



Tropical Update



6:00 PM EDT

Wednesday, September 28, 2022

Major Hurricane 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.



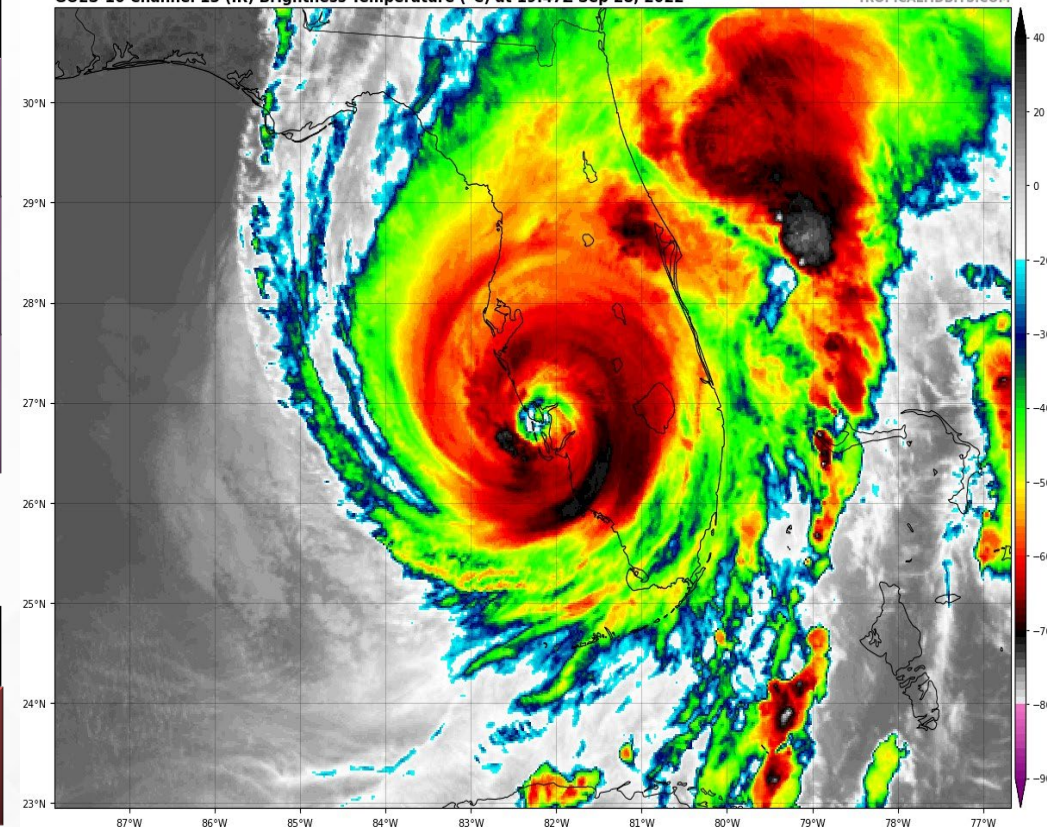
Major Hurricane Ian

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

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

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 19:47Z Sep 28, 2022

TROPICALTIDBITS.COM



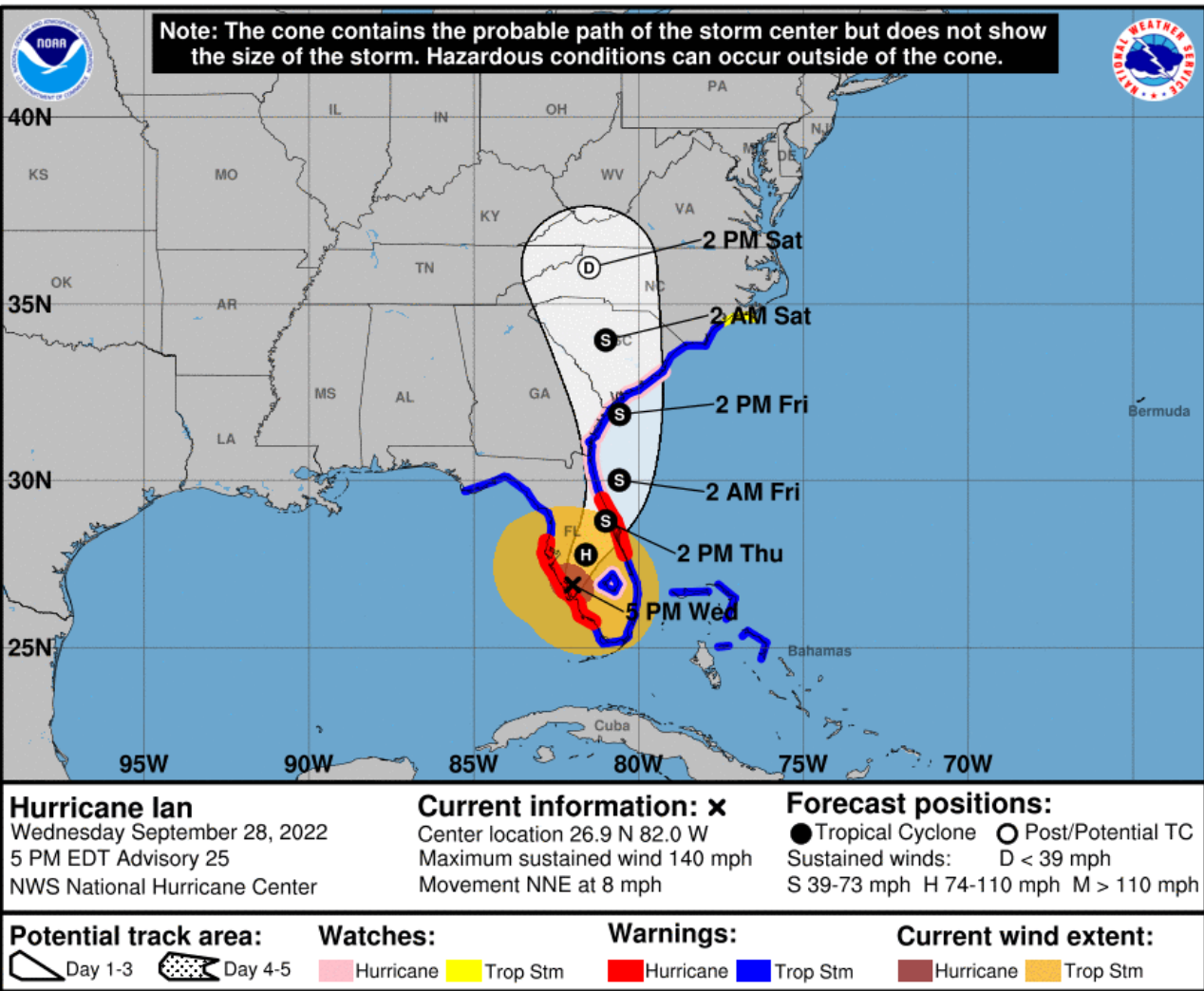
Overview/Recent Changes:

Ian made landfall at 3:05 PM ET near Cayo Costa as a extremely powerful Category 4 hurricane. Tropical Storm and Storm Surge Watches/Warnings have been dropped for the Florida Keys.



Forecast Cone

Major Hurricane Ian ([LINK](#))



As of 6pm ET:

- **Location:** 15 miles ENE of Punta Gorda; 110 miles SSW of Orlando
- **Maximum Sustained Winds:** 130 mph, Category 4
- **Current Movement:** NNE at 8 mph
- **FL Watches/Warnings:**
 - **Hurricane Warnings:** Chokoloskee to Anclote River, including Tampa Bay; Sebastian Inlet to Flagler/Volusia Line
 - **Tropical Storm Warnings:** Indian Pass to Anclote River; Flamingo to Sebastian Inlet; Flagler/Volusia Line northward; Flamingo to Chokoloskee
 - **Hurricane Watch:** Flagler/Volusia Line northward

Ian made landfall around 3:05 pm ET this afternoon as a powerful Category 4 hurricane. Ian will continue to move inland toward the northeast before moving off the Atlantic coast Tuesday afternoon or evening. Ian will move near the Northeast Florida Coast Thursday night and early Friday morning.

Weakening is forecast, and Ian will likely be a tropical storm by Thursday morning. However, Ian will remain a moderate to strong tropical storm as it emerges into the Atlantic.

Hurricane-force winds extend outward up to 50 miles from the center and tropical-storm-force winds extend outward up to 175 miles.



Active Tropical Watches/Warnings



- **Hurricane Warning:**
 - Pinellas, Hillsborough, Polk, Manatee, Sarasota, Hardee, DeSoto, Charlotte, Lee, Collier, Hendry, Glades, Highlands, Okeechobee, Osceola, Orange, Seminole, Volusia, Brevard, Lake
- **Hurricane Watch:**
 - Coastal Nassau, coastal Duval, coastal St. Johns, coastal Flagler
- **Tropical Storm Warning:**
 - Coastal Franklin, coastal Wakulla, coastal Jefferson, coastal Taylor, Dixie, Levy, Citrus, Hernando, Pasco, Sumter, Indian River, St. Lucie, Martin, Hendry, Glades, Collier, mainland Monroe, Palm Beach, Broward, Miami-Dade
- **Tropical Storm Watch:**
 - Baker, Union, Bradford, Alachua, Gilchrist



Key Messages

From the National Hurricane Center



Key Messages for Hurricane Ian

Advisory 25: 5:00 PM EDT Wed Sep 28, 2022

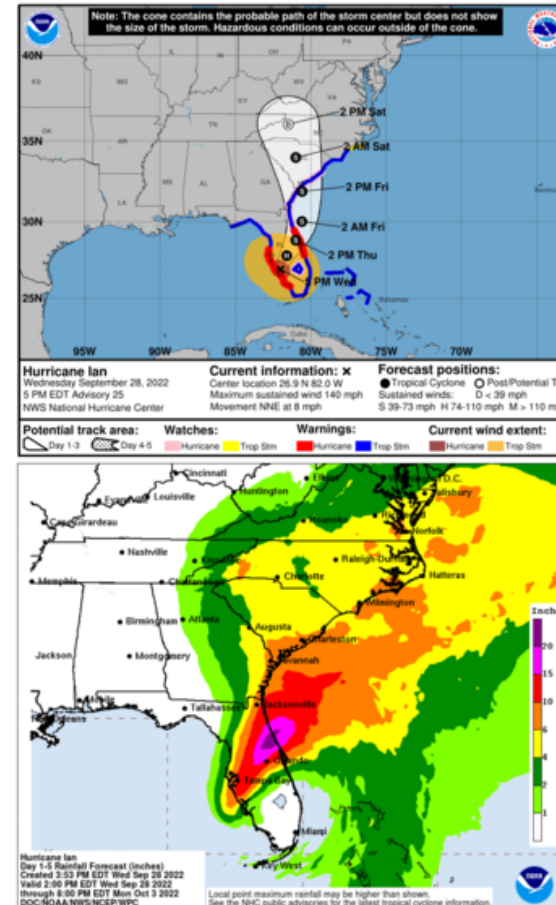


1. Catastrophic storm surge inundation of 12 to 18 feet above ground level along with destructive waves is ongoing along the southwest Florida coastline from Englewood to Bonita Beach, including Charlotte Harbor.

2. Catastrophic wind damage is occurring along the southwestern coast of Florida in areas near the eyewall of Ian. Hurricane-force winds, especially in gusts, are expected to spread inland to central Florida near the core of Ian through early Thursday. Hurricane conditions are expected along the east-central Florida coast overnight through early Thursday.

3. Heavy rainfall will spread across the Florida peninsula through Thursday and reach portions of the Southeast U.S. later this week and this weekend. Widespread, life-threatening catastrophic flooding, with major to record river flooding, are expected to continue across portions of central Florida with considerable flooding in northern Florida, southeastern Georgia and eastern South Carolina.

4. There is a danger of life-threatening storm surge on Thursday and Friday along the coasts of northeast Florida, Georgia, and South Carolina, with hurricane conditions possible. Residents in these areas should follow any advice given by local officials.



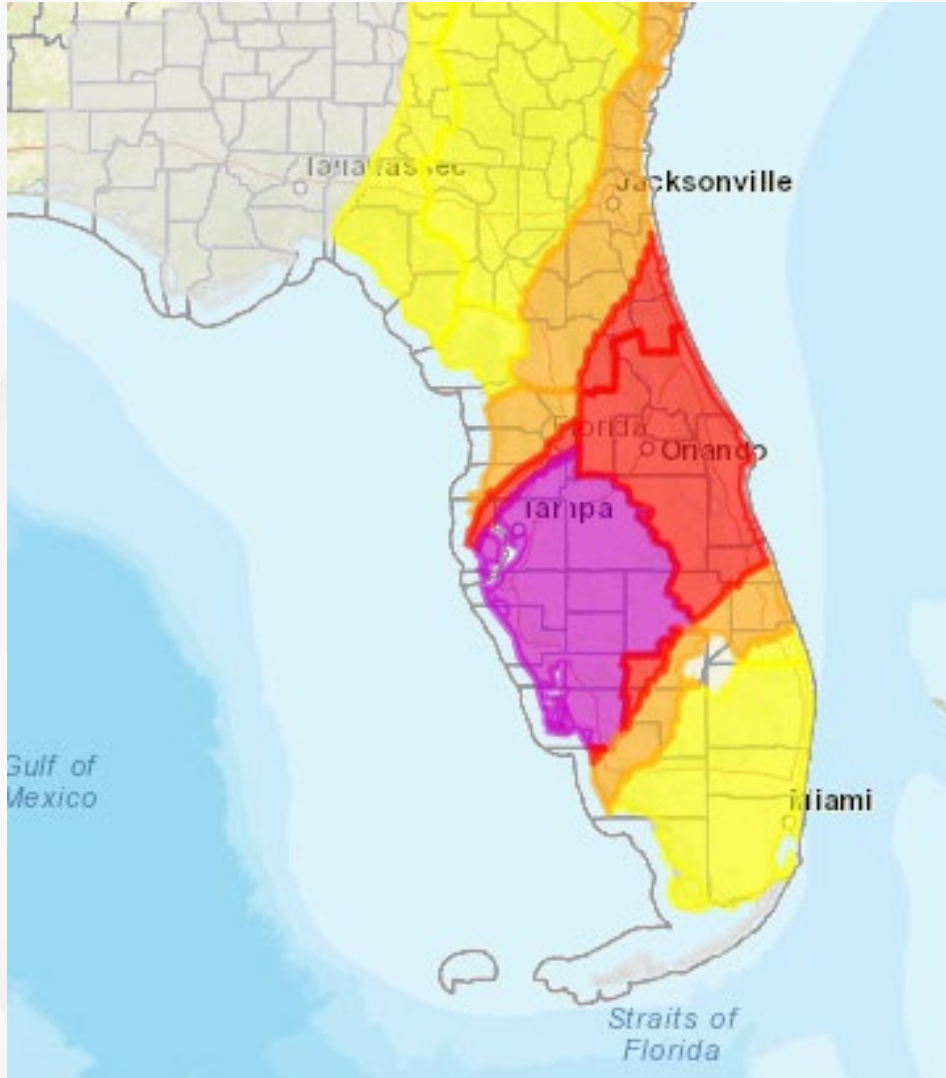
For more information go to hurricanes.gov

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Damaging Wind Threat Overview

Major Hurricane Ian



Potentially catastrophic winds are expected near the landfall point. Considerable damaging winds are expected across much of Central Florida.

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

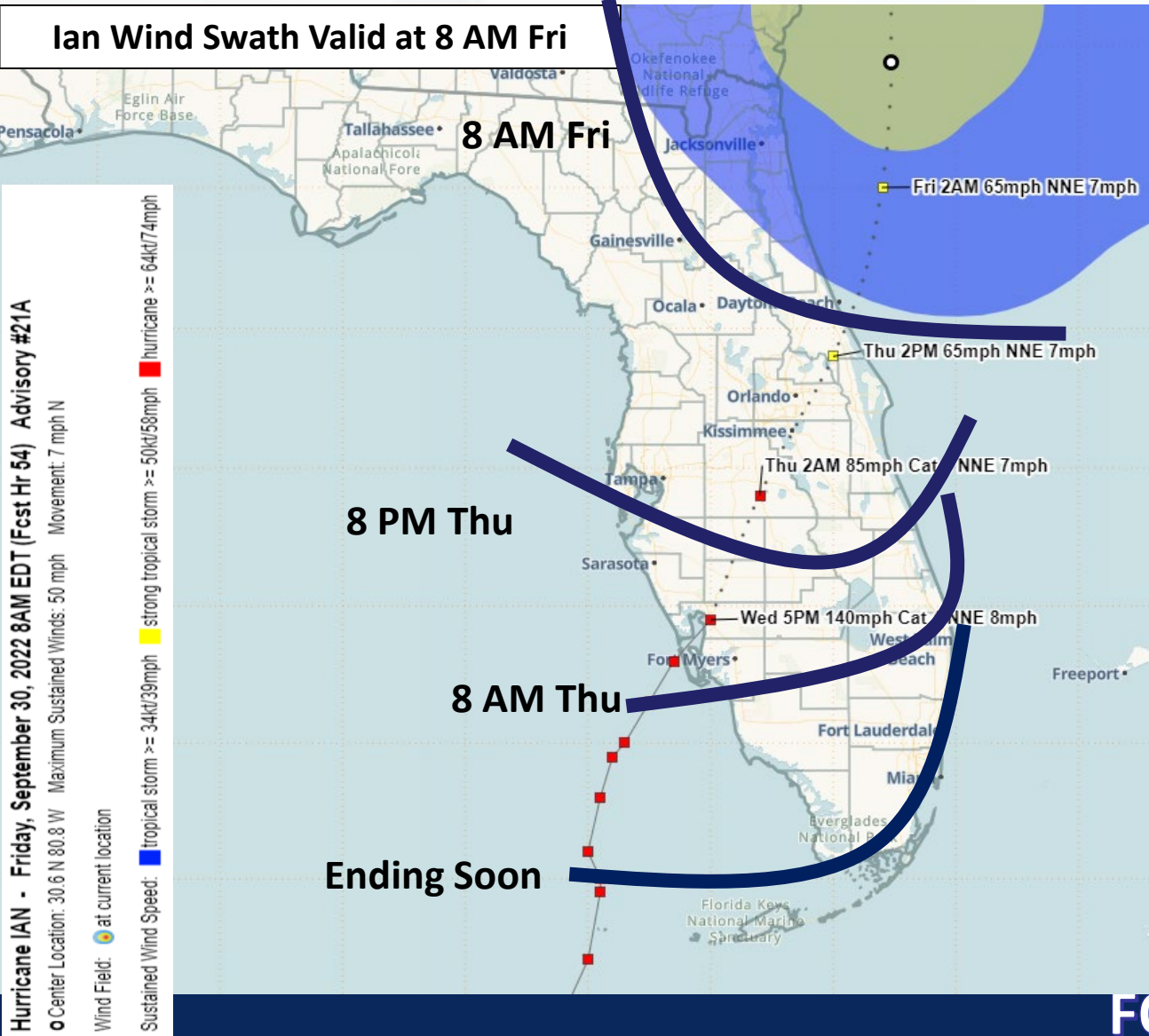
Click on “Threats and Impacts” Tab

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



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

Conditions look to begin to improve for the Florida Keys, far South Florida, and the Miami Metro later this evening.

Tropical storm-force winds will slowly dissipate from south to north Thursday and Friday.

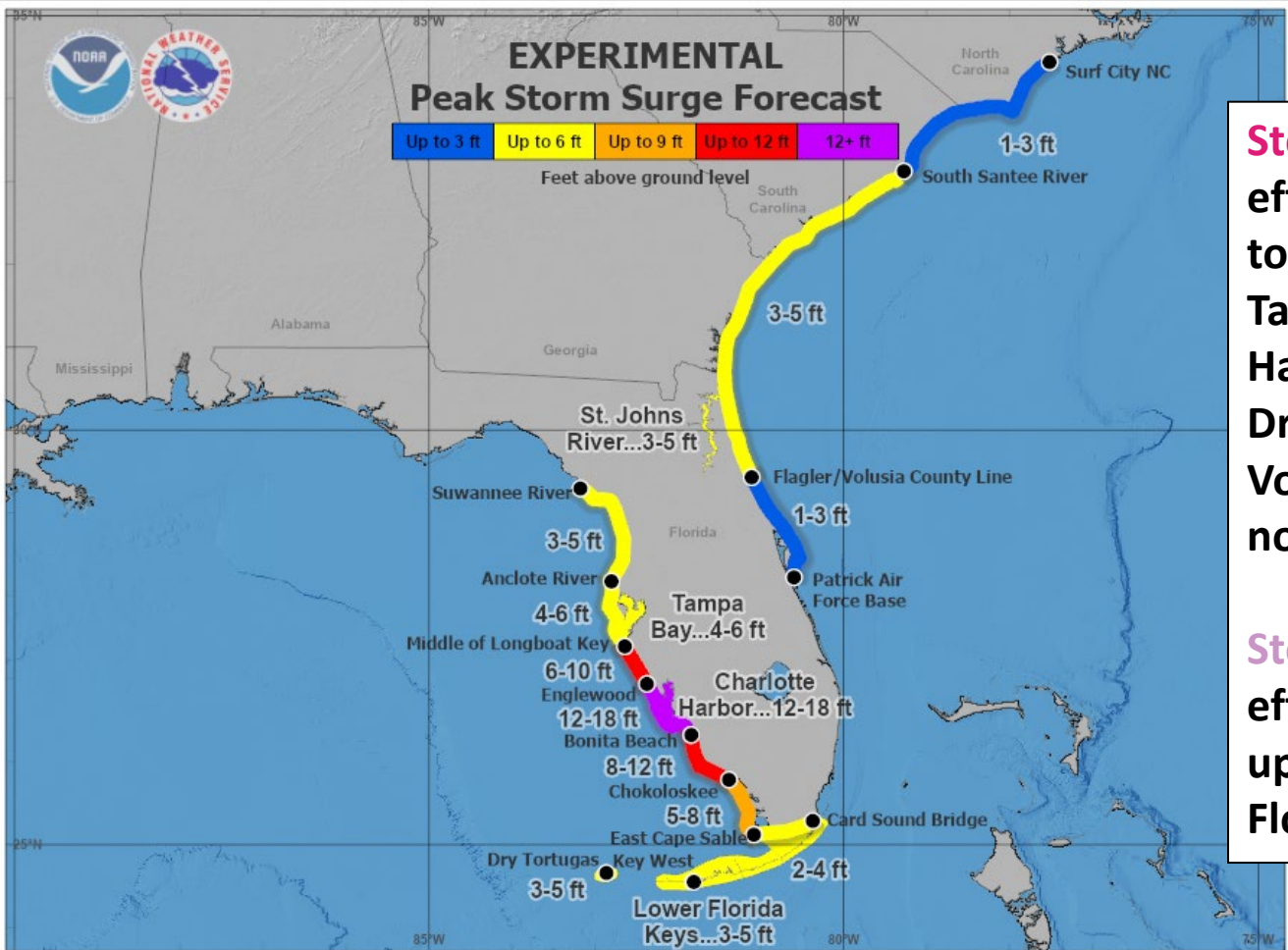
Conditions begin to improve across Fort Myers and West Palm Beach Thursday afternoon, Tampa Thursday evening, and Orlando into the Space Coast late Thursday night.

Tropical storm-force winds may still be present over Northeast Florida and the Jacksonville Metro later into the day Friday.



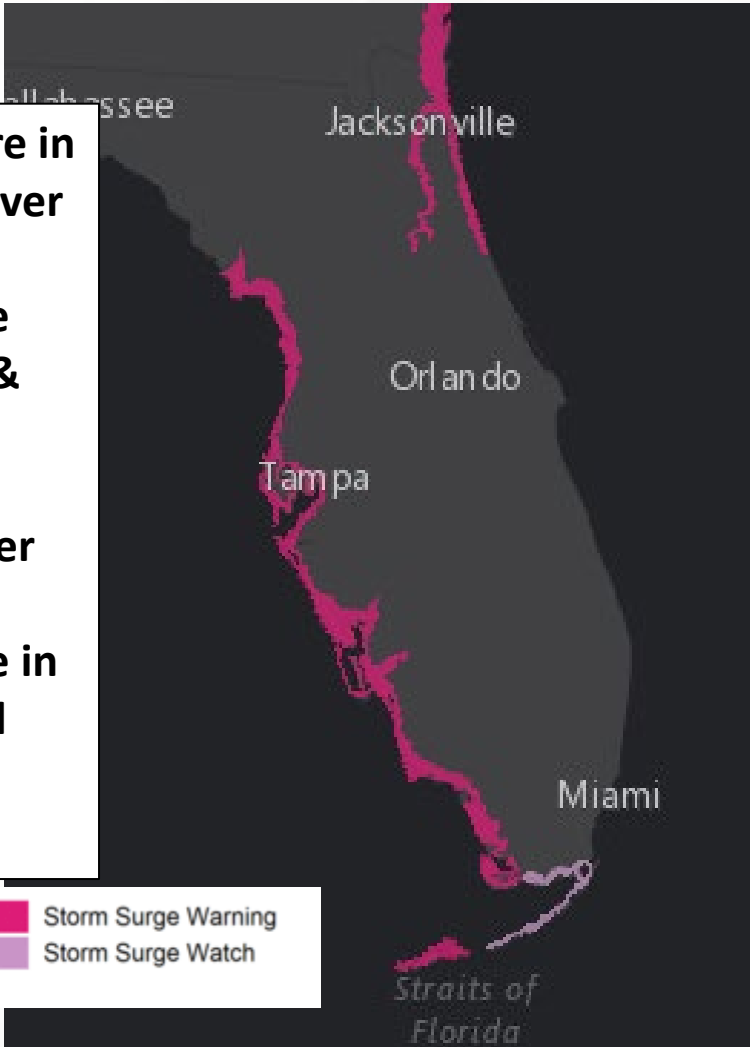
Surge Watches and Warnings

In Effect Until Further Notice



Storm Surge Warnings are in effect from Suwannee River to Flamingo, including Tampa Bay and Charlotte Harbor; the Lower Keys & Dry Tortugas; the Volusia/Flagler line northward; St. Johns River

Storm Surge Watches are in effect for the middle and upper Keys and along Florida Bay.



Hurricane Ian
Wednesday September 28, 2022
11 AM EDT Advisory 24
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.

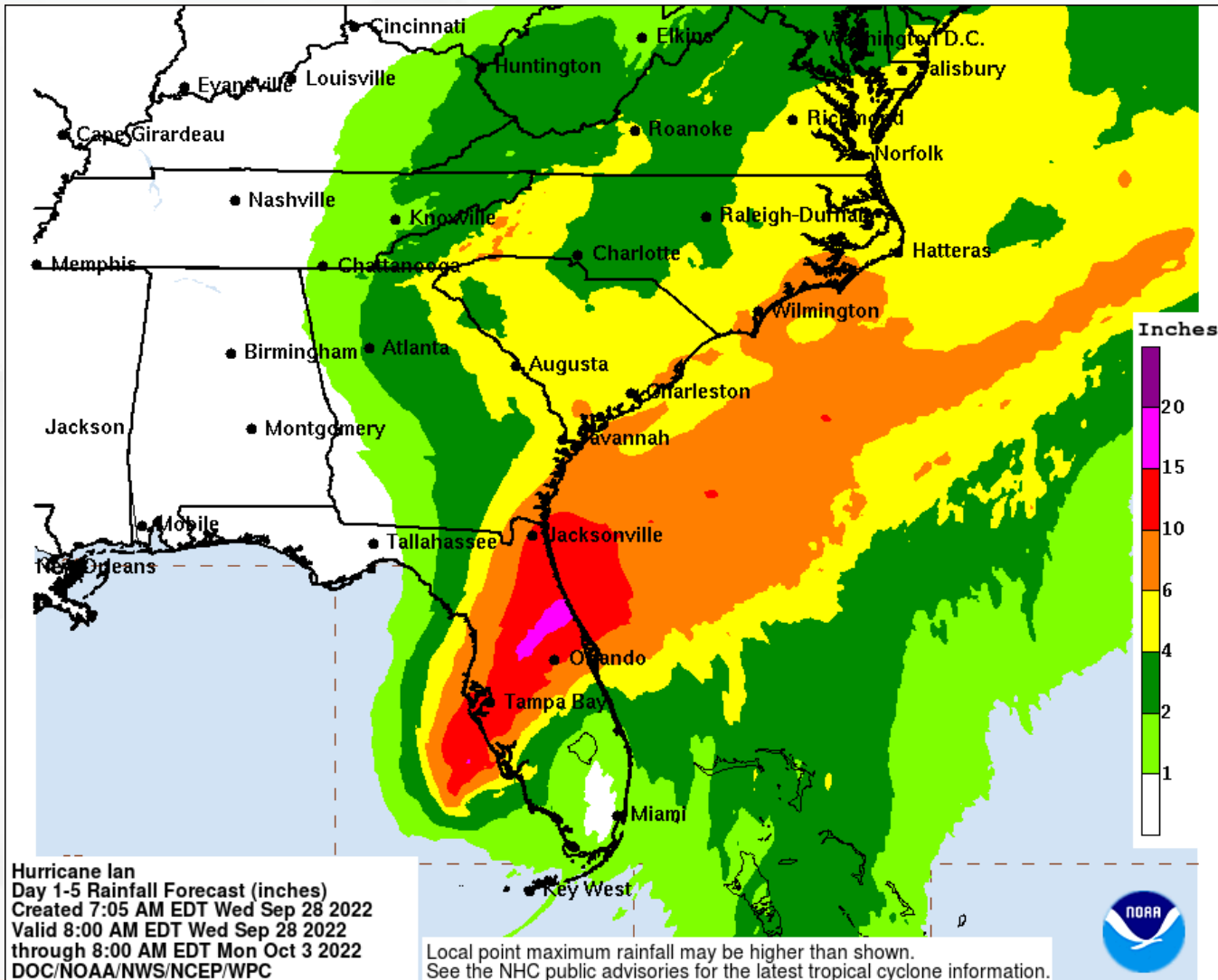


█ Storm Surge Warning
█ Storm Surge Watch



5-Day Forecast Rainfall

From the Weather Prediction Center



Rainfall totals 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.

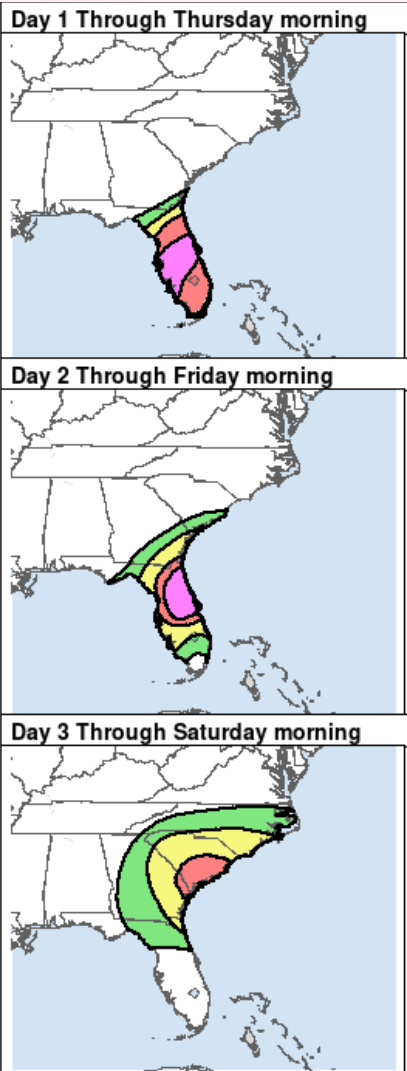
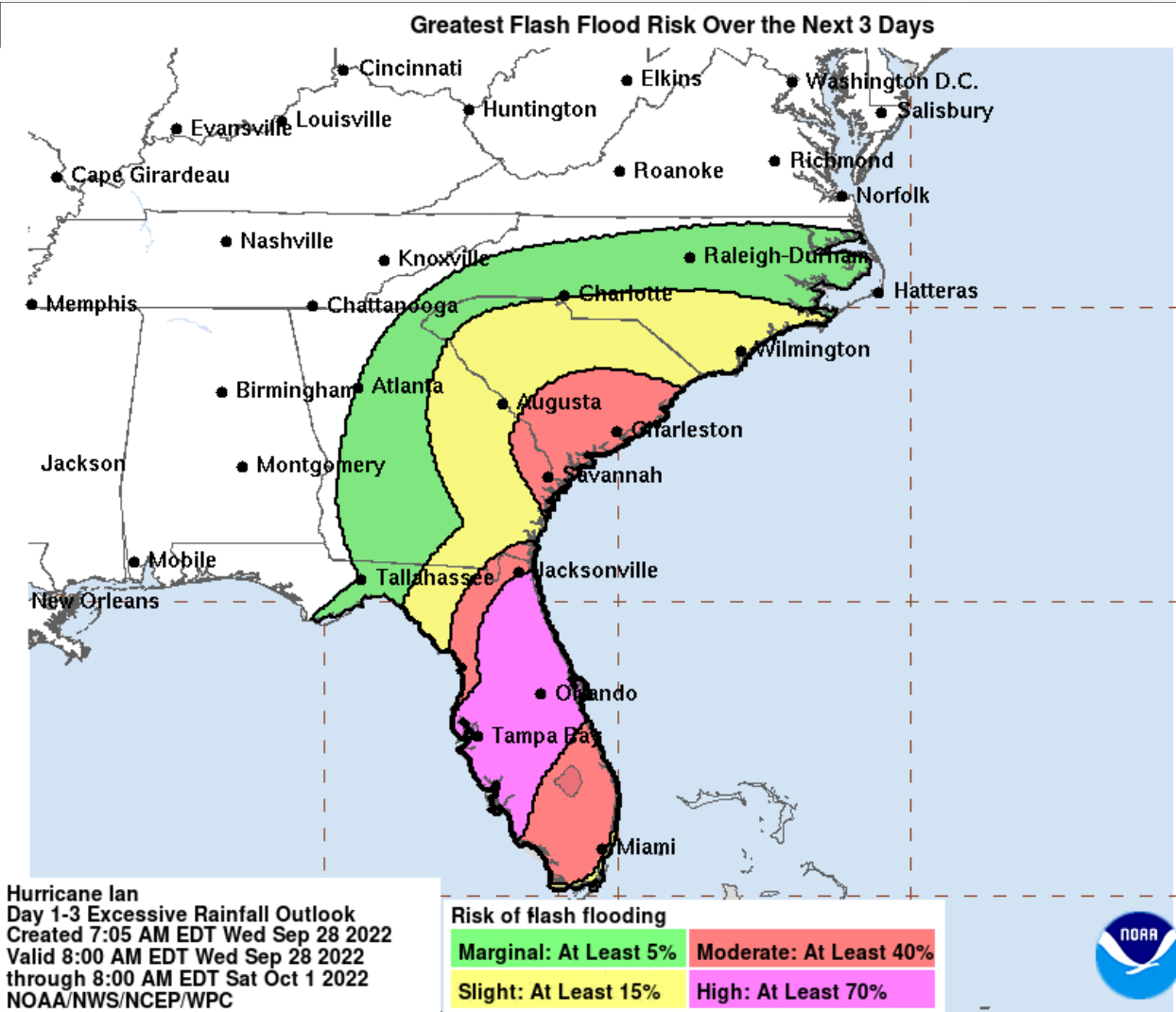


Flash Flood Outlooks

From the Weather Prediction Center

Understanding WPC Excessive Rainfall Risk Categories

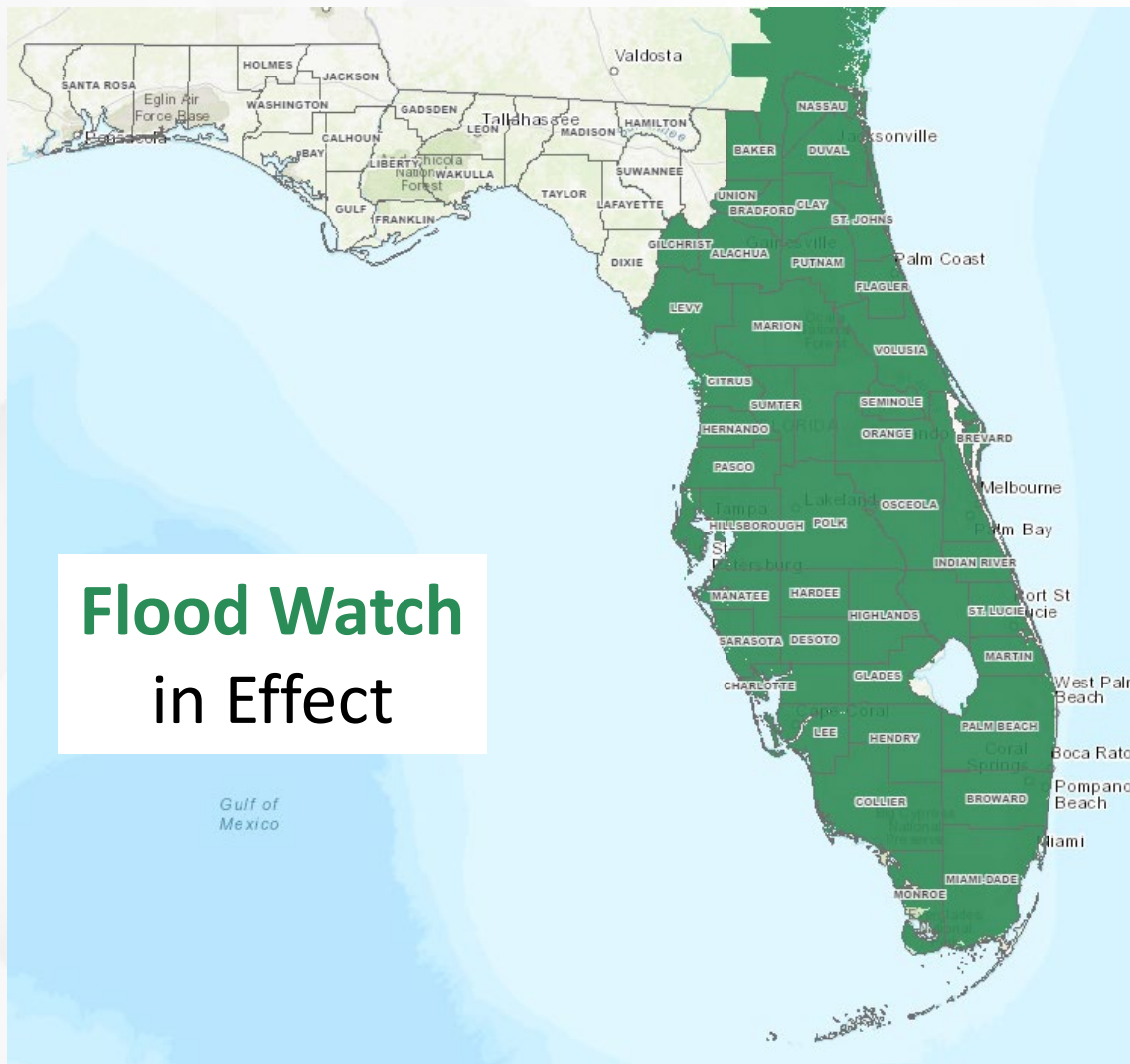
No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid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





Flood Watches in Effect

From the National Weather Service



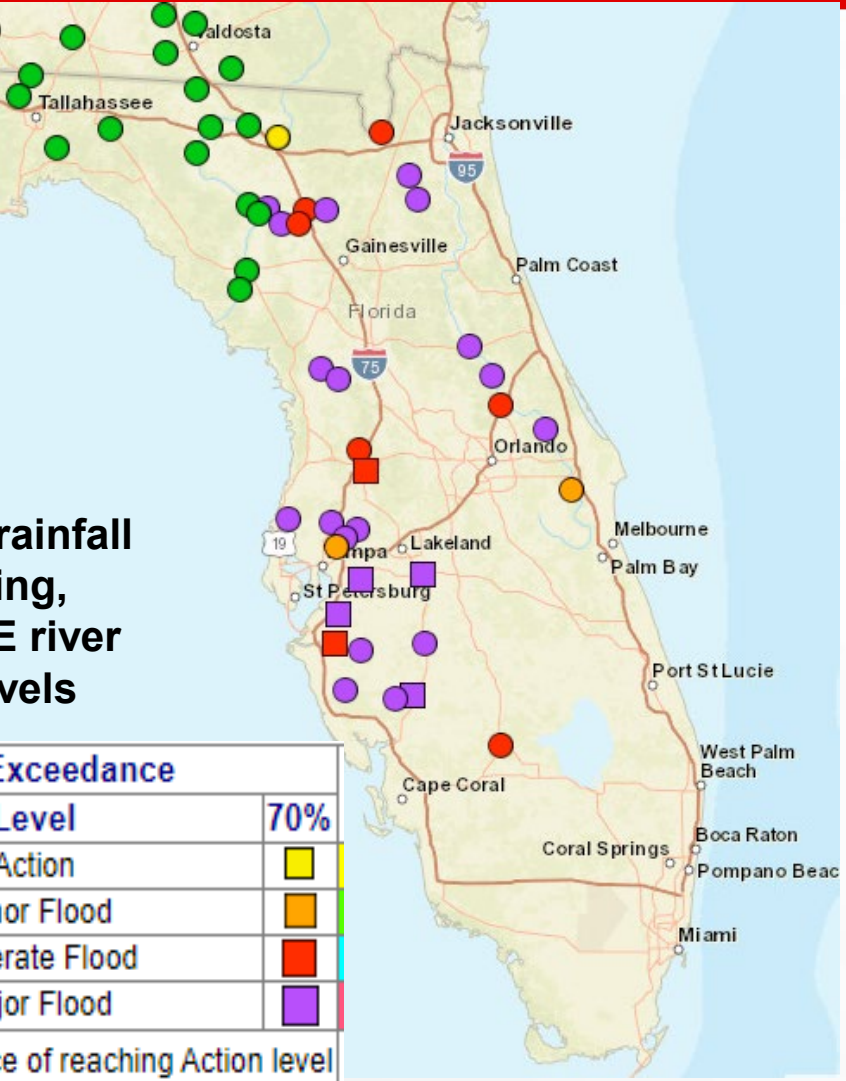
Flood Watches are in effect for the entire Florida Peninsula.

- Florida Keys: in effect until 6:00 AM EDT Wednesday morning (9/28)
- South Florida: in effect until 8:00 AM EDT Thursday morning (9/29)
- Central Florida: in effect until 2:00 AM EDT Friday morning (9/30)
- Northeast Florida: in effect until 2:00 PM EDT Friday afternoon (9/30)



Possible River Flooding

Chance of River Flooding Based on Range of Forecast Rainfall



Based on rainfall modelling,
POSSIBLE river crest levels

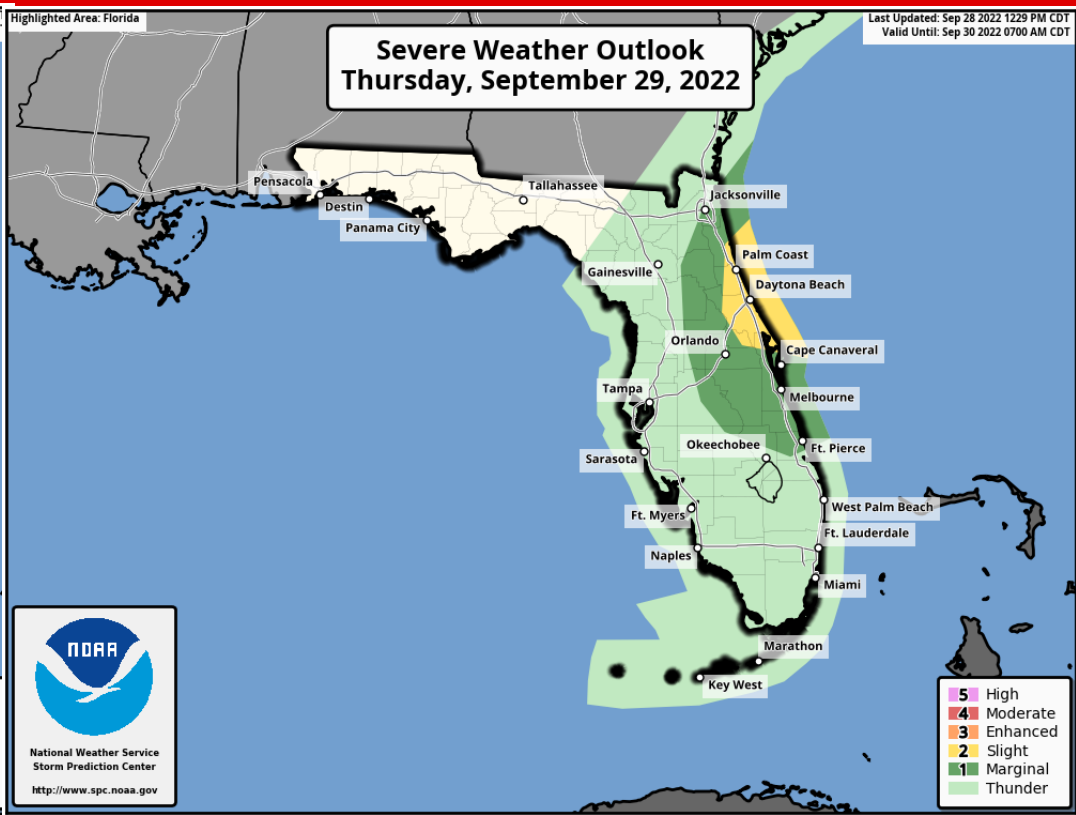
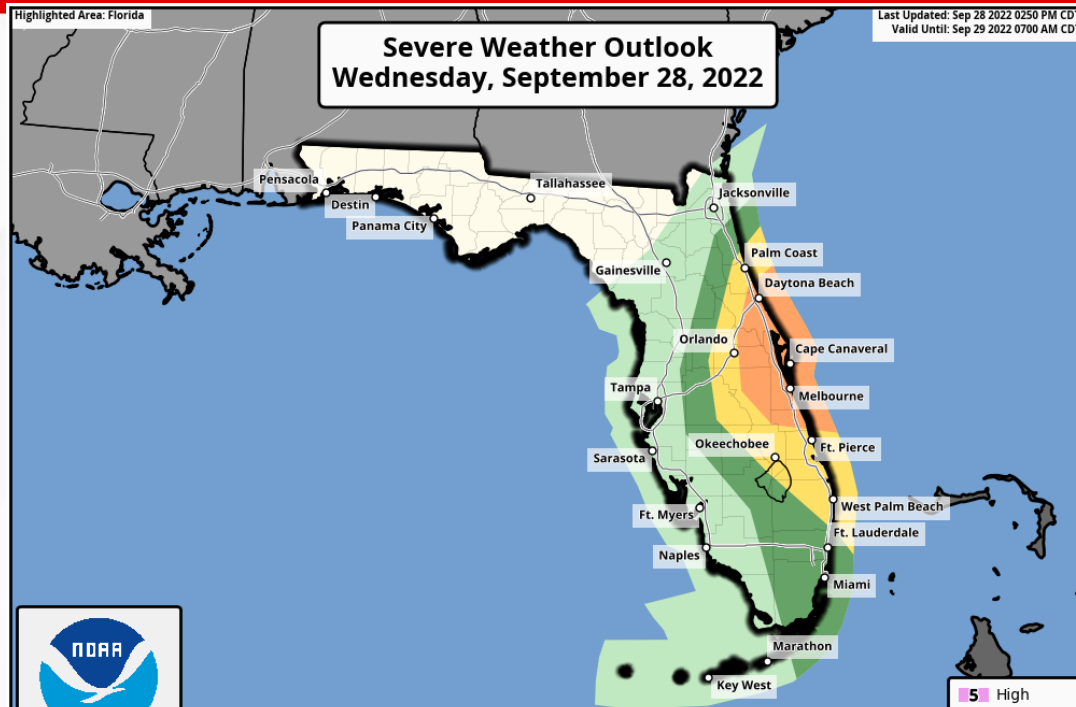
Chance of Exceedance		
30%	Level	70%
	Action	
	Minor Flood	
	Moderate Flood	
	Major Flood	
= less than 30% chance of reaching Action level		

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



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

Rain bands from Ian will continue to produce a tornado risk across the Peninsula, primarily closer to the East Coast.



Summary

Major Hurricane Ian:

- At 3:05pm ET, Ian made landfall as a Category 4 hurricane with maximum sustained winds of 150 mph.
- Ian will continue to weaken as it moves inland across Central Florida and should emerge into the Atlantic as a moderate to strong tropical storm.
- Ian will move northeast over Central Florida through Thursday afternoon, emerge into the Atlantic and turn north Thursday night, and pass near Northeast Florida Thursday night into Friday morning.
- As Ian continues to increase in intensity, the storm will also grow in size. Impacts can and will spread well beyond the center; therefore, it is important to **not focus on the exact forecast track of Ian.**

Florida Outlook:

- A **Hurricane Warning** is in effect for 20 Florida Counties, with a **Hurricane Watch** is in effect for parts of 4 Northeast Florida counties.
- **Tropical Storm Warnings** are in effect for 24 counties, with Tropical Storm Watches in effect for 5 northeastern and North Florida Counties.
- A **Storm Surge Warning** is in effect from Suwannee River to Flamingo, including Tampa Bay and Charlotte Harbor, and for Flagler/Volusia Line northward, including the St. Johns River.
- Devastating storm surge values of 12-18 feet are expected from Englewood to Bonita Beach; 8-12 feet from Bonita Beach to Chokoloskee; 3-6 feet along the Nature Coast and Tampa Bay; and 3-6 feet for Northeast Florida coast (including 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 12-20 inches of rain with localized totals in excess of 30 inches. A **Flood Watch** is in effect for all of the Florida Peninsula.
- Major to record river flooding is expected along many northeast and central FL rivers for days after the rain ends.
- Tornadoes remain possible tonight and Thursday along the East Coast.

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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