



TROPICAL UPDATE



9:00 AM EDT

Sunday, September 5, 2021

Major Hurricane Larry &

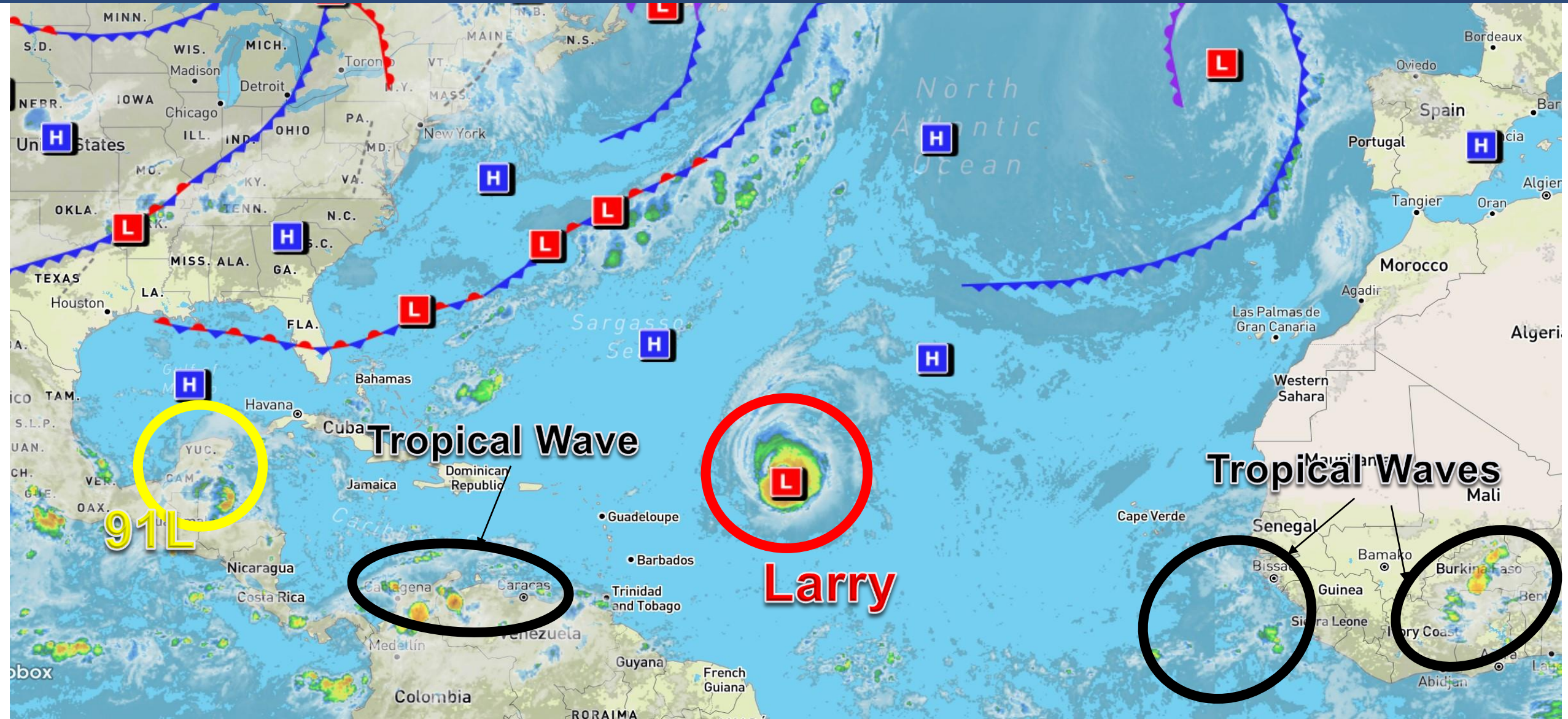
Invest 91L - Caribbean Low (30%)

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





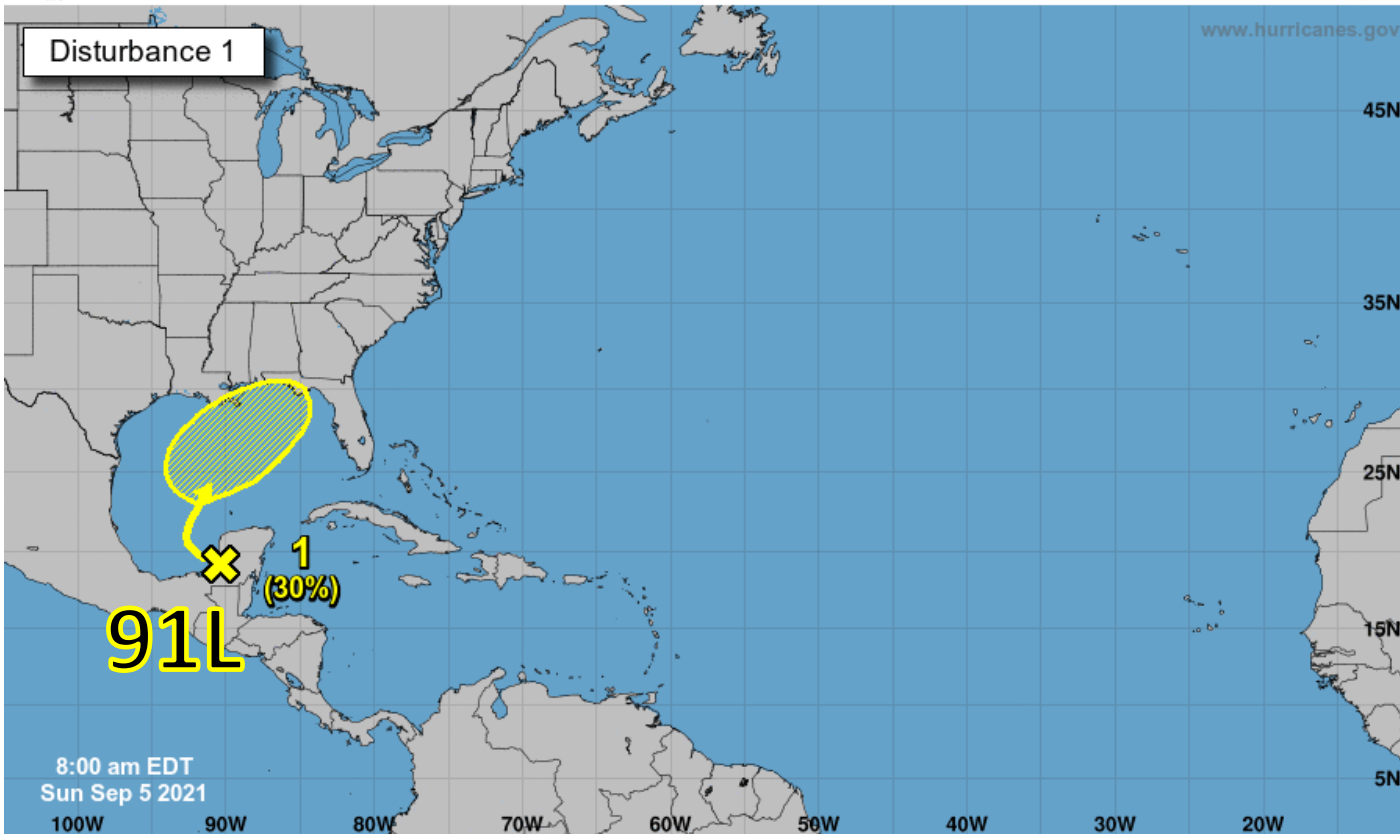
Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#)) – Invest 91L



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



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

Disorganized showers and thunderstorms over portions of Central America and the Yucatan Peninsula are associated with a surface trough and an upper-level disturbance. Locally heavy rains are likely to continue today over that area. The system is forecast to move northwestward over the southwestern Gulf of Mexico later today, then move slowly northward or northeastward over the western or central Gulf of Mexico. Upper-level winds are only expected to be marginally conducive for tropical cyclone formation, but some slow development is possible while the system moves across the Gulf of Mexico through the middle of the week.

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

* Formation chance through 5 days...low...30%

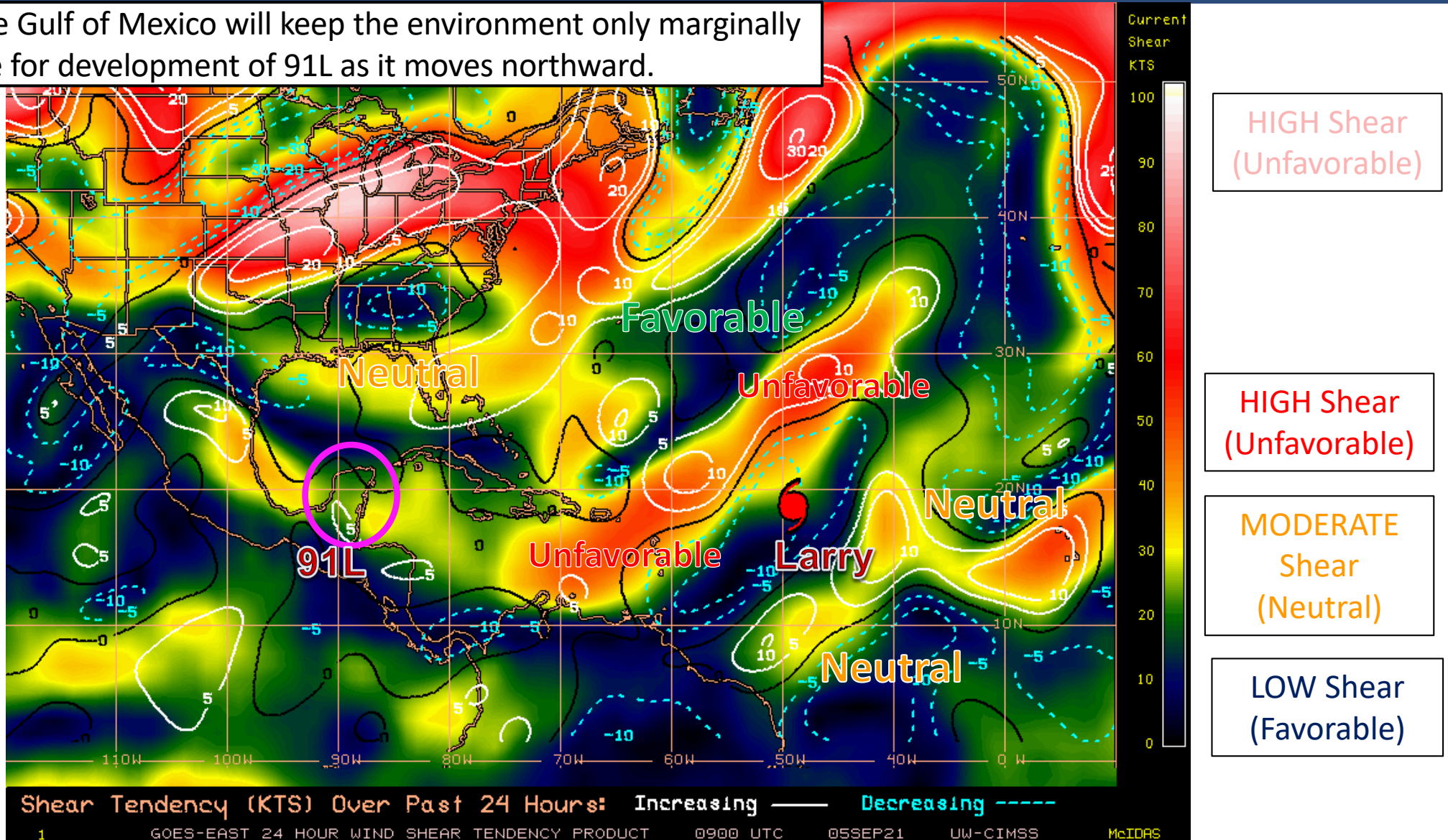


Wind Shear

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).

Wind shear over the Gulf of Mexico will keep the environment only marginally favorable for development of 91L as it moves northward.





Dry Air & Saharan Dust

Is the environment favorable for the system?

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

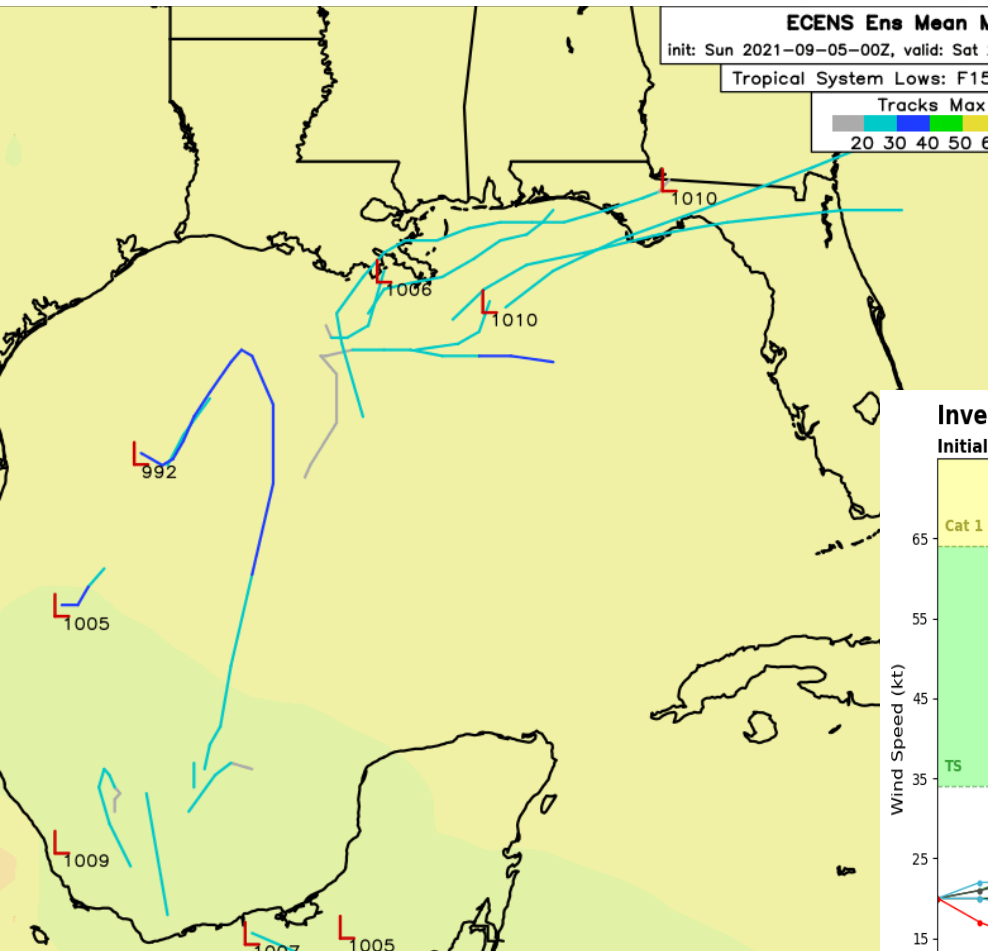
Some dry air over the Gulf of Mexico will also keep the environment only marginally favorable for development as 91L moves northward over the Gulf of Mexico.





Current Satellite Image and Track Guidance

Invest 91L



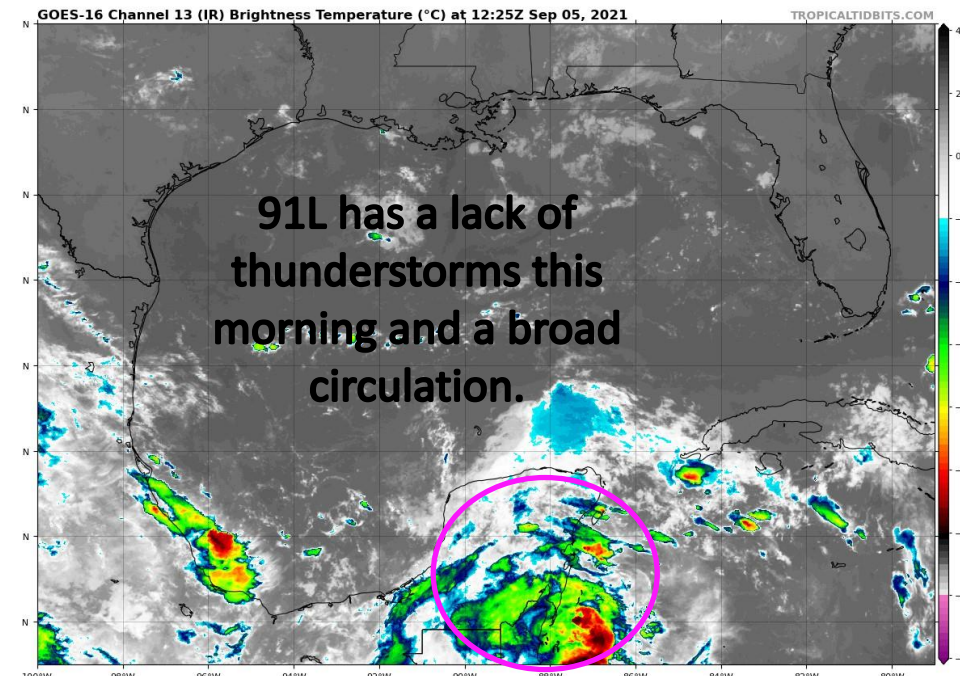
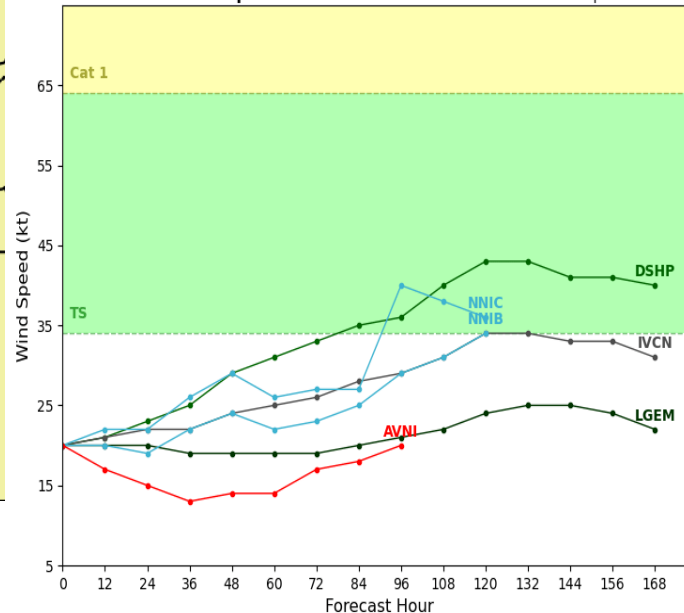
Computer models are in good agreement that little to no development of 91L is forecast to occur within the next 48 hours. Some slow development is possible as it moves northward over the Gulf of Mexico mid-week, but not all models agree that development will occur due to dry air and unfavorable wind shear.

Track forecasts for next week vary greatly since 91L has yet to form an organized center. Within developing tropical systems, models generally struggle to initialize both placement and intensity of the storm. A general track north and northeast towards the Florida Panhandle is most likely, but the system could turn west toward Texas.

Invest 91L Model Intensity Guidance

Initialized at 06z Sep 05 2021

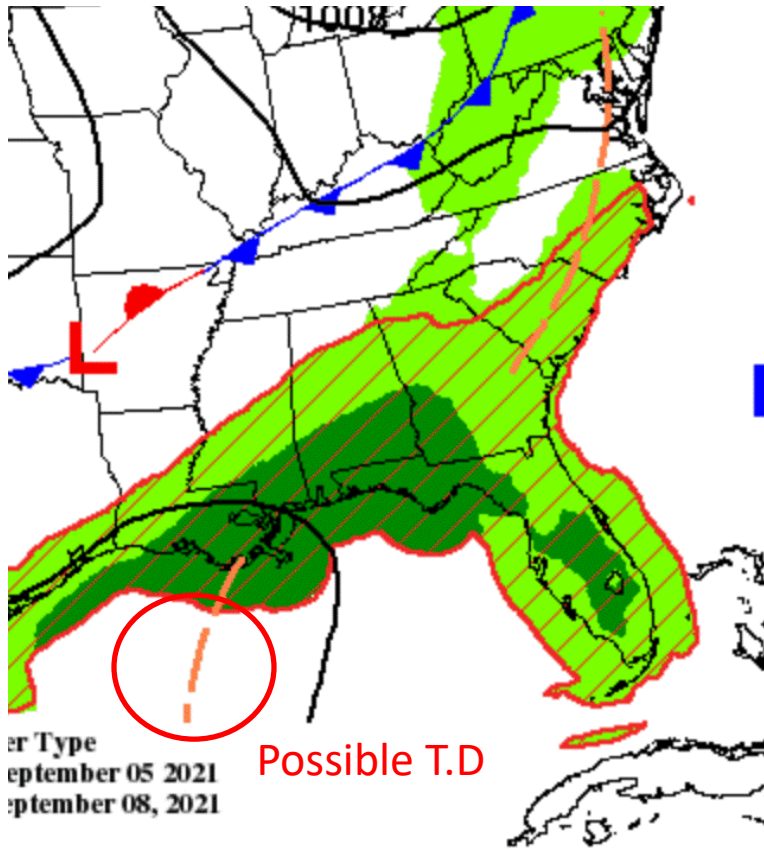
Levi Cowan - tropicaltidbits.com



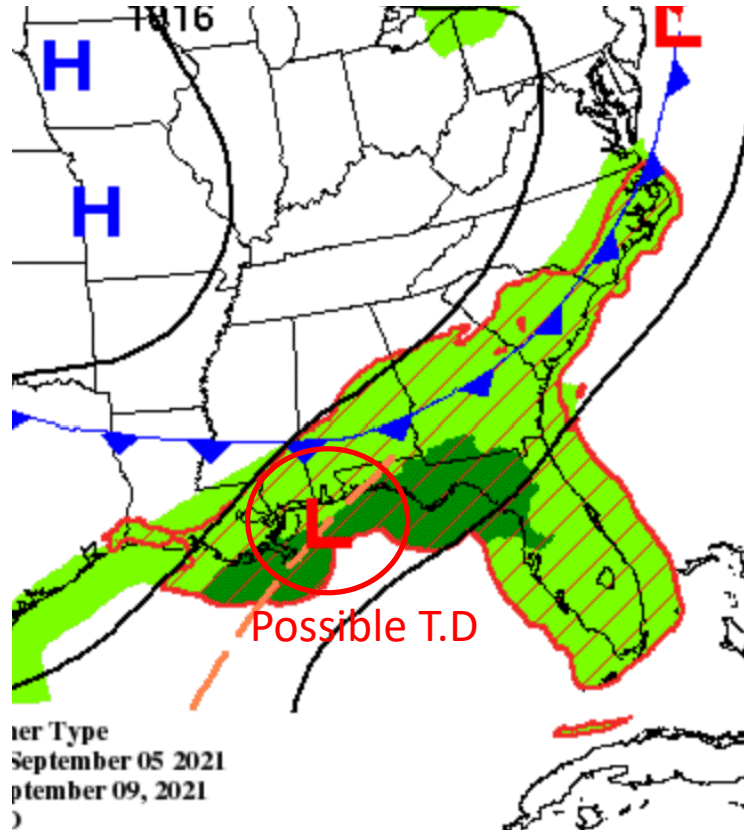


Forecast Mid-Week

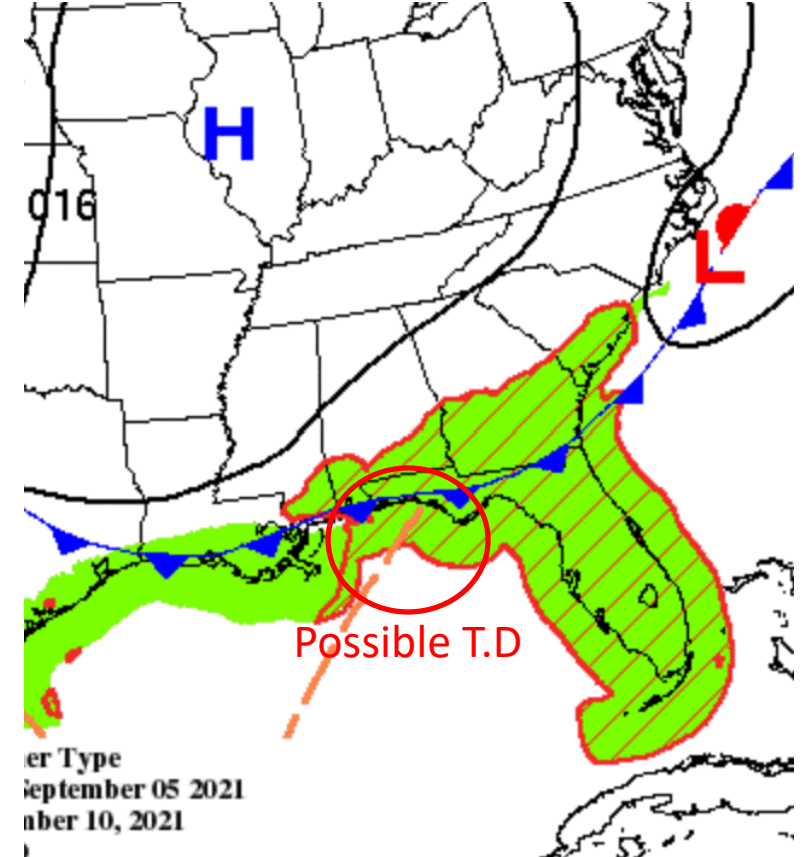
Surface Maps from the Weather Prediction Center



Wednesday



Thursday



Friday

Invest 91L will bring tropical moisture northward regardless if it develops or not. When combined with an approaching cold front, heavy rainfall is forecast for Northwest Florida mid-week.



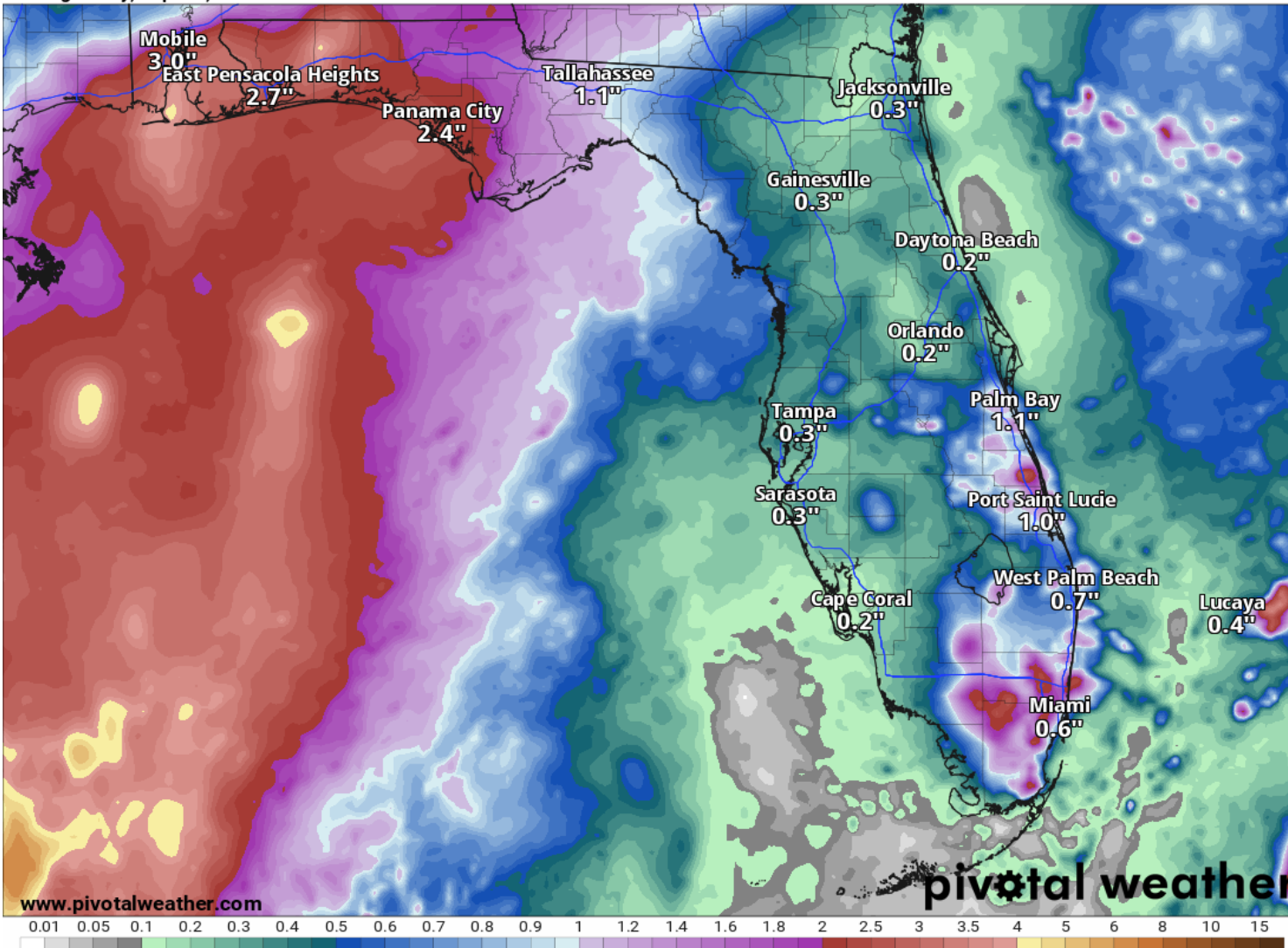
Rainfall Totals Next 5 Days

Ending 8 AM ET Friday

120-Hour Precipitation (in)

Ending Friday, Sep. 10, 2021 at 8 a.m. EDT

Init: Sun 2021-09-05 12z WPC



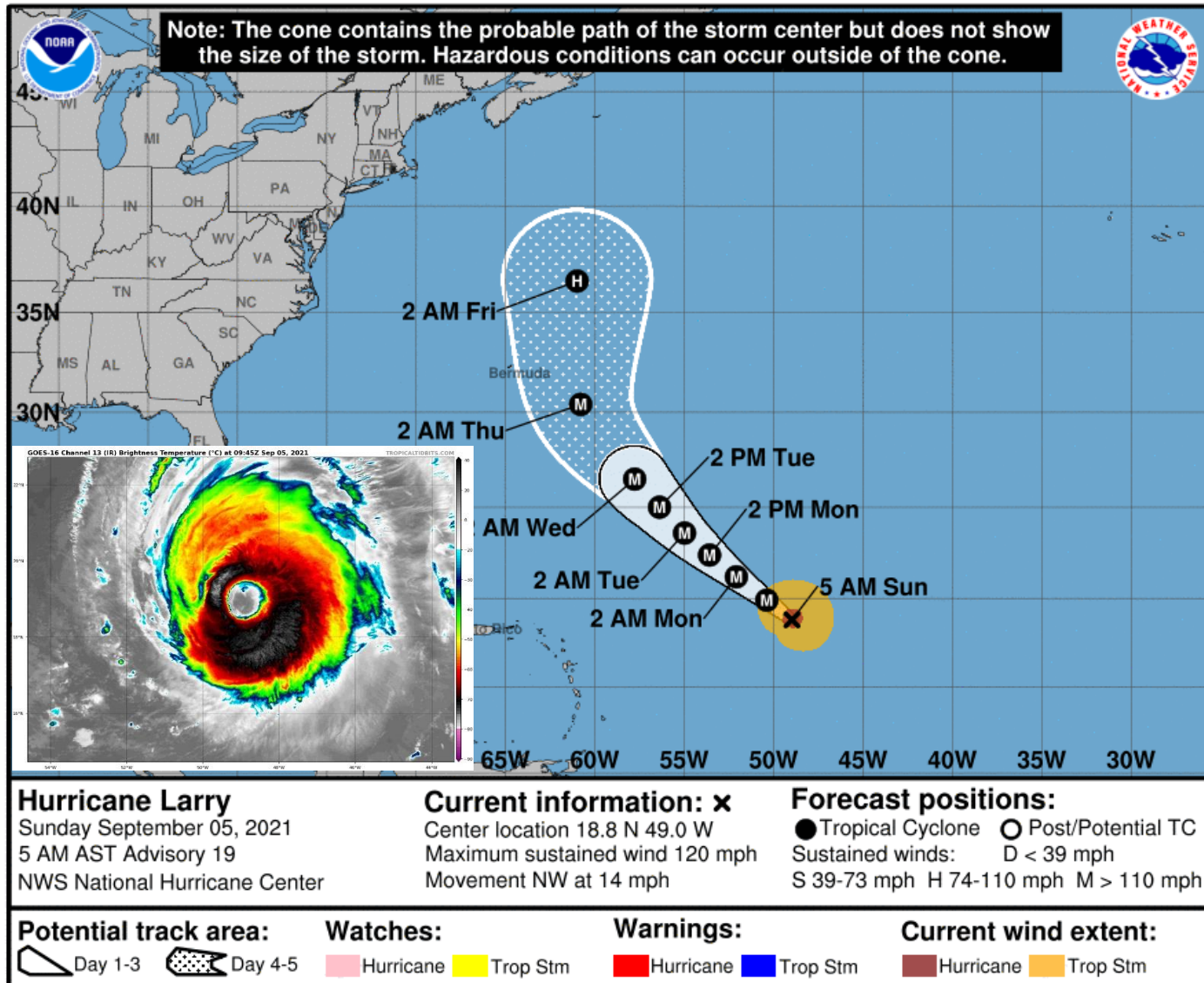
Through the week, a widespread 2-4" of rain is forecast for the Florida Panhandle as tropical moisture from 91L moves into the region and a cold front approaches from the North. **Locally higher totals of 6" are possible.**

Pockets of heavy rainfall are also possible over the next couple of days along the Treasure Coast and in Southeast Florida.



Official Forecast Track

From the National Hurricane Center – Major Hurricane Larry

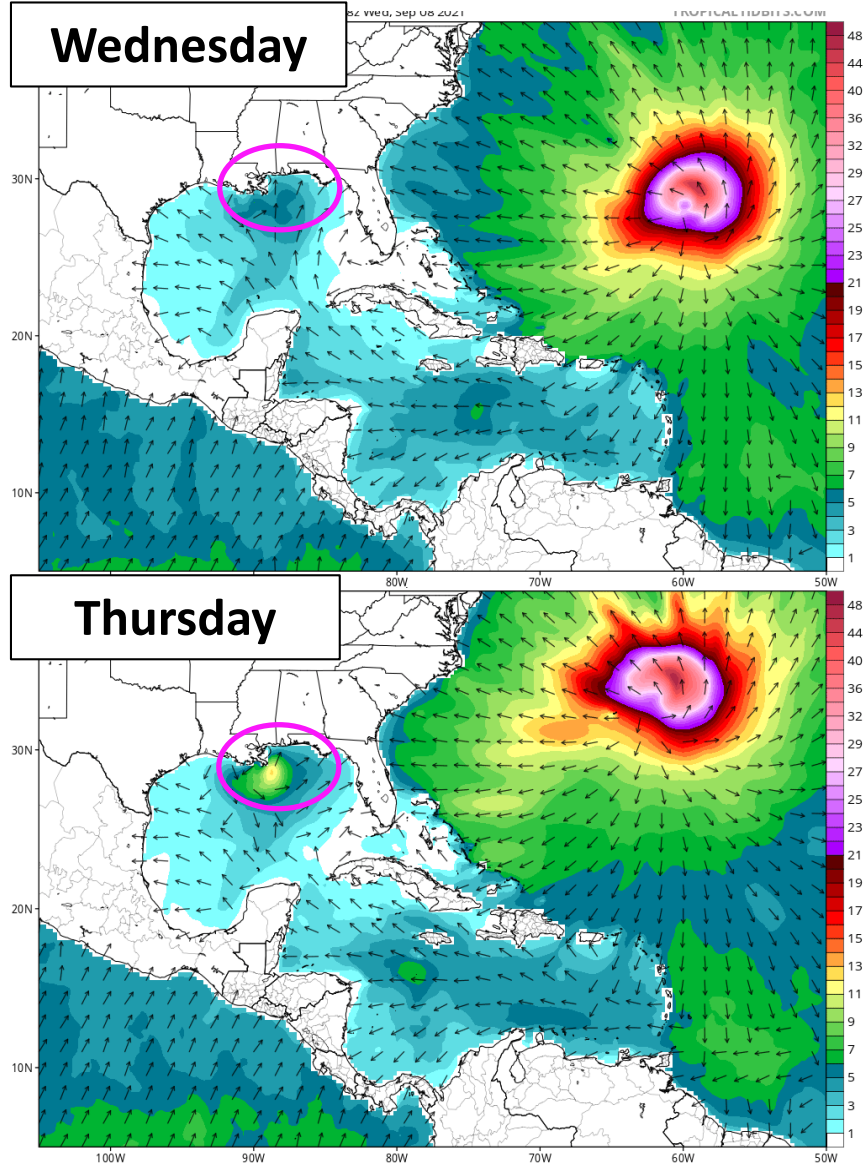


- **Location:** 1,300 miles southeast of Bermuda; about 2,100 miles east-southeast of Miami, FL
- **Maximum sustained winds:** 120 mph (Category 3)
- **Movement:** NW at 14 mph
- **Forecast:** Larry will continue northwest through Wednesday at or near Major Hurricane intensity. As Larry turns northward on Thursday it may begin to weaken as it passes near Bermuda.
- This system poses no direct threat to Florida, but swells from Larry will arrive at Atlantic beaches over the next couple of days.



Forecast Wave Heights

Wednesday and Thursday



Hurricane Larry:

The only apparent threat to Florida will be the potential for ocean swells increasing the rip current risk along the East Coast beginning Monday or Tuesday, with increased waves noticeable by Wednesday and Thursday. The rip current risk is expected to continue through next Saturday (9/11).

Invest 91L:

Regardless of development, portions of the northern Gulf Coast may experience elevated ocean swells and an increased risk of rip currents next week.



Overall Summary

Hurricane Larry:

- At 11:00 am EDT Sunday, the center of Larry was located about 1,300 miles southeast of Bermuda, and moving to the northwest at 14 mph.
- A northwest motion is expected during the next few days, followed by a turn to the north later in the week near Bermuda.
- Maximum sustained winds are at 120 mph, making Larry a Category 3 hurricane.
- Atmospheric and oceanic conditions are supportive of additional strengthening during the next couple of days, and Larry is forecast to remain a major hurricane.

Gulf of Mexico Low (Invest 91L):

- A low pressure disturbance, identified as Invest 91L, continues to produce disorganized shower and thunderstorm activity over portions of the Yucatan Peninsula.
- 91L is forecast to emerge over the southwestern or south-central Gulf of Mexico by tomorrow, followed by a northward to northeastward motion over the central Gulf of Mexico through the middle of this week.
- Upper-level winds and dry air should limit significant development through Monday; however, atmospheric conditions could become marginally conducive for some gradual development Tuesday or Wednesday.
- Thus, the National Hurricane Center is currently giving this system a near 0% chance of development within the next 48 hours, but a 30% (low) chance of development over the next 3-5 days.

Florida Outlook:

- Hurricane Larry poses no direct threat to Florida, but large ocean swells from the hurricane could arrive at Atlantic beaches over the next few days and increase the rip current threat for much of the week.
- Invest 91L in the Gulf of Mexico poses no threat to Florida over the next 48 hours *but should be monitored over the next few days*. Regardless of development, increased rain chances are expected across the Panhandle mid-week along with an increased risk of rip currents.

The next briefing packet will be issued Monday morning. For the latest information, please visit the National Hurricane Center website at

www.hurricanes.gov.



TROPICAL UPDATE



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