

# SERFC's Hurricane Ian Experience

John Schmidt - Southeast River Forecast Center

SECART All-Hazards Workshop May 20, 2024 Jacksonville, FL





# Daily Flood Briefs

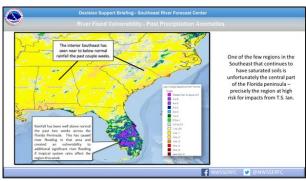


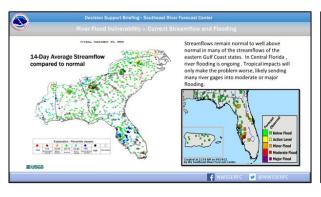


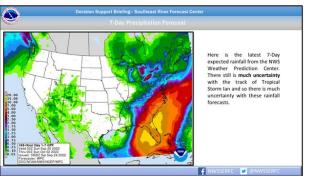
Potential for moderate to major river flooding across much of Florida based on current guidance, though considerable uncertainty exists in lan's forecast track at this point.

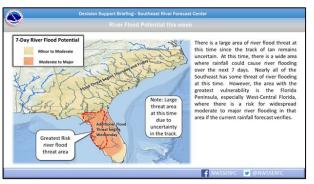
**f** NWSSERFC **y** @NWSSERFC







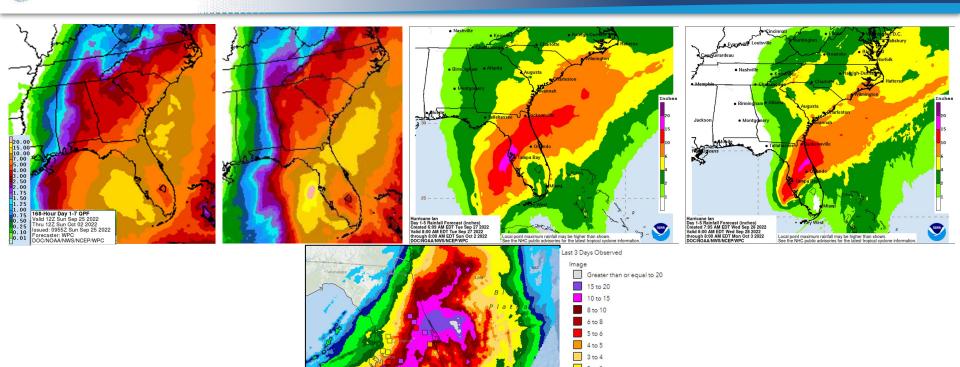




Issued September 24, 2022



# Rainfall Forecast (QPF) Progression

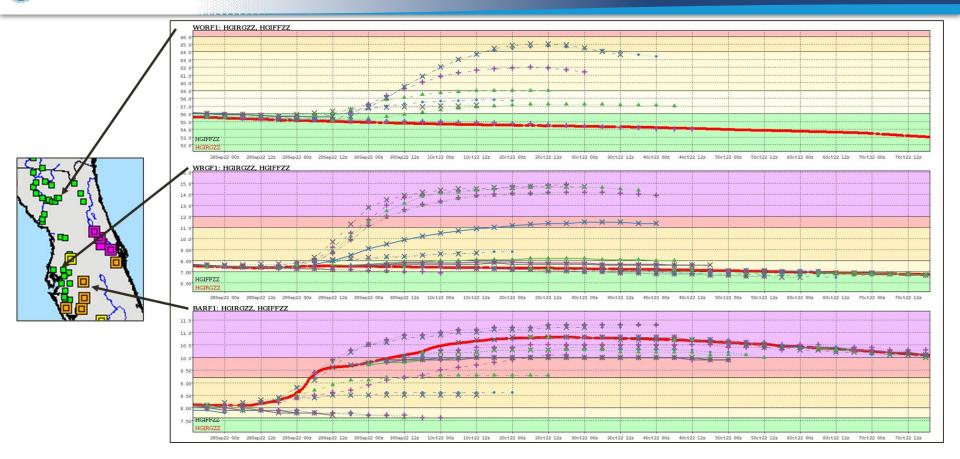


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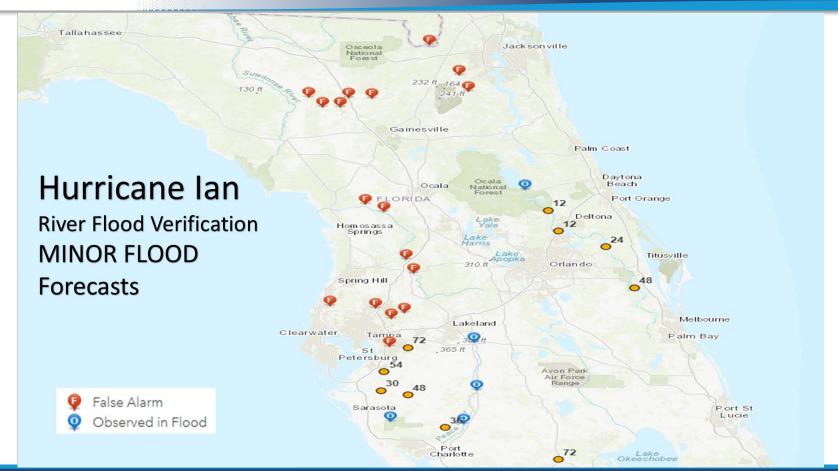
0.01 to 0.1
Less than 0.01
Missing Data



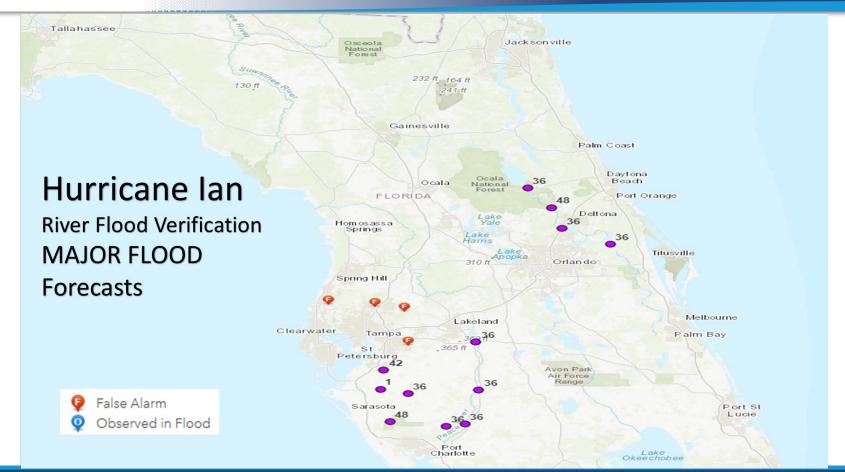
# 48 Hour QPF River Forecast Impact



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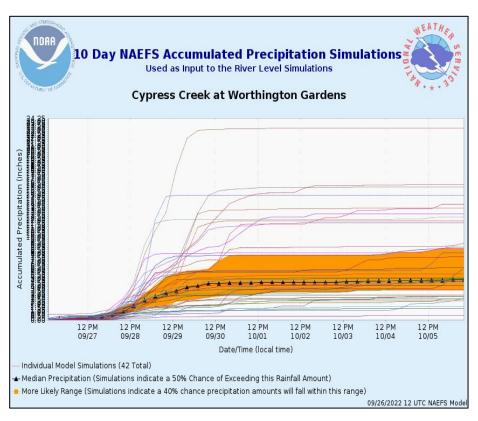


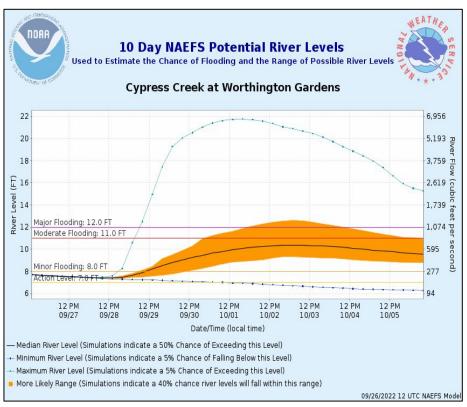
# 48 Hour QPF River Forecast Impact





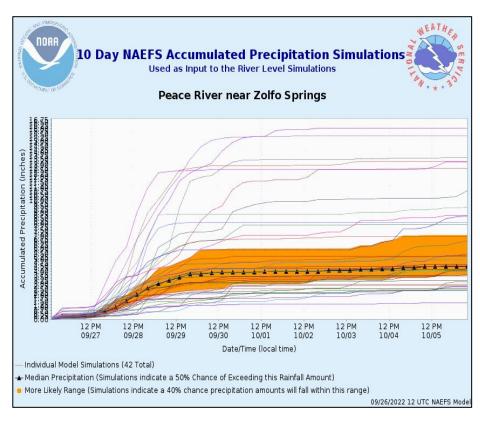
### Ensemble/Probabilistic Information

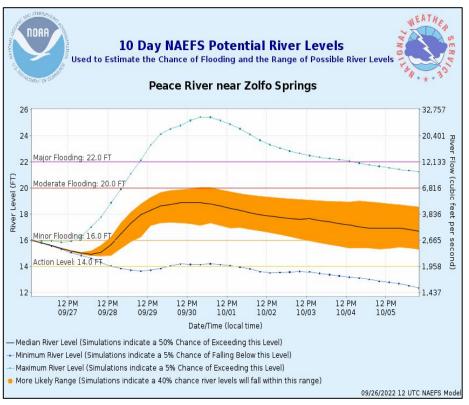






## Ensemble/Probabilistic Information



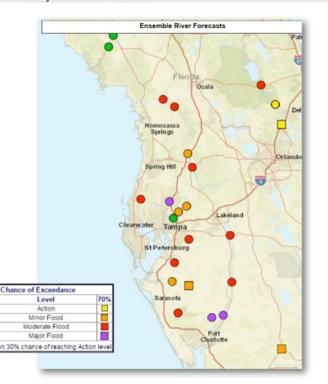




# How can we interpret ensembles during hurricanes?

# Potential for River Flooding Next 7 Days

Major Hurricane Ian



 Models have various forecast solutions based on where the heavy rain falls



 Moderate to Major flooding is expected to develop on all area rivers by the end of the week



 Urban, small stream, and overland flooding can happen quickly and catch people unaware



Last Updated: 9/27/2022 5:21 AM

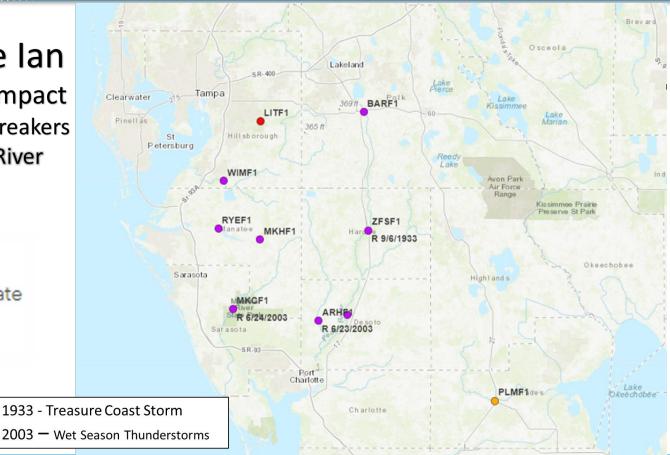
National Weather Service - Tampa Bay



# Record Floods and Rating Curves

Hurricane lan
River Flood Impact
With Record-Breakers
Tampa/Peace River

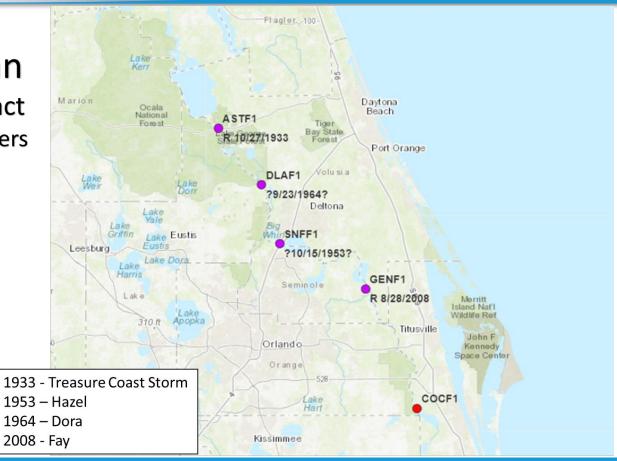
- Major
- Moderate
- Minor



# Record Floods and Rating Curves

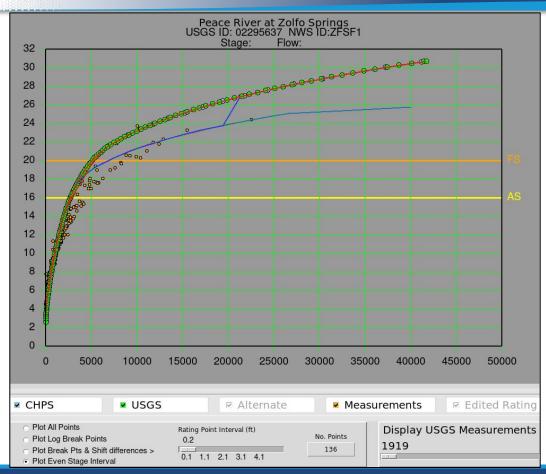
# Hurricane Ian River Flood Impact With Record-Breakers St Johns River

- Major
- Moderate
- Minor





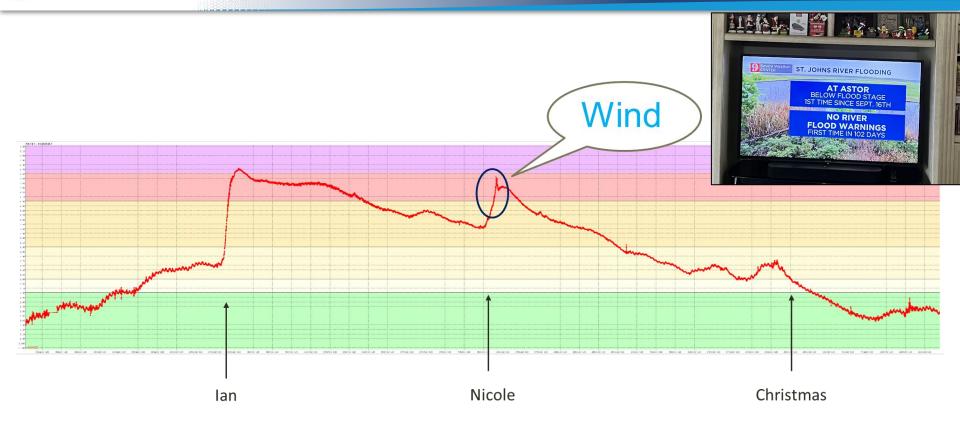
# Record Floods and Rating Curves



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# St Johns River Flooding









# NWS Flood Inundation Mapping Services

Disclaimer: This map shows the flood extent based on a river crest of 9.0feet. This is an approximate-based FIM which should be used more conservatively.

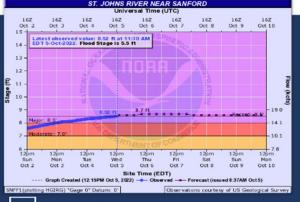
### St Johns River at Sanford (SNFF1)

Forecast Crest Height: 8.7 feet Map Height Shown: 9.0 feet

FIM Source: Local NWS Map (FESM Model)
FIM Type: Static (depth not depicted)

FIM Creation Time: 10/5/2022 12:30 pm ET

ST. JOHNS RIVER NEAR SANFORD
Universal Time (UTC)



FOR OFFICIAL USE ONLY Map shows flood extent Depth is not provided Water may overwash into lakefront areas Potential for significant Wind speed and direction flooding on may enhance areas of Stone Island flooding along the river. 10/5/22 @ 12:30 PM

For the latest observations: St Johns River at Sanford