



# TROPICAL UPDATE



11:00 AM EDT

Monday, July 5, 2021

Tropical Storm Elsa

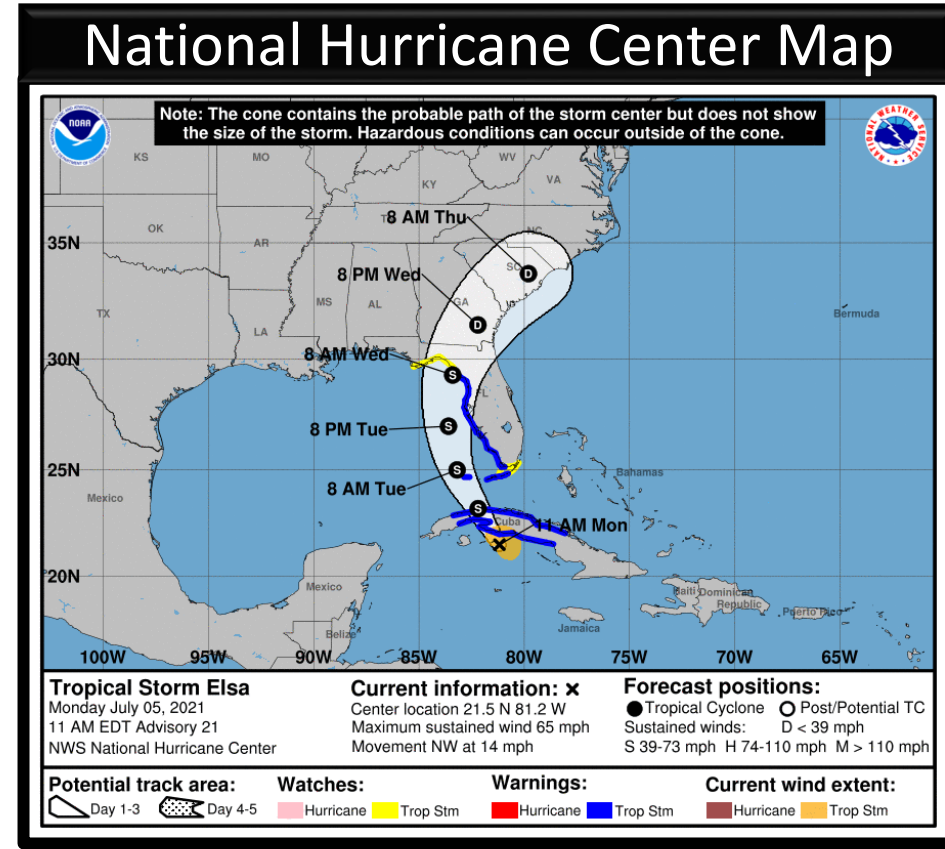
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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

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:

There has been a slight westward shift in the track forecast with the latest advisory, but no changes to the intensity. Tropical Storm Warnings are now in effect for the entire West Coast, with Tropical Storm Watches and Storm Surge Watches in effect for the Big Bend. The first Outer Rain Bands are moving through the Florida Keys.

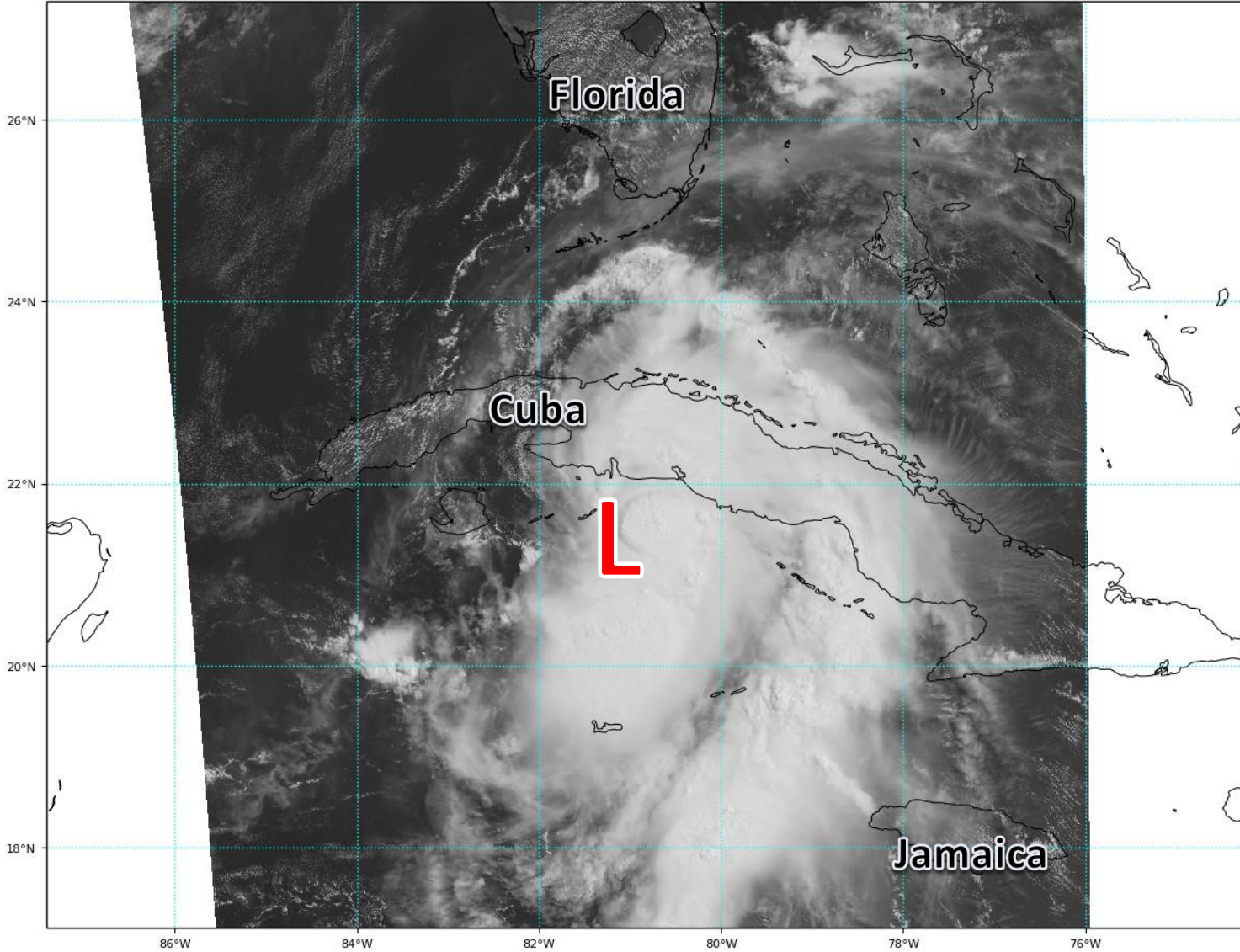


# Satellite Imagery

## Northwest Caribbean Sea – Tropical Storm Elsa

GOES-16 Channel 2 (visible) Reflectance at 14:58:30Z Jul 05, 2021

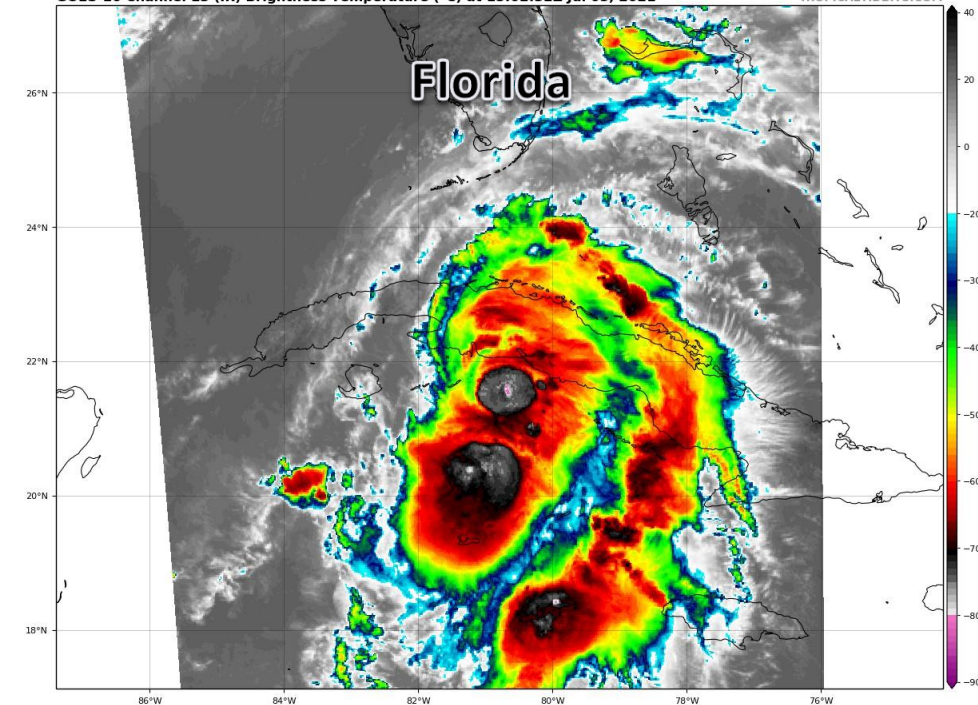
TROPICALTIDBITS.COM



Elsa remains very disorganized this morning, with most of the showers and thunderstorms on the eastern half of the storm.

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 15:02:32Z Jul 05, 2021

TROPICALTIDBITS.COM

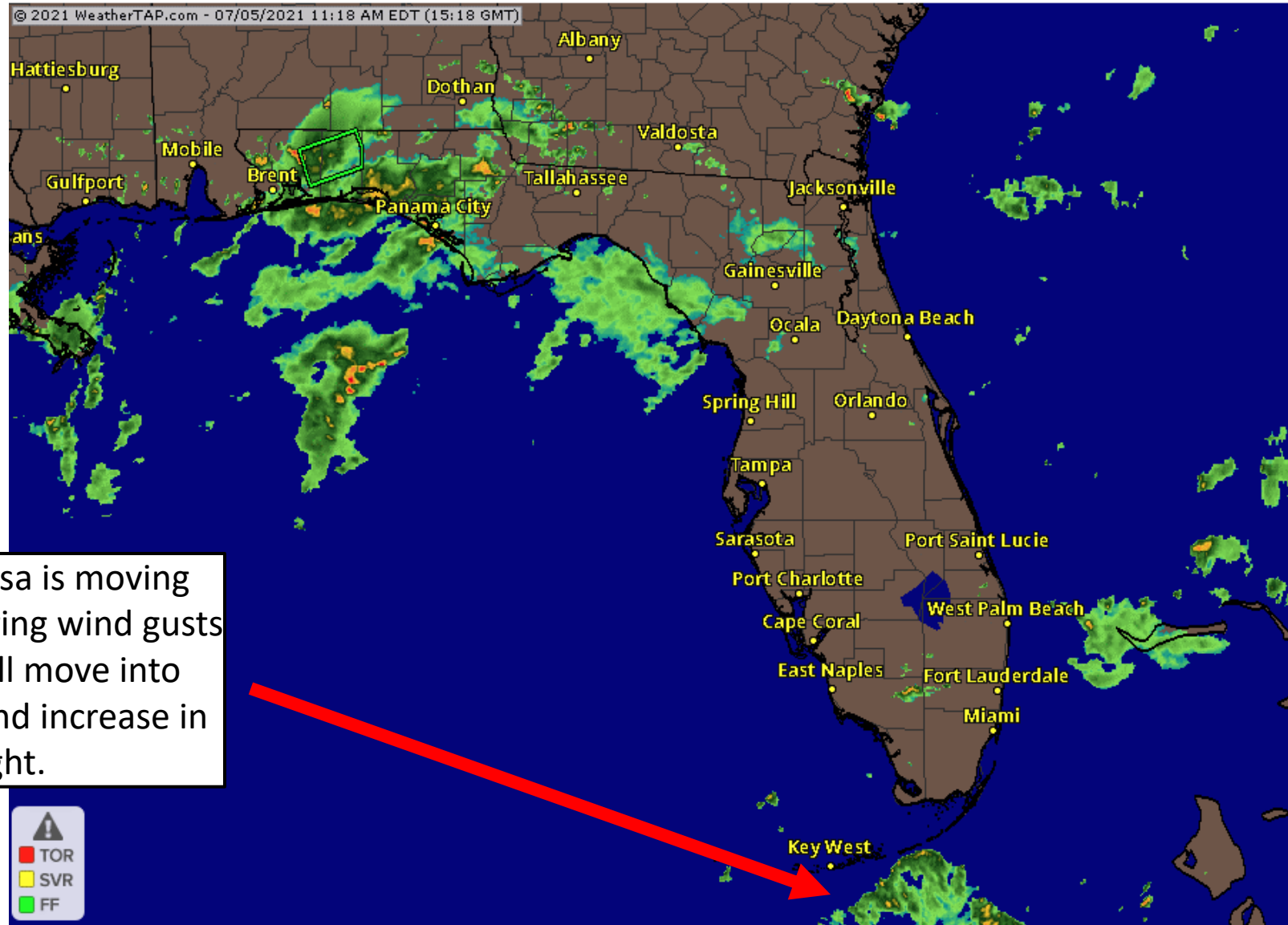






# Current Florida Radar

As of 11:15 AM ET

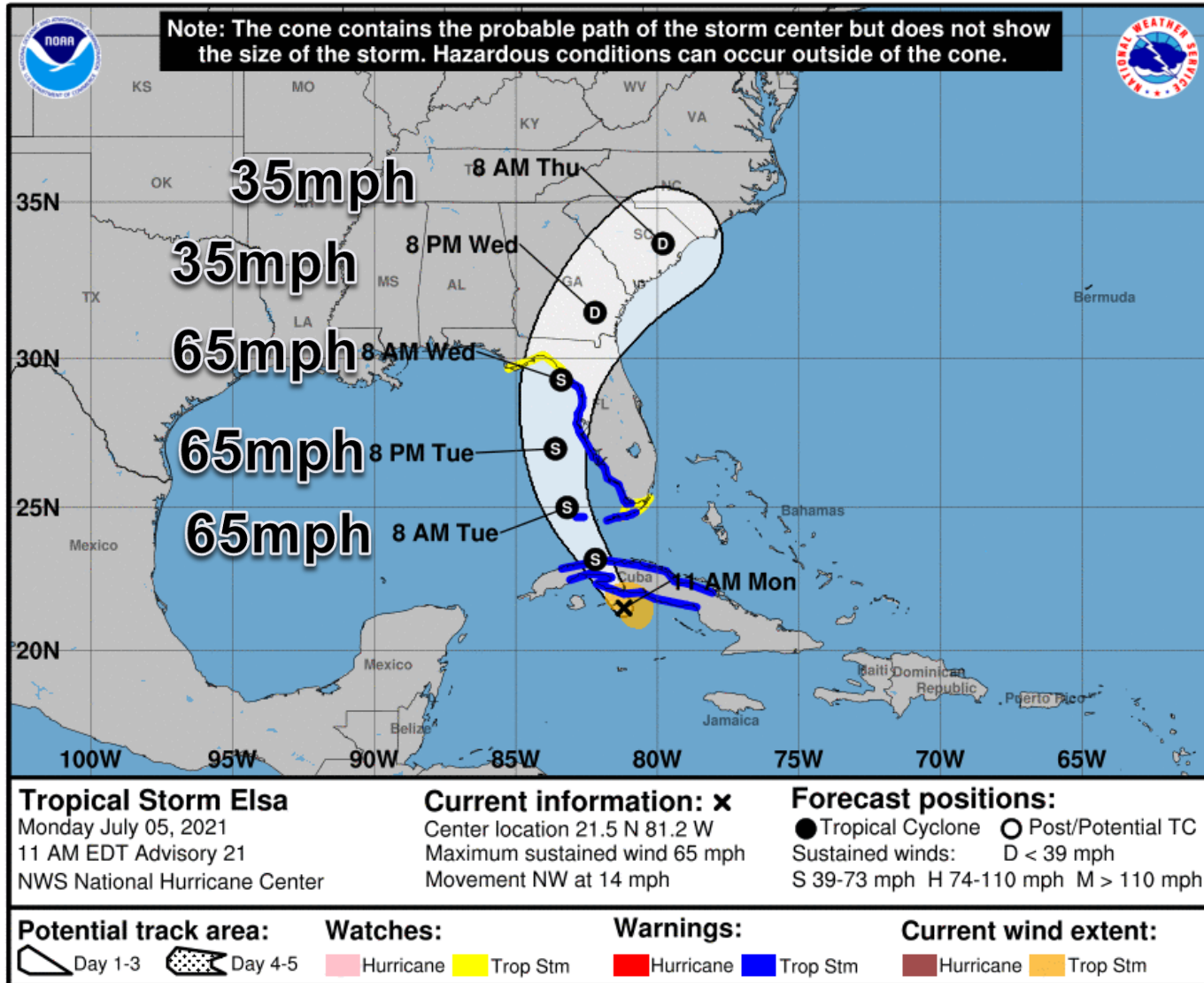


The first outer rain band of Elsa is moving into the Florida Keys and will bring wind gusts up to 50 mph. Rain bands will move into South Florida this afternoon and increase in frequency into tonight.



# Official Forecast Track – Elsa

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



- The center of Elsa is about 200 miles south of Key West, FL and moving to the northwest at 14 mph
- Elsa remains a tropical storm with maximum sustained winds near 65 mph.
- Elsa is expected to traverse Cuba today and experience some weakening. Late tonight, Elsa will move back over water and head north over the eastern Gulf of Mexico.
- Some slight re-strengthening is possible after it emerges into the Gulf of Mexico.
- Landfall appears most likely in the eastern Big Bend of Florida. However, the storm will likely be lopsided with most of the rainfall to the east of the center impacting the entire West Coast as Elsa moves northward.



# Damaging Wind Threat Overview

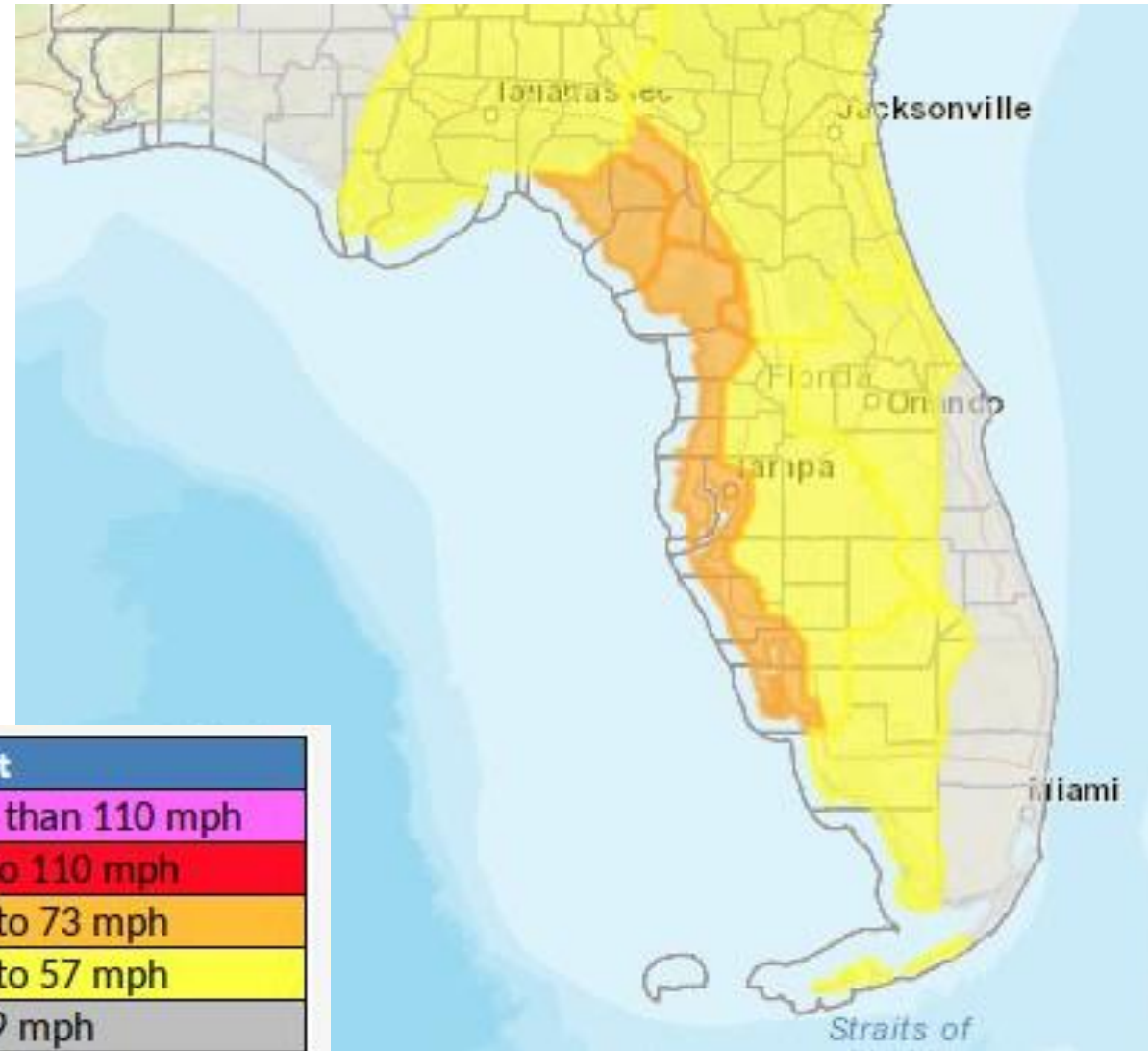
## Tropical Storm Elsa

The greatest wind threat is along the immediate West Coast of Florida (west of I-75 and north of Naples) and inland Northeast Florida.

Still, tropical storm force wind gusts remain possible across any part of state except the Panhandle Tuesday-Wednesday.

[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





# Wind Watches and Warnings

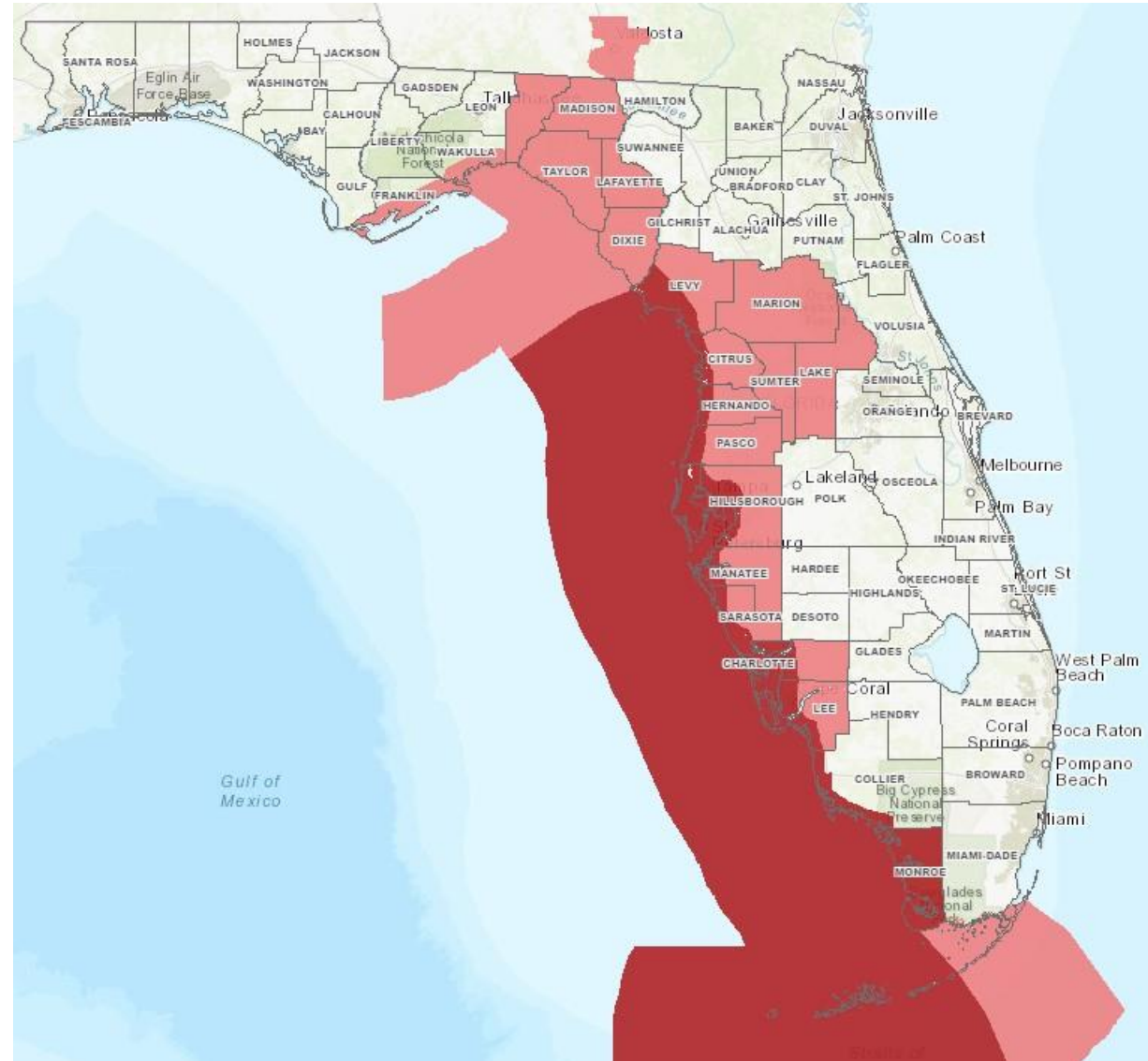
In Effect Until Further Notice

## Tropical Storm Warnings:

- Middle and Lower Keys (Craig Key to Key West & Dry Tortugas)
- Mainland Monroe County
- Coastal portions of Charlotte, Citrus, Collier, Hernando, Hillsborough, Manatee, Pasco, Sarasota, Lee, & Levy
- Pinellas County

## Tropical Storm Watches:

- Upper Keys (Craig Key to Ocean Reef)
- Inland portions of Charlotte, Citrus, Hernando, Hillsborough, Manatee, Pasco, Sarasota, Lee, & Levy
- Coastal portions of Franklin & Wakulla
- Dixie, Jefferson, Lafayette, Lake, Madison, Marion, and Sumter



# Tropical Storm & Hurricanes

## Watches Versus Warnings

### ***WATCH***

Tropical storm and/or hurricane conditions are **POSSIBLE** in Watch area

Issued up to 48 hours in advance of tropical storm force winds

### ***WARNING***

Tropical storm and/or hurricane conditions are **EXPECTED** in Warning area

Issued up to 36 hours in advance of onset of tropical storm force winds

Hurricane preparedness activities become difficult once winds reach tropical storm force. **Watches & Warnings are issued in advance of onset of tropical storm force winds, 39-73mph**



NWSMobile



[weather.gov/mob](https://weather.gov/mob)

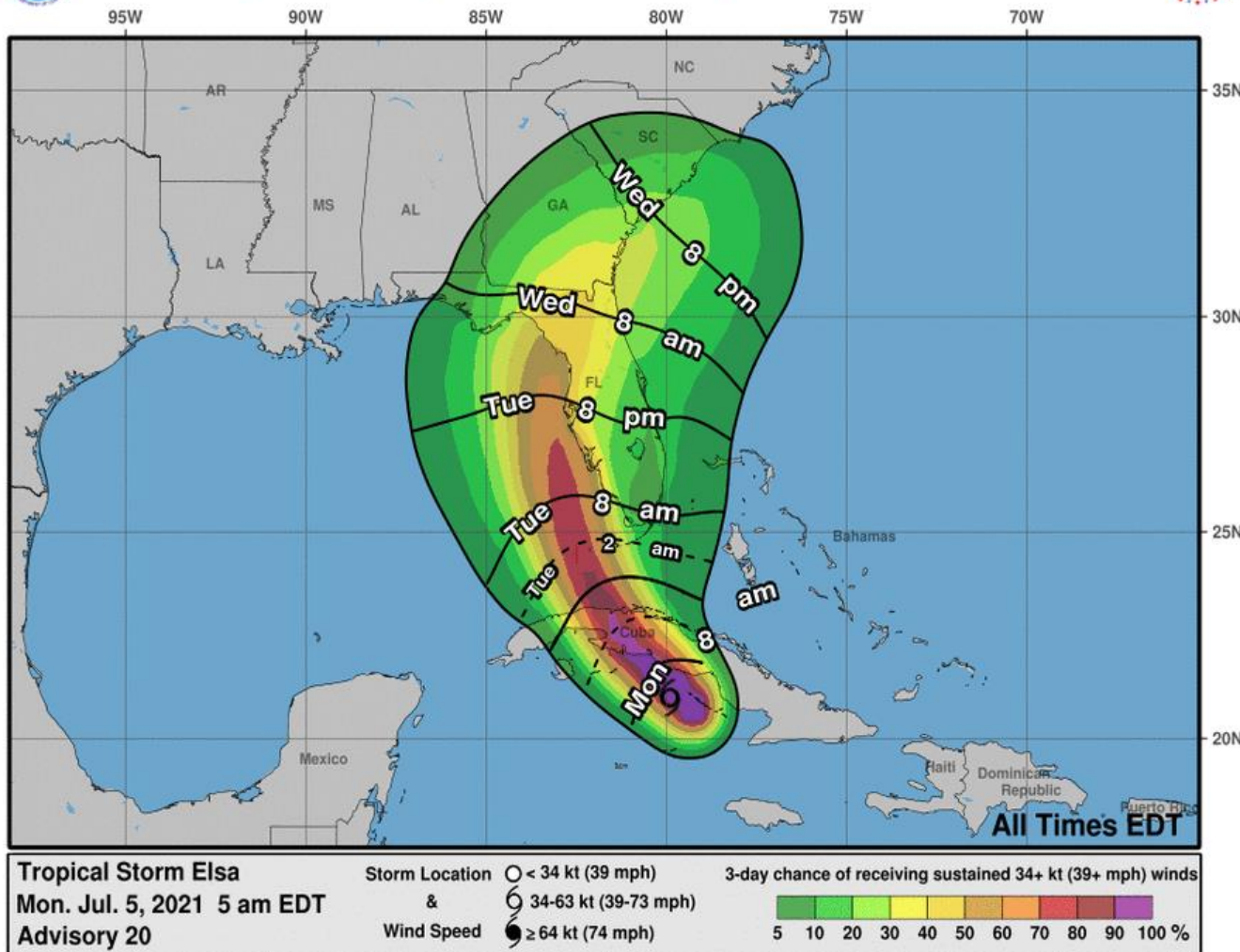




# Time of Arrival & Wind Speed Probabilities

## MOST LIKELY Time of Arrival of Tropical Storm Force Winds (>39 mph)

### 0-3 Day Most Likely Arrival Time of Tropical-Storm-Force Winds



City	Chance for TS Winds	Changes Since Last Packet
Key West	58%	-4%
Marathon	17%	-12%
Naples	39%	-7%
Miami	4%	-3%
West Palm Beach	10%	-2%
Ft. Myers	27%	+2%
Tampa	58%	+/-0%
Orlando	21%	+3%
Apalachicola	24%	+1%
Tallahassee	22%	+/-0%
Gainesville	40%	-1%
Jacksonville	27%	-5%

Odds of tropical storm force winds have increase over the Big Bend and Northeast Florida, and decrease in Southeast Florida/Keys. Tropical storm force winds are **most likely** to begin after midnight tonight in the Florida Keys, after daybreak tomorrow in Southwest Florida, Tuesday night across Central Florida, and early Wednesday morning in Northeast Florida.

The odds of hurricane force winds are less than 5% in the Florida Keys and along the West Coast.



# Key Messages

## From the National Hurricane Center



### Key Messages for Tropical Storm Elsa Advisory 21: 11:00 AM EDT Mon Jul 05, 2021

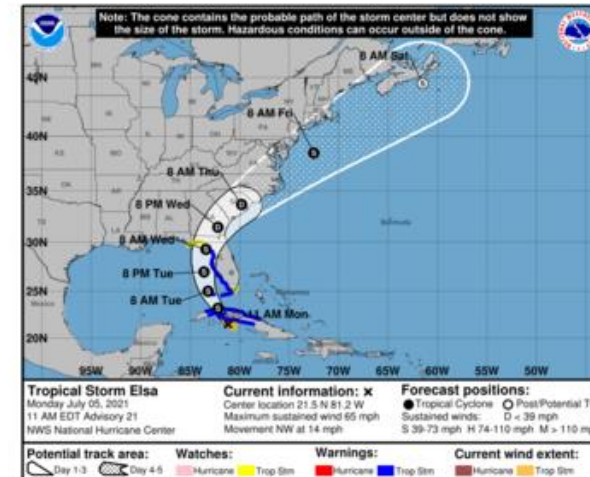


1. Heavy rain will impact the Cayman Islands and Cuba today resulting in significant flooding and mudslides over Cuba. As Elsa approaches the Florida Keys, the Florida Peninsula, and coastal Georgia through Wednesday, heavy rainfall may result in isolated flash, urban, and minor river flooding. Mid to late week, heavy rains across coastal South Carolina and North Carolina may result in isolated flash and urban flooding.

2. Tropical storm conditions and a dangerous storm surge are expected to continue across portions of central and western Cuba today.

3. Tropical storm conditions are expected in portions of the Florida Keys and along the Florida west coast tonight through Tuesday night, where a Tropical Storm Warning is in effect. A Tropical Storm Watch and a Storm Surge Watch are in effect for portions of the west coast of Florida and the Florida Big Bend.

4. There is a risk of tropical storm conditions and storm surge impacts along the coasts of Georgia and the Carolinas Wednesday and Thursday.



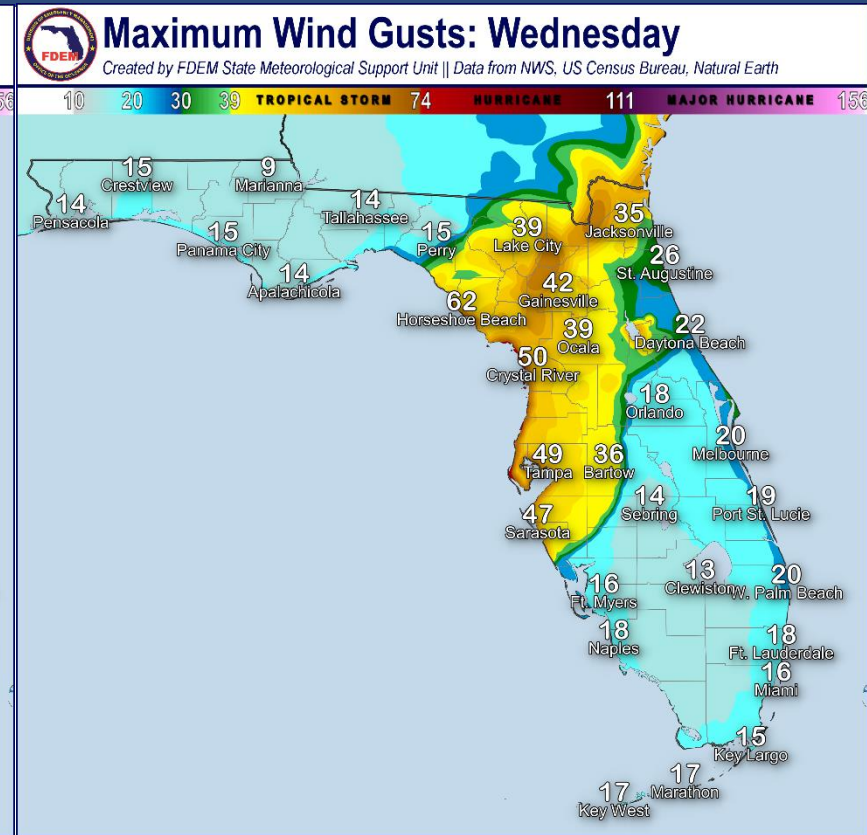
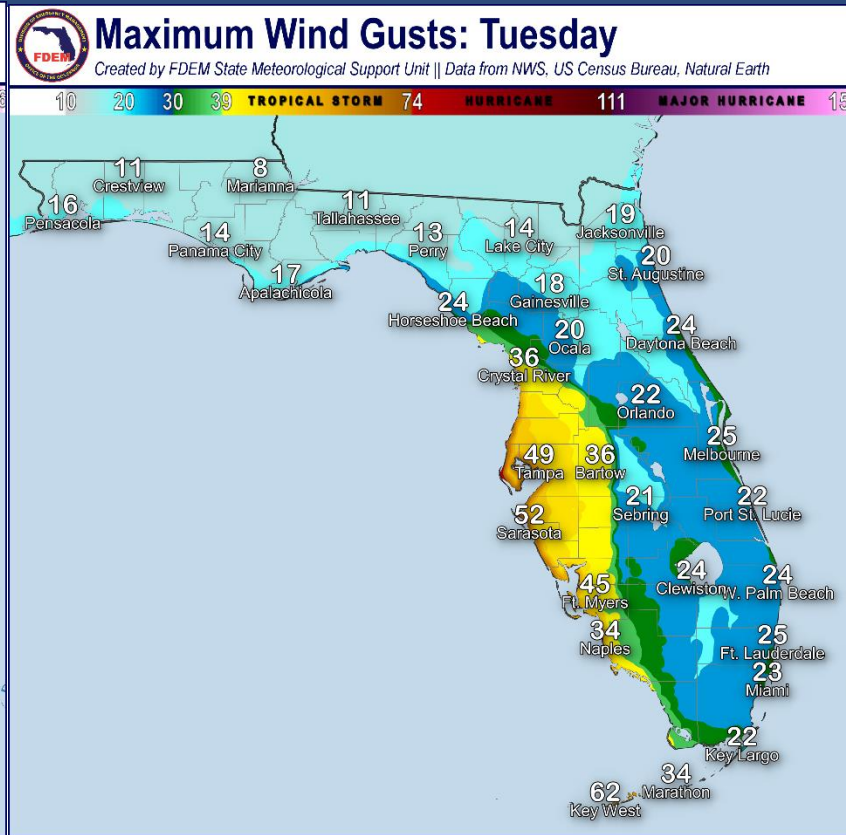
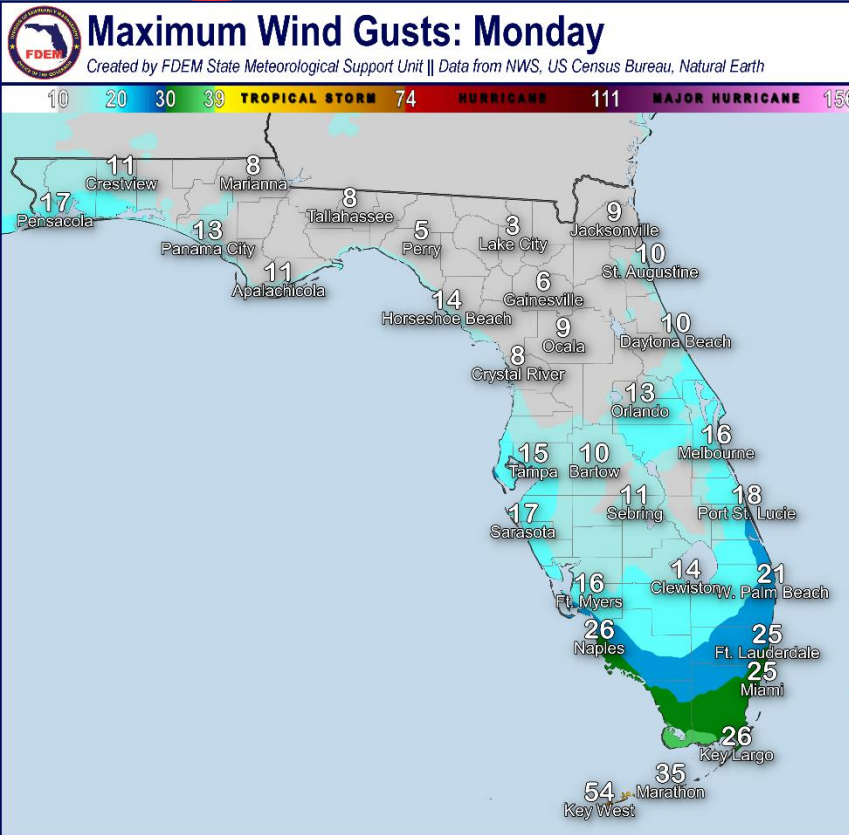
For more information go to [hurricanes.gov](https://hurricanes.gov)





# Max Wind Gusts Next 3 Days

\*\*\*Higher Gusts Possible in Thunderstorms\*\*\*



Winds will increase late today in far southern Florida and the Keys, across the western Florida Peninsula on Tuesday, and Northeast Florida on Wednesday.





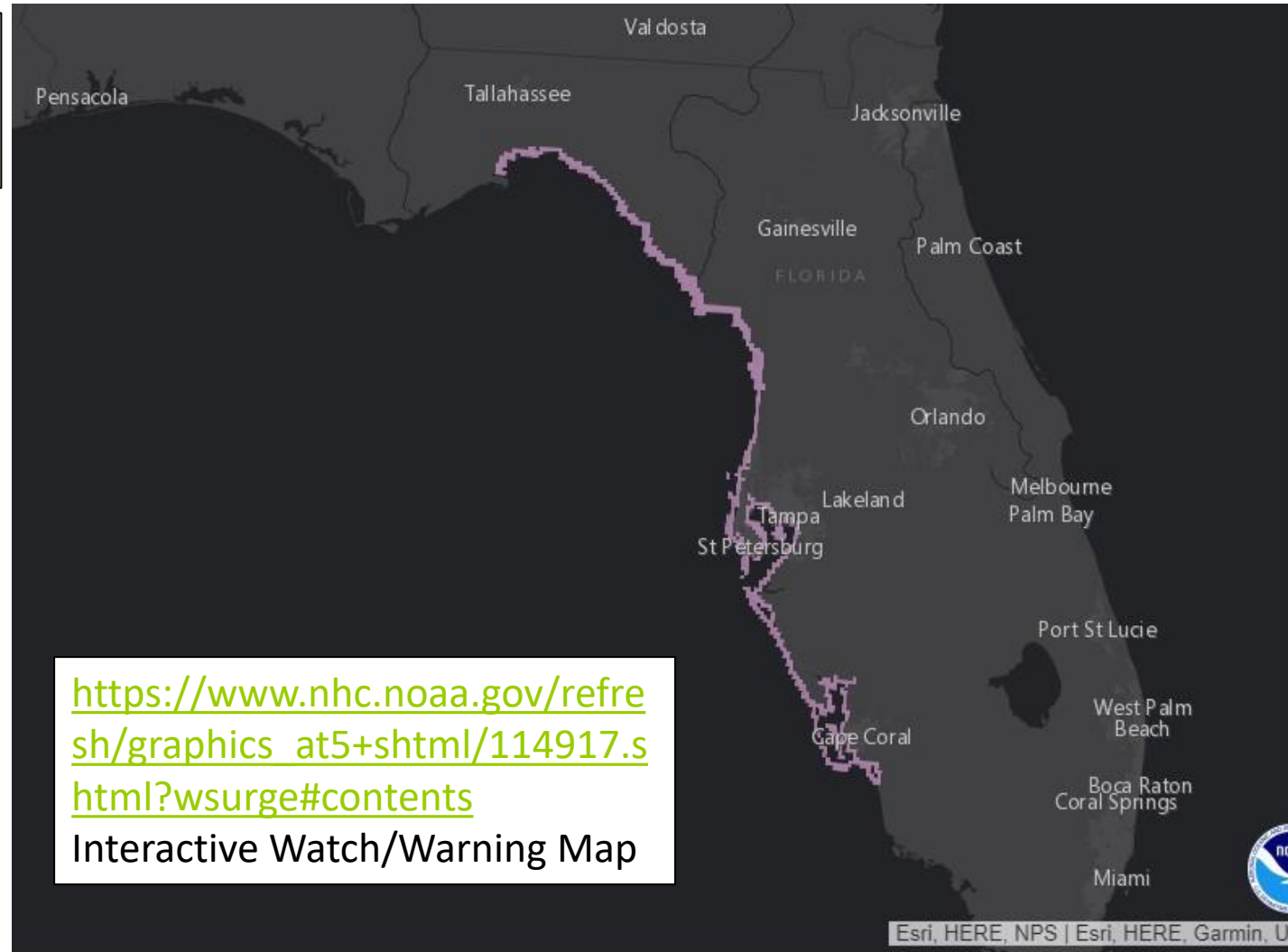
# Surge Watches and Warnings

In Effect Until Further Notice

[https://www.nhc.noaa.gov/refresh/graphics\\_at5+shhtml/114917.shtml?inundation#contents](https://www.nhc.noaa.gov/refresh/graphics_at5+shhtml/114917.shtml?inundation#contents)

Interactive P-Surge Inundation Map

**A Storm Surge Watch has been issued for the West Coast of Florida, from Bonita Beach to the Suwannee River, which includes coastal portions of the Lee, Charlotte, Sarasota, Manatee, Hillsborough, Pinellas, Pasco, Hernando, Citrus, Levy, Dixie, Taylor, Jefferson, and Wakulla County.**



60mi

Storm Surge Warning  
Storm Surge Watch

# 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.







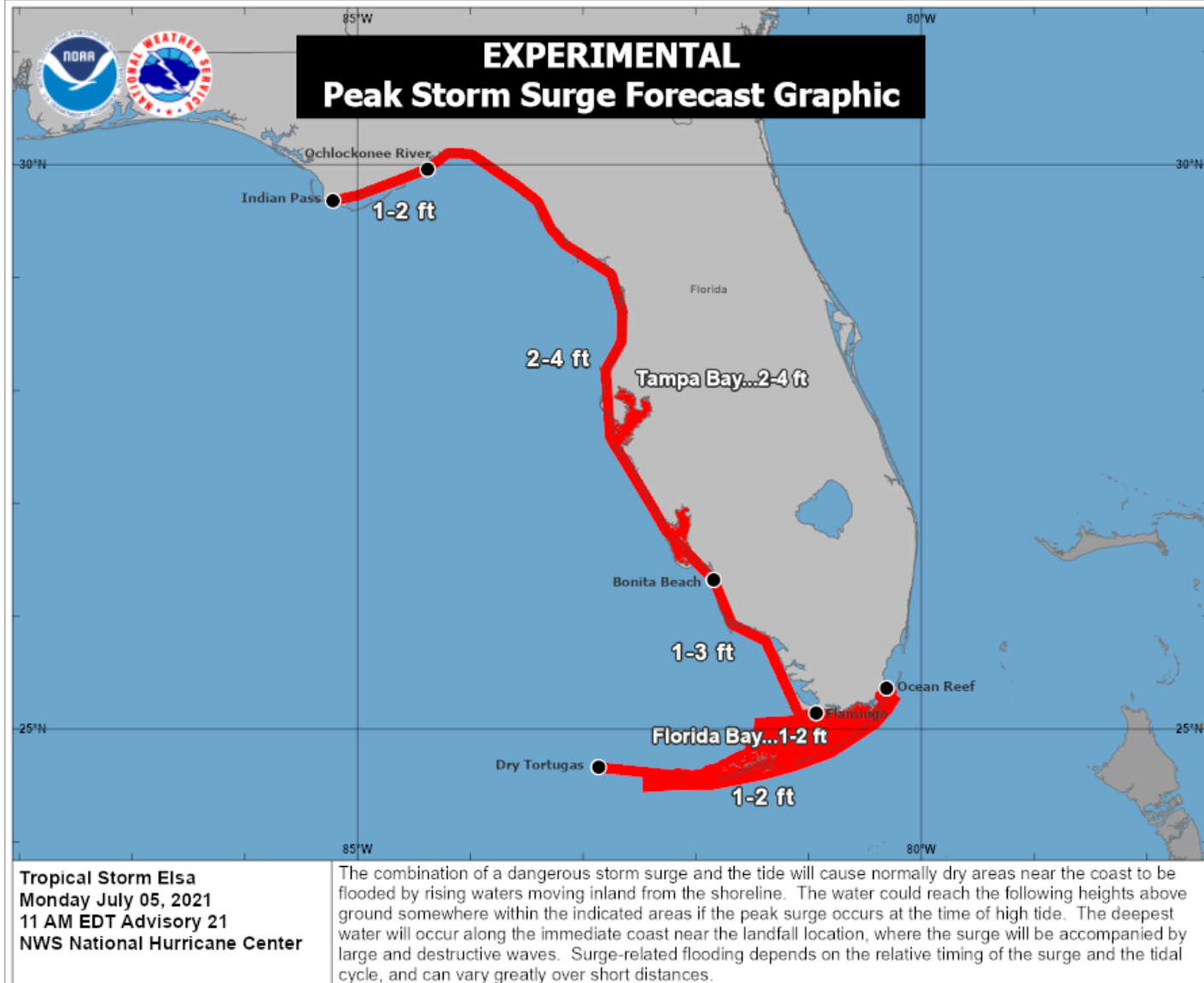
# Storm Surge/Coastal Flooding

## Tropical Storm Elsa

The official forecast calls for 1-3 feet of storm surge along Collier and Mainland Monroe Counties with 1-2 feet in Florida Bay and the Florida Keys.

Higher surge values of 2-4' are forecast for the West Coast of Florida, including Tampa Bay and much of the Big Bend where Storm Surge Watches are in effect.

1-2' of surge is expected in Franklin County is Elsa takes a more western track.

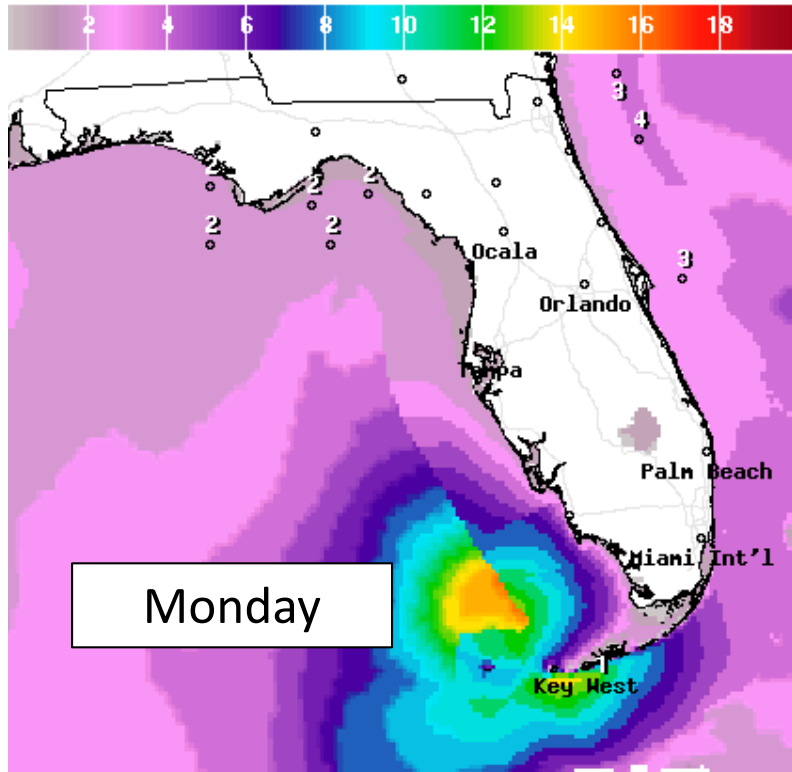






# Forecast Wave Heights

## Monday through Wednesday



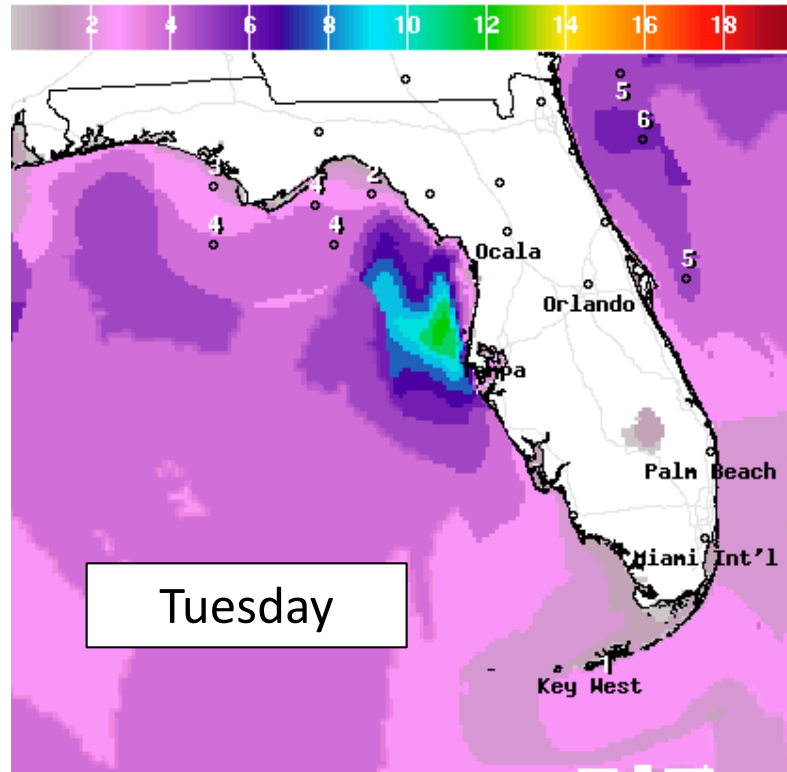
Monday

Wave Height(ft) Ending Tue Jul 06 2021 8AM EDT  
(Tue Jul 06 2021 12Z)



National Digital Forecast Database

13z issuance Graphic created-Jul 05 9:26AM EDT



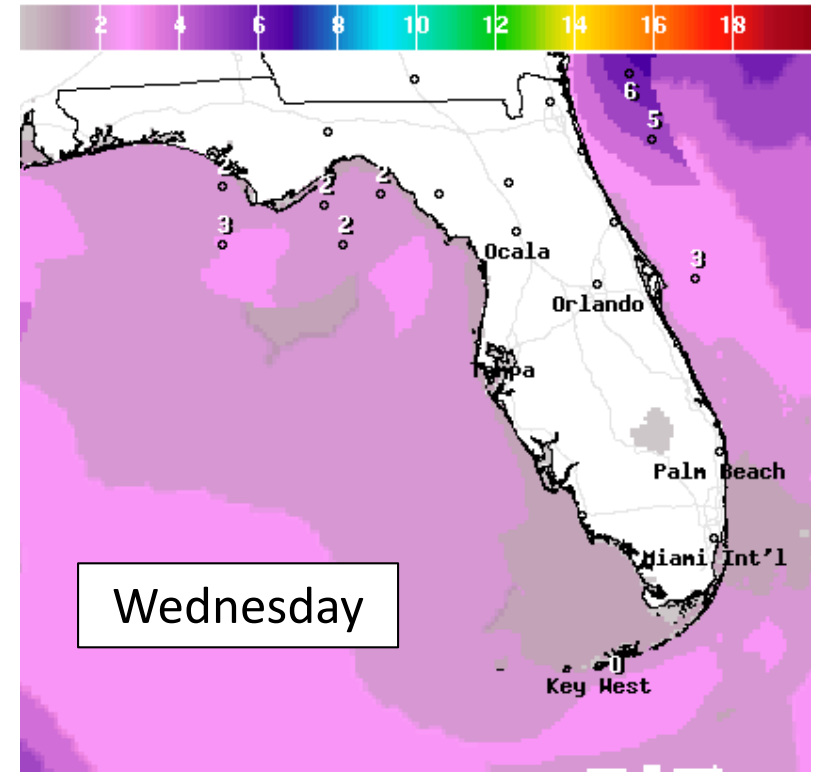
Tuesday

Wave Height(ft) Ending Wed Jul 07 2021 8AM EDT  
(Wed Jul 07 2021 12Z)



National Digital Forecast Database

13z issuance Graphic created-Jul 05 9:26AM EDT



Wednesday

Wave Height(ft) Ending Thu Jul 08 2021 2AM EDT  
(Thu Jul 08 2021 06Z)



National Digital Forecast Database

13z issuance Graphic created-Jul 05 9:27AM EDT

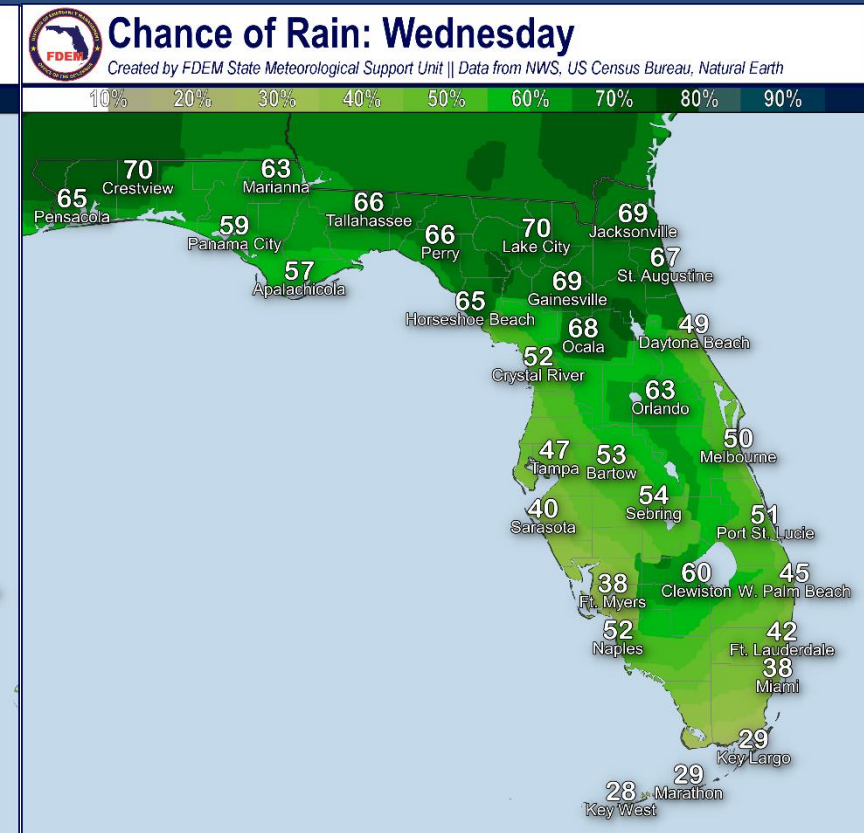
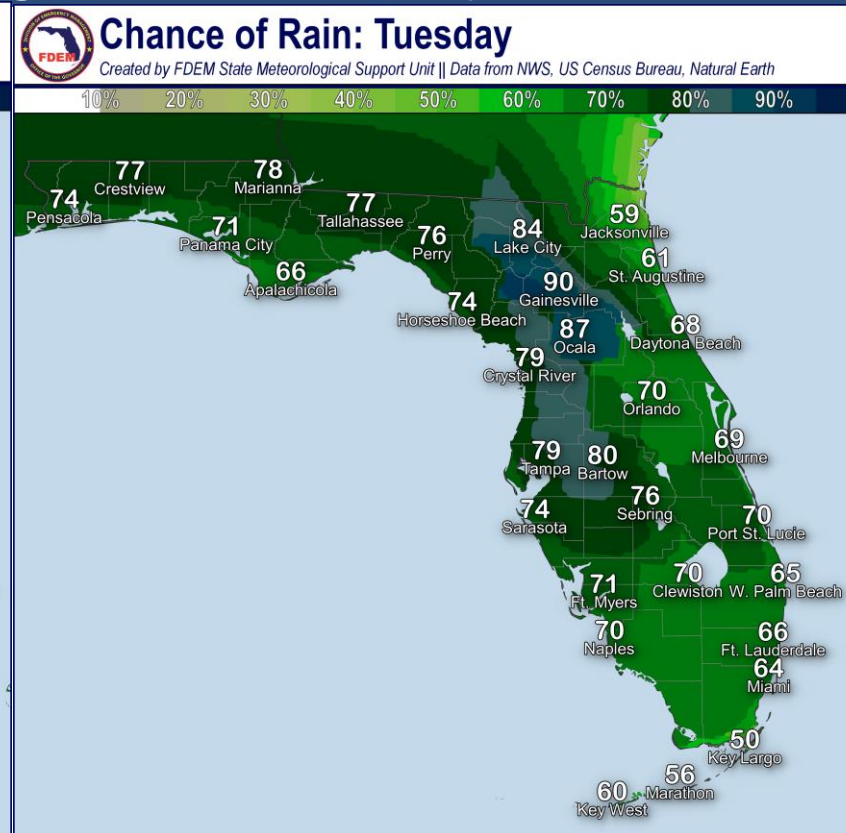
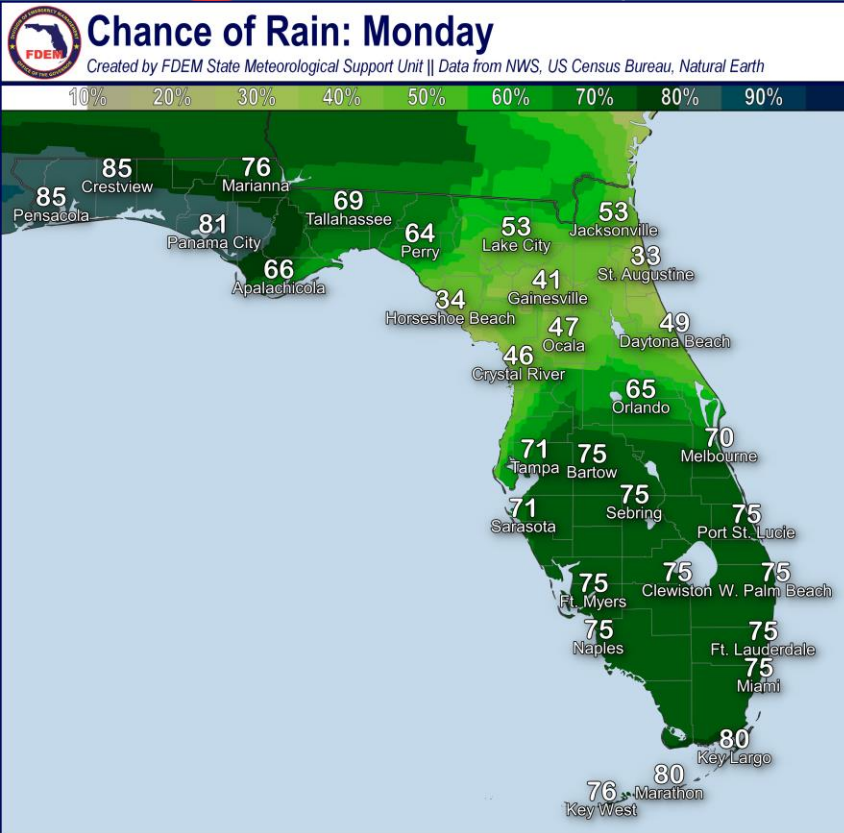


Surf will build along many Florida beaches as Elsa moves near and over the state. This will result in dangerous rip currents at nearly all Florida beaches. Minor to moderate beach erosion should be expected along parts of the West Coast with dune overwash possible in a few locations. High surf will shift to Northeast Florida by Wednesday.



# Forecast Rain Chances

## Monday through Wednesday – Tropical Storm Elsa



Rain chances will increase across the state on Monday, but particularly in South Florida. High rain chances will overspread much of the state as Elsa moves northward. Some decrease in rain chances is possible by Wednesday as Elsa departs the state, but will remain high across North Florida.





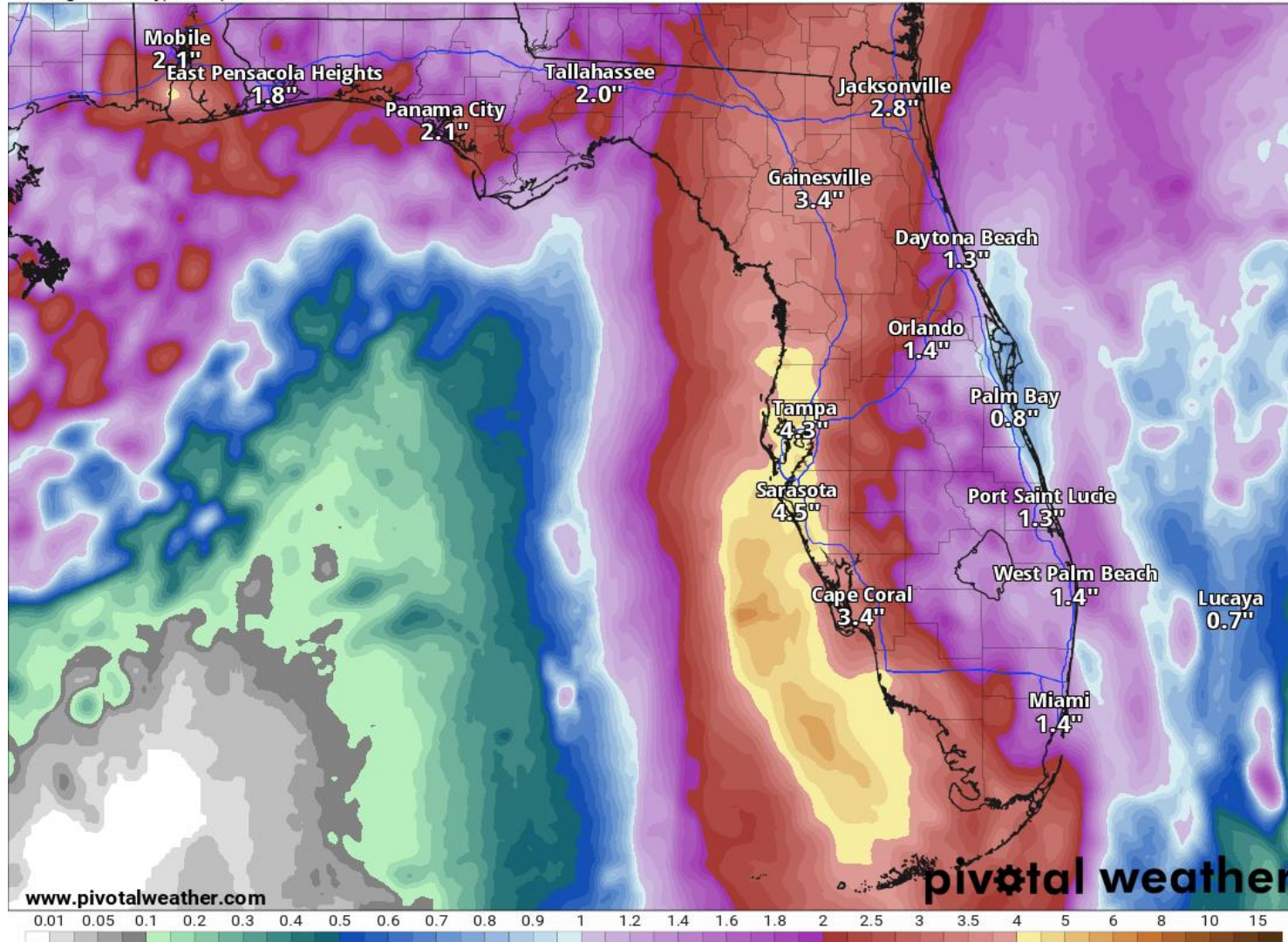
# Rainfall Totals Next 72 Days

Ending 8 AM ET Thursday

72-Hour Precipitation (in)

Ending Thursday, Jul. 8, 2021 at 8 a.m. EDT

Init: Mon 2021-07-05 12z WPC



Through the next 3 days, rainfall totals of 3-5" are expected along the West Coast & Northeast Florida with localized totals of 6-8" possible.

Rainfall totals will be less along the East Coast and Panhandle- from 1-3".

**Areal Flood Watch for the Eastern Panhandle from NWS Tallahassee:**

<https://forecast.weather.gov/wwama/p/wwatxtget.php?cwa=tae&wwa=flood%20watch>



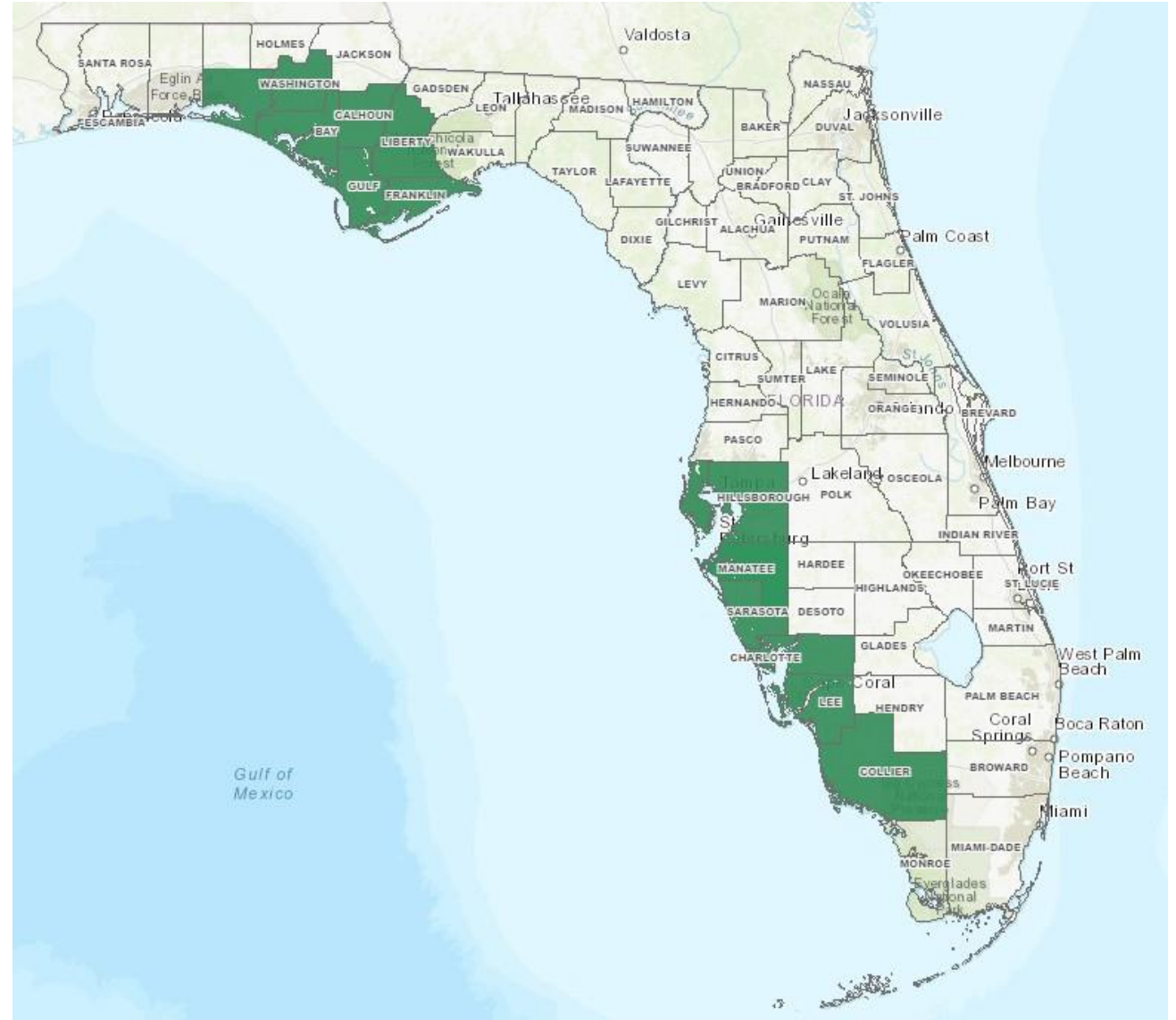


# Flood Watches

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

## Areal Flood Watch:

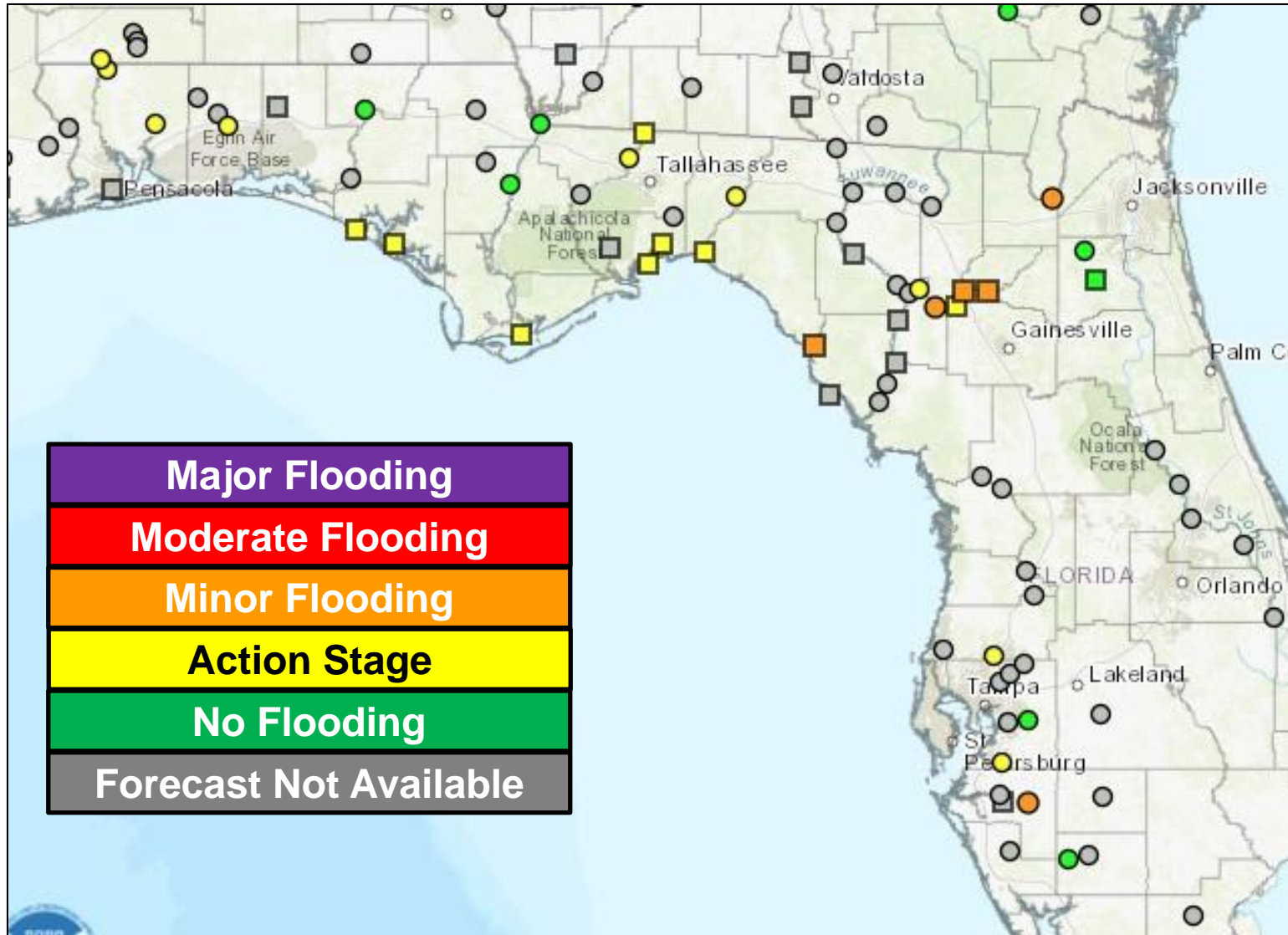
- **Until Tonight:** Bay, Calhoun, Franklin, Gulf, Liberty, Washington, and southern Walton in the Panhandle
- **Until Late Tuesday Night:** Charlotte, Collier, Hillsborough, Lee, Manatee, Pinellas, Sarasota in West Central Florida





# Forecast River Flooding

## Forecast River Levels Based on Rainfall Next 48 Hours



Based on current forecasts, the Manatee River at Myakka Head and the St. Marys River near Macclenny may reach minor flood stage. Additionally, the Santa Fe River will likely remain in minor flood stage over the next few days.

Several other rivers across the state are forecast to rise into Action Stage.

Note that the river levels will depend greatly on where the heaviest rainfall sets up. Smaller, flashier creeks not shown here could see quick rises in heavy rain bands.



# Severe Weather Outlook Monday

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

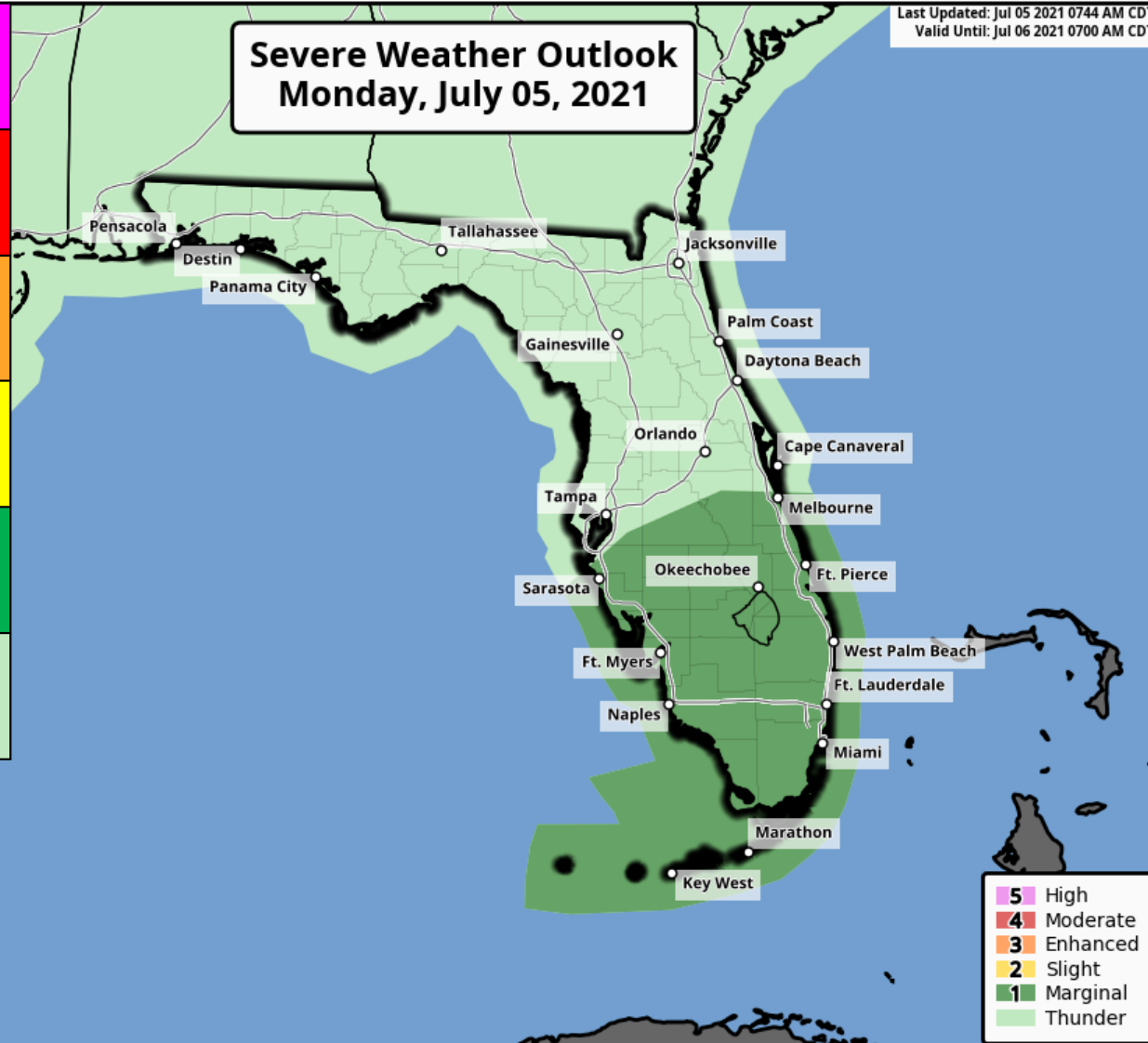
Isolated severe storms possible

## Thunderstorms

No severe storms expected

## Severe Weather Outlook Monday, July 05, 2021

Last Updated: Jul 05 2021 0744 AM CDT  
Valid Until: Jul 06 2021 0700 AM CDT



As the outer bands from Elsa move into South Florida and the Florida Keys today/tonight, isolated tornadoes are possible. There is a **Marginal Risk** (level 1 of 5) of Severe Weather.

**THUNDERSTORMS**  
(no label)

No severe\*  
thunderstorms  
expected

Lightning/flooding  
threats exist with all  
thunderstorms

**1 - MARGINAL**  
(MRGL)

Isolated severe  
thunderstorms  
possible

Limited in duration  
and/or coverage  
and/or intensity



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





# Severe Weather Outlook Tuesday

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

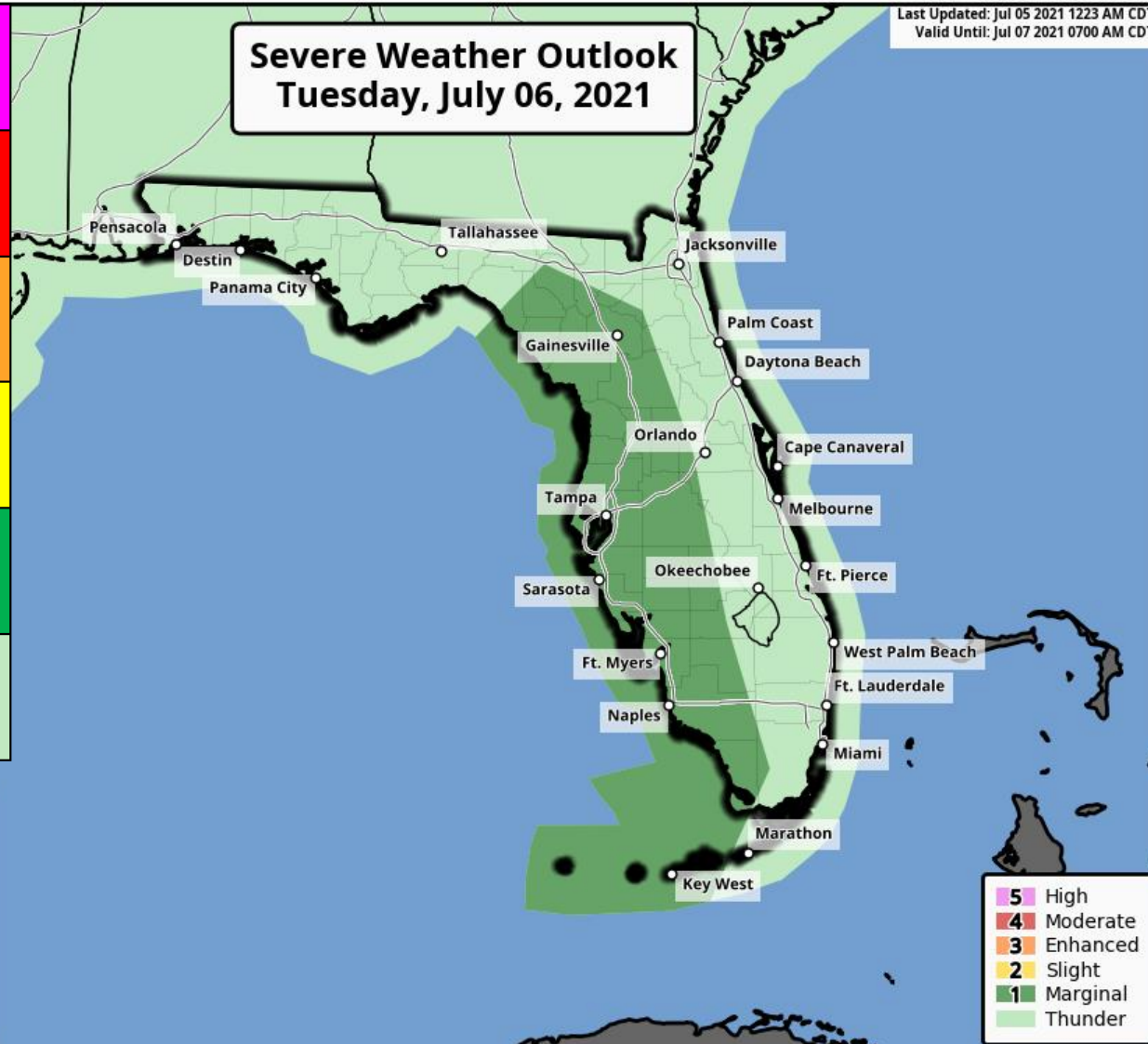


National Weather Service  
Storm Prediction Center

<http://www.spc.noaa.gov>

## Severe Weather Outlook Tuesday, July 06, 2021

Last Updated: Jul 05 2021 1223 AM CDT  
Valid Until: Jul 07 2021 0700 AM CDT



As Elsa moves northward, rain bands will move across the western half of the Peninsula. Isolated tornadoes will be possible and there is a **Marginal Risk** (level 1 of 5) of Severe Weather.

## THUNDERSTORMS (no label)

No severe\*  
thunderstorms  
expected

Lightning/flooding  
threats exist with all  
thunderstorms

## 1 - MARGINAL (MRGL)

Isolated severe  
thunderstorms  
possible

Limited in duration  
and/or coverage  
and/or intensity



# Overall Summary

## Tropical Storm Elsa

- The center of Elsa is about 200 miles south of Key West, FL and moving to the northwest at 14 mph with max winds around 65 mph (Tropical Storm).
- Elsa is expected to traverse Cuba today and experience some weakening. Late tonight, Elsa will move back over water and head north over the eastern Gulf of Mexico. Some slight re-strengthening is possible after it emerges into the Gulf of Mexico.

## Florida Outlook:

- Do not focus on the exact forecast points as impacts will extend well outside of the forecast cone. The storm will likely be lopsided with most of the rainfall to the east of the center impacting the entire West Coast as Elsa moves northward.
- **Tropical Storm Warnings:** Middle and Lower Keys (Craig Key to Key West & Dry Tortugas), Mainland Monroe County, Coastal portions of Charlotte, Citrus, Collier, Hernando, Hillsborough, Manatee, Pasco, Sarasota, Lee, & Levy County, along with Pinellas County
- **Tropical Storm Watches:** Upper Keys (Craig Key to Ocean Reef), Inland portions of Charlotte, Citrus, Hernando, Hillsborough, Manatee, Pasco, Sarasota, Lee, & Levy, Coastal portions of Franklin & Wakulla, along with Dixie, Jefferson, Lafayette, Lake, Madison, Marion, and Sumter County.
- Tropical storm force winds from 40-60 mph are possible, particularly in gusts with bands of showers/thunderstorms on Tuesday and Wednesday.
- **Storm Surge Watches:** Bonita Beach to the Ochlockonee River, or the coastal areas of Charlotte, Citrus, Dixie, Hernando, Hillsborough, Jefferson, Lee, Levy, Manatee, Pasco, Pinellas, Sarasota, Taylor, and Wakulla County.
- Storm Surge values of 2-4' are forecast in the watch area. Storm surge values of 1-2' are expected across the Keys and Collier County.
- **Flood Watch:** Charlotte, Hillsborough, Lee, Manatee, Pinellas, Sarasota in West Central Florida and Bay, Calhoun, Franklin, Gulf, Liberty, Washington, and southern Walton in the Panhandle
- A widespread 3-5" of rain is possible across the eastern Big Bend, Northeast Florida, and West Coast over the next 3 days with localized totals of 6-8". This could result in some urban or flash flooding early next week due to wet/saturated soils as well as some minor river flooding. Flood Watches may be needed.
- Saturated soils will make trees more susceptible to falling in strong winds.
- Dangerous rip currents are expected at most Florida beaches. Minor to moderate beach erosion is also possible along West Coast beaches with dune overwash.
- There is a threat of isolated tornadoes beginning this afternoon in South Florida and the Keys, spreading up the Peninsula through Tuesday.

The next briefing packet will be issued this afternoon with the 5 PM ET advisory. 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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