



# TROPICAL UPDATE



9:00 AM EDT

Wednesday, July 7, 2021

Tropical Storm Elsa

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).

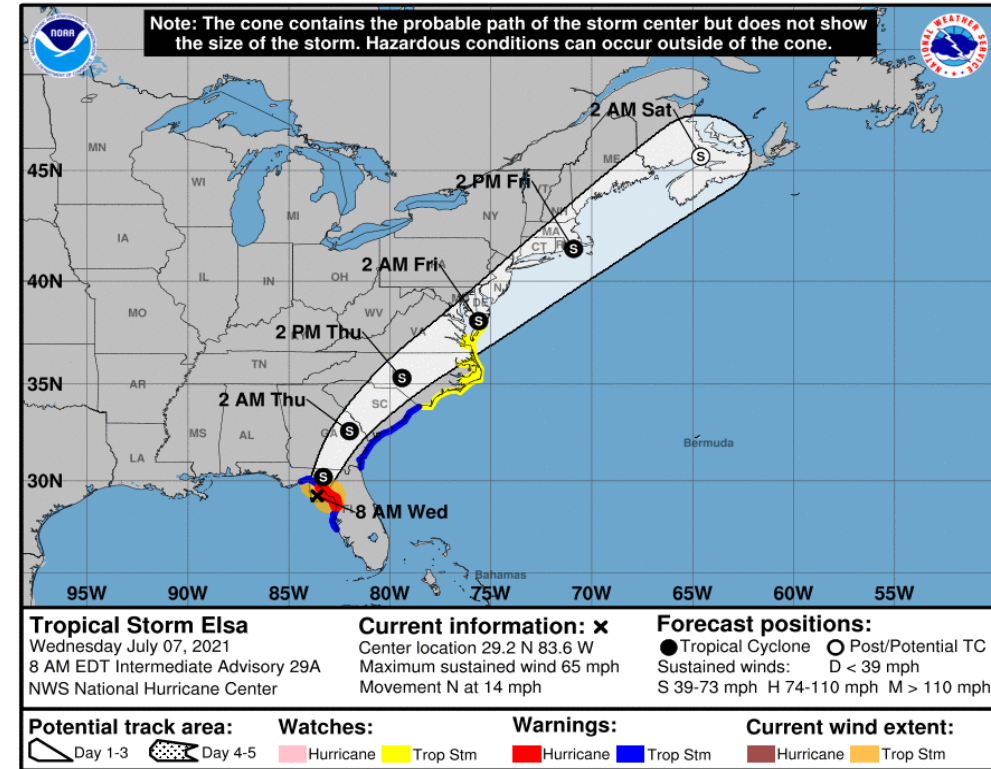


# Tropical Storm Elsa

8 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					

## National Hurricane Center Map



### Overview/Recent Changes: \*\*\*HURRICANE WARNINGS IN EFFECT FROM STEINHATCHEE TO CHASSAHOWITZKA\*\*\*

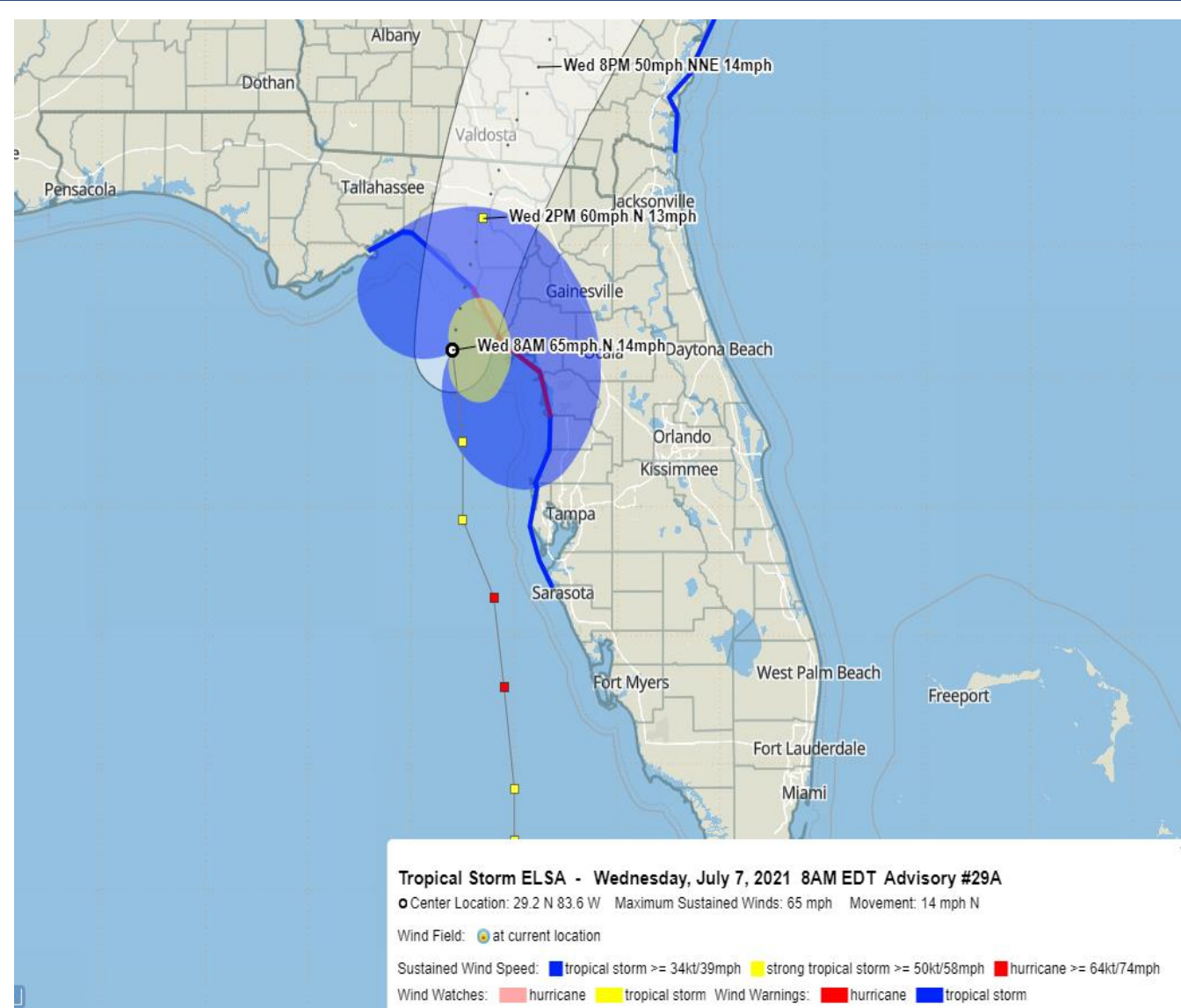
Elsa became a Category 1 hurricane overnight, but has weakened again to a strong tropical storm. Elsa is expected to landfall near Steinhatchee in Dixie County within the next few hours. Several rivers in North and West Central Florida are now expected to reach moderate flood stage over the next few days. Tropical Storm Warnings continue north of Charlotte County into the eastern Big Bend/Suwannee Valley. Elsa expected to exit the state this evening.



# Official Forecast Track – Elsa

From the National Hurricane Center – ([LINK](#))

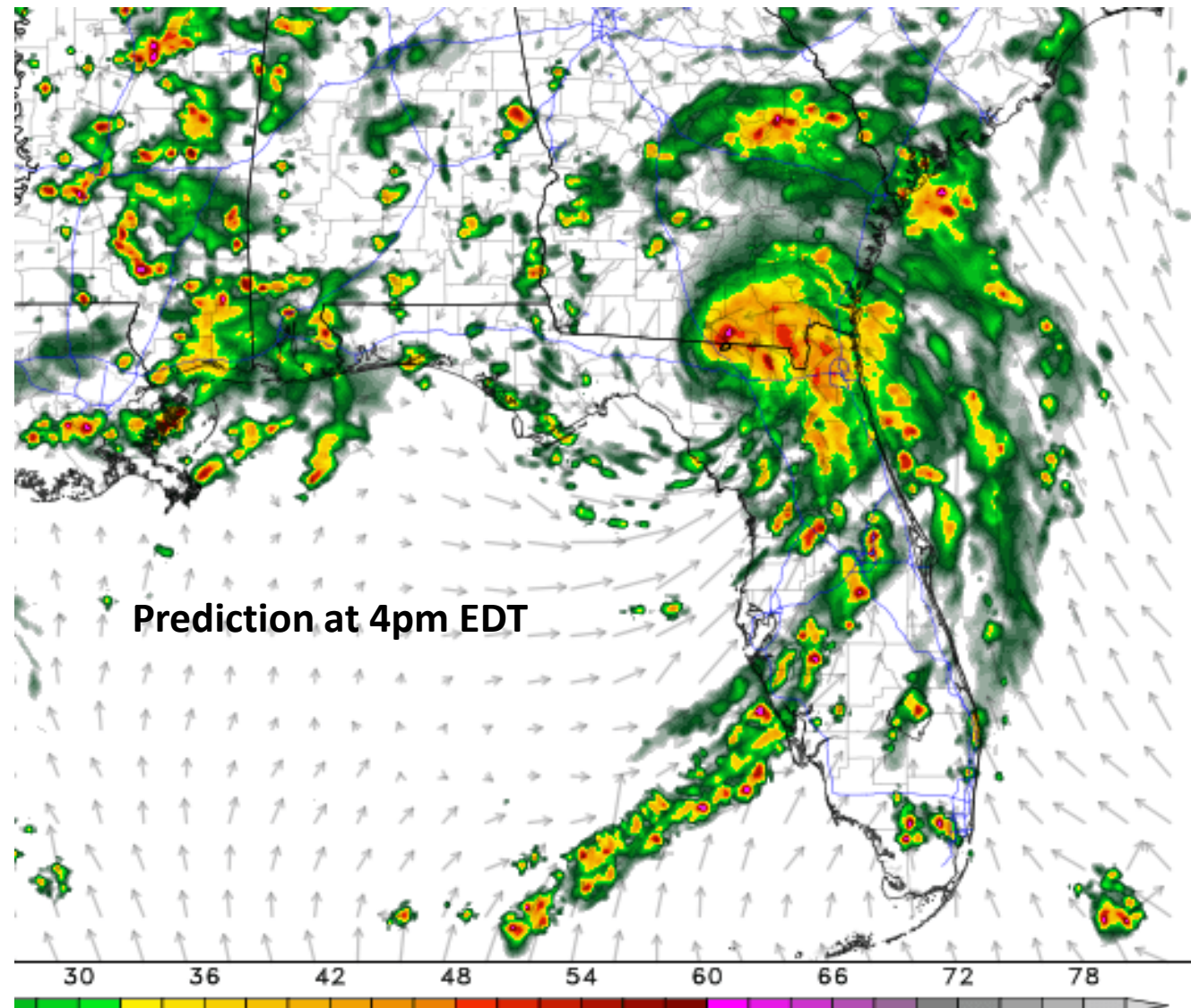
- The center of Elsa 35 miles west of Cedar Key, and moving to the north at 14 mph.
- Elsa remains a tropical storm with maximum sustained winds near 65 mph.
- Elsa will continue moving north or north-northeast today and then northeast tonight after it exits the state.
- Trailing strong rain bands are expected to continue to affect portions of Central and South Florida through this afternoon and portions of North Florida until around midnight.





# Current and Forecast Florida Radar

As of 8:05 AM ET





# Damaging Wind Threat Overview

## Tropical Storm Elsa

The greatest wind threat is along the immediate coast of the Big Bend and Nature Coast where gusts of 60-70 mph are possible.

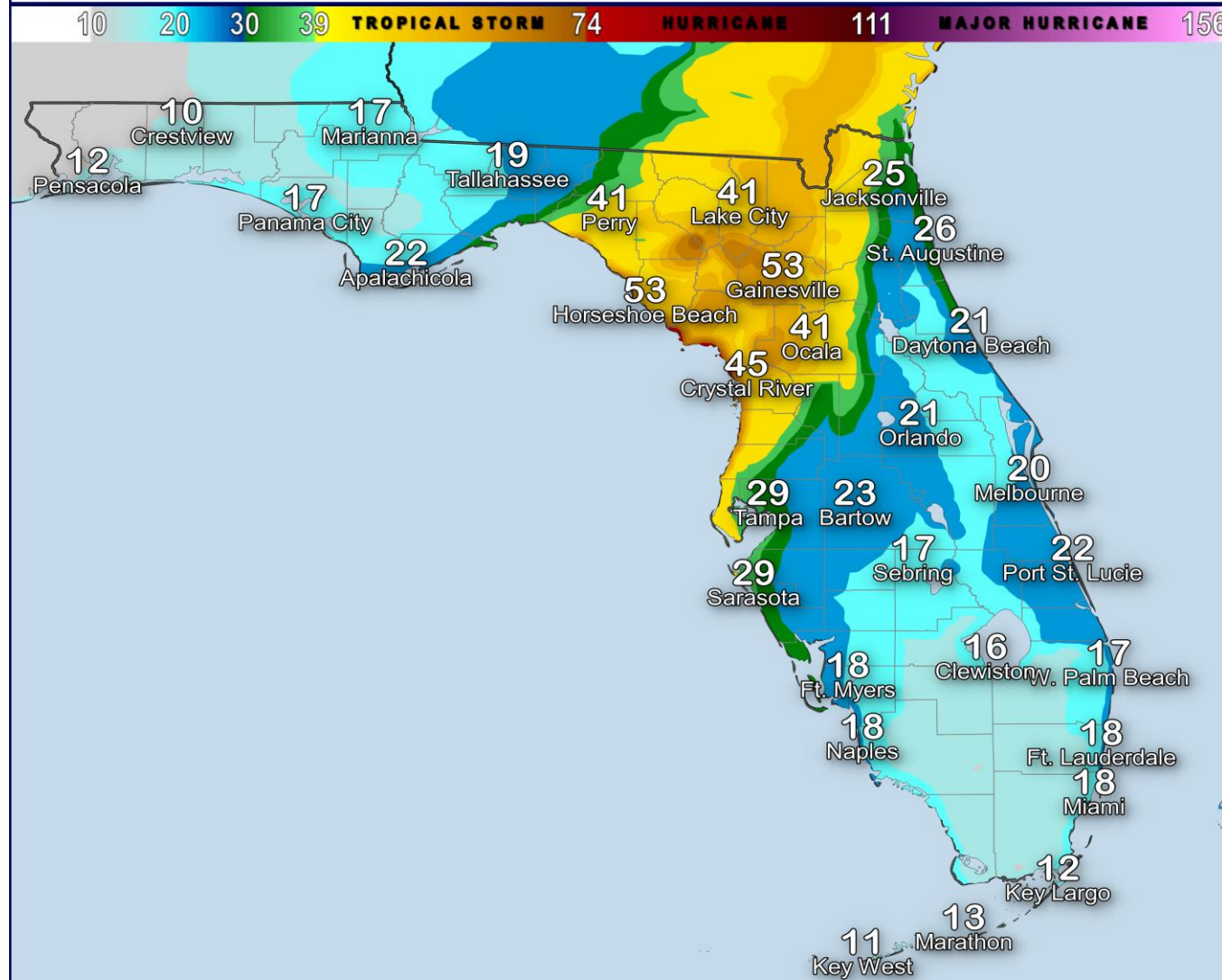
Inland Northeast Florida could see winds of 35-45 mph with gusts up of 60 mph.

Other locations could see wind gusts of 20-30mph, primarily in the outer bands.



### Maximum Wind Gusts: Wednesday

Created by FDEM State Meteorological Support Unit || Data from NWS, US Census Bureau, Natural Earth





# Wind Watches and Warnings

In Effect Until Further Notice

## Hurricane Warnings:

- Coastal Dixie, coastal Levy, coastal Citrus

## Tropical Storm Warnings:

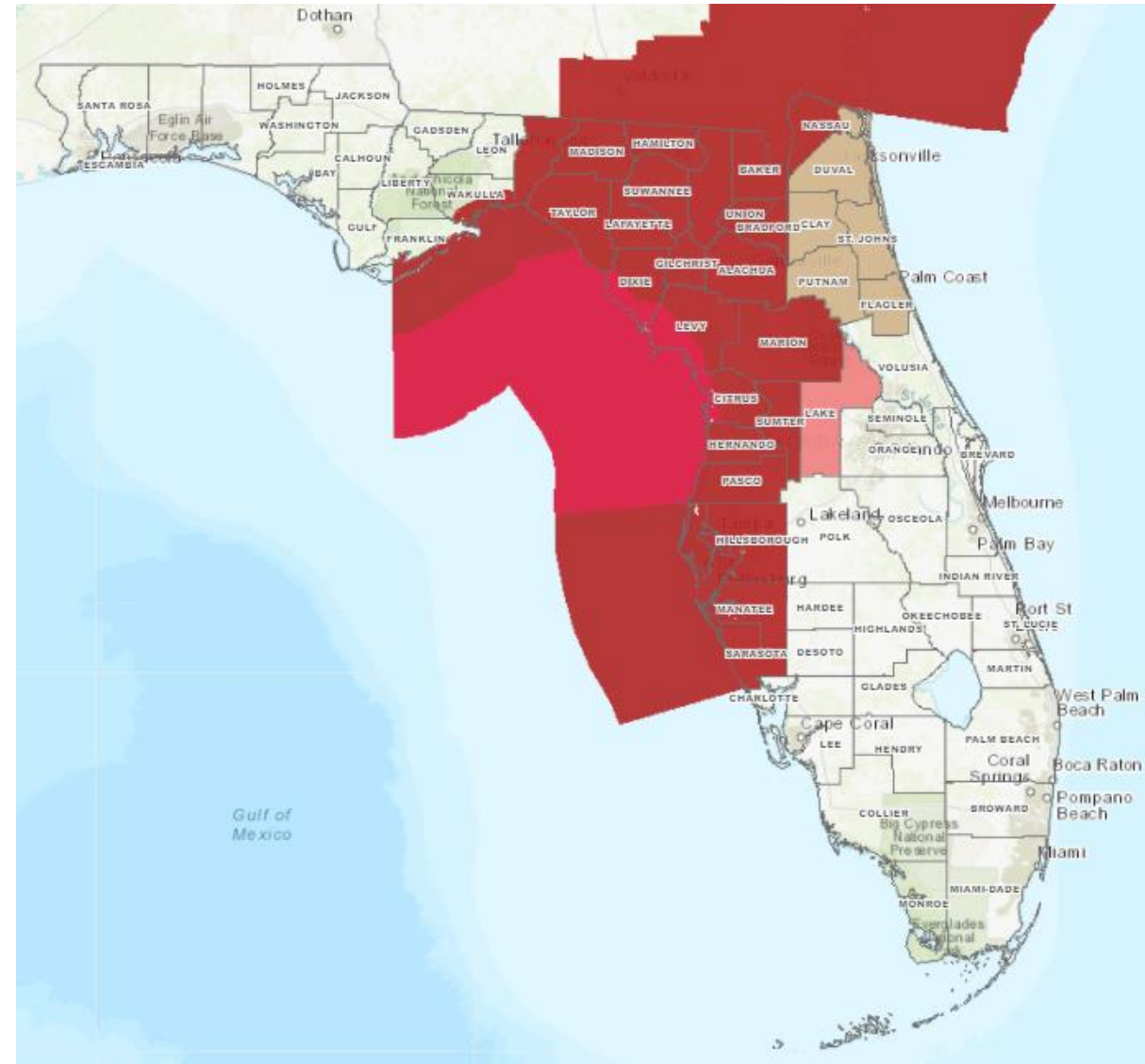
- Sarasota, Manatee, Hillsborough, Pinellas, Pasco, Hernando, inland Citrus, inland Levy, Sumter, Marion, inland Dixie, Taylor, Jefferson, coastal Wakulla, Madison, Hamilton, Suwannee, Lafayette, Gilchrist, Alachua, Columbia, Baker, Union, Bradford, inland Nassau

## Tropical Storm Watches:

- Lake

## Wind Advisories: (gusts of 30-40 mph)

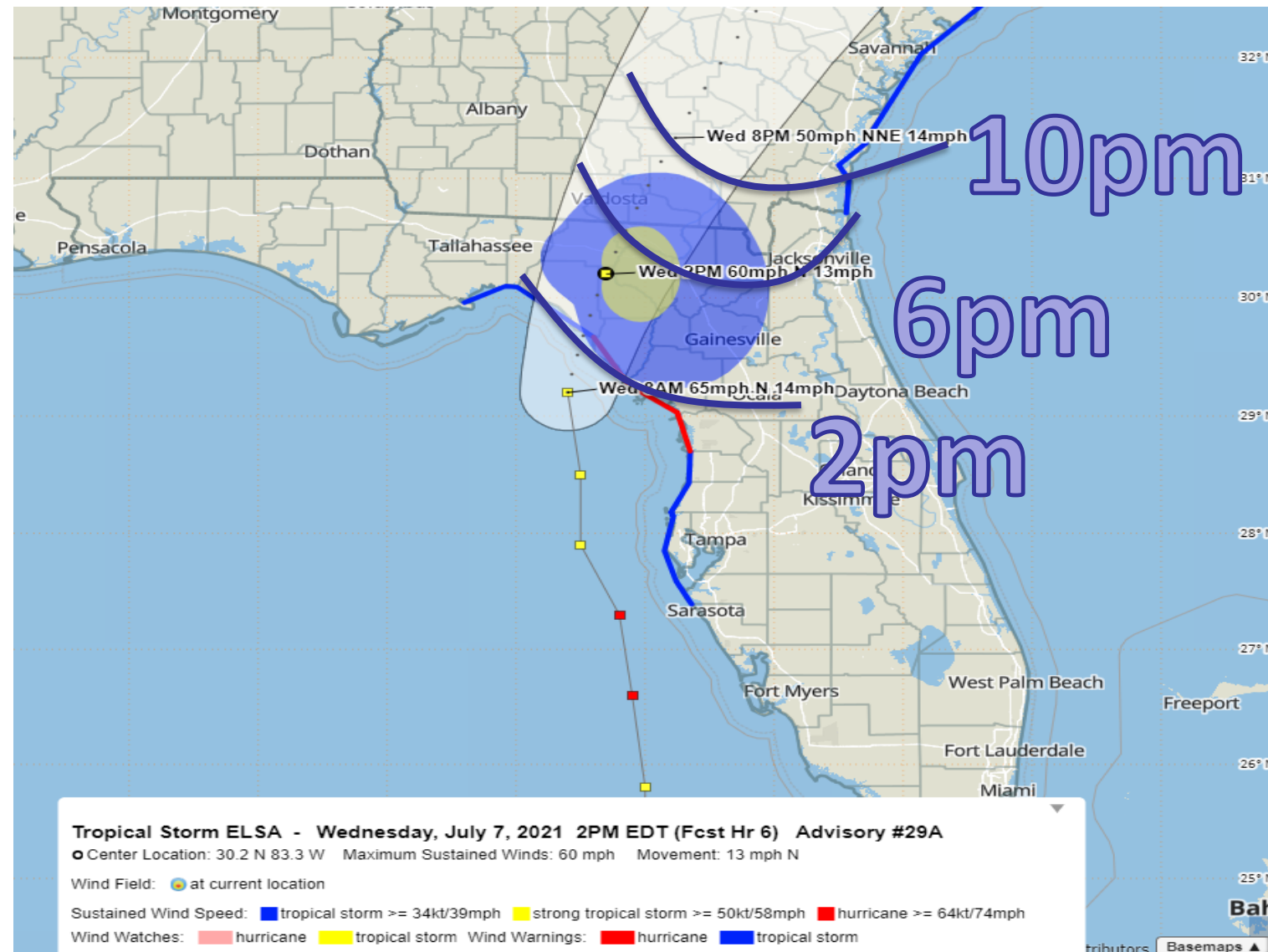
- Coastal Nassau, Duval, Clay, St. Johns, Putnam, Flagler





# Time of Wind Departure

Based on current forecast – Periodic gusts in trailing bands possible through tonight



Reports Overview

Deterministic Wind Timing

ELSA #29A

07/07/2021, 8:00 am

The purpose of the wind timing table is to show when specific wind thresholds are expected to be exceeded at a particular location.

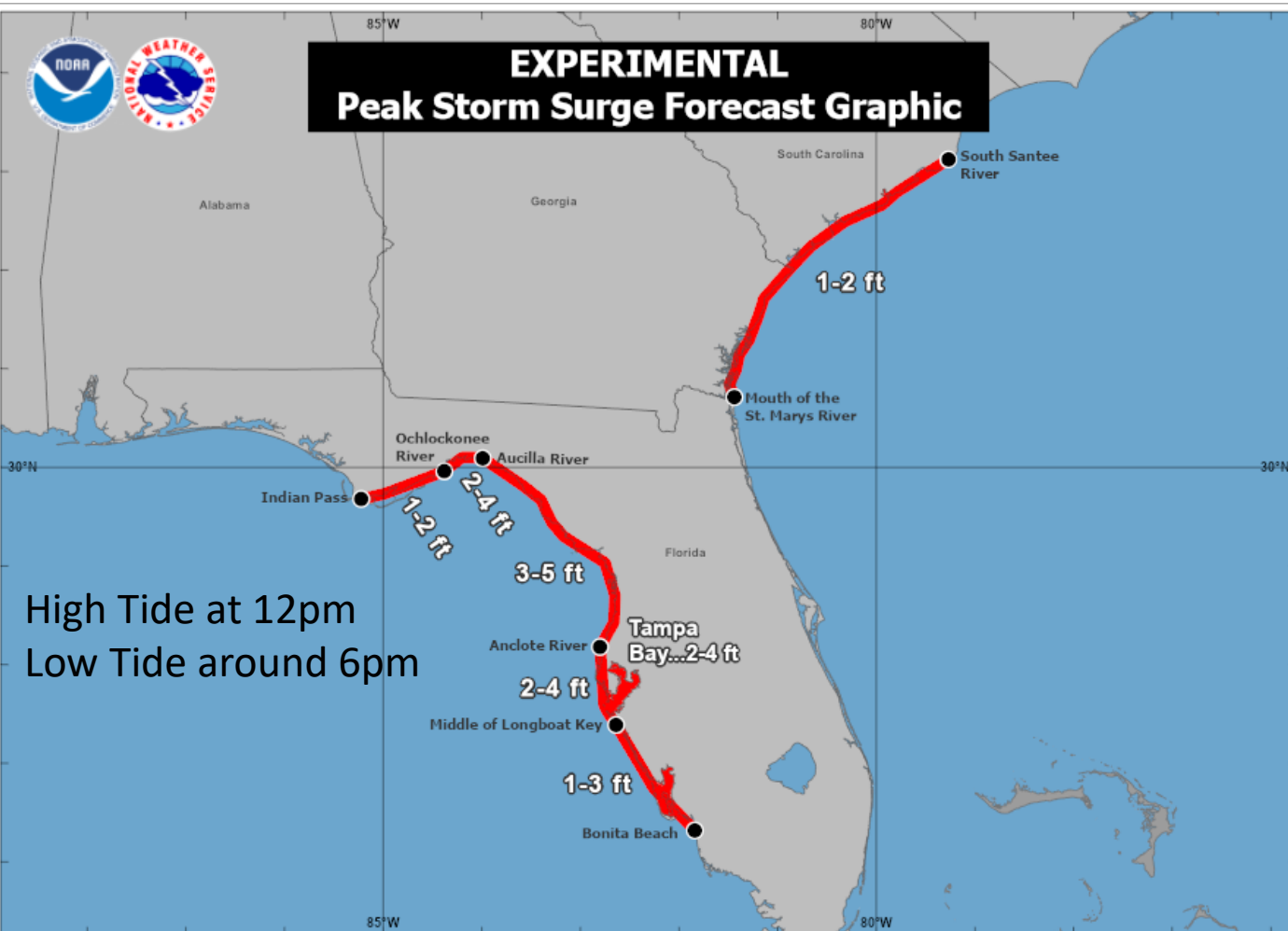
Displaying data in FL for: Counties

Location			Tropical Storm (34kt/39mph)		Strong TS (50kt/58mph)	
TY...	TITLE	ST	Start(hrs)	End(hrs)	Start(hrs)	End(hrs)
County	Alachua	FL	07/07 7am(2)	07/07 6pm(13)	n/a	n/a
County	Baker	FL	07/07 11am(6)	07/07 9pm(16)	n/a	n/a
County	Bradford	FL	07/07 11am(6)	07/07 6pm(13)	n/a	n/a
County	Citrus	FL	Existing	07/07 1pm(8)	n/a	n/a
County	Clay	FL	07/07 3pm(10)	07/07 6pm(13)	n/a	n/a
County	Columbia	FL	07/07 9am(4)	07/07 9pm(16)	07/07 2pm(9)	07/07 3pm(10)
County	Dixie	FL	Existing	07/07 5pm(12)	07/07 8am(3)	07/07 3pm(10)
County	Duval	FL	07/07 3pm(10)	07/07 6pm(13)	n/a	n/a
County	Gilchrist	FL	07/07 6am(1)	07/07 6pm(13)	07/07 11am(6)	07/07 2pm(9)
County	Hamilton	FL	07/07 10am(5)	07/07 9pm(16)	07/07 1pm(8)	07/07 3pm(10)
County	Hernando	FL	Existing	07/07 12pm(7)	n/a	n/a
County	Hillsborough	FL	Existing	07/07 9am(4)	n/a	n/a
County	Jefferson	FL	07/07 11am(6)	07/07 5pm(12)	n/a	n/a
County	Lafayette	FL	07/07 7am(2)	07/07 6pm(13)	07/07 11am(6)	07/07 3pm(10)
County	Levy	FL	Existing	07/07 4pm(11)	07/07 8am(3)	07/07 1pm(8)
County	Madison	FL	07/07 10am(5)	07/07 7pm(14)	07/07 1pm(8)	07/07 3pm(10)
County	Manatee	FL	Existing	07/07 6am(1)	n/a	n/a
County	Marion	FL	Existing	07/07 3pm(10)	n/a	n/a
County	Nassau	FL	07/07 3pm(10)	07/07 10pm(17)	n/a	n/a
County	Pasco	FL	Existing	07/07 10am(5)	n/a	n/a
County	Pinellas	FL	Existing	07/07 9am(4)	n/a	n/a
County	Polk	FL	Existing	07/07 6am(1)	n/a	n/a
County	Sumter	FL	Existing	07/07 12pm(7)	n/a	n/a
County	Suwannee	FL	07/07 8am(3)	07/07 7pm(14)	07/07 12pm(7)	07/07 3pm(10)
County	Taylor	FL	07/07 6am(1)	07/07 5pm(12)	07/07 10am(5)	07/07 3pm(10)
County	Union	FL	07/07 10am(5)	07/07 7pm(14)	n/a	n/a



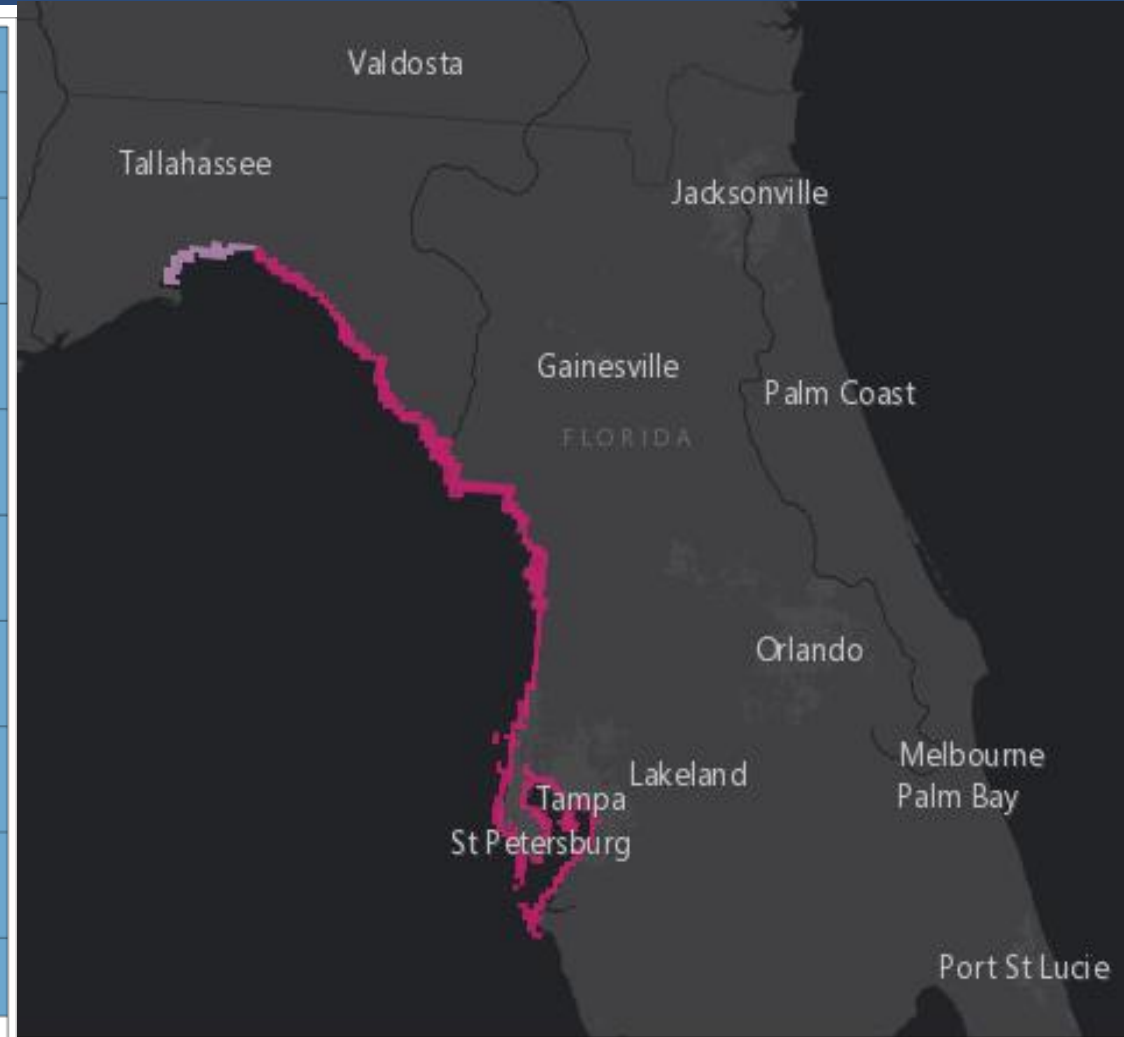
# Surge Watches and Warnings



In Effect Until Further Notice



**Tropical Storm Elsa**  
**Wednesday July 07, 2021**  
**08 AM EDT Advisory 29A**  
**NWS National Hurricane Center**

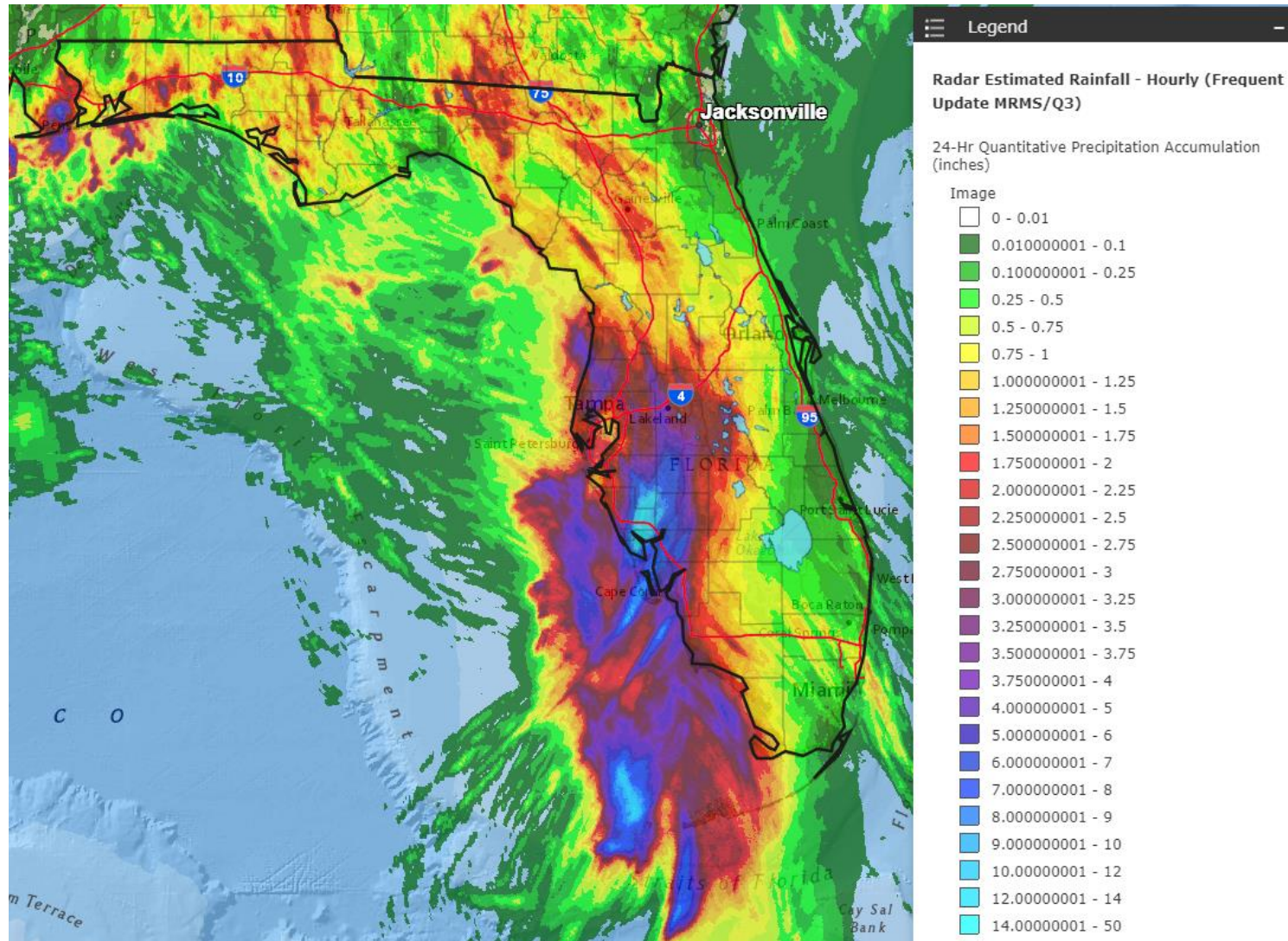
The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere within the indicated areas if the peak surge occurs at the time of high tide. The deepest water will occur along the immediate coast near the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances.



 Storm Surge Warning  
 Storm Surge Watch



# Rainfall Accumulation Past 24 Hours



- Widespread 2-4" observed over Southwest and West Central Florida
- Locally higher amounts up to 10" estimated from Lee County to Manatee County
- 1-3" so far across northern Florida



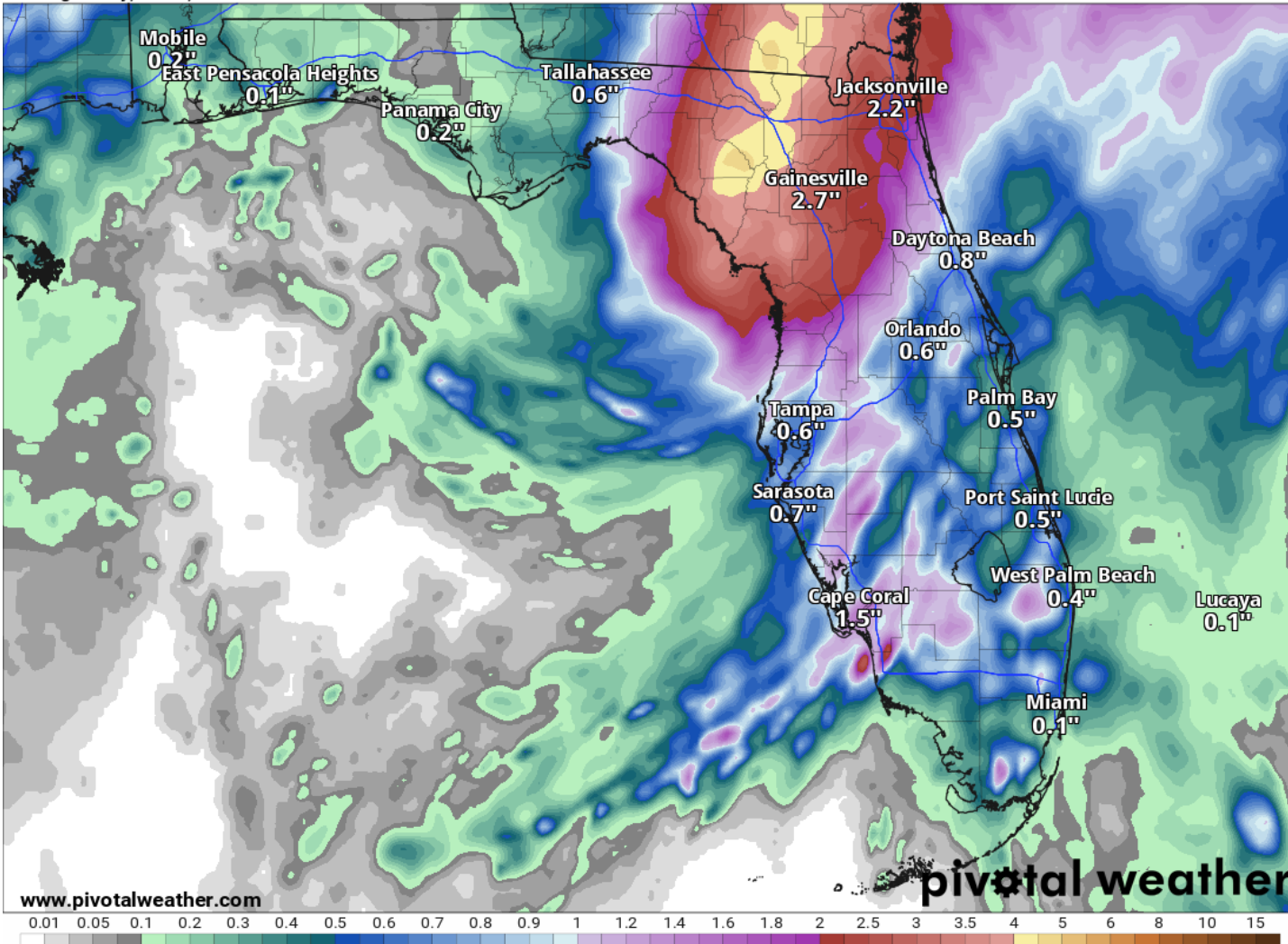
# Rainfall Totals Next 48 Hours

Ending 8 AM ET Friday

48-Hour Precipitation (in)

Ending Friday, Jul. 9, 2021 at 8 a.m. EDT

Init: Wed 2021-07-07 12z WPC



Through the next 48 hours, additional rainfall totals of 2-4" are expected across Northeast Florida, Suwannee Valley and eastern Big Bend with localized totals of 6-8" possible.

Rainfall totals will be less south of I-4 around 0.5-2".








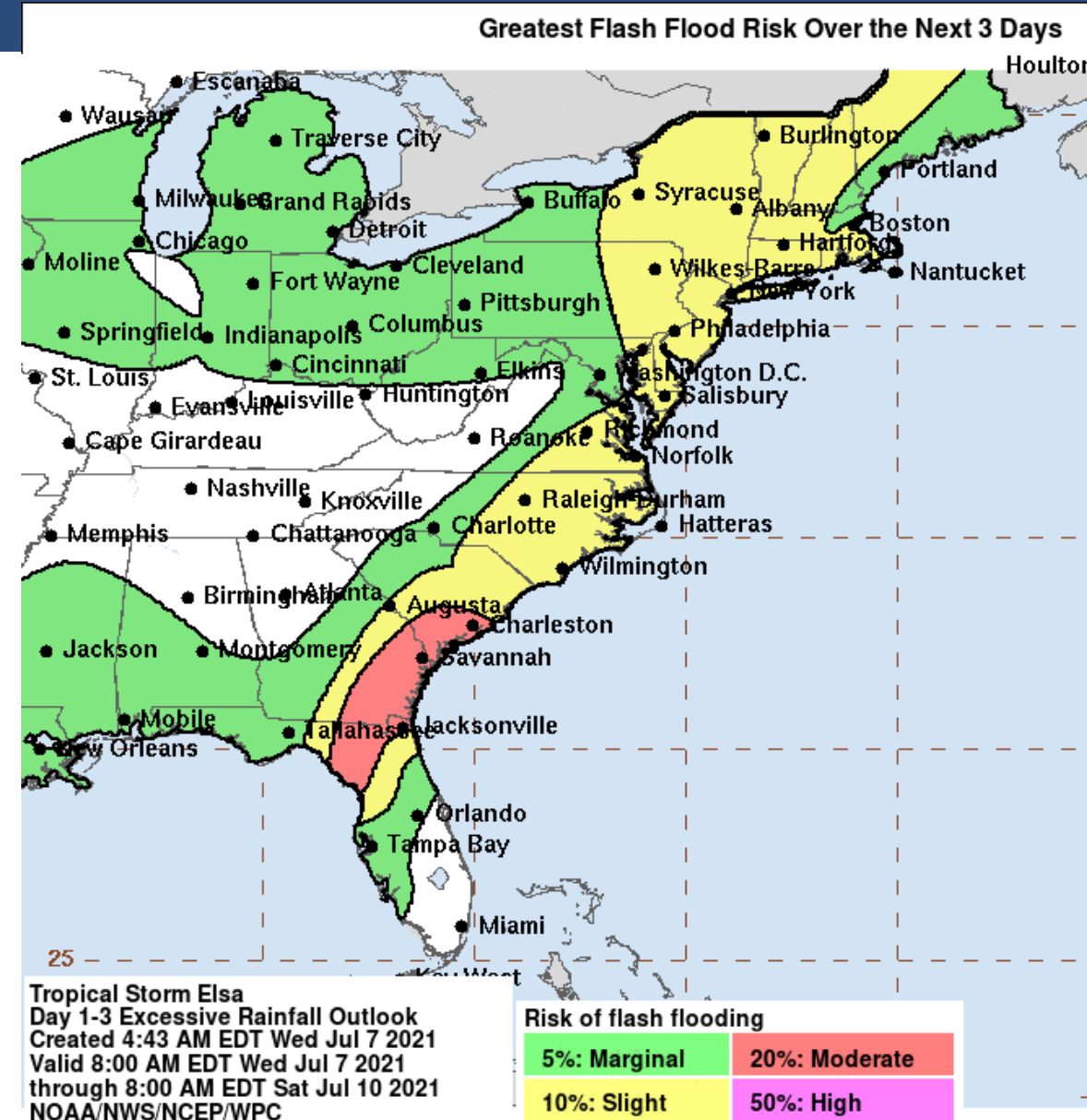
# Flash Flood Outlook

## 3-Day Event Summary

There remains a **Moderate Flash Flood Risk** (level 3 of 4) for the eastern Big Bend and Suwannee Valley through Wednesday night.

### 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			
	NO Flash Flooding			
 WEATHER PREDICTION CENTER				



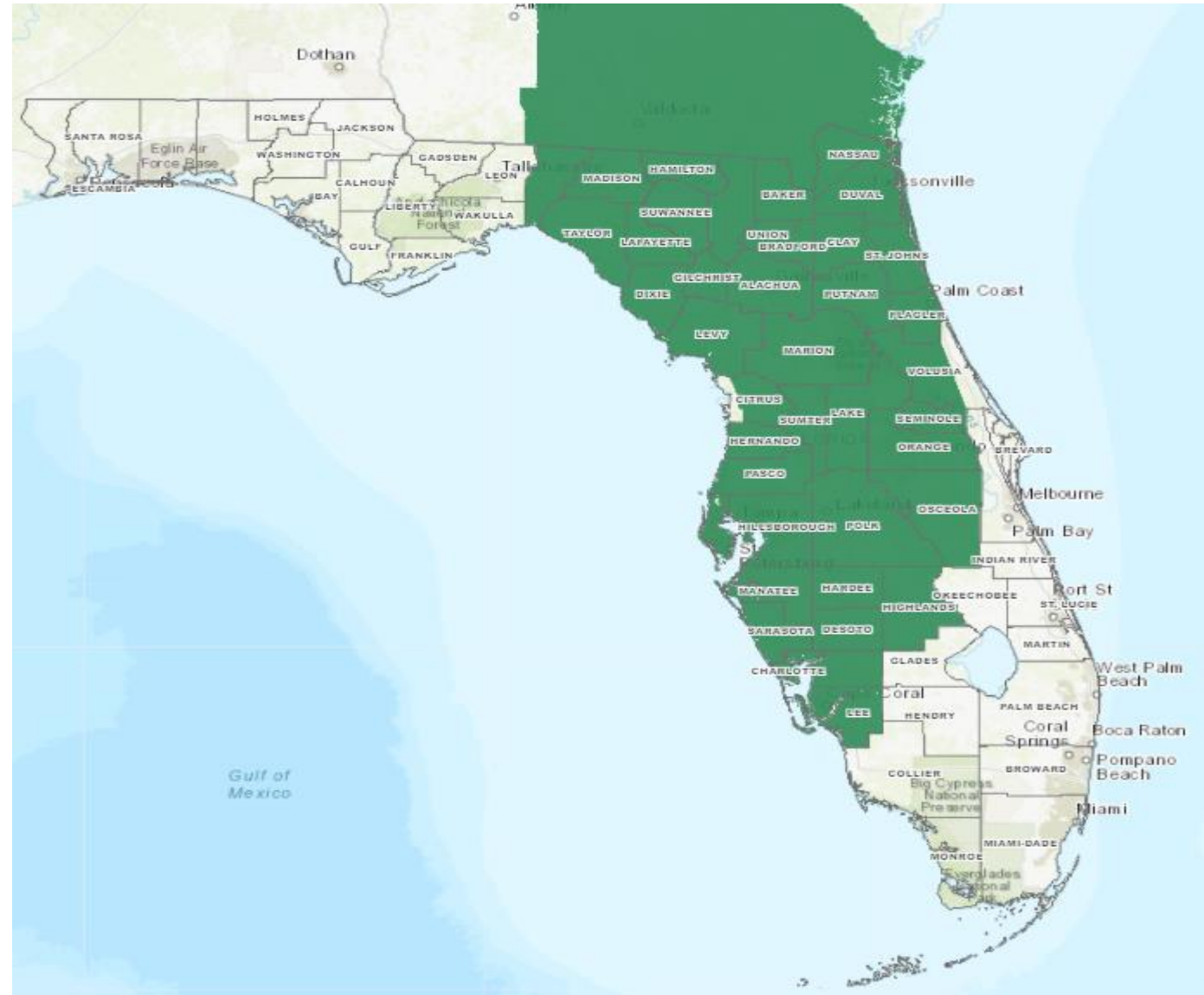


# Flood Watches

[NWS Tampa](#) | [NWS Miami](#) | [NWS Jacksonville](#) | [NWS Tallahassee](#) | [NWS Melbourne](#)

## Flood Watch:

- **Continues Until Late Wednesday afternoon and evening:** All of Northeast Florida, the West Coast, the eastern Big Bend, and Orlando metro area.





# Severe Weather Outlook Wednesday

From the Storm Prediction Center

## 5 - High

Widespread severe storms expected

## 4 - Moderate

Widespread severe storms likely

## 3 - Enhanced

Numerous severe storms possible

## 2 - Slight

Scattered severe storms possible

## 1 - Marginal

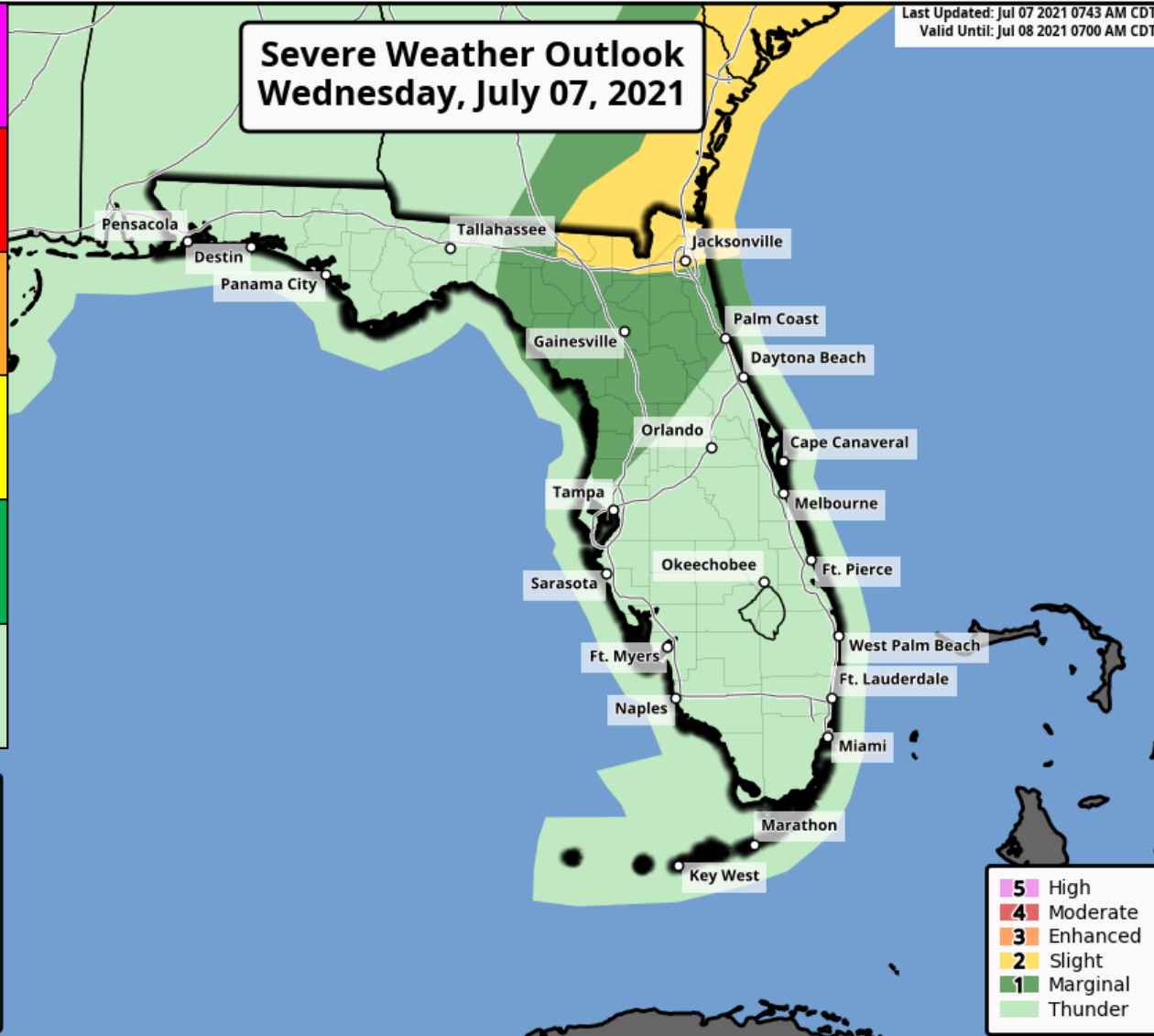
Isolated severe storms possible

## Thunderstorms

No severe storms expected

## Severe Weather Outlook Wednesday, July 07, 2021

Last Updated: Jul 07 2021 0743 AM CDT  
Valid Until: Jul 08 2021 0700 AM CDT



As the outer bands from Elsa move across Northeast Florida today, there is the potential for tornadoes.

## 1 - MARGINAL (MRGL)

Isolated severe  
thunderstorms  
possible

Limited in duration  
and/or coverage  
and/or intensity

## 2 - SLIGHT (SLGT)

Scattered  
severe storms  
possible

Short-lived and/or  
not widespread,  
isolated intense  
storms possible



National Weather Service  
Storm Prediction Center  
<http://www.spc.noaa.gov>



# Tornado Watch

In Effect Until 1 PM ET



## Tornado Watch:

- Hamilton, Suwannee, Columbia, Baker, Bradford, Union, Clay, St. Johns, Duval, Nassau



**Tornado Watch # 341 - Valid from 645 AM until 100 PM EDT**

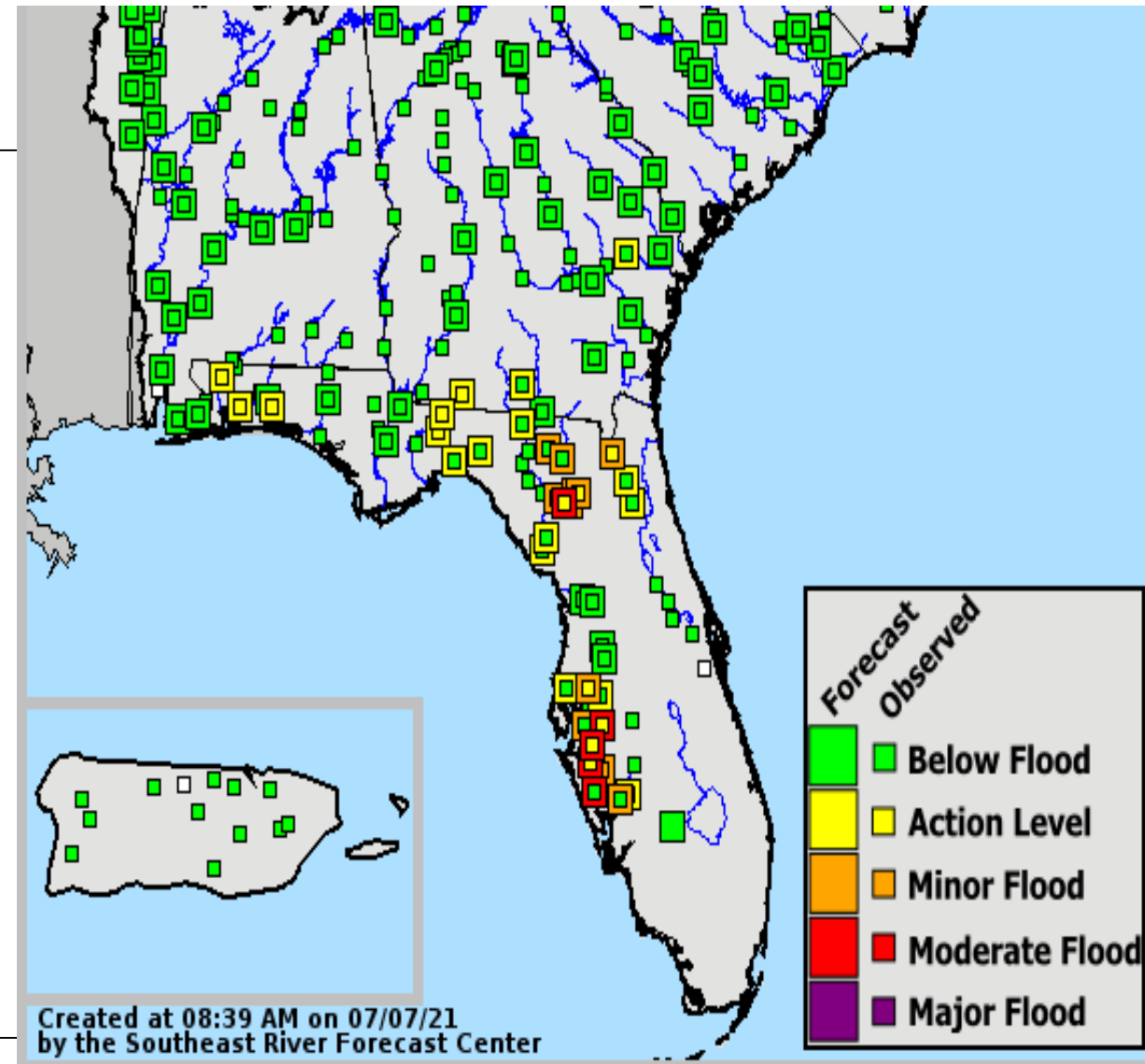


# Current & Forecast River Flooding

## Southeast River Forecast Center

### Rivers Currently in or Forecast to Reach Flood Stage:

- [St. Marys River near Macclenny](#) - **MINOR**
- [Suwannee River at White Springs](#) – **MINOR**
- [Suwannee River near Suwannee Springs](#) - **MINOR**
- [Santa Fe River at Worthington Springs](#) - **MINOR**
- [Santa Fe River at O'leno State Park](#) – **MINOR**
- [Santa Fe River near High Springs](#) – **MINOR**
- [Santa Fe River near Fort White](#) – **MODERATE**
- [Santa Fe River at Three River Estates](#) – **MINOR**
- [Cypress Creek at Worthington Gardens](#) – **MINOR**
- [Alafia River at Lithia](#) – **MODERATE**
- [Alafia River near Riverview](#) – **MINOR**
- [Horse Creek near Arcadia](#) – **MINOR**
- [Little Manatee River near Wimauma](#) - **MODERATE**
- [Manatee River near Myakka Head](#) – **MINOR**
- [Manatee River at Rye Bridge](#) - **MODERATE**
- [Myakka River at Myakka River State Park](#) – **MODERATE**





# Atlantic Basin Satellite Image

Chance of development: None Low Medium High





# Overall Summary

## Tropical Storm Elsa

- The center of Elsa is about 35 miles west of Cedar Key, and moving to the north at 14 mph with max sustained winds around 65 mph.
- Elsa is likely to make landfall within the next few hours near Dixie and Taylor Counties and should exit the state this evening

## Florida Outlook:

- The storm remains lopsided with nearly all of the wind, rain, surge, and tornado threat on the northern and eastern side of the storm.
- Impacts will continue through this afternoon along the Gulf Coast, but should wane this evening and tonight.
- Tropical Storm, Hurricane, Storm Surge, Tornado and Flood Watches and Warnings remain in effect but should expire tonight.
- A widespread 2-4" of rain is possible across the eastern Big Bend and Suwannee Valley today with localized totals of 6-8" possible. This could result in some urban or flash flooding due to wet/saturated soils.
- Saturated soils due to 200-300% of normal rainfall over the last two weeks will make trees more susceptible to falling in strong winds.
- Minor to moderate river flooding is forecast for some North Florida and West Florida areas over the coming days through this weekend.
- Dangerous rip currents are expected at all Florida beaches.

The next briefing packet will be issued Wednesday afternoon. For the latest information on the tropics, please visit the National Hurricane Center website at [www.hurricanes.gov](http://www.hurricanes.gov).



# TROPICAL UPDATE



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State Meteorological Support Unit

Florida Division of Emergency Management

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