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Commission on Marine Resources

July 16, 2019

ENHANCE ★ PROTECT ★ CONSERVE

Employment, Contracts and Procurement Updates

July 16, 2019

D.1.

Contracts and Procurements for July 2019

Service Contracts					
Vendor	Procurement Method	Amount	Term	Funding Source	Commodity/Service Description
USM Work Order #24	IHL/Exempt	$33,680.00	07.01.2019 – 08.31.2019	100% Tidelands	Shellfish Sanitation Compliance
USM	IHL/Exempt	$49,371.00	07.01.2019 – 12.31.2019	100% Bonnet Carre	Blue Crab Life History
USM	IHL/Exempt	$62,501.00	07.01.2019 – 12.31.2019	100% Bonnet Carre	Blue Crab CPUE

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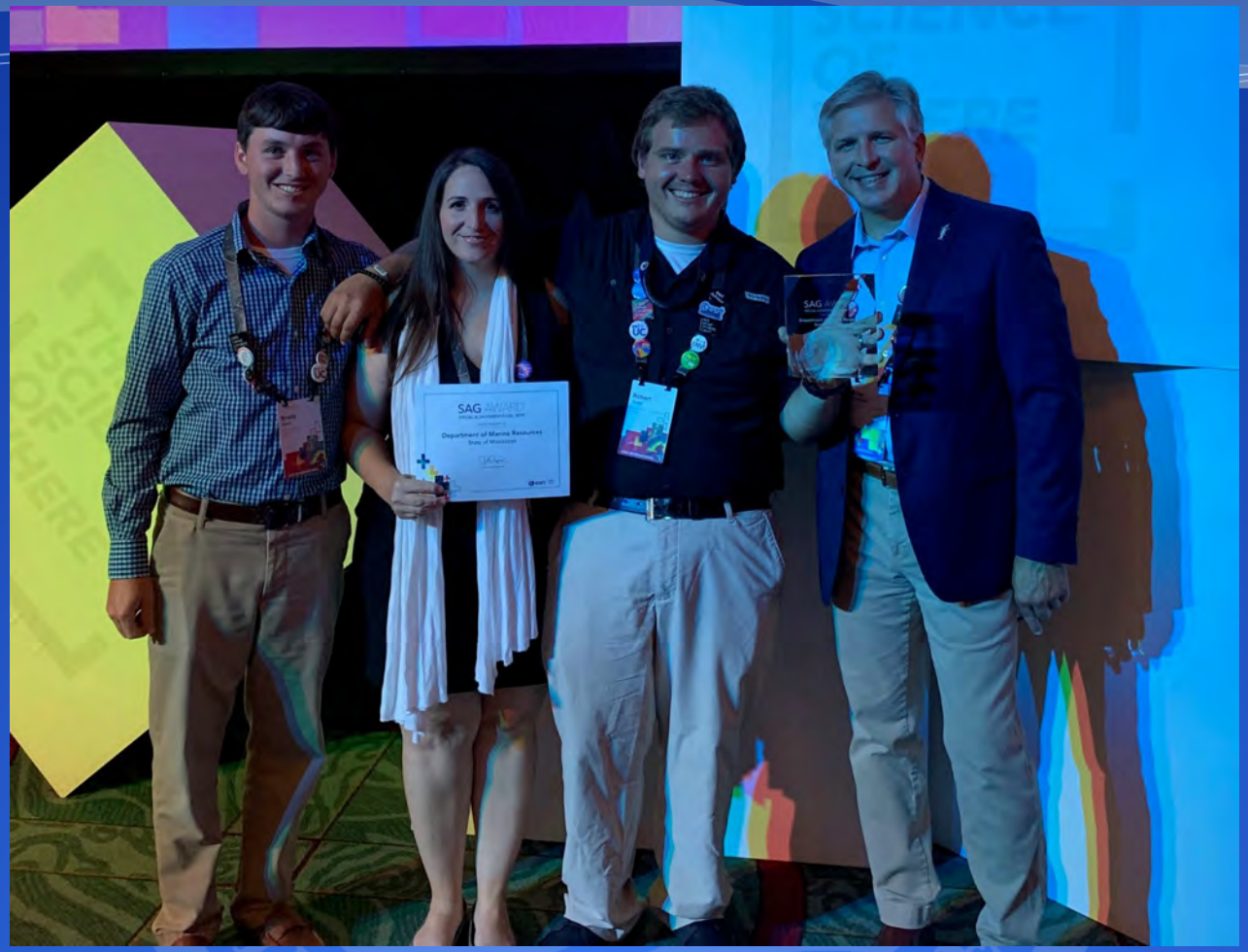
Information Technology & Geographic Information Systems Report

Karen Clark

July 16, 2019

D.2.



The Special Achievement in GIS (SAG) Award ceremony was held on July 10, 2019 at the annual Esri User Conference. The awards are given to organizations using GIS to improve our world. These organizations set new precedents throughout the GIS community. Our agency stood out from more than 100,000 organizations and is featured at www.esri.com/sag-award. SAG Award recipients represent 0.01% of Esri users globally.

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Other SAG Winners

- Department of Mineral Resources of Thailand
  - Search and Rescue
- The United Nations
  - Sustainable Development
- Columbia University
  - Open Data for marine geoscience

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Example Projects

- Data Collection Apps
- Dashboards
- Interactive Maps on DMR Website
- Aerial Photos
- Elevation Models
- Habitat Mapping & Monitoring
- These projects were developed in-house by the IT/GIS Team at no additional cost to the State/Agency.

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9:26 78° 41%

Diamondback Terrapin Reporting System

License Number: *

First Name: *

Last Name: *

Number of Traps: *

Soak Time: *
Time in hours.

Start Time:
Arrive at the traps.
Time

End Time:
Finished the last trap.
Time

Terrapins Observed: *

9:25 78° 41%

Terrapin Nesting Tracker

Location:

30°21'N 88°41'W

Type:
Select all that apply

- [ ] Nest
- [ ] Track
- [ ] Animal
- [ ] Other

If Track, Does it lead to a nest?

- ( ) Yes
- ( ) No

If Nest, Is it predated or intact?

- ( ) Predated
- ( ) Intact

If Nest, What habitat is it located in?

If Terrapin, Is the animal dead or alive?

- ( ) Dead
- ( ) Alive

If Terrapin, Is the animal adult or juvenile?

- ( ) Adult
- ( ) Juvenile

9:23 78° 42%

My Survey

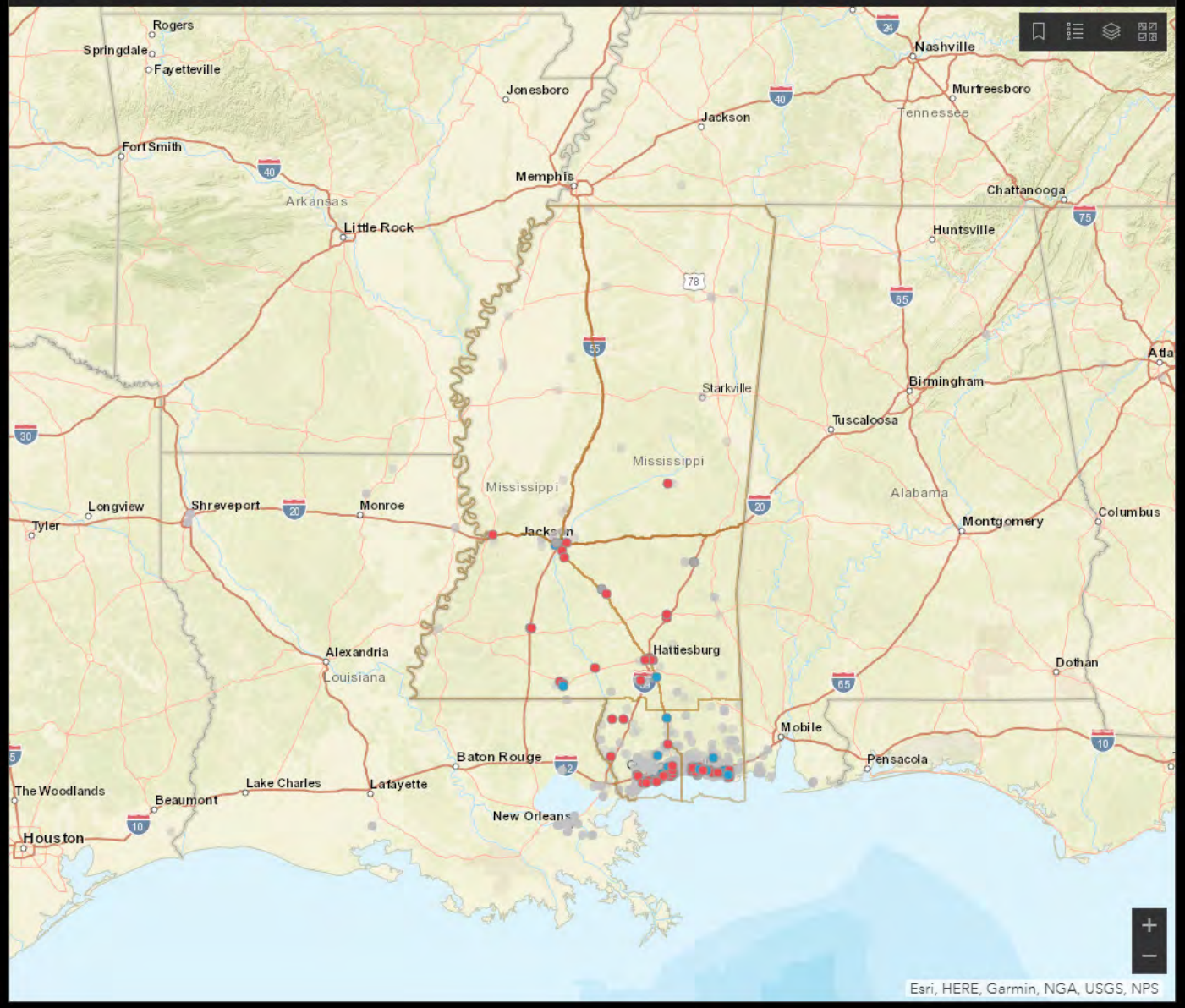
Survey Type:

- ( ) Pre Selected Observation Point
- ( ) Invasive Occurrence
- ( ) Other POI

Present Invasive Species

- [ ] cogon grass (Imperata cylindrical)
- [ ] Japanese climbing fern (Lygodium japonicum)
- [ ] torpedo grass (Panicum repens)
- [ ] common reed (Phragmites australis)
- [ ] Japanese honeysuckle (Lonicera japonica)
- [ ] sesbania herbacea (Sesbania macrocarpa, Sesbania exaltata)
- [ ] camphor (Cinnamomum camphora)
- [ ] Chinese tallow (Triadica sebifera)
- [ ] alligator weed (Alternanthera philoxeroides)
- [ ] water hyacinth (Eichhornia crassipes).
- [ ] Chinese Privet (Ligustrum sinense)
- [ ] Other Invasive Species

Seafood Inspections



Inspections:

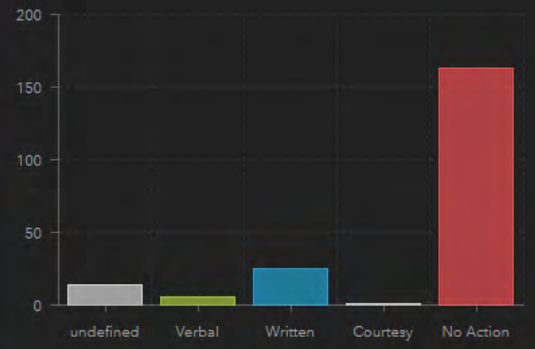
209

Last update: a few seconds ago

Roadside Vendor:

Last update: a few seconds ago

Actions:



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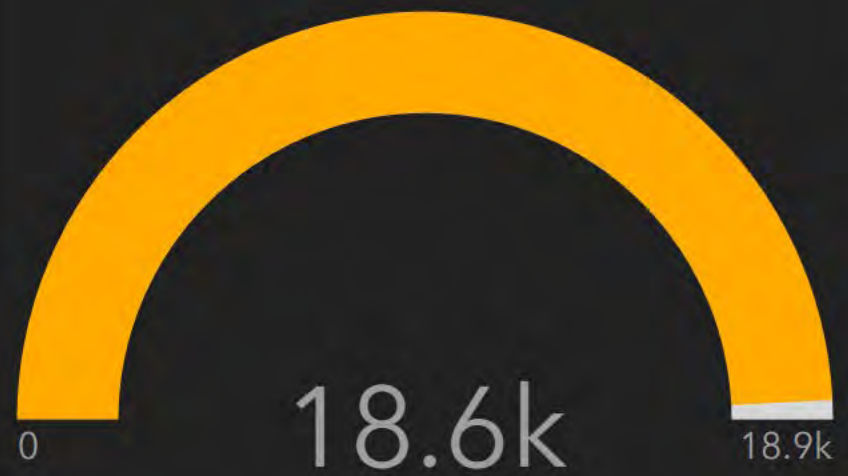
Total Sacks



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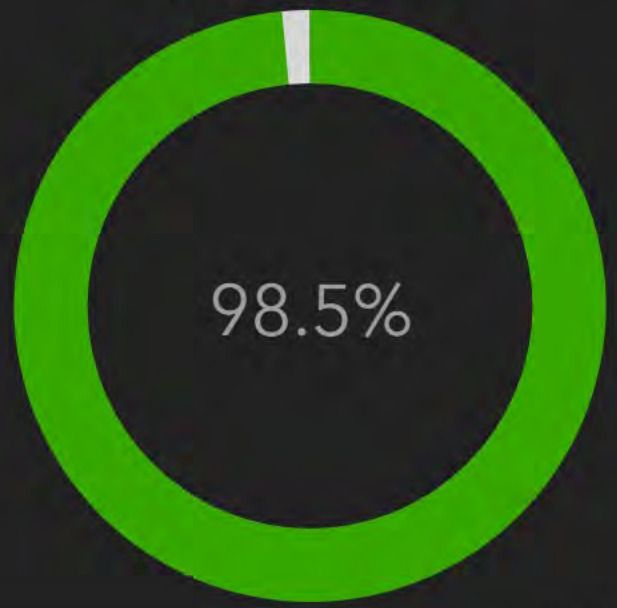
Relay Completion



Last update: a few seconds ago

Total Trips

697

Last update: a few seconds ago

Today's Trips

98

Last update: a few seconds ago

Today's Sacks

3,624

Last update: a few seconds ago

Total Sacks

18,578

Last update: a few seconds ago

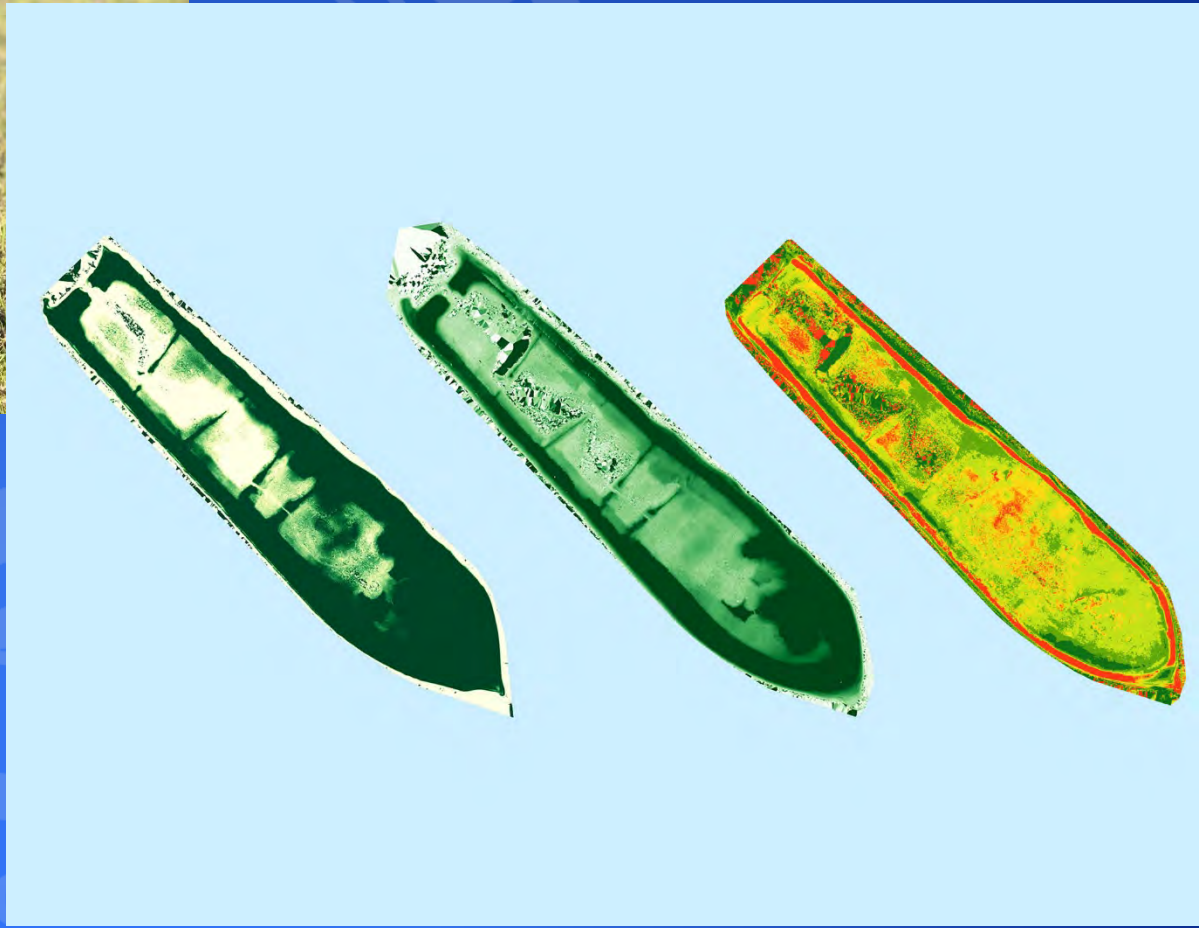
Remaining Sacks

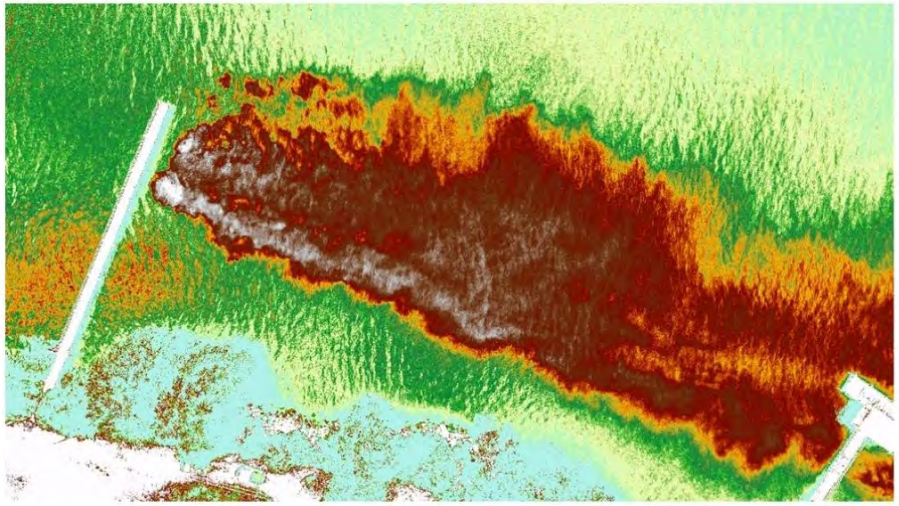
286

Last update: a few seconds ago

Today's Trips

Last update: a few seconds ago





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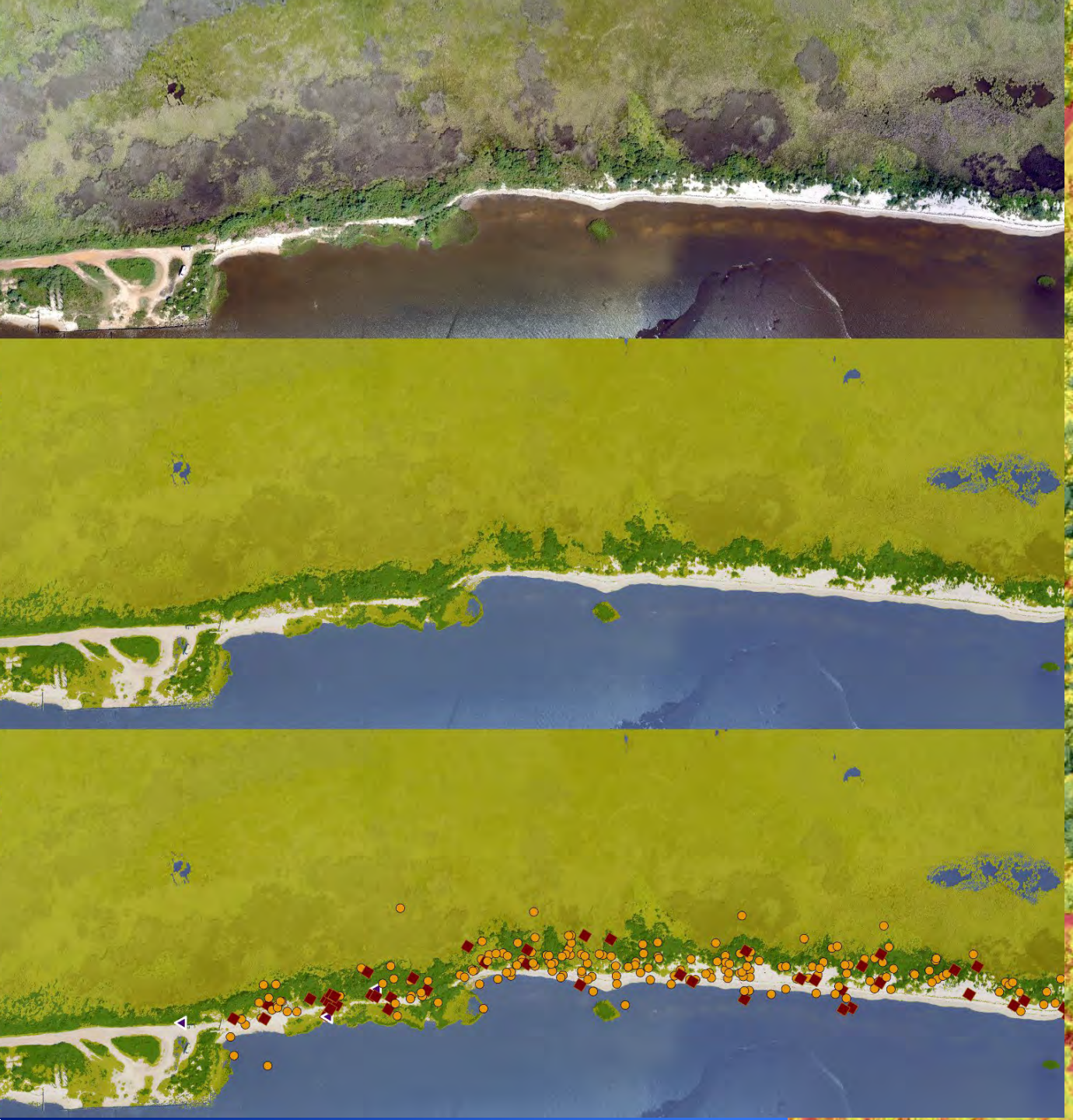

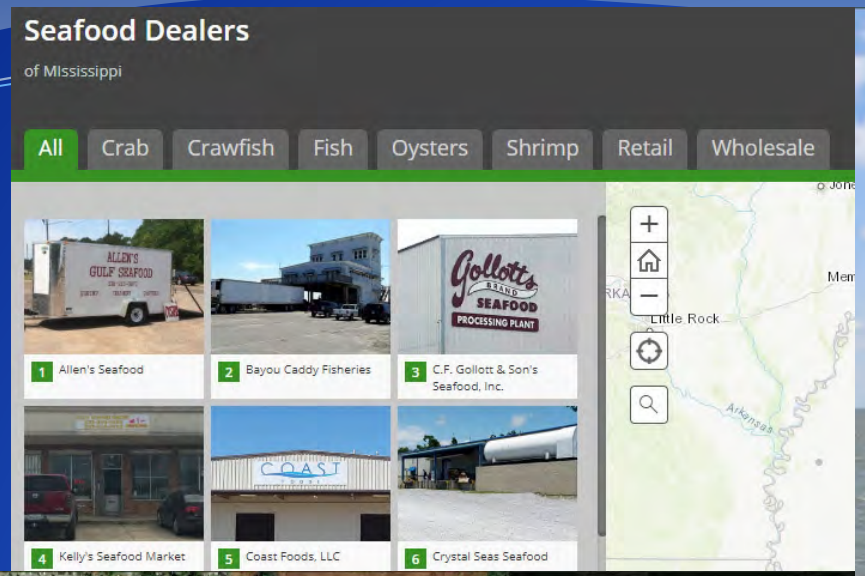

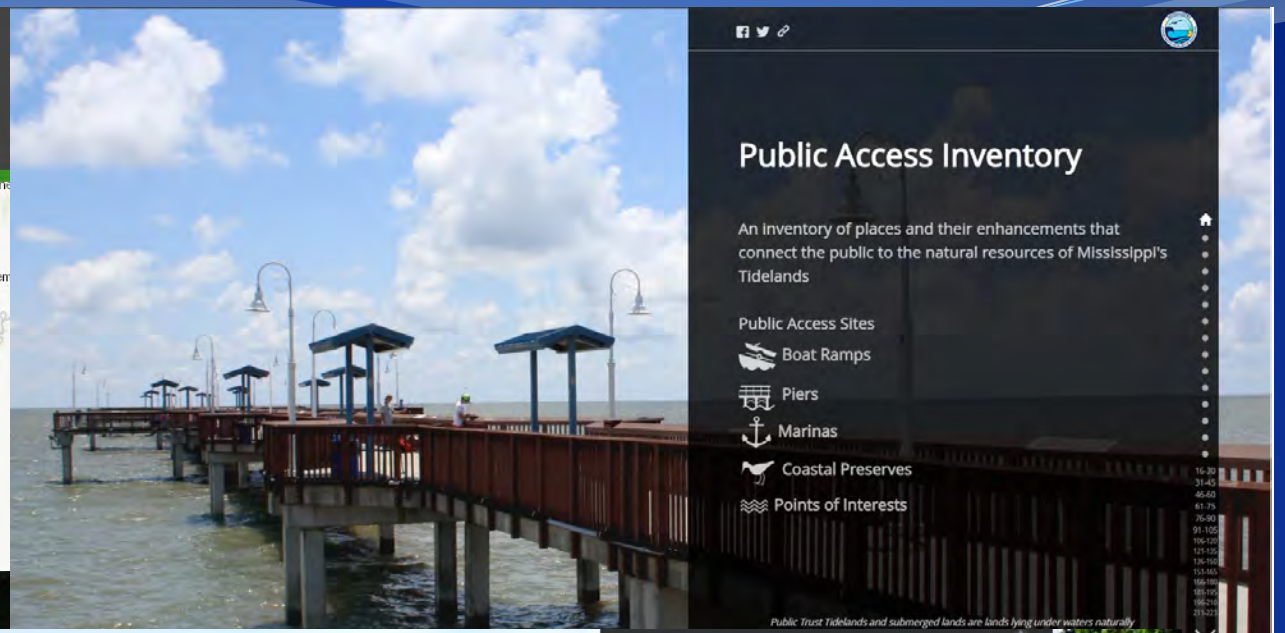

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Questions?

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
ENHANCE ★ PROTECT ★ CONSERVE

Cat Island Enhanced Patrol

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
ENHANCE ★ PROTECT ★ CONSERVE

- Background
  - SOS Hoseman committed funding for ATV and Contract Worker for land-based patrols of state owned property (Coastal Preserve system)
  - Historically, MP has conducted patrols only from water

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
ENHANCE ★ PROTECT ★ CONSERVE

Title 22, Part 19, Chapter 3

- Section 100 states:
  - *"All motorized vehicles, motorcycles, personal water craft, airboats, hovercrafts, vessels and aircraft or airplanes are prohibited in public owned Mississippi Coastal Preserves emergent vegetation and adjoining surrounding land areas, except those vessels operated by the MDMR or otherwise permitted pursuant to this Part"*

ENHANCE ★ PROTECT ★ CONSERVE

Letter sent to Landowners

- During June 2019, the following letter was sent to all landowners explaining the anticipated enforcement of Title 22, Part 19

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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CERTIFIED MAIL
RETURN RECEIPT REQUESTED

June 26, 2019

[redacted]

Re: Bayou Marie Ridge Subdivision, Cat Island, Harrison County, MS

[redacted]

This letter is to inform you of ownership changes on portions of Cat Island. Two maps detailing the location of property belonging to the State of Mississippi are attached (the private property is shaded green, the state property is shaded red and the unshaded areas are federal property that is part of Gulf Island National Seashore). The State property part of the Public Trust Tidelands and as such shall be preserved and maintained in the Coastal Preserves System of the State of Mississippi.

The Mississippi Department of Marine Resources Coastal Preserves Bureau has placed several "no motorized vehicle" signs where existing trails leave privately-owned property and enter onto state-owned property. Chapter 03, Section 100 of Title 22, Part 19 states, "All motorized vehicles, motorcycles, personal water craft, airboats, hovercrafts, vessels and aircraft or aquaplanes are prohibited in publicly owned Mississippi Coastal Preserves emergent vegetation and adjoining surrounding land areas, except those vessels operated by the MDMR or otherwise permitted pursuant to this Part."

The Coastal Preserves Program is dedicated to preserving, restoring and managing state-owned coastal wetlands to perpetuate their natural features and ecological integrity, as well as their social and economic values for the benefit of present and future generations.

Should you have any questions please contact me at Jennifer.wittmann@dmr.ms.gov or 228-523-4111.

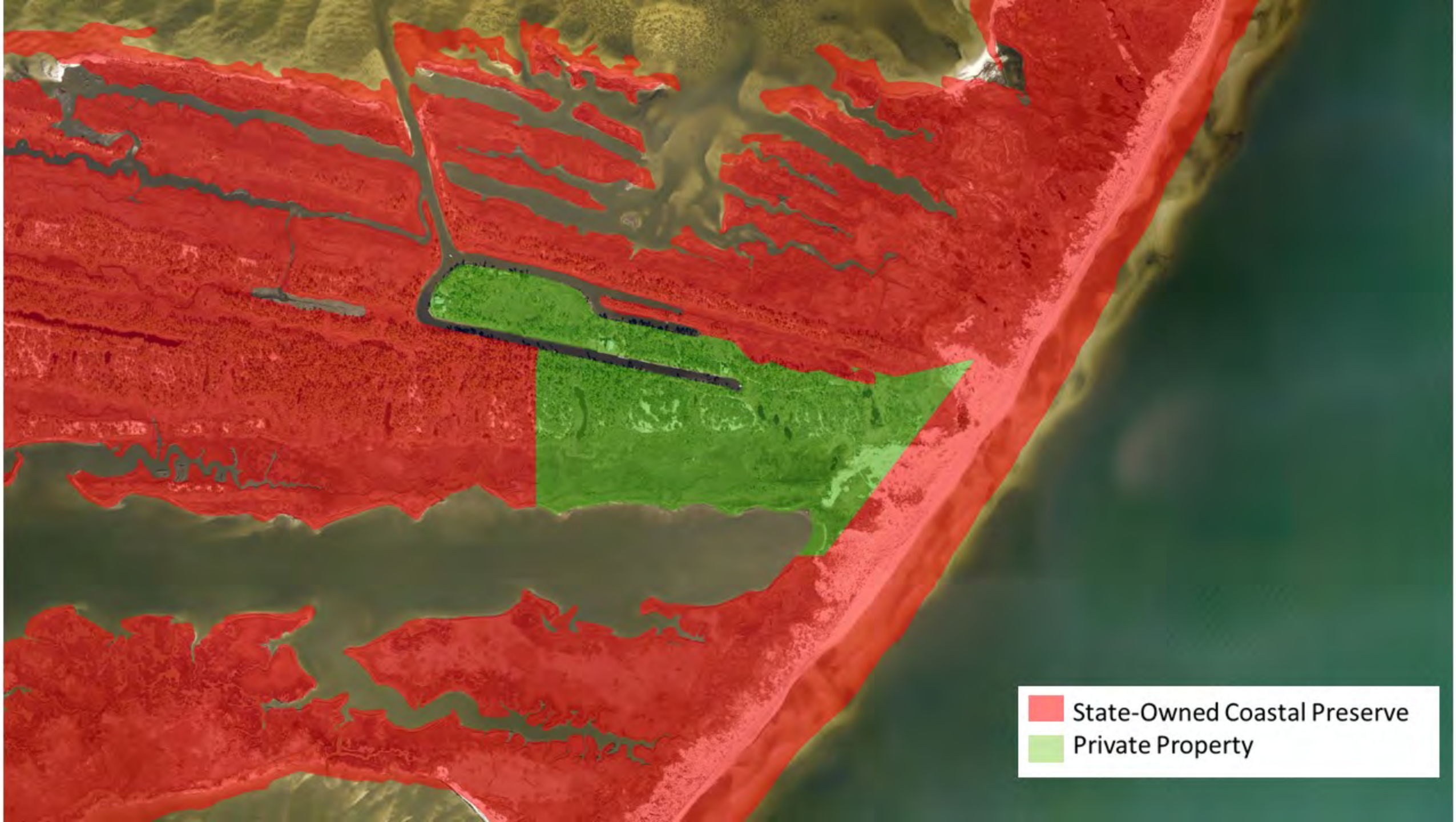
Jennifer C. Wittmann
Director, Bureau of Coastal Preserves

Enclosures

cc: Raymond Carter, SOS
Kyle Wilkerson, Deputy Chief, Marine Patrol

DRAFT

State-Owned Coastal Preserve
Private Property


State-Owned Coastal Preserve
Private Property

ept. of Ma
esource
MARINE
DIESEL
ATROL
NO STEP
RTV
X1100C
Power Steering

LAW ENFORCEMENT
MISSISSIPPI
MS. Dept. of Marine Resources
MARINE PATROL
DIVE TEAM

Tails n Scales Enforcement Trip Data

Completed Tails n Scales trips	3,806
Vessels checked	420
Unregistered trips requiring enforcement action	23
Seized Red Snapper	112

Marine Patrol has verified 11.0% (420 vessels) of the 3,806 completed trips through the Tails n Scales program YTD. 94.5% of the 420 vessels checked have been in compliance leaving only a 5.5% non-compliance rate.

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MARINE PATROL
SPORT TRAIL

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Mississippi Department of Marine Resources

Coastal Resources Management

July 2019

Updates to Title 22, Part 19

- Chapter 1: Introductions
- Chapter 2: Justification and Authority
- Chapter 3: General
  - Users will be responsible for damages to facilities and natural resources. MDMR is not responsible for damage to private property or accidents
  - Open from 1 hour before sunrise until 1 hour after sunset except Deer Island and Cat Island which are open 24 hours/day
  - Any Coastal Preserve may be closed for management or safety reasons

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- Chapter 4: Camping
  - Camping on Deer Island and Cat Island is limited to 7 days (longer with prior approval). Camping on other preserves requires prior approval
  - Campfires are permitted on sandy areas of Deer and Cat Island and vegetation can't be cut down for fires

- Chapter 5: Boating
  - Houseboat mooring is limited to 7 days (longer with prior approval)
  - Boaters must abide by existing boating regulations

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- Chapter 6: Hunting, Trapping, Fishing and Wildlife
  - All people should abide by existing hunting and fishing regulations
  - Hunting is not allowed within any city limits or within 600 feet of a nature trail
  - Permanent blinds and stands cannot be constructed on Coastal Preserves
  - Feeders and harassment of wildlife are not allowed
  - Trapping requires prior approval from Coastal Preserves
  - Releasing animals on Coastal Preserves requires prior approval from Coastal Preserves and MDWFP

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- Chapter 7: Coastal Preserve Property
  - Plants and soils cannot be removed without prior approval
  - No dumping, homesteading, metal detectors, posting of signs, advertising, etc. on Coastal Preserves
  - Dogs must be on leashes
  - Historic site shall not be disturbed

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- Chapter 8: Vehicle Use
  - No motorized vehicles except law enforcement, emergency personnel and MDMR
  - Bikes are allowed on trails only

- Chapter 9: Firearms, Fireworks and Explosives
  - Persons with proper credentials may carry handguns
  - Firearm use is restricted to hunting
  - Explosives are prohibited

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- Chapter 10: Letters of Permission
  - Special Events, extended camping, research, etc. require prior approval from Coastal Preserves
- Chapter 11: Penalties
  - In accordance with MS Code §49-15-63
- Chapter 12: Chapters and Subchapters Declared Separable
- Chapter 13: Administrative Procedures Act

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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Required:

A Motion to Proceed with Notice of Intent to Adopt Title 22, Part 19

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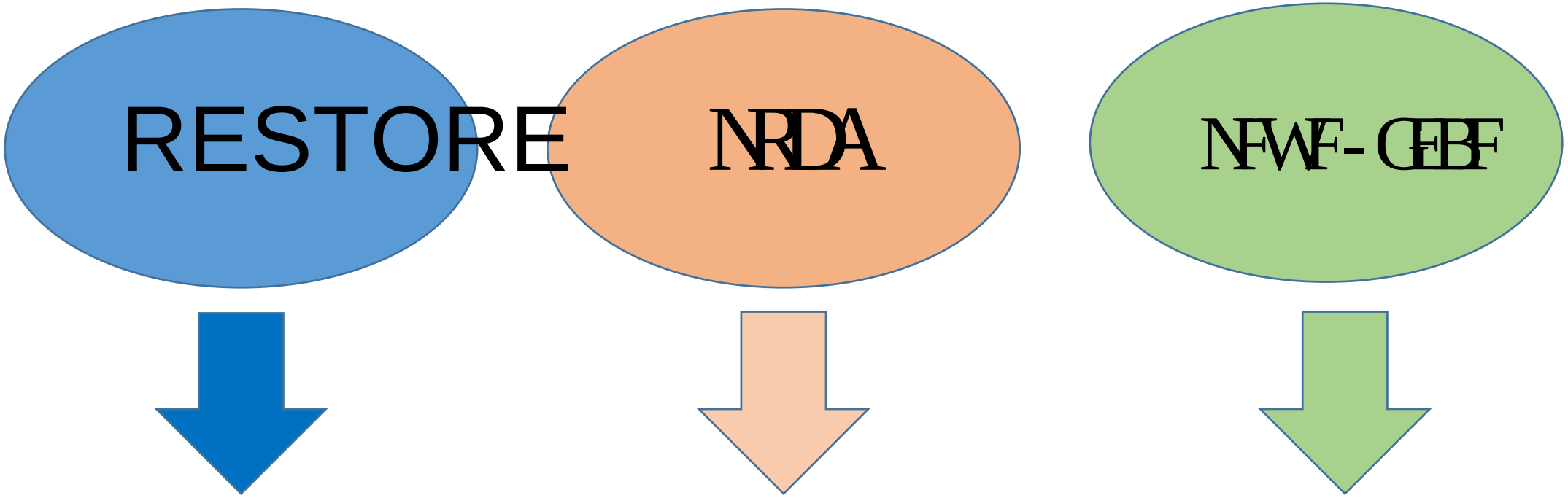
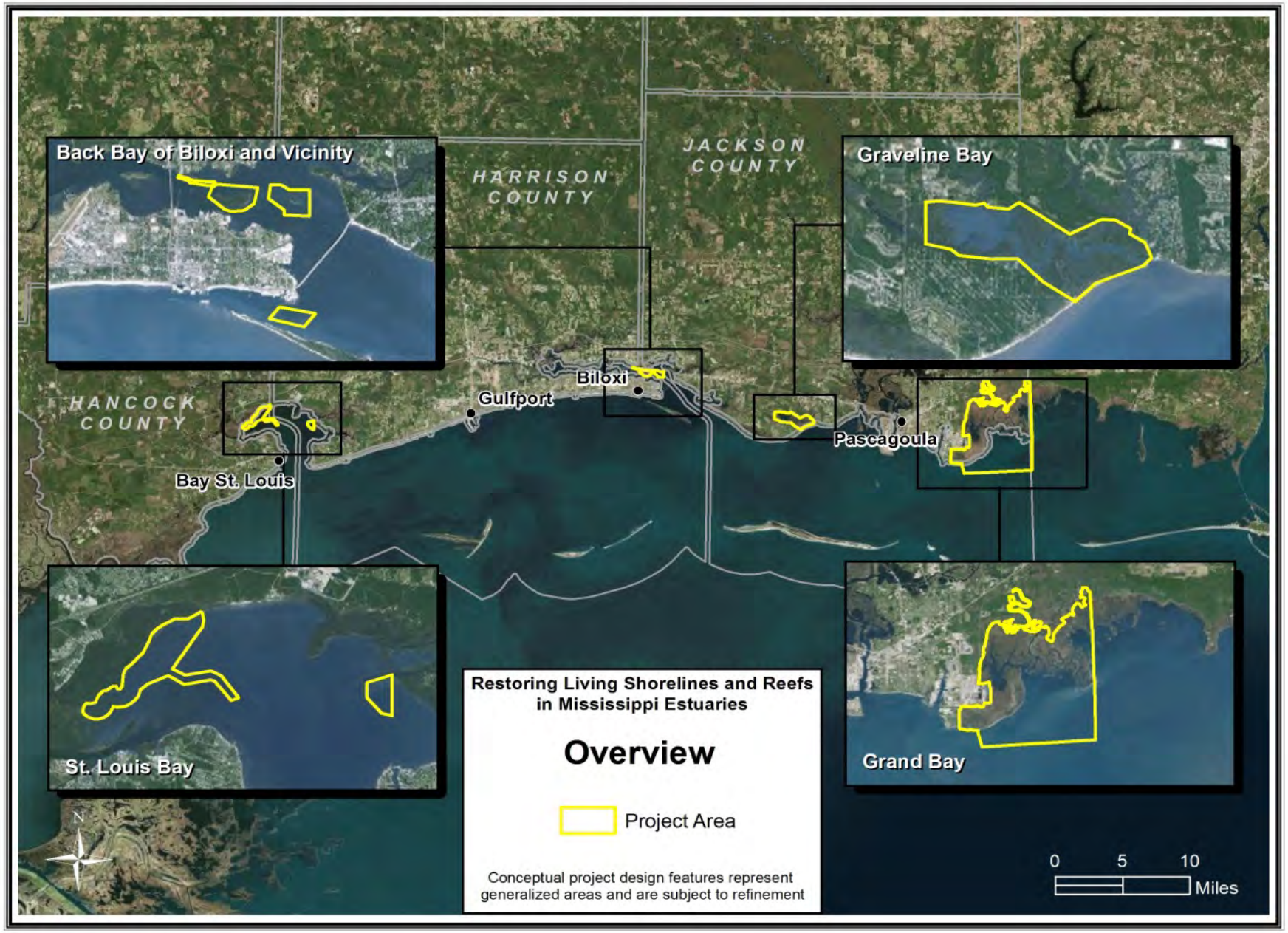
MDEQ DWH Oil spill Restoration

Chris Wells, Director, Office of Restoration

Deepwater Horizon Restoration Funding streams



Civil Settlement
Ecological focus
Funding is allocated by resource
Work through TIG
Driven by Oil Pollution Act
Projects require long-term performance monitoring



Phase IV

Restoring Living Shorelines and Reefs in Mississippi Estuaries

$30,000,000

Building: living shorelines, subtidal reef, intertidal reef

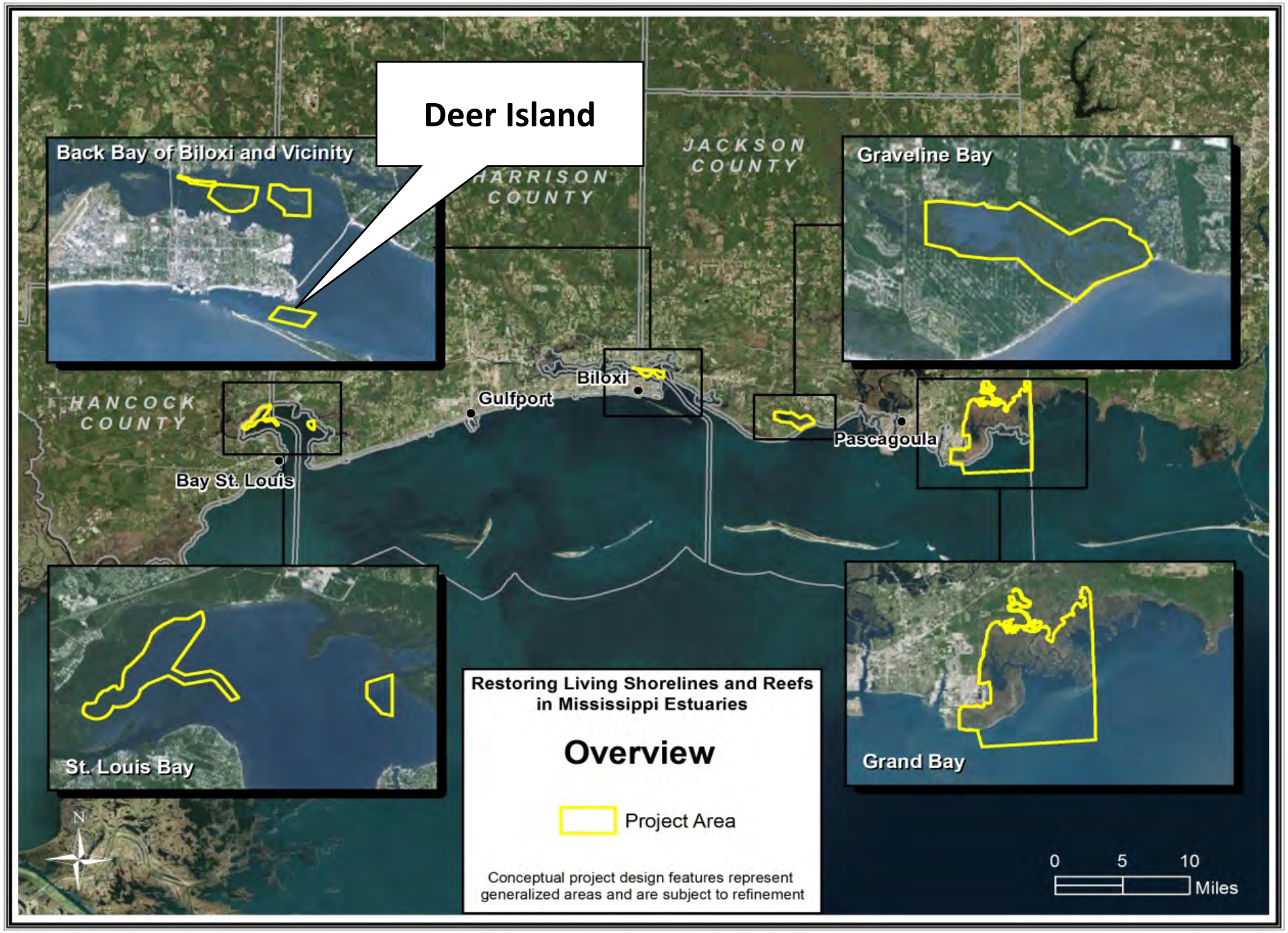
Where:

Grand Bay

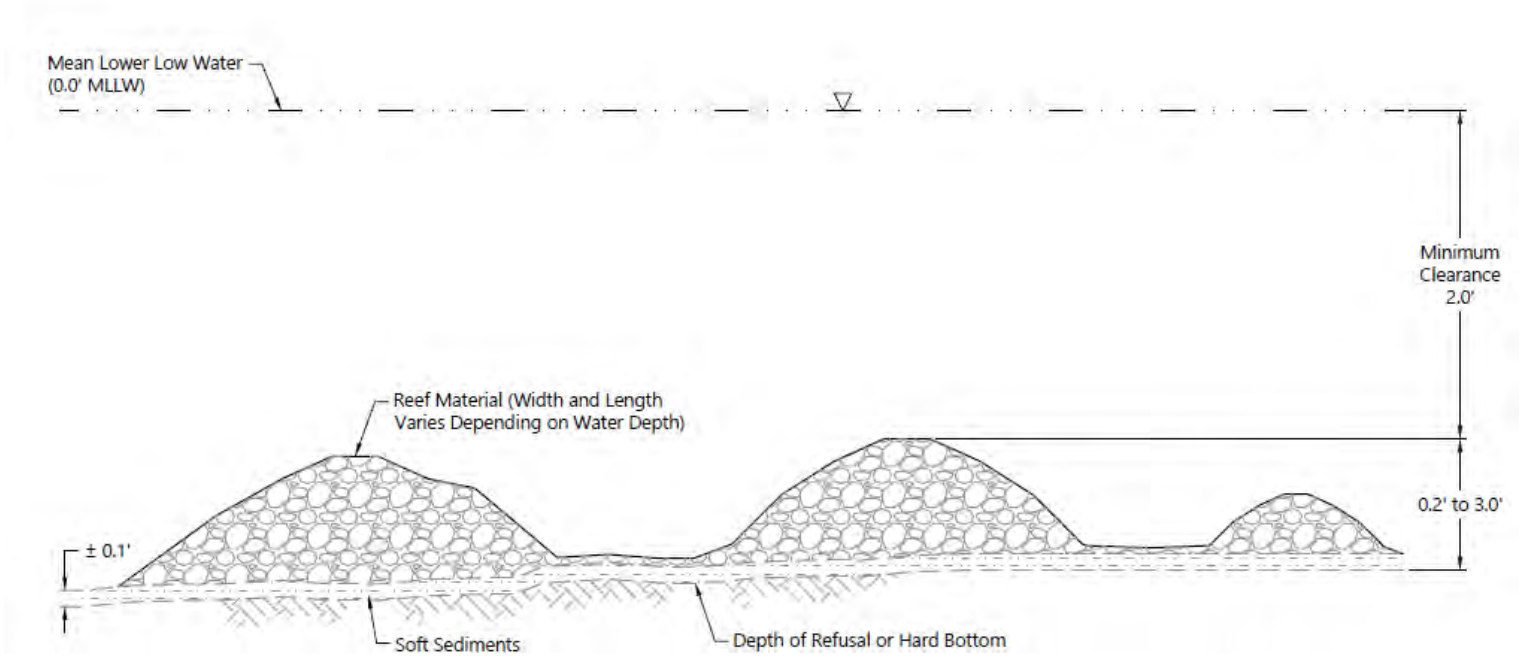
Graveline Bay

Back Bay of Biloxi and Vicinity

St. Louis Bay

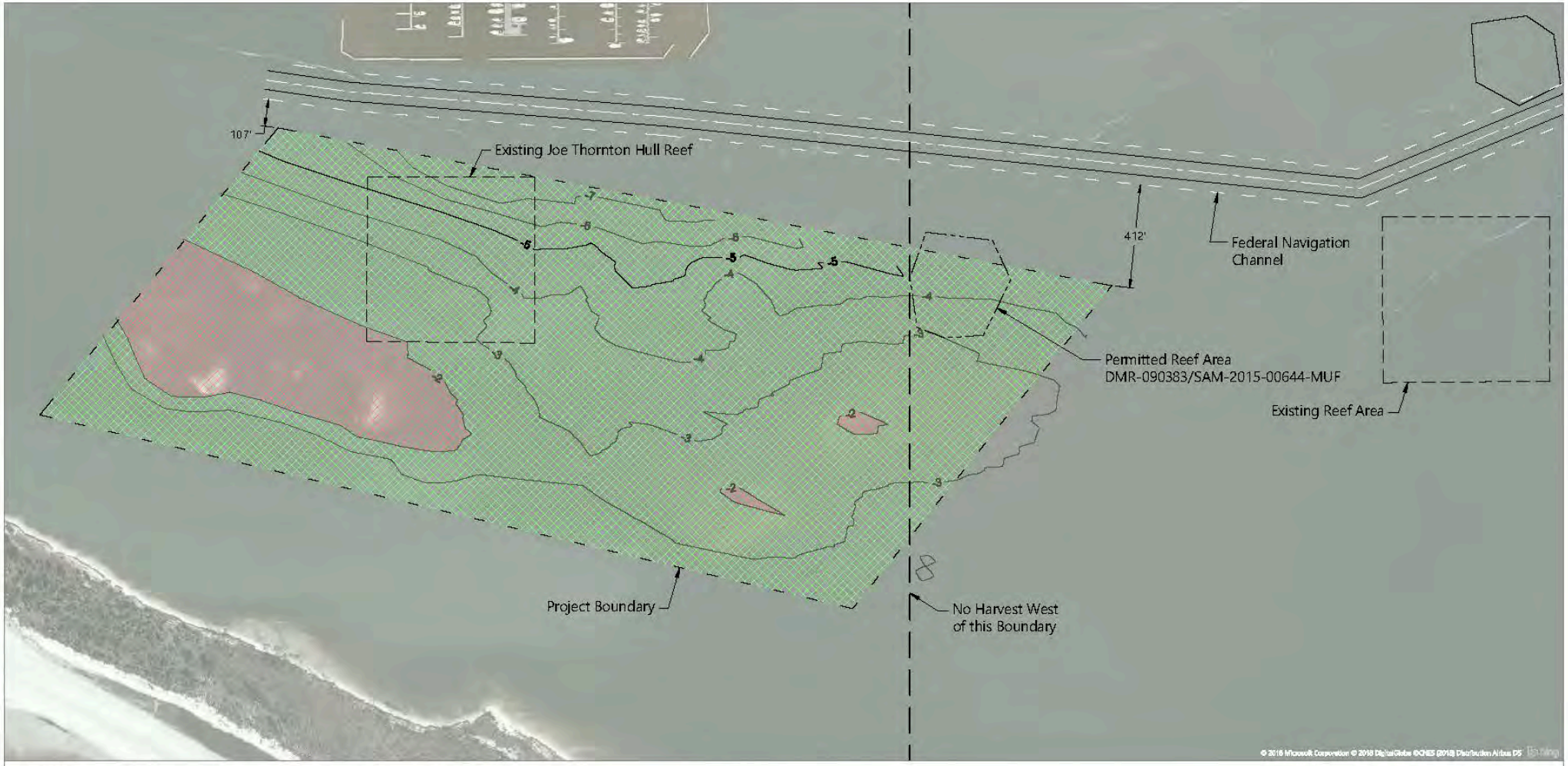

Deer Island
Back Bay of Biloxi and Vicinity
HARRISON COUNTY
JACKSON COUNTY
Graveline Bay
HANCOCK COUNTY
Gulfport
Biloxi
Pascagoula
Bay St. Louis
St. Louis Bay
Grand Bay
Restoring Living Shorelines and Reefs in Mississippi Estuaries
Overview
Project Area
Conceptual project design features represent generalized areas and are subject to refinement
N
0 5 10
Miles

Deer Island **90 –acre high relief Subtidal Reef**
Project Goal is
Restoration of lost Benthic Secondary Productivity



Typical Subtidal Reef Detail
Not to Scale

Mean Lower Low Water (MLLW)



SOURCE: Aerial image ©2018 Microsoft Corporation ©2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS . Survey provided by DIMCO dated June 28, 2016.
HORIZONTAL DATUM: Mississippi State Plane East, NAD83, U.S. Survey Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW)

NOTE: The proposed subtidal reef is located approximately 440' south of the Federal Navigation Channel and 200' west of the current reef project.

LEGEND:

-5 Bathymetric Contour in Feet (1' Interval)

No Reef Materials Placed Shallower than the -2' Contour

Potential Reef Placement - Areas Deeper than -2' MLLW Inside Project Boundary

0 400
Feet

Publish Date: 2018/11/09 4:43 PM | User: dholmer
Filepath: K:\Projects\1232-Mississippi Department of Environmental Quality\Mississippi Estuaries Living Shoreline\1232-RP-024 (Deer Island - BODR)\dwg\Fig 3.2 (BODR)

ANCHOR QEA

Figure 3.2
Deer Island Subtidal Reef

Basis of Design Report
Restoring Living Shorelines and Reefs in Mississippi Estuaries Project
Department of Environmental Quality

Proposed Cooperative Agreement Between MDEQ and MDMR

- Per the Consent Decree for the settlement with BP, the project requires a minimum of 5 years of post-construction performance monitoring, which will be made publicly available
- MDEQ is required to conduct biological monitoring of invertebrate infauna and epifauna biomass
- In order to meet the monitoring and project requirements, it is necessary to protect the project area from commercial and recreational harvesting and relay for the duration of the monitoring period (“Harvesting Moratorium”)
- To meet the Project Goals and to comply with the project requirements, MDEQ requests reef protection for a minimum of 5 years post construction or until end of monitoring period, which could be extended by no more than 2 years if performance criteria are not met
- Protection would be achieved through a Cooperative Agreement between MDEQ and MDMR approving the Harvesting Moratorium

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COOPERATIVE AGREEMENT OBJECTIVES

- Prohibit commercial and recreational shellfish harvesting and indirect harvest by relay in the project area.
- Minimum 5 year post-construction harvesting moratorium to allow for required monitoring.
- Extend the harvesting moratorium for an additional 2 years, if the performance criteria are not met within 5 years.

MDEQ RESPONSIBILITIES

- Project Implementation
- Notify MCMR/MDMR of date of completion of construction.
- Post-Construction Monitoring
- Obligated by Consent Decree and Project Restoration Plan to perform post-construction biological monitoring for a minimum of 5 years.
- After 5 years, notify the MCMR/MDMR of the necessity for an additional 2 year monitoring period.
- Provide periodic monitoring reports as conducted, but no less than 3 years and 5 years post-construction.
-

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MCMR/MDMR RESPONSIBILITIES

- Enforce a 5 year post-construction harvesting moratorium – to include commercial and recreational harvest and relay activities.
- Extend the harvesting moratorium for an additional 2 year period in the performance criteria outlined in Table 1 is not met within 5 years.

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Request for Permit by:
MS Department of Environmental Quality
File: DMR-190166

- Location: Just north of Deer Island in the Mississippi Sound, Harrison County, MS.
- Use District: Mostly (P) Preservation District with a bit of (G) General Use District and (S1) Special Use – Natural and Artificial Oyster Reefs
- Project Purpose/Need:
  - NRDA Early Restoration Project
    - Support secondary productivity
- Agent: Alane Young, Covington Civil and Environmental, LLC

Project Description

- **Subtidal reef creation:**
  - **Approximately 90 acres in the Mississippi Sound**

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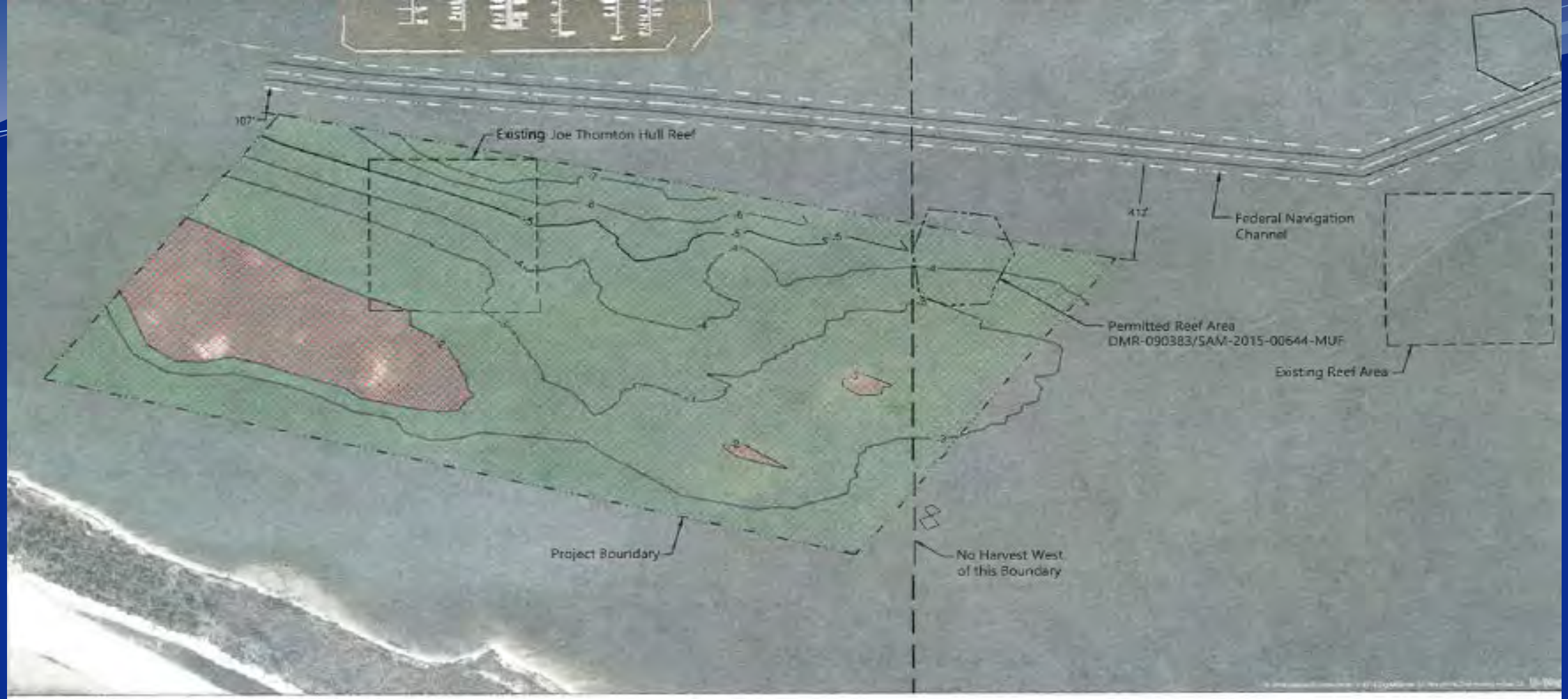


SOURCE: Aerial Image ©2018 Microsoft Corporation ©2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS. Survey provided by DMCO dated June 28, 2016
HORIZONTAL DATUM: Mississippi State Plane East, NAD83, U.S. Survey Feet
VERTICAL DATUM: Mean Lower Low Water (MLLW)

NOTE: The proposed subtidal reef is located approximately 440' south of the Federal Navigation Channel and 200' west of the current reef project.

LEGEND:

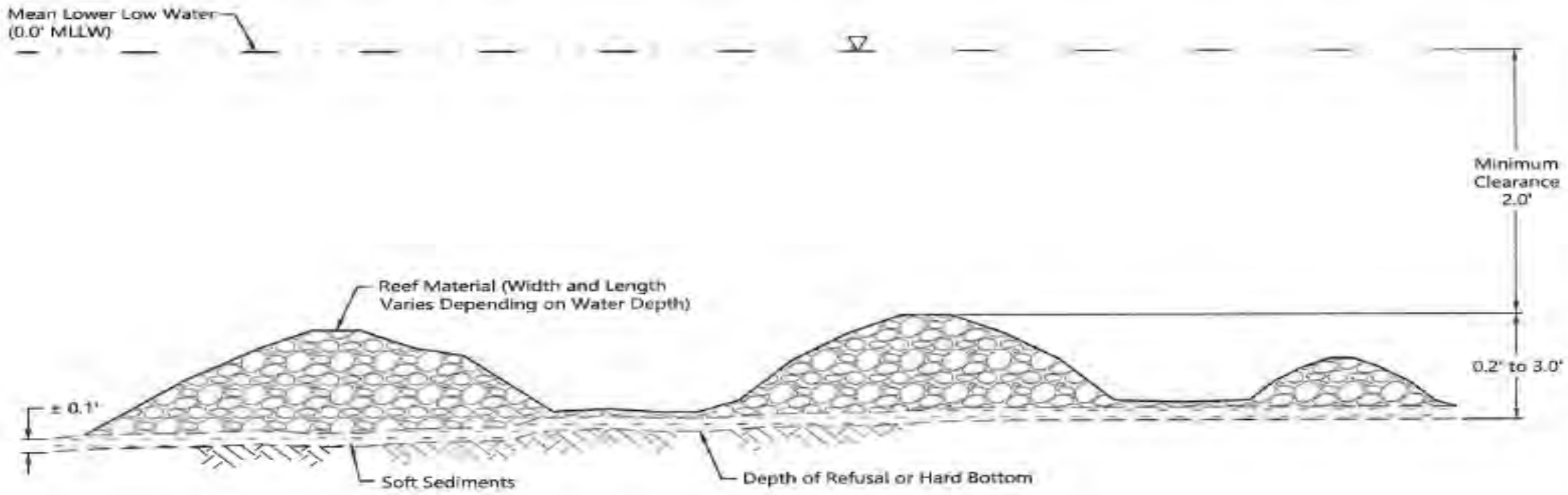
- Bathymetric Contour in Feet (1' Interval)
- No Reef Materials Placed Shallower than the -2' Contour
- Potential Reef Placement - Areas Deeper than -2' MLLW Inside Project Boundary

0 400 Feet

ANCHOR QEA

Figure 3.
Deer Island Subtidal Ree

Basis of Design Repo
Restoring Living Shorelines and Reefs in Mississippi Estuaries Proje
Department of Environmental Quali



Typical Subtidal Reef Detail
Not to Scale

Mean Lower Low Water (MLLW)

Publish Date: 2018/11/09 4:43 PM | User: cinolmier
Filepath: K:\Projects\1232 Mississippi Department of Environmental Quality\Mississippi Estuaries Living Shoreline\1232-RP-024 (Deer Island - BODR) dwg Fig 4 (BODR)

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Figure 4
Deer Island Subtidal Reef Typical Ridged Section

Basis of Design Report
Restoring Living Shorelines and Reefs in Mississippi Estuaries Project
Department of Environmental Quality

Project Description

continued

- The applicant has requested a variance to Chapter VIII, Section 2, Part III.O.1. of the MCP.
  - Permanent filling of Coastal Wetlands because of potential adverse and cumulative environmental impacts is discouraged.
- This variance request was justified under Ch. VIII, Sect. 2, Part I.E.2.c.i.
  - The Impacts on Coastal Wetlands would be no worse than if the guidelines were followed.

Public and Agency Notification

- Notification of this project appeared in *The Sun Herald* on December 23 and December 30, 2018, and January 6, 2019.
  - One public comment was received concerning the proposed location for the project

- MS DMR:
  - Coastal Preserves:
    - Approved the request to work within the riparian zone of Deer Island contingent on certain conditions
  - Marine Fisheries:
    - The project will positively impact the existing Joe Thornton Hull reef
    - MDMR and MDEQ should establish a formal agreement on what will happen to the site once the project and study is completed

Public and Agency Notification

cont.

- MS DEQ: Issued 401 Water Quality Certification on March 18, 2019
- MS DAH: Requested additional information on where the 45,000 cubic yards of cultch material would come from and what it would consist of
- MS SOS: No comment
- MS DWFP: If BMPs are implemented the proposed project likely poses no threat to listed species or their habitats

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Recommendation

- Based upon departmental review and evaluation based on the decision factors in Ch. 8, Sect. 2, Part I.E.2. of the MCP, it has been determined that the project will have a significant public benefit. Therefore, staff recommends that the CMR approve the variance request and issue the requested permit with the following conditions:
  - The project area should be re-checked for the presence of SAV during the growing season prior to implementation of the project.
  - The survey report should be submitted to the Bureau of Wetlands Permitting at least 30 days prior to project commencement
  - If SAV is found in the project area, a final review and approval by MDMR staff should be required prior to project commencement
  - A final as-built diagram should be provided to the Bureau of Coastal Preserves within 90 days of construction completion
  - Clearance from MDAH should be provided to the Bureau of Wetlands Permitting prior to commencement of construction

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Mississippi
Department of Marine Resources

Agency Financial Results

as of June 30, 2019

Commission on Marine Resources
July 16, 2019

Key Metrics:

- State Revenue of $31.8M

  -Waiting on Appropriations of $1M from Treasury

- Agency Revenue of $50.3M

- State Net Income of $19.8M

- Agency Net Income of $20.7M

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
Income Statement - Fiscal Year 2019
As of June 30, 2019

	State	Federal : NFWF:	Operating Subtotal	Tidelands	Total DMR
Revenue:					
Transfer in from Other Governments	-	37,837	37,837	10,000,000	10,037,837
Off-road Fuel Tax	3,050,000	-	3,050,000	-	3,050,000
Federal/NonFederal Grants	53,200	7,179,532	7,232,732	-	7,232,732
Sales Revenue	1,116,918	1,243	1,118,160	2,298	1,120,458
Indirect Cost Recovery	1,632,328	-	1,632,328	-	1,632,328
Other Revenue	25,994,415	792,597	26,787,012	446,593	27,233,605
Current Budget Year Revenue:	31,846,861	8,011,208	39,858,069	10,448,891	50,306,959
Expenditures:					
Salaries, Wages, Fringe	5,323,518	2,369,723	7,693,241	1,032,205	8,725,446
Travel	39,421	48,726	88,147	35,277	123,424
Contractual Services	3,347,912	1,353,752	4,701,664	846,306	5,547,970
Commodities	1,352,672	1,549,703	2,902,375	181,271	3,083,645
Other than Equipment	-	-	-	-	-
Equipment	420,506	499,896	920,402	53,658	974,060
Vehicles	-	127,640	127,640	-	127,640
Wireless Devices	351	433	785	274	1,058
Subsidies, Loans, and Grants	1,482,605	2,653,993	4,136,597	6,882,906	11,019,503
Current Budget Year Expenditures:	11,966,984	8,603,866	20,570,850	9,031,896	29,602,746
Current Budget Year Net Income/(Loss):	$19,879,877	$ (592,658)	$19,287,219	$ 1,416,995	$ 20,704,213

ENHANCE ★ PROTECT ★ CONSERVE

Financial Budget Comparison

- After twelve months of Fiscal Year 2019:

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
2019 Budget Comparison
As of June 30, 2019

	Actual Year to Date Expenditures			*Budget Year Totals*			*Percent Remaining*		
	Operating	**Tidelands**	**Total**	**Operating**	**Tidelands**	**Total**	**Operating**	**Tidelands**	**Total**
Expenditures:									
Salaries, Wages, Fringe	$ 7,693,241	$ 1,032,205	$ 8,725,446	$ 10,937,659	$ 1,112,526	$ 12,050,185	29.7%	7.2%	27.6%
Travel	88,147	35,277	123,424	325,487	45,000	370,487	72.9%	21.6%	66.7%
Contractual Services	4,701,664	846,306	5,547,970	9,602,848	1,512,590	11,115,438	51.0%	44.0%	50.1%
Commodities	2,902,375	181,271	3,083,645	3,380,674	450,000	3,830,674	14.1%	59.7%	19.5%
Equipment	920,402	53,658	974,060	1,359,408	225,000	1,584,408	32.3%	76.2%	38.5%
Vehicles	127,640	-	127,640	170,000	-	170,000	24.9%	0.0%	0.0%
Wireless Devices	785	274	1,058	6,250	500	6,750	87.4%	0.0%	84.3%
Subsidies, Loans, and Grants	4,136,597	6,882,906	11,019,503	18,180,150	11,325,308	29,505,458	77.2%	39.2%	62.7%
Total Expenditures:	$ 20,570,850	$ 9,031,896	$ 29,602,746	$ 44,032,561	$ 14,670,924	$ 58,703,485	53.3%	38.4%	49.6%

- Operating Funds have 53.3% of Budget remaining
- Tidelands Trust Fund has 38.4% of Budget remaining

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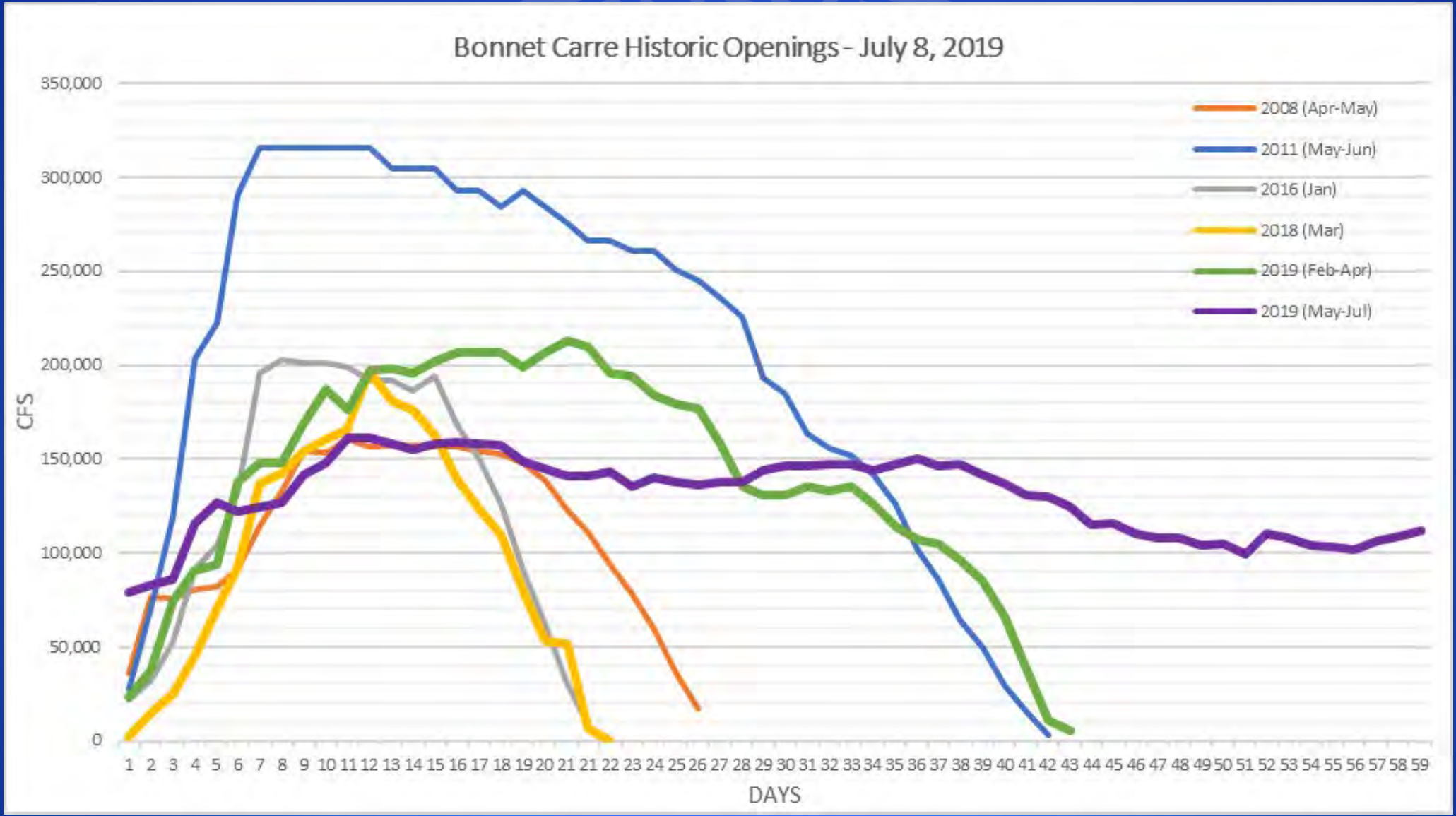
Bonnet Carré Spillway Update

Joe Jewell

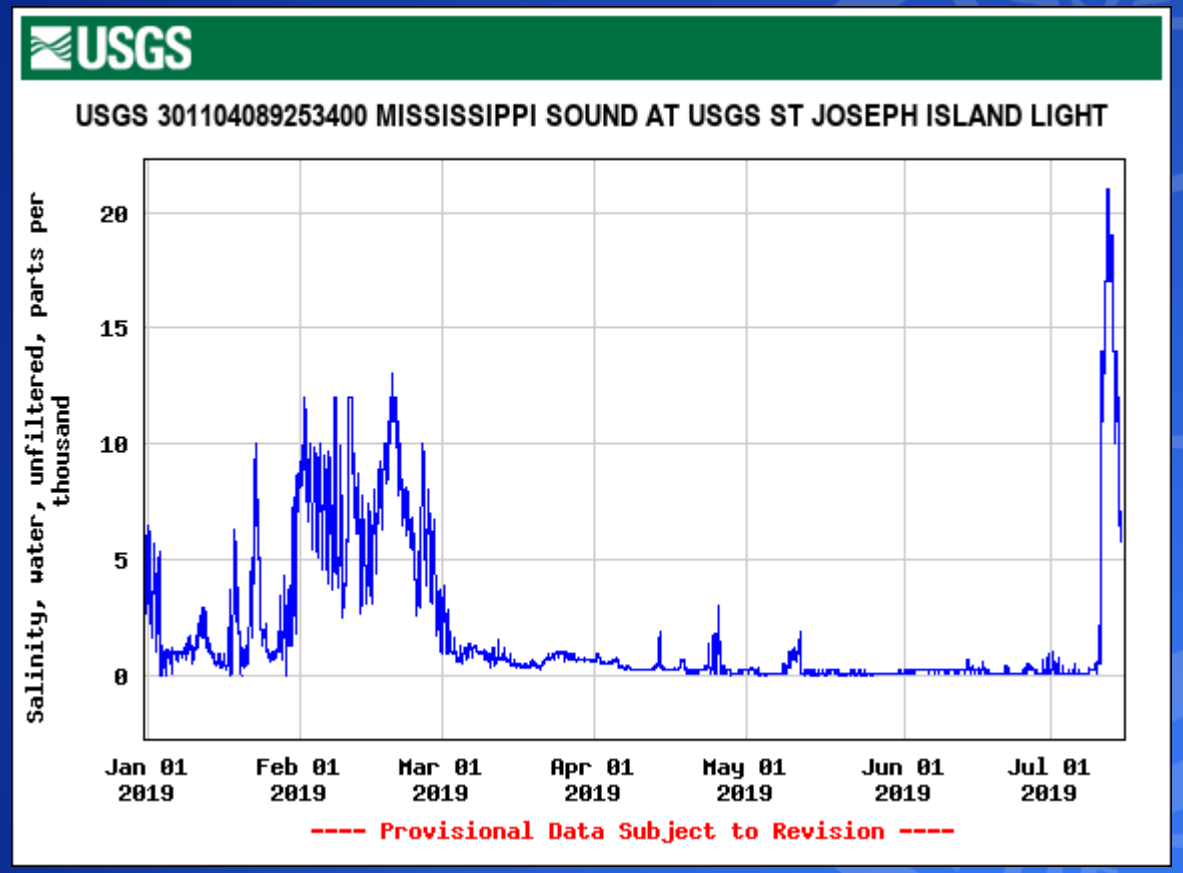
July 16, 2019

K.1.

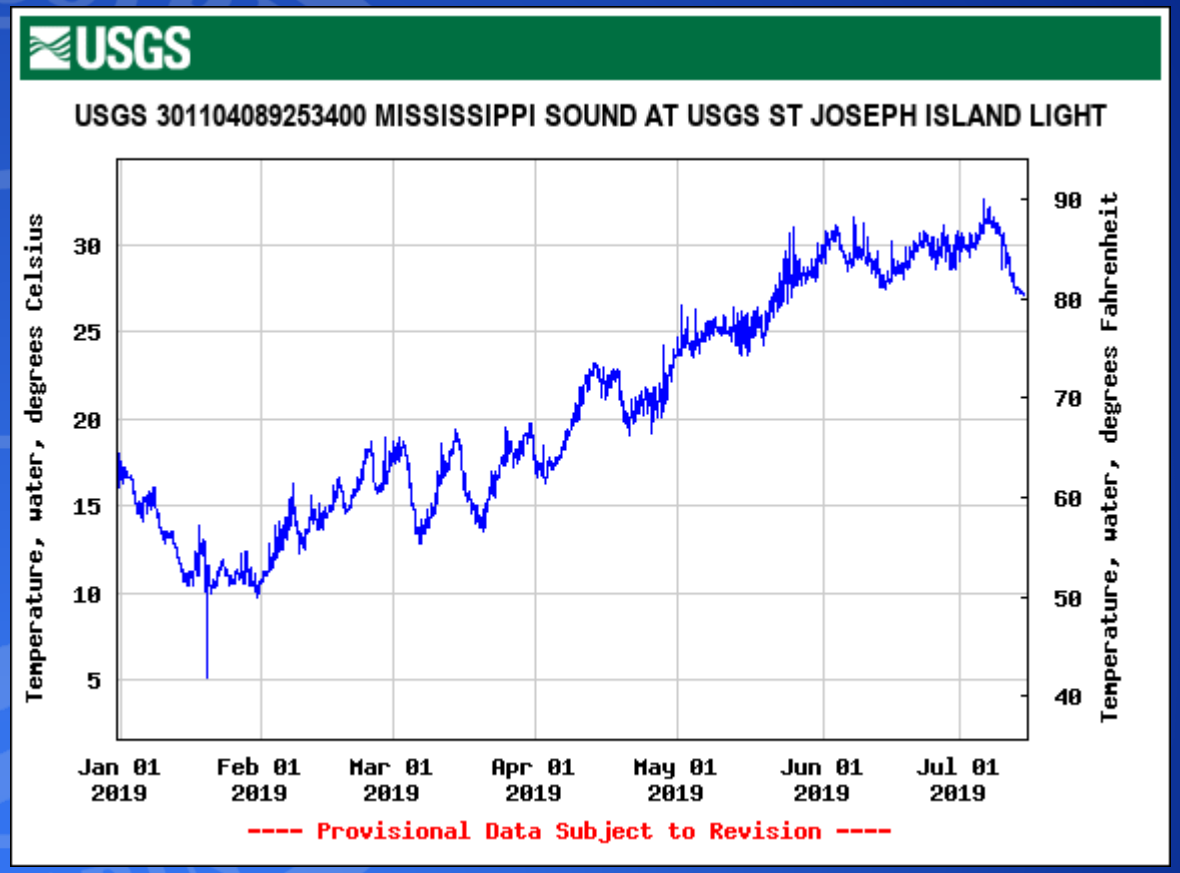
Bonnet Carré Spillway Gates and Flow Rate Update



MDMR/USGS Gauge at St. Joe, MS



Salinity



Temperature

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Western Sound Freshwater Algal Bloom

- An algal bloom, first reported to MDMR on June 12 in the Western MS Sound was identified as a freshwater blue green algae, *Dolichospermum* spp.
- On June 14 samples were sent to the NOAA Phytoplankton Monitoring Network in Charleston, SC, for testing of microcystin. Results indicated a concentration below the WHO 's and the EPA's guidelines for drinking water and recreational contact.
- Samples collected from the western Sound on June 19 contained *Dolichospermum* spp. and *Microcystis*, a producer of microcystin.
- On June 22, MDEQ issued its first set of beach closures for Hancock County. Additional closures of beaches east to Gulfport Central Beach have been issued.
- From June 24 to 26, the MDMR HAB Response Team received and analyzed 81 samples from the Mississippi Sound and beaches. An additional seven samples were shipped to NOAA for analysis of saxitoxins. The results received on June 28 indicate that all samples analyzed were below the limit of quantification.
- From July 1 to July 15, MDMR and MDEQ worked closely to monitor for the presence of cyanobacteria both near shore and off shore. *Microcystis* continued to persist within most samples collected.

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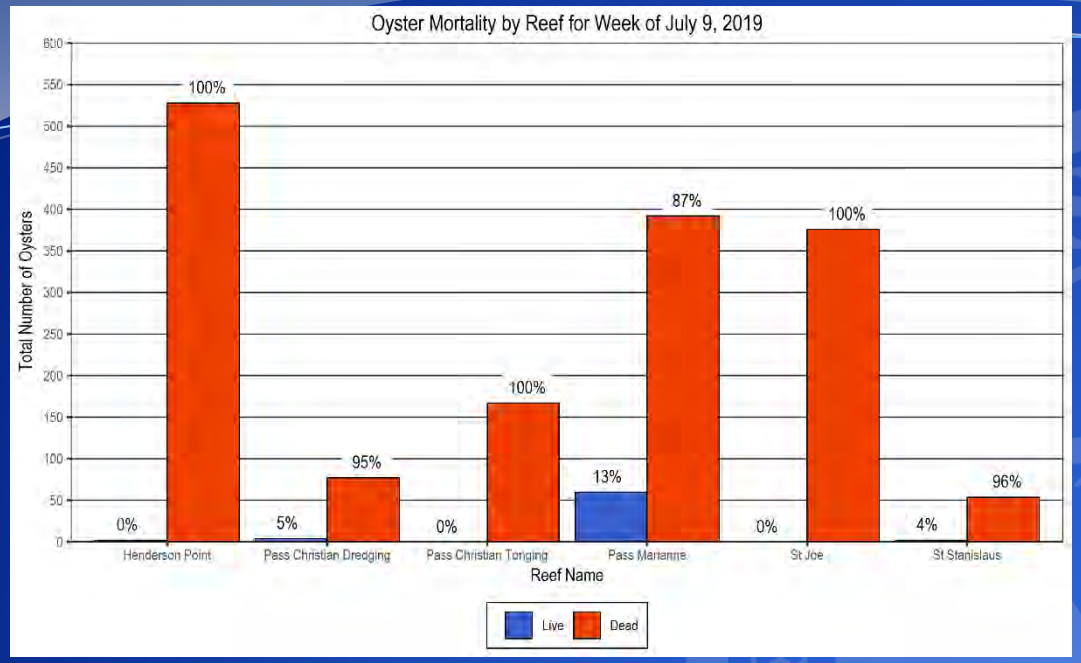
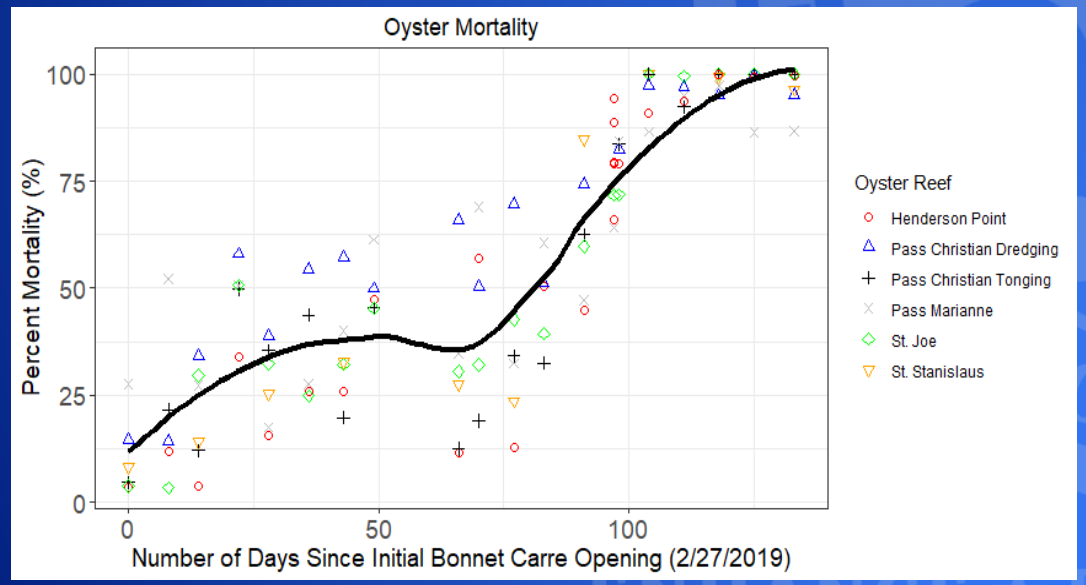
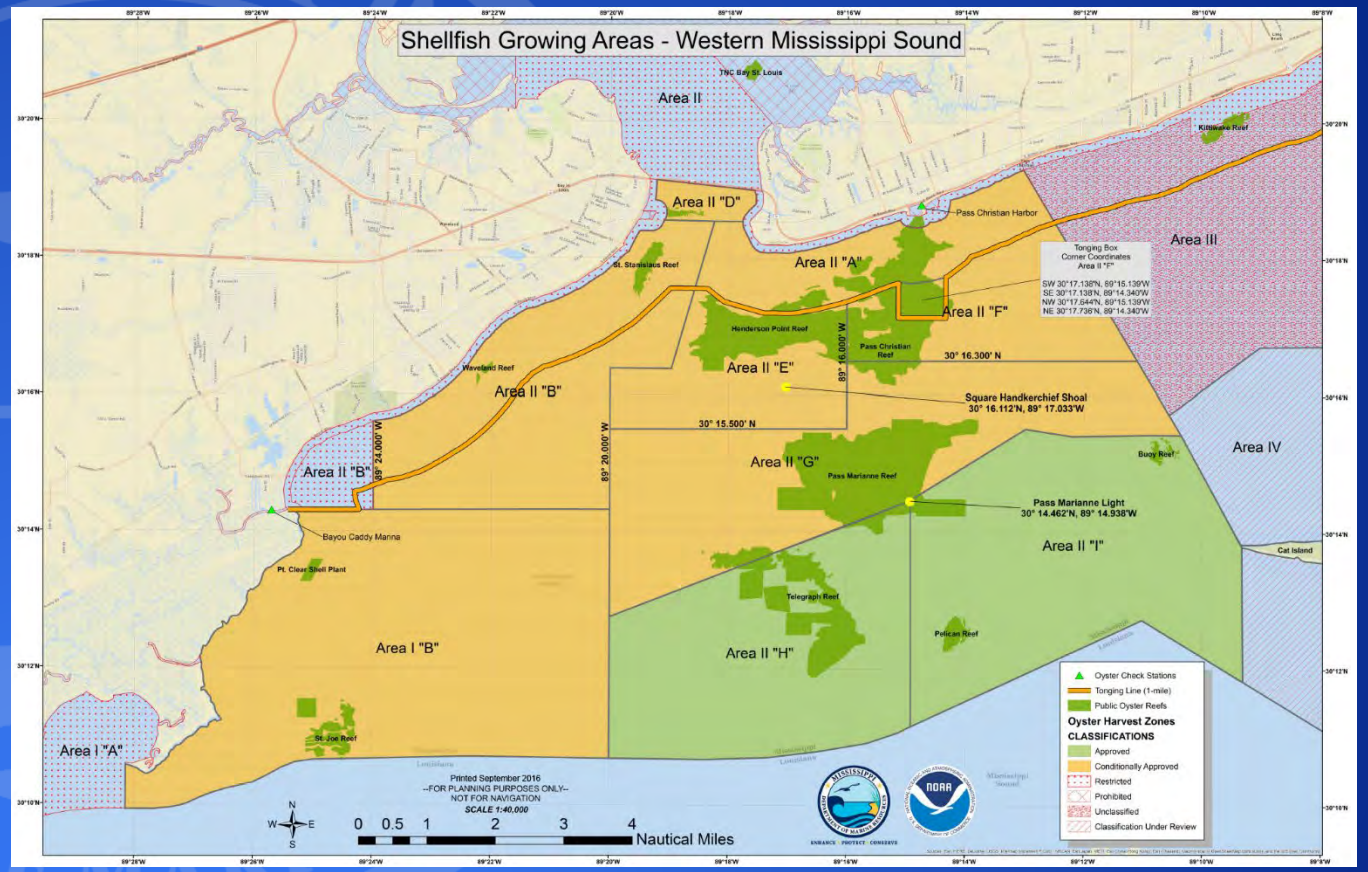
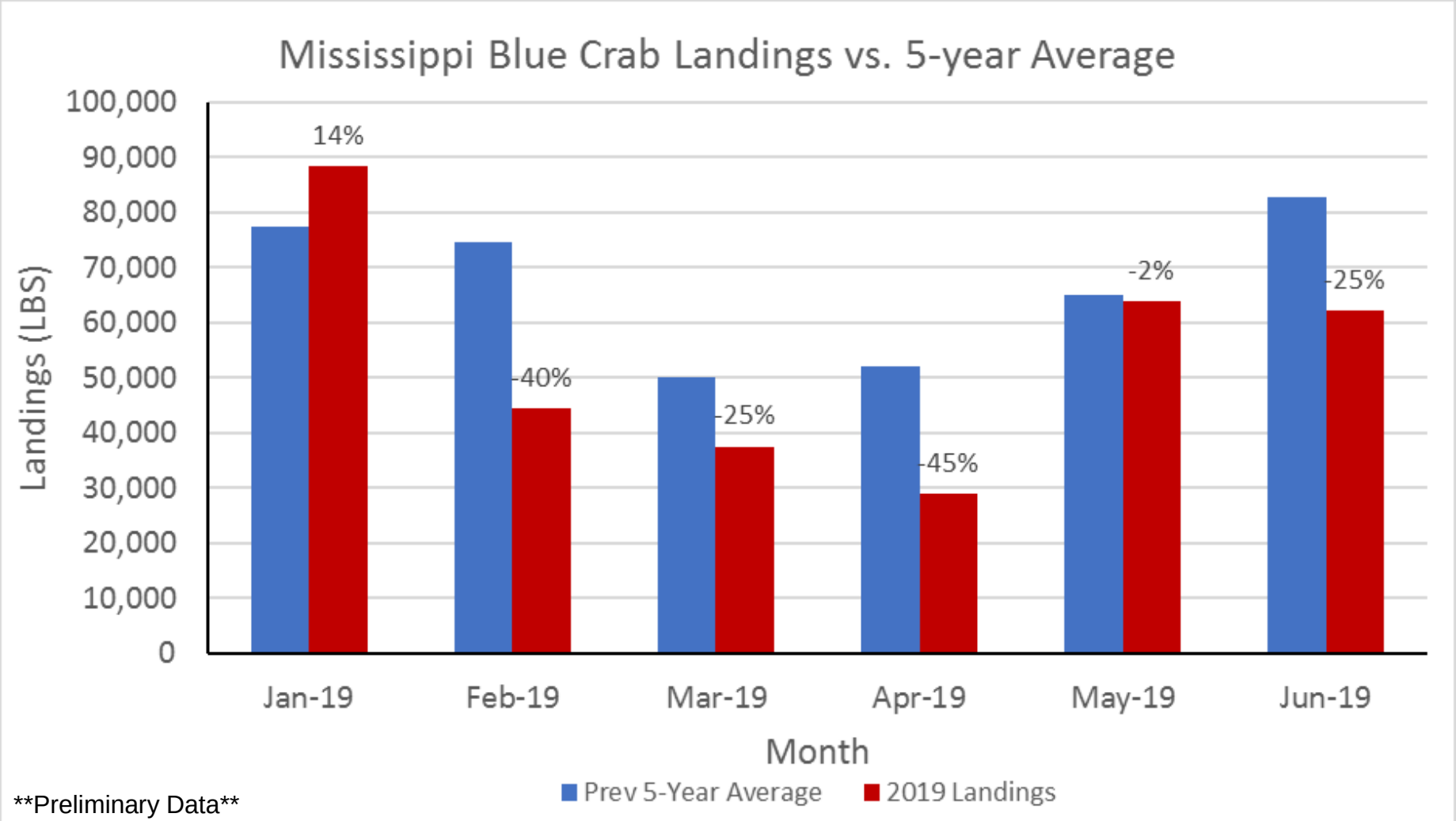
MDMR Shellfish Preliminary Field Data







MDMR Crab Impacts



Preliminary Data

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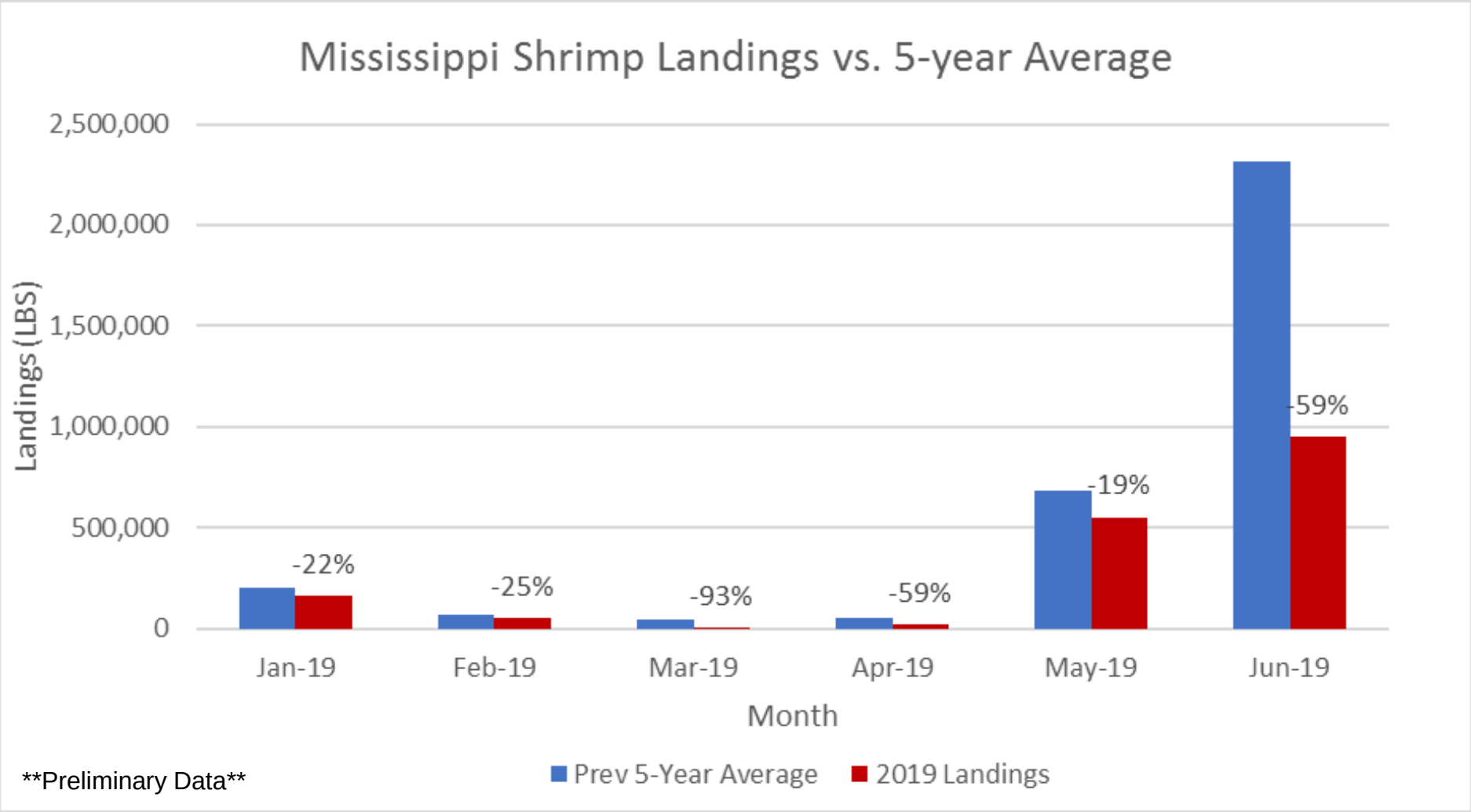
MDMR Shrimp Impacts



Preliminary Data

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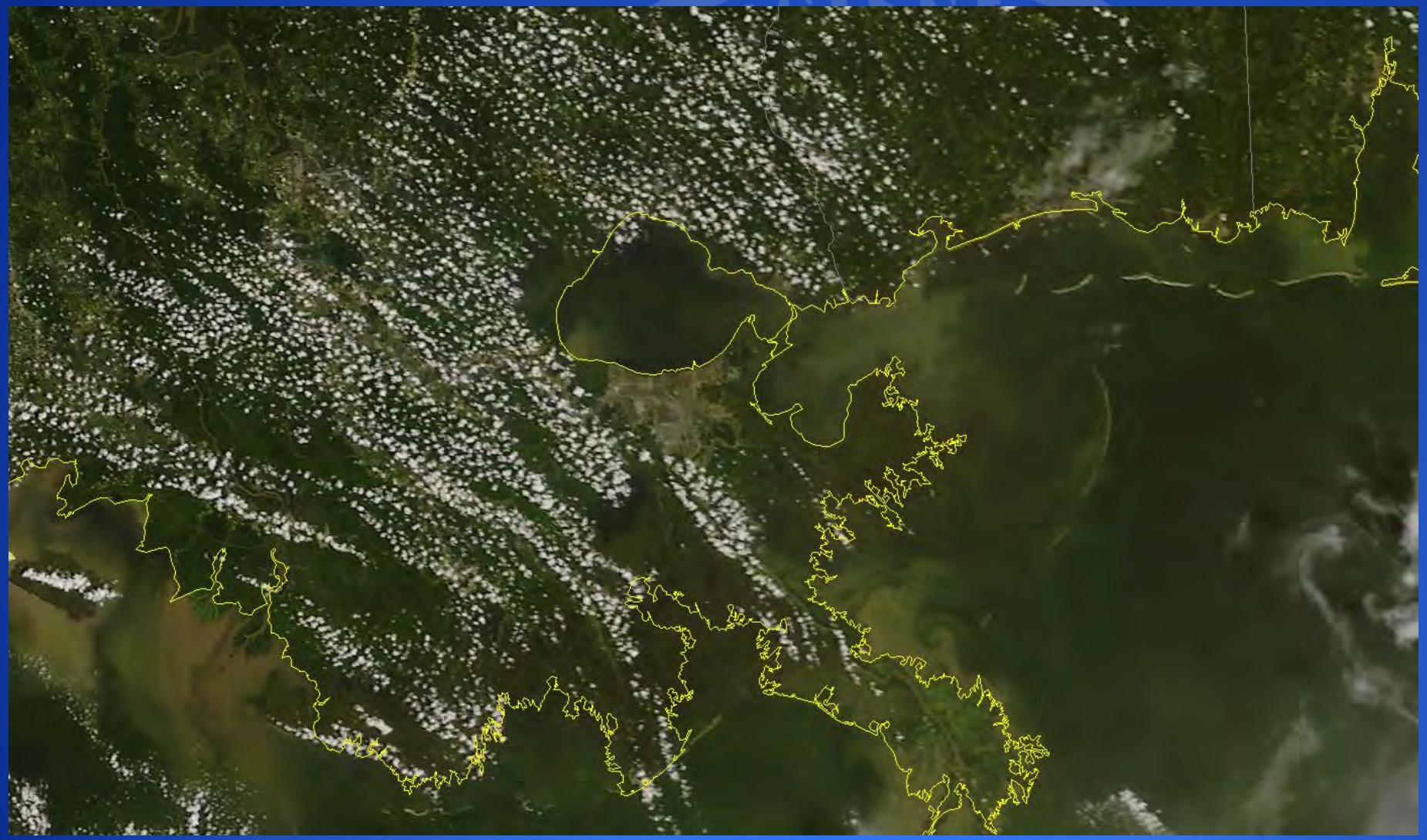
MODIS Satellite Imagery



July 7, 2019

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QUESTIONS?

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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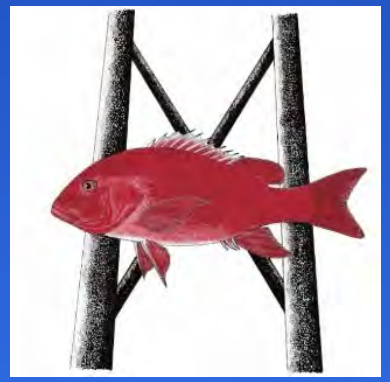
2019 Mississippi EFP Red Snapper Mid-Season Update



Commission of Marine Resources Meeting

Trevor Moncrief

July 16, 2019

K.2.

2019 Mid-Season Update (PR only)

2018 (Prior to July 9th closure)

- Harvest: 80,546 pounds
- Number Fish Harvested: 13,226
- Average Weight: 6.09
- Trips: 3,360
- Effort: 3.02 Anglers/Vessel/Trip
- Harvest: 1.30 Fish/Angler/Trip

2019 (Prior to July 8th closure)

- Total Harvest: 96,092 pounds
- Number Fish Harvested: 17,664
- Average Weight: 5.44 pounds
- Trips: 3,480
- Effort: 3.87 Anglers/Vessel/Trip
- Harvest: 1.31 Fish/Angler/Trip

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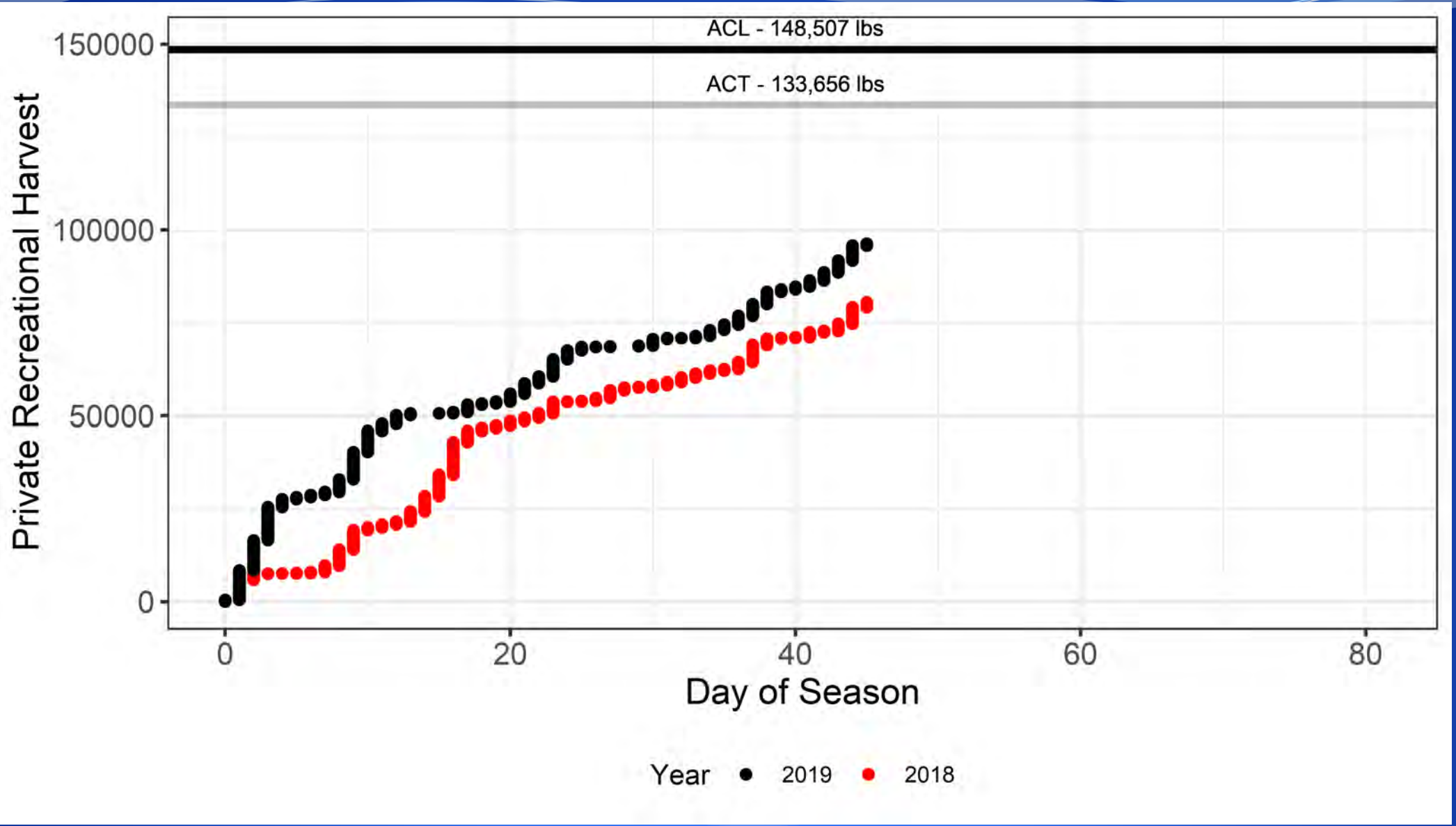

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QUESTIONS?

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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State Saltwater Finfish Record

Matt Hill

June 19, 2019

K.3.

Youth Division: Conventional Tackle

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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Youth Saltwater Fishing Record

Gray Snapper

Lutjanus griseus

New Record: 11 lbs. 15.2 oz.

Angler: Hudson Havard

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Required:

Motion to Adopt New State Record

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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