



# Mississippi Coastal Map Revision Project

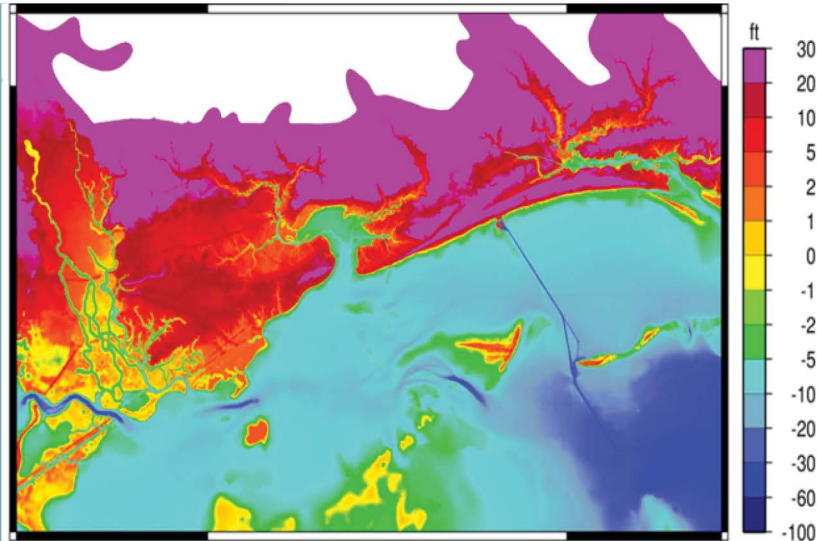
## Hancock, Harrison, and Jackson Counties

### PROJECT UPDATE

**1** It's been 13 years since Hurricane Katrina and 11 years since the last FEMA Study, and the landscape of the MS Gulf Coast has changed tremendously.



**5** Advanced technologies in storm modeling are being utilized to predict storm surge and flooding. These models employ the most current topographic and bathymetric data as the basis of the digital elevation model and the foundation for which the models are developed.



**2** SMPDD has hired a robust team of engineers and scientists to perform a new Coastal Analysis and develop a Physical Map Revision for the MS Gulf Coast.



#### MISSISSIPPI COASTAL MAP REVISION PROJECT

#### Intermediate Data Submittal #1

Introduction to IDS#1 Report Sections

February 2019

Prepared for SMPDD by Michael Baker International and Arcadis U.S., Inc.



**7** The engineering team is moving forward to IDS#2. This submittal will begin the calibration and the execution of the storm models. This phase of the project will define the climatological data upon which the historical and synthetic storms are based and calibrate the models against previous storms.



**3** The PMR is leveraging knowledge and experience gained from the development of the South Atlantic Coastal Study prepared by the Corp of Engineers – ERDC.

**4** The new study is utilizing 288 storm scenarios, as opposed to 152 storms used in the previous study, thus creating a more comprehensive model to more accurately identify the potential for storm surge during hurricane events.



**6** For the past several months, the engineering team has been in the process of developing the necessary documentation for FEMA, known as Intermediate Data Submittal (IDS) #1. The package was prepared in strict adherence to FEMA guidance and provides the Technical Approach, Data Collection, Validation Storm Selection, Study Area Characteristics and Hydrodynamic Model Development for the project.

**8** This entire study process is being closely coordinated with FEMA Region IV to ensure the resultant mapping can be smoothly incorporated into the National Flood Hazard Layer and illustrate the flood risks for the Mississippi Gulf Coast.

