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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SEFSC-BNOSESHARATL-1950-2005-FAUCONNET
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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.

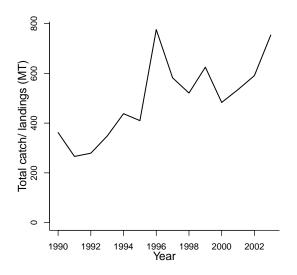
Detail	Value
Management body	UNKNOWN
Assessment group	Institute of Marine Affairs and Resource
	Management - National Taiwan Ocean
	University, 2 Pei-Ning Road, Keelung
	20224, Taiwan
Assessment authors	Chang, Jui-Han
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1990-2003
Document	Chang-Liu-2009-Shortfin-mako-
	NWPAC.pdf (pdf in database)
Recorder	FAUCONNET
Date entered	2009-06-11
Date last loaded	2010-02-25
QA/QC complete	NO
Date approved	

primary LME secondary			condary	LME tertiary LME		
-99 -	- Pacific High S	eas -98	3 - Atlan	tic High Seas	-97 - Ind	ian High Seas
	Parameter	Value	Units			
	SSB-AGE-yr F-AGE-yr-yr	17-21 0-22	yr yr-yr	Referen Parameter	nce points Value	s Units
	F-AGE-yr-yr REC-AGE TB-AGE-yr M A50-yr L50-cm	0-18	yr-yr	F30%-1/yr F35%-1/yr F40%-1/yr F0.1-1/yr (F)	0.052 0.045 0.04 0.063	1/yr 1/yr 1/yr 1/yr

Time series minima and maxima								
SSB R F TB Catch								
Minimum year				1990				
Maximum year								
Time series minimum 26								
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

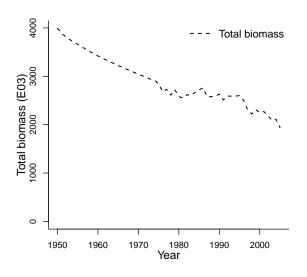
Area ID: USA-NMFS-ATL

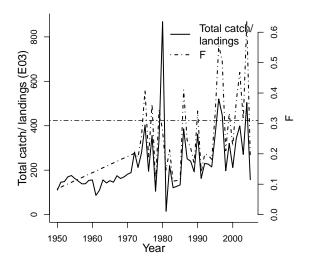
General assessment details.

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. Con	tinental Shelf	7 - Northeast U.S	7 - Northeast U.S. Continental Shelf		
- T			nce points	T T •4	_
Parameter Val	lue Units	Parameter	Value	Units	
SSB-AGE-yr 3.5	5 yr	Fmsy-1/yr (F)	0.31	1/yr	
REC-AGE-yr age	e 1? yr	Fcurrent-1/T (F)	0.19	1/T	
TB-AGE-yr		MSY-MT (TB)	568871	MT	
F-AGE-yr		SPRmsy-E00	0.42	E00	
M		SSFmsy-E00	1.99E+06	E00	
A50-yr		Nmsy-E00	1.92E+06	E00	
L50-cm		BH-h-dimless	0.44	dimless	8
		F_{2005}/F_{msy}	0.606		

Time series minima and maxima								
SSB R F TB Catch								
Minimum year			1950	1950	1950			
Maximum year			2005	2005	2005			
Time series minimum	· · · · · · · · · · · · · · · · · · ·							
Time series maximum			0.635	3990	868.767			
Units			1/yr	E03	E03			





Assessment of Atlantic blacknose shark (Carcharhinus acronotus)

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

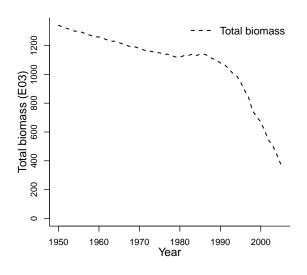
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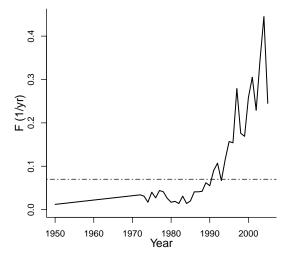
General assessment details.

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	2010-02-25						
QA/QC complete	NO						
Date approved							

primary LME			secondary LME		tertiary LME			
6 - Southeast U.S. C	6 - Southeast U.S. Continental Shelf			7 - Northeast U.S. Continental Shelf				
Parameter	Value	Units	Parameter	Value	Units			
SSB-AGE-yr	4.5	yr	Fmsy-1/yr (F)	0.07	1/yr	-		
REC-AGE			Fcurrent-1/T (F)	0.24	1/T			
TB-AGE-yr			MSY-MT (TB)	89.415	MT			
F-AGE-yr			SPRmsy-E00	0.71	E00			
M			SSFmsy-E00	349060	E00			
A50-yr			Nmsy-E00	570753	E00			
L50-cm			BH-h-dimless	0.24	dimless			
-			F_{2005}/F_{msy}	3.500		_		

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

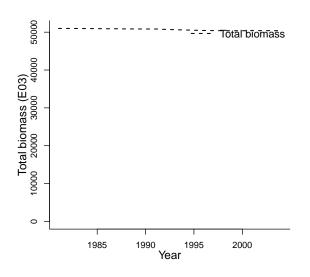
Area ID: USA-NMFS-ATL

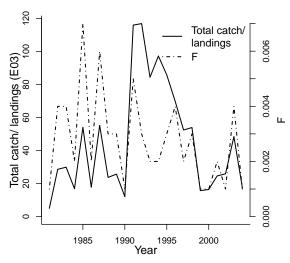
General assessment details.

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	2010-02-25					
QA/QC complete	NO					
Date approved						

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

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								
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.

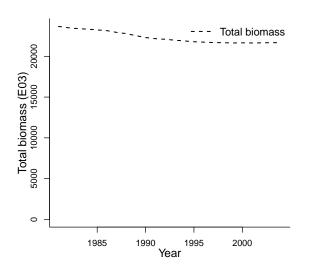
Detail	Value					
Management body	NMFS					
Assessment group	Southeast Fisheries Science Center					
Assessment authors	Carlson, John					
Assessment method	State-space age-stuctured production					
	model					
Publication year	2006					
Timeseries span	1981-2004					
Document	LargeCoastalAtl2006-SEFSC.pdf (pdf in					
	database)					
Recorder	FAUCONNET					
Date entered	2009-05-04					
Date last loaded	2010-02-25					
QA/QC complete	NO					
Date approved						

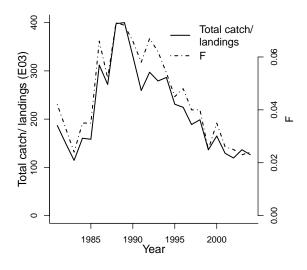
			Parameter	
			SSB-AGE-yr	(
primary LME	secondary LME	tertiary LME	A50-yr REC-AGE	(
5 - Gulf of Mexico	na	na	TB-AGE-yr	
			F-AGE-yr	
			IVI	

Parameter	vaiue	Units
SSB-AGE-yr	6.5	yr
A50-yr	6.5	yr
REC-AGE		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points						
Parameter	Value	Units				
Fmsy-1/T (F)	0.20	1/T				
MSY-MT (TB)	2.42E+04	MT				
R0-E00	1.50E+07	E00				
SPRmsy-E00	0.62	E00				
BH-h-dimless	0.40	dimless				
F_{2004}/F_{msy}	0.120					

Time series minima and maxima							
SSB R F TB Catch							
Minimum year			1981	1981	1981		
Maximum year							
Time series minimum 0.023 21636.06 114.5							
Time series maximum 0.073 23667.92 40							
Units			1/yr	E03	E03		





Assessment of Atlantic finetooth shark (Carcharbinus isodon)

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

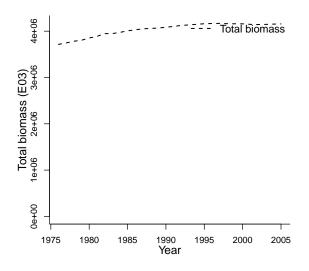
Area ID: USA-NMFS-ATL

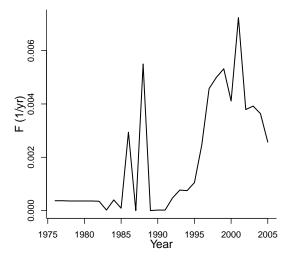
General assessment details.

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	2010-02-25
QA/QC complete	NO
Date approved	

primary LME	ary LME secondary LME					
6 - Southeast U.S. Con	6 - Southeast U.S. Continental Shelf				ıtal Shelf	na
Parameter A50-yr REC-AGE SSB-AGE-yr TB-AGE-yr F-AGE-yr M L50-cm	Value 5	Units yr	Reference Parameter Fmsy-1/T (F) Nmsy-E00 MSY-E00 K-E00 RY-E00 r-1/yr F_{2005}/F_{msy}	nce points Value 0.030 3199000 96000 6397000 21000 0.060 0.086	Units 1/T E00 E00 E00 E00 1/yr	

Time series minima and maxima							
SSB R F TB Catch							
Minimum year			1976	1976			
Maximum year							
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

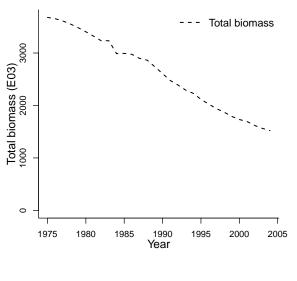
Area ID: USA-NMFS-ATL

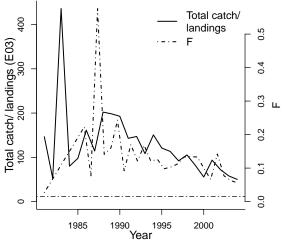
General assessment details.

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	C		second	ary LME terti	ary LME	
7 - Northeast U.S. Continental Shelf na na						
Parameter SSP ACE vm	Value	Units	Refe Parameter	erence points Value	Units	
SSB-AGE-yr A50-yr M-1/T REC-AGE TB-AGE-yr F-AGE-yr M L50-cm	19 19 0.224	yr yr 1/T	Fmsy-1/T (F) Fref-1/T (F) MSY-MT (TB) R0-E00 SPRmsy-E00 SSFmsy-E00 BH-h-dimless F_{2004}/F_{msy}	0.015 9.80E-05 403 5.00E+05 0.95 1127210.53 0.32 3.733	1/T 1/T MT E00 E00 E00 dimless	

Time series minima and maxima								
SSB R F TB Catch								
Minimum year			1975	1975	1981			
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					
6 - Southeast U.S.	na					
			Refere	_		
Parameter	Value	Units	Parameter	Value	Units	
SSB-AGE-yr	2.5	yr	Fmsy-1/yr (F)	0.19	1/yr	
REC-AGE			Fcurrent-1/T (F)	0.13	1/T	
TB-AGE-yr			MSY-MT (TB)	1.27E+06	MT	
F-AGE-yr			r-1/yr	0.165	1/yr	
M			SPRmsy-E00	0.59	E00	
A50-yr			SSFmsy-E00	4.59E+06	E00	
L50-cm			Nmsy-E00	4.62E+06	E00	
-			BH-h-dimless	0.42	dimless	<u> </u>

Time series minima and maxima								
	SSB	R	F	TB	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

