INTRODUCTION TO SAW-45 ASSESSMENT REPORT

The Northeast Regional Stock Assessment Workshop (SAW) process has three parts: preparation of stock assessments by the SAW Working Groups and/or by **ASMFC** Technical Committees Assessment Committees; peer review of the assessments by a panel of outside experts who judge the adequacy of the assessment as a basis for providing scientific advice to managers; and a presentation of the results and reports to the Region's fishery management bodies.

Starting with SAW-39 (June 2004), the process was revised in two fundamental ways. First, the Stock Assessment Review Committee (SARC) is now a smaller panel with panelists provided by the University of Miami's Independent System for Peer Review (Center of Independent Experts, CIE). Second, the SARC no longer provides management advice. Instead, Council and Commission teams (e.g., Plan Development Monitoring Teams. and Technical Committees) formulate management advice. after an assessment has been accepted by the SARC.

Reports that are produced following SAW/SARC meetings include: Assessment Summary Report - a brief summary of the assessment results in a format useful to managers; this Assessment Report – a detailed account of the assessments for each stock; and the SARC panelist report – a summary of the reviewer's opinions and recommendations as well as appendices consisting of a report from each panelist. SAW/SARC assessment reports available online are http://www.nefsc.noaa.gov/nefsc/publications/ series/crdlist.htm. The CIE review reports and assessment reports can be found at http://www.nefsc.noaa.gov/nefsc/saw/.

The 45th SARC was convened in Woods Hole at the Northeast Fisheries Science

Center, June 4–9, 2007 to review two assessments (northern shrimp *Pandalus borealis*, and Atlantic sea scallop *Placopecten magellanicus*). CIE reviews for SARC45 were based on detailed reports produced by the ASMFC Northern Shrimp Technical Committee and the SAW Invertebrate Working Group.

This Introduction contains a brief summary of the SARC comments, a list of SARC panelists, the meeting agenda, a list of working group meetings and a list of attendees (Tables 1–4). Maps of the Atlantic coast of the USA and Canada are also provided (Figures 1–5).

Outcome of Stock Assessment Review Meeting:

The northern shrimp assessment was accepted by the SARC. Although the reviewers were concerned about how to interpret the unprecedented high abundance index observed in the summer 2006 Gulf of Maine shrimp survey (particularly because the sampling intensity in that survey was lower than in preceding years), evidence of high abundance was also seen in commercial catch rates. The committee concluded that abundance in 2006 was high, but perhaps not as high as indicated by the survey and CSA assessment model. The large measure of agreement between the CSA and ASPIC models reinforced the credibility of the assessment results. Despite preference for reference points that take productivity into account, the reviewers concluded that, given the current low market demand and current high stock size, there is little risk to the stock of using the current reference points in immediate future. Consumption estimates of northern shrimp by fish predators suggested that the rate of natural mortality (M) is higher than the value assumed. The SARC felt that a higher value

for M should be used in future assessments. If M is changed, reference points will have to be recomputed.

The Atlantic sea scallop assessment was accepted by the SARC. The reviewers noted that much had been accomplished since the last assessment to improve data collection and interpretation. The SARC supported the approach of modeling the Mid-Atlantic and Georges Bank resources separately before combining the results. The committee noted that elimination of the retrospective patterns

when the CASA model results from the two areas were combined was fortuitous, and this does did not imply that the patterns have similar causes or that the patterns will cancel out in future assessments. The SARC questioned using F_{max} as a reference point because it does not explicitly ensure protect sufficient biomass to The SARC supported the productivity. projection model (SAMS) because it is based on fairly realistic inputs (e.g., includes spatial considerations).

Table 1. 45th Stock Assessment Review Committee Panel.

45th Northeast Regional Stock Assessment Workshop (SAW 45) **Stock Assessment Review Committee (SARC) Meeting**

June 4-9, 2007 Woods Hole MA

SARC Chairman:

Dr. Michael Prager, chair SEFSC Beaufort, NC 28516 Mike.Prager@noaa.gov

SARC Panelists (CIE):

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Dr. Jake Rice, Director Fisheries and Oceans Canada 200 Kent Street, Stn. 12S015, Ottawa, Ontario K1A OE6 Ottawa (Ontario) Canada K1A OE6 1-613-990-0288, fax 1-613-954-0807

Email: ricej@dfo-mpo.gc.ca

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Table 2. Agenda, 45th Stock Assessment Review Committee Meeting.

45th Northeast Regional Stock Assessment Workshop (SAW 45) **Stock Assessment Review Committee (SARC) Meeting**

Stephen H. Clark Conference Room – Northeast Fisheries Science Center Woods Hole, Massachusetts

June 4 – June 9, 2007

Sessions are open to the public, except where indicated.

AGENDA (5-24-07)

TOPIC	PRESENTER	SARC LE	ADER	RAPPORTEUR	
Monday, 4 June (1:00 – 6:00 PM)					
Welcome Introduction Agenda Conduct of Meeting	James Weinberg, SAW Chairman Michael Prager, SARC Chairman				
Northern shrimp (A)	Bob Glenn & Jason Link Jake Rice Brad Spear				
SARC Discussion	Michael Prager				
Tuesday, 5 June (9 AM – 6 PM) (Lunch: Noon – 1:15 PM)					
Sea scallops (B)	Dvora Hart	Nick Ca	puti & J.	J Maguire Toni Chute	
SARC Discussion	Michael Prager				
Wednesday, 6 June (9 AM – Noon)					
Revisit Northern shrimp (A)	Bob Glenn, Jaso	n Link	Jake Ri	ce Brad Spear	
SARC Discussion	Michael Prager				

Wednesday, 6 June (1:15 – 6)	PM)	
Revisit Sea scallops (B)	Dvora Hart	Nick Caputi & JJ Maguire Toni Chute
SARC Discussion	Michael Prager	
Thursday, 7 June (9 AM – 6:0	00 PM)	
Revisit Assessments (A – B) was Followed by: SARC Report was	*	ded.
Friday, 8 June - Saturday, 9	June	
SARC Report writing (closed).		

Table 3. 45th Stock Assessment Workshop, list of working groups and meetings.

Assessment Group Chair Species Meeting Date/Place

ASMFC Northern Shrimp Technical Committee and NEFSC

Margaret Hunter, Maine Dept. Marine Resources

Northern shrimp

Sept. 28, 2006 Oct. 10, 2006 March 5, 2007 April 19, 2007 Durham, NH

Robert Glenn (Mass. Division Marine Fisheries) Josef Idoine (NEFSC) Clare McBane (NH Dept. Fish and Game) Braddock Spear (ASMFC) Jason Link (NEFSC)

Invertebrate Working Group

Larry Jacobson, NMFS NEFSC

Atlantic sea scallop

March 3-9, April 9-11, April 30 – May 2, 2007. Woods Hole

Dvora Hart (Sea Scallop Assessment Lead Scientist, NEFSC, Woods Hole)

Chuck Adams (School for Marine Science and Technology, UMASS Dartmouth)

Andrew Applegate (New England Fishery Management Council)

Deirdre Boelke (New England Fishery Management Council)

Danielle Brezinski (University of Maine)

Antonie Chute (Rapporteur, NEFSC, Woods Hole)

Chad Demarest (Massachusetts Marine Fisheries Institute)

Bill Du Paul (Virginia Institute of Marine Science)

Demet Haksever (New England Fishery Management Council)

Brad Harris (School for Marine Science and Technology, UMASS Dartmouth)

Chad Keith (NEFSC, Woods Hole)

Chris Legault (NEFSC, Woods Hole)

Michael Marino (School for Marine Science and Technology, UMASS Dartmouth)

Bob Mohn (Invited outside expert, Department of Fisheries and Oceans, Canada)

Paul Nitschke (NEFSC, Woods Hole)

Victor Nordahl (NEFSC, Woods Hole, MA)

Cate O'Keefe (School for Marine Science and Technology, UMASS Dartmouth)

Paul Rago (NEFSC, Woods Hole)

Stacy Rowe (NEFSC, Woods Hole)

David Rudders (Virginia Institute of Marine Science)

Chris Sarro (School for Marine Science and Technology, UMASS Dartmouth)

David Simpson (NEFMC and Connecticut Marine Fisheries Division)

Stephen Smith (Invited outside expert, Department of Fisheries and Oceans, Canada)

Ron Smolowitz (Fisheries Survival Fund)

Kevin Stokesbury (School for Marine Science and Technology, UMASS Dartmouth)

Jim Weinberg (NEFSC, Woods Hole)

Noelle Yochum (Virginia Institute of Marine Science)

Table 4. 45th SAW/SARC, List of Attendees

NEFSC
NEFSC
SMAST, UMASS Dartmouth
Atlantic Cape Fisheries, Inc.
NEFMC
United National Fishermen's Assoc.
SMAST, UMASS Dartmouth
NEFSC
MASS Division of Marine Fisheries
NEFSC

NEFSC

ASMFC

J. Idoine

B. Spear

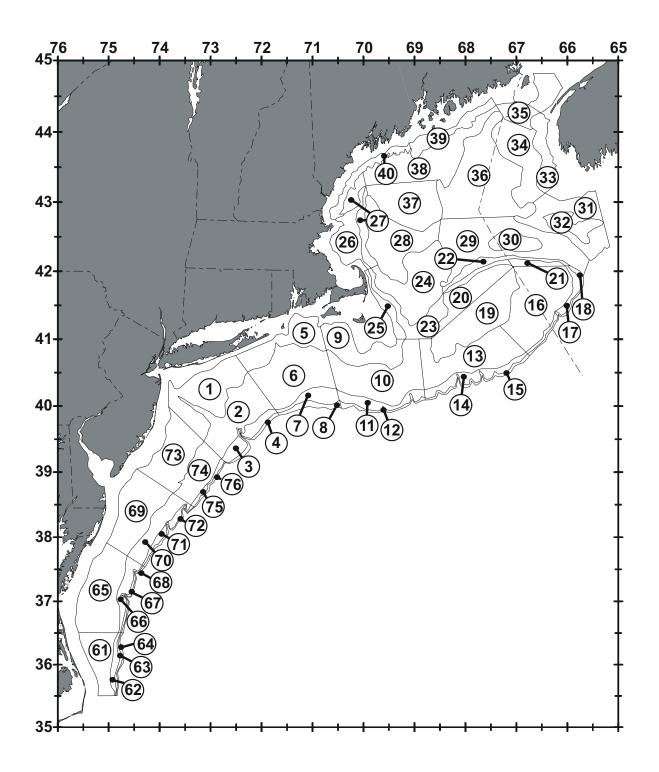


Figure 1. Offshore depth strata sampled during Northeast Fisheries Science Center bottom trawl research surveys.

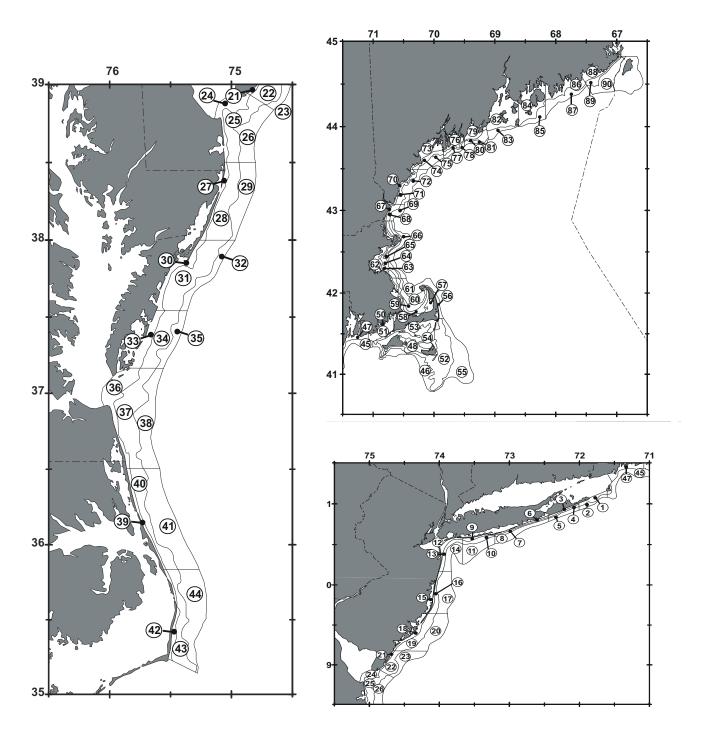


Figure 2. Inshore depth strata sampled during Northeast Fisheries Science Center bottom trawl research surveys.

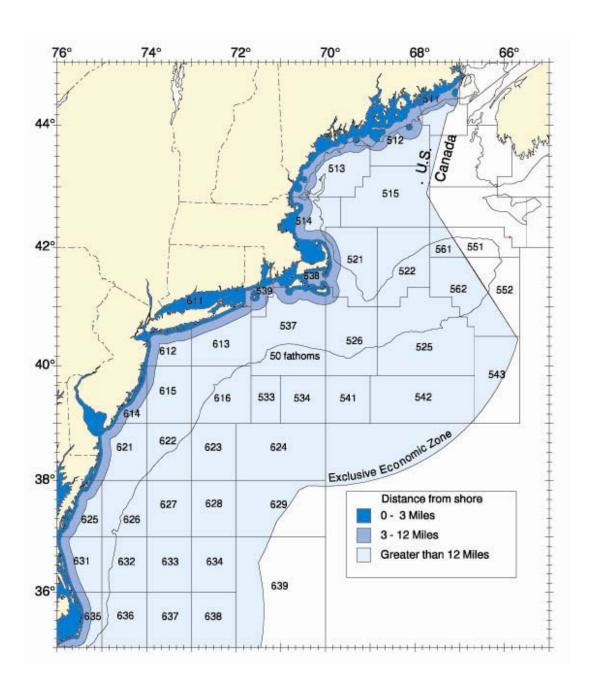


Figure 3. Statistical areas used for reporting commercial catches.

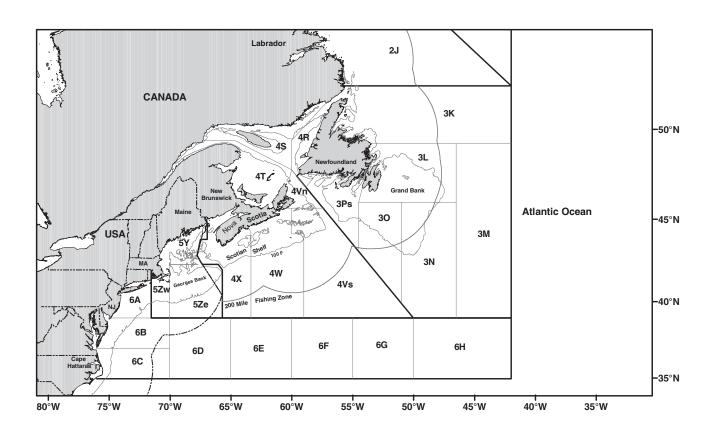


Figure 4. Catch reporting areas of the Northwest Atlantic Fisheries Organization (NAFO) for Subareas 3-6.

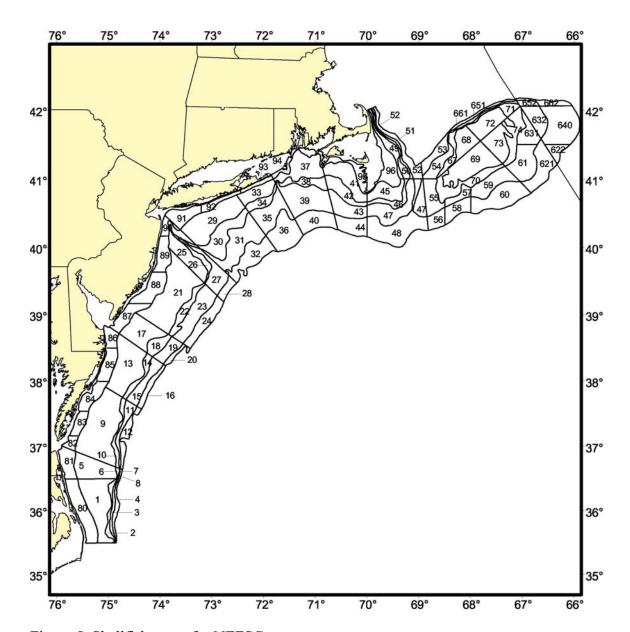


Figure 5. Shellfish strata for NEFSC resource surveys.