



# Tropical Update



11:20 AM EDT

Thursday, June 20, 2024

**Tropical Depression Alberto; Invest 92L; Medium (50%) Chance of Development Over the SW Gulf During the Next 7 Days**

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).



# Atlantic Basin Satellite Image

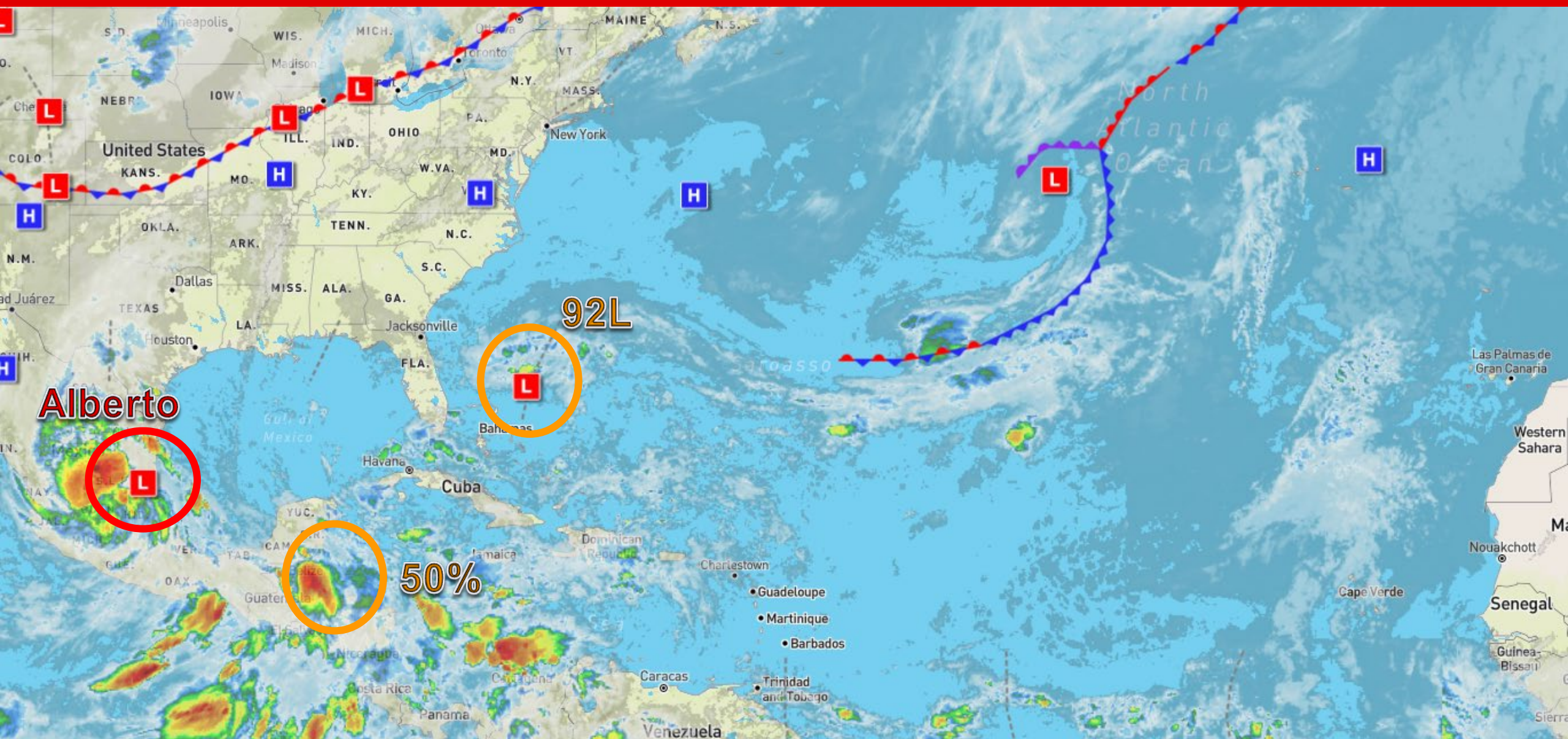
Chance of development:

None

Low

Medium

High





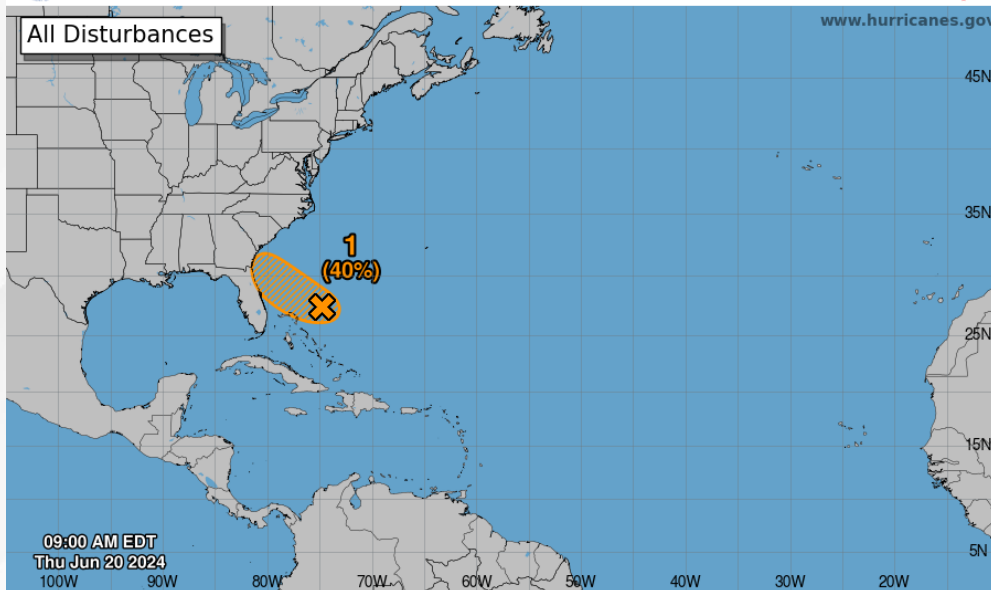
# Tropical Weather Outlook

Disturbance 1 – Invest 92L ([LINK](#))

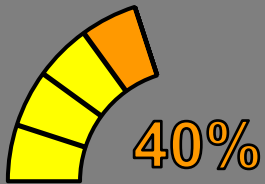


## Seven-Day Graphical Tropical Weather Outlook

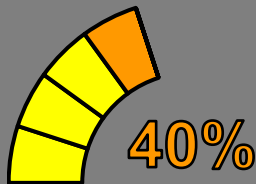
National Hurricane Center Miami, Florida



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



48 Hour Formation



7 Day Formation

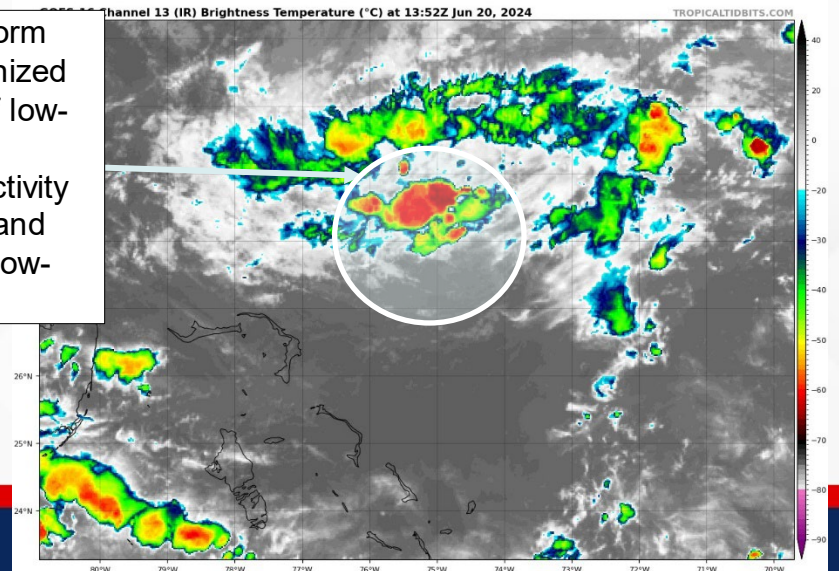
A small area of low pressure located about 150 miles east of the northernmost Bahamas continues to produce disorganized shower and thunderstorm activity. While environmental conditions are only marginally conducive due to nearby dry air, further development of this system could lead to the development of a tropical depression while the low moves west-northwestward at 10-15 mph and approaches the northeastern coast of Florida or the Georgia coast early on Friday. An Air Force Reserve reconnaissance aircraft is scheduled to investigate this system this afternoon, if necessary.

*Regardless of development, an increase in rain chances along the Florida East Coast, gusty coastal winds, localized flooding along urban area and beachfront locations, and dangerous beach/marine conditions will be possible.*

\* Formation chance through 48 hours...**medium...40%**

\* Formation chance through 7 days...**medium...40%**

Shower and thunderstorm activity remains disorganized around the small area of low-pressure over the southwestern Atlantic. Activity remains focused near and north of the estimated low-pressure center.





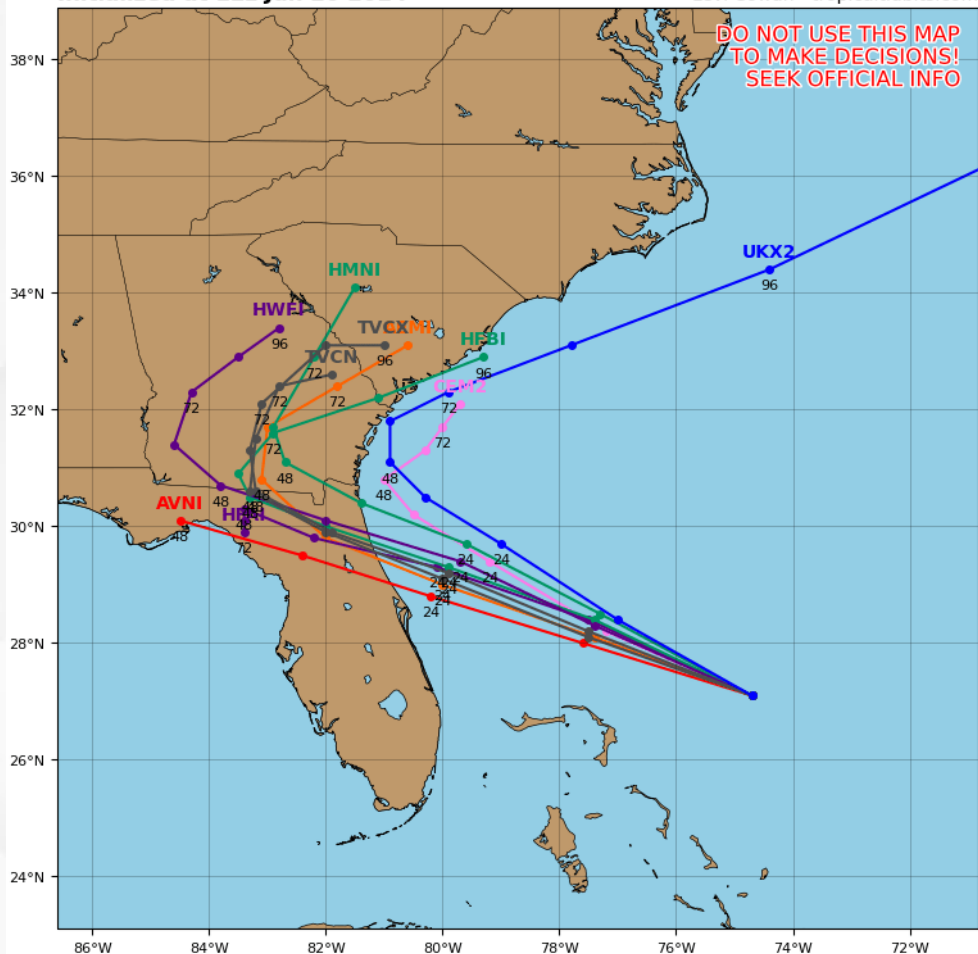
# Model Forecasts – Next 5 Days

## Invest 92L

### Invest 92L Model Track Guidance

Initialized at 12z Jun 20 2024

Levi Cowan - tropicaltidbits.com



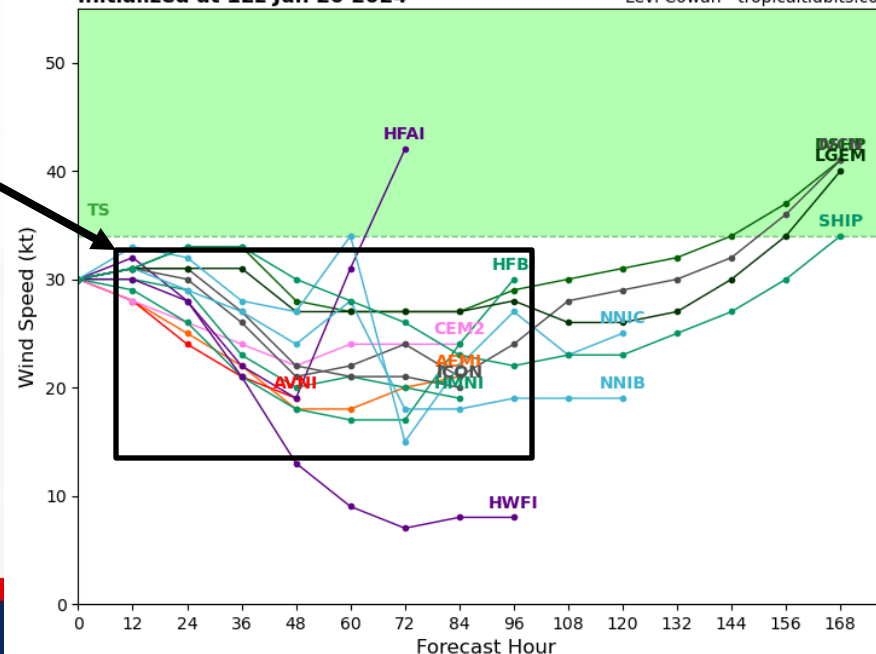
Computer models are in good agreement that a faster west-northwestward motion is expected to continue over the next day or so as Invest 92L approaches the Southeastern U.S. Coast, reaching the Northeast Florida Coast or Georgia Coast early on Friday.

While environmental conditions are only marginally conducive for further development due to nearby dry air, some slight strengthening will be possible, as agreed by the computer models; however, the proximity to land will limit the system as tropical depression upon reaching the Southeast U.S. Coast.

### Invest 92L Model Intensity Guidance

Initialized at 12z Jun 20 2024

Levi Cowan - tropicaltidbits.com



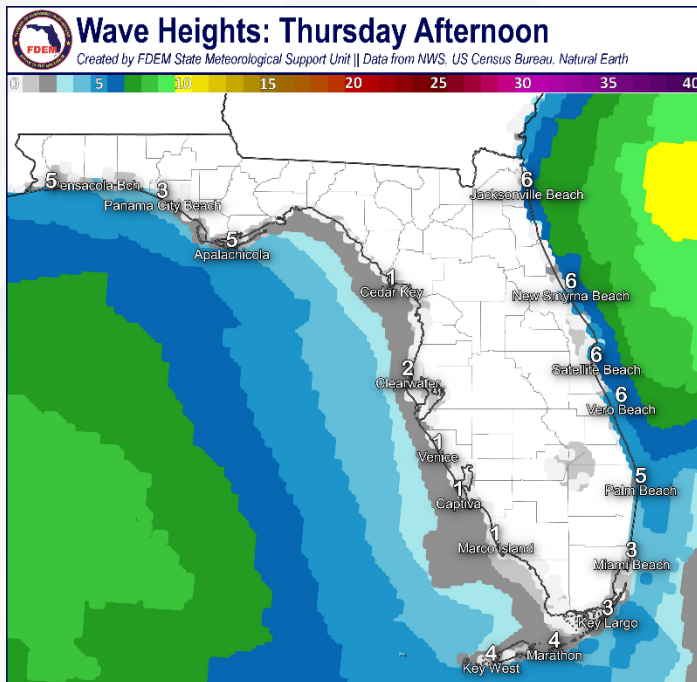
General  
computer  
model  
consensus



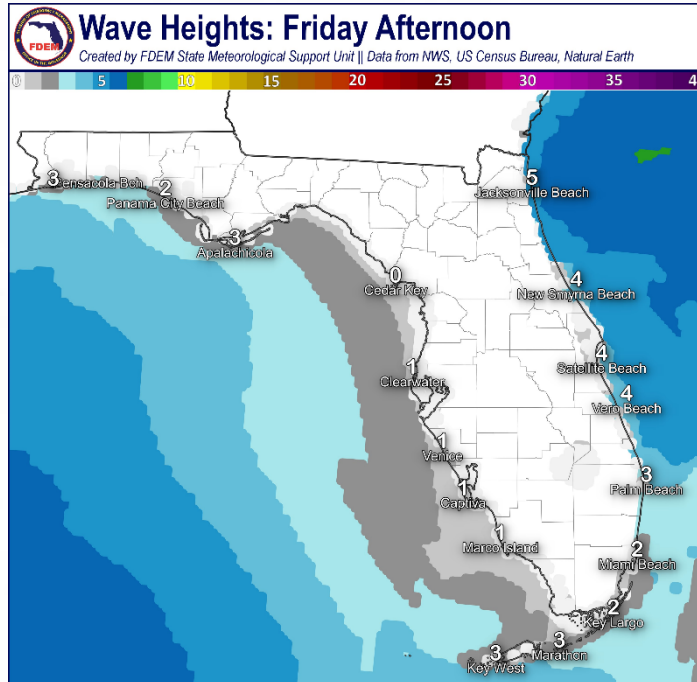
# Forecast Wave Heights

## From the National Weather Service (NWS)

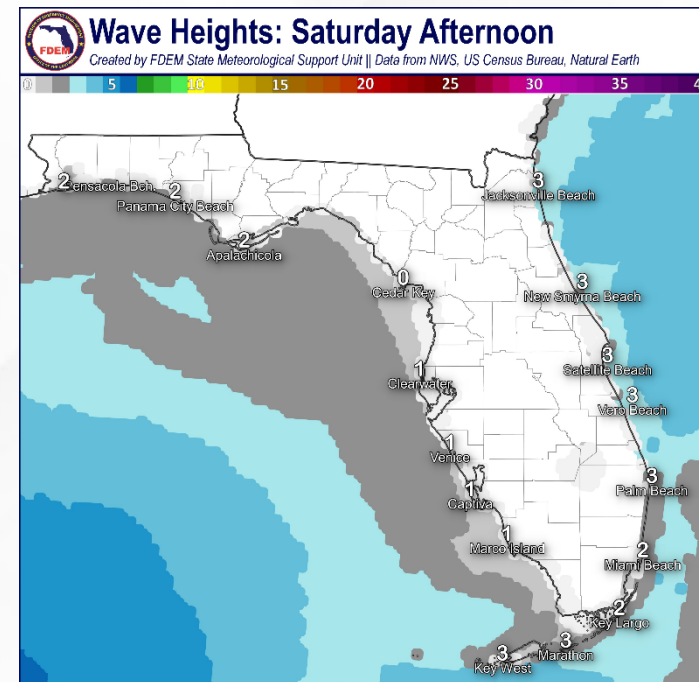
### This Afternoon



### Friday Afternoon



### Saturday Afternoon



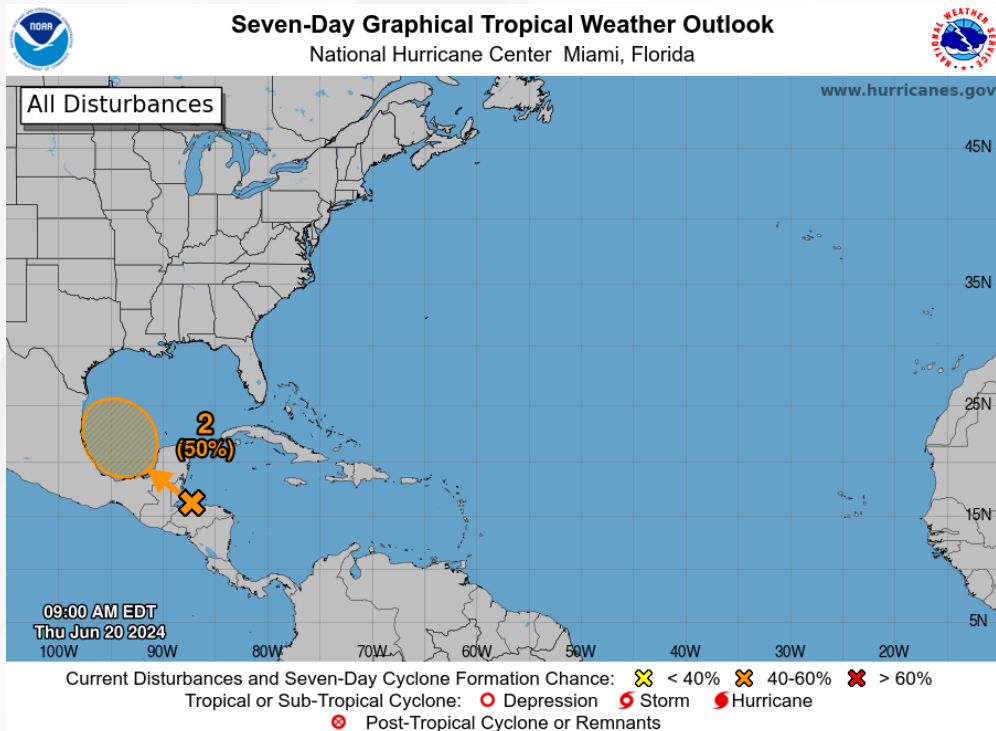
Breezy onshore winds along the Florida East Coast will gradually increase wave heights as Invest 92L approaches the Northeast Florida Peninsula today and late tonight, reaching the Northeastern Coast of Florida or the Georgia Coast early Friday. Wave heights of 5-8' can be expected for Florida East Coast beaches today. Large ocean swells and breezy onshore winds will also create a **high risk for rip currents** along the entire Florida East Coast today and later this week. **Minor tidal flooding and beach erosion** cannot be ruled out along portions of the Northeast and Space Coasts near and during time of high tide with the upcoming full moon and elevated surf conditions. **High Surf Advisories** will remain in effect through Friday morning/afternoon for the Central-East Coast and Northeast Coast.

Elevated surf and a **high risk for rip currents** can be expected along all Florida Panhandle beaches throughout the week. Wave heights of 3-6' can be expected, with breaking waves in the surf zone upwards of 7' further offshore. Instances of **minor coastal flooding** and **coastal erosion** may be possible near or at times of high tide. A **High Surf Advisory** will remain in effect through this evening for the far Western Panhandle counties (Escambia, Santa Rosa, and Okaloosa).

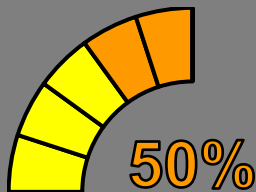


# Tropical Weather Outlook

Disturbance 2 – Southwestern Gulf of Mexico ([LINK](#))



48 Hour Formation



7 Day Formation

A broad area of low pressure is forecast to form over Southeastern Mexico and Northern Central America on Friday. Environmental conditions appear conducive for gradual development after this system moves over the Bay of Campeche on Saturday, and a tropical depression could form over the southwestern Gulf of Mexico this weekend while it moves slowly west-northwestward or northwestward.

*This system poses no direct threat to Florida at this time.*

- \* Formation chance through 48 hours...**low...20%.**
- \* Formation chance through 7 days...**medium...50%.**

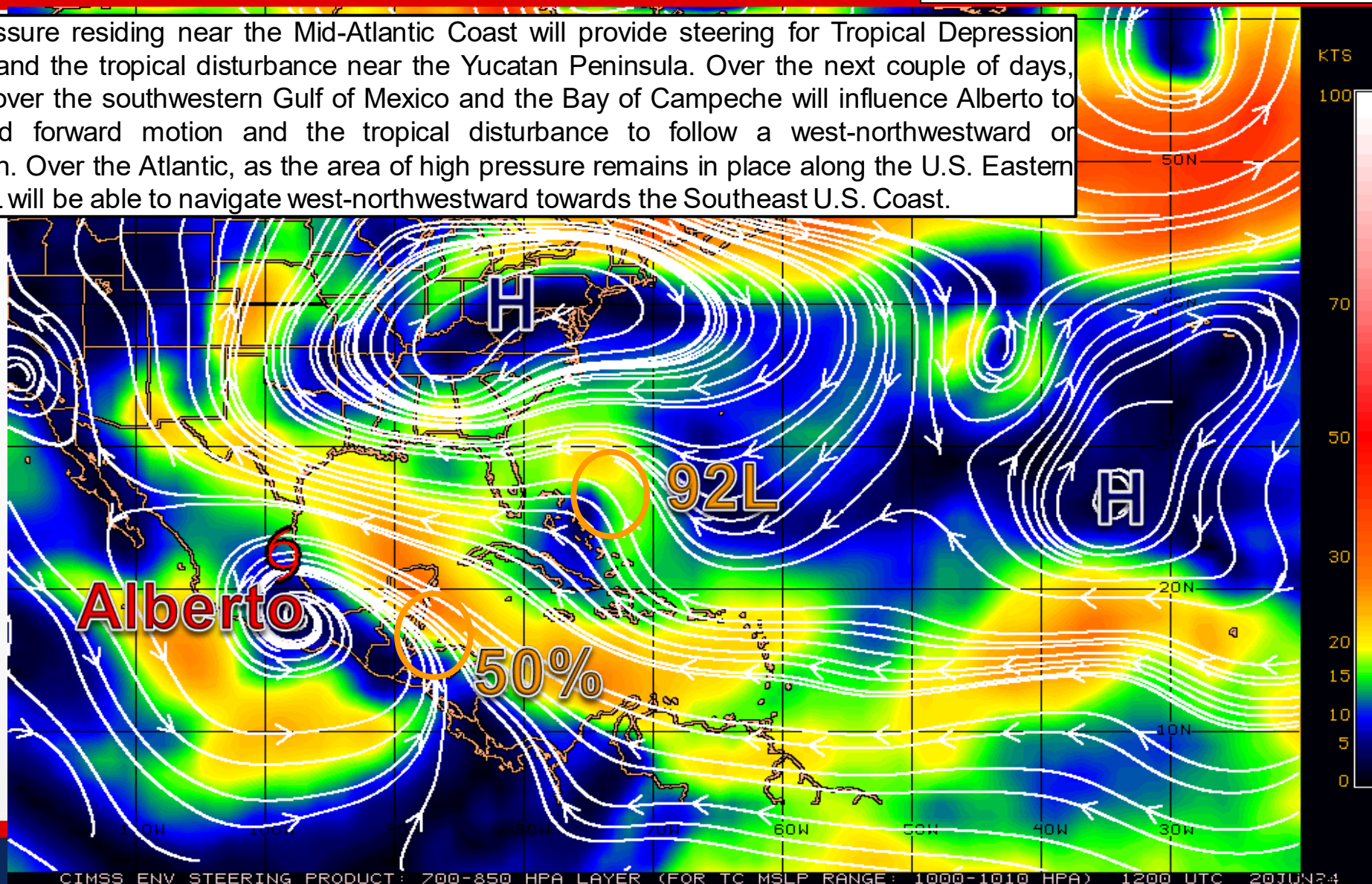


# Steering Currents

## 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.

An area of high pressure residing near the Mid-Atlantic Coast will provide steering for Tropical Depression Alberto, Invest 92L, and the tropical disturbance near the Yucatan Peninsula. Over the next couple of days, strong steering flow over the southwestern Gulf of Mexico and the Bay of Campeche will influence Alberto to maintain a westward forward motion and the tropical disturbance to follow a west-northwestward or northwestward motion. Over the Atlantic, as the area of high pressure remains in place along the U.S. Eastern Seaboard, Invest 92L will be able to navigate west-northwestward towards the Southeast U.S. Coast.



Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm

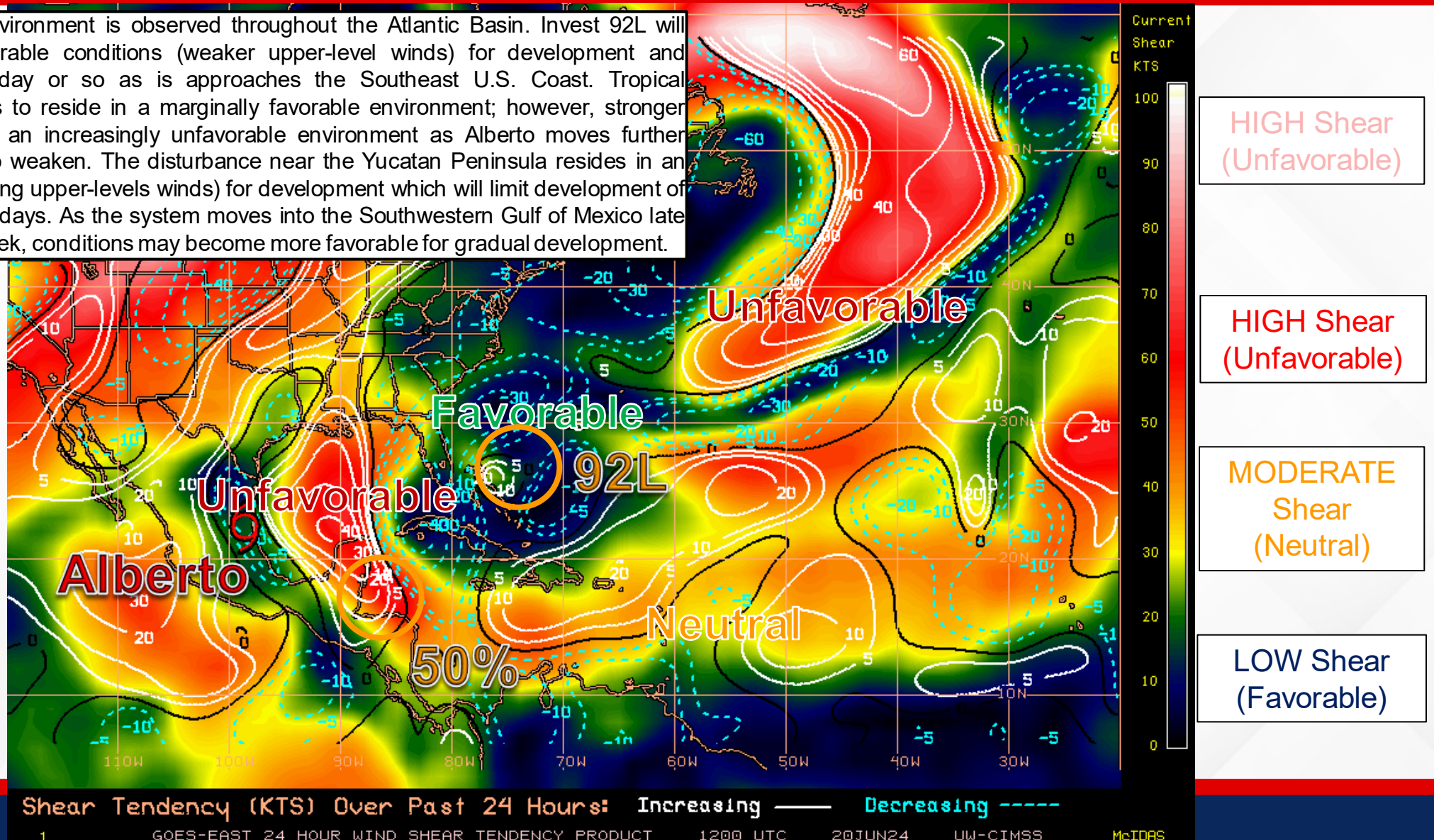


# Wind Shear

## Is the environment favorable for the system?

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).

A mixed upper-level wind environment is observed throughout the Atlantic Basin. Invest 92L will continue to experience favorable conditions (weaker upper-level winds) for development and organization over the next day or so as it approaches the Southeast U.S. Coast. Tropical Depression Alberto continues to reside in a marginally favorable environment; however, stronger upper-level winds will create an increasingly unfavorable environment as Alberto moves further inland, causing the system to weaken. The disturbance near the Yucatan Peninsula resides in an unfavorable environment (strong upper-level winds) for development which will limit development of the system over the next few days. As the system moves into the Southwestern Gulf of Mexico late this weekend or early next week, conditions may become more favorable for gradual development.

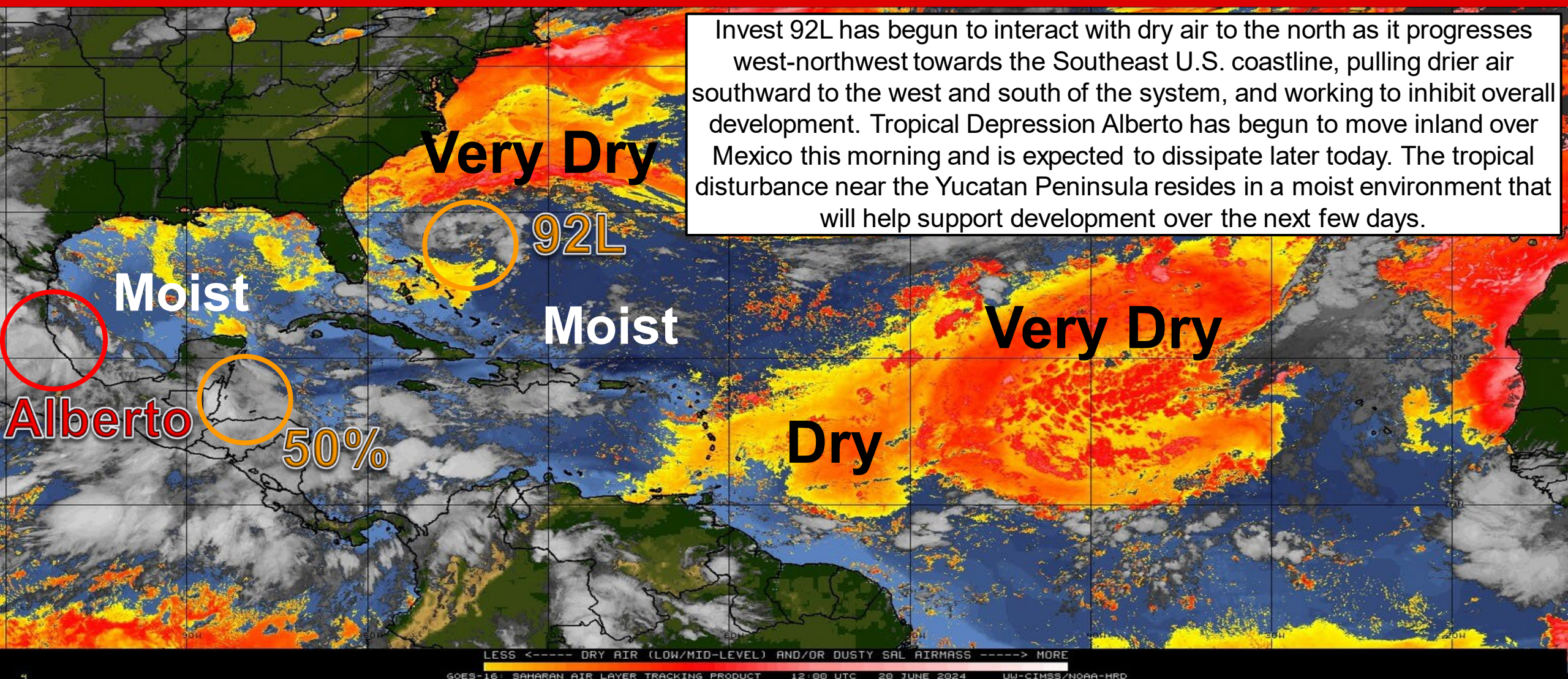




# Dry Air & Saharan Dust

Is the environment favorable for the system?

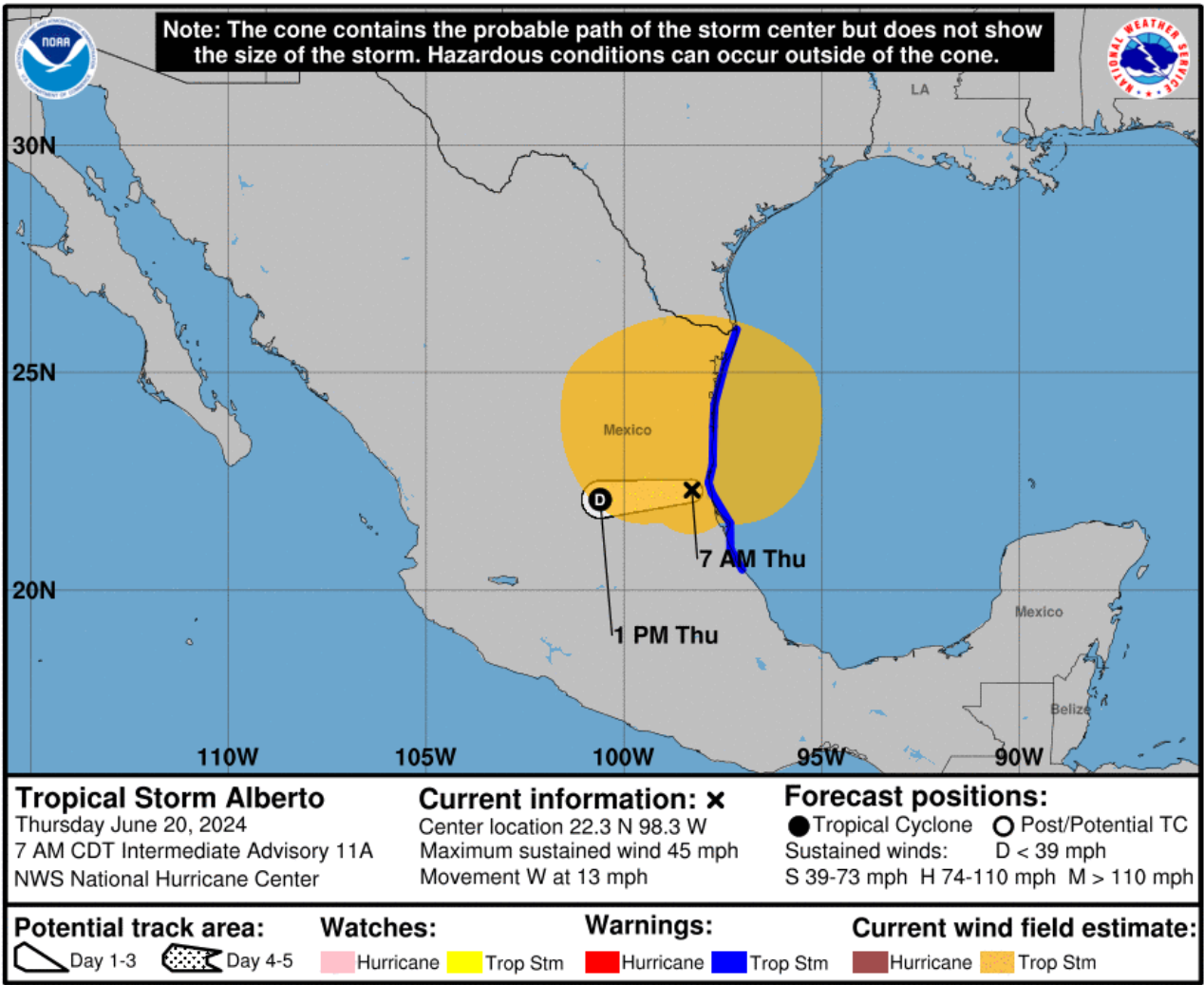
Color denotes concentration of Saharan Dust or dry, stable air.



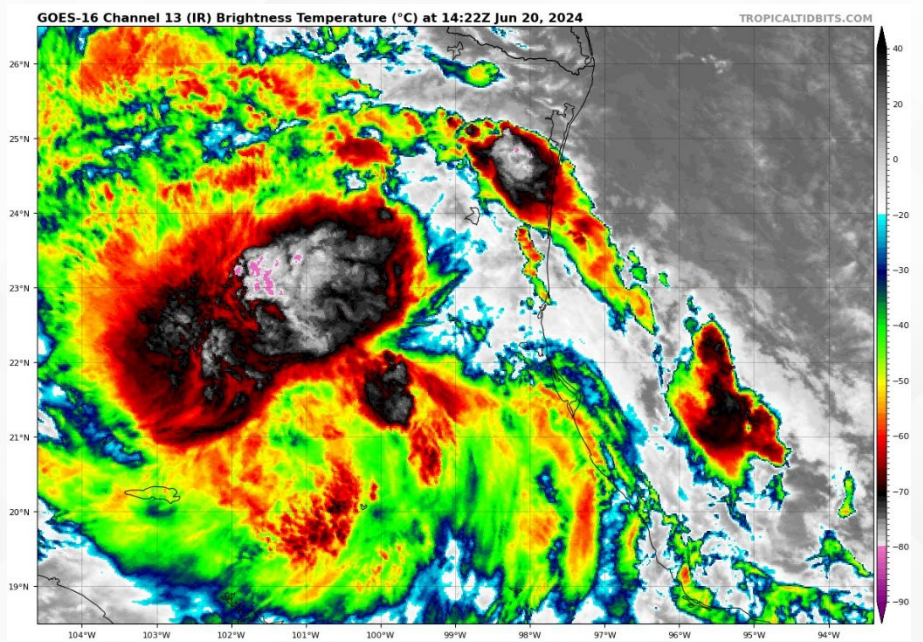


# Tropical Depression Alberto

From the National Hurricane Center (NHC)



- **Location:** 280 miles south-southwest of Brownsville, Texas
  - **Maximum Sustained Winds:** 35 mph
  - **Current Movement:** W at 18 mph
  - **FL Watches & Warnings:** None
- This westward motion is expected to continue through today as Alberto moves farther inland over Mexico. Alberto is expected to continue weakening as it moves inland, and the system is likely to dissipate over Mexico later today. *This system poses no threat to Florida.*





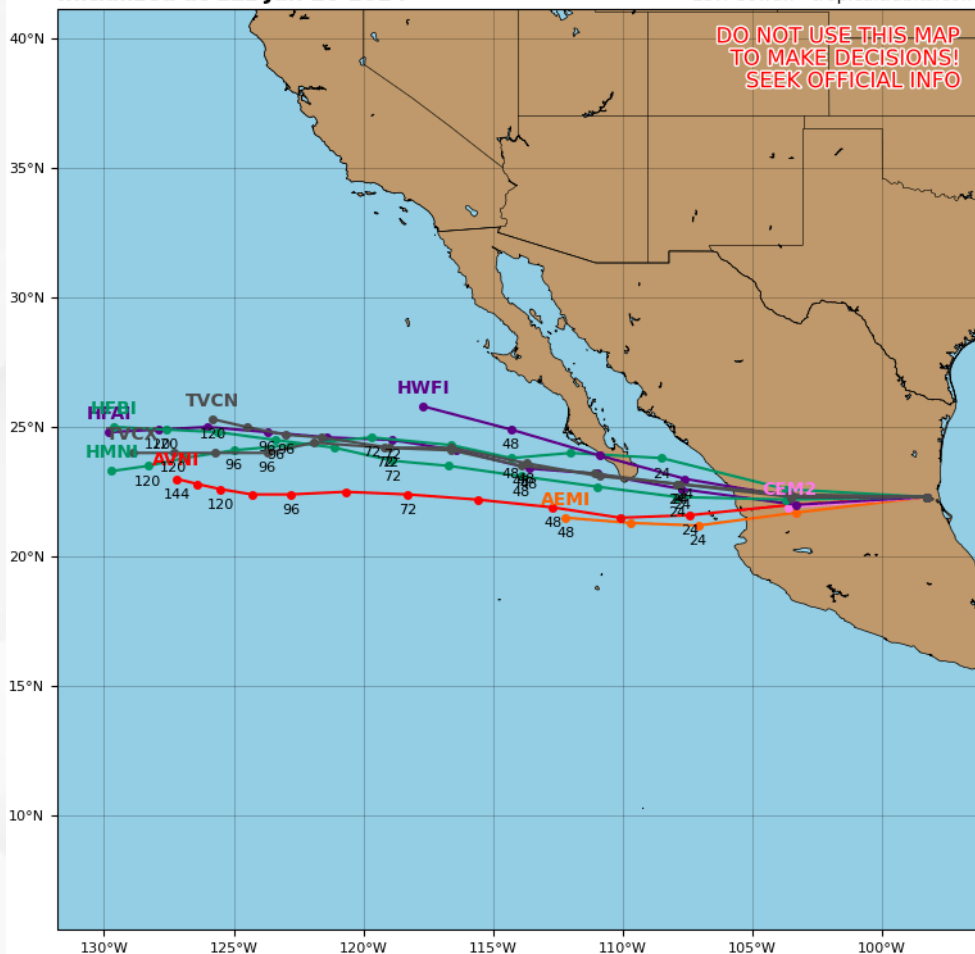
# Model Forecasts – Next 5 Days

## Tropical Depression Alberto

### Tropical Storm ALBERTO Model Track Guidance

Initialized at 12z Jun 20 2024

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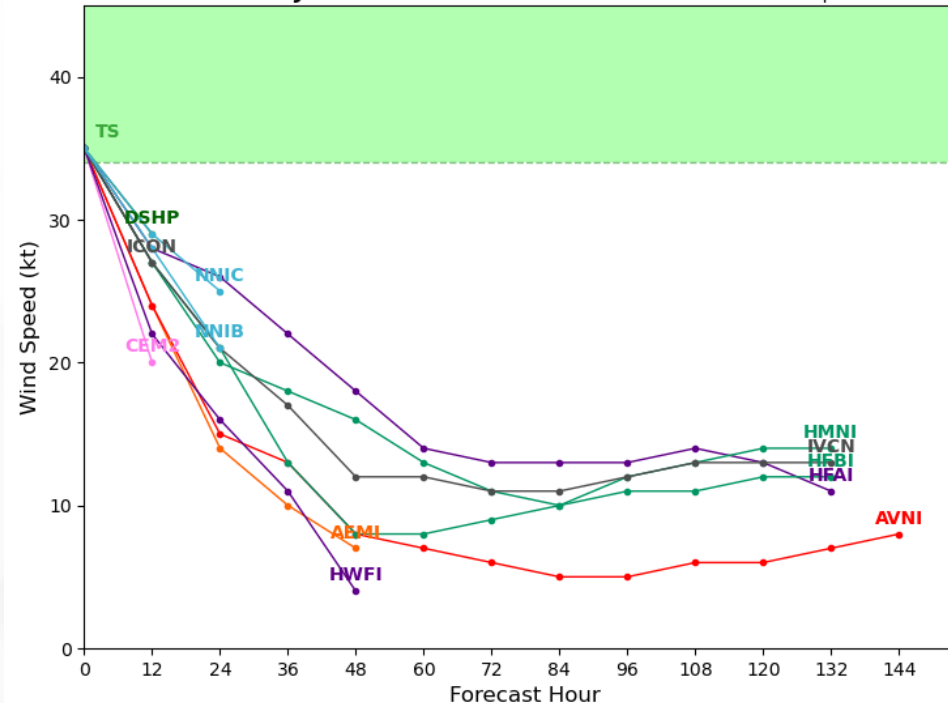
Computer models are in good agreement that a westward motion is expected to continue today as Tropical Depression Alberto moves further inland over Mexico.

Increasingly unfavorable conditions over land will cause Alberto to continue to weaken, as agreed by the computer models, dissipating over Mexico later today.

### Tropical Storm ALBERTO Model Intensity Guidance

Initialized at 12z Jun 20 2024

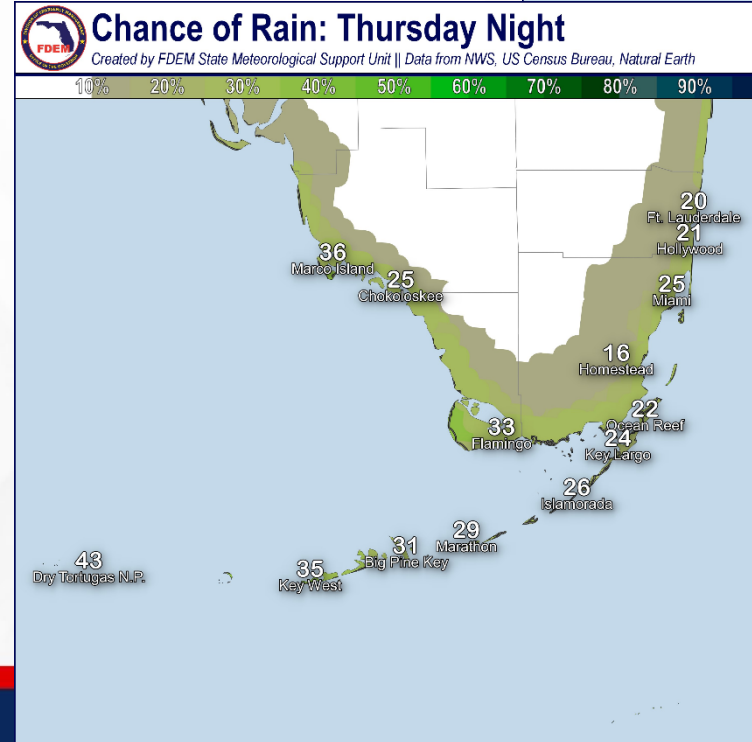
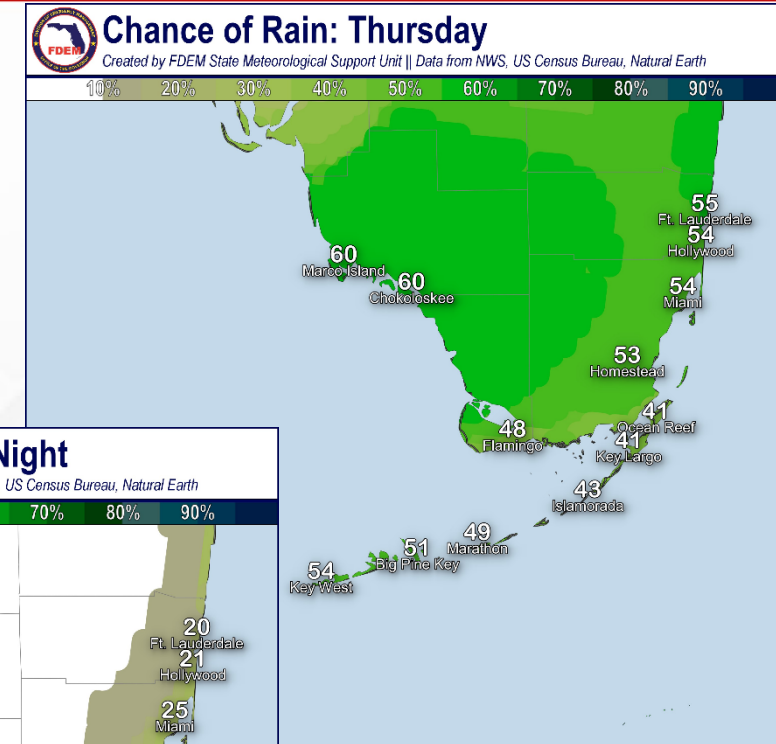
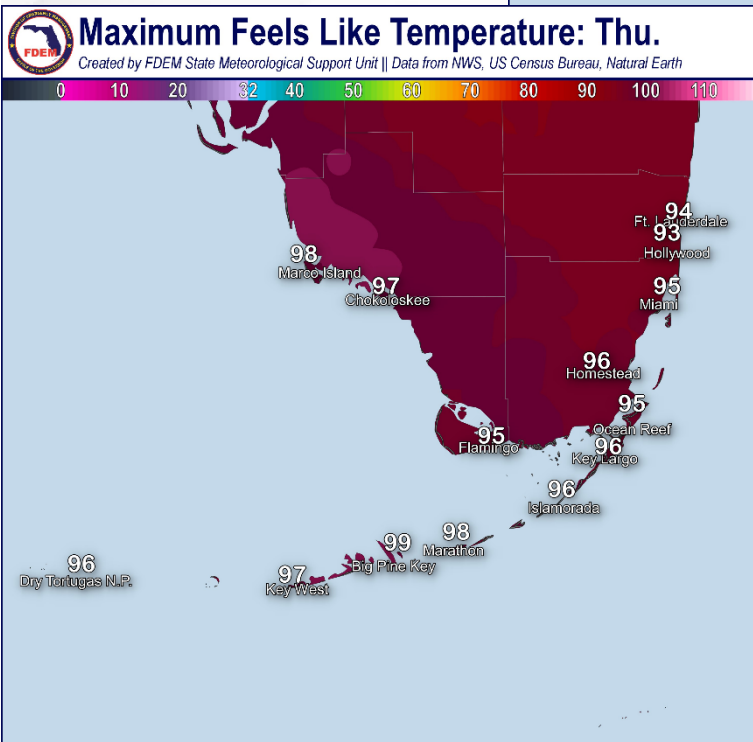
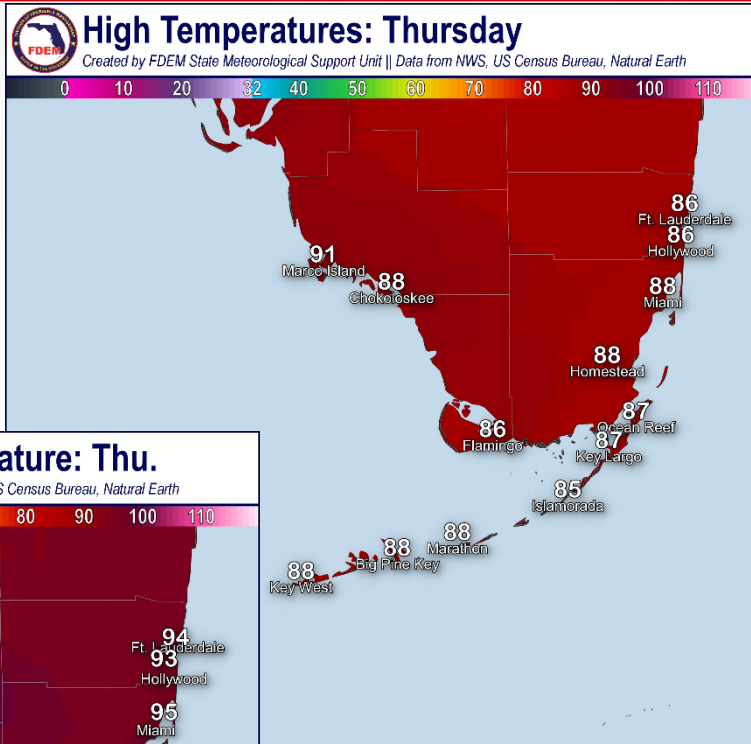
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# Recovery Weather – South Florida

## Thursday





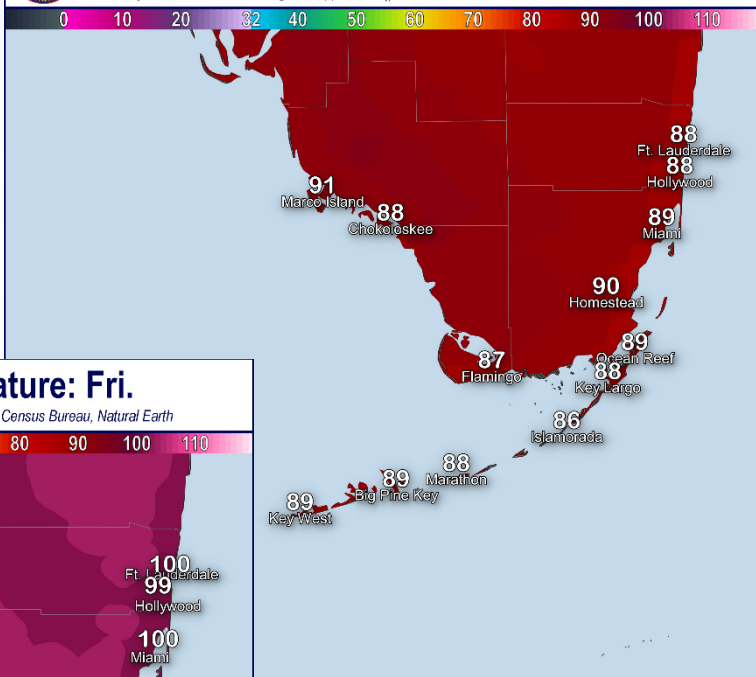
# Recovery Weather – South Florida

## Friday



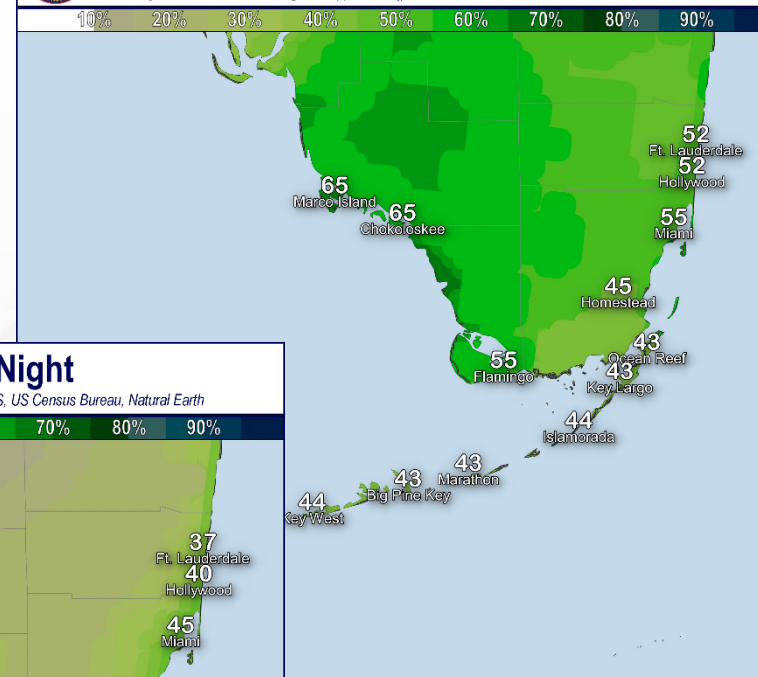
### High Temperatures: Friday

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



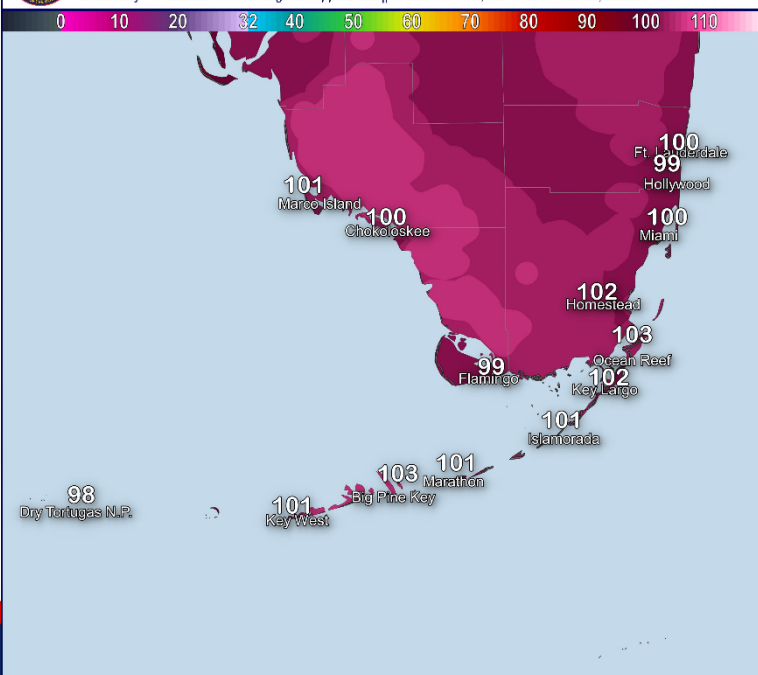
### Chance of Rain: Friday

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



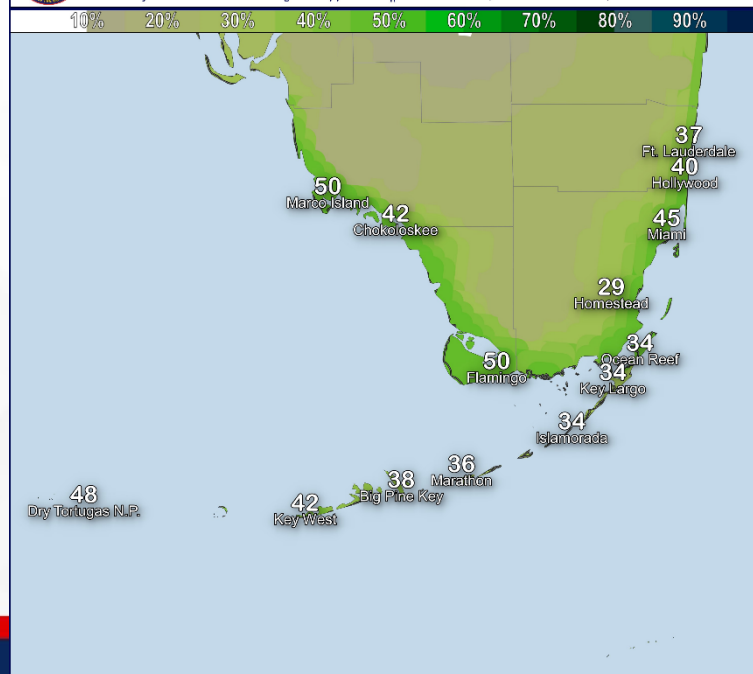
### Maximum Feels Like Temperature: Fri.

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



### Chance of Rain: Thursday Night

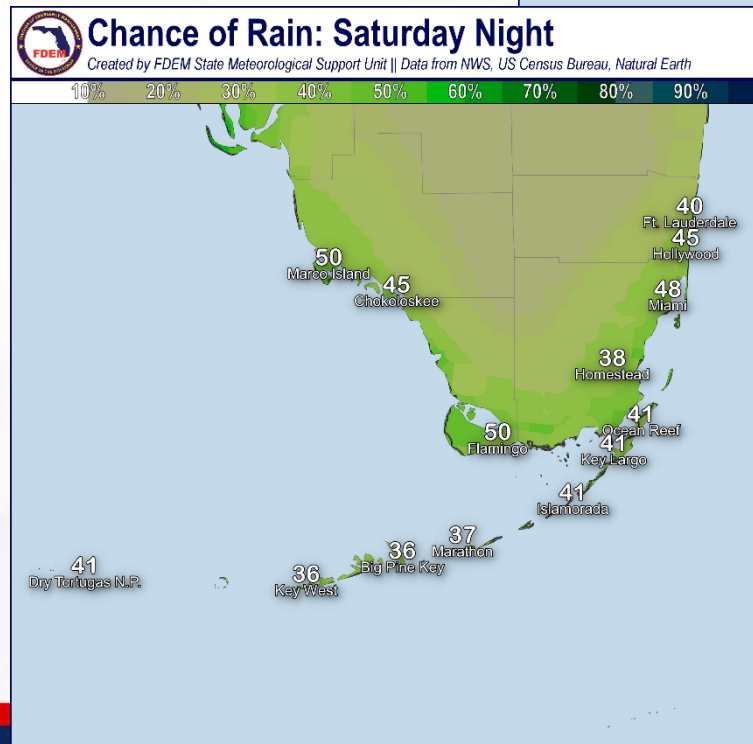
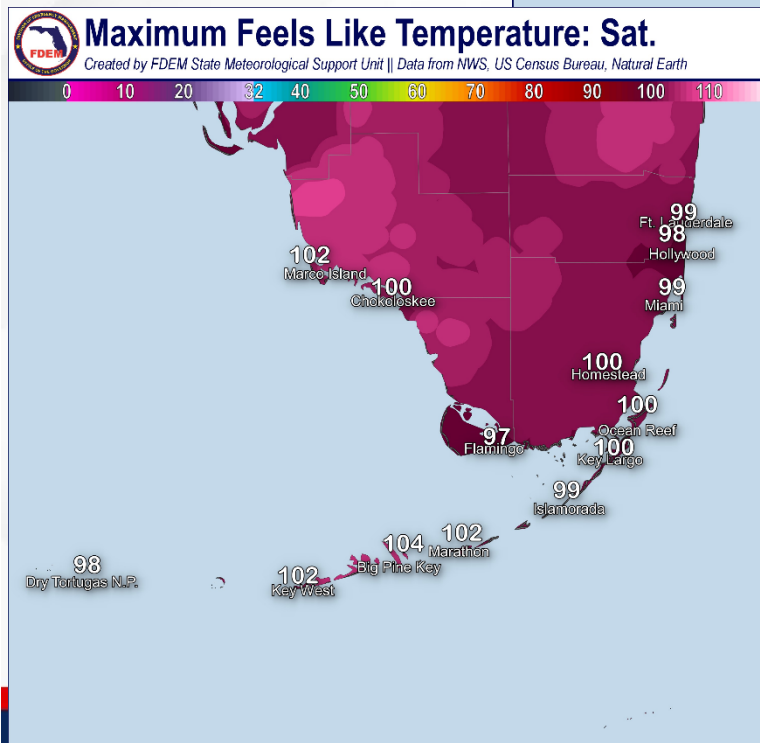
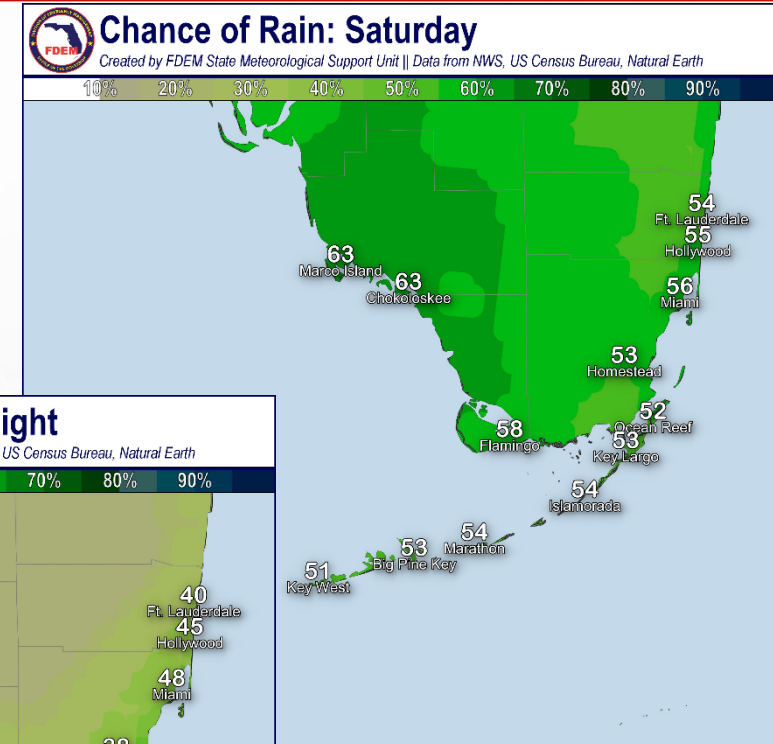
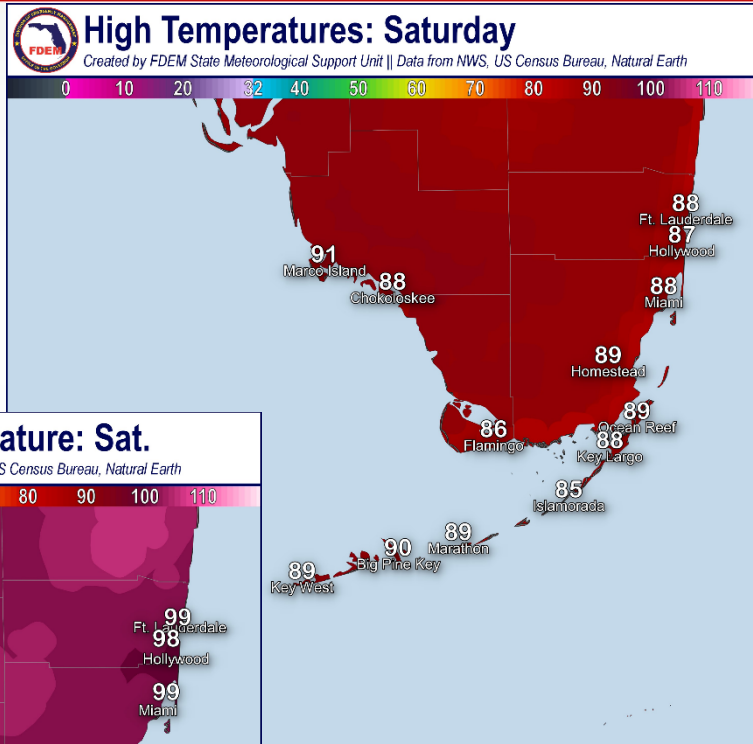
Created by FDEM State Meteorological Support Unit || Data from NWS, US Census Bureau, Natural Earth





# Recovery Weather – South Florida

## Saturday





# Summary

## Tropical Depression Alberto:

- With the 10:00 AM CDT Advisory, Tropical Depression Alberto is located about 280 miles south-southwest of Brownsville, Texas.
- Alberto is moving westward at 18 mph, and his general motion is expected to continue through today as Alberto moves further inland over Mexico.
- Maximum sustained winds are near 35 mph with higher gusts. Alberto is expected to continue weakening as it moves inland, and the system is likely to dissipate over Mexico later today.
- *This system poses no threat to Florida.*

## Invest 92L:

- A small area of low pressure located about 150 miles east of the northernmost Bahamas continues to produce disorganized shower and thunderstorm activity.
- While environmental conditions are only marginally conducive due to nearby dry air, further development of this system could lead to the development of a tropical depression while the low moves west-northwestward at 10-15 mph and approaches the northeastern coast of Florida or the Georgia coast early on Friday.
- An Air Force Reserve reconnaissance aircraft is scheduled to investigate this system this afternoon, if necessary.
- Regardless of development, an increase in rain chances along the Florida East Coast, gusty coastal winds, localized flooding along urban area and beachfront locations, and dangerous beach/marine conditions will be possible.
- The National Hurricane Center (NHC) is outlooking a **medium (40%) chance of development** over the next 48 hours, and a **medium (40%) chance of development** over the next 7 days.

## Southwestern Gulf of Mexico:

- A broad area of low pressure is forecast to form over Southeastern Mexico and Northern Central America on Friday.
- Environmental conditions appear conducive for gradual development after this system moves over the Bay of Campeche on Saturday, and a tropical depression could form over the southwestern Gulf of Mexico this weekend while it moves slowly west-northwestward or northwestward.
- The National Hurricane Center (NHC) is outlooking a **low (20%) chance of development** over the next 48 hours, and a **medium (50%) chance of development** over the next 7 days.
- *This system poses no direct threat to Florida at this time.*

## Florida Outlook:

- Regardless of development, Invest 92L looks to bring increasing rain chances across Northeast Florida late week.
- Hazardous beach and boating conditions can be expected today through the remainder of the week; peak wave heights of 5-8' can be expected for Florida East Coast beaches.
  - High Surf Advisories will remain in effect through Friday morning/afternoon for the Central-East Coast and Northeast Coast, respectively.
  - Large ocean swells and breezy onshore winds will also create a high risk for rip currents along the entire Florida East Coast by midweek.
- Localized minor tidal flooding cannot be ruled out along the Northeast and Space Coasts and along the Florida Panhandle near and during time of high tide with the upcoming full moon and elevated surf conditions.
- Elevated surf and a high risk for rip currents can be expected along Florida Panhandle beaches throughout the week.
  - Wave heights of 3-6' can be expected, with breaking waves in the surf zone upwards of 6' further offshore.
  - A High Surf Advisory will remain in effect through this evening for the far western Panhandle counties (Escambia, Santa Rosa, and Okaloosa).
- The second name of the 2024 Atlantic hurricane season is Beryl (*BEHR-rii*).

The next briefing package will be issued on Friday. For the latest information, please visit the [National Hurricane Center website](#).



# Tropical Update



Created by:

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**State Meteorological Support Unit**

**Florida Division of Emergency Management**

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