



Tropical Update



5:30 AM EDT

Thursday, September 29, 2022

Tropical Storm Ian

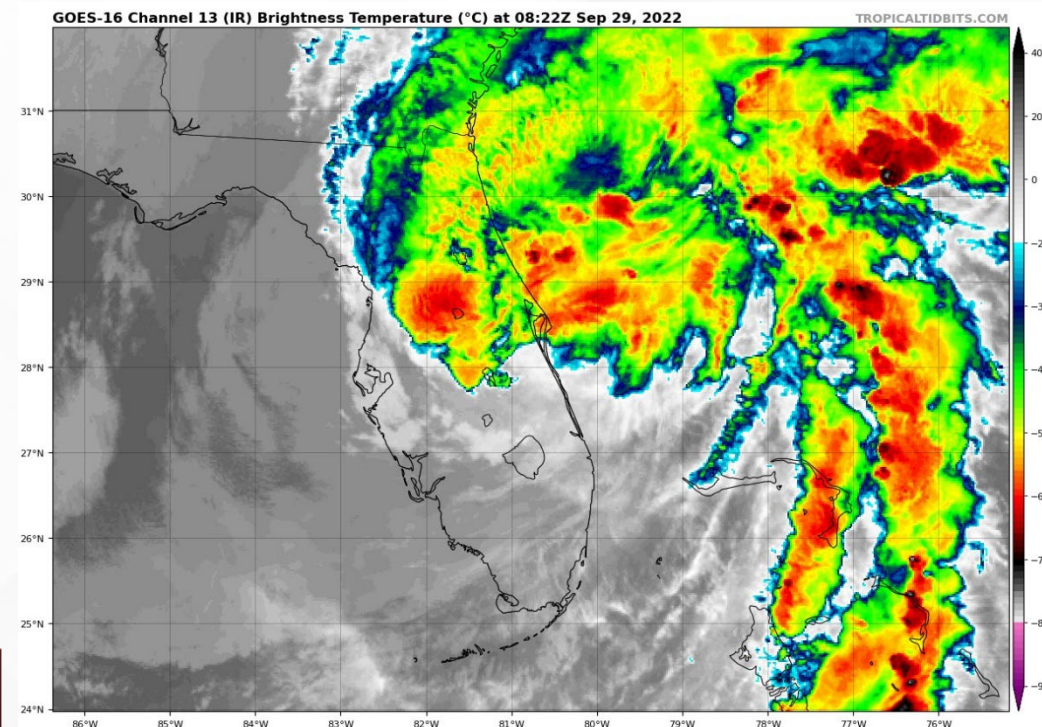
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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

5 AM Thursday: Florida Threats & Changes Since Last Packet

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



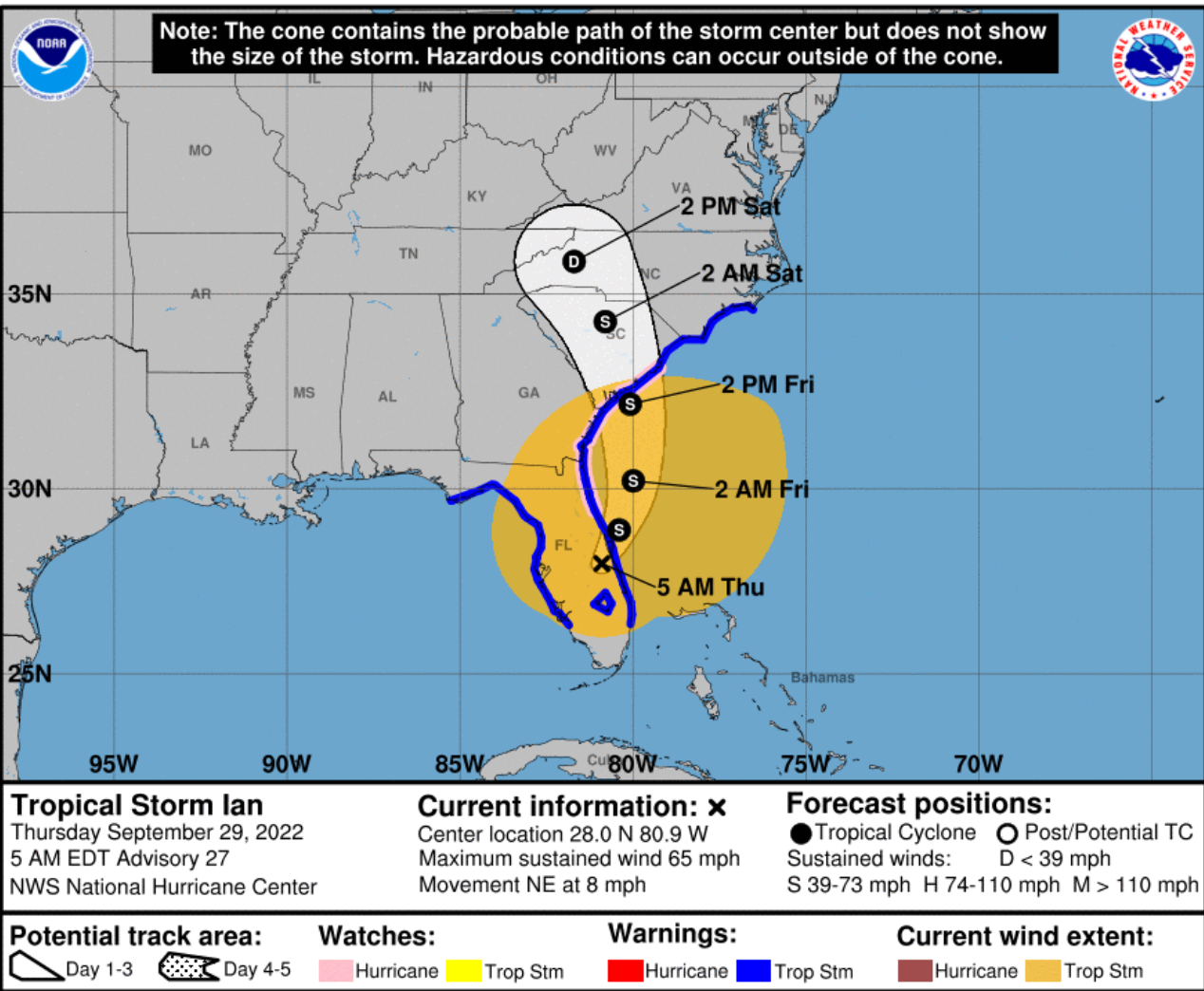
Overview/Recent Changes:

With the 5 AM Advisory, Ian is now a tropical storm with maximum sustained winds of 65 mph. The Hurricane Warnings along the East and West Coast of Florida Peninsula have been changed to Tropical Storm Warnings. Storm surge values of 4-6' can be expected along Southwest Florida from Englewood to Chokoloskee and along the Northeast Florida Coast.



Forecast Cone

Tropical Storm Ian ([LINK](#))



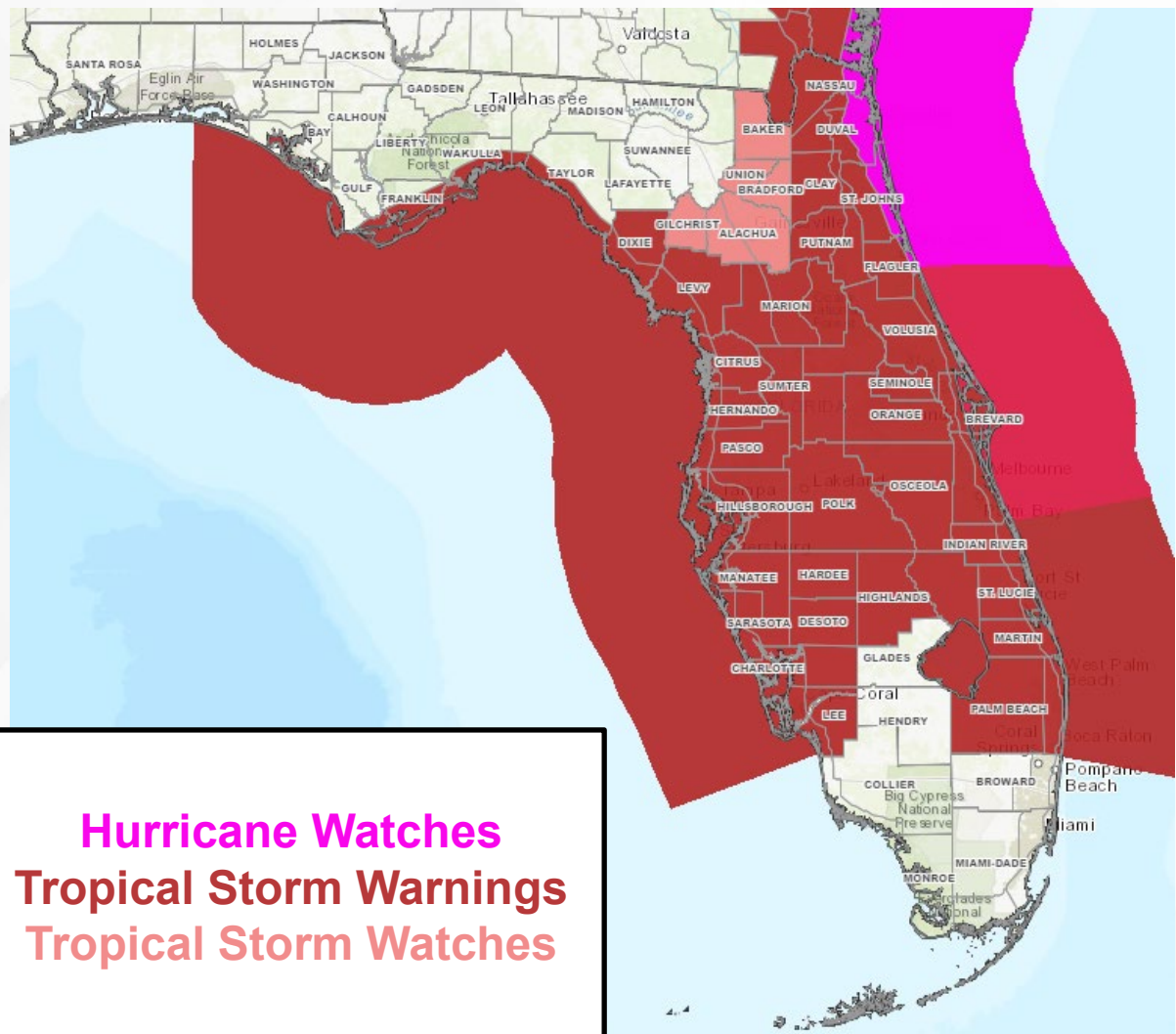
- **Location:** 40 miles SE of Orlando
- **Maximum Sustained Winds:** 65 mph
- **Current Movement:** NE at 8 mph
- **FL Watches/Warnings:**
 - **Tropical Storm Warnings:** North of Bonita Beach to Indian Pass, and Boca Raton northward
 - **Hurricane Watch:** Flagler/Volusia Line northward

A turn toward the north-northeast is expected later today, followed by a turn toward the north and north-west with an increase in forward speed Friday and Friday night. Ian is expected to move off the East-Central Coast of Florida later today. Maximum sustained winds have decreased to near 65 mph, and Ian is now a tropical storm. Some slight re-intensification is forecast, and Ian could be near hurricane strength over the western Atlantic waters on Friday.

Tropical storm-force winds extend outward up to 415 miles from the center.



Active Tropical Watches/Warnings



Hurricane Watch:

Coastal Nassau, coastal Duval, coastal St. Johns, coastal Flagler, coastal Flagler

Tropical Storm Watch:

Baker, Union, Bradford, Alachua, Gilchrist

Tropical Storm Warning:

Coastal Franklin, coastal Wakulla, coastal Jefferson, coastal Taylor, Dixie, Levy, Citrus, Hernando, Pasco, Sumter, Indian River, St. Lucie, Martin, mainland Monroe, Palm Beach, Pinellas, Hillsborough, Polk, Manatee, Sarasota, Hardee, DeSoto, Charlotte, Lee, Highlands, Okeechobee, Osceola, Orange, Seminole, Volusia, Brevard, Lake



Key Messages

From the National Hurricane Center



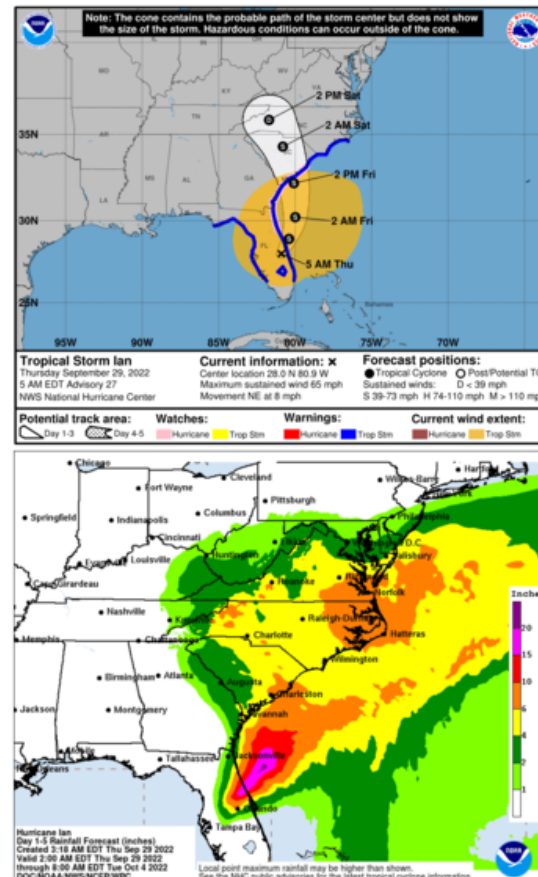
Key Messages for Tropical Storm Ian Advisory 27: 5:00 AM EDT Thu Sep 29, 2022



1. Coastal water levels continue to subside along the west coast of Florida. There is a danger of life-threatening storm surge today through Friday along the coasts of northeast Florida, Georgia, and South Carolina. Residents in these areas should follow any advice given by local officials.

2. Tropical-storm-force winds are expected to spread northward across northeastern Florida, Georgia, and the Carolina coasts through Friday. Hurricane conditions are possible through Friday along the coasts of northeastern Florida, Georgia and South Carolina where a Hurricane Watch is in effect.

3. Widespread, life-threatening catastrophic flooding, with major to record river flooding, will continue today across portions of central Florida with considerable flooding in northern Florida, southeastern Georgia and eastern South Carolina expected today through the end of the week.

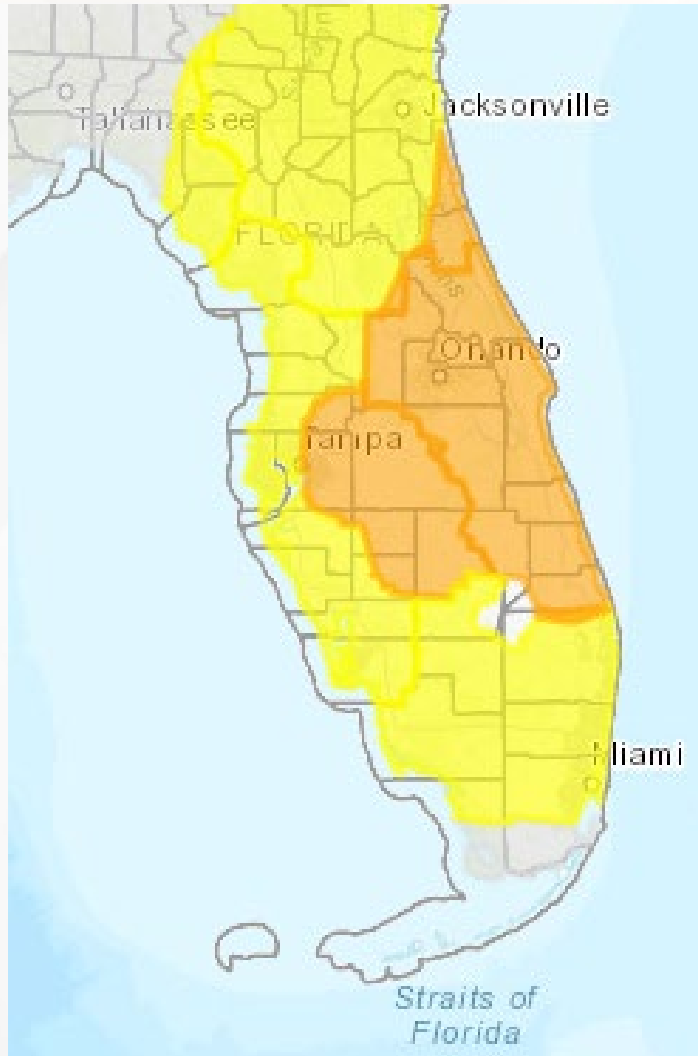


For more information go to hurricanes.gov



Damaging Wind Threat Overview

Tropical Storm Ian



The potential for damaging winds, strong tropical-force winds, will continue along the central and eastern Florida Peninsula.

[https://www.weather.gov/srh/tropical?
office=mfl](https://www.weather.gov/srh/tropical?office=mfl)

Click on “Threats and Impacts” Tab

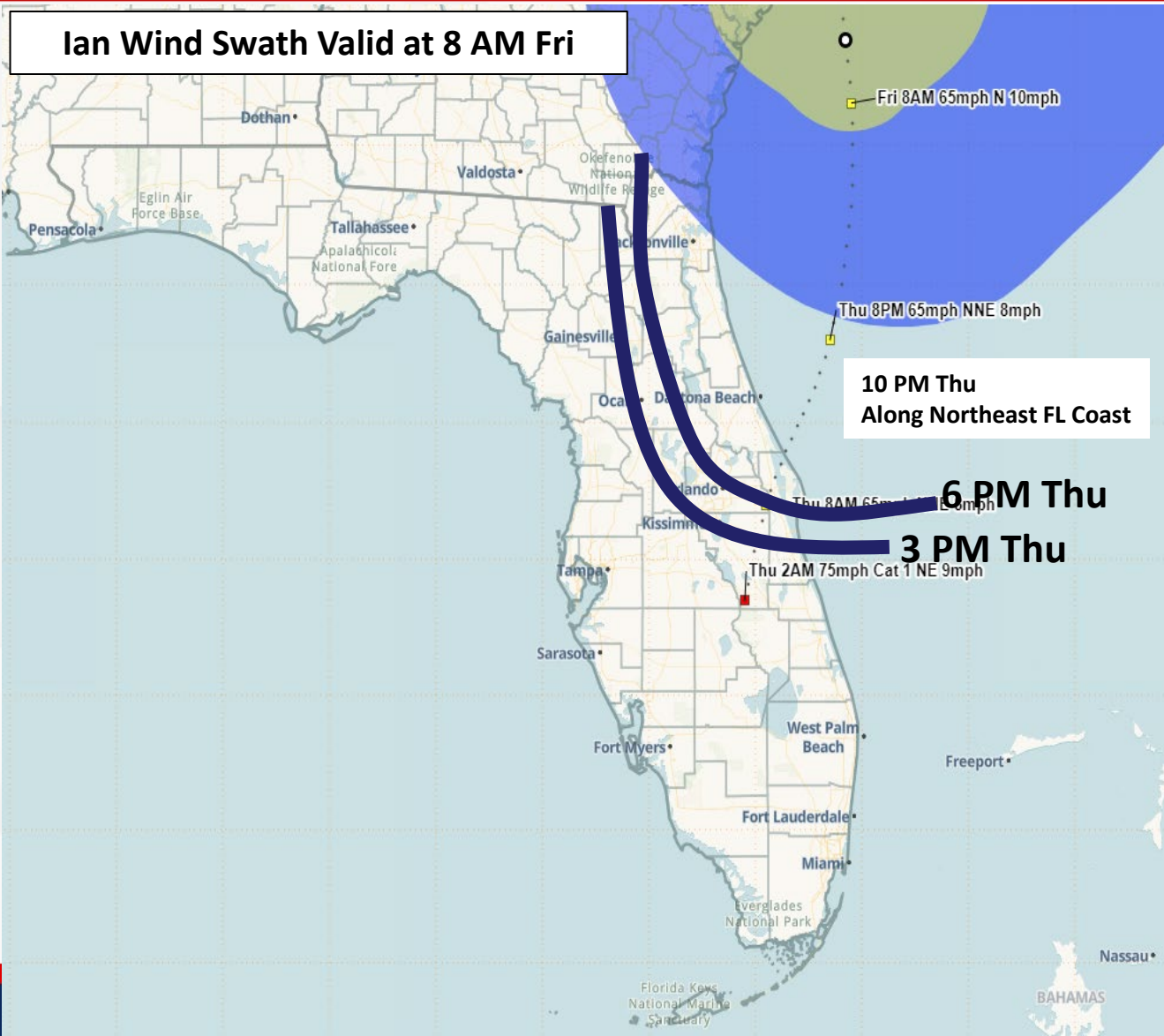
Wind Threat
Potential for wind greater than 110 mph
Potential for wind 74 to 110 mph
Potential for wind 58 to 73 mph
Potential for wind 39 to 57 mph
Wind less than 39 mph



End Time of Tropical Storm-Force Winds

MOST LIKELY End Time of Winds >39 mph

Ian Wind Swath Valid at 8 AM Fri



Note: Assumes a perfect forecast. Trailing tropical rain bands will contain locally gusty winds upon Ian's departure.

Tropical storm-force conditions will gradually improve through the day as Ian moves over the adjacent western Atlantic waters.

Lingering tropical storm-force conditions can be expected along the immediate Northeast Florida coastline, into Friday morning.



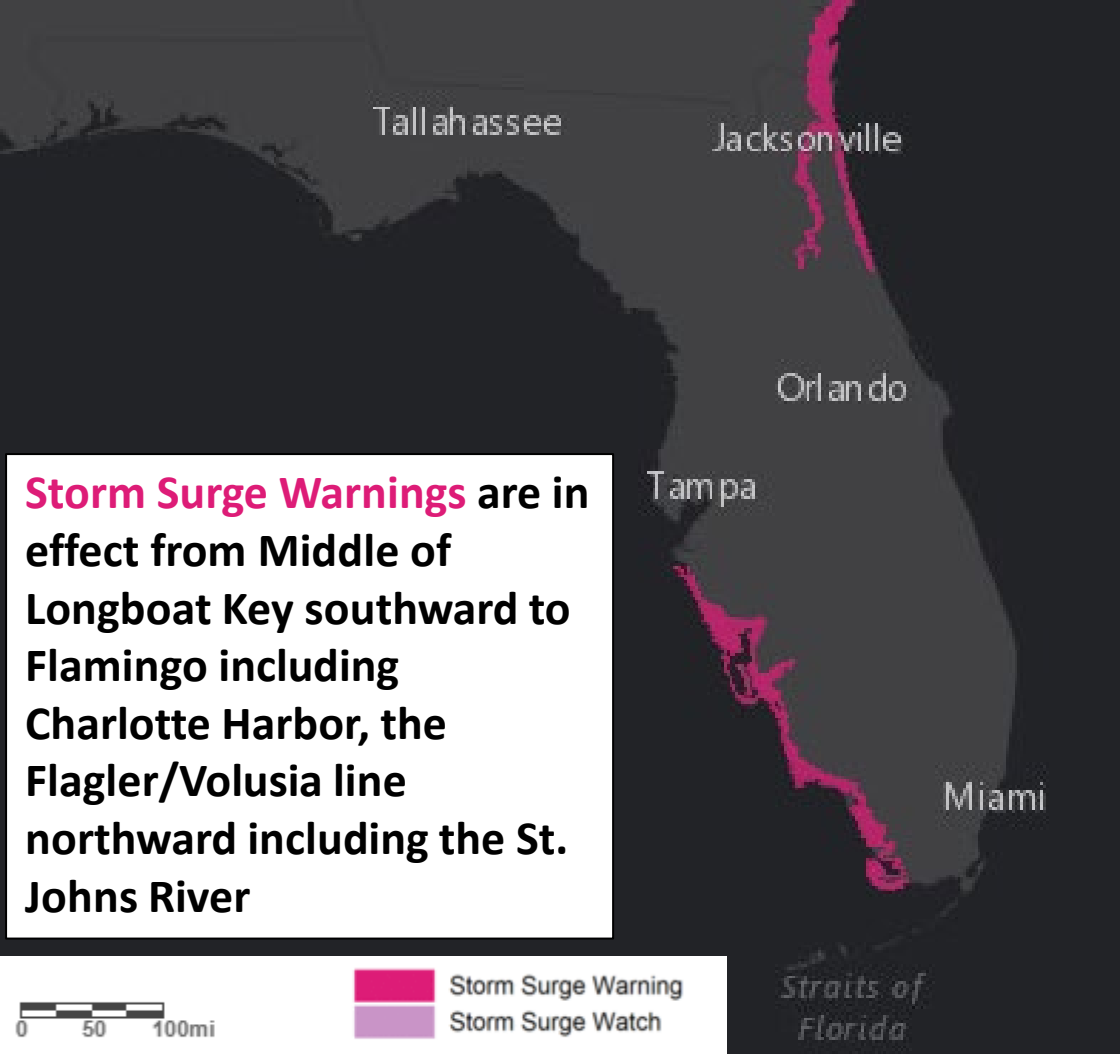
Surge Watches and Warnings

In Effect Until Further Notice





Tropical Storm Ian
Thursday September 29, 2022
05 AM EDT Advisory 27
NWS National Hurricane Center

User Notes: Water levels along the immediate coast could reach the following heights above ground level within the indicated areas. Elevated water levels will likely be accompanied by large and destructive waves. Colors are determined by the highest values in the associated forecast peak surge range. Values shown on this graphic are inclusive of tide.



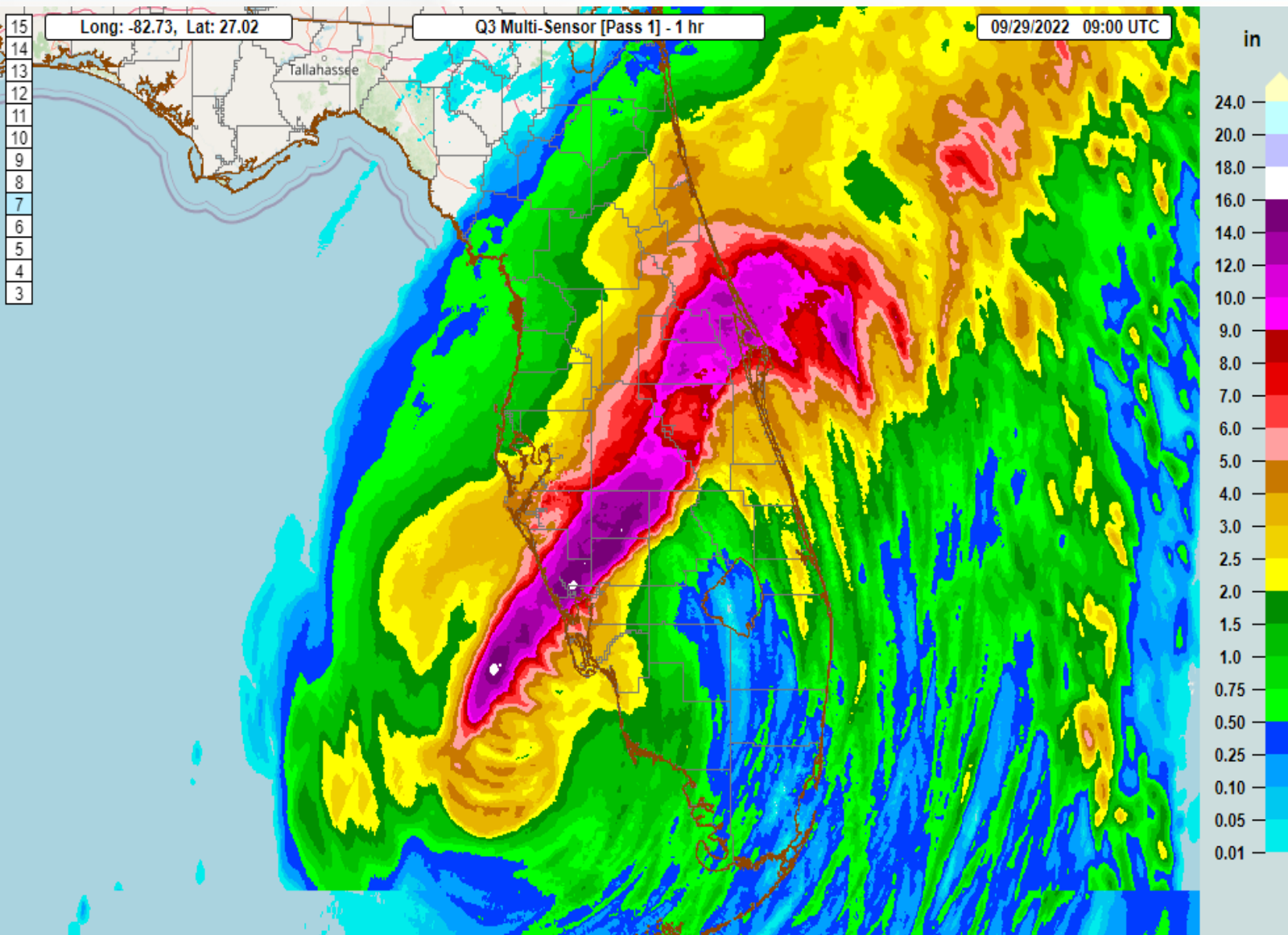
Storm Surge Warnings are in effect from Middle of Longboat Key southward to Flamingo including Charlotte Harbor, the Flagler/Volusia line northward including the St. Johns River

0 50 100mi

 Storm Surge Warning
 Storm Surge Watch



24-Hour Rainfall Totals

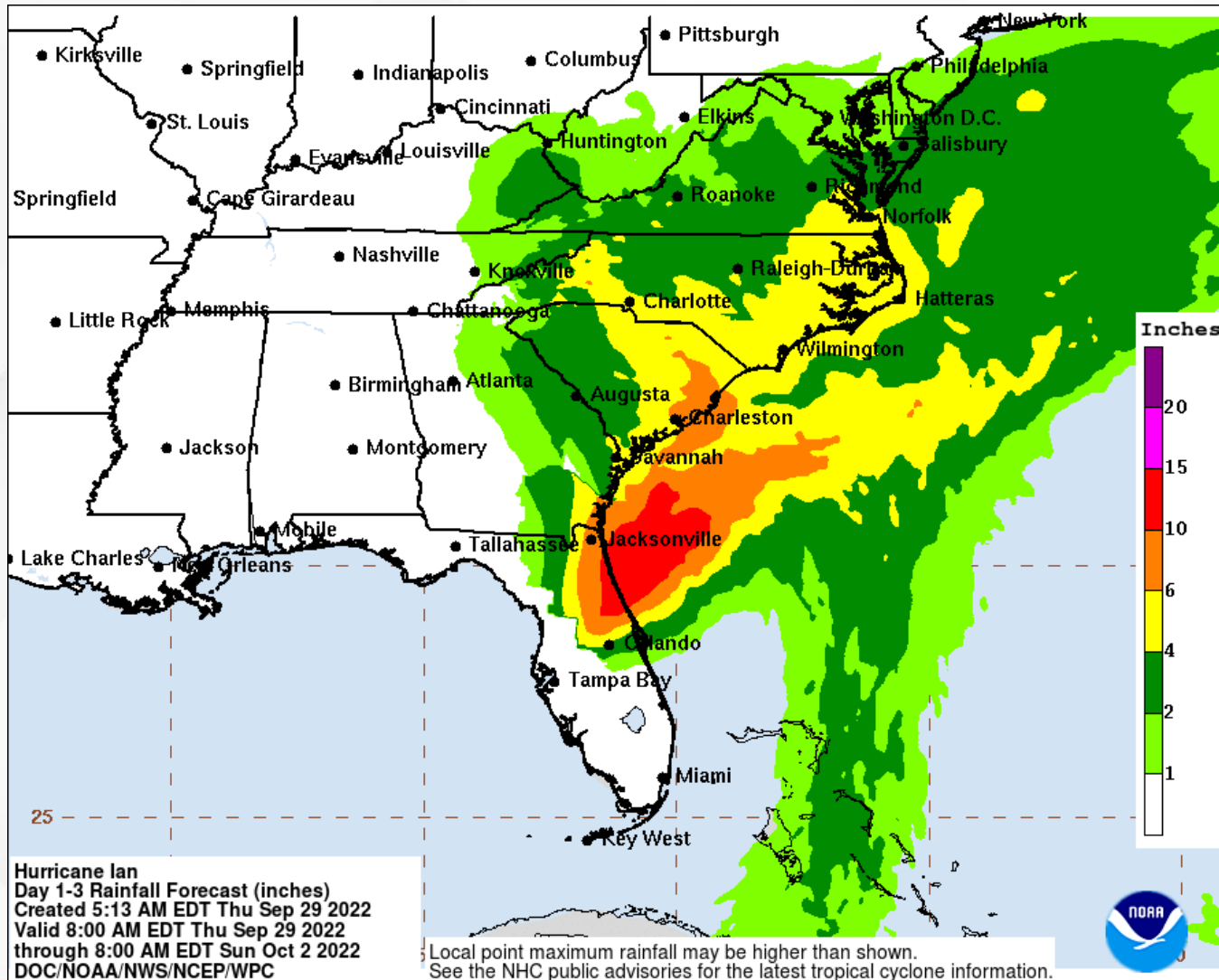


Widespread rainfall totals of 5-10" have been observed along the I-4 corridor, with the highest rainfall totals of 14-18" across portions of Manatee, Charlotte, Hardee, and DeSoto Counties.



3-Day Forecast Rainfall

From the Weather Prediction Center



Storm total rainfall of 10-20 inches of rain are expected across Central and Northeast Florida with localized totals exceeding 2 feet.

Significant, widespread, potentially catastrophic flash flooding is likely across these areas.

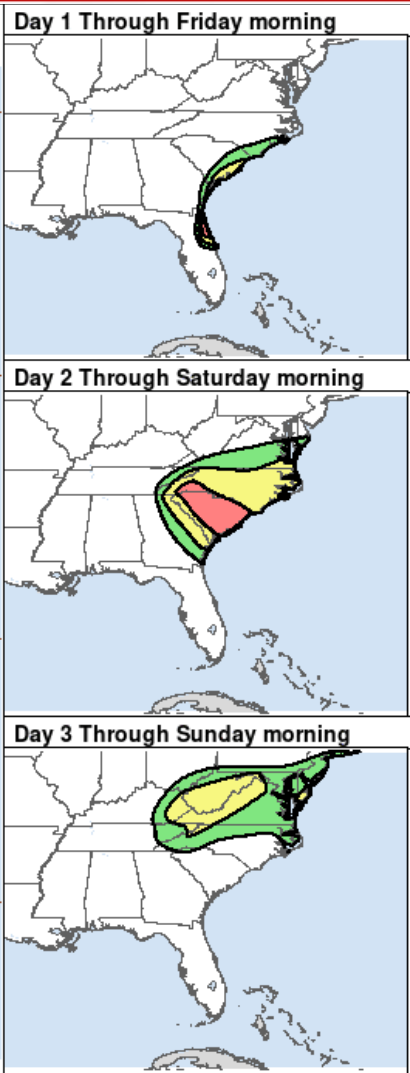
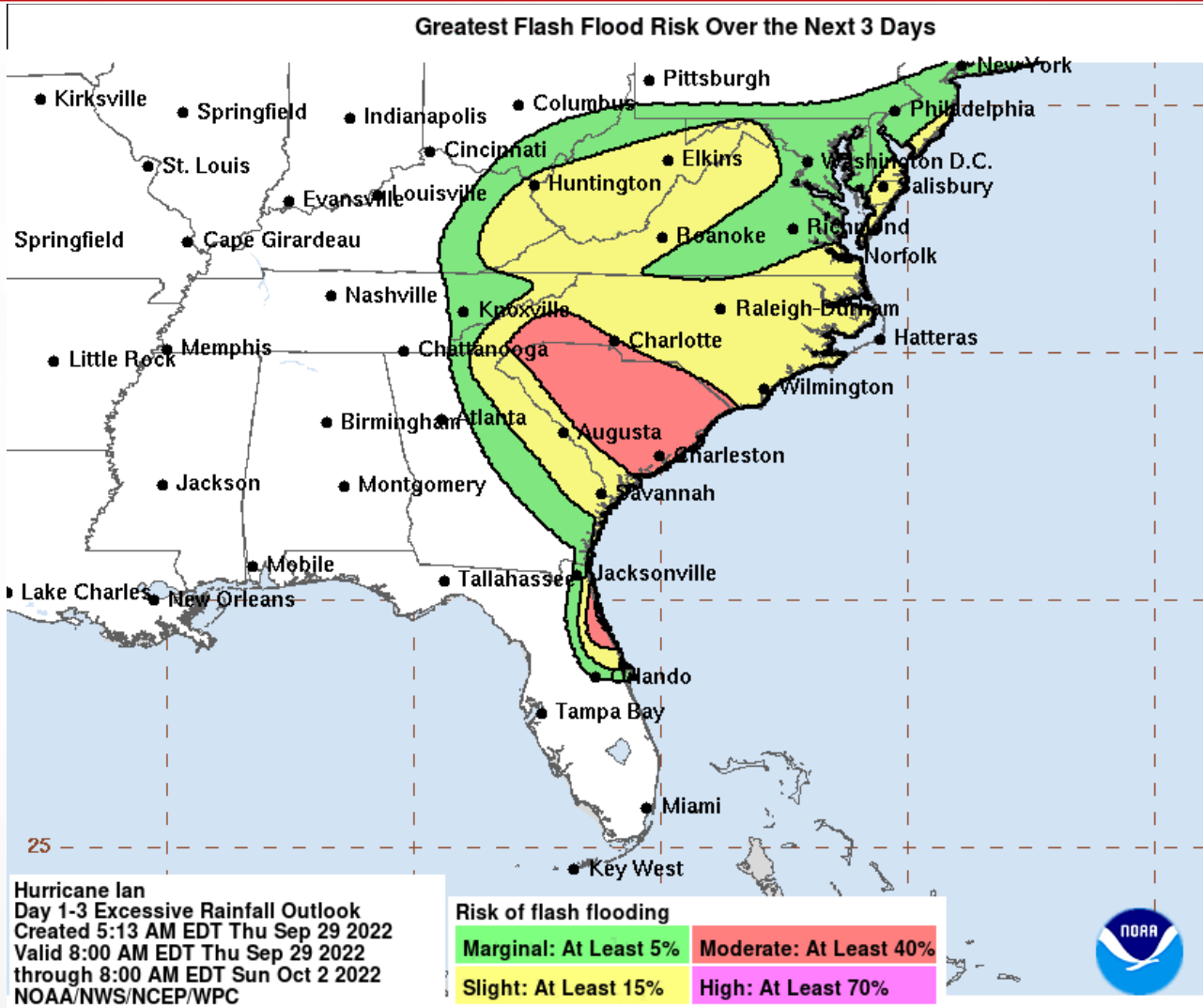


Flash Flood Outlooks

From the Weather Prediction Center

Understanding WPC Excessive Rainfall Risk Categories

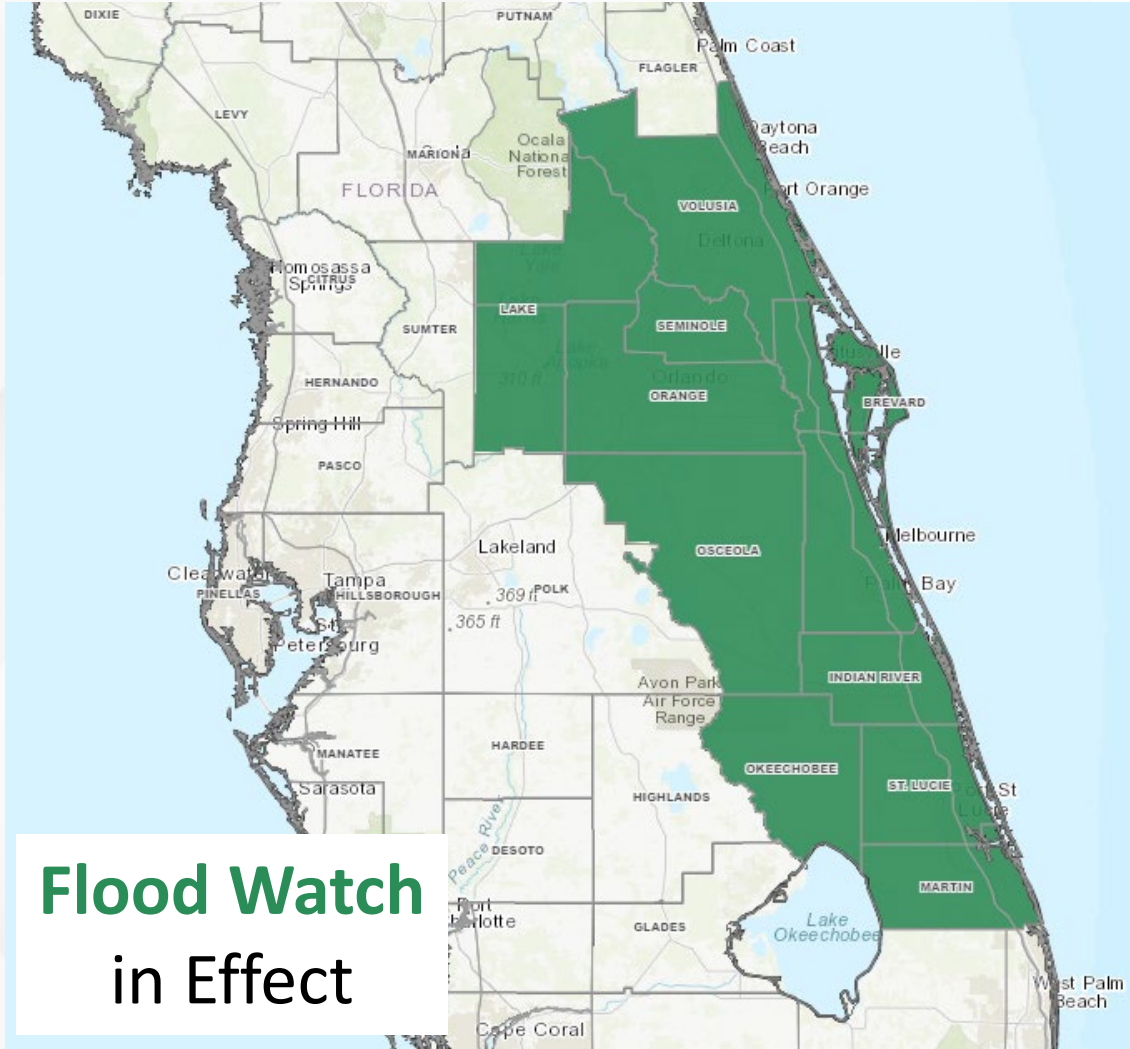
No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid 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				





Flood Watches in Effect

From the National Weather Service

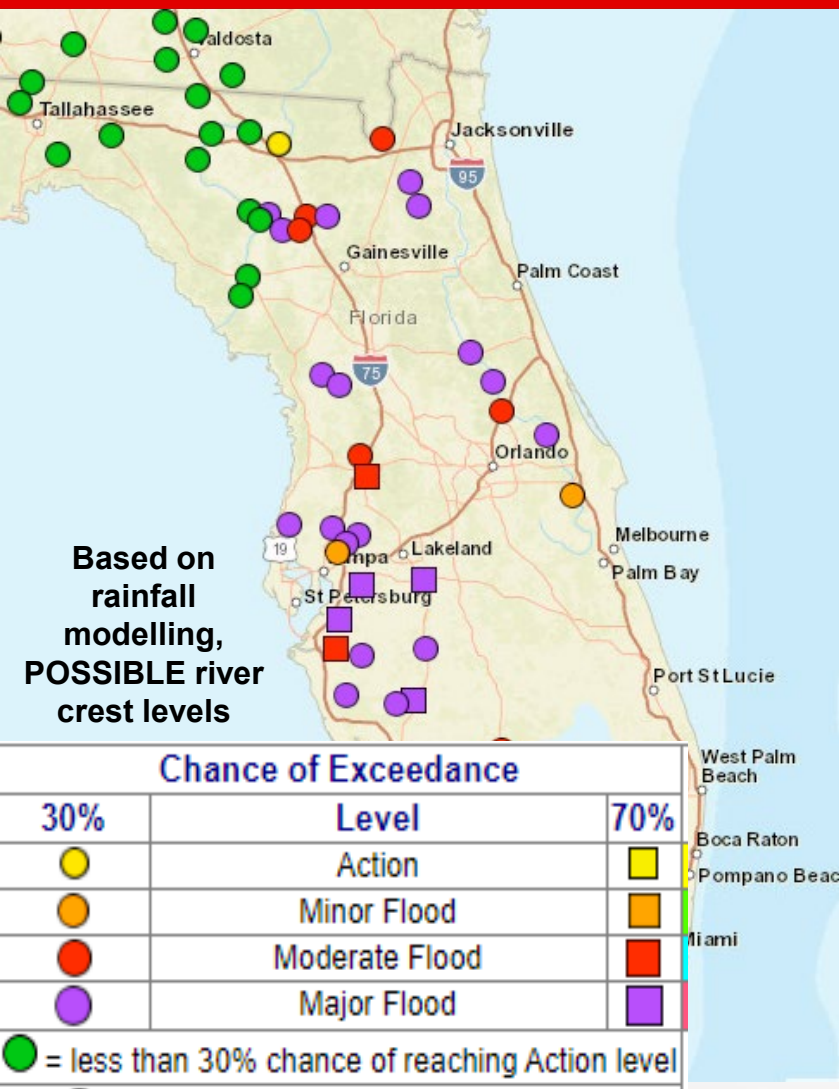


Flood Watches are in effect for the Eastern Peninsula until late tonight.

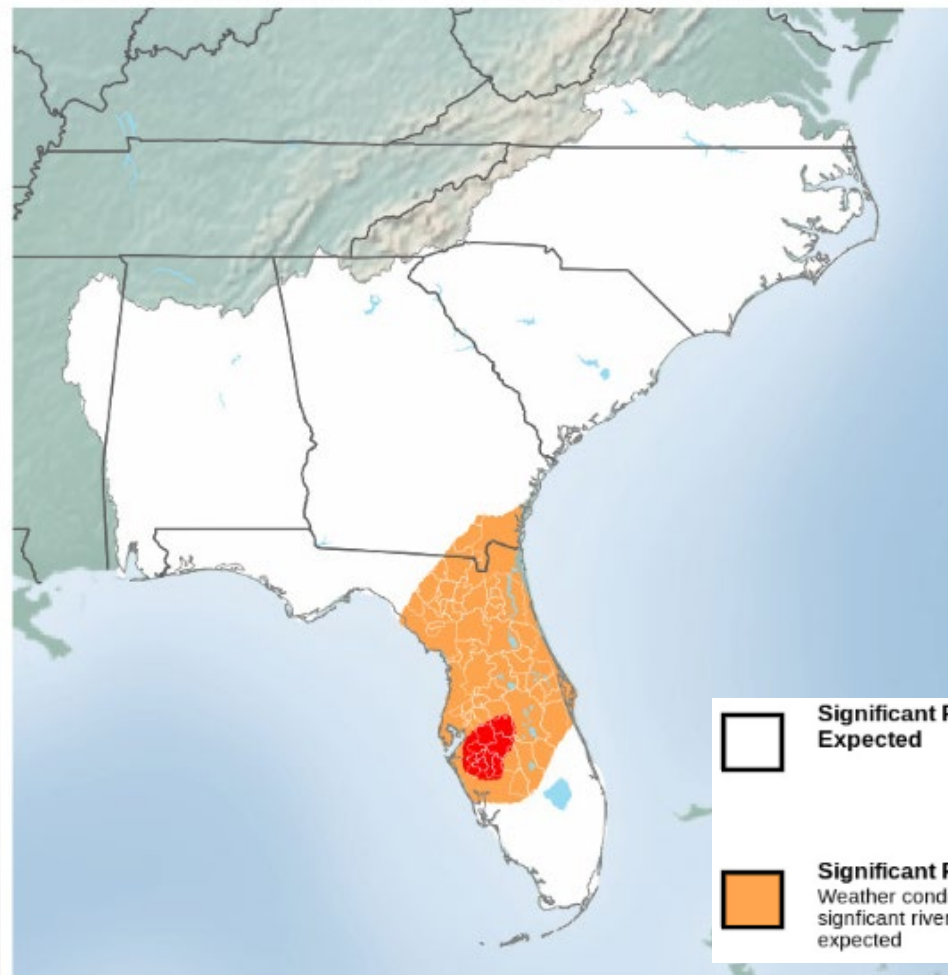


Riverine Flooding

Chance of River Flooding Based on Range of Forecast Rainfall



5-Day Significant River Flood Outlook
Valid: 09/28/2022 08:00 AM - 10/03/2022 08:00 AM EDT



Many rivers across Peninsula and Northeast Florida are forecast to reach **moderate to major flood** stage over the next several days, and river flooding will likely continue for days after the rainfall ends.





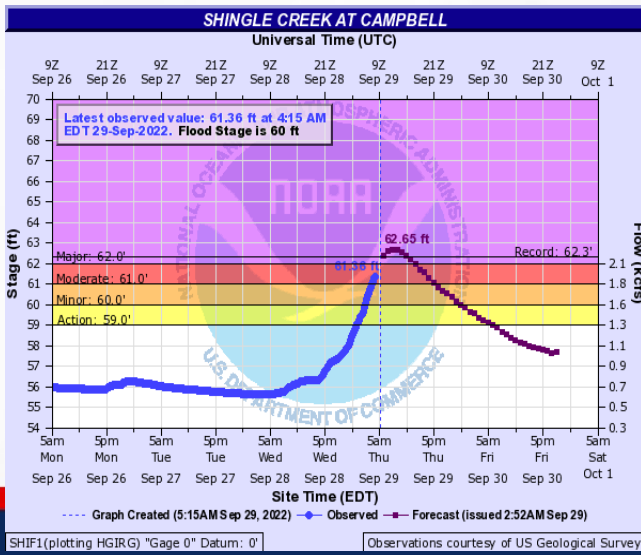
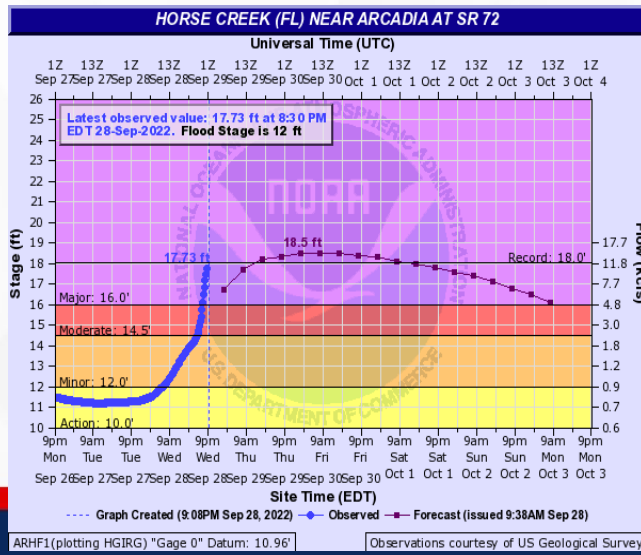
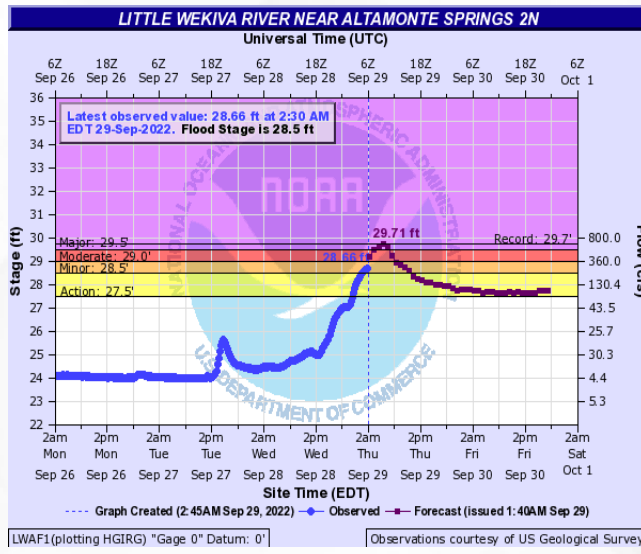
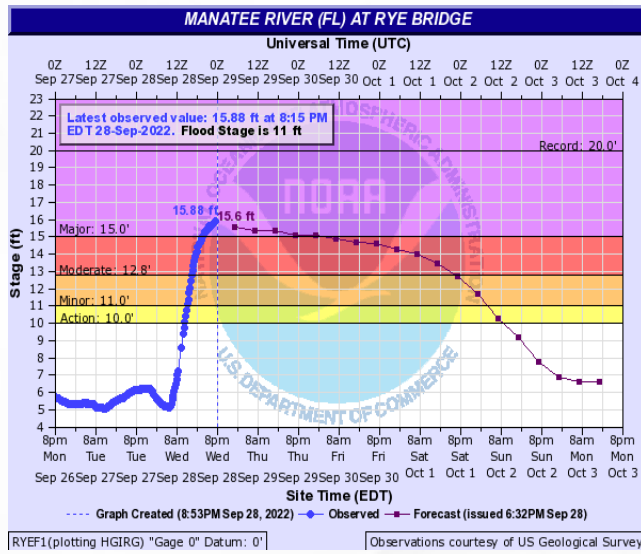
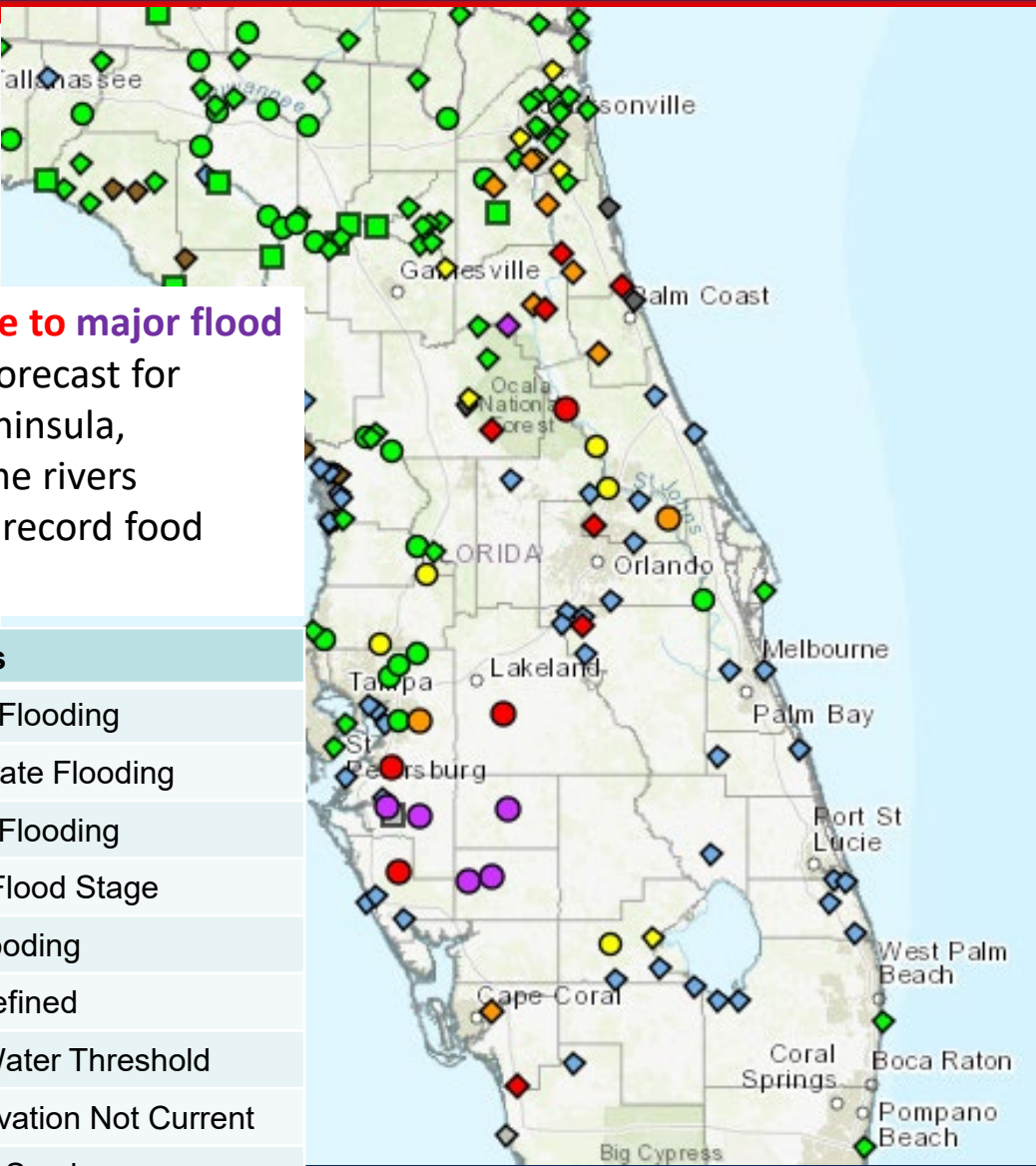
Current River Observations

As of Thursday Morning

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Moderate to major flood stage is forecast for many Peninsula, With some rivers reaching record food levels

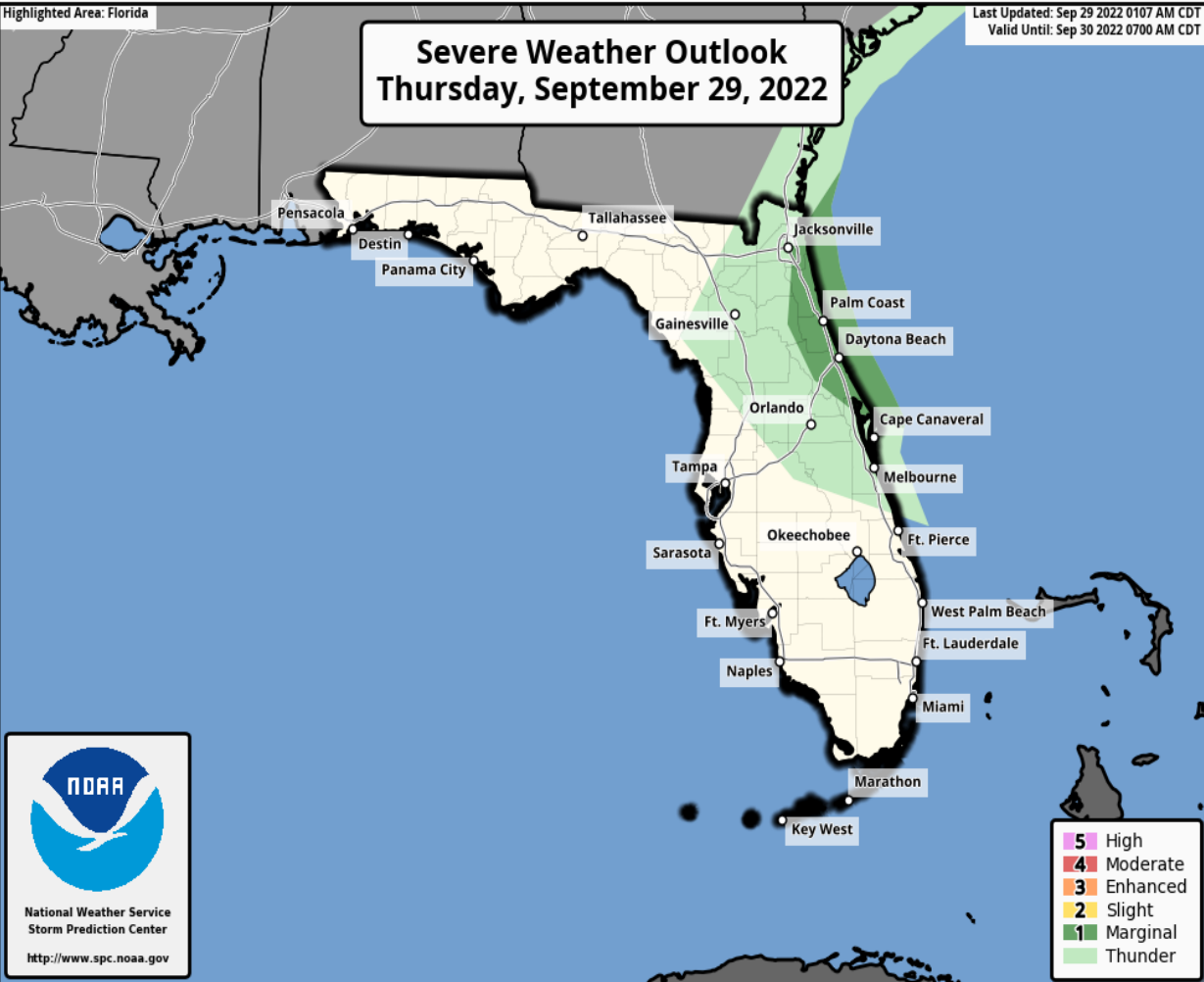
Status
Major Flooding
Moderate Flooding
Minor Flooding
Near Flood Stage
No Flooding
Not Defined
Low Water Threshold
Observation Not Current
Out of Service





Severe Weather Outlook

From the Storm Prediction Center



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 <u>all</u> 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

The threat for isolated tornadoes will continue into Thursday across portions of the Florida East Coast. A **Marginal Risk (level 1 of 5)** can be expected along the Northeast Florida I-95 corridor.



Summary

Tropical Storm Ian:

- At 5:00 AM EDT, Ian was located about 40 miles southeast of Orlando, and moving northeastward at 8 mph.
- A turn toward the north-northeast is expected later today, followed by a turn toward the north and north-west with an increase in forward speed Friday and Friday night. Ian is expected to move off the East-Central Coast of Florida later today.
- Maximum sustained winds have decreased to near 65 mph, and Ian is now a tropical storm.
- Some slight re-intensification is forecast, and Ian could be near hurricane strength over the western Atlantic waters on Friday.
- Tropical storm-force winds now extend up to 415 miles outward from the center.

Florida Outlook:

- Hurricane Warnings along the east and west coasts of Florida have been changed to Tropical Storm Warnings.
- **Tropical Storm Warnings** remain in effect for north of Bonita Beach to Indian Pass, Boca Raton northward, and Lake Okeechobee.
- A **Hurricane Watch** remains in effect for the Flagler/Volusia countyline northward.
- A **Storm Surge Warning** is in effect from the middle of Longboat Key southward to Flamingo, including Charlotte Harbor, and the Flagler/Volusia countyline northward, including the St. Johns River.
- Storm surge values of 4-6' are forecast from Englewood southward to Chokoloskee, and the Northeast Florida Coast. Surge values of 3-5' are forecast along the St. Johns River.
- Tropical storm-force winds will slowly end from south to north starting late tonight and continuing through early Friday morning.
- Rainfall will be a major and potentially catastrophic hazard with this storm. Northeast and Central Florida could see storm total 12-20 inches of rain with localized storm totals in excess of 30 inches. A **Flood Watch** is in effect for the eastern Peninsula.
- Major to record river flooding is expected along many Northeast and Central Florida rivers for days after the rain ends.
- Isolated tornadoes remain possible along the Northeast Florida I-95 corridor today.

The next briefing packet will be issued following the 11:00 AM Advisory. 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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