



# Tropical Update



12:00 PM EDT

Monday, September 26, 2022

## Hurricane Ian

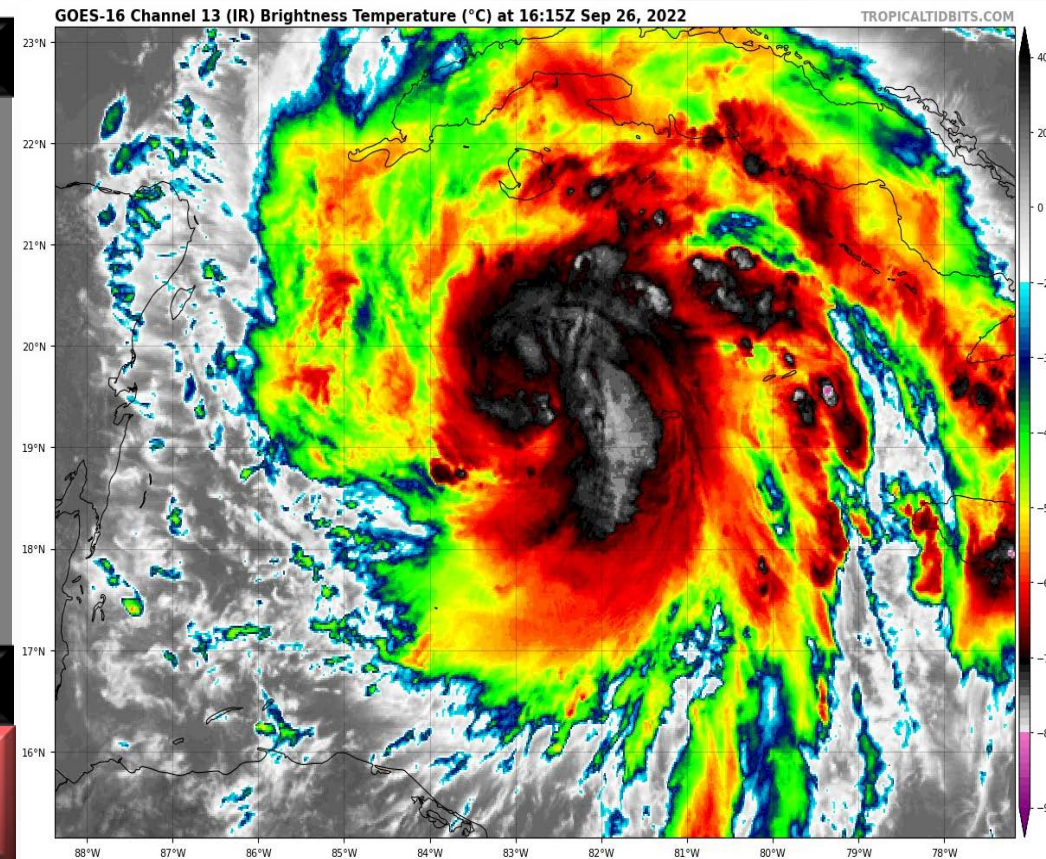
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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



# Hurricane Ian

11 AM ET Monday: Florida Threats & Changes Since Last Packet

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



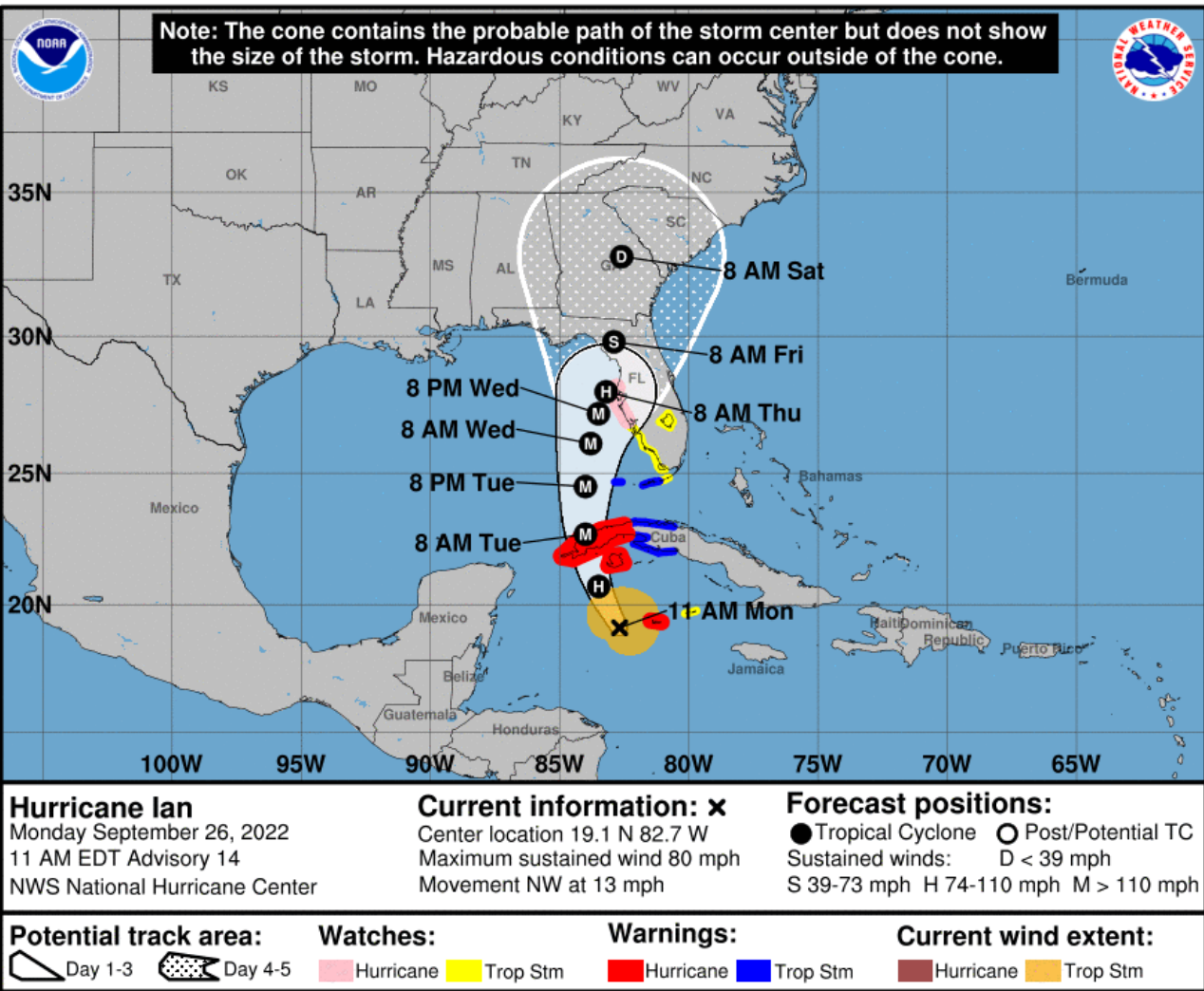
## Overview/Recent Changes:

Ian was upgraded to a Category 1 hurricane. Tropical Storm Warnings and Hurricane Watches have been issued for the Lower Florida Keys and Southwest Florida Coast near and south of Tampa Bay. Additional watches and warnings will be issued today for other portions of the Florida Gulf Coast.



# Forecast Cone

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



- **Location:** 100 miles west of Grand Cayman Island; 380 miles south of Key West, Florida
- **Maximum Sustained Winds:** 80 mph, Category 1
- **Current Movement:** NW at 13 mph
- **FL Watches/Warnings:**
  - **Tropical Storm Warnings:** Lower Florida Keys from Seven Mile Bridge westward to Key West, Dry Tortugas
  - **Tropical Storm Watch:** Englewood southward to Flamingo, Florida Keys from Seven Mile Bridge to Channel 5 Bridge, Lake Okeechobee
  - **Hurricane Watch:** Englewood to the Anclote River, including Tampa Bay

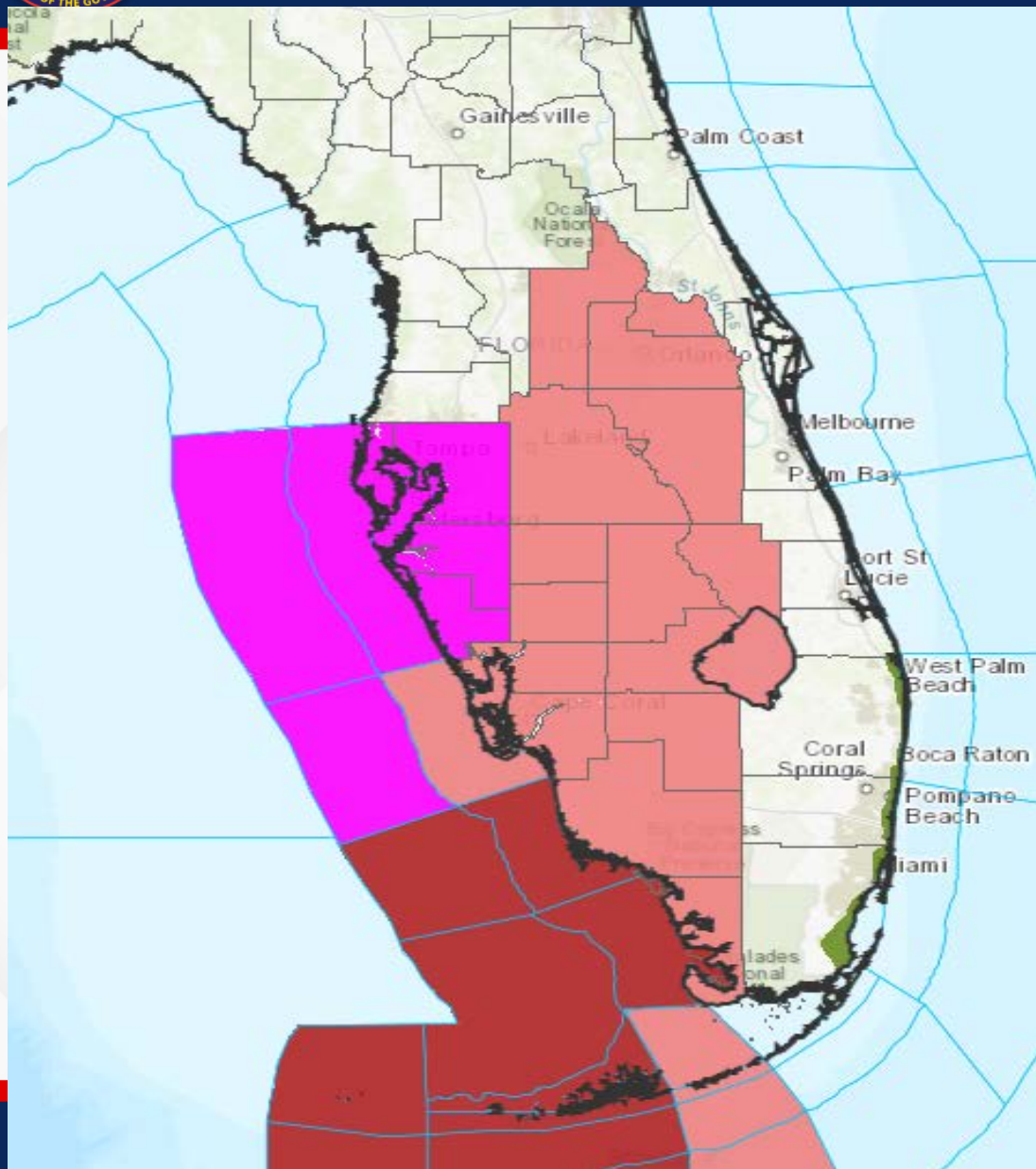
A turn toward the north-northwest is expected today followed by a northward motion on Tuesday with a slightly slower forward speed. A turn toward the north-northeast is forecast on Tuesday night or early Wednesday. On the forecast track, the center of Ian is expected to pass near or over western Cuba tonight and early Tuesday. Ian will then pass west of the Florida Keys late Tuesday, and approach the west coast of Florida on Wednesday. Rapid strengthening is expected during the next day or so, and Ian is forecast to become a major hurricane tonight when it is near western Cuba.

Hurricane-force winds extend outward up to 25 miles from the center and tropical-storm-force winds extend outward up to 115 miles.





# Active Tropical Watches/Warnings



- **Hurricane Watch:**
  - Pinellas, Hillsborough, Manatee, Sarasota
- **Tropical Storm Warning:**
  - Lower Keys
- **Tropical Storm Watch:**
  - Collier, Mainland Monroe, Middle Keys, Glades, Hendry, Charlotte, Lee, Hardee, Desoto, Highlands, Okeechobee, Polk, Osceola, Seminole, Orange, Lake

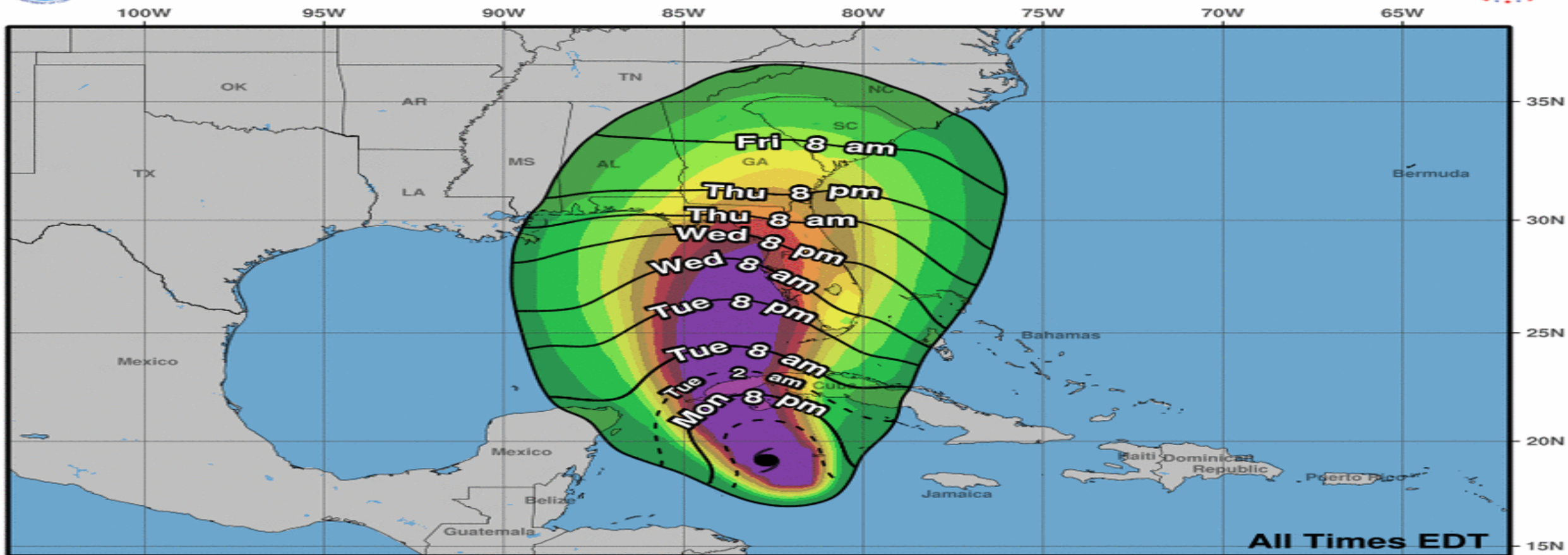


# Tropical Storm-Force Wind Probabilities

Hurricane Ian ([LINK](#))



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



**Hurricane Ian**  
**Mon. Sep. 26, 2022 11 am EDT**  
**Advisory 14**

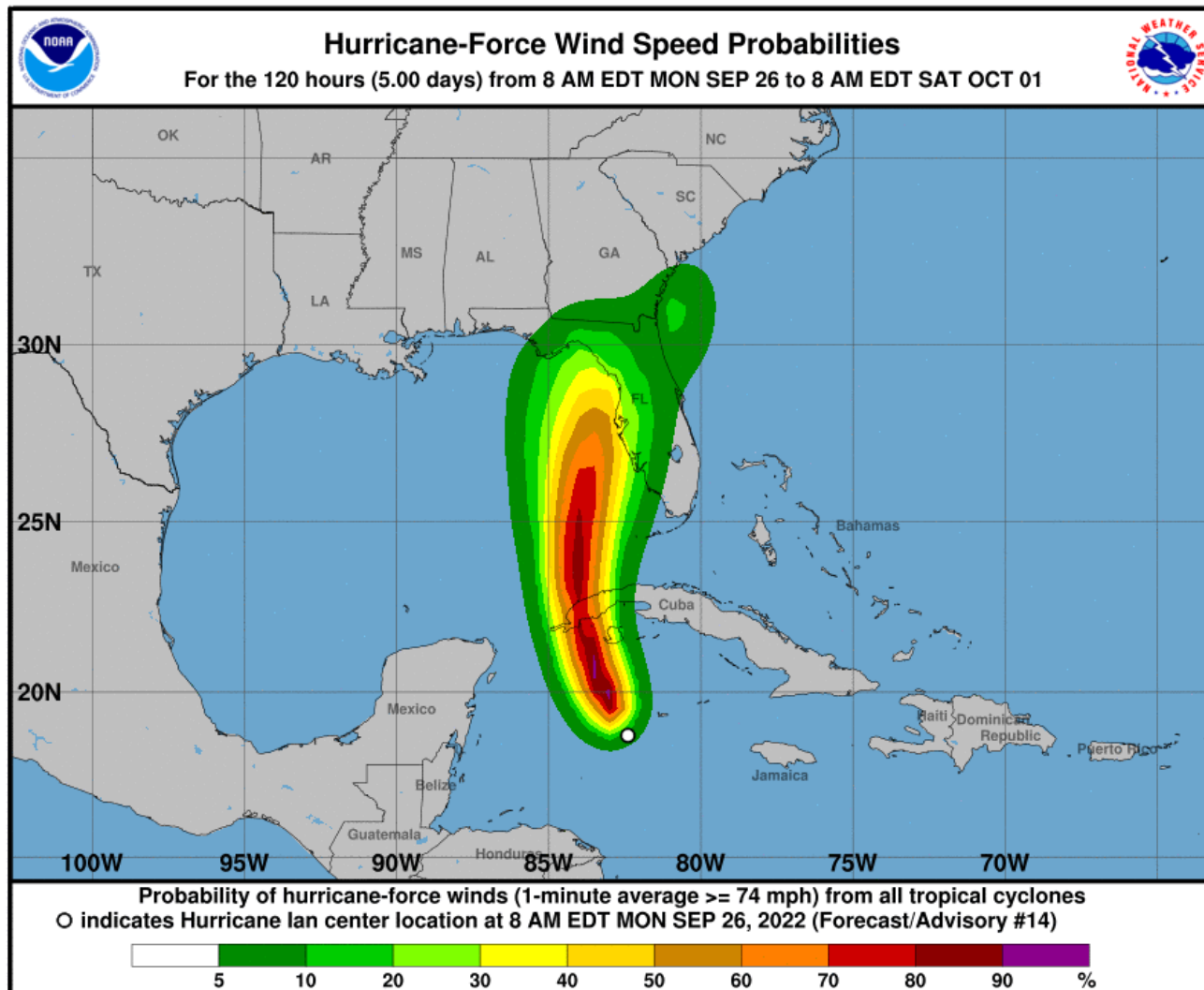
**Storm Location & Wind Speed**  
○ < 34 kt (39 mph)  
○ 34-63 kt (39-73 mph)  
● ≥ 64 kt (74 mph)

**5-day chance of receiving sustained 34+ kt (39+ mph) winds**  
5 10 20 30 40 50 60 70 80 90 100 %



# Hurricane-Force Wind Probabilities

Hurricane Ian ([LINK](#))



There is now a 15-40% chance of hurricane-force winds affecting the West Coast of Florida and coastal Big Bend.

City	Probability
Naples	15%
Tampa	36%
Cedar Key	30%
Tallahassee	8%
Apalachicola	12%
Orlando	8%





# Key Messages

## From the National Hurricane Center



### Key Messages for Hurricane Ian

Advisory 14: 11:00 AM EDT Mon Sep 26, 2022



1. Life-threatening storm surge, hurricane-force winds, flash floods and possible mudslides are expected in portions of western Cuba beginning this evening and continuing into Tuesday. Devastating wind damage is possible where the core of Ian moves across western Cuba. Efforts to protect life and property should be rushed to completion.

2. Life-threatening storm surge is possible along much of the Florida west coast, with the highest risk from Fort Myers to the Tampa Bay region. Residents in these areas should listen to advice given by local officials.

3. Hurricane-force winds are possible in the hurricane watch area in west-central Florida beginning Wednesday morning with tropical storm conditions possible by late Tuesday. Residents in this area should ensure that they have their hurricane plan in place.

4. Heavy rainfall will increase across the Florida Keys and south Florida Tuesday, spreading to central and northern Florida Wednesday and Thursday, potentially causing flash, urban and small stream flooding. Significant prolonged river flooding is likely across central Florida.

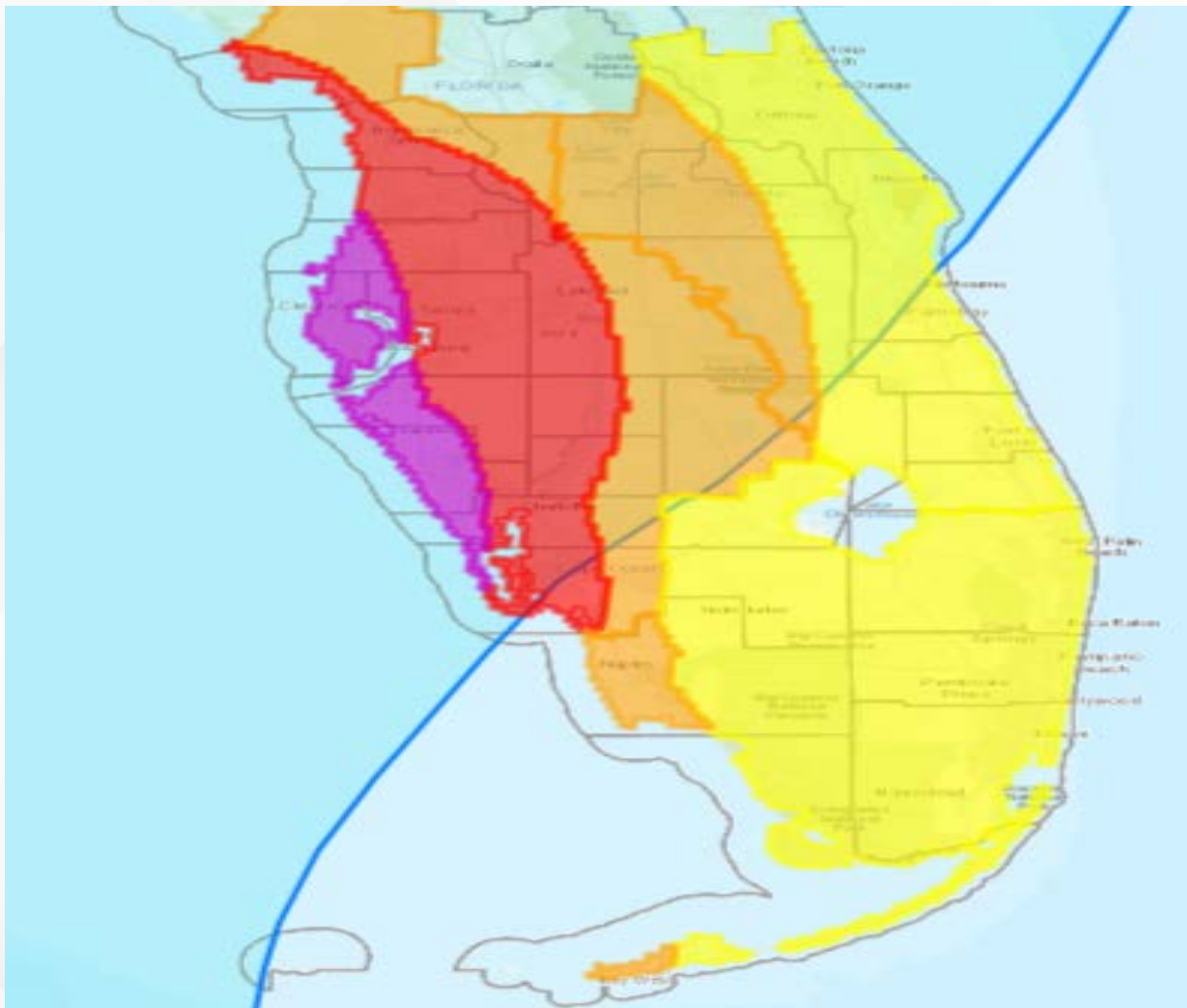


For more information go to [hurricanes.gov](https://hurricanes.gov)



# Damaging Wind Threat Overview

## Tropical Storm Ian



The greatest wind threat is mainly along the West Florida coastline, where Ian makes its closest approach prior to landfall.

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

Click on “Threats and Impacts” Tab

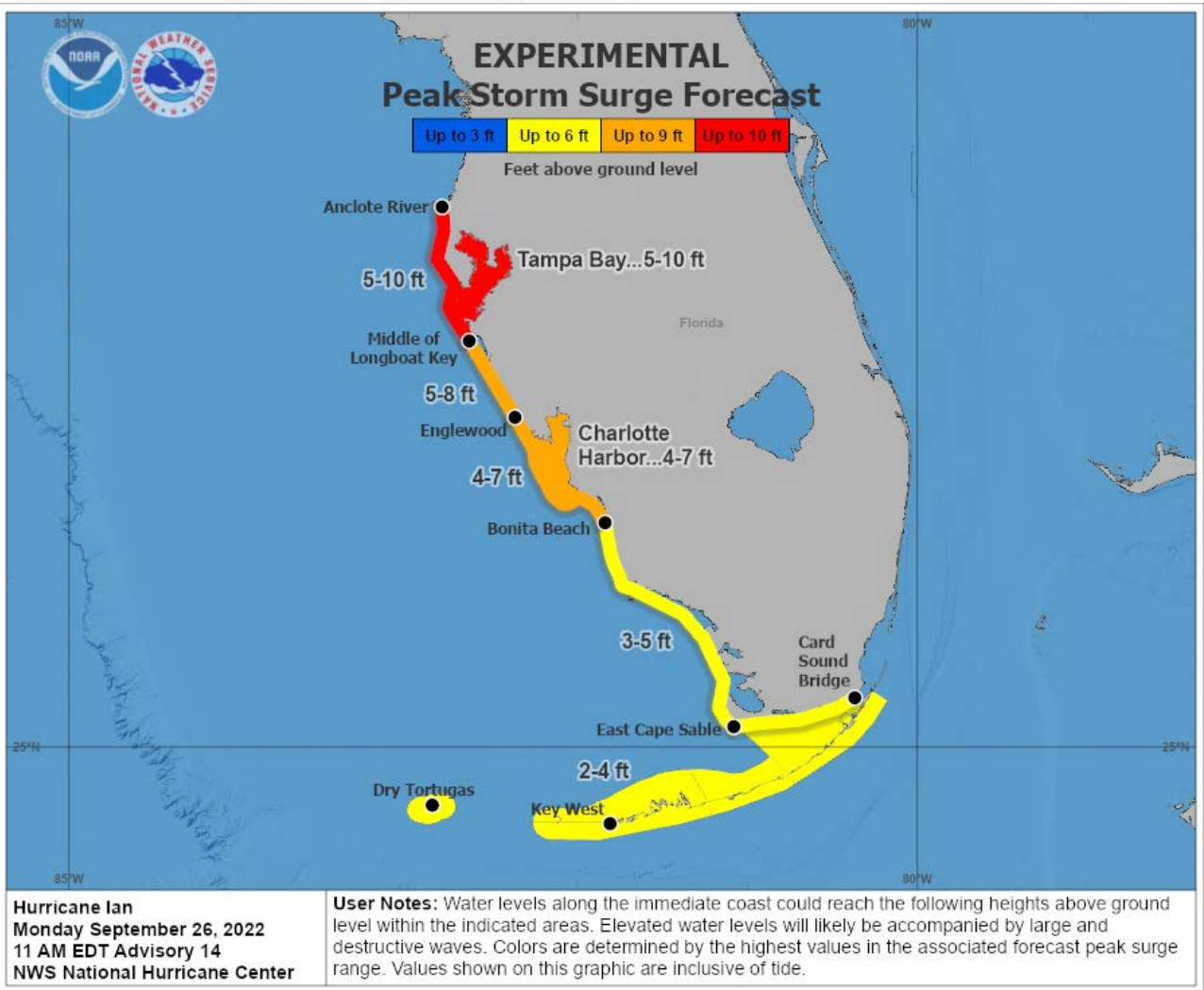
Wind Threat
Potential for wind greater than 110 mph
Potential for wind 74 to 110 mph
Potential for wind 58 to 73 mph
Potential for wind 39 to 57 mph
Wind less than 39 mph



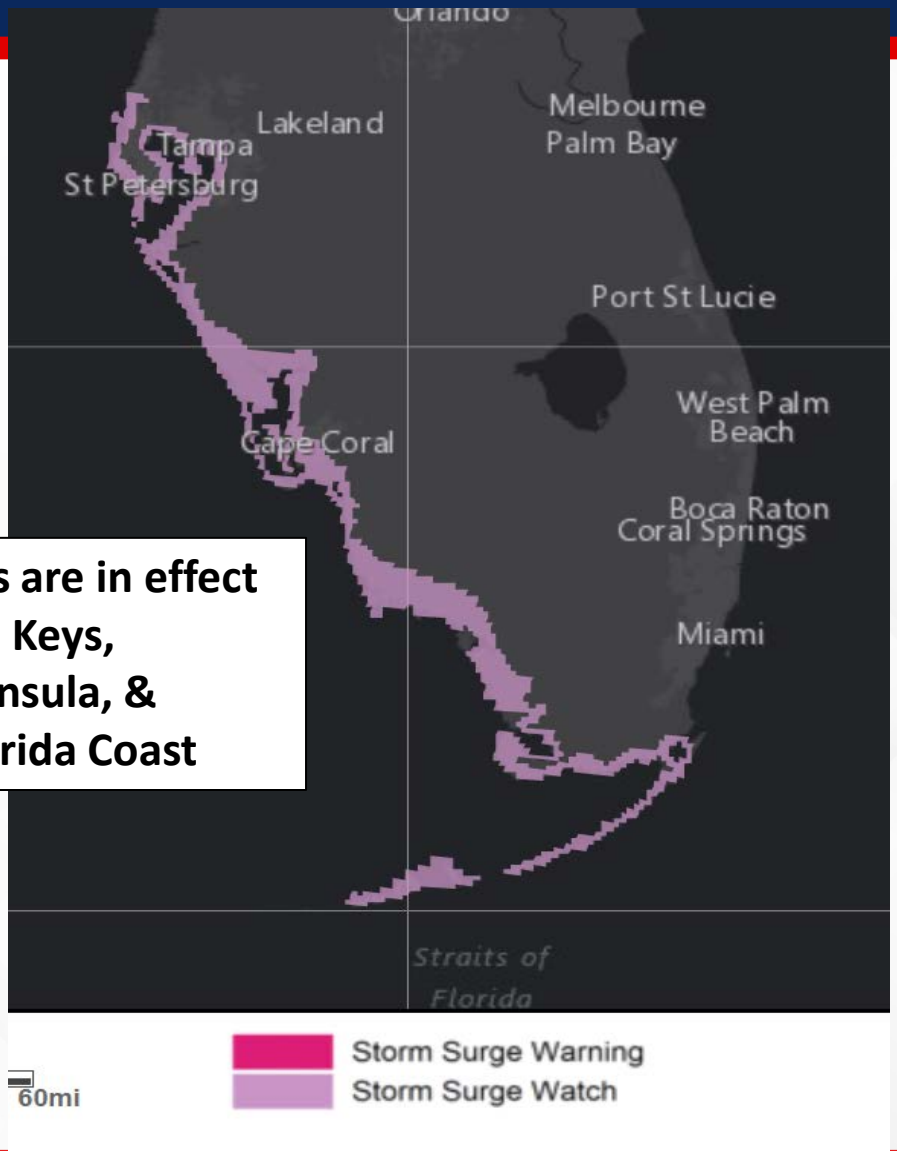


# Surge Watches and Warnings

In Effect Until Further Notice



Surge Watches are in effect for the Florida Keys, southern Peninsula, & Southwest Florida Coast





# Storm Surge **Warning**

There is a **danger of life-threatening inundation** from rising water moving inland from the shoreline generally **within 36 hours**.

Promptly follow evacuation and other instructions from local officials.

# Storm Surge **Watch**

There is a **possibility of life-threatening inundation** from rising water moving inland from the shoreline generally **within 48 hours**.

Promptly follow evacuation and other instructions from local officials.







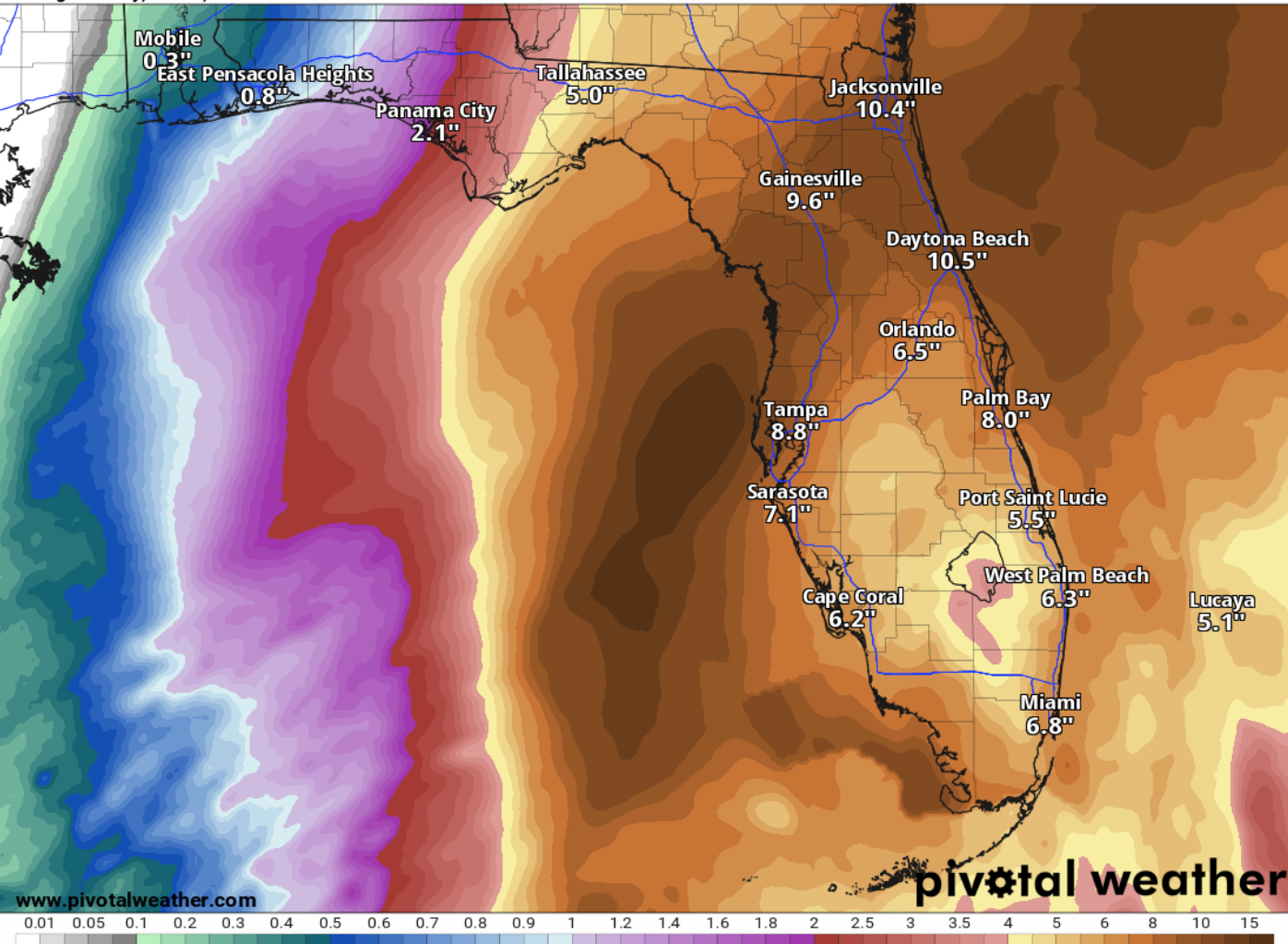
# 7-Day Forecast Rainfall

## From the Weather Prediction Center

### 7-Day Precipitation (in)

Ending Monday, Oct. 3, 2022 at 8 a.m. EDT

Init: Mon 2022-09-26 12z WPC



While it is still too early to determine where the heaviest rainfall totals will occur, widespread rainfall totals of 5-10" are possible as Ian moves northward, even over much of the Florida Peninsula.

Heavier rainfall totals up to 20" are possible near the center of the forecast track. Flood Watches may be issued for much of the state by Wednesday.





# Flash Flood Outlooks

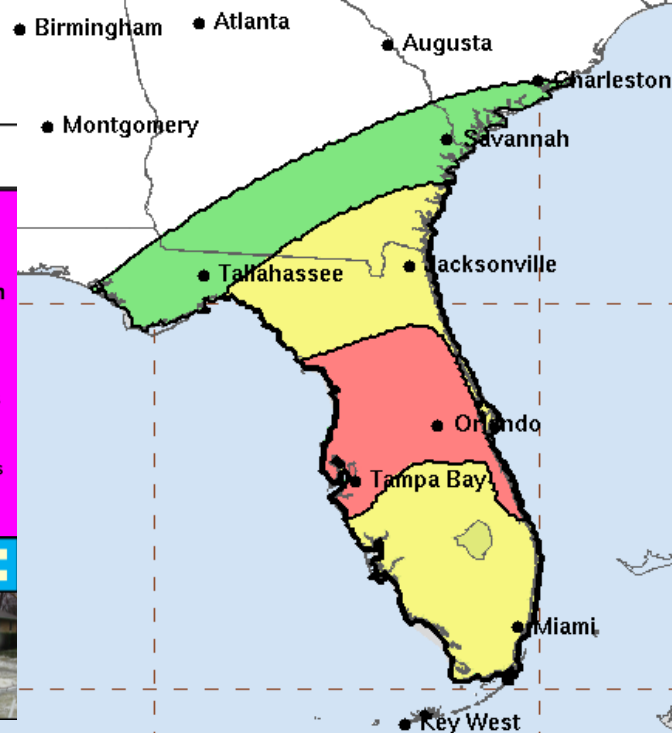
## From the Weather Prediction Center

### Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	<b>Isolated flash floods possible</b>  Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	<b>Scattered flash floods possible</b>  Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	<b>Numerous flash floods likely</b>  Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	<b>Widespread flash floods expected</b>  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

Hurricane Ian  
Day 1-3 Excessive Rainfall Outlook  
Created 4:32 AM EDT Mon Sep 26 2022  
Valid 8:00 AM EDT Mon Sep 26 2022  
through 8:00 AM EDT Thu Sep 29 2022  
NOAA/NWS/NCEP/WPC

### Greatest Flash Flood Risk Over the Next 3 Days



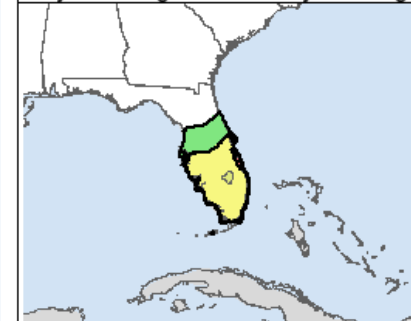
### Risk of flash flooding

Marginal: At Least 5%	Moderate: At Least 40%
Slight: At Least 15%	High: At Least 70%

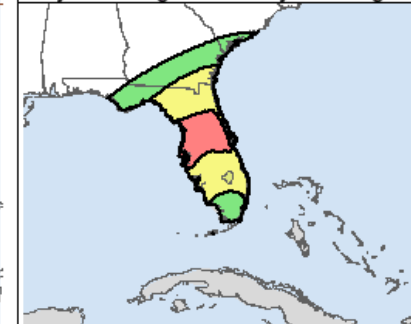
### Day 1 Through Tuesday morning



### Day 2 Through Wednesday morning



### Day 3 Through Thursday morning

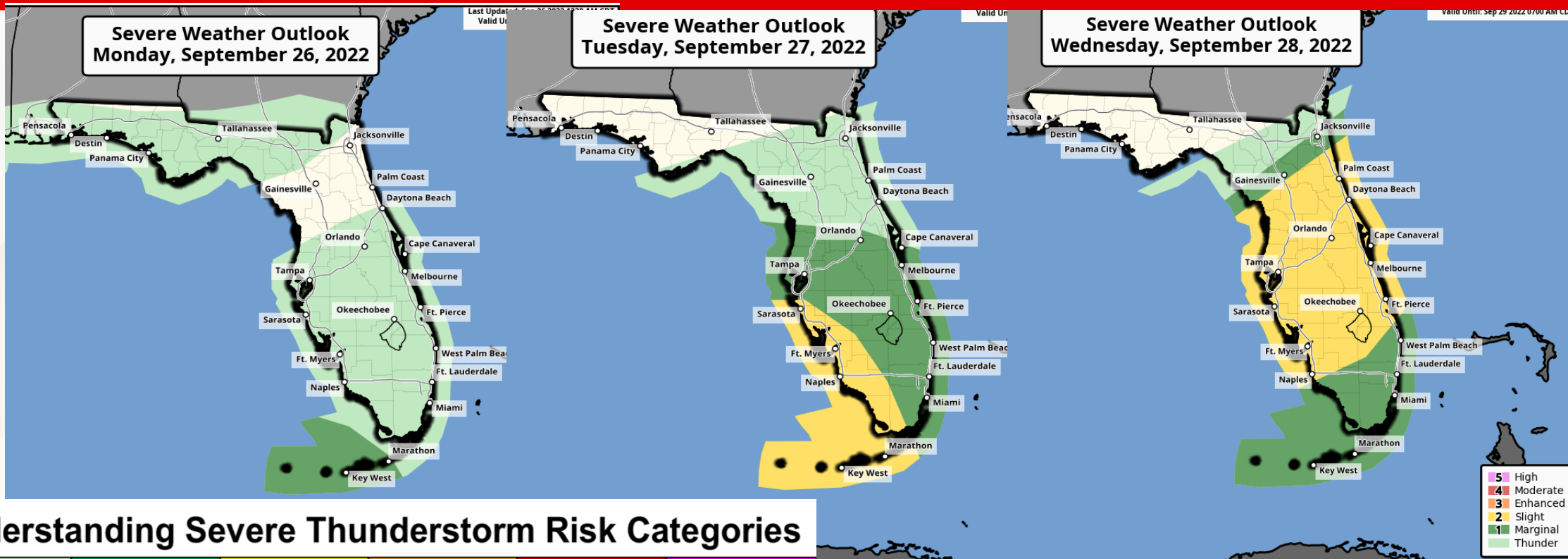


FOUO – For Government Official Use Only



# Severe Weather Outlooks

## 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.

**FOUO – For Government Official Use Only**



# Summary

## Hurricane Ian:

- As of 11:00 AM EDT Monday, Ian was located about 100 miles west of Grand Cayman Island, or about 380 miles south-southwest of Key West, Florida, and moving northwest around 13 mph.
- Maximum sustained winds have increased to 80 mph (Category 1). Tropical-storm-force winds extend outward up to 115 miles from the center, and hurricane force winds extend outward up to 25 miles from the center.
- Ian is expected to become a major hurricane by tonight before it near western Cuba.
- Ian could make landfall along the Florida Gulf Coast on late Thursday or early Friday, however, impacts could start in southern Florida on Tuesday and spread northward through the remainder of the week. Therefore, it is important to not focus on the exact forecast track of Ian.

## Florida Outlook:

- A **Hurricane Watches & Tropical Storm Watches** has been issued for much of Southwest Florida. **Tropical Storm Warnings** are in effect for the Lower Keys.
- A **Storm Surge Watch** has been issued for the Florida Keys and from Anclote River to Card Sound Bridge, including Tampa Bay.
- Storm surge values of 5-10 feet are expected from Anclote River to Englewood (and Tampa Bay), 5-8' from Longboat Key to Englewood, 4-7 feet from Englewood to Bonita Beach, including Charlotte Harbor, 3-5 feet from Bonita Beach to East Cape Sable, and 2-4 feet from East Cape Sable to Card Sound Bridge and the Florida Keys.
- Tropical rains may begin to overspread across the Florida Keys and southern Peninsula as early as late Monday and tropical storm-force winds may arrive on Tuesday. Tropical storm-force winds may then spread from south to north along portions of the Peninsula through Wednesday and could arrive in the eastern Panhandle/Big Bend on Wednesday.
- 4 to 10 inches of rain is possible across the Florida Peninsula with the highest totals near the west coast of Florida, where localized totals up to 15 inches are possible.
- Isolated tornadoes may begin as early as early Tuesday morning along the Florida Keys, expanding from south to north across the Peninsula.
- Rip currents will increase along the Florida Gulf Coast by Tuesday as swells from Ian move through the Gulf of Mexico.

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





# Tropical Update

**FOUO – For Government Official Use Only**



Created by:

Amy Godsey, Chief State Meteorologist

[Amy.Godsey@em.myflorida.com](mailto:Amy.Godsey@em.myflorida.com)

State Meteorological Support Unit

Florida Division of Emergency Management

Users wishing to subscribe (approval pending) to this distribution list, register at:

[https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic\\_id=SERT\\_Met\\_Tropics](https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_Tropics).

Other reports available for subscription are available at:

<https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true>