



Tropical Update



10:45 AM EDT

Saturday, June 22, 2024

Invest 93L (50% Chance of Development);

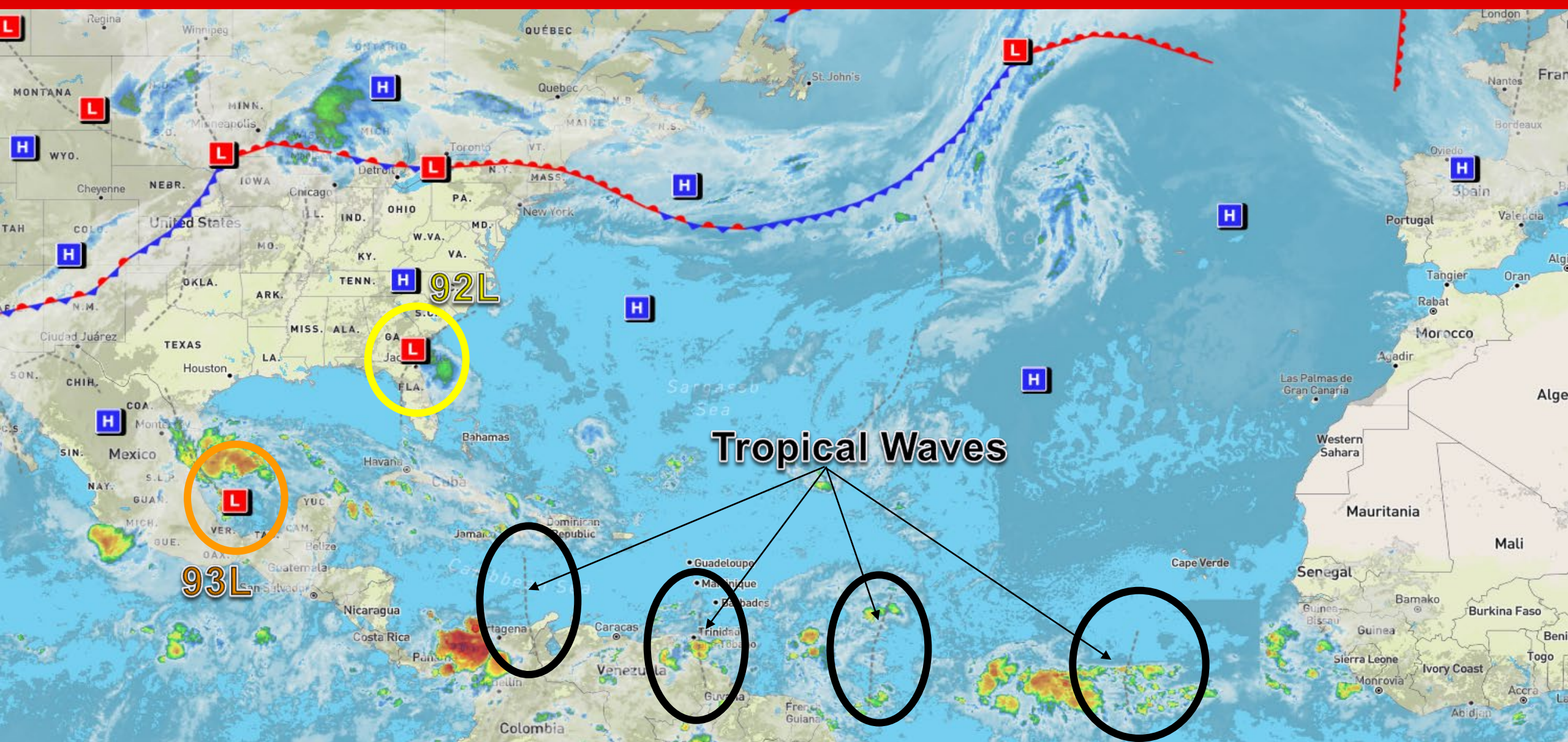
Invest 92L (near 0% Chance of Development)

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.



Atlantic Basin Satellite Image

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





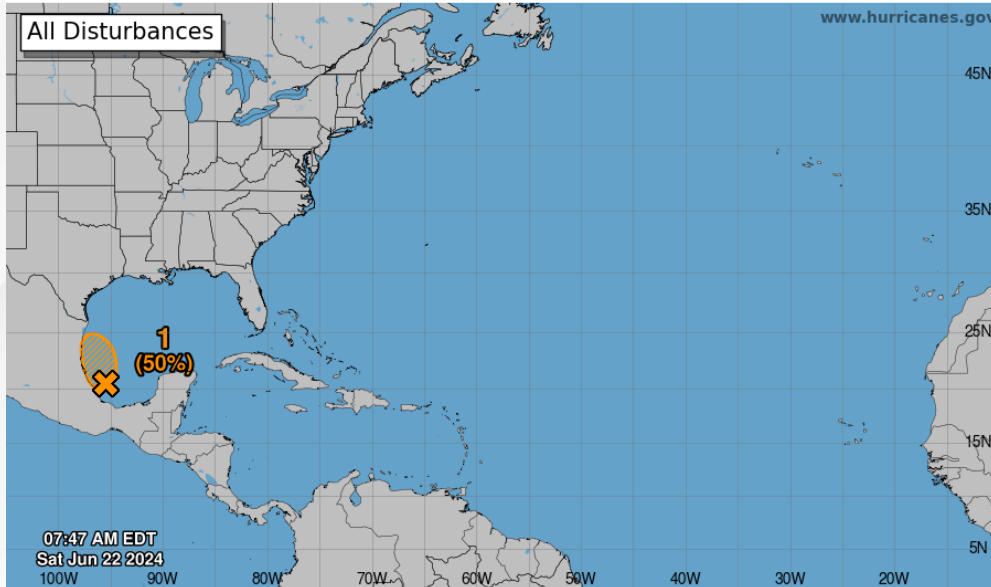
Tropical Weather Outlook

Disturbance 1 – Invest 93L ([LINK](#))

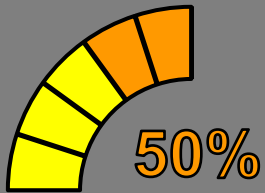


Seven-Day Graphical Tropical Weather Outlook

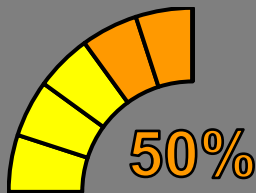
National Hurricane Center Miami, Florida



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



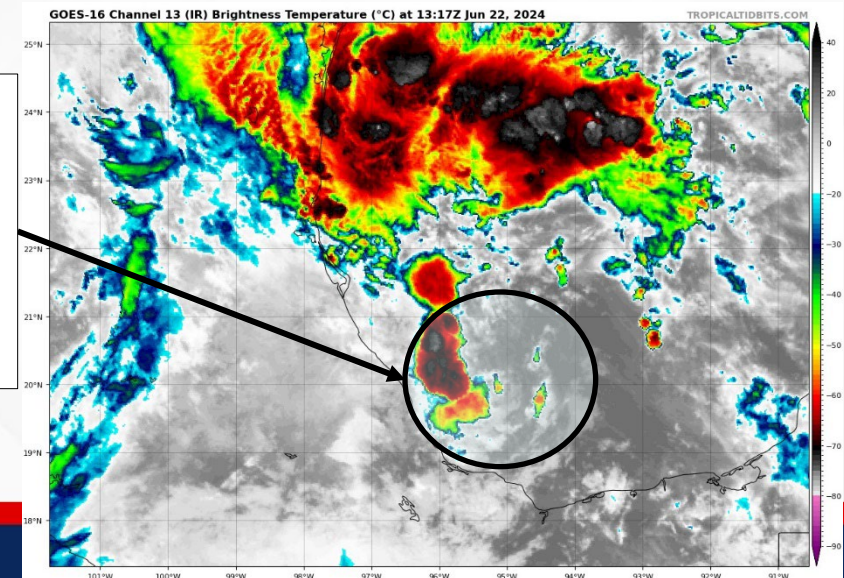
7 Day Formation

A broad low-pressure system located over the southwestern Gulf of Mexico is producing a large areas of disorganized showers and thunderstorms. Environmental conditions appear conducive for gradual development of this system as it moves slowly west-northwestward or northwestward, and a tropical depression could form before the system reaches the coast of northeastern Mexico Sunday night. Regardless of development, heavy rainfall could cause localized flooding across portions of northeastern Mexico and Deep South Texas through the end of the weekend. An Air Force reconnaissance aircraft is scheduled to investigate this system later today, if necessary.

This system poses no direct threat to Florida.

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

Invest 93L is producing disorganized showers and thunderstorms to the west and well to the north of the estimated center of the system. The system lacks structure and a well-defined center of circulation.



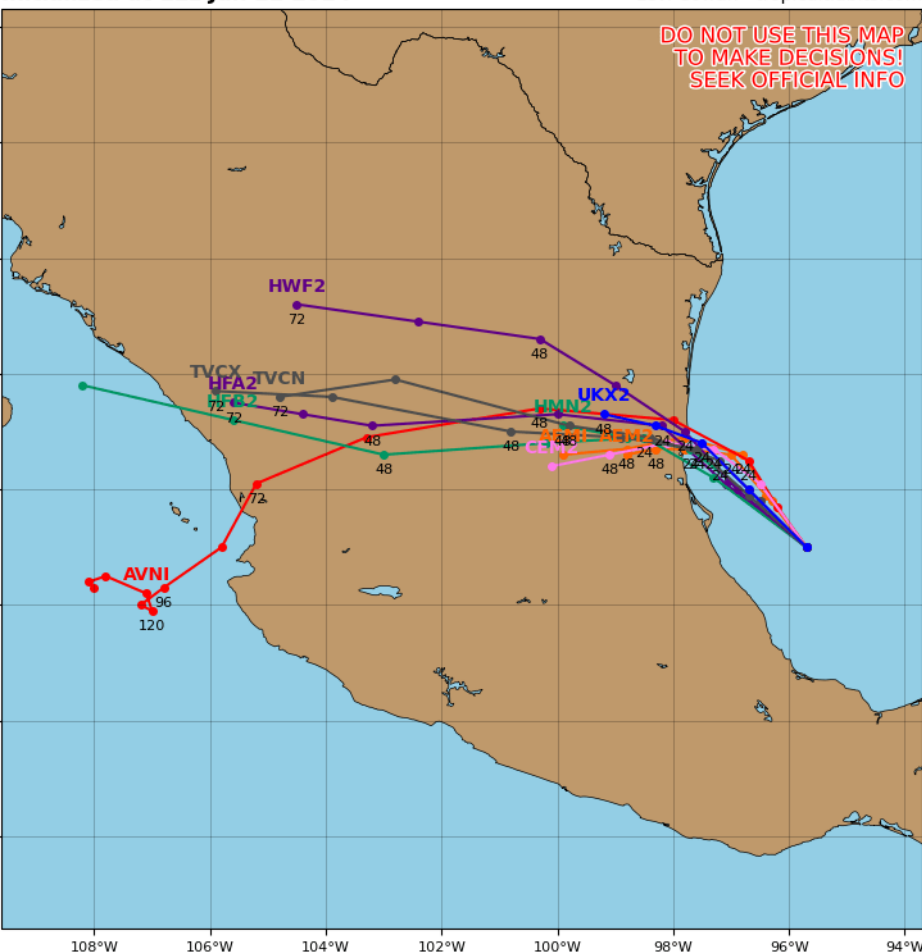


Model Forecasts – Next 5 Days

Invest 93L

Invest 93L Model Track Guidance

Initialized at 12z Jun 22 2024 Levi Cowan - tropicaltidbits.com



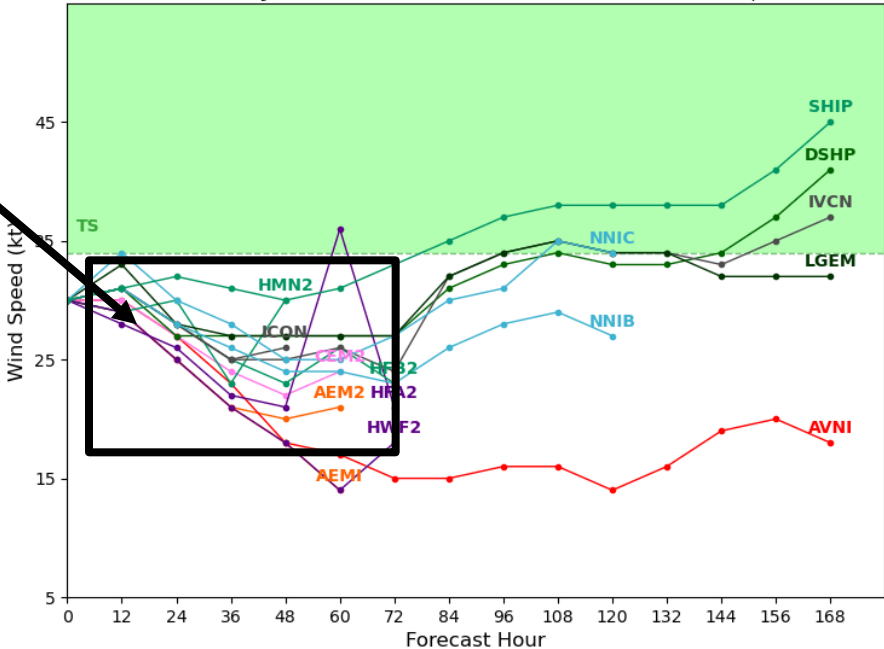
Computer models are in good agreement that a slow northwestward motion will continue over the next 24 hours as Invest 93L approaches the Gulf coast of Northeastern Mexico. Invest 93L will likely take on a more west-northwestward to westward motion within 36 hours as it reaches the Gulf coast of Mexico.

While environmental conditions appear supportive for gradual development, Invest 93L's proximity to land will limit the overall strength of the system. Computer models are in agreement that Invest 93L will remain weak; however, a tropical depression could briefly form before the system reaches the Gulf coast of Mexico Sunday night.

General computer model consensus over the next 12-72 hours

Invest 93L Model Intensity Guidance

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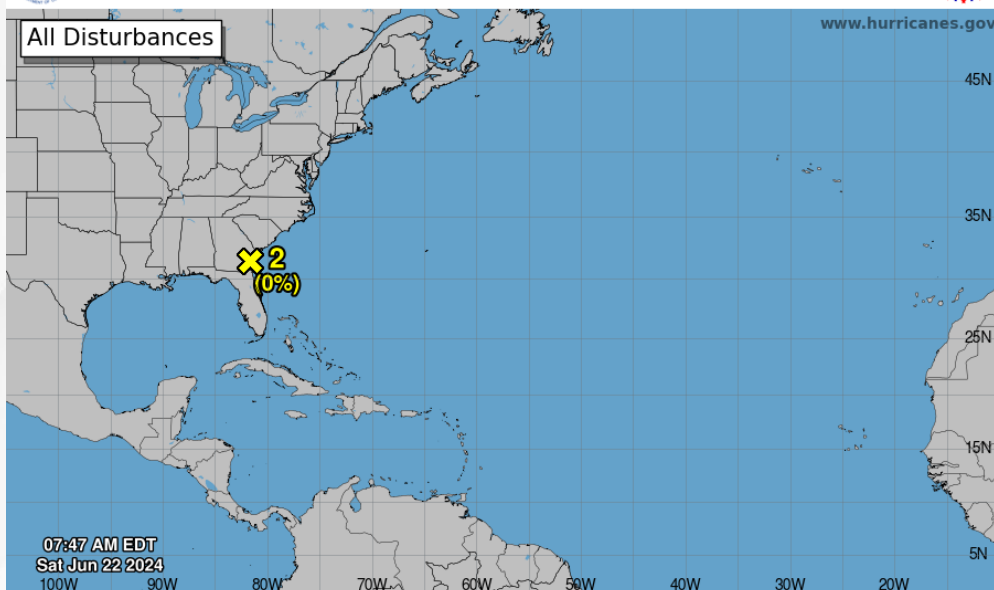
Tropical Weather Outlook

Disturbance 2 – 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

Near 0%

48 Hour Formation

Near 0%

7 Day Formation

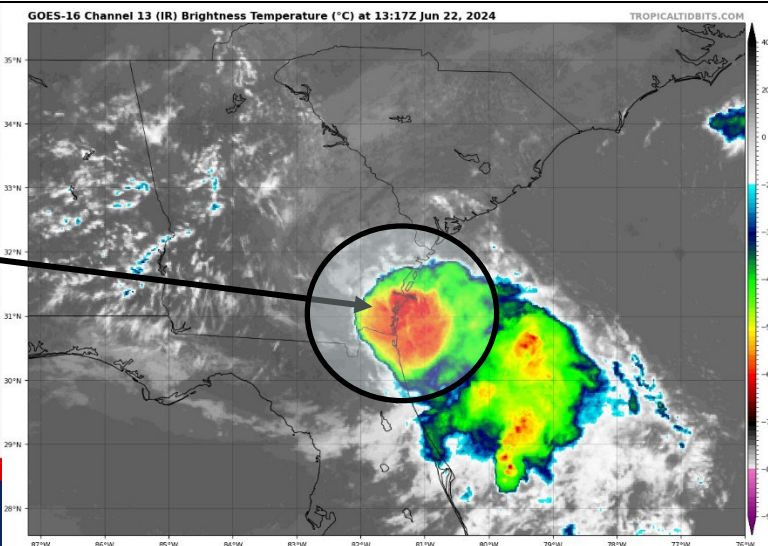
A low-pressure system centered inland over southeastern Georgia is producing disorganized showers and thunderstorms, mainly over the coastal waters off of northeastern Florida and Georgia. The low is expected to drift slowly northwestward or northward today before dissipating tonight. Tropical cyclone formation is not expected.

Regardless of development, an increase in rain chances along the Florida East Coast and Northern Peninsula, breezy coastal winds, localized urban flooding, isolated coastal flooding and erosion, and dangerous beach/marine conditions will be possible.

* Formation chance through 48 hours...**low...near 0%.**

* Formation chance through 7 days...**low...near 0%.**

Invest 92L has become increasingly disorganized as it moves inland over southeastern Georgia. Shower and thunderstorm activity persists to the east and southeast of the estimated low-pressure center, over coastal waters off of northeastern Florida and Georgia.





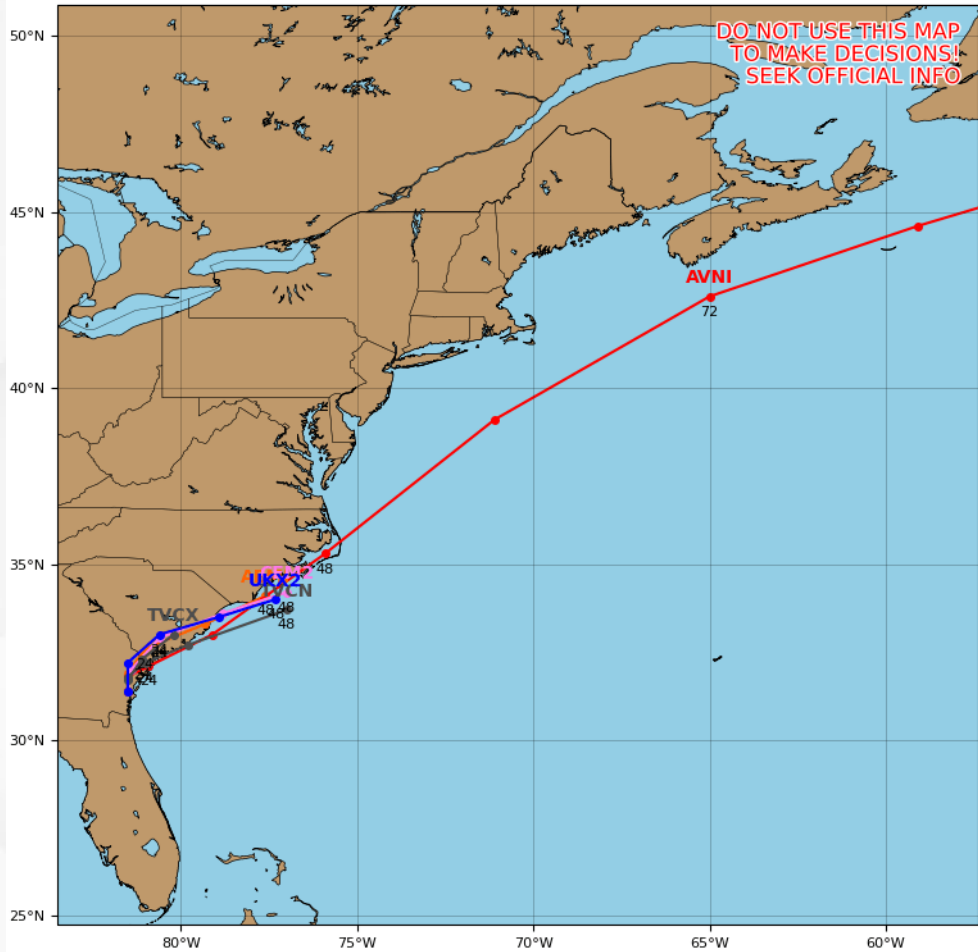
Model Forecasts – Next 5 Days

Invest 92L

Invest 92L Model Track Guidance

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Computer models are in good agreement that a slow northwestward or northward motion is expected to continue today as Invest 92L moves further inland into Southeastern Georgia over the next 12 hours before dissipating.

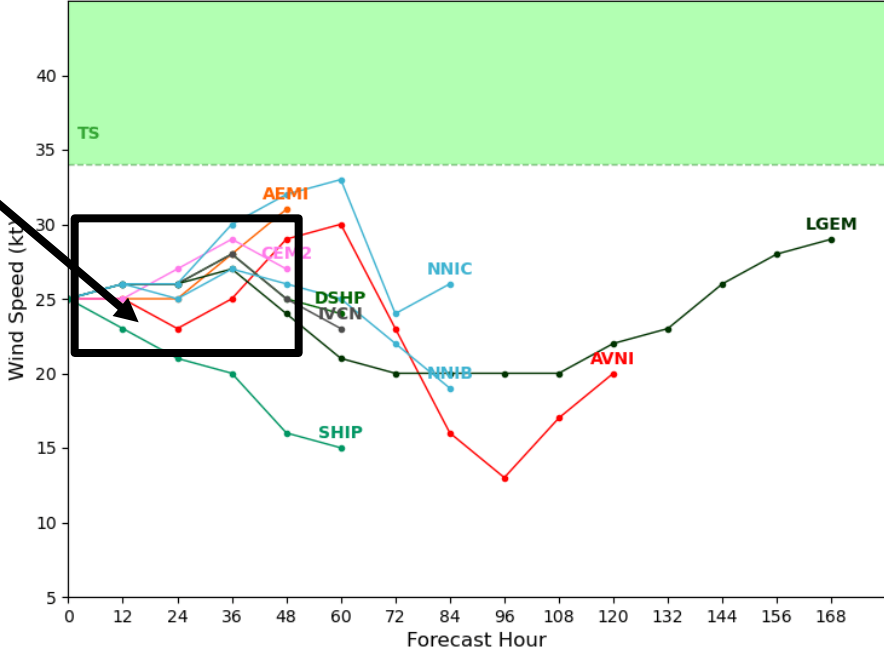
With the center of the low-pressure system now over land, Invest 92L will continue to become increasingly disorganized over the next 12-24 hours, dissipating overnight.

General computer model consensus over the next 12-48 hours

Invest 92L Model Intensity Guidance

Initialized at 12z Jun 22 2024

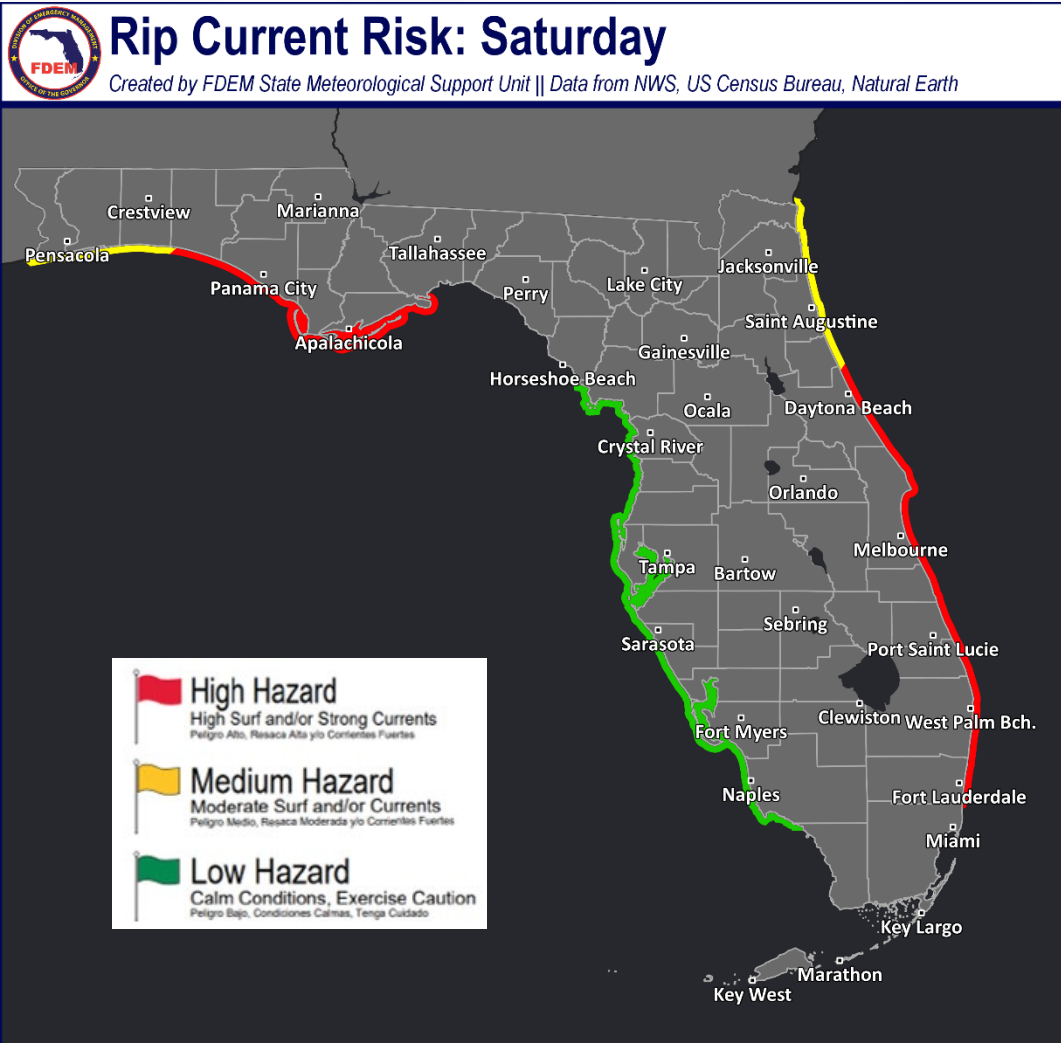
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Rip Current Risk – Today

From the National Weather Service (NWS)



A **high risk for rip currents** persists along the several Florida Panhandle beaches due to long-period swells and along the Southeast and Central-East Coast as breezy onshore flow persists. Northeast Coast beaches and all other Panhandle beaches will see a **moderate risk for rip currents** today.

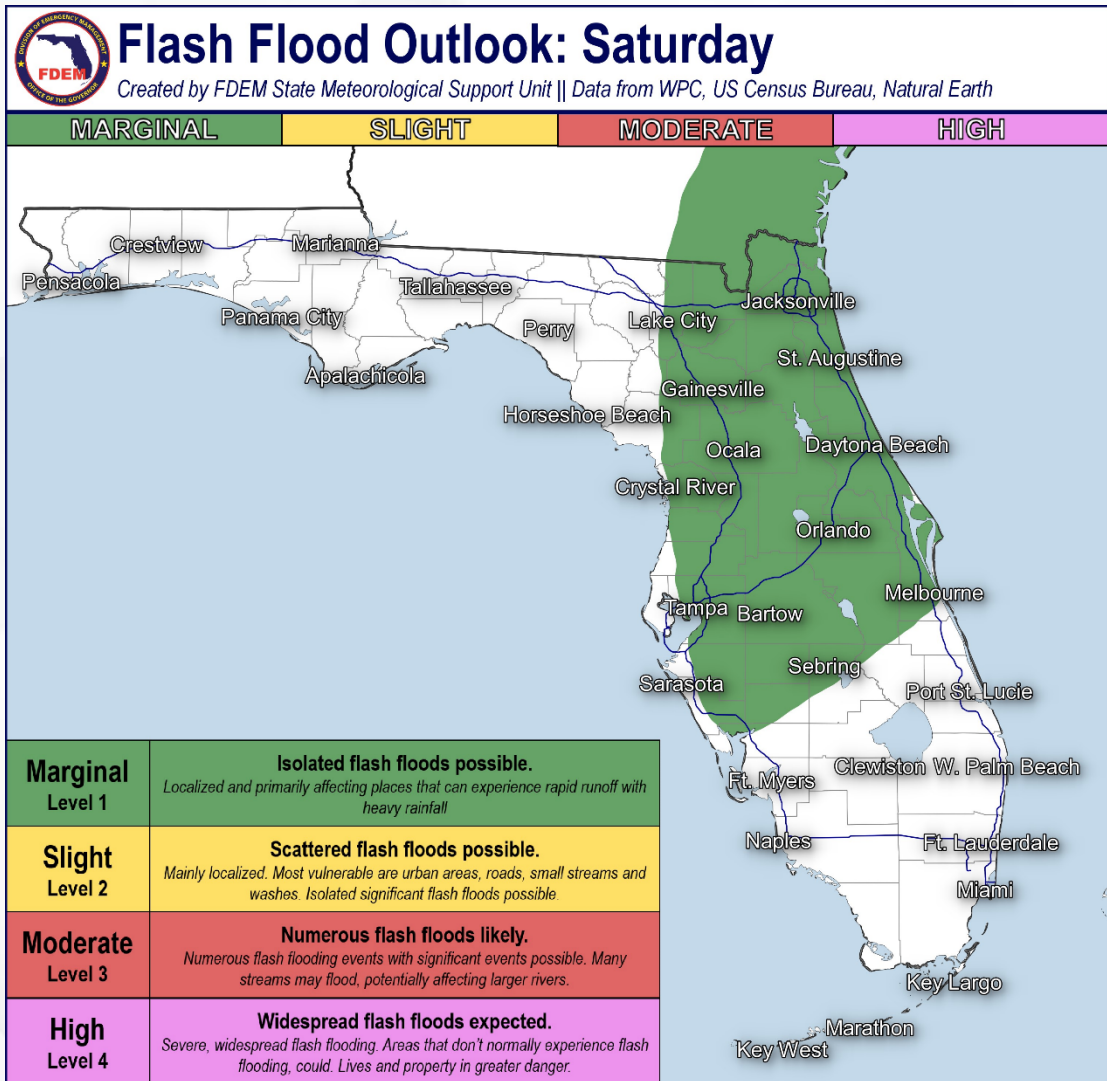
Ocean swells will begin to dissipate today as breezy onshore winds gradually calm. 2-4' **wave heights** can continue to be expected along the Florida Atlantic Coast while all other beaches can anticipate wave heights to return to 1-2'.

While coastal flooding is not expected today, **elevated water levels** will continue to be possible along the East Coast at times of high tide.



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 the Northern and Central Peninsula today. 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.
@NWSWPC				
Flash flooding near me?	Flash Flooding			
	NO Flash Flooding			
 WEATHER PREDICTION CENTER				

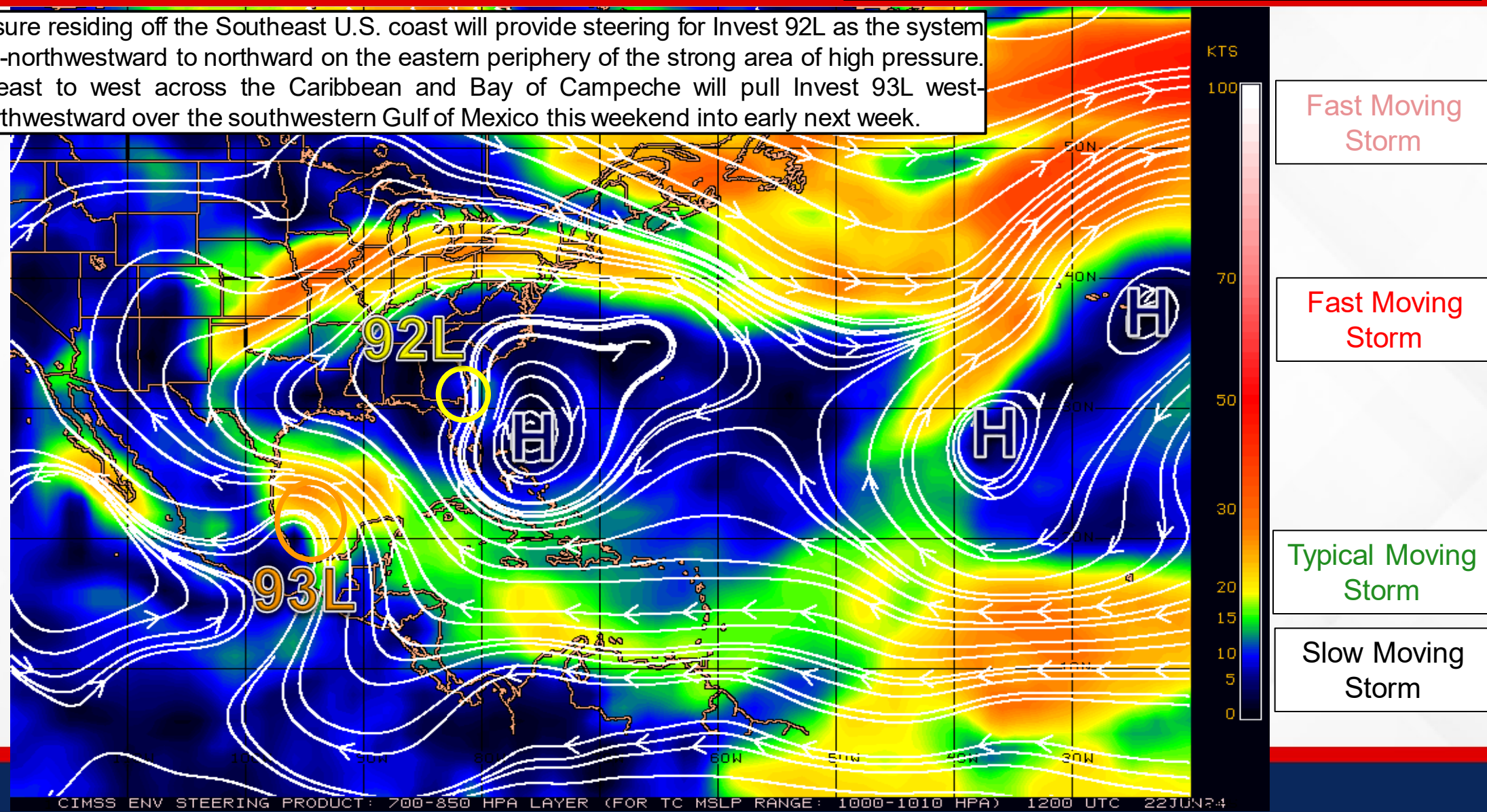


Steering Currents

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 off the Southeast U.S. coast will provide steering for Invest 92L as the system is slowly pulled north-northwestward to northward on the eastern periphery of the strong area of high pressure. Steering flow from east to west across the Caribbean and Bay of Campeche will pull Invest 93L west-northwestward to northwestward over the southwestern Gulf of Mexico this weekend into early next week.



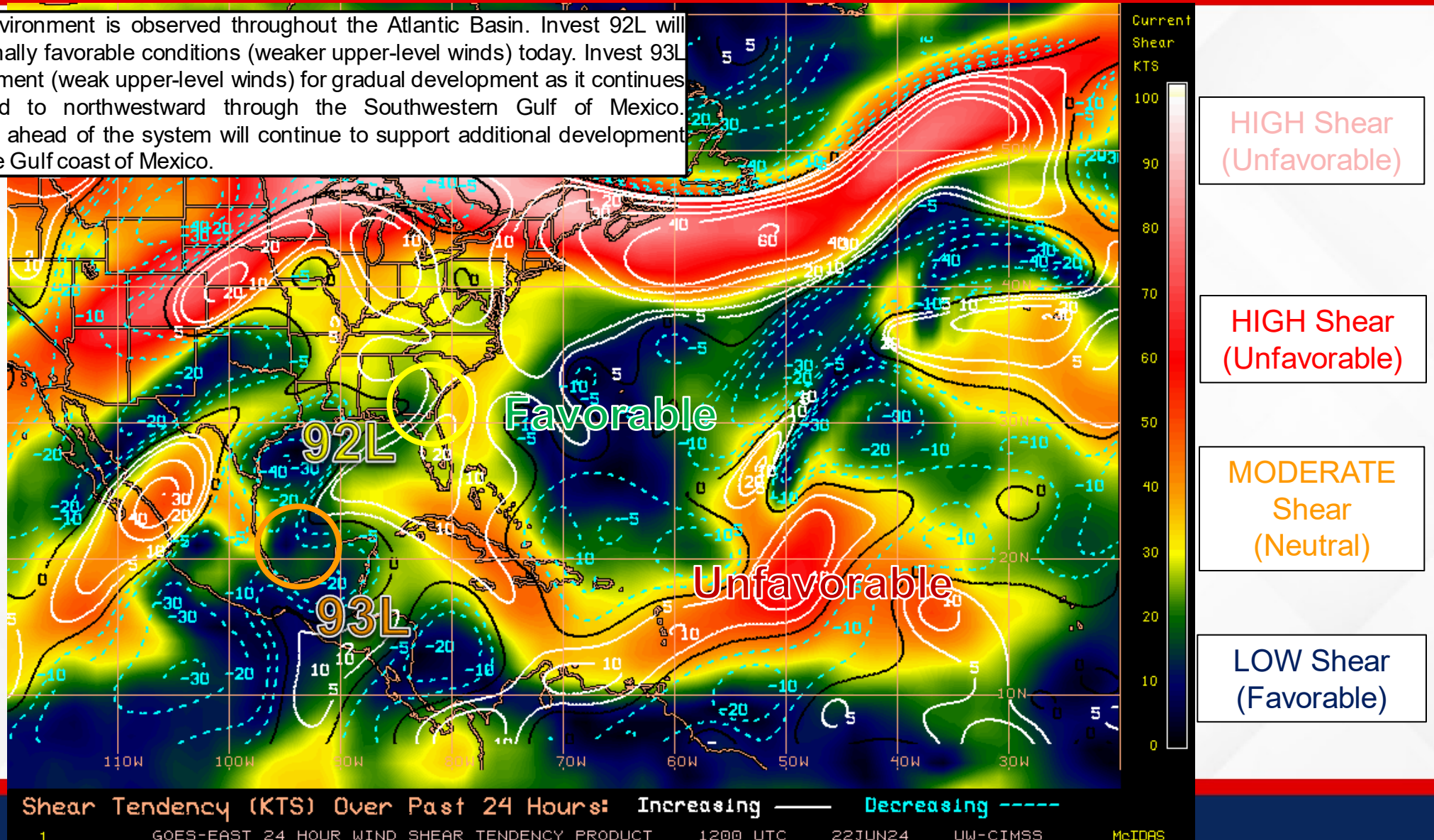


Wind Shear

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 marginally favorable conditions (weaker upper-level winds) today. Invest 93L resides in a favorable environment (weak upper-level winds) for gradual development as it continues to move west-northwestward to northwestward through the Southwestern Gulf of Mexico. Weakening upper-level winds ahead of the system will continue to support additional development before the system reaches the Gulf coast of Mexico.



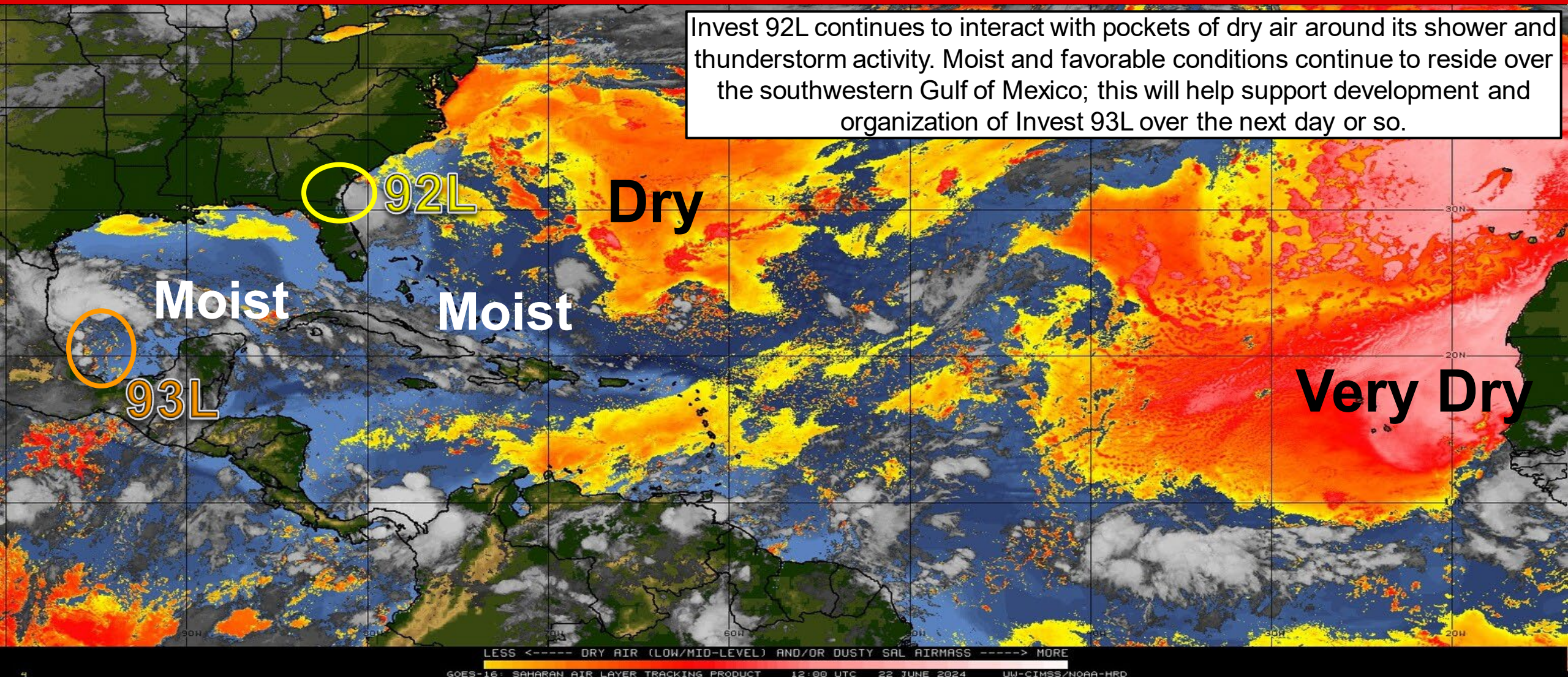


Dry Air & Saharan Dust

Is the environment favorable for the system?

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

Invest 92L continues to interact with pockets of dry air around its shower and thunderstorm activity. Moist and favorable conditions continue to reside over the southwestern Gulf of Mexico; this will help support development and organization of Invest 93L over the next day or so.



LESS <----- DRY AIR (LOW/MID-LEVEL) AND/OR DUSTY SAL AIRMASS -----> MORE

GOES-16: SAHARAN AIR LAYER TRACKING PRODUCT 12:00 UTC 22 JUNE 2024 UW-CIMSS/NOAA-HRD



Summary

Invest 93L:

- A broad low-pressure system located over the southwestern Gulf of Mexico is producing a large areas of disorganized showers and thunderstorms.
- Environmental conditions appear conducive for gradual development of this system as it moves slowly west-northwestward or northwestward, and a tropical depression could form before the system reaches the coast of northeastern Mexico Sunday night.
- Regardless of development, heavy rainfall could cause localized flooding across portions of northeastern Mexico and Deep South Texas through the end of the weekend.
- An Air Force reconnaissance aircraft is scheduled to investigate this system later today, if necessary.
- The National Hurricane Center (NHC) is outlooking a **medium (50%) chance of development** over the next 48 hours and the next 7 days.
- *This system poses no direct threat to Florida.*

Invest 92L:

- A low-pressure system centered inland over southeastern Georgia is producing disorganized showers and thunderstorms, mainly over the coastal waters off of northeastern Florida and Georgia.
- The low is expected to drift slowly northwestward or northward today before dissipating tonight.
- Tropical cyclone formation is not expected.
- The National Hurricane Center (NHC) is outlooking a **low (near 0%) chance of development** over the next 48 hours and the next 7 days.

Florida Outlook:

- Regardless of development, Invest 92L will continue bring increasing rain chances across the Northern Peninsula as the tropical airmass interacts with the afternoon sea breezes.
- Scattered to numerous showers and thunderstorms are anticipated across the Peninsula; a few strong to severe thunderstorms producing gusty winds and heavy rainfall cannot be ruled out during peak heating hours and as sea breezes collide over the interior Peninsula.
- The Weather Prediction Center (WPC) is outlooking a Marginal (level 1 of 4) Risk for Flash Flooding across portions of North and Central Florida today.
 - 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.
- A high risk of rip currents can be expected along Southeast and Central-East Coast beaches and several Florida Panhandle beaches today, with moderate risk along the Northeast Coast.
- The second name of the 2024 Atlantic hurricane season is Beryl (*BEHR-ril*).

The next briefing package will be issued on Sunday. 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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