



Tropical Update



2:00 PM EDT

Thursday, July 3, 2025

Monitoring Southeast U.S. Coastline for Potential Tropical Development into the Weekend (60%);

Active & Unsettled Weather Pattern Continues for the Sunshine State Into Early Next Week

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.



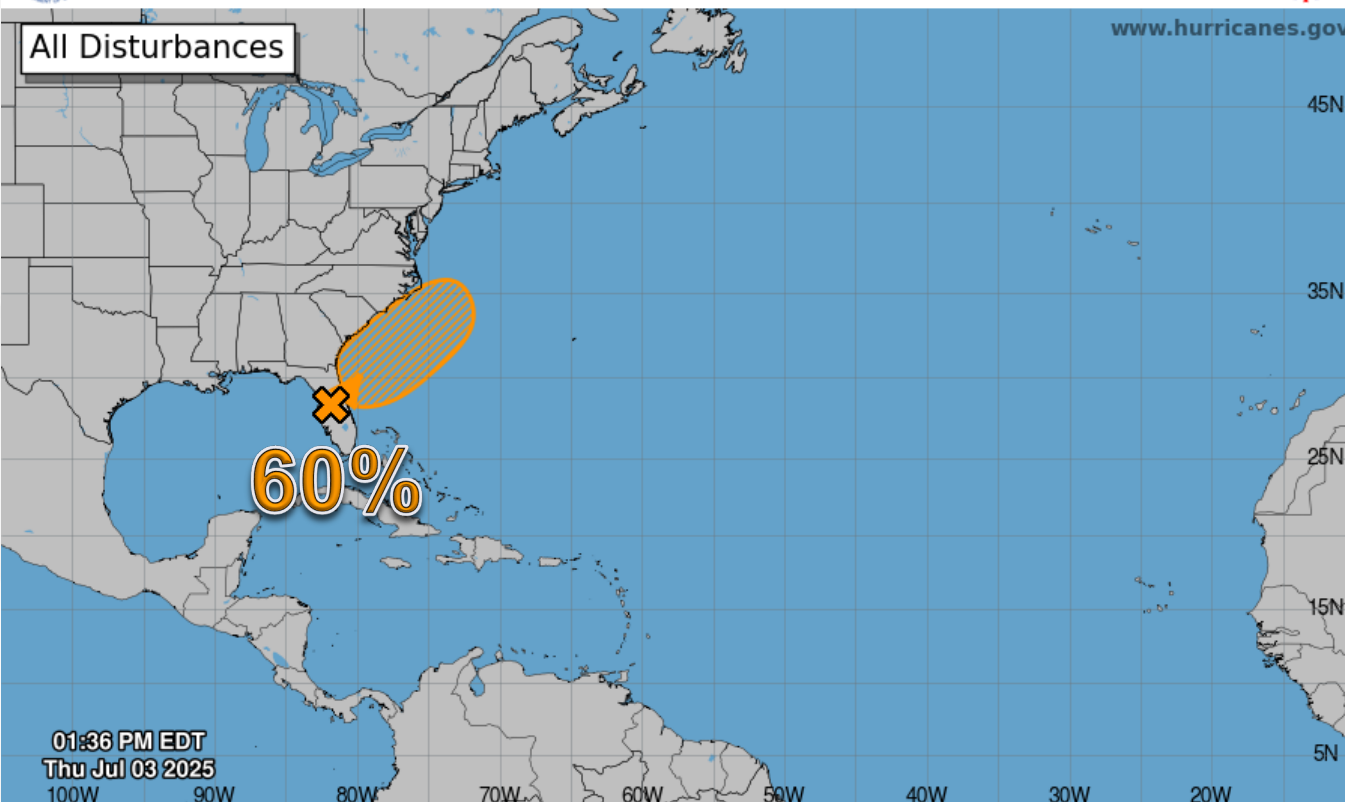
Tropical Weather Outlook

Disturbance 1 – Near the Southeastern U.S.



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

An area of low pressure is forecast to develop along a weakening frontal boundary near Florida or the Atlantic Coast of the southeastern U.S. on Friday or Saturday. Environmental conditions appear only marginally conducive for some slow development, but a tropical or subtropical depression could form in this region over the weekend or early next week while the system drifts northward or northeastward.

*Formation chance through 48 hours...**low...30%**.

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

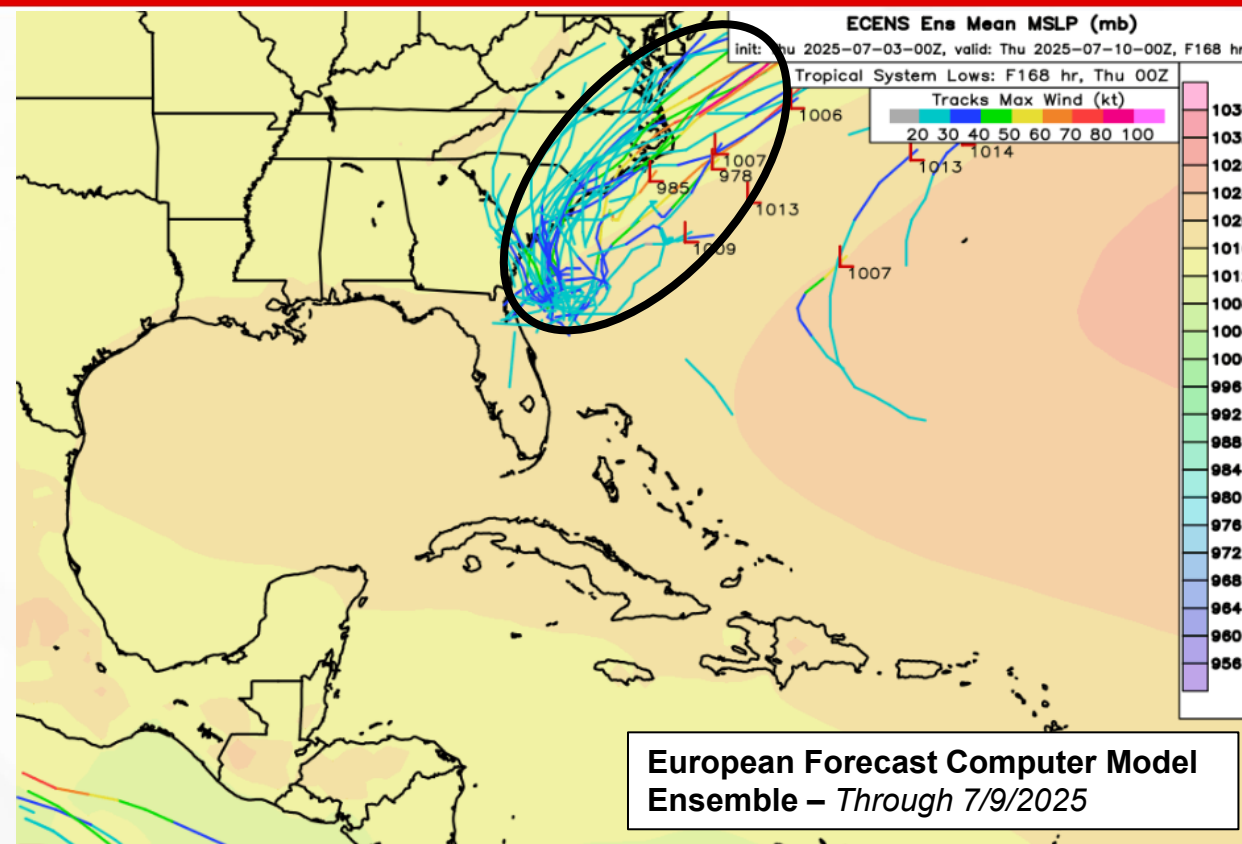
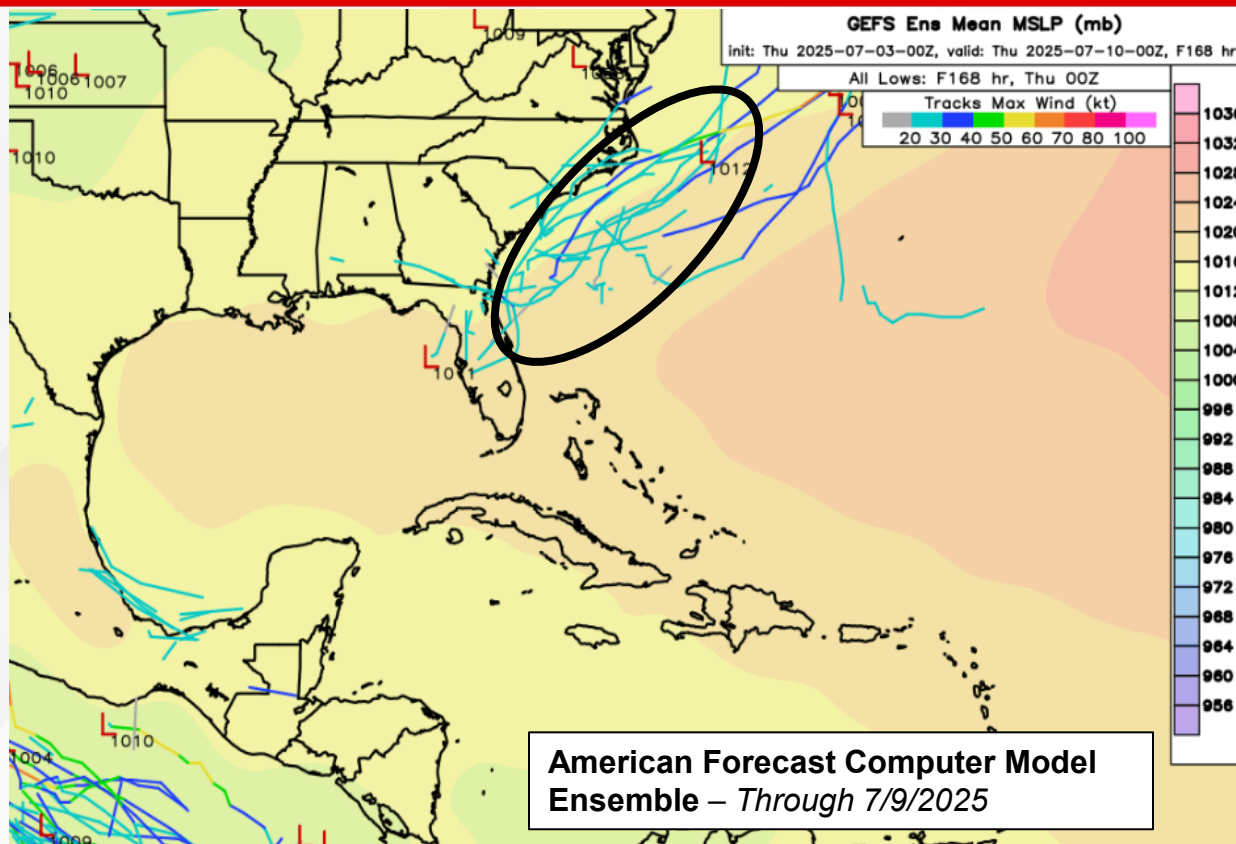
Regardless of development, increased rain chances and concerns for flooding will be possible through the next few days, especially along the West-Central Florida Coast.

An Air Force Reserve Hurricane Hunter aircraft is scheduled to investigate the system on Friday, if necessary.



Computer Model Ensembles

Atlantic Basin – Next 5 to 7 Days



Computer forecast models have come into **better agreement** this morning that a broad and weak area of low pressure will continue to evolve off coastal Georgia and the Carolinas this weekend. Both the American and European computer models keep the overall system weak and limited in development as it gradually drifts north to northeastward through the early part of next week. Further up the Eastern Seaboard Sunday into Monday, this disturbance will be pulled quicker northeastward away from the U.S. coastline.

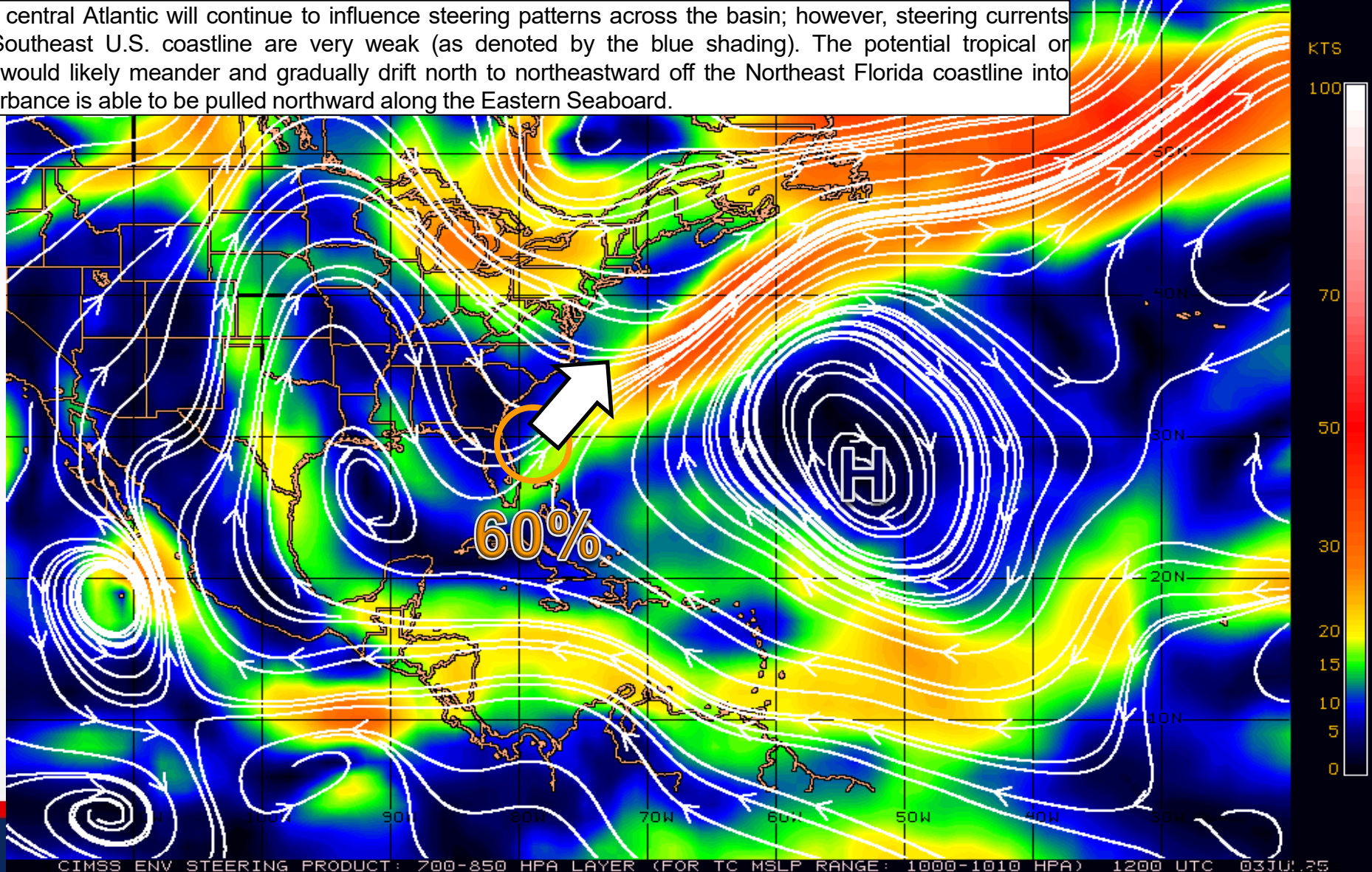


Steering Currents

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 central Atlantic will continue to influence steering patterns across the basin; however, steering currents along the immediate Southeast U.S. coastline are very weak (as denoted by the blue shading). The potential tropical or subtropical depression would likely meander and gradually drift north to northeastward off the Northeast Florida coastline into early next until the disturbance is able to be pulled northward along the Eastern Seaboard.



Fast Moving Storm

Fast Moving Storm

Typical Moving Storm

Slow Moving Storm

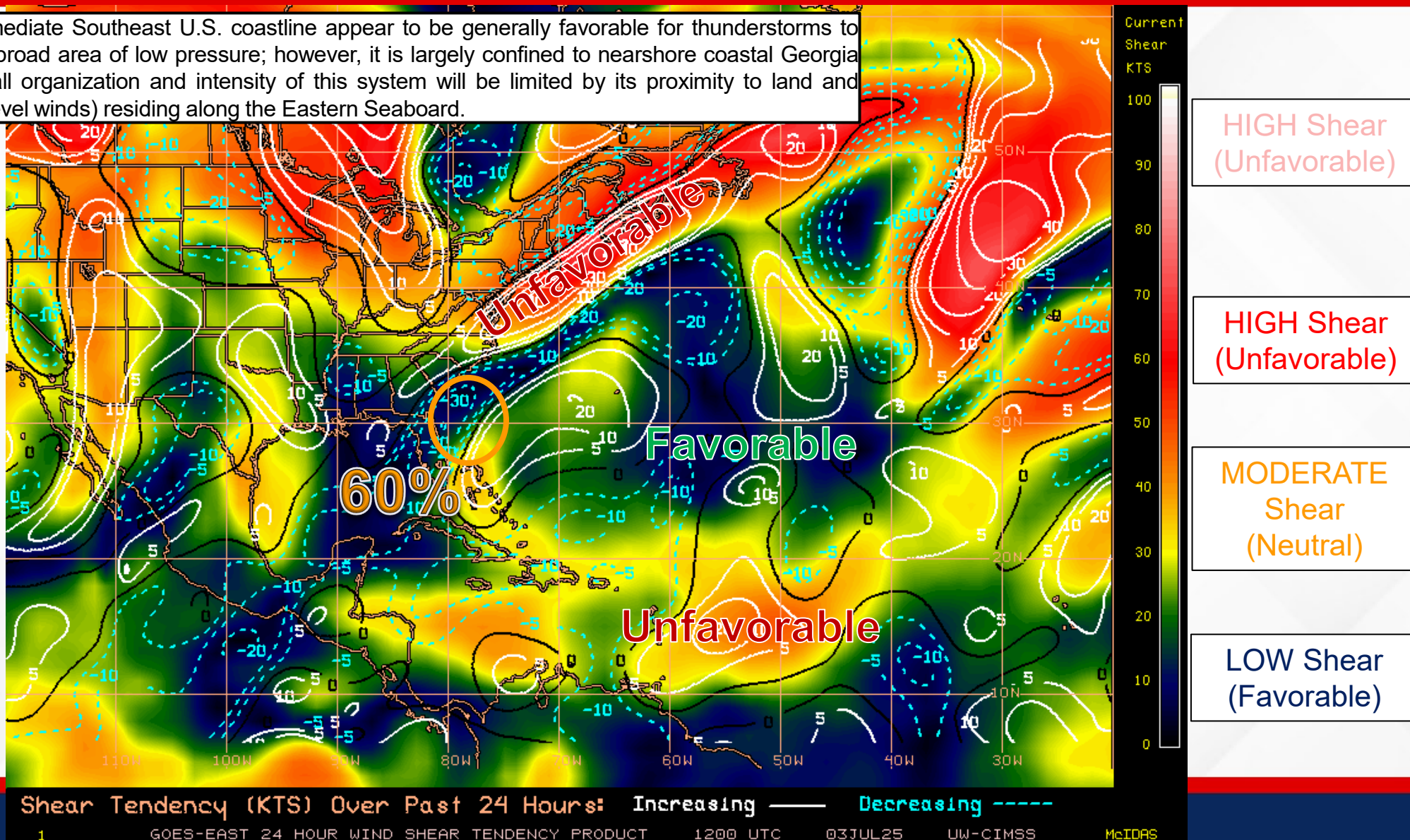


Wind Shear

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).

Upper-level winds off the immediate Southeast U.S. coastline appear to be generally favorable for thunderstorms to gradually organize under the broad area of low pressure; however, it is largely confined to nearshore coastal Georgia and the Carolinas. The overall organization and intensity of this system will be limited by its proximity to land and unfavorable (stronger upper-level winds) residing along the Eastern Seaboard.



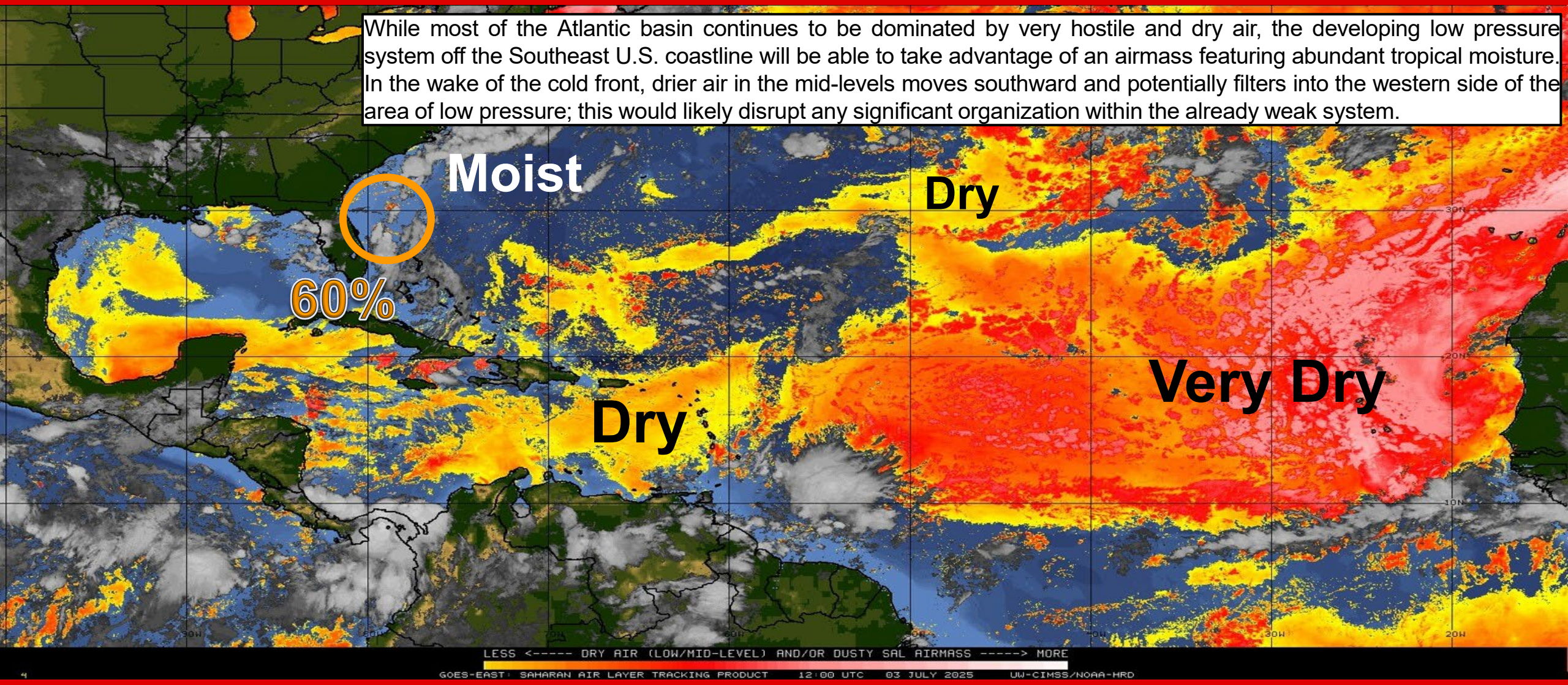


Dry Air & Saharan Dust

Is the environment favorable for the system?

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

While most of the Atlantic basin continues to be dominated by very hostile and dry air, the developing low pressure system off the Southeast U.S. coastline will be able to take advantage of an airmass featuring abundant tropical moisture. In the wake of the cold front, drier air in the mid-levels moves southward and potentially filters into the western side of the area of low pressure; this would likely disrupt any significant organization within the already weak system.





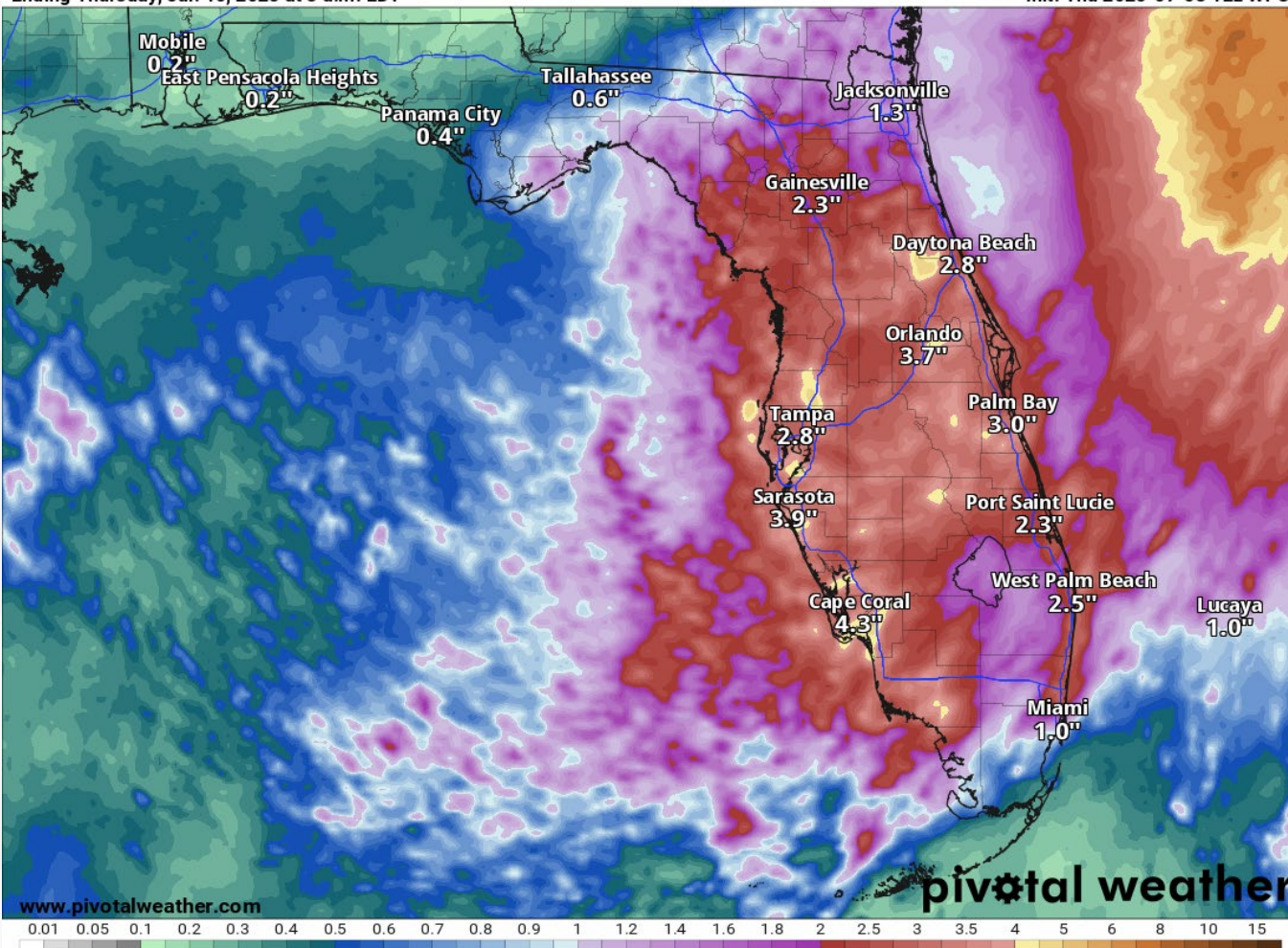
Forecast Rainfall Totals – 7 Days

From the Weather Prediction Center (WPC)

7-Day Precipitation (in)

Ending Thursday, Jul. 10, 2025 at 8 a.m. EDT

Init: Thu 2025-07-03 12z WPC



The wet and active weather pattern across Florida will continue regardless of subtropical or tropical development through the next 3-5 days.

Scattered to numerous showers and thunderstorms will develop each day, and lead to multiple rounds of heavy downpours throughout the Florida Peninsula.

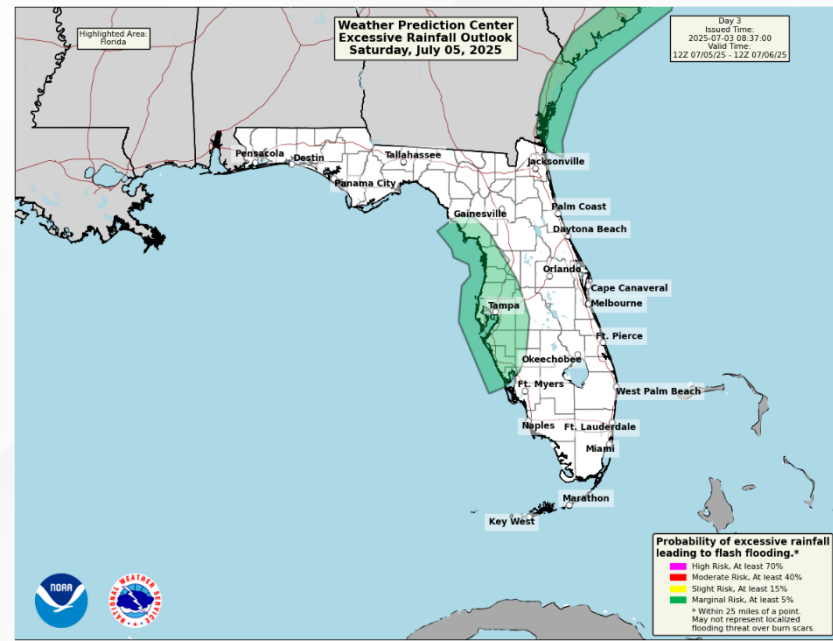
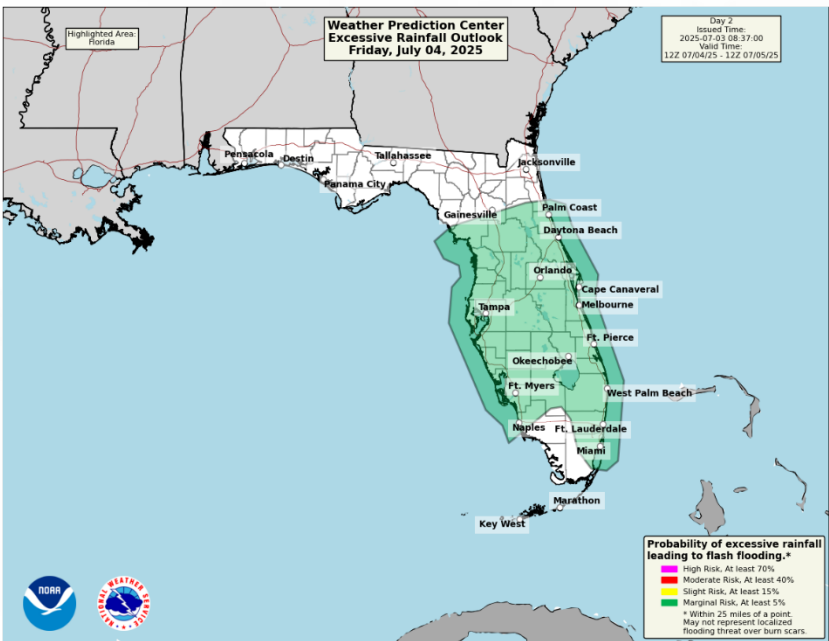
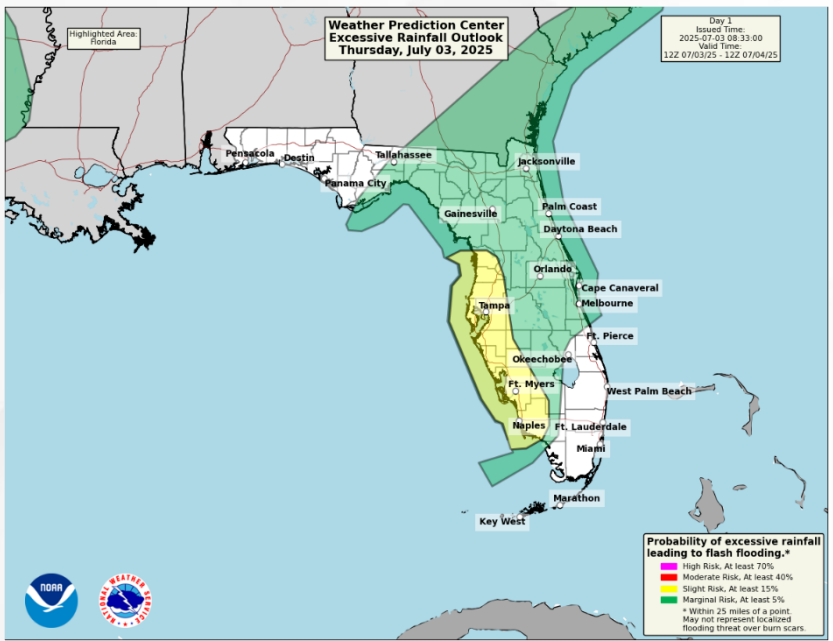
Soils have become increasingly saturated through the week across the Sunshine State; an earlier onset to **flash flooding and ponding water** cannot be ruled out, especially over poor drainage and low/lying areas along the West Coast.

Widespread rainfall totals of 2-5" can be expected throughout Northeast Florida and the Peninsula during the next 7 days. Locally higher totals upwards of 6-8" cannot be ruled out for locations that receive the heaviest thunderstorm activity.



Flash Flood Outlook

From the Weather Prediction Center (WPC)



The Weather Prediction Center (WPC) is outlooking a **Slight Risk (level 2 of 4) for Flash Flooding** along the coast of West Florida today for possible flash flooding over urban and low-lying/poor drainage areas, especially locations that have experienced consecutive days of repeated downpours. A **Marginal Risk (level 1 of 4)** extends across much of the state today, shifting throughout the Florida Peninsula on Friday. Lingering moisture and onshore flow will continue to bring repeated rounds of heavy rain and thunderstorm activity along the West-Central Florida coastline into Saturday (**Marginal Risk**).

MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
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.



Summary

FOUO – For Government Official Use Only

Near Southeastern U.S. Coastline:

- An area of low pressure is forecast to develop along a weakening frontal boundary near Florida or the Atlantic Coast of the southeastern U.S. on Friday or Saturday.
- Environmental conditions appear only marginally conducive for some slow development, but a tropical or subtropical depression could form in this region over the weekend or early next week while the system drifts northward or northeastward.
- There is a **low (30%) chance** for development over the next 48 hours and a **medium (60%) chance** for development over the next 7 days.
- Regardless of development, increased rain chances and concerns for flooding will be possible through the next few days, especially along the West-Central Florida Coast.
- An Air Force Reserve Hurricane Hunter aircraft is scheduled to investigate the system on Friday, if necessary.

Florida Outlook:

- The wet and active weather pattern across Florida will continue, regardless of subtropical or tropical development through the next 3-5 days.
- Soils have become increasingly saturated this week; an earlier onset to **flash flooding and ponding water** cannot be ruled out, especially over poor drainage and low/lying areas.
- Widespread rainfall totals of 2-5" can be expected throughout Northeast Florida and the Peninsula during the next 7 days; locally higher amounts of 6-8" possible.
- The Weather Prediction Center (WPC) is outlooking a **Slight Risk (level 2 of 4) for Flash Flooding** along the coast of West Florida today, with nearly a statewide **Marginal Risk (level 1 of 4)** continuing into the weekend.
- Marine and beach conditions expected to deteriorate along the Northeast Florida Coast this weekend, with elevated surf and an increased rip current risk.
- The next name on the list is **Chantal** (*shahn-TAHL*).

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



Tropical Update

FOUO – For Government Official Use Only



Created by:

Caitlyn Gillespie, Deputy State Meteorologist

Caitlyn.Gillespie@em.myflorida.com

State Meteorological Support Unit

Florida Division of Emergency Management

Users wishing to subscribe (approval pending) to this distribution list, register at:

https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_Tropics.

Other reports available for subscription are available at:

<https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true>