

Dear Olaf,

Thank you sincerely for submitting 21 assessments to 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 follow 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 (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 overleaf.

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 the 'Add response' button on the page. 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 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. 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.

MAP KEY:

- Large Marine Ecosystems
Watershed Bounds
Political Borders



Data Sources:

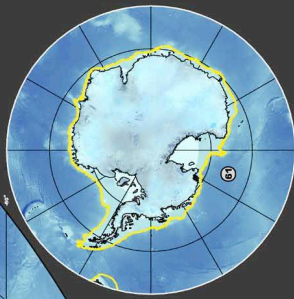
Bathymetry (2-minute) : Smith and Sandwell, 1997
Bathymetry (5-minute) : NAVOCEANO, DSDIS
Nebuchadnezzar (HYDRO 1k): USGS First Data Center
Farnsworth Image, Political Boundaries : ESRI



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



SOUTH POLAR REGION

Assessment of Eastern Pacific bigeye tuna (*Thunnus obesus*)

Assessment ID:IATTC-BIGEYEEPAC-1975-2007-JENSEN

Area ID: multinational-IATTC-EPAC

General assessment details.

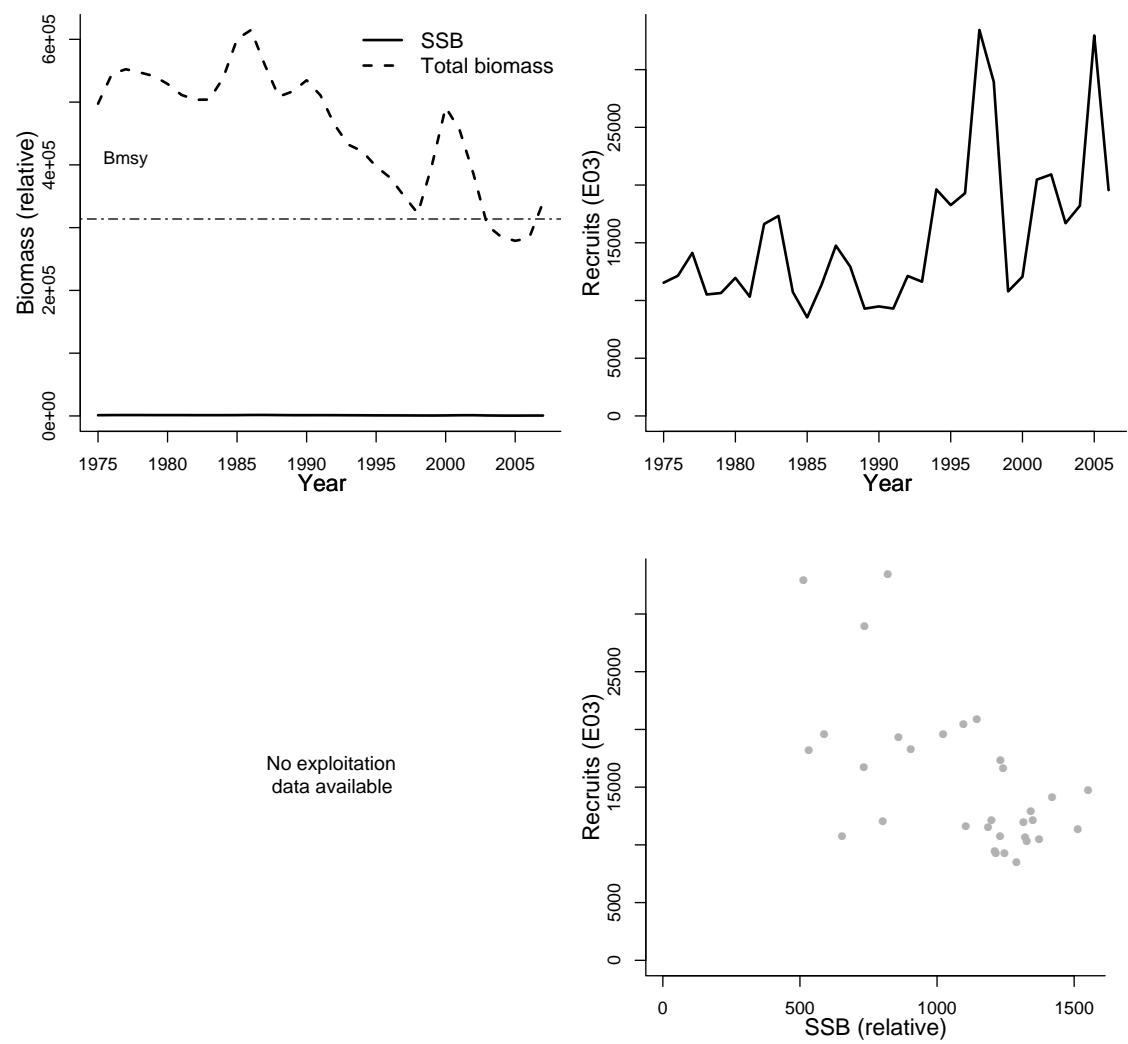
Detail	Value
Management body	IATTC
Assessment group	Inter-American Tropical Tuna Commission
Assessment authors	Alexandre Aires-da-Silva
Assessment method	Stock Synthesis v2.0 model
Publication year	2007
Timeseries span	1975-2007
Document	JENSEN.BETEPAC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	313767.00	MT
MSY-MT (TB)	92758.00	MT
TB_{2007}/B_{msy}	1.084	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975		1975	
Maximum year	2007	2006		2007	
Time series minimum	513	8536		278962	
Time series maximum	1551	33434		614898	
Units	relative	E03		MT	



Assessment of Northeast Pacific yellowfin tuna (*Thunnus albacares*)

Assessment ID:IATTC-YFINEPAC-1975-2007-JENSEN

Area ID: multinational-IATTC-NEPAC

General assessment details.

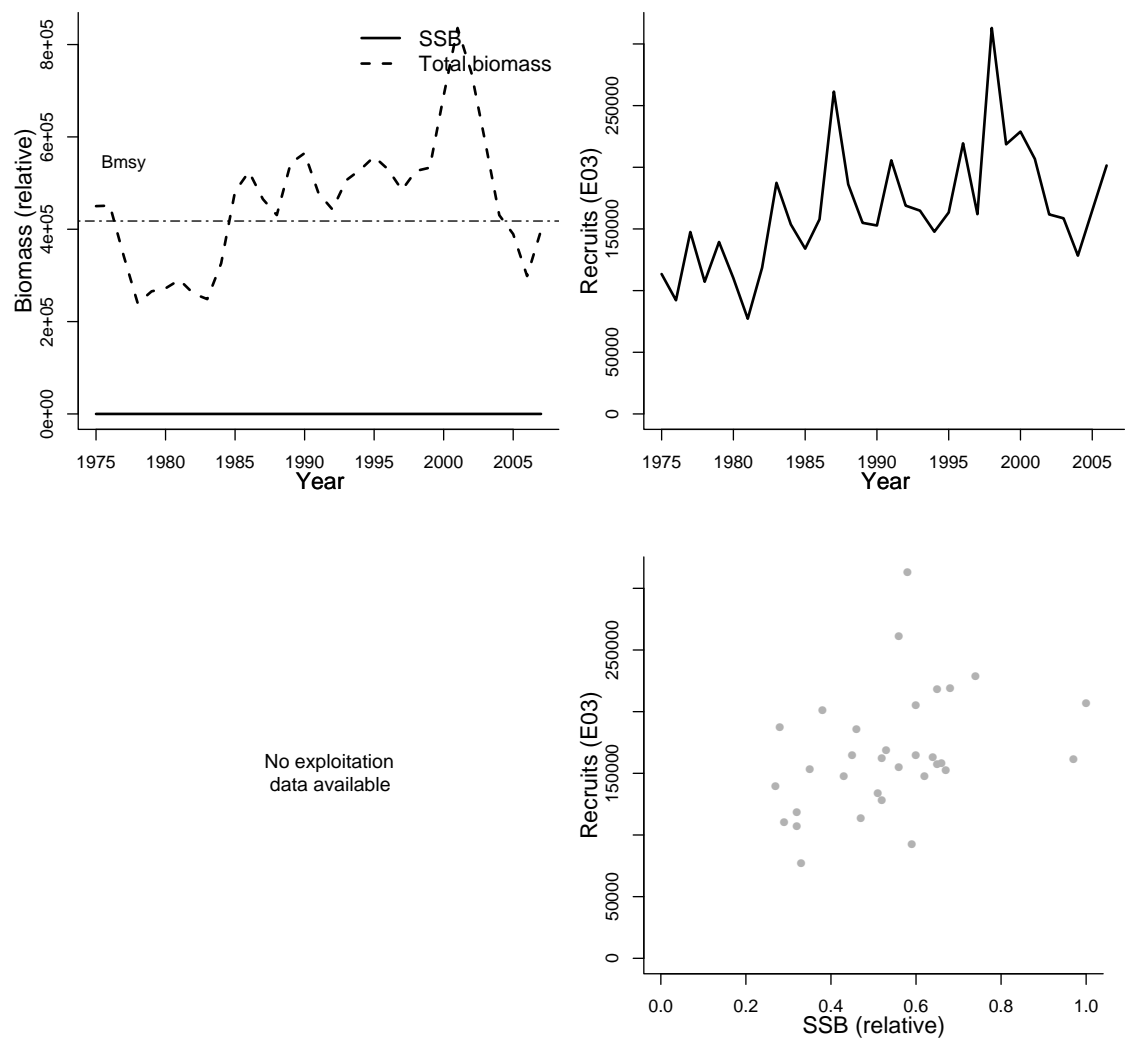
Detail	Value
Management body	IATTC
Assessment group	Inter-American Tropical Tuna Commission
Assessment authors	Maunder, Mark
Assessment method	IATTC Statistical Catch at Age and Length Assessment
Publication year	2007
Timeseries span	1975-2007
Document	SAR8-YFT-ENG.pdf.pdf (pdf not in database)
Recorder	JENSEN
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
REC-AGE-yr	0.50	yr
TB-AGE-yr	1.50	yr
M-1/yr	0.25	1/yr
SSB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	417813.00	MT
TB_{2007}/B_{msy}	0.951	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975		1975	
Maximum year	2007	2006		2007	
Time series minimum	0.27	77206		239493	
Time series maximum	1	312948		835924	
Units	relative	E03		MT	



Assessment of Mediterranean Sea swordfish (*Xiphias gladius*)

Assessment ID:ICCAT-SWORDMED-1968-2006-JENSEN

Area ID: multinational-ICCAT-MED

General assessment details.

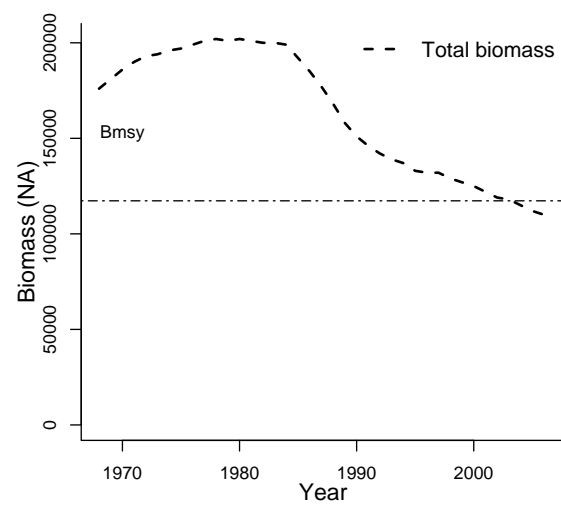
Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	NULL
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1968-2006
Document	ICCAT-Mediterranean-Xiphiasgladius-2007.pdf.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

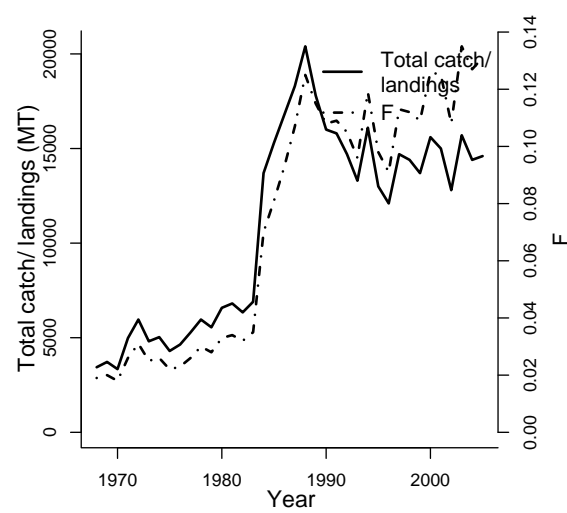
Parameter	Value	Units
L50-cm	142	cm
M-1/yr	0.2	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	117300	MT
Umsy-ratio (U)	0.1035	ratio
TB_{2006}/B_{msy}	0.938	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1968	1968	1968
Maximum year			2005	2006	2005
Time series minimum			0.018	110000	3340
Time series maximum			0.135	202000	20400
Units			ratio	MT	MT



No recruitment
data available



No SSB–recruit
data available

Assessment of Gulf of Mexico gag (*Mycteroperca microlepis*)

Assessment ID:SEFSC-GAGGM-1963-2004-JENSEN

Area ID: USA-NMFS-GM

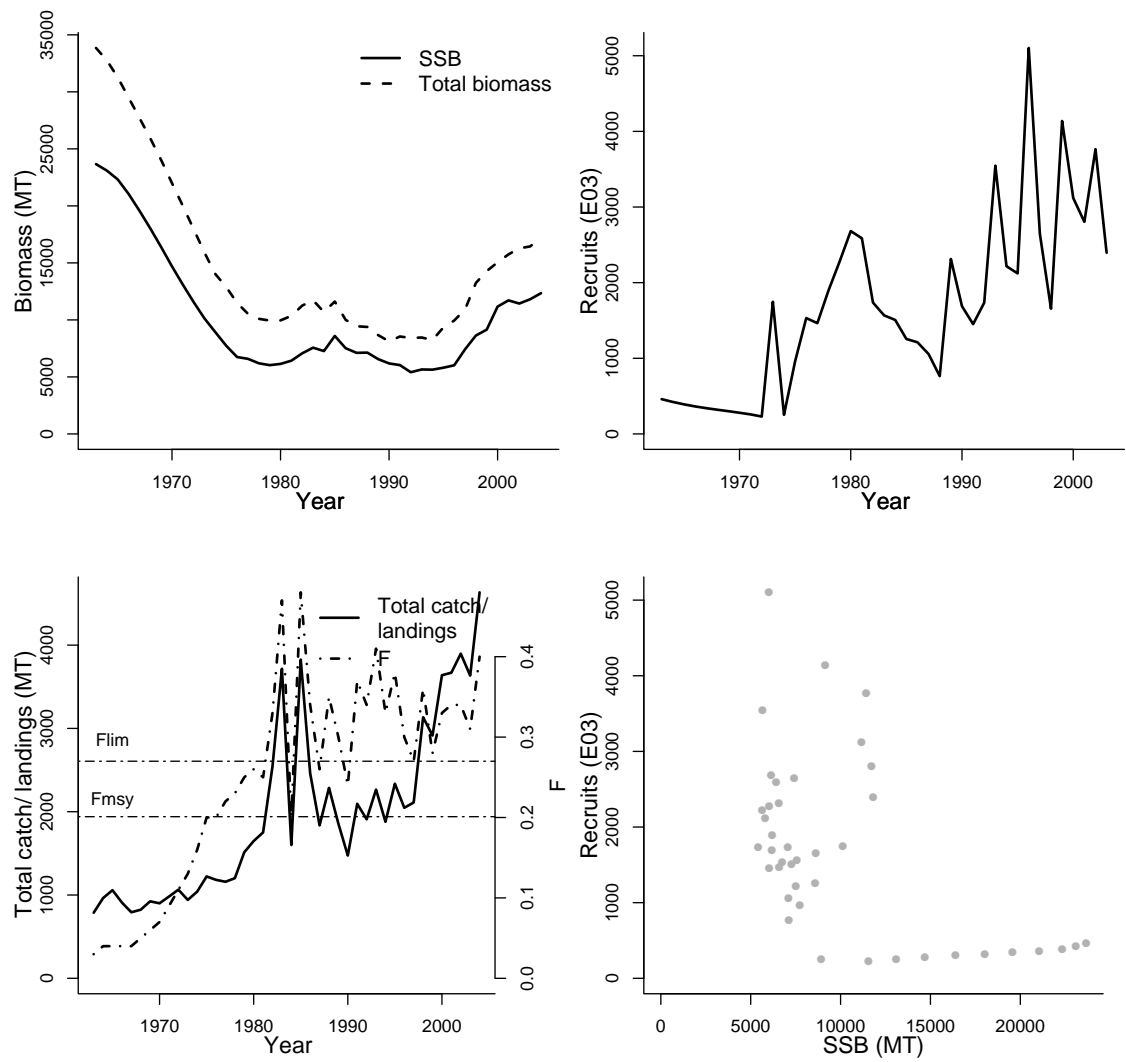
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Unknown
Publication year	2007
Timeseries span	1963-2004
Document	JENSEN_GAGGM.2007.pdf (pdf not in database)
Recorder	JENSEN
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	3.5	yr	F0.1-1/yr (F)	0.129	1/yr
M-1/T	AVAILABLE	1/T	Flim-1/yr (F)	0.27	1/yr
REC-AGE			Fmax-1/yr (F)	0.201	1/yr
SSB-AGE-yr			Fmsy-1/T (F)	0.201	1/T
TB-AGE-yr			MSY-MT (TB)	2,242	MT
F-AGE-yr			F_{2004}/F_{lim}	1.481	
M			F_{2004}/F_{msy}	1.990	
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963	1963	1963	1963	1963
Maximum year	2004	2003	2004	2004	2004
Time series minimum	5410.9	229.988	0.03	8116.58	787.44
Time series maximum	23661.63	5102.58	0.48	33847.49	4633.44
Units	MT	E03	1/yr	MT	MT



Assessment of Southern Atlantic coast gag (*Mycteroperca microlepis*)

Assessment ID:SEFSC-GAGSATLC-1962-2005-JENSEN

Area ID: USA-NMFS-SATLC

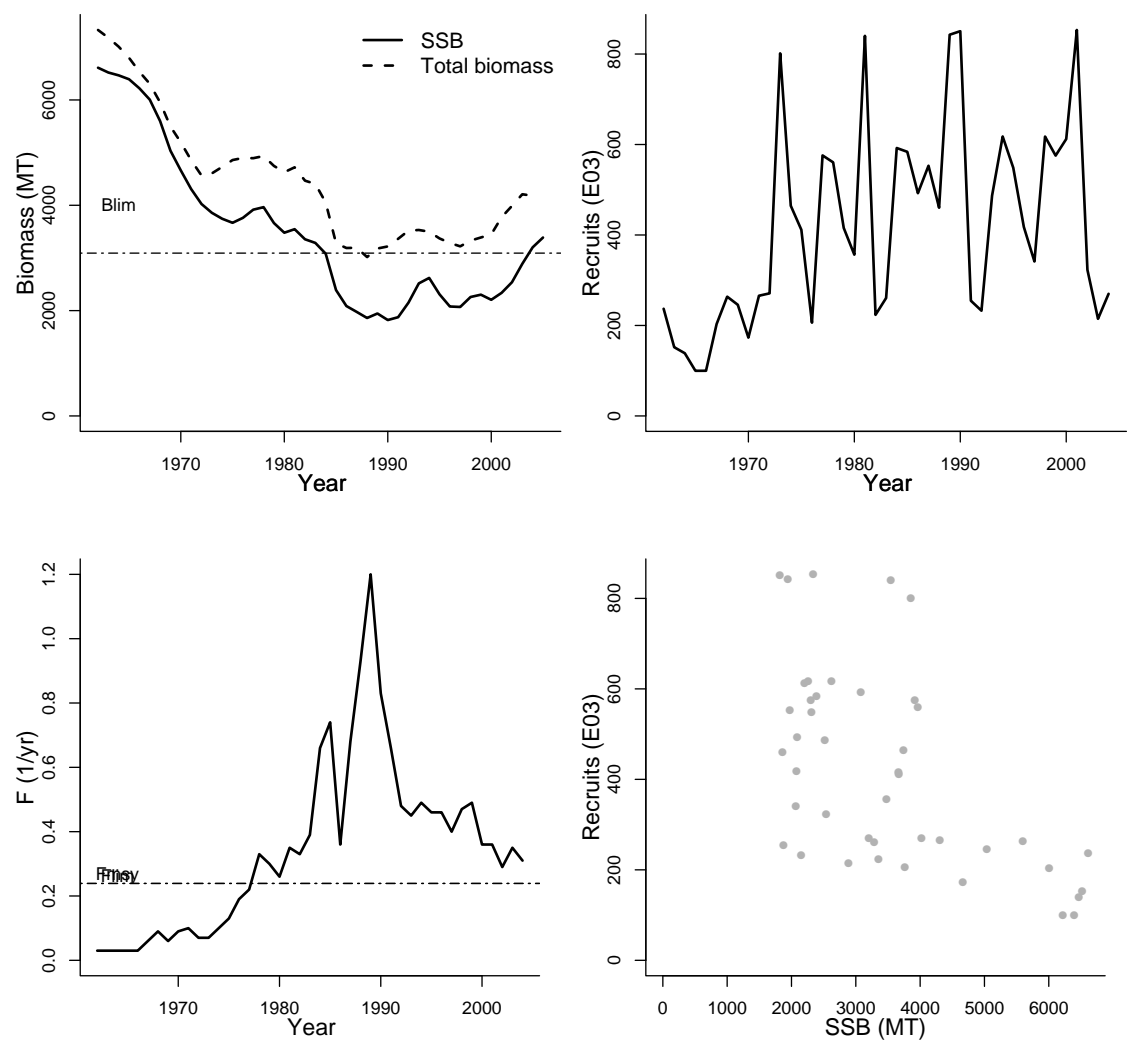
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Unknown
Publication year	2006
Timeseries span	1962-2005
Document	JENSEN_GAGSATLC_2006.pdf (pdf not in database)
Recorder	JENSEN
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
REC-AGE			Blim-MT (SSB)	3091.456276	MT
SSB-AGE-yr			Flim-1/yr (F)	0.239	1/yr
TB-AGE-yr			Fmsy-1/T (F)	0.239	1/T
F-AGE-yr			MSY-MT (TB)	562	MT
M			SSB_{2005}/B_{lim}	1.096	
A50-yr			F_{2004}/F_{lim}	1.297	
L50-cm			F_{2004}/F_{msy}	1.297	
MORATOR-yr-yr					
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1962	1962	1962	1962	
Maximum year	2005	2004	2004	2004	
Time series minimum	1820.98	99.7721	0.03	3016.8	
Time series maximum	6611.83	853.149	1.2	7328.64	
Units	MT	E03	1/yr	MT	



Assessment of Gulf of Mexico greater amberjack (*Seriola dumerili*)

Assessment ID:SEFSC-GRAMBERGM-1986-2004-JENSEN

Area ID: USA-NMFS-GM

General assessment details.

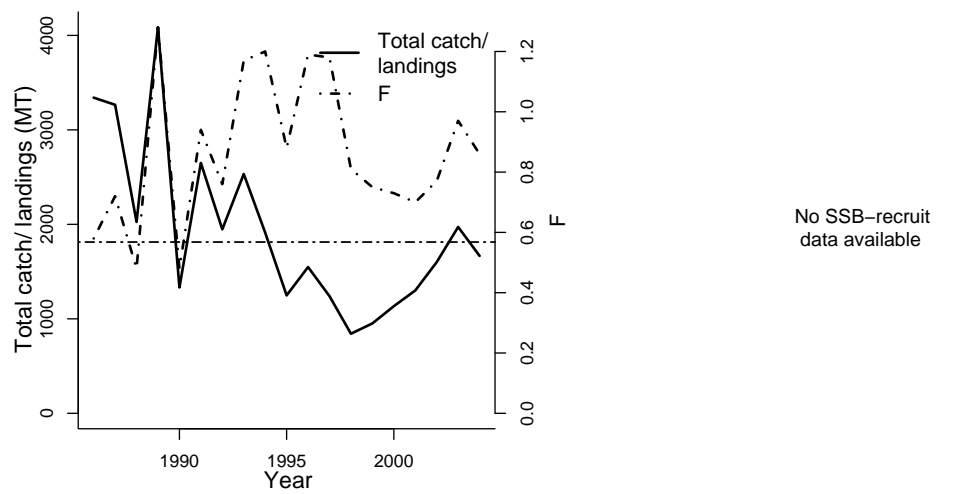
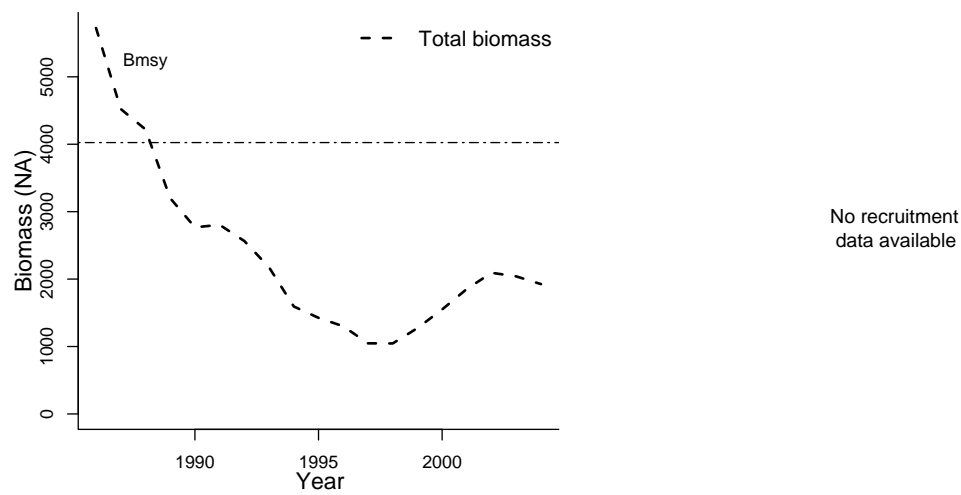
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Surplus production model
Publication year	2006
Timeseries span	1986-2004
Document	JENSEN_GRAMBERGM.2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	4024.721816	MT
Flim-1/yr (F)	0.5679	1/yr
Fmsy-1/T (F)	0.5679	1/T
F_{2004}/F_{lim}	1.514	
TB_{2004}/B_{msy}	0.478	
F_{2004}/F_{msy}	1.514	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1986	1986	1986
Maximum year			2004	2004	2004
Time series minimum			0.48	1045.53	842.32
Time series maximum			1.28	5724.33	4085.05
Units			1/yr	MT	MT



Assessment of Southern Atlantic coast greater amberjack (*Seriola dumerili*)

Assessment ID:SEFSC-GRAMBERSATLC-1946-2006-JENSEN

Area ID: USA-NMFS-SATLC

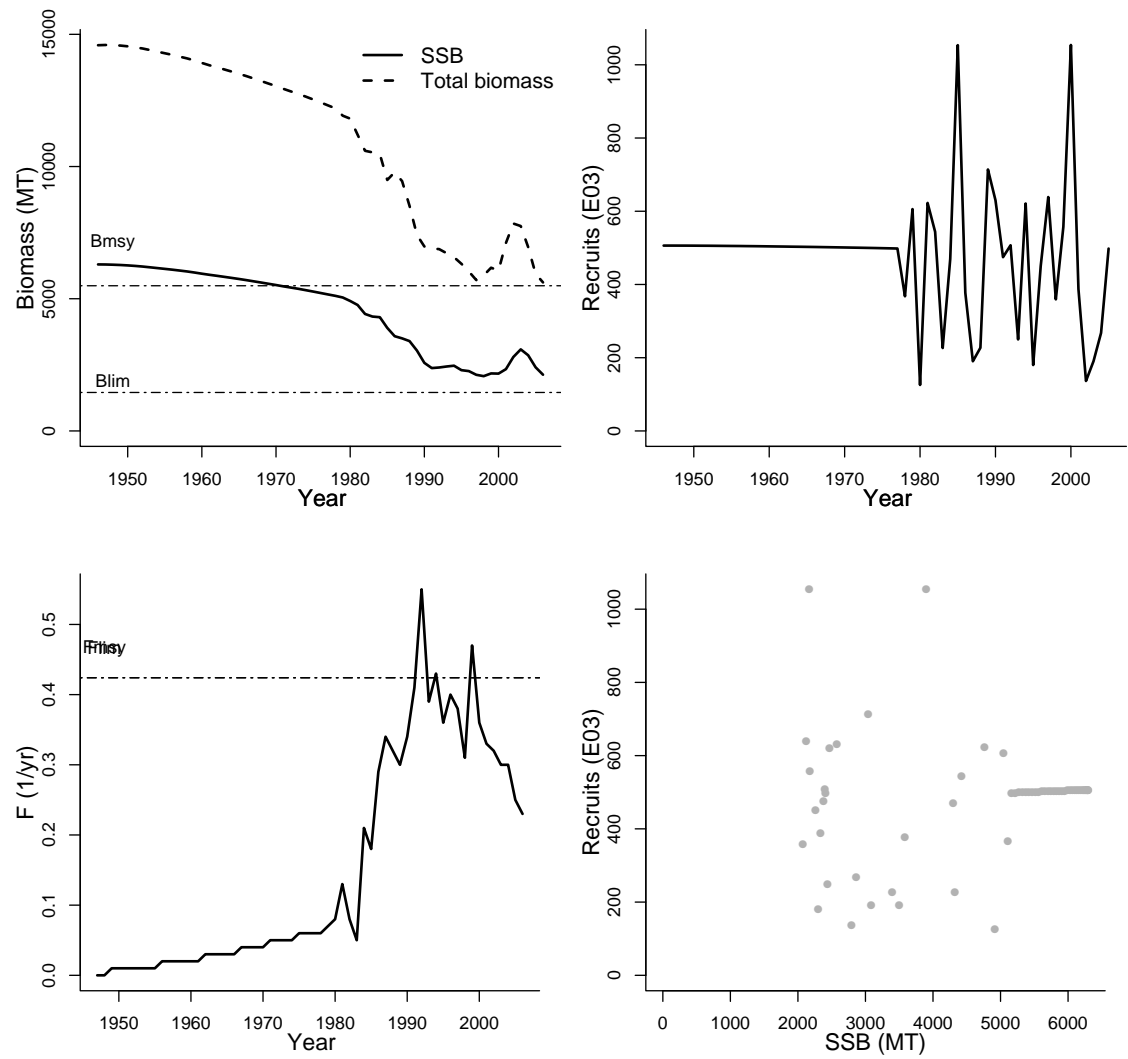
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1946-2006
Document	JENSEN_GRAMBERSATLC_2008.pdf (pdf not in database)
Recorder	JENSEN
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
M-1/yr	0.25	1/yr	Blim-MT (SSB)	1455	MT
REC-AGE			Bmsy-MT (TB)	5491	MT
SSB-AGE-yr			Flim-1/yr (F)	0.424	1/yr
TB-AGE-yr			Fmsy-1/T (F)	0.424	1/T
F-AGE-yr			MSY-MT (TB)	2,005	MT
M			SSB_{2006}/B_{lim}	1.461	
A50-yr			F_{2006}/F_{lim}	0.542	
L50-cm			TB_{2006}/B_{msy}	1.023	
MORATOR-yr-yr			F_{2006}/F_{msy}	0.542	
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1946	1946	1947	1946	
Maximum year	2006	2005	2006	2006	
Time series minimum	2071.47	125.609	0	5616.53	
Time series maximum	6297.2	1054.1	0.55	14597.1	
Units	MT	E03	1/yr	MT	



Assessment of Gulf of Mexico gray triggerfish (*Balistes capriscus*)

Assessment ID:SEFSC-GTRIGGM-1981-2004-JENSEN

Area ID: USA-NMFS-GM

General assessment details.

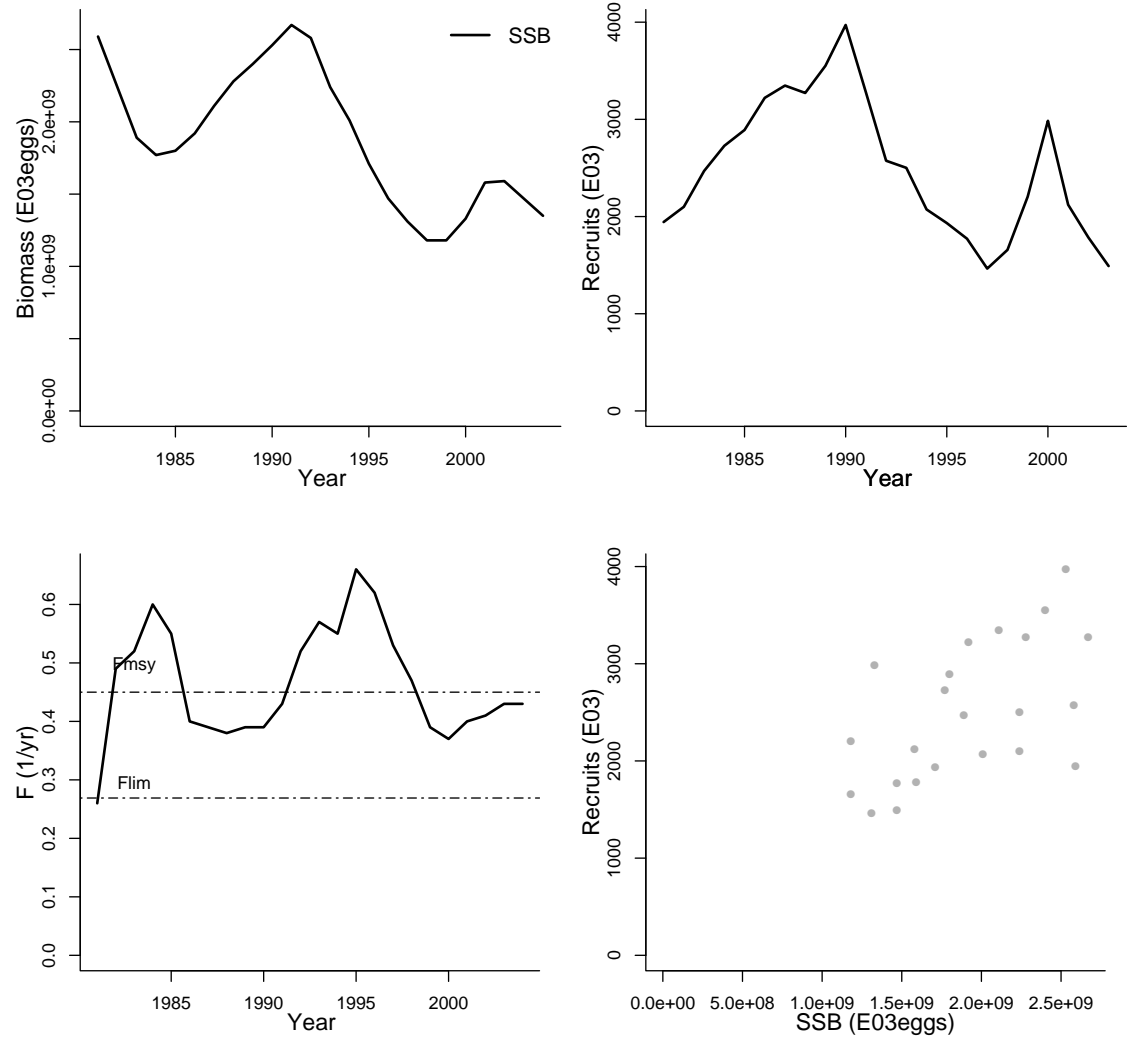
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Age-structured surplus production model
Publication year	2006
Timeseries span	1981-2004
Document	JENSEN_GTRIGGM_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
M-1/yr	0.27	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Flim-1/yr (F)	0.269	1/yr
Fmsy-1/T (F)	0.45	1/T
MSY-MT (TB)	743	MT
F_{2004}/F_{lim}	1.599	
F_{2004}/F_{msy}	0.956	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1981	1981		
Maximum year	2004	2003	2004		
Time series minimum	1180000000	1464.6	0.26		
Time series maximum	2670000000	3971.1	0.66		
Units	E03eggs	E03	1/yr		



Assessment of Gulf of Mexico king mackerel (*Scomberomorus cavalla*)

Assessment ID:SEFSC-KMACKGM-1992-2001-JENSEN

Area ID: USA-NMFS-GM

General assessment details.

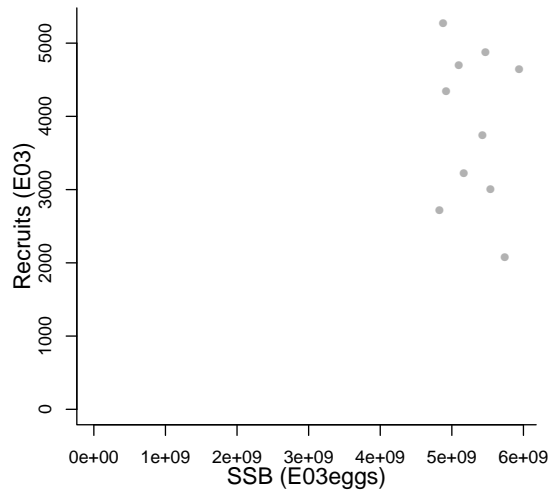
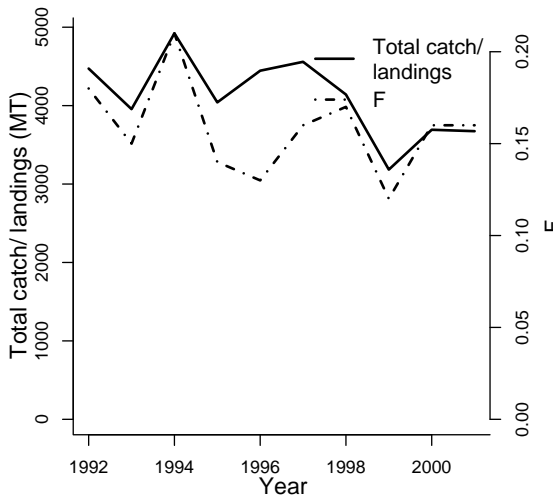
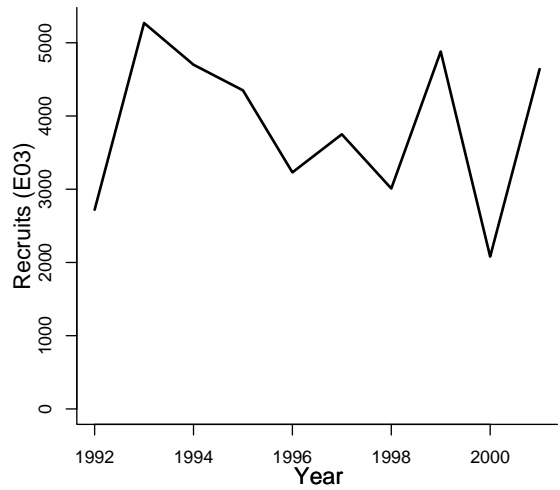
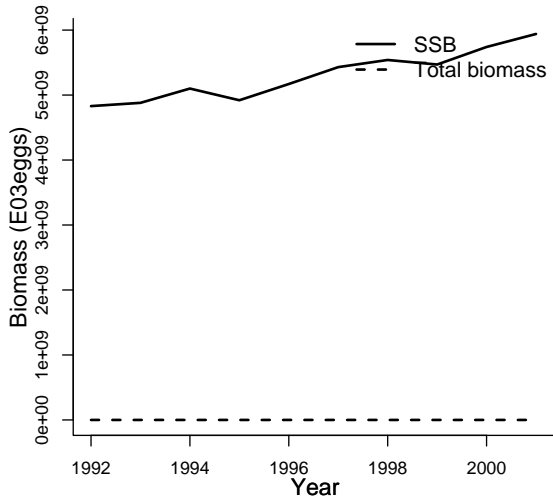
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Virtual Population Analysis
Publication year	2004
Timeseries span	1992-2001
Document	JENSEN_KMACKGMSATLC.2004.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
F _{msy} -1/T (F)	0.269	1/T
MSY-MT (TB)	5,179	MT
F_{2001}/F_{msy}	0.595	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1992	1992	1992	1992	1992
Maximum year	2001	2001	2001	2001	2001
Time series minimum	4830000000	2080	0.12	31433.93	3184.22
Time series maximum	5940000000	5270	0.21	36033.35	4921.47
Units	E03eggs	E03	1/yr	MT	MT



Assessment of Southern Atlantic coast king mackerel (*Scomberomorus cavalla*)

Assessment ID:SEFSC-KMACKSATLC-1981-2001-JENSEN

Area ID: USA-NMFS-SATLC

General assessment details.

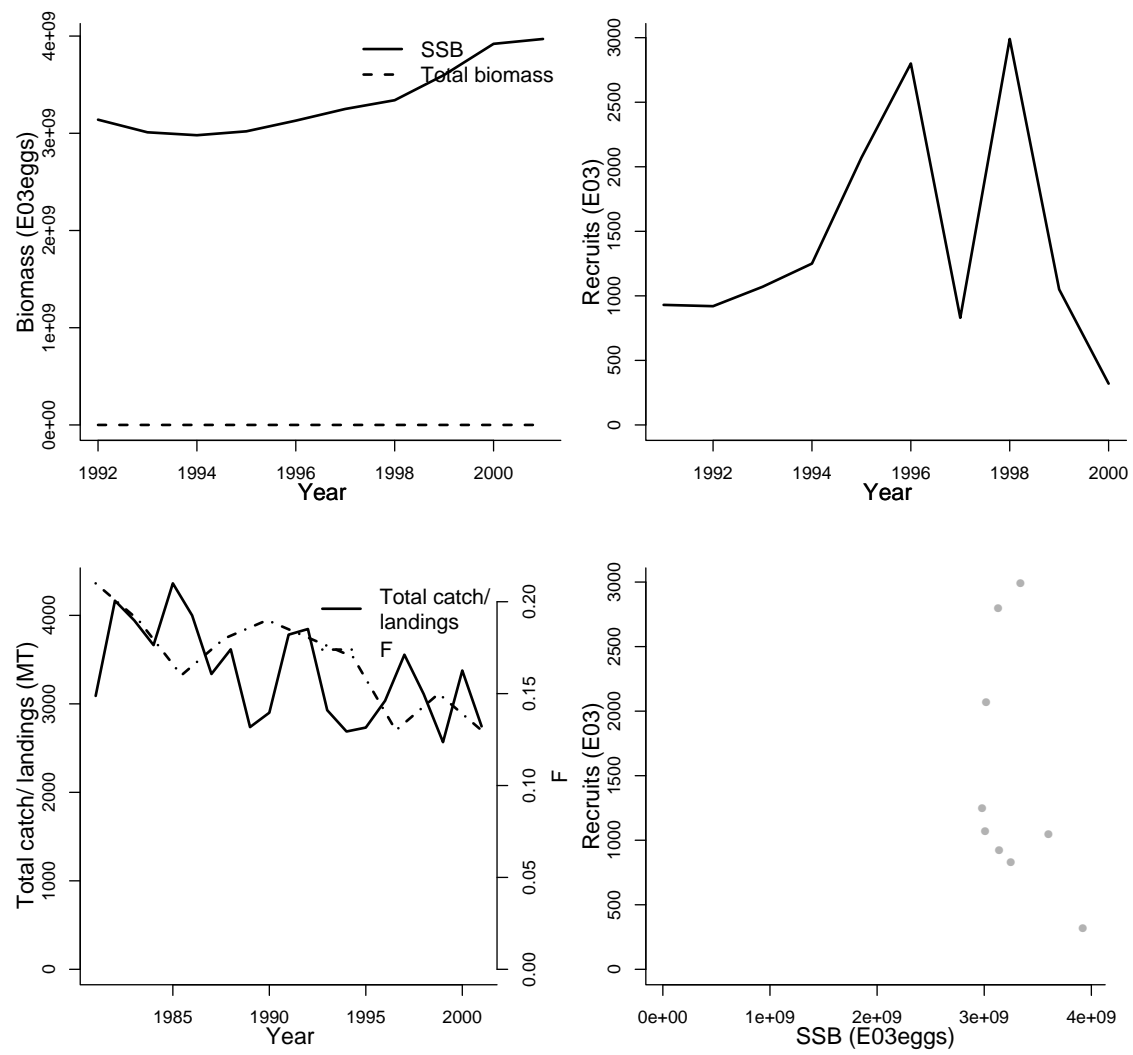
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Virtual Population Analysis
Publication year	2004
Timeseries span	1981-2001
Document	JENSEN_KMACKGMSATLC.2004.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
M-1/yr	0.15	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
F _{msy} -1/T (F)	0.29	1/T
MSY-MT (TB)	2,576	MT
F_{2001}/F_{msy}	0.448	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1992	1991	1992	1992	1981
Maximum year	2001	2000	2001	2001	2001
Time series minimum	2980000000	320	0.13	14782.56	2567.33
Time series maximum	3970000000	2990	0.21	19763	4361.74
Units	E03eggs	E03	1/yr	MT	MT



Assessment of Southern Atlantic coast and Gulf of Mexico mutton snapper (*Lutjanus analis*)

Assessment ID:SEFSC-MUTSNAPSATLCGM-1981-2006-JENSEN

Area ID: USA-NMFS-SATLCGM

General assessment details.

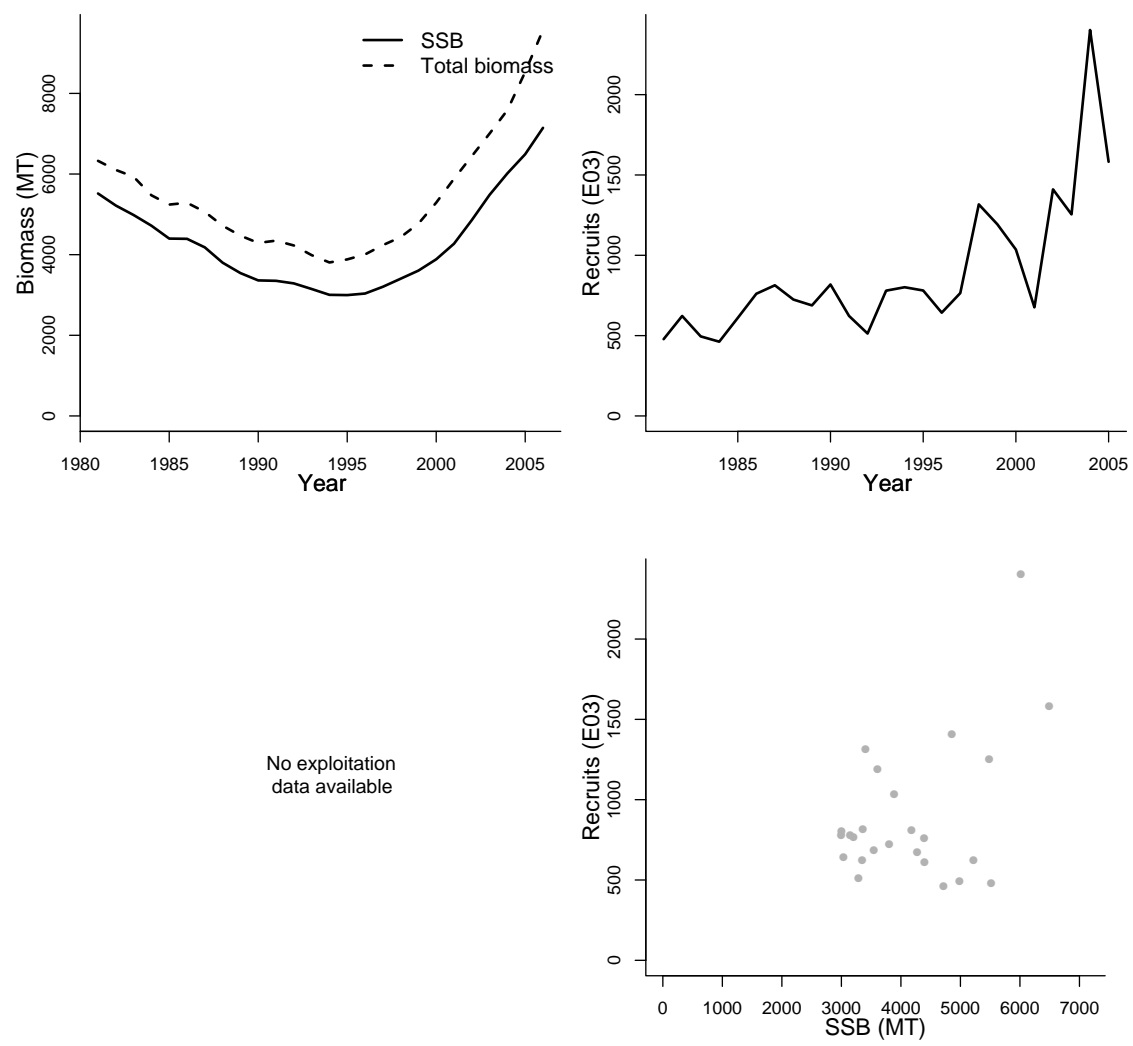
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1981-2006
Document	JENSEN_MUTSNAPSATLCGM.2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
A50-yr	3.7	yr
M-1/yr	0.11	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Fmsy-1/T (F)	0.340	1/T
MSY-MT (TB)	688	MT

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1981		1981	
Maximum year	2006	2005		2006	
Time series minimum	2997.36	462.157		3806.68	
Time series maximum	7145.87	2402.66		9573.19	
Units	MT	E03		MT	



Assessment of Southern Atlantic coast red porgy (*Pagrus pagrus*)

Assessment ID:SEFSC-RPORGYSATLC-1972-2005-JENSEN

Area ID: USA-NMFS-SATLC

General assessment details.

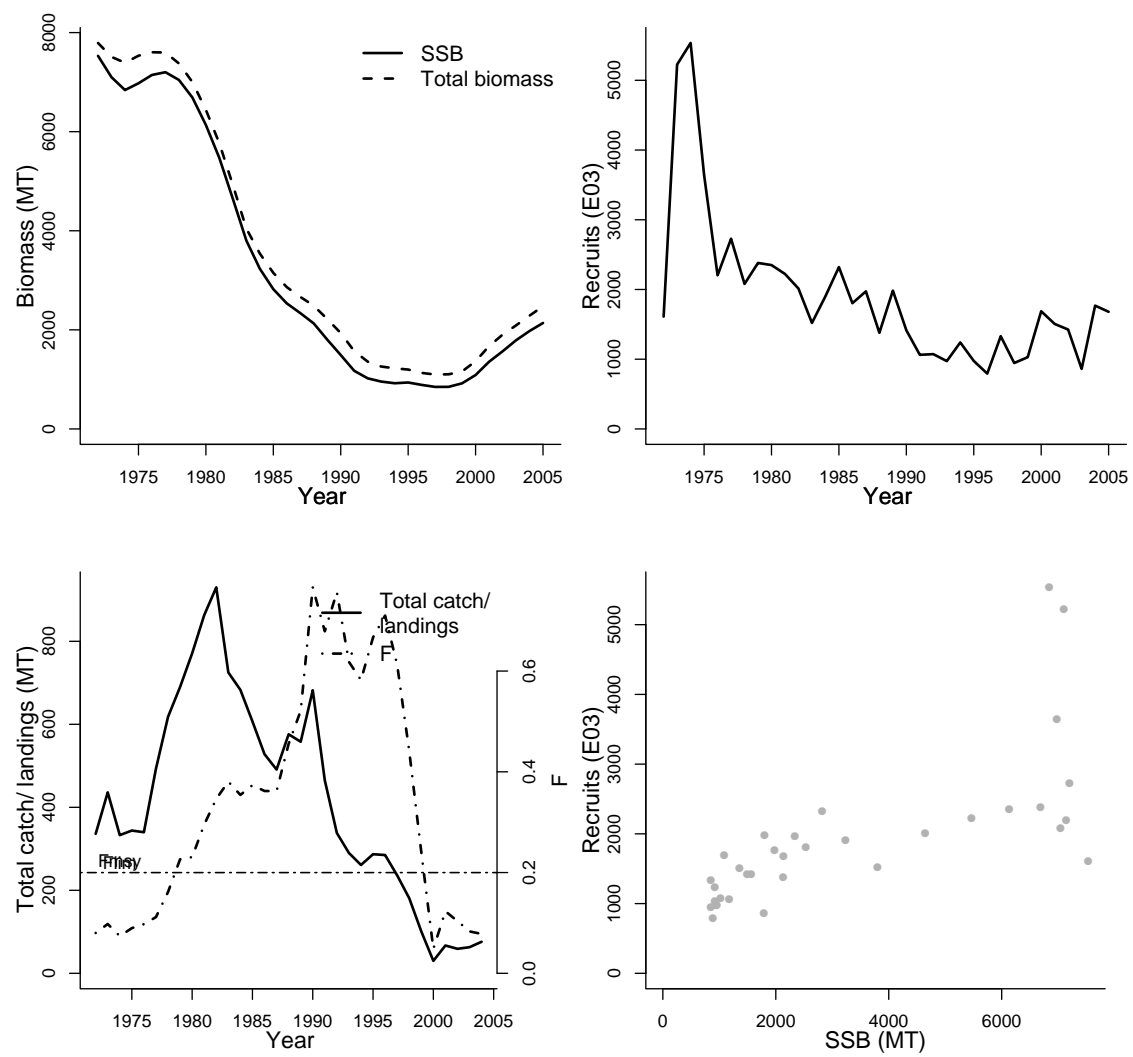
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2006
Timeseries span	1972-2005
Document	JENSEN_RPORGYSATLC_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
A50-yr	2	yr
M-1/T	0.225	1/T
MORATOR-yr-yr	1999-2000	yr-yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
LME		

Reference points		
Parameter	Value	Units
Blim-FemaleGonadMT	2507.9155	FemaleGonadMT
Flim-1/yr (F)	0.2	1/yr
Fmsy-1/T (F)	0.200	1/T
MORATOR-yr-yr	1999-2000	yr-yr
MSY-MT (TB)	283.81	MT
SSB_{2005}/B_{lim}	0.853	
F_{2004}/F_{lim}	0.391	
F_{2004}/F_{msy}	0.391	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2005	2005	2004	2005	2004
Time series minimum	848.386	793.722	0.04862	1097.46	30
Time series maximum	7530.42	5535.27	0.76616	7790.46	930
Units	MT	E03	1/yr	MT	MT



Assessment of Gulf of Mexico red grouper (*Epinephelus morio*)

Assessment ID:SEFSC-RSNAPGM-1986-2005-JENSEN

Area ID: USA-NMFS-GM

General assessment details.

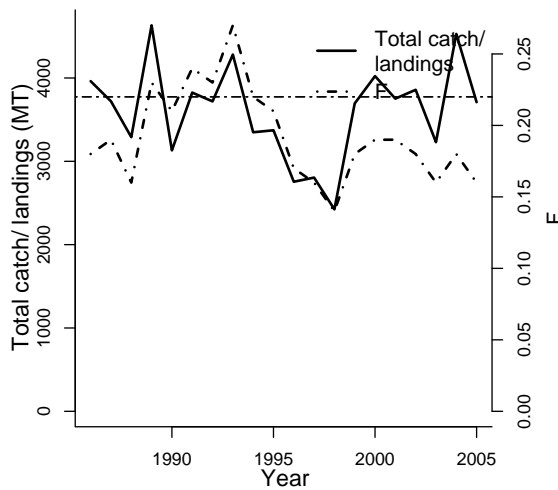
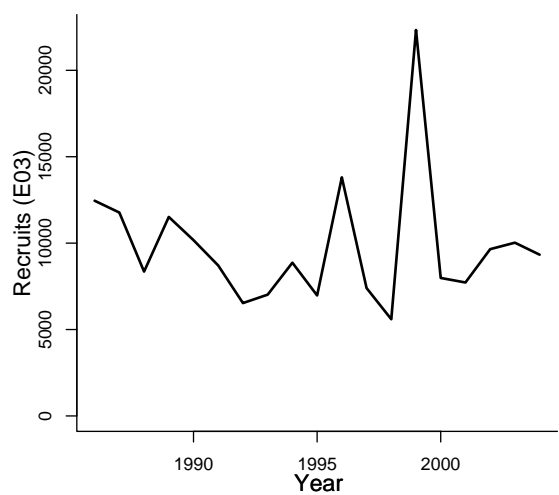
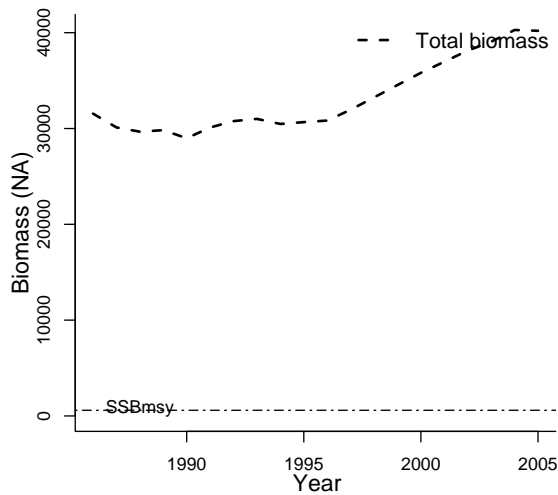
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Age Structured Assessment Program
Publication year	2006
Timeseries span	1986-2005
Document	JENSEN_RSNAPGM.2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
M-1/yr	0.14	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Blim-FemaleGonadMT	509	FemaleGonadMT
SSBmsy-MT (SSB)	591	MT
Flim-1/yr (F)	0.22	1/yr
Fmsy-1/T (F)	0.22	1/T
F_{2005}/F_{lim}	0.727	
F_{2005}/F_{msy}	0.727	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year		1986	1986	1986	1986
Maximum year		2004	2005	2005	2005
Time series minimum		5595.53	0.14	28984.4	2423.59
Time series maximum		22335	0.27	40284.12	4631.5
Units		E03	1/yr	MT	MT



No SSB–recruit
data available

Assessment of Southern Atlantic coast red snapper (*Lutjanus campechanus*)

Assessment ID:SEFSC-RSNAPSATLC-1945-2006-JENSEN

Area ID: USA-NMFS-SATLC

General assessment details.

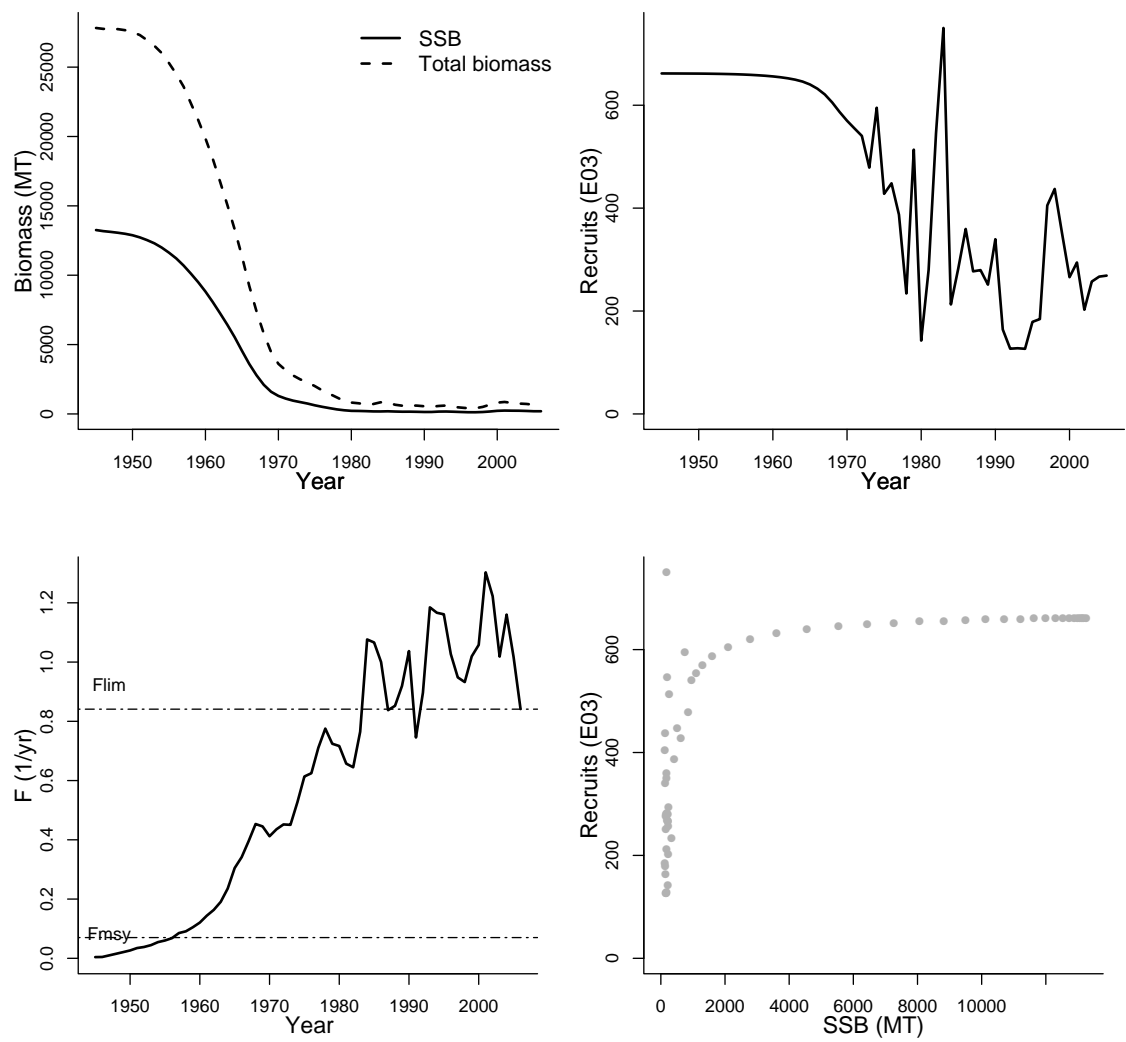
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1945-2006
Document	JENSEN_RSNAPSATLC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
M-1/yr	0.078	1/yr
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Blim-FemaleGonadMT	7275	FemaleGonadMT
Flim-1/yr (F)	0.841	1/yr
Fmsy-1/T (F)	0.07	1/T
MSY-MT (TB)	1,050	MT
SSB_{2006}/B_{lim}	0.027	
F_{2006}/F_{lim}	1.001	
F_{2006}/F_{msy}	12.021	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1945	1945	1945	1945	
Maximum year	2006	2005	2006	2006	
Time series minimum	121.502	126.576	0.00411	412.95	
Time series maximum	13256.2	750.12	1.30281	27822.6	
Units	MT	E03	1/yr	MT	



Assessment of Southern Atlantic coast spanish mackerel (*Scomberomorus maculatus*)

Assessment ID:SEFSC-SPANMACKSATLC-1950-2008-JENSEN

Area ID: USA-NMFS-SATLC

General assessment details.

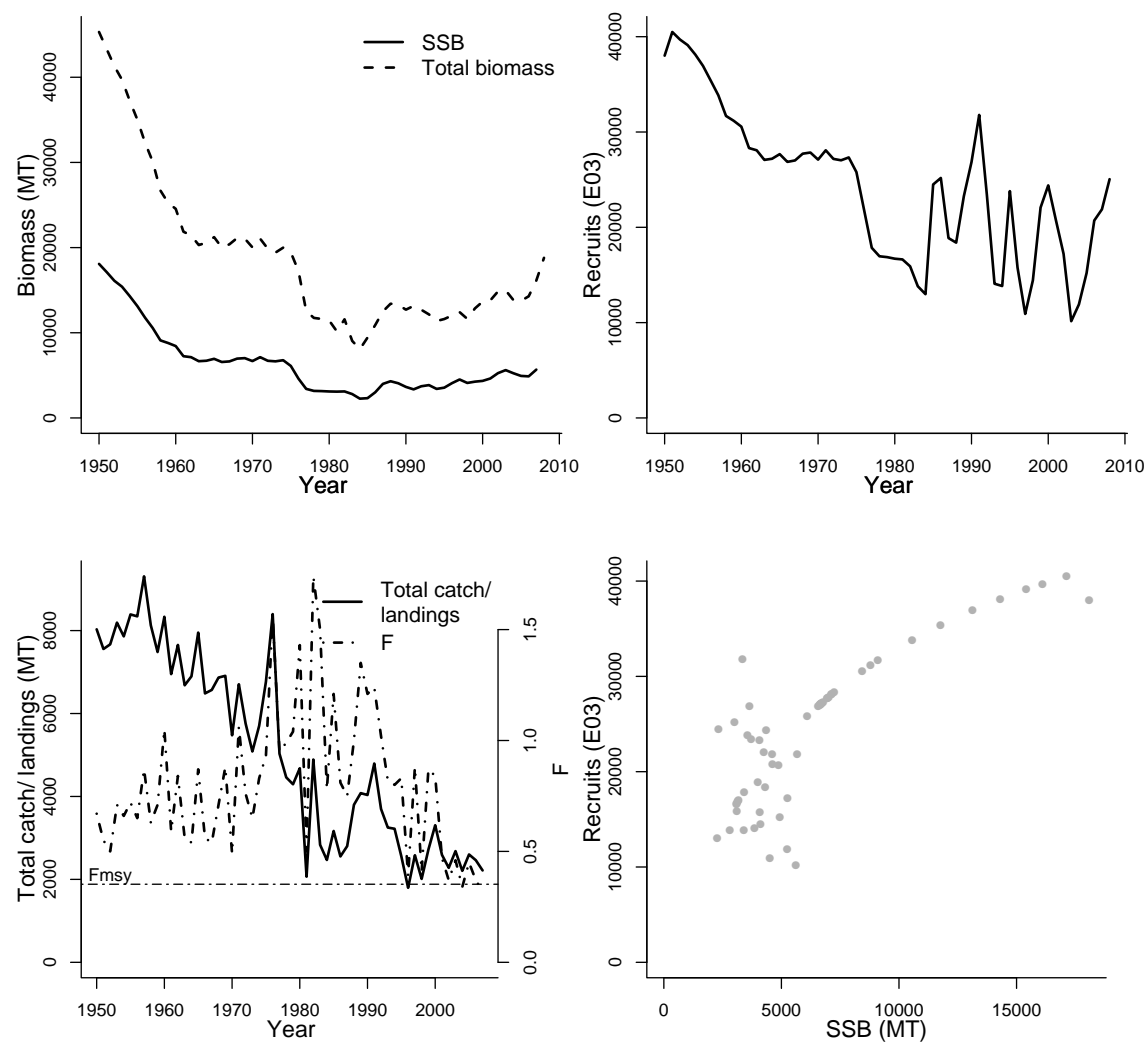
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Statistical catch-at-age model
Publication year	2008
Timeseries span	1950-2008
Document	JENSEN_SPANMACKSATLC_2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-10

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

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
F _{msy} -1/T (F)	0.352	1/T
MSY-MT (TB)	5941.60	MT
F_{2007}/F_{msy}	0.909	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1950	1950	1950	1950	1950
Maximum year	2007	2008	2007	2008	2007
Time series minimum	2263	10149.6	0.32	8074	1797.32
Time series maximum	18087	40494.5	1.74	45316	9308.03
Units	MT	E03	1/yr	MT	MT



Assessment of Gulf of Mexico vermilion snapper (*Rhomboplites aurorubens*)

Assessment ID:SEFSC-VSNAPGM-1981-2004-JENSEN

Area ID: USA-NMFS-GM

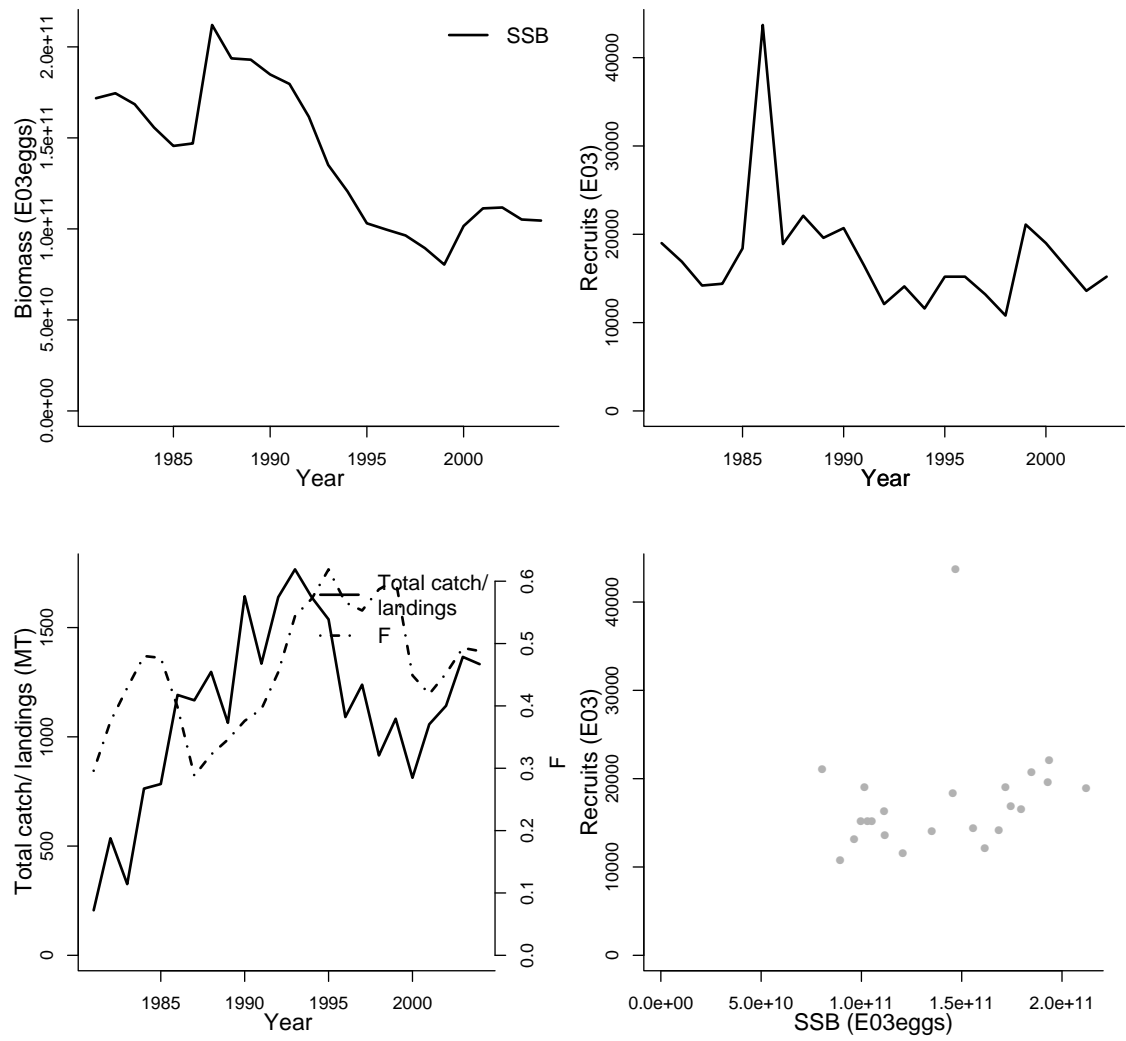
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	Age-structured surplus production model
Publication year	2006
Timeseries span	1981-2004
Document	JENSEN_VSNAPGM.2006.pdf (pdf not in database)
Recorder	JENSEN
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
M-1/T	AVAILABLE	1/T	Blim-E00eggs	7.14E+13	E00eggs
REC-AGE			Flim-1/yr (F)	0.79	1/yr
SSB-AGE-yr			Fmsy-1/T (F)	0.81	1/T
TB-AGE-yr			MSY-MT (TB)	3,375	MT
F-AGE-yr			SSB_{2004}/B_{lim}	0.001	
M			F_{2004}/F_{lim}	0.618	
A50-yr			F_{2004}/F_{msy}	0.602	
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981	1981	1981		1981
Maximum year	2004	2003	2004		2004
Time series minimum	80395000000	10800	0.288		206.23
Time series maximum	212030000000	43700	0.619		1766.47
Units	E03eggs	E03	1/yr		MT



Assessment of South Pacific Ocean albacore tuna (*Thunnus alalunga*)

Assessment ID:SPC-ALBASPAC-1959-2007-JENSEN

Area ID: multinational-WCPFC-SPAC

General assessment details.

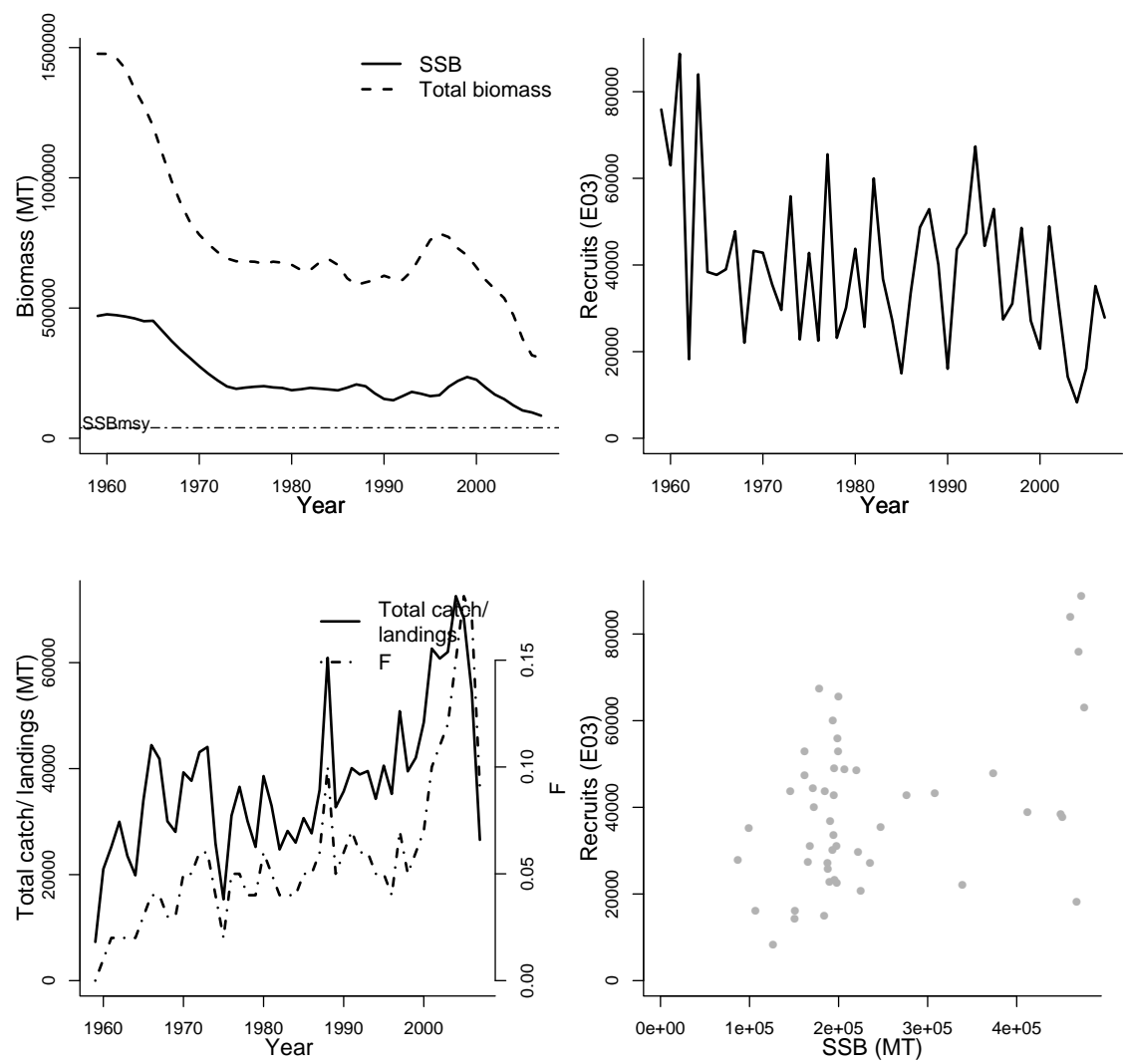
Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Simon Hoyle
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2008
Timeseries span	1959-2007
Document	JENSEN_ALBWPO_2008.pdf (pdf not in database)
Recorder	JENSEN
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
A50-yr	5.5	yr
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Umsy-ratio (U)	1.88E-01	ratio
MSY-MT (TB)	63,830	MT
SSBmsy-MT (SSB)	4.04E+04	MT
SSB_{2007}/SSB_{msy}	2.150	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1959	1959	1959	1959	1959
Maximum year	2007	2007	2007	2007	2007
Time series minimum	86849	8295	0	307860	7307.4
Time series maximum	475880	88750	0.18	1476200	72553.5
Units	MT	E03	ratio	MT	MT



Assessment of Western Pacific Ocean bigeye tuna (*Thunnus obesus*)

Assessment ID:SPC-BIGEYEWPO-1952-2007-JENSEN

Area ID: multinational-SPC-WPO

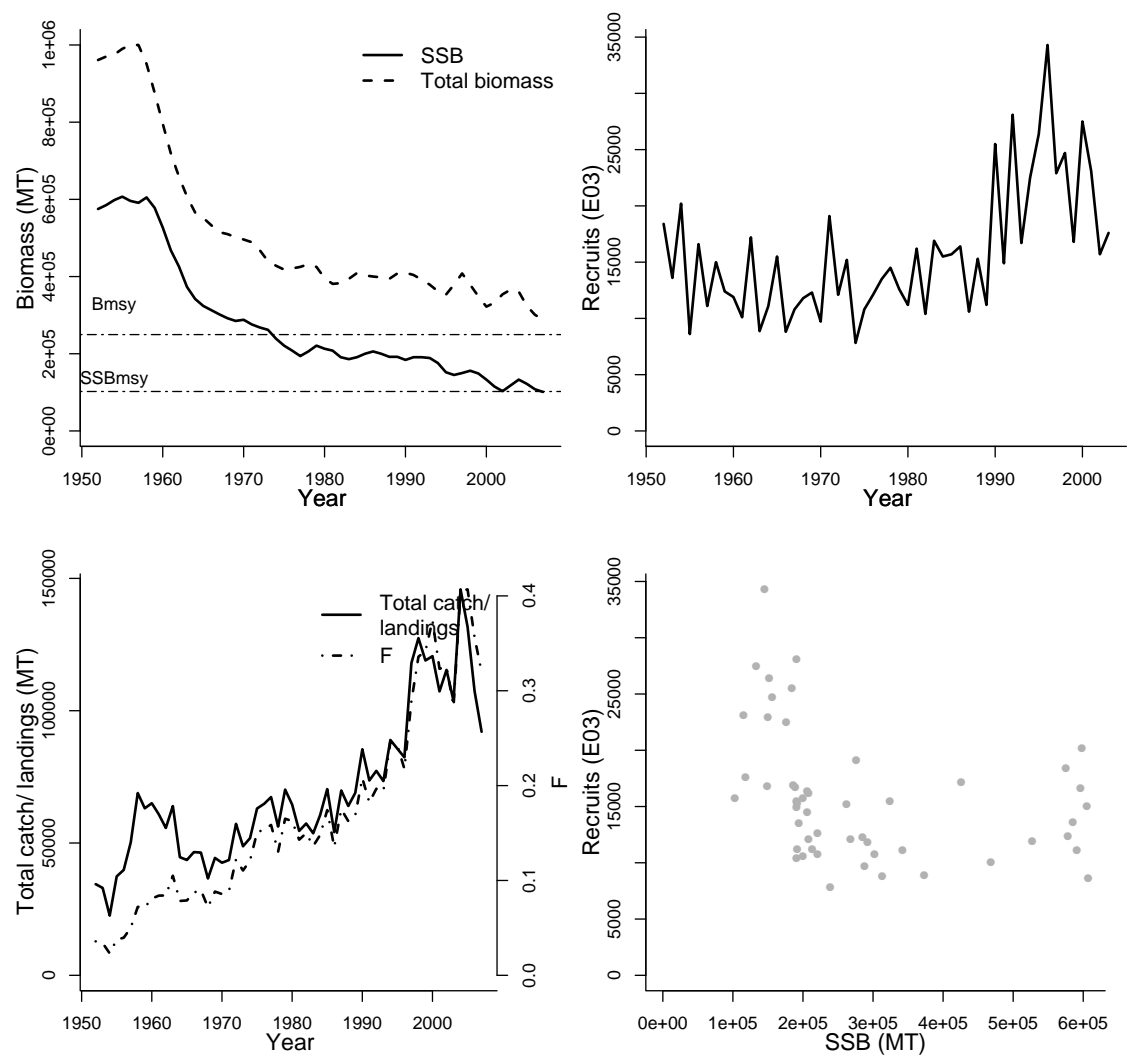
General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Adam Langley
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2008
Timeseries span	1952-2007
Document	JENSEN_BETWPO_2008.pdf (pdf not in database)
Recorder	JENSEN
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	3.6	yr	Bmsy-MT (TB)	249600	MT
M-1/T	AVAILABLE	1/T	Umsy-ratio (U)	0.2588	ratio
REC-AGE			MSY-MT (TB)	64,600	MT
SSB-AGE-yr			SSBmsy-MT (SSB)	102200	MT
TB-AGE-yr			TB_{2007}/B_{msy}	1.154	
F-AGE-yr			SSB_{2007}/SSB_{msy}	0.988	
M					
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1952	1952	1952	1952	1952
Maximum year	2007	2003	2007	2007	2007
Time series minimum	101000	7820	0.0231	288000	22573.92
Time series maximum	607000	34300	0.4069	1000000	145859.3
Units	MT	E03	ratio	MT	MT



Assessment of Central Western Pacific skipjack tuna (*Katsuwonus pelamis*)

Assessment ID:SPC-SKJCWPAC-1972-2007-JENSEN

Area ID: USA-NMFS-CWPAC

General assessment details.

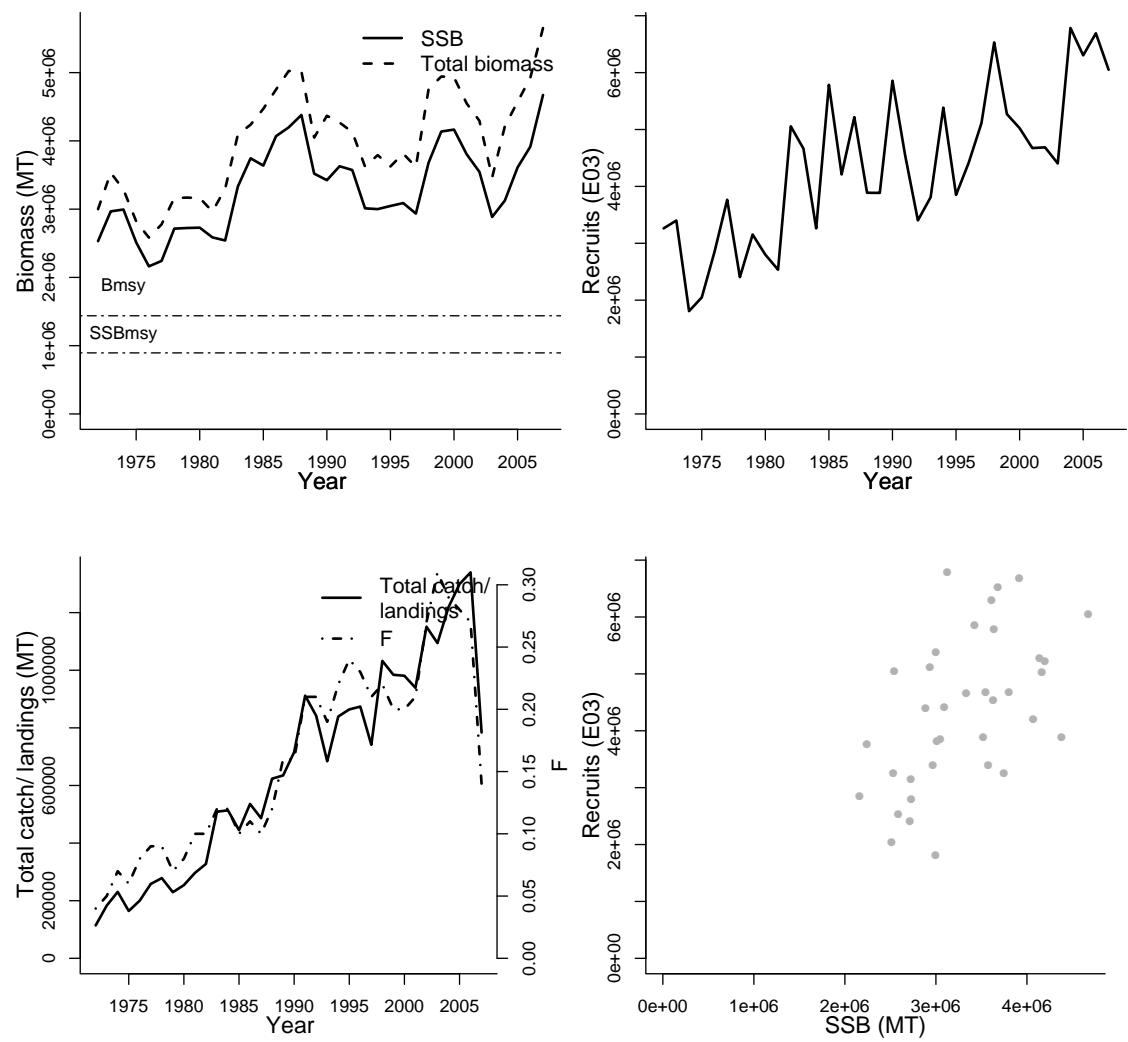
Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	NULL
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	NULL
Timeseries span	1972-2007
Document	/home/ (pdf not in database)
Recorder	JENSEN
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
A50-yr	0.3125	yr
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	1438000.00	MT
Umsy-ratio (U)	0.8900	ratio
MSY-MT (TB)	1279600.00	MT
SSBmsy-MT (SSB)	894200	MT
TB_{2007}/B_{msy}	3.932	
SSB_{2007}/SSB_{msy}	5.225	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2007	2007	2007	2007
Time series minimum	2161842.5	1807470	0.04	2582900	114138.2
Time series maximum	4672400	6784900	0.31	5654125	1339779
Units	MT	E03	ratio	MT	MT



Assessment of Central Western Pacific yellowfin tuna (*Thunnus albacares*)

Assessment ID:SPC-YFINCWPAC-1952-2006-JENSEN

Area ID: USA-NMFS-CWPAC

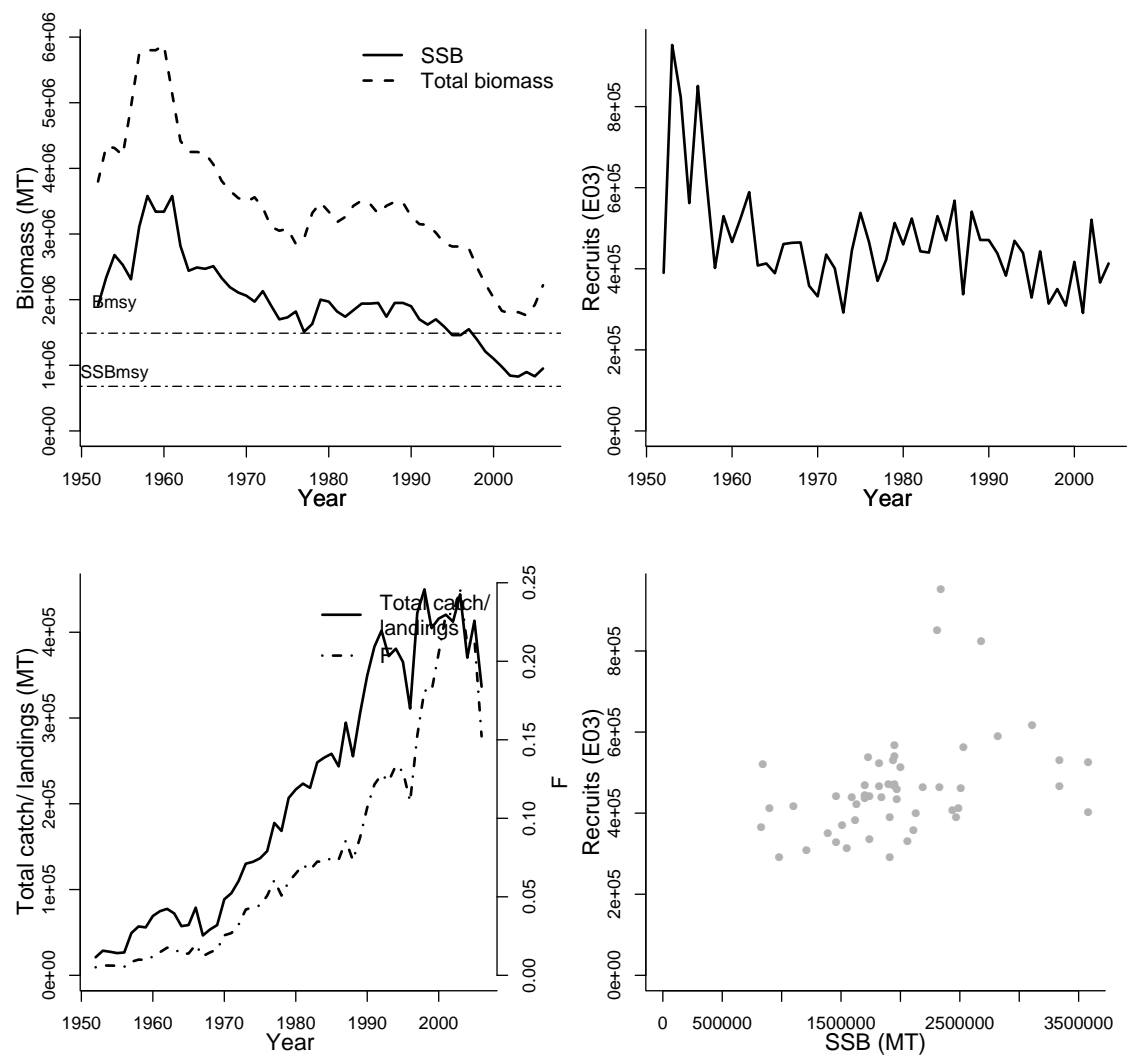
General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	NULL
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	NULL
Timeseries span	1952-2006
Document	/home/ (pdf not in database)
Recorder	JENSEN
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	2	yr	Bmsy-MT (TB)	1489000	MT
M-1/T	AVAILABLE	1/T	Umsy-ratio (U)	0.2686	ratio
REC-AGE			MSY-MT (TB)	400,000	MT
SSB-AGE-yr			SSBmsy-MT (SSB)	679800	MT
TB-AGE-yr			TB_{2006}/B_{msy}	1.491	
F-AGE-yr			SSB_{2006}/SSB_{msy}	1.399	
M					
L50-cm					
MORATOR-yr-yr					
LME					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1952	1952	1952	1952	1952
Maximum year	2006	2004	2006	2006	2006
Time series minimum	828000	291000	0.0051	1760000	21038.2
Time series maximum	3580000	952000	0.2458	5880000	449994.9
Units	MT	E03	ratio	MT	MT



Assessment of Tasmania tasmanian giant crab (*Pseudocarcinus gigas*)

Assessment ID:TAFI-TASGIANTCRABTAS-1990-2007-JENSEN

Area ID: Australia-AFMA-TAS

General assessment details.

Detail	Value
Management body	AFMA
Assessment group	Tasmanian Aquaculture and Fisheries Institute
Assessment authors	Phillippe Ziegler
Assessment method	Size-based model
Publication year	2008
Timeseries span	1990-2007
Document	JENSEN_TASGIANTCRAB_2008.pdf.pdf (pdf not in database)
Recorder	JENSEN
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
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		
MORATOR-yr-yr		
LME		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990	1990	1990	1990	1990
Maximum year	2007	2007	2007	2007	2007
Time series minimum	141.7377	59.4615	0	762.33	0.2
Time series maximum	331.42152	505.763	0.37	1998.76	291.4
Units	E03eggs	E03	ratio	MT	MT

