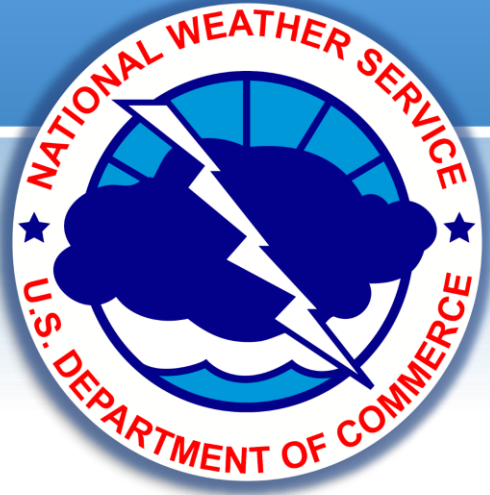
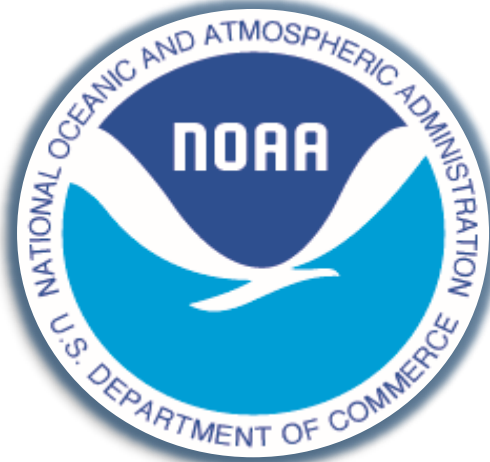


Decision Support Briefing

Southeast River Forecast Center



Decision Support Briefing



Issued:

Tuesday, February 19, 2019



Weather Ready Nation



NWSSERFC



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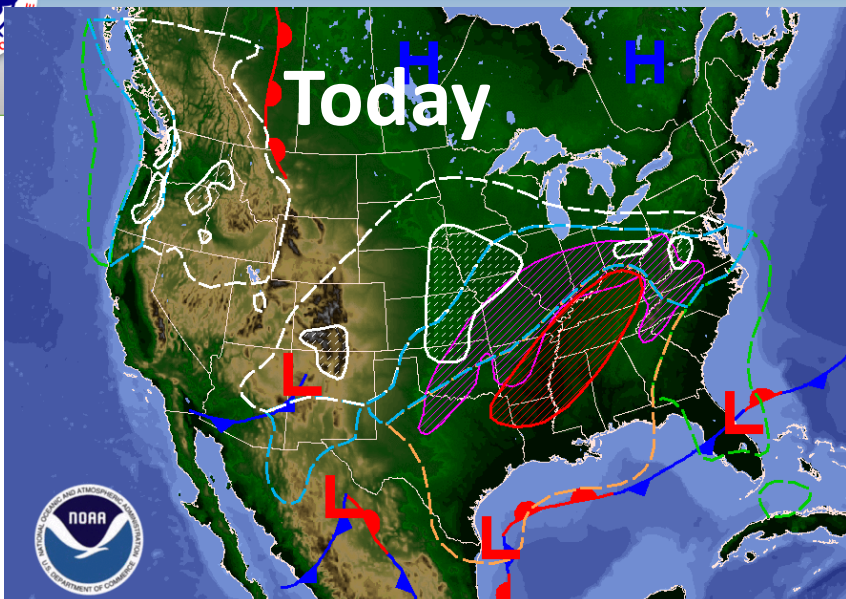


Key Points

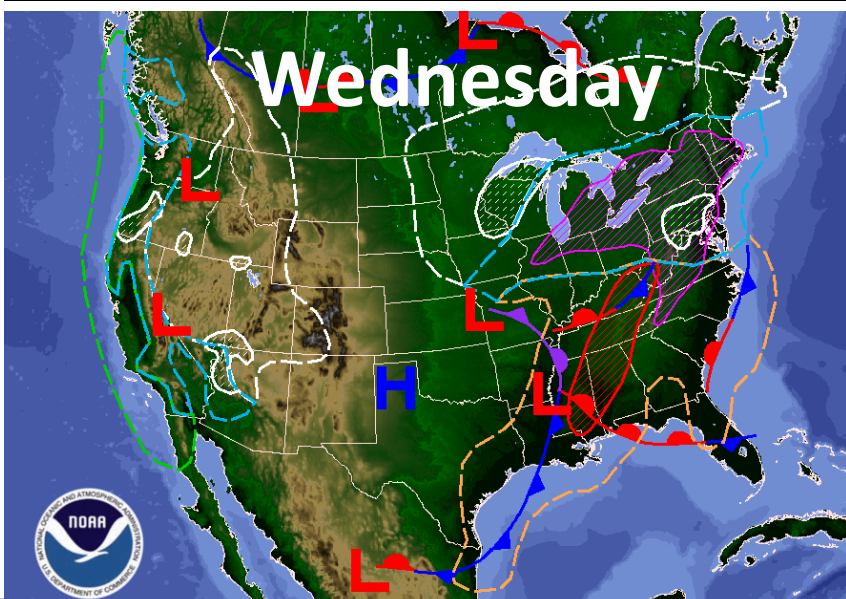
- **A complex storm system is developing over the Gulf of Mexico and will lift northward by early Wednesday setting the stage for continued rain through the week.**
- **Just a slight change to the rainfall forecast from yesterday over the 7-day period.**
- **Heavy rain still forecast for parts of Mississippi, Alabama, and northwest Georgia...and could be heavy along the Appalachian chain this week. Please check back often for changes to the forecast.**



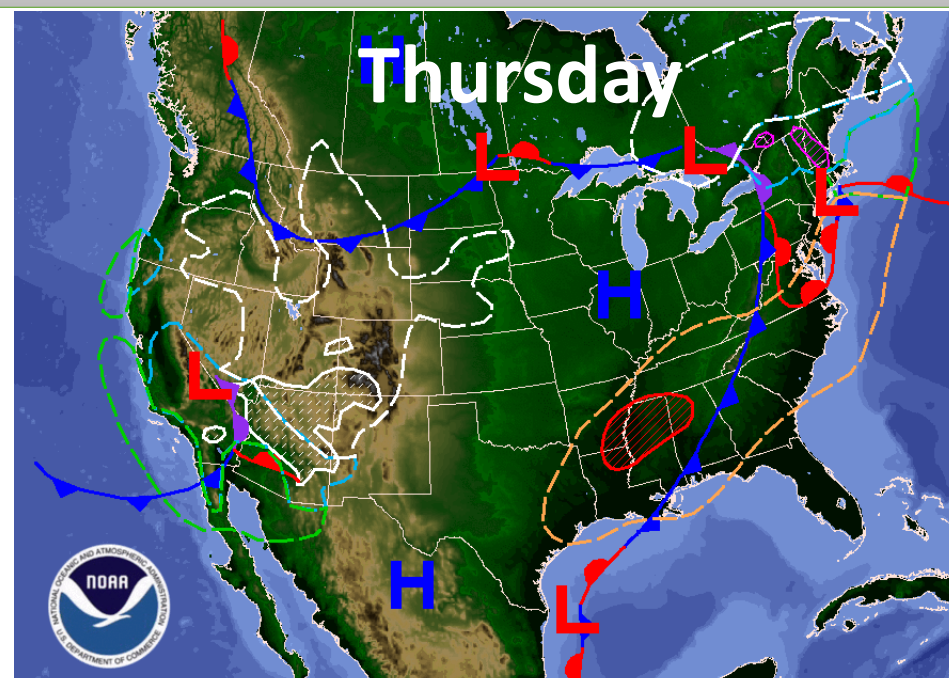
Weather Pattern Thru Thursday



Day 1 National Forecast Chart
Valid Tue, Feb 19, 2019, issued 4:50 AM EST
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by McCreynolds with WPC/SPC/NHC forecasts



Day 2 National Forecast Chart
Valid Wed, Feb 20, 2019, issued 4:53 AM EST Tue, Feb 19, 2019
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by McCreynolds with WPC/SPC/NHC forecasts

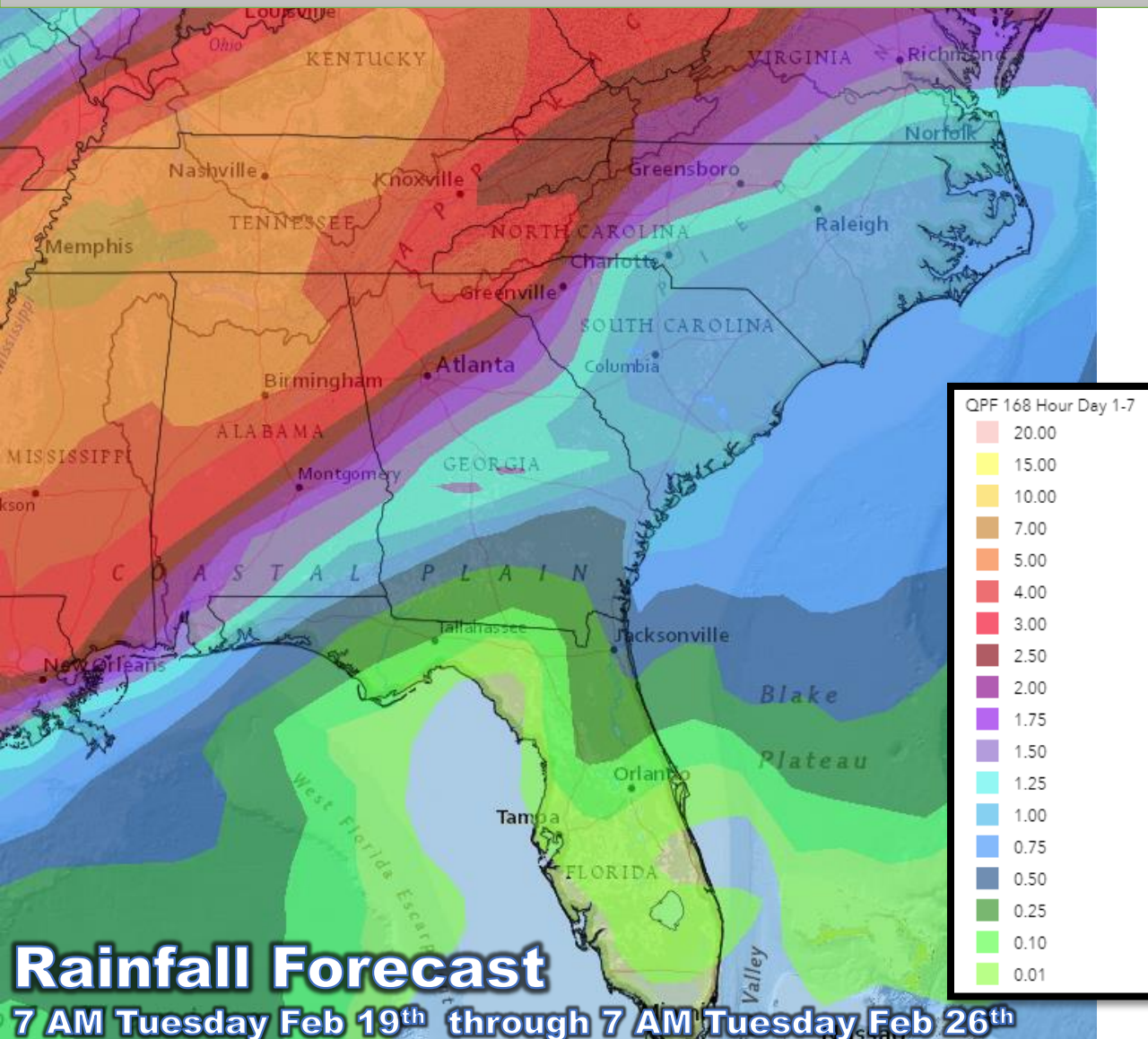


Day 3 National Forecast Chart
Valid Thu, Feb 21, 2019, issued 5:03 AM EST Tue, Feb 19, 2019
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by McCreynolds with WPC/SPC/NHC forecasts

Our complicated weather pattern keeps the southeast wet through the week. Today we have low pressure to our west and south. Wednesday shows those low pressure systems pushing east and bringing unsettled weather to the southeast U.S. A cold front pushes into the southeast on Thursday and will be the focus of rainfall in the southeast. This unsettled weather continues into the weekend.



7-Day Precipitation Forecast



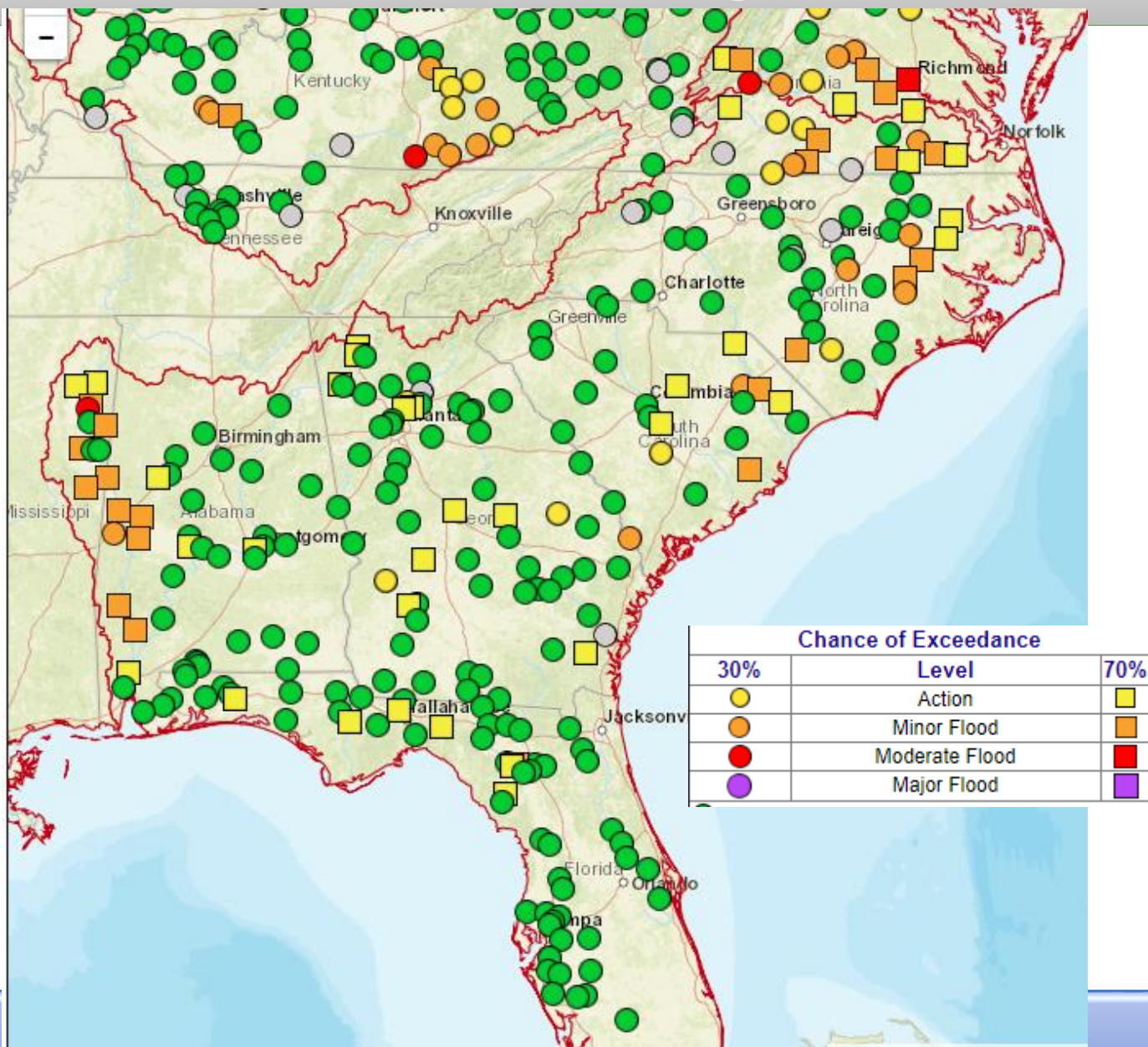
Rainfall associated with an area of low pressure and the associated fronts will impact the southeast U.S. this week. Here is the 7-day precipitation forecast ending 7 am Tuesday Feb 26th.

The heaviest rainfall is still expected along the Appalachians over the next week. The 48-hour forecast used in our routine daily is shown in a later slide.

This full 7-day rainfall is not included in the official river forecasts sent this morning. However, this rainfall is taken into account in our Meteorological Model Ensemble Forecast System (MMEFS) on the next slide.



Meteorological Model Ensemble Forecast (MMEFS)



Forecasts from MMEFS are shown here. Yesterday's and today's run look very similar... fewer ensemble forecasts are indicating moderate flooding in today's model run. These forecasts help to provide a confidence level for potential flooding. This particular model provides new output every 12 hours.

To take a closer look, here is the link to more detailed information:

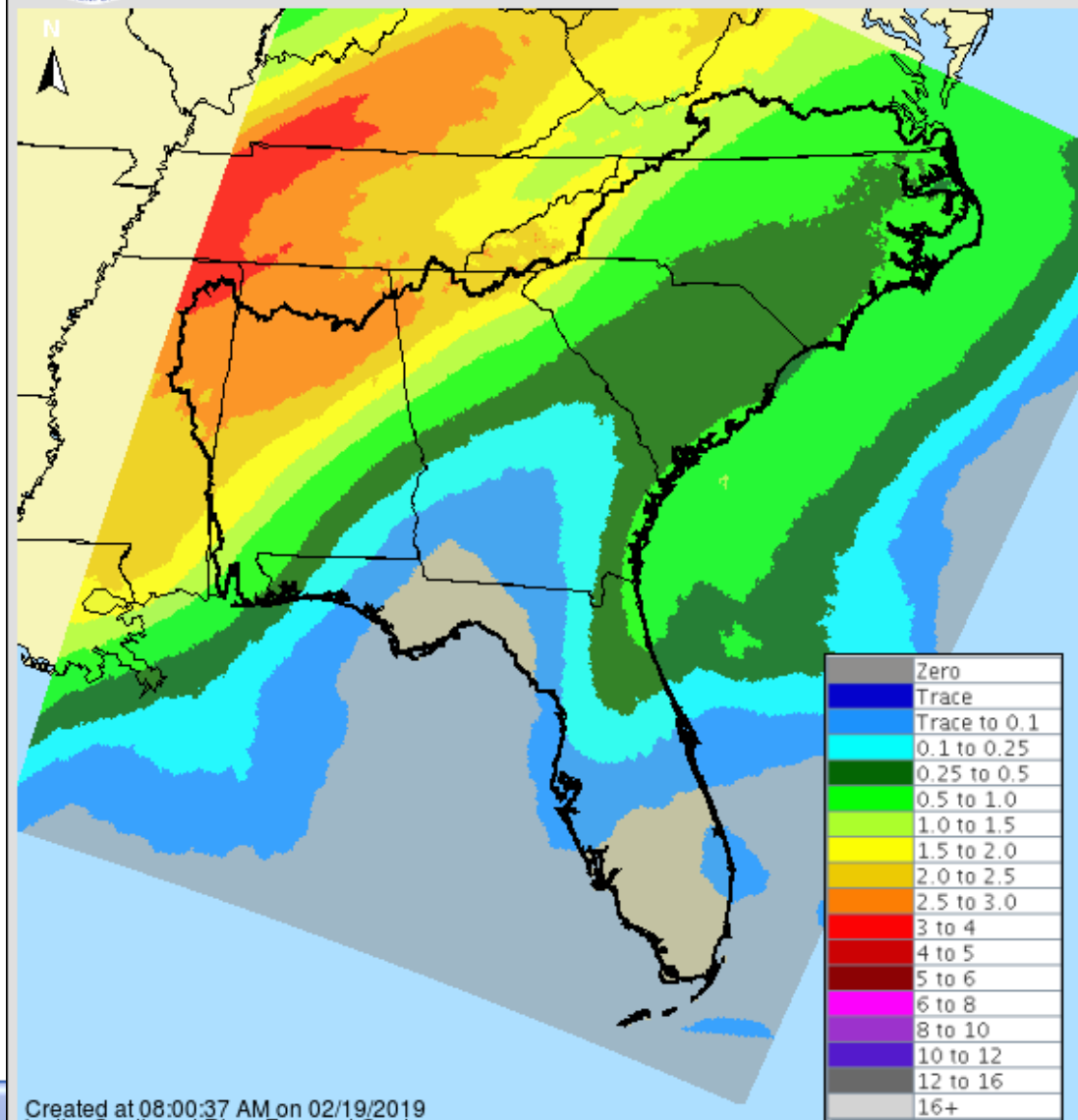
<https://www.weather.gov/erh/mmefs>

The deterministic forecasts that include 48-hours of rainfall will be shown in later slides.



48 Hr Precipitation Forecast

Valid 7AM 02/19/2019 through 7AM 02/21/2019



48-Hour SERFC Rainfall Forecast

Heavier rainfall beginning to show up in the 48-hour forecast window the SERFC inputs to the models. Northeast Mississippi, northern Alabama, and northwest Georgia are expecting the heaviest rainfall in this rainfall 48-hour period.

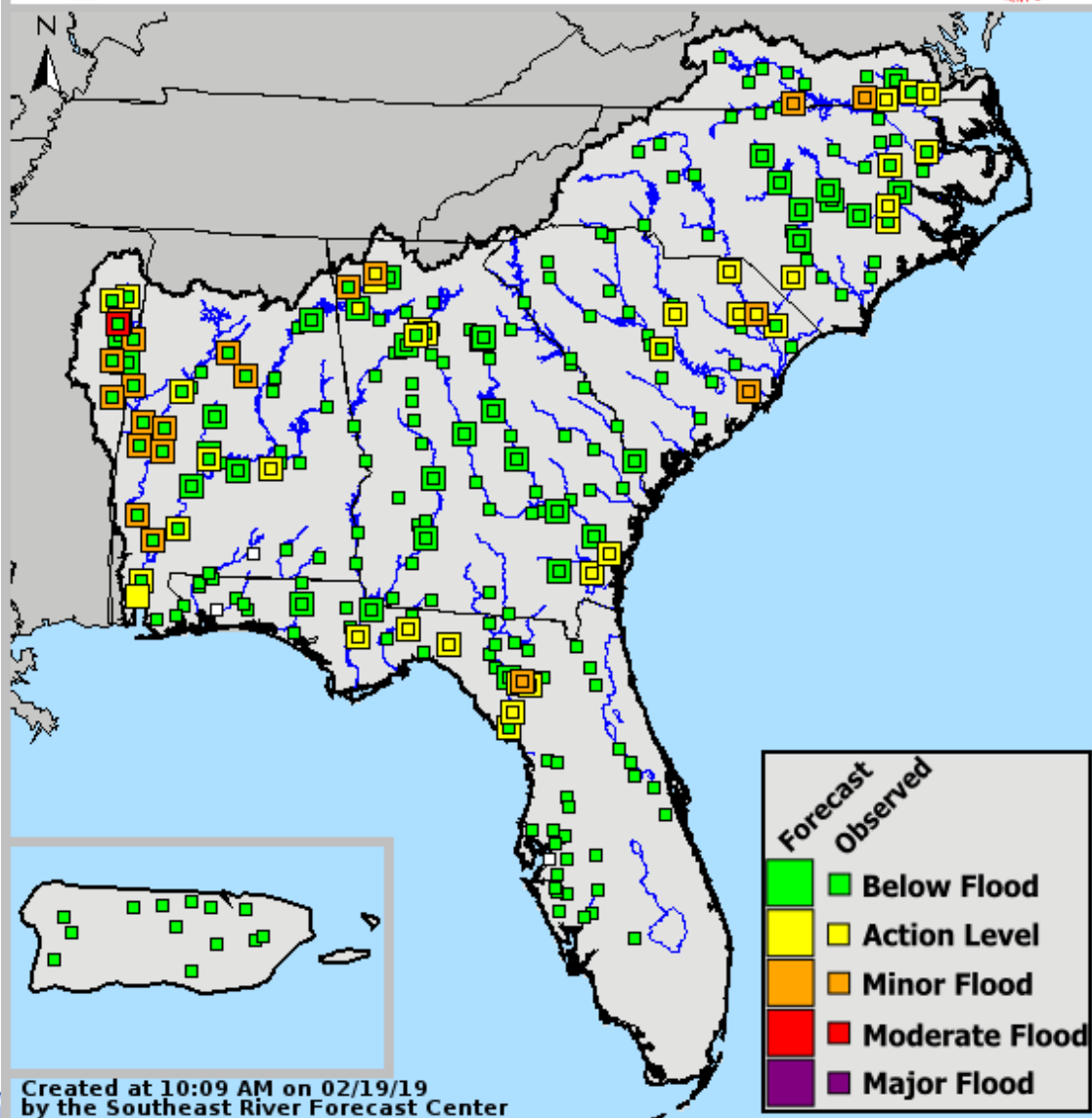
River forecasts using this input are shown in the following slide.





SERFC River Conditions

Valid: 02/19/2019 @ 10:09 AM



Created at 10:09 AM on 02/19/19 by the Southeast River Forecast Center

Latest on Current River Conditions

A number of forecast points remain in action or flood stage from past rainfall. Most of those points are along the Atlantic and Gulf coasts.

Forecasted flooding, indicated by the outside shading on the squares, shows numerous points expected to go to flood.

Please visit the SERFC home page or your local weather offices page for more details about forecasts.

<https://www.weather.gov/serfc/>

SERFC Operational Status

- At this time, SERFC remains on normal operations. Normal office hours are 6 am – 10 pm...7 days a week. Please contact us if you have any questions or concerns.
- The Decision Support Briefing will continue until further notice.

Latest River Stages and Forecasts
are available...click here!

Please send all operational correspondence to
sr-alr.rivers@noaa.gov or call the office directly.



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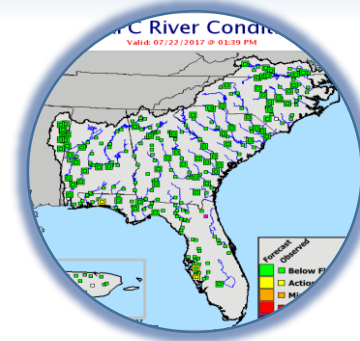


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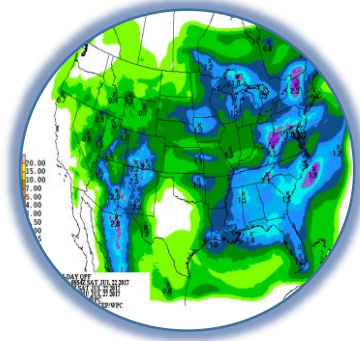
Helpful Bookmarks



[Latest Radar](#)



[SERFC Quick Brief](#)



[Latest Forecast Rainfall](#)



[MMEFS – Ensemble River Forecasts](#)

About this Briefing

- *This product has set the stage for the upcoming event. The Decision Support Briefing will continue tomorrow to update you on current conditions and changes to the forecast.*
- *These slides are intended for your use. Please feel free to share these with others. If you have any questions please email sr-alr.rivers@noaa.gov or contact your local NWS Weather Forecast Office.*
- *Remember: SERFC briefings cover freshwater flooding. For information on coastal and tidal flooding, flash floods, winds, and severe weather risks, please contact your local Weather Forecast Office.*

