SEDAR 24 – South Atlantic Red Snapper Stock Assessment
Project Schedule (Brief)

ACTIVITY	2010
Workshop Appointments, Schedule, and ToRs approved by Council	March 1-5, 2010
Pre-DW data scoping conference call (DW Panel)	NLT April 1
Data Evaluation Workshop (Charleston, SC)	**May 24-28**
Francis Marion Hotel, 387 King Street, Charleston, SC 29403	
Data Workshop Report complete and provided to Assess Panel	June 18
Assessment Process Stage I (assessment development-3 webinars)	June21-August 25
Assess Webinar 1. Model approaches, data	June 18
Assess Webinar 2. Initial runs, preferred approach	July 14
Assess Webinar 3. Finalize runs and sensitivities	August 13
Assess Webinar 4. Results and reporting	August 24
Assessment Stage I report distributed to AP, RP, and public	August 26
Public Comment Period	August 26-September 6
Tabulated Public Comments to Assessment Panel	September 7
Assessment Process Stage II (public comment consideration-2 webinars)	Sept. 7-Sept. 29
Assess Webinar 1. Discuss public comment, draft responses	September 9
Assess Webinar 2. Finalize public comment responses	September 21
Assessment Report released to Review Panel	September 29
Review Workshop (Savannah, GA)	**October 12-14**
Hilton DeSoto, 15 East Liberty Street, Savannah GA	
SEDAR releases final Stock Assessment Report to SSC	October 29
CIE Review Workshop report released to SSC	November 1
Review Panel SSC members present Stock Assessment Report to SSC	November 8-10
SSC reports Stock Assessment Report to SAFMC	December 6-10

SEDAR

SouthEast Data, Assessment, and Review

South Atlantic Fishery Management Council
Gulf of Mexico Fishery Management Council
Caribbean Fishery Management Council
NOAA Fisheries
Atlantic States Marine Fisheries Commission
Gulf States Marine Fisheries Commission

4055 Faber Place Drive, Suite 201
North Charleston, SC 29405
Phone (843) 571-4366
Fax (843) 769-4520

SEDAR 24. South Atlantic Red Snapper
FINAL Terms of Reference

March 5, 2010

Data Workshop Terms of Reference

1. Review stock structure and unit stock definitions and consider whether changes are required.
2. Review, discuss, and tabulate available life history information (e.g., age, growth, natural mortality, reproductive characteristics); provide appropriate models to describe growth, maturation, and fecundity by age, sex, or length as applicable. Evaluate the adequacy of available life-history information for conducting stock assessments and recommend life history information for use in population modeling. Provide a written description of the biological sampling programs.
3. Compare and contrast life history parameter recommendations between the Gulf and South Atlantic populations of red snapper, and consider whether greater consistency between assessments of Gulf and South Atlantic stocks is appropriate.
4. Evaluate expanded otolith sampling efforts conducted during 2009 and consider which samples are appropriate as indicators of fishery and population age structure. Consider whether revisions of growth models are justified based on these additional samples.
5. Review available research and published literature on discard mortality rates, considering efforts for red snapper and similar species from the Atlantic as well as other areas such as the Gulf of Mexico, and considering recommendations on discard mortality provided through SEDAR 7 (Gulf of Mexico Red Snapper). Provide estimates of discard mortality rates by fishery, gear type, depth, and other feasible strata. Include thorough rationale for recommended discard mortality rates. Provided justification for any recommendations that deviate from the range of discard mortality provided in available research and published literature.
6. Provide measures of population abundance that are appropriate for stock assessment. Consider and discuss all available and relevant fishery dependent and independent data sources. Document all programs evaluated, addressing program objectives, methods, coverage, sampling intensity, and other relevant characteristics. Provide maps of survey coverage. Develop CPUE and index values by appropriate strata (e.g., age, size, area, and fishery); provide measures of precision and accuracy. Evaluate the degree to which available indices adequately represent fishery and population conditions. Recommend which data sources are considered adequate and reliable for use in assessment modeling.
7. Review the application of pre-MRFSS recreational catch records in the SEDAR 15 benchmark assessment and recommend appropriate use of pre-MRFSS data for assessment of red snapper.
8. Characterize commercial and recreational catch, including both landings and discards in both pounds and number. Evaluate and discuss the adequacy of available data for accurately characterizing harvest and discard by species and fishery sector. Provide observed length and age

distributions if feasible. Provide maps of fishery effort and harvest. Provide a written description of the discard sampling programs.

9. Review SEDAR 15 and SEDAR 7 approaches to selectivity of red snapper, post-SEDAR 15 evaluations of fishery selectivity patterns for Atlantic red snapper, and available length and age composition information to develop recommendations for addressing fishery selectivity in the assessment model. Specifically address the degree to which domed shape selectivity should be applied to hook and line fisheries.
10. Provide recommendations for future research in areas such as sampling, fishery monitoring, and stock assessment. Include specific guidance on sampling intensity (number of samples including age and length structures) and appropriate strata and coverage.
11. Develop a spreadsheet of assessment model input data that reflects the decisions and recommendations of the Data Workshop. Review and approve the contents of the input spreadsheet by June 4.
12. No later than June 18, 2010, prepare the Data Workshop report providing complete documentation of workshop actions and decisions (Section II. of the SEDAR assessment report). Develop a list of tasks to be completed following the workshop

Assessment Workshop Terms of Reference

Assessment Process I

1. Review any changes in data following the data workshop and any analyses suggested by the data workshop. Summarize data as used in each assessment model. Provide justification for any deviations from Data Workshop recommendations.
2. Develop population assessment models that are compatible with available data and recommend which model and configuration is deemed most reliable or useful for providing advice. Document all input data, assumptions, and equations. Include a model configuration consistent with the SEDAR 15 base run and additional recent data observations.
3. Provide estimates of stock population parameters (fishing mortality, abundance, biomass, selectivity, stock-recruitment relationship, etc); include appropriate and representative measures of precision for parameter estimates.
4. Characterize uncertainty in the assessment and estimated values, considering components such as input data, modeling approach, and model configuration. Provide appropriate measures of model performance, reliability, and 'goodness of fit'.
5. Provide yield-per-recruit, spawner-per-recruit, and stock-recruitment evaluations including figures and tables of complete parameters.
6. Provide estimates for SFA criteria consistent with applicable FMPs, proposed FMPs and Amendments, other ongoing or proposed management programs, and National Standards. This may include evaluating existing SFA benchmarks, estimating alternative SFA benchmarks, and recommending proxy values; specific criteria for evaluation will be specified in the management summary.
7. Provide declarations of stock status relative to SFA benchmarks, considering both existing and proposed management parameters.
8. Perform a probabilistic analysis of proposed reference points and provide the probability of overfishing at various harvest or exploitation levels and, if the stock is determined to be overfished, the probability of rebuilding within mandated time periods as described in the management summary.
9. Project future stock conditions (biomass, abundance, and exploitation) and develop rebuilding schedules if warranted; include estimated generation time. Stock projections shall be developed in accordance with the following:

   A) If stock is overfished:
   F=0, F=current, F=Fmsy, Ftarget (OY),
   F=Frebuild (max that rebuild in allowed time)

   B) If stock is overfishing
   F=Fcurrent, F=Fmsy, F= Ftarget (OY)

   C) If stock is neither overfished nor overfishing
   F=Fcurrent, F=Fmsy, F=Ftarget (OY)
10. Provide recommendations for future research and data collection (field and assessment); be as specific as practicable in describing sampling design and sampling intensity and emphasize items which will improve future assessment capabilities and reliability.
11. Prepare an accessible, documented, labeled, and formatted spreadsheet containing all model parameter estimates and all relevant population information resulting from model estimates and any projection and simulation exercises. Include all data included in assessment report tables and all data that support assessment workshop figures.

12. No later than August 27, 2010, complete the Draft Assessment Workshop Report for Review (Section III of the SEDAR Stock Assessment Report).

Assessment Process II

1. Review comments submitted during the open pre-review period and review prior recommendations and assessment results in light of submitted comments.
2. Consider whether corrections, revisions, or additional analyses are justified.
3. Address submitted comments as appropriate and document results through working papers, addenda to the draft assessment report, or corrections to the draft assessment report.
4. No later than September 27, 2010, complete the Assessment Workshop Report (Section III of the SEDAR Stock Assessment Report).

Review Workshop Terms of Reference

1. Evaluate the adequacy, appropriateness, and application of data used in the assessment.
2. Evaluate the adequacy, appropriateness, and application of methods used to assess the stock.
3. Recommend appropriate estimates of stock abundance, biomass, and exploitation.
4. Evaluate the methods used to estimate population benchmarks and management parameters (*e.g., MSY, Fmsy, Bmsy, MSST, MFMT, or their proxies*); recommend appropriate management benchmarks, provide estimated values for management benchmarks, and provide declarations of stock status.
5. Evaluate the adequacy, appropriateness, and application of the methods used to project future population status; recommend appropriate estimates of future stock condition (e.g., exploitation, abundance, biomass).
6. Evaluate the adequacy, appropriateness, and application of methods used to characterize uncertainty in estimated parameters. Provide measures of uncertainty for estimated parameters. Comment on the degree to which methods used to evaluate uncertainty reflect and capture the significant sources of uncertainty. Ensure that the implications of uncertainty in technical conclusions are clearly stated.
7. Ensure that stock assessment results are clearly and accurately presented in the Stock Assessment Report and that reported results are consistent with Review Panel recommendations.*
8. Evaluate the SEDAR Process as applied to the reviewed assessment and identify any Terms of Reference which were inadequately addressed by the Data or Assessment Workshops.
9. Consider the research recommendations provided by the Data and Assessment workshops and make any additional recommendations or prioritizations warranted. Clearly denote research and monitoring needs that could improve the reliability of future assessments. Recommend an appropriate interval for the next assessment, and whether a benchmark or update assessment is warranted.
10. Prepare a Peer Review Summary summarizing the Panel's evaluation of the stock assessment and addressing each Term of Reference. Develop a list of tasks to be completed following the workshop. Complete and submit the Peer Review Summary Report no later than November 1, 2010.

* The panel shall ensure that corrected estimates are provided by addenda to the assessment report in the event corrections are made in the assessment, alternative model configurations are recommended, or additional analyses are prepared as a result of review panel findings regarding the TORs above.

SEDAR 24

South Atlantic Red Snapper
Assessment Process Participants
June 18 – September 29, 2010

Kari Fenske, SEDAR 24 Assessment Process Coordinator

Appointee	Function	Affiliation
ASSESSMENT PANEL		
Steve Amick	Charter/Headboat, GA	SAFMC SG AP
Luiz Barbieri	SSC Member	SAFMC
Zack Bowen	Charter/Headboat, GA	SAFMC SG AP
Ken Brennan	Recreational Data Leader	SEFSC
Bobby Cardin	Commercial, FL	
Rob Cheshire	Data Compiler	SEFSC
Chip Collier	SSC Member	SAFMC
Andrew Cooper	SSC Member	SAFMC
Kenny Fex	Commercial, FL	SAFMC SG AP
Frank Hester	Consultant	Southeast Fishery Assoc.
Jim Ianelli	Analyst	Alaska FSC
Paul Spencer	Analyst	Alaska FSC
Robert Johnson	Charter/Headboat, N FL	SAFMC SG AP
Brian Linton	Gulf RS Update Consultant	SEFSC
Mike Murphy or Behzad Mahmoudi	Analyst	FL FWCC
Jennifer Potts	Life History Data Leader	SEFSC
Amy Schueller	Indices Data Leader	SEFSC
Kyle Shertzer	Lead Analyst	NMFS SEFSC Beaufort
Rodney Smith	Recreational, FL	Coastal Angler Magazine
Doug Vaughan	Commercial Data Leader	SEFSC
Erik Williams	Analyst	NMFS SEFSC Beaufort
John Quinlan	Analyst	NMFS SEFSC Miami
COUNCIL REPRESENTATIVES		
George Geiger	Council Member	SAFMC
Charles Phillips	Council Member	SAFMC
COUNCIL AND AGENCY STAFF		
John Carmichael	Fishery Scientist	SAFMC
Rick DeVictor	Lead Fishery Scientist	SAFMC
Rachael Lindsay	Administrative Assistant	SEDAR
Jack McGovern	Fishery Scientist	SERO
Julie Neer	Coordinator	SEDAR
Andy Strelcheck	Fishery Scientist	SERO

(6-3-10)

Gregg Waugh	Fishery Scientist	SAFMC

South Atlantic Update Stock Assessments*

Workshop Participants

Acronyms

AFSC.....Alaska Fisheries Science Center
AP .....Advisory Panel
FL FWCC..... Florida Fish and Wildlife Conservation Commission
NMFS.....National Marine Fisheries Service
SAFMC.....South Atlantic Fishery Management Council
SEDAR .....Southeast Data, Assessment, and Review
SEFSC.....Southeast Fisheries Science Center, NMFS
SERO ..... Southeast Regional Office, NMFS
SG .....Snapper / Grouper
SSC ..... Science and Statistics Committee
TBN.....To be named

(6-3-10)

SEDAR 24

South Atlantic Red Snapper

Review Workshop Participants

October 12-14, 2010

Kari Fenske, SEDAR 24 Coordinator

Appointee	Function	Affiliation
REVIEW PANEL		
John Boreman	SSC Rep	SSC - SAFMC
TBD	SSC Rep	SSC - SAFMC
TBD	Review Panel Chair	SSC - SAFMC
TBD	CIE Reviewer	CIE
TBD	CIE Reviewer	CIE
TBD	CIE Reviewer	CIE
APPOINTED AP AND CONSTITUENT REPRESENTATIVES		
Steve Amick	Charter/Headboat, GA	SAFMC SG AP
Zack Bowen	Charter/Headboat, GA	SAFMC SG AP
Bobby Cardin	Commercial, FL	SAFMC SG AP
Kenny Fex	Commercial, NC	SAFMC SG AP
Rodney Smith	Recreational, FL	SAFMC SG AP
ASSESSMENT WORKSHOP REPRESENTATIVES		
Ken Brennan	Recreational Data Leader	SEFSC Beaufort
Rob Cheshire	Data Compiler	SEFSC Beaufort
Brian Linton	Gulf RS Update Consultant	SEFSC Miami
Jennifer Potts	Life History Data Leader	SEFSC Beaufort
Amy Schueller	Indices Data Leader	SEFSC Beaufort
Kyle Shertzer	Lead Analyst	SEFSC Beaufort
Doug Vaughan	Commercial Data Leader	SEFSC Beaufort
Erik Williams	Analyst	SEFSC Beaufort
COUNCIL REPRESENTATIVES		
George Geiger	Council Member	SAFMC
Charles Phillips	Council Member	SAFMC
COUNCIL AND AGENCY STAFF		
John Carmichael	Fishery Scientist	SAFMC Staff
Rick DeVictor	Lead Fishery Scientist	SAFMC Staff
Rachael Lindsay	Administrative Assistant	SEDAR
Jack McGovern	Fishery Scientist	SERO

(6-29-10)

Julie Neer	Coordinator	SEDAR
Andy Strelcheck	Fishery Scientist	SERO
Gregg Waugh	Fishery Scientist	SAFMC Staff

(6-29-10)

South Atlantic Update Stock Assessments*

Workshop Participants

Acronyms

AP .....Advisory Panel
CIE… ..... Center for Independent Experts
NMFS.....National Marine Fisheries Service
SAFMC.....South Atlantic Fishery Management Council
SEDAR .....Southeast Data, Assessment, and Review
SEFSC.....Southeast Fisheries Science Center, NMFS
SERO ..... Southeast Regional Office, NMFS
SG .....Snapper / Grouper
SSC ..... Science and Statistics Committee
TBD..... To be determined

(6-29-10)