



Tropical Update



5:00 AM 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.



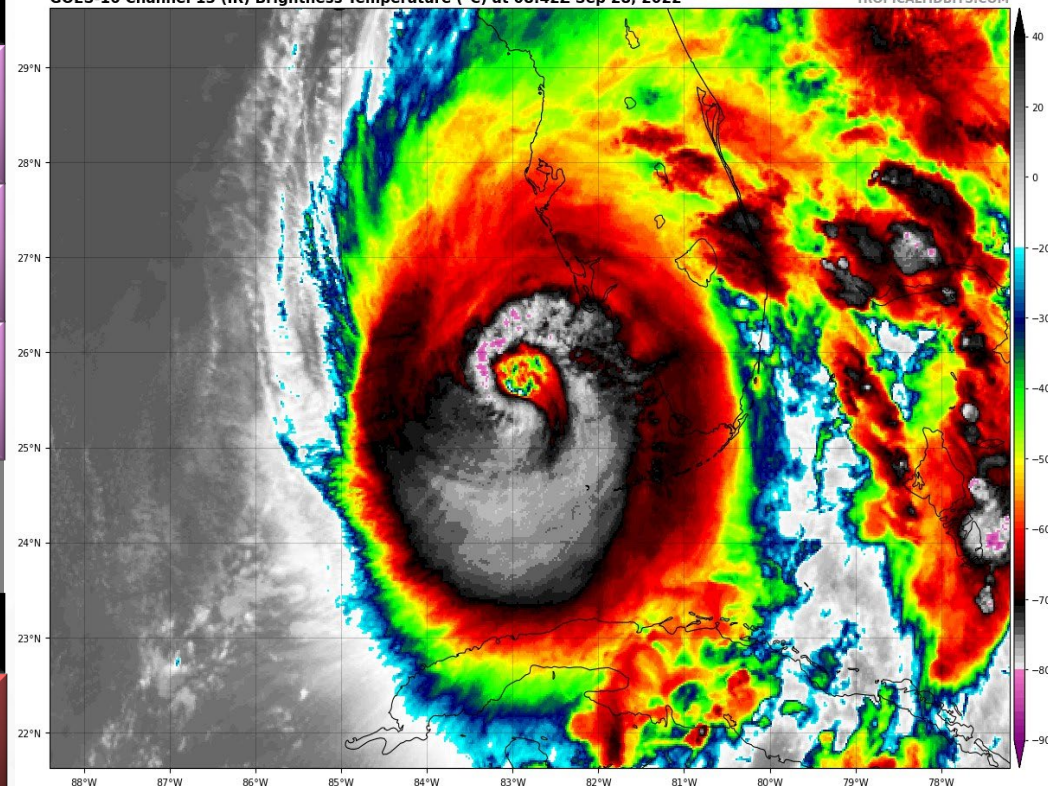
Major Hurricane Ian

5 AM 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 08:42Z Sep 28, 2022

TROPICALTIDBITS.COM



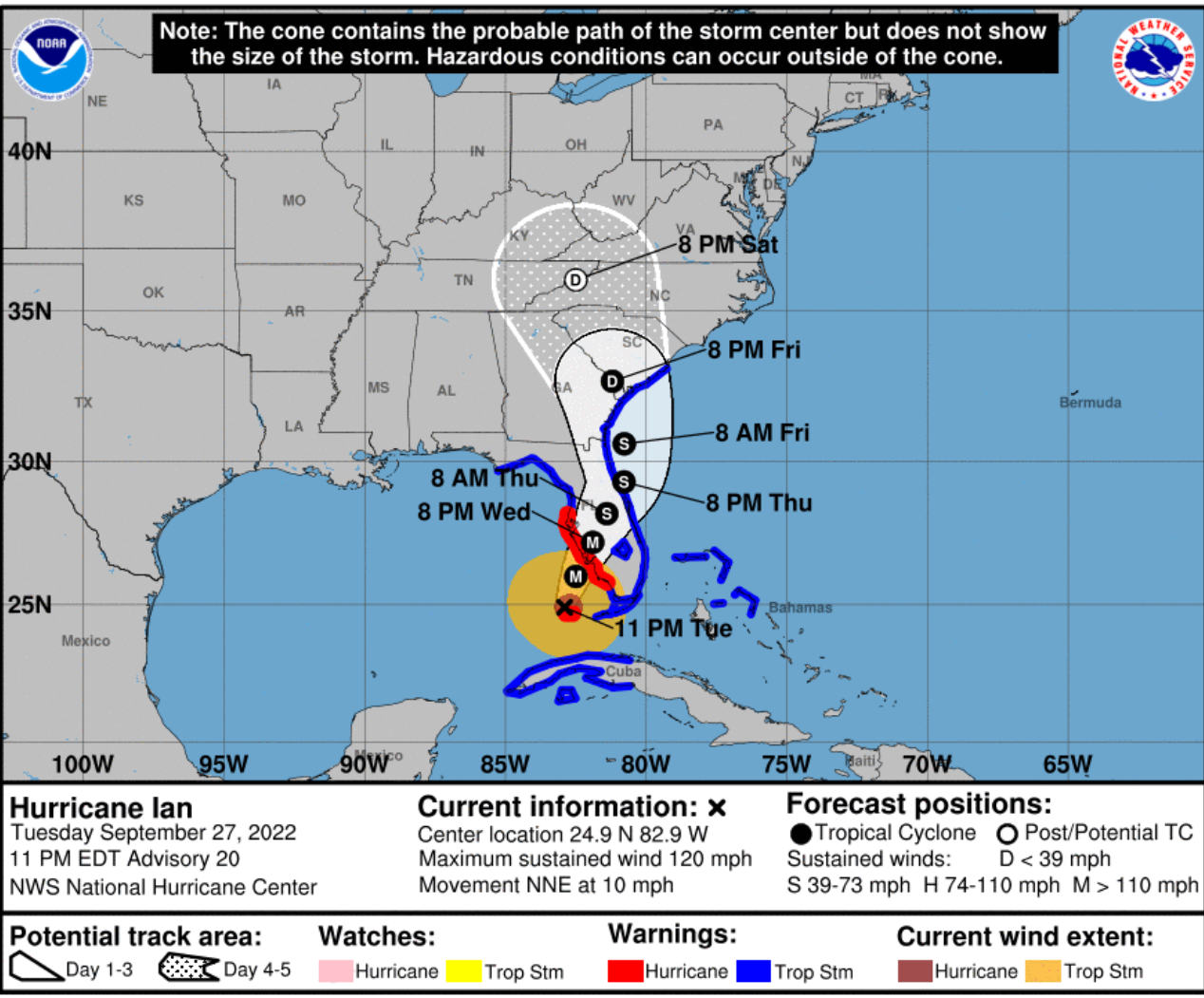
Overview/Recent Changes:

With the 5:00 AM Advisory, Major Hurricane Ian has strengthened into an extremely dangerous Category 4 hurricane, with maximum sustained winds of 140 mph. There is a high risk of life-threatening storm surge, catastrophic winds, and extensive flooding in the Florida Peninsula, along with an elevated threat for tornadoes.



Forecast Cone

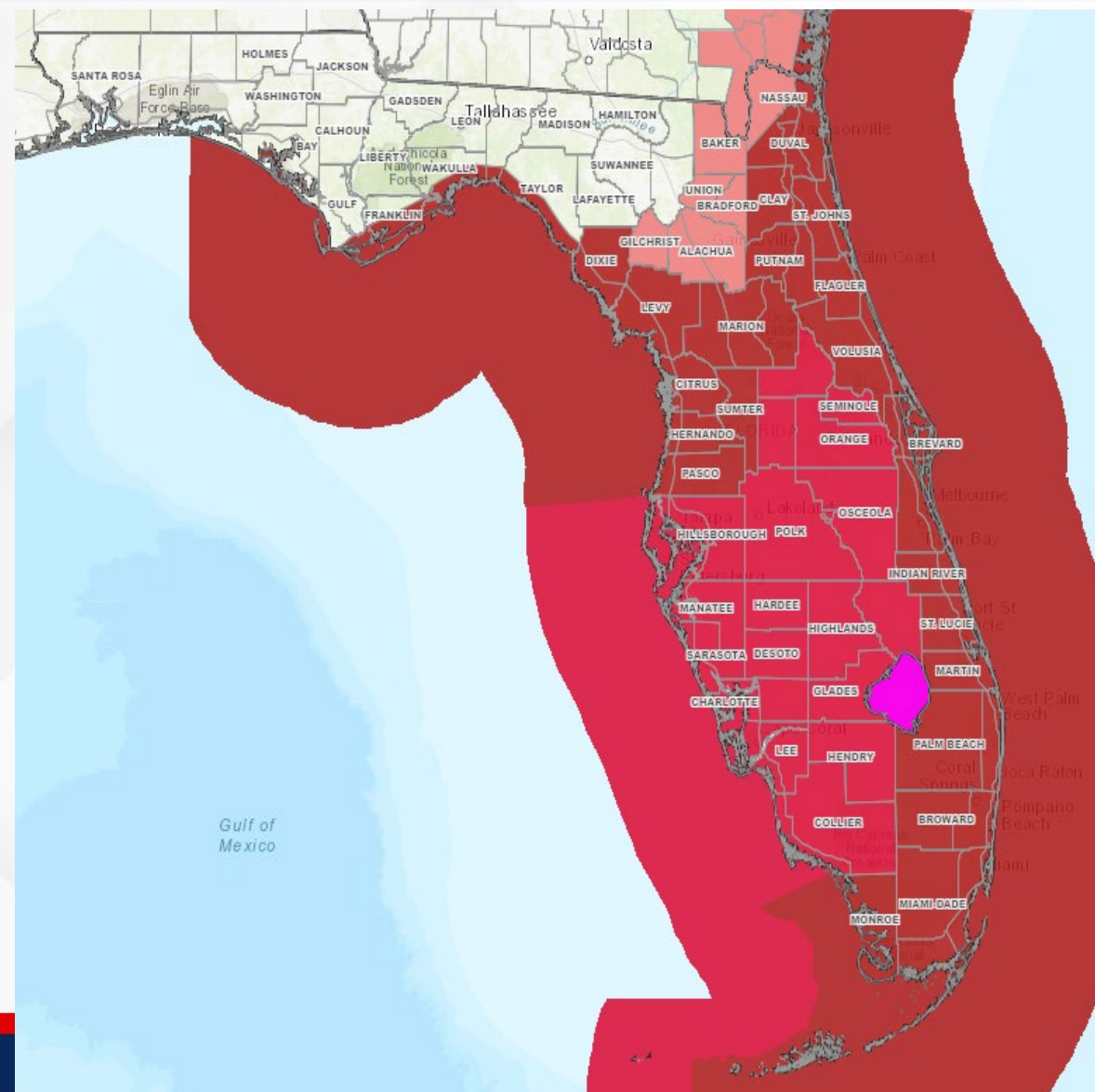
Major Hurricane Ian ([LINK](#))



- **Location:** 75 miles west-southwest of Naples, FL
 - **Maximum Sustained Winds:** 140 mph, Category 4
 - **Current Movement:** NNE at 10 mph
 - **FL Watches/Warnings:**
 - **Hurricane Warnings:** West Central Florida
 - **Tropical Storm Warnings:** Lower Keys, far SW FL, Central FL, Northeast FL
 - **Tropical Storm Watch:** Much of the eastern half of the Peninsula and the coastal Big Bend
- This general motion with a reduction in forward speed is forecast today, followed by a turn toward the north on Thursday. Ian is expected to approach the west coast of Florida within the hurricane warning area this morning, and move onshore later today. The center of Ian is forecast to move over central Florida tonight and Thursday morning, and emerge over the western Atlantic by late Thursday. Very recent data from an Air Force Reserve Hurricane Hunter aircraft indicate that the maximum sustained winds have increased, making Ian a Category 4 hurricane. Some fluctuations in intensity are possible before Ian reaches the coast of Florida as an extremely dangerous major hurricane. Weakening is expected after landfall.
- Hurricane-force winds extend outward up to 40 miles from the center, and tropical storm-force winds extend outward up to 175 miles.



Active Tropical Watches/Warnings



Hurricane Warning:

- Pinellas, Hillsborough, Manatee, Sarasota, Polk, Lake, Seminole, Orange, Osceola, Okeechobee, Hardee, Desoto, Charlotte, Lee, Collier, Hendry, Glades

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

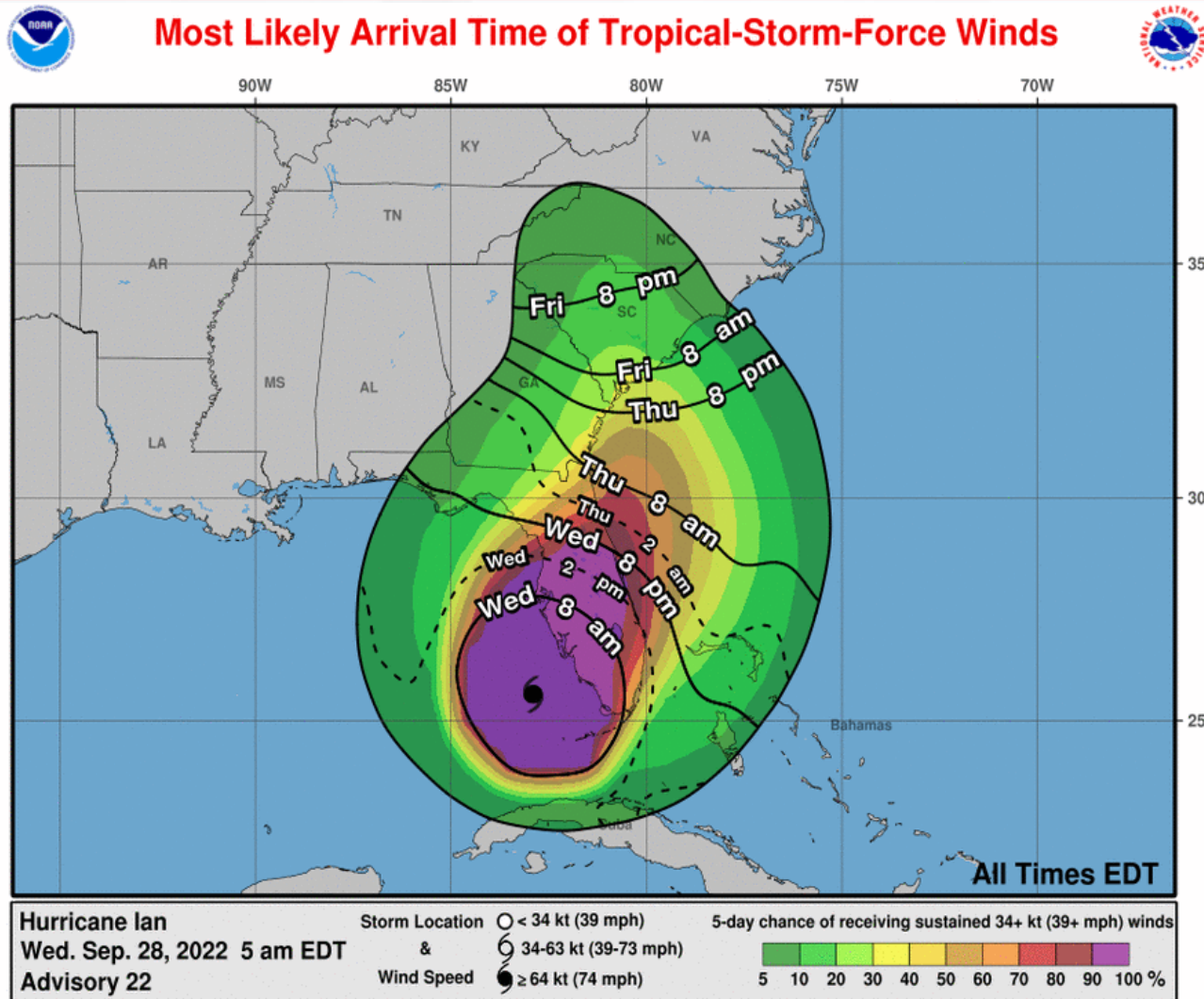
Tropical Storm Watch:

- Inland Nassau, Baker, Union, Bradford, Alachua, Gilchrist



Tropical Storm-Force Wind Probabilities

Major Hurricane Ian ([LINK](#))



Tropical storm-force winds will continue to spread from south to north over the southern Peninsula this morning. Tropical storm-force winds will most likely begin near the I-4 corridor this afternoon, expanding to the Space Coast this evening.

Tropical storm-force winds look to begin late tonight across Northeast Florida.



Key Messages

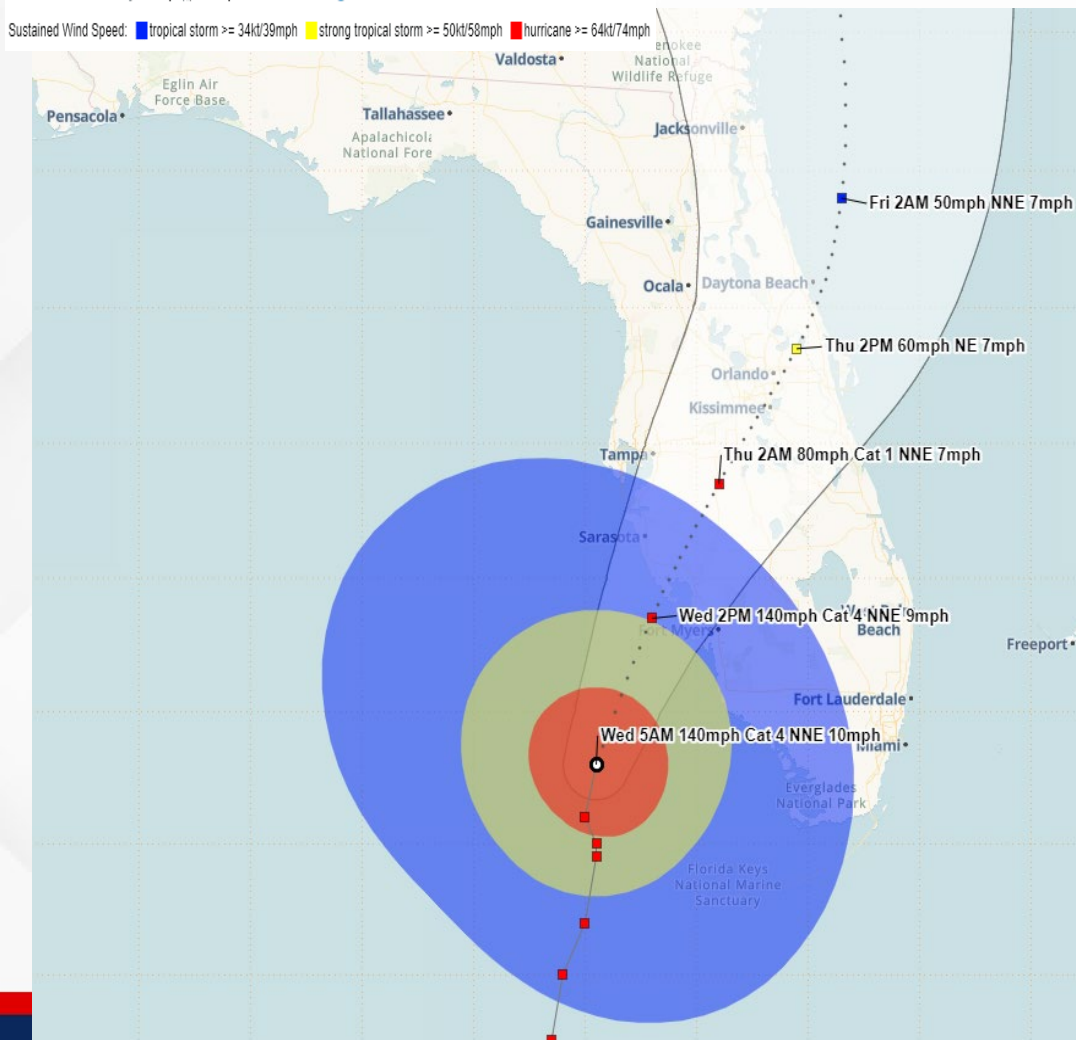
From the National Hurricane Center

HURRICANE IAN - Wednesday, September 28, 2022 5AM EDT Advisory #22

Center Location: 25.6 N 82.9 W Maximum Sustained Winds: 140 mph (Cat 4) Movement: 10 mph NNE

Potential Track Area: 1-3 day 4-5 day Wind Field: at current location

Sustained Wind Speed: tropical storm ≥ 34 kt/39mph strong tropical storm ≥ 50 kt/58mph hurricane ≥ 64 kt/74mph



Key Messages for Hurricane Ian

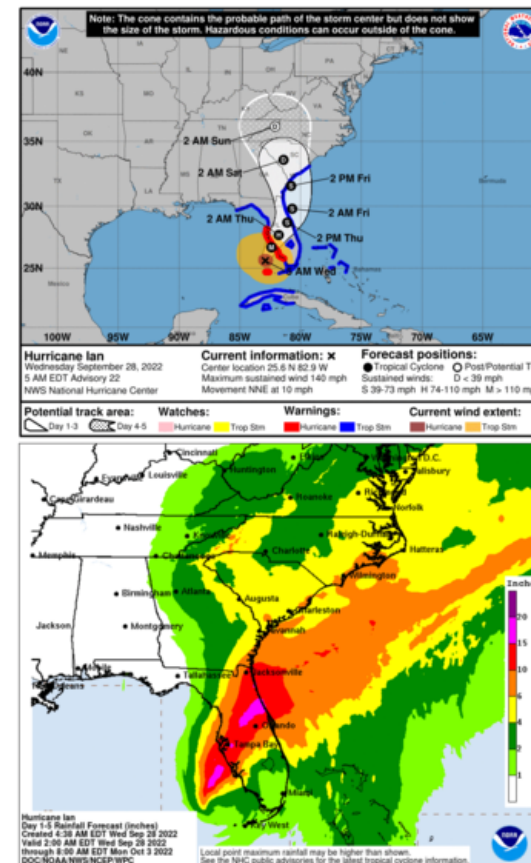
Advisory 22: 5:00 AM EDT Wed Sep 28, 2022



1. Life-threatening storm surge is expected along the Florida west coast and the Lower Florida Keys 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. Catastrophic wind damage is expected near the core of Ian when it moves onshore.

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



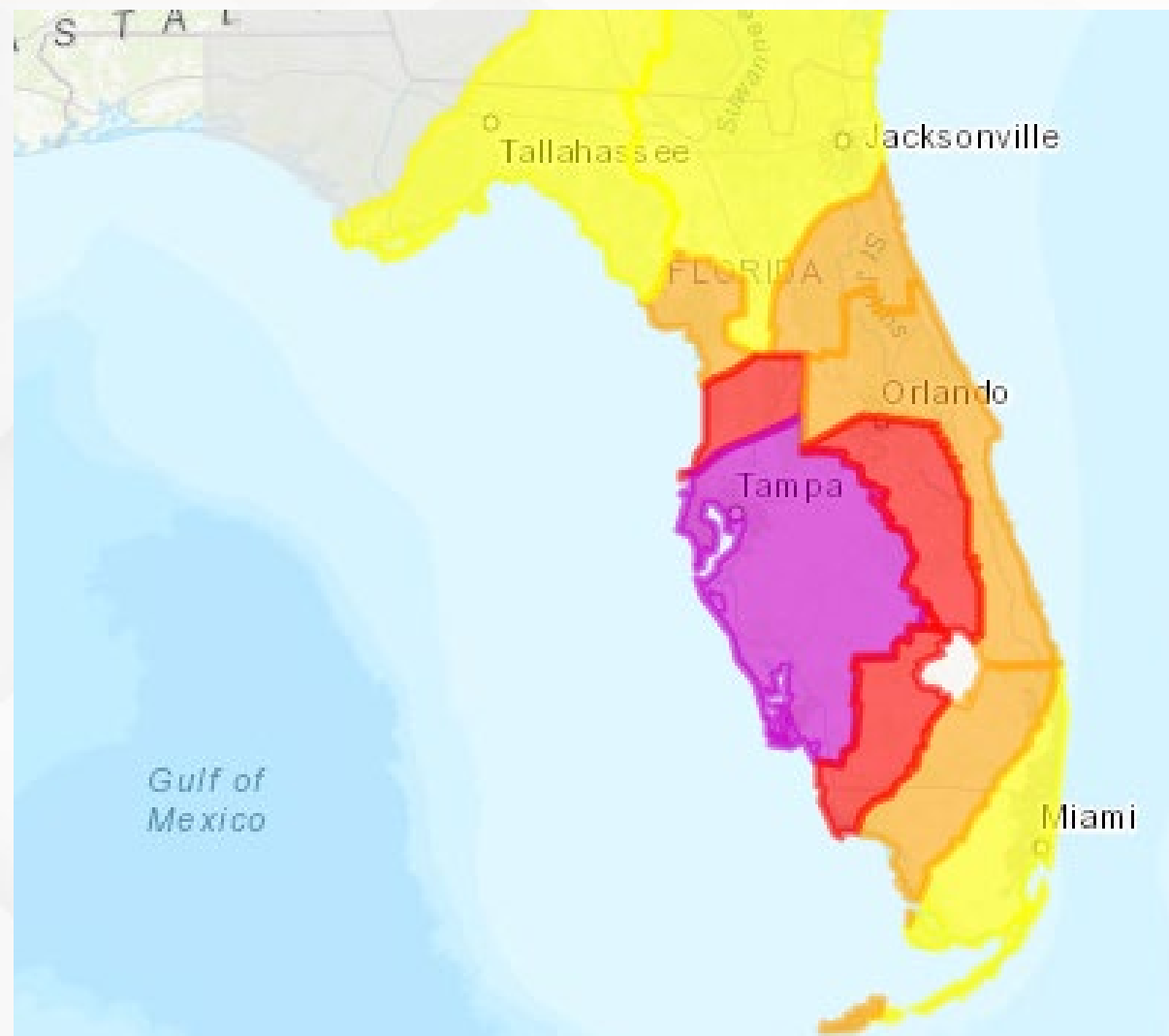
For more information go to hurricanes.gov

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Damaging Wind Threat Overview

Major Hurricane Ian



The greatest wind threat is mainly along the West Florida coastline. The potential for more damaging wind impacts have expanded inland over the western Peninsula, mainly east of Ian's landfall location.

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

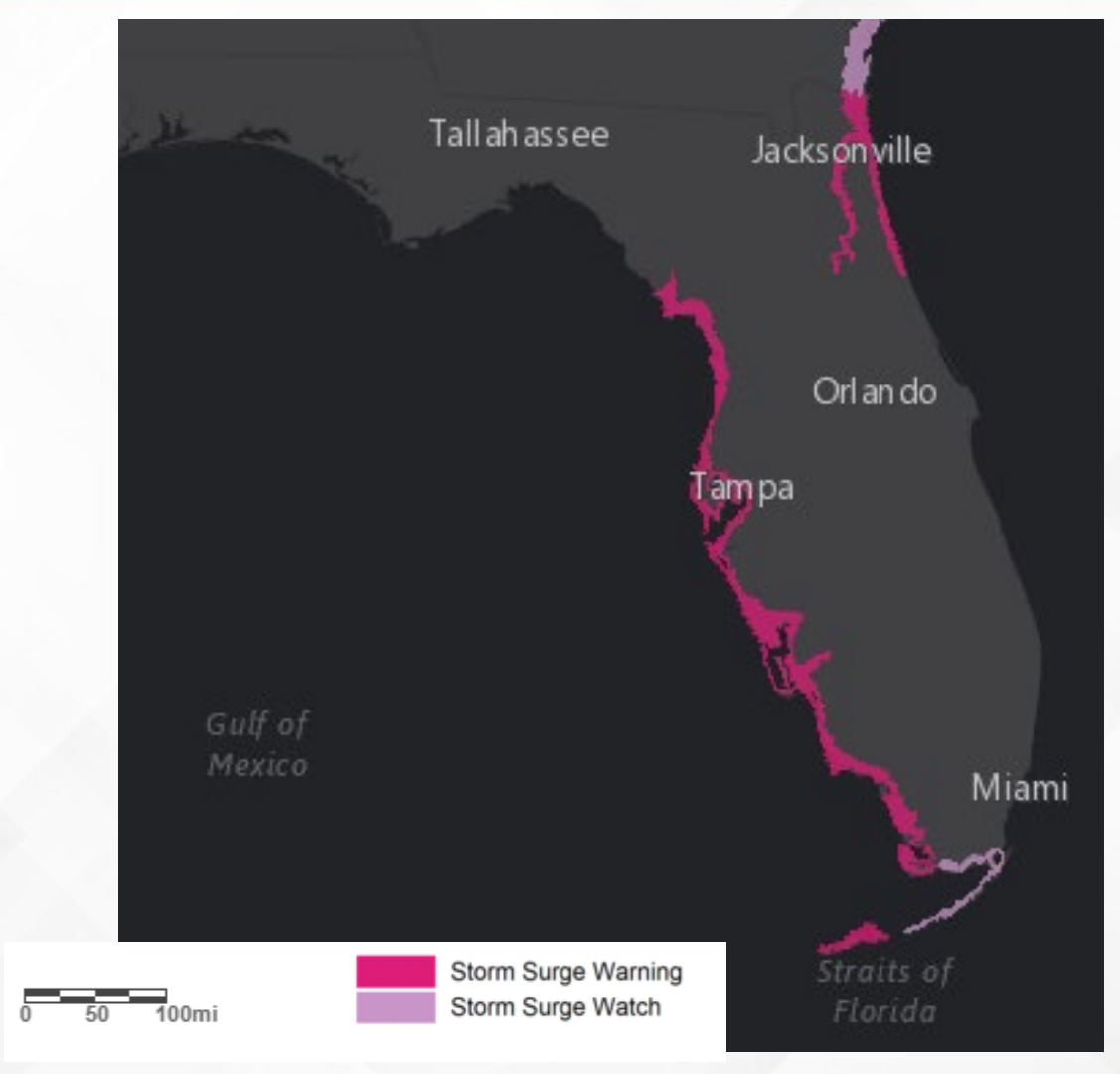
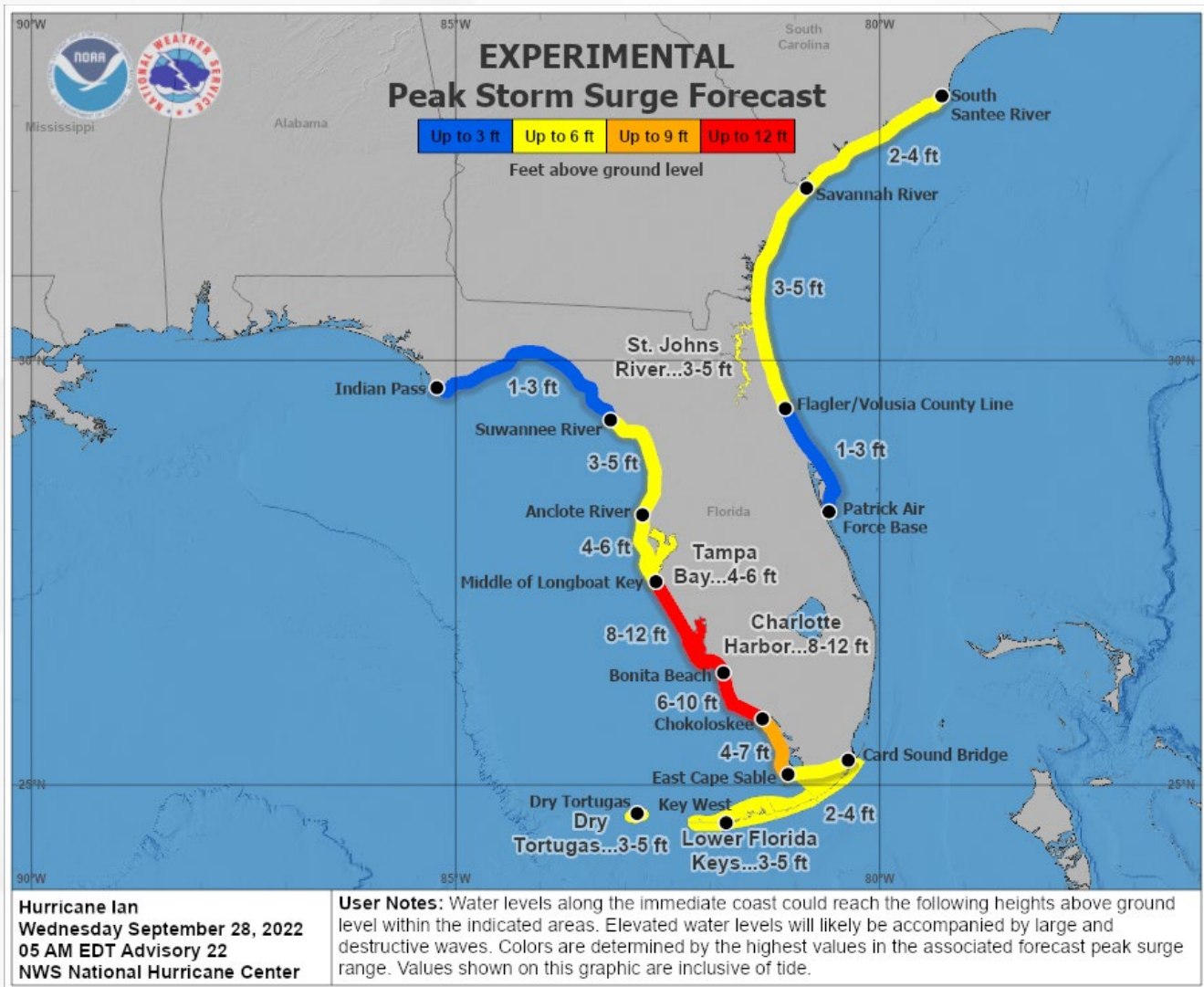
Click on "Threats and Impacts" Tab

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

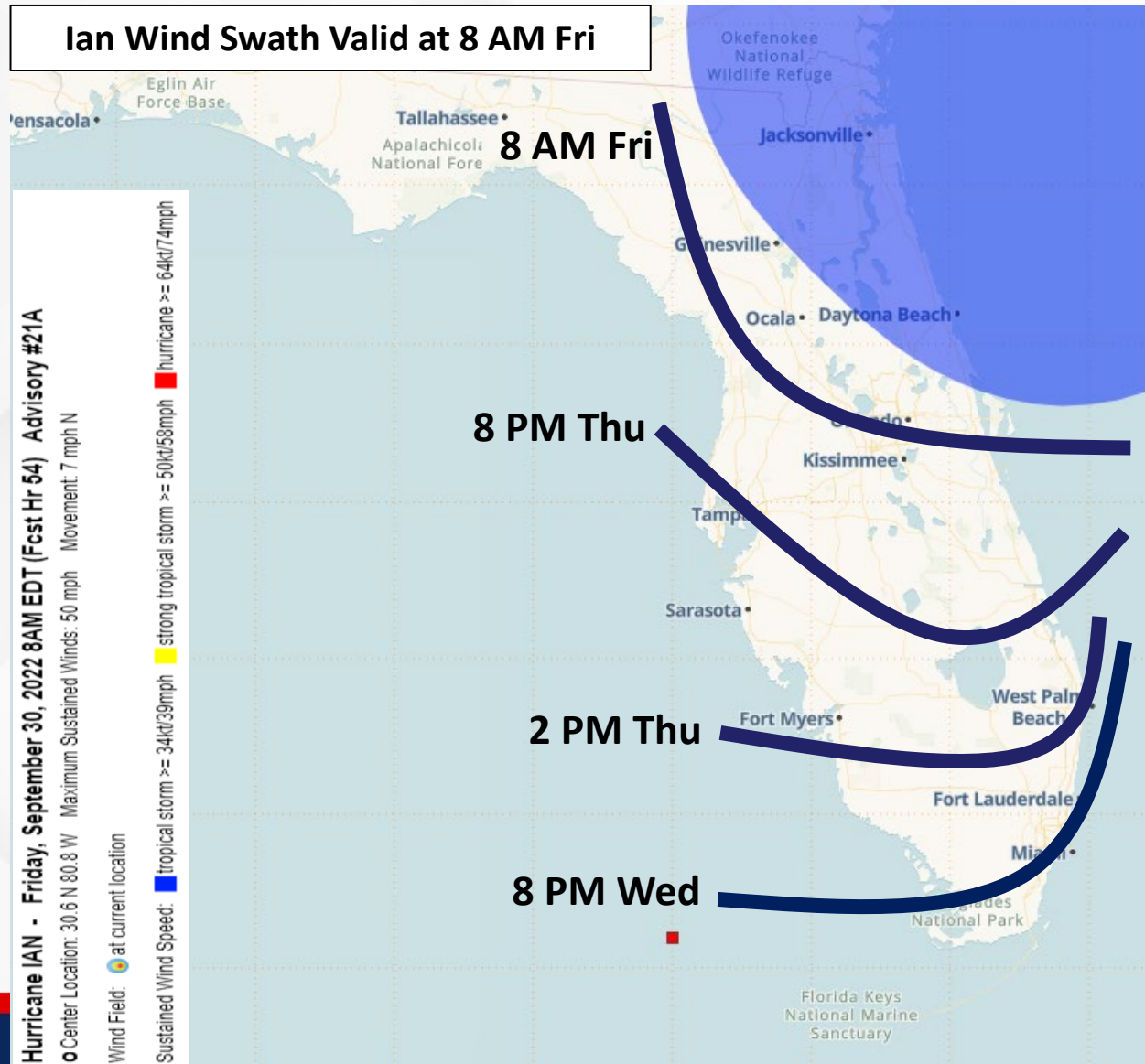




End Time of Tropical Storm-Force Winds

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.

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 Thursday morning.

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

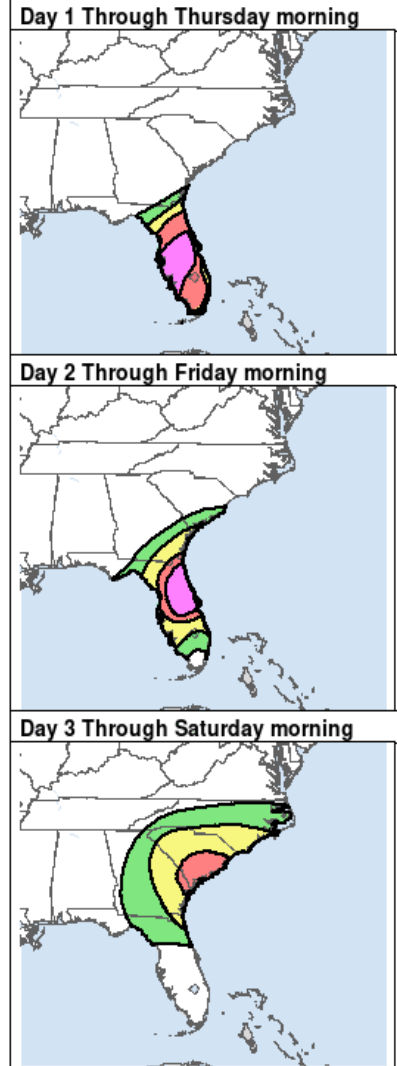
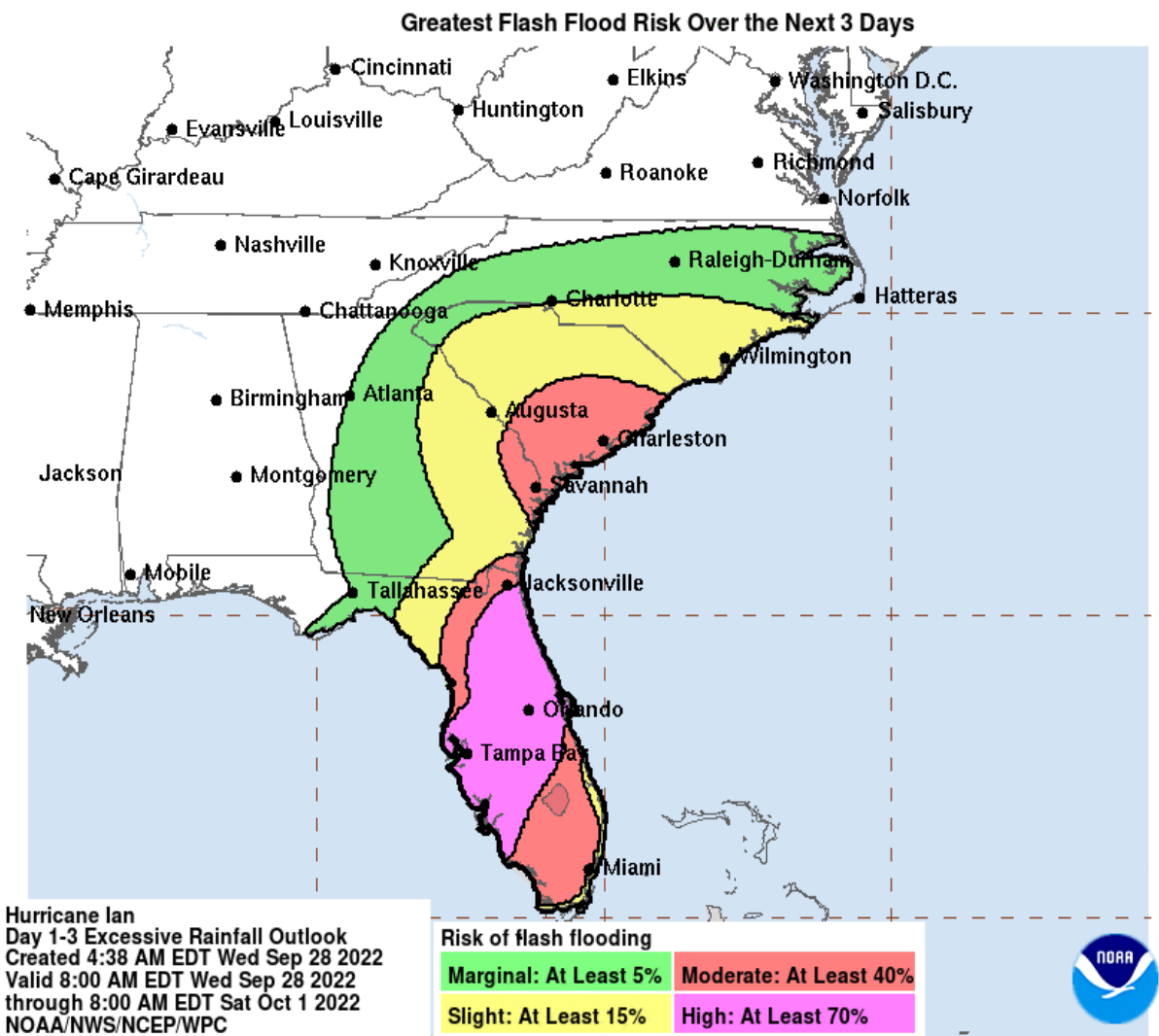


Flash Flood Outlooks

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





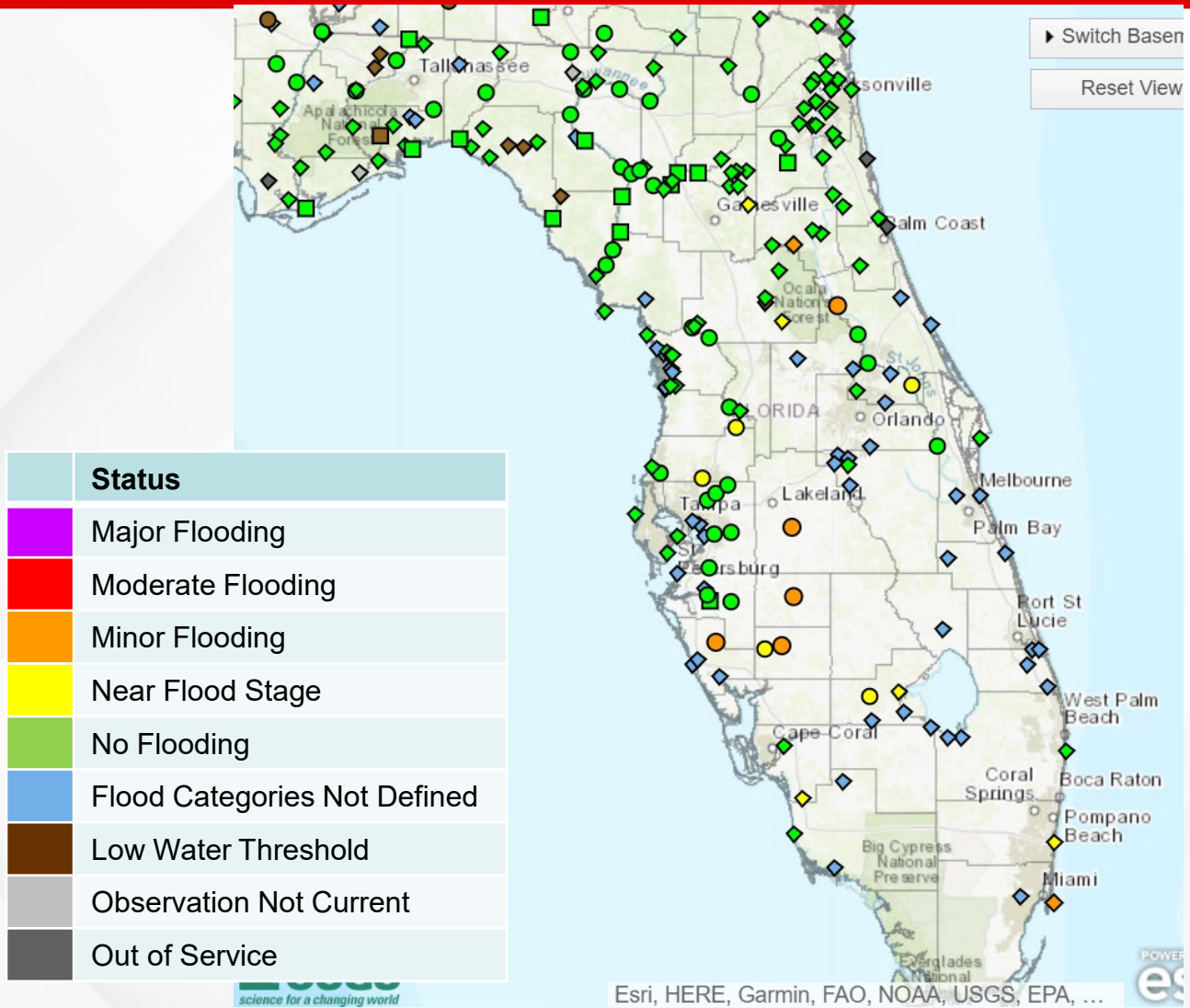
A map of Florida showing its 67 counties. The counties are labeled with their names in all caps. Major cities and towns are marked with dots and labeled. The map also shows the Gulf of Mexico to the west and south, and the Atlantic Ocean to the east. The state capital, Tallahassee, is located in the northwestern part of the state.

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Current River Observations

As of Wednesday Morning

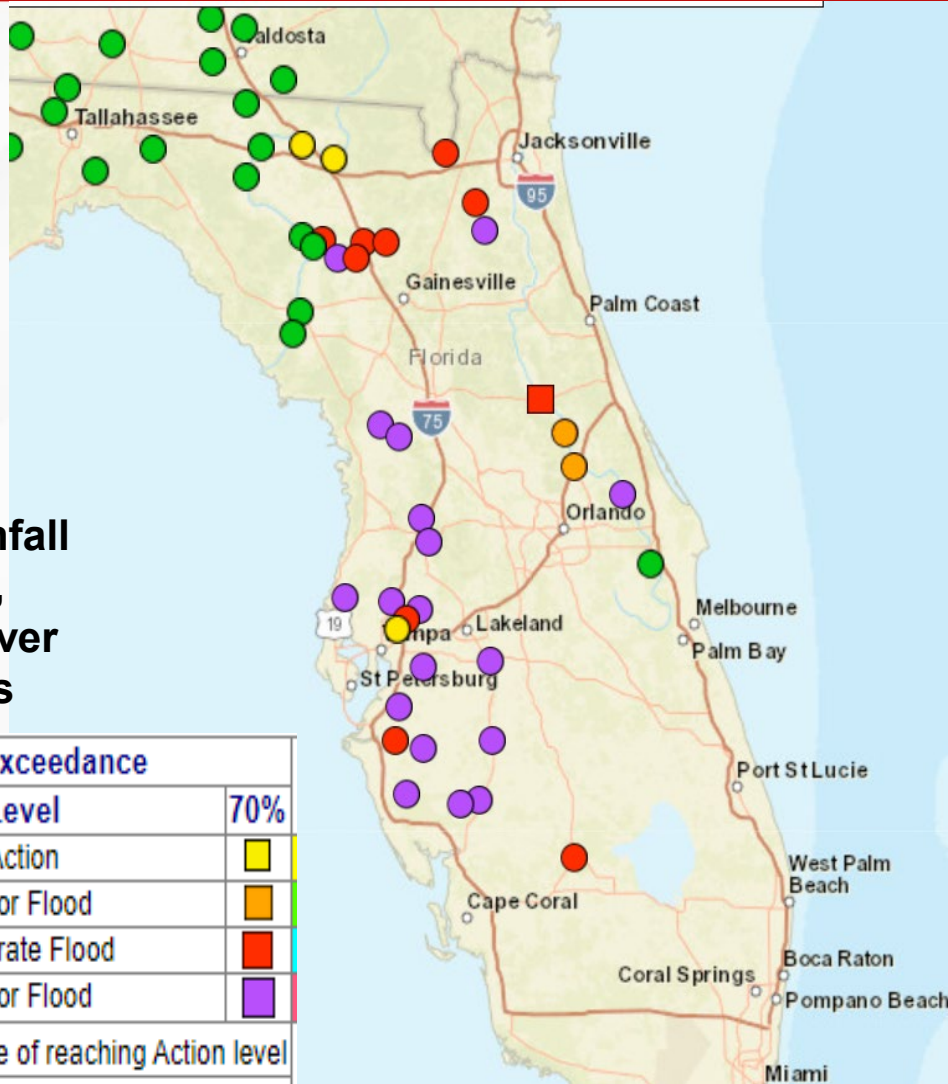


Minor riverine flooding continues on the Peace River, as well as Horse Creek and Myakka River in West Central Florida. Minor flooding is also still occurring on the St. Johns River at Astor as well as the Ocklawaha River in Northeast Florida. While these rivers are receding, the combination of additional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



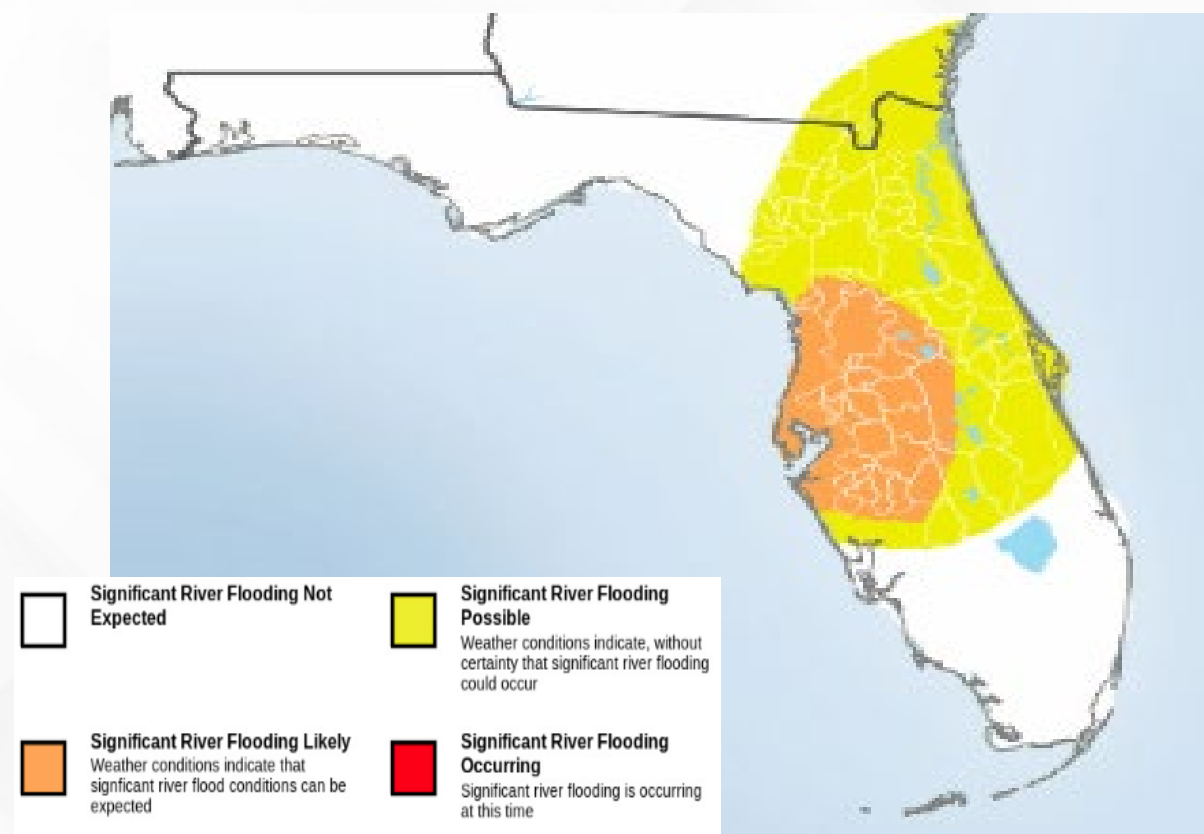
Possible River Flooding

Chance of River Flooding Based on Range of Forecast Rainfall



Based on rainfall modelling,
POSSIBLE river crest levels

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.

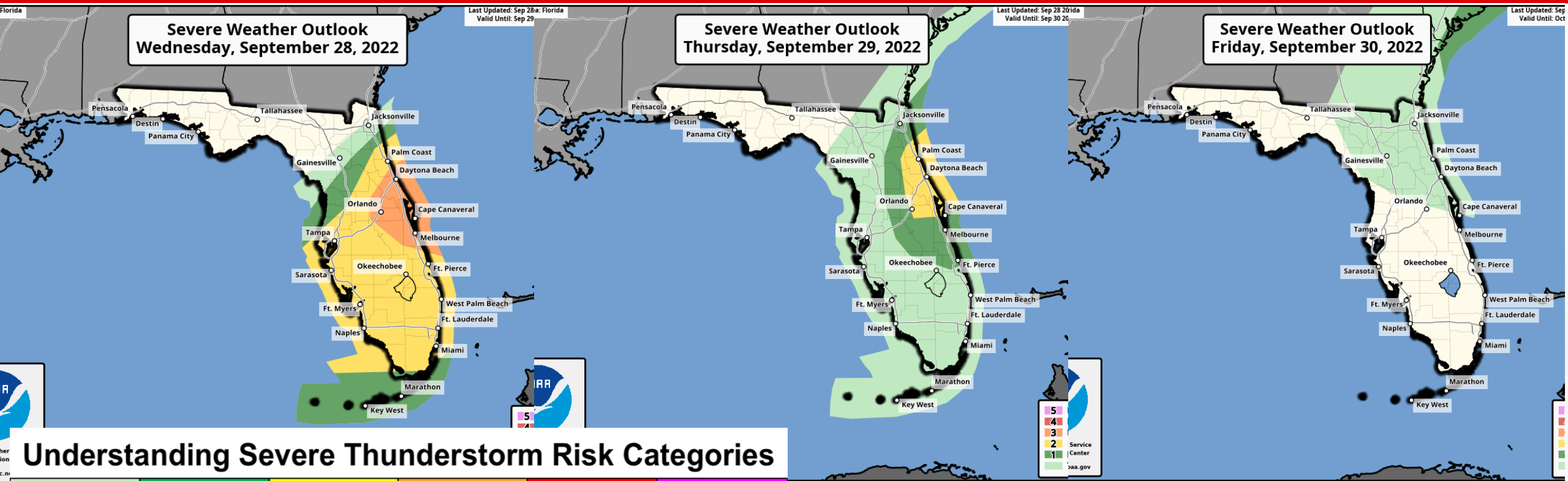


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Severe Weather Outlooks

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

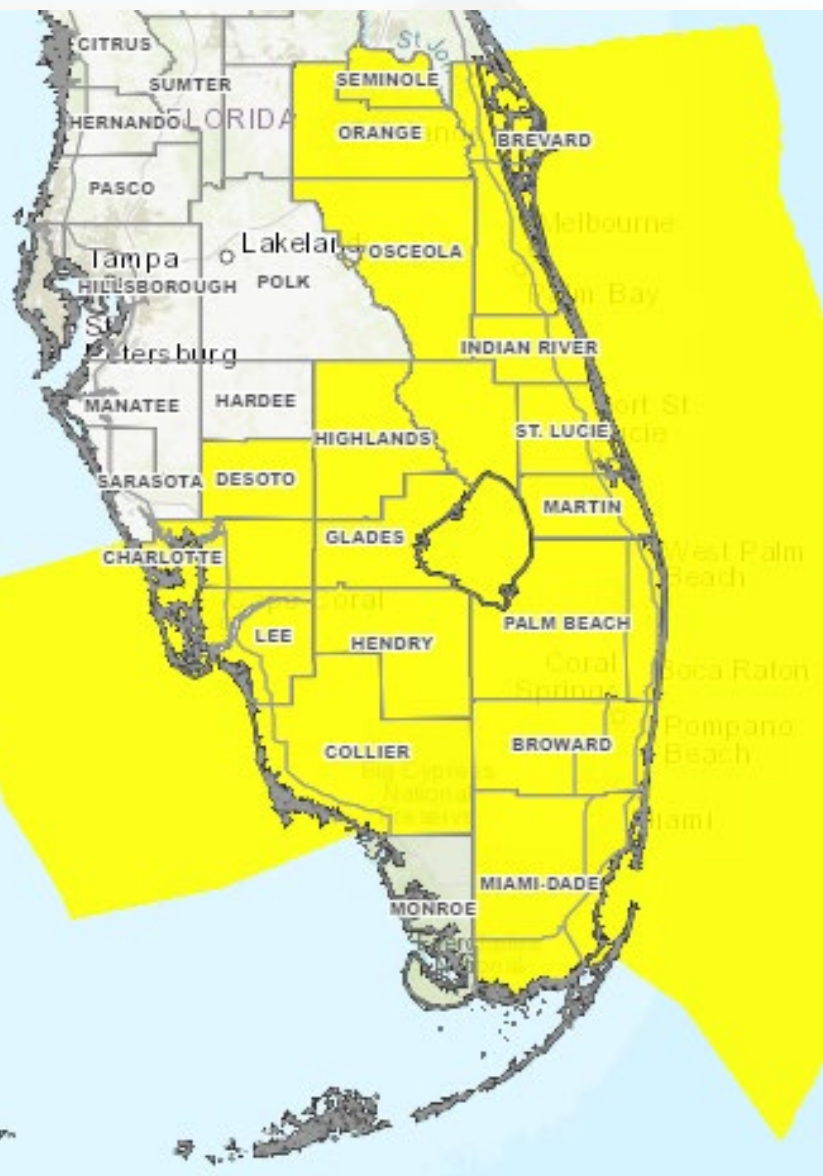
Embedded tornadoes will continue within Ian's outer rainbands across the Southern and Central Peninsula this morning, with the risk expanding northward through the day. An **Enhanced Risk (level 3 of 4)** has been introduced over the Space Coast where more numerous tornadic activity can be expected. Isolated tornadoes will continue along the Northeast Florida Coast Thursday, with the risk dissipating from southwest to northeast into Friday.

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Tornado Watch Until 5:00 PM Wed.

From the Storm Prediction Center



This Watch Impacts the Following Counties

BREVARD	HENDRY	OKEECHOBEE
BROWARD	HIGHLANDS	ORANGE
CHARLOTTE	INDIAN RIVER	OSCEOLA
COLLIER	LEE	PALM BEACH
DESOTO	MANATEE	POLK
GLADES	MARTIN	SARASOTA
HARDEE	MIAMI-DADE	SEMINOLE
ST. LUCIE		



Summary

Major Hurricane Ian:

- As of 5 AM EDT Wednesday, Ian is located about 75 miles west-southwest of Naples, Florida, and moving north-northeastward at 10 mph.
- Ian is expected to approach the west coast of Florida within the hurricane warning area this morning, and move onshore later today.
- The center of Ian is forecast to move over central Florida tonight and Thursday morning, and emerge over the western Atlantic by late Thursday.
- Very recent data from an Air Force Reserve Hurricane Hunter aircraft indicate that the maximum sustained winds have increased, making Ian a Category 4 hurricane.
- Some fluctuations in intensity are possible before Ian reaches the coast of Florida as an extremely dangerous major hurricane.

Florida Outlook:

- A **Hurricane Warning** is in effect for 19 Florida 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 are beginning along the Florida Keys and will continue to spread northward to Southwest Florida early Wednesday morning. 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.
- A **Tornado Watch** has been extended for the Central and Southern Peninsula through 5:00 PM EDT this evening.

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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