



# TROPICAL UPDATE



11:45 AM EDT

Friday, June 3, 2022

## Potential Tropical Cyclone One

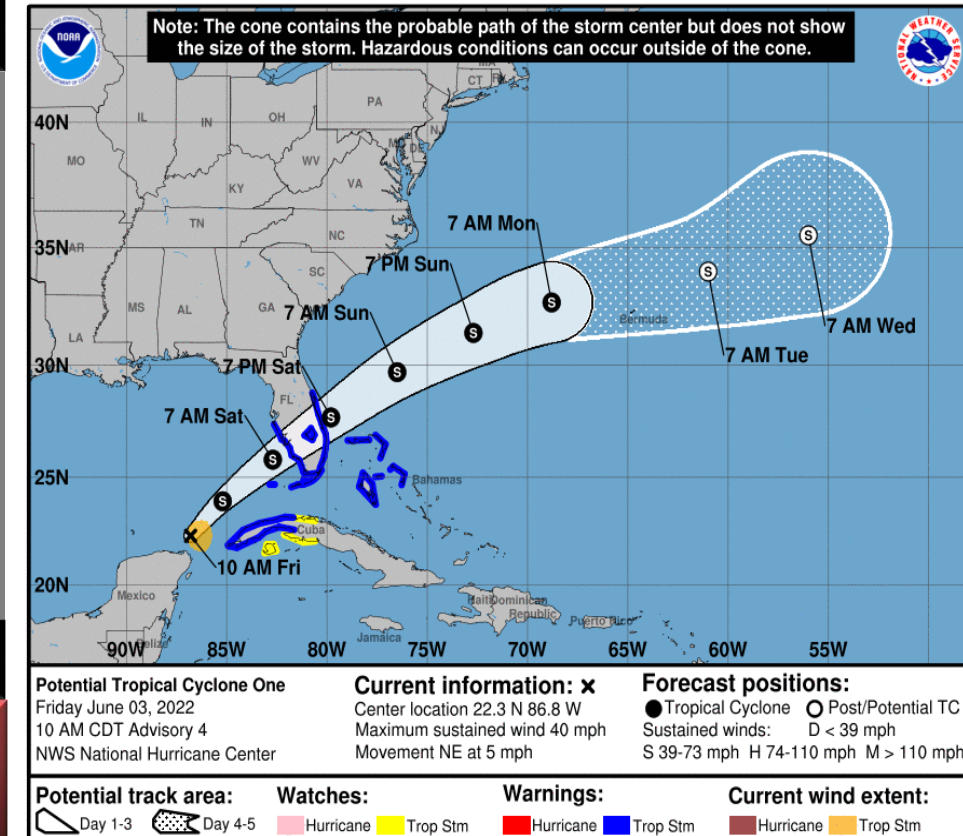
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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



# Potential Tropical Cyclone One

11 AM EDT Friday: Florida Threats & Changes Since Last Packet

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

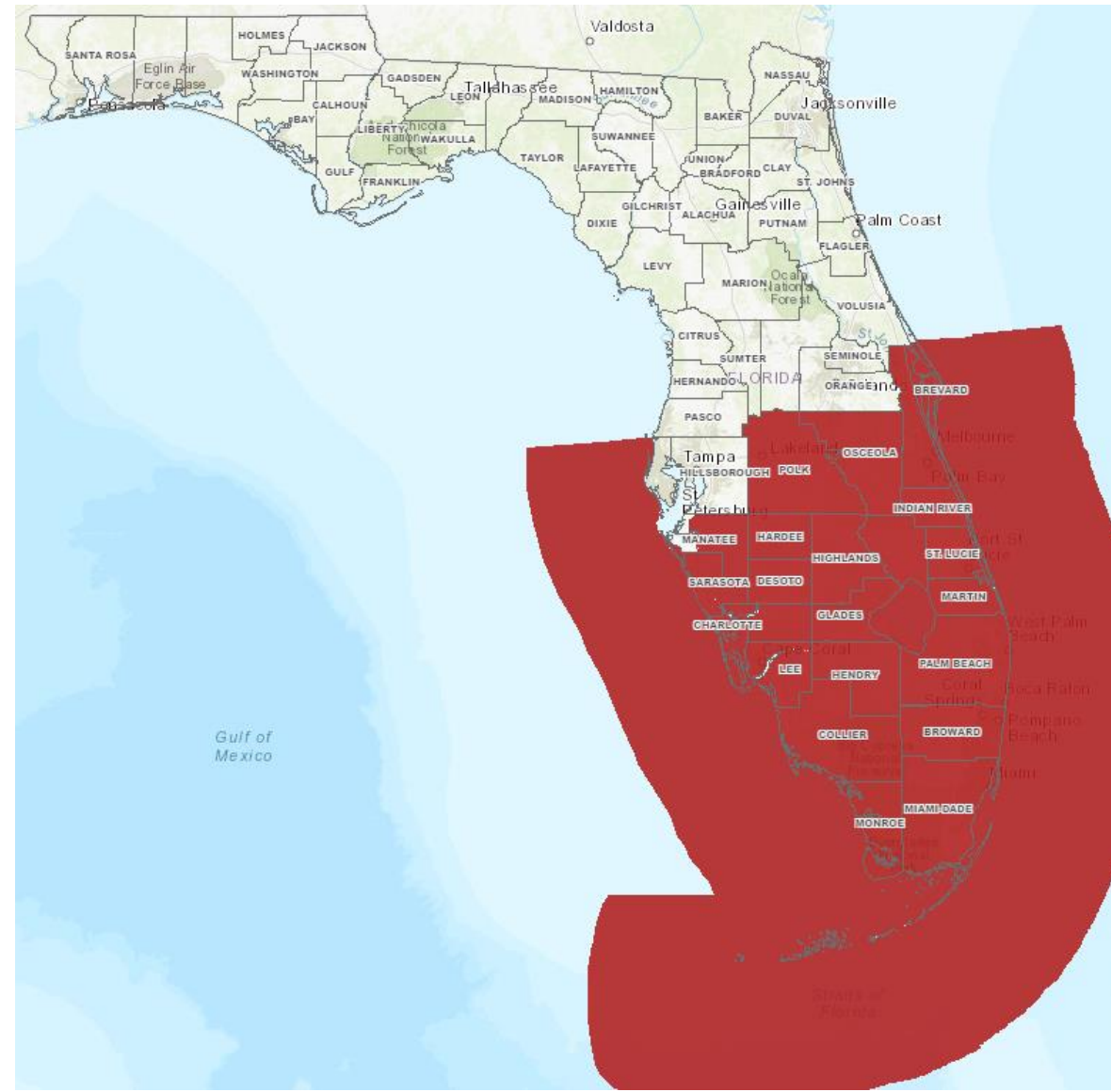


**Overview/Recent Changes:** *No major changes were made with the 11:00 AM EDT Advisory.* PTC #1 is located 430 miles southwest of Ft. Myers, and is moving northeastward near 5 mph. The system has maximum sustained winds of 40 mph, with locally higher gusts. Forecasts indicate that PTC #1 will become Tropical Storm Alex later today before moving across the southern Florida Peninsula on Saturday. Heavy rainfall leading to flash flooding continues to be the main concern, but gusty winds and isolated tornadoes are also possible. Minor coastal flooding and a high rip current risk is possible across Peninsula beaches. **Tropical Storm Warnings** are in effect in the Peninsula and the Florida Keys.



# Tropical Storm Warnings

## Potential Tropical Cyclone One

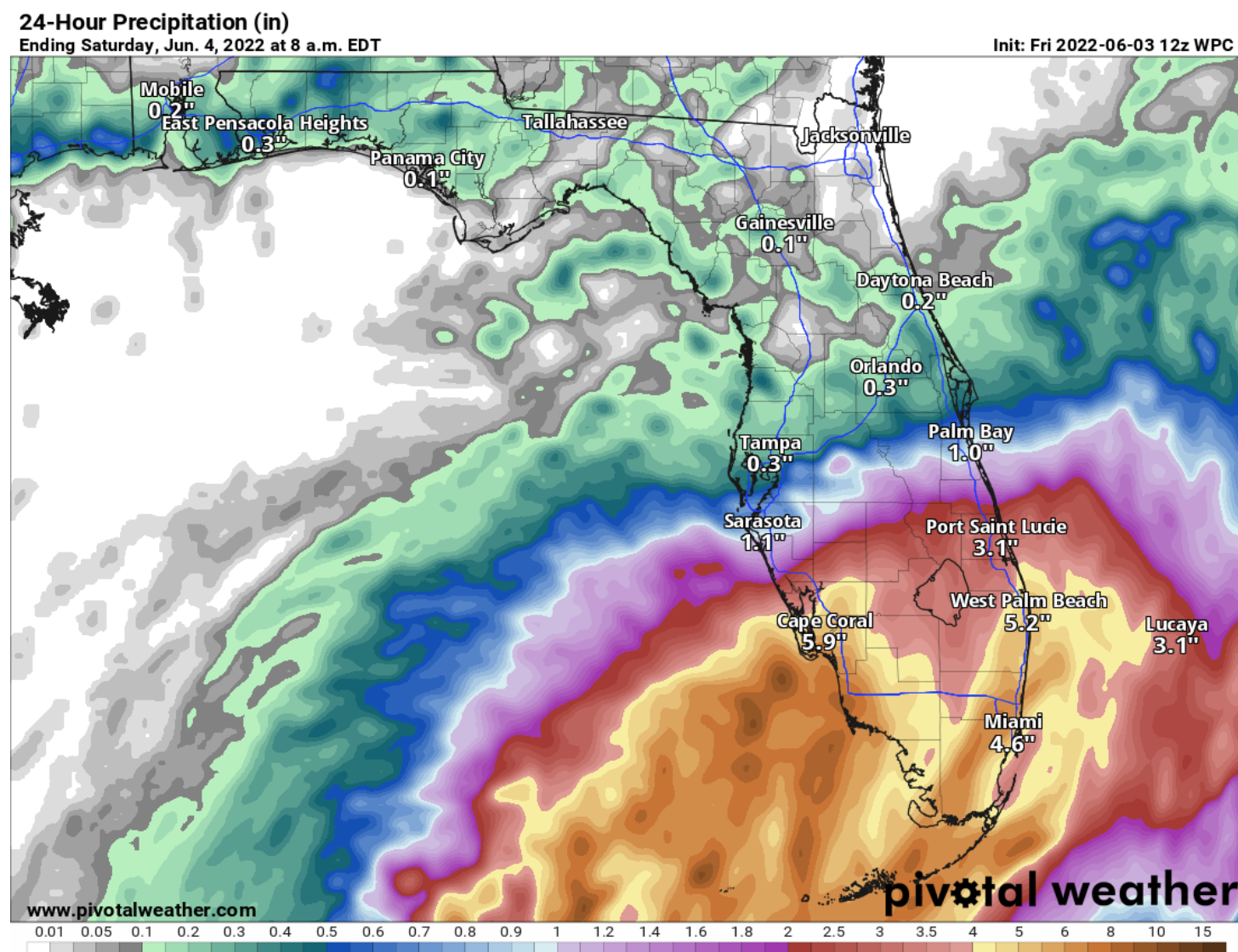


- Along the Florida West Coast from Longboat Key (Sarasota/Manatee border) southward through the entire Florida Keys.
- Along the Florida East Coast south of the Brevard/Volusia County line.
- Inland Tropical Storm Watches are also in effect for much of Central & South Florida.



# Rainfall Totals Next 24 Hours

Ending 8 AM ET Saturday



- Will continue to spread across South Florida today and continue through Saturday.
- **Through tonight**, a widespread 3-6" of rain is forecast across South Florida and, with higher isolated totals possible. 1-3" is possible across southern Central Florida and the Treasure Coast.





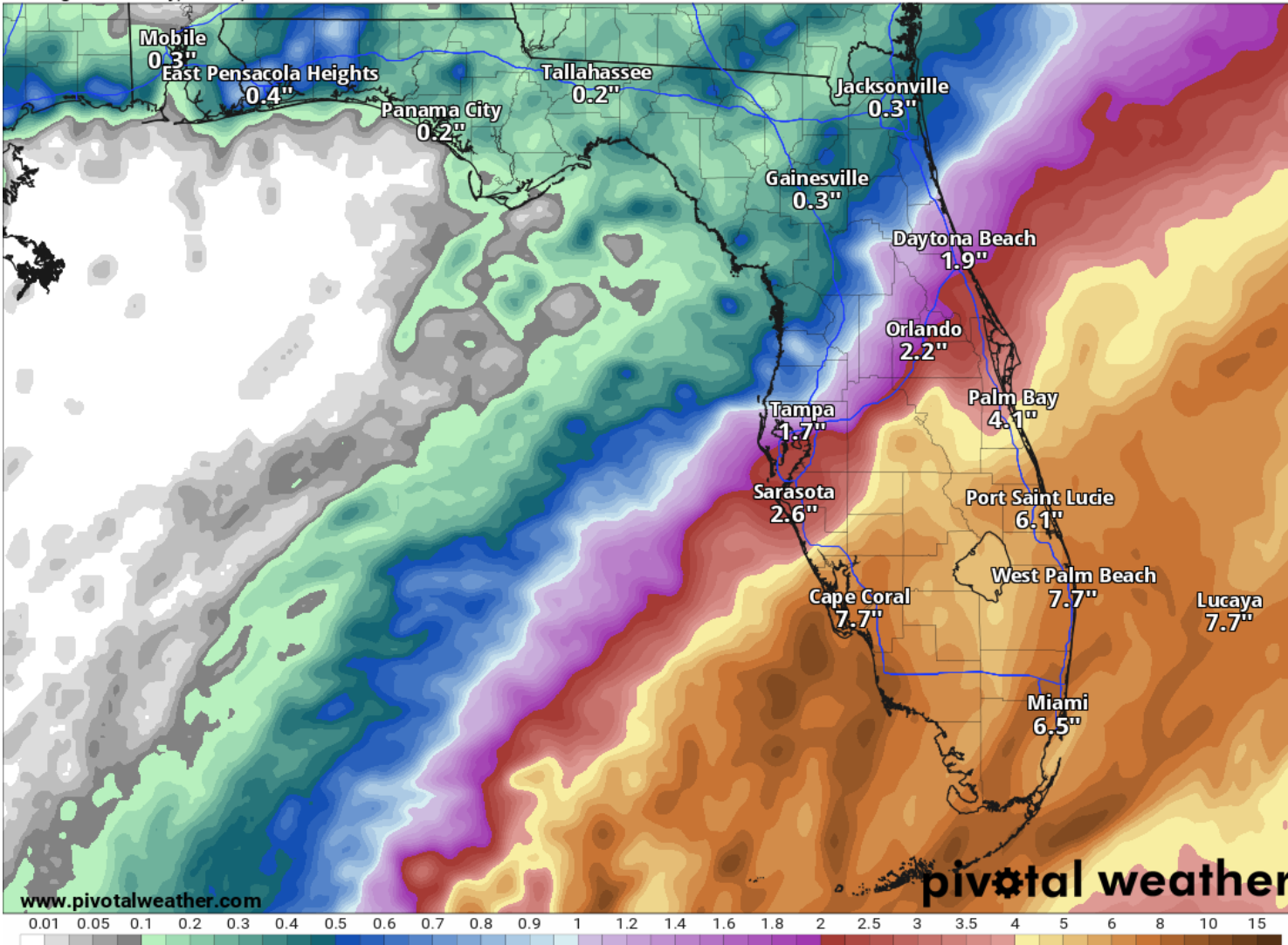
# Rainfall Totals Next 5 Days

Ending 8 AM ET Wednesday

120-Hour Precipitation (in)

Ending Wednesday, Jun. 8, 2022 at 8 a.m. EDT

Init: Fri 2022-06-03 12z WPC



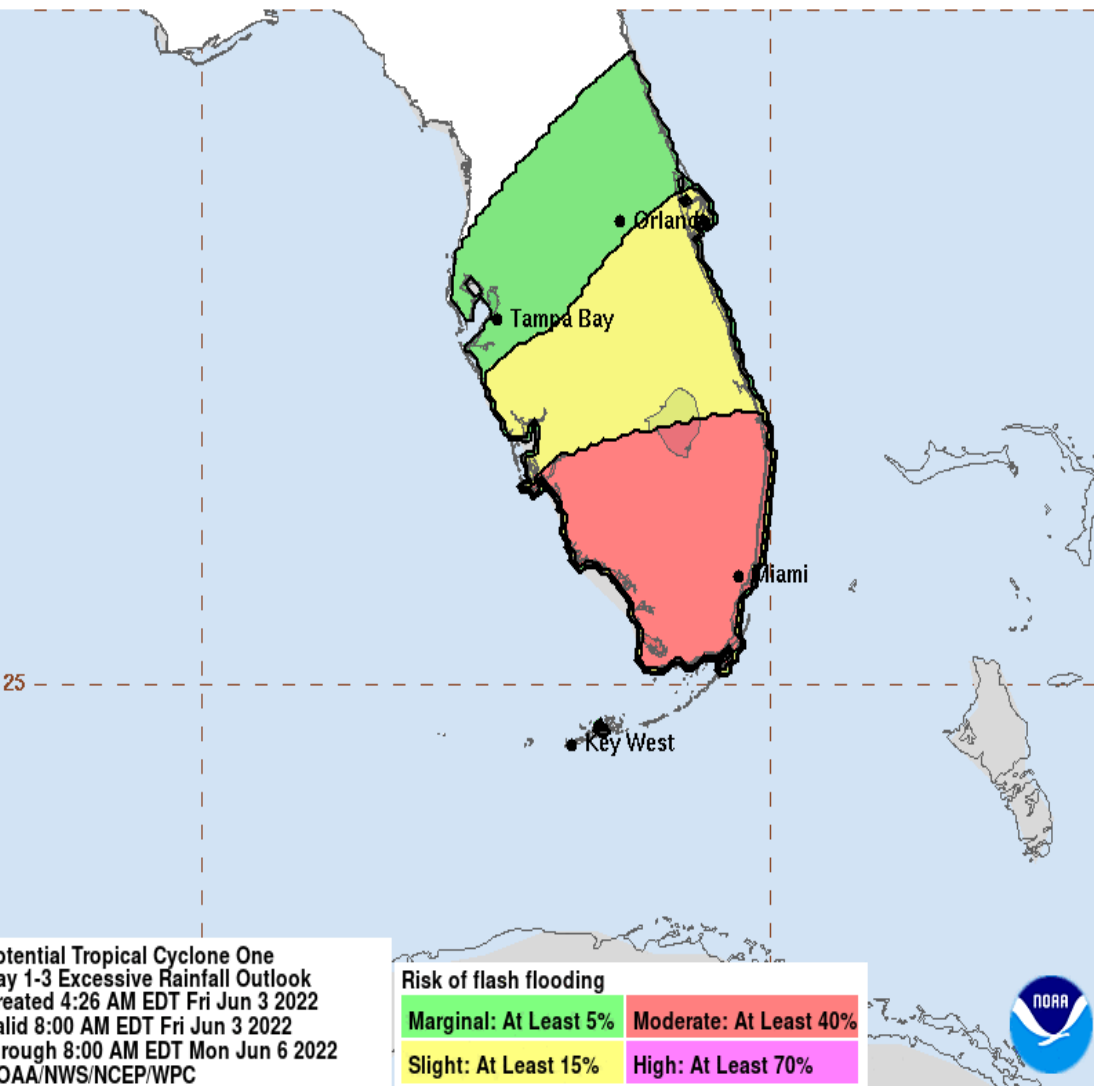
- A widespread 4-8" is currently being forecast for this weekend through Sunday, with localized areas of 12+".
- *Heavy rainfall totals could spread northward into Central Florida depending on the track and organization of the system!!*



# Flash Flood Outlooks

From the Weather Prediction Center ([LINK](#))

Greatest Flash Flood Risk Over the Next 3 Days

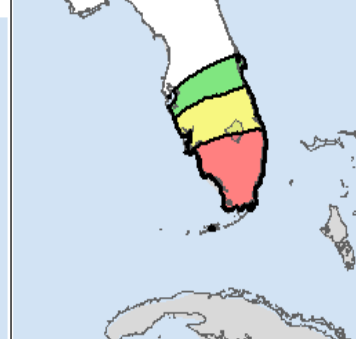


Potential Tropical Cyclone One  
Day 1-3 Excessive Rainfall Outlook  
Created 4:26 AM EDT Fri Jun 3 2022  
Valid 8:00 AM EDT Fri Jun 3 2022  
through 8:00 AM EDT Mon Jun 6 2022  
NOAA/NWS/NCEP/WPC

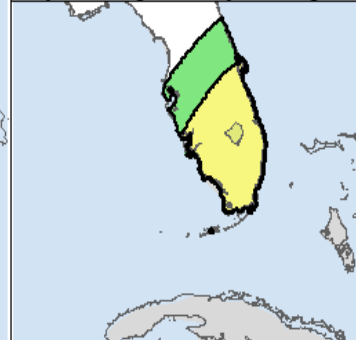
Risk of flash flooding

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

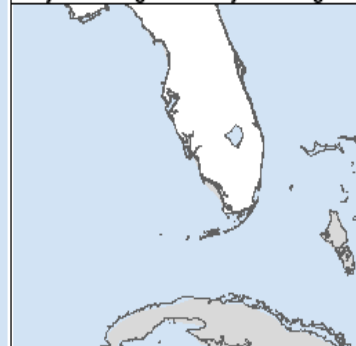
Day 1 Through Saturday morning



Day 2 Through Sunday morning



Day 3 Through Monday morning



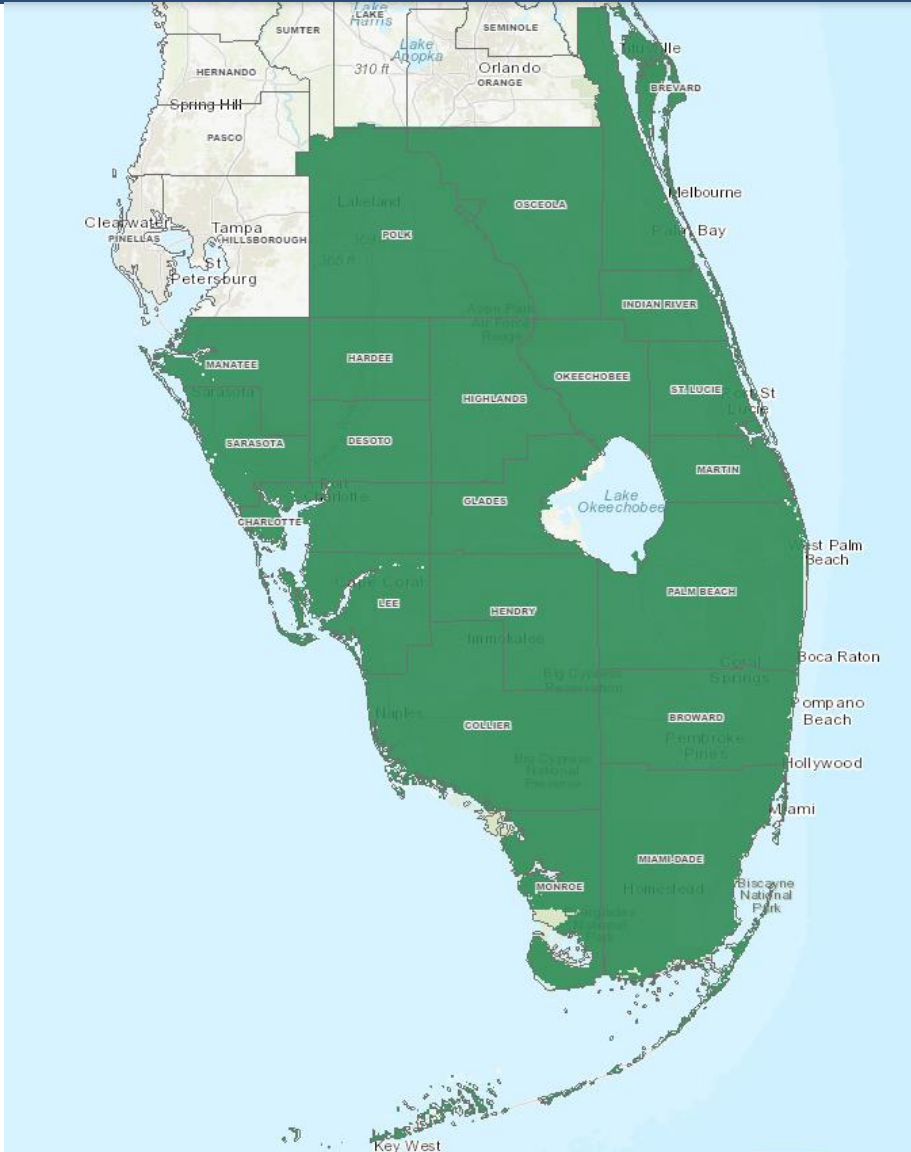
Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected. <a href="http://www.wpc.ncep.noaa.gov">@NWSWPC</a>	Isolated flash floods possible  Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Scattered flash floods possible  Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash floods likely  Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Widespread flash floods expected  Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
WEATHER PREDICTION CENTER				

Heavy rainfall could result in **considerable flash flooding** on Friday and Saturday across South Florida and the Florida Keys. Urban areas in Southeast Florida will be most at risk of impactful street flooding.



## From the National Weather Service



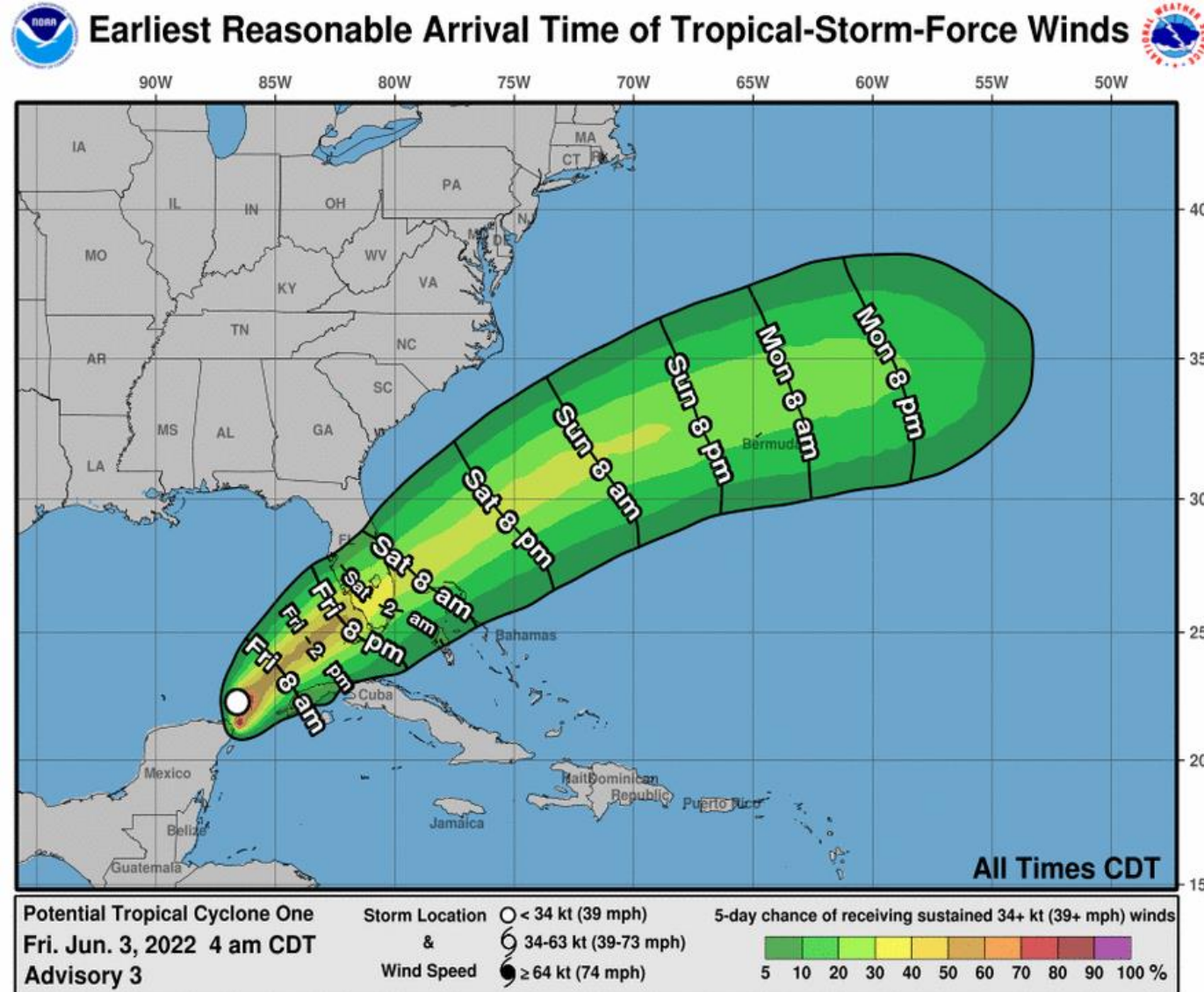
- **Flood Watch** in effect until Saturday Night or Sunday Morning
- Excessive runoff may result in flooding of rivers, creeks, streams, and other low-lying and flood-prone locations.
- Creeks and streams may rise out of their banks. Flooding may occur in poor drainage and urban areas.





# Time of Arrival of Winds

## From the National Hurricane Center (NHC)

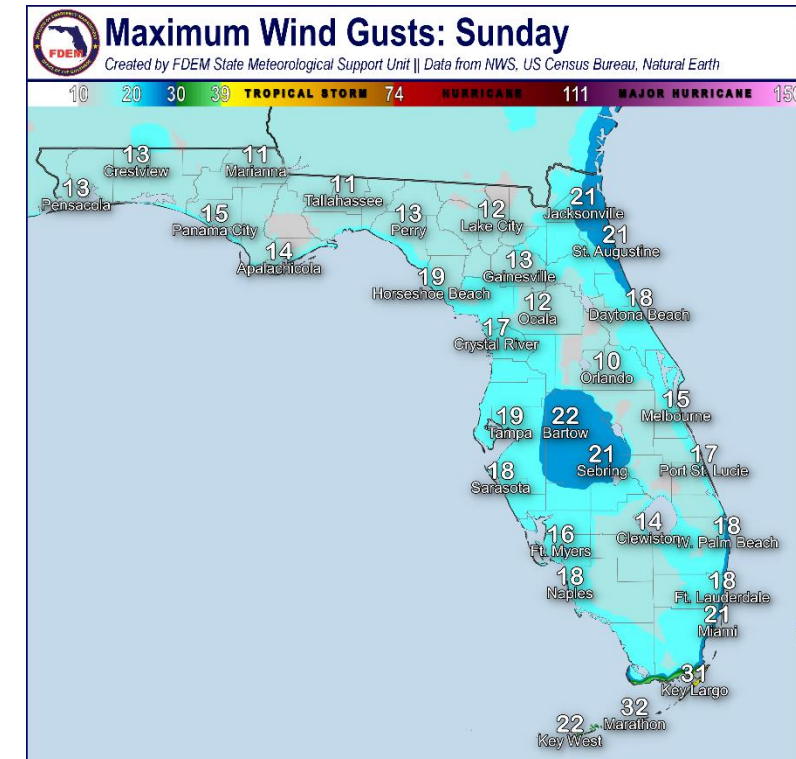
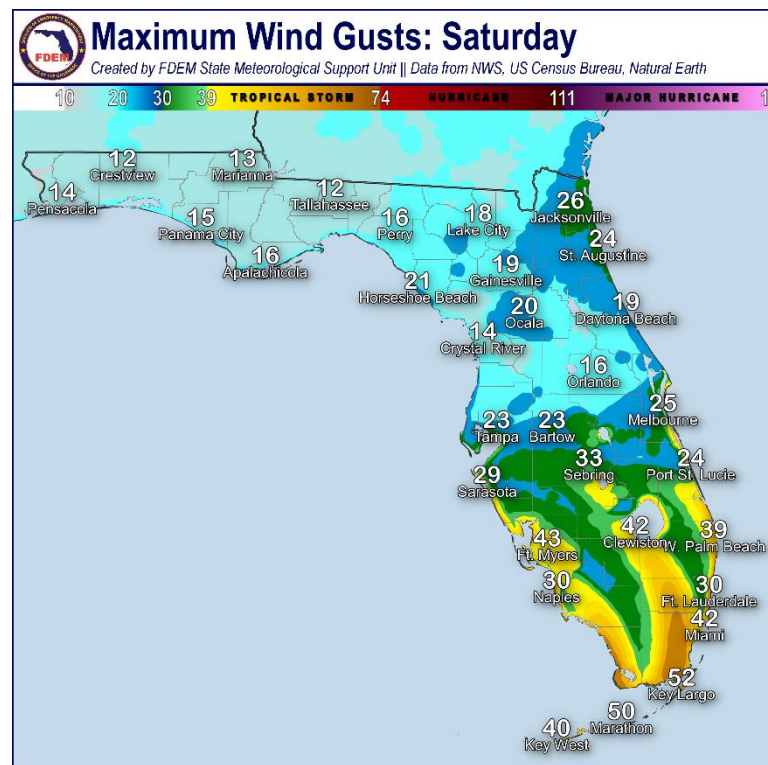
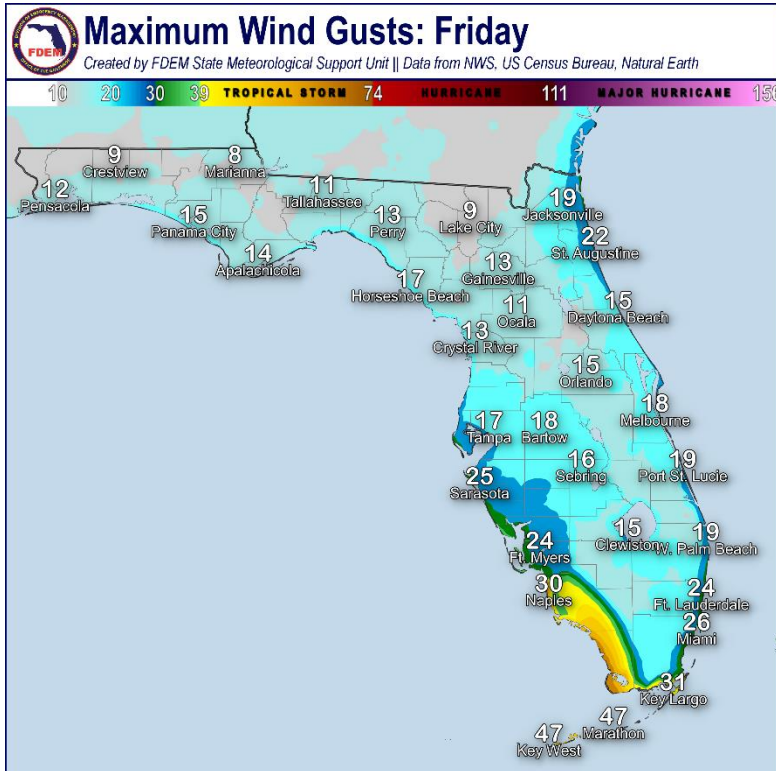






# Forecast Wind Gusts

\*\*\*Exact wind gusts will vary in time, magnitude, and location\*\*\*

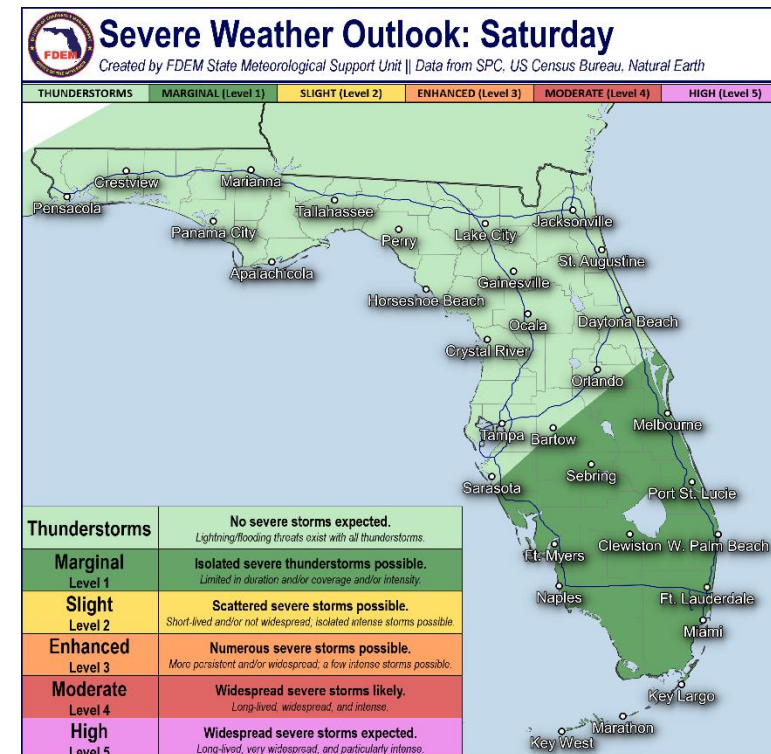
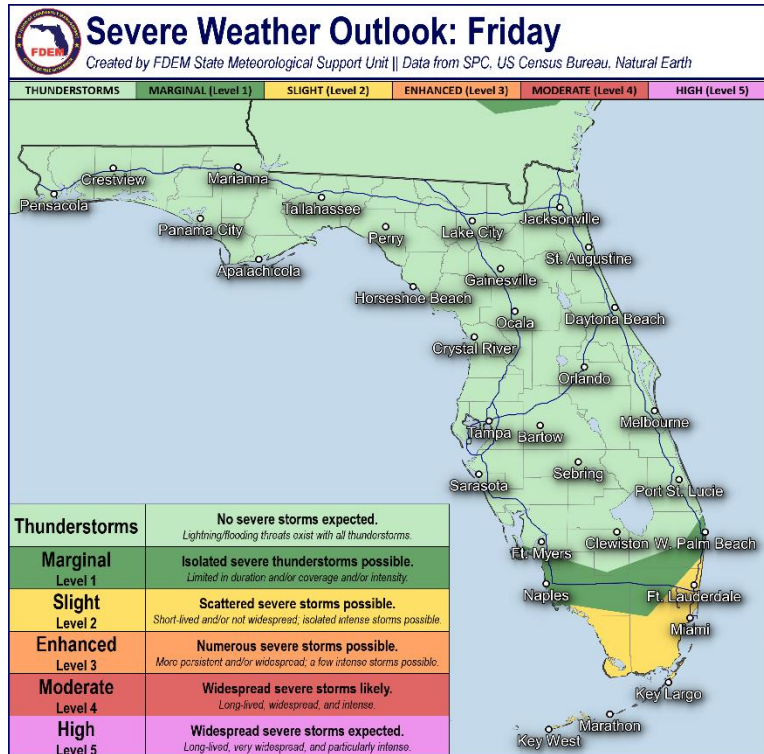


Winds will begin increasing Friday into Saturday as PTC One approaches South Florida. Tropical storm-force wind gusts will be possible (50-60 mph) over the Florida Keys and the southern Peninsula tonight into Saturday. Locally higher wind gusts cannot be ruled out within embedded tropical thunderstorms.



# Severe Weather Outlooks

## From the Storm Prediction Center (SPC)



## 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

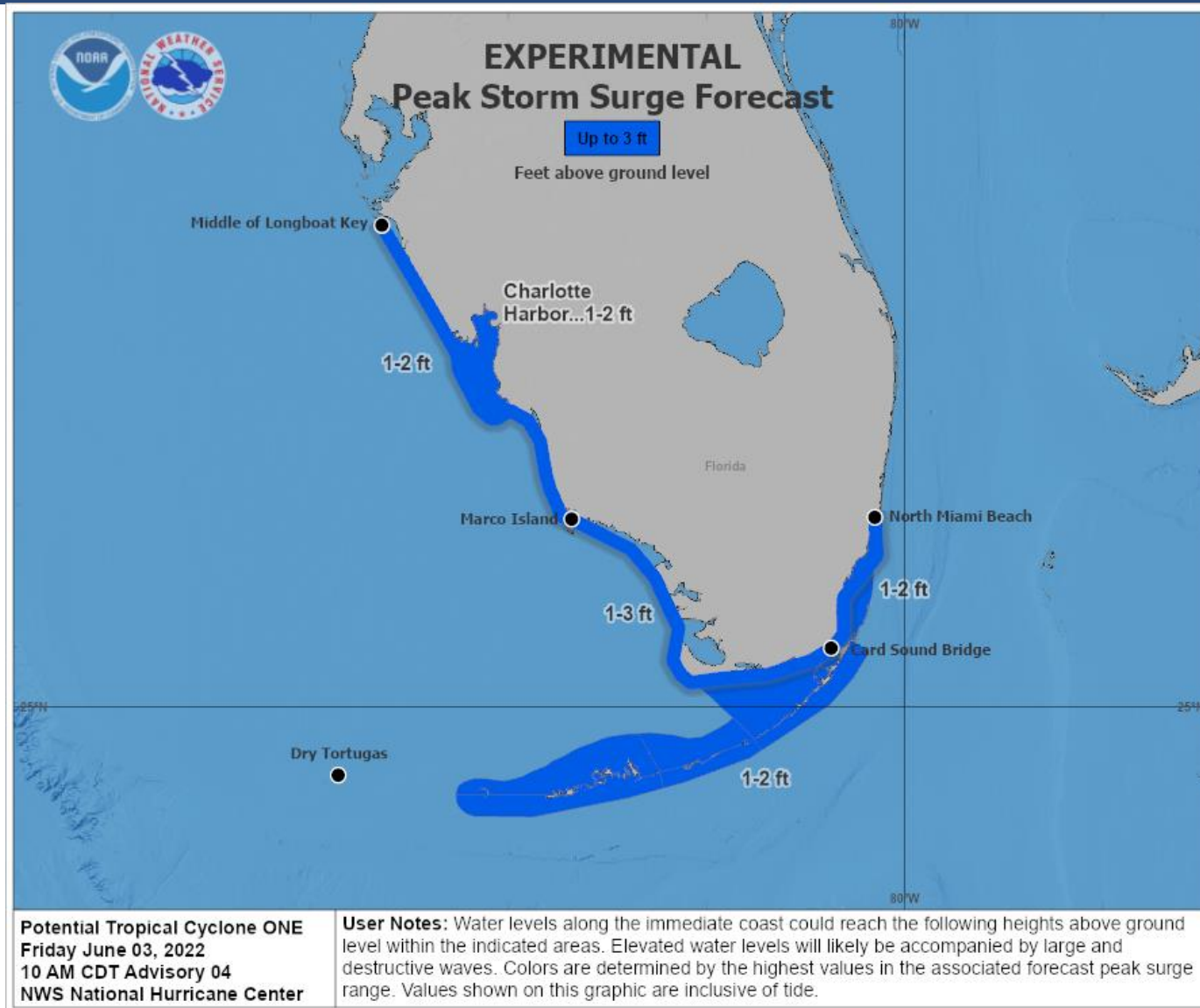
As PTC One approaches the southern Peninsula, isolated tornadoes cannot be ruled out along the Florida Keys this evening into tonight, and over South Florida Saturday. A **Slight Risk (level 2 of 5)** has been introduced over the far southern Peninsula today. The **Marginal Risk (level 1 of 5)** has been expanded into additional portions of Central & South Florida.





# Storm Surge Potential

From the National Hurricane Center (NHC)



- The combination of 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 in the indicated areas if the peak surge occurs at the time of high tide:
  - **Marco Island, FL to Card Sound Bridge...1-3 ft**
  - **Middle of Longboat Key, FL to Marco Island, Florida...1-2 ft**
  - **Charlotte Harbor...1-2 ft**
  - **Florida Keys and Dry Tortugas...1-2 ft**
  - **Card South to North Miami Beach...1-2 ft**
- Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances.
- For information specific to your area, please see products issued by your local National Weather Service forecast office.



# Key Messages for Potential Tropical Cyclone One

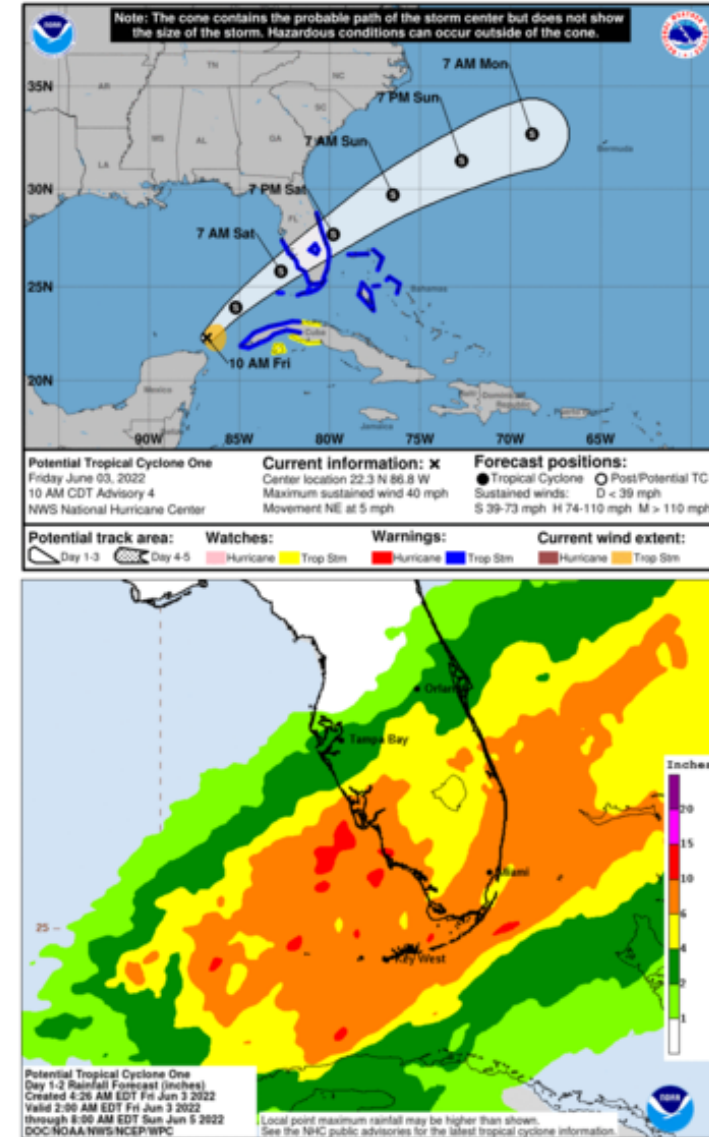
Advisory 4: 10:00 AM CDT Fri Jun 03, 2022



1. Heavy rain associated with the system is expected across western Cuba, where life-threatening flash flooding and mudslides are possible.

2. Heavy rain will affect portions of Central Florida, South Florida, and the Florida Keys today and continue through Saturday. Considerable flash and urban flooding is possible across South Florida and in the Keys. Flash and urban flooding is also possible across the northwestern Bahamas.

3. Tropical storm conditions are expected in the warning area in western Cuba today and tonight, in Florida tonight and on Saturday, and in the northwestern Bahamas on Saturday. Tropical storm conditions are also possible in the watch area in western Cuba today and tonight.



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





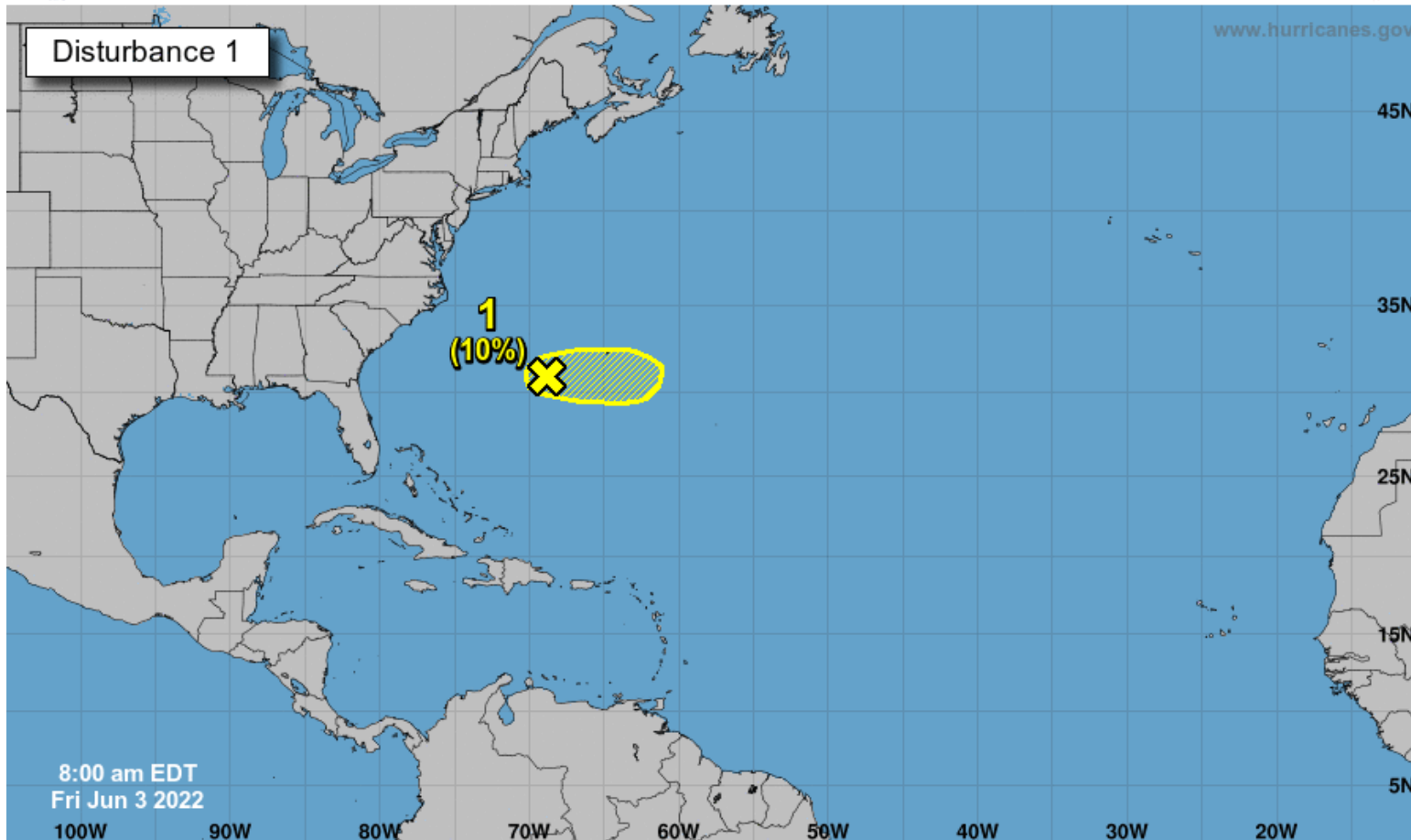
# Tropical Weather Outlook

Possible Area of Development During the Next 5 Days ([LINK](#))



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



A small area of low pressure located more than 200 miles west-southwest of Bermuda is producing a small area of showers and thunderstorms. This system only has a brief window for further development today before environmental conditions become increasingly unfavorable by this weekend. This system is expected to move generally eastward to the south of Bermuda.

*This system poses no threat to Florida.*

**\*Formation chance through 48 hours...low...10%**

**\*Formation chance through 5 days...low...10%**

Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%  
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane  
 Post-Tropical Cyclone or Remnants



# Overall Summary

## Potential Tropical Cyclone One:

- At 11:00 AM EDT, Potential Tropical Cyclone #1 (PTC #1) was located approximately 430 miles southwest of Fort Myers, Florida.
- The system is moving toward the northeast near 5 mph, and this motion is expected to continue. An increase in forward speed is expected to begin later today and continue this weekend. On the forecast track, PTC#1 is forecast to move across the southeastern Gulf of Mexico through tonight, across the central and southern Peninsula Saturday, and then into the southwestern Atlantic Sunday.
- Maximum sustained winds are near 40 mph, with higher gusts. PTC #1 is expected to develop a well-defined center and become Tropical Storm Alex later today.
- Some slight strengthening is possible as it approaches the Florida coastline, however significant intensification is not anticipated.
- A Tropical Storm Warning has been issued from Longboat Key (Sarasota/Manatee border) southward along the Florida West Coast, the entire Florida Keys, and along the Florida East Coast south of the Brevard/Volusia County line. Inland Tropical Storm Warnings are also in effect for much of Central & South Florida.

## Western Atlantic Low:

- A small area of low pressure located more than 200 miles west-southwest of Bermuda is producing a small area of showers and thunderstorms.
- This system only has a brief window for further development today before environmental conditions become increasingly unfavorable by this weekend.
- This system is expected to move generally eastward to the south of Bermuda, and this system poses no threat to Florida.
- There is a low chance (10%) of formation over the next 48 hours and 5 days.

## Florida Outlook:

- By this evening, more intense bands of showers and storms could move onshore and will continue to affect portions of South Florida (mainly south of Lake Okeechobee) overnight through Saturday afternoon.
- By Saturday morning, widespread rain could begin to affect Central Florida areas near and north of Lake Okeechobee and should continue through Saturday evening.
- Although Tropical Storm Warnings are in effect and wind gusts could reach 50-60 mph, heavy rainfall will be the main threat.
- A widespread 4-8" of rain is forecast for South Florida and the Florida Keys Friday and Saturday with locally higher amounts up to 12" possible.
- A Flood Watch is in effect for much of Central and South Florida. Recent above normal rainfall across South Florida may lead to a **quicker onset** of flash flooding.
- Isolated waterspouts/tornadoes are also possible across South Florida tonight, reaching the I-4 corridor Saturday morning.
- Minor coastal flooding around high tide is possible along the Florida Keys and Southwest Florida.

The next briefing packet will be provided this evening. 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

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