



# Tropical Update



11:15 AM EDT

Friday, June 21, 2024

**Invest 92L (60% Chance of Development);  
Southwestern Gulf of Mexico Disturbance  
(60% Chance of Development)**

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

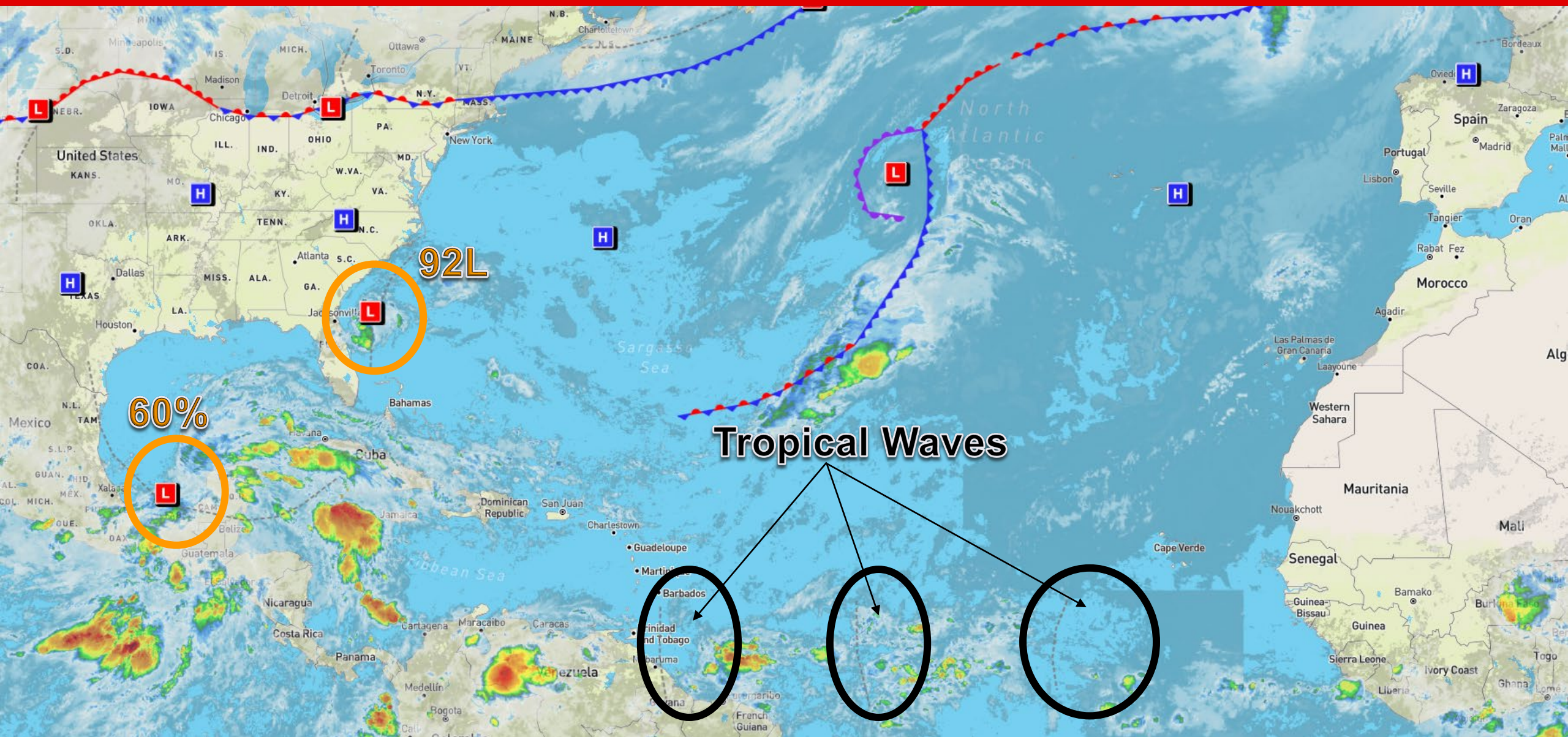
Chance of development:

None

Low

Medium

High





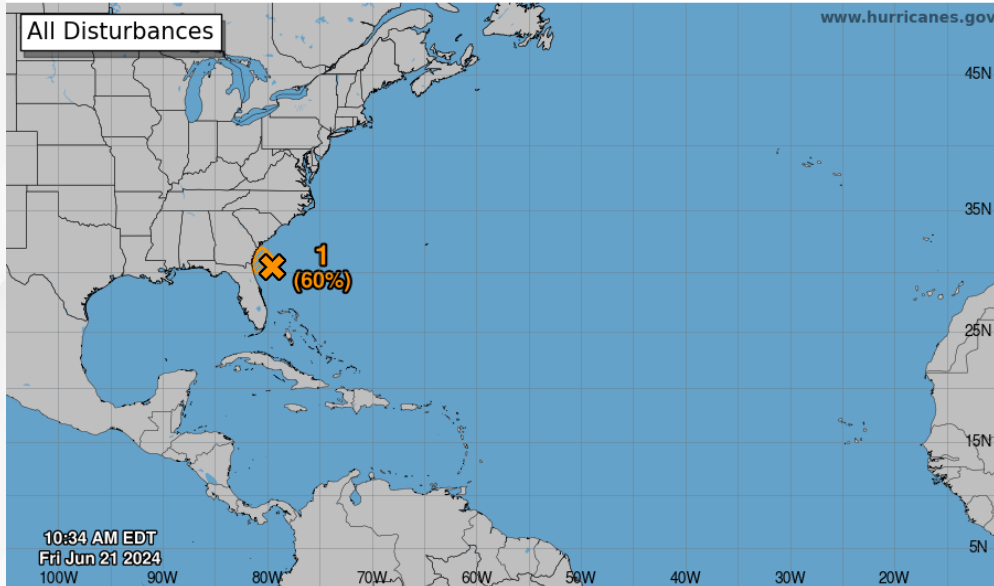


# Tropical Weather Outlook

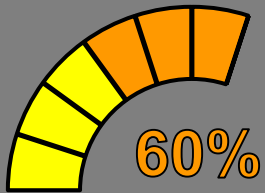
## Disturbance 1 – Invest 92L ([LINK](#))



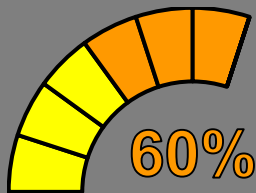
### Seven-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida



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 special 10:35 AM EDT Outlook has been issued for Invest 92L –

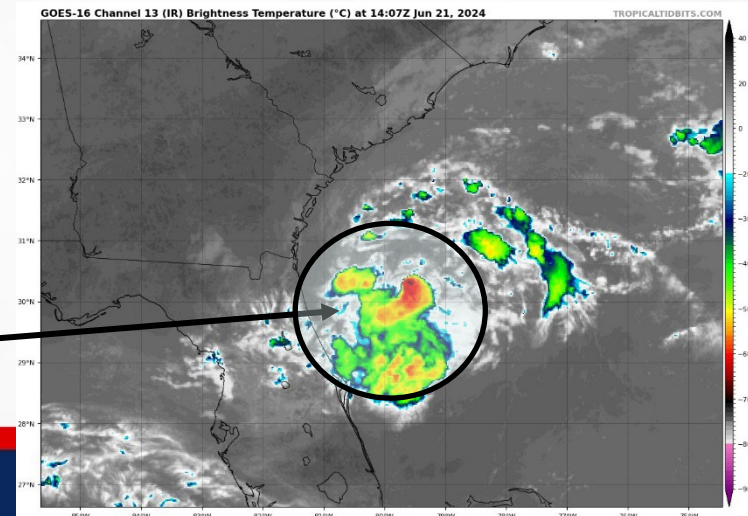
Recent data from an Air Force Reserve reconnaissance aircraft and satellite imagery indicate that the area of low pressure, located about 120 miles east of Jacksonville, Florida, has developed a well-defined center of circulation and is producing winds near 35 mph, but the associated showers and thunderstorms are not quite organized enough for this system to be considered a tropical cyclone. However, only a small increase in the organization of the showers and thunderstorms could result in the formation of a short-lived tropical depression before it reaches the coast of Northeast Florida or Southeast Georgia tonight.

*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...60%.**

\* Formation chance through 7 days...**medium...60%.**

Invest 92L has a decent center of circulation; however, findings from the Hurricane Hunters this morning determine that the thunderstorm activity still not well-organized.





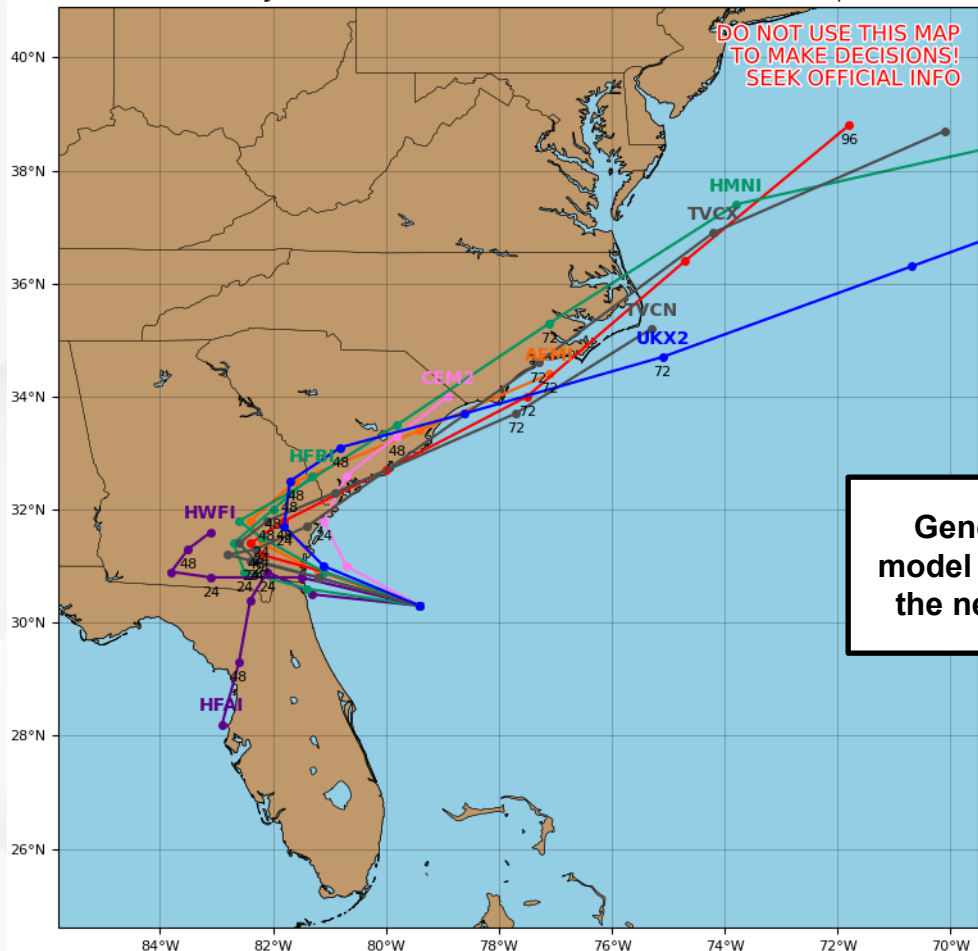
# Model Forecasts – Next 5 Days

## Invest 92L

### Invest 92L Model Track Guidance

Initialized at 12z Jun 21 2024

Levi Cowan - tropicaltidbits.com



General computer  
model consensus over  
the next 12-24 hours

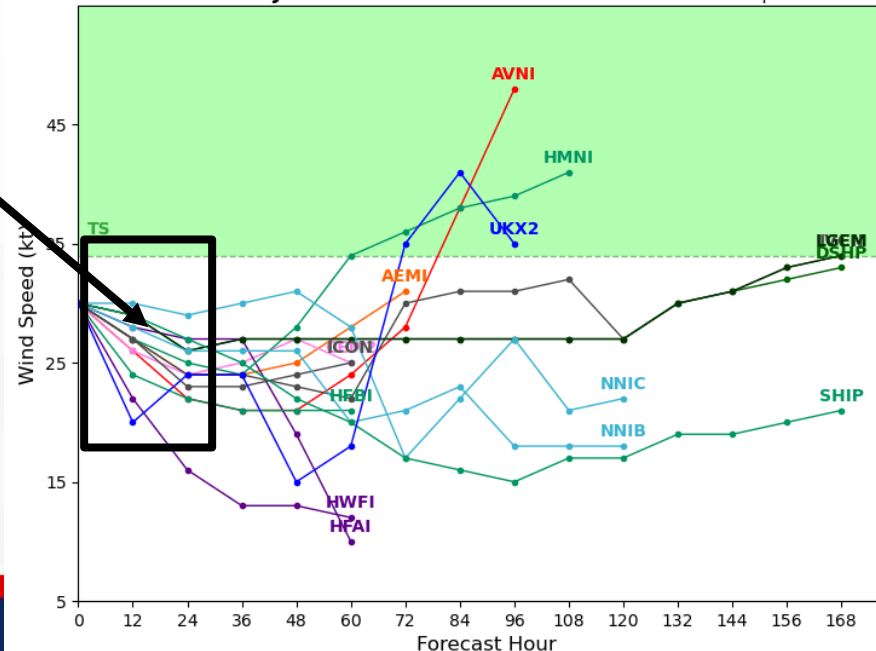
Computer models are in good agreement that a faster west-northwestward motion is expected to continue today as Invest 92L is forecast to reach the Northeast Florida Coast or Southeast Georgia Coast within the next 12 hours.

While environmental conditions remain somewhat supportive for further development, due to neighboring pockets of dry air, some slight organization in 92L's thunderstorm activity will be possible; however, the proximity to land will limit the system as a short-lived tropical depression.

### Invest 92L Model Intensity Guidance

Initialized at 12z Jun 21 2024

Levi Cowan - tropicaltidbits.com

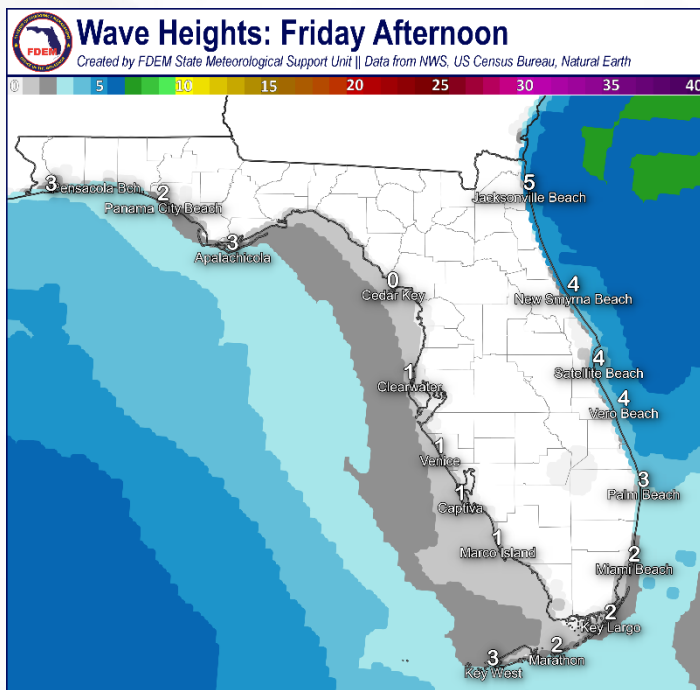




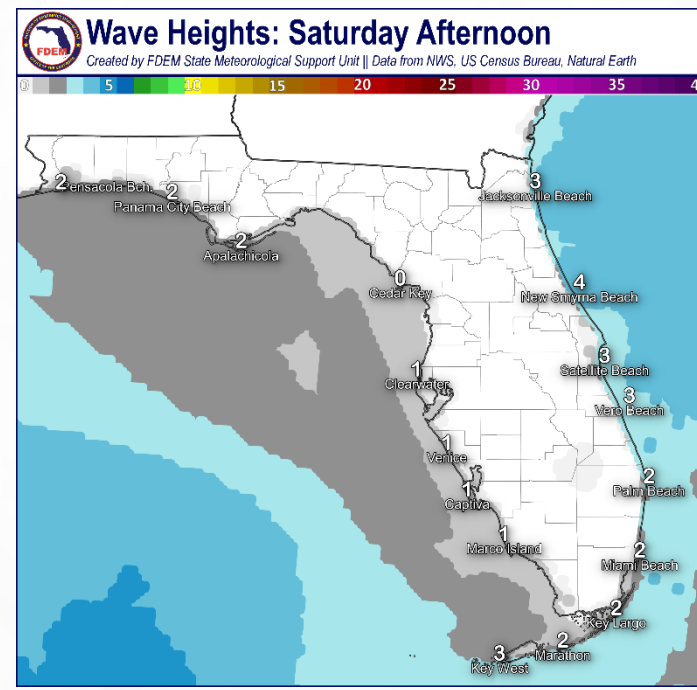
# Forecast Wave Heights

From the National Weather Service (NWS)

## This Afternoon



## Saturday Afternoon



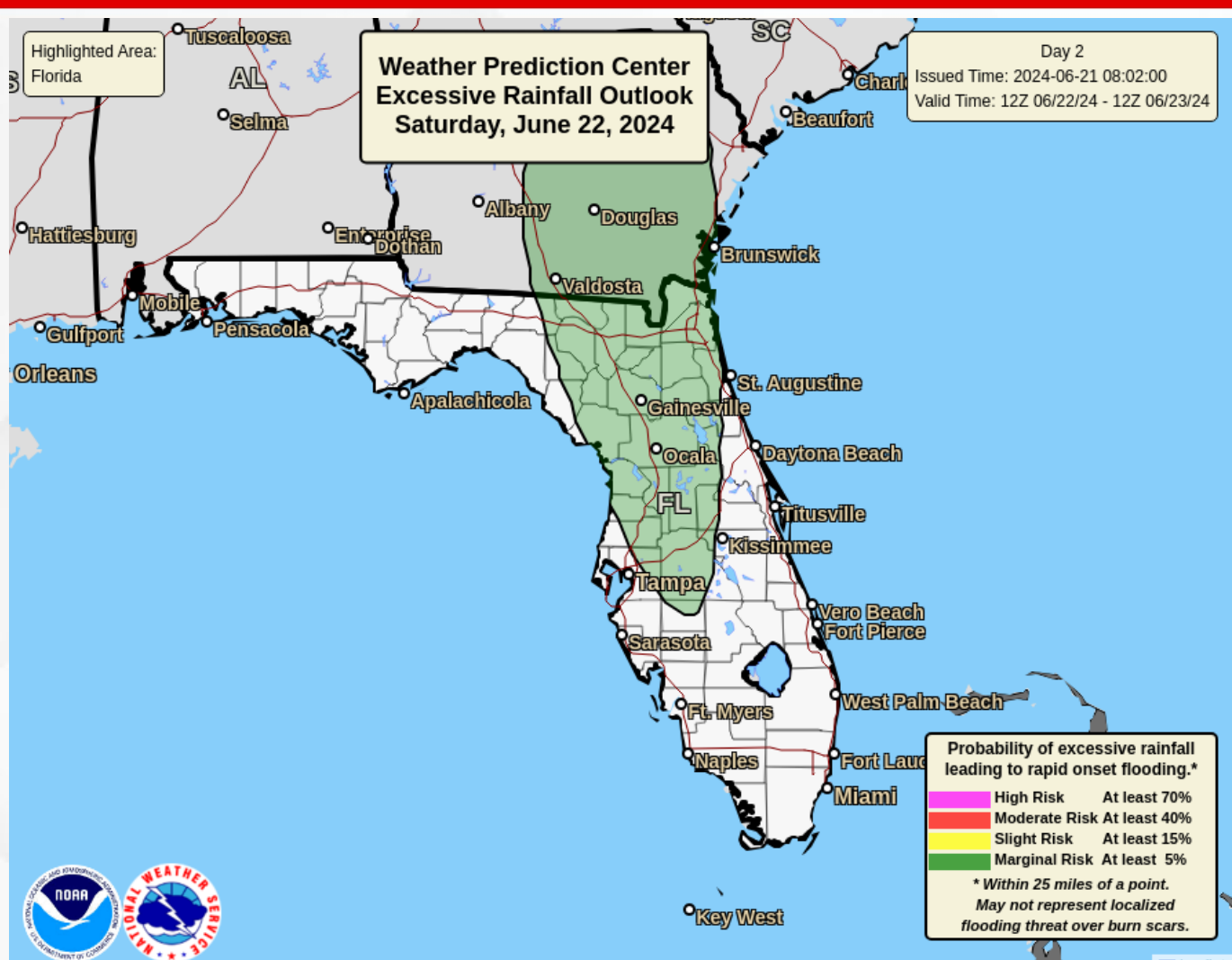
Breezy onshore winds along the Florida East Coast will gradually increase wave heights as Invest 92L approaches the Northeast Florida Coast later today. A **High Surf Advisory** remains in effect until 5:00 PM EDT this evening as lingering breaking waves of 4-7' can be expected for Nassau, Duval, St. Johns, and Flagler county beaches. **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.

A **high risk of rip currents** will continue for Florida East Coast beaches today, with **moderate risk** conditions returning this weekend into early next week.



# Flash Flood Risk

From the Weather Prediction Center (WPC)



The Weather Prediction Center (WPC) is outlooking a **Marginal (level 1 of 4) Risk for Flash Flooding** across portions of Northeast Florida and along the I-75 corridor on Saturday. Some of the shower and thunderstorm activity influenced from Invest 92L may be slow-moving in nature. While most of this rainfall will be beneficial for many locations, locally heavy rainfall may cause localized runoff issues for urban corridors and low-lying/poor drainage areas.

Computer forecast models show a widespread 1-3" of rainfall possible through the weekend, with localized amounts of 3-6" cannot be ruled out.

### 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.
<a href="http://www.wpc.ncep.noaa.gov">@NWSWPC</a>				
Flash flooding near me?	Flash Flooding			
WEATHER PREDICTION CENTER				

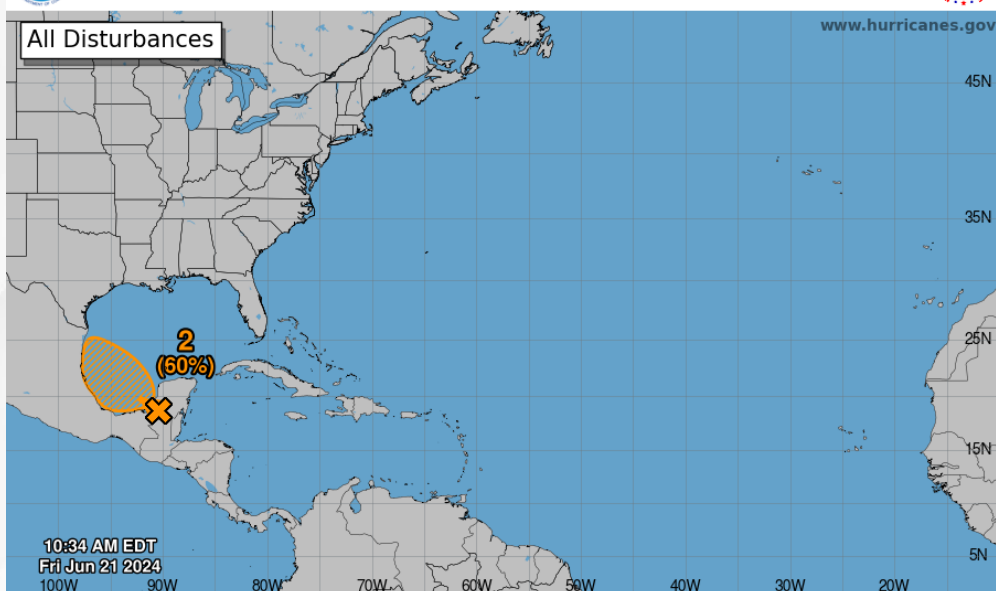




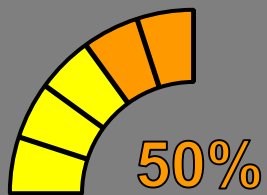
# Tropical Weather Outlook

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

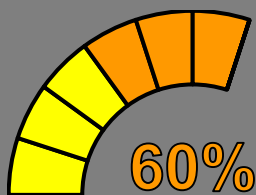
Seven-Day Graphical Tropical Weather Outlook  
National Hurricane Center Miami, Florida



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 broad area of low pressure is forecast to form over southeastern Mexico later today. Atmospheric conditions appear supportive for gradual development after this system moves over the Bay of Campeche tonight, 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.*

- \* Formation chance through 48 hours...**medium...50%.**
- \* Formation chance through 7 days...**medium...60%.**

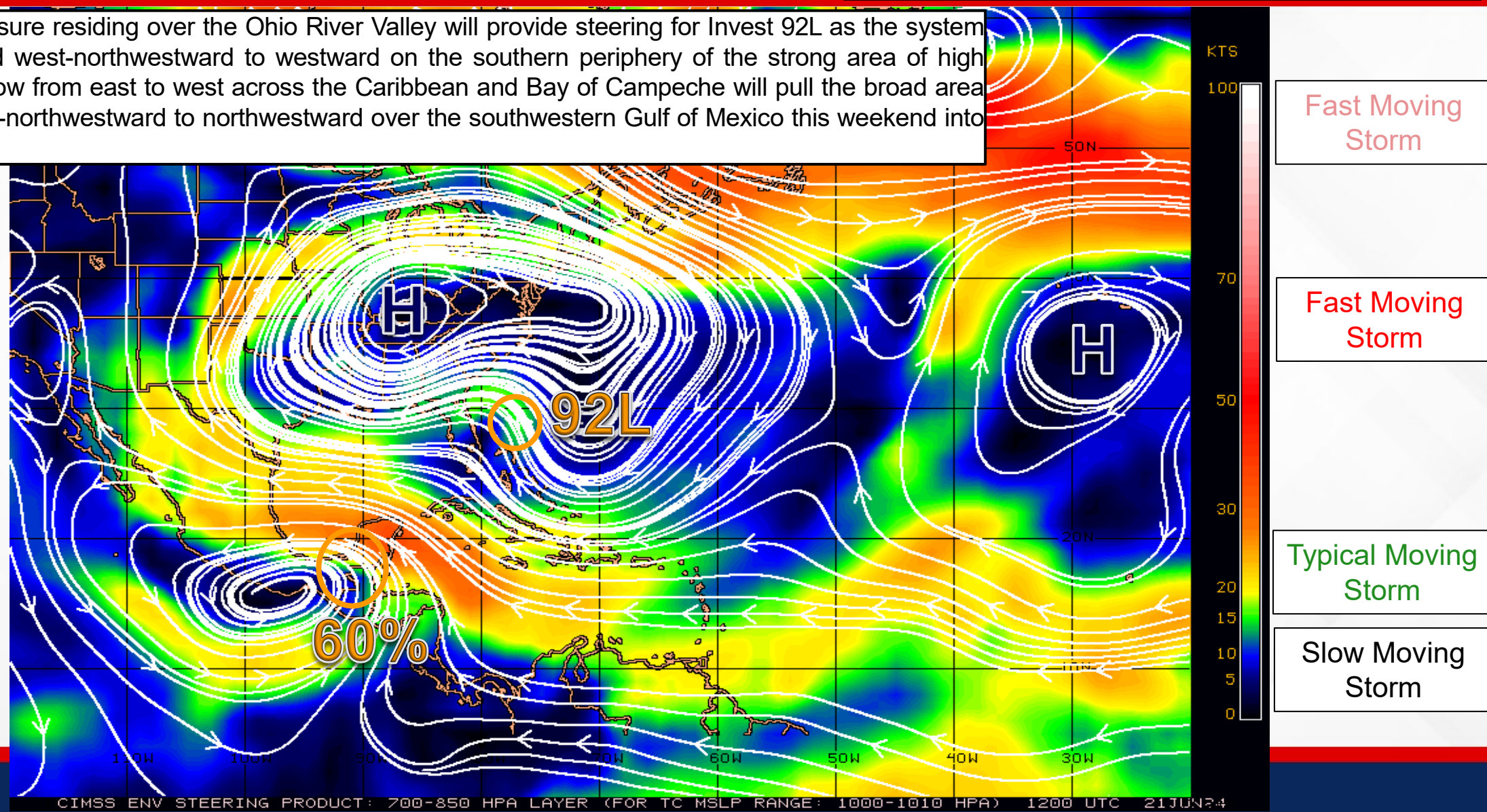


# Steering Currents

## 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 over the Ohio River Valley will provide steering for Invest 92L as the system will be quickly pulled west-northwestward to westward on the southern periphery of the strong area of high pressure. Steering flow from east to west across the Caribbean and Bay of Campeche will pull the broad area of low pressure west-northwestward to northwestward over the southwestern Gulf of Mexico this weekend into early next week.







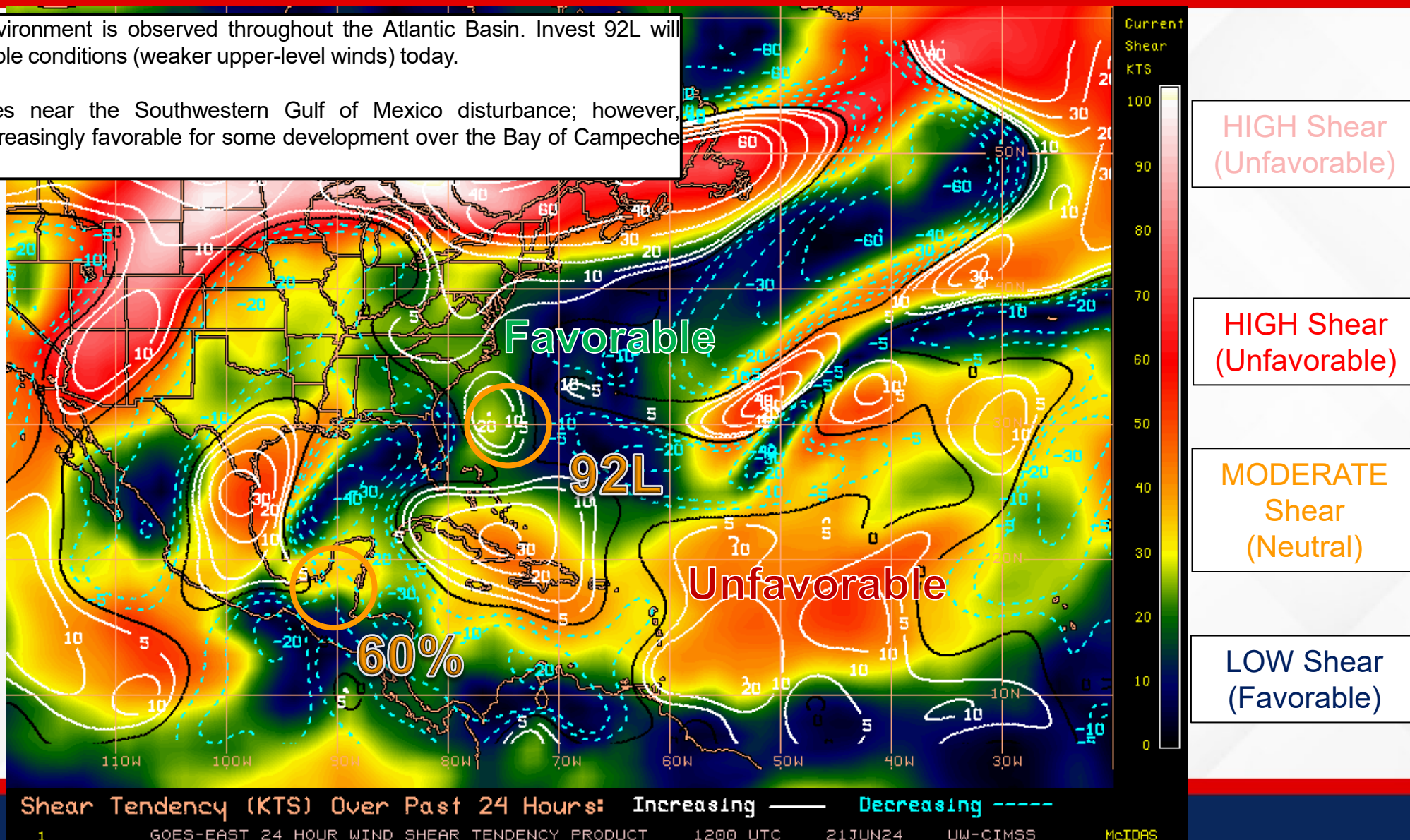
# Wind Shear

## 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) today.

Moderate wind shear resides near the Southwestern Gulf of Mexico disturbance; however, conditions look to become increasingly favorable for some development over the Bay of Campeche over the next 7 days.



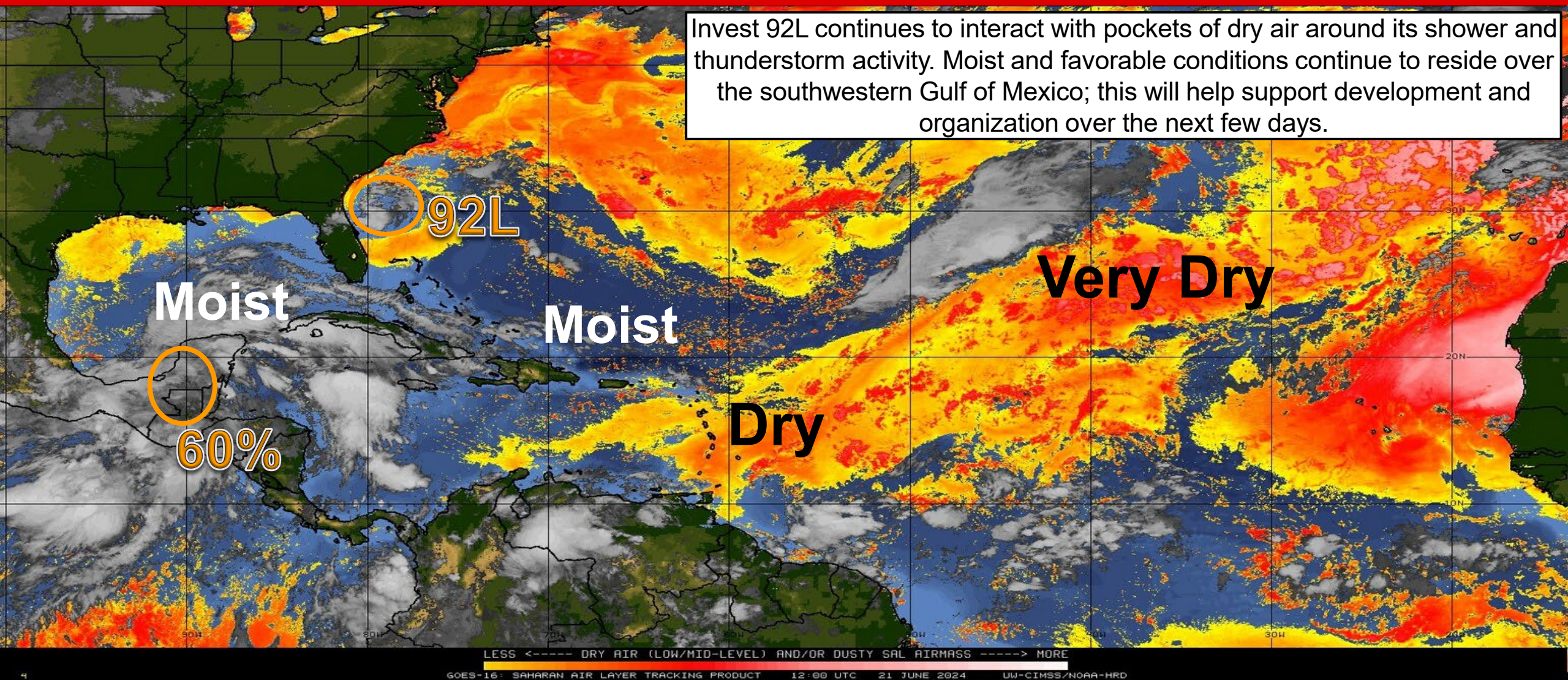




# Dry Air & Saharan Dust

Is the environment favorable for the system?

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







# Summary

## Invest 92L:

- **A special 10:35 AM EDT Outlook has been issued for Invest 92L.**
- Recent data from an Air Force Reserve reconnaissance aircraft and satellite imagery indicate that the area of low pressure, located about 120 miles east of Jacksonville, Florida, has developed a well-defined center of circulation.
- Invest 92L is producing winds near 35 mph, but the associated showers and thunderstorms are not quite organized enough for this system to be considered a tropical cyclone.
- However, only a small increase in the organization of the showers and thunderstorms could result in the formation of a short-lived tropical depression before it reaches the coast of Northeast Florida or Southeast Georgia tonight.
- The National Hurricane Center (NHC) is outlooking a **medium (60%) chance of development** over the next 48 hours.

## Southwestern Gulf of Mexico:

- A broad area of low pressure is forecast to form over southeastern Mexico later today.
- Atmospheric conditions appear supportive for gradual development after this system moves over the Bay of Campeche tonight, 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 **medium (50%) chance of development** over the next 48 hours, and a **medium (60%) chance of development** over the next 7 days.
- *This system poses no direct threat to Florida.*

## Florida Outlook:

- Regardless of development, Invest 92L looks to bring increasing rain chances across Northeast Florida.
- Hazardous beach and boating conditions can be expected today through the remainder of the week; peak wave heights of 4-7' can be expected for Florida East Coast beaches.
  - High Surf Advisories will remain in effect for Northeast Florida beaches through 5:00 PM EDT this evening.
  - A high risk of rip currents can be expected along all Florida East Coast beaches today, with moderate risk conditions returning later this weekend.
- 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.
- The Weather Prediction Center (WPC) is outlooking a Marginal (level 1 of 4) Risk for Flash Flooding across portions of Northeast Florida and along the I-75 corridor on Saturday.
  - Some of the shower and thunderstorm activity influenced from Invest 92L may be slow-moving in nature. While most of this rainfall will be beneficial for many locations, locally heavy rainfall may cause localized runoff issues for urban corridors and low-lying/poor drainage areas.
  - Computer forecast models show a widespread 1-3" of rainfall possible through the weekend, with localized amounts of 3-6" cannot be ruled out.
- The second name of the 2024 Atlantic hurricane season is Beryl (*BEHR-ril*).

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





# Tropical Update



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**State Meteorological Support Unit**

**Florida Division of Emergency Management**

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