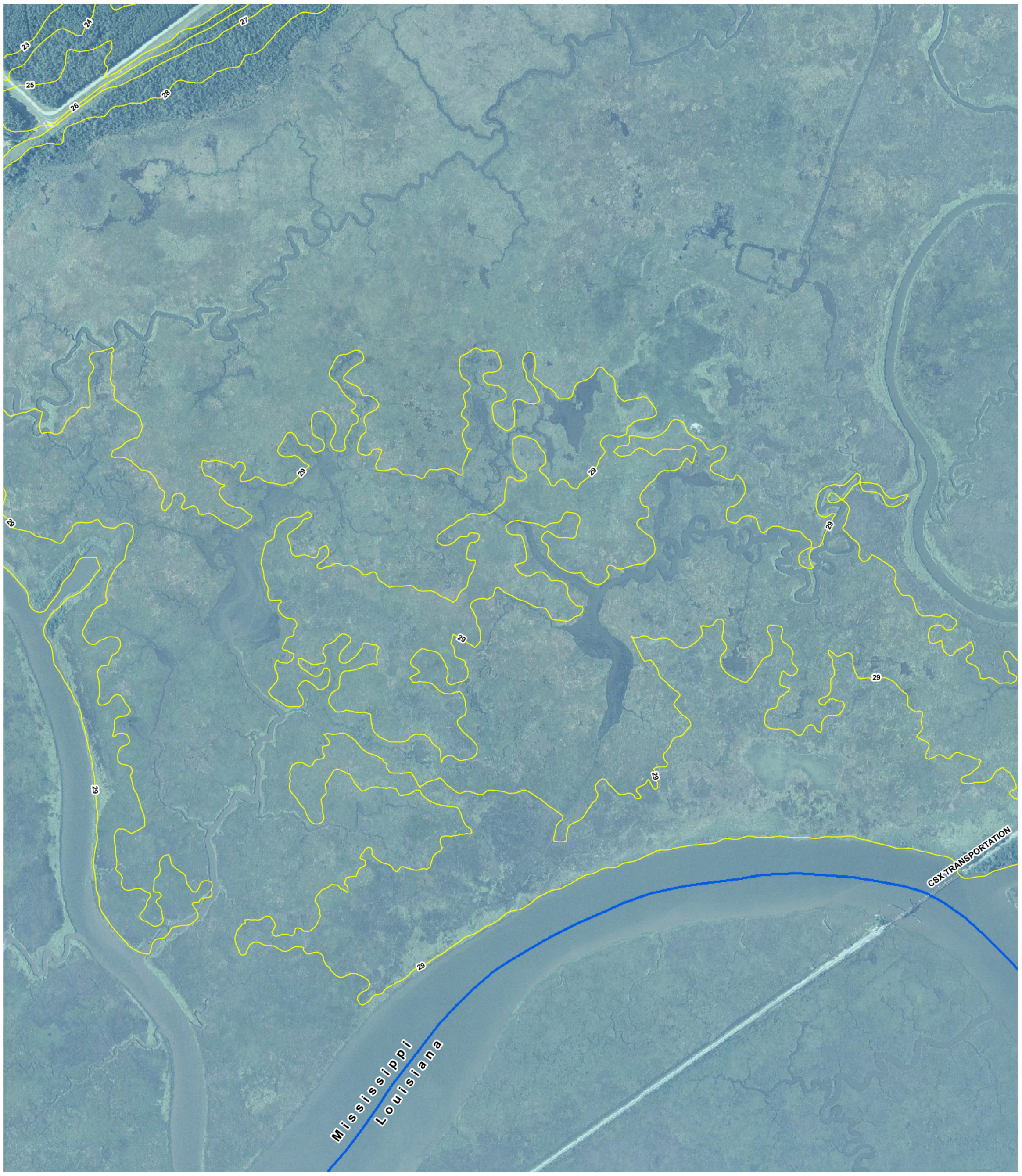



# HURRICANE KATRINA SURGE INUNDATION and ADVISORY BASE FLOOD ELEVATION MAP Hancock County, MS

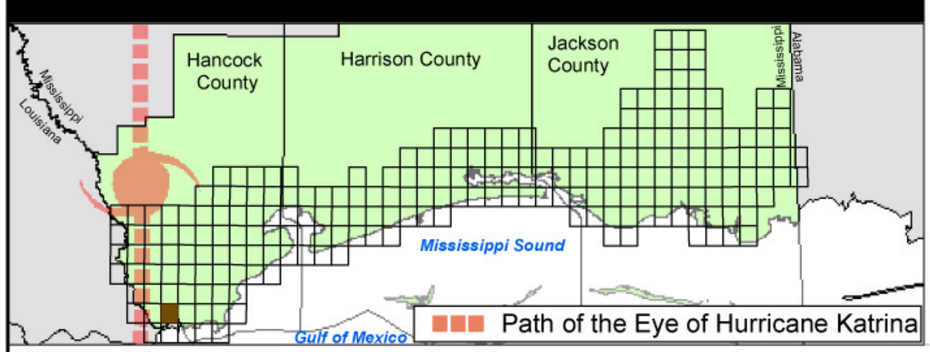
Date of Event: August 29, 2005
Date of Map: December 30, 2005

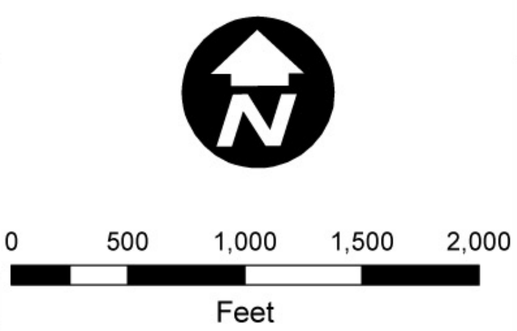
**Map Number: MS-C4**

FEMA

| Estimated Katrina Surge Elevations[1,2] |
|---|
| 19-20 ft |
| **Advisory Base Flood Elevations[2,3]** |
| Open Coast: 20-30 ft<br>Back Bay: N/A |
| **Effective Base Flood Elevations[2]** |
| VE Zone: 14-16 ft<br>AE Zone: 12-13 ft |

**OVERVIEW MAP**




**LEGEND**

State Boundary
County Boundary

**Hurricane Katrina-Related Data**

Preliminary Indoor High Water Mark[2]
Preliminary Outdoor High Water Mark[2]
Preliminary Debris High Water Mark[2]
Limit of Katrina Surge Inundation

**Flood Advisory-Related Data**

ABFE Contours (1-foot intervals)[3]
ABFE Inland Limit[3]
Approx. Limit of 1.5-foot Wave Zone[3]
Approx. Limit of 3-foot Wave Zone[3]
Open Coast/Back Bay Boundary
Limit of ABFEs

**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.shtm***

**Notes:**

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

[2] Measured in feet relative to the North American Vertical Datum of 1988.

[3] 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 = $^1/_2$ 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)***