



TROPICAL UPDATE



5 PM EDT

Thursday, July 11, 2019

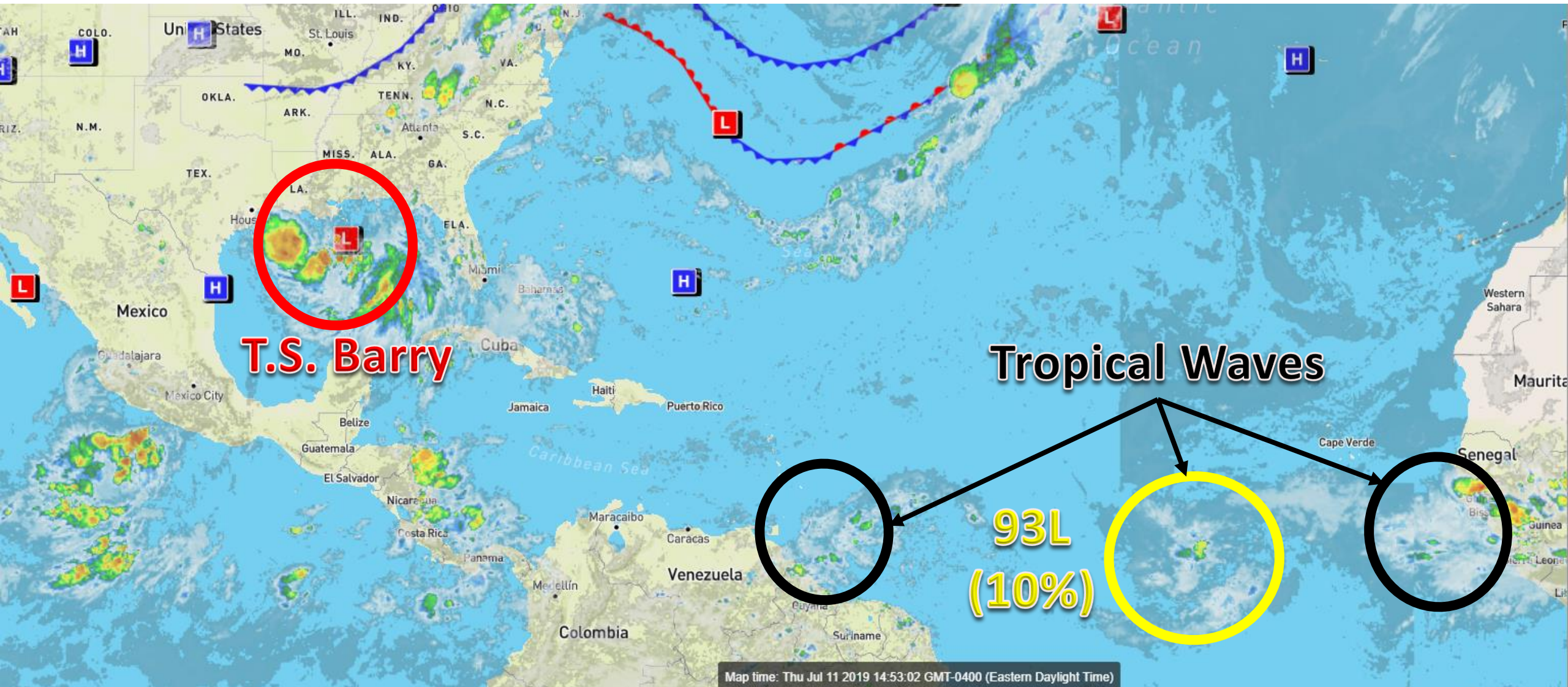
Tropical Storm Barry &

Invest 93L (10%)

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.

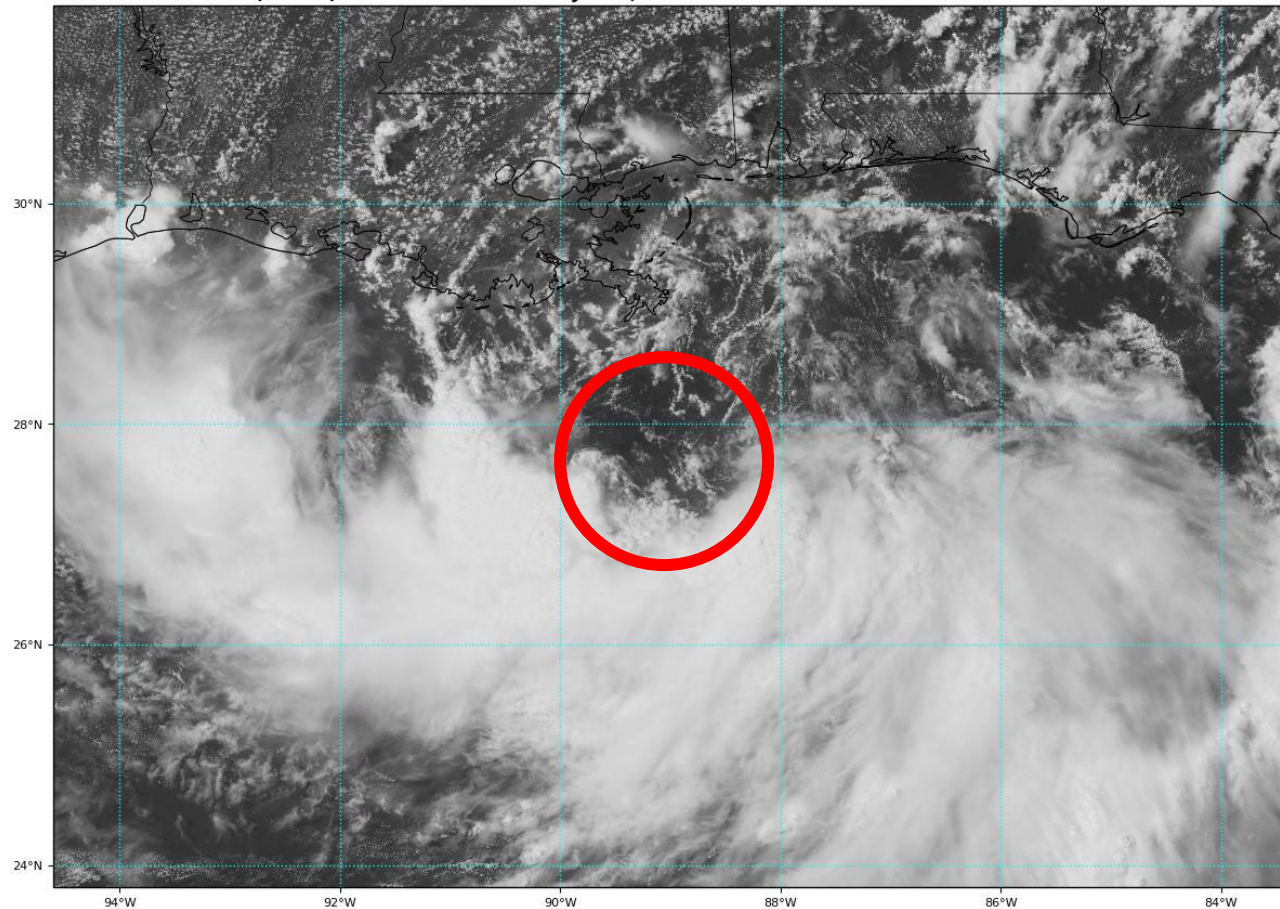
Atlantic Basin Satellite Image

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



GOES-16 Channel 2 (visible) Reflectance at 20:02Z Jul 11, 2019

TROPICALTIDBITS.COM

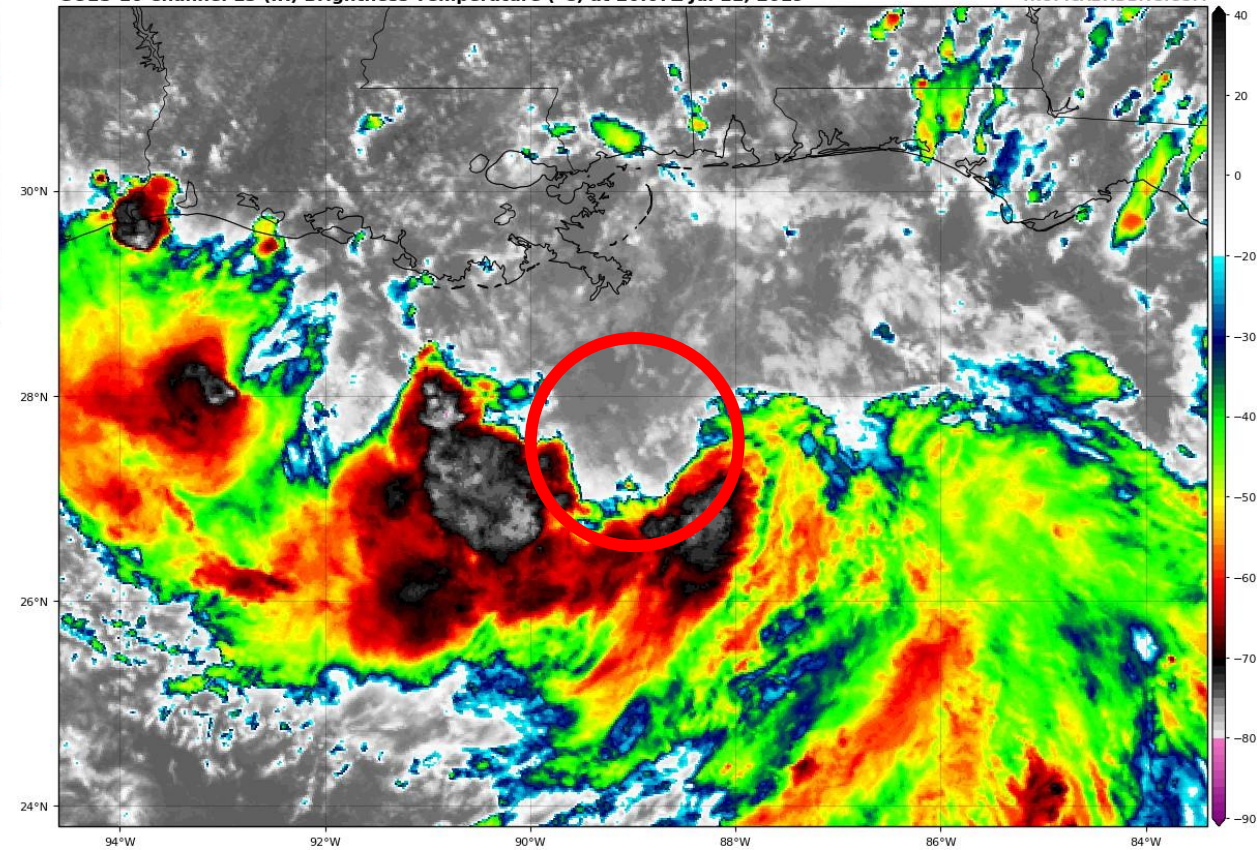


TS Barry Satellite Images

Tropical Storm Barry remains devoid of showers or thunderstorms on the north side of the center (red circle). This is due to dry air and some northerly shear impacting the system.

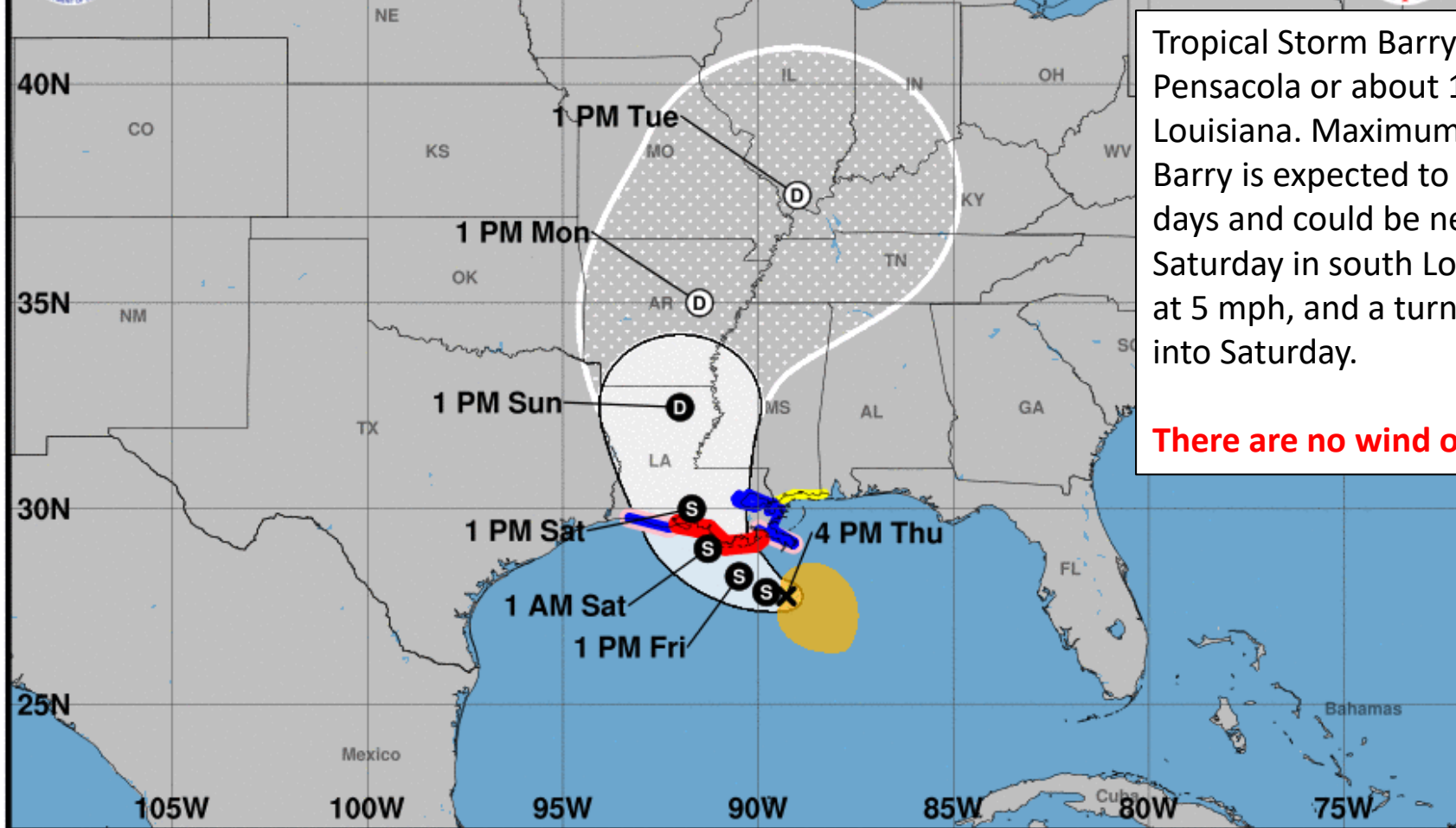
GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 20:07Z Jul 11, 2019

TROPICALTIDBITS.COM





Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



Tropical Storm Barry is located about 220 miles southwest of Pensacola or about 175 miles southeast of Morgan City, Louisiana. Maximum sustained winds remain near 40 mph. Barry is expected to gradually strengthen over the next couple days and could be near hurricane strength at landfall on Saturday in south Louisiana. Barry is moving slowly westward at 5 mph, and a turn toward the northwest is expected Friday into Saturday.

There are no wind or surge alerts in effect for Florida.

Tropical Storm Barry

Thursday July 11, 2019

4 PM CDT Advisory 6

NWS National Hurricane Center

Current information: x

Center location 27.8 N 89.3 W

Maximum sustained wind 40 mph

Movement W at 5 mph

Forecast positions:

● Tropical Cyclone ○ Post/Potential TC

Sustained winds: D < 39 mph

S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:

Day 1-3 Day 4-5

Watches:

Hurricane Trop Stm

Warnings:

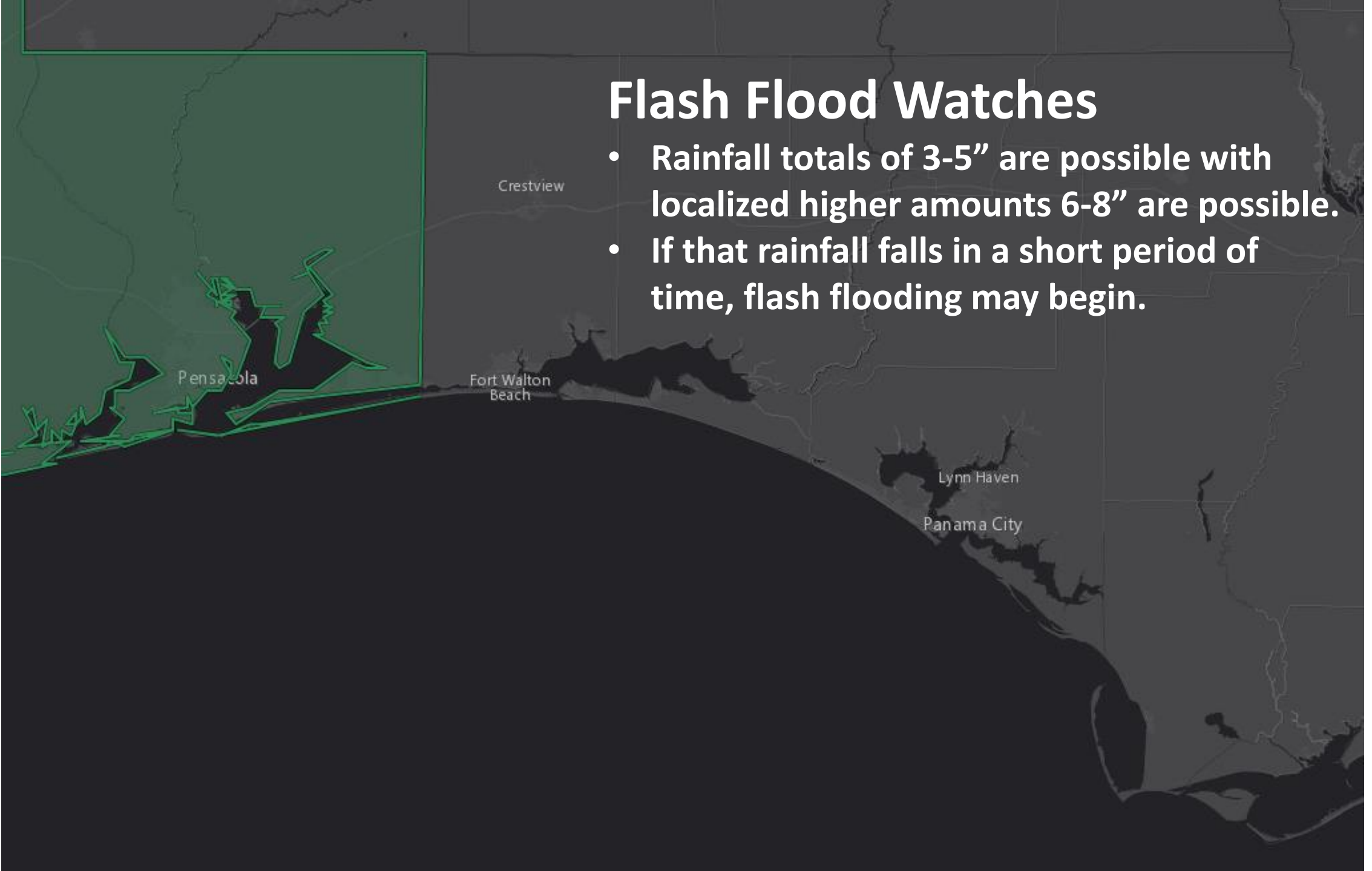
Hurricane Trop Stm

Current wind extent:

Hurricane Trop Stm

Flash Flood Watches

- Rainfall totals of 3-5" are possible with localized higher amounts 6-8" are possible.
- If that rainfall falls in a short period of time, flash flooding may begin.



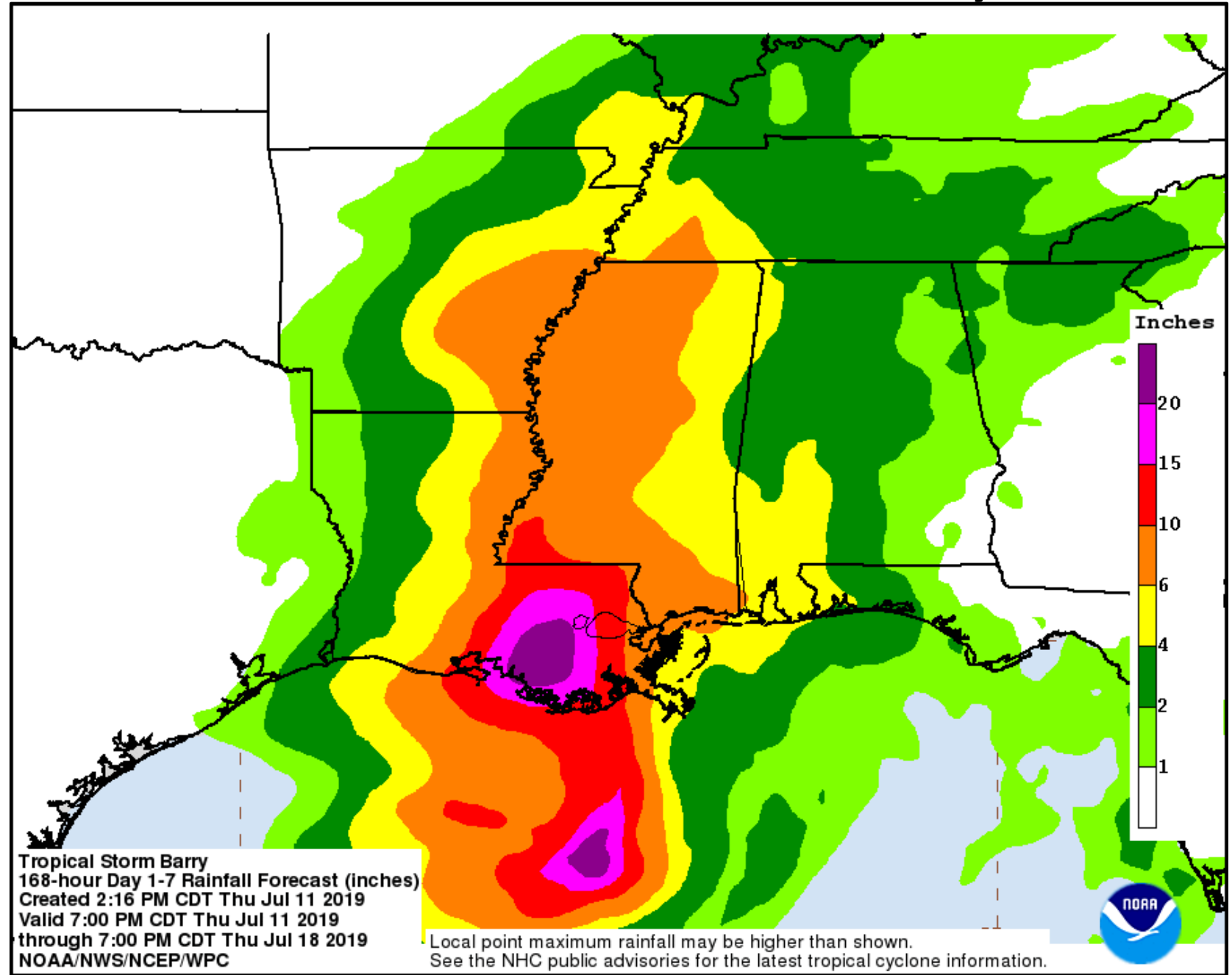
Cumulative Rainfall Total Next 7-Days

A widespread 1-3" is expected across much of the state this week. Rainfall totals of 3-5" are possible in the Panhandle with any outer bands.

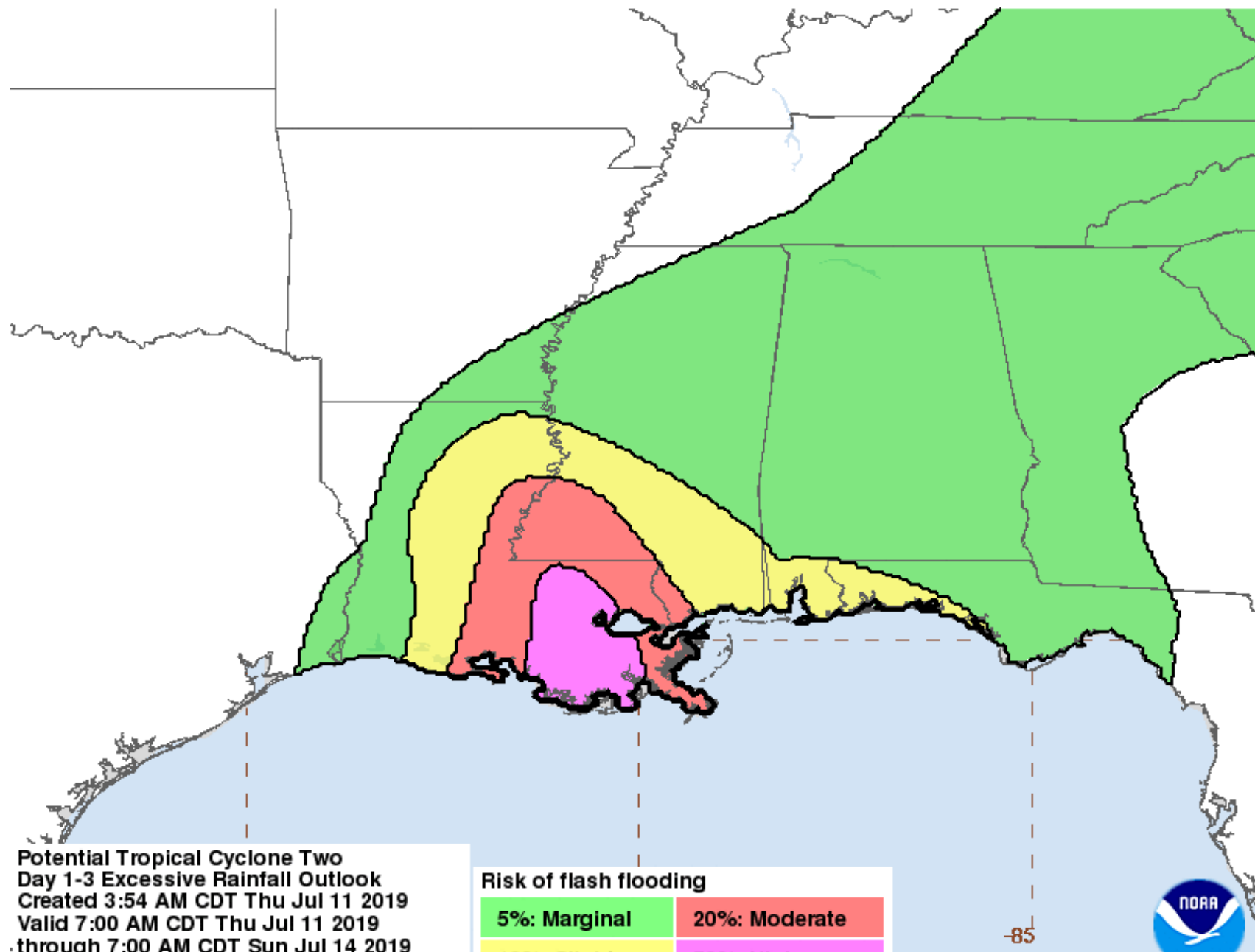
***THIS DOES NOT INCLUDE
LOCALLY HIGHER TOTALS*
which could be as high as 6+"
along the Gulf Coast**

Higher rainfall totals may occur in the western Panhandle should the forecast track shift significantly eastward.

All Florida rivers are well below flood stage. Drought conditions continue across inland Northwest Florida.



Greatest Flash Flood Risk Over the Next 3 Days



Day 1 Through Friday morning

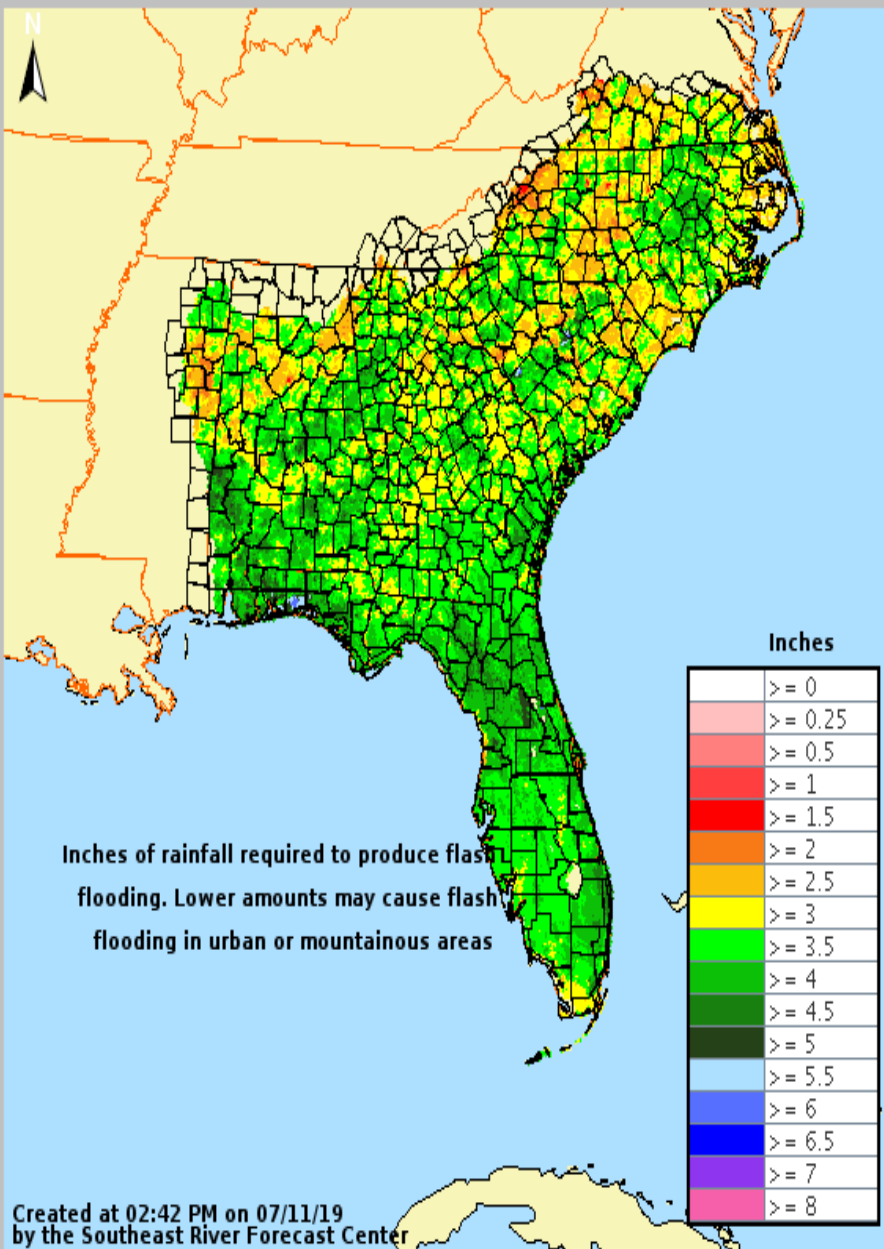
Day 2 Through Saturday morning

Day 3 Through Sunday morning



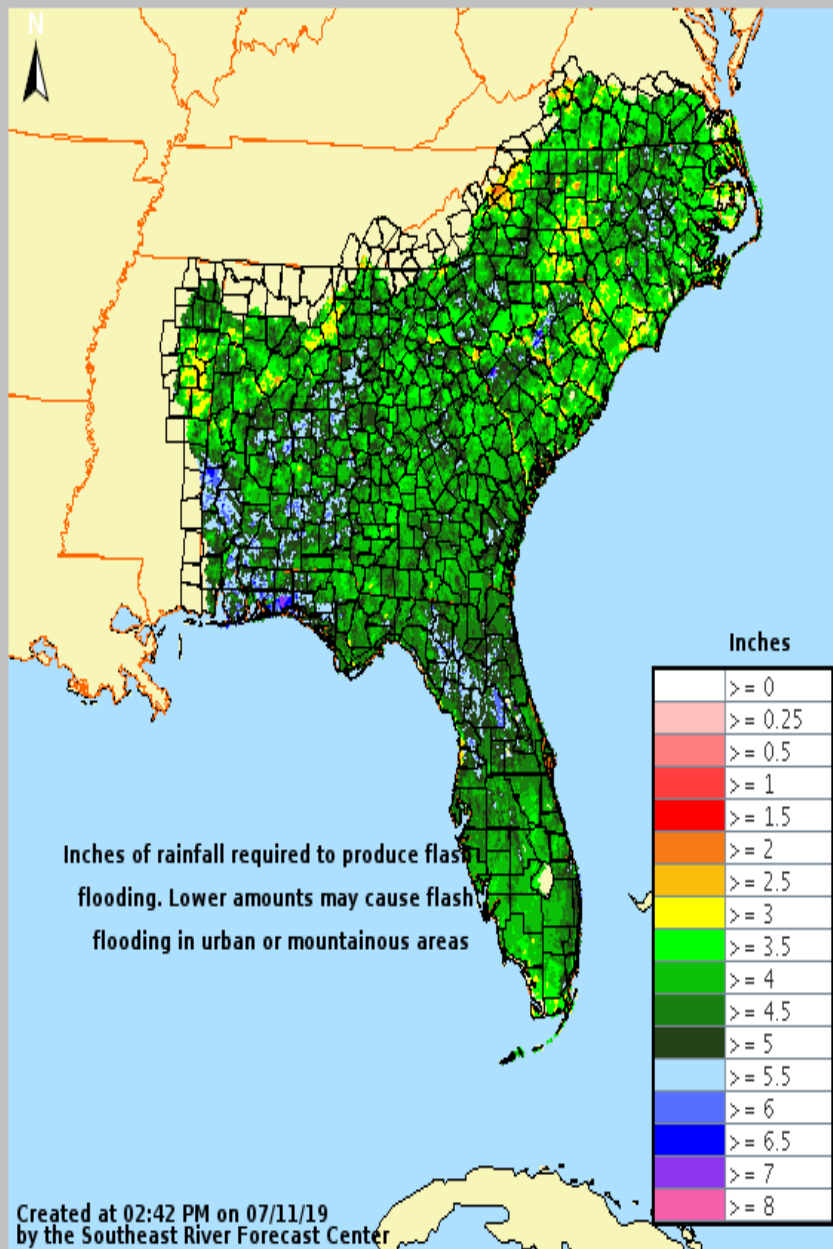
3-hr Flash Flood Guidance

Valid: 07/11/2019 @ 02:42 PM



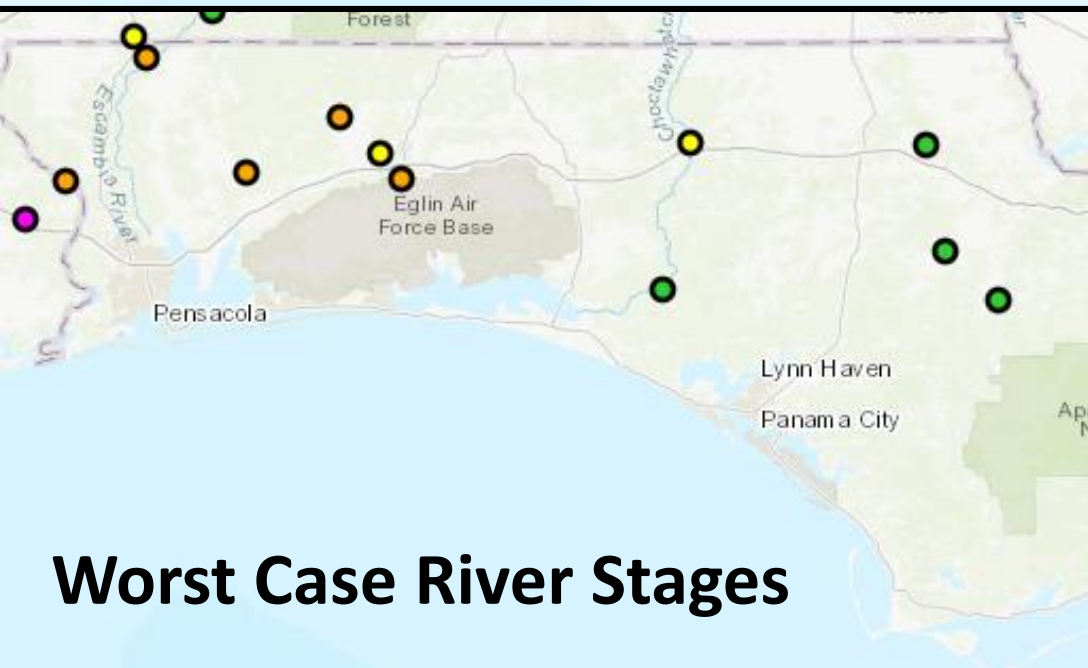
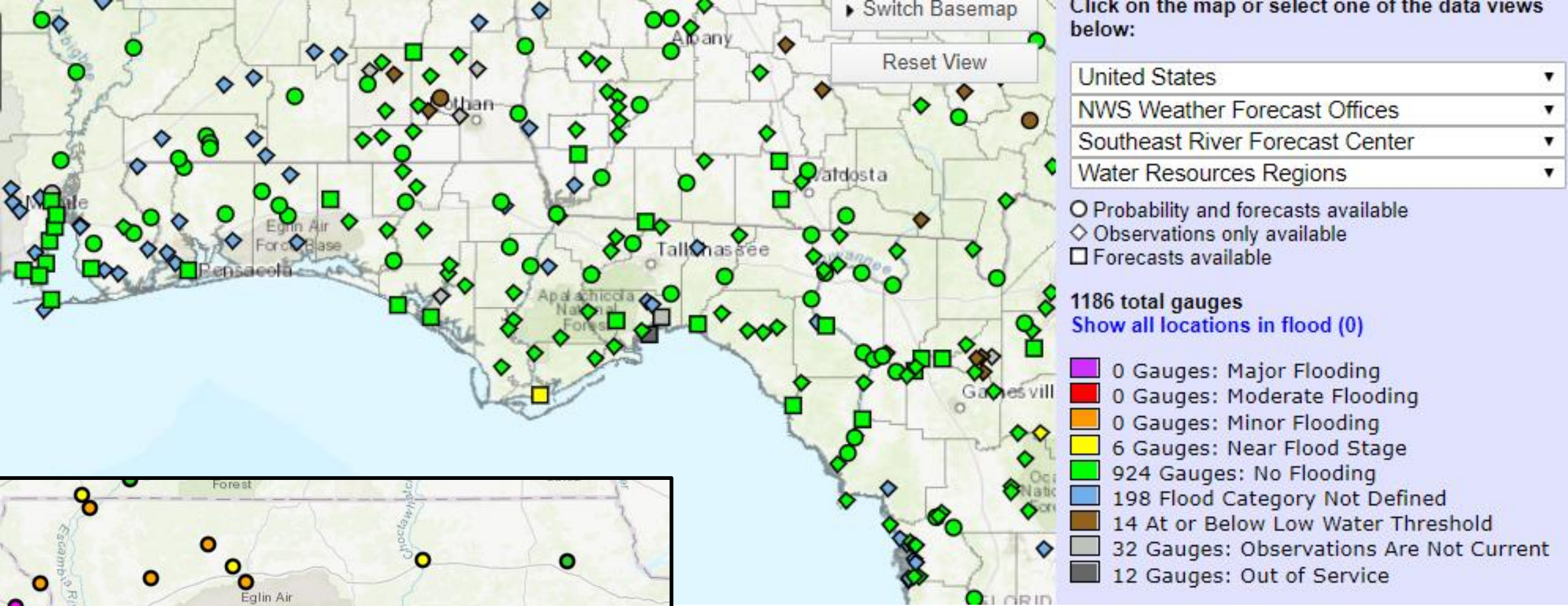
6-hr Flash Flood Guidance

Valid: 07/11/2019 @ 02:42 PM



Flash Flood Potential Markers

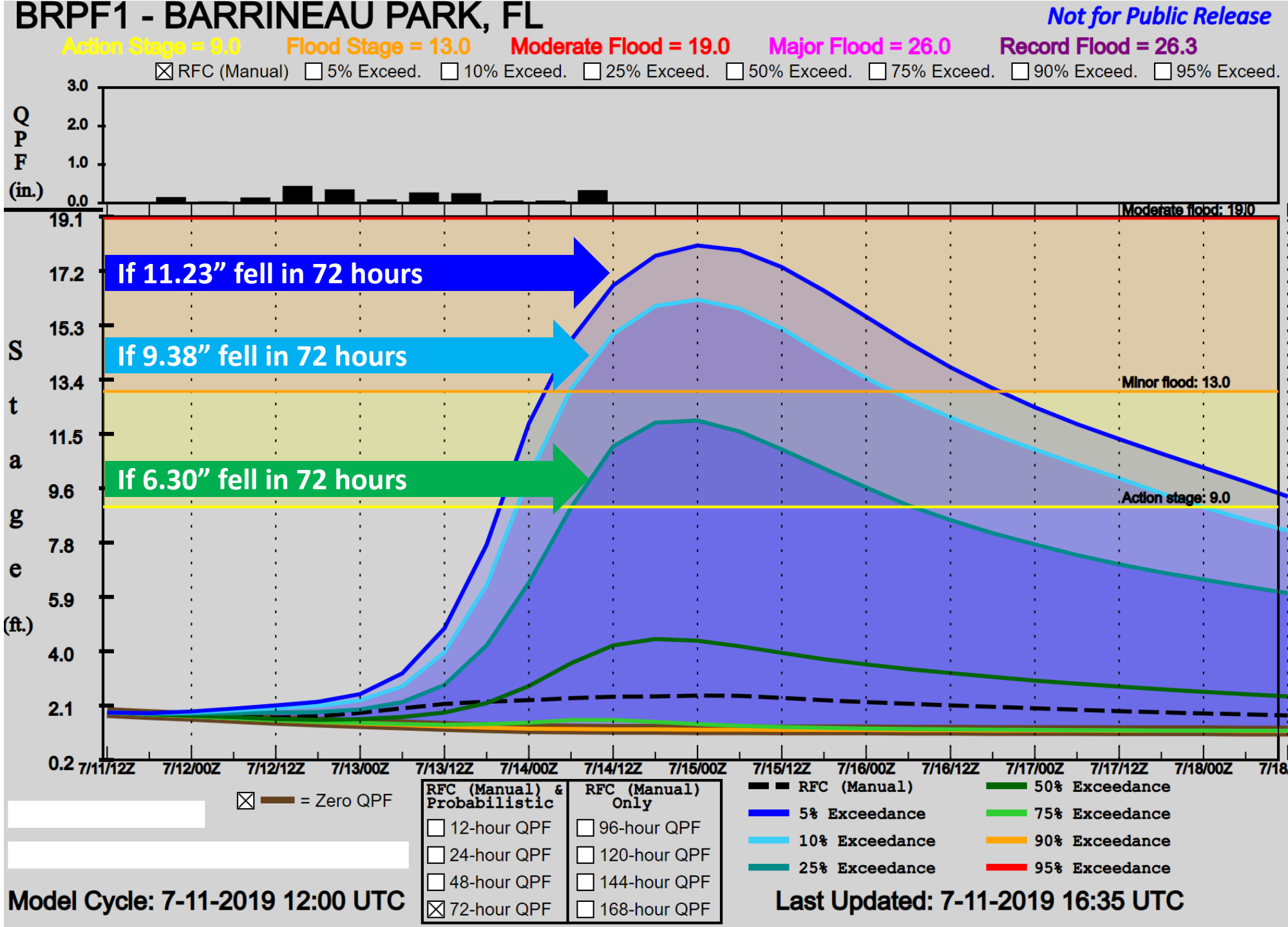
- In general, flash flooding could occur in the Panhandle if heavy rain in excess of 3-5" occurs in a short amount of time or 5-8" within a 24 hour period.



Panhandle rivers are currently at low flow and have the capacity to absorb 3-4" of runoff on average. However, if any drainage basing were to receive more than 5-8", some minor river flooding could be possible.

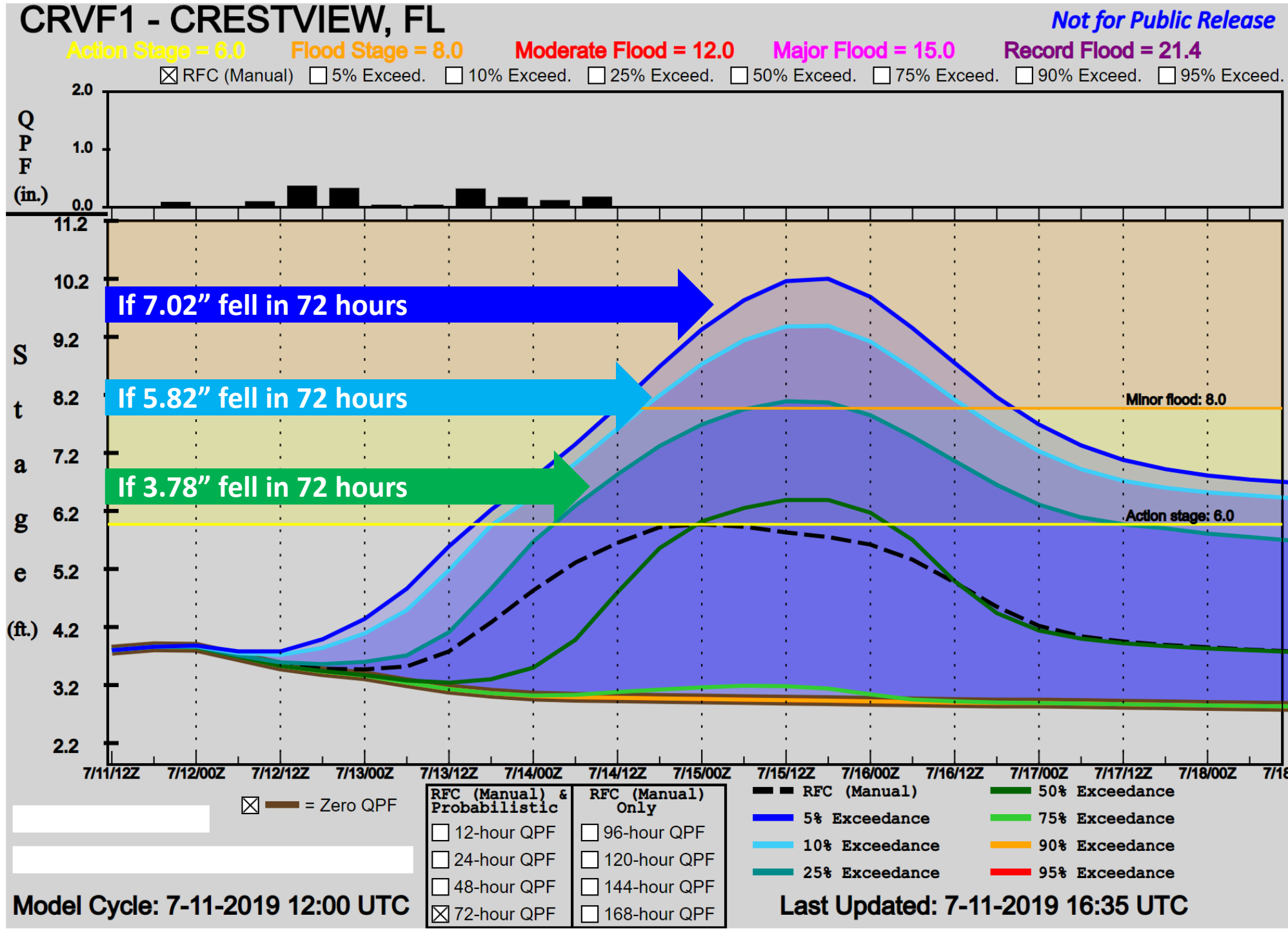
*Probabilistic
Hydrograph for
the Perdido
River near
Barrineau Park*

It would take at least 8-9" of rain in 3 days to cause minor flooding on the Perdido River.

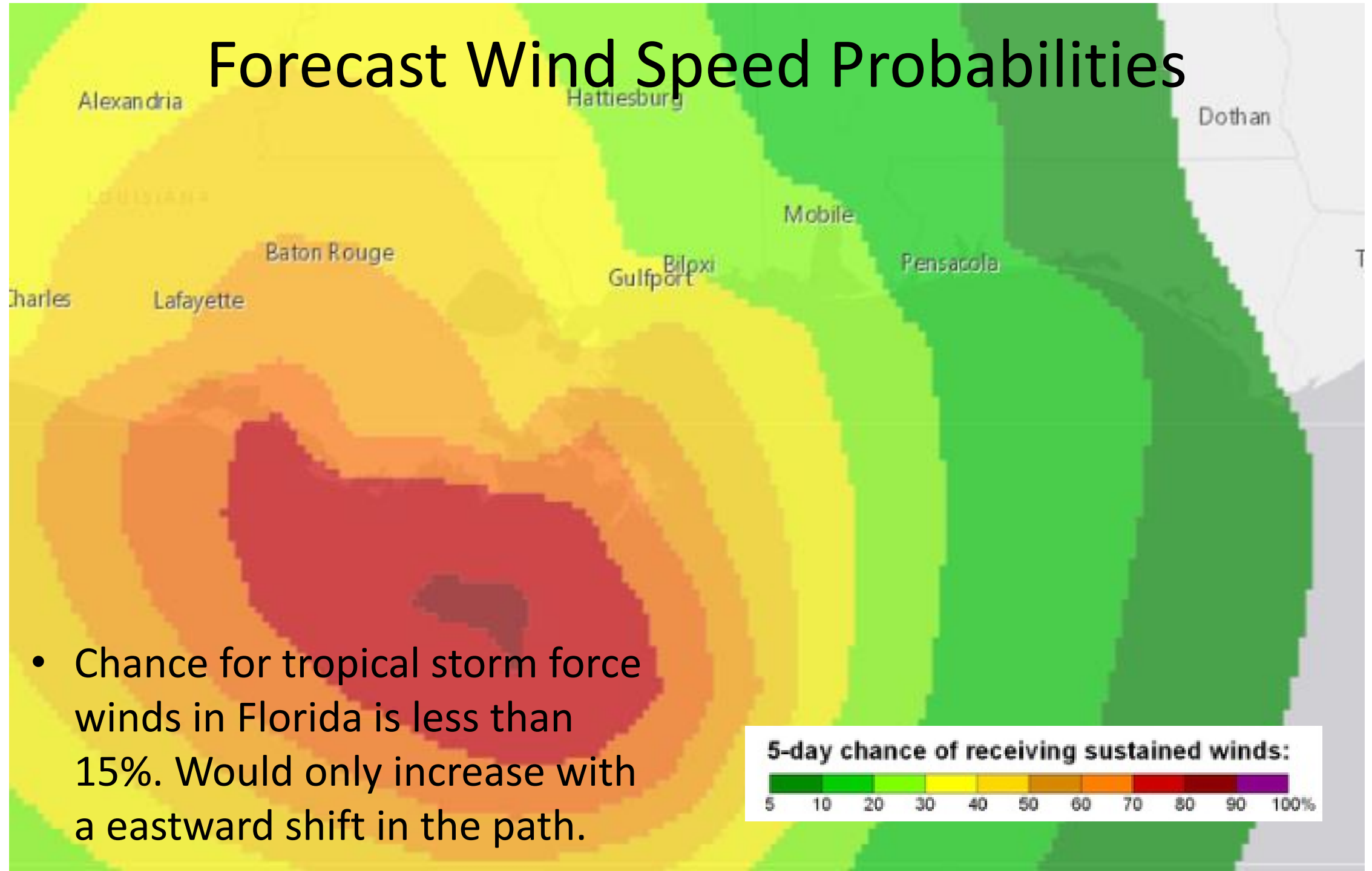


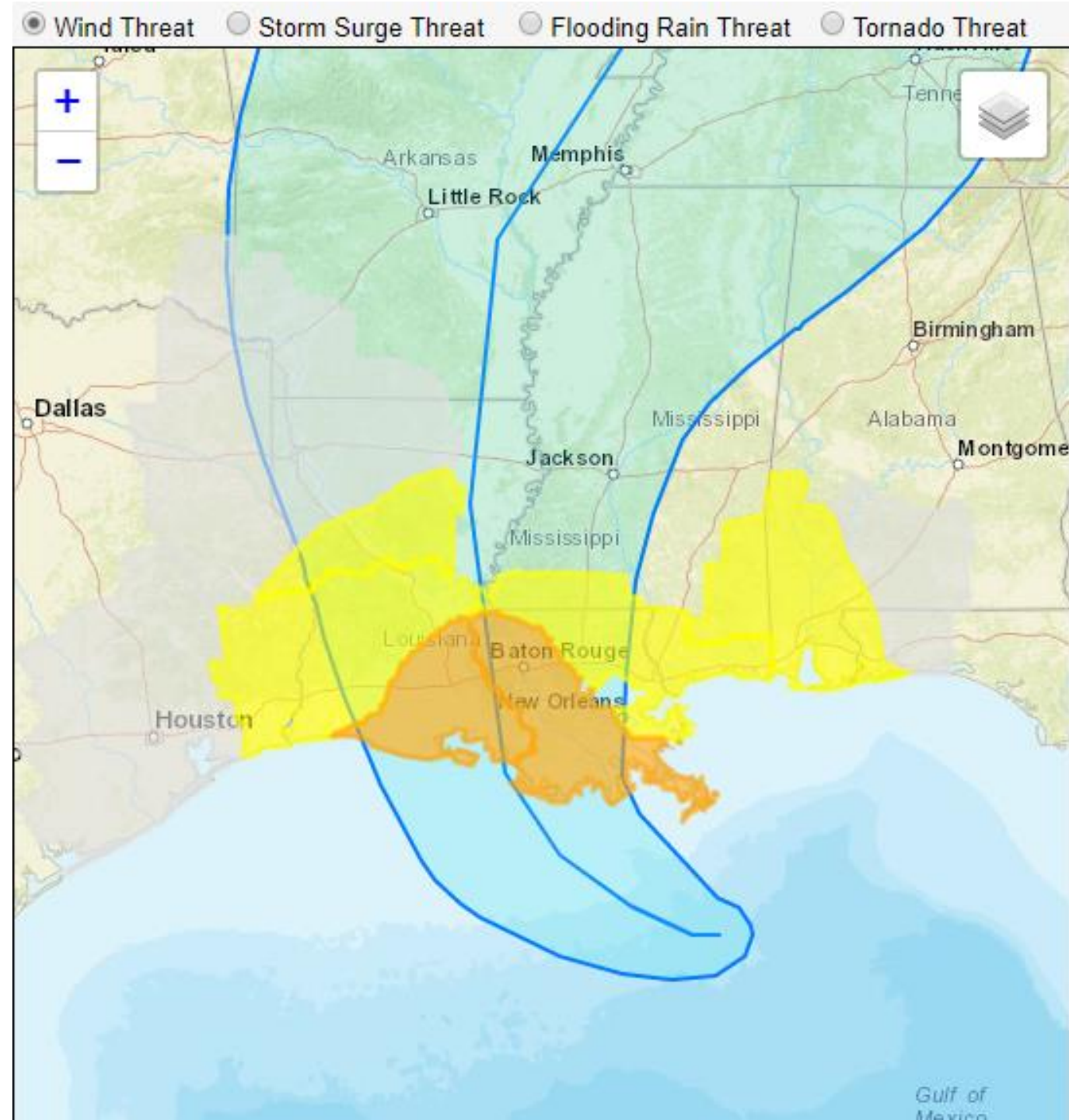
*Probabilistic
Hydrograph for
the Shoal River
near Crestview*

It would take at least 4-6" of rain in 3 days to cause minor flooding on the Shoal River near Crestview.



Forecast Wind Speed Probabilities



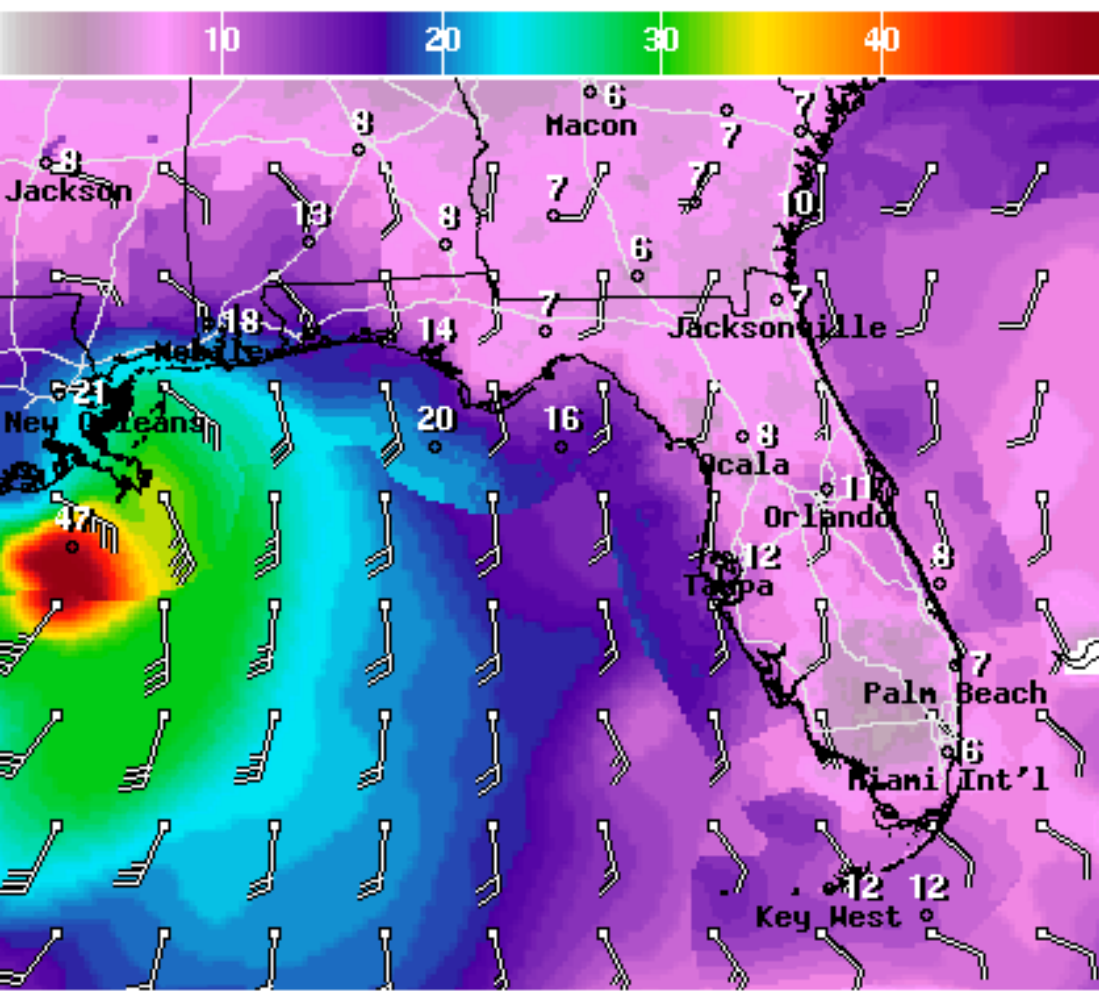


NWS Threat/Impact Graphics

- Low: Threat for potential wind 39-57mph.
- Potential Impacts Include:
- *Damage to porches, awnings, carports, sheds, and unanchored objects.
 - *Tree limbs broken off.
 - *Isolated power and communications outages.

Wind Threat
Potential for wind greater than 110 mph
Potential for wind 74 to 110 mph
Potential for wind 58 to 73 mph
Potential for wind 39 to 57 mph
Wind less than 39 mph

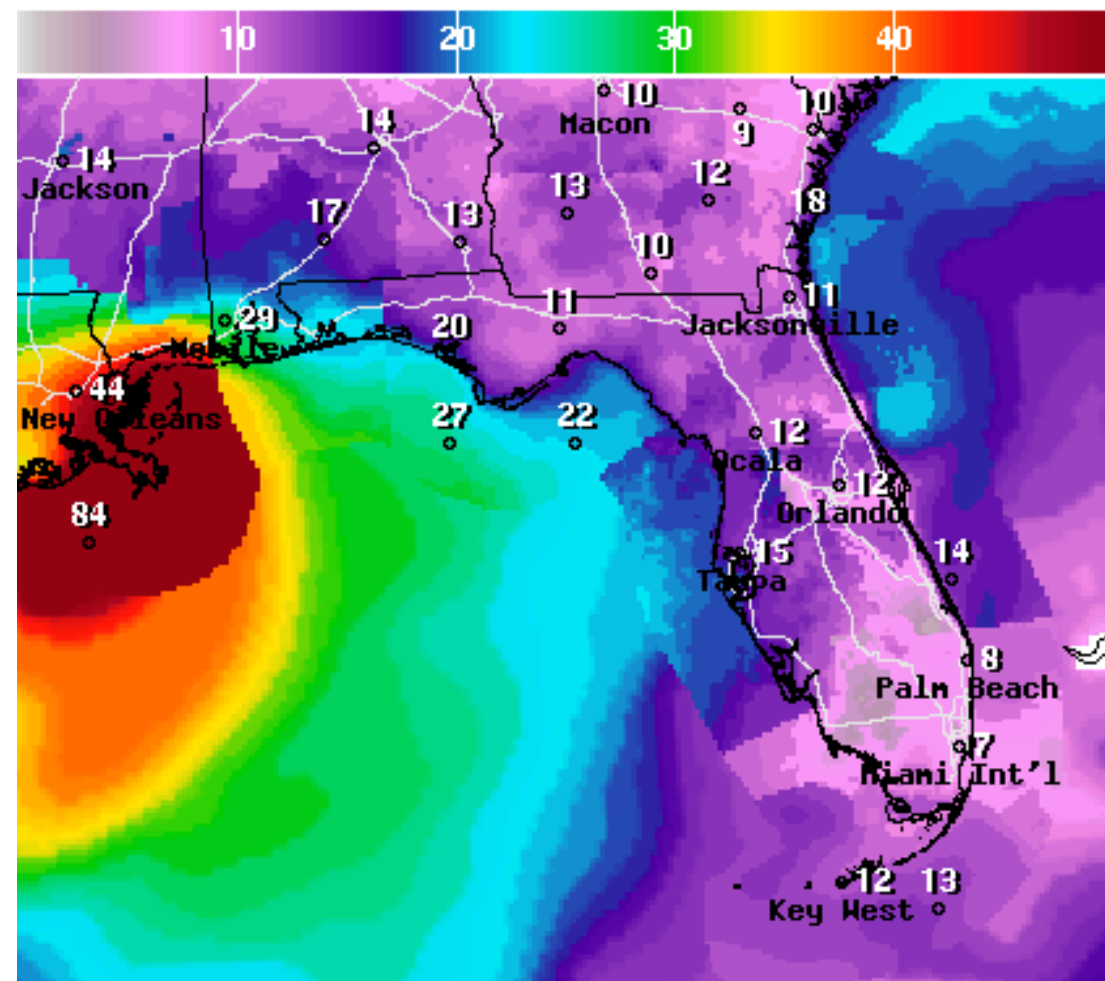
Forecast Sustained Wind Speeds and Gusts for Friday



WindSpd(Kts) & WindDir For Fri Jul 12 2019 2PM EDT

(Fri Jul 12 2019 18Z)

Sustained winds for the Panhandle should be in the 10-20mph range, with some gusts to 25-30mph




Wind Gust(Kts) Fri Jul 12 2019 5PM EDT

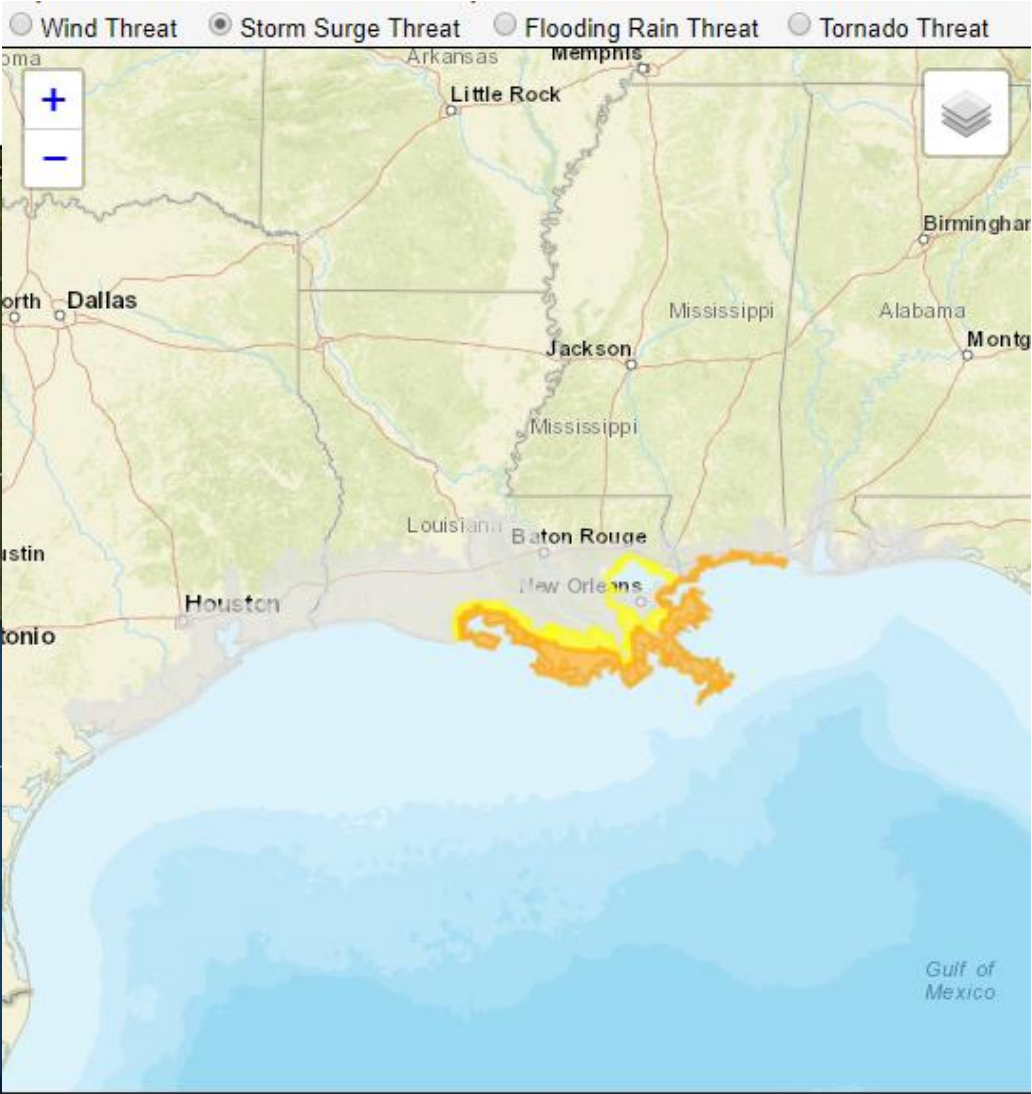
(Fri Jul 12 2019 21Z)

Storm Surge Watch/Warning Graphic*

Tropical Storm Barry
Advisory 005 Issued: 10:00 AM CDT Thu Jul 11



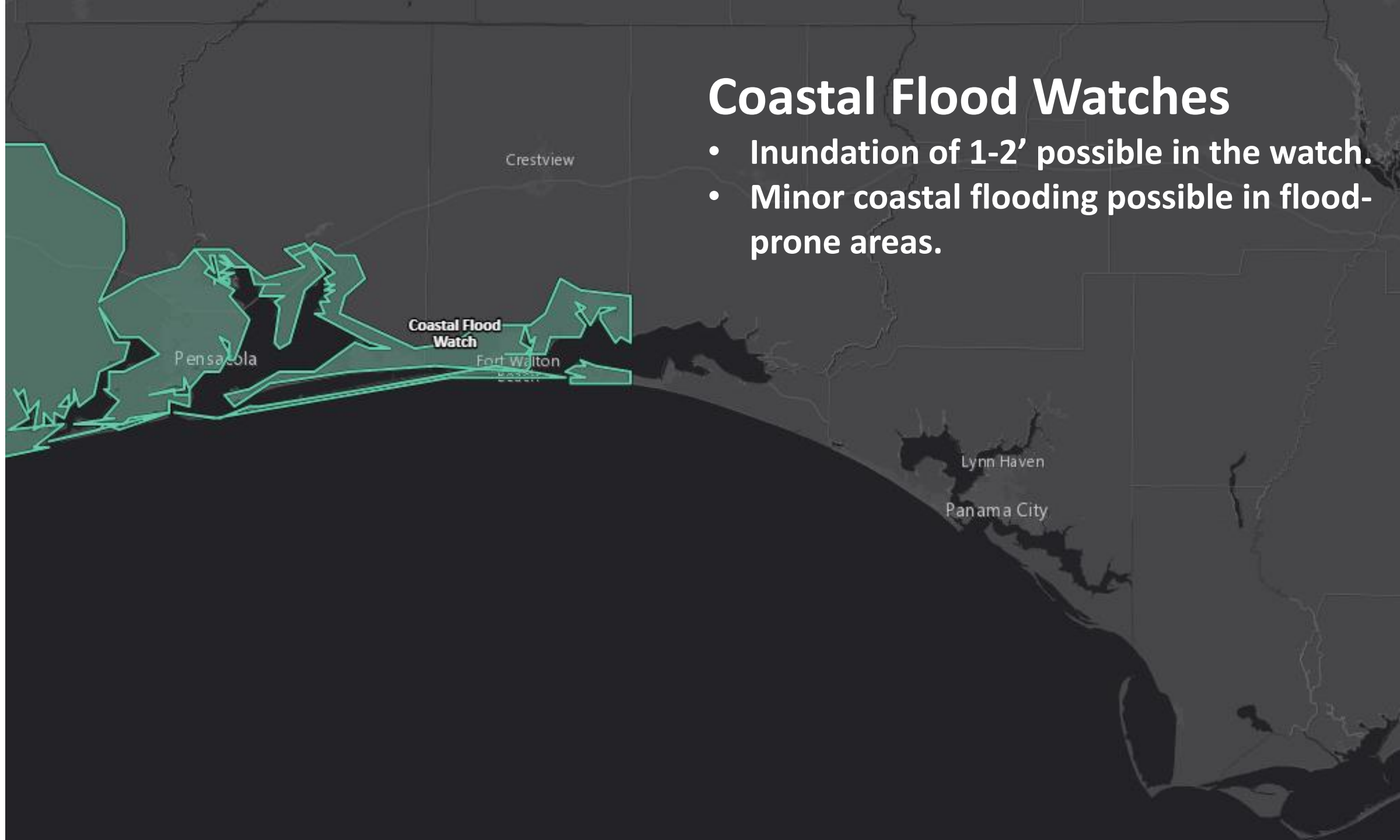
 Storm Surge Warning
 Storm Surge Watch



Storm Surge Threat
Potential for storm surge flooding greater than 9 ft above ground
Potential for storm surge flooding greater than 6 ft above ground
Potential for storm surge flooding greater than 3 ft above ground
Potential for storm surge flooding greater than 1 ft above ground
Little to no storm surge flooding

Coastal Flood Watches

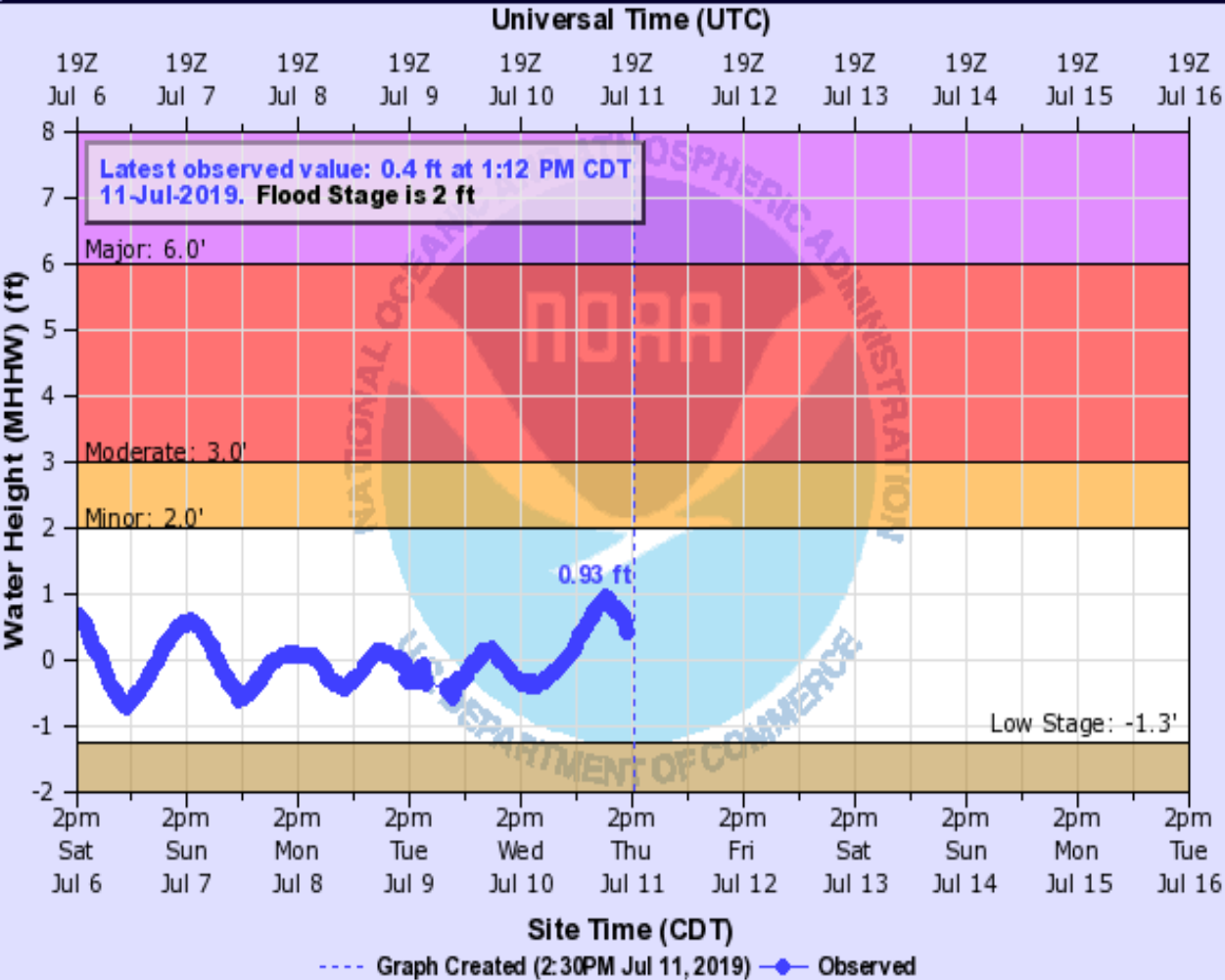
- Inundation of 1-2' possible in the watch.
- Minor coastal flooding possible in flood-prone areas.



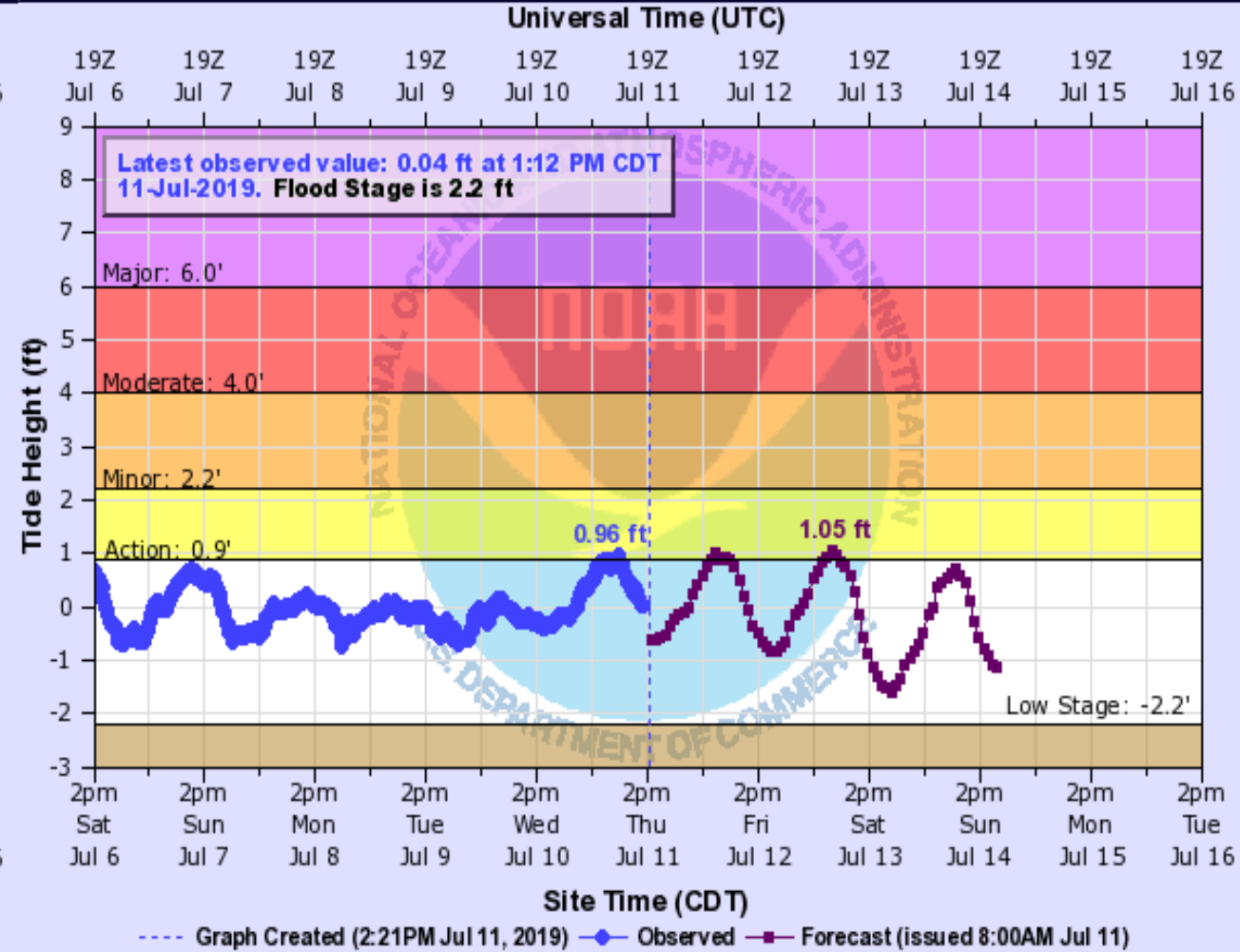
Current Tidal Gage Readings

Tides are running about 0.5 to 1 foot above normal. These tide levels may increase to as high as 2' above normal at high tide Friday and Saturday mornings, especially closer to Pensacola. This could result in some minor coastal flooding in prone areas.

GULF OF MEXICO TIDE GAUGE NEAR PENSACOLA (IN MHHW)



GULF OF MEXICO TIDE GAUGE AT PANAMA CITY BEACH (IN MHHW)

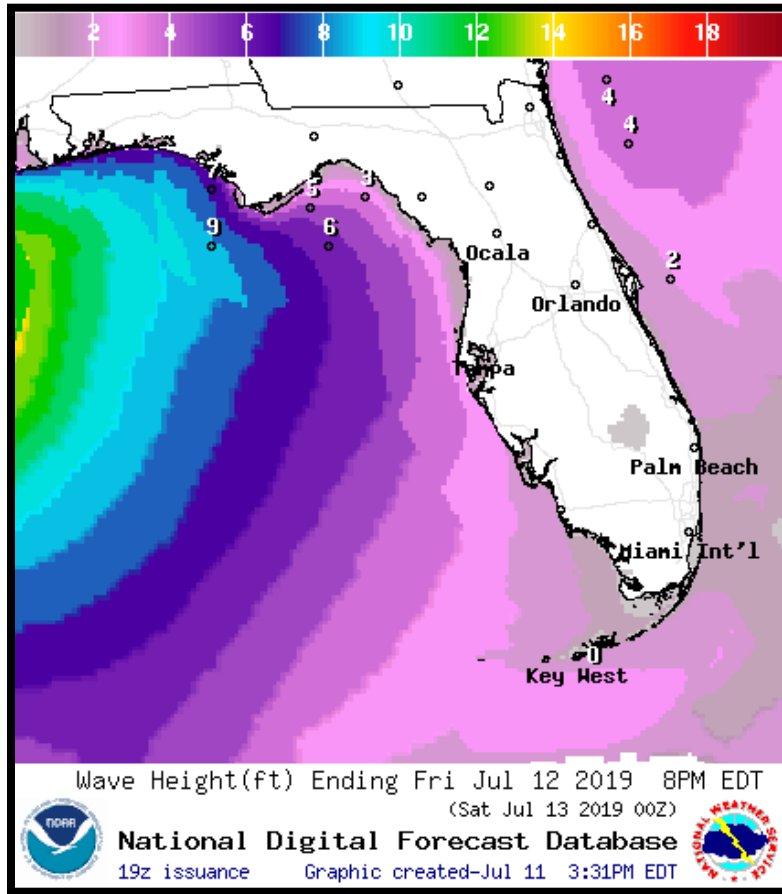


High Surf Advisories

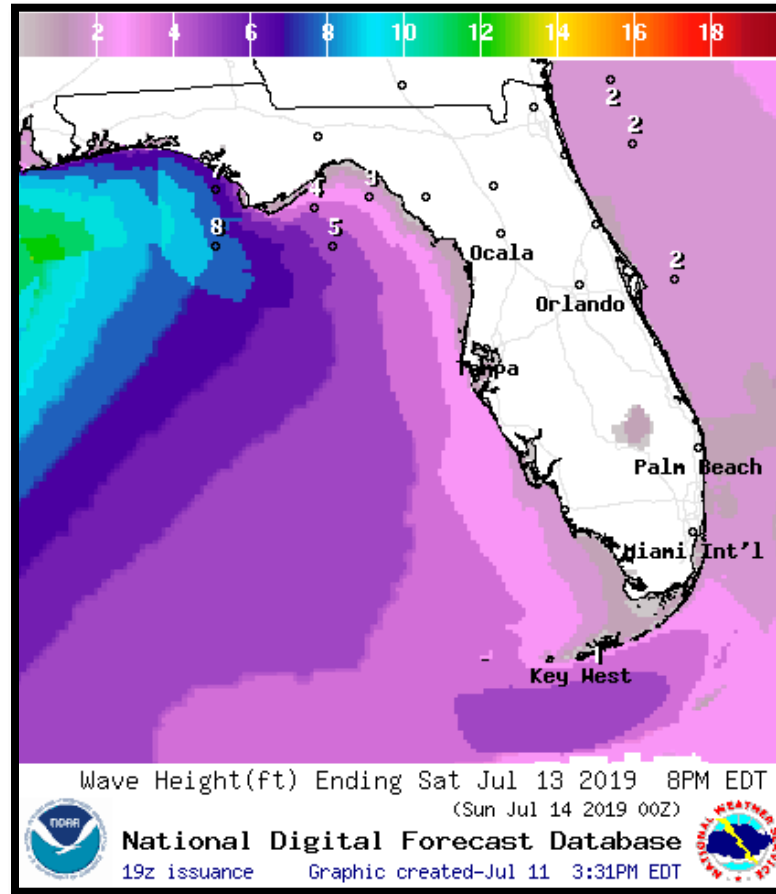
- Breaking waves of 5-8' possible
- Minor beach erosion possible



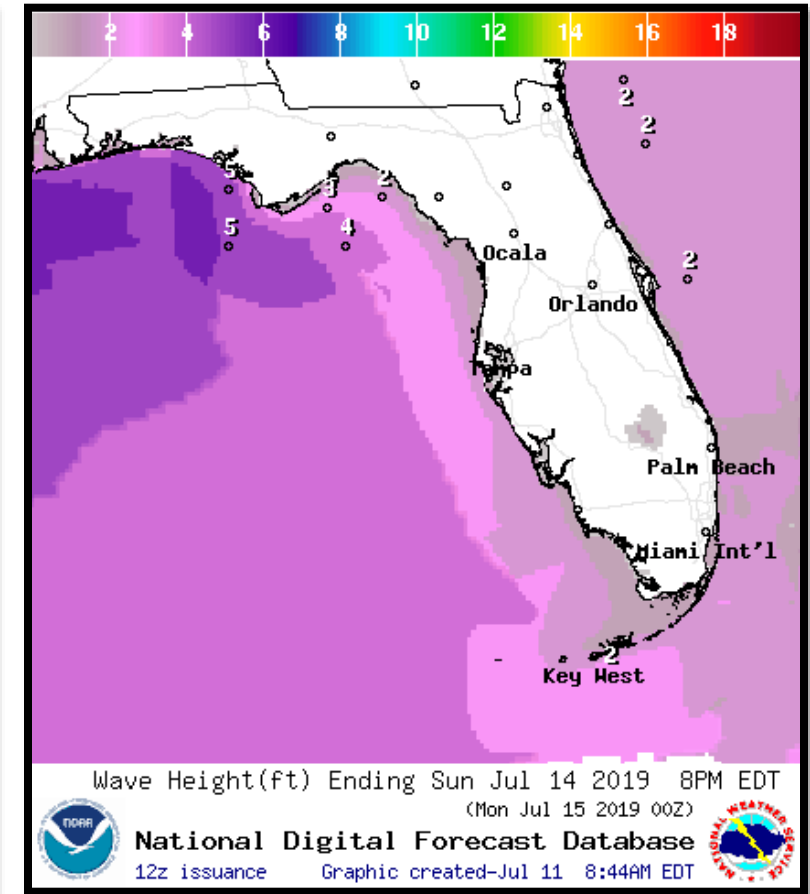
Forecast Wave Heights (feet) – Friday-Sunday



Friday



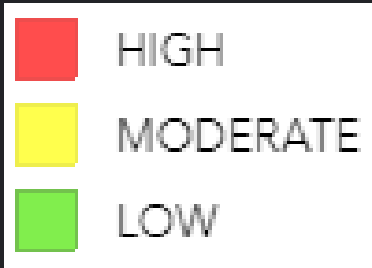
Saturday



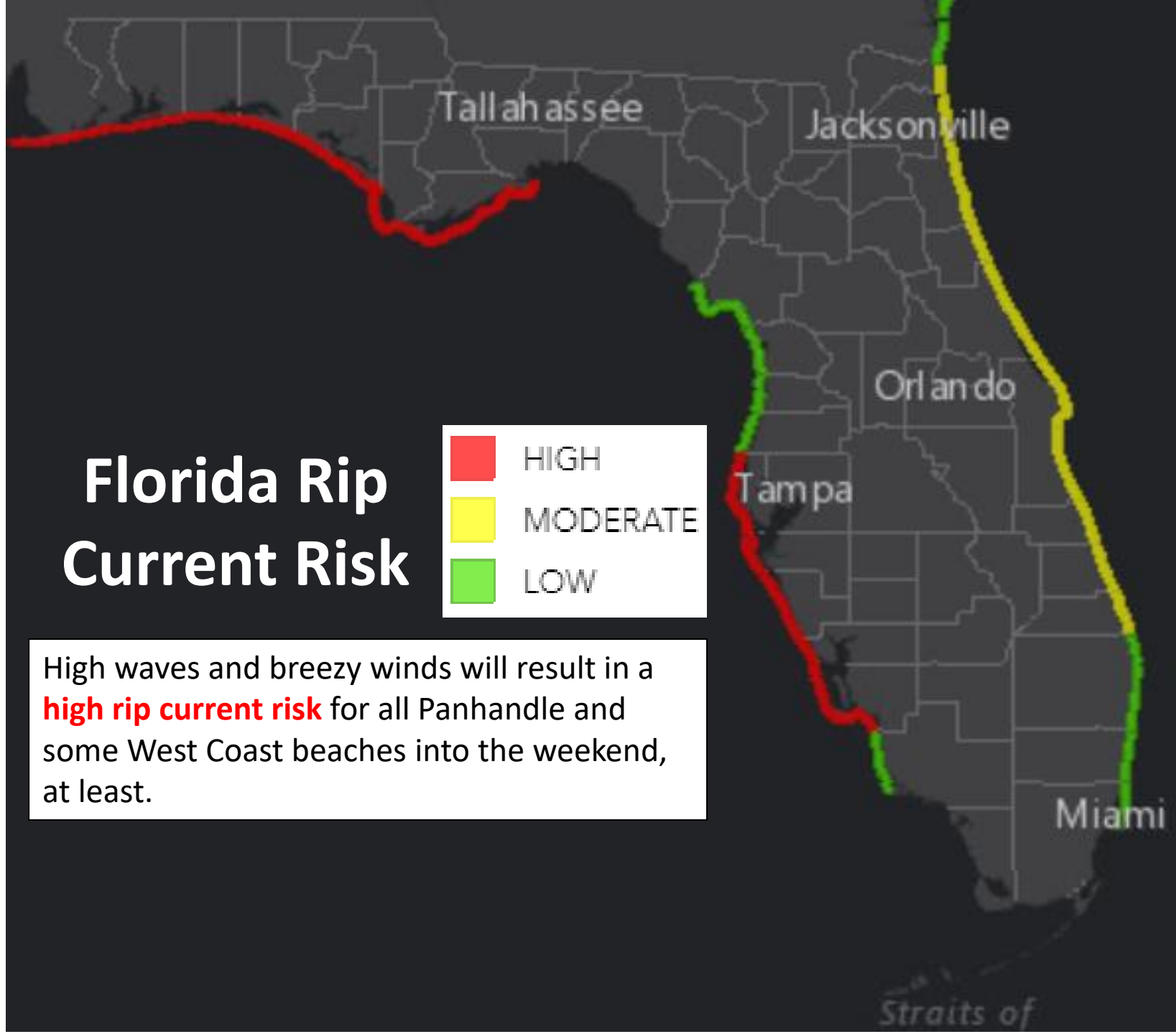
Sunday

High surf, a high risk of life-threatening rip currents, and some minor beach erosion will be likely in the Panhandle late week. With spring tidal cycles, some minor coastal flooding is possible near high tide in normally prone locations.

Florida Rip Current Risk



High waves and breezy winds will result in a **high rip current risk** for all Panhandle and some West Coast beaches into the weekend, at least.



Forecast Severe Weather Risk – Friday-Saturday



Friday



Saturday

Isolated waterspouts or tornadoes will be possible in the outer bands, mainly in the western Panhandle.

5	High
4	Moderate
3	Enhanced
2	Slight
1	Marginal
	Thunder



Key Messages for Tropical Storm Barry

Advisory 6: 4:00 PM CDT Thu Jul 11, 2019

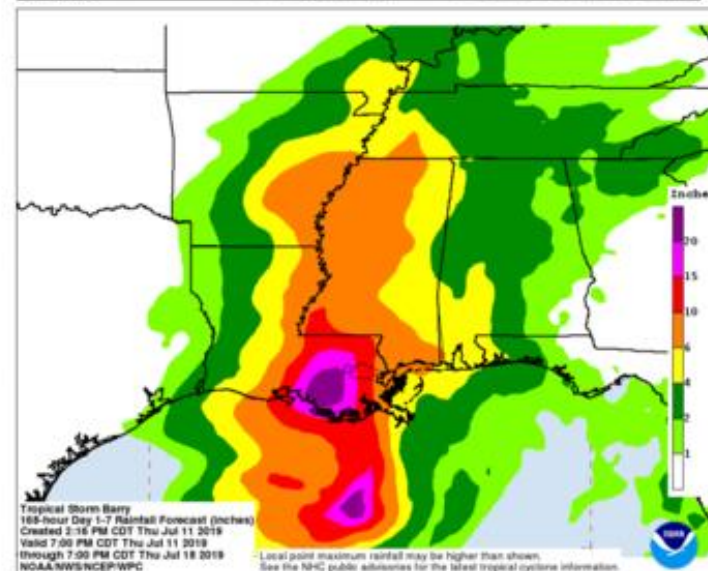
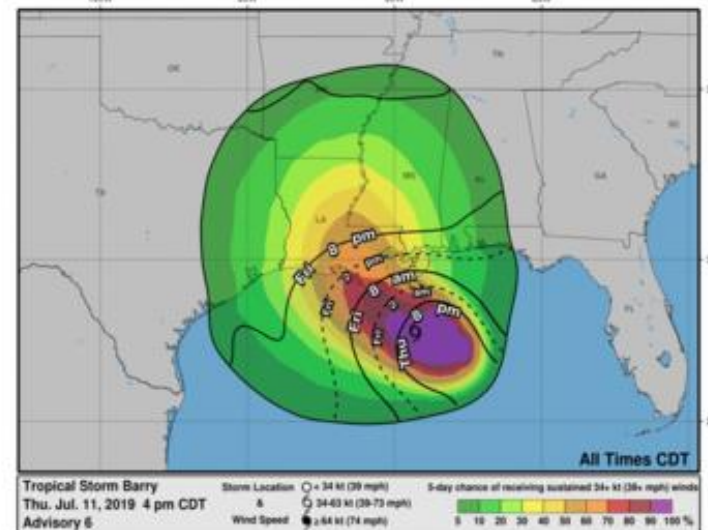


1. There is a danger of life-threatening storm surge inundation along the coast of southern and southeastern Louisiana where a Storm Surge Warning is in effect. The highest storm surge inundation is expected between the Mouth of the Atchafalaya River and Shell Beach. Residents in these areas should listen to any advice given by local officials.

2. The slow movement of Barry will result in a long duration heavy rainfall and flood threat along the central Gulf Coast and inland through the lower Mississippi Valley through the weekend into early next week. Flash flooding and river flooding will become increasingly likely, some of which may be significant, especially along and east of the track of the system.

3. Hurricane conditions are expected along a portion of the coast of Louisiana, where a Hurricane Warning has been issued. Residents in these areas should rush their preparations to completion, as tropical storm conditions are expected to arrive in the warning area by Friday morning.

Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



For more information go to hurricanes.gov



Five-Day Graphical Tropical Weather Outlook

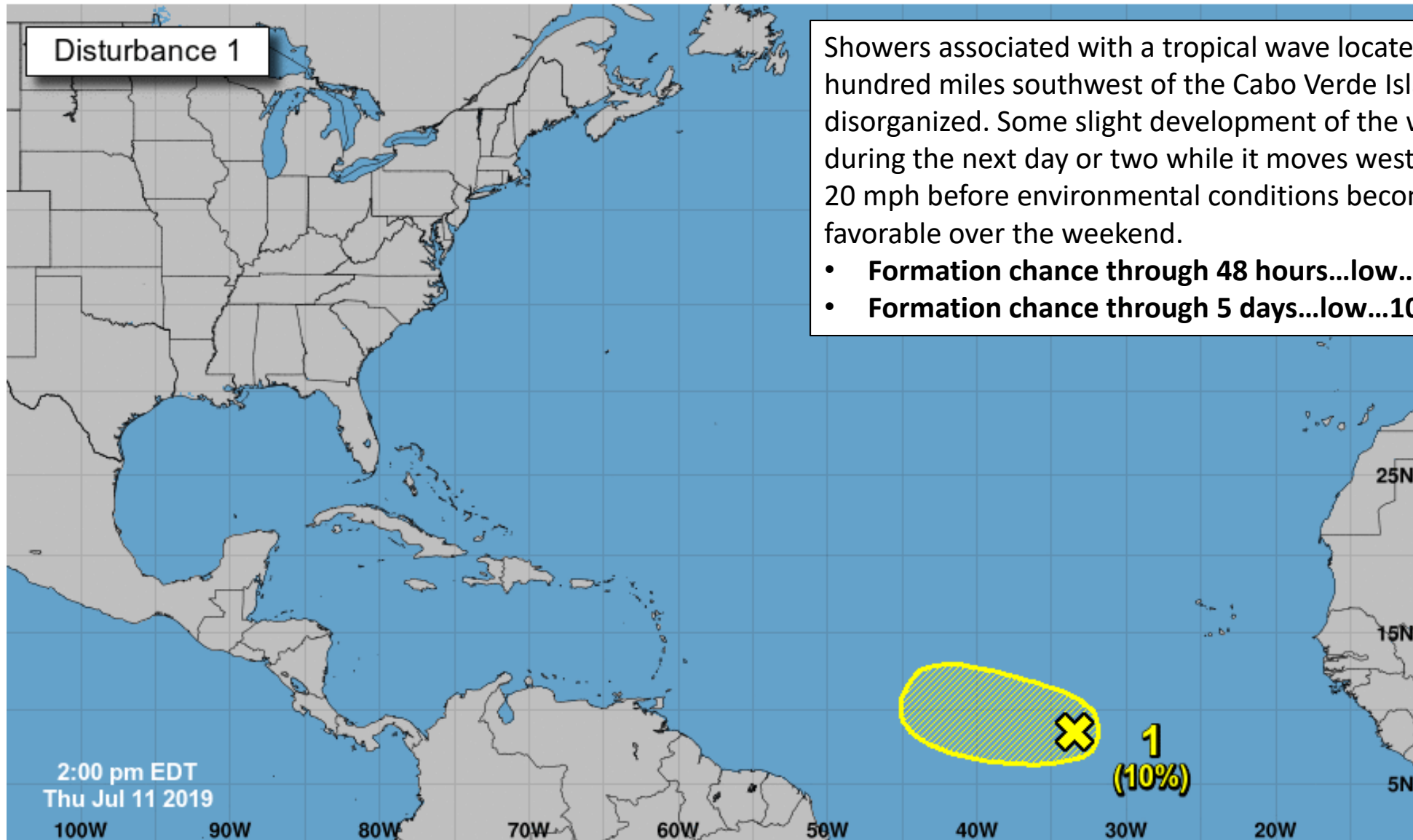
National Hurricane Center Miami, Florida



Disturbance 1

Showers associated with a tropical wave located several hundred miles southwest of the Cabo Verde Islands remain disorganized. Some slight development of the wave is possible during the next day or two while it moves westward at 15 to 20 mph before environmental conditions become less favorable over the weekend.

- **Formation chance through 48 hours...low...10 percent.**
- **Formation chance through 5 days...low...10 percent.**



2:00 pm EDT
Thu Jul 11 2019

Current Disturbances and Five-Day Cyclone Formation Chance:

✕ < 40%

✕ 40-60%

✕ > 60%

Tropical or Sub-Tropical Cyclone:

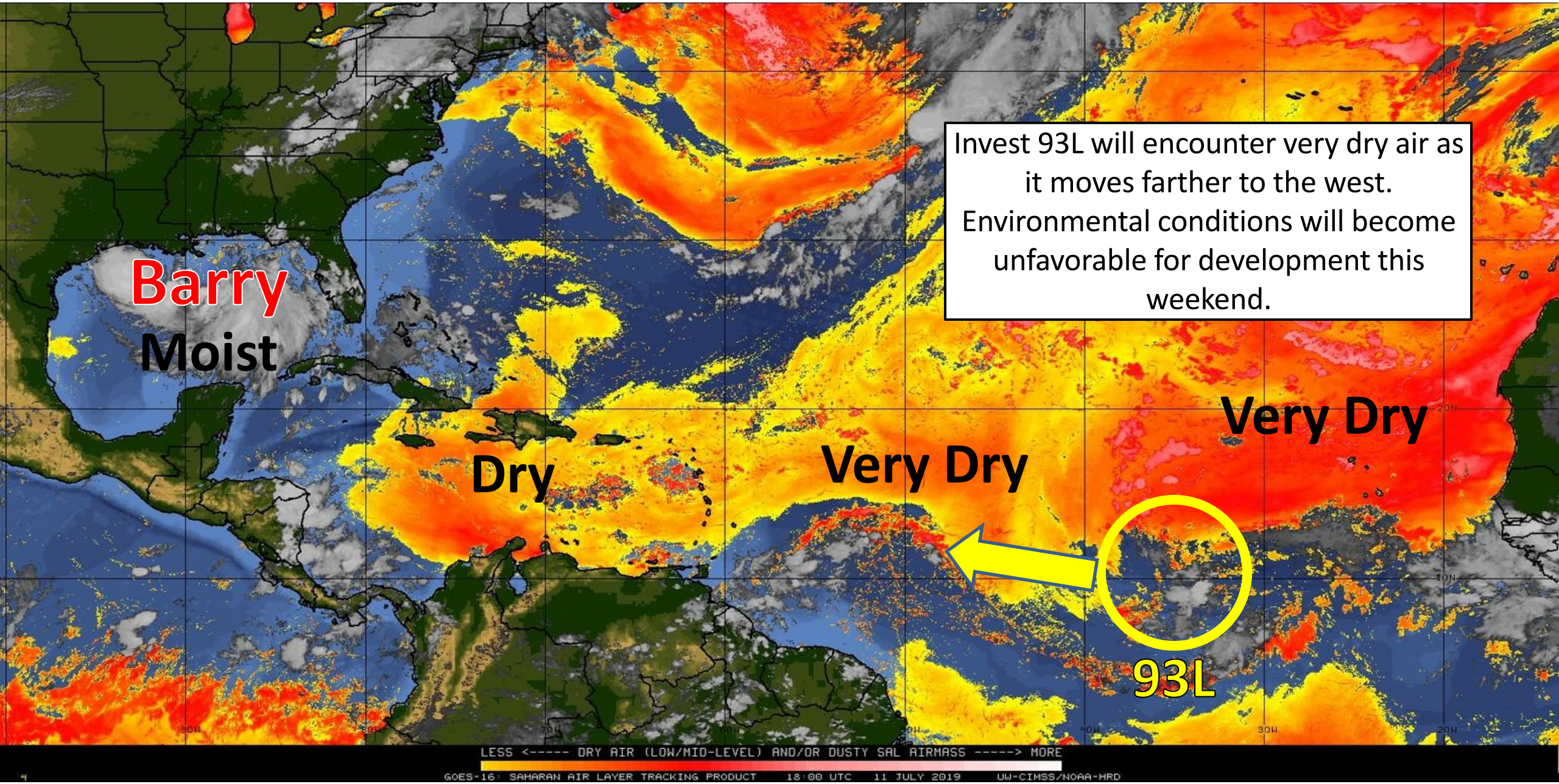
○ Depression

⤿ Storm

⤿ Hurricane

⊗ Post-Tropical Cyclone or Remnants

Dry Air & Saharan Dust



Summary

- At 5 p.m. EDT Thursday, Tropical Storm Barry was located about 175 miles southeast of Morgan City, Louisiana, or about 220 miles southwest of Pensacola.
- Maximum sustained winds have increased to near 40 mph.
- Additional strengthening and organization of the system is expected and it is forecast to become a hurricane Friday or Saturday.
- Barry continues moving slowly westward at around 5 mph, but a west-northwest motion is expected on Friday followed by a northwestward track by early Saturday.
- On this track, the center of Barry should move into southeastern or south-central Louisiana sometime Saturday. While models are in good agreement on a Louisiana landfall, there are a few models that are more to the east closer to Biloxi, Mississippi.
- Barry is likely to bring widespread impacts to the central Gulf Coast/Lower Mississippi Valley through Sunday or Monday.
- Elsewhere in the tropics, a tropical wave (designated as Invest 93L) located in the far eastern Atlantic near the Cabo Verde Islands is producing disorganized shower activity.
- While some slight development of the wave is possible during the next day or two while it moves westward, environmental conditions will become less favorable over the weekend as it approaches the Windward Islands.
- As a result, there is currently only a 10% (low) chance of this wave become a tropical system within the next 5 days.

Florida Outlook:

- There are no tropical storm, hurricane or storm surge watches in effect for Florida and Florida remains outside of the cone of error.
- Periods of heavy rain within showers and thunderstorms will be the main impact for Florida and are expected to continue each day through Monday, but higher than normal tides, high surf, and isolated tornadoes are also possible along the Panhandle coast.
- Rain:
 - Currently, cumulative rainfall totals of 2-4” are forecast for the central and western Florida Panhandle, with lesser amounts closer to 1-2” expected for the remainder of the state. However, some models are predicting the potential for higher amounts in the 5-8” are possible in some spots of the western Panhandle.
 - Flash Flood Watches are in effect for Escambia and Santa Rosa Counties. However, an isolated case of flash flooding will be possible anywhere in Florida, particularly in urban areas with brief periods of ponding of water on roadways, or where storms repeatedly move over the same location. Additional watches could be issued with any eastward shift in the forecast track.
 - The best chance of heavy rain will be Saturday and Sunday. Isolated tornadoes will be possible across the Panhandle beginning Thursday and may linger into Friday.
- Coastal Impacts:
 - Dangerous rip currents, high surf, and minor coastal flooding will be possible along the Panhandle coast over the next several days.
 - Coastal Flood Watches are in effect for Escambia, Santa Rosa and Okaloosa Counties where tides may run 1-2’ above normal and could cause minor flooding on the ocean-facing side of barrier islands during times of high tide.
 - Breaking waves of 5-8’ are expected along much of the Panhandle coast, and High Surf Advisories are in effect from Escambia County east to Gulf County.
 - Frequent life-threatening rip currents are expected to continue along the entire Florida Gulf Coast (including the western Peninsula) through at least Monday.
- Tornadoes:
 - Isolated waterspouts and/or tornadoes will be possible within the outer bands of PTC #2 on Saturday and Sunday in the far western Panhandle. The greatest threat will be further west.

The next briefing packet will be issued Friday morning. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov.



TROPICAL UPDATE



Created by:

Cameron Young, Assistant State Meteorologist

Cameron.Young@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>