



## Preliminary Project Schedule

### South Atlantic Black Sea Bass & Golden Tilefish

Council and SSC approve TOR	Nov/Dec, 2010
*Data scoping call	week of Feb 14, 2011
*Data webinar	week of March 14 or 21, 2011
<i>Review data series lengths, length frequencies, and summary statistics</i>	
<i>[Note: SA Council meeting</i>	<i>March 7-11, 2011]</i>
<i>[Note: SA SSC meeting</i>	<i>April 5-7, 2011]</i>
*Data workshop – Charleston, SC	April 25-29, 2011
Final data due to data compiler by	May 13, 2011
Data spreadsheet posted to FTP by	May 20, 2011
*Pre-Assessment webinar	Week of May 30, 2011
<i>Discuss pre-base run set up and questions, DW and AW participate</i>	
<i>[Note: SAFMC June meeting</i>	<i>June 13-17, 2011]</i>
*Assessment workshop – Beaufort, NC	June 20-24, 2011
CIE reviewer at workshop, leave with base run set	
*Follow-up Assessment webinars – ~2 webinars per species	July 11-22, 2011
Finish uncertainty, projections	
CIE AW report to AW panel	Aug 1, 2011
Draft assessment report distributed to panel for review	Aug 8-19, 2011
Final AW report due to SEDAR staff	Aug 31, 2010
Assessment report to review panel	Sept 2, 2011
<i>[Note: AFS meeting week, Seattle, WA</i>	<i>Sept 4-8, 2011]</i>
<i>[Note: SAFMC September meeting</i>	<i>Sept 12-16, 2011]</i>
*Review workshop – location TBD	Week of Sept 19, 2011
Review workshop report due to SEDAR	Oct 14, 2011
Final SAR report due to SSC	Oct 17, 2011
Assessment reviewed by SSC	Nov, 2011
Presentation to SAFMC by SSC	Dec 5-9, 2011

\* Would be noticed in the Federal Register

# **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 25 South Atlantic Golden Tilefish Terms of Reference**

**October 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 if new information is available.
  - 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.
3. Recommend discard mortality rates.
  - Review available research and published literature
  - Consider research directed at golden tilefish as well as similar species from the Atlantic and other areas.
  - Provide estimates of discard mortality rate by fishery, gear type, depth, and other feasible or appropriate strata.
  - Include thorough rationale for recommended discard mortality rates.
  - Provide justification for any recommendations that deviate from the range of discard mortality provided in the last benchmark and update (SEDAR 4).
4. 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; address 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) and include measures of precision and accuracy.
  - Discuss 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.

5. Provide commercial catch statistics, 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 or gear.
  - Provide length and age distributions if feasible.
  - Provide maps of fishery effort and harvest.
6. Provide recreational catch statistics, 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 or gear.
  - Provide length and age distributions if feasible.
  - Provide maps of fishery effort and harvest.
7. 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.
8. 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 TBD.
9. Develop a list of tasks to be completed following the workshop.
10. No later than TBD, prepare the Data Workshop report providing complete documentation of workshop actions and decisions (Section II. of the SEDAR assessment report).

## 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 BAM and ASPIC assessment models.
  - Document all input data, assumptions, and equations for each model.
  - Include a model configuration consistent with the SEDAR 2 benchmark as subsequently updated ("Continuity run") incorporating additional data observations.
3. Provide estimates of stock population parameters.
  - Include 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.
  - Consider uncertainty in input data, modeling approach, and model configuration.
  - Consider other sources as appropriate for this assessment.
  - Provide appropriate measures of model performance, reliability, and 'goodness of fit'
5. Provide evaluations of yield and productivity.
  - Include yield-per-recruit, spawner-per-recruit, and stock-recruitment models.
6. Provide estimates for SFA criteria consistent with applicable FMPs, proposed FMPs and Amendments, other ongoing or proposed management programs, and National Standards.
  - Evaluating existing or proposed SFA benchmarks as specified in the management summary.
  - Recommend proxy values when necessary.
7. Provide declarations of stock status relative to SFA benchmarks.
8. Perform a probabilistic analysis of proposed reference points, stock status, and yield.
  - Provide the probability of overfishing at various harvest or exploitation levels.
  - Provide a probability density function for biological reference point estimates.
  - If the stock is overfished, provide the probability of rebuilding within mandated time periods as described in the management summary or applicable federal regulations.
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:
    - $F=0$ ,  $F=current$ ,  $F=F_{msy}$ ,  $F_{target}$  (OY),
    - $F=F_{rebuild}$  (max that rebuild in allowed time)
  - B) If stock is overfishing
    - $F=F_{current}$ ,  $F=F_{msy}$ ,  $F=F_{target}$  (OY)
  - C) If stock is neither overfished nor overfishing
    - $F=F_{current}$ ,  $F=F_{msy}$ ,  $F=F_{target}$  (OY)
10. Provide recommendations for future research and data collection.
  - Be as specific as practicable in describing sampling design and sampling intensity.

- Emphasize items which will improve future assessment capabilities and reliability.
  - Consider data, monitoring, and assessment needs.
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 TBD 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*, *F<sub>msy</sub>*, *B<sub>msy</sub>*, *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 TBD.

\* 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.