Dear Laurence,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 8 of your assessments, and now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please follow the steps below to ensure that your assessments have been dutifully represented:

QA/QC steps

For each assessment:

- 1. Ensure that the General assessment details are correct.
- 2. Ensure that the units for all Biometrics and Time Series shown are correct. To aid in this, we have included the minimum, maximum, first year, and last year of the spawning stock biomass, recruitment, fishing mortality, total biomass, and catch (where provided).
- 3. If there are blank values in the Biometrics table, please include these in your response (see below), where they are available. Please note that in the Biometrics table, the following abbreviations are used:
 - SSB-AGE-yr = Ages for which the spawning stock biomass is defined
 - REC-AGE = Age at recruitment
 - F-AGE-yr = Ages for which the fishing mortality is defined
 - TB-AGE-yr = Ages for which the total biomass is defined
 - M = Natural mortality
 - A50-yr = The age at 50% maturity
 - L50-cm = The length at 50% maturity
 - MORATOR-yr-yr = Moratorium years
 - LME = Large Marine Ecosystem
- 4. To ensure that the recruitment time series has been offset by the age at recruitment so that yearclass matches up with spawner biomass, please make sure that the difference between the last year of the recruitment and last year of the SSB time series is equal to the age at recruitment supplied (unless there is another reason, e.g. estimates unavailable).
- 5. Provide Large Marine Ecosystem (LME) designation(s) for your stock (unless it is a high seas stock). Please enter a primary, secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided on the last page of this document.

QA/QC submission process

If you (or someone else) submitted the assessments via the RAM legacy site, please log into: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting and locate the issue(s) associated with your spreadsheet submission(s). Once you locate your assessment, open the associated issue and choose "Add response". At the top of this response write:

QAQC: Assessment ID (this ID is located at the top of each assessment in the current document)

If you did not submit via the RAM Legacy site, please go to the url above and click "Submit a new issue" with the title: *QAQC: Assessment ID* (located at the top of each assessment in this pdf).

If you found no issues with the QA/QC document, please type:

"QA/QC correct". If you have found issues, please update the assessment spreadsheet accordingly or write the details of corrections to be made in the dialogue box. Once we have received and processed your response, the assessment will be flagged as quality controlled and the data it contains will be used for analyses.

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QA/QC steps
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SEFSC-BTIPSHARGM-1981-2004-FAUCONNET
SEFSC-FTOOTHSHARATL-1976-2005-FAUCONNET
SEFSC-SBARSHARATL-1975-2004-FAUCONNET
SEFSC-SNOSESHARATL-1950-2005-FAUCONNET
ME map

Assessment of Nothwest Pacific Ocean shortfin mako (*Isurus oxyrinchus*) Assessment ID:IMARM-SFMAKONWPAC-1990-2003-FAUCONNET

Assessment ID:IMARM-SFMAKONWPAC-1990-2003-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/400

Area ID: multinational-UNKNOWN-NWPAC

General assessment details.

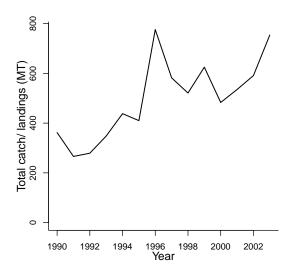
Detail	Value
Management body	UNKNOWN
Assessment group	Institute of Marine Affairs and Resource
	Management - National Taiwan Ocean
	University, 2 Pei-Ning Road, Keelung
	20224, Taiwan
Assessment authors	Chang, Jui-Han
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1990-2003
Document	Chang-Liu-2009-Shortfin-mako-
	NWPAC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-06-11
Date last loaded	2011-03-03
QA/QC complete	YES
Date approved	2011-03-03

sec	ondary I	ME	tertiary Ll	ME			
-99 - Pacific High Seas -98 - Atlantic High Seas -97 - Indian High S							
Value	Units						
17-21 0-22 0-18	yr yr-yr yr-yr	Parameter F30%-1/yr F35%-1/yr F40%-1/yr	Value 0.052 0.045 0.04	Units 1/yr 1/yr 1/yr 1/yr			
	Value 17-21 0-22	value Units 17-21 yr 0-22 yr-yr	Value Units 17-21 yr 0-22 yr-yr 0-18 yr-yr F30%-1/yr F35%-1/yr F40%-1/yr	Parameter Value 17-21 yr 0-22 yr-yr 0-18 yr-yr F30%-1/yr 70.045 F40%-1/yr 0.04			

Time series minima and maxima								
SSB R F TB Catch								
Minimum year					1990			
Maximum year					2003			
Time series minimum					266			
Time series maximum					776			
Units					MT			

No biomass data available

No recruitment data available



Assessment of Atlantic bonnethead shark (Sphyrna tiburo) Assessment ID:SEFSC-BHEADSHARATL-1950-2005-FAUCONNET

Assessment ID:SEFSC-BHEADSHARATL-1950-2005-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/326

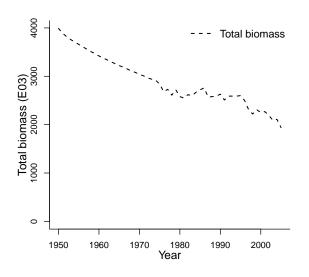
Area ID: USA-NMFS-ATL

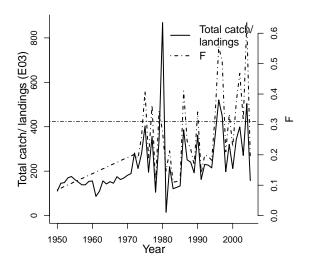
General assessment details.

Detail	Value						
Management body	NMFS						
Assessment group	Southeast Fisheries Science Center						
Assessment authors	Brooks, Liz						
Assessment method	Age-structured surplus production						
	model						
Publication year	2007						
Timeseries span	1950-2005						
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in						
	database)						
Recorder	FAUCONNET						
Date entered	2009-05-08						
Date last loaded	2010-02-25						
QA/QC complete	NO						
Date approved							

primary LME	secondary LME			tertiary LME
6 - Southeast U.S. Continental Shelf	7 - Northeast U.S	. Continenta	l Shelf	na
SSB-AGE-yr 3.5 yr — SSB-SEX-sex 1 sex REC-AGE-yr age 1? yr TB-AGE-yr F-AGE-yr M A50-yr	Reference Parameter Fmsy-1/yr (F) Fcurrent-1/T (F) MSY-MT (TB) SPRmsy-E00 SSFmsy-E00 Nmsy-E00 BH-h-dimless F_{2005}/F_{msy}	0.31 0.19 568871 0.42 1.99E+06 1.92E+06 0.44 0.606	Units 1/yr 1/T MT E00 E00 E00 dimless	s

Time series minima and maxima								
SSB R F TB Catch								
Minimum year			1950	1950	1950			
Maximum year	· · · · · · · · · · · · · · · · · · ·							
Time series minimum								
Time series maximum			0.635	3990	868.767			
Units			1/yr	E03	E03			





Assessment of Atlantic blacknose shark (Carcharhinus acronotus)

Assessment ID:SEFSC-BNOSESHARATL-1950-2005-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/324

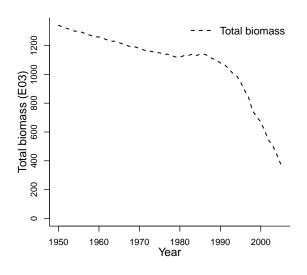
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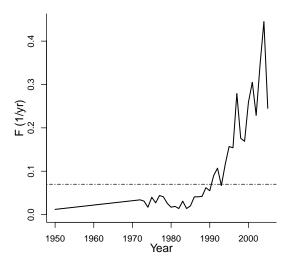
General assessment details.

Detail	Value						
Management body	NMFS						
Assessment group	Southeast Fisheries Science Center						
Assessment authors	Brooks, Liz						
Assessment method	Age-structured surplus production						
	model						
Publication year	2007						
Timeseries span	1950-2005						
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in						
	database)						
Recorder	FAUCONNET						
Date entered	2009-05-06						
Date last loaded	2010-07-21						
QA/QC complete	NO						
Date approved							

primary LME			secondary LME			tertiary LME
6 - Southeast U.S. Co	6 - Southeast U.S. Continental Shelf			Continen	tal Shelf	na
Parameter SSB AGE vr	Value	Units	Referen Parameter	ce points Value	Units	_
SSB-AGE-yr SSB-SEX-sex REC-AGE TB-AGE-yr F-AGE-yr M A50-yr L50-cm	1	yr sex	Fmsy-1/yr (F) Fcurrent-1/T (F) MSY-MT (TB) SPRmsy-E00 SSFmsy-E00 Nmsy-E00 BH-h-dimless F_{2005}/F_{msy}	0.07 0.24 89.415 0.71 349060 570753 0.24 3.500	1/yr 1/T MT E00 E00 E00 dimless	

Time series minima and maxima							
	SSB	R	F	TB	Catch		
Minimum year			1950	1950			
Maximum year			2005	2005			
Time series minimum			0.012	372			
Time series maximum			0.445	1340			
Units			1/yr	E03			





Assessment of Atlantic blacktip shark (Carcharhinus limbatus)

Assessment ID:SEFSC-BTIPSHARATL-1981-2004-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/321

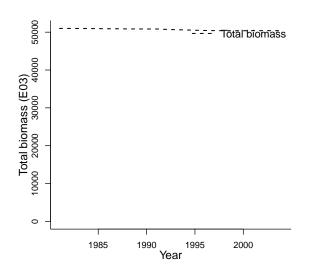
Area ID: USA-NMFS-ATL

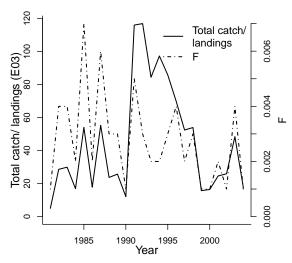
General assessment details.

Detail	Value					
Management body	NMFS					
Assessment group	Southeast Fisheries Science Center					
Assessment authors	Carlson, John					
Assessment method	State-space age-stuctured production model					
Publication year	2006					
Timeseries span	1981-2004					
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in database)					
Recorder	FAUCONNET					
Date entered	2009-05-05					
Date last loaded	2010-07-21					
QA/QC complete	NO					
Date approved						

primary LME	primary LME secondary LME					
6 - Southeast U.S. Continental Shelf			7 - Northeast U	.S. Continen	tal Shelf	na
Parameter SSB-AGE-yr SSB-SEX-sex A50-yr REC-AGE TB-AGE-yr F-AGE-yr M L50-cm	Value 7.5 1 7.5	Units yr sex yr	Refer Parameter Fmsy-1/T (F) MSY-MT (TB) R0-E00 SPRmsy-E00 BH-h-dimless F_{2004}/F_{msy}	ence points Value 0.2 1.49E+04 1.50E+06 0.62 0.38 0.005	Units 1/T MT E00 E00 dimless	_

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1981	1981	1981				
Maximum year			2004	2004	2004		
Time series minimum 0.001 50365.1 5					5		
Time series maximum			0.007	50996.3	116.8		
Units			1/yr	E03	E03		





Assessment of Gulf of Mexico blacktip shark (Carcharhinus limbatus)

Assessment ID:SEFSC-BTIPSHARGM-1981-2004-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/322

Area ID: USA-NMFS-GM

General assessment details.

Detail	Value				
Management body	NMFS				
Assessment group	Southeast Fisheries Science Center				
Assessment authors	Carlson, John				
Assessment method	State-space age-stuctured production model				
Publication year	2006				
Timeseries span	1981-2004				
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in database)				
Recorder	FAUCONNET				
Date entered	2009-05-04				
Date last loaded	2010-07-21				
QA/QC complete	NO				
Date approved					

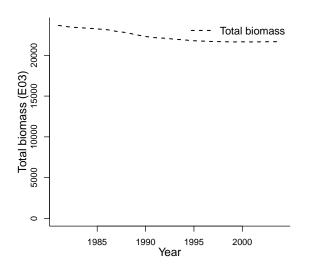
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

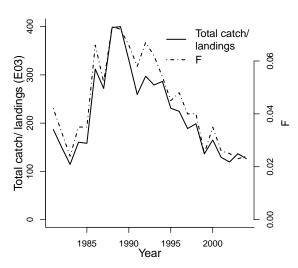
primary LME

secondary LME tertiary LME

5 - Gulf of Mexico na na						
Parameter	Value	Units	Refer	ence points		
SSB-AGE-yr	6.5	yr	Parameter	Value	Units	
SSB-SEX-sex A50-yr REC-AGE TB-AGE-yr F-AGE-yr M L50-cm	6.5	sex yr	Fmsy-1/T (F) MSY-MT (TB) R0-E00 SPRmsy-E00 BH-h-dimless F_{2004}/F_{msy}	0.20 2.42E+04 1.50E+07 0.62 0.40 0.120	1/T MT E00 E00 dimless	

Time series minima and maxima							
SSB R F TB Catch							
Minimum year 1981 1981 19							
Maximum year			2004	2004	2004		
Time series minimum 0.023 21636.06 114							
Time series maximum			0.073	23667.92	400.1		
Units			1/yr	E03	E03		





Assessment of Atlantic finetooth shark (Carcharhinus isodon) Assessment ID:SEFSC-FTOOTHSHARATL-1976-2005-FAUCONNET

Assessment ID:SEFSC-FTOOTHSHARATL-1976-2005-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/323

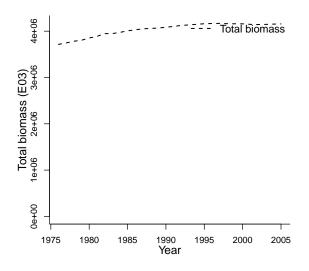
Area ID: USA-NMFS-ATL

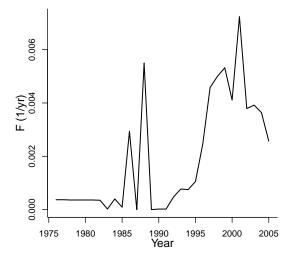
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Brooks, Liz
Assessment method	Bayesian Biomass Model
Publication year	2007
Timeseries span	1976-2005
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in
	database)
Recorder	FAUCONNET
Date entered	2009-05-07
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

primary l	primary LME secondary LME						tertiary LME
6 - Southeast U.S. Continental Shelf 7 - Northeast U.S.					S. Continen	tal Shelf	na
Ī	Parameter	Value	Units	Refere	nce points		
	A50-yr	5	yr	Parameter	Value	Units	
	REC-AGE		•	Fmsy-1/T (F)	0.030	1/T	
S	SSB-AGE-yr			Nmsy-E00	3199000	E00	
S	SSB-SEX-sex			MSY-E00	96000	E00	
	TB-AGE-yr			K-E00	6397000	E00	
1	F-AGE-yr			RY-E00	21000	E00	
I	M			r-1/yr	0.060	1/yr	
I 	L50-cm			F{2005}/F_{msy}	0.086		

Time series minima and maxima						
SSB R F TB Catch						
Minimum year			1976	1976		
Maximum year			2005	2005		
Time series minimum			0	3715591		
Time series maximum			0.00724	4168160		
Units			1/yr	E03		





Assessment of Atlantic sandbar shark

(Carcharhinus plumbeus)
Assessment ID:SEFSC-SBARSHARATL-1975-2004-FAUCONNET
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/304

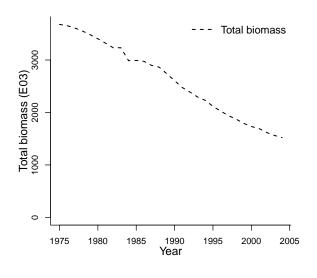
Area ID: USA-NMFS-ATL

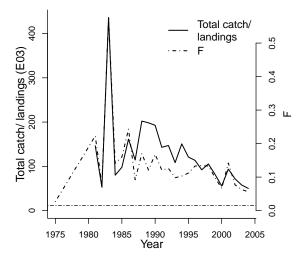
General assessment details.

Detail	Value					
Management body	NMFS					
Assessment group	Southeast Fisheries Science Center					
Assessment authors	Carlson, John					
Assessment method	State-space age-stuctured production model					
Publication year	2006					
Timeseries span	1975-2004					
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in database)					
Recorder	FAUCONNET					
Date entered	2009-04-29					
Date last loaded	2010-02-25					
QA/QC complete	NO					
Date approved						

primary LME secondary LME tertia					ary LME	
8 - Scotian Sl	8 - Scotian Shelf 7 - Northeast U.S. Continental Shelf na					
Parameter Value Units Reference points						
SSB-AGE-yr	19	yr	Parameter	Value	Units	
SSB-SEX-sex	1	sex	Fmsy-1/T (F)	0.015	1/T	
A50-yr	19	yr	Fref-1/T (F)	9.80E-05	1/T	
M-1/T	0.224	1/T	MSY-MT (TB)	403	MT	
REC-AGE			R0-E00	5.00E+05	E00	
TB-AGE-yr			SPRmsy-E00	0.95	E00	
F-AGE-yr			SSFmsy-E00	1127210.53	E00	
M			BH-h-dimless	0.32	dimless	
L50-cm			F_{2004}/F_{msy}	3.733		

Time series minima and maxima							
SSB R F TB Catch							
Minimum year 1975 1975 198							
Maximum year			2004	2004	2004		
Time series minimum 0.027 1520.56 50.1							
Time series maximum			0.576	3678.73	436		
Units			1/yr	E03	E03		





Assessment of Atlantic atlantic sharpnose shark

(Rhizoprionodon terraenovae)

Assessment ID:SEFSC-SNOSESHARATL-1950-2005-FAUCONNET Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/325

Area ID: USA-NMFS-ATL

General assessment details.

Detail	Value				
Management body	NMFS				
Assessment group	Southeast Fisheries Science Center				
Assessment authors	Brooks, Liz				
Assessment method	Age-structured surplus production				
	model				
Publication year	2007				
Timeseries span	1950-2005				
Document	SmallcoastalAtl2007-SEFSC.pdf (pdf in				
	database)				
Recorder	FAUCONNET				
Date entered	2009-05-07				
Date last loaded	2010-02-25				
QA/QC complete	NO				
Date approved					

primary LME			secondary LME			tertiary LME	
6 - Southeast U.S. Continental Shelf			7 - Northeast U.S	7 - Northeast U.S. Continental Shelf			
Parameter	Value	Units	Referen Parameter	nce points Value	Units	-	
SSB-AGE-yr SSB-SEX-sex REC-AGE TB-AGE-yr F-AGE-yr M A50-yr L50-cm	2.5	yr sex	Fmsy-1/yr (F) Fcurrent-1/T (F) MSY-MT (TB) r-1/yr SPRmsy-E00 SSFmsy-E00 Nmsy-E00 BH-h-dimless	0.19 0.13 1.27E+06 0.165 0.59 4.59E+06 4.62E+06 0.42	1/yr 1/T MT 1/yr E00 E00 dimless	S	

Time series minima and maxima					
	SSB	R	F	ТВ	Catch
Minimum year					1950
Maximum year					2005
Time series minimum					115.836
Time series maximum					1723.362
Units					E03

No biomass data available

No recruitment data available

