Preliminary Project Schedule

South Atlantic Black Sea Bass

Council and SSC approve TOR	Dec. 6-11, 2009
Data scoping call	July 22, 2010
*Data webinar –update on data and data requests	Sept 7 or 8, 2010
*Data workshop	week of Nov 15, 2010
Final data due to data compiler by	week of Jan 3, 2010
Data spreadsheet posted to FTP by	week of Jan 10, 2010
*Assessment webinars – 6-7 webinars	Jan 17-March 7
Draft assessment report distributed to panel/ public for review/comment	March 25
Assessment comment period	March 26-April 8
Response to assessment comments – 2 webinars	April 11-27, 2011
Assessment report to review panel	May 9, 2011
*Review workshop	Week of May 31, 2011
Review workshop report due to SEDAR	week of July 4, 2011
Benchmark report due to SSC	week of July 11, 2011
*Assessment reviewed by SSC (Charleston, SC)	week of Aug 1, 2011
*Presentation to SAFMC by SSC (St. Simons, GA)	Sept 12-16, 2011

* Would be noticed in the Federal Register

Potential BSB Benchmark Data Panelists

NAME	Update	Loca	affil	Role	TO?
Rusty Hudson*		FL	Industry	Advisory	X
Jimmy Hull*		FL	Industry	Advisory	X
Bobby Cardin	X	FL	Industry	Advisory	X
Zack Bowen	X	GA	Industry	Advisory	X
Frank Hester*	X	MEX	Industry	Advisory	X
Andy High[1]	X	NC	Industry	Advisory	X
Kenny Fex	X	NC	Industry	Advisory	X
Erik Williams*	FD	NC	SEFSC	Analytical	
Amy Schueller*	FD	NC	SEFSC	Analytical	
Doug Vaughan*	FD	NC	SEFSC	Analytical	
David Gloeckner*	FD	FL	SEFSC	Data-Fed ALS	
Ken Brennan*	FD	NC	SEFSC	Data-Fed HB	
Tom Sminkey*	FD	DC	NMFS	Data-Fed MRFSS	
Jack Holland		NC	DMF	Data-State Fishery	X
Dave Wyanski*		SC	DNR	Data-State Fishery	X
Joey Ballenger*		SC	MARMAP	Data-State LH	X
Jessica Stephen*		SC	Marmap	Data-State survey	X
Alan Bianchi*		NC	DMF	Data-State TTP	X
David Player *		SC	DNR	Data-State Fishery	
Steve Brown*		FL	FWC	Data-State TTP	X
Michelle Pate* or Laurie DiJoy		SC	MARMAP	Date-State LH	x
Julie Califf*		GA	DNR	Date-State TTP	X
George Geiger	X	FL	Council	Observation	X
Charlie Phillips*		GA	Council	Observation	X
Michael Burton*		NC	SEFSC	Technical	
Jack McGovern*	FD	FL	SERO	Technical	
Andy Cooper*	X	CAN	SSC	Technical	X
John Boreman*	X	NC	SSC	Technical	X
Jeff Buckel*		NC	SSC	Technical	X
Marcel Reichert*	X	SC	SSC	Technical	X
Chip Collier	X	NC	SSC	Technical	X
Paul Rudershausen*		NC	Univ	Technical	X
Steve Cadrin[2]		MA	SSC	Technical	X
Jim Berkson[2]		VA	SSC	Technical	

* Indicates participant on data scoping call (for initial update)

[1]. Replacement for Tom Burgess

[2]. Indicated interest in Update at August 2010 SSC meeting

Assessment Panel

Recommended Council Appointees:

2-3 Industry Advisors

Recommend: Select from DW participants

1-2 Council Observers

Recommend: Select from DW participants

2-3 SSC Technical Advisors

Recommend: Allow staff latitude to identify up to 3 SSC representatives (from DW list above) to serve on the AW panel for approval in December 2010.

2-3 Additional researchers or analytical advisors

Recommend: Frank Hester. Joey Ballenger.

Review Panel

3 CIE Appointees

2-3 SSC Reviewers

Recommend: Allow staff latitude to identify SSC representatives, for approval in December 2010. NOTE: Flexibility is required to preserve independence. Reviewers must be independent - shall not participate in other workshops for this assessment. Thus an appointee at the DW will be ineligible to serve as a reviewer.

1 Other Council-Appointed reviewer

Recommend: Request appointee from NEFSC familiar with NE BSB assessment.

1 SSC Chair.

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
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SEDAR XX. South Atlantic BLACK SEA BASS
Terms of Reference

September 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.
3. Recommend discard mortality rates.
   - Review available research and published literature
   - Consider research directed at black sea bass 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.
   - Provided justification for any recommendations that deviate from the range of discard mortality provided in available research and published literature.
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 population assessment models that are compatible with available data.
   - Consider multiple models
   - Recommend models and configurations considered most reliable or useful for providing advice
   - Document all input data, assumptions, and equations for each model
   - Include a model configuration consistent with the SEDAR 2 benchmark as subequentially 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=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.
    - 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 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 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, 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 thanTBD.

* 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.