Dear Boris,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 3 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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Assessment of Northern Atlantic albacore tuna (*Thunnus alalunga*) Assessment ID:ICCAT-ALBANATL-1929-2005-WORM

Assessment ID:ICCAT-ALBANATL-1929-2005-WORM Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/24

Area ID: multinational-ICCAT-NATL

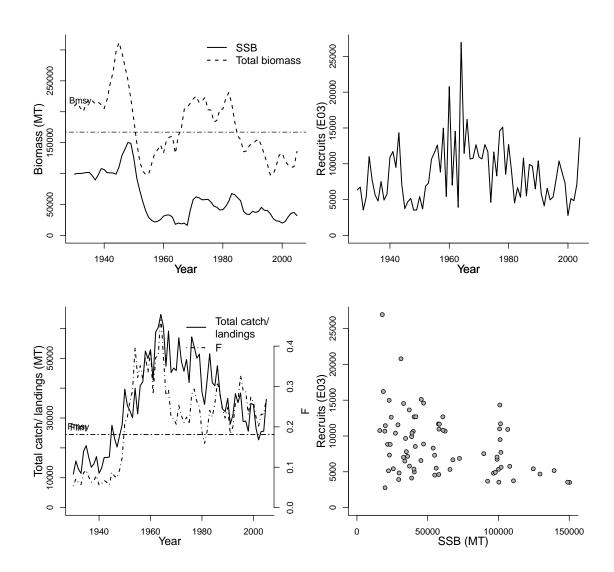
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Con-
	servation of Atlantic Tunas
Assessment authors	Anon.
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1929-2005
Document	2007-ALB-STOCK-ASSESS-REP.pdf (pdf
	in database)
Recorder	WORM
Date entered	2008-11-14
Date last loaded	2009-06-04
QA/QC complete	YES
Date approved	2009-06-04

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

	primary	LME		secondary LME	terti	ary LME	
	-98 - Atla	antic Hi	gh Seas	na	na		
				Refere	ence	points	
Parame	ter	Value	Units	Parameter		Value	Units
SSB-AC	E-yr	5	yr	Flim-1/T (F)		0.181	1/T
SSB-SE	X-sex	0	sex	Fmsy-1/T (F)		0.181	1/T
A50-yr		5	yr	Fcurrent-1/T (F))	0.272	1/T
L50-cm		90	cm	NATMORT-1/yr	(M)	0.3	1/yr
NATMO	RT-1/yr	0.3	1/yr	MSY-MT (TB)		30230	MT
REC-AC	GE			Bmsy-MT (TB)		167000	MT
TB-AGE	E-yr			Brebuild-MT (TE	3)	167000	MT
F-AGE-	yr			F_{2005}/F_{lim}		1.490	
M				TB_{2005}/B_{msy}		0.813	
				F_{2005}/F_{msy}		1.490	

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1930	1929	1930	1930	1930			
Maximum year	2005	2004	2005	2005	2005			
Time series minimum	16138	2770	0.05382	97677	11250			
Time series maximum	150260	26950	0.4781	312140	64633.908			
Units	MT	E03	1/T	MT	MT			



Assessment of Eastern Atlantic atlantic bluefin

tuna (*Thunnus thynnus*)
Assessment ID:ICCAT-ATBTUNAEATL-1969-2007-WORM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/128

Area ID: multinational-ICCAT-EATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anon.
Assessment method	Virtual Population Analysis
Publication year	
Timeseries span	1969-2007
Document	2008-BFT-STOCK-ASSESS-REP.pdf (pdf
	in database)
Recorder	WORM
Date entered	2009-01-22
Date last loaded	2010-02-25
QA/QC complete	YES
Date approved	2009-06-04

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

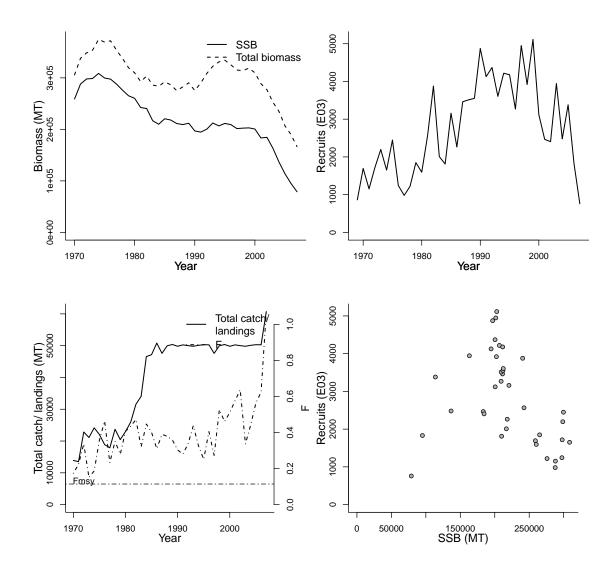
secondary LME

tertiary LME

primary LME

FJ				<i>j</i>			
-98 - Atlantic High Seas 26 - Mediterranean Sea na							
Parameter	Value	Units					
SCD VCE vm	4	****	Referer	ice points			
SSB-AGE-yr	_	yr	Parameter	Value	Units		
SSB-SEX-sex	0	sex					
REC-AGE-yr	1	yr	Fmsy-1/T (F)	0.1141685	1/T		
F-AGE-yr-yr	1-10	yr-yr	Fcurrent-1/T (F)	1.071	1/T		
A50-yr	4	yr	MSY-MT (TB)	49313.8	MT		
L50-cm	115	cm	Bmsy-MT (TB)	495914.5	MT		
M-1/yr	AVAILABLE	1/yr	TB_{2007}/B_{msy}	0.336			
TB-AGE-yr			F_{2007}/F_{msy}	9.381			
M							

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1970	1969	1970	1970	1970			
Maximum year	2007	2007	2007	2007	2007			
Time series minimum	78899	758.519	0.15	166431.7	13510.5			
Time series maximum	308609	5114.56	1.071	374650.16	60714.66			
Units	MT	E03	1/T	MT	MT			



Assessment of Western Atlantic atlantic bluefin

tuna (*Thunnus thynnus*)
Assessment ID:ICCAT-ATBTUNAWATL-1969-2007-WORM
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/23

Area ID: multinational-ICCAT-WATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Con-
	servation of Atlantic Tunas
Assessment authors	Anon.
Assessment method	Virtual Population Analysis
Publication year	NULL
Timeseries span	1969-2007
Document	2008-BFT-STOCK-ASSESS-REP.pdf (pdf
	in database)
Recorder	WORM
Date entered	2008-11-14
Date last loaded	2009-06-04
QA/QC complete	YES
Date approved	2009-06-04

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

primary 1	LME		secondary LME	tertiary LME	_
-98 - Atla	antic Hig	gh Seas	na	na	_
				nce points	_
			Parameter	Value	Units
Parameter	Value	Units	Flim-1/T (F)	0.15	1/T
SSB-AGE-yr	8	yr	Fmax-1/yr (F)	0.19	1/yr
SSB-SEX-sex	0	sex	Fmsy-1/T (F)	0.15	1/T
REC-AGE-yr	1	yr	Fcurrent-1/T (F)	0.19	1/T
F-AGE-yr-yr	1-10	yr-yr	NATMORT-1/yr ((M) 0.14	1/yr
A50-yr	8	yr	SSBmsy-MT (SSE	3) 15148	MT
L50-cm	190	cm	MSY-MT (TB)	2851.9	MT
M-1/yr	0.14	1/yr	Bmsy-MT (TB)	15148	MT
NATMORT-1/yr	0.14	1/yr	Brebuild-MT (TB)	15148	MT
TB-AGE-yr			F0.1-1/yr (F)	0.08	1/yr
M			F_{2006}/F_{lim}	1.327	
-			F_{2006}/F_{msy}	1.327	
			SSB_{2007}/SSB_{msy}	0.574	

Time series minima and maxima								
SSB R F TB Catch								
Minimum year	1970	1969	1970		1970			
Maximum year	2007	2006	2006		2007			
Time series minimum	6511	9.486	0.094		1458			
Time series maximum	49482	481.004	1.183		6407			
Units	MT	E03	1/T		MT			

