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The Sport-fish Research Group at HRI

Goal: Provide sound science for maintenance and rebuilding of sport-fisheries for future generations

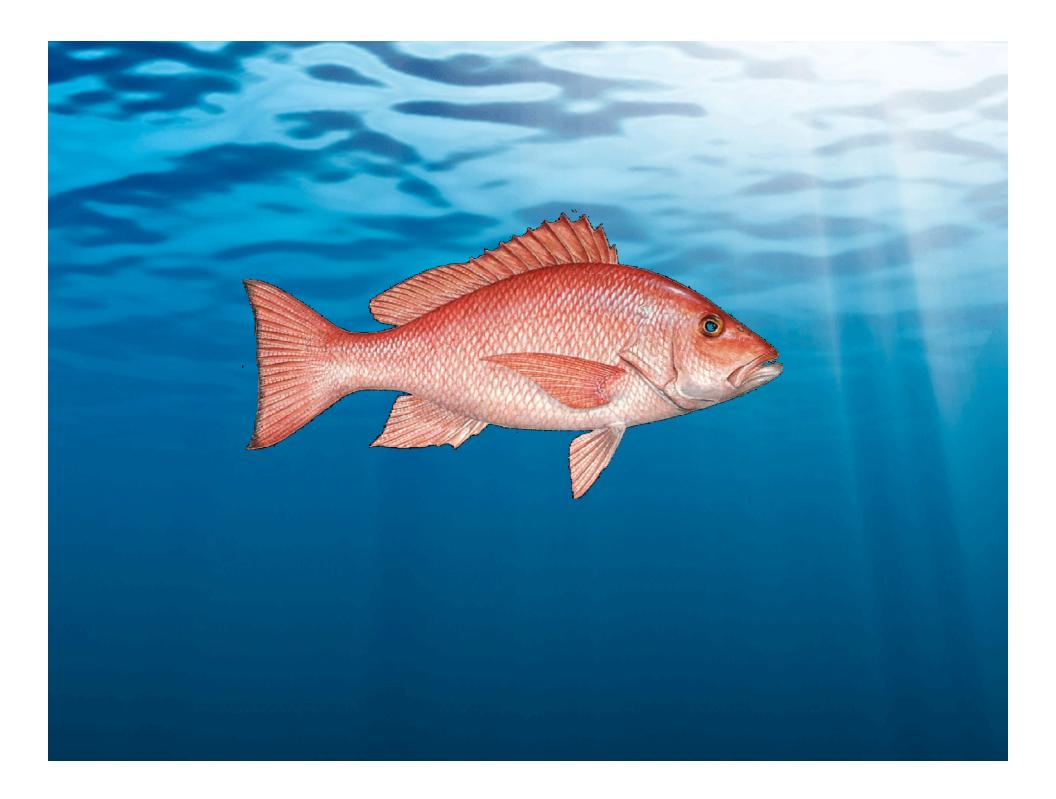












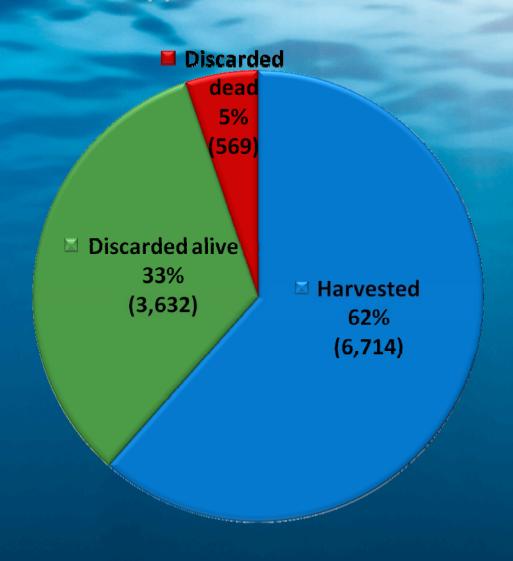
An innovative tool for collecting data in the For-Hire Fishery (aka charters)





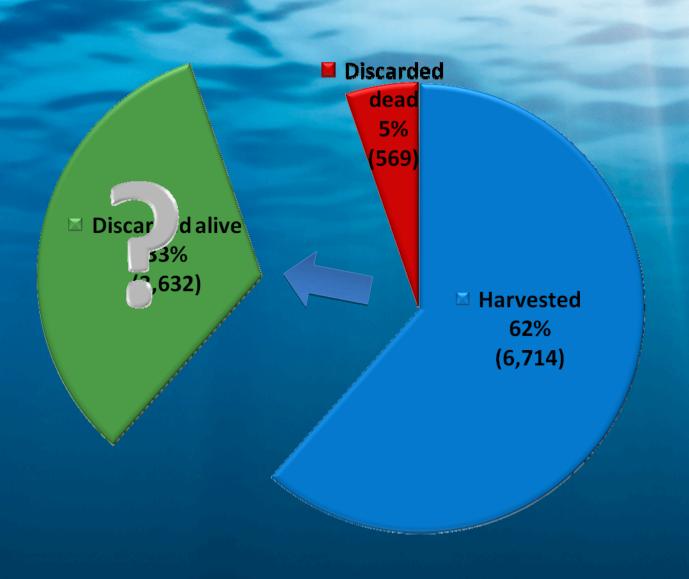
Red Snapper Recreational Catch

Source: iSnapper Pilot Data, Summer 2011



Red Snapper Recreational Catch

Source: iSnapper Pilot Data, Summer 2011



The "Discarded Alive" Slice



Reduced foraging ability



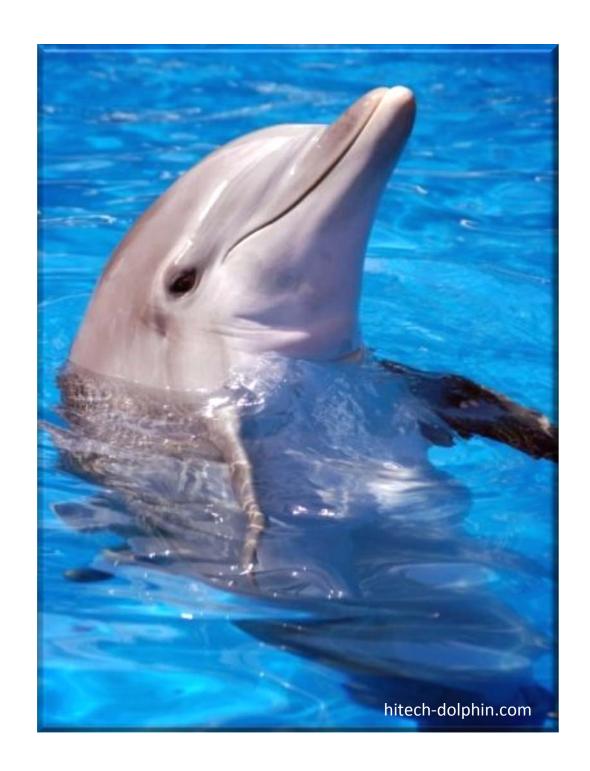
Lingering Barotrauma



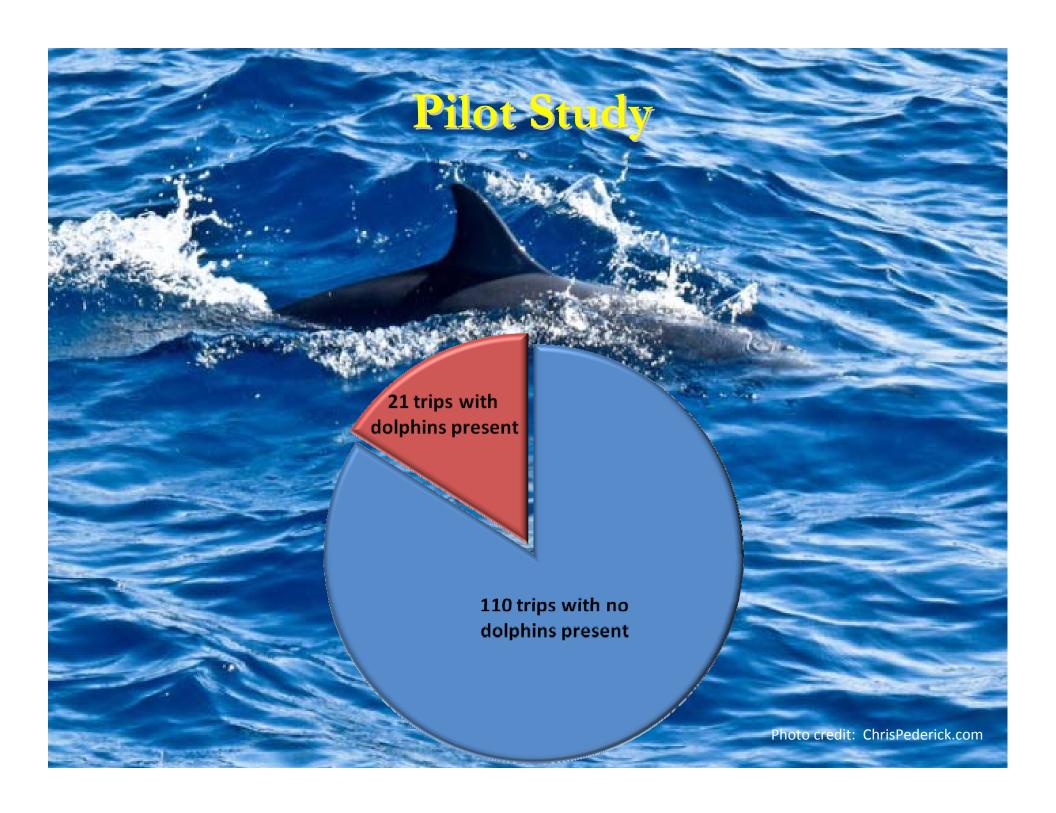
Harvested62%(6,714)

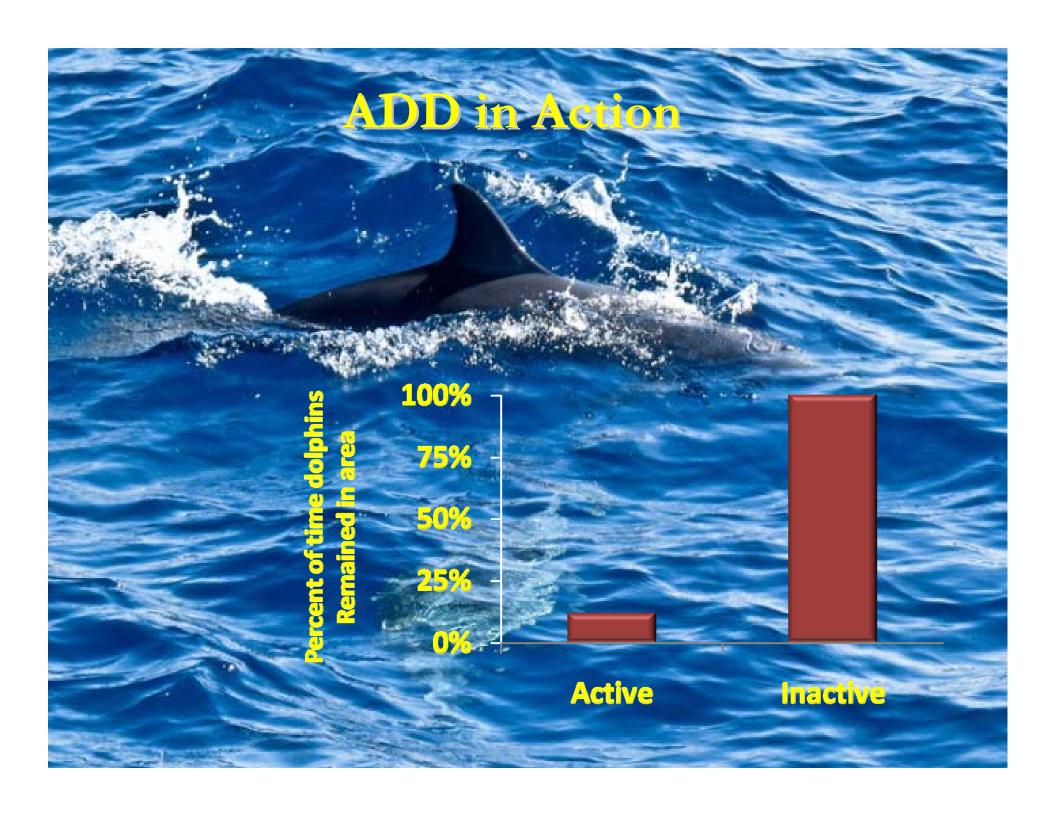


Depredation

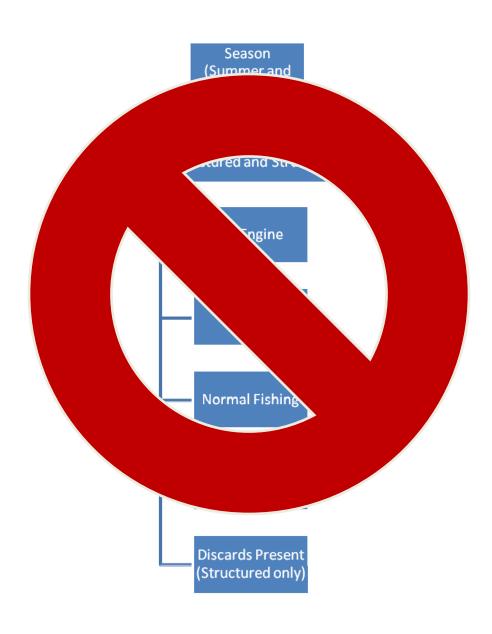


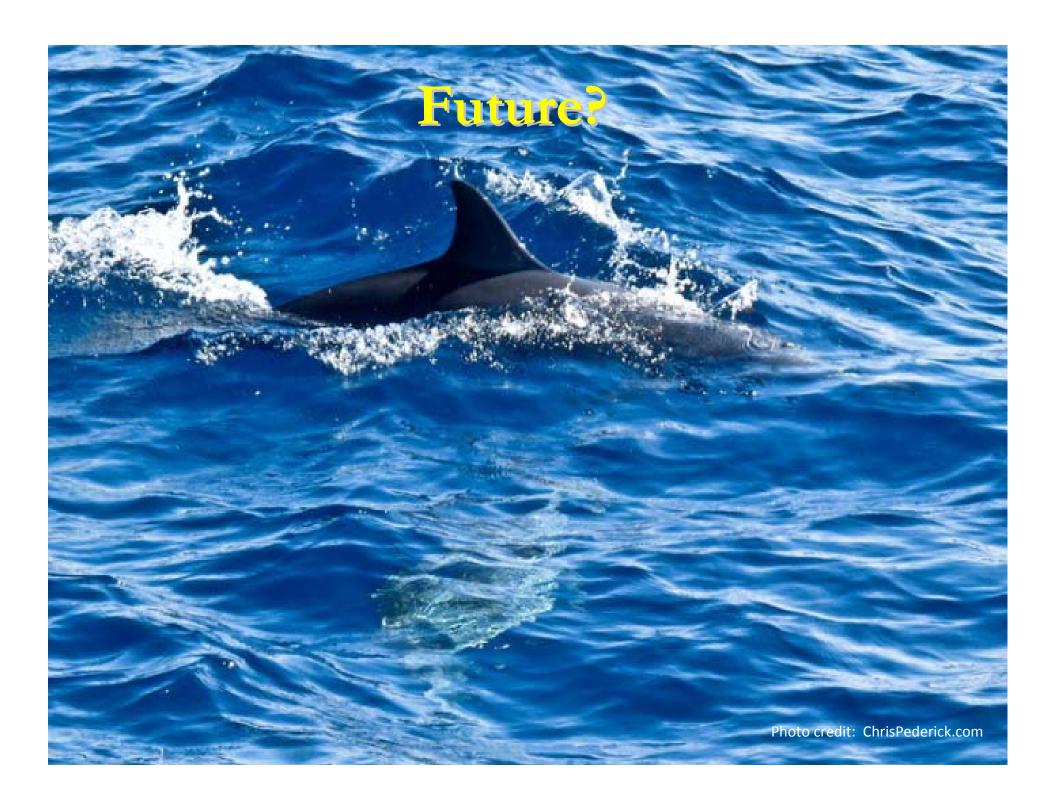






Experimental Design





Recent Barotrauma Studies



Field Conditions



Controlled Laboratory Conditions

- Vent vs non-vent
- Depth effects
- Rapid recompression

Results:



Vented





Non-Vented

Release Treatments:

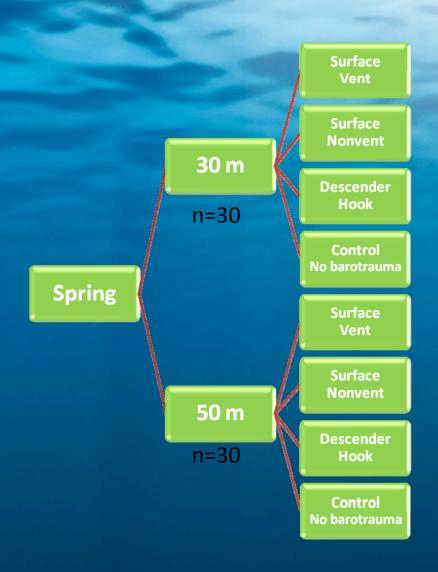






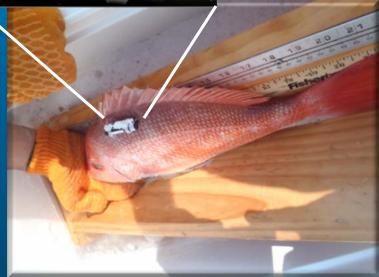


Design:

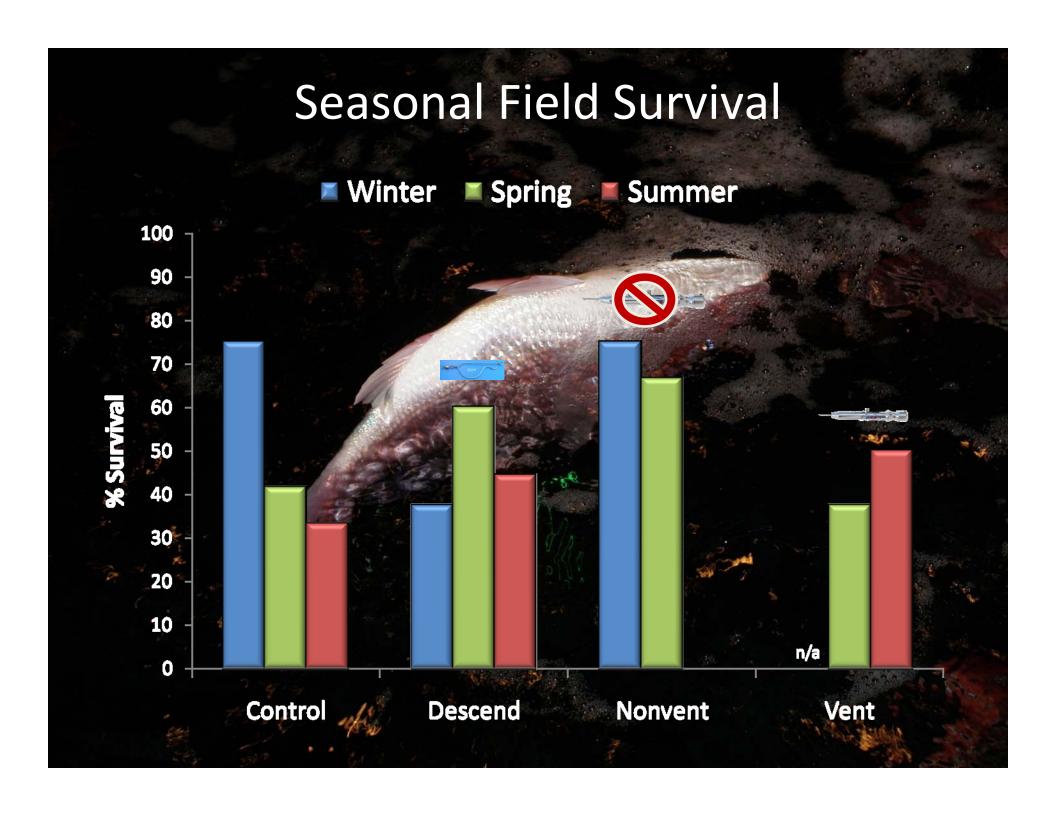


Methods:





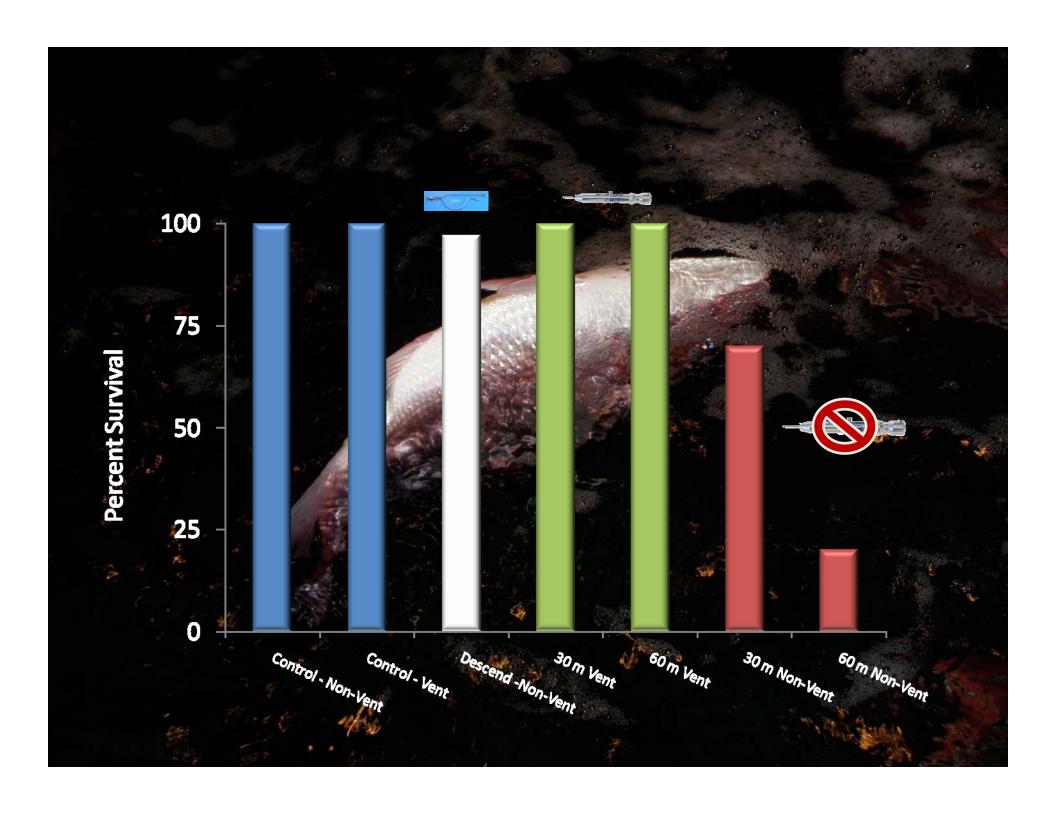




Methods:









- ADD, venting, and recompression all show promise
- A clear seasonal effect on mortality
- We would recommend venting, especially during summer
- More work to be done

Future ADD Studies

- Better characterize this "problem" in the Gulf of Mexico?
- What are the root causes of depredation events?
- How useful are ADDs as a technique to mitigate depredation by dolphins and increase discard survival?
- Fin recognition program, are the problem pods of dolphins?
- Is there a "dinner bell" effect?
- Work with marine mammalogists that can better understand behavioral responses.

Acknowledgements



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Research Scientists, Post-Docs, Graduate Students, and Student Workers:

Megan Robillard Jason Williams Jennifer Wetz

Matt Ajemian Judd Curtis Matt Johnson

Peter Young Phil Jose Alison Lund

Will McGlaun Ruben Palacios Maurico Mancera

www.fisheries.tamucc.edu

Fisheries Ecology Lab

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CURRENT PROJECTS

PEOPLE

- Ecology of sharks at Padre Island National Seashore
- Effects of hypoxia on estuarine fishes in their nursery habitats
- Stock structure assessment of spotted seatrout along the Texas coast
- Catch and release mortality of spotted seatrout
- Closure of Port Mansfield Channel: Impacts to fisheries in the Lower Laguna Madre
- Access to estuarine nursery habitat: Recruitment dynamics of nekton through tidal inlets (Packery Channel)
- Oyster reef as essential fish
- Effects of propeller scarring on seagrass-associated fauna

Shark Tags Enter Here!





Currents Graduate Students

Laura Bivins Judd Curtis

Isis Dominguez

John Froeschke

Jason Slocum

Jason Williams



Fisheries Links

LAB INTERESTS

The Fisheries Ecology Lab focuses on the marine biological sciences, particularly marine ecology. Our research is field-oriented, and we spend considerable time collecting data in the marine environment. Specifically, our research interests focus on understanding the relative value of habitat for aquatic organisms emphasizing marine and estuarine fishes. Much of this research is directed toward determining temporal and spatial distributions of fishes as well as the causes and consequences of the habitat use in terms of age, growth,



The FEL is a part of the Harte Research Institute for Gulf of Mexico Studies. Please visit the HRI our lab activities.

www.harteresearchinstitute.org



TOP STORIES

- ✓ HRI Post-doctoral Position Available
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- Tunnell Honored for Conservation Efforts
- Conserving Bays Workshop Results
- ✓ Gulf Coast Claims Report

Seminar Series



e seminar speaker for day, April 8 will be Steve armenter (read more >)

Spotted Seatrout Research



HRI researchers are tagging spotted seatrout to termine movement attems (read more »)

GULF OF MEXICO MATTERS>



STATE OF THE GULF SUMMIT



Best Conservation Film Winner



