

TROPICAL UPDATE



9:00 AM EDT

Thursday, June 17, 2021

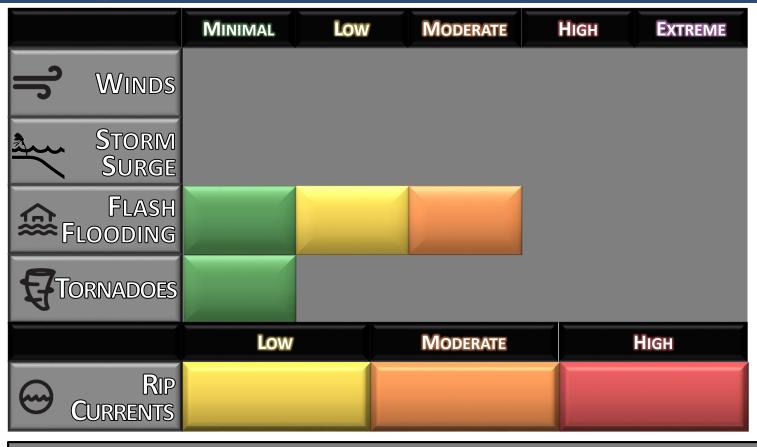
Bay of Campeche Low – Invest 92L (90%)

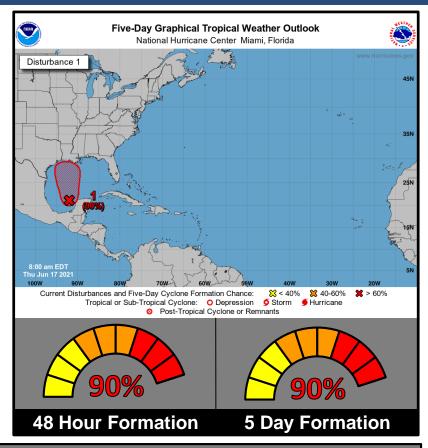
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an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



Invest 92L

8 AM ET Thursday: Florida Threats & Changes Since Last Packet





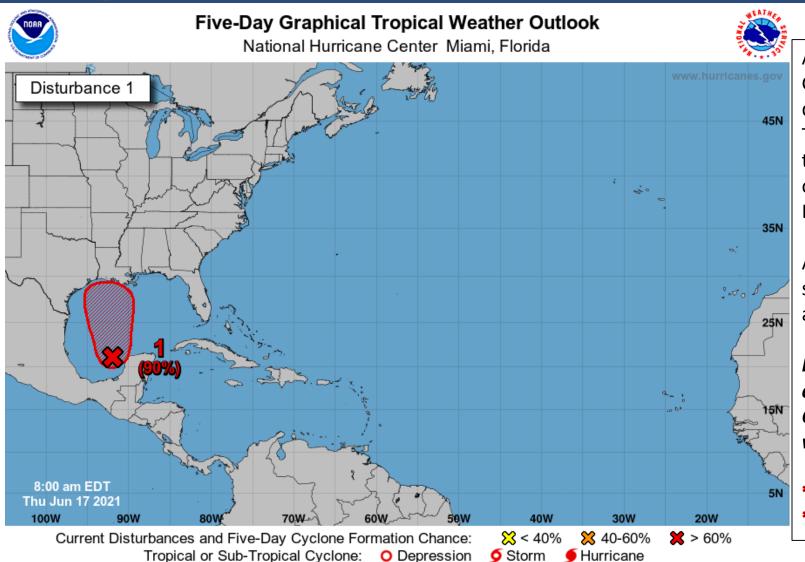
Overview/Recent Changes:

Invest 92L in the southwestern Gulf of Mexico is likely to bring heavy rainfall to the Panhandle beginning late Friday into this weekend. Additionally, there will be a low-end tornado threat with some of the bands from 92L. Dangerous rip currents and high surf are likely this weekend along Panhandle beaches, as well as a possible increased rip current risk for West Coast beaches late this weekend. Nuisance to minor coastal flooding is also possible in the Panhandle with tides of 1-2' above normal.



Tropical Weather Outlook

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



Post-Tropical Cyclone or Remnants

A broad area of low pressure over the southwestern Gulf of Mexico is producing widespread but disorganized cloudiness, showers, and thunderstorms. This system is expected to move northward, and a tropical or subtropical depression is likely to form over the west-central Gulf of Mexico tonight or early Friday.

An Air Force Reserve Unit reconnaissance aircraft is scheduled to investigate the disturbance this afternoon, if necessary.

Regardless of development, heavy rains could begin to impact portions of the northern Gulf Coast (including the Panhandle) through the weekend.

- *Formation chance through 48 hours...high...90%
- *Formation chance through 5 days...high...90%



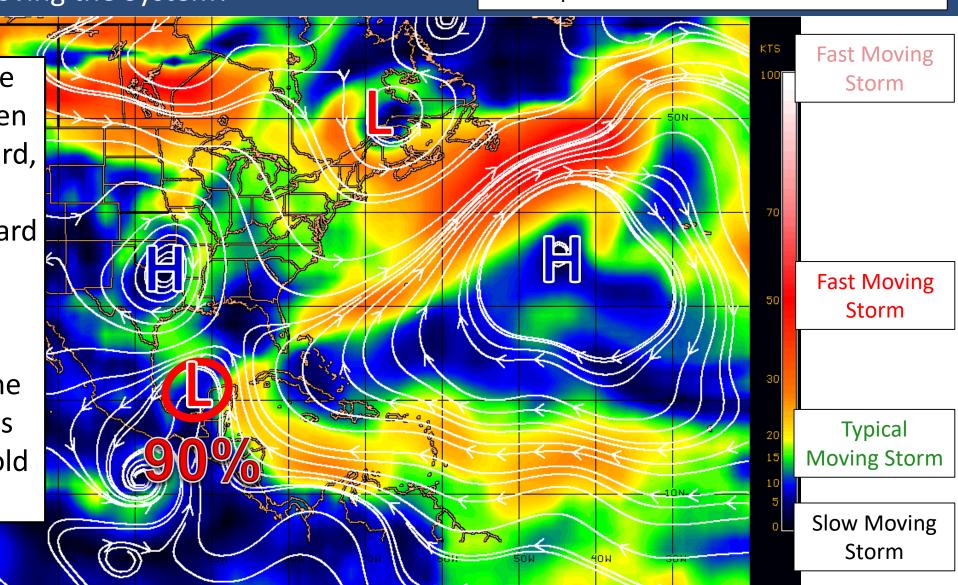
Steering Currents

What is Moving the System?

Color denotes the movement speed through the atmosphere and thin white lines denote direction. Tightly clustered white lines represent faster movement as well.

High pressure over the southern US will weaken today and slide westward, allowing 92L to start moving northward toward the Gulf Coast

92L will then turn northeastward over the southeast US later this weekend ahead of a cold front.



Color denotes the amount of wind shear and the lines denote how it have changed over the last 24 hours (dotted lines show decreasing shear and solid lines show increasing.

Is the environment favorable for the system?

Wind shear over the Bay of **HIGH Shear** Campeche remains low to (Unfavorable) moderate, but as 92L moves northward, shear will continue. This will make the system **HIGH Shear** lopsided, with most of the (Unfavorable) storms on the east side. **MODERATE** Shear (Neutral) **LOW Shear** (Favorable)

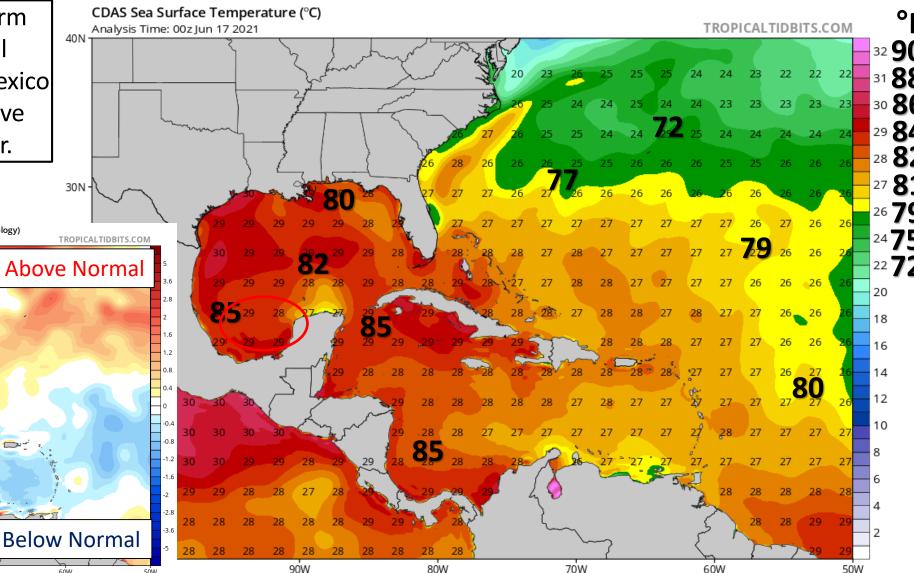
Increasing



Sea Surface Temperatures & Anomalies

Is the ocean favorable for the system?

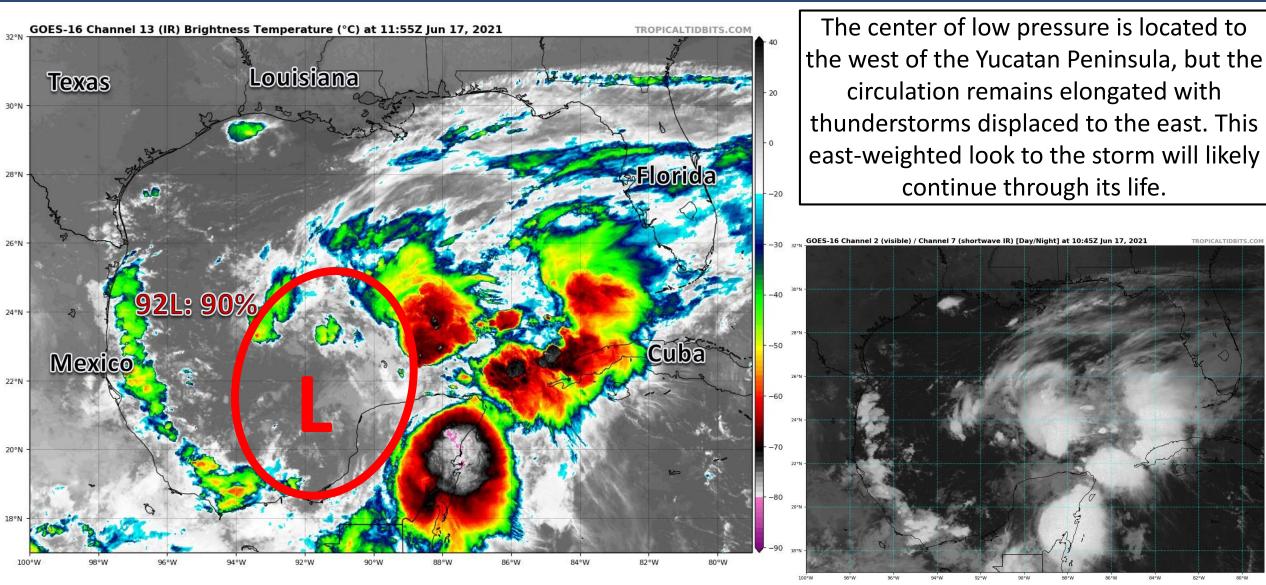
Water temperatures are warm enough to support tropical development in the Gulf of Mexico and are running slightly above normal for this time of year.





Satellite Imagery

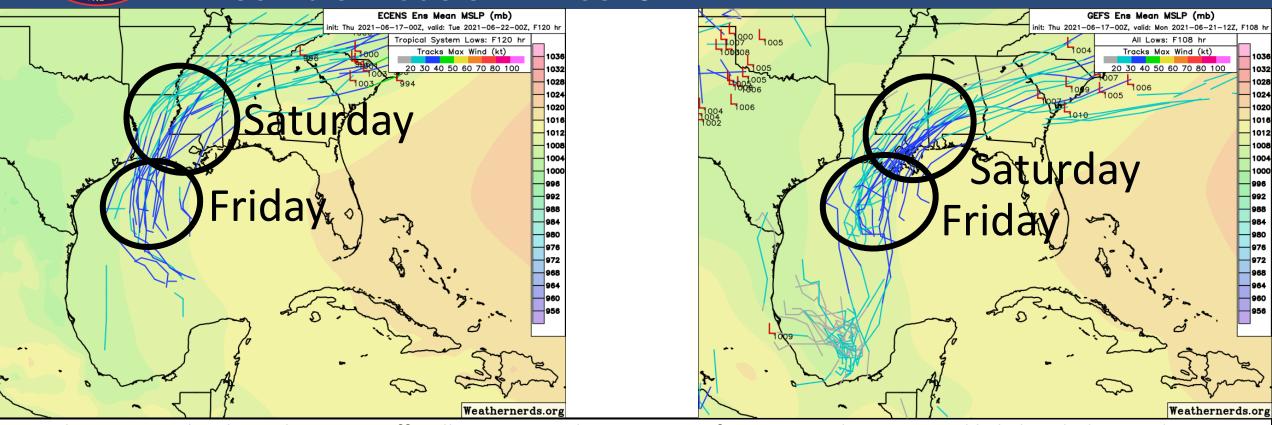
Gulf of Mexico – Invest 92L





Model Forecast Tracks Next 5 Days

Ensemble Models – Invest 92L



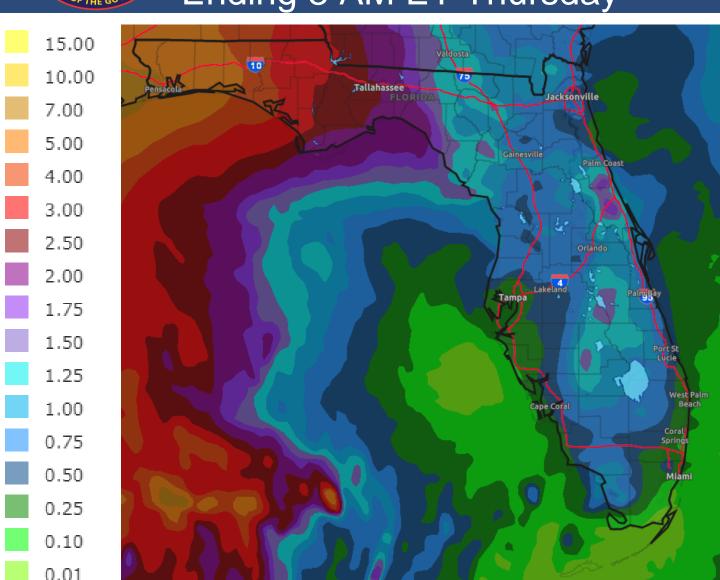
Depending on exactly where the center officially sets up and any center reformations, the system is likely headed toward Louisiana.
Additionally, most models keep this weak—a mid-grade tropical storm at best. However, it's important to not focus on the exact
center as this system approaches the coast.

Regardless of development, this system will likely be lopsided with most of the rainfall being (well) east of the center. Heavy rainfall is possible in the Panhandle even with "the center of the storm" tracking into western Louisiana.



Rainfall Totals Next 7 Days

Ending 8 AM ET Thursday



A widespread 4-8" of rain is currently forecast across the Panhandle over the next 7 days, possibly up to 10" in western areas. Localized higher amounts are possible. Rainfall totals of 2-4" are possible across the Big Bend.

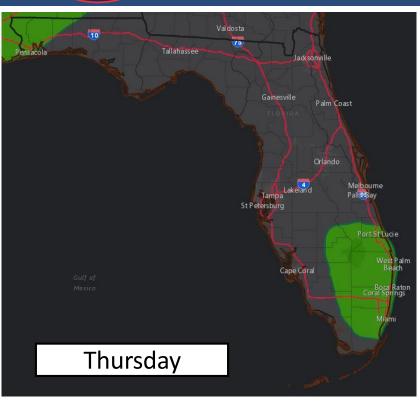
These rainfall totals are highly dependent on the track and organization of the system, both of which are still uncertain.

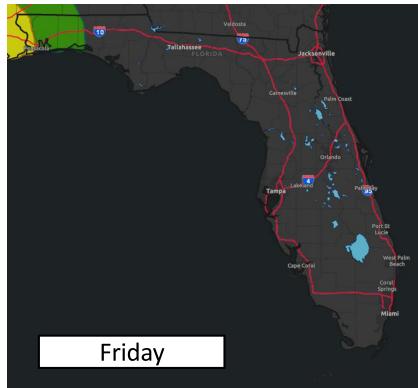
The rainfall across the Peninsula is associated with thunderstorms over the next few days and is not related to the tropical system.



Flash Flood Outlooks

From the Weather Prediction Center







Risk of rainfall exceeding flash flood guidance within 25 miles of a point to the right of a line

HIGH: > 50% SLGT: 10%-20%

MDT: 20%-50% MRGL: 5%-10%

Bands of heavy rain from 92L are likely to impact the Panhandle beginning late Friday into Saturday. Should a heavy rain band begin training over the Panhandle, flash flooding would then become likely. A Flash Flood Watch may be needed.



Flash Flood Risk Categories

Understanding the Weather Prediction Center Risk Scale

Understanding WPC Excessive Rainfall Risk Categories

No Area/Label

Flash floods are generally not expected.

www.wpc.ncep.noaa.gov @NWSWPC

Flash

flooding

near me?

Flash Flooding

NO Flash Flooding



MARGINAL (MRGL)

Isolated flash floods possible

Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.

SLIGHT (SLGT)

Scattered flash floods possible

Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.

MODERATE (MDT)

Numerous flash floods likely

Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.

HIGH (HIGH)

Widespread flash floods expected

Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.

Risk of rainfall exceeding flash flood guidance within 25 miles of a point to the right of a line

HIGH: > 50%

MDT: 20%-50%

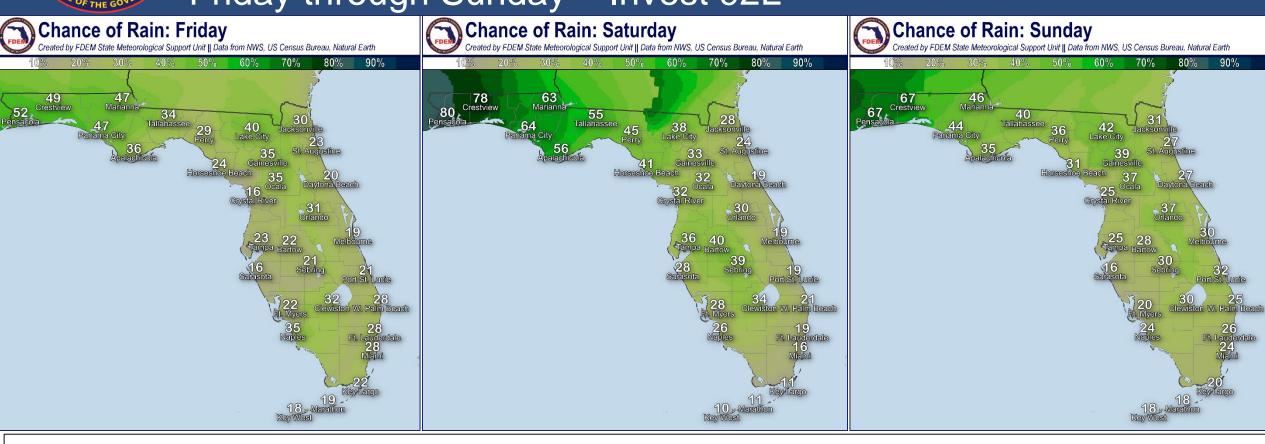
SLGT: 10%-20%

MRGL: 5%-10%



Forecast Rain Chances

Friday through Sunday – Invest 92L

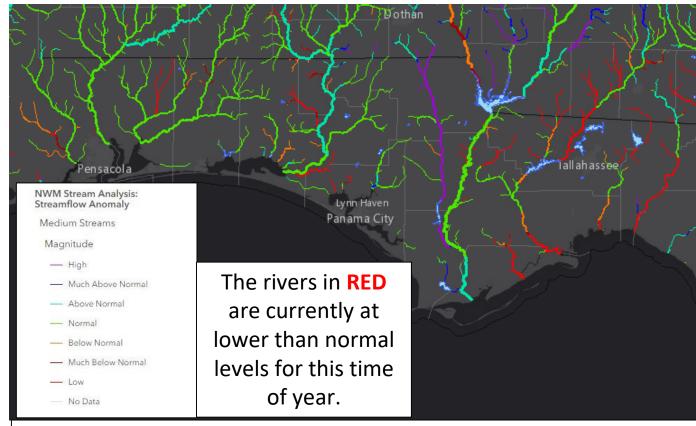


Rain chances will begin increasing Friday in the western Panhandle and continue increasing into this weekend across the Panhandle and Big Bend. Locally heavy rainfall will be the primary threat. A low-end tornado threat is also possible with any of the cells in the bands.



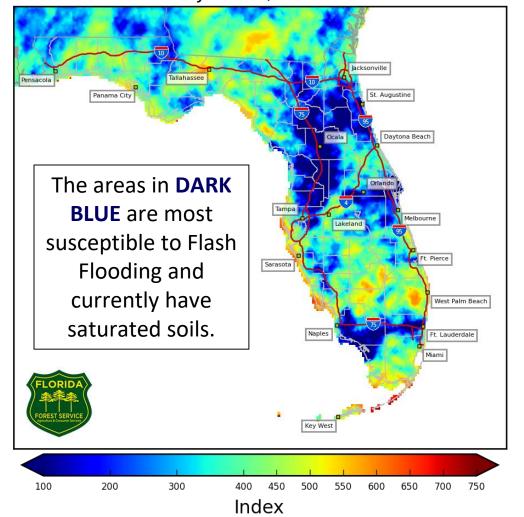
Streamflow Anomaly — Soil Moisture

KB Drought Index – Full Report from the Florida Forest Service



Streamflows along many Panhandle rivers are running near to below normal. This is due to recent dry weather across the Panhandle where KBDI values are largely between 350 and 550. The Choctawhatchee and Chipola Rivers are most susceptible as they are running above normal.

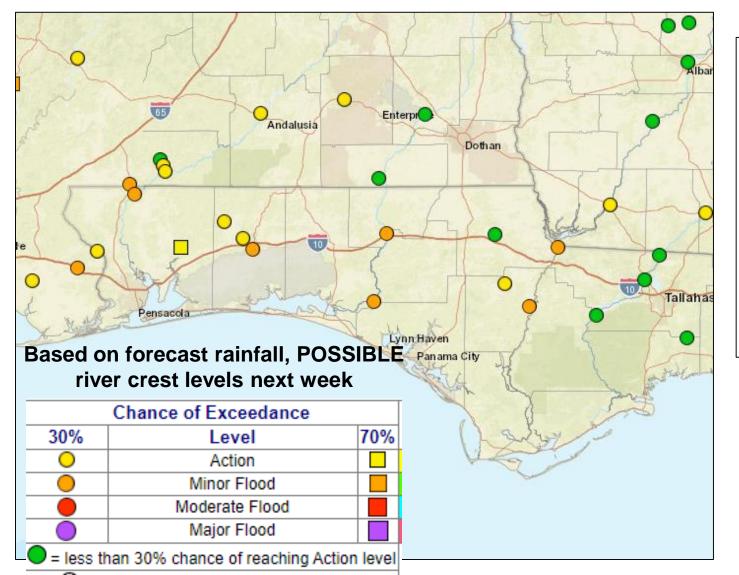
4 km Resolution KBDI Statewide June 16, 2021





Possible River Flooding

Chance of River Flooding Based on Range of Forecasted Rainfall



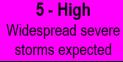
With the recent dry weather, rivers are running below normal. This will help mitigate any significant river flooding.

It will likely take over 5-7" of rain to result in minor river flooding in the Panhandle.



Severe Weather Outlook

From the Storm Prediction Center



4 - Moderate
Widespread severe
storms likely

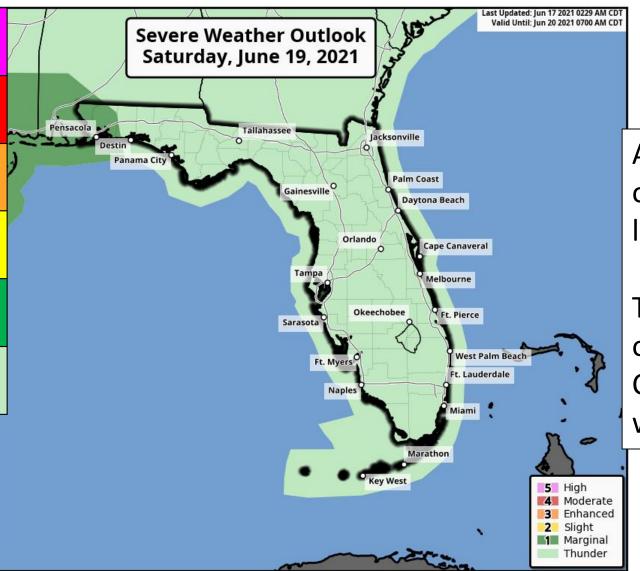
3 - EnhancedNumerous severe storms possible

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



As the outer bands of 92L move onshore on Saturday, there will be a low-end tornado threat.

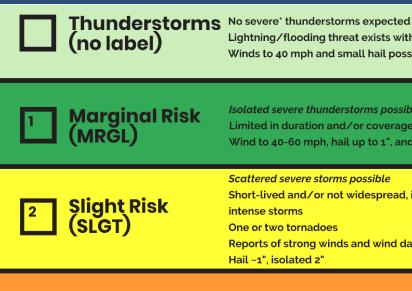
The Storm Prediction Center has outlined Escambia and Santa Rosa Counties in a Marginal Risk for severe weather (level 1 of 5).

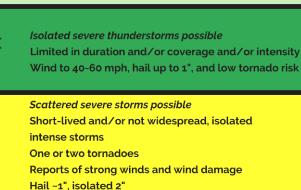


Severe Thunderstorm Risk Categories

Understanding the Storm Prediction Center Risk Scale

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
			100000		





Winds to 40 mph and small hail possible

Lightning/flooding threat exists with all thunderstorms





Numerous severe storms possible More persistent and/or widespread, a few intense A few tornadoes Several wind damage reports Damaging hail, 1"-2"



Moderate Risk





Widespread severe storms expected Long-lived, very widespread and particularly intense Tornado outbreak Derecho





www.spc.noaa.gov

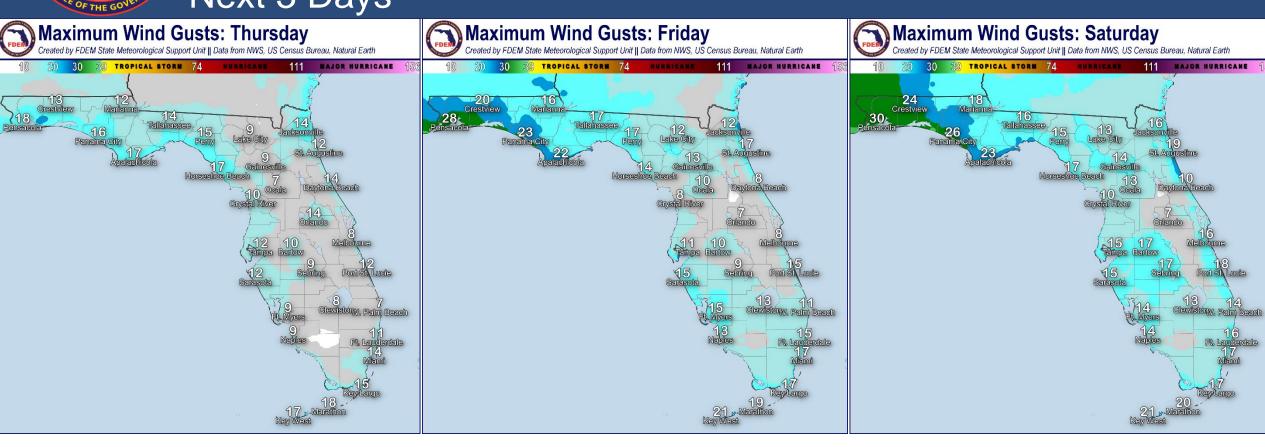
NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply

lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.



Forecast Maximum Wind Gusts

Next 3 Days

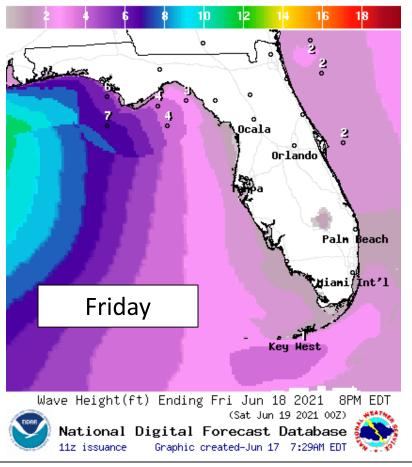


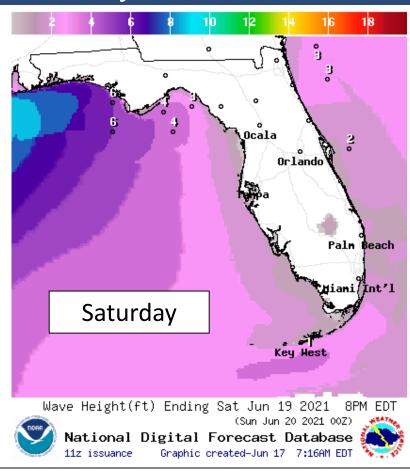
Gusty winds are possible, but gusts will generally top out around 30 mph. Higher wind gusts are possible in the stronger storms in the outer rain bands.

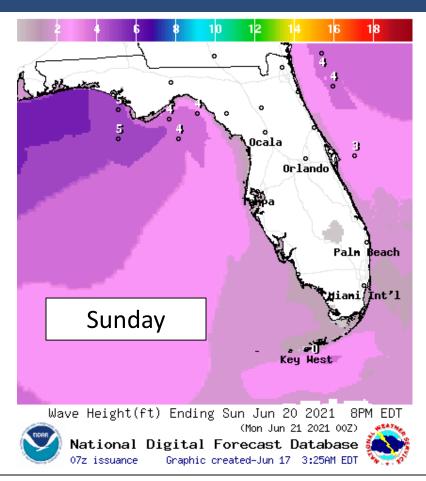
FDEM OFFICE OF THE GOVERNOR

Forecast Wave Heights

Friday through Sunday







Surf will begin to build along the Panhandle beaches late Thursday into Friday and remain elevated through the weekend. A High Surf Advisory is in effect from Escambia to Okaloosa Counties. Dangerous rip currents are likely along the Panhandle beaches. Some swells may affect the West Coast beaches late in the weekend.



Storm Surge/Coastal Flooding

This Weekend

Onshore winds associated with Cristobal will result in some nuisance to minor coastal flooding along the Gulf Coast, mainly in the normally flood prone areas.

Tides could run as much as 1-2' above normal in the Panhandle, especially if the storm moves closer to southeast Louisiana.





Overall Summary

Florida Outlook:

Bay of Campeche Low - Invest 92L

- An area of disorganized, disturbed weather over the southwestern Gulf of Mexico will slowly begin moving northward today over the western Gulf of Mexico toward the northwestern Gulf Coast.
- This system may become better organized, and a tropical or subtropical depression will likely form tonight or Friday in the western Gulf of Mexico as the system moves northward. The NHC could initiate advisories on a Potential Tropical Cyclone later this morning.
- This weekend, the system will move inland and track northeast across the southeastern United States.
- The National Hurricane Center gives this system a 90% (high) chance of formation. Hurricane Hunters will investigate the system this afternoon, if necessary.
- With this system likely being lopsided, most of the rainfall will be on the eastern side, which could bring heavy rainfall to the Panhandle even with a landfall in western Louisiana.
- Current forecasts call for 4-8" of rain in the Panhandle and 2-4" in the Big Bend. Locally higher amounts are possible.
- Flash flooding will become likely if bands of heavy rainfall begin training over the same locations.
- Significant river flooding is not expected as rivers are low, but some minor river flooding cannot be ruled out where heavier rainfall occurs.
- A low-end tornado threat is possible in the western Panhandle on Saturday.
- Dangerous rip currents and high surf are expected along Gulf Coast beaches by the end of the week and through the weekend.
- Tides may run as much as 1-2 feet above normal in the Panhandle.
- The next name on the list is Claudette (klaw-DET).

The next briefing packet will be issued this afternoon. 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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