



TROPICAL UPDATE



5:00 PM EDT

Thursday, June 2, 2022

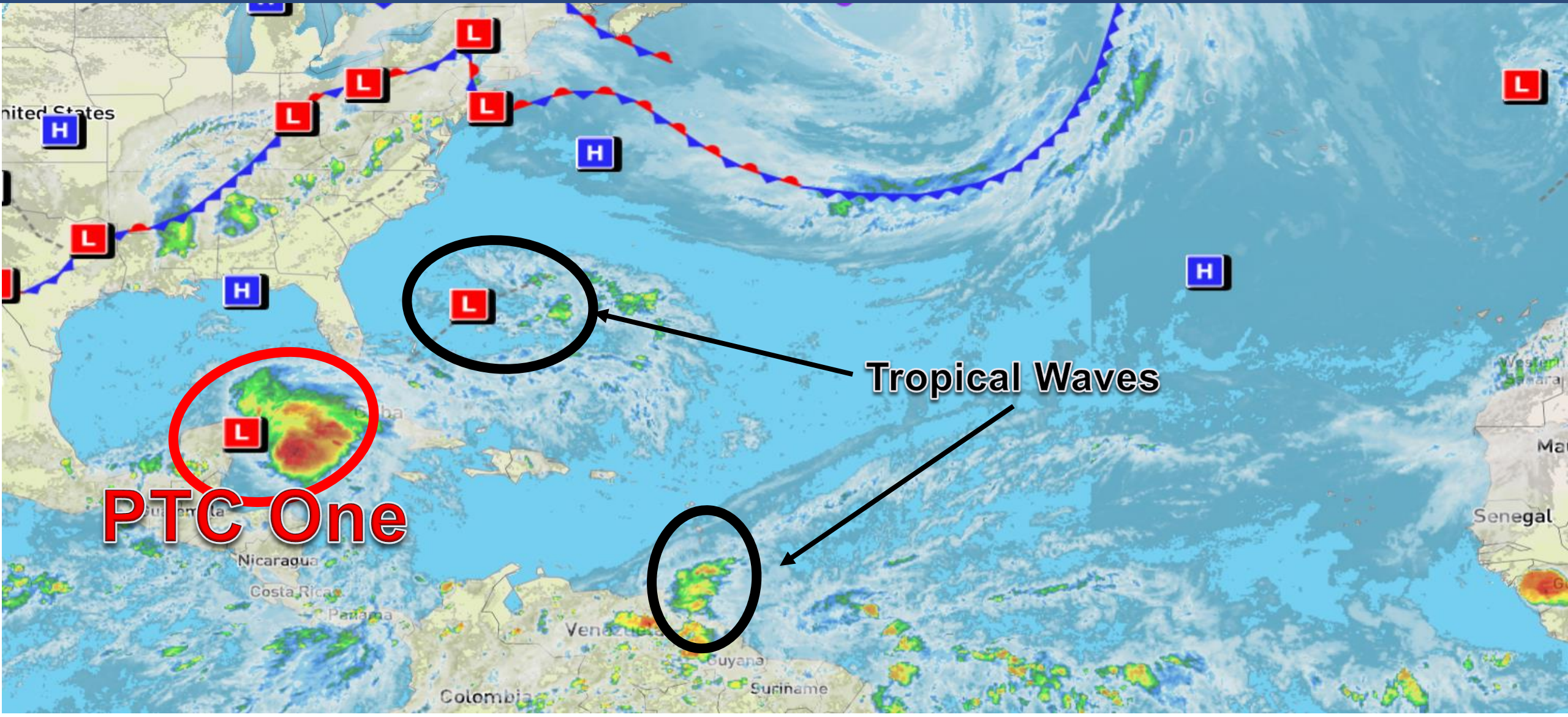
Potential Tropical Cyclone One

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.



Atlantic Basin Satellite Image

Chance of development: — None — Low — Medium — High





5 PM EDT Thursday: Florida Threats & Changes Since Last Packet

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Potential Tropical Cyclone One
Thursday June 02, 2022
4 PM CDT Advisory 1
NWS National Hurricane Center

Current information: x
Center location 21.4 N 87.5 W
Maximum sustained wind 35 mph
Movement N at 5 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 Day 4-5
Watches: Hurricane Trop Stm
Warnings: Hurricane Trop Stm
Current wind extent: Hurricane Trop Stm

Invest 91L has been designated as Potential Tropical Cyclone #1 and is expected to become a tropical depression tonight. Forecasts indicate that PTC #1 will become Tropical Storm Alex 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 moderate rip current risk is possible across South Florida and along Atlantic beaches.

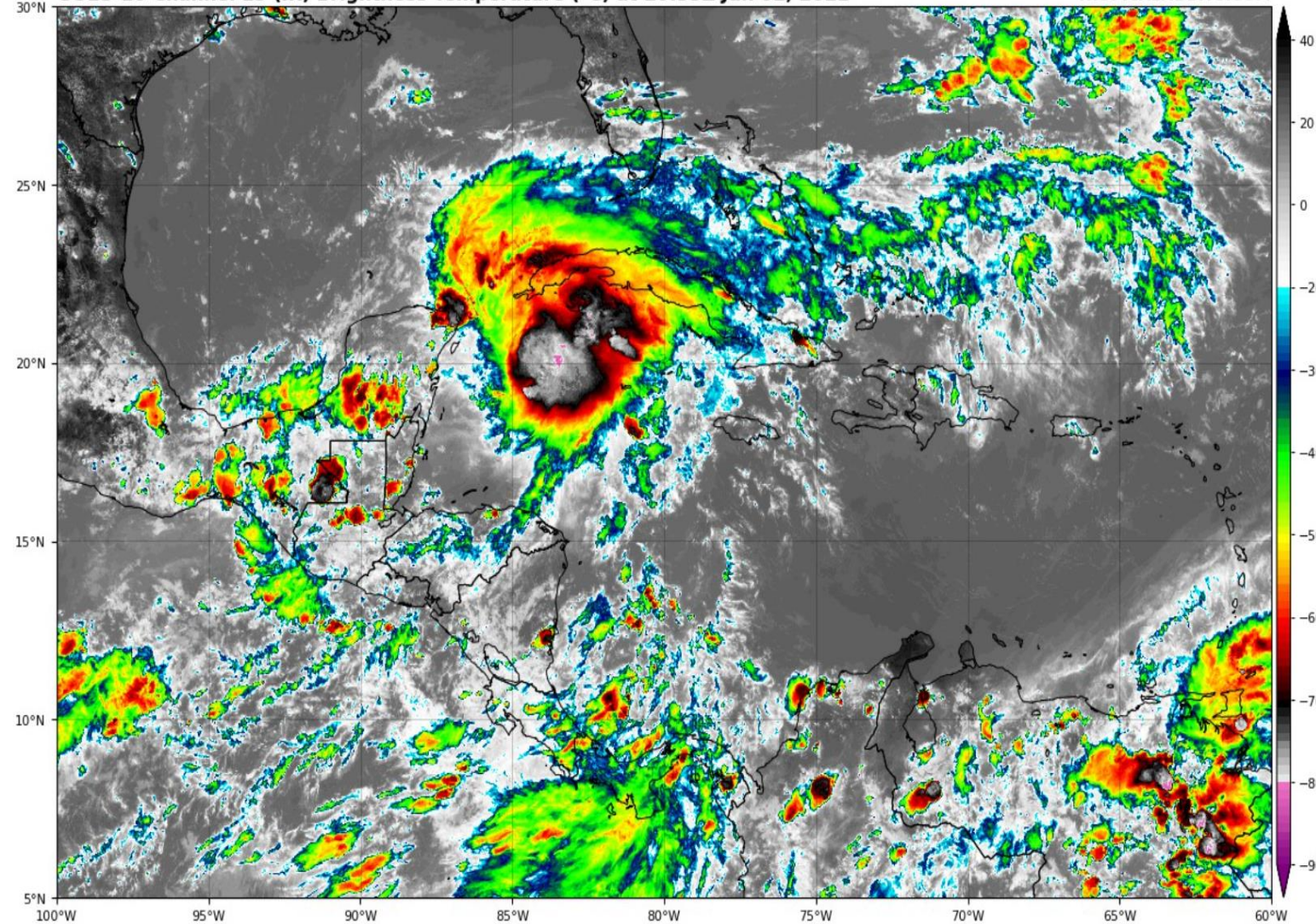


Satellite Imagery

Potential Tropical Cyclone One

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 20:55Z Jun 02, 2022

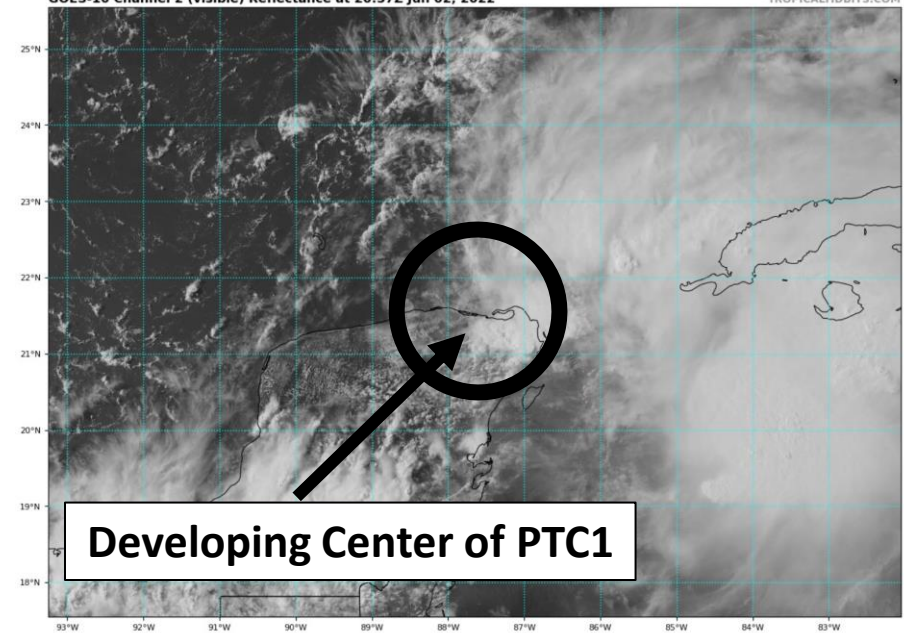
TROPICALTIDBITS.COM



PTC #1 remains broad and disorganized with most of the thunderstorm activity displaced on the eastern side due to wind shear. A developing center if the system is located near the northeastern tip of the Yucatan Peninsula.

GOES-16 Channel 2 (visible) Reflectance at 20:57Z Jun 02, 2022

TROPICALTIDBITS.COM



Developing Center of PTC1



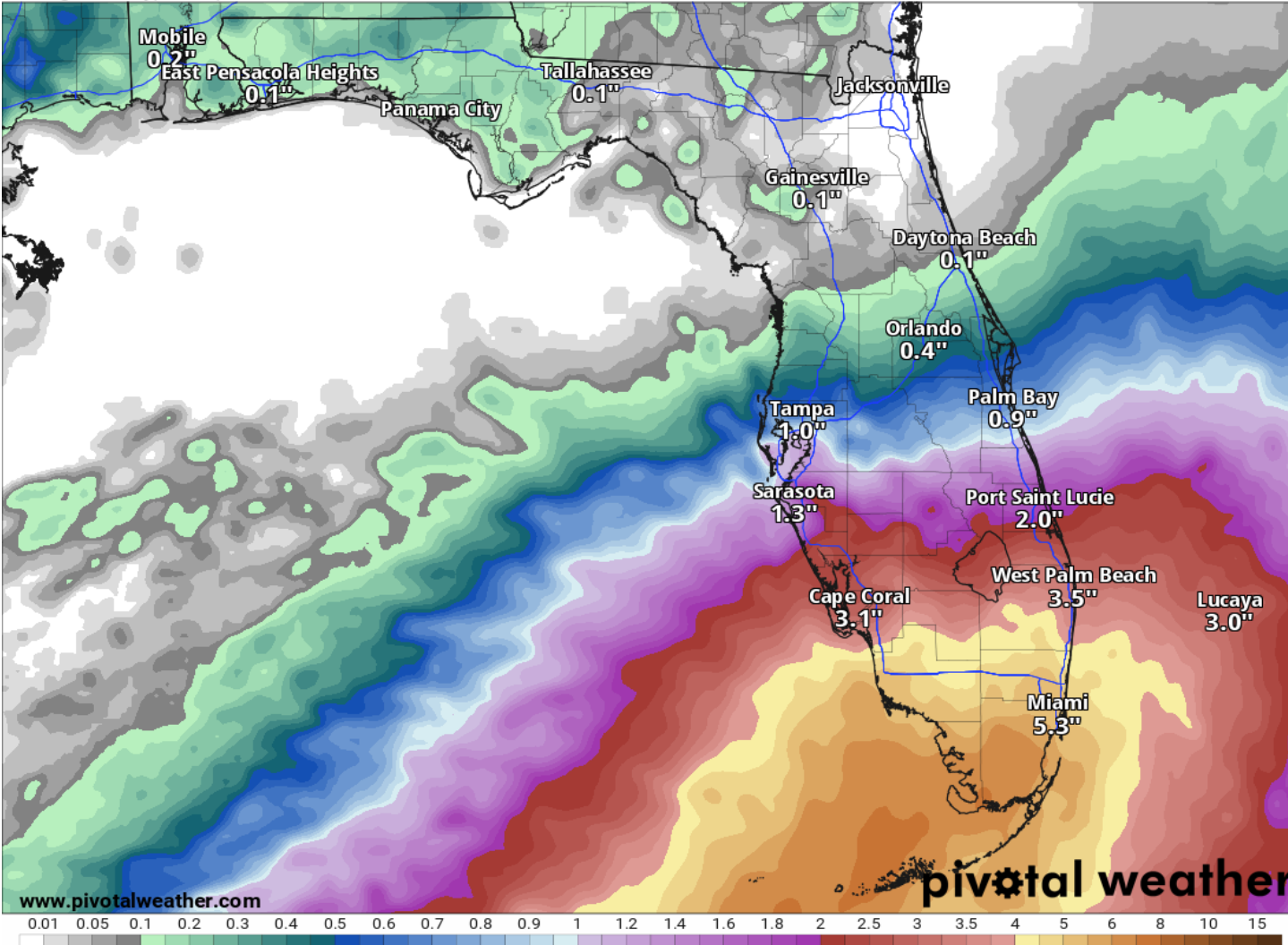
Rainfall Totals Next 48 Hours

Ending 8 AM ET Saturday

48-Hour Precipitation (in)

Ending Saturday, Jun. 4, 2022 at 8 a.m. EDT

Init: Thu 2022-06-02 12z WPC



- Heavy rainfall is expected to begin in South Florida Friday and continue through Saturday.
- **Through Friday night**, 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.



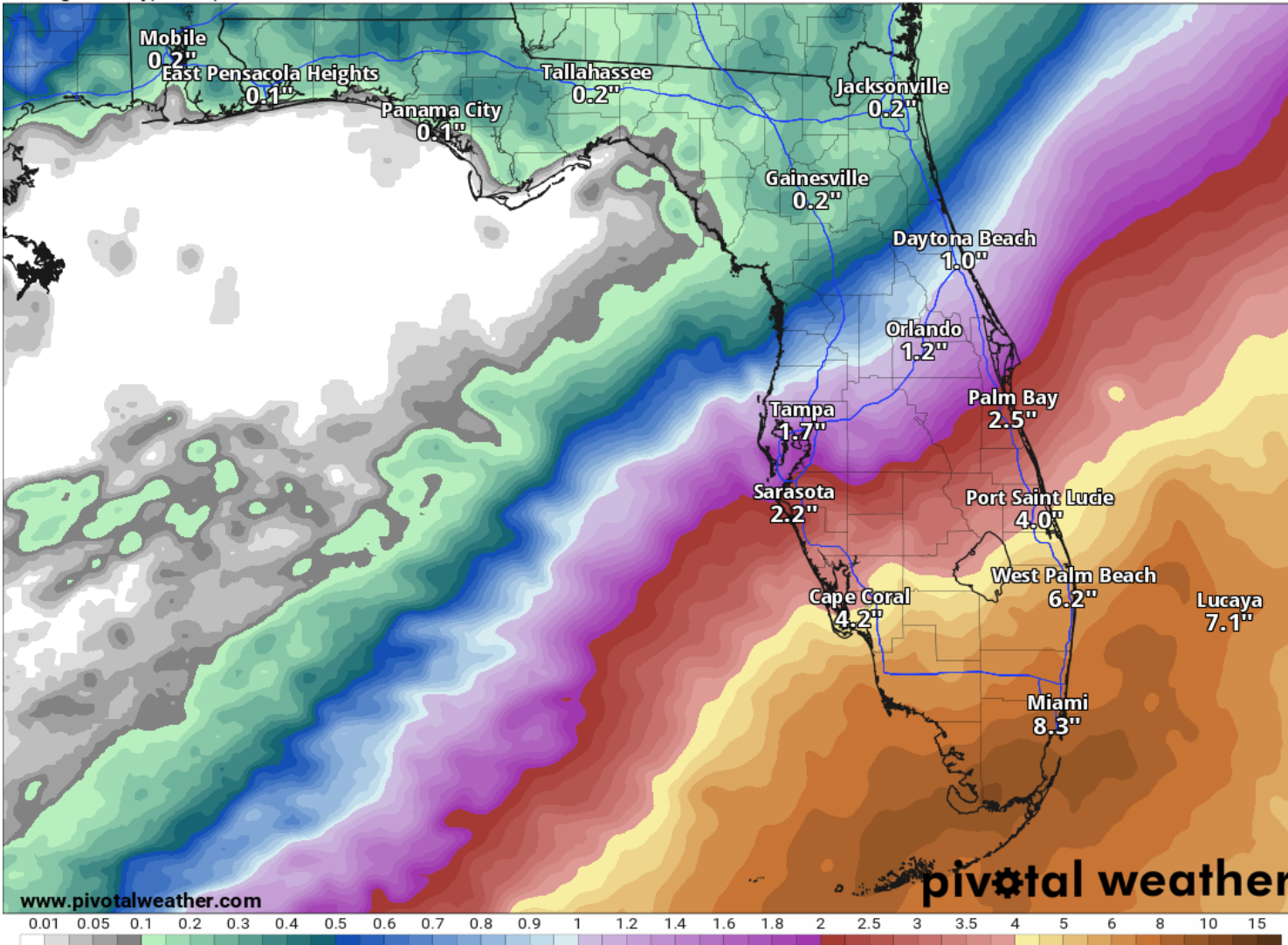
Rainfall Totals Next 5 Days

Ending 8 AM ET Tuesday

120-Hour Precipitation (in)

Ending Tuesday, Jun. 7, 2022 at 8 a.m. EDT

Init: Thu 2022-06-02 12z WPC

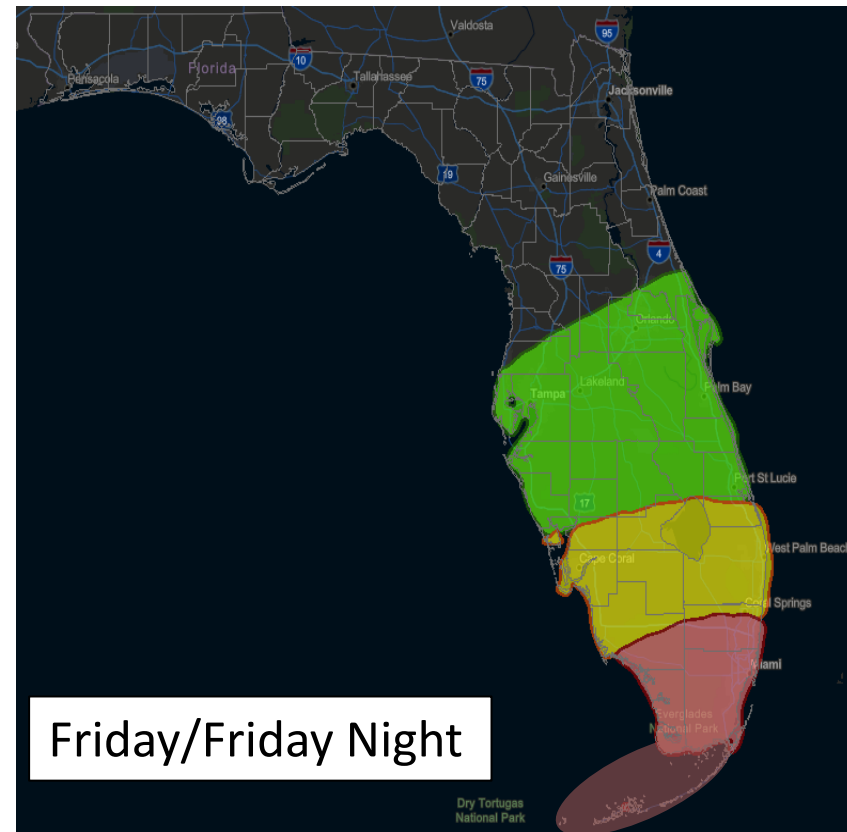


- A widespread 4-8" is currently being forecast for this weekend through Sunday, with localized areas of 12+".
- *Heavy rainfall totals could spread northward into Central Florida depending on the track and organization of the system!!*

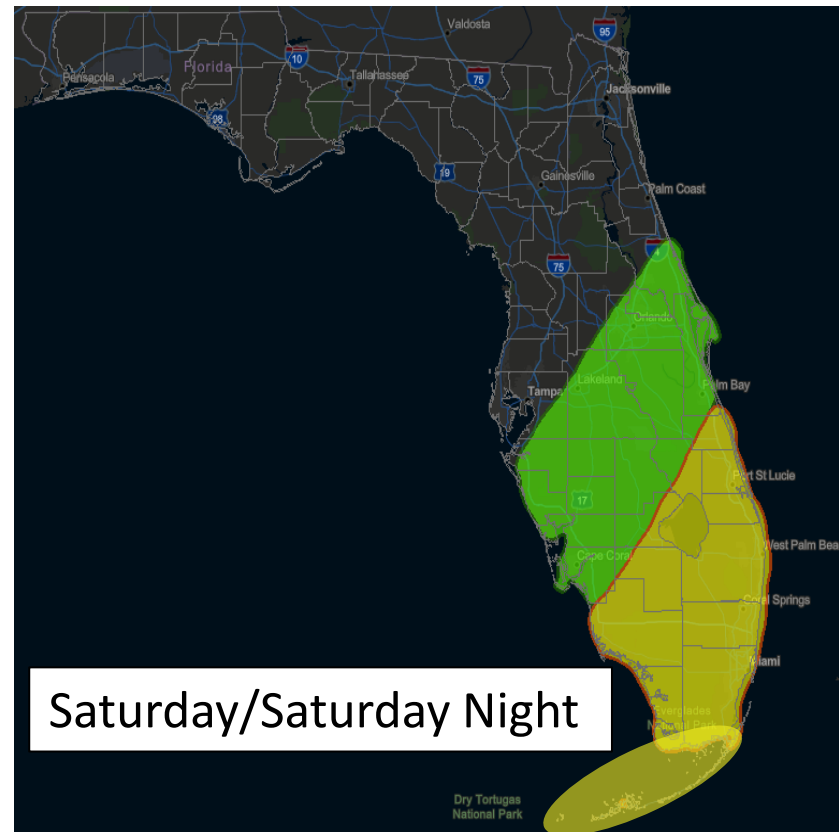


Flash Flood Outlooks Fri./Sat.







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



Friday/Friday Night



Saturday/Saturday 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.	
@NWSWPC				
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
NO Flash Flooding				
 				
WEATHER PREDICTION CENTER				

Risk of rainfall exceeding flash flood guidance within 25 miles of a point

HIGH: At Least 70% **SLGT: At Least 15%**

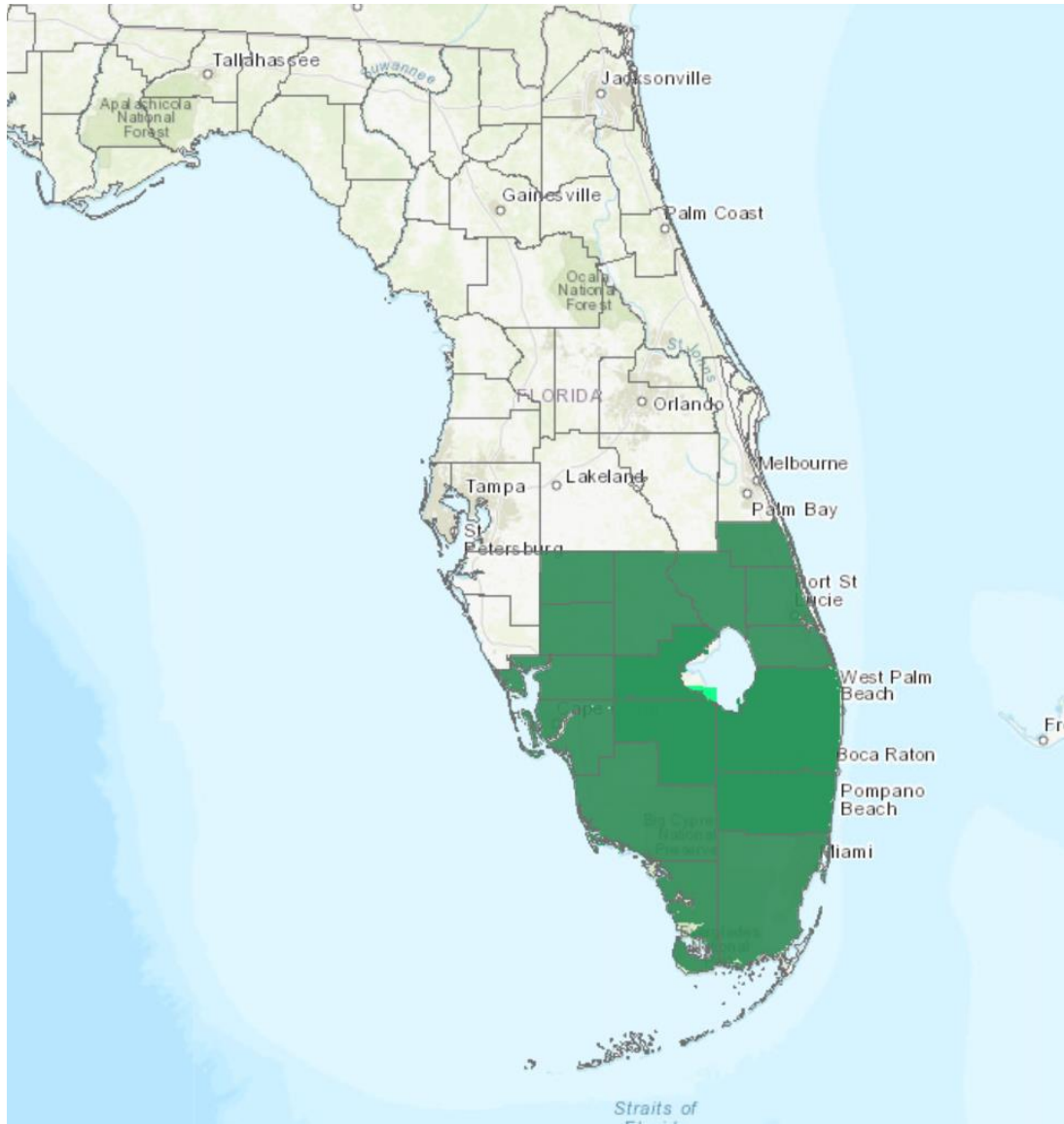
MDT: At Least 40% **MRGL: At Least 5%**

Heavy rainfall could result in 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.



Flood Watch

From the National Weather Service



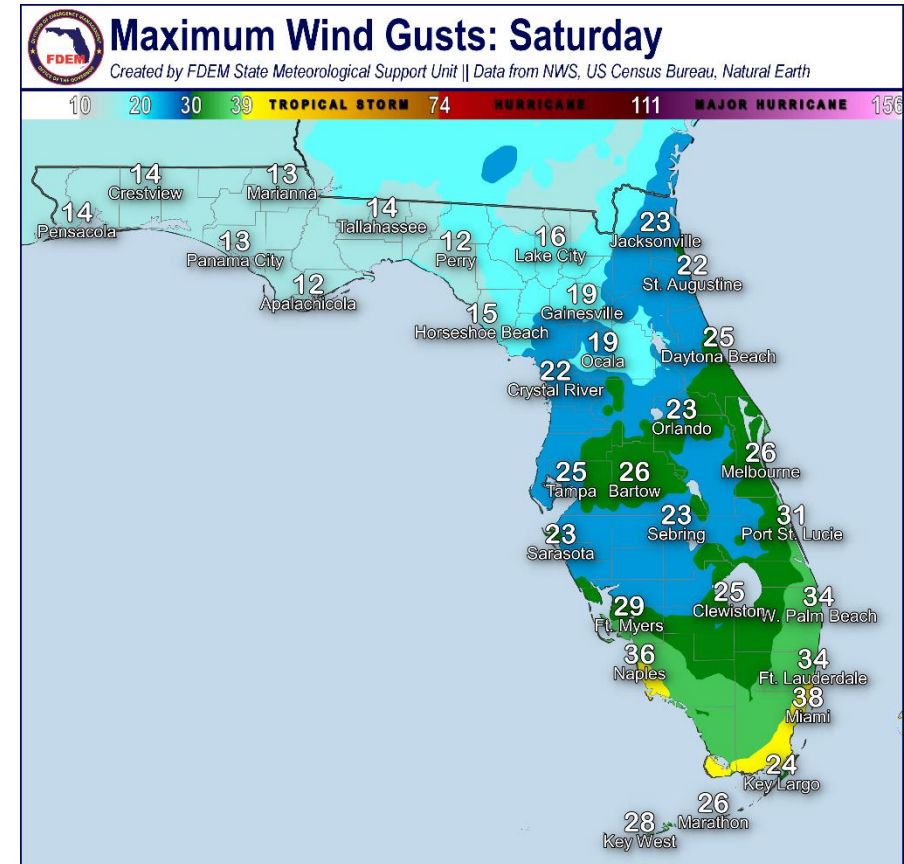
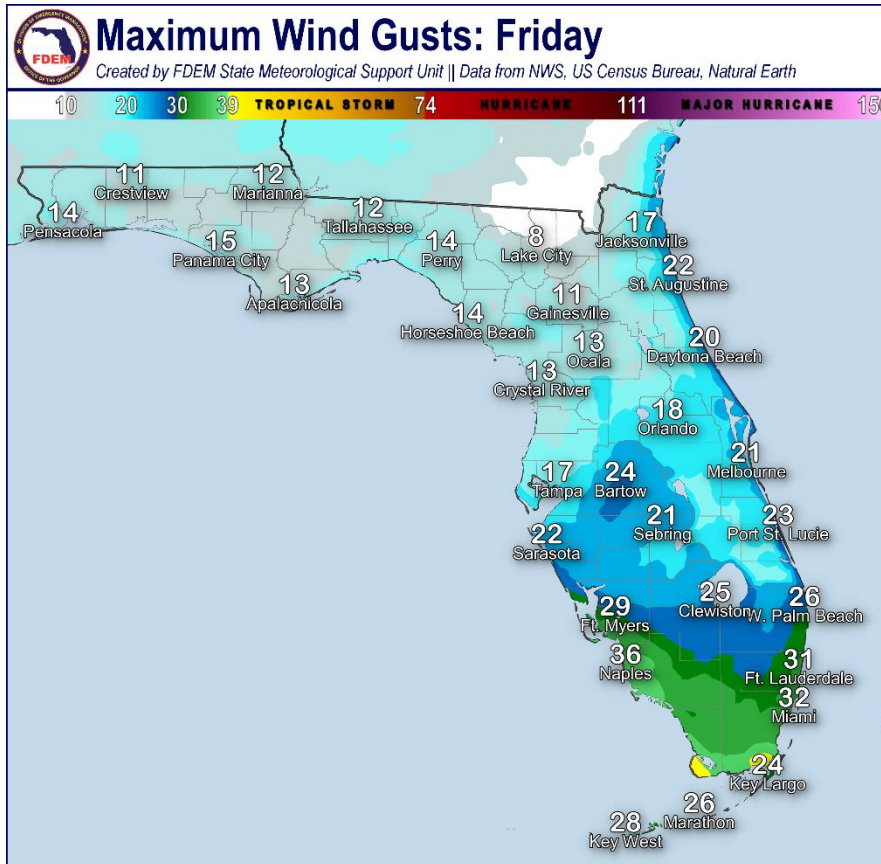
Areal Flood Watch in effect until
Saturday Night or Sunday Morning

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.



Forecast Wind Gusts

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

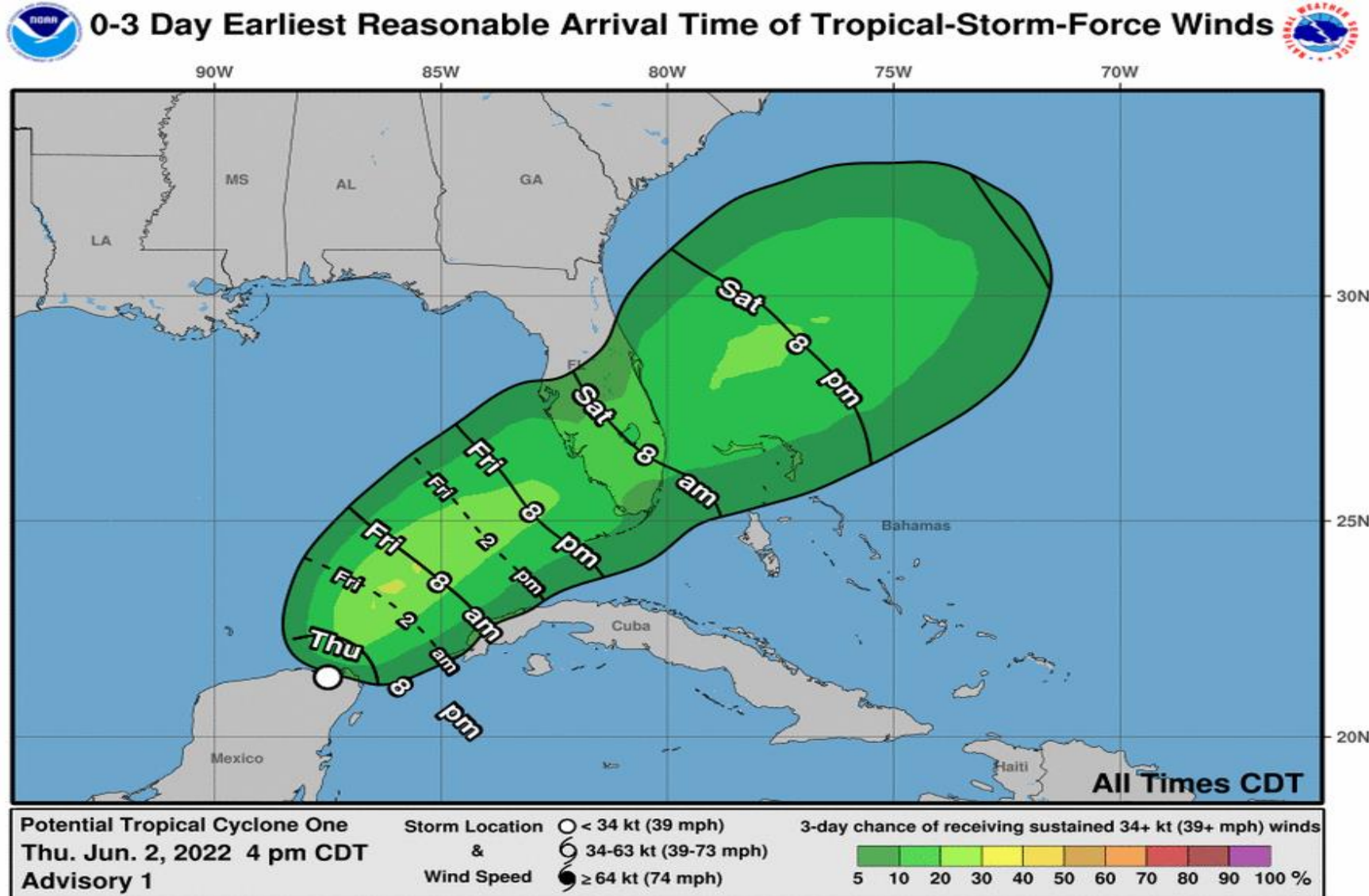


Winds will begin increasing Friday into Saturday as PTC One approaches South Florida. Tropical storm-force wind gusts will be possible over the Florida Keys and the southern Peninsula Friday night or Saturday morning. Locally higher wind gusts cannot be ruled out within embedded thunderstorms.



Time of Arrival of Winds

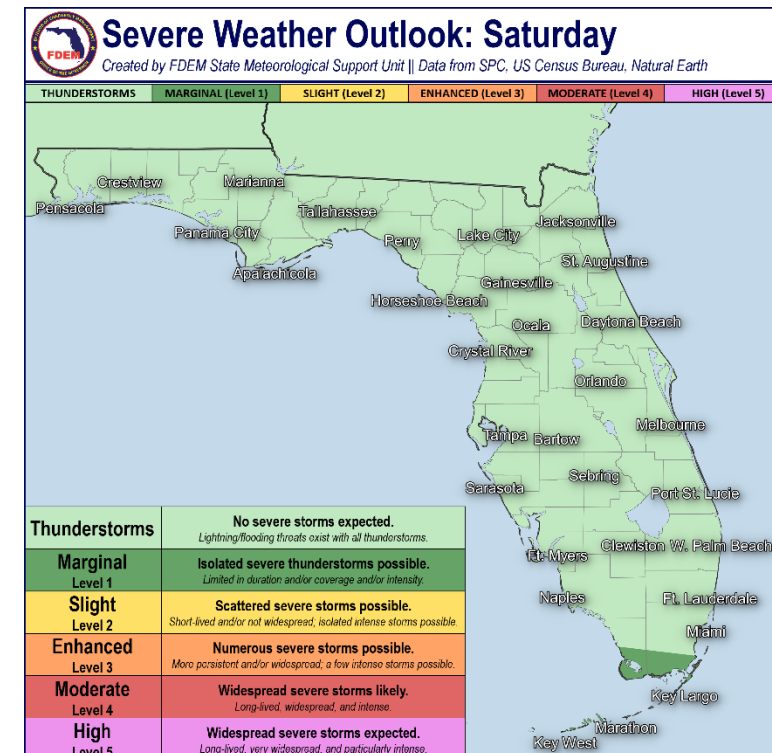
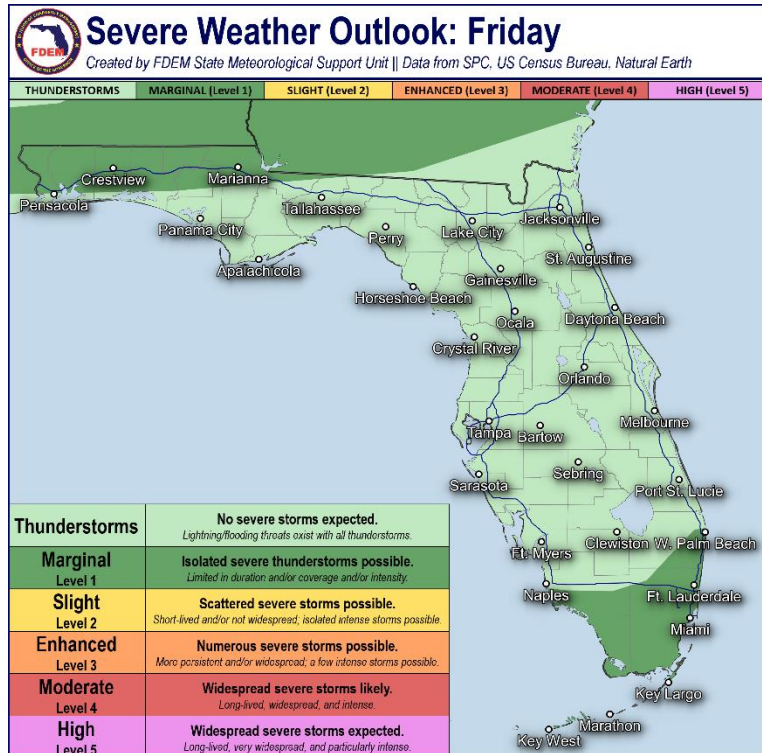
From the National Hurricane Center (NHC)





Severe Weather Outlooks

From the Storm Prediction Center (SPC)



Understanding Severe Thunderstorm Risk Categories

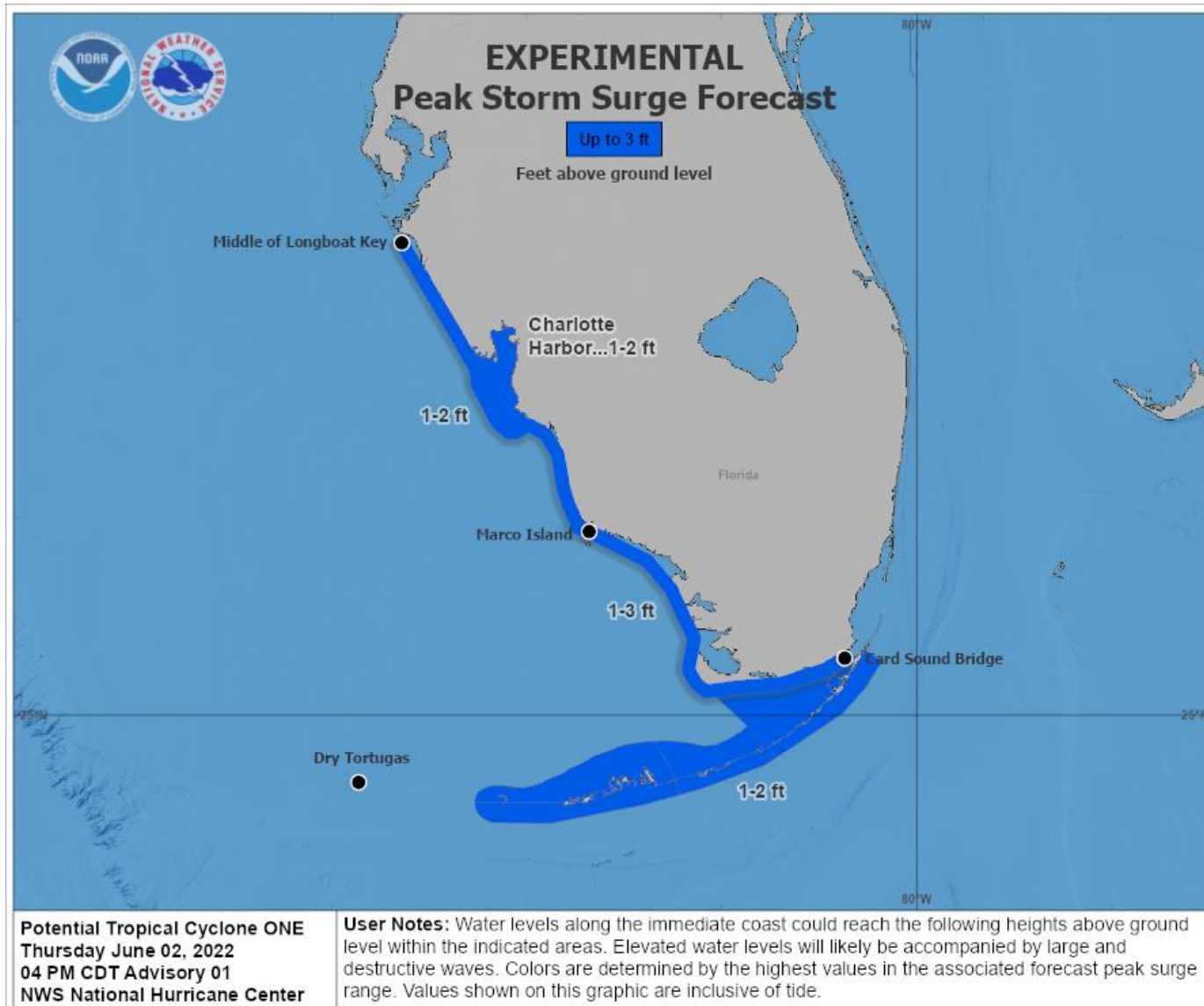
THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe 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 Friday, isolated tornadoes cannot be ruled out along the Florida Keys Friday night, and over South Florida Saturday. The **Marginal Risk (level 1 of 5)** has been expanded into additional portions of 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
- 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

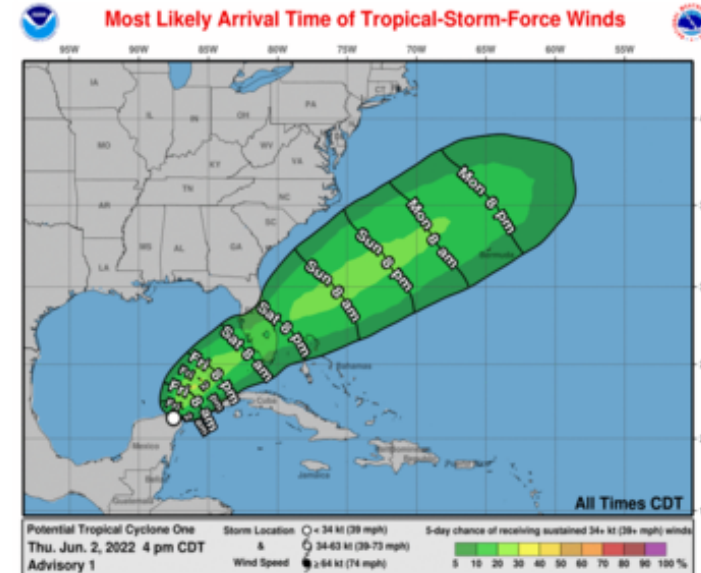
Advisory 1: 4:00 PM CDT Thu Jun 02, 2022



1. Heavy rain associated with the system is expected to continue through Friday across the eastern portions of the Yucatan Peninsula, the Cayman Islands and western Cuba. Life-threatening flash flooding and mudslides are possible across western Cuba.

2. Heavy rain will begin to affect South Florida and the Florida Keys Friday and continue through Saturday. Considerable flash and urban flooding is possible across the urban corridors in South Florida and in the Keys.

3. Tropical storm conditions are possible in the watch area in western Cuba Friday and Friday night, and are possible in the watch area in the Florida Peninsula and Florida Keys Friday night and Saturday.



For more information go to hurricanes.gov



Overall Summary

Potential Tropical Cyclone One:

- 91L was designated as Potential Tropical Cyclone #1 at 5pm Thursday while located near the northeastern tip of the Yucatan Peninsula.
- The system is moving toward the north near 5 mph and this motion is expected to continue tonight. A turn toward the northeast is expected on Friday, and a faster motion toward the northeast is expected Friday night and Saturday. On the forecast track, the system should move across the southeastern Gulf of Mexico through Friday night, and then move across the southern and central portions of the Florida Peninsula on Saturday.
- Maximum sustained winds are near 35 mph with higher gusts. The system is expected to become a tropical depression on Friday and a tropical storm late Friday or Friday night.
- A Tropical Storm Watch 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 Watches are also in effect for much of South Florida.

Florida Outlook:

- Scattered showers and storms ahead of PTC#1 will continue to affect South Florida through Friday morning.
- By Friday 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 Watches are in effect and wind gusts could reach 50-60mph, 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 all of South Florida, the Treasure Coast and portions of West Central Florida.
- Isolated waterspouts/tornadoes are also possible across South Florida Friday night and Saturday morning.
- Minor coastal flooding around high tide is possible along the Florida Keys and Southwest Florida.

The next briefing packet will be provided Friday morning. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE



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State Meteorological Support Unit

Florida Division of Emergency Management

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