ENHANCING FLOOD RESILIENCE: A REAL-TIME FLOOD FORECASTING MODEL FOR THE UPPER ST. JOHNS RIVER BASIN

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In response to the rising challenges posed by increased flood frequency and severity within the Upper St. Johns River Basins, the St. Johns River Water Management District has developed an ICPR4 real-time flood forecasting model. This model covers a significant portion of the Upper St. Johns River Basin and provides real-time forecasts, offering an invaluable window of up to 10 days, for flows and stages at both regional and neighborhood scales. These outputs will empower local and regional authorities with timely and precise information that can be utilized to expedite emergency response and mitigate potential flooding impacts. Furthermore, the model's versatility extends to broader resiliency planning, enabling applications such as regional flood assessment and optimized structure operation.

PRESENTER BIO: Dr. Yanbing Jia is the Bureau Chief of the Bureau of Watershed Management and Modeling at the St. Johns River Water Management District. He leads a dedicated team responsible for developing hydrologic models to support the District's water supply planning, water use permitting, Minimum Flows and Levels assessment, and the development of flood control projects. He holds a Ph.D. in Civil Engineering from the University of Virginia and is a registered Professional Engineer in Florida.