



# Tropical Update



5:00 PM EDT

Tuesday, September 27, 2022

## Major Hurricane Ian

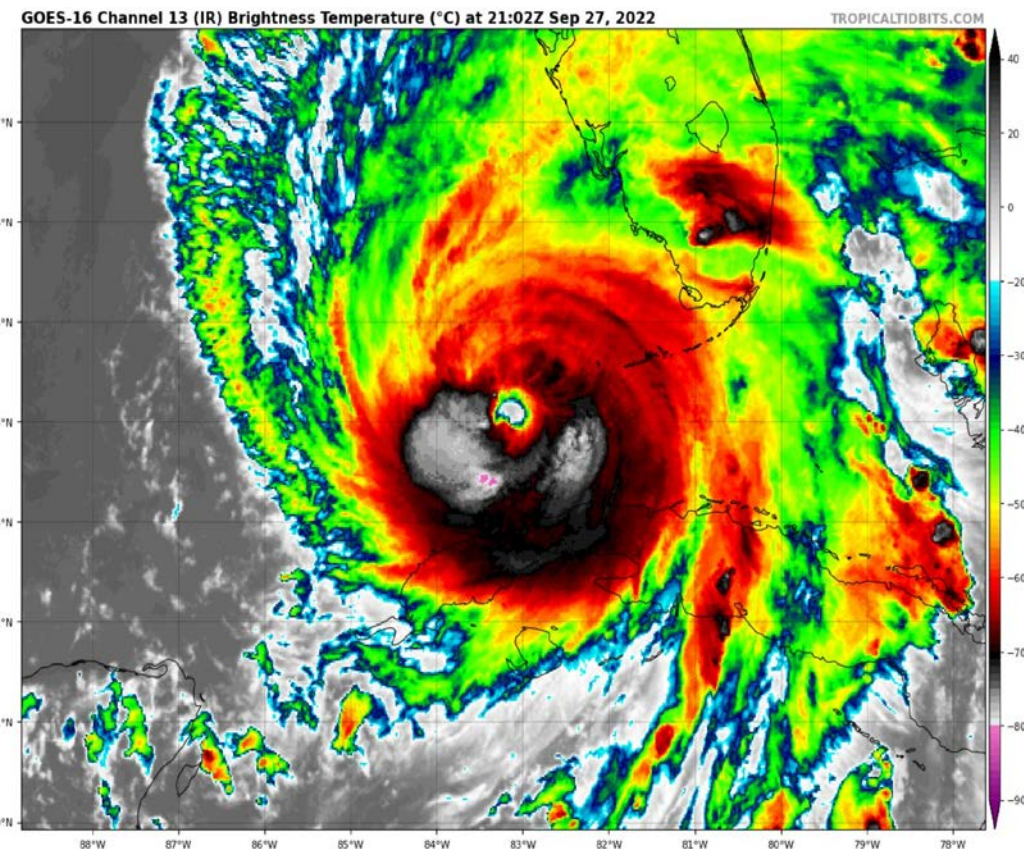
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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



# Major Hurricane Ian

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

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



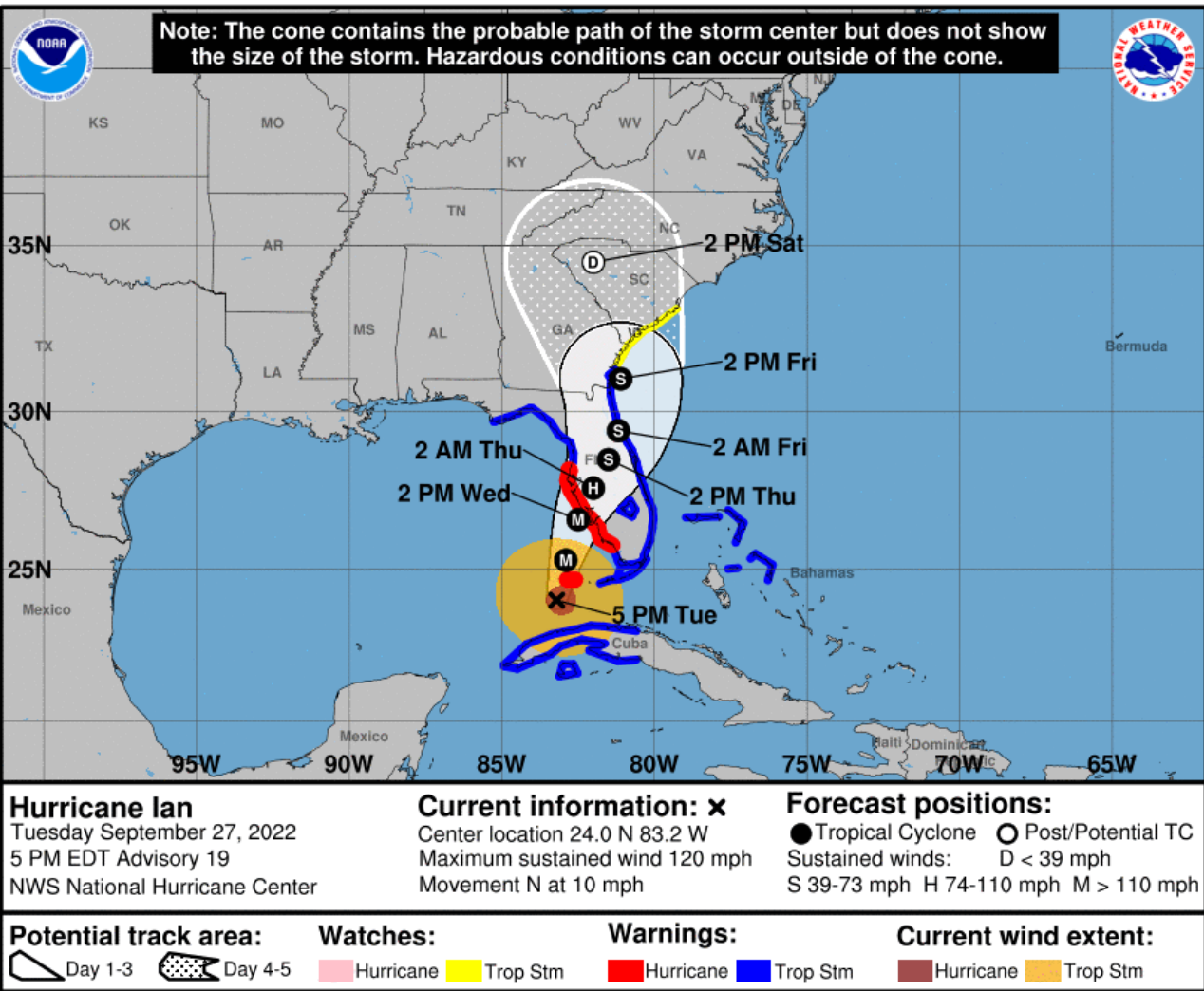
## Overview/Recent Changes:

Ian is projected to make landfall in Southwest Florida as major Category 3 or 4 hurricane Wednesday afternoon or evening. Tropical Storm Warnings and Hurricane Watches have been expanded to additional inland Peninsula counties. Storm Surge Watches and Warnings have also been issued for Northeast Florida and the St. Johns River. There is a high risk of devastating storm surge, damaging winds, and extensive flooding, along with an elevated threat for tornadoes.



# Forecast Cone

## Major Hurricane Ian ([LINK](#))



- **Location:** 230 miles south of Sarasota, FL
- **Maximum Sustained Winds:** 120 mph, Category 3
- **Current Movement:** N at 10 mph
- **FL Watches/Warnings:**
  - **Hurricane Warnings:** West Central Florida
  - **Tropical Storm Warnings:** Lower Keys, far SW FL, Central FL, Northeast FL
  - **Hurricane Watch:** Along the Nature Coast and in parts of southwest Florida.
  - **Tropical Storm Watch:** Much of the eastern half of the Peninsula and the coastal Big Bend

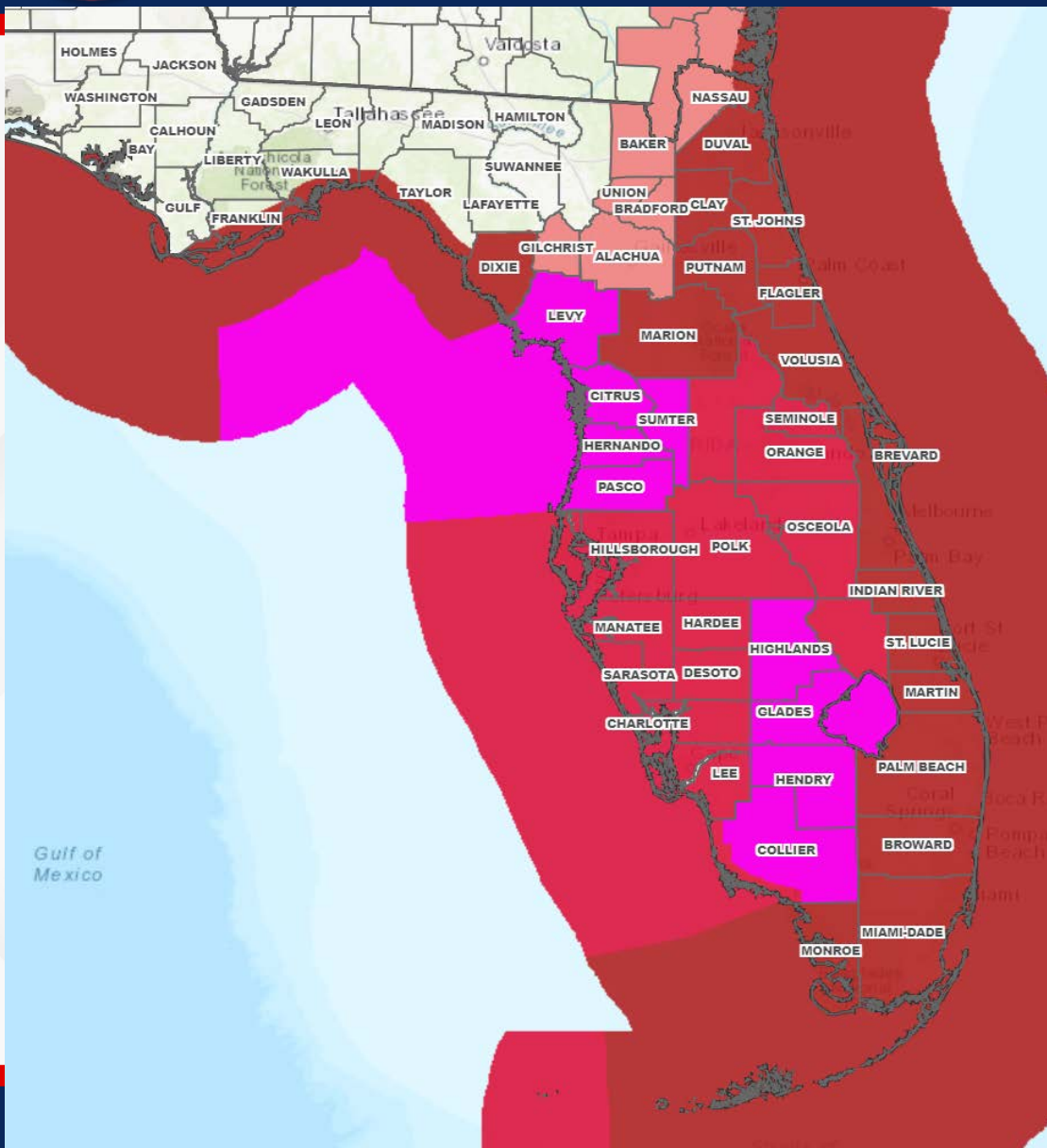
A turn toward the north-northeast with a reduction in forward speed is forecast tonight and Wednesday. On the forecast track, the center of Ian is expected to move over the southeastern Gulf of Mexico today, pass west of the Florida Keys later tonight, and approach the west coast of Florida within the hurricane warning area on Wednesday and Wednesday night.

Hurricane-force winds extend outward up to 40 miles from the center and tropical-storm-force winds extend outward up to 140 miles.





# Active Tropical Watches/Warnings



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

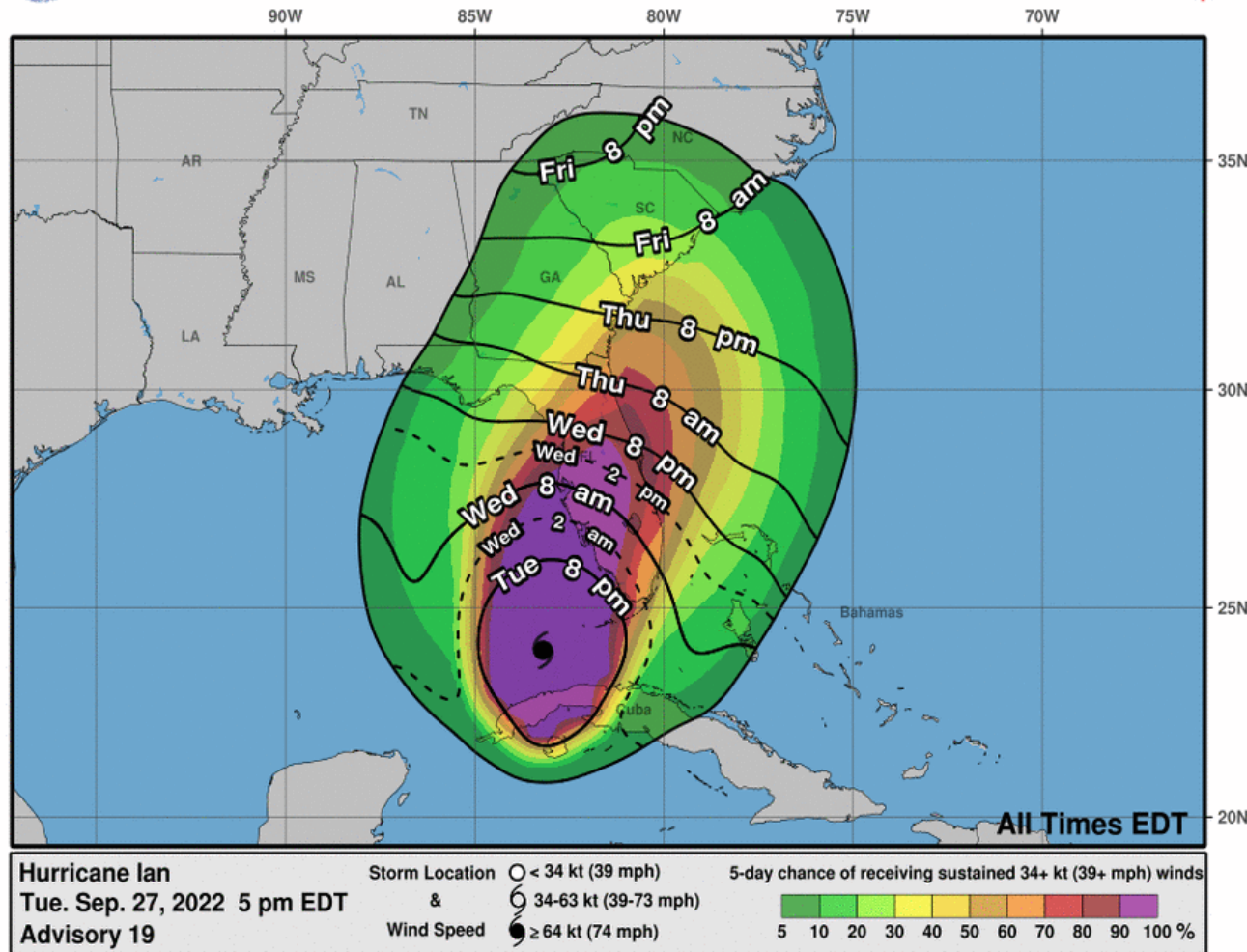


# Tropical Storm-Force Wind Probabilities

Major Hurricane Ian ([LINK](#))



## Most Likely Arrival Time of Tropical-Storm-Force Winds



Fast moving showers and thunderstorms have started to produce tropical storm-force gusts along the Florida Keys today.

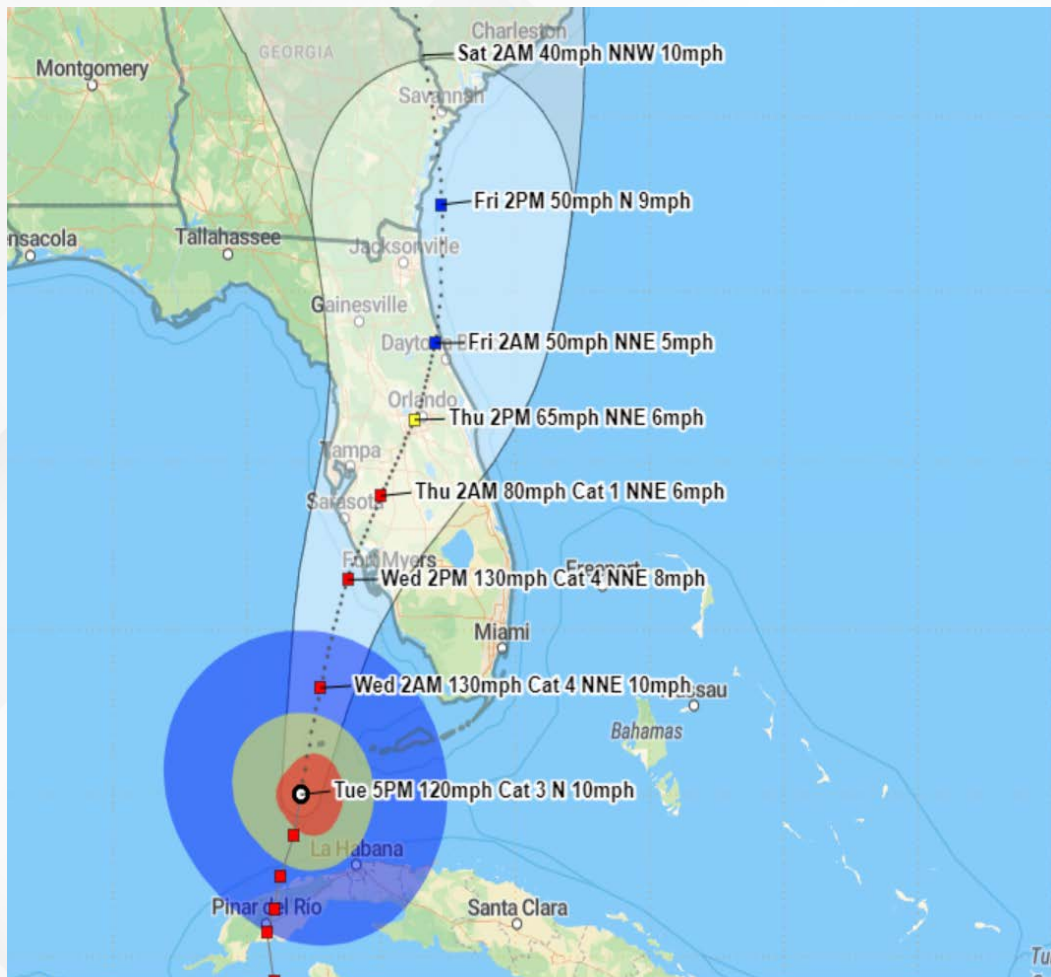
Tropical storm-force winds will continue to spread from south to north over the southern Peninsula tonight into Wednesday morning. Tropical storm-force winds may begin as early as Tuesday night across portions of Central Florida and Wednesday morning across North Florida, but are more likely to begin Wednesday afternoon.





# Key Messages

## From the National Hurricane Center



### HURRICANE IAN - Tuesday, September 27, 2022 5PM EDT Advisory #19

● Center Location: 24.0 N 83.2 W Maximum Sustained Winds: 120 mph (Cat 3) Movement: 10 mph N

Wind Field: ● at current location

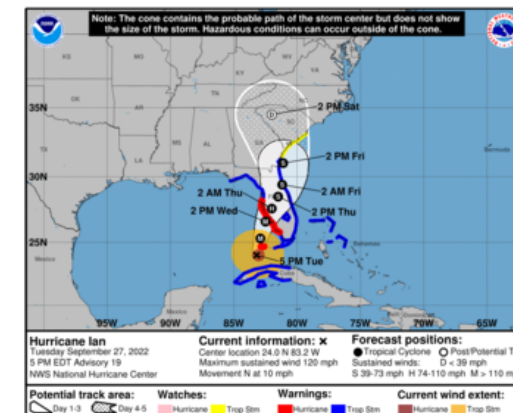
Sustained Wind Speed: ■ tropical storm  $\geq 34$ kt/39mph ■ strong tropical storm  $\geq 50$ kt/58mph ■ hurricane  $\geq 64$ kt/74mph



### Key Messages for Hurricane Ian

#### Advisory 19: 5:00 PM EDT Tue Sep 27, 2022

1. Life-threatening storm surge is increasingly likely along the Florida west coast where a storm surge warning is in effect, with the highest risk from Naples to the Sarasota region. Residents in these areas should listen to advice given by local officials and follow any evacuation orders for your area.
2. Hurricane-force winds are expected in the hurricane warning area in southwest and west-central Florida beginning Wednesday morning with tropical storm conditions expected overnight. Devastating wind damage is expected near the core of Ian. Residents should rush all preparations to completion.
3. Heavy rainfall will affect most of the Florida Peninsula for the next several days, spreading to the rest of the Southeast U.S. by Thursday and Friday, likely causing flash, urban, and small stream flooding. Considerable flooding is expected with widespread, prolonged moderate to major river flooding expected across central Florida.



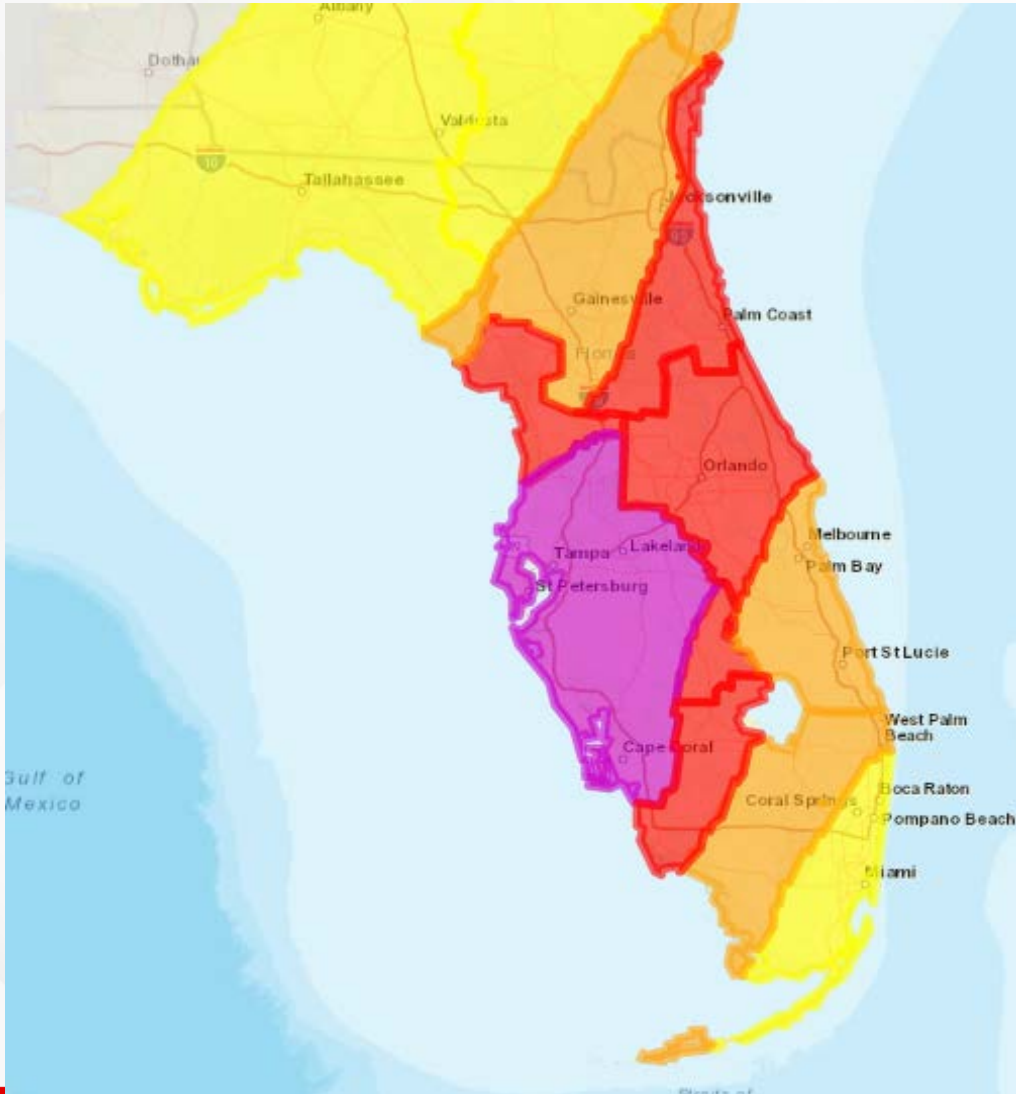
For more information go to [hurricanes.gov](https://hurricanes.gov)

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# Damaging Wind Threat Overview

## Major Hurricane Ian



The greatest wind threat is mainly along the West Florida coastline, where Ian makes its closest approach prior to landfall. The potential for stronger, more damaging wind impacts have expanded inland over the western Peninsula.

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

Click on “Threats and Impacts” Tab

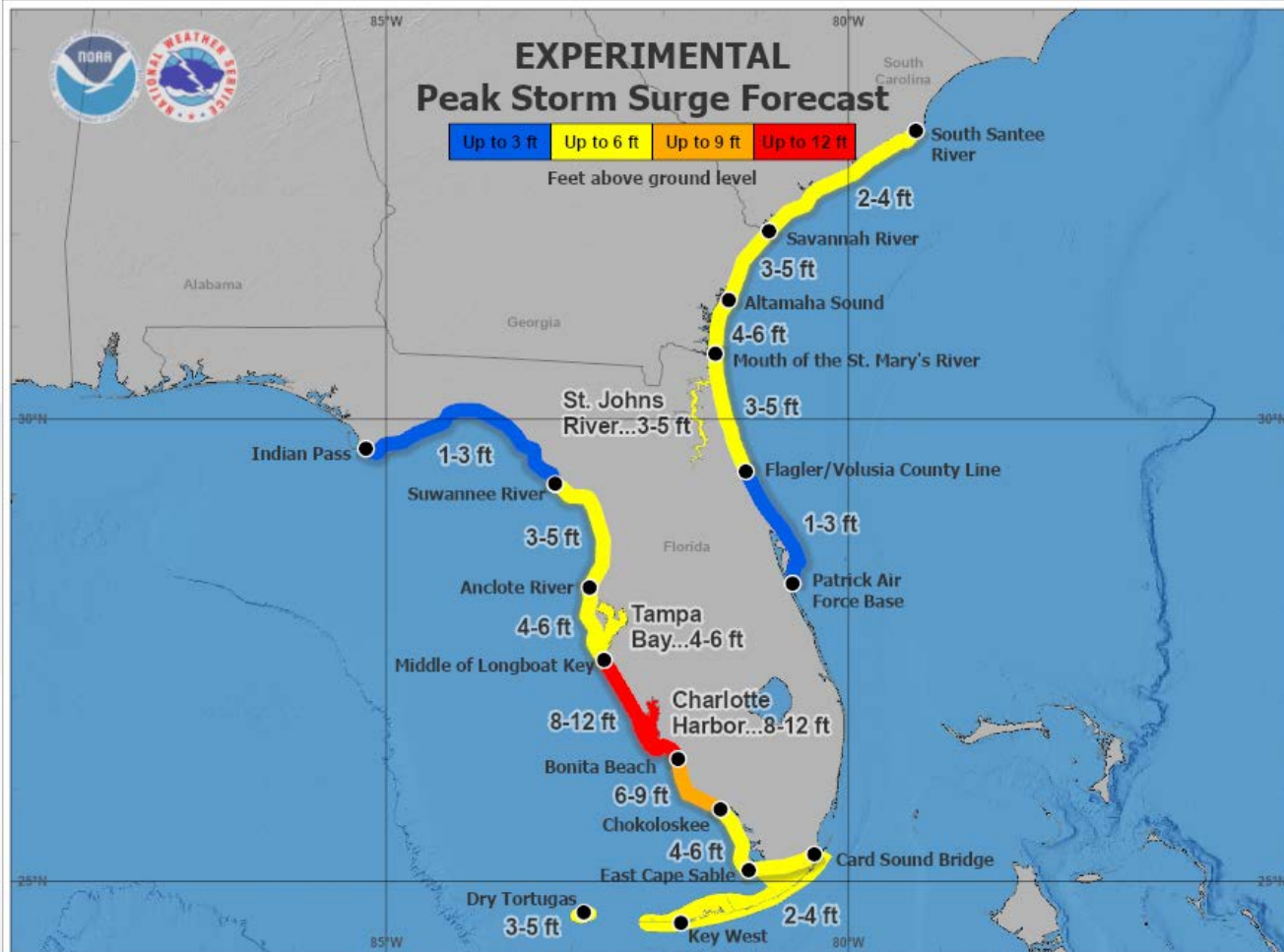
Wind Threat
Potential for wind greater than 110 mph
Potential for wind 74 to 110 mph
Potential for wind 58 to 73 mph
Potential for wind 39 to 57 mph
Wind less than 39 mph





# Surge Watches and Warnings

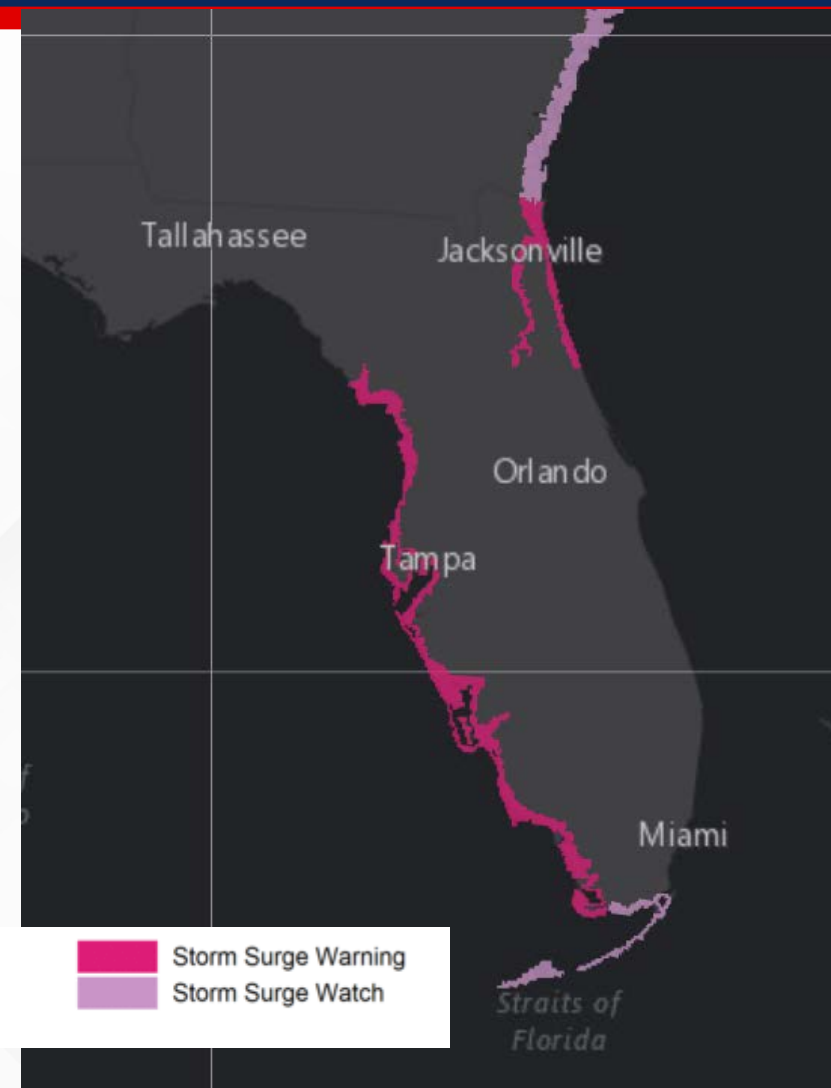
## In Effect Until Further Notice



Hurricane Ian  
Tuesday September 27, 2022  
05 PM EDT Advisory 19  
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.

0 50 100mi



Storm Surge Warning  
Storm Surge Watch

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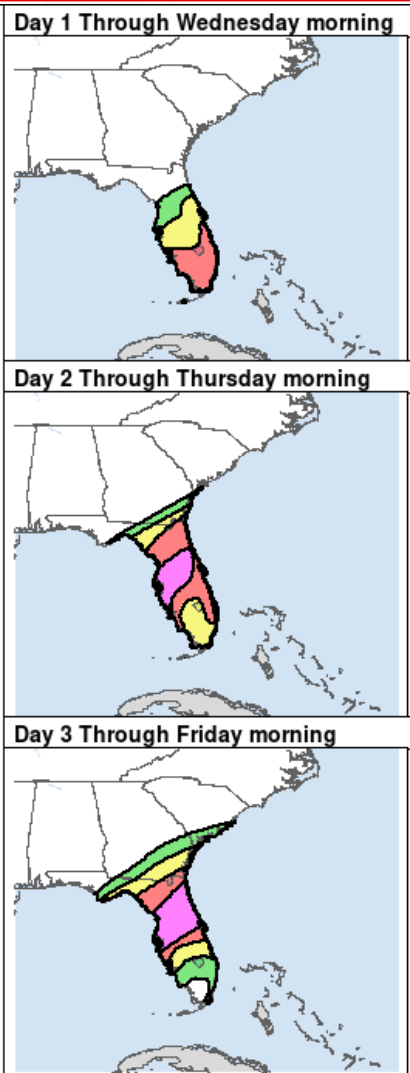
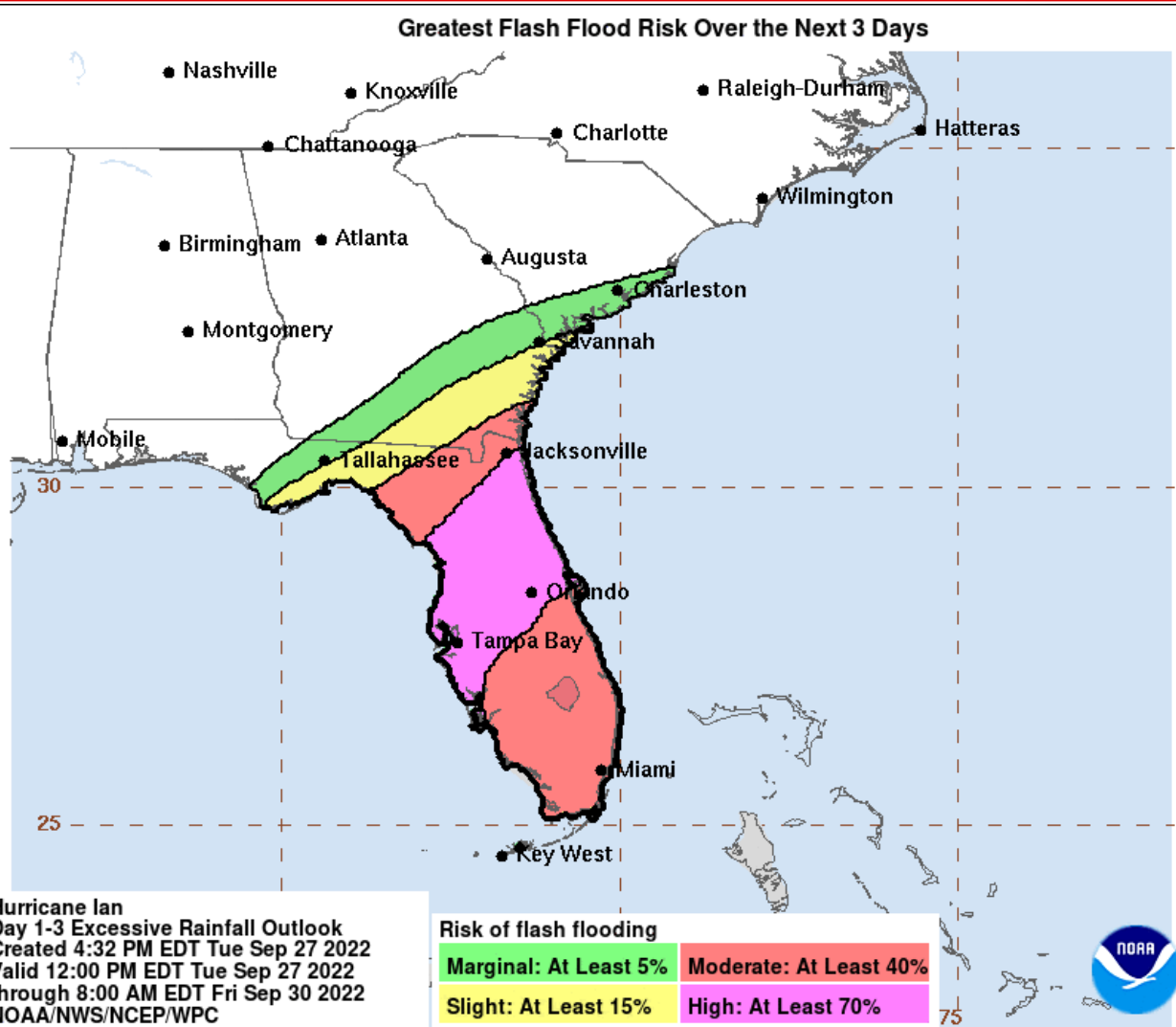


# Flash Flood Outlooks

## From the Weather Prediction Center

### Understanding WPC Excessive Rainfall Risk Categories

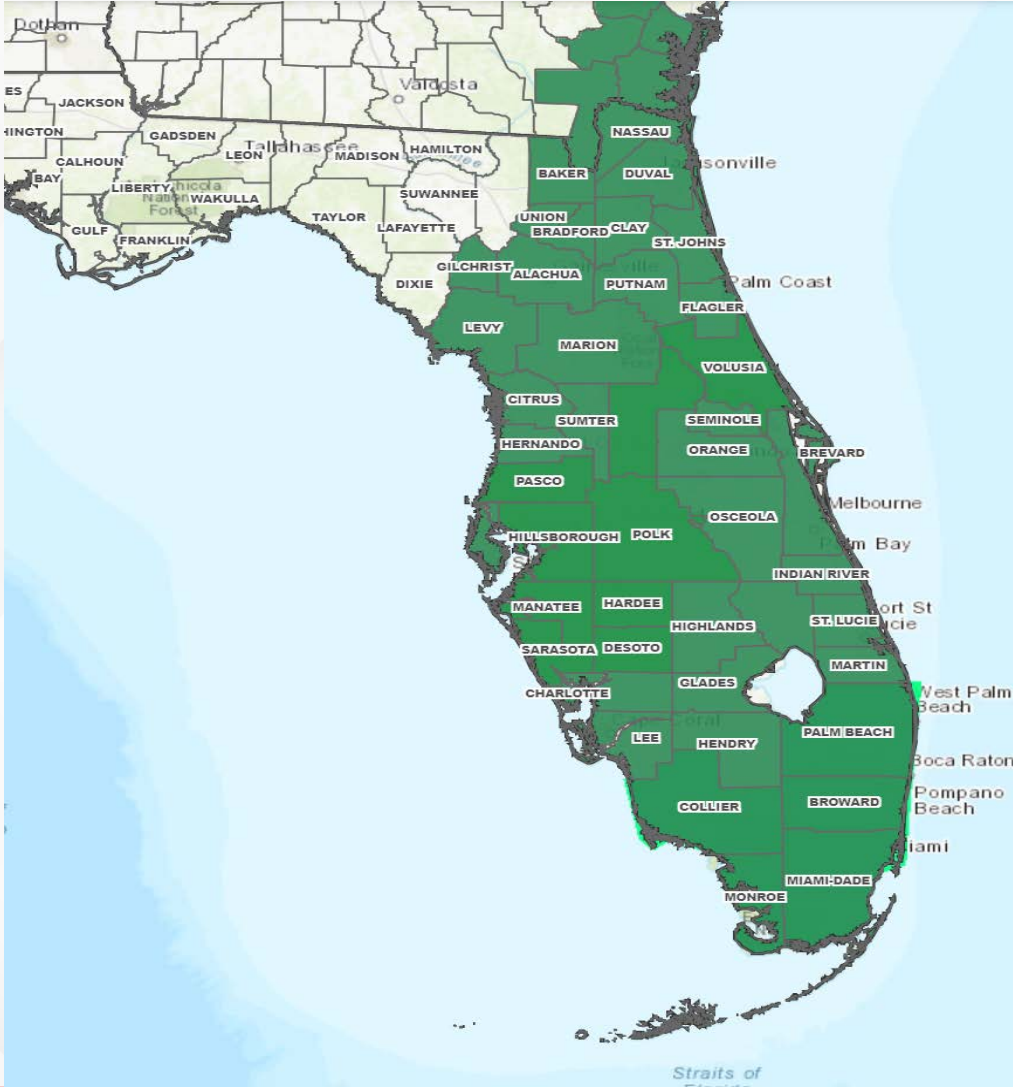
No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid 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.
<a href="http://www.wpc.ncep.noaa.gov">www.wpc.ncep.noaa.gov</a> @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 entire Florida Peninsula.



# Current River Observations

As of Tuesday Afternoon



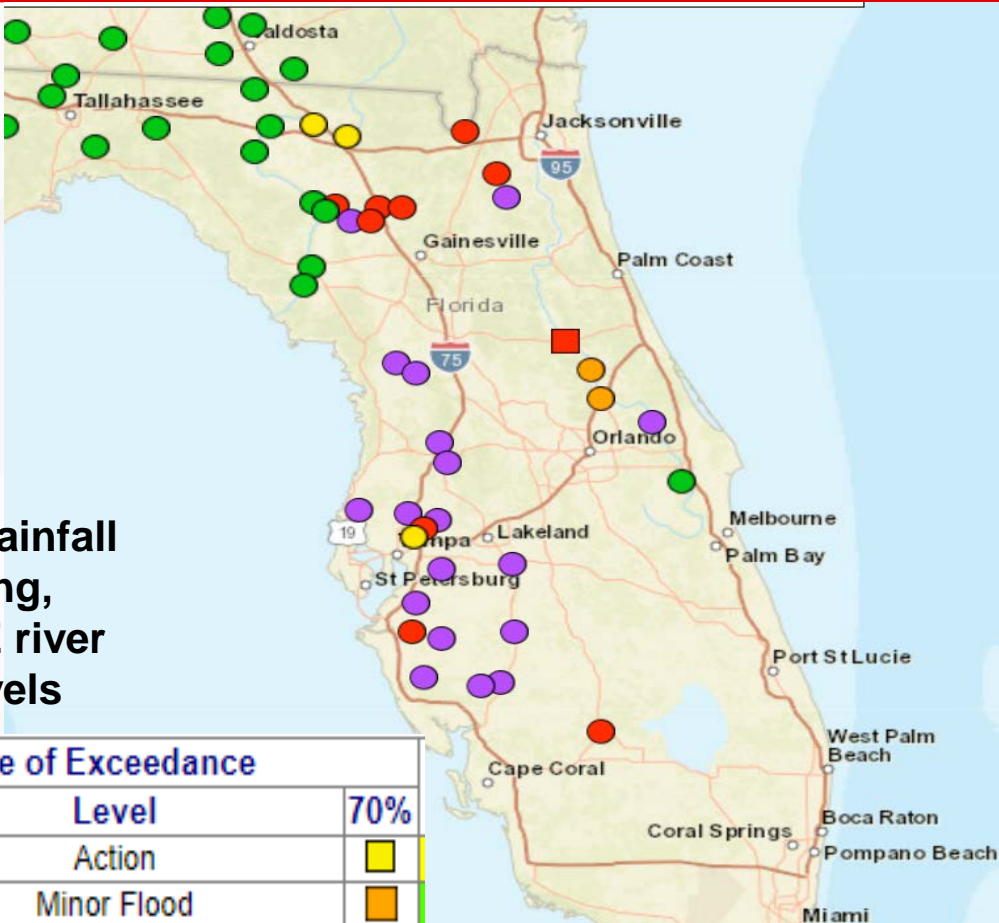
**Minor riverine flooding** continues on the Peace River, as well as Horse Creek and Myakka River in West Central Florida. Minor flooding is also still occurring on the St. Johns River at Astor as well as the Ocklawaha River in Northeast Florida. While these rivers are receding, the combination of additional heavy rainfall and wet antecedent conditions would leave these areas more susceptible for flooding.



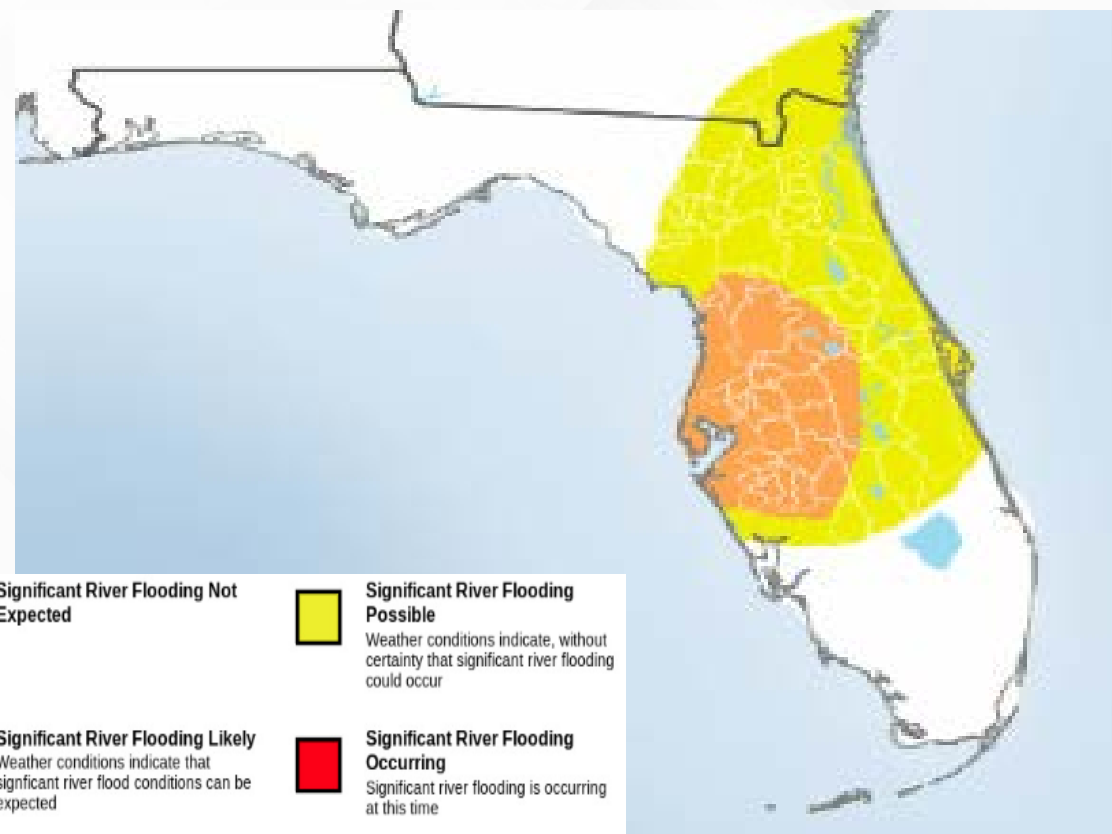


# Possible River Flooding

## Chance of River Flooding Based on Range of Forecast Rainfall



There is the potential for significant and major river flooding, particularly in the central and northern Florida Peninsula basins where some rivers are already near bank full or above flood stage.



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# 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

Outer rain bands from Ian could result in isolated tornadoes across the Keys tonight, with an increased risk across the Keys and Southwest Florida Tuesday. The risk will move northward into Central and North Florida on Wednesday and Thursday.

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- BROWARD
- CHARLOTTE
- COLLIER
- DESOTO
- GLADES
- HENDRY
- HIGHLANDS
- INDIAN RIVER
- LEE
- MARTIN
- MIAMI-DADE
- MONROE
- OKEECHOBEE
- PALM BEACH
- ST. LUCIE





# Summary

## Major Hurricane Ian:

- As of 5 PM EDT Tuesday, Ian was located in the southeastern Gulf of Mexico about 230 miles S of Sarasota, Florida, and moving N around 10 mph.
- Ian will approach the southwest coast of Florida on Wednesday and Wednesday night, however, impacts could will continue to spread northward from the southern Peninsula through the remainder of the week.
- As Ian continues to increase in intensity, the storm will also grow in size. Impacts can and will spread well beyond the center. Due to the slow movement of the storm, wind impacts could last as long as 24 hours. Flooding could last several days to weeks.

## Florida Outlook:

- A **Hurricane Warning** is in effect for 15 Florida Counties, with a **Hurricane Watch** is in effect for 9 additional western Peninsula counties.
- Tropical Storm Warnings** are in effect for 30 Counties, with Tropical Storm Watches in effect for 6 Northeast Florida Counties.
- A **Storm Surge Warning** is in effect from Suwannee River southward to Flamingo, including Tampa Bay, as well as from the Flagler/Volusia Line to the mouth of the St. Mary's River. A Surge Warning is also in effect along the St. Johns River.
- Devastating storm surge values of 6-12 feet are expected in southwest Florida south of Tampa Bay; 4-6 in Tampa Bay, and 3-5 feet along the Nature Coast and the Northeast Florida coast (including the St. Johns River).
- Tropical storm-force winds may arrive this evening in the Keys and coastal Southwest Florida. Tropical storm-force winds may then spread from south to north along portions of the Peninsula Wednesday and could arrive in the Northeast Florida by Thursday. Hurricane conditions could arrive in West Central Florida Wednesday afternoon.
- Rainfall will be a major and potentially catastrophic hazard with this storm. While most of the Peninsula will receive 5-10" of rain with isolated higher amounts up to 14" possible, some areas in West Central Florida near the track of Ian could experience 12-16" of rain with localized totals of 24-30" are possible. Heavy rainfall of 5-12" is also possible in the Florida Big Bend and Northeast Florida, but these totals will depend on the ultimate track of Ian. 4-6" of rain with locally higher amounts up to 8" are forecast for South Florida and the Keys. A **Flood Watch** is in effect for 44 counties in the Florida Peninsula.
- Isolated tornadoes occurred in the Keys overnight, and the continued risk for tornadoes exists today for Central and South Florida areas south of I-4. A **Tornado Watch** has been issues until 5am for portions of Central and South Florida.

The next briefing packet will be issued following the 11:00 PM Advisory. For the latest information, please visit the [National Hurricane Center website](#).



# Tropical Update

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