



USACE 2015 Flood Risk Management

Intersection of Resiliency and Flood Risk Management

Roy Wright

Deputy Associate Administrator for Insurance and Mitigation

December 3, 2015

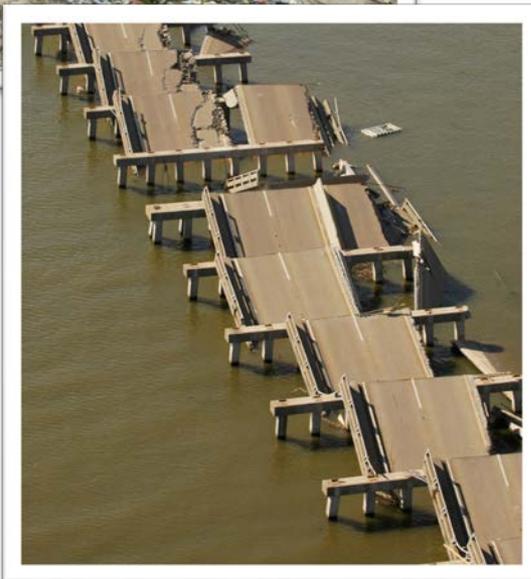


FEMA

Changing the Risk Profile of a Community



Hurricane Katrina: Mississippi Recovery and Mitigation



234,000 homes damaged or destroyed

1 million people affected

\$1.3 billion in FEMA assistance to help survivors repair and rebuild homes

\$3.1 billion to clean debris and repair schools, hospitals, roads, and other infrastructure

\$2.5 billion NFIP payments to policyholders

\$314 million in post-disaster mitigation grant funding



FEMA

RiskMAP
Increasing Resilience Together

A One-Two Punch

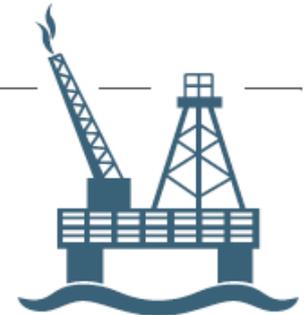


People living and working across the Gulf Coast region experienced **TWO CATASTROPHIC EVENTS IN A FIVE-YEAR PERIOD.**



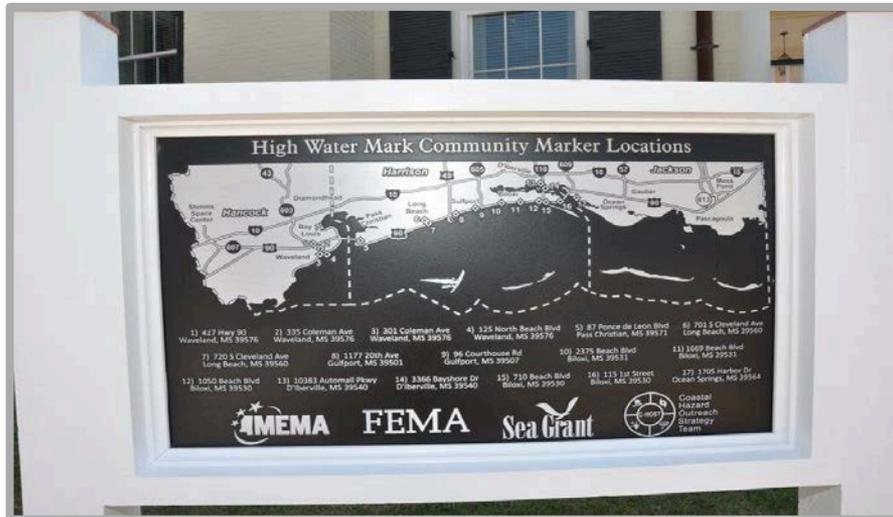
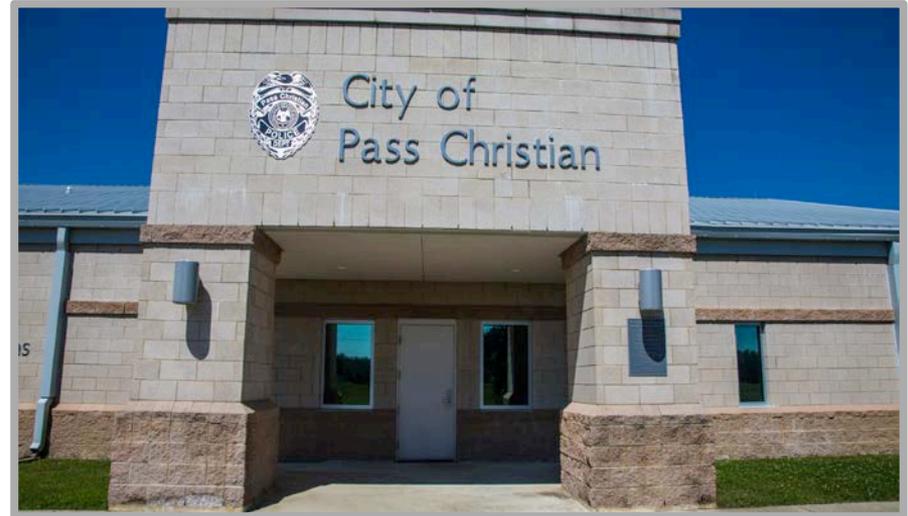
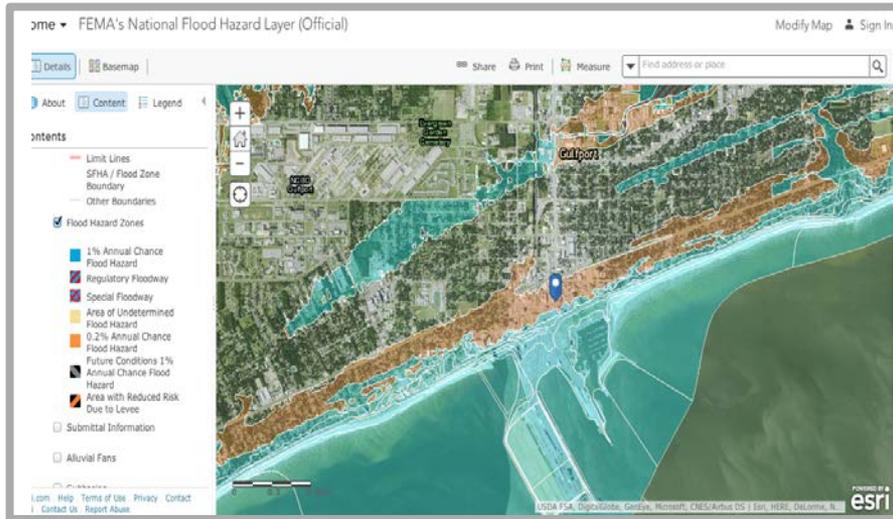
HURRICANE KATRINA IN 2005

**DEEPWATER HORIZON
OIL SPILL IN 2010**



FEMA

Mississippi Today

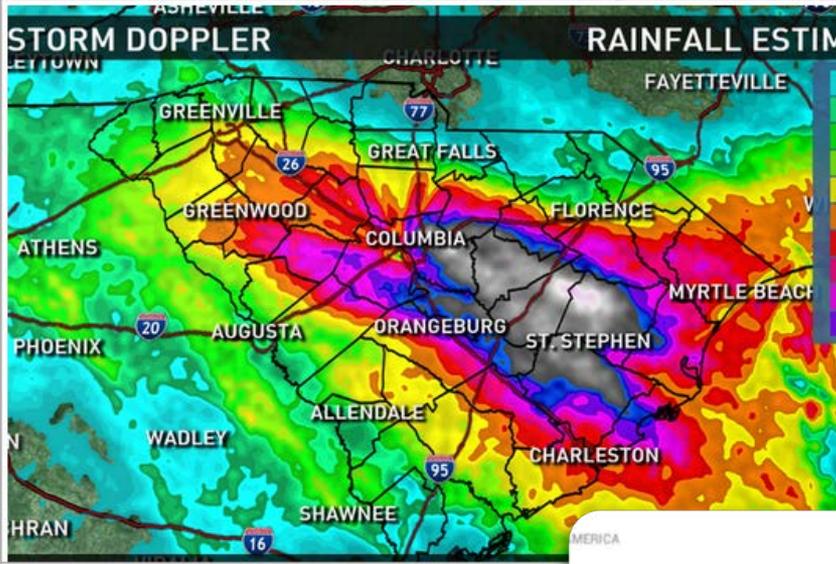


South Carolina 2015 Flooding Disaster

What is a '1000-year' flood?

Daniel Bonds, WLTX 2:56 p.m. EDT October 5, 2015

Although unlikely, a '1000-year' flood can occur every year.



S.C. Gov.: Flooding At 1,000-Year Level; At Least 5 Dead

Updated October 5, 2015 - 1:14 AM ET



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South Carolina Flooding: NFIP and IA Data



88,000 Registrations for Individual Assistance (Housing, Other Needs)



5,108 NFIP Insurance Claims



\$4,000 Average IA grant award
\$49,069 Average Family Median Income in declared counties
\$21,537 Average Closed NFIP Claim Payment



FEMA

Resilience Initiatives Across the US

100 Resilient Cities Preparedness
Resilience Indicators
Resilient Lands and Waters Initiative National Disaster Resilience Competition
National Drought Resilience Partnership Regional Coastal Resilience Grant Program
EPA Climate Resilience Evaluation and Awareness Tool **Climate Actions Champions Program**
Partnership for Energy Sector Climate Resilience and Resilience Seminar
HHS Sustainable and Climate-Resilient Health Care Facilities Initiative **Resilience Americorps**
Community and Regional Resilience Institute Pilot Cities **U.S. Climate Resilience Toolkit**
Federal-Tribal Climate Resilience Partnership and Technical Assistance Program
NIST Community Resilience Planning Guide for Buildings and Infrastructure **Climate Adaptation**
Preparedness Pilots Hurricane Sandy Coastal Resiliency Competitive Grant Program
Green Infrastructure and the Sustainable Community Initiative Resilient America Roundtable
Green Infrastructure Collaborative CDC Building Resilience Against Climate Effects Framework
Water Infrastructure and Resiliency Finance Center **RE.invest Initiative**
Climate Resilience and Urban Opportunity Initiative
DHS Regional Resiliency Assessment Program
Coastal Ecosystem Resiliency Grant Program
Federal Flood Risk Management Standard
USACE Resilience Program



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Driving Action To Reduce Risk Even When There Is No Appetite for “Resiliency”





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