Clean and Resilient Marina National Working Waterfronts & Waterways Symposium November 18, 2015



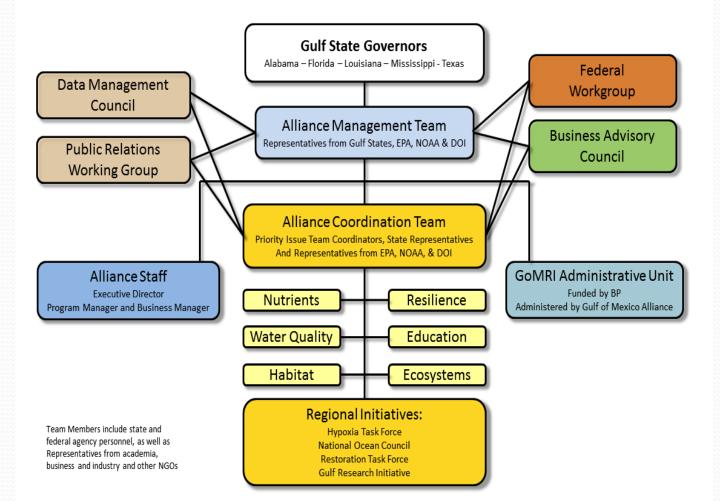
Gulf of Mexico Alliance





 The Gulf of Mexico Alliance is a partnership of the five Gulf States, federal agencies, academic organizations, business, and other non-profits in the region.

Gulf of Mexico Alliance





Gulf of Mexico Alliance





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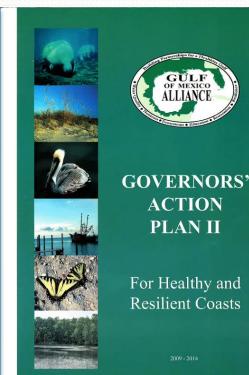
GOVERNORS' ACTION

PLAN

For Healthy and Resilient Coasts

farch 2006 - March 200

The Governors' Action Plan for Healthy and Resilient Coasts directs the Gulf of Mexico Alliance and provides an outline for the Alliance six priority issue teams



Gulf of Mexico Alliance Priority Issue Team



Coastal Community Resilience Team Mission

Coordinate and enhance efforts of local, state, federal, business and nonprofit partners to assist coastal communities and ecosystems in the Gulf of Mexico region in becoming more resilient in structure and function.



Coastal Community Resilience Focus Area



Clean and Resilient Marinas Initiative



To promote and expand resilient and environmentally responsible operations and best management practices at marinas in the Gulf region.

Gulf Coast Marinas



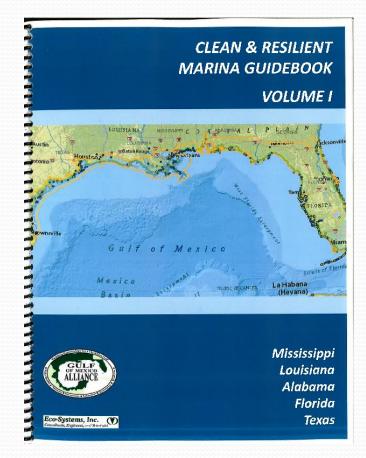
New Guidebook Sections

Emergency Evacuation

- Safe Harbors or Hurricane Holes
- Preparation for Storm Seasons
- Evacuation timing & Procedures

Climate Adaptation & Recurrent Flooding

- Restoring naturally protective shoreline vegetation
- Promoting the use of moveable facilities and infrastructure
- Locating permanent facilities upland



Resilient Practices in Place

Design & Siting Double bracing structure on pier to avoid shifting during high winds and water
Electrical systems designed to withstand salt water

•Emergency Preparedness Hurricane preparedness guide written into berthing agreement, and

•Evacuation Bait shop is trailerable and designed to be removed in a hurricane



Preparing for Tropical Storm Lee (Courtesy of marconews.com)

Sample Tool: Hurricane Preparedness Plan

Includes:

Information required
Pre-Storm Procedures
Staff responsibilities
Boater responsibilities
Timeline counting down to storm

Condition	Activities
<u>Preseason</u>	Review and revise plans, lists, and inventories. Generate customer awareness and conduct employee training.
Condition 5 Season Starts (June 1)	Normal operation. Monitor weather and continue hurricane awareness – ensure all parties have updated plans.
Condition 4 Storm in Vicinity	A storm has developed and could pose a threat to coast. Assemble Leaders of the Hurricane Response Team to evaluate threat and review Hurricane Plan.
Condition 3 72 – 48 Hours to Landfall by the Hurricane Eye	A storm is threatening. Activate the full Hurricane Response Team. Begin implementation of Hurricane Preparedness Plan.
Condition 2 48-36 Hours to Landfall by the Hurricane Eye	A hurricane may strike within 36-48 hours. Complete securing of marina and boats. Hurricane WATCH has been issued by the National Hurricane Center and the County Emergency Management Agency probably recommends voluntary evacuation of islands and other low-lying areas. Determine marina closing and employee evacuation schedule. Establish limited entry.

Clean and Resilient Marina Checklist

- Clean Marina Design
- Resilient Marina

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- Emergency Planning
- Evacuation Procedures
- Sewage Handling
- Fuel Control
- Solid Waste Management
- Vessel Cleaning and Repair
- Stormwater Management
- Marina Staff Management
- Marina Boater Management

Jody Compretta Marina Bay St. Louis, Mississippi





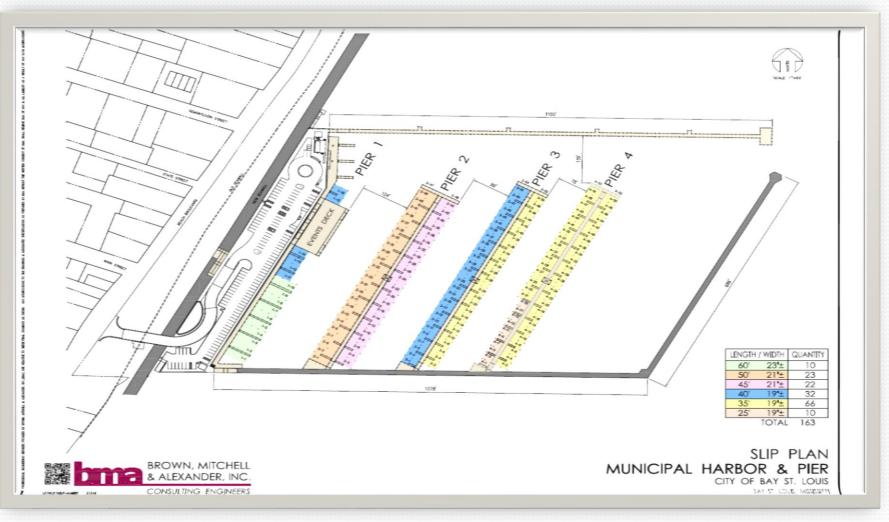
Jody Compretta Marina can accommodate you and your boat needs whether you need a 25' slip or a slip upwards of 100



Small Slips Range from 25' to 40'

Large Slips Range from 45' to 60'

Jody Compretta Marina Slip Plan



Certified Clean and Resilient Marina







Bay St. Louis Harbor received the first Clean and Resilient Marina designation on the Gulf Coast since Hurricane Katrina Saturday, July 26, 2014

Harbor Master Office



Resilient Component "Detachable Harbor Master Office"



Resilient Component "Detachable Comfort Stations"





Resilient Component "Elevated Utility Towers"





Resilient Component "Signage & Accessibility"



Clear signage regarding Clean practices around marina and meet accessibility standards



StormWater Management and Erosion Control



Multi-purpose seawall provides protection from soil eroding into waterways and offers ample seating for visitors during an event at the marina



StormWater Management and Erosion Control



Low-impact vegetation helps stabilize slopes and decreases erosion





For more information about the Clean and Resilient Marina Initiative

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http://www.gulfofmexicoalliance.org/2013/08/clean-resilient-marinas-initiative/