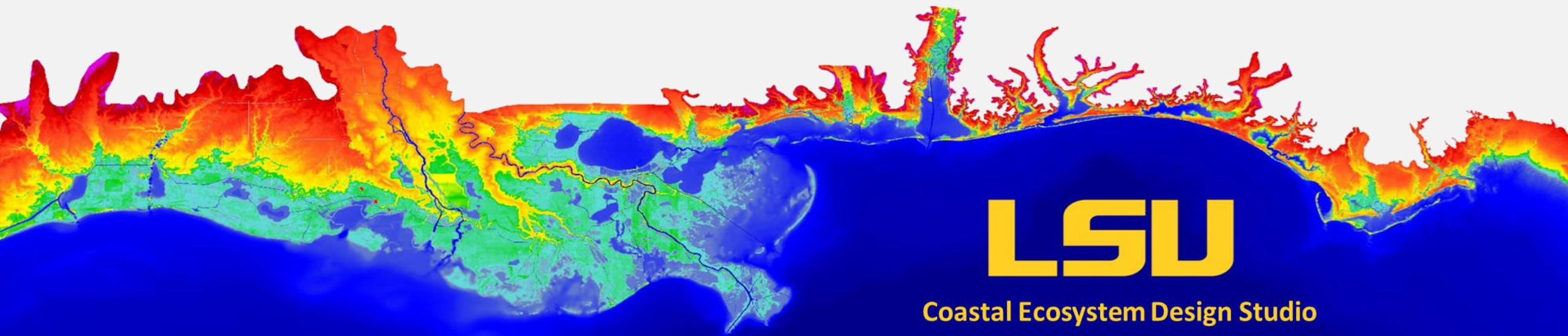


# ADCIRC Modeling of Hydrodynamics in the Morganza-to-Gulf Levee System

Peter Bacopoulos, Linoj Vijayan and Christopher E. Kees



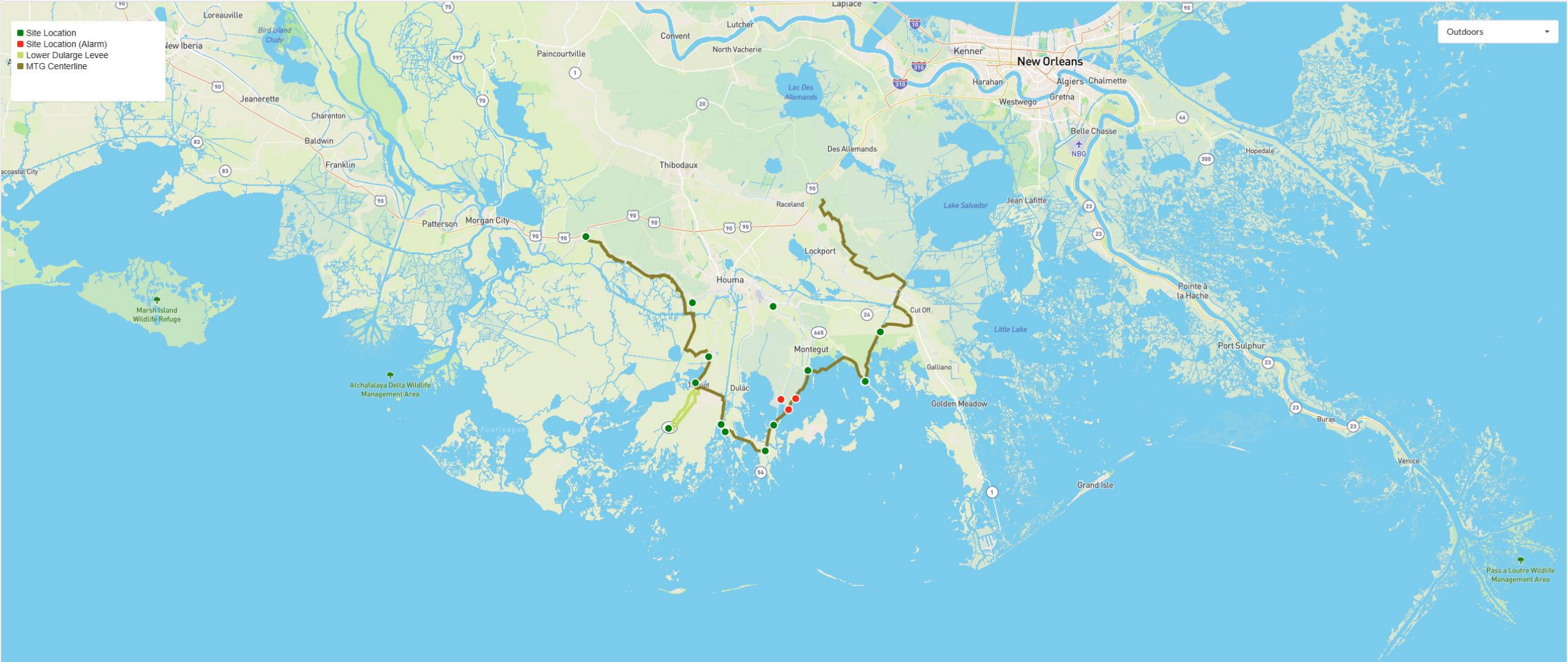
**LSU**

Coastal Ecosystem Design Studio

# ACTIONS project

- Anticipating Threats to Natural Systems (**ACTIONS**)
- Cooperation with USACE ERDC
- The project aim: To advance predictive models and tools for coastal LA
- Interdisciplinary framework with interconnected sciences/models/tools
  - Hydrodynamics, ecology, morphology, soil strength, design and engineering
- The project links with a ‘sister’ project (**DEEDS**) to provide models/tools...
  - In support of Developing Engineering Practices for Ecosystem Design Solutions
- A stakeholder of the project is the Terrebonne Levee Conservation District
  - TLCD implements measurements at various canals and floodgates  
(<https://data.tlcd.org>)





 <https://data.tlcd.org/app/home>

*Data page displayed here for 20:30CST May 6, 2025  
(with some locations in alarm state)*



**US Army Corps  
of Engineers®**  
Engineer Research and  
Development Center

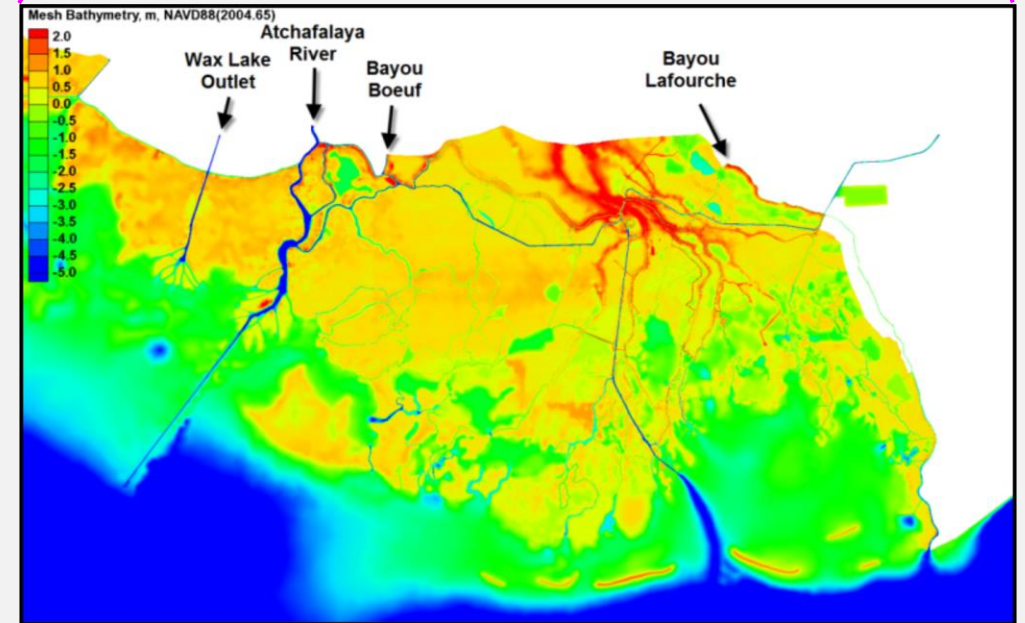
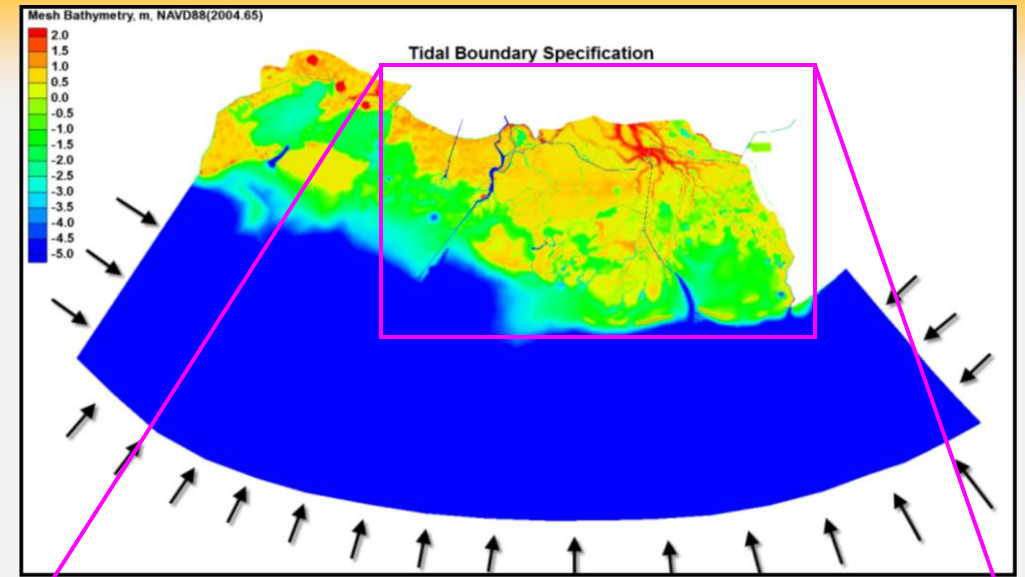
**ERDC**  
INNOVATIVE SOLUTIONS  
for a safer, better world

## Hydrodynamic and Salinity Transport Modeling of the Morganza to the Gulf of Mexico Study Area

Tate O. McAlpin, Joseph V. Letter, Jr., Gaurav Savant, and  
Fulton C. Carson

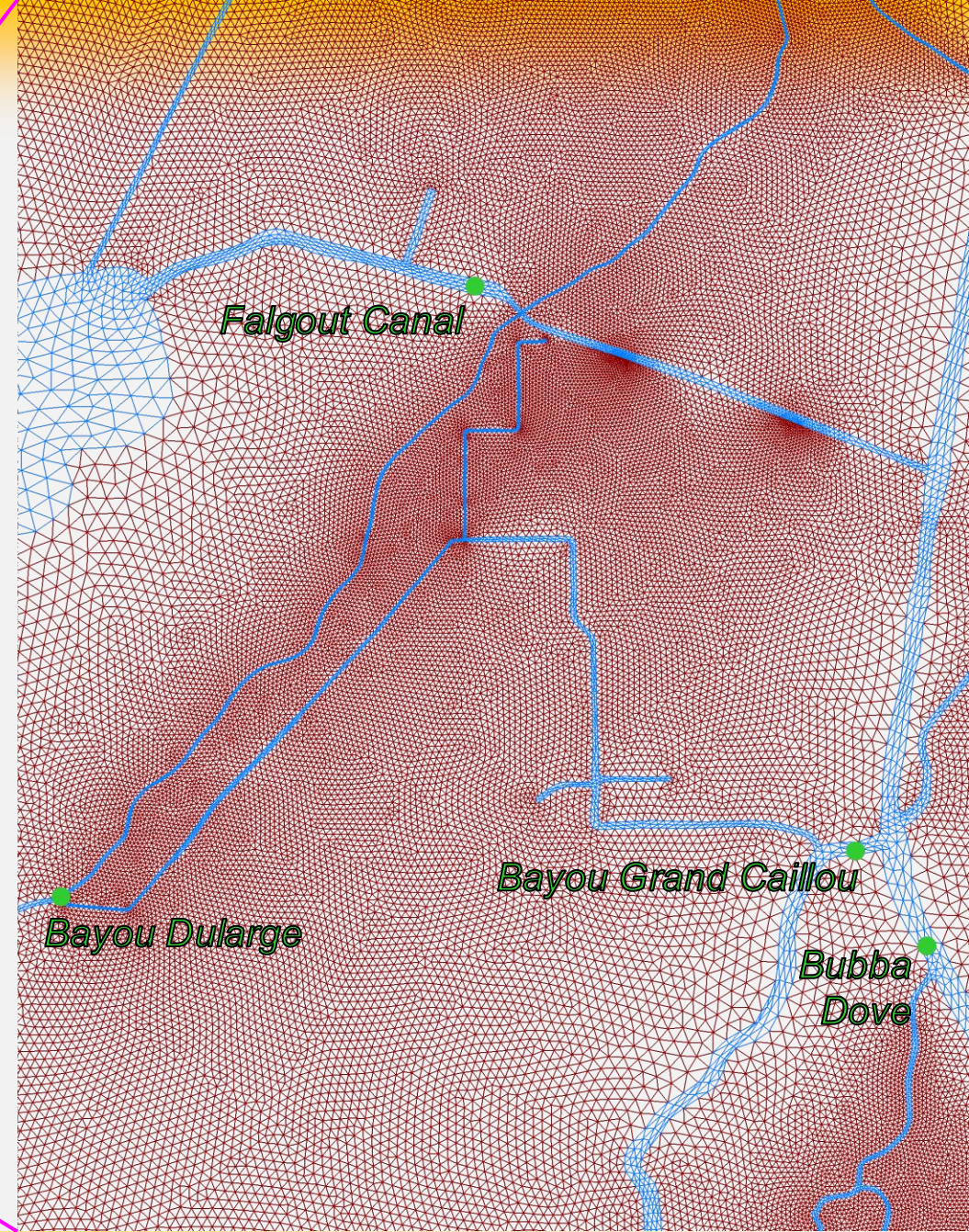
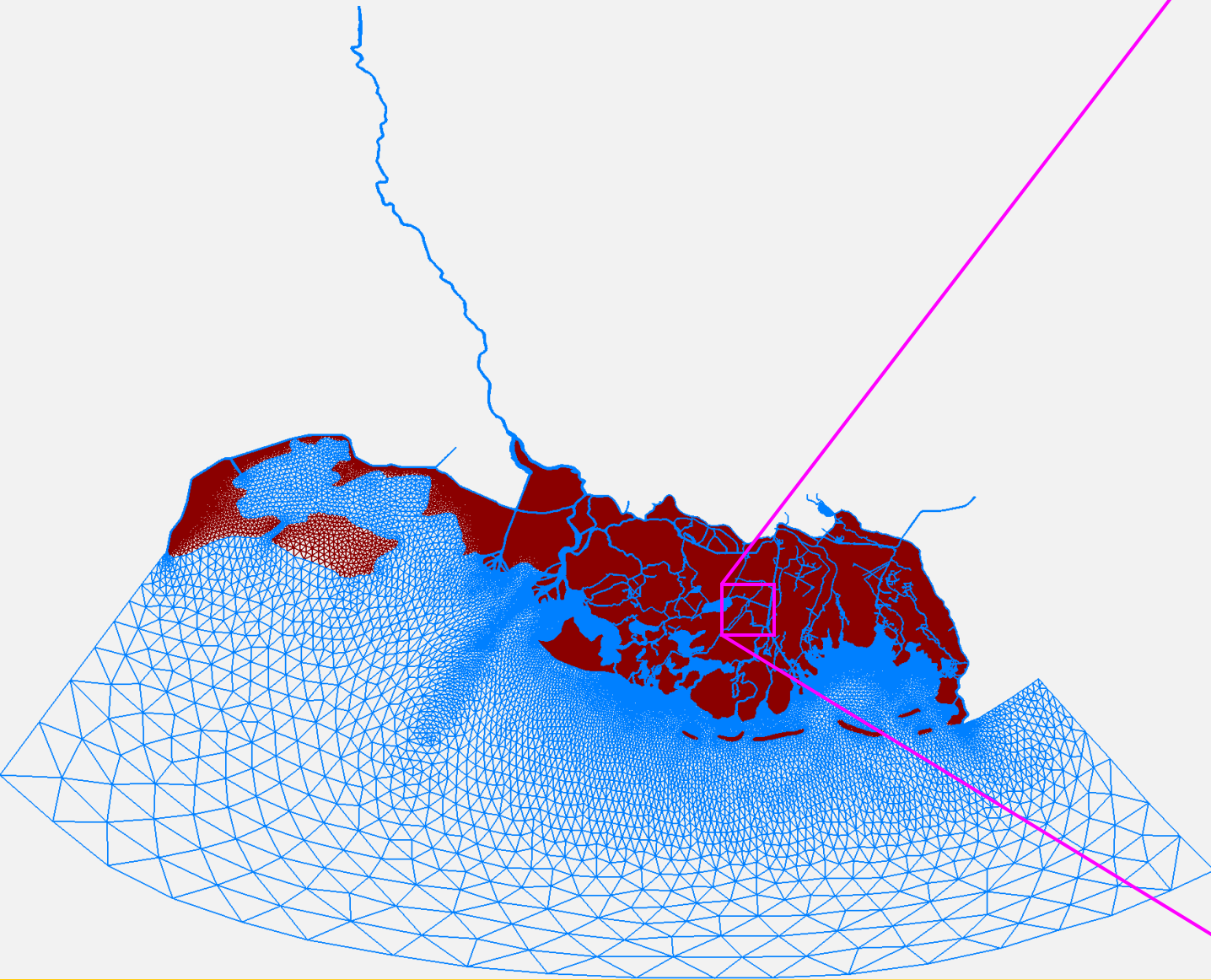
August 2013

Approved for public release; distribution is unlimited.





# ADCIRC model configuration





# ADCIRC results at TLCD gauging stations

