

Preliminary Project Schedule

Gulf and South Atlantic Spiny Lobster Assessment Update

- SA Council and SSC approve ToRs December 6-11, 2009
- SA Council approves participants December 11, 2009
- Gulf SL SSC approves ToRs January 20-22, 2009
- Gulf Council approves ToRs and participants February 1-4, 2010
- Data scoping webinar March 23, 2010
- Preliminary data through 2008 compiled by April 22, 2010
- Base run model adjustments developed May 1 to June 18, 2010
- Final data through 2009 compiled by June 1, 2010
- Update Webinar 1 – finalize data; preliminary model discussion June 22, 2010
- Update Webinar 2 July 13, 2010
- Update Webinar 3 July 27, 2010
- Draft update report distributed by team for review August 11, 2010
- Update Workshop August 23-25, 2010
- Update Webinar 4 September 8, 2010
- Update Workshop report sent to council staff for SSC October 18, 2010
- Update Review - joint Gulf SSC and SA SSC November 15-19, 2010
- Update received by SAFMC December 6-10, 2010
- Update received by GMFMC February 7-11, 2011

**Southeast Spiny Lobster
Update Stock Assessment
Workshop Participants
September 28-30, 2010
Key West, Florida**

Assessment Panel

Doug Gregory (Chair).....GMFMC SSC
John Hunt.....GMFMC SL SSC
Anne Lange.....SAFMC SSC
David Eggleston.....SA, Researcher
Karl Lessard.....GMFMC SL AP
Simon Stafford.....GMFMC SL AP
Tony Iarocci.....SA, Commercial
Bob BurtonSAFMC SL AP, Recreational
Nelson EhrhardtSAFMC Appointee

Analytic Team[†]

Bob Muller, Lead Analyst.....FWRI
Joseph Munyandorero, AnalystFWRI
David Chagaris, Analyst.....FWRI

Appointed Observers

Mark Robson.....SAFMC Council Member
Bill Teehan.....GMFMC Council Member
Sue GerhartSERO
Kate Michie.....SERO

Staff

Carrie Simmons – GMFMC Lead Fishery Scientist.....GMFMC
Gregg Waugh – SAFMC Lead Fishery Scientist.....SAFMC
Julie A NeerSEDAR
Tina O’HernGMFMC Staff

**Participants List for Spiny Lobster Update Review
Updated 17 June 2010**

Review Workshop

Appointee	Function	Affiliation
<i>Review Panel</i>		
Doug Gregory	Review Panel Chair	GMFMC SSC/FL SeaGrant
Walter Keithly	GMFMC SSC Reviewer	LSU
	SAFMC SSC Reviewer	
Luiz Barbieri	SAFMC SSC Reviewer	FWRI
Carolyn Belcher	SAFMC SSC Reviewer	GADNR
<i>Analytical Team Representation</i>		
Bob Muller	Lead analyst	FWRI
Joseph Munyandorero	Analytic support	FWRI
<i>Official Observers</i>		
Rene Buesa	GMFMC AP	
<i>Council Representation</i>		
Mark Robson	South Atlantic Council Member	SAFMC
Bill Teehan	Gulf of Mexico Council Member	GMFMC
<i>Staff</i>		
Julie A Neer	SEDAR Coordinator	SEDAR
Rachael Lindsay	Administrative Assistant	SEDAR
Carrie Simmons	Gulf of Mexico Council Staff Lead	GMFMC
Gregg Waugh	South Atlantic Council Staff	SAFMC
	IT Support	NMFS Miami
<i>Other Observers</i>		

Southeastern Spiny Lobster Assessment Update Terms of Reference

**Approved by the South Atlantic Fishery Management Council December 7-11, 2009.
Approved with modification by the Gulf of Mexico Fishery Management Council February 1-4,
2010.**

Update Assessment Workshop - August 23-25, 2010

1. Update the SEDAR 8 assessment of Southeastern US spiny lobster, incorporating data through the end of the 2009-2010 Spiny Lobster Fishing Season. Prepare a continuity scenario and consider additional sensitivity runs to address assessment concerns raised since the benchmark.
2. Evaluate any relevant data and parameters to be included into the stock assessment model. This evaluation should be conducted with all relevant scientific input. Include life history, indices of abundance, and fishery data.
3. Evaluate the relative reliability of fishery dependent and independent data sources and adjust model input appropriately.
4. Update the approved SEDAR 8 Southeastern spiny lobster model base configuration with data through the 2009-2010 Spiny Lobster Fishing Season. Employ the SEDAR 8 SAR 3 statistical catch-at-age model (Integrated Catch-at-Age) as the base and the DeLury model as a check for consistency. The DeLury model used numbers of lobster and effort by fishing year extended back to the 1978-79 fishing year. Both models used fishery-dependent (observer and Biscayne National Park creel survey) and fishery-independent (puerulus and adult monitoring) tuning indices. Sensitivity runs included running the age-structured model with two lipofuscin growth curves and with two alternative natural mortality rates. Retrospective analysis will compare patterns in fishing mortality rates, recruitment, and population sizes relative to the base run results. Document any changes in assessment methodology incorporated in the update.

5. Document any changes or corrections made to input datasets, all additional data added for the update, and any modifications applied to the additional data. Tabulate complete updated input datasets. Provide tables of commercial and recreational landings and discard in the units used in SEDAR 8, SAR 3. Specify units of measurement in all tables.
6. Estimate and provide complete updated tables of stock parameters.
7. Update measures of uncertainty and provide representative measures of precision for stock parameter estimates. If possible, conduct a P* analysis as needed to determine ABC.
8. Update estimates of stock status and SFA parameters; provide declarations of stock status relative to current SFA criteria. Provide clear statements of stock status relative to 'overfishing' and 'overfished'. If a status of 'overfished' or 'overfishing' is determined, run the standard range of projections.
9. Specify OFL, and if possible, recommend a range of ABC for review by the SSC in compliance with ACL guidelines.
10. Evaluate and project future conditions for eleven years (2010-11 through 2020-21 inclusive) beyond the terminal year of the update (2009-10). Run at least these three projection scenarios: $F = F_{\text{current}}$, $F = F_{\text{msy}}$, and $F = F_{\text{oy}}$
- 11a. **(Approved by SAFMC and GMFMC)** Review the research recommendations from SEDAR 8 SAR 3 (2005), note any which have been completed, and make any necessary additions or clarifications. Focus on those items which will improve future assessment efforts.
- 11b. **(Approved by SAFMC, only)** Provide details regarding sampling design, sampling strata and sampling intensity under current exploitation allowances that will facilitate collection of data that will resolve identified deficiencies and impediments in the 2005 assessment. Recommend sampling intensity in terms of the number of sampling events and appropriate elements in order to complete the ACCSP sampling design matrix.

12. Develop an update stock assessment workshop report in SEDAR outline to fully document the input data, methods, and results of the stock assessment update. Address these Terms of Reference. Submit the report to SEDAR no later than October 18, 2010. The report shall be provided to the GMFMC and the SAFMC no later than October 25, 2010.