

FEMA

## HURRICANE KATRINA SURGE INUNDATION and ADVISORY BASE FLOOD ELEVATION MAP Hancock County, MS

Date of Event: August 29, 2005

Date of Map: March 15, 2006

Map Number: MS-F10

Estimated Katrina Surge Elevations<sup>1,2</sup>

24-26 ft

Advisory Base Flood Elevations<sup>2,3</sup>

Open Coast: 20-30 ft

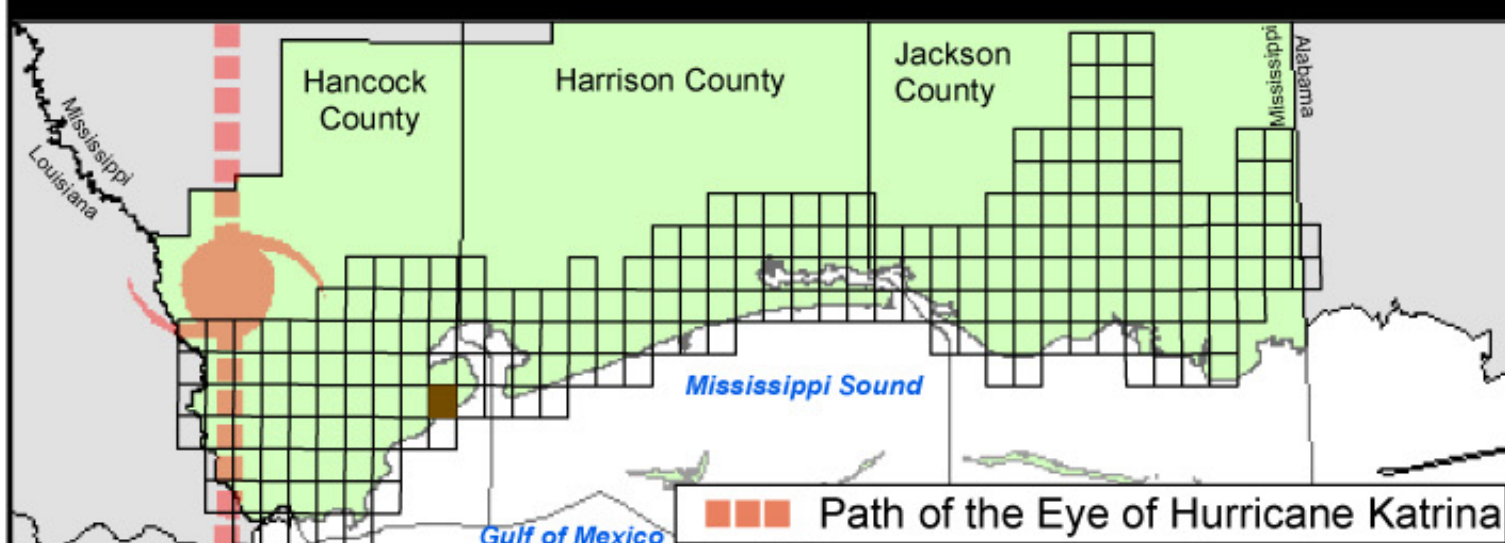
Back Bay: 18-27 ft

Effective Base Flood Elevations<sup>2</sup>

VE Zone: 14-19 ft

AE Zone: 11-13 ft

### OVERVIEW MAP



#### Data Sources:

Aerial Imagery: USDA, National Agriculture Imagery Program, 2004

Flood Zones and Elevations: FEMA Flood Insurance Rate Maps (Hancock Co., MS, [1983-1992]; Harrison Co., MS [1984-2002]; Jackson Co. [1984-1993]). Elevations converted from NGVD29 to NAVD88.

High Water Marks: FEMA (Identified and surveyed Sept-Oct., 2005)

Storm Track: NOAA National Weather Service

For more information on these advisory maps, please see [www.fema.gov/hazards/floods/recoverydata/katrina\\_index.shtml](http://www.fema.gov/hazards/floods/recoverydata/katrina_index.shtml)



0 500 1,000 1,500 2,000  
Feet

### LEGEND

- |  |  |  |  |                                    |
|--|--|--|--|------------------------------------|
|  | State Boundary                                   |  | County Boundary                                  | <b>Flood Advisory-Related Data</b> |
|  | Preliminary Indoor High Water Mark <sup>2</sup>  |  | ABFE Contours (1-foot intervals) <sup>3</sup>    |                                    |
|  | Preliminary Outdoor High Water Mark <sup>2</sup> |  | ABFE Inland Limit <sup>3</sup>                   |                                    |
|  | Preliminary Debris High Water Mark <sup>2</sup>  |  | Approx. Limit of 1.5-foot Wave Zone <sup>3</sup> |                                    |
|  | Limit of Katrina Surge Inundation                |  | Approx. Limit of 3-foot Wave Zone <sup>3</sup>   |                                    |
|  |  |  | Open Coast/Back Bay Boundary                     |                                    |
|  |  |  | Limit of ABFEs                                   |                                    |

#### Notes:

<sup>1</sup> Range estimated from surveyed, surge-only HWMs. Local wave effects (wave heights and wave runup) are not included in these elevations.

<sup>2</sup> Measured in feet relative to the North American Vertical Datum of 1988.

<sup>3</sup> Post-Hurricane Katrina Advisory Base Flood Elevations (ABFEs) are based on updated statistical information to develop the estimated 1%-annual-chance (100-year) stillwater elevations (SWELs) plus estimated wave effects. For Hancock County, MS, the advisory SWEL is 20 ft for the Gulf Coast and 18 ft for back-bay areas. See equation below to calculate the ABFE with wave effects for a given site:

ABFE = Advisory SWEL + Wave Height,  
where Wave Height =  $\frac{1}{2}$  Stillwater Flooding Depth (depth measured relative to the ground)

MAPS FOR ADVISORY PURPOSES ONLY - NOT FOR INSURANCE RATING PURPOSES

For insurance rating purposes, refer to the currently effective Flood Insurance Rate Map (FIRM), available from your local government or the FEMA Map Service Center (1-800-358-9616/ <http://msc.fema.gov>)