

Dear Boris,

Thank you sincerely for entering assessments into the Myers II database. Your assessments have been entered and we now wish to quality assure/quality control (QA/QC) these data for a release version of the database. Please use the following steps 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 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 designation for your stock (unless it is a high seas stock). Please enter a primary and secondary and tertiary LME (if they exist) in the issue you submit (see below). A map of the LMEs is provided overleaf.

### **QA/QC submission process**

If you submitted assessments via the RAM Legacy site, please log into :

<http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting>

Once you locate your assessment, please begin a new "Add response", on the page and title this response

QAQC: Assessment ID (located at the top of each assessment in this pdf)

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 in 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.



**MAP KEY:**

- Large Marine Ecosystems  
Watershed Bounds  
Political Borders



**Data Sources:**

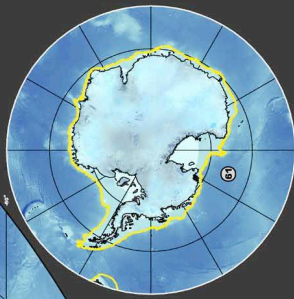
Bathymetry (2-minute) : Smith and Sandwell, 1997  
Bathymetry (5-minute) : NAVOCEANO, DSDIS  
Nebuchadnezzar (HYDRO 1k): USGS First Data Center  
Farnsworth Image, Political Boundaries : ESRI



**LARGE MARINE ECOSYSTEMS** are areas of the ocean characterized by distinct bathymetry, hydrography, productivity, and trophic interactions. They annually produce 95 percent of the world's fish catch. They are national and regional focal areas of a global effort to reduce the degradation of linked watersheds, marine resources, and coastal environments from pollution, habitat loss, and over-fishing.

**For More Information Visit: [www.edc.uri.edu/lme](http://www.edc.uri.edu/lme)**



SOUTH POLAR REGION

# Assessment of North Atlantic albacore tuna (*Thunnus alalunga*)

Assessment ID:ICCAT-ALBANATL-1930-2006-WORM

Area ID: USA-NMFS-NATL

General assessment details.

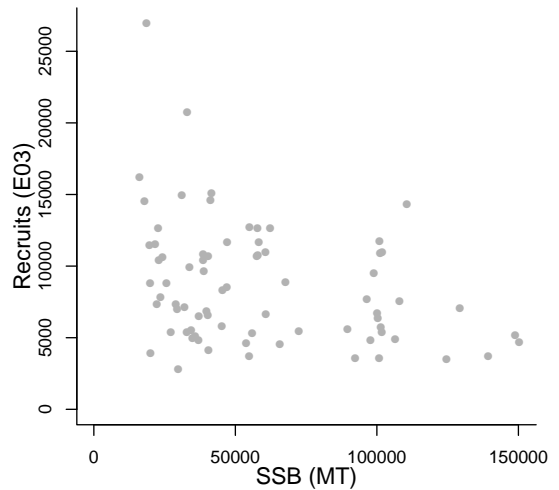
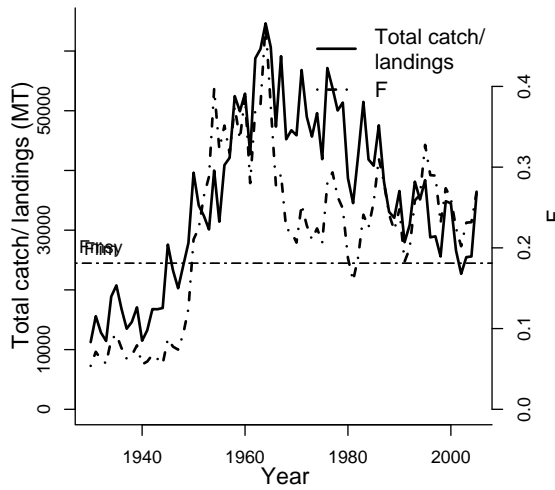
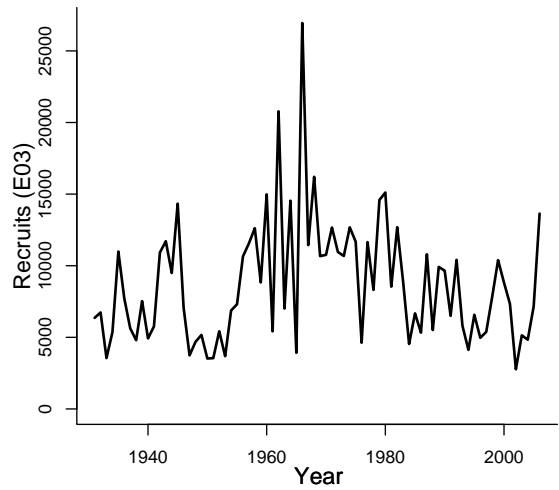
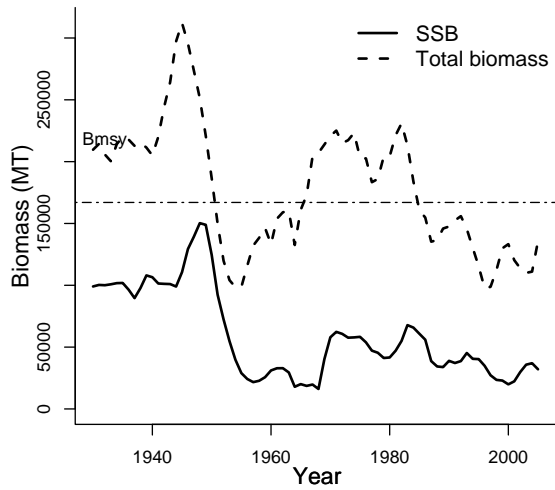
Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anon.
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1930-2006
Document	2007 ALB STOCK ASSESS REP.pdf (pdf not in database)
Recorder	WORM
Date entered	2009-03-10

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
A50-yr	5	yr	F <sub>lim</sub> -1/T (F)	0.181	1/T
L50-cm	90	cm	F <sub>msy</sub> -1/T (F)	0.181	1/T
NATMORT-1/yr	0.3	1/yr	F <sub>current</sub> -1/T (F)	0.272	1/T
REC-AGE			NATMORT-1/yr (M)	0.3	1/yr
SSB-AGE-yr			MSY-MT (TB)	30230	MT
TB-AGE-yr			B <sub>msy</sub> -MT (TB)	167000	MT
F-AGE-yr			$F_{2005}/F_{lim}$	1.490	
M			$TB_{2005}/B_{msy}$	0.813	
MORATOR-yr-yr			$F_{2005}/F_{msy}$	1.490	
LME					



Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1930	1931	1930	1930	1930
Maximum year	2005	2006	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 Western Atlantic atlantic bluefin tuna (*Thunnus thynnus*)

Assessment ID:ICCAT-ATBTUNAWATL-1970-2008-WORM

Area ID: USA-NMFS-WATL

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	NULL
Timeseries span	1970-2008
Document	2008.BFT_STOCK_ASSESS_REP.pdf (pdf not in database)
Recorder	WORM
Date entered	2009-03-10

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

Parameter	Value	Units	Reference points		
			Parameter	Value	Units
A50-yr	8	yr	Flim-1/T (F)	0.15	1/T
L50-cm	190	cm	Fmax-1/yr (F)	0.19	1/yr
M-1/yr	0.14	1/yr	Fmsy-1/T (F)	0.15	1/T
NATMORT-1/yr	0.14	1/yr	Fcurrent-1/T (F)	0.19	1/T
REC-AGE			NATMORT-1/yr (M)	0.14	1/yr
SSB-AGE-yr			SSBmsy-MT (SSB)	15148	MT
TB-AGE-yr			MSY-MT (TB)	2851.9	MT
F-AGE-yr			Bmsy-MT (TB)	15148	MT
M			Brebuild-MT (SSB)	15148	MT
MORATOR-yr-yr			$F_{2007}/F_{lim}$	1.473	
LME			$F_{2007}/F_{msy}$	1.473	
			$SSB_{2007}/SSB_{msy}$	0.574	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1971	1970		1970
Maximum year	2007	2008	2007		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

