Information for Gulf Consortium Meeting May 17, 2013

Welcome to the Florida Keys Reception May 16, 2013 5:30 pm – 7:00 pm EDT Lobby of Murray Nelson Government Center 102050 Overseas Highway Key Largo, Fl 33037

Gulf Consortium Meeting
May 17, 2013 9:00 am – 2:00 pm EDT
Murray Nelson Government Center
102050 Overseas Highway
Key Largo, Fl 33037

Hotels for Meeting:

Hampton Inn Key Largo 102400 Overseas Highway Key Largo, Fl 33037 305-451-1400 (government rates)

About a mile away:

Key Largo Bay Resort Marriott 103800 Overseas Highway Key Largo, Fl 33037 Holiday Inn Key Largo 99701 Overseas Highway Key Largo, FL 33037 305-451-2121 http://www.holidayinnkeylargo.com/

Courtyard Key Largo - Marriott 99751 Overseas Highway Key Largo, FL 33037 305-451-3939

http://www.marriott.com/hotels/travel/mthcy-courtyard-key-largo/



Gulf Consortium Agenda May 17, 2013 9:00 a.m.-2:00 (EDT)

Murray Nelson Government Center 102050 Overseas Highway Key Largo, Fl 33037

- 1. Call to Order
- 2. Pledge of Allegiance
- 3. Consent Agenda
 - a. Minutes Approval
 - b. Updated List of Directors/Alternates
 - c. Financial Report
- 4. Procurement Partnership with Leon County
- 5. Discussion of U.S. Treasury Rules
- 6. Update of Legislative Actions and Memorandum of Understanding (MOU) with

Executive Office of the Governor

- 7. Update by Chair Robinson and Doug Darling on meeting with NFWF
- 8. Presentation by Mr. Ben Scaggs, Director, Gulf of Mexico Program, US Environmental Protection Agency
- 9. Supervisor Connie Rockco, Harrison County Board of Supervisors
- 10. Mayor George Neugent introduction to Monroe and Florida Keys
 - a. Billy Causey, Florida Keys National Marine Sanctuary
 - b. Dr. Jerry Ault, Marine Ecosystem and Impact on Economy
 - c. Dr. James Byrne, TNC Florida Keys coral reef conservation/Florida Keys issues
 - d. Dr. Jerry Lorenz, Audubon Florida, Watershed Impairment
- 11. Working Lunch



- 12. Presentation by TJ Marshall, Ocean Conservancy/David White, National Wildlife Federation, Healthy Marine Fisheries
- 13. Mr. Keith Wilkins, Escambia County, Watershed Multi County Coordination
- 14. Mr. Brett Boston, Wildlife Foundation of Florida, Mitigation Bank
- 15. Update/Questions Kevin Claridge, Director, Coastal & Aquatic Managed Areas, FDEP
- 16. Federal Council guidance discussion, if received
- 17. New Business
 - a. Proposal to Establish a Committee of Fifteen Non-disproportionately Affected Counties
- 18. Public Comment
- 19. Adjourn

Gulf Consortium

May 17, 2013

Agenda Item # 5 Discussions of U.S. Treasury Rules

<u>Statement of Issue or Executive Summary:</u> U.S. Treasury Rules (Rules) implementing the RESTORE Act will have significant impact on the Gulf Consortium's and Counties' abilities to adequately develop the respective Comprehensive Plans.

Background: Due to the delay in receiving the Rules, there is the opportunity to make known the Consortium's/Counties' desires and present a unified message on rule development. It is proposed the Consortium and individual Counties contact the Florida Congressional Delegation and lobbyists asking for the Rules to reflect the following:

- 1. As provided for in the RESTORE Act, allow plan development costs and preaward costs to be reimbursed, even before funds have been allocated.
- 2. Incorporate by Rule, that Pot #1 funds flow directly to the Counties.
- 3. Incorporate by Rule, the Gulf Consortium is the "... consortia of local political subdivisions" specified in the RESTORE Act.
- 4. Adopt by rule the percentages agreed to by the Eight Disproportionately Affected Counties.

<u>Analysis:</u> By presenting the same Rule requests, our position will be much stronger in the Rule development process currently underway in Washington, D.C.

Options:

- 1) Make a Motion adopting the above specific Rule requests as the official position of the Gulf Consortium.
- 2) Add to the above list and make a Motion adopting the amended list as the official position of the Gulf Consortium.
- 3) Provide other direction.

Fiscal I	mpact: None.			
Recom	mendation: Ei	ther Option 1 or 2.		
Staff Pe	erson's Name:	Doug Darling, Interim Man	nager	
Moved _		; Seconded		
Action:	Approved	Approved as amended	; Defeated	

Gulf Consortium May 17, 2013

Agenda Item # 17a Proposal to Establish a Committee of Fifteen

Non-disproportionately Affected

Executive Summary: Much like the Gulf Consortium's decision to establish a Committee of 8 Disproportionately Affect Counties to deal with a lack of formula for Pot #1 in the RESTORE Act, there is also the opportunity to have input into how the US Treasury implements the calculations for the 15.

Background: The RESTORE Act directs 35 percent of the available civil penalties under the Clean Water Act are to be distributed to the Gulf Coast States in equal shares. The RESTORE Act divides the Florida share into two pieces. One is for the 15 non-disproportionately affected counties which are to receive 25 percent of Florida's share. The RESTORE Act includes a formula for dividing the 25 percent among the 15 counties based on distance to the BP event, population and sales tax collections. However, there is ambiguity in how the formulas are developed and what authoritative sources are to be used.

<u>Analysis:</u> Charlotte County has taken the initiative to consult with the US Treasury and there is the opportunity for the 15 non-disproportionately affected counties to submit a consensus formula methodology. After getting clarification from Treasury, the following guidance is provided:

- 1) Treasury is not looking simply for percentages; they are looking for input on how to calculate the three elements of the formula.
- 2) What is the inverse proportion of the weighted average distance from the Deepwater Horizon oil rig to each of the nearest and farthest points of the shoreline? What authoritative source can provide this information?
- 3) What year and source should be used for determining the average population of the county?
- 4) What does "weighted average" mean in this context

These are a few of the questions that Treasury is asking for input on. This is a unique opportunity for the 15 Non-disproportionately Affected Counties to have similar involvement as the 8.

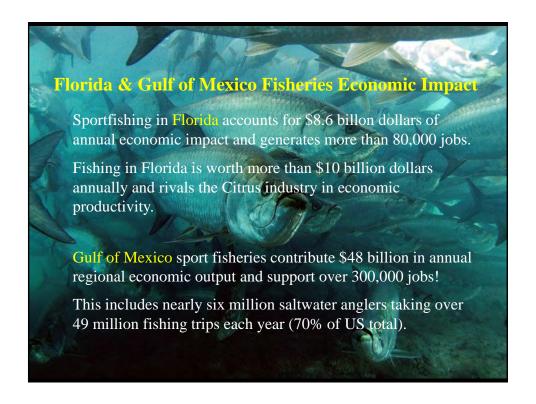
Options:

- 1) Approve a motion to establish a Committee of 15 Non-disproportionally Affected Counties to provide Treasury options on formula methodology.
- 2) Provide other direction.

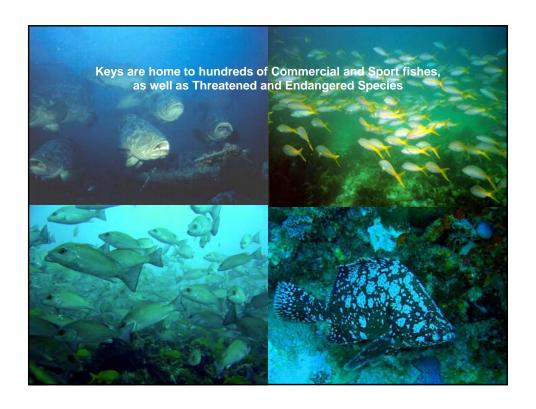
Fiscal Impact: Minor administrative expenses.

	mendation: Approve a motion to establish a Committee of 15 Non- ortionally Affected Counties to provide Treasury options on formula blogy.			
Prepared by: Doug Darling, Interim Manager				
Moved _	; Seconded			
Action:	Approved; Approved as amended; Defeated			





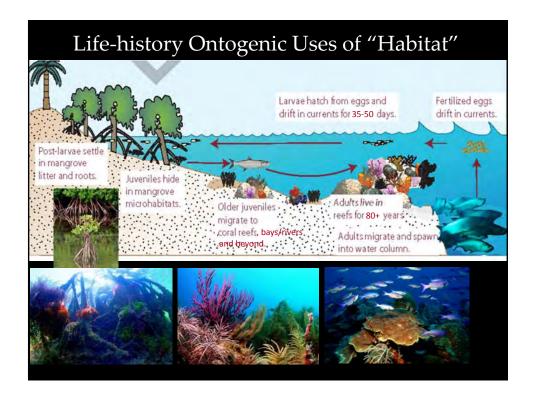
Regional Ecosystem Connections Florida Keys are a world-class tourist destination that provide critical environmental, ecological and economic benefits and connectivity to the 22 counties in the Consortium.

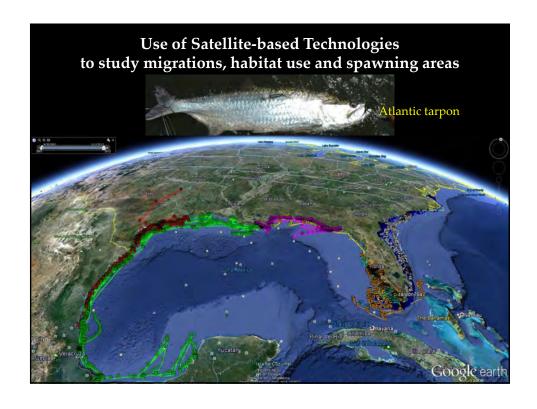


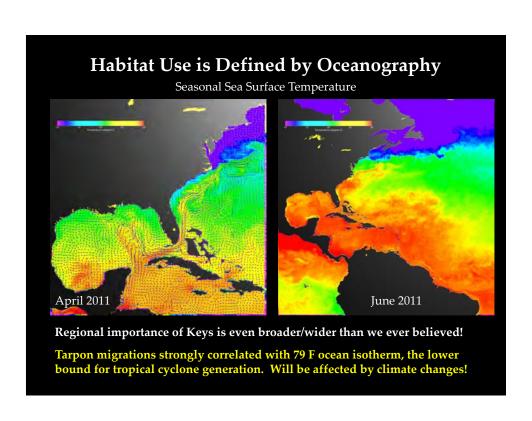


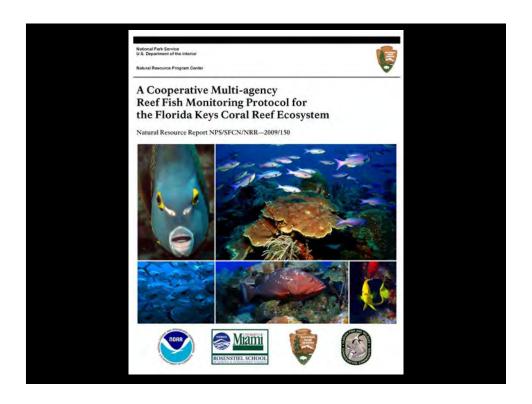


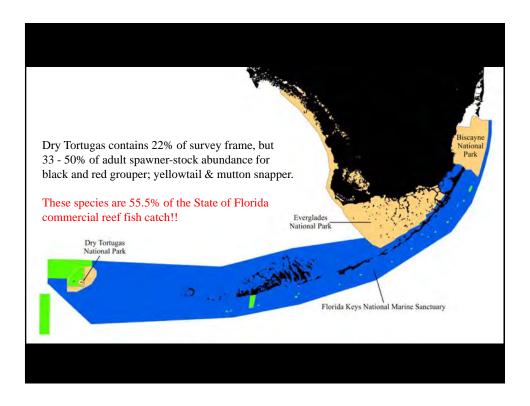


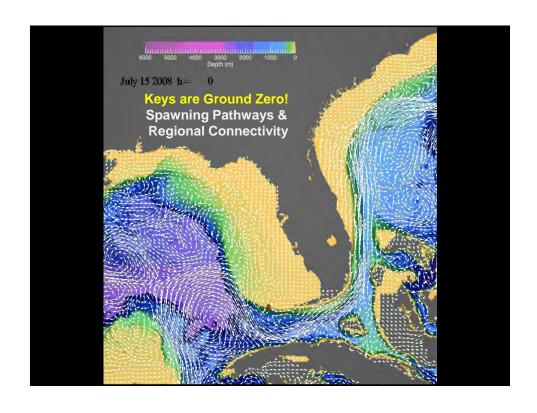








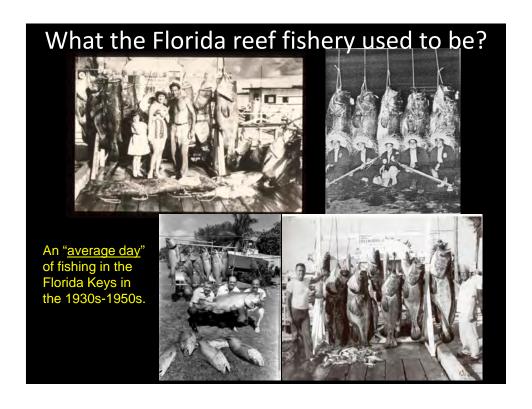




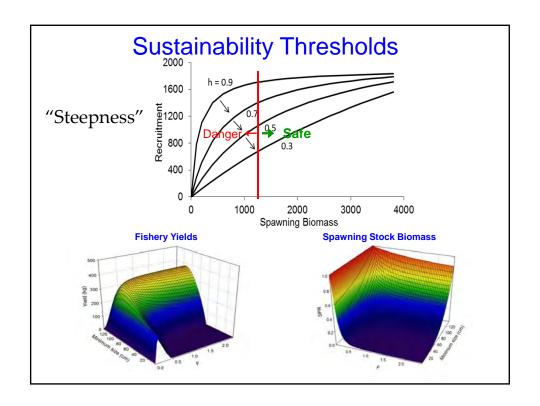


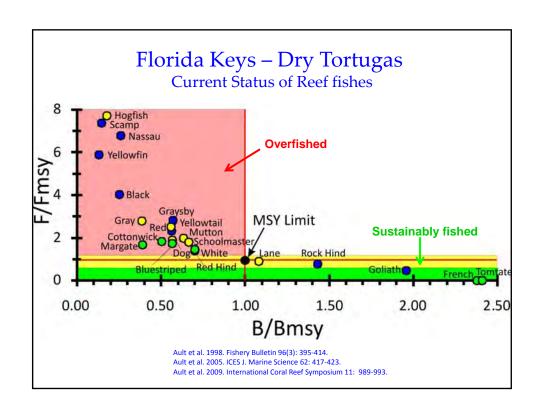






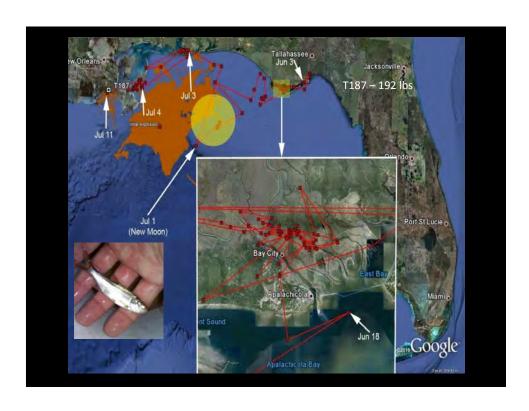




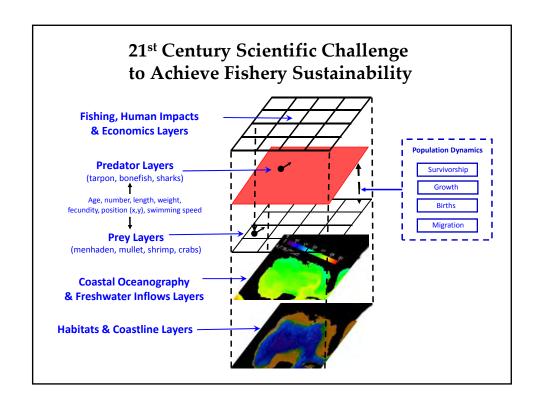
















Established by the Florida Legislature 1994

Our Mission...

Work closely with the Florida Fish and Wildlife Conservation Commission to ensure the preservation and protection of Florida's fish and wild life resources so they can survive and thrive for current and future generations of Florida residents and visitors.

- Finance programs to preserve and restore the unique, diverse plants, animals, and natural communities of Florida.
- Build effective partnerships with communities, businesses, organizations, and people throughout the State.
- Create opportunities for residents and visitors to use, enjoy, and learn about the State's fish and wildlife resources.



Established by the Florida Legislature 1994

You probably haven't heard of us

- Florida-only 501 (c) 3 not-for-profit
- Largest species mitigation banker in Florida
- \$2.2M annually in economic benefit to fish and wildlife conservation efforts
- Provide \$650K in license plate revenue for conservation grants
- We manage 120 funds for Federal, State, and County Agencies; other NGOs; and corporate and private donors
- Exponential growth, low overhead, State-wide reach



Established by the Florida Legislature 1994

Our last 5 years...

- Grown funds under management from \$1M to \$12M
- Provided \$2.3M for conservation grants
- Designed and coordinated a state-wide saltwater hatchery network (and just recently got one funded in Pensacola)
- Fund critical research for species such as bear, coral, conch, eagles, etc...
- Fight invasive species:
 - Launched the Python Challenge
 - Eliminated the Gambian Pouch Rat from the Keys



Established by the Florida Legislature 1994

The New Conservation Challenges

- The scale of the conservation issues we face has grown
- Solutions require unique partnerships and cooperation, we can be the vehicle
- Conservation funding is shrinking
- Identifying and prioritizing conservation investments that balance complex societal needs



Established by the Florida Legislature 1994

Helping Organizations Meet the New Conservation Challenges

- Flexible, secure, responsive banking solutions are the key to addressing new conservation problems
- Ability to deliver break-thru public-private
 Partnerships: Federal, State, NGO, and Corporate
- Highly sophisticated fund management capability
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The Florida Keys: America's Caribbean Outpost and Crossroads to the Gulf of Mexico

Gulf Consortium of Counties RESTORE Act Meeting

May 17, 2013 Key Largo, Florida

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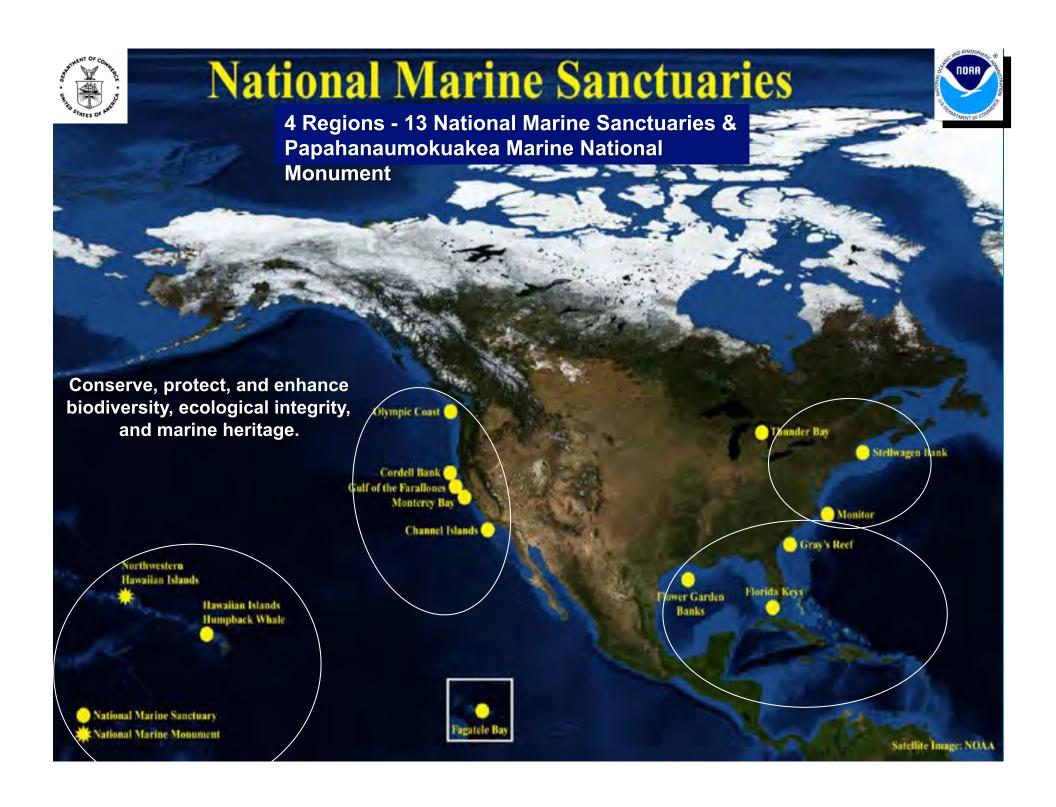
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Flower Garden Banks National Marine Sanctuary



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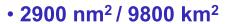


Tortugas





Florida Keys National Marine
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Jurisdiction to mean high tide

Surrounds Florida Keys

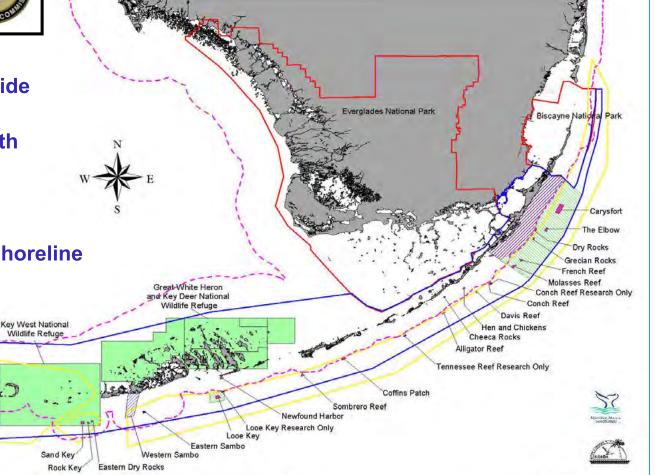
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Coral Reef Ecosystem







Includes the Full Seascape

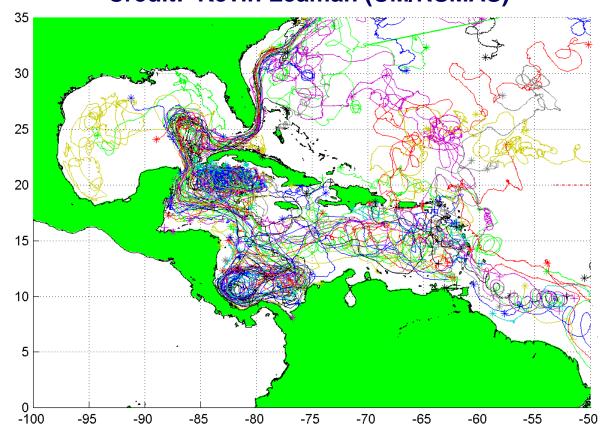


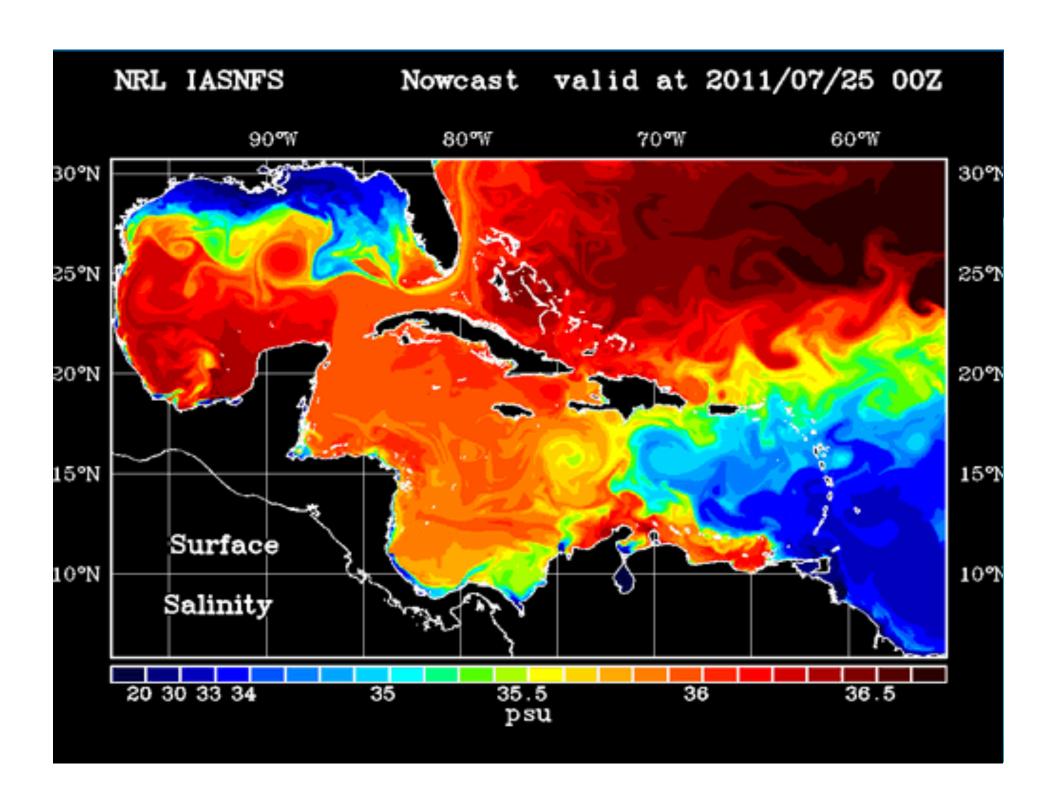
Caribbean Connectivity



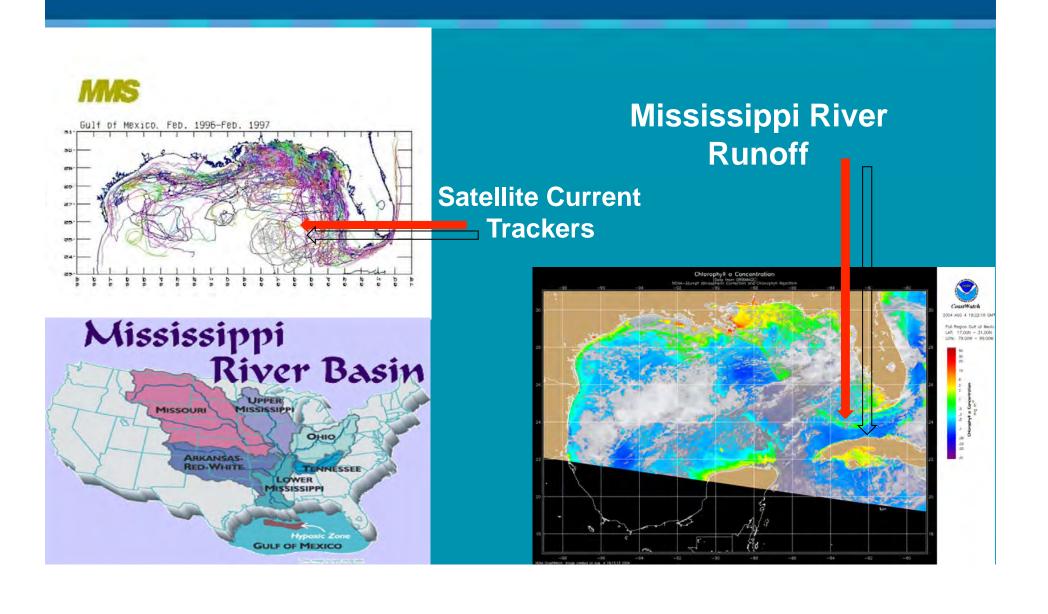
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Current Drifters (1998-2000)
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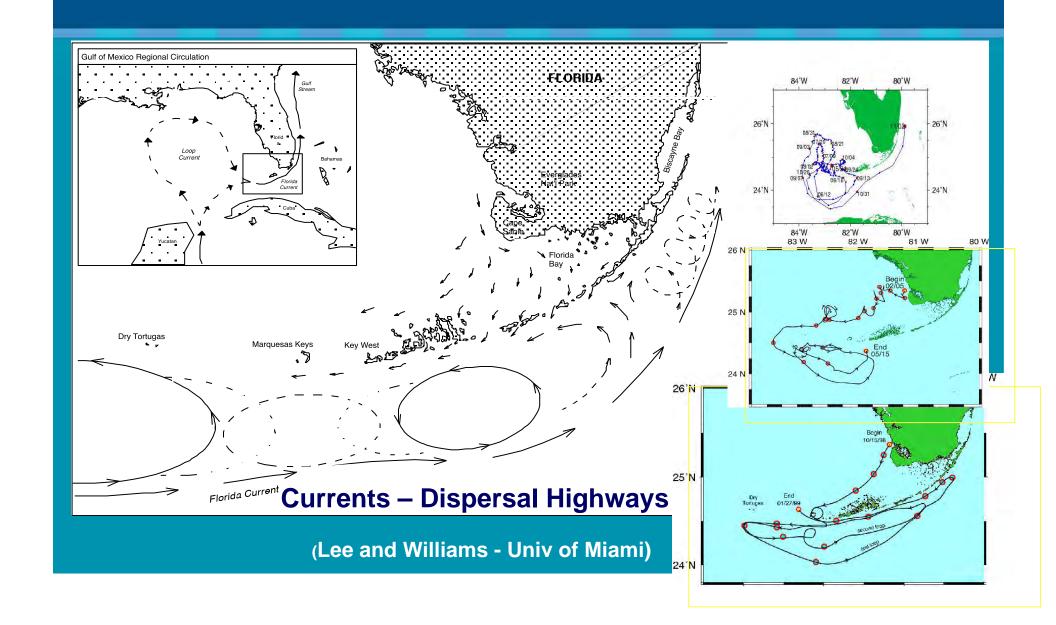




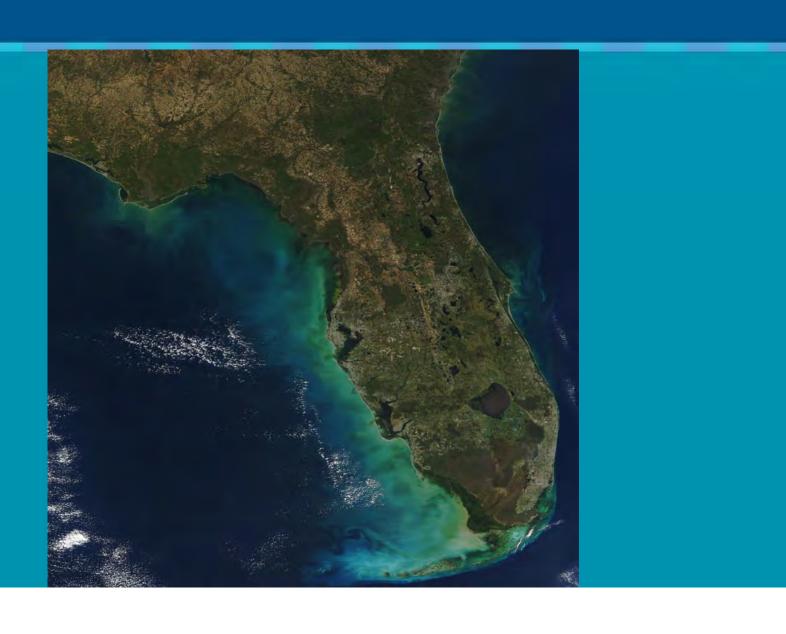
Connectivity within the Gulf of Mexico

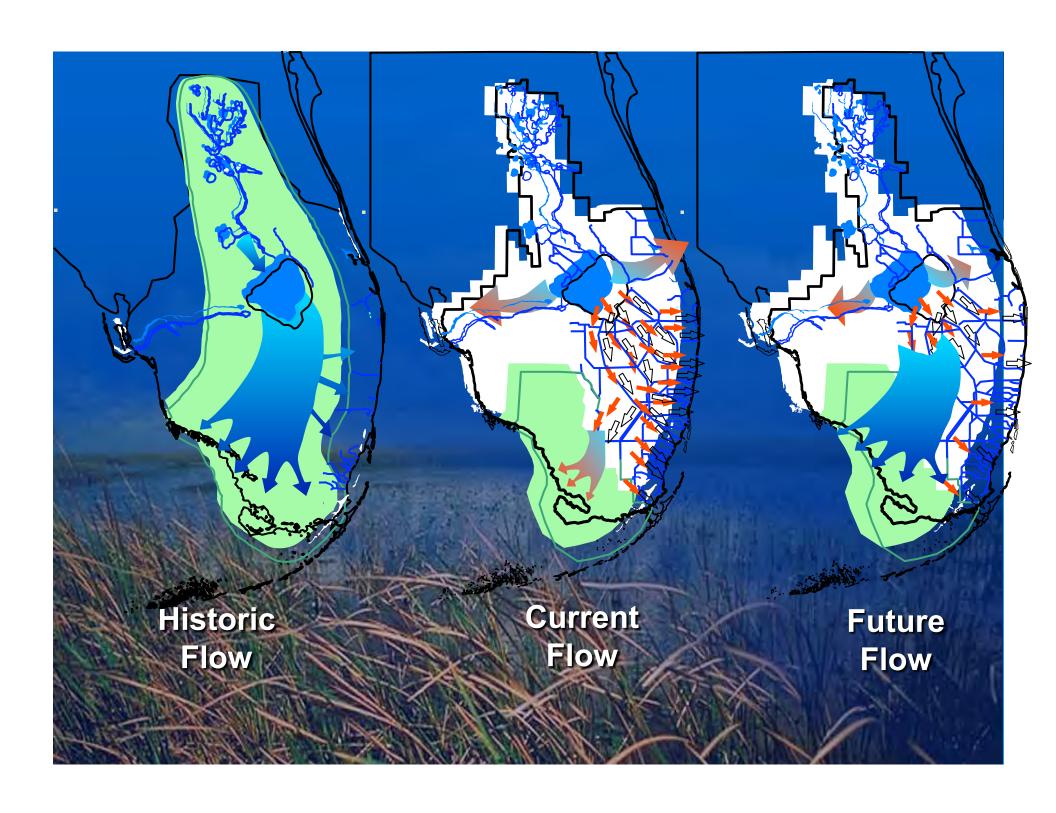


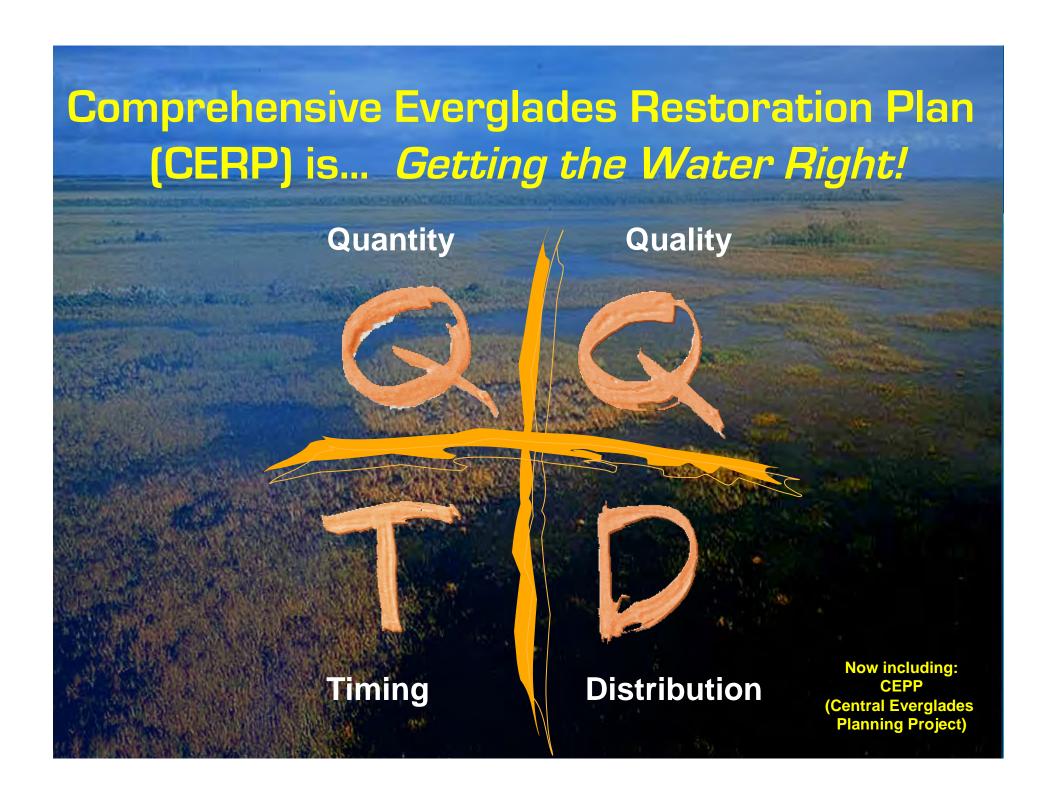
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South Florida Ecosystem







Threats to Coral Reefs

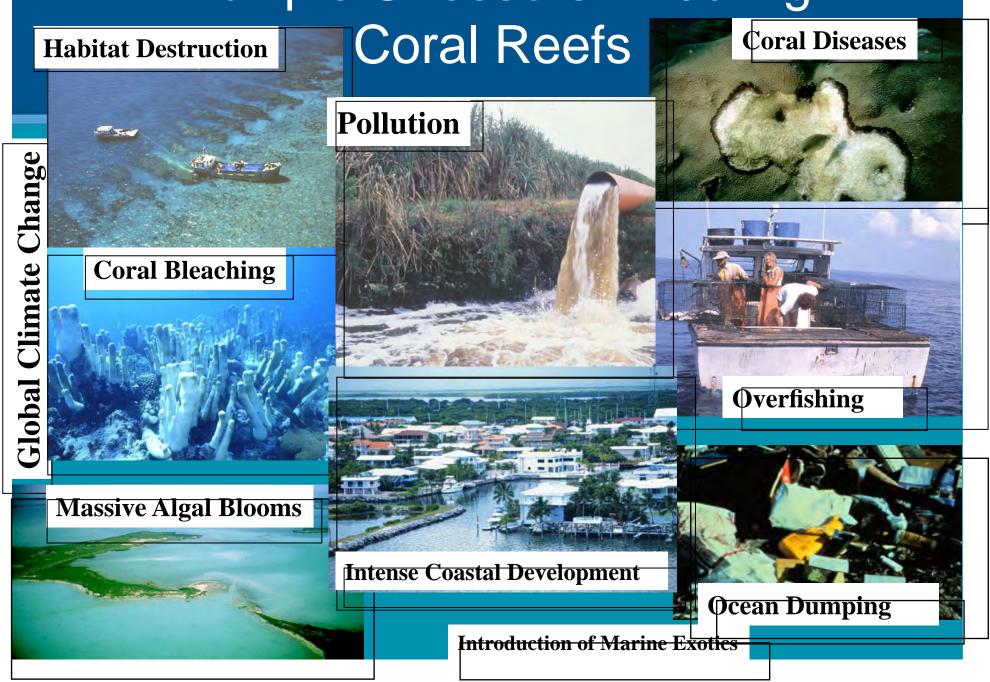
Climate Change

Land-based Sources of Pollution

Habitat Loss and Degradation

Overfishing





Land-based Sources of Pollution

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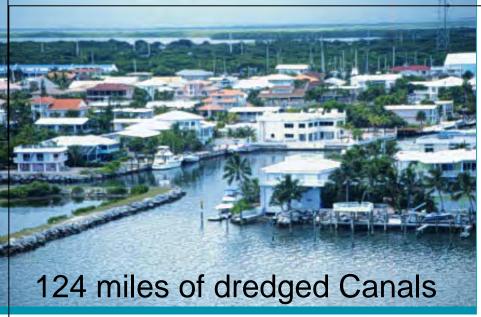
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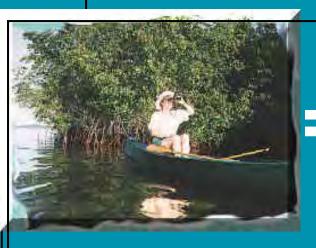
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The Environment and
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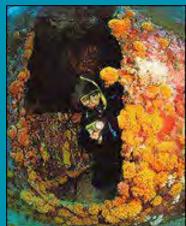




















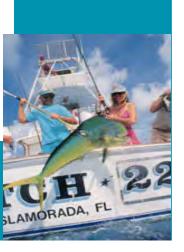






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Recreational Fishing

- Second most popular tourist activity
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• 620,000 people/yr viewing wildlife – 2.7m days nature viewing













Cruiseship Landings Have Increased Dramatically Over the Past Two Decades



> 525 Cruiseship Landings in 2005 In Key West

Fewer Landings in Recent Years



Marine outdoor activity generates \$2.36 billion in sales/output
 - 63% of Monroe County economy

Over \$1 Billion income to residents – 33,000 full or part time

jobs - 58% of all jobs in Florida Keys



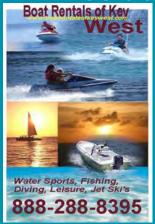




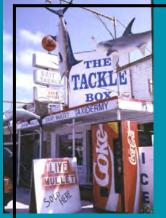
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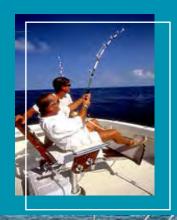
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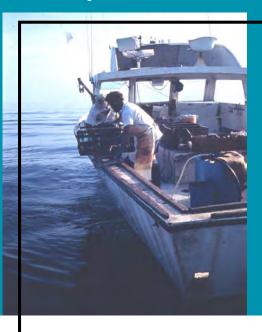
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Second Largest Industry

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http://sanctuaries.noaa.gov



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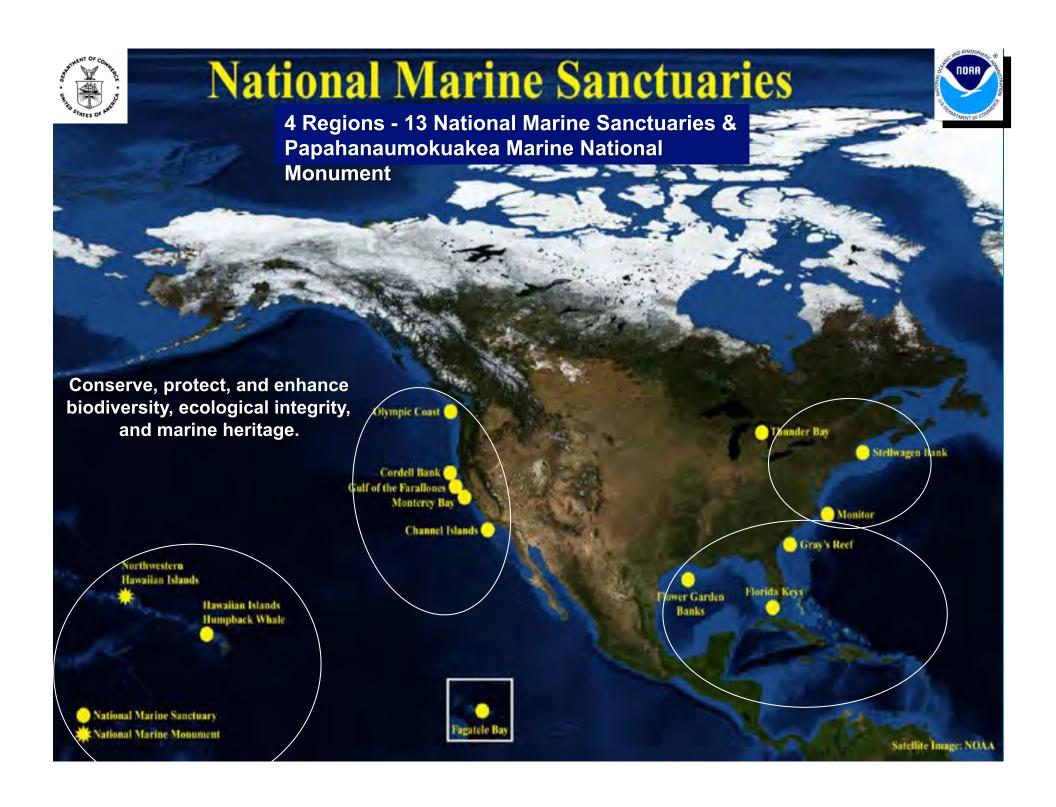
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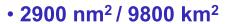


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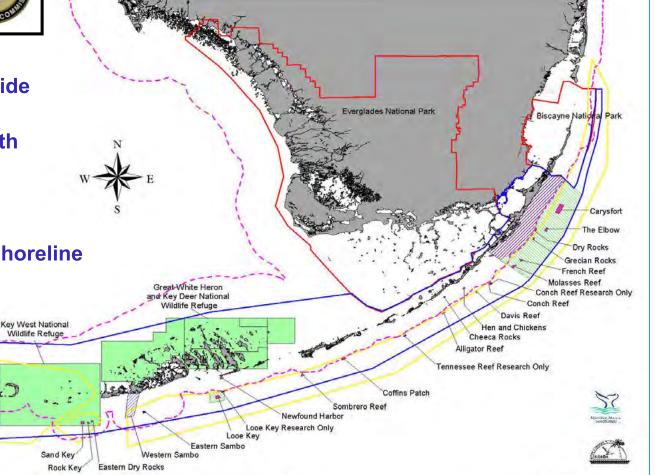
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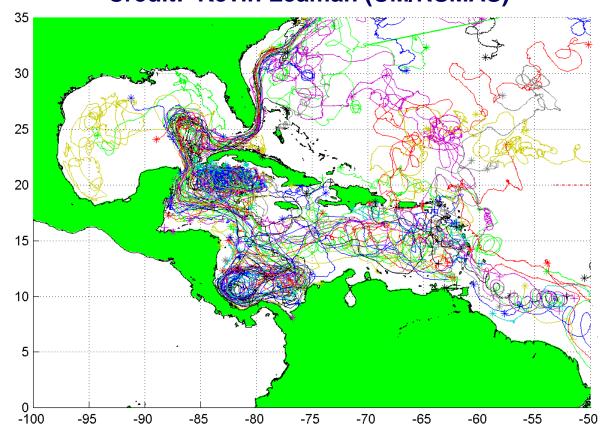


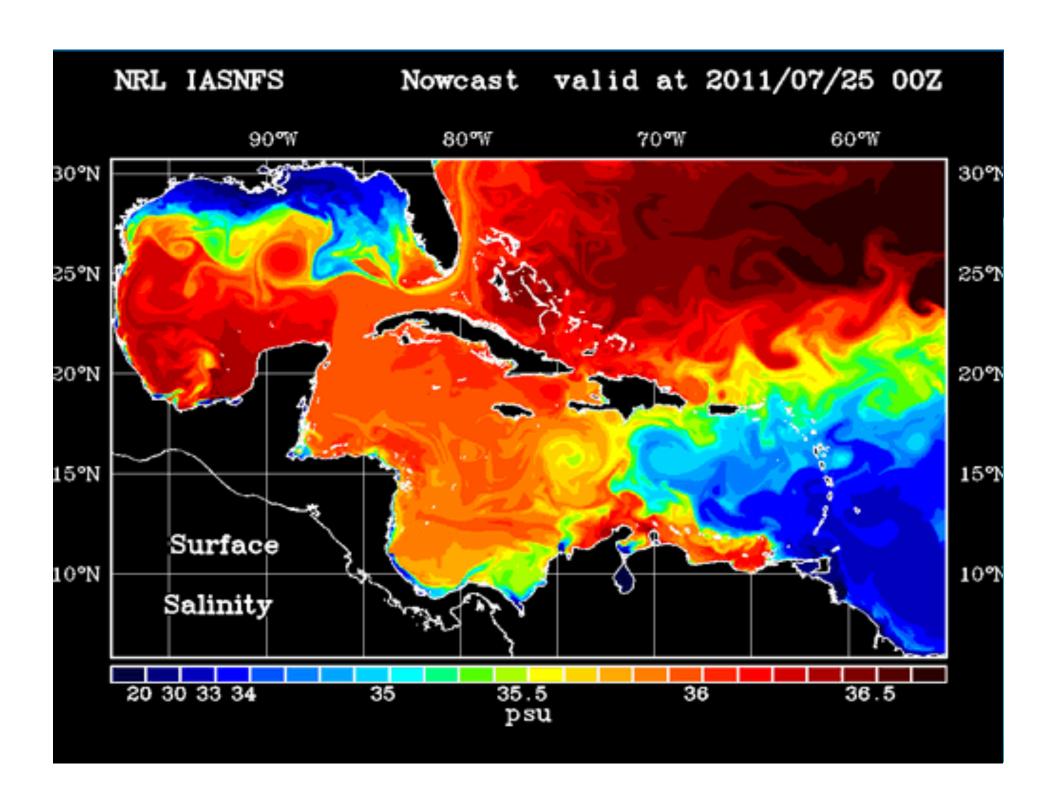
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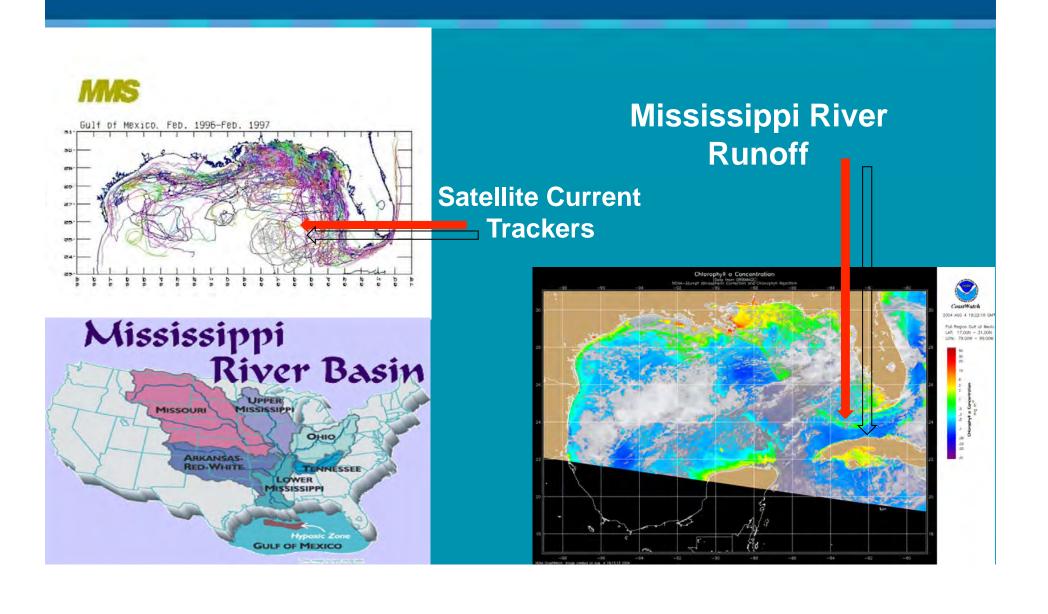
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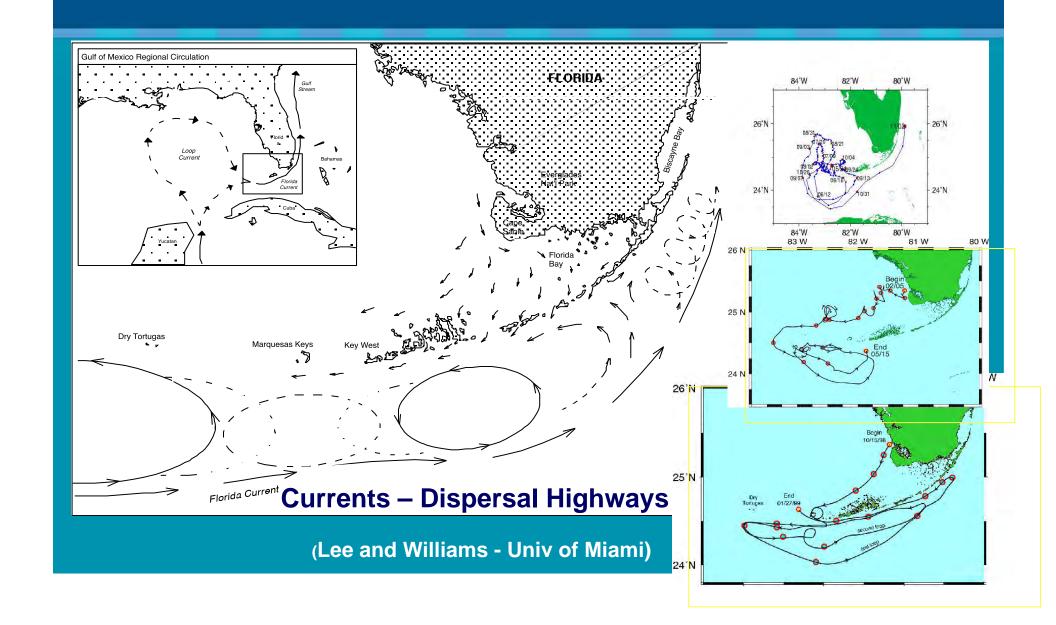




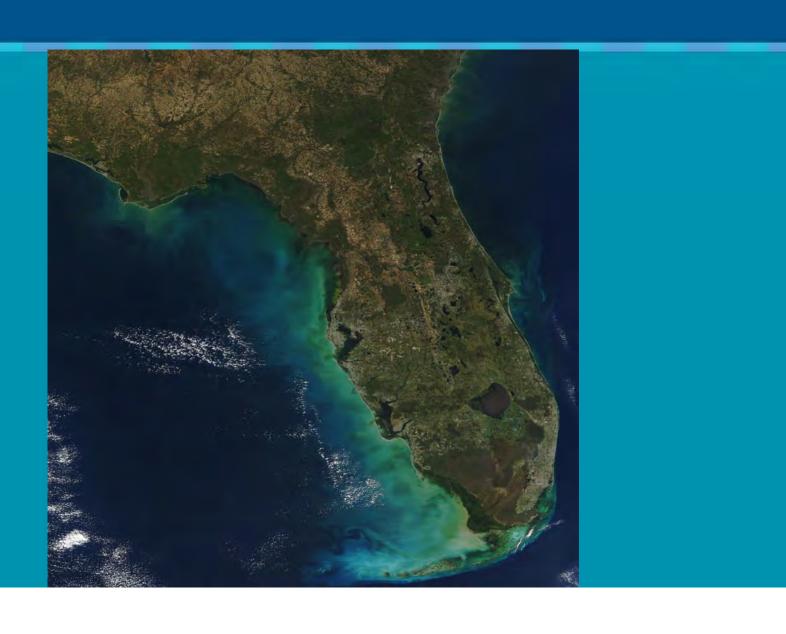
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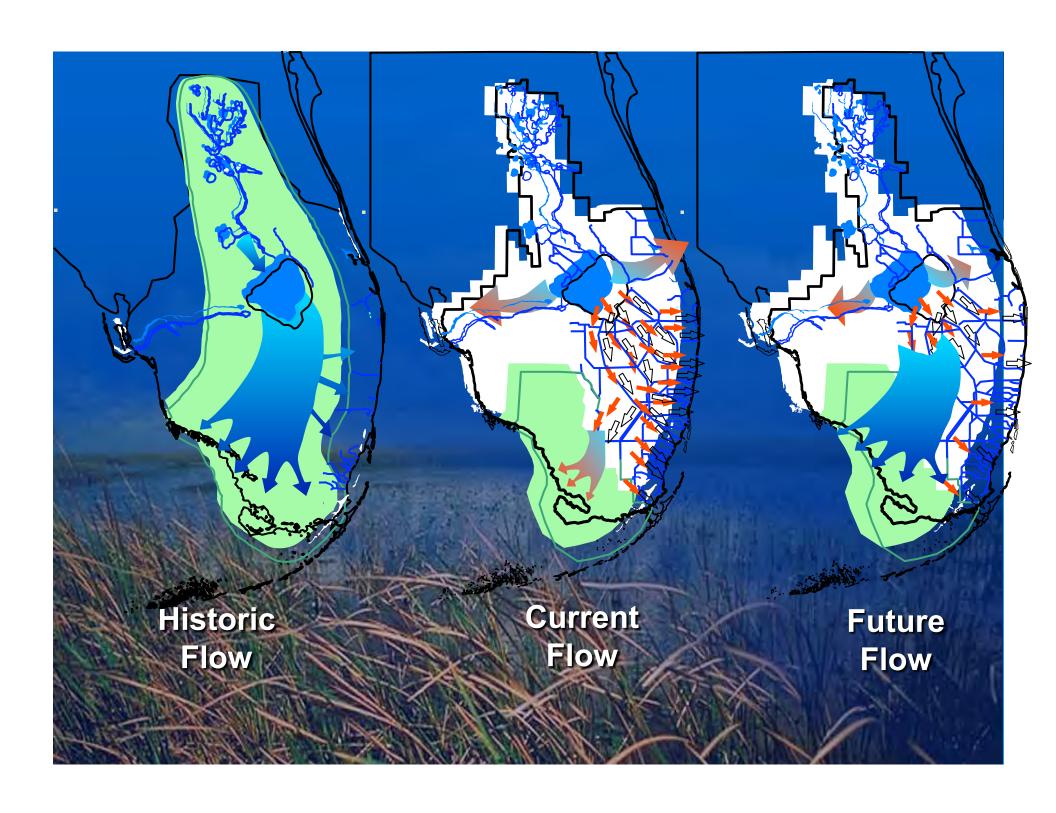


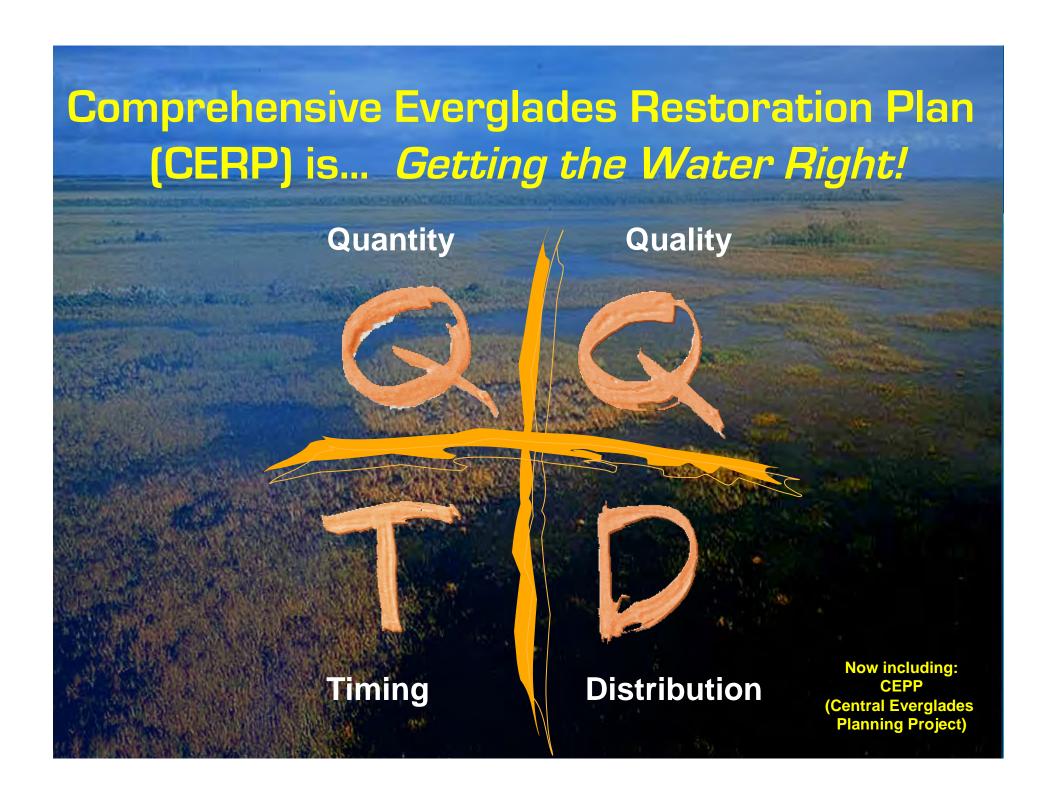
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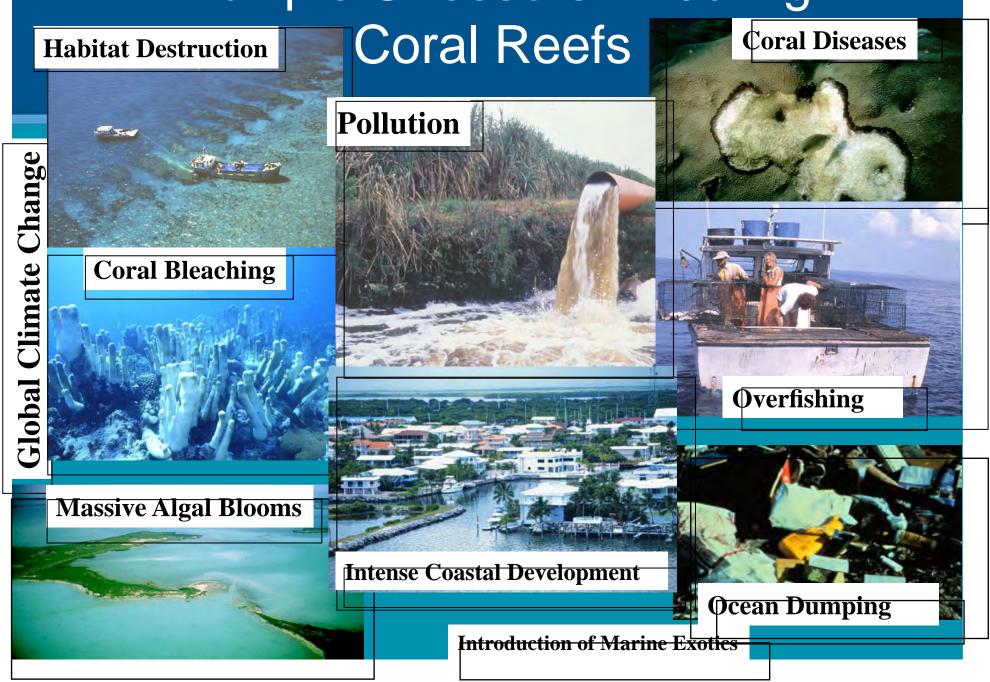
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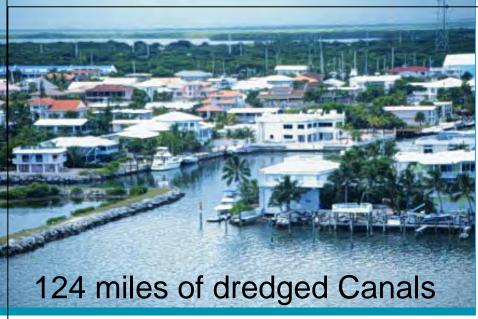
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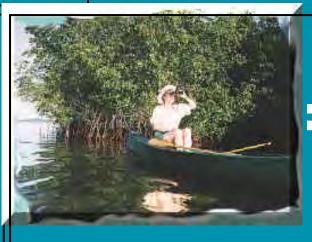
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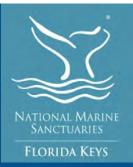
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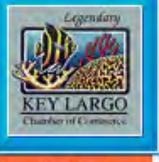






























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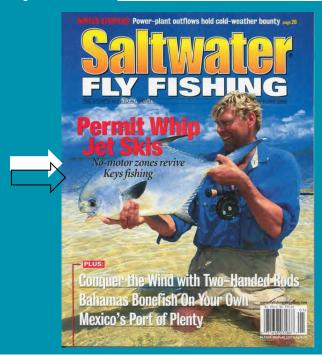
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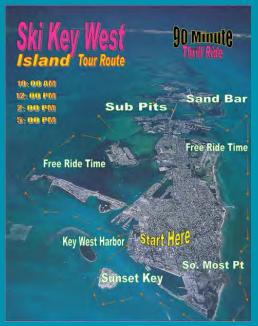


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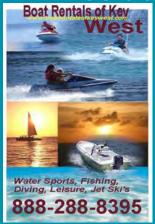




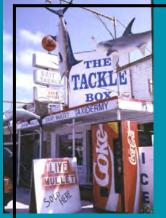
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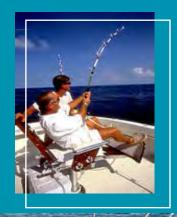
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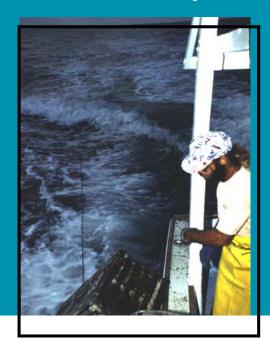
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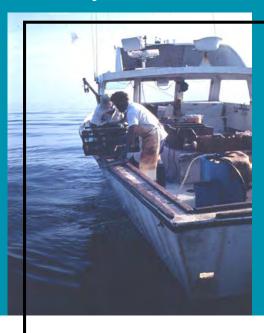
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Gulf Consortium Board Meeting Agenda Item Cover Sheet May 17, 2013

Consent Agenda Item # 3.a

<u>Statement of Issue or Executive Summary:</u> The Gulf Consortium is a public entity under Chapter 119, Florida Statutes (F.S.) and as such, meetings are required to have minutes.

<u>Background:</u> The attached minutes summarize actions taken at the last Gulf Consortium Meeting held April 5, 2013 9:00 a.m.-12:00 noon (EDT), Tallahassee City Commission Chambers, Tallahassee, FL.

Analysis: The attached accurately reflects Consortium actions.

Options:

- 1) Approve a motion to accept minutes as presented.
- 2) Amend minutes.

Fiscal Impact: None.

Recom	mendation:		
Approv	e a motion tha	t approves minutes.	
<u>Divisio</u>	n and Staff P	erson's Name: Doug Darling,	Florida Association of Counties
Moved		; Seconded	
Action:	Approved	· Approved as amended	· Defeated

Gulf Consortium Meeting April 5, 2013, 9:00 a.m.-12:00 p.m. EDT at Tallahassee City Commission Chambers, Tallahassee, FL Leon County

Directors / Alternates in Attendance

Commissioner Mike Thomas (Bay), Commissioner Christopher Constance (Charlotte), Commissioner Rebecca Bays (Citrus), Commissioner Tom Henning (Collier), Director Tim Alexander (Dixie), Commissioner Grover Robinson (Escambia), Commissioner Cheryl Sanders (Franklin), Commissioner Warren Yeager (Gulf), Commissioner Wayne Dukes (Hernando), Commissioner Betsy Barfield (Jefferson), Commissioner Tammy Hall (Lee), Coordinator Fred Moody (Levy), Director Charlie Hunsiker (Manatee), Commissioner George Neugent (Monroe), Commissioner Dave Parisot (Okaloosa), Commissioner Jack Mariano (Pasco), Commissioner Susan Latvala (Pinellas), Commissioner Lane Lynchard (Santa Rosa), Manager Laird Wreford (Sarasota), Commissioner Jim Moody (Taylor), Administrator David Edwards (Wakulla), Commissioner Sara Comander (Walton)

Agenda Item #3 – Approval of Minutes from February 28, 2013 Gulf Consortium Meeting
A motion to approve the minutes from the February 28, 2013 Gulf Consortium Board of Directors'
(Board) Meeting in Bay County was presented by Commissioner Sara Comander (Walton) and seconded by Commissioner Jim Moody (Taylor).

ACTION: PASSED

Agenda Item #4 – Updated List of Gulf Consortium Directors and Alternates

Mr. Doug Darling, FAC Consultant, distributed a list of Gulf Consortium Directors and Alternates. Change made to Dixie County Alternate, County Manager Mike Cassidy.

Agenda Item #5 – Financial Report

Mr. Doug Darling, FAC Consultant, reported the financial information requested by the Board. Board members reviewed financials with Commissioner Tammy Hall (Lee) moving to accept the financial information as presented with Commissioner George Neugent (Monroe) seconding.

ACTION: PASSED

Agenda Item #6 – Memorandum of Understanding (MOU) with Executive Office of the Governor Mr. Doug Darling, FAC Consultant, briefed the Board on the most recent draft MOU between the Consortium and the Executive Office of the Governor with Commissioner Christopher Constance (Charlotte) moving to authorize Chair Robinson to sign the MOU on behalf of the Board. The motion was seconded by Commissioner Tom Henning (Collier).

ACTION: PASSED

Agenda Item #7 – Presentation by The Honorable Bob Inzer, Clerk of Court, Leon County on Financial Controls for RESTORE Funding – Postponed until later in agenda.

Agenda Item #8 - Cities Participation Proposal

Ms. Sarah Bleakley briefed the Board on city participation in the Gulf Consortium and discussion ensued. A motion to ask the Florida League of Cities to appoint a city representative to serve as a non-voting member of the Gulf Consortium was presented by Commissioner Jim Moody (Taylor) and seconded by Commissioner Mike Thomas (Bay). Discussion continued and Commissioner Jim Moody withdrew his motion with Commissioner Mike Thomas agreeing to the withdrawal.

ACTION: MOTION WITHDRAWN, NO VOTE TAKEN

Agenda Item #9 – Update by Ms. Mimi Drew, Florida's Representative to the Gulf Coast Ecosystem Restoration Council – Postponed until later in agenda.

Agenda Item #10 – Presentation by Mr. Kevin Claridge, Director, Coastal & Aquatic Managed Areas, Florida Department of Environmental Protection – Postponed until later in agenda.

Agenda Item #11 – Update by Selected Counties on Local Planning

Commissioner Rebecca Bays (Citrus) provided the Board with an update of Citrus County's local plans including identifying goals and objectives and developing a methodology for project selection. Commissioner Warren Yeager (Gulf) informed the Board Gulf County had established a committee to develop pre-application criteria for local projects including representatives from the Gulf County Tourist Development Council, Gulf County Chamber of Commerce, Port St. Joe, Wewahitchka and members of the public. David Edwards (Wakulla) informed the Board Wakulla County had established a committee and are planning public meetings to focus on regional plans as well as education. Mr. Doug Darling, FAC Consultant, informed the Board this agenda item would be carried forward at future meetings in the interest of sharing best practices.

Agenda Item #12 – Presentation by Nick Wiley, Executive Director, Florida Fish and Wildlife Conservation Commission

Mr. Nick Wiley, Executive Director, Florida Fish and Wildlife Conservation Commissioner provided the Board with an update on Federal funding from the National Fish and Wildlife Service and encouraged the Board to read the settlement agreement. The settlement can be found here:

http://www.justice.gov/iso/opa/resources/915201313122945254063.pdf

Agenda Item #7 – Presentation by The Honorable Bob Inzer, Clerk of Courts, Leon County on Financial Controls for RESTORE Funding

The Honorable Bob Inzer, Leon County Clerk of Courts, briefed the Board on the activities of the New Clerk Council which has 21 members. Education and training is ongoing in preparation for the US Treasury Department rules and regulations relating to the distribution of RESTORE Act funds.

Agenda Item #9 – Update by Mimi Drew, Florida's Representative to the Gulf Coast Ecosystem Restoration Council

Ms. Drew briefed the Board on Council actions. Discussion ensued with Board members asking questions which Ms. Drew answered to the best of her ability based on current information.

Agenda Item #10 – Presentation by Mr. Kevin Claridge, Director, Coastal & Aquatic Managed Areas (CAMA), Florida Department of Environmental Protection (FDEP)

Mr. Kevin Claridge, Director of FDEP CAMA, briefed the Board on FDEP's early efforts to solicit and prioritize projects. He informed the Board that there would be coordination among various State Agencies as well as among departments within the Agencies and counties.

Agenda Item #13 – Federal Rules Update

Mr. Doug Darling, FAC Consultant, reported that draft Treasury Rules have still not been released. Commissioner Dave Parisot (Okaloosa) asked Mr. Darling to find out if the Rules would address reimbursement for expenditures during the planning phase.

Agenda Item #14 - Next Meeting

The next meeting is planned for Friday, May 17, 2013 in Key Largo from 10-12:00 noon, EST.

Agenda Item #15 – New Business

Mr. Doug Darling, FAC Consultant, then opened the floor for new business. Charlie Hunsicker (Manatee) asked that those counties who have ports try to collaborate on their plans.

Commissioner Dave Parisot (Okaloosa) asked for an update on the trial. Ms. Mimi Drew informed the Board that the Federal part of the trial was complete and the Department of Justice issued their ruling. The current subcontractor phase of the trial will be followed by BP which could be in May.

Commissioner Sara Comander (Walton) asked Ms. Drew when previously submitted NRDA projects could expect funding. She informed the Board that she was hopeful it would be in the next few months.

Agenda Item # 16 – Public Comment

The Board heard public testimony:
Janet Bowman representing The Nature Conservancy
TJ Marshall representing Ocean Conservancy
Julie Wraithmell representing Audubon Florida
Jessica Koelsch representing National Wildlife Federation
JB Hillard representing Walton County Tax Payers Association
Jim McFarlane representing Reef Ball Foundation / Reef Innovation
Darryl Boudreau representing The Nature Conservancy

Agenda Item # 17 – Motion to Adjourn

There being no additional items for discussion, Chair Robinson (Escambia) adjourned.

Gulf Consortium Directors Alternates May 17, 2013

County	Director and Alternate
Bay	Comm Mike Thomas Director; Comm George Gainer, Alternate
Charlotte	Comm Christopher Constance, Director; Comm Tricia Duffy, Alternate
Citrus	Comm Rebecca Bays, Director; Richard Wesch, County Attorney, Alternate
Collier	Comm Tom Henning, Director; Comm Donna Fiala, Alternate
Dixie	Tim Alexander, Director of Emergency Management; Administrator Mike Cassidy, Alternate
Escambia	Comm Grover Robinson, Director; Comm Gene Valentino, Alternate
Franklin	Comm Cheryl Sanders, Director; County Administrator Alan Pierce
Gulf	Comm Warren Yeager, Director; Tan Smiley, Alternate
Hernando	Comm Wayne Dukes, Director; Comm David Russell, Alternate
Hillsborough	Comm Les Miller, Director; Comm Ken Hagan, Alternate
Jefferson	Comm Betsy Barfield, Director; County Coordinator Parrish Barwick, Alternate
Lee	Comm Tammy Hall , Director; Comm John Manning, Alternate
Levy	Comm Ryan Bell, Director; County Coordinator Fred Moody, Alternate
Manatee	Comm Carol Whitmore, Director; Charlie Hunsicker, Natural Resources Dept., Alternate
Monroe	Comm George Neugent, Director; Mayor David Rice, Alternate
Okaloosa	Comm Dave Parisot, Director; Comm Kelly Windes, Alternate
Pasco	Comm Jack Mariano, Director; Comm Henry Wilson, Alternate
Pinellas	Comm Susan Latvala, Director
Santa Rosa	Comm Lane Lynchard, Director; Comm Jim Melvin, Alternate
Sarasota	Comm Nora Patterson, Director; Laird Wreford, Natural Resources Manager, Alternate
Taylor	Comm Jim Moody, Director; Jack Brown, County Administrator, Alternate
Wakulla	David Edwards, County Administrator, Director; Comm Ralph Thomas, Alternate
Walton	Comm Sara Comander, Director; Comm Cindy Meadows, Alternate

Gulf Consortium Board Meeting Agenda Item Cover Sheet May 17, 2013 Consent Agenda Item # 3.c

<u>Statement of Issue or Executive Summary:</u> At previous Gulf Consortium meetings, a request was made, and approved by Directors, that financial status reports are provided at each Gulf Consortium meeting.

<u>Background:</u> Gulf Consortium member counties have contributed to the operation of the Consortium during this transition phase of establishment.

Analysis: The sheets below provide a recap of revenue and expenses to date compared to budget.

Options:

- 1) Approve a motion to accept the financial reports as presented.
- 2) Provide other direction.

Fiscal Impact: None.

Recommendation: Approve a motion that approves financial reports.

Gulf Consortium Transition Budget to Actual October 1, 2012 - April 30, 2013

	Revised Interim Budget*	Year To Date Actual
Revenues		-
Interim County Funding	133,866.00	100,423.00
Total Revenues	133,866.00	100,423.00
Disbursements		
Consulting-Administration	60,000.00	25,000.00
Consulting-Legal & Expenses	65,000.00	25,578.79
Meeting and Travel Expense	8,000.00	3,841.41
Miscellaneous	866.00	471.52
Total Disbursements	133,866.00	54,891.72
Revenues Over (under) Disbursements		45,531.28

Statements Prepared on Cash Basis

*Revised Interim Budget includes 3/27/13 invoicing of \$70,026

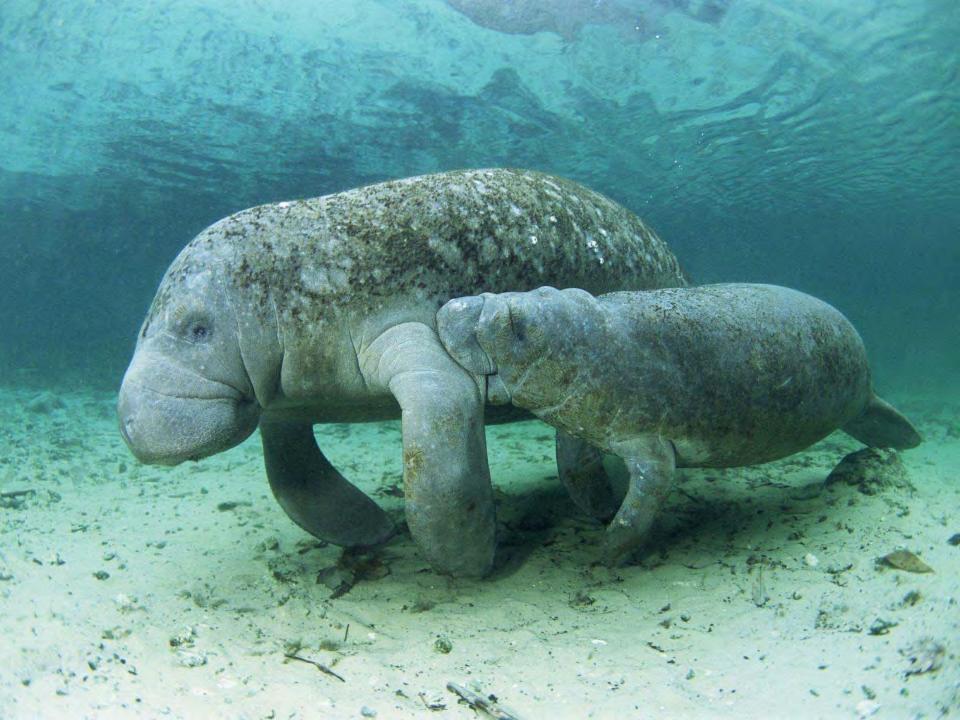
Gulf Consortium Expense Register Detail October 1, 2012 to April 30, 2013

Check #	Payee	Date	Total Amount	Consult- Admin	Consult- Legal	Meeting & Travel	Misc	Description
Debit	Suntrust	1/17/2013	105.51				105.51	Printing Costs - Checks
1001	FAC (Darling-Oct, Nov, Dec, Jan)	2/27/2013	20,955.18	20,000.00		955.18		Admin Consulting Expenses and travel (Oct - Jan)
1002	FAC (Reimb Direct Expenses)	2/27/2013	1,820.68			1,633.18	187.50	Meeting Expenses and Logo Creation
1003	FL Department of State	2/27/2013	32.68			32.68		Meeting notice 1/18/2013
1004	FL Department of State	2/27/2013	47.88			47.88		Meeting Notice 2/15/2013
1005	Nabors Giblin VOID	2/27/2013	5,015.62		5,015.62			Oct 22-31 consulting (2550) plus expenses (2465.62 VOIDED CHECK
1007	Nabors Giblin	2/27/2013	5,086.14		5.086.14			Nov 2012 consulting (5000) plus expenses (86.14)
1008	FL Dept of State	3/14/2013	31.73		0,000.11	31.73		Meeting Notice 2/28/2013
1009	Nabors Giblin & Nickerson	3/14/2013	5,273.00		5,273.00			Feb 2013 Consulting (5000) plus expenses (273.00)
1010	Nabors Giblin & Nickerson	3/14/2013	5,145.50		5,145.50			Jan 2013 Consulting (5000) plus expenses (145.50)
1011	Nabors Giblin & Nickerson	3/14/2013	5.058.53		5,058.53			Dec 2012 Consulting (5000) plus expenses (58.53)
1012	City of Tallahassee	3/14/2013	111.35		-10-3-4-	111.35		Room Rental -Chambers 4/5/13
1013	EBLRTF	3/19/2013	75.00				75.00	Exec Branch Lobbyist Reg- Reepen, Delegal, Holley
1014	Florida Legislature	3/19/2013	60.00					Legisalture Lobbyist Reg - Reepen, Delegal, Holley
1015	FAC	3/28/2013	6,029,41	5,000.00		1,029,41		Feb 2013 Admin (5000) plus expenses (1029.41)
1016	FL Department of State	4/24/2013	43.51	113/840			43.51	
	Total Expenses	_	\$ 54,891.72	\$ 25,000.00	\$ 25,578.79	\$ 3,841.41	\$ 471.52	

THE ENVIRONMENTAL CHALLENGE OF

"HEALTHY MARINE FISHERIES & ECOSYSTEMS"

TJ Marshall
Ocean Conservancy



What's at Risk with Marine Fisheries?

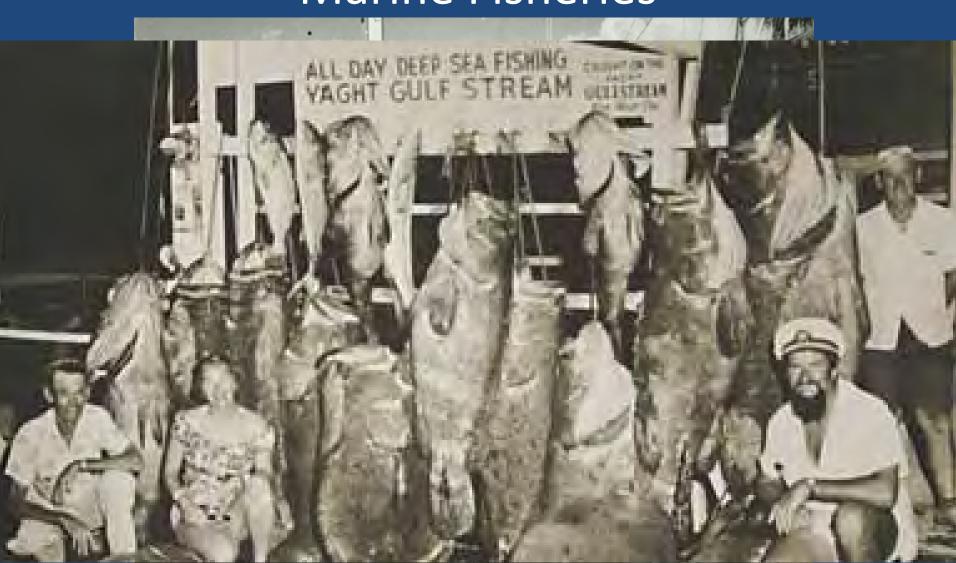
- Fisheries worth \$22.6 Billion annually
 - 63 Species managed by Gulf of Mexico Fishery Council
- Regional Tourism worth \$34 billion annually
 - Local economies that depend on a healthy Gulf.

Challenges to blue water fisheries and ecosystems

- Financial resources are limited .
- Implement fishing limits according to "best available science".
- Reductions in catches if "unknowns" aren't addressed timely.
- Understanding impacts of marine mammal deaths



Looking back at our Marine Fisheries



Overfished Stocks (48) - as of March 31, 2011

North Pacific:

- Blue king crab Pribilof Islands
- Southern Tanner crab Bering Sea

New England:

- Atlantic cod Georges Bank
- Atlantic halibut
- Atlantic salmon1
- Atlantic wolffish
- Ocean pout
- Smooth skate
- Thorny skate
- White hake
- Yellowtail flounder Georges Bank
- 10. Yellowtail flounder Southern New England/Mid-Atlantic
- 11. Yellowtail flounder Cape Cod/Gulf of Maine
- 12. Windowpane Gulf of Maine/Georges Bank
- 13. Winter flounder Southern New England/Mid-Atlantic
- 14. Winter flounder Georges Bank

15. Witch flounder

Highly Migratory Species:

- Albacore North Atlantic²
- Blacknose shark
- Blue marlin Atlantic²
- Bluefin tuna West Atlantic2
- Dusky shark
- Porbeagle shark
- Sandbar shark
- White marlin Atlantic²

Mid-Atlantic:

1. Butterfish (Atlantic)

South Atlantic:

- Black Sea Bass
- Pink Shrimp
- Red Grouper
- Red Porgy Red Snapper
- Snowy Grouper

Pacific:

2. Cowcod

Petrale sole

(fall)1

Fuca¹

Canary rockfish

Coast: Queets1

7. Yelloweve rockfish

Chinook salmon - California

5. Coho salmon - Washington

6. Coho salmon - Washington

Central Valley: Sacramento

Coast: Western Strait of Juan de

Seamount Groundfish Complex - Hancock Seamount

- Gray triggerfish
- Greater amberjack
- Red snapper



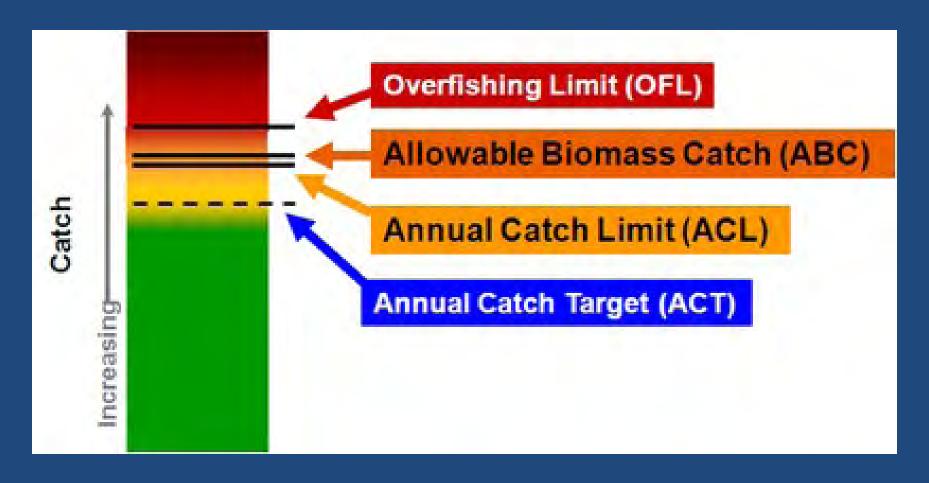
Caribbean:

- Grouper Unit 1
- Grouper Unit 2
- Grouper Unit 4
- Queen conch

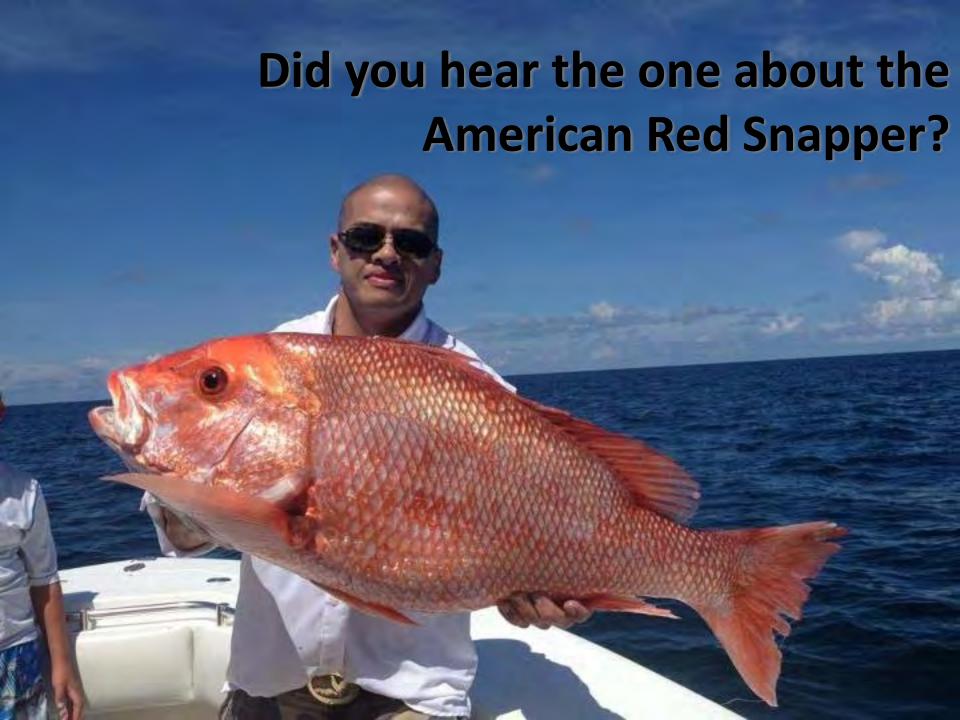


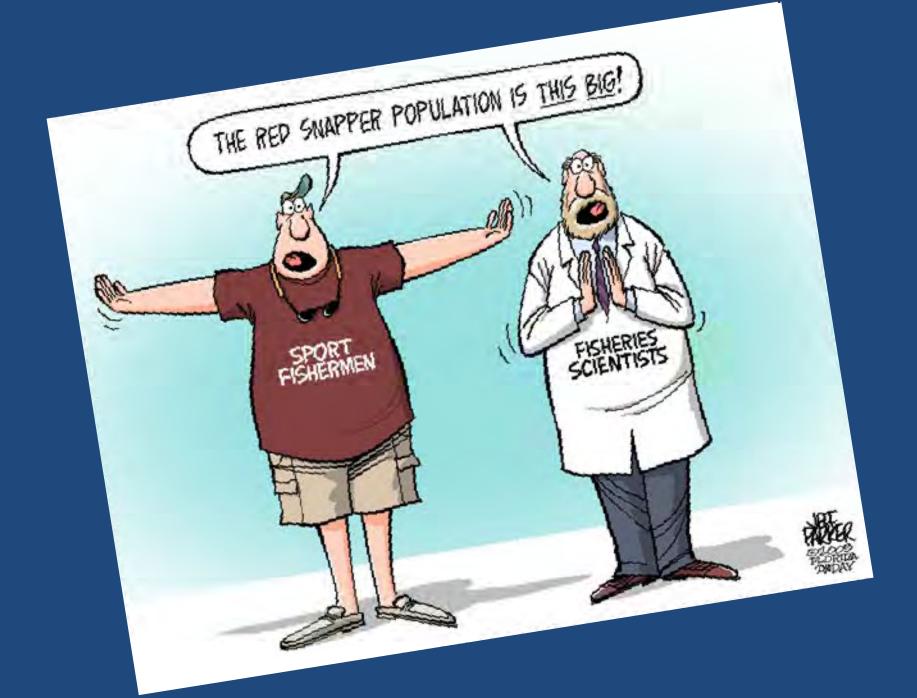
- Non-FSSI stock
- Stock is fished by U.S. and International fleets

What is a Sustainable Fishery



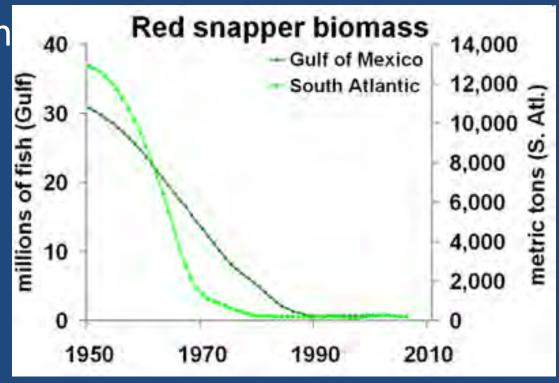
Counting on a high catch of fish every year in perpetuity





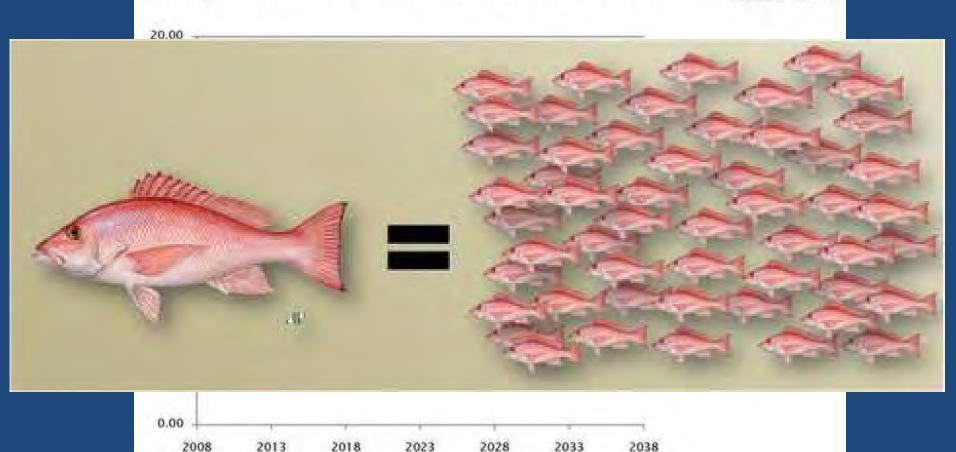
Red Snapper

- Experience has shown that past perspectives on bag limits and length of fishing seasons inevitably leads to:
 - stock depletion
 - profit loss
 - populations crashing
 - fisheries collapsing



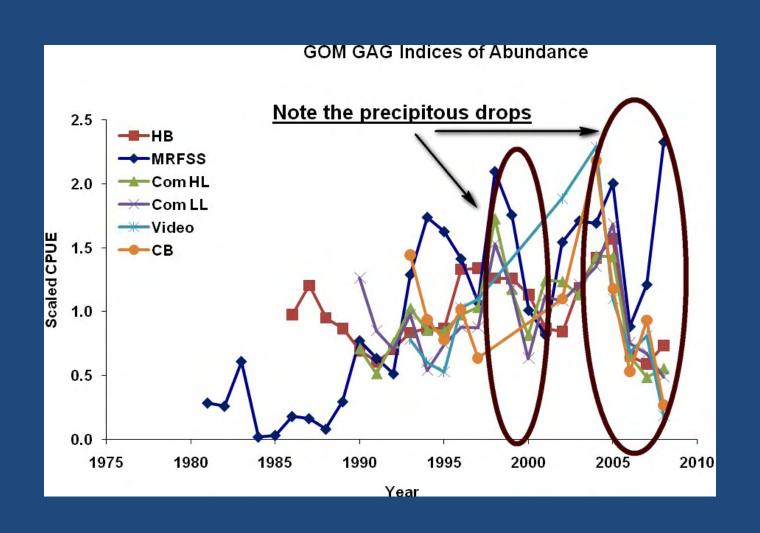
Red Snapper Rebuilding

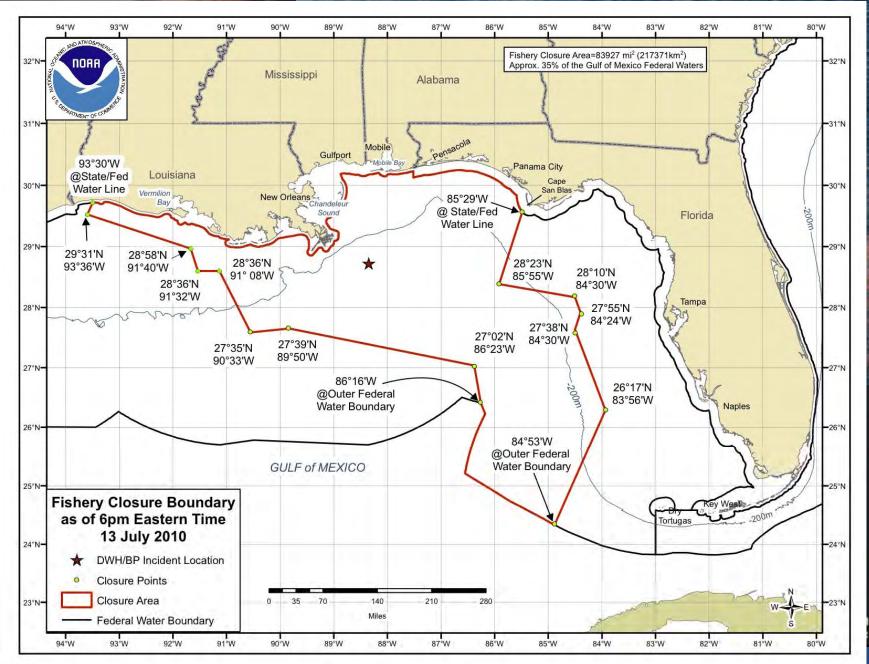
Projections: Estimated Yield @ F_{26% SPR}



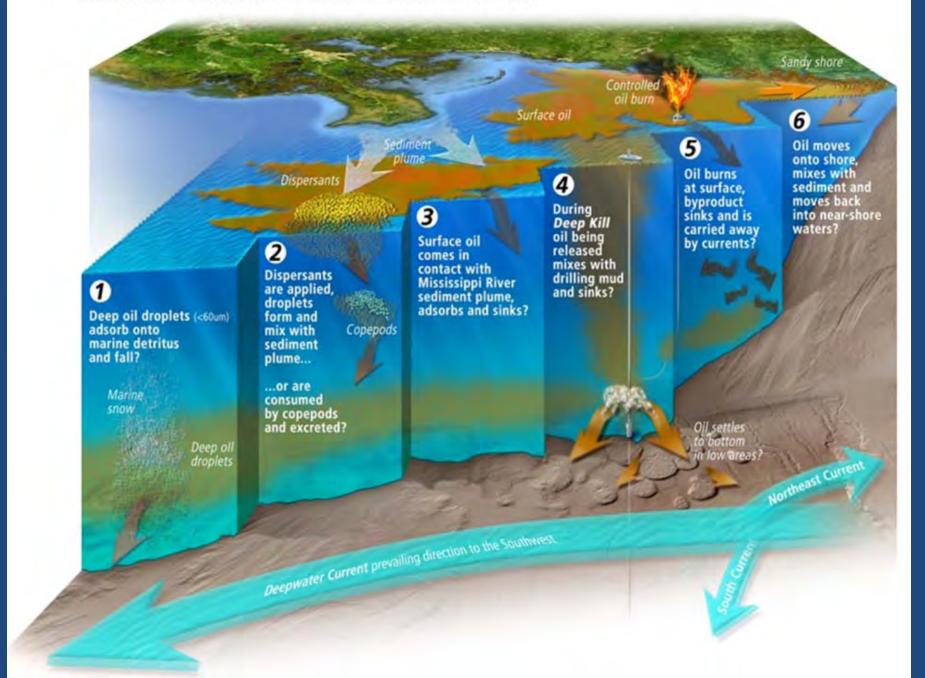


Gag Grouper

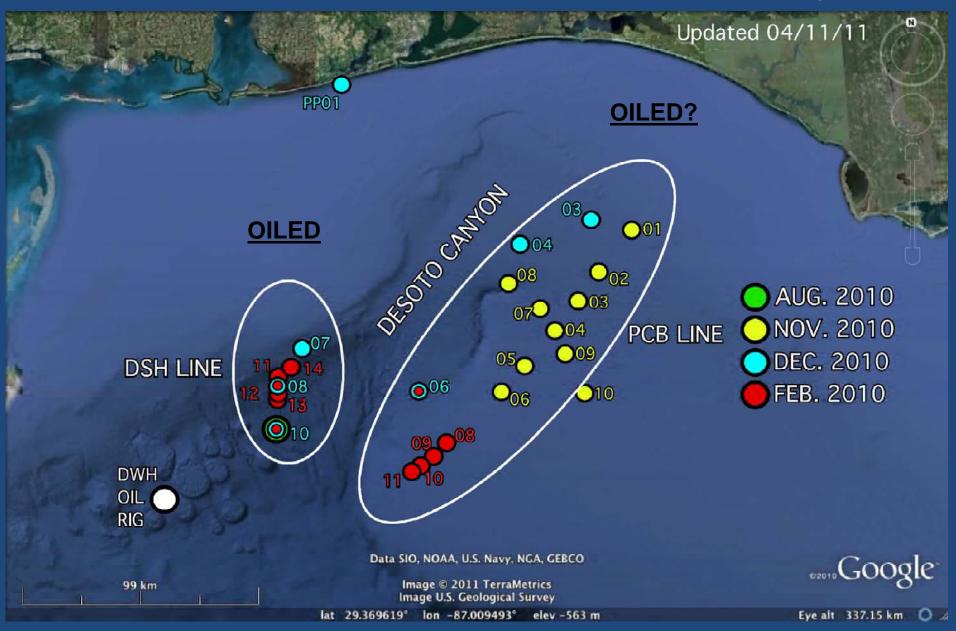




Potential Scenarios for Oil in Sub-surface Areas



Full depth transect SE of DeSoto Canyon

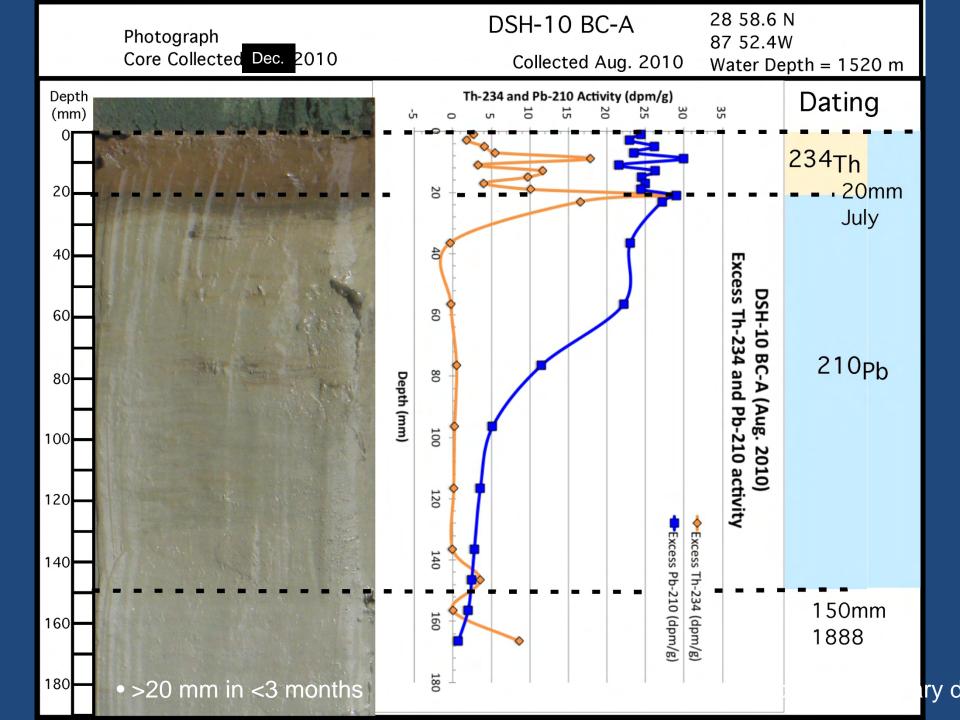


• "Bathtub rings" hypothesis

8-9 cm of sediment in <6 months?!



First dark brown layer appears at 0.6 cm (August),
 2-2.5 cm (December), and 8-9 cm (February).



Effect on benthic biota: DSH-10 core top



Cibicidoides wuellerstorfi (normal)

Brown and Flower, preliminary data



Cibicidoides wuellerstorfi (deformed)

• 8 of 42 specimens deformed (hydrocarbon impact?)



Crises of Confidence are going to develop, threatening the region's





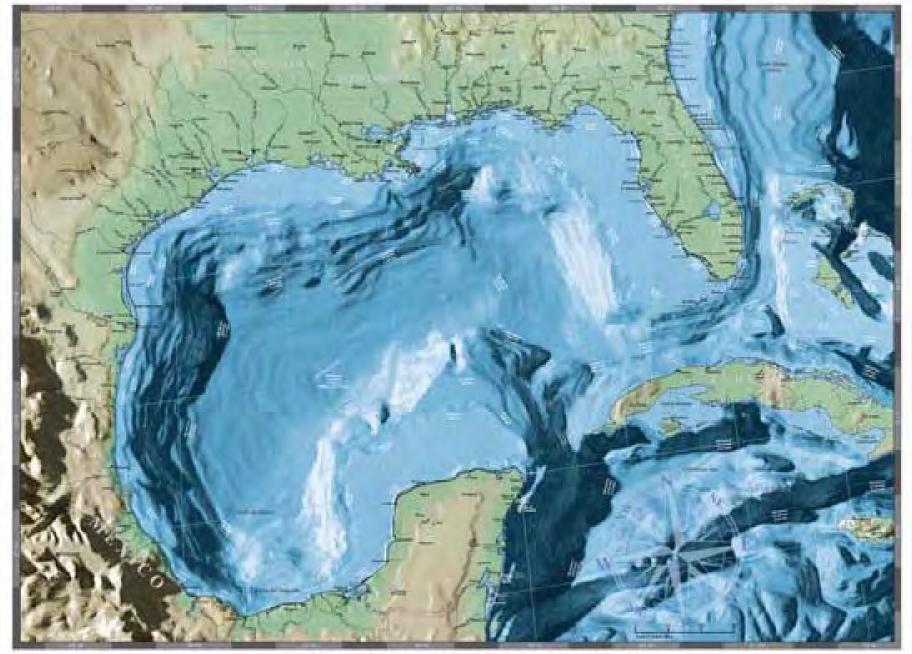


SUSTAINABLE FISHERIES FOR STRONG COASTAL ECONOMIES

- Estuarine Habitat Restoration
 - Coastal Estuaries
 - Oyster Reefs
 - Sea Grasses (example restore prop scarring)
- Marine Habitat Protection
 - Hard Bottom and Patch Reefs (example mooring balls to prevent anchor damage)

Purpose:

Ensure nursery habitat for marine fisheries and the areas most interacted with by human activity remain healthy and productive.



GULF OF MEXICO SEAFLOOR

SUSTAINABLE FISHERIES FOR STRONG COASTAL ECONOMIES

- Co-Operative Research with Fishermen
 - Barotrauma Research to reduce dead discarded fish
- Enhanced Data Collection and Monitoring
 - Modernize how catch data is processed so decisions can be made faster
- Improving Information in Stock Assessments
 - Habitat Mapping will exponentially improve accuracy of stock assessments

Purpose:

Modernize highly valuable recreational and commercial fisheries are evaluated to maximize fishing opportunities within sustainable catch limits.

SPECIES PROTECTION

- Enhanced Marine Mammal Stranding Networks
 - Chronically underfunded
 - Largely Volunteer based
 - Infrastructure and equipment is poor
- Habitat protection and improvement
 - Upgrade signage in areas of potential interaction
 - Reduce human impact within species habitat areas
 - Prioritize habitat improvements for species

Purpose:

Enhanced wildlife viewing and tourism promotion. Learn about problems with marine mammals before they become bigger problems.

Fishery Enhancement

- Hatcheries
 - Unproven in offshore fisheries, only 1% 4% improvements envisioned for Spawning Potential Ratio (SPR)
 - Cost Benefit Analysis
 - DNA Tagging to monitor effectiveness
- Artificial Reefs
 - Science does not support as Ecosystem Restoration
 - Assumes the Gulf is Habitat limited
 - Improper location detrimental to juvenile habitat
 - Heavy fishing pressure

Purpose:

Enhance Fishing Experiences.

与

NRDA wasn't built for the "unknowns" of a blue water oil spill...

NRDA requires proof of damage from the oil;
 a rarely immediate event in blue water.



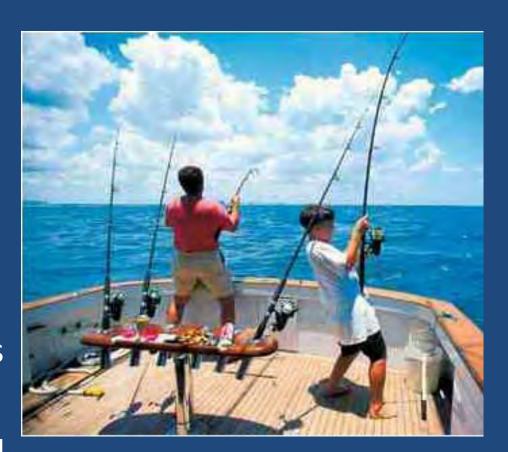
...Clean Water Act (CWA) fines are ONLY resource to monitor "unknowns" of the oil spill.

 Restoration in blue water is <u>long term</u> <u>research and monitoring</u> of "unknowns" before they become serious problems.



Recommended Restoration Strategies

- Restore, Protect and Maintain Coastal and Marine Habitats
- Restore, Protect and Maintain Wildlife
 Populations
- Sustain Globally
 Competitive Gulf Fisheries
- Invest in real time monitoring of recreational fisheries to maximize fishing opportunities



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The Gulf of Mexico

Most productive body of water in the World:

- 615,000 sq miles
- Contains 660 quadrillion gallons of water
- 14,383 ft at its deepest point
- Over 15,000 species in Gulf Waters
- 1.4 billion pounds of commercial seafood
- 44% of US marine recreational catch
- 50% of the nation's wetlands
- Diversity Habitats LMR: marsh & mangroves, corals and seagrasses, fish, oysters, turtles, marine mammals, shorebirds, crabs and shrimp

23 million marine recreational fishing trips/year

47% of recreational catch is released

198 sq miles converted from marsh to open water from Katrina & Rita



The Gulf of Mexico

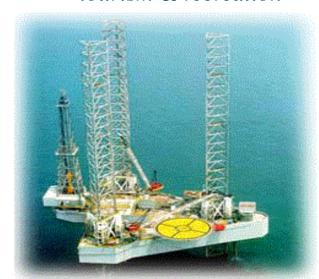
Vital Economic Engine for the Nation:

- 8.3 million coastal jobs (> 120,000 oil & gas)
- 3700 active oil & gas platforms
- \$5–6 billion annually to the U.S Treasury
- Transportation corridor for the world
- Key to the energy security of the nation
- Largest watershed in North America
- The nation benefits, the region suffers

The population of the Gulf Region increased by 109% since 1970

\$15.6billion in oil & gas wages

8% of the jobs are in tourism & recreation



The Gulf of Mexico

Vital Economic Engine for the Nation:

The population of the Gulf Region increased by 109% since 1970

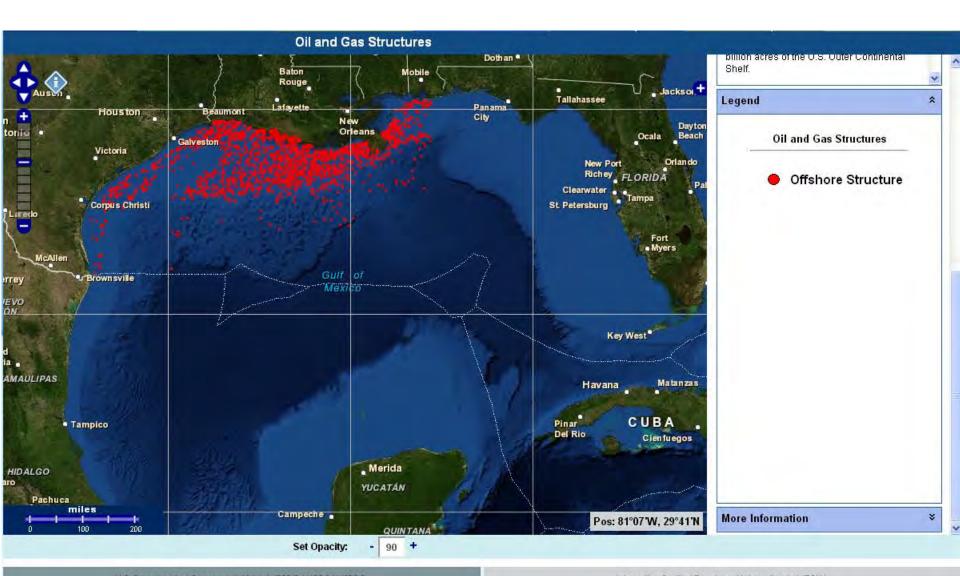
- > 56 Million in Gulf States, 21 million in coastal area
- 78% of total U.S. Shrimp Landings
- 62% of U.S. Oyster Landings
- 7th in global Gross Domestic Product
- 50% of the nation's trade tonnage
- >50% of National Oil & Gas Production
- ~50% of National Refinery Capacity

\$359 billion in wages

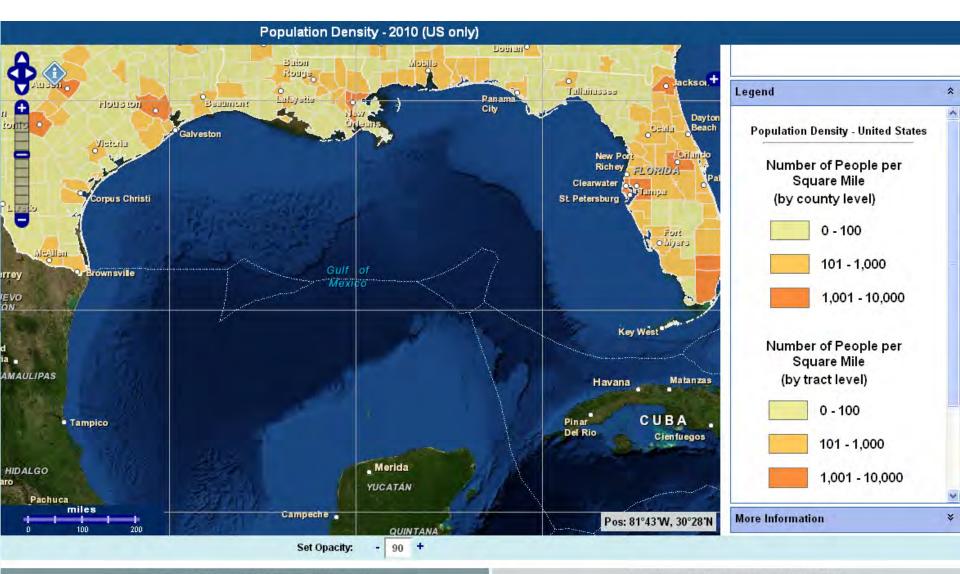
8% of the jobs are in tourism & recreation



Extensive Oil & Gas Structures



More on Population Distribution



Gulf Challenges

- Sustaining Gulf Economy
- Habitat Loss (subsidence)
- Sediment Management Excessive Nutrients (Water Quality)
- Tropical Storms Man-made disasters
- Fresh-Water Inflow
- Sea Level Rise
- Seafood Safety
- **Population Shifts**
- Fresh Water Inputs Harmful Algal Blooms Invasive Species
- Transportation Beach Closures

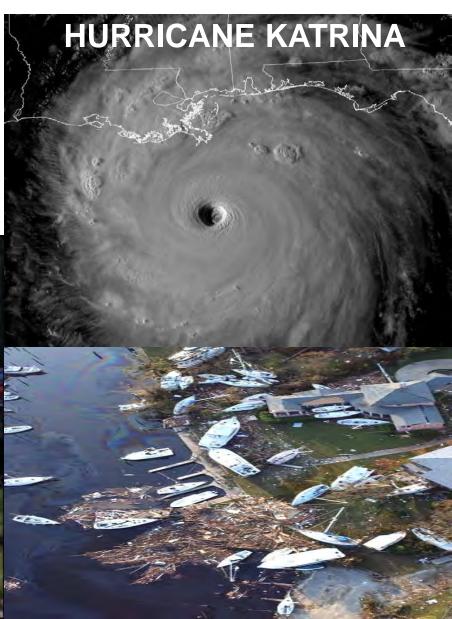


Gulf Challenges and Opportunities

Tropical Storms

- •MS/ Louisiana Recovery Road-map
- Gulf Coast Ecosystem Restoration TaskForce
- RESTORE





Gulf Challenges and Opportunities

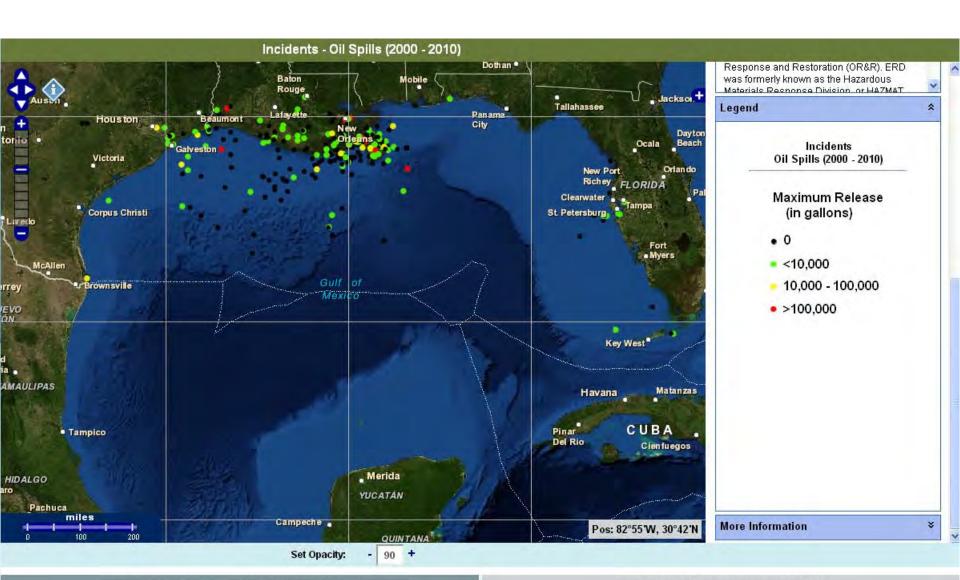
Deep Water Horizon

- Clean-up
- Data Collection
- NRDA
- Clean-Water Enforcement
- Research





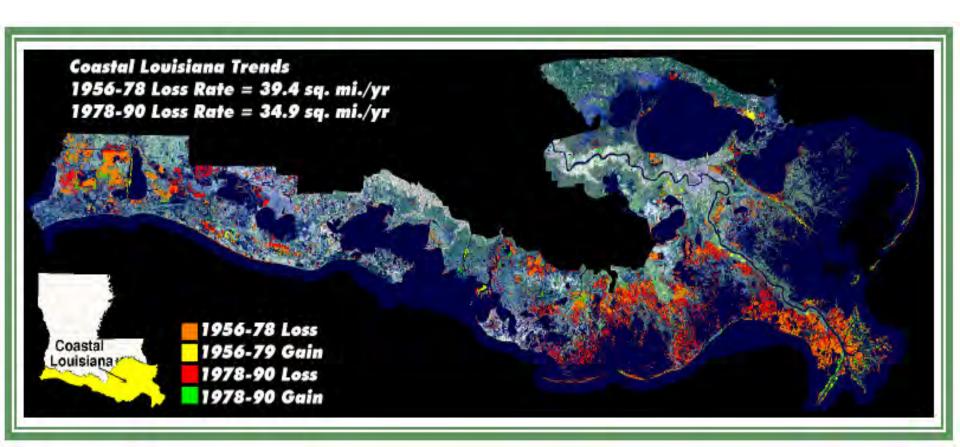
Previous Spills



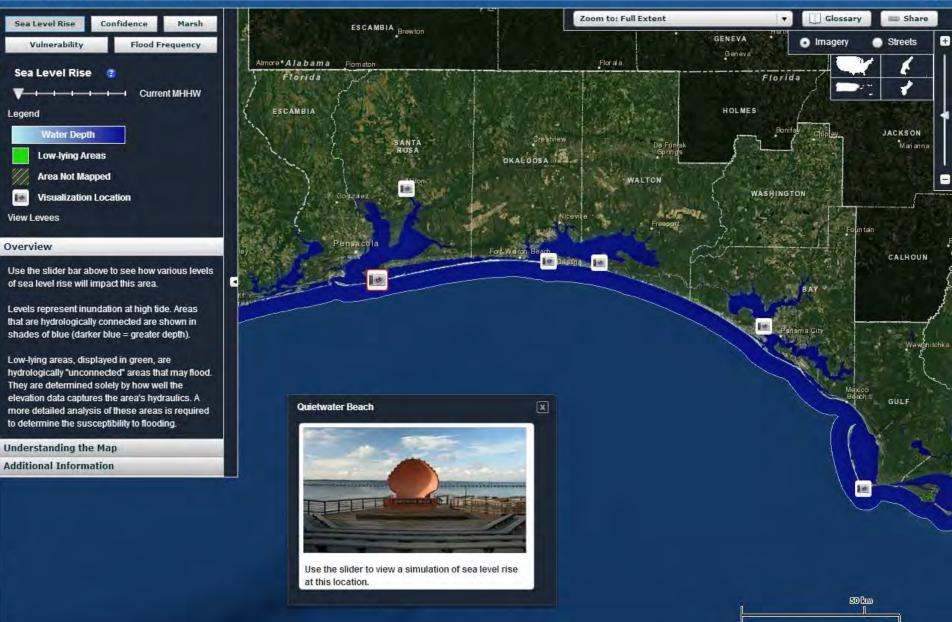
Gulf Challenges and Opportunities

Coastal Land loss

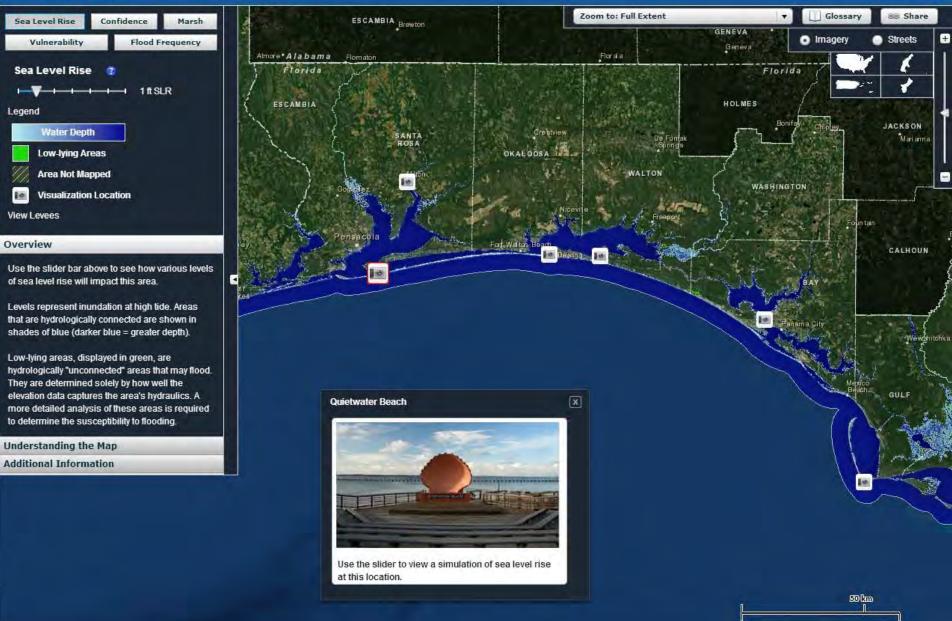
- •3.4 Million Acres of Wetlands
- Losing an area the size of a football field every 38 minutes
- •2,400 sq miles by 2050



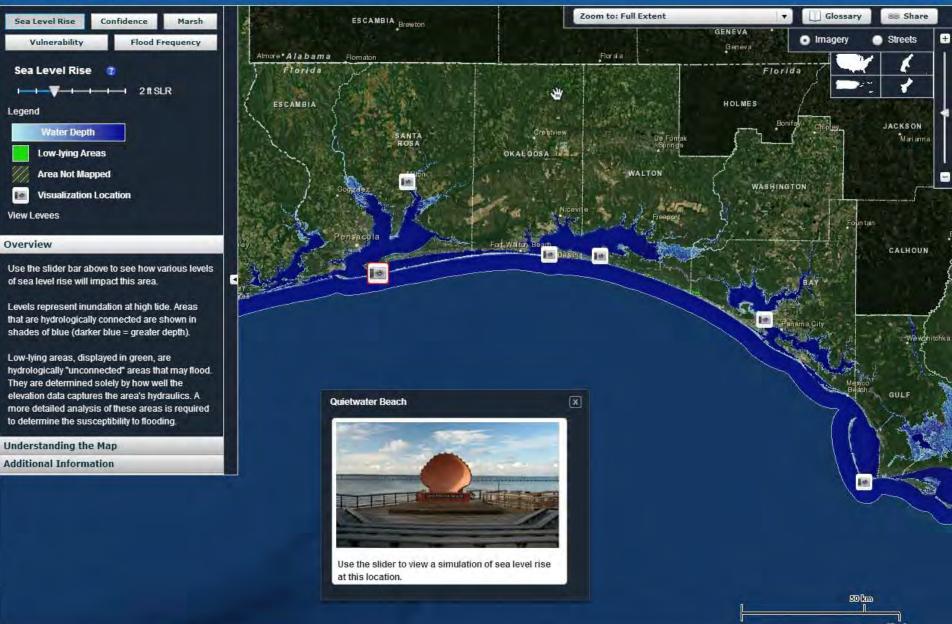








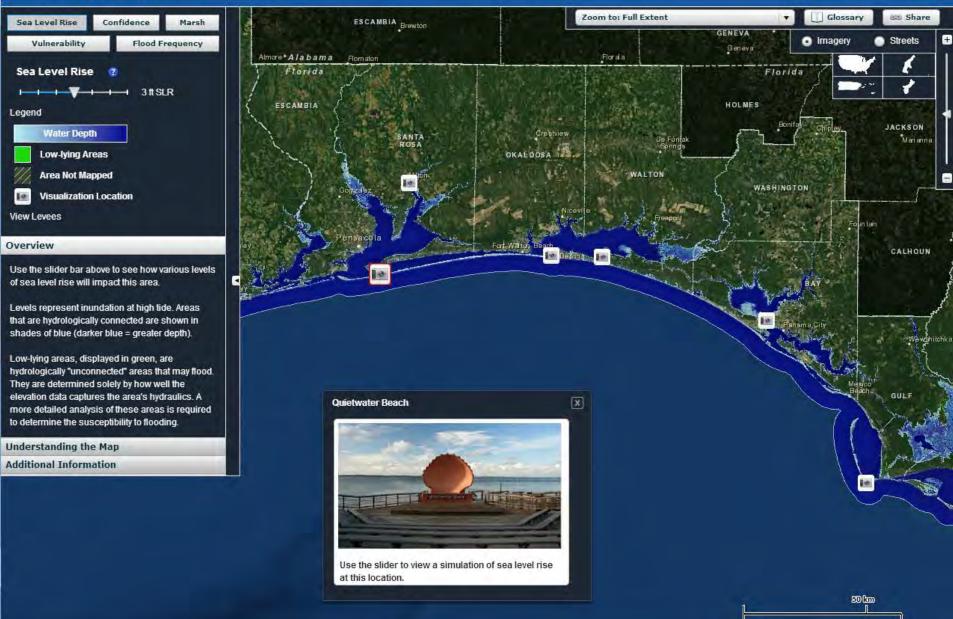




NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

USGS--Water Resources of the United States - Hydrologic Unit Maps water.usgs.gov/GIS/huc.html

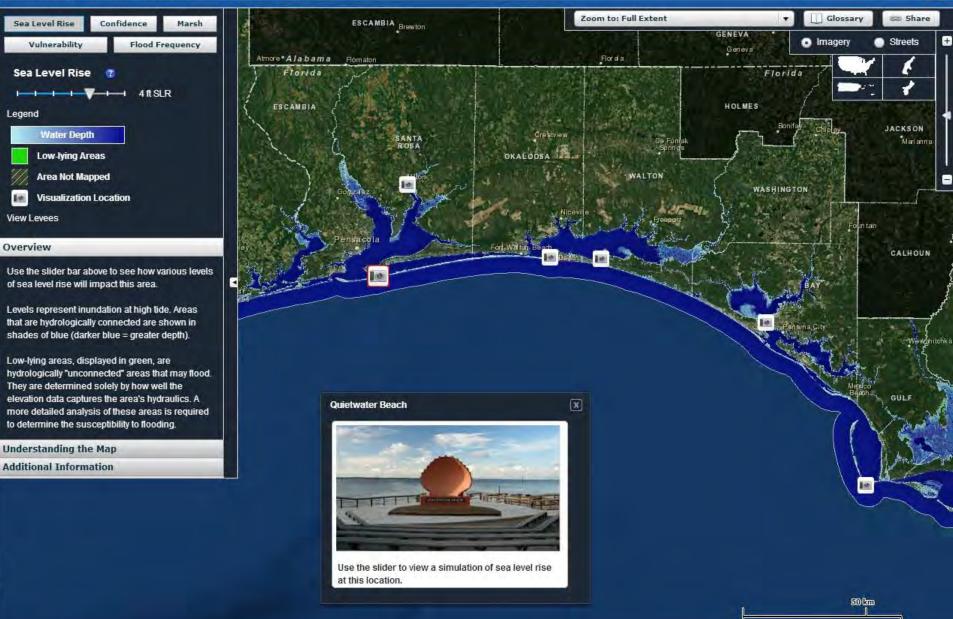




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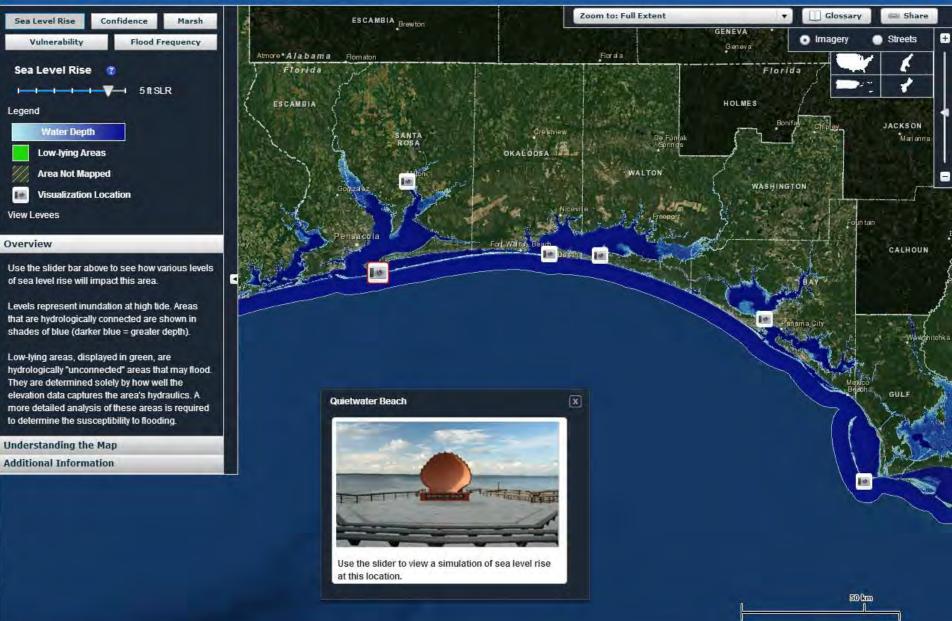
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION





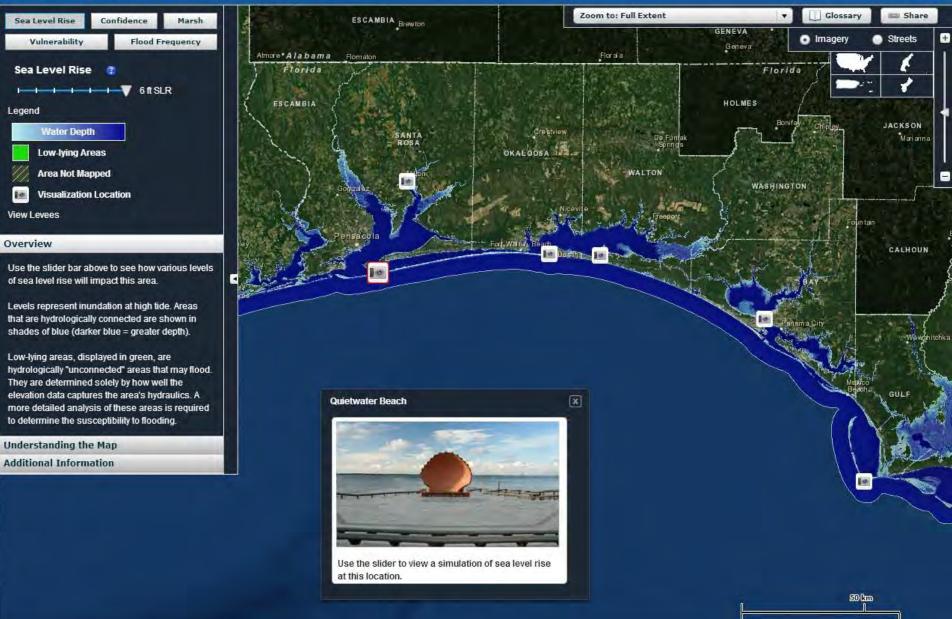
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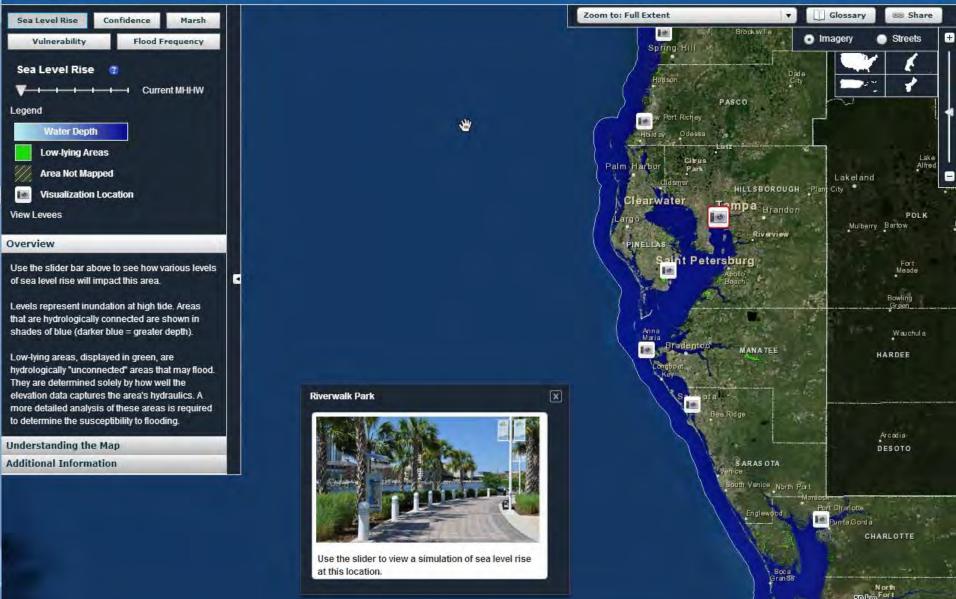
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



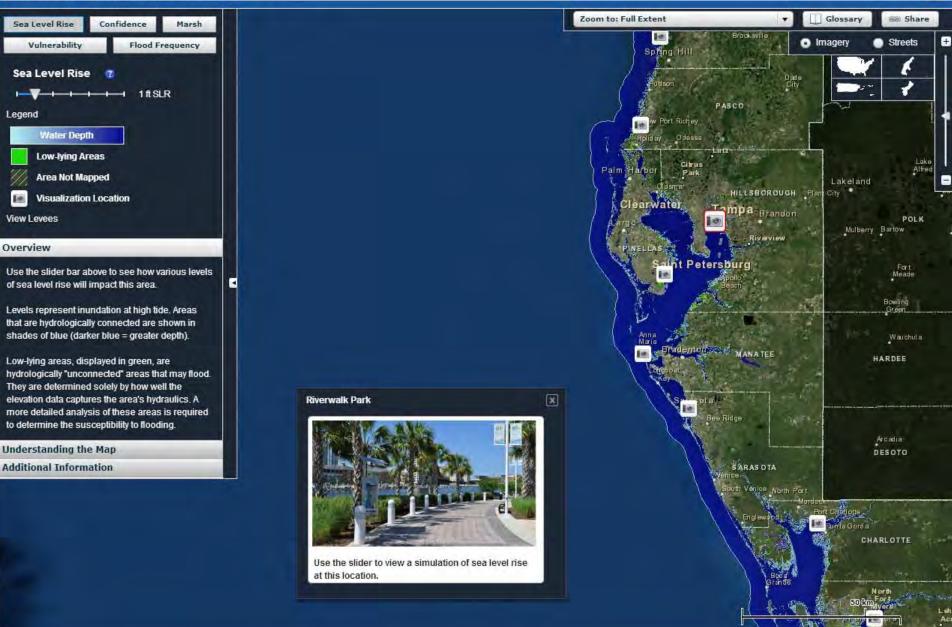


40 mf

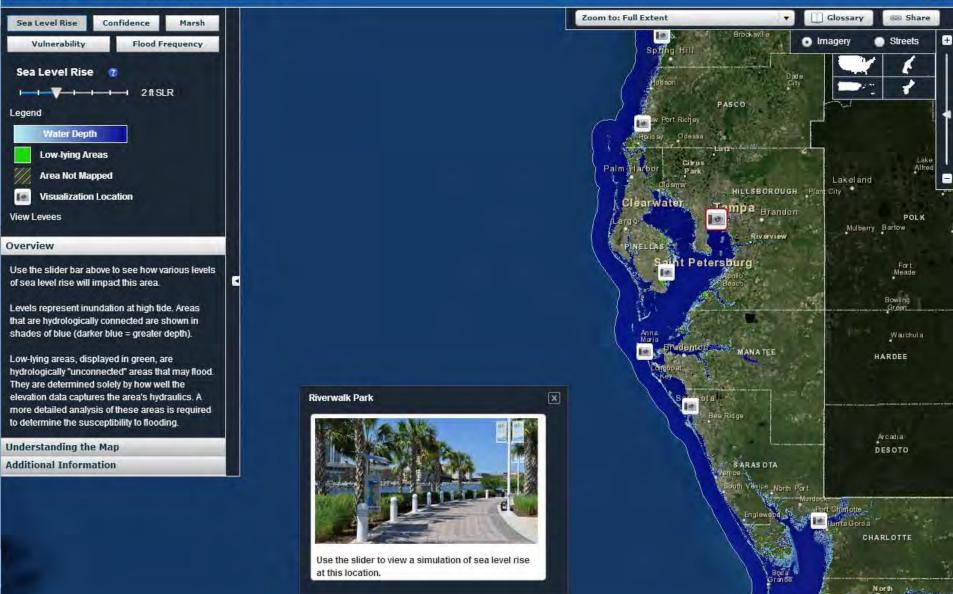




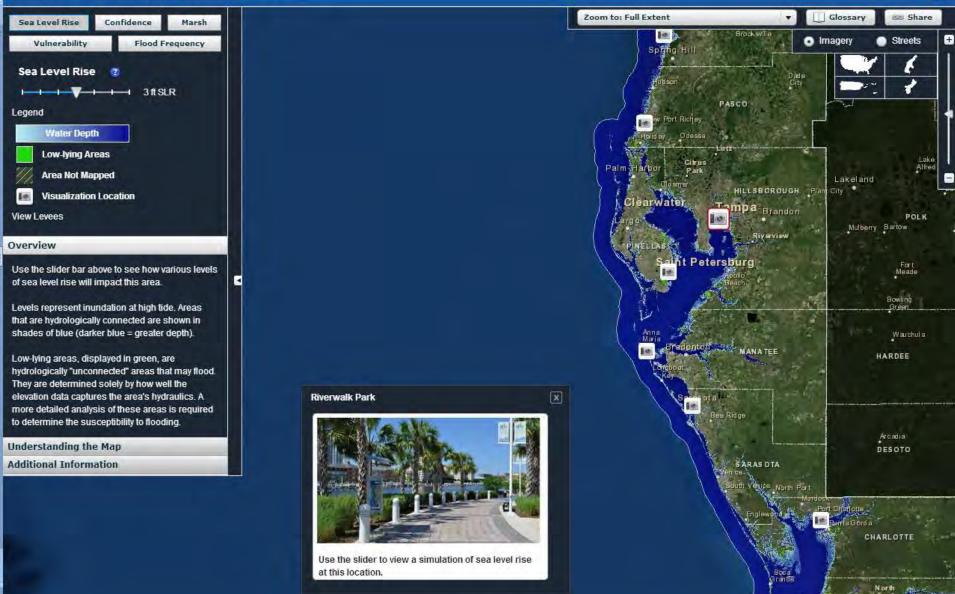




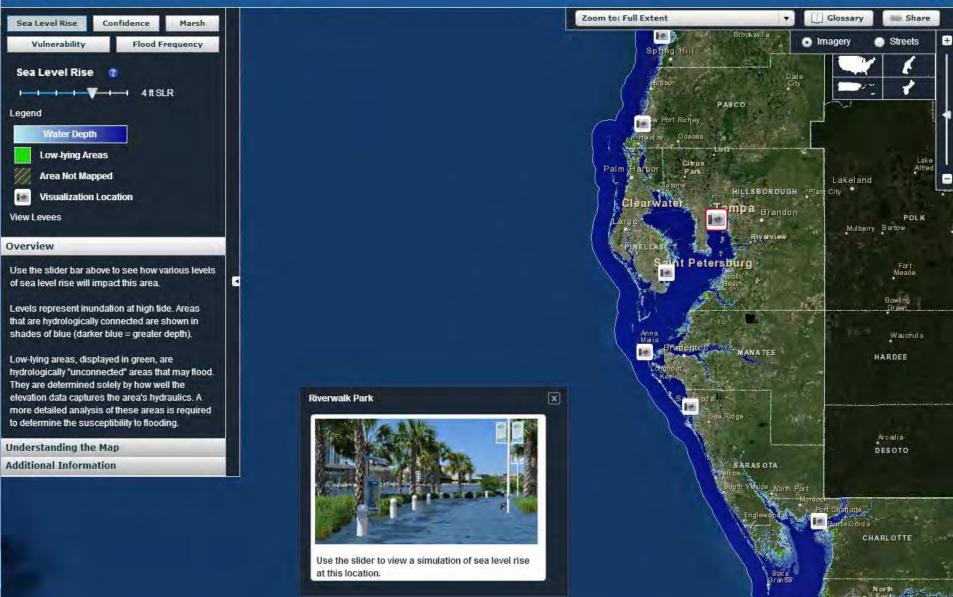




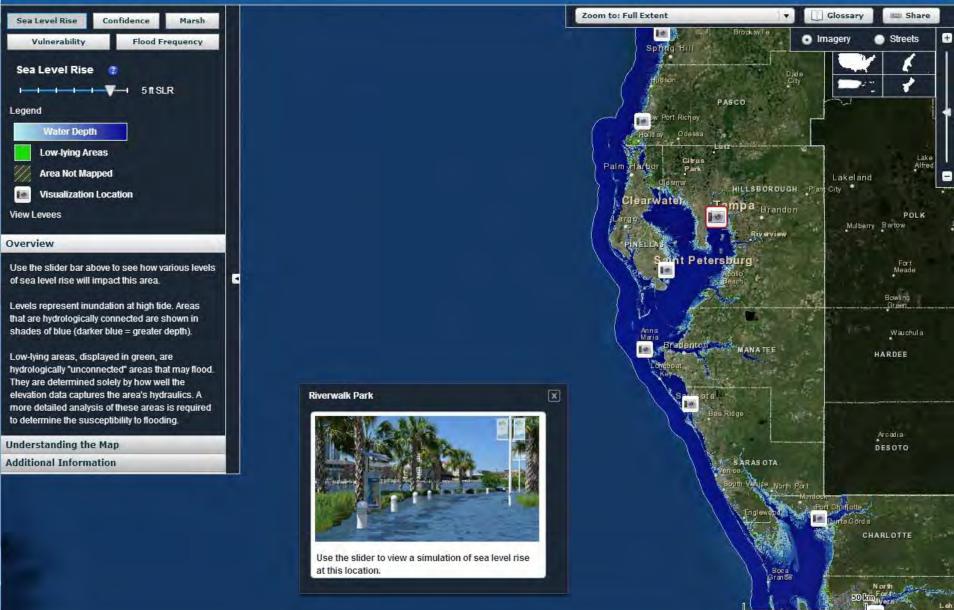




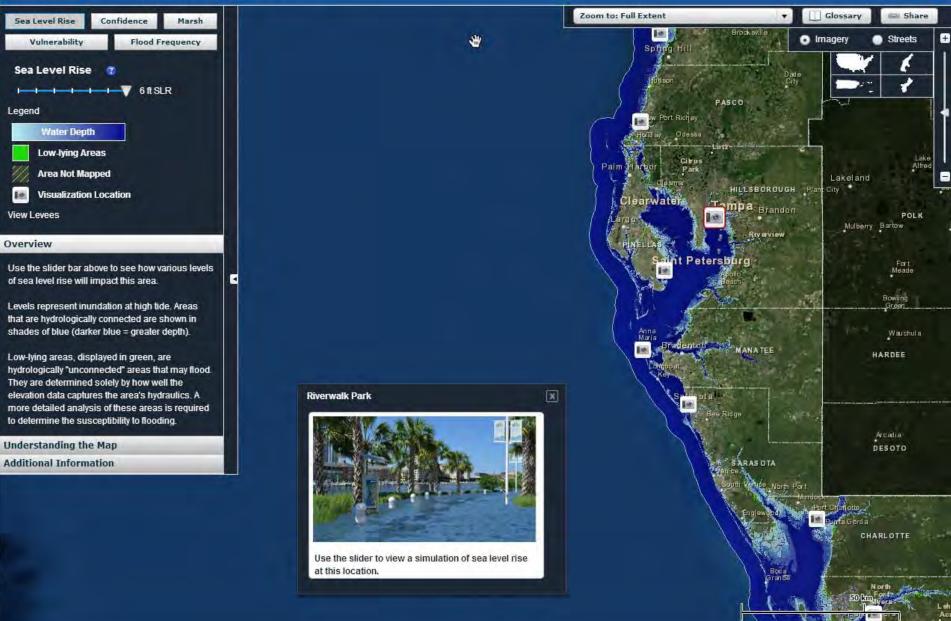






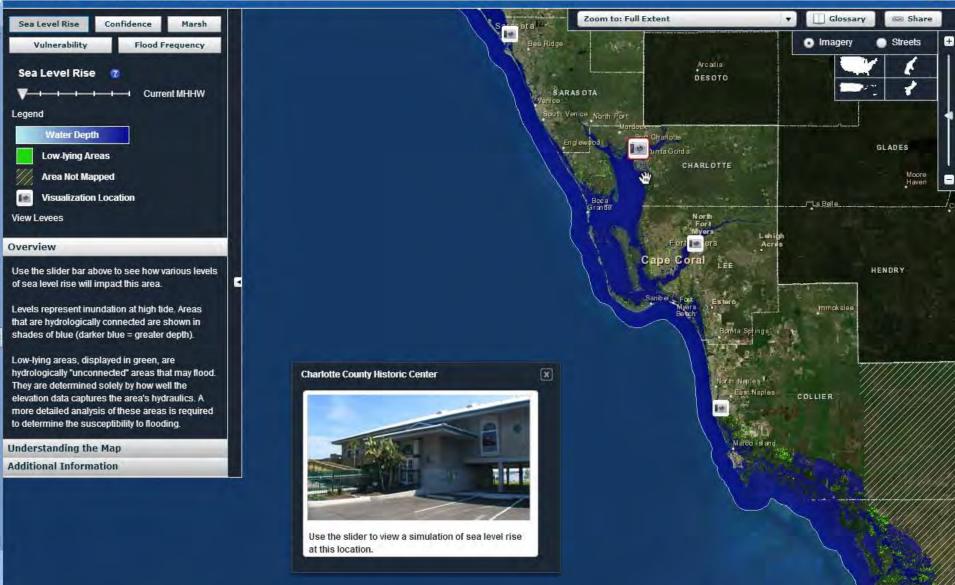






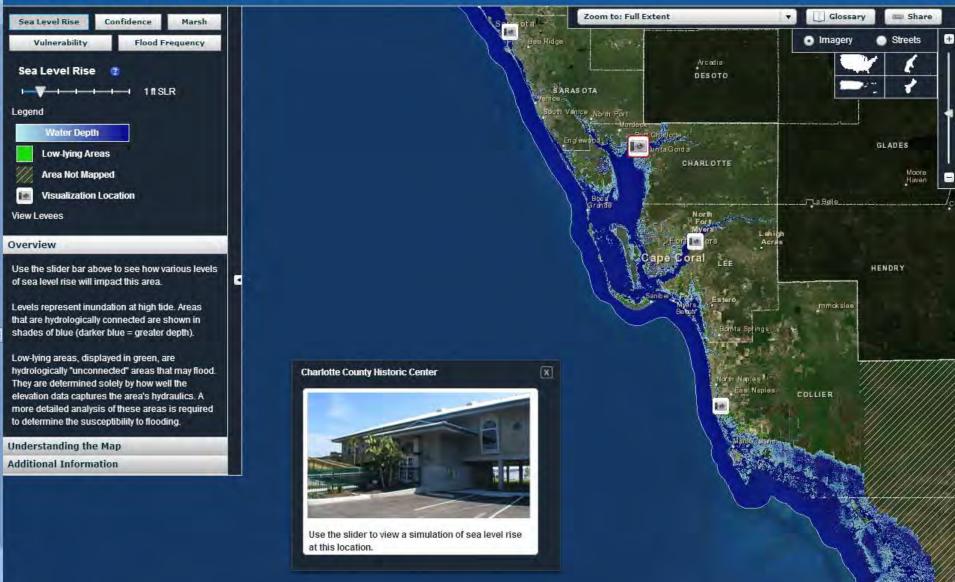
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



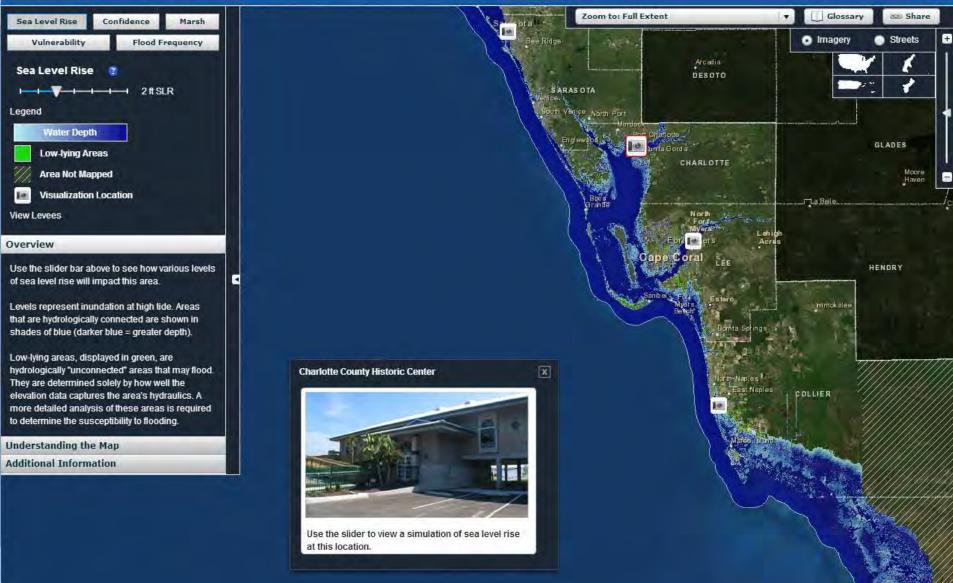


50 km

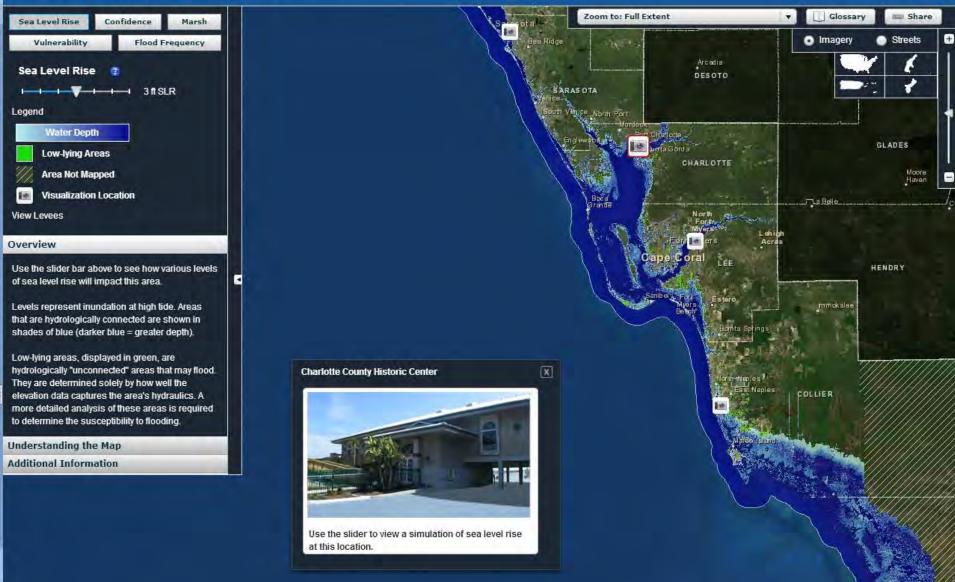






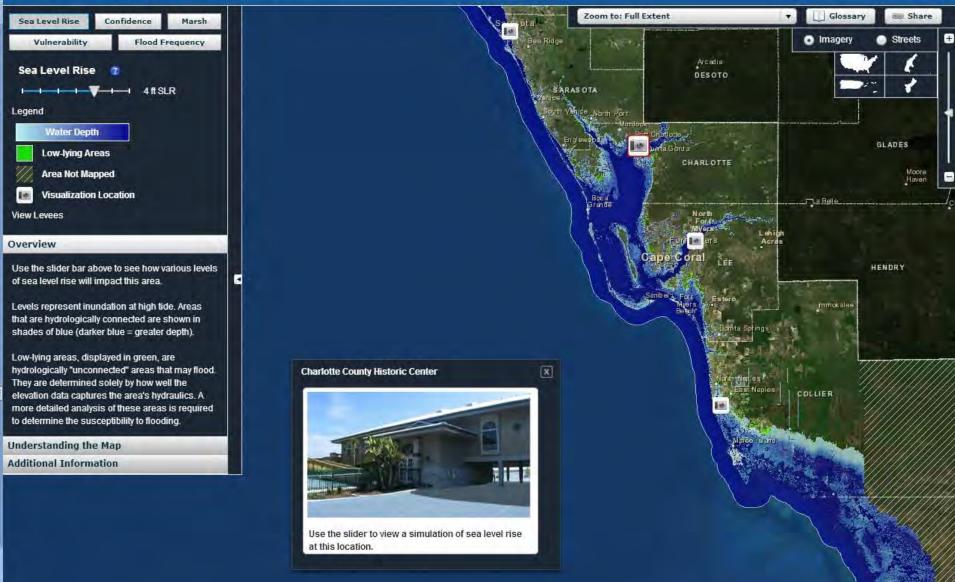






NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



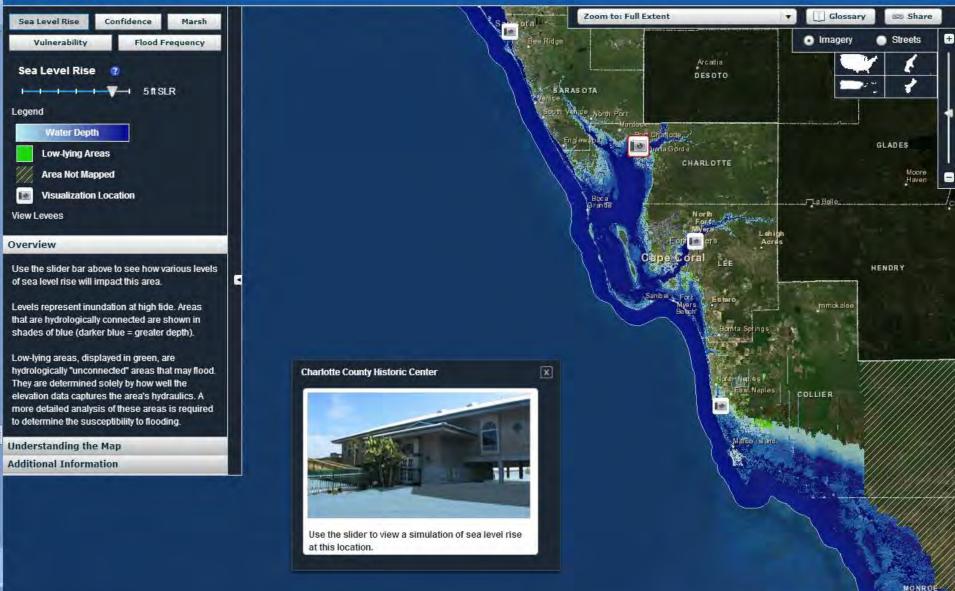


500km

MONROE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



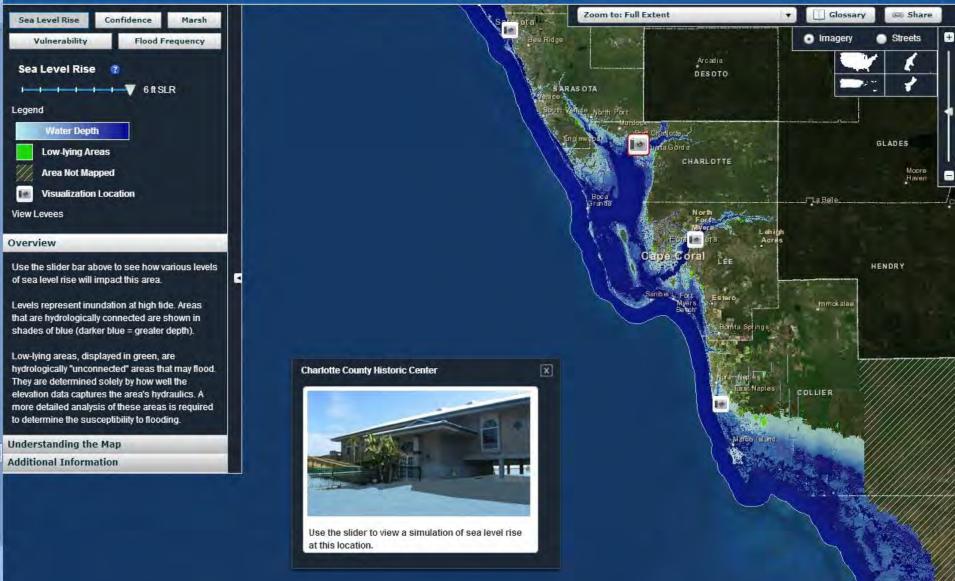


50 km

40 mi

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



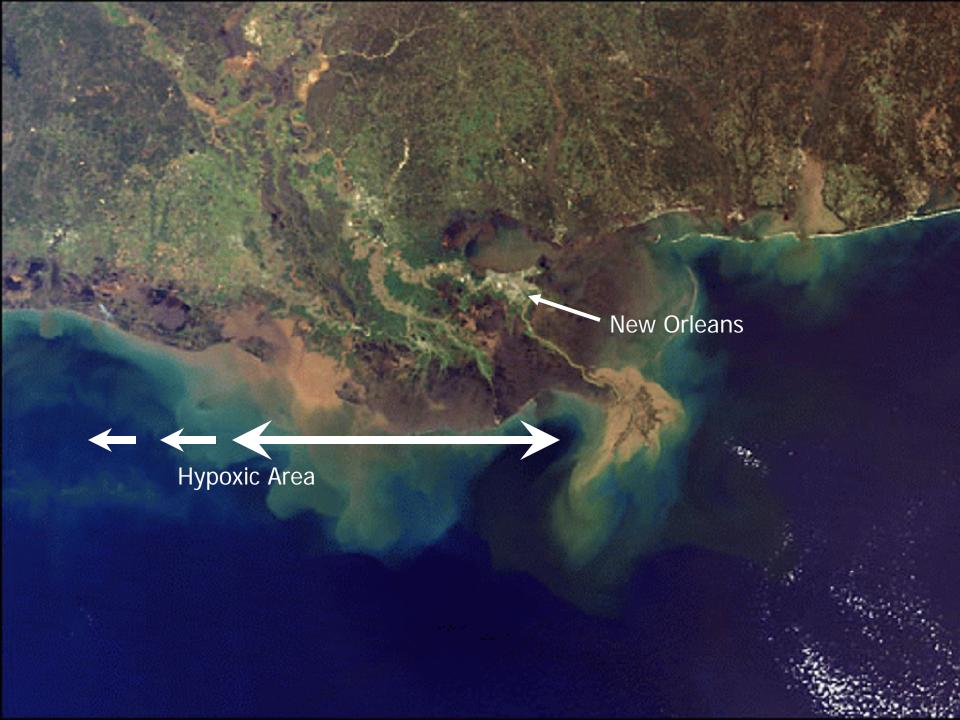


50 km

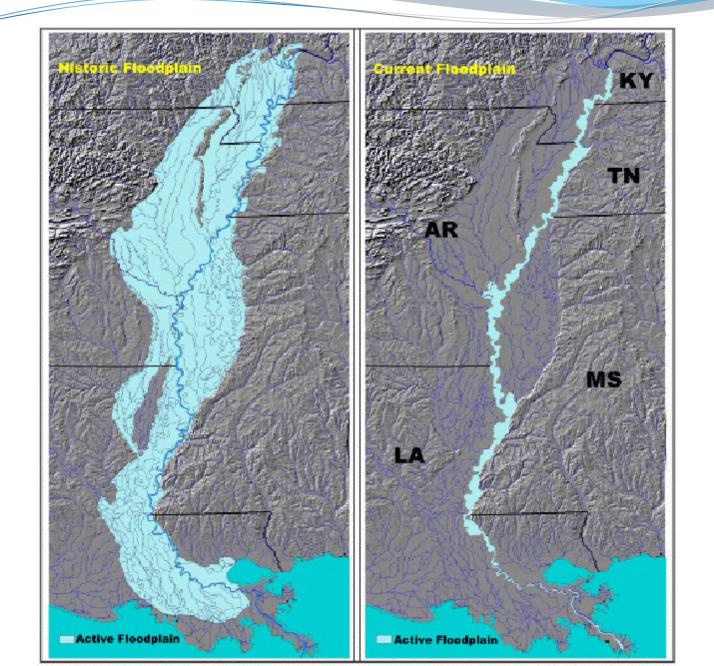
Gulf Challenges and Opportunities

2nd Largest Hypoxic Zone in the World

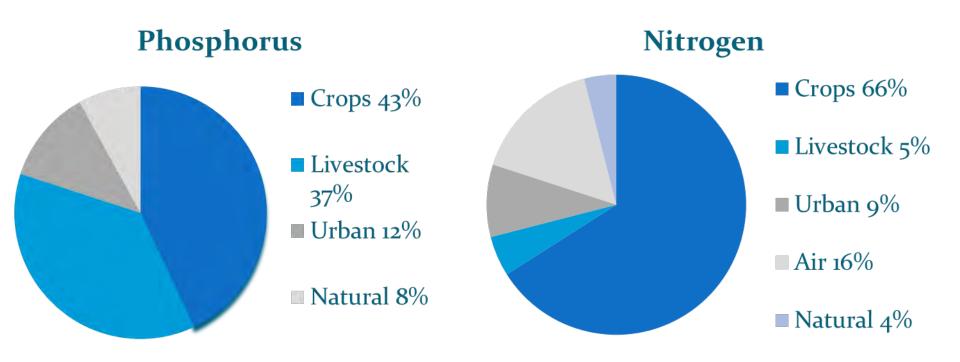


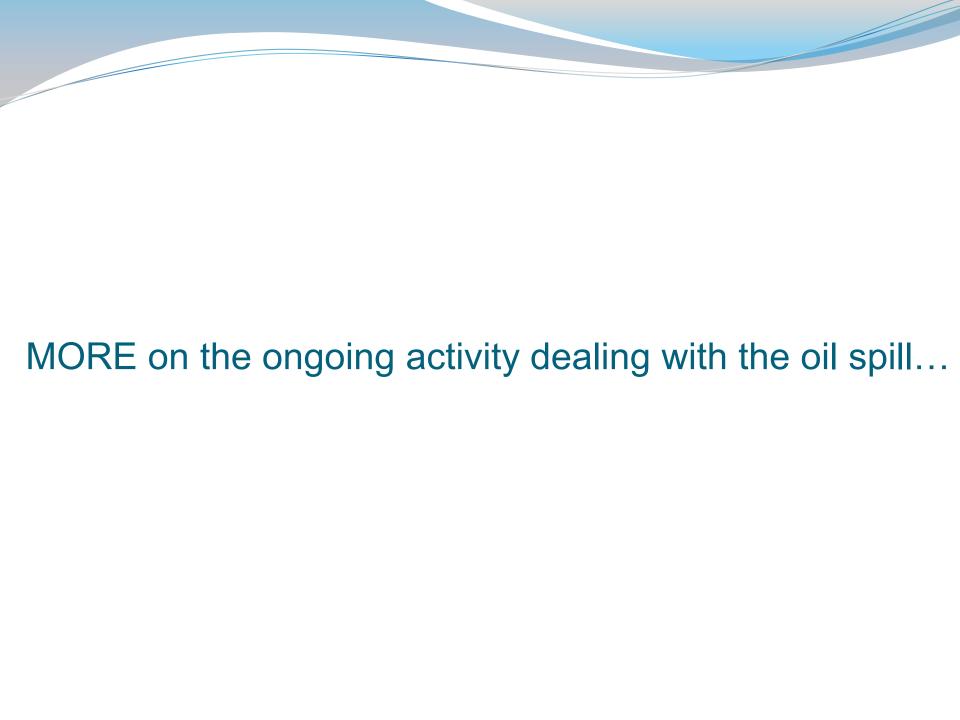


LOSS OF NATURAL FLOOD STORAGE



Sources of Nutrients into the Gulf





Natural Resource Damage Assessment (NRDA)

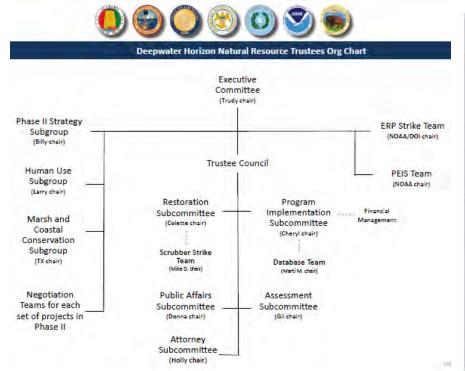
- how bad was the injury?; what do we do to recover from the injury?
- Paid for through the Oil Pollution Act

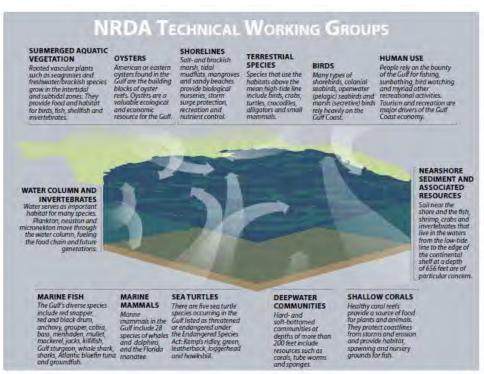
RESTORE Act

- Passed by Congress & signed by the President this year
- Lays out a program to spend Clean Water act Civil fines for restoration and economic development activities

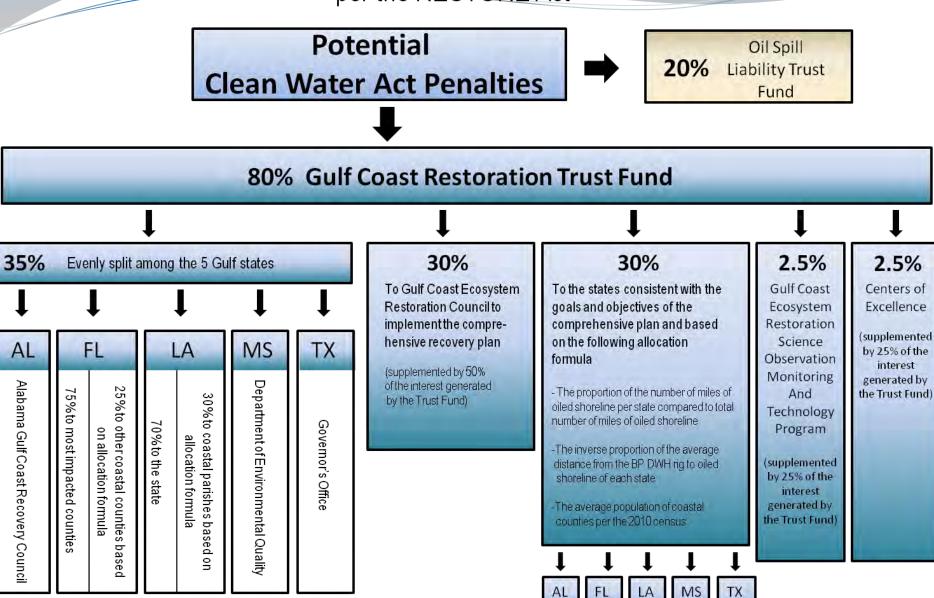
NRDA: Structure and Requirements

Conducts its assessment, planning, and restoration work through an Executive Committee, 5 subcommittees with 19 teams or workgroups, 3 subgroups and 2 additional teams. A total of 30 distinct organizational units.





Distribution of Potential Clean Water Act penalties to Gulf Recovery per the RESTORE Act

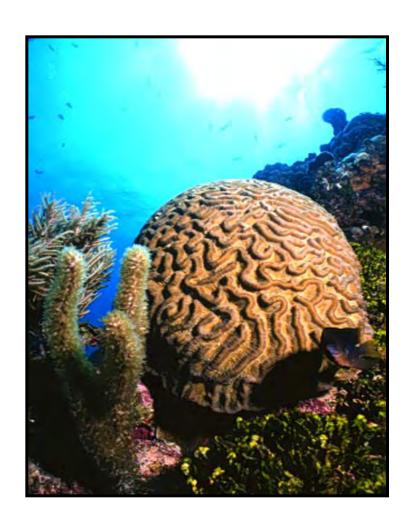


Questions?

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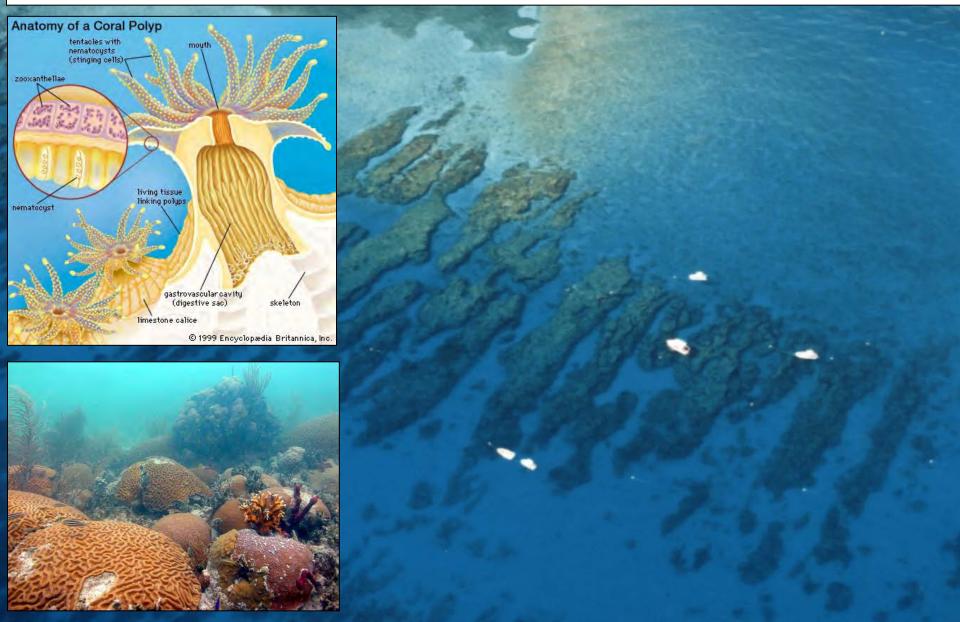
Coral Reef Conservation, Restoration, and Coastal Resilience in South Florida



James Byrne jbyrne@tnc.org 305.872.7071



Polyps...Colonies...Reefs...Ecosystem.....





















South Florida's Coral Reef Economy

Percent of County Income and Employment Tied to Reef Use

	Personal	
County	Income (a)	Employment
Martin	0.11	0.24%
Palm Beach	0.42	0.98%
Broward	2.19	4.19%
Miami-Dade	1.07	1.46%
Monroe	4.98	19.00%

(a) Personal income is income from all sources including employee compensation, proprietor's income, other property income and government transfer payments.

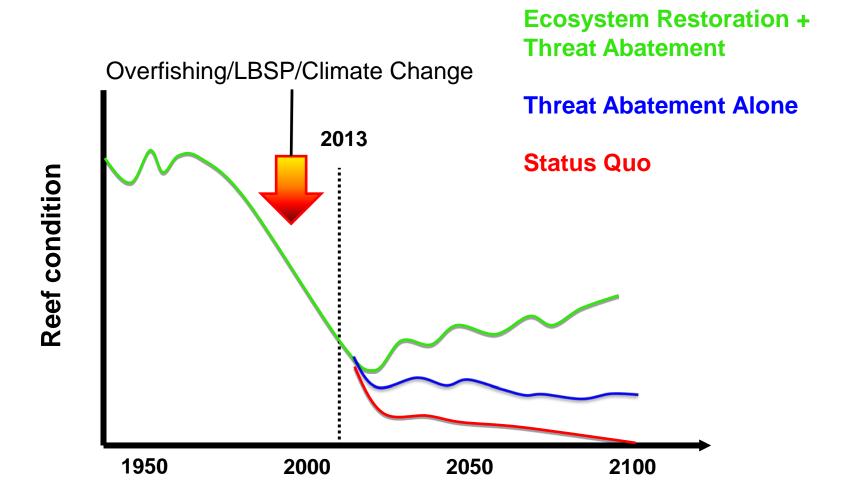
\$3,000,000,000 for all of SE FL in 2001

Johns et al. 2001

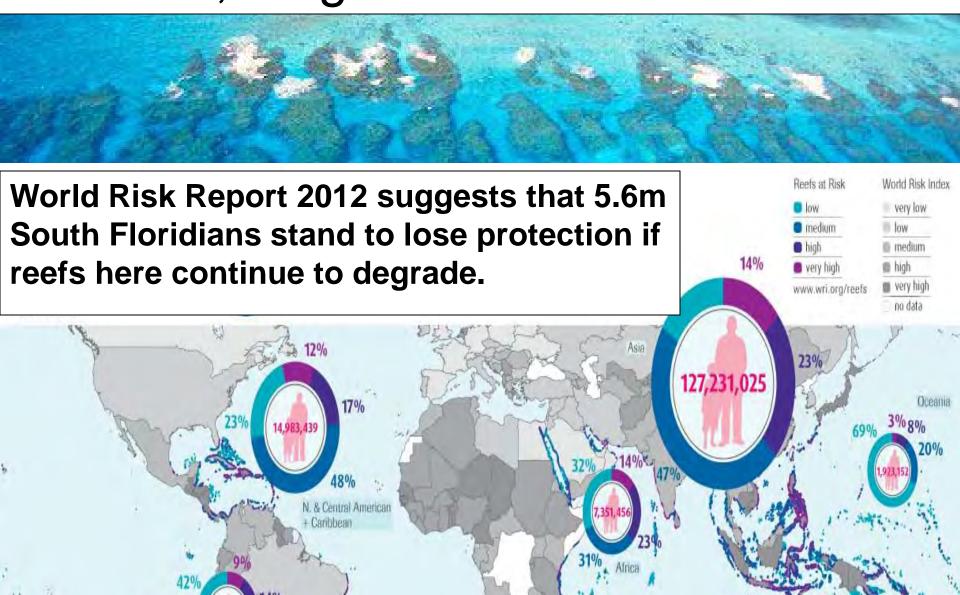
REEFS AT RISK IN THE ATLANTIC/CARIBBEAN **United States** Bermuda Atlantic Ocean Bahamas Gulf of Mexico Turks and Caicos Cuba Mexico Cayman vesser Antilles Puerto Rico Islands * Jamaica Haiti Dominican Republic Honduras Caribbean Sea El Salvador Nicaragua Costa Panama A Venezuela Colombia Pacific Ocean Guyana 700 Km 350 Coral Reefs Classified by Integrated Local Threat Level Low ● Medium ● High ● Very High ● Outside of Region Source: World Resources Institute, Reefs at Risk Revisited, 2011.



State of the Reef System



Reefs protect people and property from waves, surges and coastal erosion.







"Coastal Resilience" efforts tackle some of Florida's greatest challenges — storms and sea level rise — and make nature part of the response.

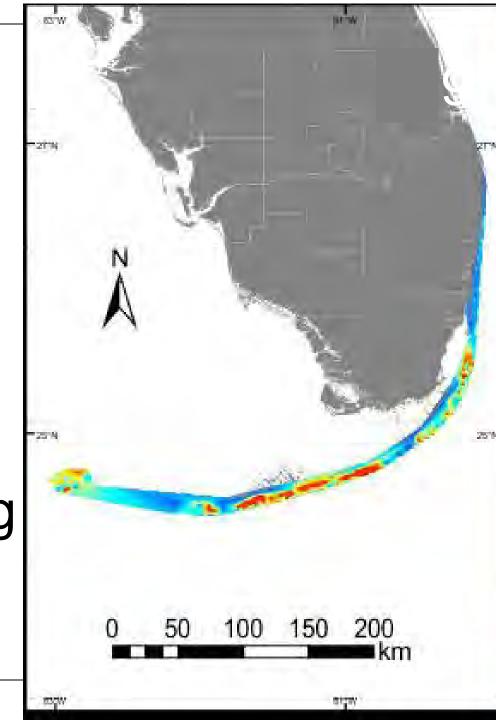




Where are corals most abundant?

Least prone to disturbances?

How does this compare to existing protected areas and zoning?





Global threats make local action more important than ever.

The Nature Conservancy



























CLIMATE CHANGE ACTION PLAN FOR THE

Florida Reef System

2010-2015



Incredible Acropora Corals

Elkhorn Coral

Staghorn Coral







We collect from diverse, wild colonies...

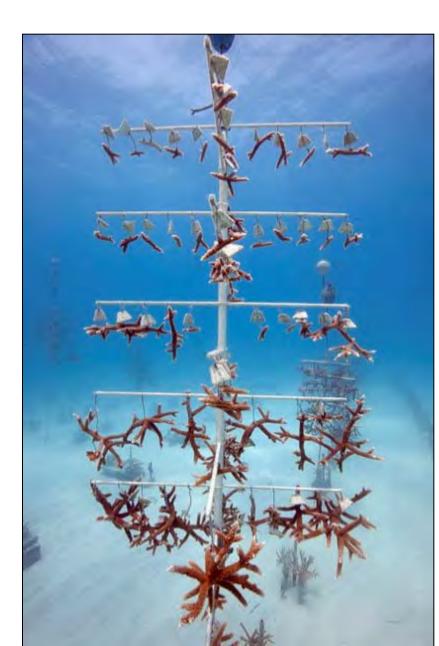




Grow them in coral nurseries...







Then restore <u>breeding colonies</u> to degraded reefs.



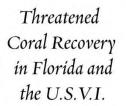


In 2012 we restored more than 5,000 corals at 34 reefs in Florida.





U.S. Virgin Islands



Nursery



Florida 25,500

corals

BROWARD

DADE





















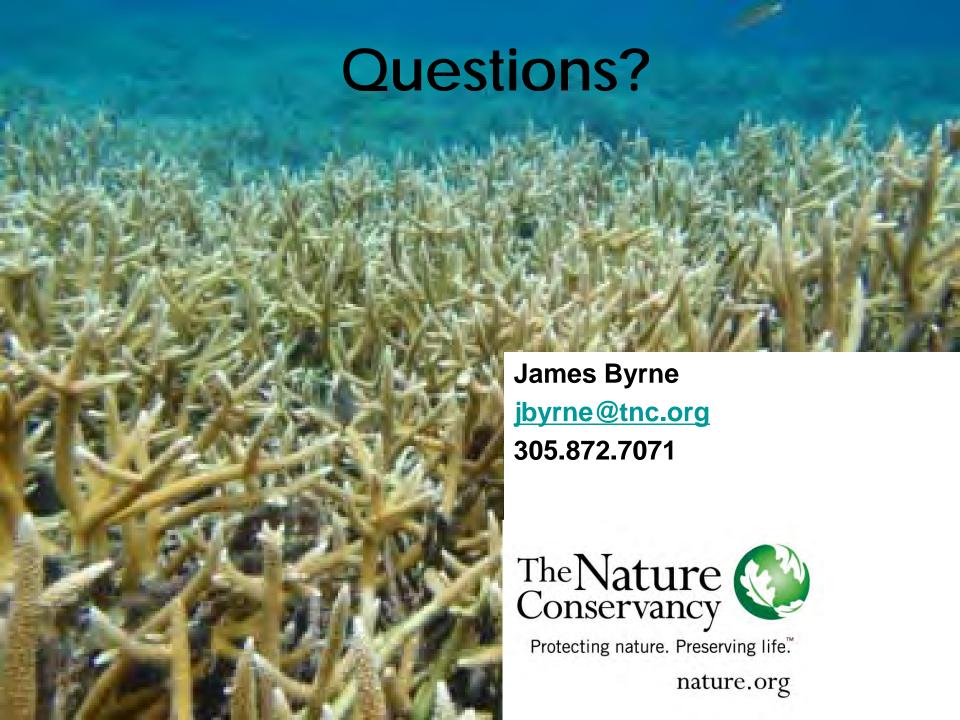






2,600 corals

Copyright 2009 The Nature Conservancy Prepared by J. E. Knowles









Watershed Approach Overview

Keith Wilkins, Escambia County
Darryl Boudreau, The Nature
Conservancy

- Regions
 - Panhandle
 - Big Bend
 - Southwest
 - South
- Major Watersheds
 - Water Quality
 - Critical habitats
 - Coastal Resiliency









- SW FL NEPs process is much further along with their history and Plan already developed
- NW FL is a work in progress
- Brings together stakeholders to identify the watershed challenges and status as well as projects to address them
- Meant to build on existing Ecosystem Restoration Plans developed by FDEP and the SWIM plans by the NWFWMD to specifically address the RESTORE criteria in a condensed format

- Consider Environment
 & Economy Together
 - Tourism
 - Military mission





July 4, 2010

Perdido Bay Perdido Bay Restoration Plan Perdido Bay SWIM Plan Stormwater Basin Plans

Pollutants:

- Fecal Coliform
- •Nutients TP, TN
- •BOD
- Mercury
- •303d Listed Impaired water body segments

Challenges:

Stormwater/Non-Point Source

Wastewater

Shoreline Alteration

Armoring/Erosion

Degraded Urban Streams

Habitat loss

Sedimentation

Water Quality

Strategies:

- Stormwater retrofits
- Agriculture BMP's
- Buffers
- Advanced Wastewater
- Sewer Upgrades/Retrofits and Septic Tank Abatement
- Habitat Protection and Restoration
- Sediment/Erosion
 Management







Pensacola Bay Pensacola Bay Restoration Plan Pensacola Bay Swim Plan Stormwater Basin Plans

Pollutants:

- •Nutrients TP, TN
- •BOD
- Fecal Coliform
- Mercury
- •303 d Listed Impaired Segments

Challenges:

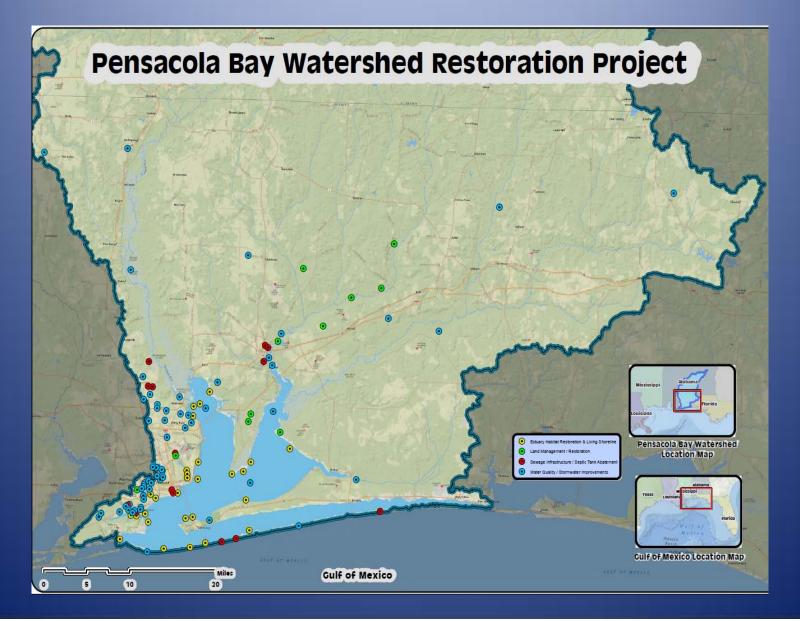
- •Stormwater runoff/Non Point Source
- Wastewater
- Sedimentation/Unpaved Roads
- Shoreline alteration
- Degraded Seagrasses
- Turbidity
- •Degraded Bayou Habitats
- Industrial Toxics
- •Marine Invasive Species

Strategies:

- Stormwater retrofits
- Agriculture BMP's
- Buffers
- Advanced Wastewater
- Sewer retrofits, septic tank abatements
- Road Stabilization
- Habitat Restoration
- Ballast Management















- TNC
- Escambia County
- Baldwin County AL
- City of Orange Beach AL
- Town of Perdido Beach
- ADEM
- FDEP
- **FWS**









SETAC









- TNC
- **Escambia County**
- Santa Rosa County
- City of Gulf Breeze
- FDEP
- **NWFWMD**
- **FWC**
- **FWS**
- Town of Century
- **Bay Area Resource Council**
- **WFRPC**
- Numerous NGO's











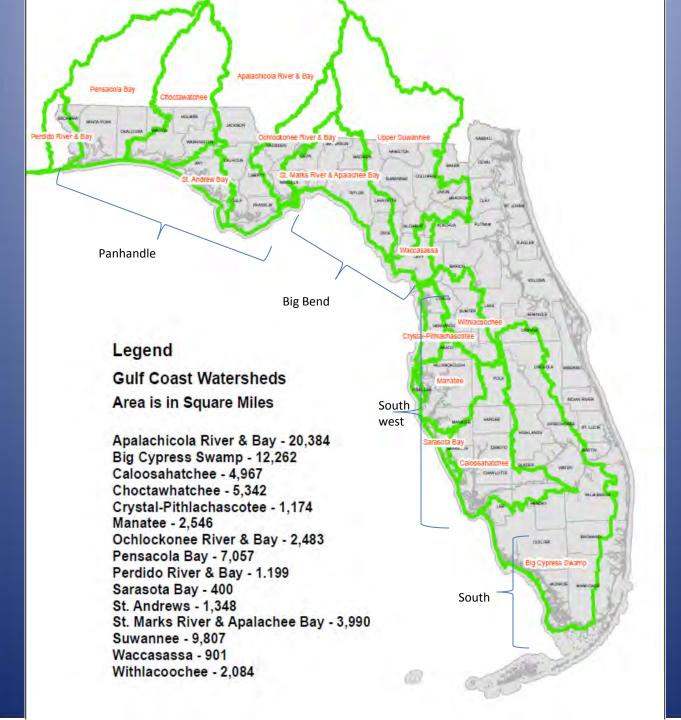


















- Key Points
 - Addressing TMDL impairments
 - Stabilizing the quality of our watersheds is critical for our economic recovery/development (DWH, Navy Federal and Plant Crist examples)
 - Develop the Consortium Plan from the Watershed Plans
 - best position FL for Federal Pots
 - Show FL state and local governments are working together and focused on the right issues.
 - Next step: develop means to work with each watershed group and draft the Consortium Plan.

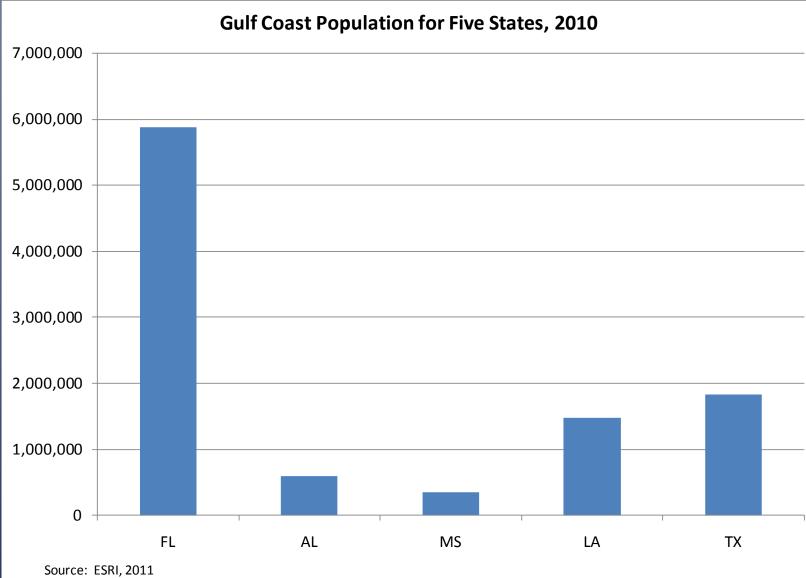




- Proposal to the Consortium:
 - complete each watershed plan
 - group plans by Region
 - Consolidate Regional plans into the Consortium Plan.
- Grouping process will identify opportunities to integrate project and leverage resources:
 - Similar projects (e.g., Sediment/Pass Management)
 - Staging of projects (e.g., dredging first then use material to create living shorelines)

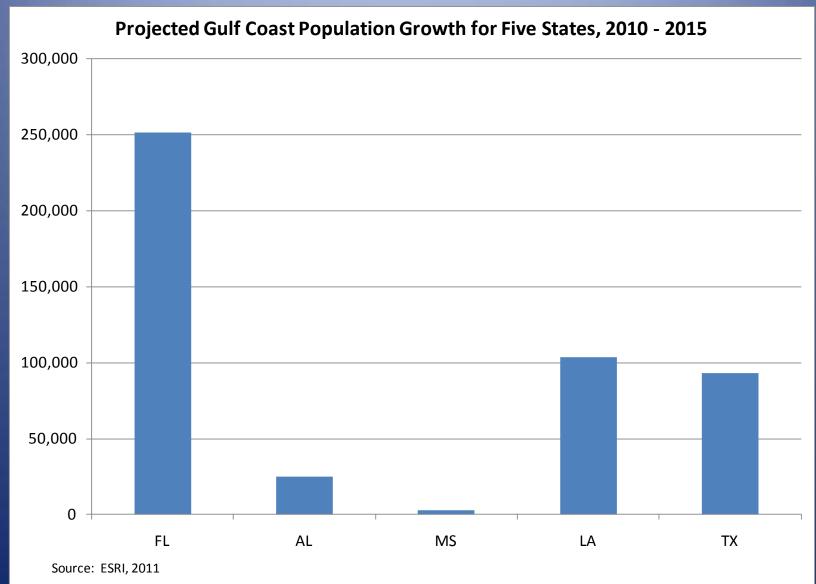
















2008 NOAA Commercial Fisheries Economics (in \$ millions)

State	Sales	Gulf %	Income	Jobs
Alabama	445	4%	245	9,750
West Florida	5,657	54%	3,108	108,695
Lousiana	2,034	19%	1,060	43,711
Mississippi	391	4%	198	8,575
Texas	2,013	19%	994	42,541
Gulf Total	10,540	100%	5,605	213,272





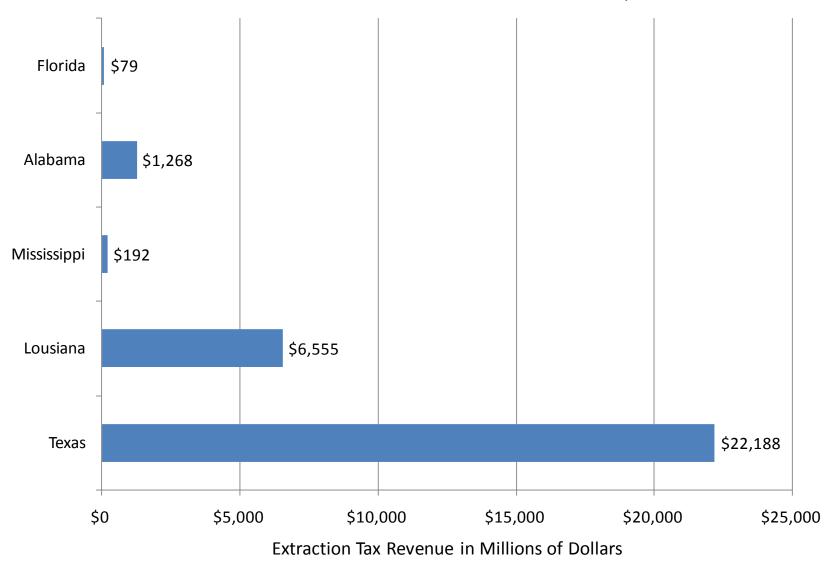
2008 NOAA Recreational Fisheries Economics (in \$ millions)

State	Sales	Gulf %	Trips (1,000s)	jobs
Alabama	445	4%	1,671	4,719
West Florida	5,640	47%	16,928	54,589
Lousiana	2,297	19%	4,541	25,590
Mississippi	383	3%	969	2,930
Texas	3,288	27%	1,337	25,544
Gulf Total	12,073	100%	25,446	113,372





Cumulative State Tax Revenue from Oil and Gas Production, FY00 - FY09







Gulf Coast Claims Facility (5/26/11)						
	Claimants	Payments (bns)				
Total	513,272	\$4,203				
FL	179,624	\$1,676				
AL	74,024	\$779				
MS	55,724	\$365				
LA	204,257	\$1,388				
TX	12,062	\$162				





Questions?

Keith Wilkins

ktwilkin@myescambia.com

850-595-4988









White Quartz Sand Beaches











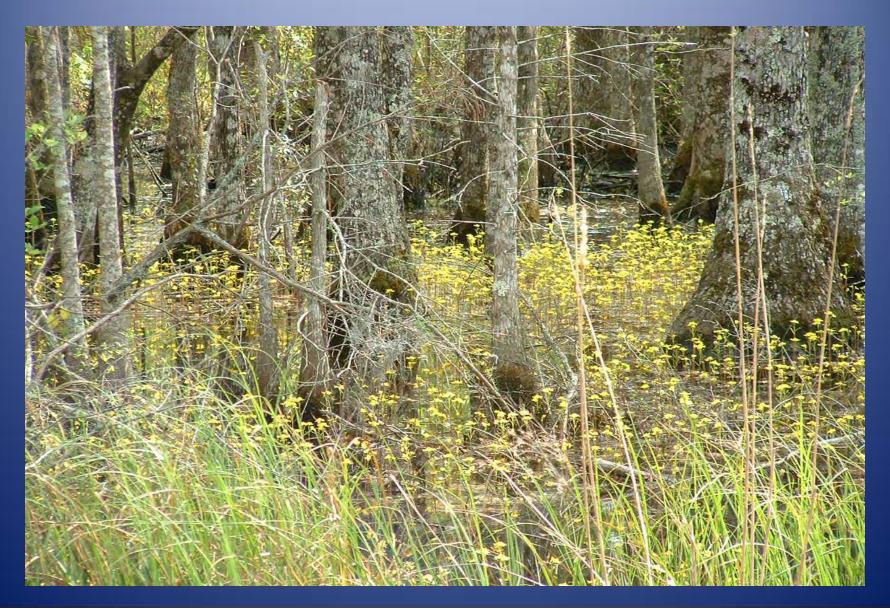








Hardwood Wetlands

















Example: Oyster Reef/Marsh/SA Conservancy Project Greenshores, Pensacola

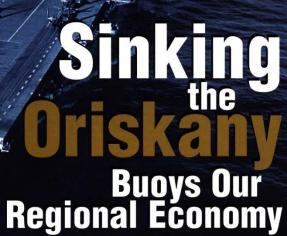


Worry 101 • Hurricane Survival Guide • Better Leadership/Horse Sense

Climate Magazine

100





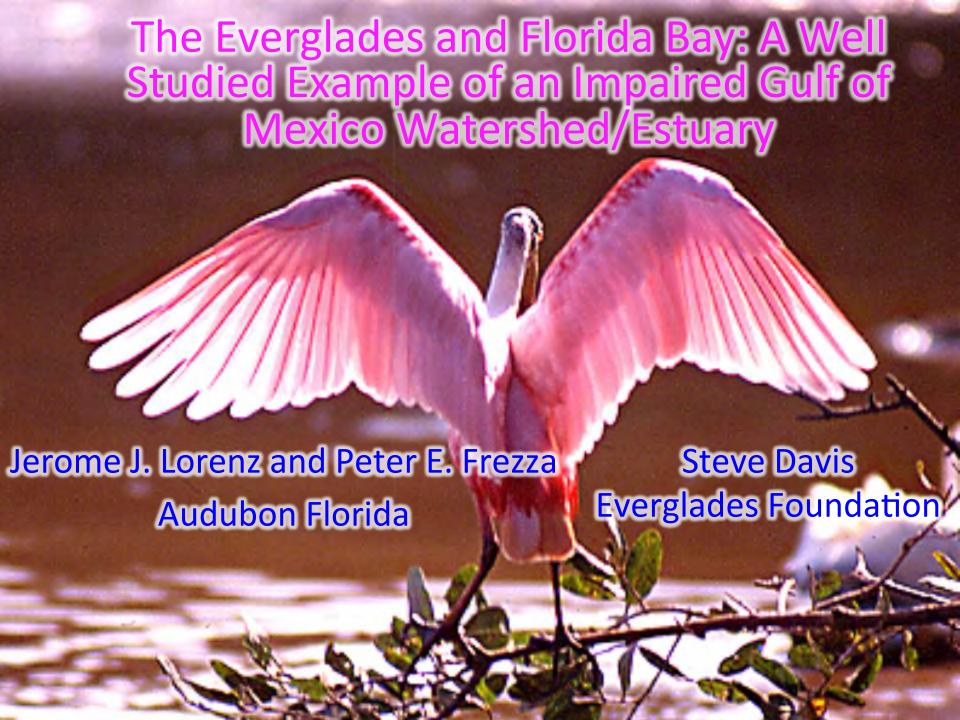
\$2.95 May/June 2004 Volume 15, Issue 3



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www.ballingerpublishing.com

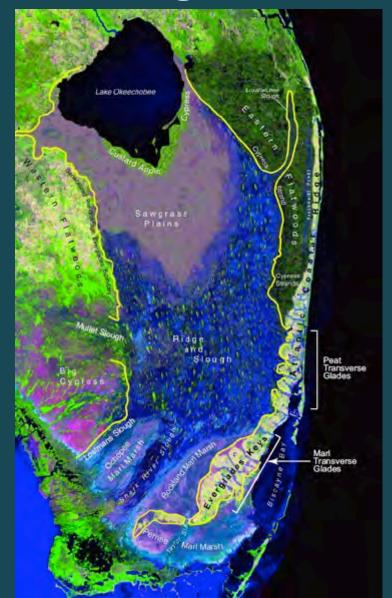
PLUS: Calendar • Around the Region • People on the Move • Chamber News • More



Florida's Gulf of Mexico Estuary are Imperiled

- All of Florida's Estuaries are Impaired
- The most common problems are related to freshwater flow
 - Some suffer from artificial excess of freshwater
 - E.g. Caloosahatchee
 - —Some suffer from lack of natural amounts of freshwater
 - E.g. Florida Bay

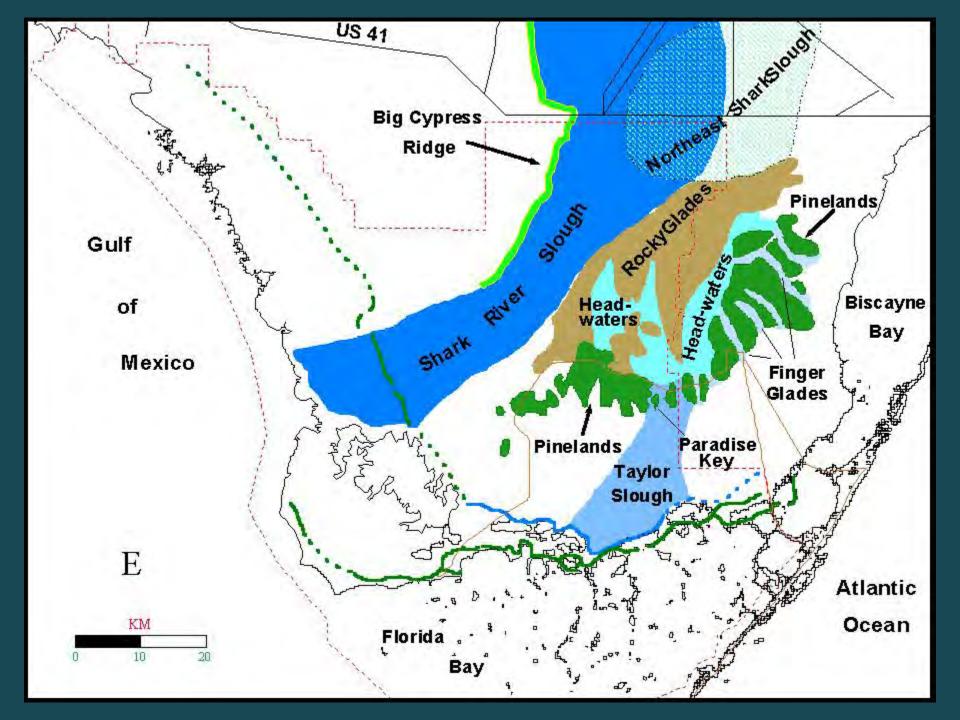
Everglades: Past and Present

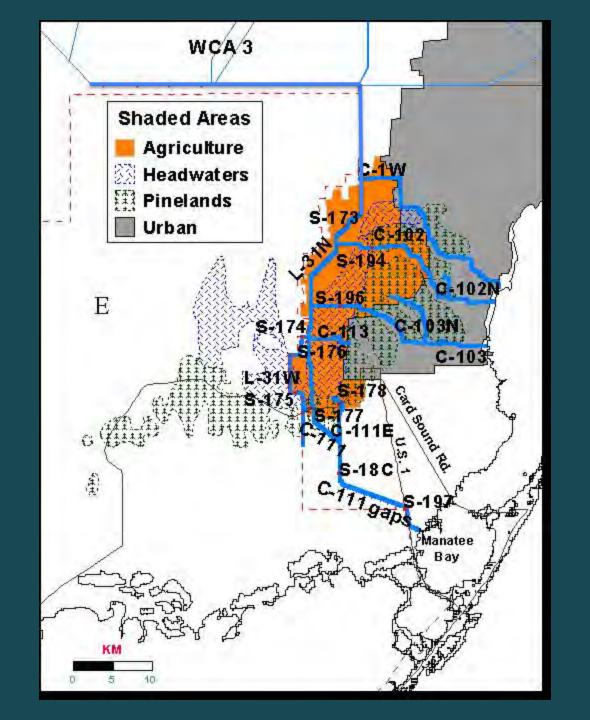




Tamiami Trail as a Barrier to Flow





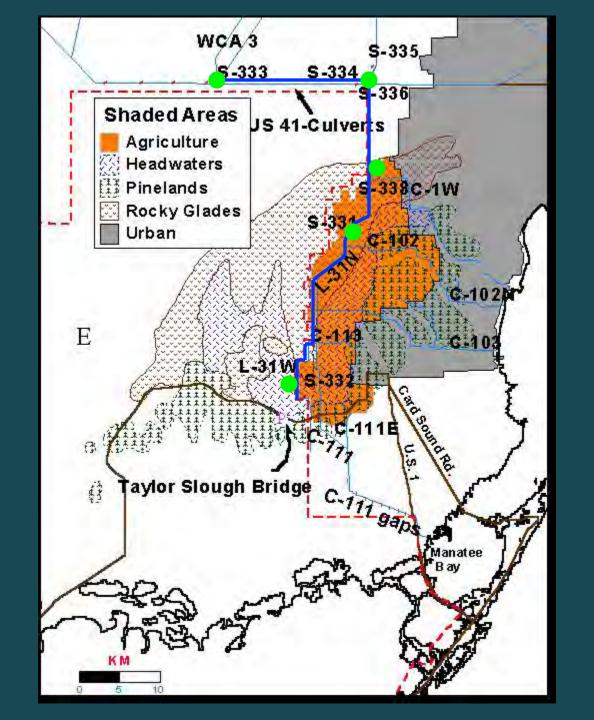


Restored Flows Improve Estuarine Conditions

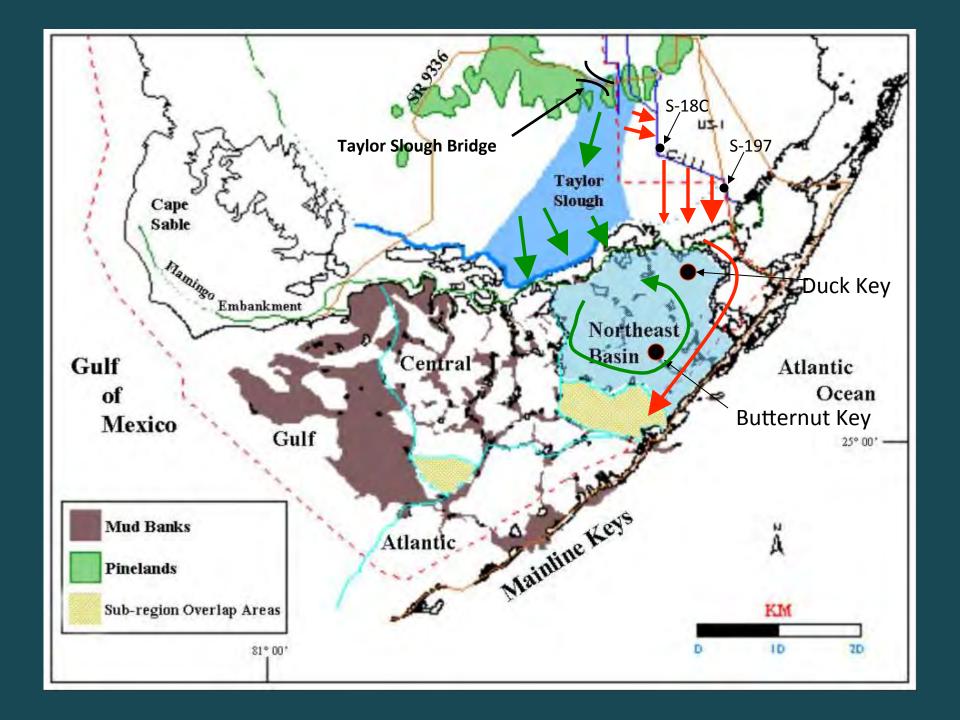


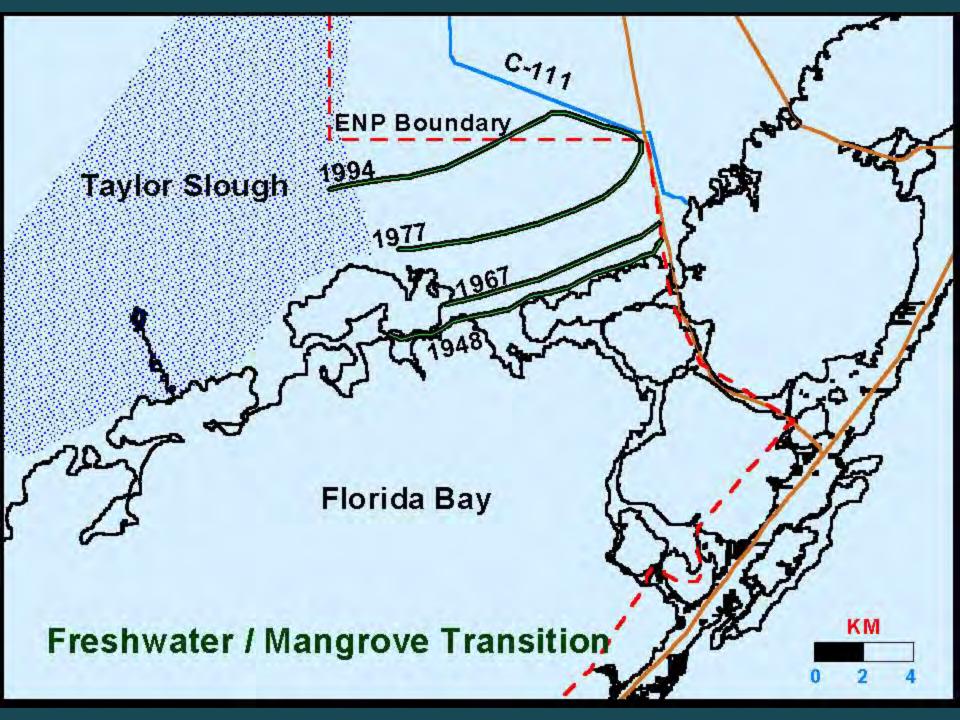
Damage to Caloosahatchee/Charlotte Harbor

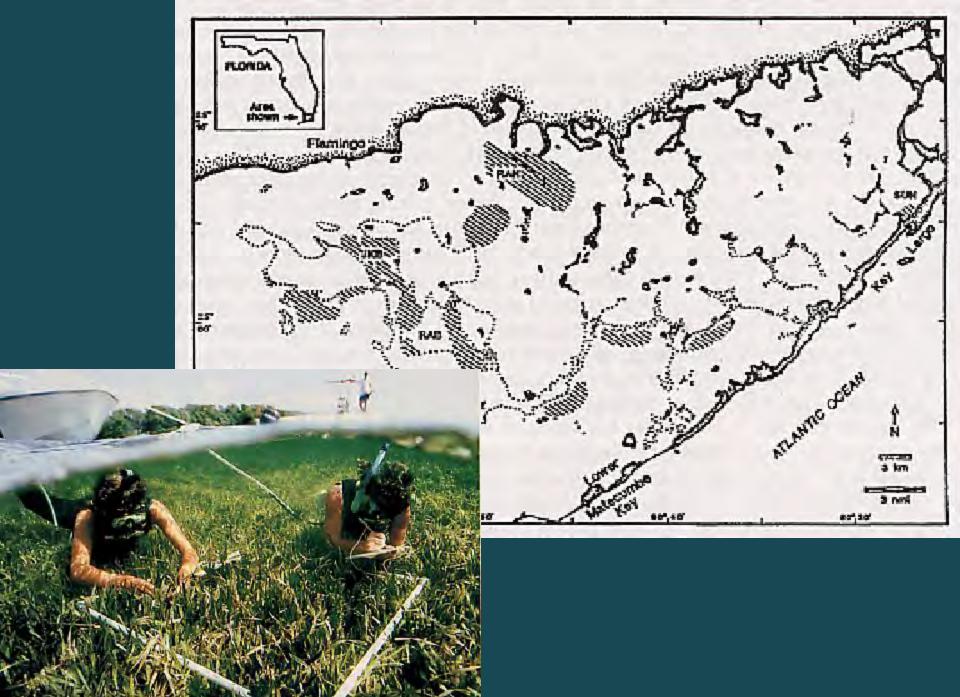
- Blackwater event
 - FKNMS
- Red tides
- Algal blooms

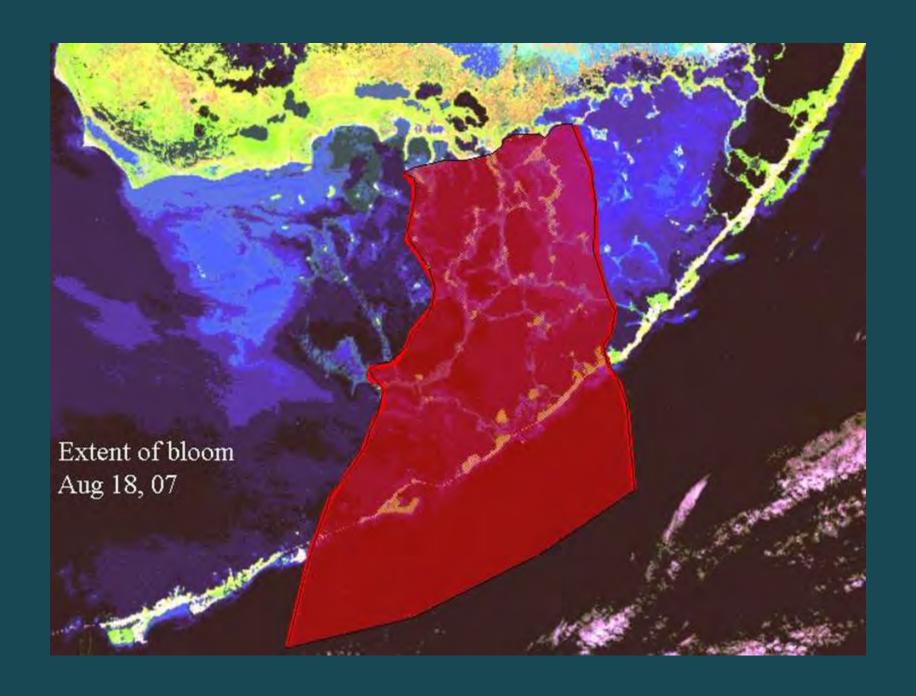












ECOLOGICAL INDICATORS

INTEGRATING, MONITORING, ASSESSMENT AND MANAGEMENT

Spoonbills are being used as an indicator species to judge the success (or failure) of the CERP.

for the CERP





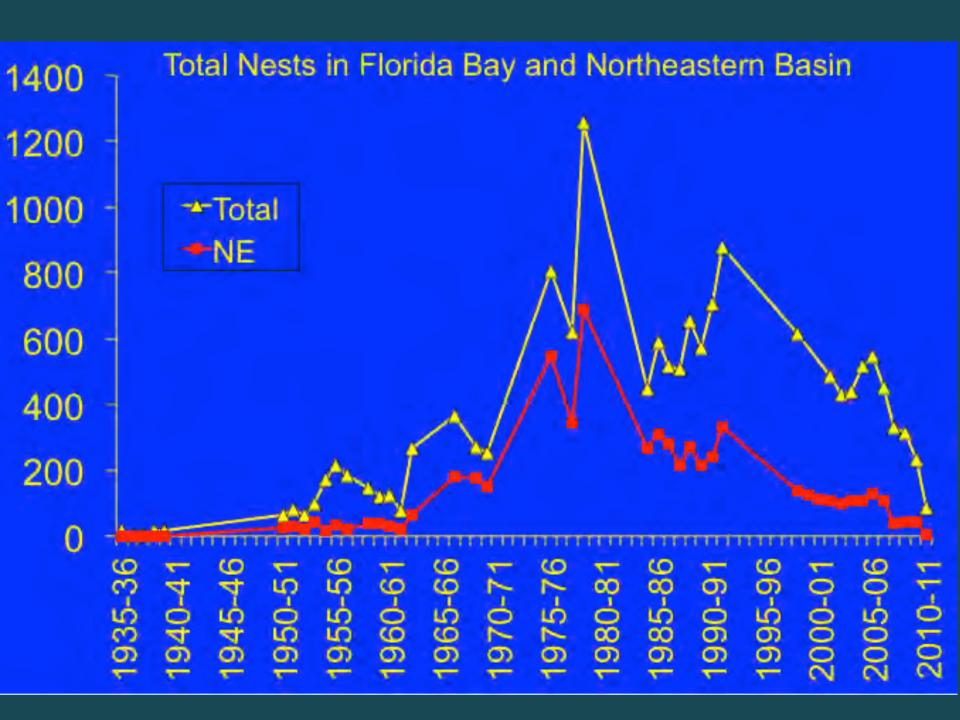
Lorenz, J.J., B. Langan-Mulrooney, P.E. Frezza, R.G.Harvey and F.J. Mazzotti. 2009. Roseate Spoonbill Reproduction as an Indicator for Restoration of the Everglades and the Everglades Estuaries. Ecological Indicators 9S:S96-S107.





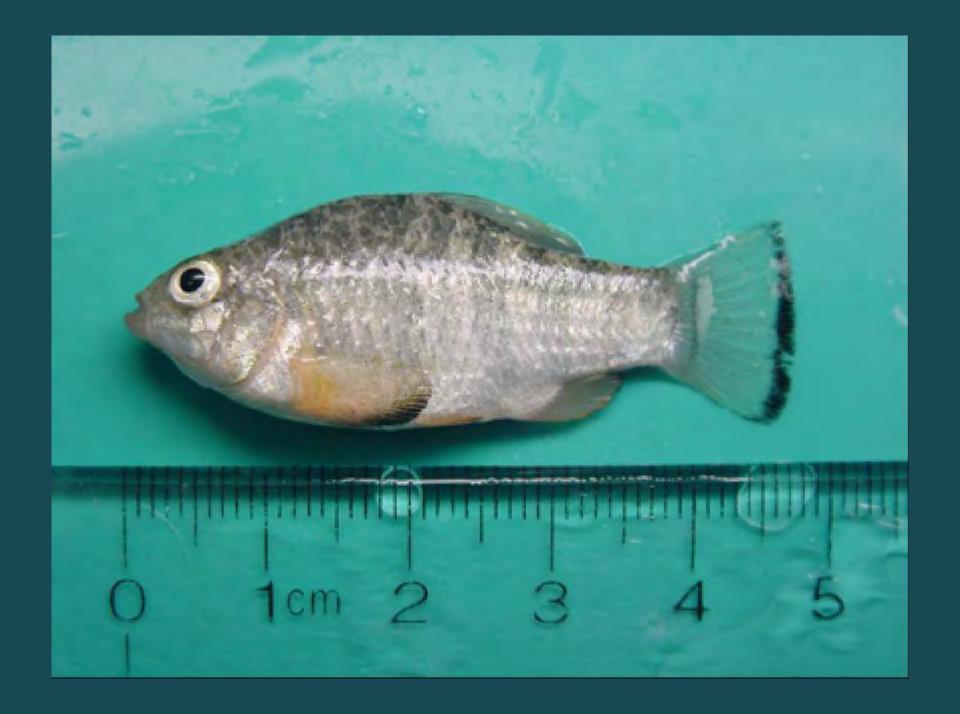


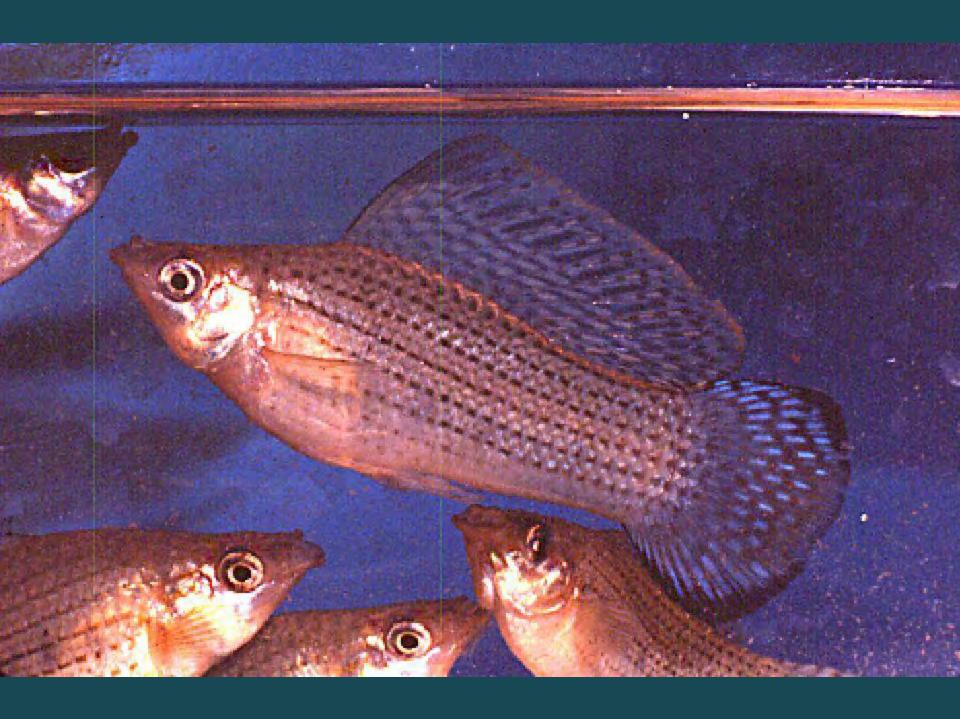


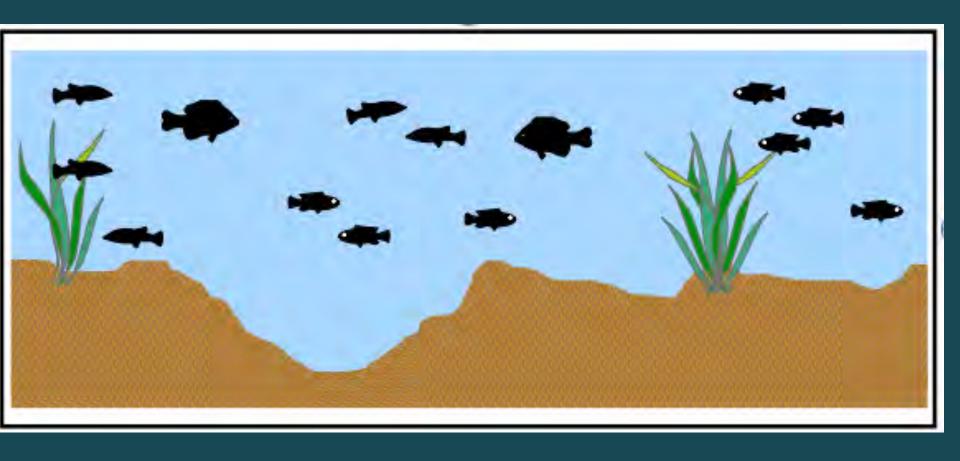


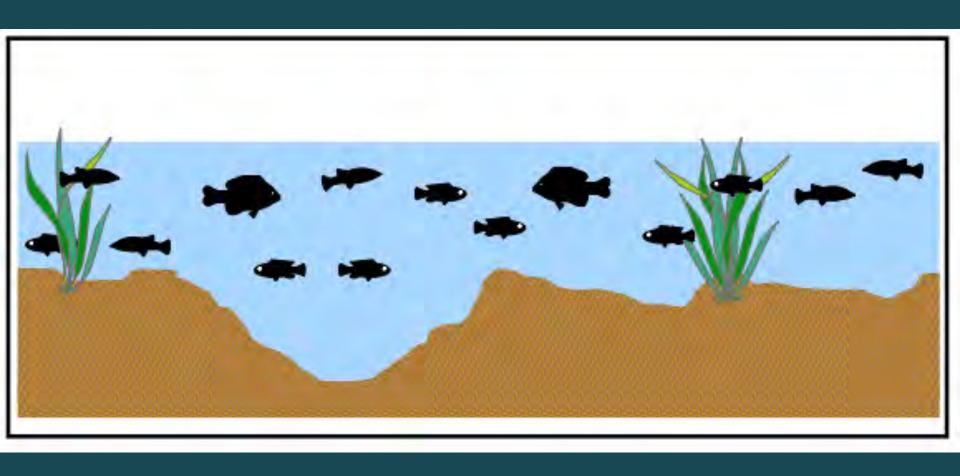


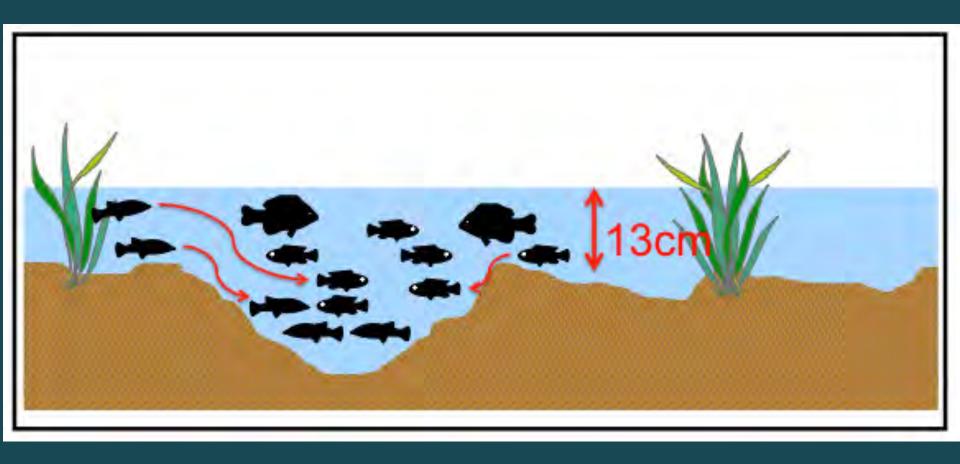












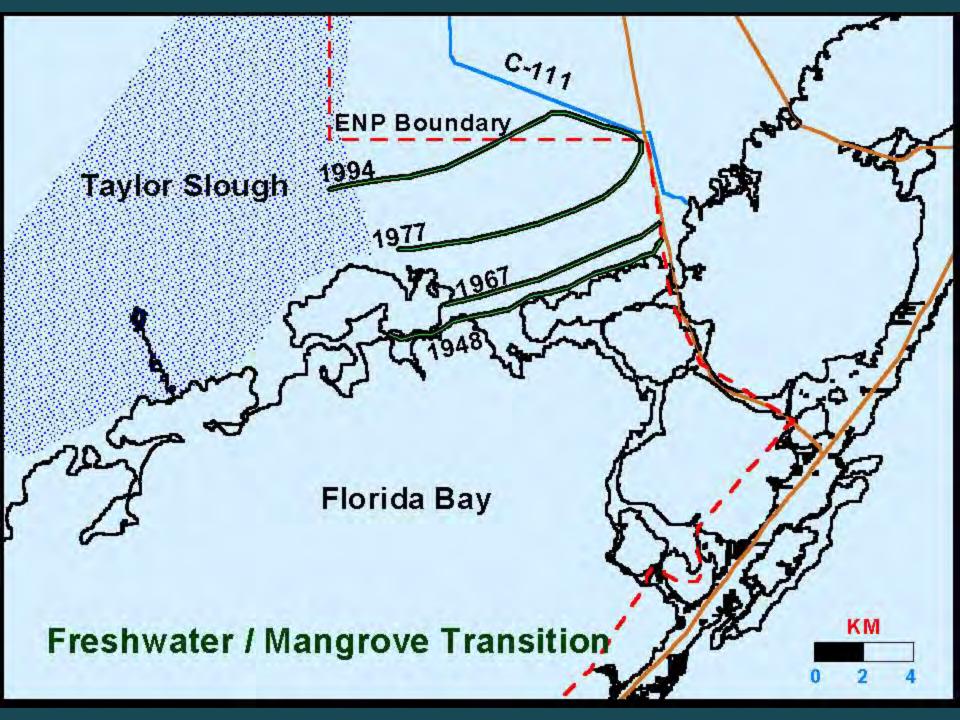


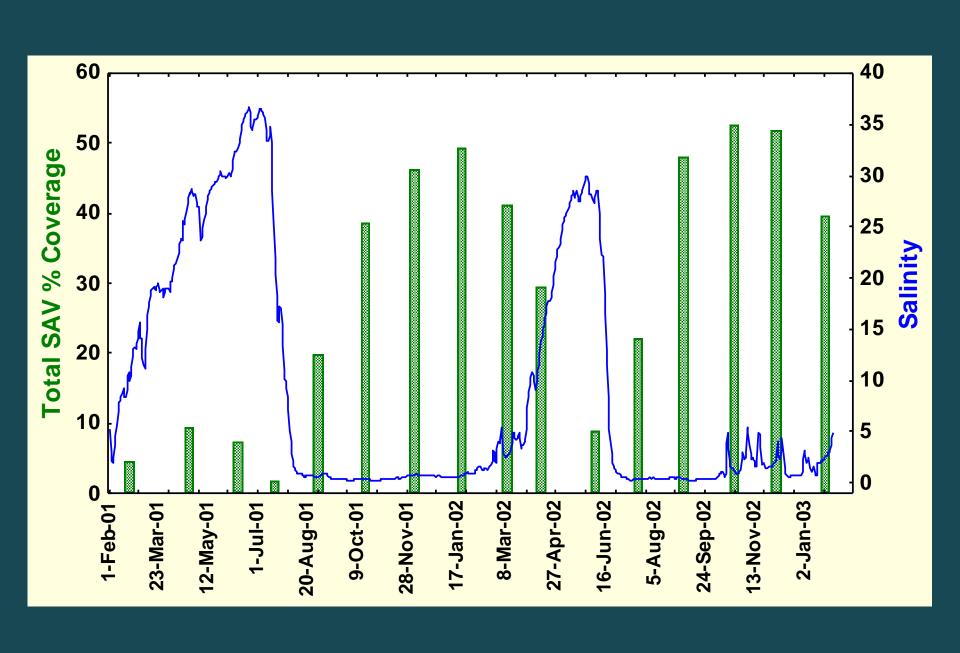


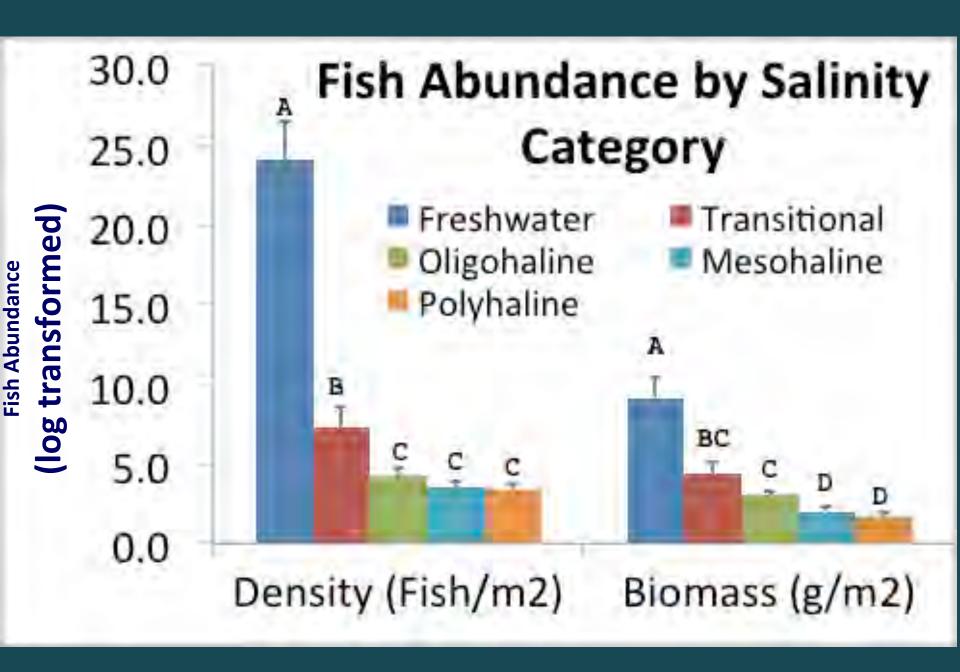


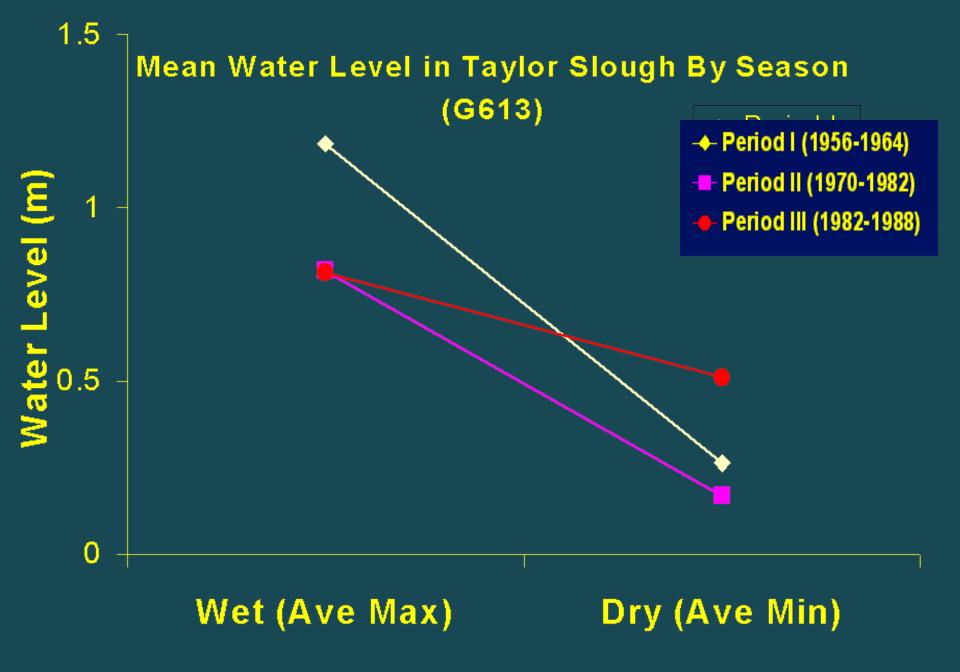


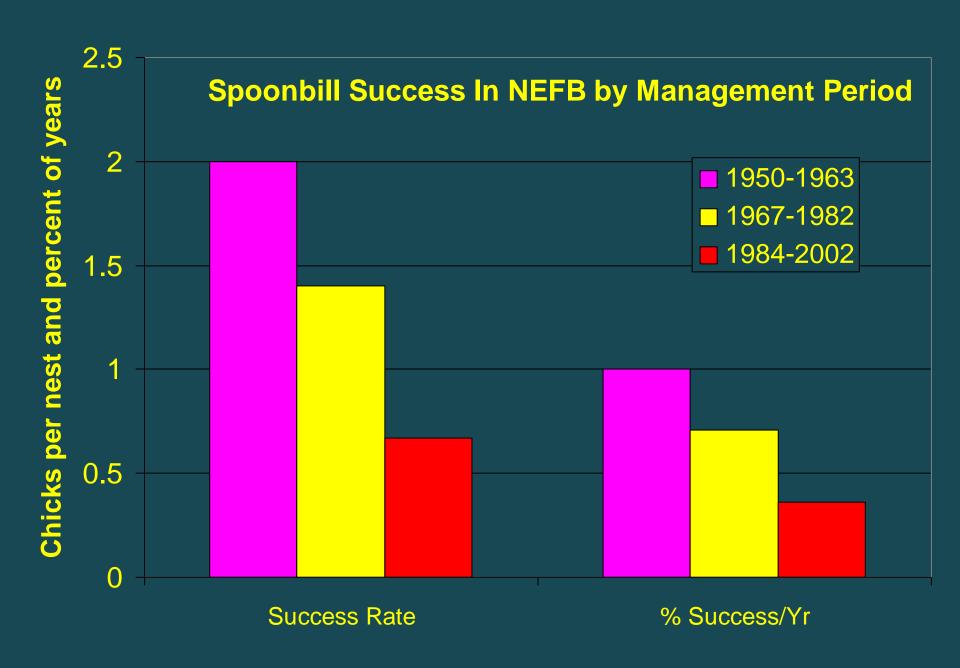


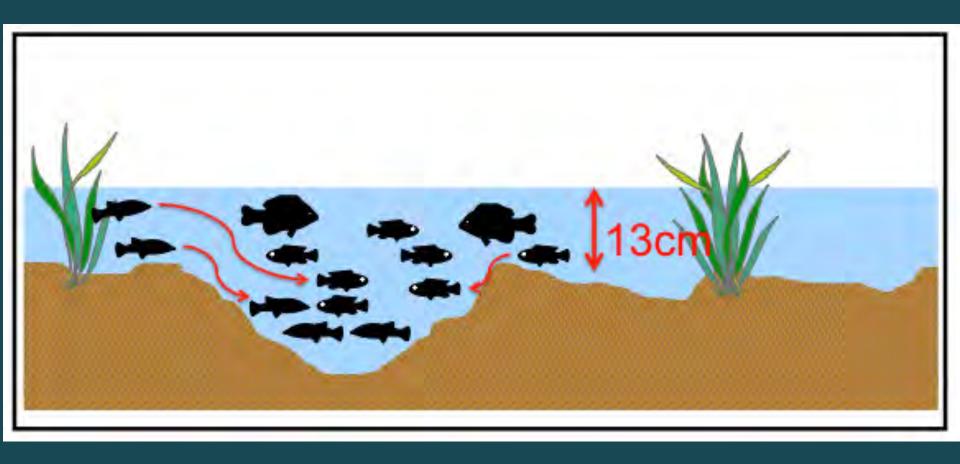


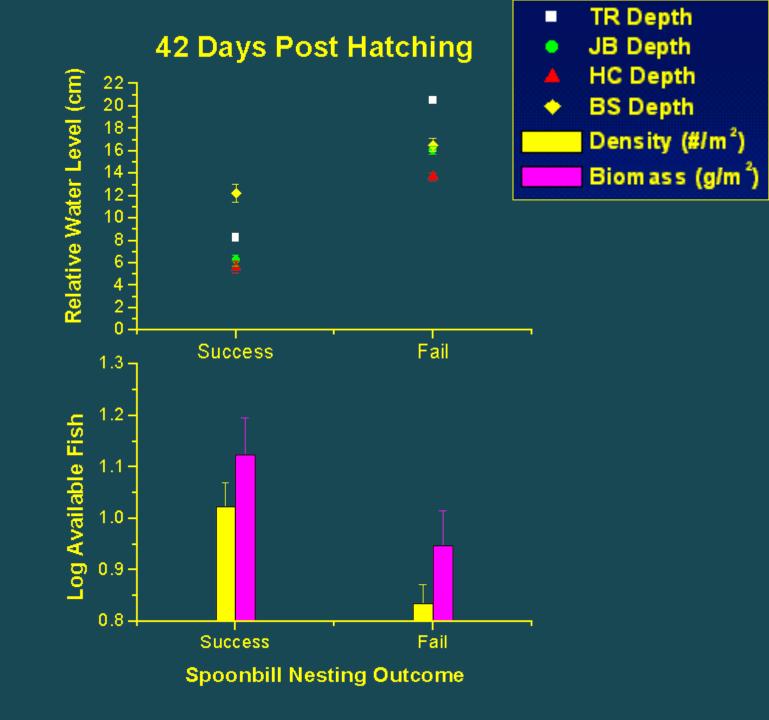


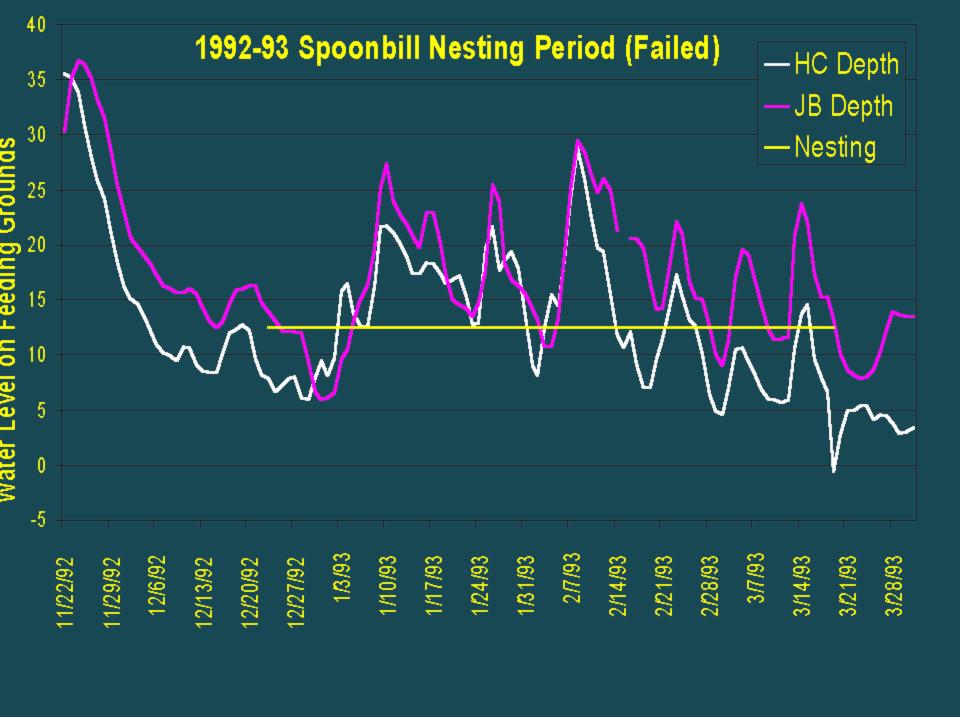
















A Review of the Effects of Altered Hydrology and Salinity on Vertebrate Fauna and Their Habitats in Northeastern Florida Bay

Jerome J. Lorenz

Species/Group	References	Type of evidence	Inferred change from historical	Documented change through time
Prey base fishes	Lorenz 1999, Lorenz 2000, Lorenz and Serafy 2006, Lorenz 2012	Inferred from field studies	Much lower productivity due to salinity stress, habitat change and reduced hydroperiod	Freshwater periods are more productive than periods with saline influence
Spotted seatrout	Rutherford et al. 1989	Inferred from field studies	Perhaps increased in number due to a more compatible higher salinity	Increased catch rates from 1972 to 1984
Red drum	Tilmont et al 1989a, Rutherford et al. 1989	Inferred from field studies	Decreased due to less freshwater runoff	
Common snook	Tilmont 1989b, Rutherford et al. 1989	Inferred from field studies	Decreased due to less freshwater runoff	Declined catch rates from 1972 to 1984
Mud bank fish community structure	Sogard et al 1989, Matheson et al. 1999	Qualitative		Changed from benthic to pelagic dominated spp from 1984-86 to 1994-96
Seagrass fish community structure	Thayer and Chester 1989, Thayer et al. 1999	Qualitative		Changed from benthic to pelagic dominated spp from 1984-85 to 1994-96
Mangrove shoreline fish productivity	Ley 1992, Montegue and Ley 1993, Ley et al. 1994	Inferred from field studies	Lowered productivity compared to historic condition	
American crocodile range	Ogden 1978, Mazzotti 1999, Mazzotti et al. 2009	Quantitative	Much more abundant and widespread historically	Nesting range shrank from all of NEFB in 1930's to just the coastal mangrove by 1999; population center in ENP shifted from NEFB to Cape Sable beginning in the early 2000's
American crocodile abundance	Ogden 1978, Mazzotti and Dunson 1984, Moler 1991, Mazzotti 1999	Quantitative, inferred from field studies	Salinity stress reduced growth rate and survival of hatchlings and juveniles resulting in population decline since 1984	Declined from up to 2000 historically to less than 400 by 1970. Modest increases in nest number since but recovery not as fast as expected under a more historic flow regime
Mangrove terrapin	Dunson and Mazzotti 1989	Inferred from experimental results	Hatchling survival reduced from historical due to salinity stress	
West Indian manatee	Beard 1938, Hartman 1974, Odell 1979, Worthy 1998	Quantitative, inferred from field studies	Less use of NEFB due to salinity stress and salinity induced habitat changes	Declined from high use in 1938 to rare in 1990's relative to overall population numbers
Bottlenose dolphin	Torres 2009	Inferred from field studies	Reduction of preferred prey (see fish) species may explain minimal use of the Northeastern Basin	
Roseate spoonbills	Lorenz 2000, Lorenz et al. 2002, Lorenz et al. 2009	Quantitative, inferred from field studies	Lower nesting success due to salinity induced declines in prey number	Decline in the number of nests from 1259 in 1979 to less than 350 currently
Great white heron	Powell and Powell 1986, Powell et al 1989	Quantitative, inferred from field studies	Lowered nest productivity due to reduced prey base	Significant decline in nesting success in the mid- 1980's compared to early 1920's
Eastern brown pelican	Kushlan and Frohring 1985, Ogden 1993	Quantitative, qualitative	Were common nesters in NEFB in 1980's but have only nested twice since 1991	Baywide nest numbers declined from 850 in 1976 to 350 in 1993.
Ospreys	Ogden 1987, Poole 1989, Ogden 1993, Bowman et al. 1989	Quantitative, inferred from field studies	Reduced nest numbers and nesting success due to low prey productivity	Baywide decline from 200 nests in the 1970's to 70 nests; disproportionately larger declines in NEFB.
Bald eagle	Curnutt 1996, Baldwin et al. 2012	Quantitative		Consistently about 30 territories baywide from 1958 to mid 1980's then declined to 50% occupancy in 2003, Territories in NEFB declined from 7 to 1 since mid-1980's.
				,







Small Fishes: Drop & Minnow Traps















Restoration benefits fish, wildlife, and recreational opportunities



...and our economy!



Economics (per year)

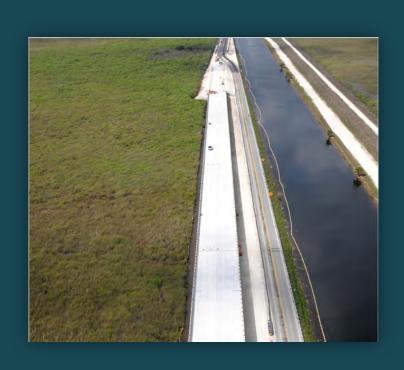
- Annual User value of water related activities: \$660M
- \$59 Million Shrimp Fishery
- \$22 million Stone Crab Fishery
- \$40 Caribbean Spiny Lobster Fishery

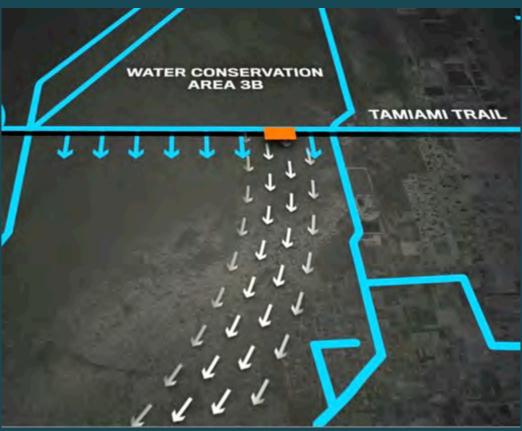


How can we solve the impairments to Flow For Gulf Coast Estuaries

- Open up impediments to natural water flow
- Block inappropriate conduits to water flow

Removing Impediments to Flow





Bridging Tamiami Trail is the Key to Restoring Flows

- More bridging increases our capacity to flow water into Everglades National Park.
- More flow into the park improves estuarine conditions around the Everglades and across the FL Keys



C-111 Eastern Phase



Restored Flows Improve Estuarine Conditions



Conclusions

- Restoring Natural Flows to Estuaries is Gulf of Mexico Restoration
- Restoring the Everglades is helping to restore the Gulf





Restorefloridasgulf.org Restorefloridabay.org

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