

# SEDAR

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# SEDAR ORIGIN

- 2002 – SA Red Porgy Assessment
- SEFSC – SAFMC
- Increased Participation
- Open & Transparent
- Scientific Rigor
- Independent Review

# SEDAR OVERVIEW

- GOAL
- OBJECTIVES
- ADMINISTRATION
- PARTICIPANTS
- WORKSHOP APPROACH
- RESEARCH and MONITORING
- CONCLUSIONS

# SEDAR GOAL

Improve the quality,  
reliability, and relevance of  
stock assessments

# SEDAR OBJECTIVES

- Broaden assessment participation
- Provide an open and transparent process
- Reduce data errors and omissions
- Reduce individual decision-making
- Increase data and model availability
- Ensure consistent products
- Ensure required products are provided
- Improve planning and coordination

# SEDAR ADMINISTRATION

## ➤ Oversight - Steering Committee

Council Executive Directors (SAFMC, GMFMC, CFMC)

Council Chairs

Commission Executive Directors (ASMFC, GSMFC)

SERO Regional Administrator

SEFSC Director

# SEDAR ADMINISTRATION

## ➤ Process and Procedures

- Council Process

  - Open public meetings, recorded, announced in Fed. Register; AR maintained; Council SOP's apply; Council AP procedures followed.

- Steering Committee Approves Guidelines

- Councils Adopt Guidelines

- Guidelines Evolve to Address Issues

# SEDAR ADMINISTRATION

- **Administrative Support**
  - SAFMC – Budget Administration & AA
  - GMFMC - AA
- **Coordination and Technical Support**
  - SEDAR Coordinator (SAFMC)

# SEDAR ADMINISTRATION

## ➤ Assessment Prioritization

- Established by the Steering Committee
- Goal is 3 year planning horizon

## ➤ Assessment Workload

- 2 SEDAR cycles per year (6 mos. Each)
- 1-2 species assessed per cycle (multiple species from single FMP)
- 2-4 Update assessments per year  
Generated by agencies (Federal/State)  
Reviewed by Council SSC

# SEDAR PARTICIPANTS

- Federal – SERO, Science Centers
- State – Marine Fisheries Agencies
- University - Researchers
- Council/Commission – Staff, Advisors
- NGO – EDF, CCA, Trade Assoc's
- Public – Consultants, Interested Parties
- International – CIE

# Panel Appointments

- Workshop panelists appointed by:
  - SEFSC Director : SEFSC Staff, NMFS Staff, Scientists
  - SERO Regional Administrator: SERO Staff
  - Councils: SSC, AP, NGO etc.

# Council Appointments

- Councils appointed participants must be on a Council's 'SEDAR Advisory Panel'
- Councils make any desired appointments to their SEDAR Advisory Panel
- Councils send invitation to appointed participants and notify SEDAR Coordinator
- Travel expense through SEFSC SEDAR grant to SAFMC

# SEDAR WORKSHOPS

1. Data Workshop
2. Assessment Workshop
3. Review Workshop

# WORKSHOP Conduct

- Discuss only Science
- Panels reach CONSENSUS
- Working meetings
  - Long days and all participate
- Drafts prepared by workshop end
- No management recommendations

# SEDAR WORKSHOPS

1. Data Workshop

2. Assessment Workshop

3. Review Workshop

# DATA WORKSHOP

- **Greatest and Broadest Participation**
  - Biological and Life History Researchers
  - Data Collectors and Managers
  - Survey and Monitoring Biologists
  - Fisherman and Stakeholders
  - Economists and Social Scientists
  - Managers
  - Population Analysts

# DATA WORKSHOP

- Greatest and Broadest Participation
- Team Approach
  - Life History
  - Commercial Data
  - Recreational Data
  - Surveys

# DATA WORKSHOP

- Greatest and Broadest Participation
- Team Approach
- Decisions Made by Entire Group

# DATA WORKSHOP

- Greatest and Broadest Participation
- Team Approach
- Decisions Made by Entire Group
- **Thorough Documentation**
  - Working Papers detail data and analyses
  - Prepare introductory and descriptive report sections

# DATA WORKSHOP

- Greatest and Broadest Participation
- Team Approach
- Decisions Made by Entire Group
- Thorough Documentation
- **Products**
  - Ready-to-use datasets
  - Data Workshop Report – Data Documentation
  - Advice on Population Modeling Methods

# SEDAR WORKSHOPS

1. Data Workshop

2. Assessment Workshop

3. Review Workshop

# ASSESSMENT WORKSHOP

- Broad, although Fewer, Participants
  - Primarily Assessment Scientists
  - Biologists, NGO's, Constituents, Managers

# ASSESSMENT WORKSHOP

- Broad, although Fewer, Participants
- Number Crunching Time
  - Develop Models
  - Prepare Base and Alternate Configurations
  - Estimate Management Parameters
  - Evaluate Uncertainty
  - Interpret Results in 'layman' and Biological Terms

# ASSESSMENT WORKSHOP

- Broad, although Fewer, Participants
- Number Crunching Time
- **Products**
  - Working Papers – Document analyses, methods
  - Assessment Workshop Report
    - Methods, Configurations, Results
    - Compare and Contrast Methods
    - SFA parameters and ABC

# SEDAR WORKSHOPS

1. Data Workshop

2. Assessment Workshop

3. Review Workshop

# REVIEW WORKSHOP

## ➤ Review Panel

- Assessment Scientists (independent of other workshops)
- Constituents – typically AP members
- NGO Representatives
- Independent Scientists (i.e. CIE)
- Biologists

# REVIEW WORKSHOP

## ➤ Review Panel

## ➤ Charge

- Evaluate the Adequacy and Appropriateness of
  - Input Data
  - Modeling Techniques
  - Model Assumptions
  - Parameter Values
- Recommend most appropriate results
- Research Recommendations

# REVIEW WORKSHOP

- Review Panel
- Charge
- **Products**
  - Consensus Summary
    - Evaluation of the Assessment Overall
  - Advisory Report
    - Summary of stock status, future conditions, and reference points

# RESEARCH RECOMMENDATIONS

- Research and Monitoring  
Recommendations expected of each workshop
- Compiled in single document  
provided to Councils
- Reports to Steering Committee

# Research & Monitoring Progress

- RFP's (MARFIN, CRP etc) influenced by assessment schedule
- Caribbean data entry project
- Monitoring evaluation underway
  - Lengths, ages, catches
  - GOAL: ID critical needs, set realistic targets, increase fed-state cooperation

# Research & Monitoring Progress

## ➤ Consistency in Needs

- Reliable catch statistics
- Reliable effort measures
- Adequate biological sampling
- Basic life history research
- Independent measures of abundance

# SEDAR and ECOSYSTEM MANAGEMENT

- Ecosystem or multi-species management requires assessments
- Multi-species models based on strong single species assessments & data
- SEDAR reaches beyond 'typical' "number crunchers"
- Focus on data and monitoring needs critical for ecosystem management
- Adaptable to future Council needs

# Conclusions

SEDAR strives to shift responsibility for input data manipulation, model selection, and parameter assumptions from a small group of assessment scientists and biologists to a broad group of participants from many disciplines.

# Conclusions

SEDAR is designed to increase participation in assessments and advice development to improve manager's confidence and constituent's support.

# Conclusions

SEDAR strives for a robust, thorough, and unbiased independent peer review of assessment data, methods, and results.

# Conclusions

SEDAR provides a structured and adaptive assessment approach that can continually change to meet Council needs.