major flooding during Hurricane Ian and encounter a second wave of flood conditions that could persist for several weeks.
- Lingering high surf of 8-16' can be expected to continue along portions of the East Coast today, which may result in continued moderate to severe coastal erosion at times of high tide.
- A Storm Surge Warning remains in effect for the Sebastian Inlet northward, along the St. Johns River to Georgetown, and the Anclote River to the Ochlockonee River.
- Storm Surge Watches remain in effect from the Ochlockonee River westward to Indian Pass.
- Rainfall amounts of 3-4" have been observed along East-Central Florida over the past 12 hours. Additional rain amounts of 2-4" are possible across much of the Florida Peninsula and into North Florida over the next 72 hours, leading to a slight risk of flash flooding and rises on local rivers.
- Additional rainfall over portions of the East Coast may lead to a quicker onset of flooding as some locations received heavy rainfall totals over the past 12 hours.
- A Flood Watch remains in effect for 22 Florida counties.
- Isolated tornadoes are possible in the outer bands of Nicole across portions of Northeast Florida through the early afternoon.

The next briefing packet will be issued Thursday afternoon. 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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