



Marine Resources Education Program - Southeast Update

May 2014 – I&E Advisory Panel Meeting

Partners:

Gulf of Maine Research Institute

NOAA Fisheries

South Atlantic Fishery Management Council

Gulf of Mexico Fishery Management Council

Caribbean Fishery Management Council

Marine Resources Education Program (MREP)

- Gulf of Maine Research Institute
 - Administrative partner and facilitator
- Workshop-based Program
 - Originated in New England
- Designed to foster new relationships and increase knowledge and understanding of:
 - **Fisheries Science**
 - **Fisheries Management**

“A program developed by fishermen for fishermen”



MREP Goals

- To bring fishermen, scientists and managers together in a neutral setting outside the regulatory process.
- To increase the number of people at work in the region's fisheries who are comfortable working with the fishery data and management systems.
- To help policy makers and scientists become more familiar with the inner working of the fishing community.
- To increase the number of fishermen involved in collaborative research and pursuit of best available science.
- To develop leadership and promote trust.



MREP Southeast – New in 2013

- **Program Funding 2012**
 - Start up funding secured by GMRI through NMFS, NFWF
- **Steering Committee**
 - Refined program for Southeast
 - Involved in 2013 workshops
 - Will provide ongoing program direction and evaluation
- **2013 Workshops and Steering Committee Meeting**



MREP Southeast Workshops

Joint South Atlantic, Gulf and Caribbean Workshops in 2013:

- *Introduction to Fishery Science*
April 2-4, 2013
- *Introduction to Management*
September 24–26, 2013
- Additional Workshops
in 2014



MREP Southeast 2013:

Participants

- Publicized in early 2013 by GMRI via:
 - Steering Committee
 - Post card mailings to permit holders
 - Councils
- Great response!
 - 60 applications for 20 seats; increased # of seats to 32



Intro to Fishery Science Workshop

- April 2-4, 2013
- April 22-24, 2014
- **FWC – Fish and Wildlife Resources Institute**
- **Gulf, South Atlantic and Caribbean Participants:**
 - Recreational fishermen
 - Charter/for-hire
 - Commercial fishermen
 - Industry representatives
 - Media



Science Workshop Curriculum

- **Sampling and Survey Methods**
 - Fishery Dependent and Independent Data
 - Data Collection
 - Data Sources



Science Workshop Curriculum

- **Population Biology**

Rotate Stations at FWRI

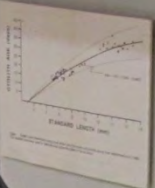
- Wet Lab
- Age and Growth
- Sampling Gear
- Research Vessel Tour



Wet Lab – Aging and Otoliths







Age and growth
estimation of s.
dates.

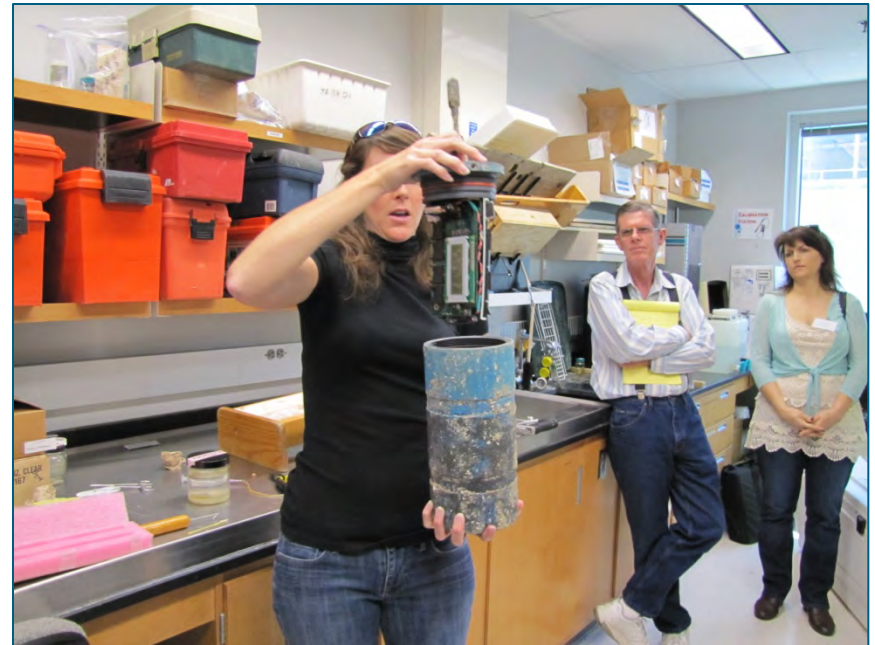
Research Vessel Tour



Wet Lab – Otolith Collection



Wet Lab – Tagging and Acoustical Monitoring



Sampling Tools – Gear and Monitoring



Chevron Traps and Video Monitoring



Back to the Classroom

- SEDAR Stock Assessment Program
- Stock Assessments and Modeling
- Cooperative Research



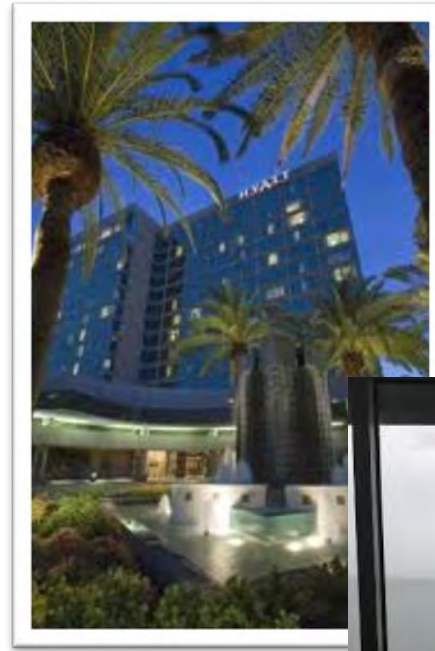
Classroom Continued

- Conservation Engineering and Gear
- Oceanography and Climate Drivers
- Ecosystem-Based Management



Management Workshop

- September 24-26, 2013
- Sept/Oct 2014
- Tampa Grand Hyatt Hotel
- Gulf, South Atlantic and Caribbean Participants:
 - Recreational fishermen
 - Charter/for-hire
 - Commercial fishermen
 - Industry representatives
 - Media



Management Agenda Highlights

- Council Process
- Role of Science and Management
- How to Get Involved
- Legal Framework
- Enforcement



Management Agenda Highlights

- Role of Congress and Judiciary in Management
- Sustainable Fisheries, Visioning and Current Issues
- Mock Council Meeting



Mock Council Meeting



MREP Steering Committee Meeting

- November 12–13, 2013
Charleston, SC
- Agenda
 - Program achievements
 - Curriculum and presentations
 - Evaluations
 - Recommendations



Evaluations

- Evaluations were distributed at the end of the workshops
- Positive Evaluations!
 - Instructors ranked highly
 - Majority found workshop “Valuable or Very Valuable”

Marine Resource Education Program
St. Petersburg, Florida
April 2 – 4, 2013

Evaluation Questionnaire

Please take a few moments to provide feedback on the Science Workshop. Your comments and suggestions are greatly appreciated and will help to ensure that we can continue to improve and evolve the program.

1. Please rate how valuable the following portions of the program were in enhancing your overall understanding and knowledge of fisheries science, based on a scale of 1 to 5 (1 = not valuable, 5 = very valuable). Circle your answer for both the content, and the presenter's ability to communicate the content.

	Part 1: Content Rating	Part 2: Presenter Rating
DAY 1 - Tuesday		
Sampling and Survey Overview (Lutz Barbieri)	1 2 3 4 5	1 2 3 4 5
Fishery Dependent Data Collection (Gordon Colvin)	1 2 3 4 5	1 2 3 4 5
Population Biology Introduction (John Carmichael)	1 2 3 4 5	1 2 3 4 5
FWRI Labs/Stations 1. Reproductive Biology Lab	1 2 3 4 5	1 2 3 4 5
FWRI Labs/Stations 2. Age & Growth Lab	1 2 3 4 5	1 2 3 4 5
FWRI Labs/Stations 3. Sampling gear	1 2 3 4 5	1 2 3 4 5
FWRI Labs/Stations 4. Research vessel Tour	1 2 3 4 5	1 2 3 4 5
DAY 2 - Wednesday		
Stock Assessment Overview - SEDAR (John Carmichael)	1 2 3 4 5	1 2 3 4 5
Stock Assessment Modeling (Clay Porch)	1 2 3 4 5	1 2 3 4 5
Bycatch Reduction Technology (John Mitchell)	1 2 3 4 5	1 2 3 4 5
Conservation Engineering & Gear (Steve Therberge)	1 2 3 4 5	1 2 3 4 5
Cooperative Research (Frank Helles)	1 2 3 4 5	1 2 3 4 5
DAY 3 - Thursday		
Oceanography Overview (Mandy Karnauskas)	1 2 3 4 5	1 2 3 4 5
Ecosystem Based Management (Steve Murawski)	1 2 3 4 5	1 2 3 4 5



MREP Southeast 2014

- **Science Workshop**
April 22-24, 2014
St. Petersburg, FL
- **Management Workshop**
Sept 30 – Oct 2, 2014
Tampa, FL
- **Steering Committee Follow up**
- **Continued Funding**



"This program gave me a new respect for the science and management process."

"Education is the key. There are so many rumors in the fishing world."

"When you know what's going on, you can make better decisions for the future."



A unique educational experience, designed for fishermen, by fishermen

Fishermen who want to learn more about the federal fishery science and management processes used in the Gulf of Mexico, South Atlantic, and Caribbean fishery regions, are encouraged to sign up to attend the Marine Resource Education Program workshops, now being offered specifically for the Southeast fisheries region.

This is a great opportunity for fishermen, scientists and managers to learn from each other. Program participants have a chance to network, and build their own understanding of federal fishery science and management through a tailored educational experience. Workshop dates and locations are shown here on right.

An application is required, and can be found online:
www.gmri.org/mrepsoutheast
Or, scan the QR code with your smartphone.



Applications will be reviewed in early March 2014. Selected fishermen will be notified by phone and mail. Meals and accommodations are provided during the workshops, and travel support is also available to qualifying active fishermen.

For questions about the program please call Alexa Dayton at (207) 228-1645, or workshop moderators: Bob Gill, Commercial Fisherman, (332) 795-3842, Duane Harris, Recreational Fisherman, (912) 638-9430.

Fishery Science Workshop
April 22 - 24, 2014
Hilton Bayfront & Florida Fish and Wildlife Conservation Commission
St. Petersburg, Florida

Fishery Management Workshop
September 30 - October 2, 2014
Grand Hyatt Hotel
Tampa, Florida



Gulf of Maine Research Institute
Science. Education. Community.





Questions?

Additional Program Information

www.gmri.org



South Atlantic Fishery Management Council