

SEDAR

SouthEast Data, Assessment, and Review

Gulf of Mexico Red Snapper
Data Workshop

April 19 – 23 2004, New Orleans LA

Terms of Reference

1. Evaluate stock structure and develop a unit stock definition.
2. Evaluate the quality and reliability of life-history information (Age, growth, natural mortality, reproductive characteristics); develop models to describe growth, maturation, and fecundity by age, sex, or length as appropriate.
3. Evaluate the quality and reliability of fishery-independent measures of abundance; develop indices of population abundance by appropriate strata (e.g., age, size, and fishery) for use in assessment modeling.
4. Evaluate the quality and reliability of fishery-dependent measures of abundance; develop indices of population abundance by appropriate strata for use in assessment modeling.
5. Evaluate the quality and reliability of commercial and recreational fishery-dependent data for determining harvest and discard by species; develop estimates of total annual catch including both landings and discard removals.
6. Evaluate the quality and reliability of data available for characterizing the size and age distribution of the catch (landings and discard); characterize commercial and recreational landings and discards by size and age.
7. Evaluate the quality and reliability of available data for estimating the impacts of management actions.
8. Recommend assessment methods and models that are appropriate given the quality and scope of the data sets reviewed and management requirements.
9. Provide recommendations for future research (research, sampling, monitoring, and assessment).
10. Prepare complete documentation of workshop actions and decisions, and generate a data workshop report (Section II. of the SEDAR assessment report).

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1 Southpark Circle #306
Charleston SC 29407
Phone (843) 571-4366
Fax (843) 769-4520

SEDAR 7 Assessment Workshop Gulf of Mexico Red Snapper

TERMS OF REFERENCE

1. Select several appropriate modeling approaches based on: 1) available data sources, 2) parameters and values required to manage the stock, and 3) recommendations of the Data Workshop – especially including consideration of possible eastern and western stock units; develop and solve population models incorporating the most recent scientifically sound data.
2. Select a preferred model approach that will be used to provide estimates of population parameters and stock status; provide complete justification for the selected model as well as a review of those methods pursued but ultimately rejected as a preferred approach.
3. Provide measures of model performance, reliability, and goodness of fit.
4. Estimate values for and provide tables of relevant stock parameters (abundance, biomass, fishery selectivity, stock-recruitment relationship, etc; include values by age and year where appropriate).
5. Consider sources of uncertainty related to input data, modeling approach, and model configuration. Provide appropriate and representative measures of precision for stock parameter estimates.
6. Prepare sensitivity runs or consider other modeling approaches to examine the reliability of input data sources.
7. Provide Yield-per-Recruit and Stock-Recruitment analyses.
8. Provide complete SFA criteria: evaluate existing SFA benchmarks, estimate values for alternative SFA benchmarks if appropriate, and estimate SFA benchmarks (MSY, Fmsy, Bmsy, MSST, and MFMT) if not previously estimated; develop stock control rules.
9. Provide declarations of stock status relative to SFA benchmarks: MSY, Fmsy, Bmsy, MSST, MFMT (or their proxies if appropriate).
10. Estimate the Allowable Biological Catch (ABC) for each stock if appropriate.

11. Estimate probable future stock conditions and develop rebuilding schedules if warranted; include estimates of generation time. Calculate rebuilding analyses under the following future exploitation possibilities: $F=0$, $F=\text{current}$, $F=\text{current} \times 0.25$, $F=\text{current} \times 0.5$, $F=\text{current} \times 0.75$.
12. Evaluate the impacts of current management actions, with emphasis on determining progress toward stated management goals.
13. Provide recommendations for future research and data collection (field and assessment); be specific possible in describing sampling design and recommended sampling intensity.
14. Provide thorough justification for any deviations from recommendations of the Data Workshop or subsequent modification of data sources provided by the Data Workshop.
15. Fully and completely document all activities in writing:

Draft Section III of the SEDAR Stock Assessment Report;

Provide required tables of estimated values

Prepare a first draft of the Advisory Report based on the Assessment Workshop's recommended base assessment run for consideration by the Review Panel

Report Completion Schedule:

Draft of all text to SEDAR Secretary for formatting: 2 wks, September 8 2004.

(Will be sent to participants for content review during formatting)

Content Comments Due: 1 week, September 15, 2004

Final Draft to Panel for review: September 17, 2004

Final Comments to Staff: 1 week, September 24, 2004

Final Report Distributed to Review Panelists: October 1, 2004

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SEDAR 7 REVIEW WORKSHOP

Gulf of Mexico Red Snapper

Final Terms of Reference and Panel Instructions

I. Terms of Reference

The SEDAR Assessment Review Panel will evaluate the red snapper assessment, input data, assessment methods, and model results as put forward in the SEDAR stock assessment report. The Assessment Review Panel will:

1. Evaluate the adequacy and appropriateness of all data used in the assessment and state whether or not the data are scientifically sound;
2. Evaluate the adequacy, appropriateness, and application of the methods used to estimate population parameters such as abundance, biomass, and exploitation and state whether or not the methods are scientifically sound;
3. Evaluate the adequacy, appropriateness, and application of the methods used to estimate population benchmarks (*e.g.*, *MSY*, *F_{msy}*, *B_{msy}*, *MSST*, *MFMT*, or their proxies) and required management parameters (*e.g.*, *ABC*) and state whether or not the methods are scientifically sound;
4. Evaluate the adequacy, appropriateness, and application of the methods used to project future population status and, if appropriate, evaluate stock rebuilding; state whether or not the methods are scientifically sound;
5. Ensure that required assessment results (*as listed in the SEDAR Stock Assessment Report Outline*) are clearly and accurately presented in the Stock Assessment Report and that such results are consistent with the Review Panel's decisions regarding adequacy, appropriateness, and application of the data and methods;
6. Evaluate the performance of the Data and Assessment Workshops with regard to their respective Terms of Reference, and state whether or not the Terms of Reference for those previous workshops are adequately addressed in the Stock Assessment Report;
7. Review data and assessment workshop research and monitoring recommendations and make any additional recommendations warranted;

8. Prepare a Peer Review Consensus Report summarizing the Panel's evaluation of the stock assessment and addressing each Term of Reference. (Drafted by the Panel during the Review Workshop with a final report due three weeks after the workshop ends.);

II. Review Panel Instructions

The Assessment Review Panel is charged with reviewing the technical aspects of the presented stock assessment and making judgments regarding the assessment that are based solely upon scientific merit. At no point during the deliberations should the Review Panel consider the implications that the assessment and its results may have upon management decisions or resource users. This is not to imply in any way that such considerations are not important, but rather to acknowledge several important facts: (1) consideration of management impacts is beyond the scope of the charge to the Review Panel, (2) SEDAR specifically strives to separate management considerations from assessment decisions, (3) Review Panel participants are selected based on technical, biological, and assessment knowledge, not social and economic knowledge of a fishery, (4) consideration of social and economic consequences is specifically mandated to the Council and various Council Committees composed of experts qualified to evaluate the social and economic consequences of management actions.

The Assessment Review Panel is discouraged from holding formal votes. Decisions should be based upon the unanimous consensus of the entire panel. In the event that the Chair feels that all avenues for agreement have been exhausted and unanimous consensus is not achievable, the Chair may instruct that the majority opinion be reflected in the report and allow the minority opinion holders to prepare and submit a minority report.

The Assessment Review Panel's primary duty is to review the assessments presented. In the course of this review, the Chair may request a reasonable number of sensitivity runs, additional details of the existing assessments, or similar items from technical staff. However, the review panel is not authorized to conduct an alternative assessment nor to request an alternative assessment from the technical staff present.

If the review panel finds that an assessment does not meet the standards outlined in Items 1 through 6, above, the panel will outline in its report the remedial measures to be taken by the assessment analysts to rectify those shortcomings.

Review Panel members are expected to participate in the entire workshop from start to finish. The supporting Council's strongly discourage panel members from leaving early. Panelists should expect that the Workshop will require the entire time allotted and plan travel accordingly.

Each Review Panelist is expected to contribute to the Consensus Report produced during the Review Workshop. Panelists are encouraged to bring laptop computers for drafting text and supplemental figures. Panelists are notified that evening work sessions will be scheduled as necessary during the workshop to complete the Consensus Report.

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FINAL AGENDA

Monday, April 4, 2005

8:30 a.m.	Convene	
8:30 a.m. – 9:00 a.m.	Introductions and Opening Remarks	John Carmichael & Patrick Cordue, Chair
	<i>- Agenda Review, Task Assignments</i>	
9:00 am – 12:00 pm	Overview Presentation	Jerry Scott, SEFSC
	Data Presentation	Steve Turner, SEFSC
	<i>- Overview of input data and modifications from AW</i>	
12:00 p.m – 2:00 p.m.	Lunch	
2:00 p.m – 6:00 p.m.	Red Snapper Assessment Presentations	Clay Porch, SEFSC
	<i>-Methods and Results Overview</i>	

Milestone: Identify Sensitivity Runs

Tuesday, April 5, 2005

8:30 a.m. – 12:00 p.m.	Red Snapper Assessment Discussions	Chair
	<i>- Focus discussion on preferred model</i>	
	<i>- Identify corrections and adjustments</i>	
	<i>- Identify sensitivity runs</i>	
	<i>- Identify projection runs</i>	

MILESTONE: Identify preferred model configuration

12:00 p.m. – 2:00 p.m.	LUNCH	
2:00 p.m. – 6:00 p.m.	Data and Assessment Terms of Reference	Chair
	<i>- Data Report Review</i>	
	<i>- Assessment Methods Review</i>	
	<i>- Assessment Report Draft Review</i>	

Wednesday, April 6, 2005

8:30 a.m. – 12:00 p.m. Continue Assessment Discussions Chair
- *Review sensitivity analyses*
- *Review Projections*

MILESTONE: Final Call for Additional modelling requests.

12:00 p.m. – 2:00 p.m. LUNCH

2:00 p.m. – 6:00 p.m. Continue Terms of Reference Discussion Chair
- *Projection/benchmark TOR review*
- *Research Recommendations*
- *Review Advisory Report*

Thursday, April 7, 2005

8:30 a.m. – 11:00 a.m. Continue TOR Discussions if necessary Chair
Review Final Model Results
Review additional model runs if necessary
Work session to draft consensus summary
- *Review Panel: Consensus Summary Draft*
- *Assessment Team: Appendices, Advisory Report*

11:00 a.m. – 1:00 p.m. LUNCH

MILESTONES: First Draft Consensus Summary

Draft Assessment Report with Final Results

1:00 p.m. – 4:00 p.m. Work Session
- *Panel: Review and Edit Consensus Summary*
- *Assessment Team: Review and Edit Assessment Report*

4:00 p.m. – 6:00 p.m. Final Review of Consensus Summary Chair

6:00 p.m. ADJOURN