

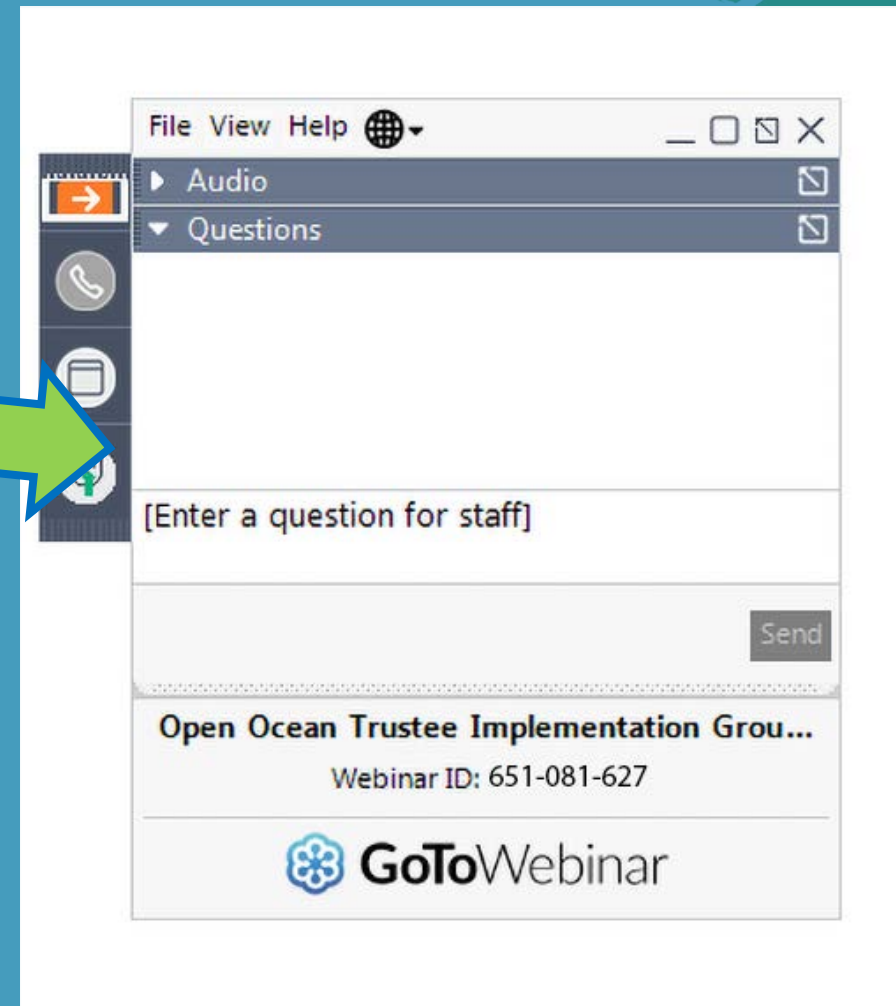


Open Ocean Trustee Implementation Group

Annual Meeting
December 12, 2019

Webinar Participation

- If you're using a phone, turn off your computer's microphone and speakers.
- When the Q&A session starts later, use the "Questions" box to type questions that you have for the Trustees.
- Presentation will be posted on www.gulfspillrestoration.noaa.gov.



Today's Agenda

- The Open Ocean Trustee Implementation Group (TIG).
- Open Ocean TIG Activities Update.
- Restoring Open Ocean Resources.
- How to Find More information.
- Questions and Answers.





Open Ocean Trustee Representatives



NOAA

USDA

EPA

DOI

Chris Doley

Ron Howard

Gale Bonanno

Debora McClain

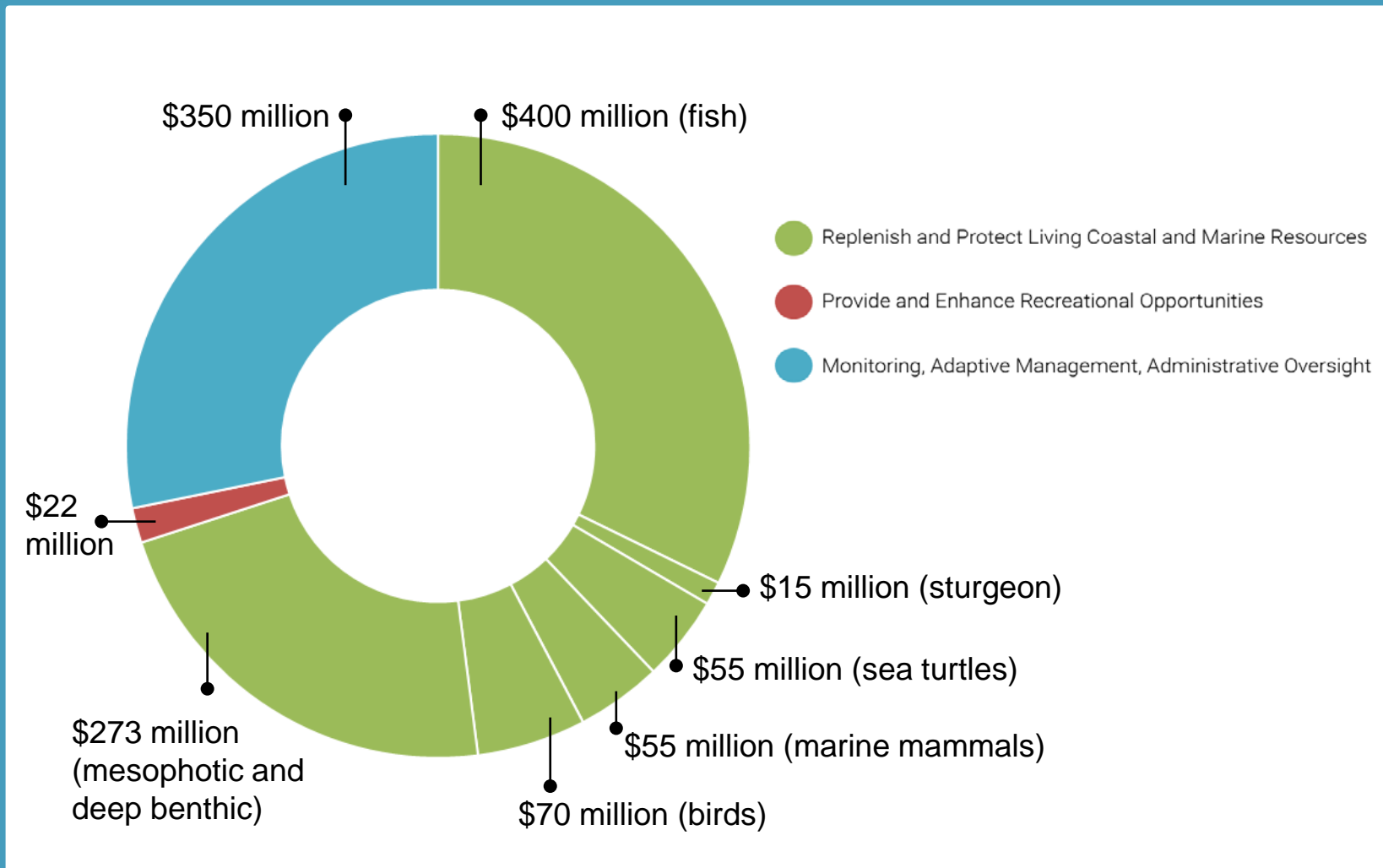
Laurie Rounds

Mark Defley

Treda Grayson

Ashley Mills

Open Ocean Restoration Area Funding





Open Ocean Activities Update

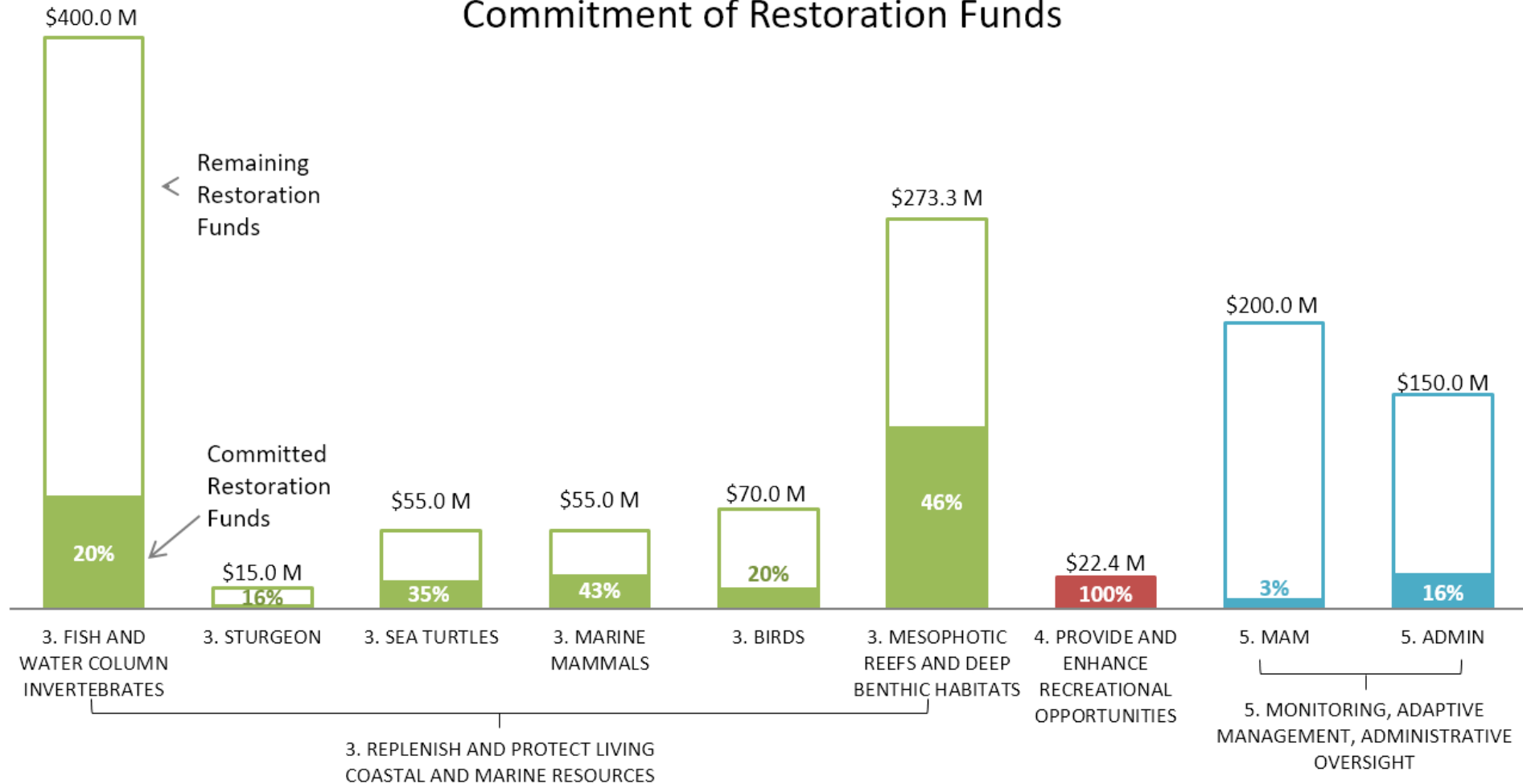
Overview of 2019 Activities

- Completed restoration plans for all six restoration types approving a total of 21 projects.
- Released the Open Ocean Monitoring & Adaptive Management (MAM) Strategy and conducted outreach.
- Approved three MAM Activities.
- Continued implementation of Early Restoration Projects.



Open Ocean Funding Update

Commitment of Restoration Funds



Monitoring & Adaptive Management Strategy

- **Open Ocean Monitoring and Adaptive Management (MAM) Strategy**
 - Processes to identify MAM priorities.
 - Priority MAM needs for restoration planning and evaluation.
 - Strategy documents will be released over time.
- **Developing MAM Priorities**



Monitoring & Adaptive Management Stakeholder Outreach

2019

- Gulf of Mexico Oil Spill Ecosystem and Science Conference (GoMOSES)
- Open Ocean Restoration Plan 2 Draft Public Meeting

2020 upcoming

- GoMOSES Conference: February





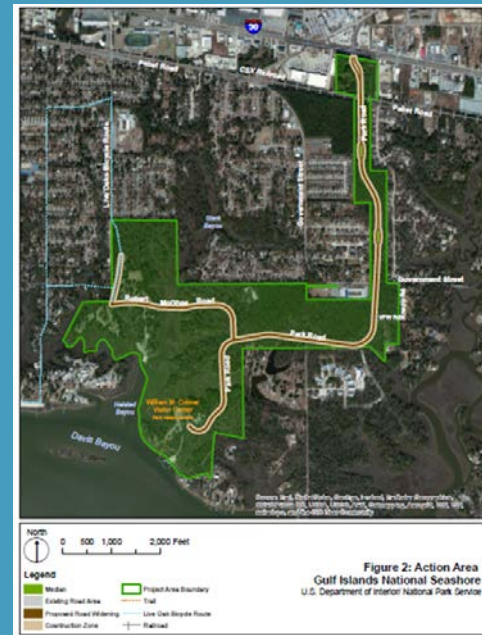
Open Ocean Restoration

Goal: Provide and Enhance Recreational Opportunities



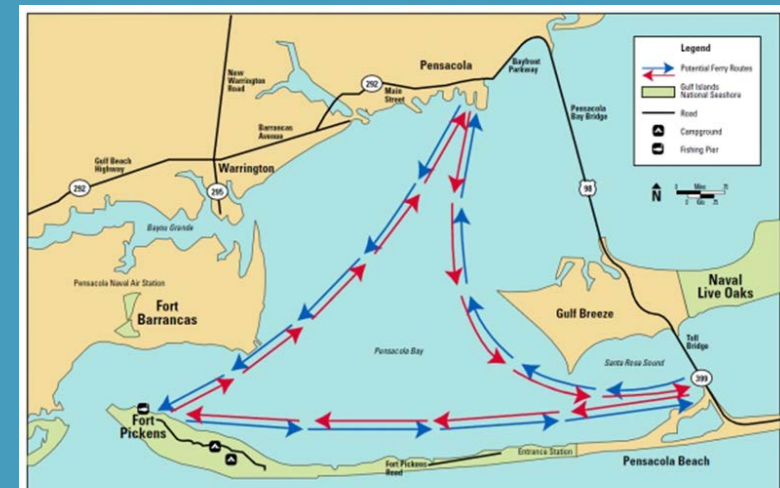
Enhancing Recreational Opportunities

- Gulf Islands Beach Enhancement, \$10.8M **(in progress)**.
- Gulf Islands Bike & Pedestrian Use Enhancement, \$7M **(in progress)**.
- Bon Secour NWR Trail Enhancement, \$545K **(monitoring)**.
- Gulf Islands Ferry Project, \$4M **(complete)**.



Project Highlight: Gulf Islands Ferry Project

- Purchased two pedestrian visitor ferries for use between Pensacola, Pensacola Beach and Fort Pickens area in Florida.
- Status: Complete; Ferries in operation.



Proposed Gulf Islands National Seashore Ferry Purchase and Service Project ferry routes and destinations



Open Ocean Restoration

Goal: Replenish and Protect Living Coastal and Marine Resources



Reducing Bycatch and Mortality

- Oceanic Fish Restoration Project, \$20M (in progress).
- Restoring for Bluefin Tuna via Fishing Depth Optimization, \$6.1M (approved in RP2).
- Better Bycatch Reduction Devices, \$17.1M (approved in RP2).
- Reduction of Post-release Mortality from Barotrauma, \$30M (approved in RP2).
- Communication Networks and Mapping Tools to Reduce Bycatch—Phase 1, \$4.4M (approved in RP2).

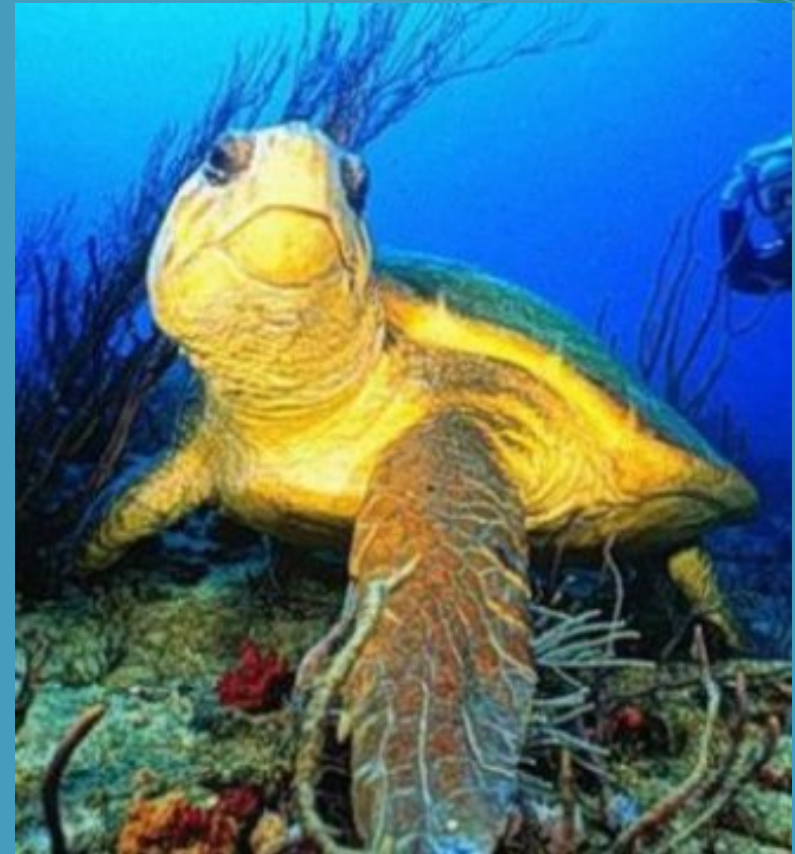


Photo: © Jay Fleming



Reducing Bycatch and Mortality

- Identifying Methods to Reduce Sea Turtle Bycatch in the Reef Fish Bottom Longline Fishery, \$290K (approved in RP2).
- Reducing Juvenile Sea Turtle Bycatch Through Development of Reduced Bar Spacing in Turtle Excluder Devices (TEDs), \$2.2M (approved in RP2).

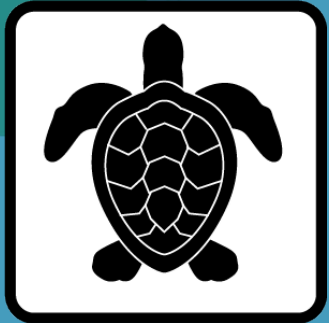


Project Highlight: Increased Engagement With Shrimp Industry

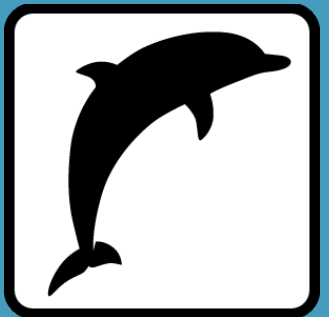
Improved and increased fisheries stakeholder engagement:

- Project: Reducing Juvenile Sea Turtle Bycatch Through Development of Reduced Bar Spacing in Turtle Excluder Devices (TEDs).
- Project: Better Bycatch Reduction Devices for the Gulf of Mexico Commercial Shrimp Trawl Fishery.

Addressing Restoration Planning Needs



- Gulf of Mexico Sea Turtle Atlas, \$5.7M (approved in RP2).
- Developing a Gulf-wide Comprehensive Plan for In-water Sea Turtle Data Collection, \$655K (approved in RP2).
- Developing Methods to Observe Sea Turtle Interactions in Gulf of Mexico Menhaden Purse Seine Fishery, \$3M. (approved in RP2).



- Compilation of Environmental, Threats, and Animal data for Cetacean Population Health Analyses, \$5.8M (approved in RP2).



Reducing Impacts from Stressors

- Reduce Impacts of Anthropogenic Noise, \$8.9M (approved in RP2).
- Reduce and Mitigate Vessel Strike Mortality, \$3.8M (approved in RP2).
- Reducing Impacts to Cetaceans during Disasters by Improving Response Activities, \$4.2M (approved in RP2).





Habitat Protection and Management

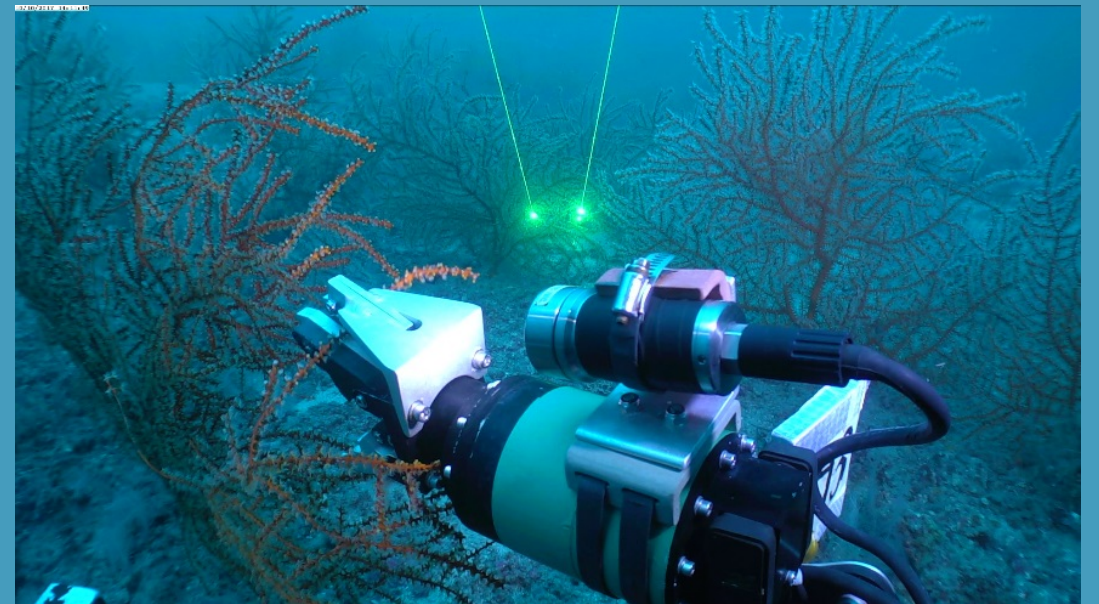
- Mapping, Ground-truthing, and Predictive Habitat Modeling, \$35M (approved in RP2).
- Habitat Assessment and Evaluation, \$52.6M (approved in RP2).
- Coral Propagation Technique Development, \$16.9M (approved in RP2).
- Active Management and Protection, \$20.6M (approved in RP2).



Project Highlight: Mesophotic & Deep Benthic Communities

Project Phasing

- Initial 1-2 year implementation planning period.
 - Strategic Planning.
 - Adaptive Management Plan.
 - Coordinated management of cross-cutting project requirements.
 - Public Engagement Plan.
- 5 year implementation
- Final year reporting



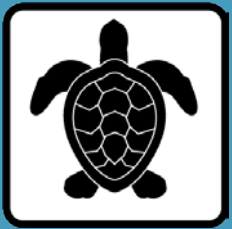
Habitat Protection & Management



- Restoration of Common Loons in MN, \$7.5M (in progress).
- Restoration of Black Terns in N & S Dakota, \$6.2M (in progress).



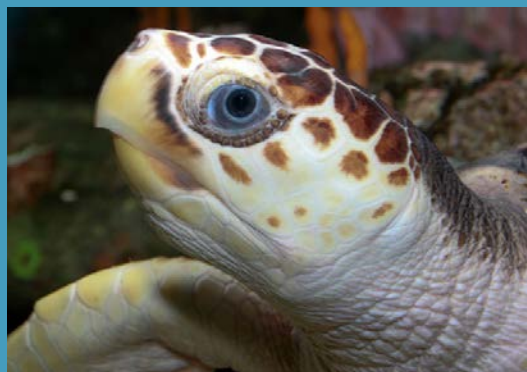
- Characterizing Gulf Sturgeon Spawning Habitat, Habitat Use and .
- Origins of Juvenile Sturgeon in the Pearl and Pascagoula River Systems, \$2.1M (in progress).



- Long-term Nesting Beach Habitat Protection for Sea Turtles, \$7M (approved in RP2).



Project Highlight: Sea Turtle Long-term Nesting Habitat Protection

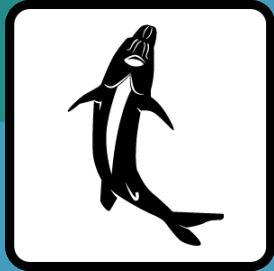




Open Ocean Restoration

Goal: Monitoring and Adaptive Management

Addressing Monitoring & Adaptive Management Needs



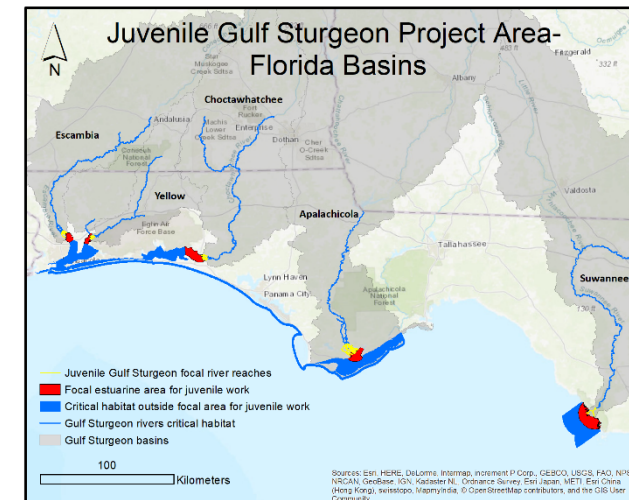
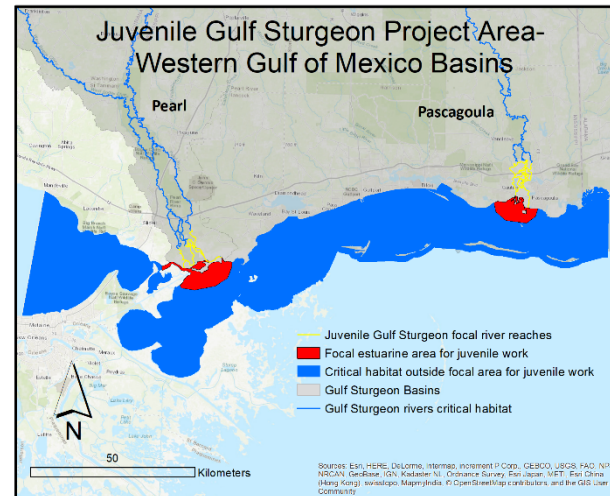
- Juvenile Gulf Sturgeon—Gulf-wide Population Dynamics and Habitat Use, \$2M **(in progress)**.
- Informing Gulf Sturgeon Population Status and Trends as a Baseline to Evaluate Restoration, \$910K **(in progress)**.



- Evaluating the Cumulative Impact of Multiple Stressors on Cetaceans, \$3.5M **(in progress)**.

MAM Activity Highlight: Juvenile Sturgeon

- Identifying important estuarine and riverine habitats (7 river systems).
- Revealing trends in recruitment, growth, and survival.
- Examining genetics and kinship.



MAM Activity Highlight: Gulf Sturgeon Population Status & Trends

- Compiling historical and ongoing Gulf sturgeon monitoring data.
- Estimating Gulf sturgeon abundance, population change, and extinction probability.
- Developing a standardized data collection and storage program for Gulf sturgeon.

The screenshot displays the dashboard for the Gulf Sturgeon Encounter History Database. At the top, it reads "Dashboard: The Gulf Sturgeon Encounter History Database" and "Custom-designed software to manage mark-recapture and related data generated by the Gulf Sturgeon Working Group". Below this, it states "The Gulf Sturgeon Working Group is a collaboration of state, federal, and university cooperators." and features artwork of sturgeon. The dashboard is divided into two main sections: "Field Crew Options" and "Administrator Options".

Field Crew Options:	Administrator Options:
Manage Fish Histories	Manage Mark Inventory
Manage Telemetry Data	Data Checking Options
Exportable Data Summaries	Add To/Edit Lists (e.g., Systems)
Build Encounter Histories	Show / Hide MS Access Ribbon
	Refresh Back-End Data File Links
	View Database Relationships

At the bottom of the dashboard, there is a footer area containing the Insight logo with the tagline "Everything good starts small." and "Jane Jacobs". To the right, it shows "DB User" information: "Andre R. Breton (ARB, Insight Database Design and Consulting)" with a dropdown arrow. Further right is an "Exit" button.



For More Information

[Website, Interactive Map](#)

Where to Find More Information



The screenshot shows the homepage of the Gulf Spill Restoration website. At the top, the title "GULF SPILL RESTORATION" is displayed in large, bold, black letters. Below the title, a row of logos for various organizations is shown, including NOAA, EPA, and USDA. A subtitle reads "Website maintained by NOAA on behalf of the Deepwater Horizon Natural Resource Damage Assessment Trustees". A navigation menu is located below the subtitle, with "Home" highlighted in green. Other menu items include "About Us", "How We Restore", "Restoration Areas", "Data", and "Media & News". A search bar with the text "Google Custom Search" is on the right. The main content area features a large underwater photograph of a fish swimming over a coral reef. Overlaid on the image is the text "\$226 Million in Projects Approved in Second Open Ocean Restoration Plan" and a "LEARN MORE" button. Below the image, the heading "Restoration Areas" is centered. Underneath, there are seven circular icons representing different restoration areas: Alabama, Florida, Louisiana, Mississippi, Texas, and Region-wide Open Ocean.

GULF SPILL RESTORATION

Website maintained by NOAA on behalf of the Deepwater Horizon Natural Resource Damage Assessment Trustees

Home About Us How We Restore Restoration Areas Data Media & News Google Custom Search

\$226 Million in Projects Approved in Second Open Ocean Restoration Plan

LEARN MORE

Restoration Areas

Alabama Florida Louisiana Mississippi Texas Region-wide Open Ocean

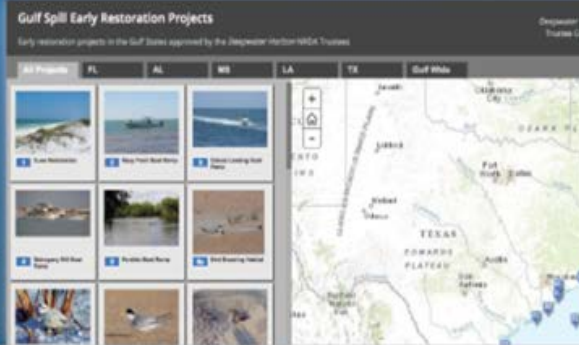
www.gulfspillrestoration.noaa.gov

How to Access Open Ocean Project Information

Projects Near You

Explore our **interactive map** to see details on restoration projects.







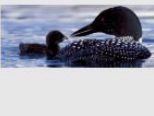




[View Project Details](#)

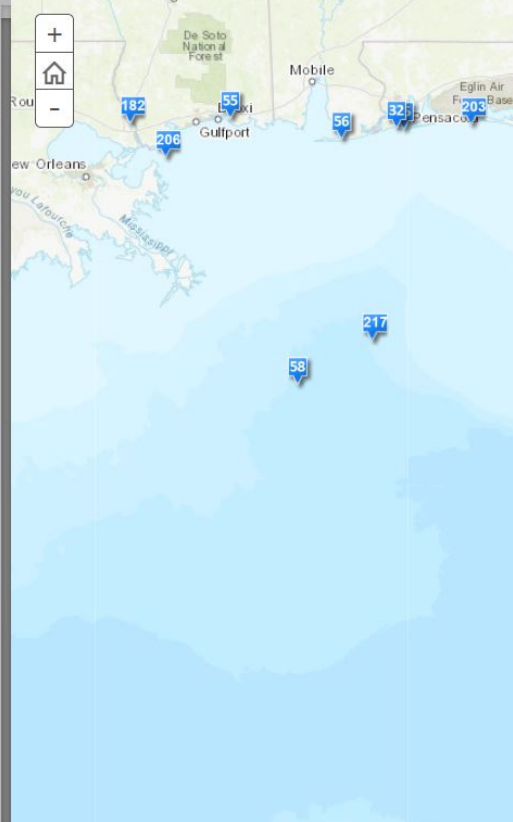


Gulf Spill Restoration Projects

Restoration projects in the Gulf States approved by the *Deepwater Horizon* NRDA Trustees

All Projects FL LA AL MS TX Regionwide Open Ocean

 <p>15 Remove asphalt scattered on beaches by storms - Florida</p>	 <p>32 Passenger ferry to Gulf Islands National Seashore</p>	 <p>55 Bike and Pedestrian Enhancements</p>
 <p>56 Trail Enhancement</p>	 <p>58 Reducing bycatch to restore open-ocean fish</p>	 <p>182 Gulf Sturgeon Spawning Habitat Characterization</p>
 <p>186 Restoration of Common Loons in Minnesota</p>	 <p>188 Restoration of Black Terns in North and South Dakota</p>	 <p>203 Gulf Sturgeon Population Status and Trends</p>
 <p>206 Juvenile Gulf Sturgeon Gulf-Wide Population Dynamics and Habitat Use</p>	 <p>217 Evaluating the Cumulative Effects of Multiple Stressors on Oceanic Cetaceans</p>	



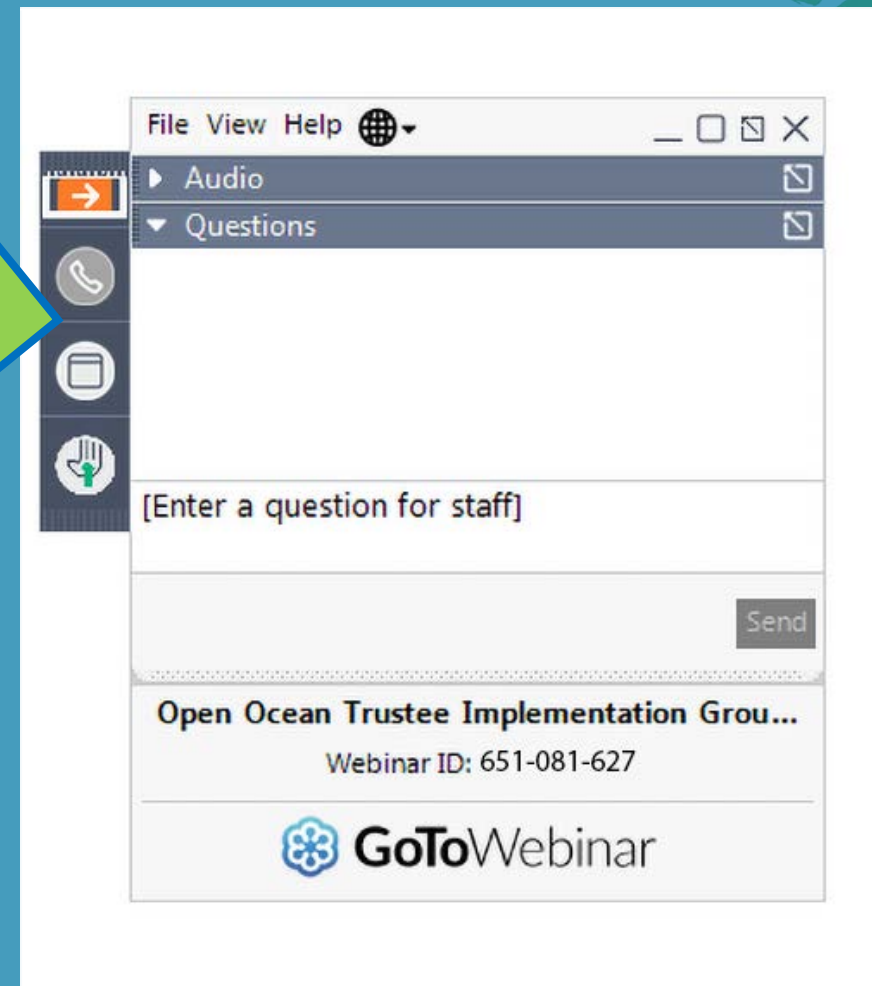
www.gulfspillrestoration.noaa.gov



Questions?

Questions

- Please type your questions in the "Questions" box.
- We may not get to them all.





Thank you



Get the latest **news updates** from
the *Deepwater Horizon* Trustees

Sign Up Now

www.gulfspillrestoration.noaa.gov