



# Tropical Update



6:00 PM EDT

Monday, August 5, 2024

**Tropical Storm Debby is Now Inland Near the Florida/Georgia Border; Major Flood Threat Continues for North Florida, With Rivers Now Rising into Flood Stage**

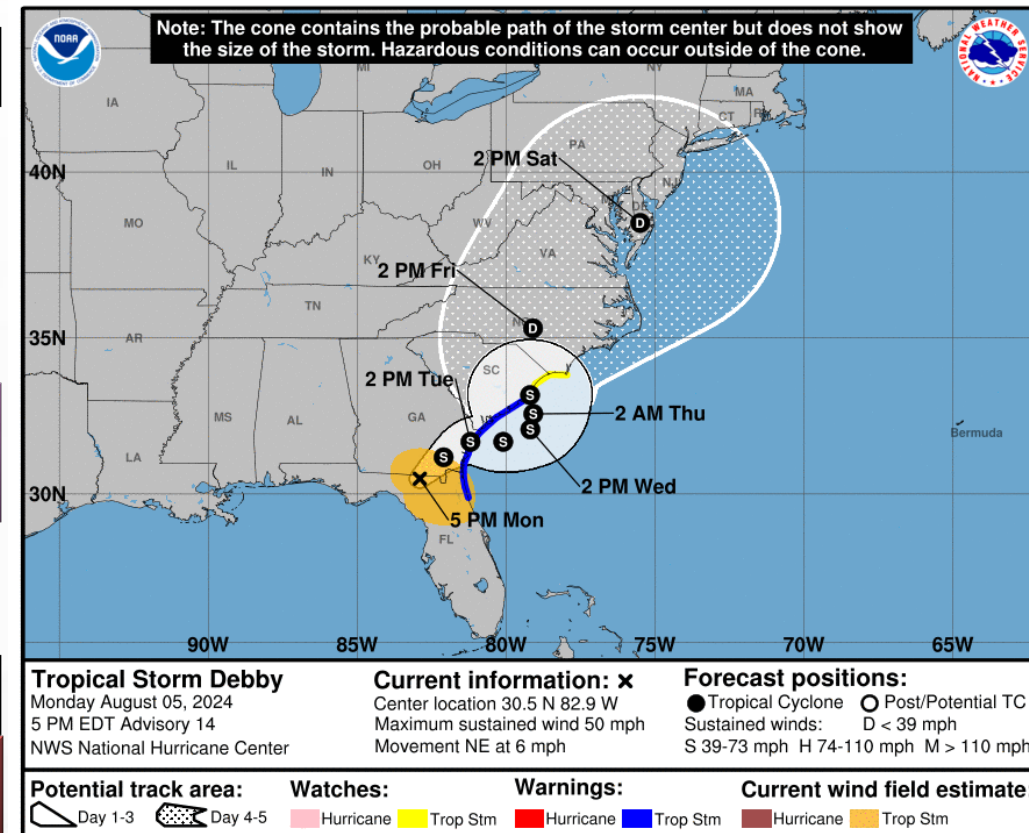
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an 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).



# Tropical Storm Debby

5:00 PM EDT Monday: Florida Threats & Changes Since Last Packet

	MINIMAL	Low	MODERATE	HIGH	EXTREME
WINDS					
STORM SURGE					
FLASH FLOODING					
TORNADOES					
	Low	MODERATE	HIGH		
RIP CURRENTS					



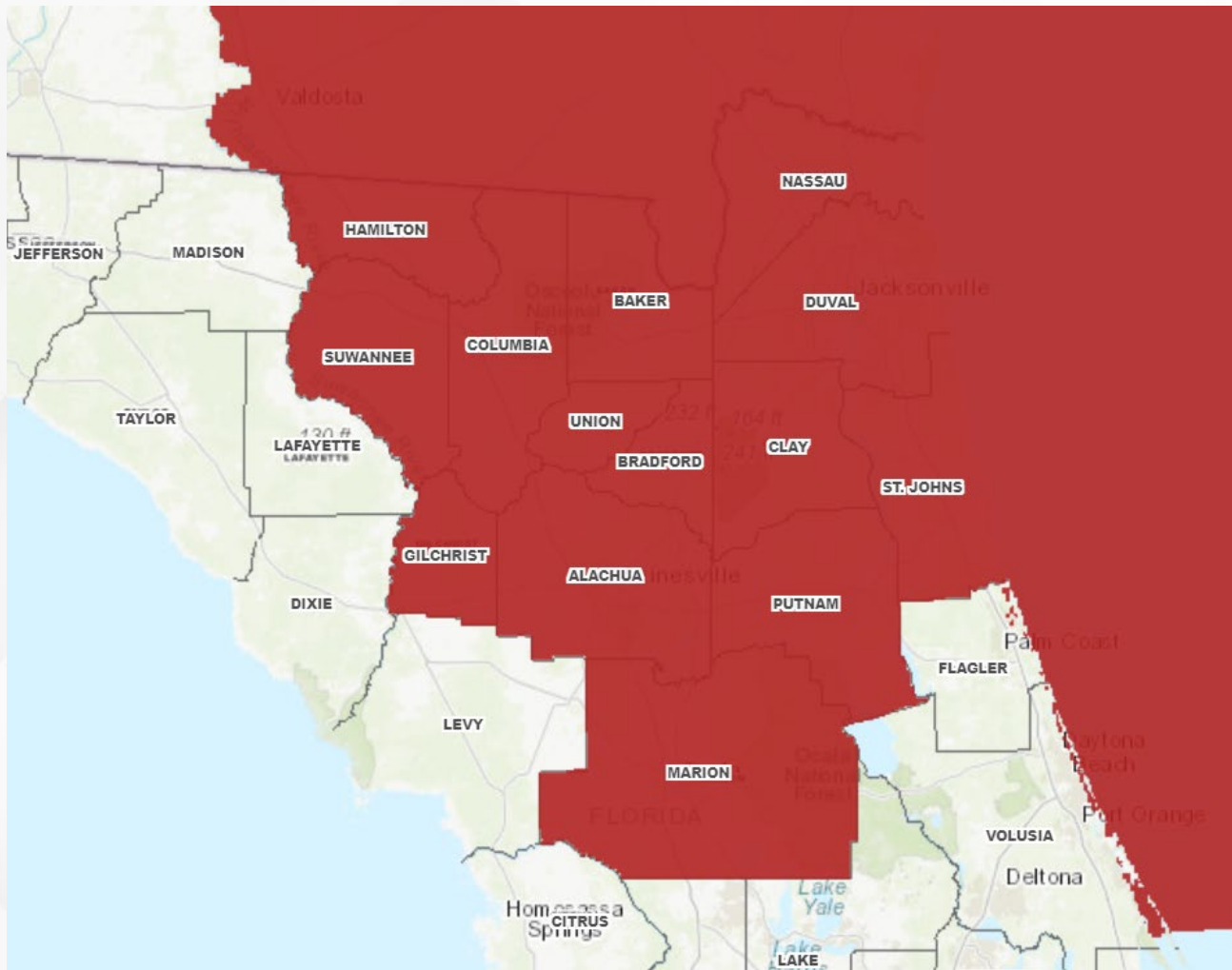
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**Overview/Recent Changes:** As of 2:00 PM EDT, Debby has weakened into a tropical storm. Currently, Debby is located about 30 miles southeast of Valdosta, Georgia and is moving northeastward at 6 mph. A turn toward the east is expected on Tuesday, followed by a turn to the north at a slow forward speed on Wednesday. Maximum sustained winds have decreased to near 50 mph; however, tropical storm-force winds still extend outward up to 140 miles from the center. Storm Surge Warnings along the Florida Gulf Coast have been discontinued; Tropical Storm Warnings remain in effect for portions of the Suwannee River Valley into Northeast Florida.



# Current Wind Watches/Warnings

Tropical Storm Debby – As of 5:00 PM EDT



- **Tropical Storm Warnings:**

- *Hamilton, Suwannee, Levy, Marion, Alachua, Gilchrist, Columbia, Union, Baker, Nassau, Duval, Bradford, Clay, St. Johns, and Putnam Counties.*



# Threats & Impacts

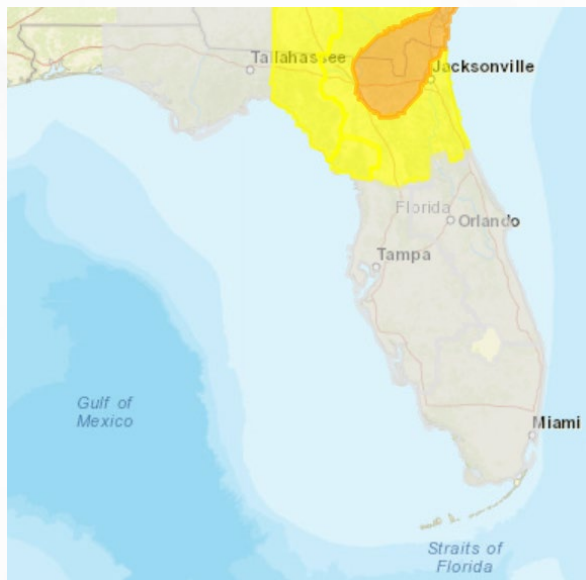
## From the National Weather Service

### Storm Surge



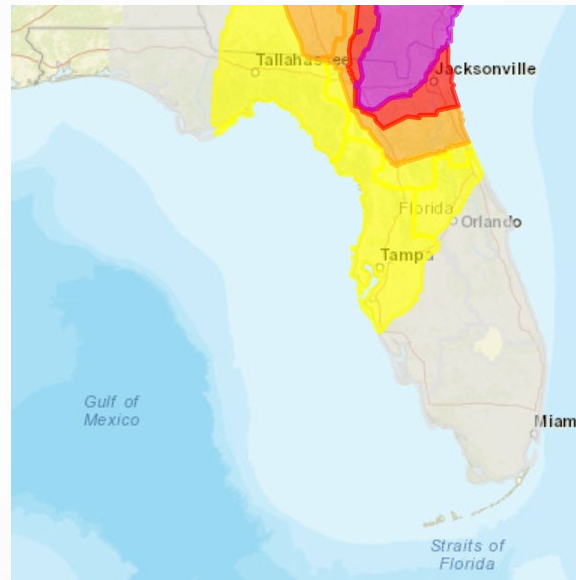
- Widespread deep inundation, with storm surge flooding greatly accentuated by powerful battering waves. Structural damage to buildings, with many washing away. Damage greatly compounded from considerable floating debris. Locations may be uninhabitable for an extended period.
- Near-shore escape routes and secondary roads washed out or severely flooded. Flood control systems and barriers may become stressed.
- Extreme beach erosion. New shoreline cuts possible.
- Massive damage to marinas, docks, boardwalks, and piers. Numerous small craft broken away from moorings with many lifted onshore and stranded.

### Wind



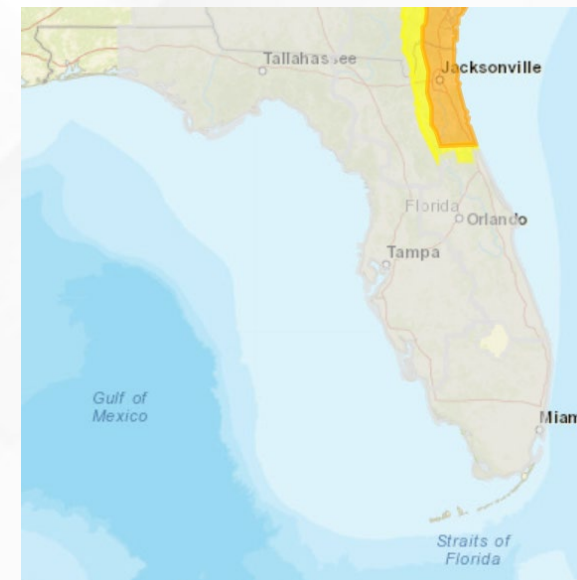
- Considerable roof damage to sturdy buildings, with some having window, door, and garage door failures leading to structural damage. Mobile homes severely damaged, with some destroyed. Damage accentuated by airborne projectiles. Locations may be uninhabitable for weeks.
- Many large trees snapped or uprooted along with fences and roadway signs blown over.
- Some roads impassable from large debris, and more within urban or heavily wooded places. Several bridges, causeways, and access routes impassable.
- Large areas with power and communications outages.

### Flooding



- Extreme rainfall flooding may prompt numerous evacuations and rescues.
- Rivers and tributaries may overwhelmingly overflow their banks in many places with deep moving water. Small streams, creeks, and ditches may become raging rivers. Flood control systems and barriers may become stressed.
- Flood waters can enter numerous structures within multiple communities, some structures becoming uninhabitable or washed away. Numerous places where flood waters may cover escape routes. Streets and parking lots become rivers of raging water with underpasses submerged. Driving conditions become very dangerous. Numerous road and bridge closures with some weakened or washed out.

### Tornadoes



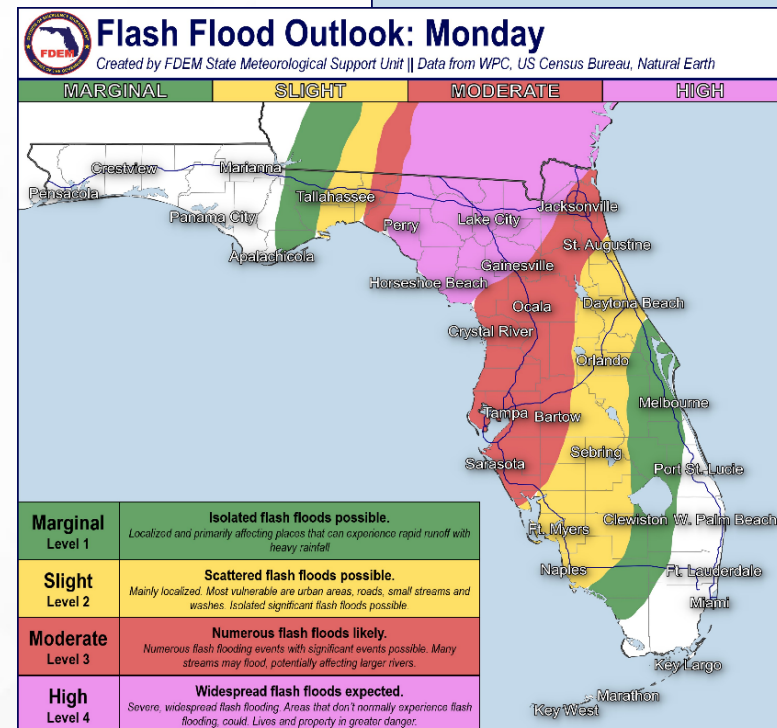
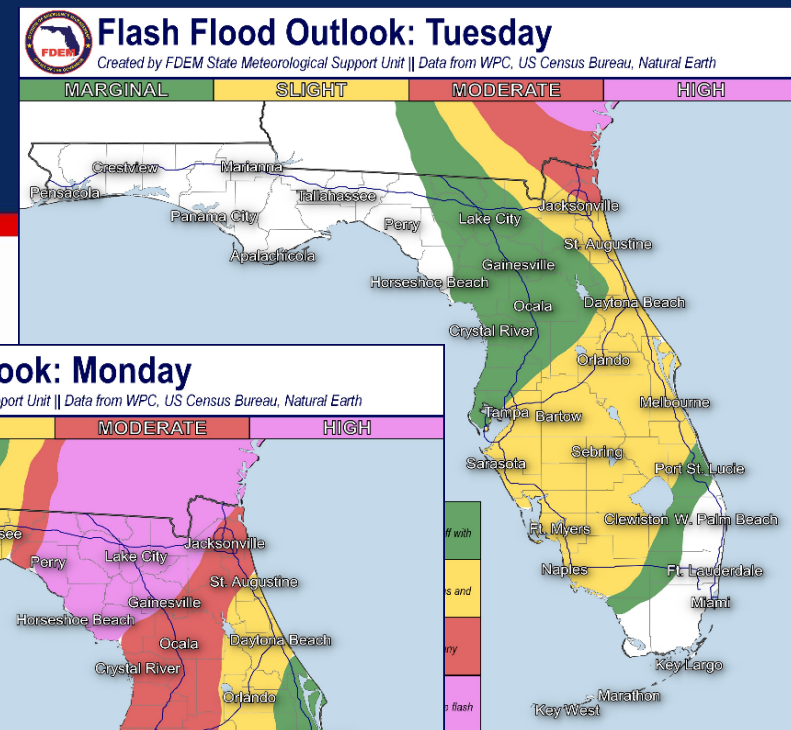
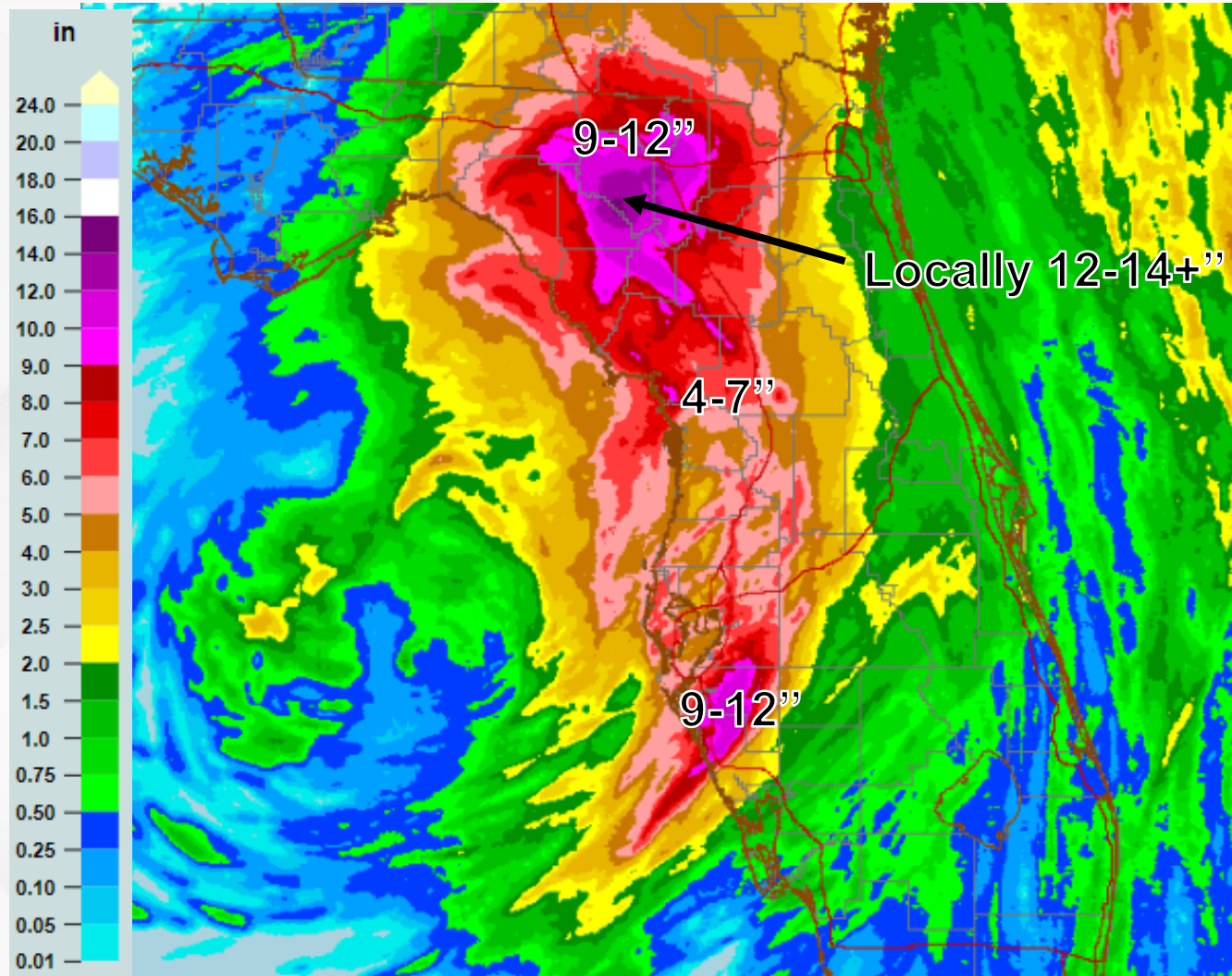
- The occurrence of scattered tornadoes can hinder the execution of emergency plans during tropical events.
- Several places may experience tornado damage with a few spots of considerable damage, power loss, and communications failures.
- Locations could realize roofs torn off frame houses, mobile homes demolished, boxcars overturned, large trees snapped or uprooted, vehicles tumbled, and small boats tossed about. Dangerous projectiles can add to the toll.





# Observed Rainfall Totals

## Past 24 Hours



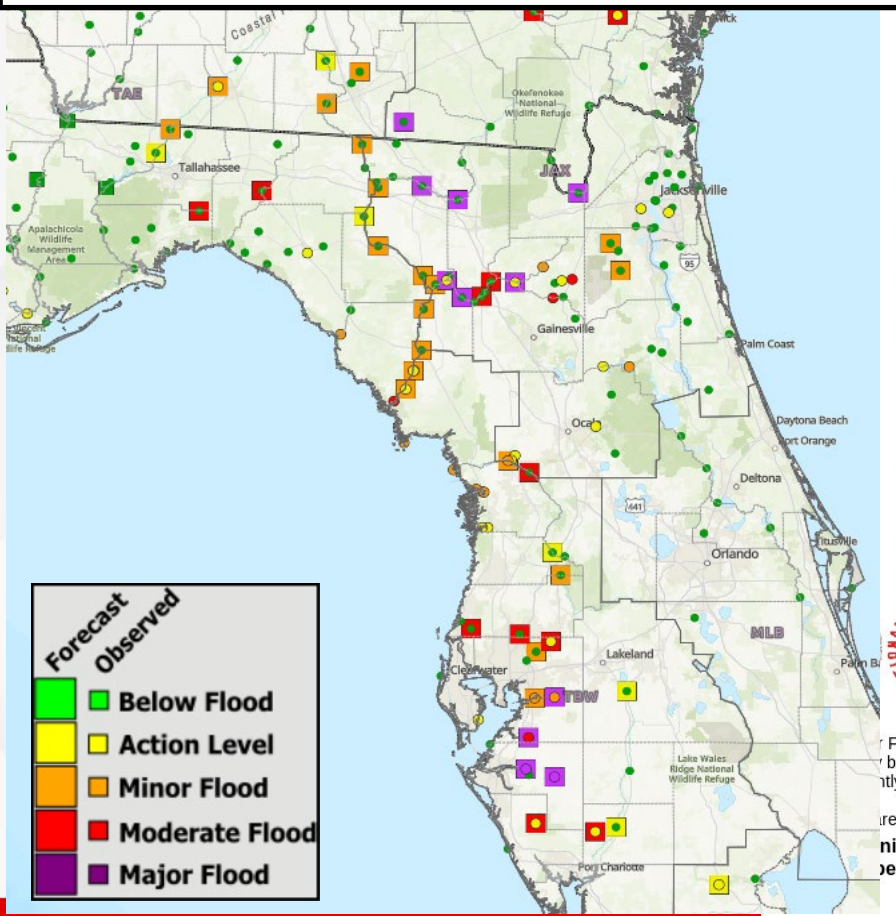
The Weather Prediction Center (WPC) is outlooking a rare **High Risk (level 4 of 4)** for **Flash Flooding** across the eastern Big Bend, Suwannee Valley, and portions of Northeast Florida today with a **Slight to Moderate Risk (level 2-3 of 4)** expanding across the Big Bend and along the northern Peninsula southward to the I-4 Corridor and extending into Southwest Florida as Hurricane Debby is forecast to move inland along the Florida Big Bend, nearly stalling and bringing numerous rounds of heavy rainfall. A **Slight Risk** is maintained across the Northern and Central Peninsula, extending into southwest Florida Tuesday with a **Moderate Risk** along far Northeastern Florida as Debby moves northeastward and eastward across North Florida towards southeast Georgia.



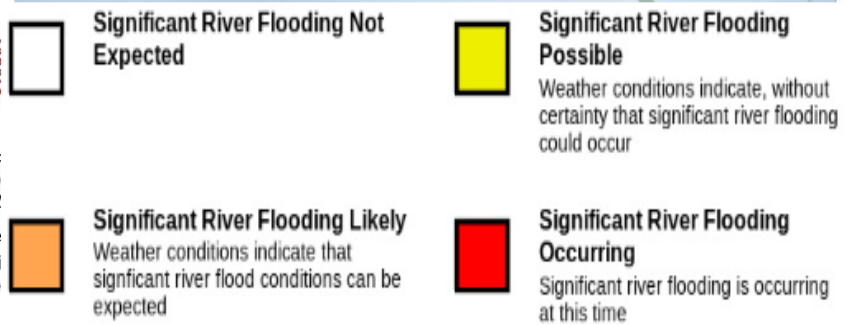
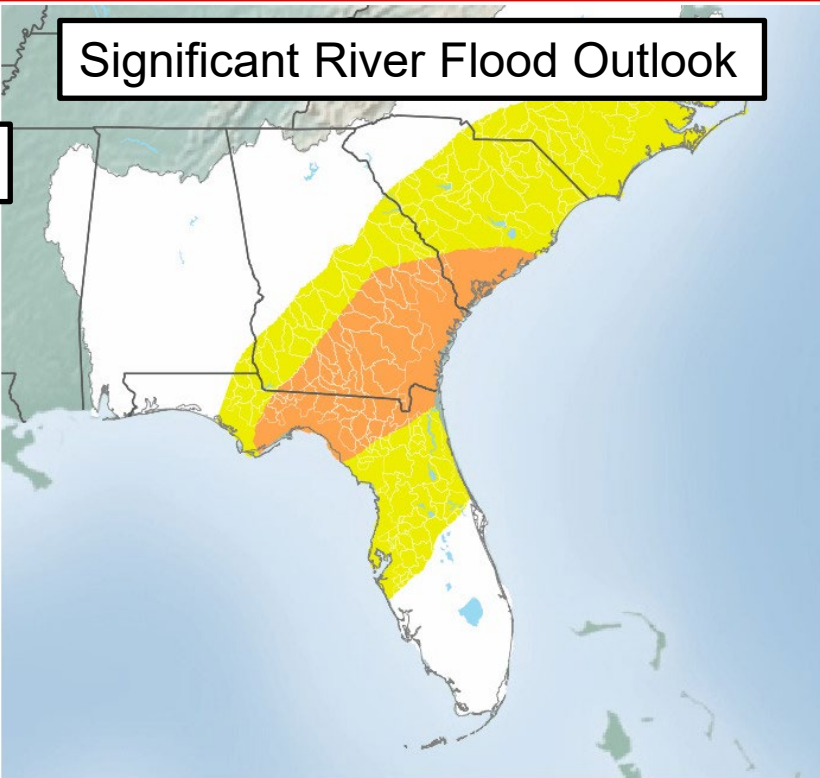
# Riverine Flooding

Chance of River Flooding Based on Range of Forecast Rainfall

Current River Observations and Forecast



Significant River Flood Outlook



**River Flood Warnings** have been issued across numerous North and West Florida Rivers this afternoon. Numerous rivers have reached or are forecast to reach **moderate to major flood stage** with several others forecast to reach **minor flood stage**. Additional River Flood Warnings will be possible over the next several days depending on rainfall across portions of the state, as well as portions of southern Georgia. Slight changes in the location of the highest rainfall totals can impact riverine forecasts as the rainfall event unfolds. Riverine forecasts will likely change in peak height in future updates as the full envelope of rainfall enters the forecast period.





# River Flood Warnings

From the National Weather Service

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River Guage	County(ies) Affected	Current Level	Crest Level	Record Level	Status	Crest Date	Expires Day
<a href="#">Alafia River at Lithia Pinecrest Road at Lithia</a>	Hillsborough	Minor: 15.60 ft	Major: 19.00 ft	28.5 ft	Rising	6-Aug	Until Further Notice
<a href="#">Alafia River at Riverview near US 301</a>	Hillsborough	Minor: 4.37 ft	Minor	6.6 ft	Rising	5-Aug	2000 EDT 5-Aug
<a href="#">Anclote River near Elfers at Little Road</a>	Pasco	Below: 16.47 ft	Moderate: 23.30 ft	27.7 ft	Rising	7-Aug	Until Further Notice
<a href="#">Aucilla River at Lamont</a>	Madison, Jefferson, Taylor	Below: 50.62 ft	Moderate: 65.50 ft	58.8 ft	Rising	8-Aug	Until Further Notice
<a href="#">Hillsborough River near Zephyrhills at State Park</a>	Hillsborough	Action: 9.85 ft	Moderate: 13.60 ft	15.3 ft	Rising	7-Aug	Until Further Notice
<a href="#">Horse Creek near Arcadia at SR 72</a>	DeSoto	Action: 11.96 ft	Moderate: 14.50 ft	21.2 ft	Rising	8-Aug	Until Further Notice
<a href="#">Little Manatee River at Mimauma at US 301</a>	Hillsborough	Moderate: 16.78 ft	Major: 17.60 ft	20.1 ft	Rising	6-Aug	Until Further Notice
<a href="#">Manatee River at Rye Bridge</a>	Manatee	Major: 19.35 ft	Major: 19.8 ft	20 ft	Rising	5-Aug	0630 EDT 7-Aug
<a href="#">Manatee River near Myakka Head at SR 64</a>	Manatee	Major: 19.15 ft	Major: 19.40 ft	20.9 ft	Rising	5-Aug	Until Further Notice
<a href="#">North Fork Black Creek near Middleburg</a>	Clay	Below: 7.29 ft	Minor: 17.8 ft	27.9 ft	Rising	6-Aug	7-Aug
<a href="#">Santa Fe River at Fort White</a>	Gilchrist, Columbia	Below: 21.49 ft	Major: 30.40 ft	35.4 ft	Rising	10-Aug	Until Further Notice
<a href="#">Santa Fe River at Three Rivers Estates</a>	Gilchrist, Suwannee, Columbia	Action: 15.17 ft	Major: 24.20 ft	33.4 ft	Rising	10-Aug	Until Further Notice
<a href="#">Santa Fe River at Worthington Springs</a>	Alachua, Union	Action: 59.63 ft	Major: 66.50 ft	71.2 ft	Rising	8-Aug	Until Further Notice
<a href="#">Santa Fe River near High Springs</a>	Alachua, Columbia	Below: 31.99 ft	Moderate: 45.80 ft	48.5 ft	Rising	9-Aug	Until Further Notice
<a href="#">Santa Fe River near O'Leno State Park</a>	Alachua, Columbia	Below: 41.82 ft	Moderate: 54.80 ft	57.1 ft	Rising	8-Aug	Until Further Notice
<a href="#">South Fork Black Creek near Penney Farms</a>	Clay	Below: 8.70 ft	Minor: 14.6 Ft	29.4	Rising	6-Aug	8-Aug
<a href="#">St. Marks River near Newport on Old Magnolia</a>	Leon, Wakulla	Below: 6.80 ft	Moderate: 9.20 ft	13.9 ft	Rising	6-Aug	Until Further Notice
<a href="#">St. Mary's near Macclenny</a>	Baker, Nassau	Below: 9.23 ft	Major: 20.00 ft	24.4 ft	Rising	7-Aug	Until Further Notice
<a href="#">Suwannee River at White Springs</a>	Hamilton, Suwannee, Columbia	Below: 68.08 ft	Major: 86.30 ft	87.7 ft	Rising	7-Aug	Until Further Notice
<a href="#">Suwannee River near Suwannee Springs</a>	Hamilton, Suwannee	Below: 53.08 ft	Major: 74.10 ft	78.2 ft	Rising	9-Aug	Until Further Notice
<a href="#">Withlacoochee River near Holder at SR-200</a>	Citrus	Below: 4.34 ft	Moderate: 9.30 ft	13.3 ft	Rising	10-Aug	Until Further Notice

For more details on the hydrographs as well as impact statements, click the links for each river gauge.



# Summary

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## **Tropical Storm Debby:**

- As of 2:00 PM EDT, Debby has weakened into a tropical storm.
- Currently, Debby is located about 30 miles southeast of Valdosta, Georgia and is moving northeastward at 6 mph.
- A turn toward the east is expected on Tuesday, followed by a turn to the north at a slow forward speed on Wednesday.
- Maximum sustained winds have decreased to near 50 mph; however, tropical storm-force winds still extend outward up to 140 miles from the center.
- Storm Surge Warnings along the Florida Gulf Coast have been discontinued; Tropical Storm Warnings remain in effect for portions of the Suwannee River Valley into Northeast Florida.

## **Tropical Watches & Warnings Issued (NHC):**

- **Tropical Storm Warnings:** *Hamilton, Suwannee, Levy, Marion, Alachua, Gilchrist, Columbia, Union, Baker, Nassau, Duval, Bradford, Clay, St. Johns, and Putnam Counties.*

## **Florida Outlook:**

- Over the past 24 hours, Debby has produced a widespread swath of 5-8" of rainfall along the Florida Gulf Coast and into the Suwannee River Valley, with locally higher amounts of 8-10" measured over the inland Florida Big Bend and south of Tampa Bay. The highest rainfall totals of 10-14" occurred over portions of Charlotte and Sarasota Counties and over the inland Florida Big Bend (mainly west of the I-75 corridor). With now localized rainfall totals in excess of 14-16" observed over the interior Suwannee River Valley (Suwannee, Columbia, Hamilton).
- **River Flood Warnings** have been issued across several North and West Florida Rivers this afternoon as numerous rivers have reached or are forecast to reach moderate to major flood stage with several others forecast to reach minor flood stage.
  - Additional River Flood Warnings will be possible over the next several days depending on rainfall across portions of the state, as well as portions of southern Georgia.
  - Slight changes in the location of the highest rainfall totals can impact riverine forecasts as the rainfall event unfolds. Riverine forecasts will likely change in peak height in future updates as the full envelope of rainfall enters the forecast period.

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





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