



# Tropical Update



8:00 AM EDT

Monday, September 26, 2022

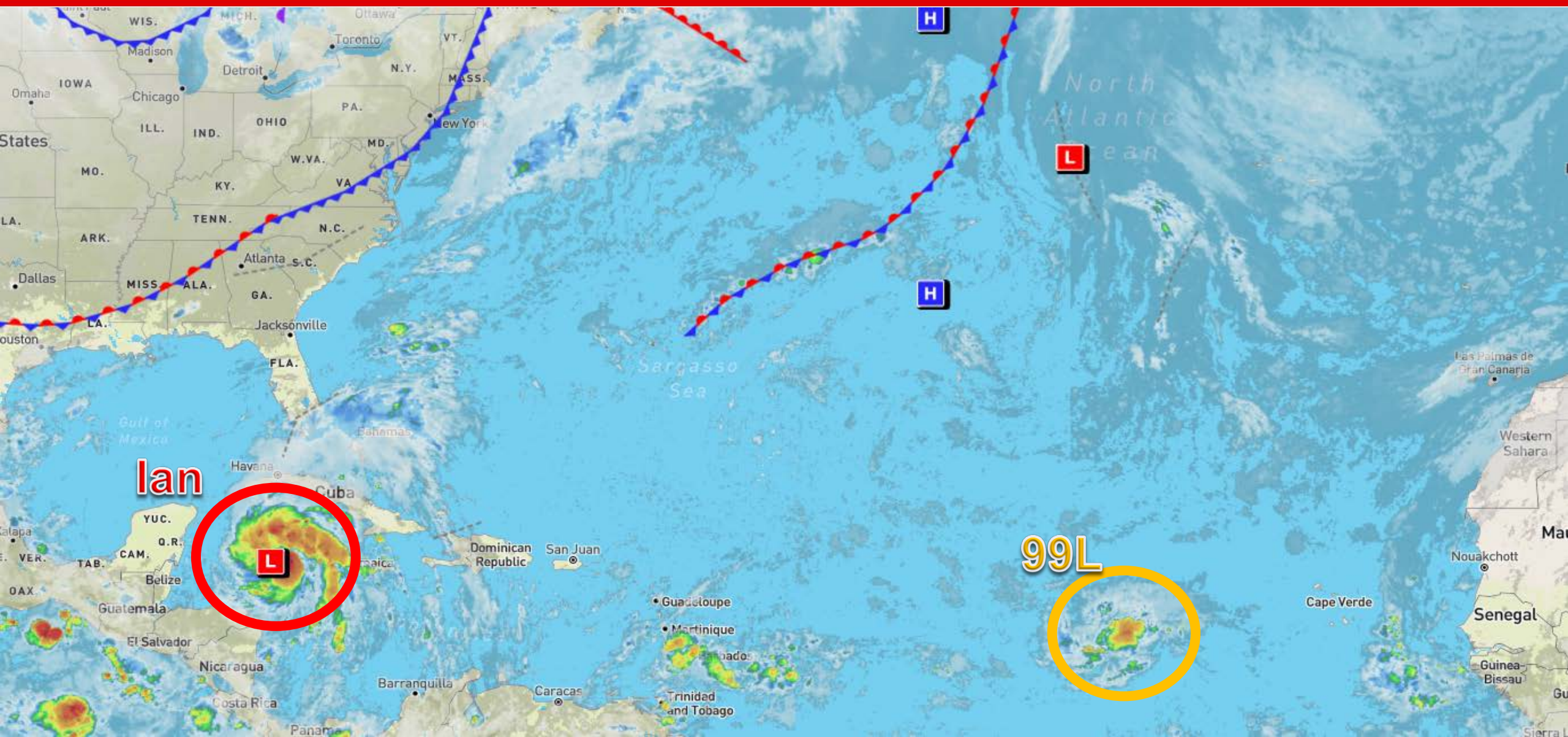
## Hurricane Ian

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).



# Atlantic Basin Satellite Image

Chance of development:   None   Low   Medium   High







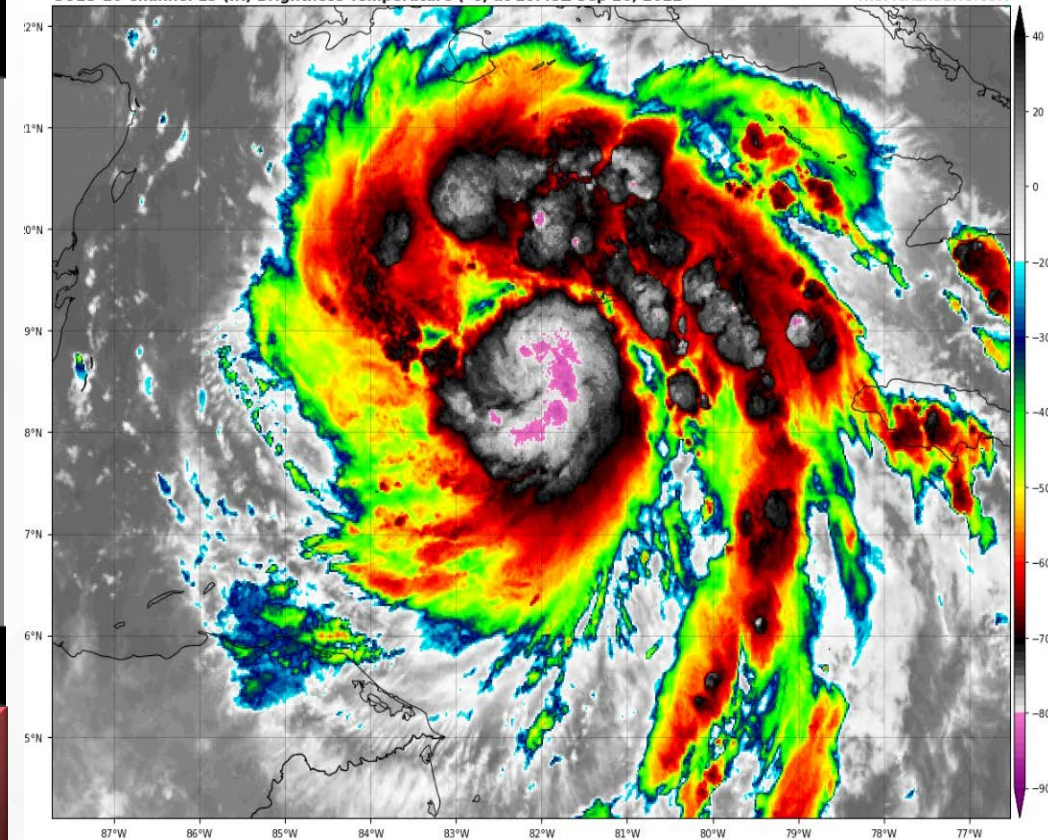
# Hurricane Ian

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

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

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 10:45Z Sep 26, 2022

TROPICALDDBITS.COM



## Overview/Recent Changes:

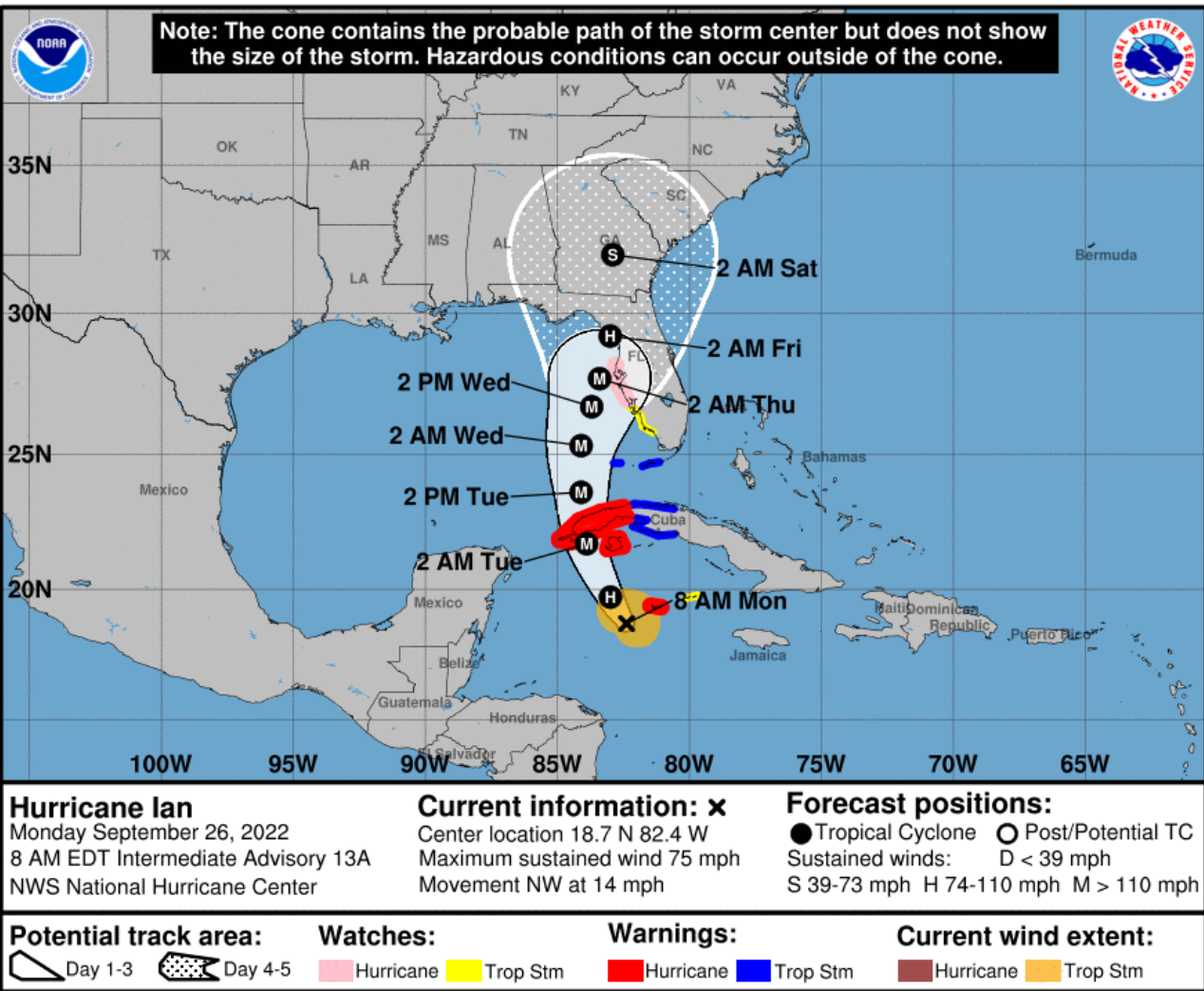
Ian was upgraded to a Category 1 hurricane. Tropical Storm Warnings and Hurricane Watches have been issued for the Lower Florida Keys and Southwest Florida Coast near and south of Tampa Bay. Additional watches and warnings will be issued today for other portions of the Florida Gulf Coast.



# Forecast Cone

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

- **Location:** 90 miles southwest of Grand Cayman Island; 440 miles south of Key West, Florida
- **Maximum Sustained Winds:** 75 mph, Category 1
- **Current Movement:** NW at 14 mph
- **FL Watches/Warnings:**
  - **Tropical Storm Warnings:** Lower Florida Keys from Seven Mile Bridge westward to Key West
  - **Tropical Storm Watch:** Englewood southward to Chokoloskee
  - **Hurricane Watch:** Englewood to the Anclote River, including Tampa Bay



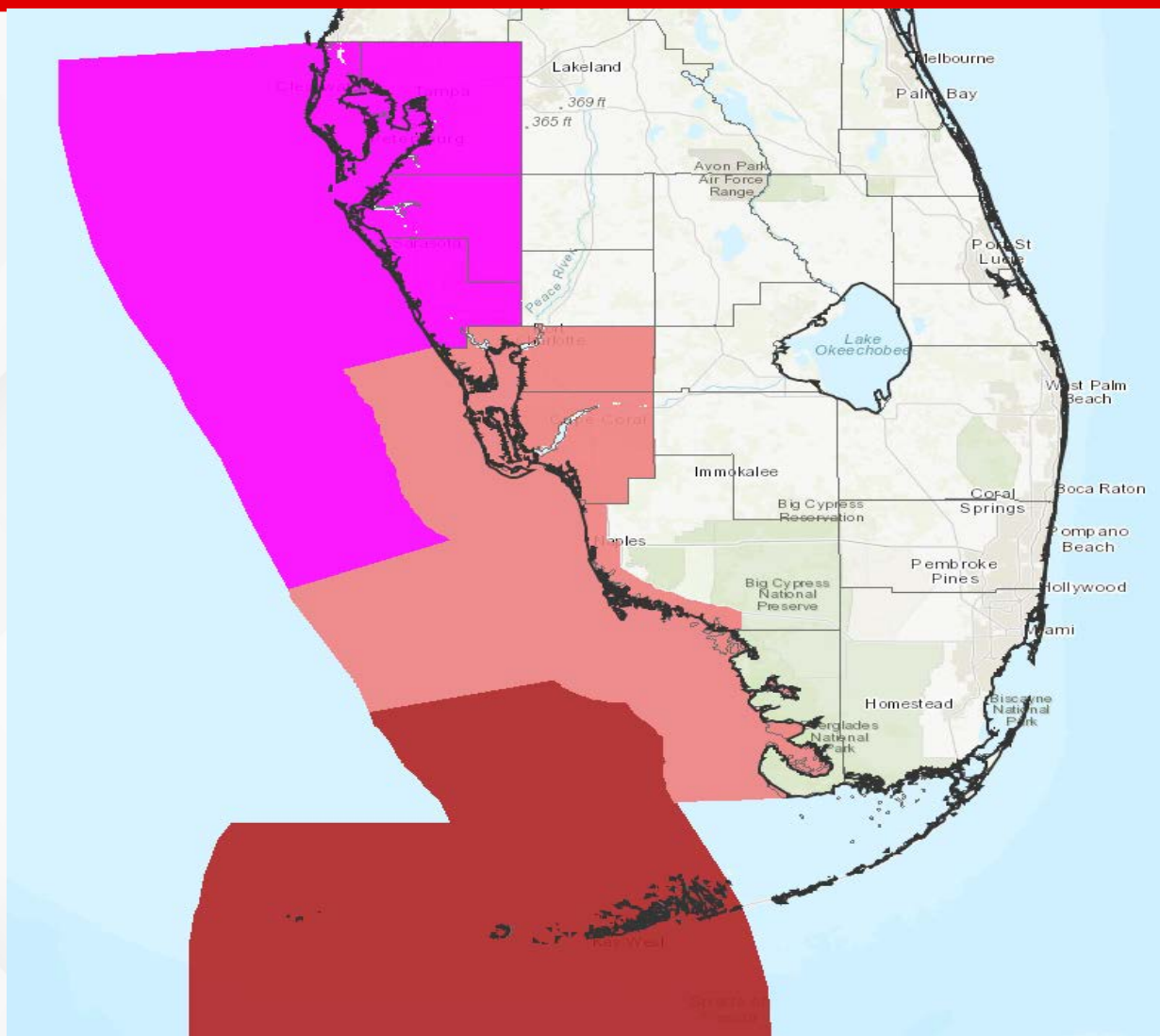
A turn toward the north-northwest is expected today followed by a northward motion on Tuesday with a slightly slower forward speed. A turn toward the north-northeast is forecast on Tuesday night or early Wednesday. On the forecast track, the center of Ian is expected to pass near or over western Cuba 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 15 miles from the center and tropical-storm-force winds extend outward up to 90 miles.





# Active Tropical Watches/Warnings



- **Hurricane Watch:**
  - Pinellas, Hillsborough, Manatee, Sarasota
- **Tropical Storm Warning:**
  - Lower Keys
- **Tropical Storm Watch:**
  - Charlotte, Lee, Coastal Collier

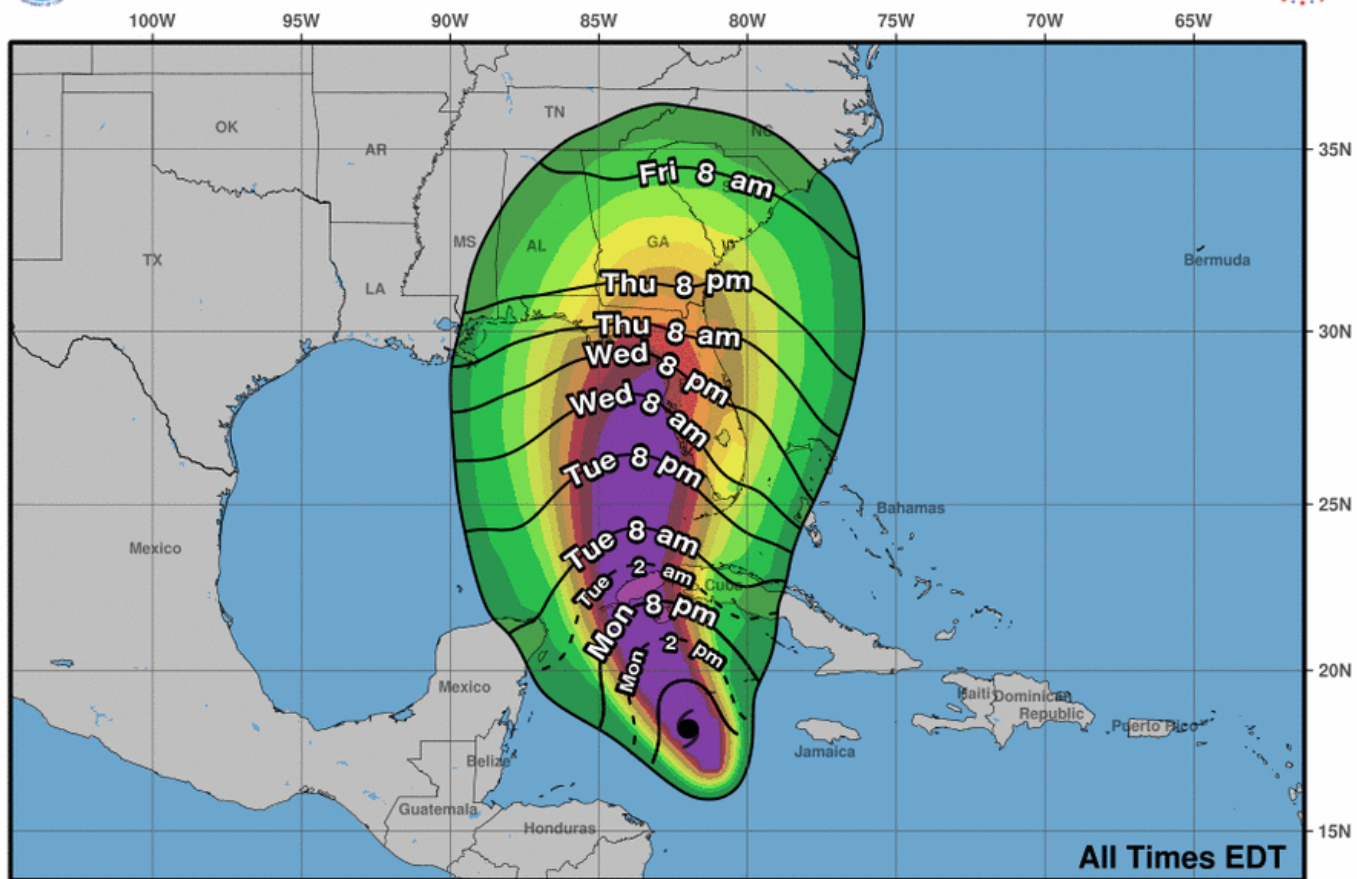


# Tropical Storm-Force Wind Probabilities

Hurricane Ian ([LINK](#))



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



Hurricane Ian  
Mon. Sep. 26, 2022 5 am EDT  
Advisory 13

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 %

- Key West – 69% (+16%)
- Naples – 81% (+22%)
- Tampa – 90% (+14%)
- Orlando – 63% (+23%)
- Cedar Key – 83% (+11%)
- Tallahassee – 51% (+1%)
- Apalachicola – 61% (-1%)
- Panama City – 49% (-2%)
- Destin – 27% (-1%)
- Jacksonville – 58% (+11%)

**\*The numbers in parenthesis show the change in probability since the last briefing packet.\***

Tropical storm-force winds may begin as early as late Monday night into early Tuesday morning along the Florida Keys and southern Peninsula, but are more likely to arrive on Tuesday. Tropical storm-force winds may begin as early as Tuesday evening across portions of Central Florida and Wednesday morning across North Florida, but are more likely to begin Wednesday night into Thursday.



# Tropical Storm-Force Wind Probabilities

## Hurricane Ian

Arrival times for winds of at least tropical storm strength. Earliest reasonable and most likely times are based on probabilistic data that considers forecast uncertainty. Probability of winds within the 5-day forecast period is represented by percent values in the WSP column.

TITLE	STATE	5 day WSP	EARLIEST(hrs)	MOST LIKELY(hrs)
Alachua	FL	79%	09/28 9AM(52)	09/29 12AM(67)
Baker	FL	72%	09/28 12PM(55)	09/29 8AM(75)
Bay	FL	47%	09/28 11AM(54)	09/29 10AM(77)
Bradford	FL	76%	09/28 10AM(53)	09/29 1AM(68)
Brevard	FL	59%	09/28 6AM(49)	09/28 10PM(65)
Broward	FL	46%	09/27 12PM(31)	09/28 10AM(53)
Calhoun	FL	48%	09/28 1PM(56)	09/29 1PM(80)
Charlotte	FL	95%	09/27 1PM(32)	09/27 10PM(41)
Citrus	FL	90%	09/28 12AM(43)	09/28 11AM(54)
Clay	FL	68%	09/28 11AM(54)	09/29 4AM(71)
Collier	FL	87%	09/27 10AM(29)	09/27 8PM(39)
Columbia	FL	74%	09/28 12PM(55)	09/29 7AM(74)
DeSoto	FL	73%	09/27 9PM(40)	09/28 8AM(51)
Dixie	FL	79%	09/28 9AM(52)	09/29 12AM(67)
Duval	FL	68%	09/28 1PM(56)	09/29 11AM(78)
Escambia	FL	24%	09/28 1PM(56)	09/29 8PM(87)
Flagler	FL	66%	09/28 11AM(54)	09/29 7AM(74)
Franklin	FL	61%	09/28 5AM(48)	09/28 7PM(62)
Gadsden	FL	57%	09/28 2PM(57)	09/29 1PM(80)
Gilchrist	FL	79%	09/28 9AM(52)	09/29 12AM(67)

Glades	FL	59%	09/27 6PM(37)	09/28 8AM(51)
Gulf	FL	53%	09/28 5AM(48)	09/28 8PM(63)
Hamilton	FL	66%	09/28 3PM(58)	09/29 2PM(81)
Hardee	FL	73%	09/27 9PM(40)	09/28 8AM(51)
Hendry	FL	54%	09/27 1PM(32)	09/28 6AM(49)
Hernando	FL	93%	09/27 9PM(40)	09/28 7AM(50)
Highlands	FL	63%	09/27 10PM(41)	09/28 11AM(54)
Hillsborough	FL	86%	09/27 11PM(42)	09/28 10AM(53)
Holmes	FL	38%	09/28 5PM(60)	09/29 7PM(86)
Indian River	FL	59%	09/27 10PM(41)	09/28 5PM(60)
Jackson	FL	48%	09/28 1PM(56)	09/29 1PM(80)
Jefferson	FL	76%	09/28 7AM(50)	09/28 11PM(66)
Lafayette	FL	74%	09/28 11AM(54)	09/29 6AM(73)
Lake	FL	77%	09/28 2AM(45)	09/28 3PM(58)
Lee	FL	94%	09/27 1PM(32)	09/27 10PM(41)
Leon	FL	62%	09/28 2PM(57)	09/29 12PM(79)
Levy	FL	90%	09/28 2AM(45)	09/28 2PM(57)
Liberty	FL	61%	09/28 11AM(54)	09/29 7AM(74)
Madison	FL	66%	09/28 2PM(57)	09/29 12PM(79)
Manatee	FL	84%	09/27 5PM(36)	09/28 1AM(44)
Marion	FL	80%	09/28 8AM(51)	09/28 9PM(64)
Martin	FL	53%	09/27 8PM(39)	09/28 3PM(58)
Miami-Dade	FL	40%	09/27 6AM(25)	09/27 8PM(39)

Monroe	FL	67%	09/27 8AM(27)	09/27 5PM(36)
Nassau	FL	63%	09/28 5PM(60)	09/29 5PM(84)
Okaloosa	FL	29%	09/28 2PM(57)	09/29 7PM(86)
Okeechobee	FL	53%	09/27 10PM(41)	09/28 11AM(54)
Orange	FL	67%	09/28 4AM(47)	09/28 6PM(61)
Osceola	FL	66%	09/28 4AM(47)	09/28 6PM(61)
Palm Beach	FL	46%	09/27 4PM(35)	09/28 1PM(56)
Pasco	FL	96%	09/27 9PM(40)	09/28 7AM(50)
Pinellas	FL	96%	09/27 7PM(38)	09/28 3AM(46)
Polk	FL	76%	09/27 11PM(42)	09/28 11AM(54)
Putnam	FL	72%	09/28 11AM(54)	09/29 4AM(71)
Santa Rosa	FL	24%	09/28 1PM(56)	09/29 7PM(86)
Sarasota	FL	95%	09/27 5PM(36)	09/28 1AM(44)
Seminole	FL	69%	09/28 7AM(50)	09/28 10PM(65)
St. Johns	FL	63%	09/28 11AM(54)	09/29 7AM(74)
St. Lucie	FL	45%	09/27 8PM(39)	09/28 3PM(58)
Sumter	FL	84%	09/28 2AM(45)	09/28 1PM(56)
Suwannee	FL	74%	09/28 12PM(55)	09/29 7AM(74)
Taylor	FL	72%	09/28 5AM(48)	09/28 6PM(61)
Union	FL	72%	09/28 12PM(55)	09/29 8AM(75)
Volusia	FL	69%	09/28 7AM(50)	09/28 10PM(65)
Wakulla	FL	76%	09/28 7AM(50)	09/28 11PM(66)
Walton	FL	35%	09/28 1PM(56)	09/29 6PM(85)
Washington	FL	42%	09/28 1PM(56)	09/29 4PM(83)





# 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	38%
Cedar Key	34%
Tallahassee	11%
Apalachicola	16%
Orlando	11%





# Key Messages

## From the National Hurricane Center



### Key Messages for Hurricane Ian

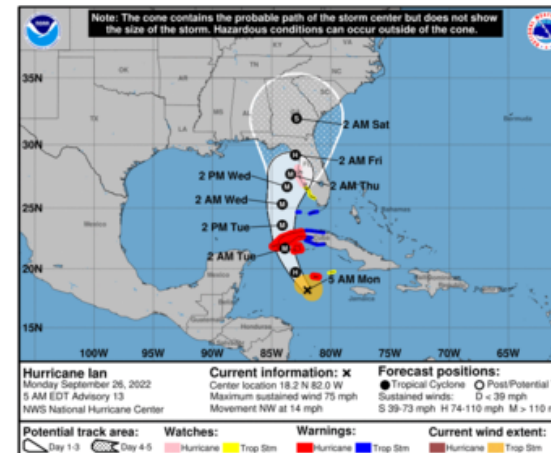
#### Advisory 13: 5:00 AM EDT Mon Sep 26, 2022



1. Ian is expected to produce heavy rainfall and instances of flash flooding and possible mudslides in areas of higher terrain, particularly over Jamaica and Cuba. Considerable flooding impacts are possible later this week in west central Florida. Additional flash and urban flooding, and flooding on rivers across the Florida Peninsula and parts of the Southeast cannot be ruled out for later this week.

2. Life-threatening storm surge and hurricane-force winds are expected in portions of western Cuba beginning late today, and Ian is forecast to be at major hurricane strength when it is near western Cuba. Efforts to protect life and property should be rushed to completion.

3. Ian is expected to be a major hurricane in the eastern Gulf of Mexico during the middle of this week. Regardless of Ian's exact track and intensity, there is a risk of a life-threatening storm surge, hurricane-force winds, and heavy rainfall along the west coast of Florida and the Florida Panhandle by the middle of this week. Tropical Storm and Hurricane Watches have been issued for a portion of the west coast of Florida and additional watches may be required later today.



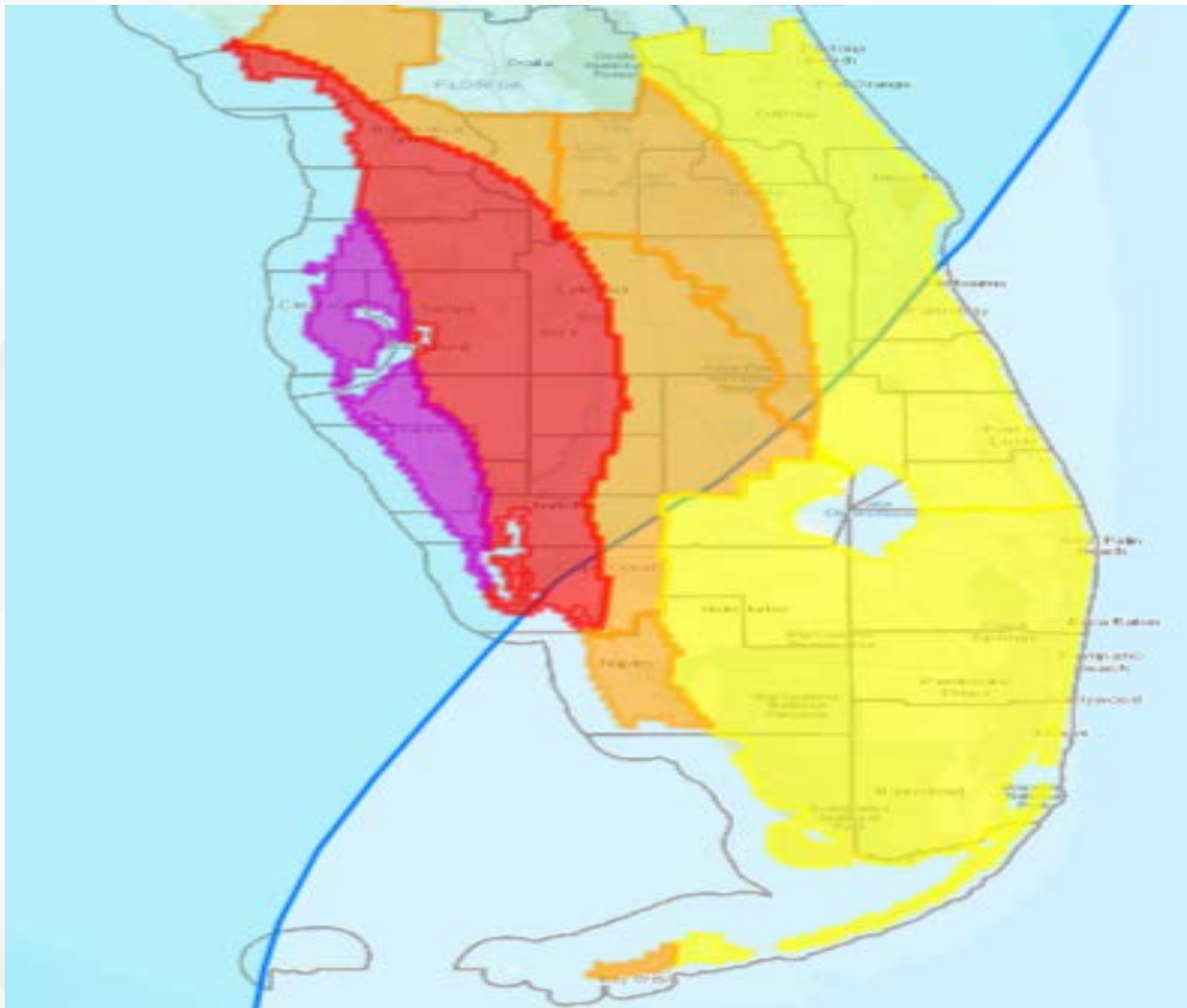
For more information go to [hurricanes.gov](https://hurricanes.gov)

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# 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)

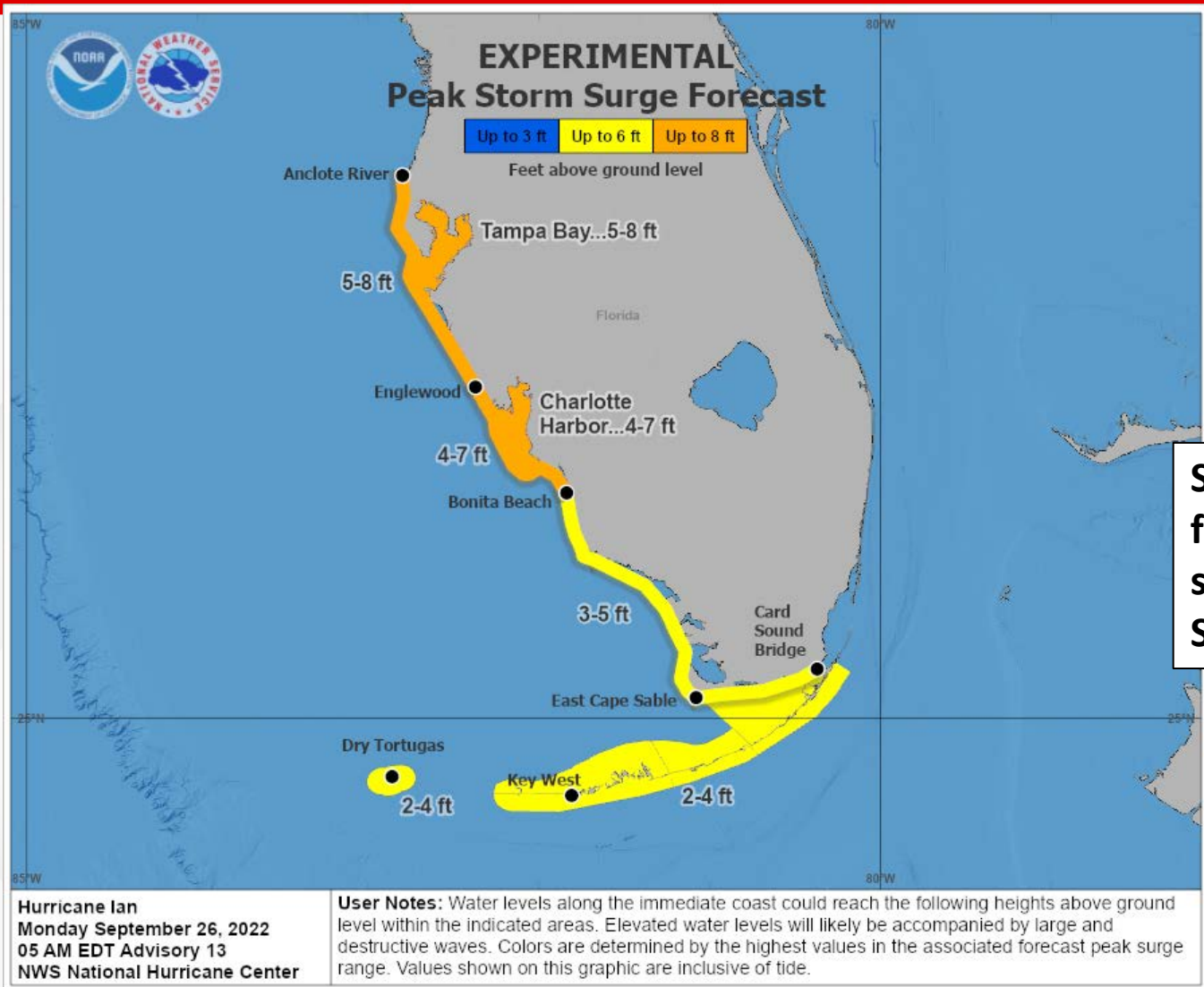
Click on “Threats and Impacts” Tab

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

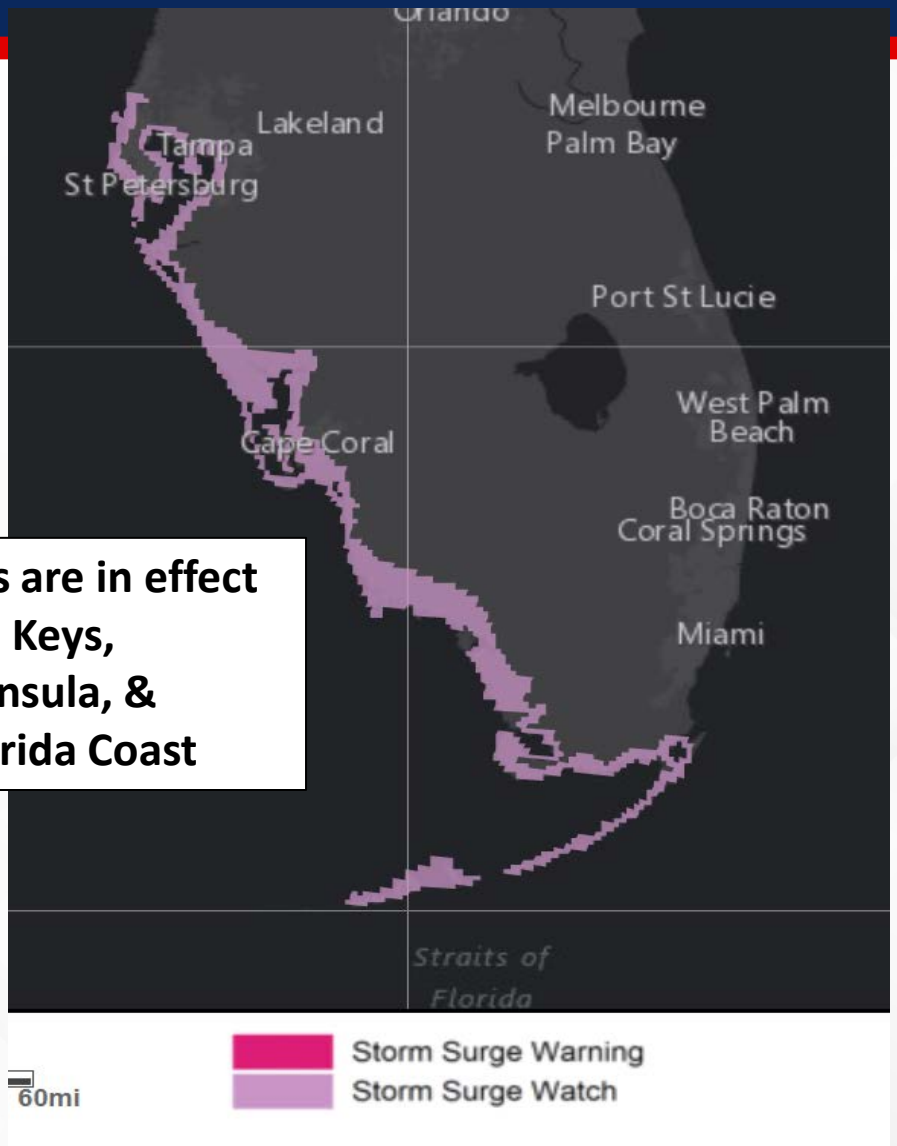


# Surge Watches and Warnings

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.





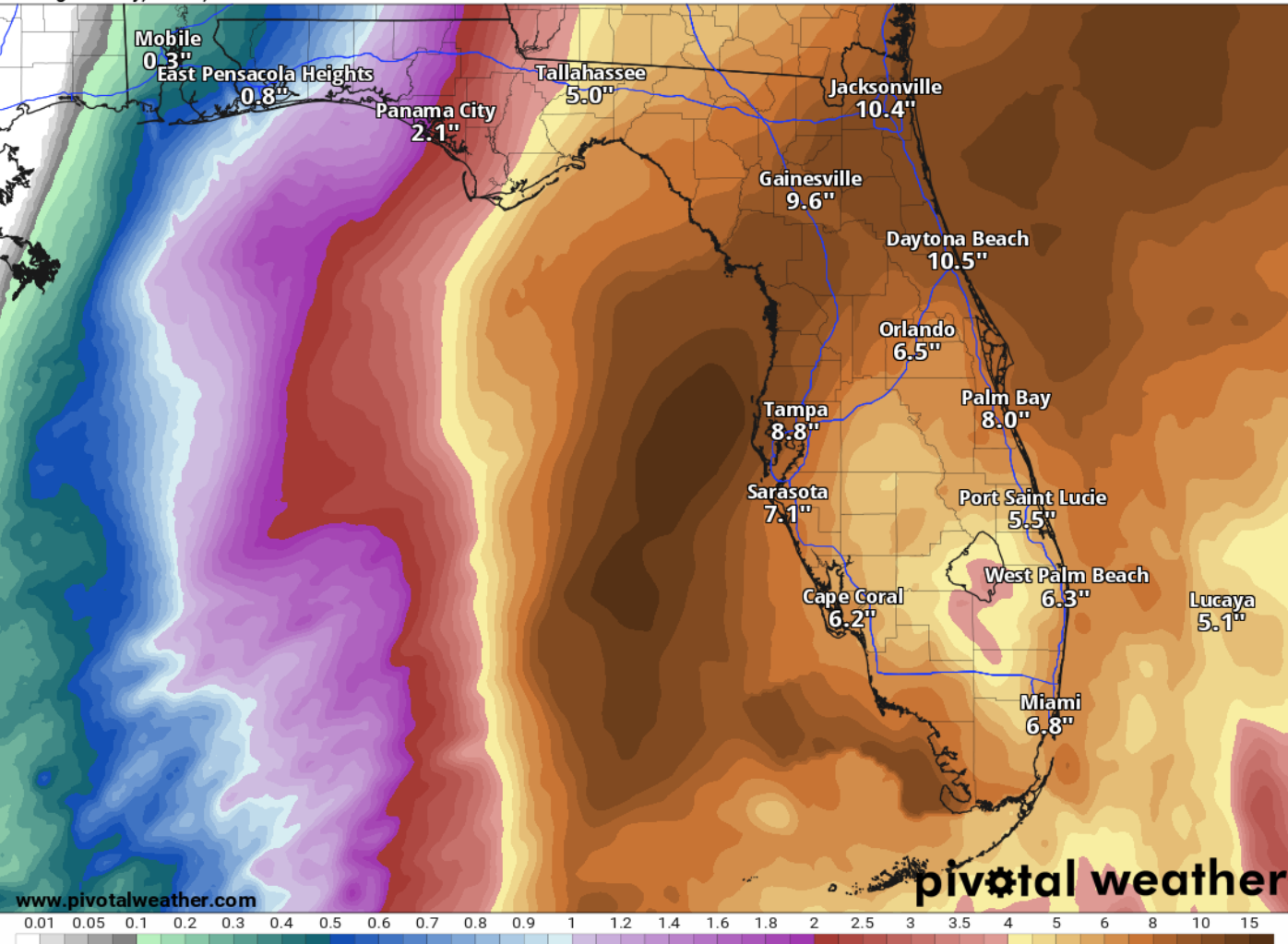
# 7-Day Forecast Rainfall

## 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.

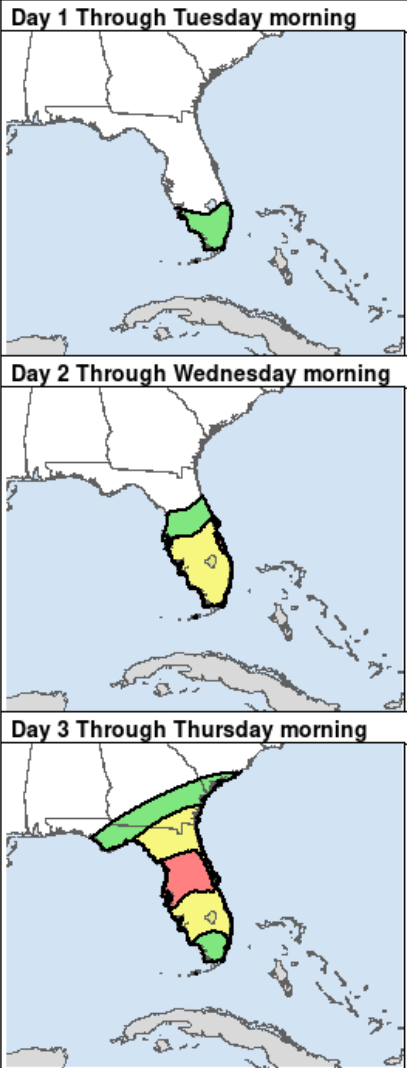
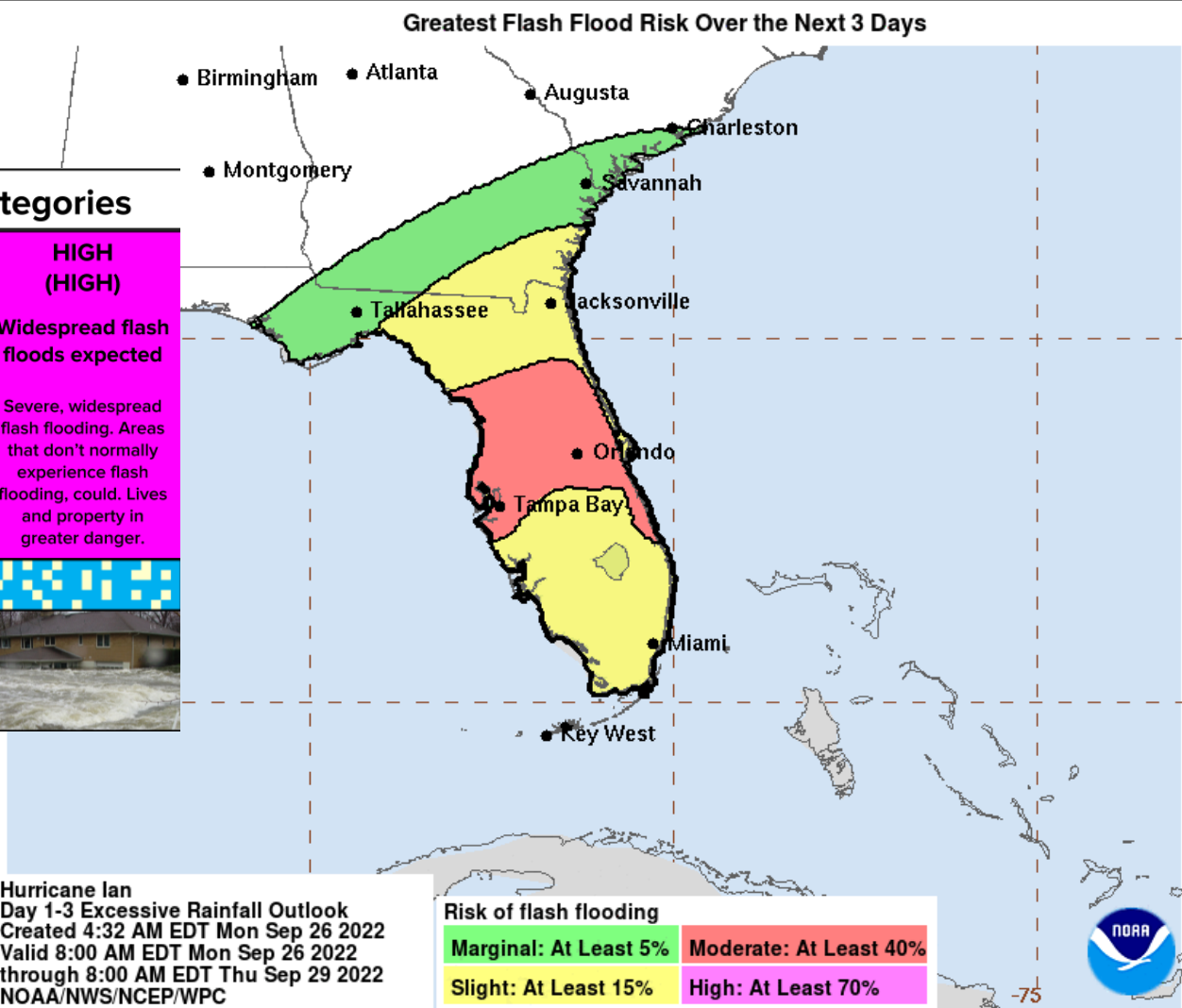




# Flash Flood Outlooks

## 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.	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





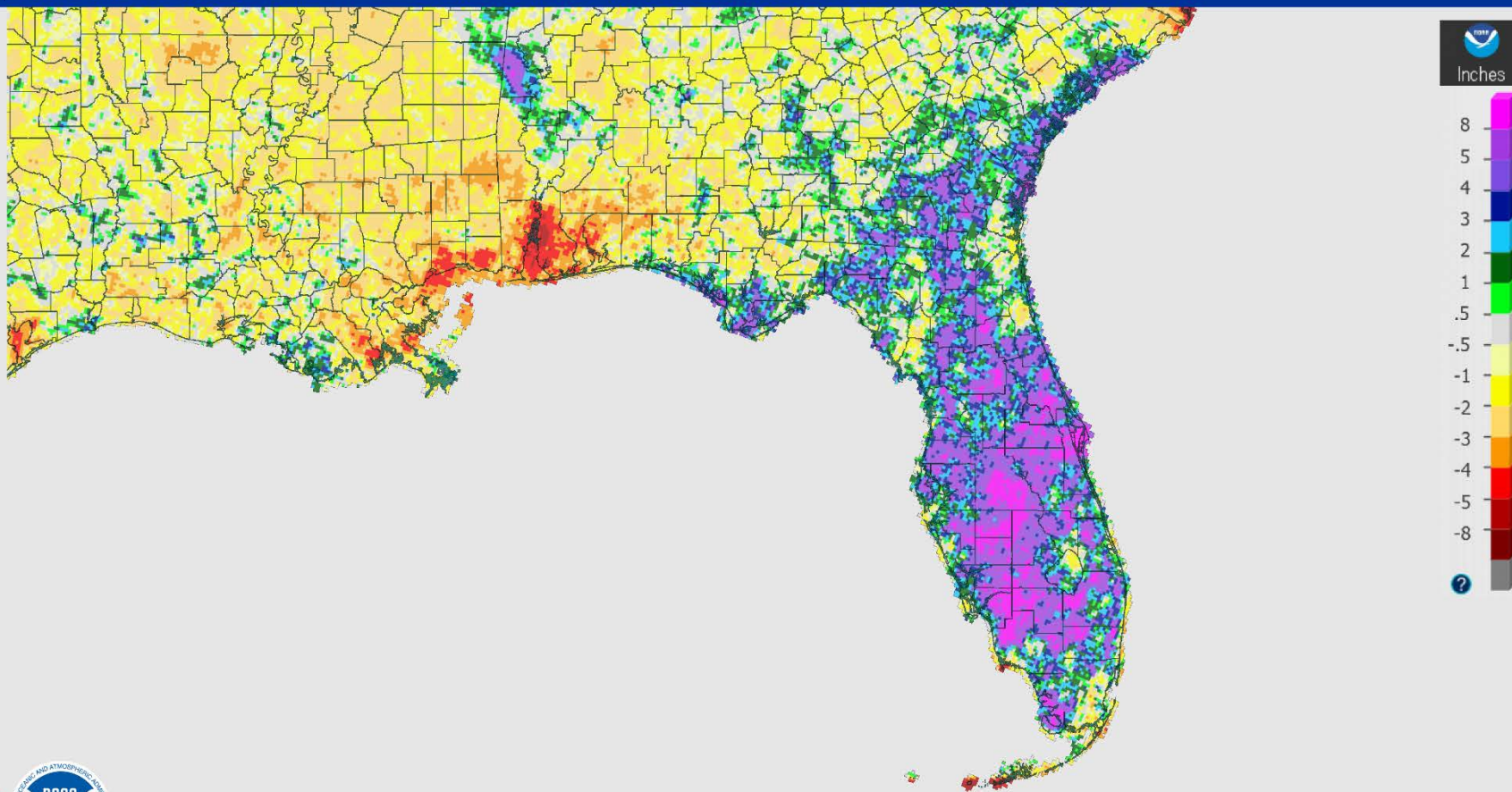


# 30-Day Rainfall Departure from Normal

September 25, 2022 30-Day Departure Precipitation

Created on: September 25, 2022 - 19:44 UTC

Valid on: September 25, 2022 12:00 UTC



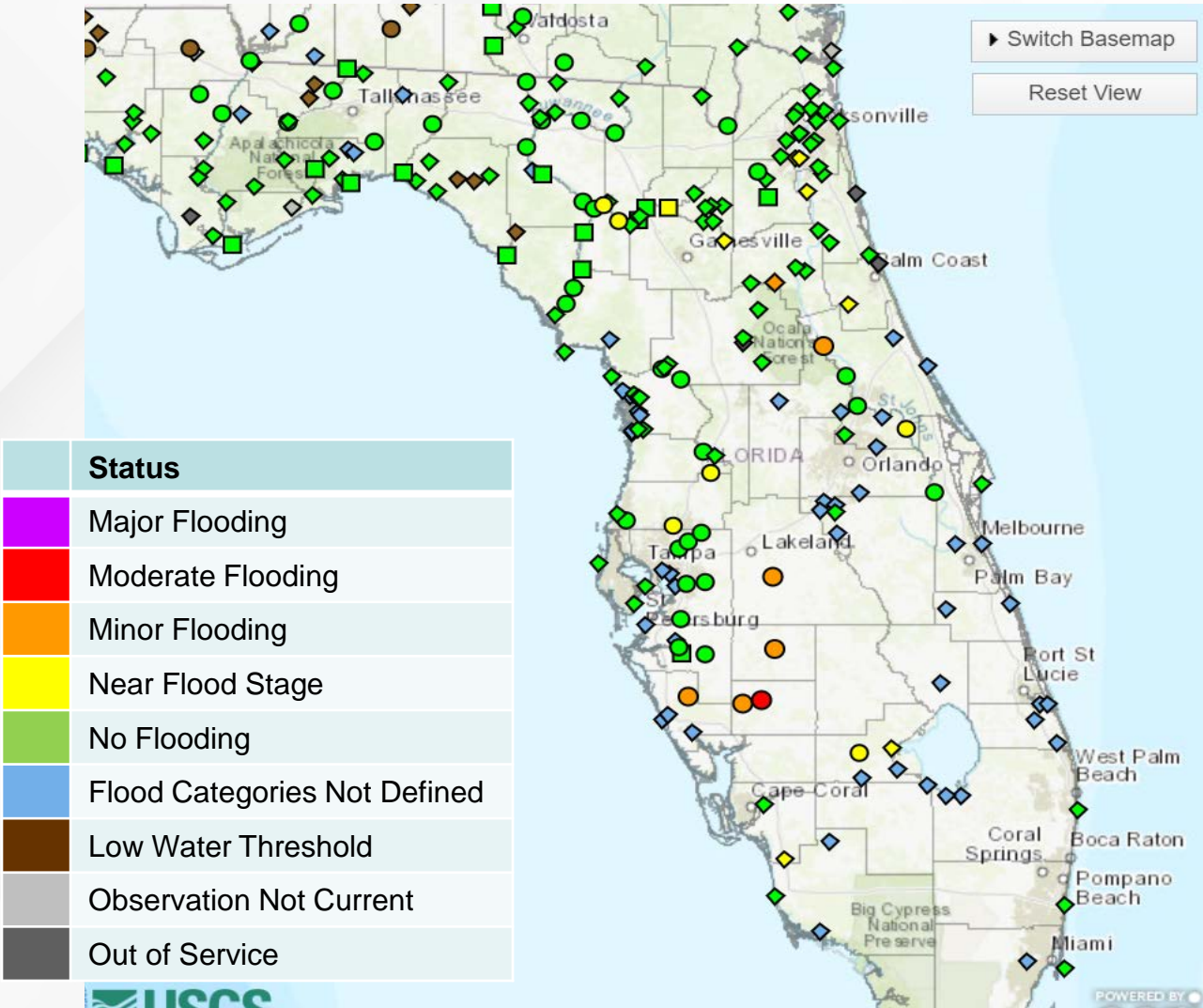
Much of the Florida Peninsula and Big Bend have rainfall surpluses of 3-10" and could lead to rapid onset of flooding as well as increased drainage into area rivers.





# Current River Observations

As of Monday Morning



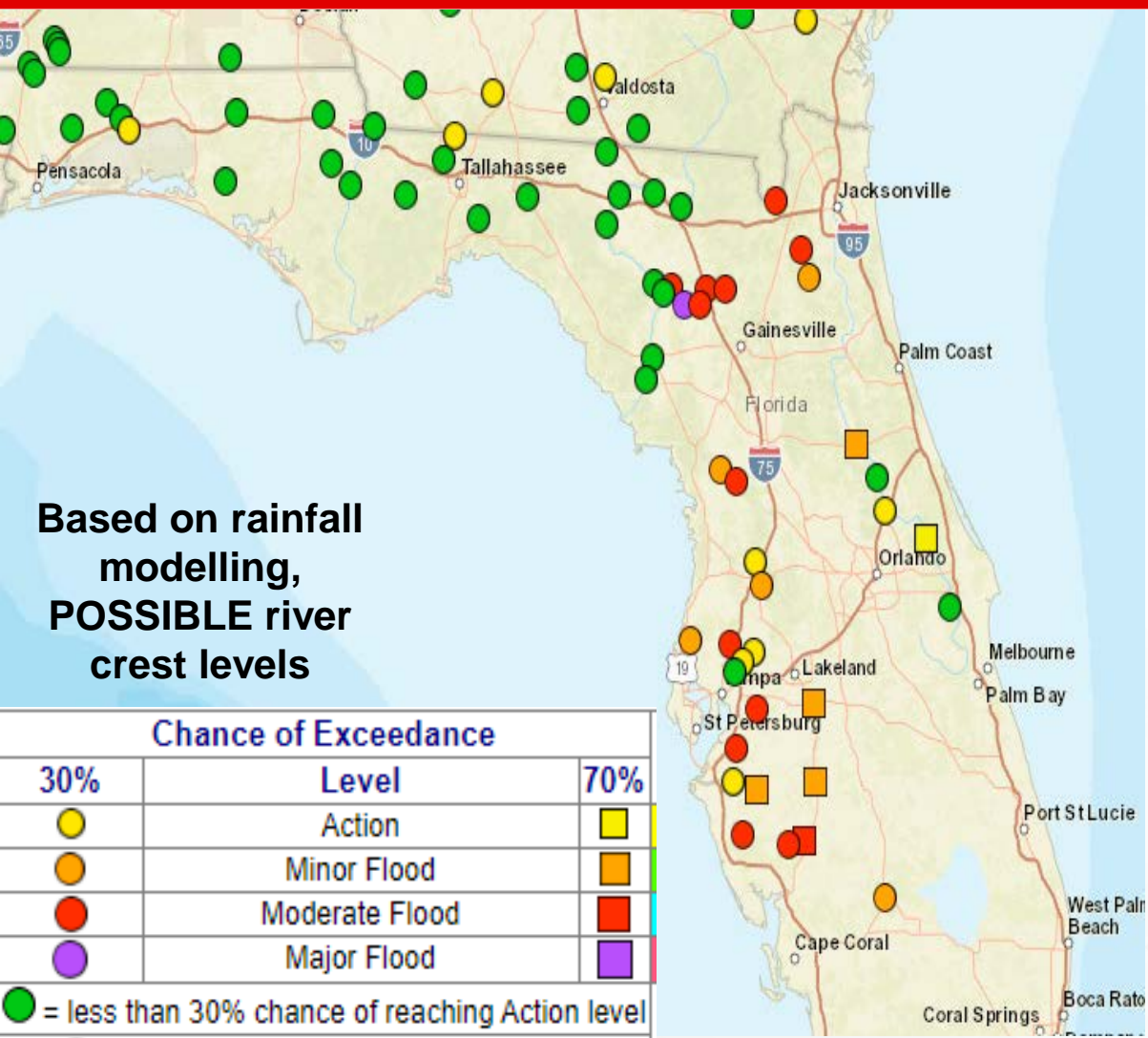
**Minor to moderate riverine flooding** continues on the Peace River, as well as Horse Creek and Myakka River in West Central Florida. Minor flooding is also still occurring on the St. Johns River at Astor as well as the Ocklawaha River in Northeast Florida. While these rivers are receding, the combination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



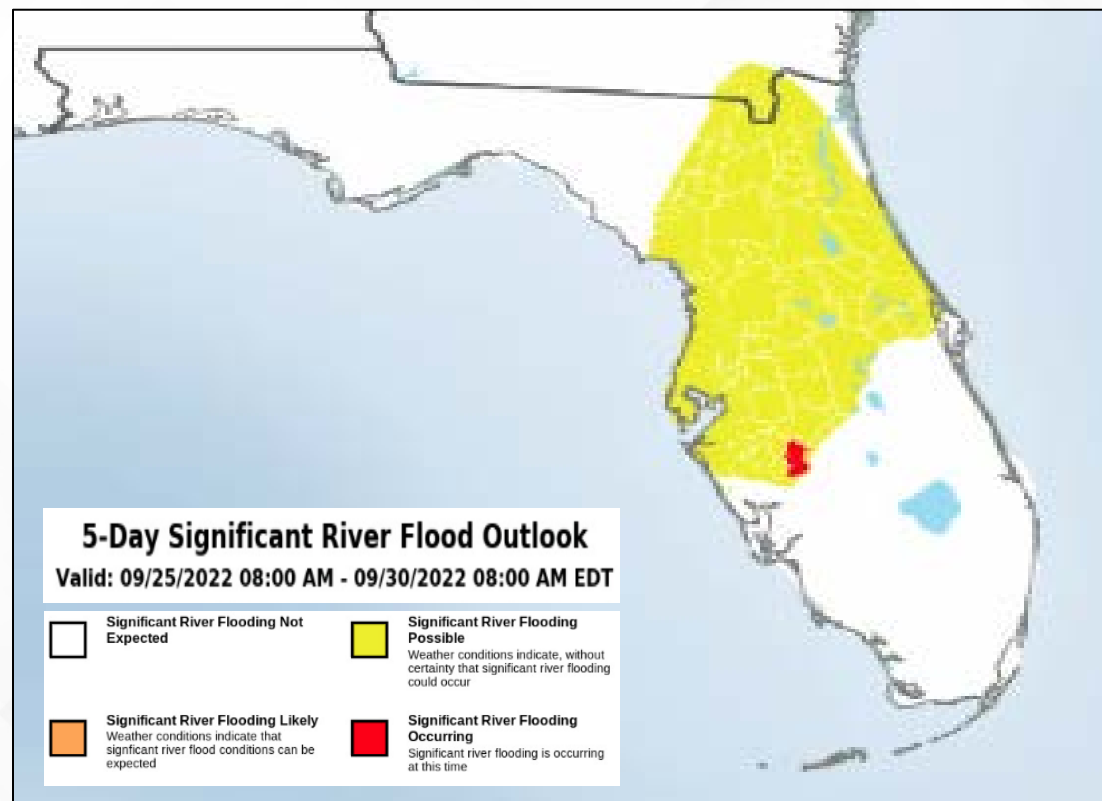


# Possible River Flooding

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



There is the potential for significant river flooding, particularly in the central and northern Florida Peninsula basins where some rivers are already near bank full or above flood stage. Depending on the forecast track, some Panhandle rivers may also be at risk for flooding.



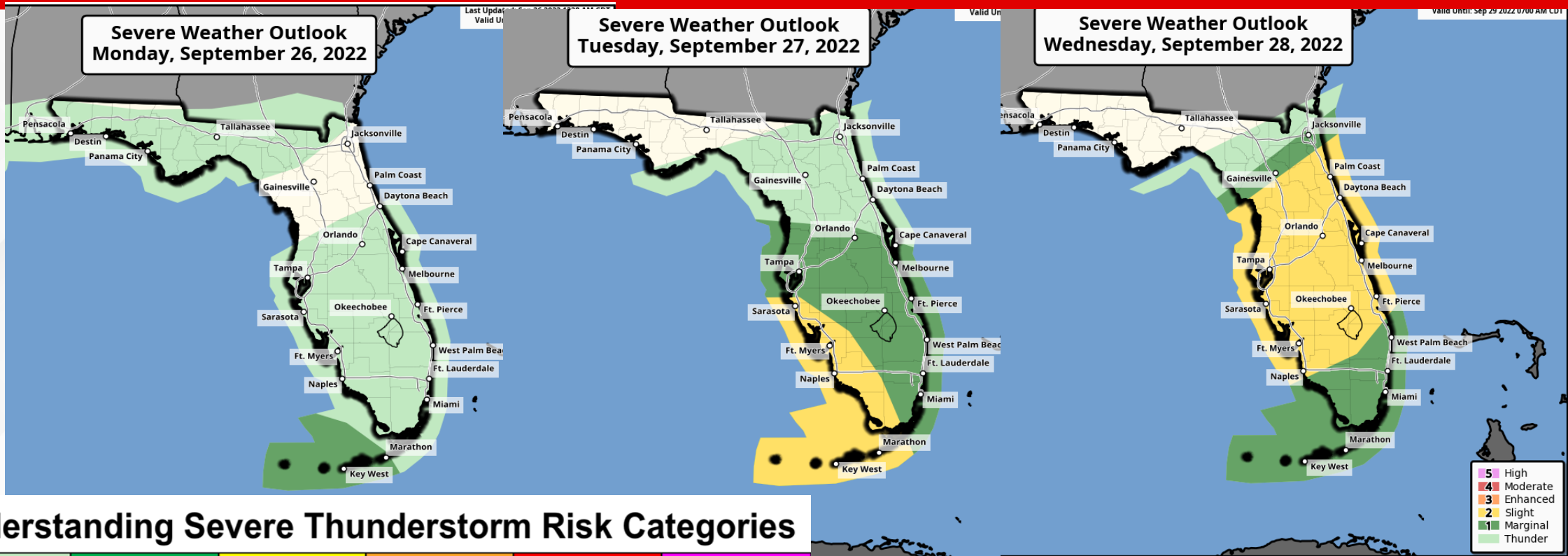
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# Severe Weather Outlooks

## 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.



# Summary

## Hurricane Ian:

- As of 5:00 AM EDT Monday, Ian was located about 90 miles west-southwest of Grand Cayman Island, or about 405 miles south-southwest of Key West, Florida, and moving northwest around 14 mph.
- A turn toward the north-northwest is expected today, followed by a turn toward the north on Tuesday and north-northeast on Tuesday night or early Wednesday as it emerges into the southeastern Gulf of Mexico.
- Maximum sustained winds have increased to 75 mph (Category 1). Tropical-storm-force winds extend outward up to 90 miles from the center, and hurricane force winds extend outward up to 15 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 Watch** has been issued from Englewood to the Anclote River, including Tampa Bay.
- A **Tropical Storm Watch** has been issued from Englewood to Chokoloskee.
- 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 5-8 feet are expected from Anclote River to Englewood (and Tampa Bay), 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 mid-next week.
- 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 Afternoon. For the latest information, please visit the [National Hurricane Center website](#).



# Tropical Update

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State Meteorological Support Unit

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