



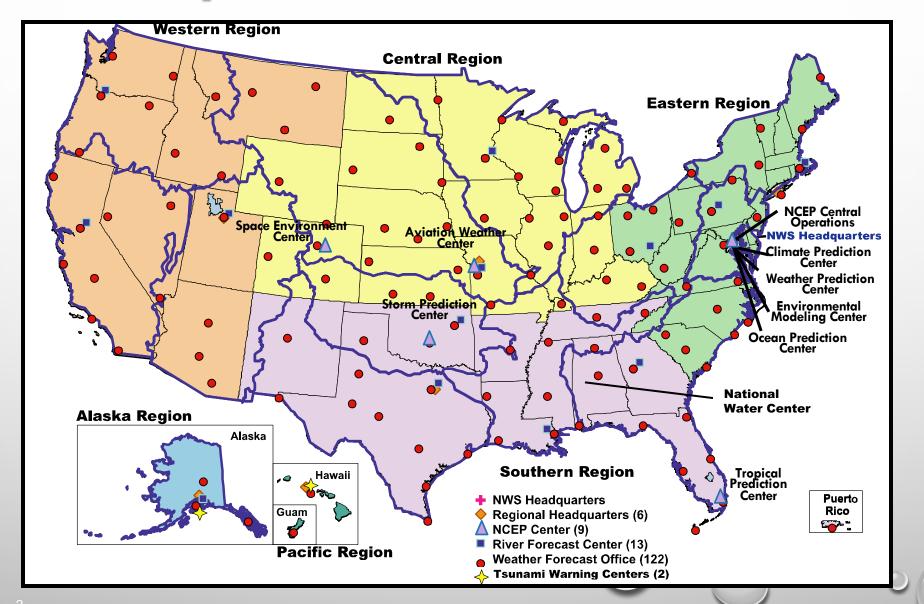
### SE DEWS MEETING

ENSEMBLE FORECASTING ESP TO HEFS....

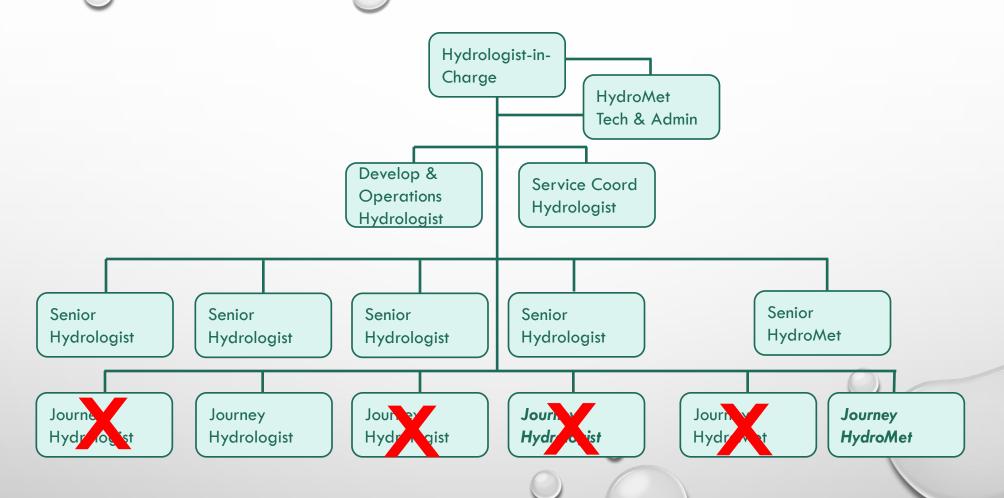
TODD HAMILL

SERVICE COORDINATION HYDROLOGIST SOUTHEAST RIVER FORECAST CENTER AUGUST 9<sup>TH</sup>, 2022

# NWS operational Infrastructure

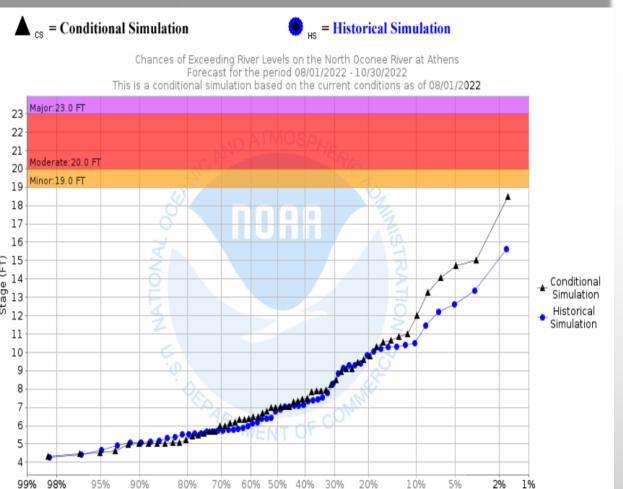


## **SERFC Staffing Model**

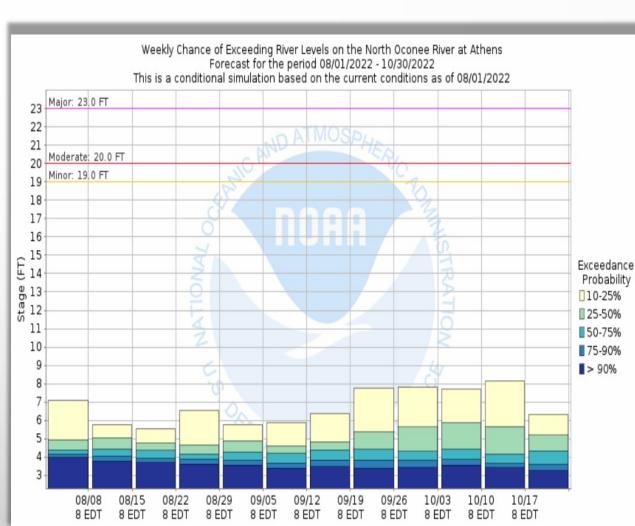


Approximately 50% Operations/50% Research, Maintenance, & Support

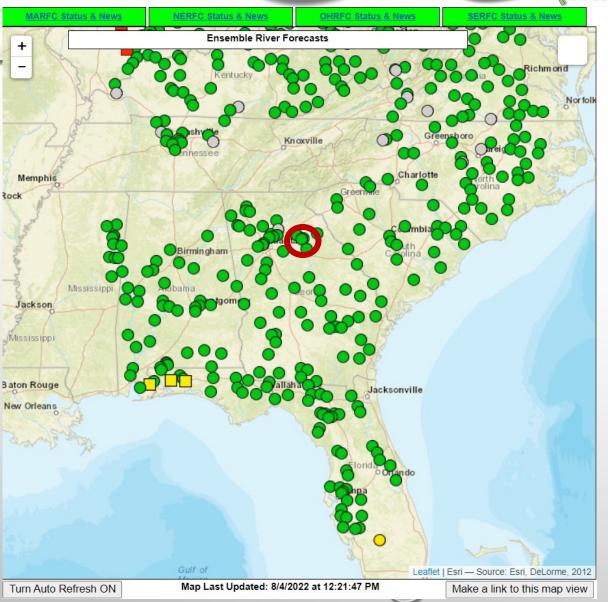
### ENSEMBLE STREAMFLOW PREDICTION (ESP)



Exceedence Probability



## Meteorological Model Ensemble Forecast System (MMEFS)



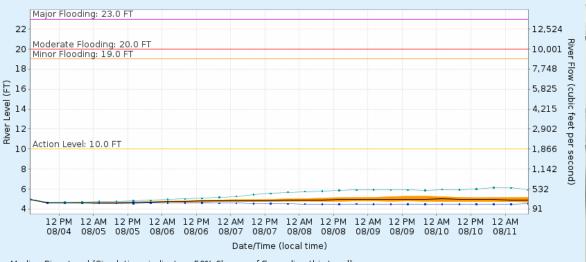
## 7 Day NAEFS Precipitation Simulations Used as Input to the River Level Simulations





7 Day NAEFS Potential River Levels
Used to Estimate the Chance of Flooding and the Range of Possible River Levels

#### North Oconee River at Athens



- Median River Level (Simulations indicate a 50% Chance of Exceeding this Level)
- -- Minimum River Level (Simulations indicate a 5% Chance of Falling Below this Level)
- Maximum River Level (Simulations indicate a 5% Chance of Exceeding this Level)
- More Likely Range (Simulations indicate a 40% chance river levels will fall within this range)

08/04/2022 00 UTC NAEFS Model

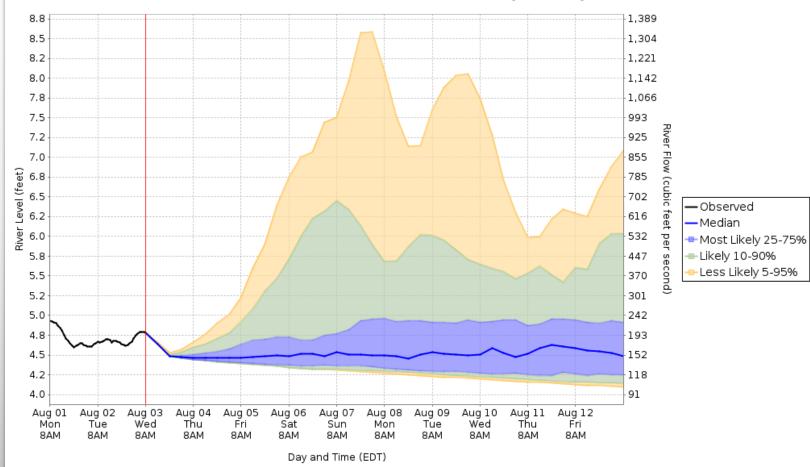
### **HEFS OUTPUT**

#### 10 Day River Level Probabilities

Used to Estimate the Range of Possible River Levels [without ENSPOST (Experimental)]

Caution: Official forecast may be updated after this graph is generated. For the latest official forecast, go to http://water.weather.gov/ahps

#### North Oconee River at Athens (NOCG1)



Model runtime: 08:00 AM EDT Aug 03 2022 Southeast River Forecast Center

## THANK YOU!

## TODD HAMILL

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