

Assessing the Hazard



- Introductions and welcome
- Planning process
- Vulnerability and risk assessment process
- Hazard identification and assessing the hazard

Introductions



- Name
- Organization
- Role

What's in the Mitigation Plan?



- Community profiles demographics, employment, growth areas, natural environment, and built environment
- Hazard information and risk assessment natural, human-caused, and technological hazards
- Community capabilities
- Mitigation goals, objectives, and actions
- Maintenance strategies maintenance plan for the next five years

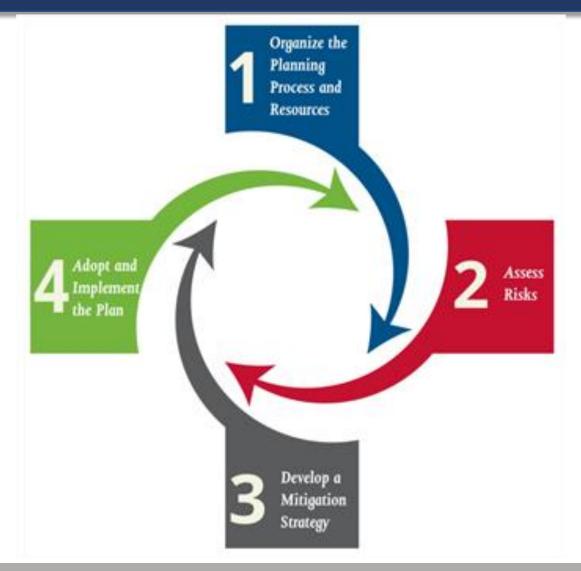
Role of Steering Committee



- Provide supporting data and information
- Assist in the identification and prioritization of hazards to address
- Assist in the identification and prioritization of mitigation actions
- Review and comment on the draft plan

HMP Planning Process





Focus of this Update



 Update the risk assessment with a detailed, sitespecific Hazus analysis

Lower insurance costs

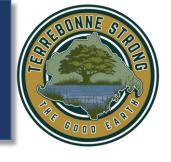
Update Plan with recent hazard information and experiences

Community Rating System (CRS)



- Launched by FEMA in 1990 (Terrebonne Parish joined in 1992)
- Voluntary, incentive-based program that recognizes, encourages and rewards community floodplain management activities that exceed minimum standards of the National Flood Insurance Program (NFIP)
- Flood insurance rates for private properties are discounted to reflect the reduced flood risk resulting from community actions
- Parish is currently a Class 7 community

Community Rating System (CRS) Steps



Mitigation Planning Elements*	CRS Planning Steps**
A. Planning Process	1. Organize to prepare the plan
	2. Involve the public
	3. Coordinate
	10. Implement, evaluate, revise
B. Hazard Identification and Risk Assessment	4. Assess the hazard
	5. Assess the problem
C. Mitigation Strategy	6. Set goals
	7. Review possible activities
	8. Draft an action plan
D. Plan Update	10. Implement, evaluate, revise 5-year update
E. Plan Adoption	9. Adopt the plan

Definitions - Hazard



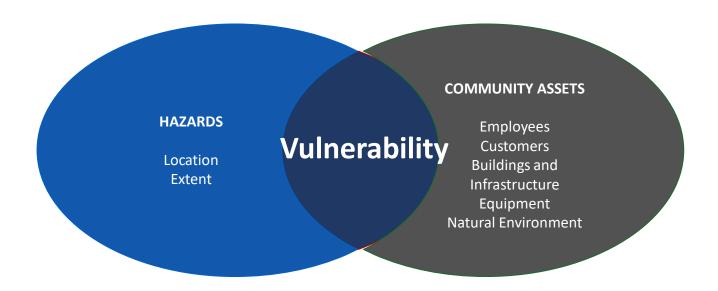
 Hazard means an event or physical condition that has the potential to cause fatalities, injuries, property damage, infrastructure damage, agricultural loss, damage to the environment, interruption of business, or other types of harm or loss. (FEMA)

Source: Local Mitigation Planning Handbook, FEMA 2013.

What is Vulnerability?



 Vulnerability definition: The susceptibility of people, property, industry, resources, ecosystems, or historical buildings and artifacts to the negative impact of a disaster. (FEMA)



What is Risk?



 The potential for damage, loss, or other impacts created by the interaction of natural hazards with community assets.

Source: Local Mitigation Planning Handbook, FEMA 2013.



What is Risk Assessment?



 Product or process that collects information and assigns values to risks for the purpose of ranking priorities, developing or comparing courses of action, and informing decision making. (FEMA)

Risk/Vulnerability Section of the Plan



- Hazard description
- Geographic location and extent of hazard
- Magnitude and severity
- Previous occurrences
- Relationship to other hazards
- Vulnerability and risk
- Impacts social, economic, and environmental

Hazards Addressed in Previous HMP



- Flooding (surge, rainfall, and riverine/backwater)
- Levee failure
- Hurricanes and coastal/tropical storms
- Saltwater intrusion
- Tornadoes
- Subsidence (coastal and within forced drainage areas)
- Coastal erosion
- Lightning

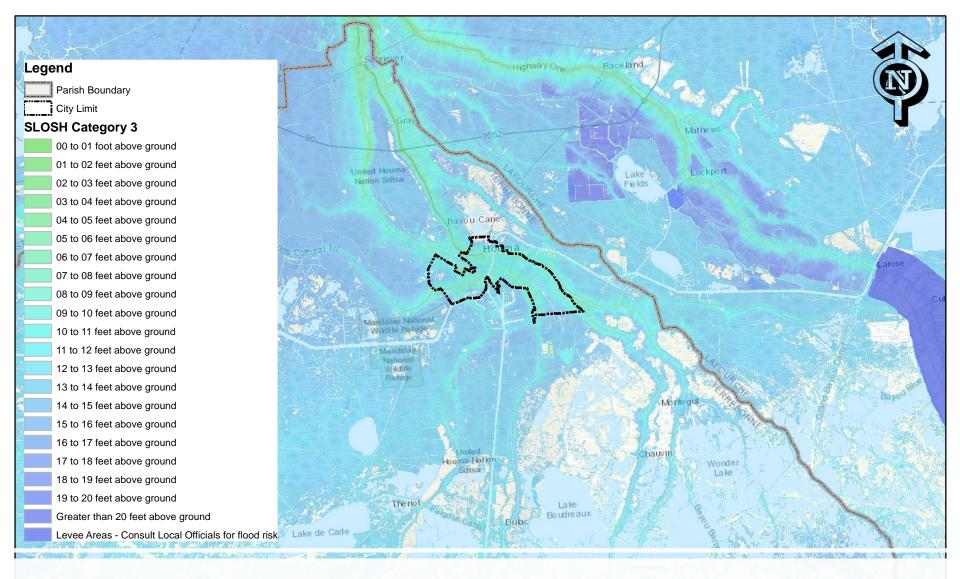
Additional Hazards to Consider



Extreme heat

Expansive soil

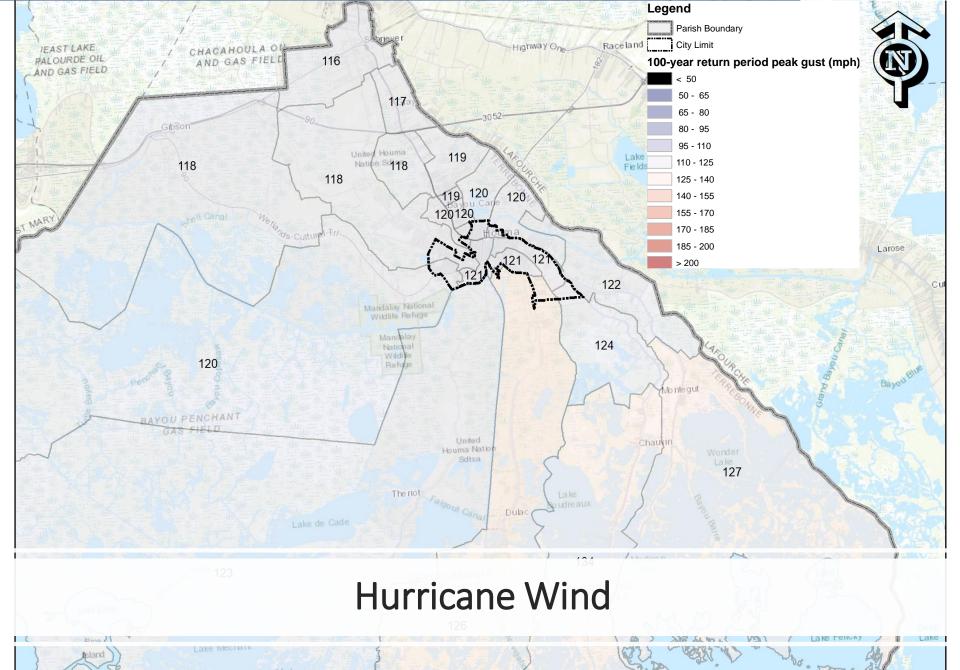
- Drought
- Wildfire
- Winter Storms
- Wind as separate hazard
- Hailstorms
- Earthquake
- Sinkholes



Hurricane Surge (SLOSH Category 3)

5 Miles ake

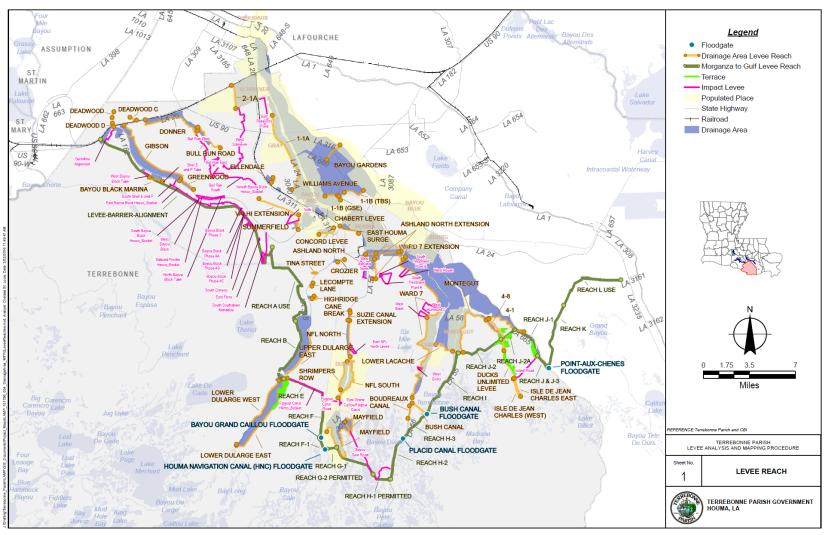
Lake Mechant



5 Miles

Levee Reach

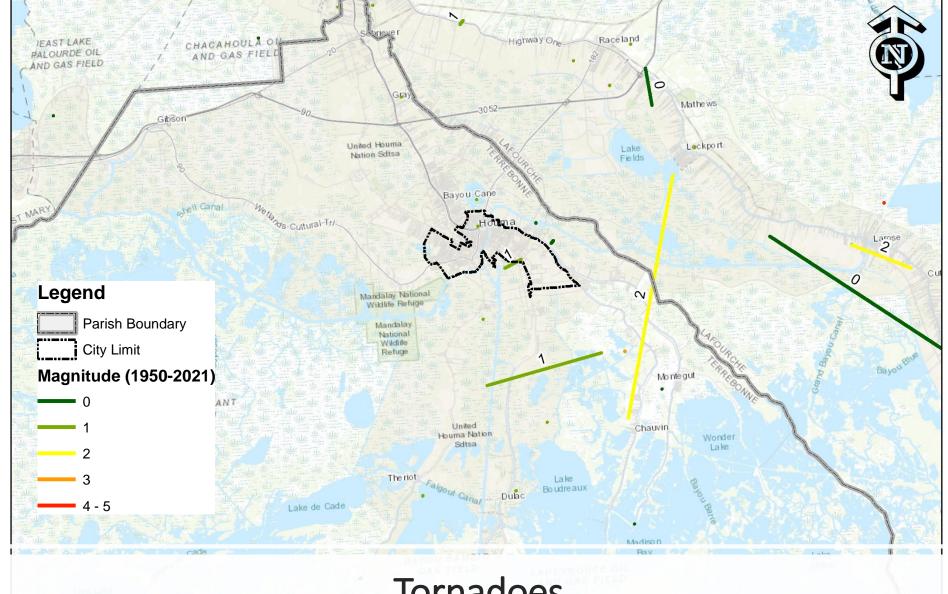




Saltwater Intrusion





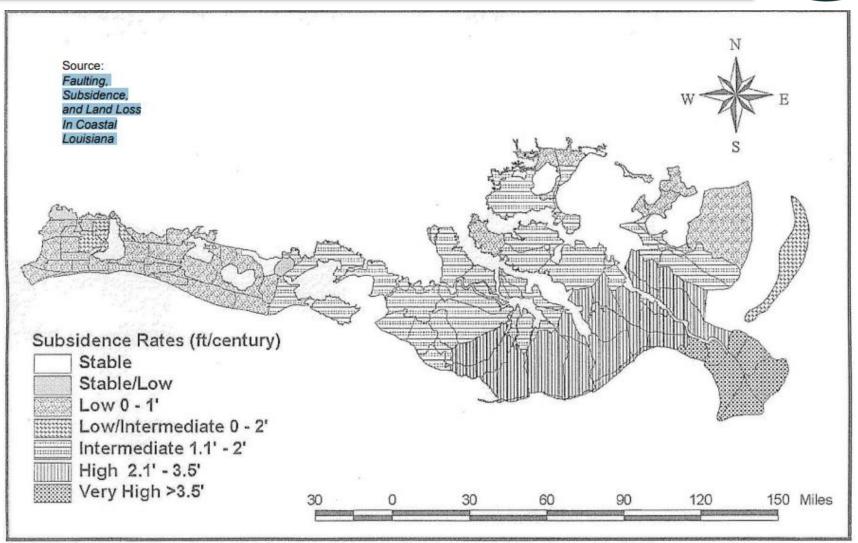


Tornadoes



Subsidence



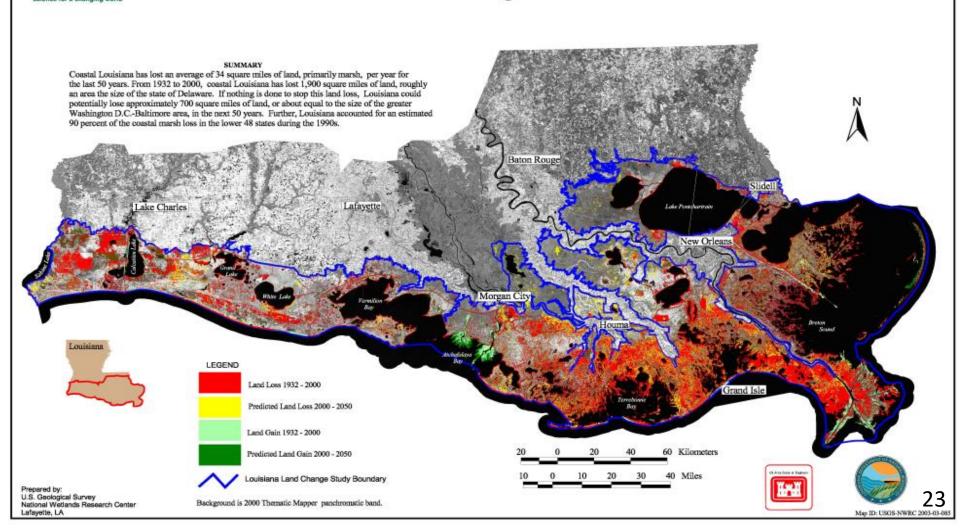


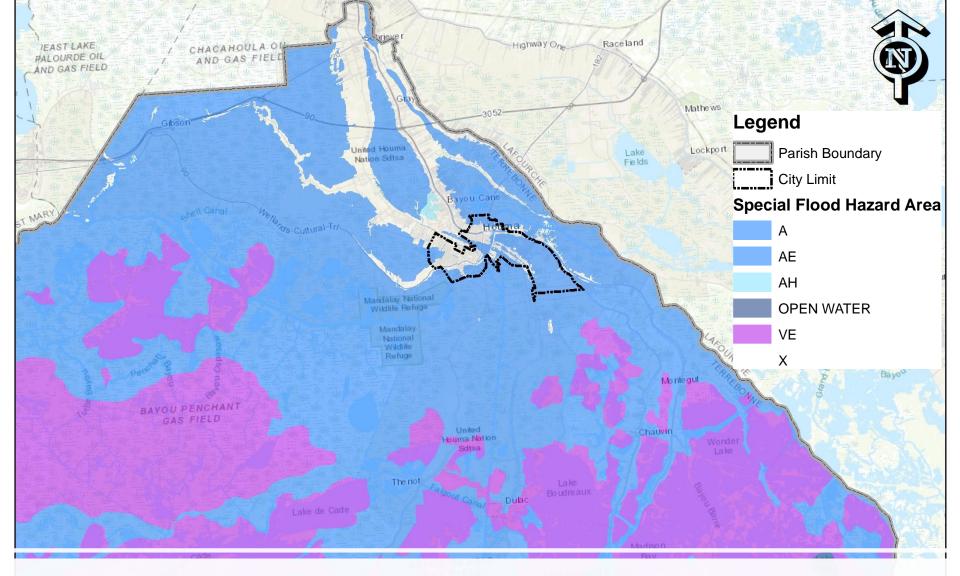
Coastal Erosion





100+ Years of Land Change for Coastal Louisiana





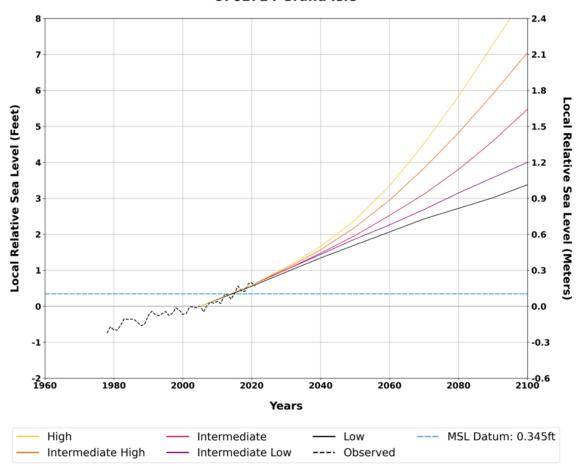
New Flood Map



Sea Level Rise



Annual Relative Sea Level Since 1960 and Projections 8761724 Grand Isle



Additional Flood Discussion



- Discuss
 - Flood sources and previous events
 - Levee breach locations
 - Future development in the floodplain
 - Climate change impacts
- Identify other locations of flooding

Next Steps



- Confirm critical facilities
- Review hazard impacts
- Assess the problems and potential impacts