Dear Olaf,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 68 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.

Contents

Assessment of Pribilof Islands blue king crab (*Paralithodes platypus*)

Assessment ID:AFSC-BKINGCRABPI-1960-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/261

Area ID: USA-NMFS-PI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-06-12
QA/QC complete	YES
Date approved	2009-06-12

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

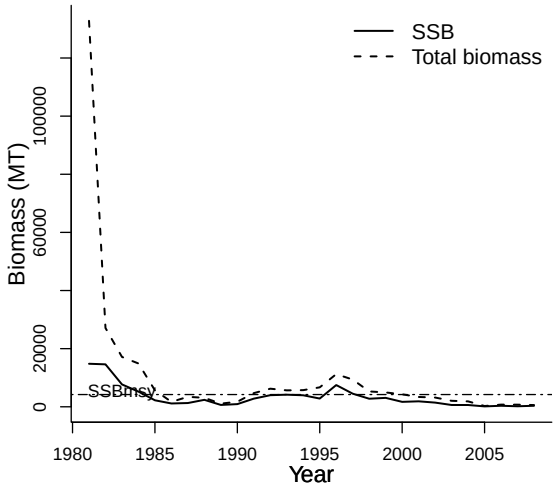
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

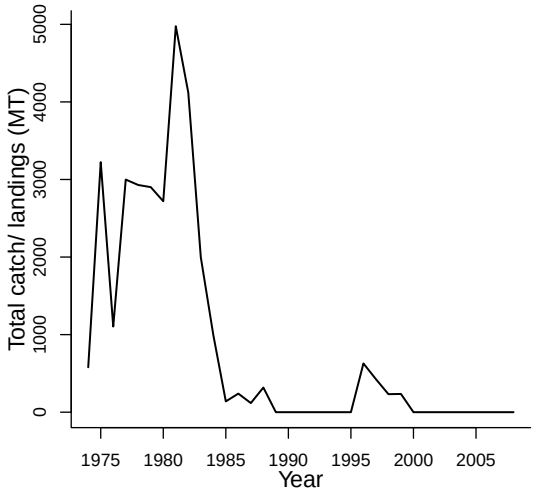
Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	4209.33376	MT
SSB_{2008}/SSB_{msy}	0.082	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981			1981	1974
Maximum year	2008			2008	2008
Time series minimum	131.54			263.08	0
Time series maximum	14800.71			132798.13	4975.9
Units	MT			MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Saint Matthews Island blue king crab (*Paralithodes platypus*)

Assessment ID:AFSC-BKINGCRABSMI-1960-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/262

Area ID: USA-NMFS-SMI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-06-12
QA/QC complete	YES
Date approved	2009-06-12

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

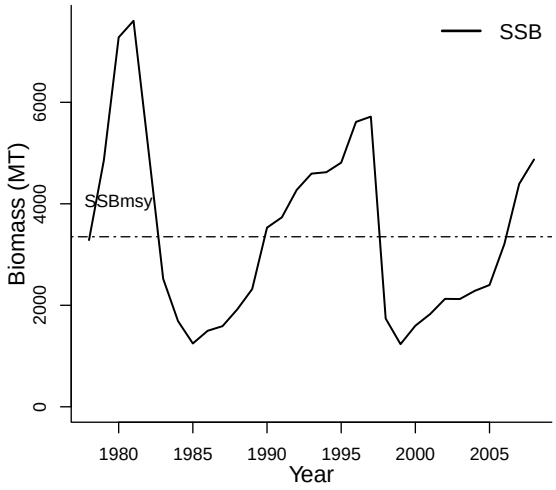
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

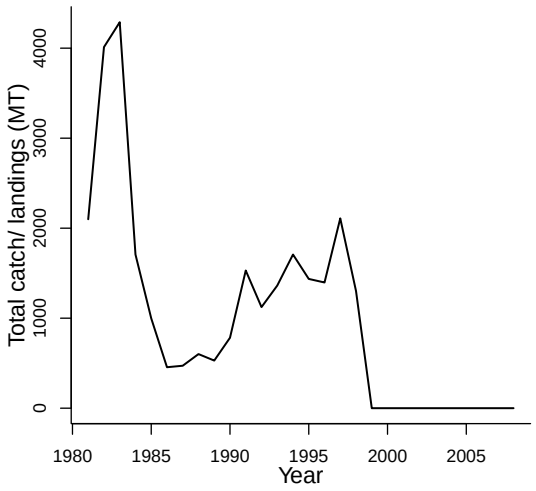
Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	3350.68	MT
SSB_{2008}/SSB_{msy}	1.454	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978				1981
Maximum year	2008				2008
Time series minimum	1234.22				0
Time series maximum	7606.28				4288.41
Units	MT				MT



No recruitment data available



No SSB−recruit data available

Assessment of Aleutian Islands Eastern segment golden king crab (*Lithodes aequispinus*)

Assessment ID:AFSC-GKINGCRABAIES-1990-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/264

Area ID: USA-NMFS-AIES

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	An AD-Model Builder catch at length model
Publication year	2008
Timeseries span	1990-2007
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-02-12
QA/QC complete	NO
Date approved	

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

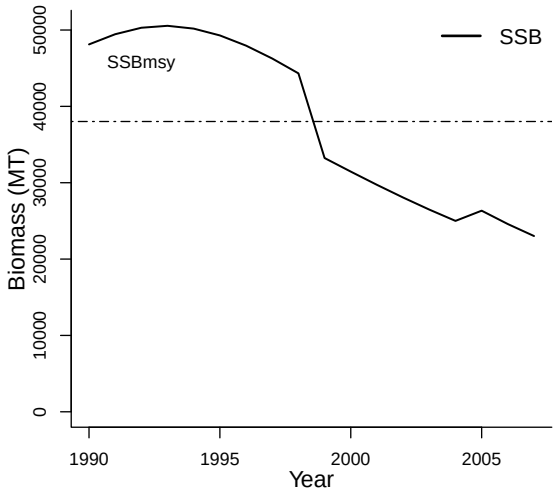
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	38018	MT
SSB_{2007}/SSB_{msy}	0.605	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990				
Maximum year	2007				
Time series minimum	23018				
Time series maximum	50552				
Units	MT				



No recruitment data available

No exploitation data available

No SSB−recruit data available

Assessment of Aleutian Islands Western segment golden king crab (*Lithodes aequispinus*)

Assessment ID:AFSC-GKINGCRABAIWS-1989-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/265

Area ID: USA-NMFS-AIWS

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	An AD-Model Builder catch at length model
Publication year	2008
Timeseries span	1989-2007
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-05-25
QA/QC complete	NO
Date approved	

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

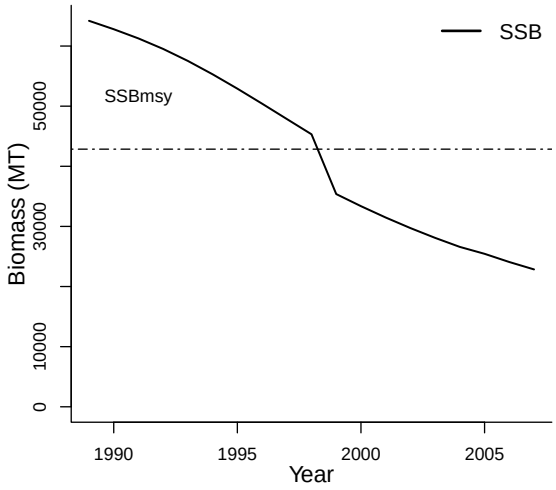
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	42848	MT
SSB_{2007}/SSB_{msy}	0.533	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1989				
Maximum year	2007				
Time series minimum	22848				
Time series maximum	64198				
Units	MT				



No recruitment data available

No exploitation data available

No SSB−recruit data available

Assessment of Bristol Bay red king crab (*Paralithodes camtschaticus*)

Assessment ID:AFSC-RKCRABBB-1960-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/258

Area ID: USA-NMFS-BB

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Length-based analysis
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-05-11
QA/QC complete	YES
Date approved	2009-06-12

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

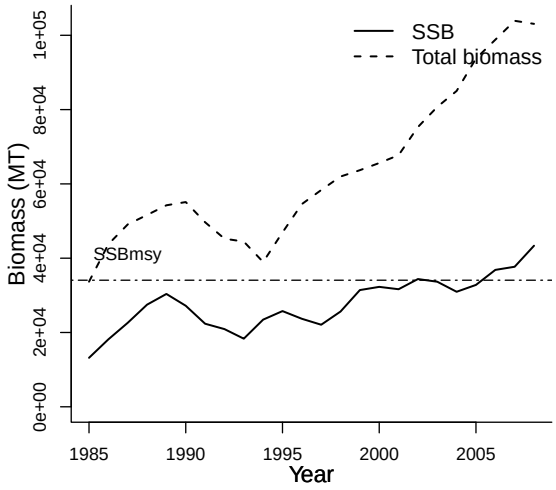
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

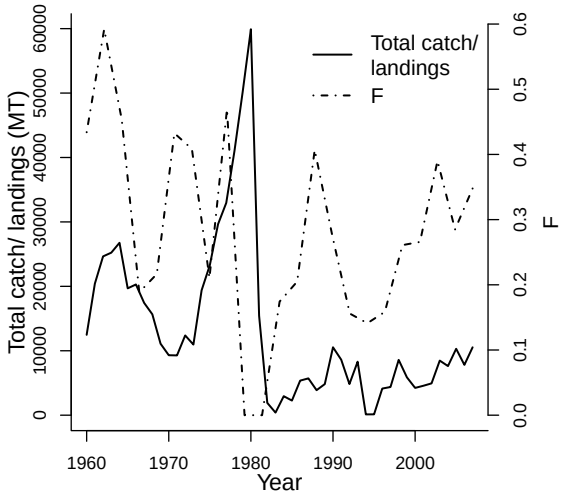
Reference points

Parameter	Value	Units
Umsy-ratio (U)	0.33	ratio
SSBmsy-MT (SSB)	34070	MT
SSB_{2008}/SSB_{msy}	1.273	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1985		1985	1985	1960
Maximum year	2008		2007	2008	2007
Time series minimum	13182.29		0	33675.58	124.28
Time series maximum	43356.14		0.5921	103900.69	59911.79
Units	MT		ratio	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Norton Sound red king crab (*Paralithodes camtschaticus*)

Assessment ID:AFSC-RKCRABNS-1976-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/263

Area ID: USA-NMFS-NS

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Length-based analysis
Publication year	2008
Timeseries span	1976-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-02-12
QA/QC complete	NO
Date approved	

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

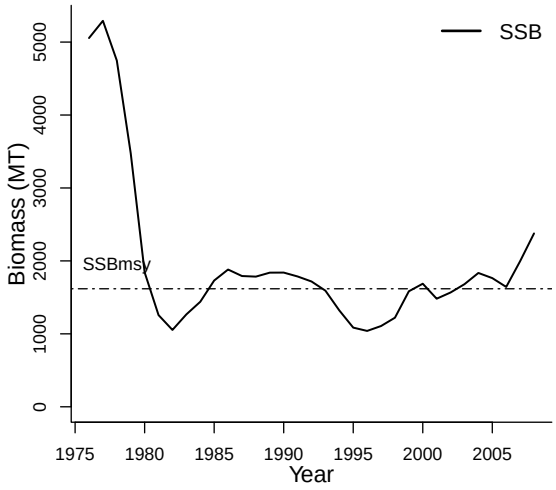
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	1617.96	MT
SSB_{2008}/SSB_{msy}	1.469	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1976				
Maximum year	2008				
Time series minimum	1039.95				
Time series maximum	5291.83				
Units	MT				



No recruitment data available

No exploitation data available

No SSB−recruit data available

Assessment of Pribilof Islands red king crab (*Paralithodes camtschaticus*)

Assessment ID:AFSC-RKCRABPI-1981-2009-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/260

Area ID: USA-NMFS-PI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1981-2009
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-06-12
QA/QC complete	YES
Date approved	2009-06-12

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

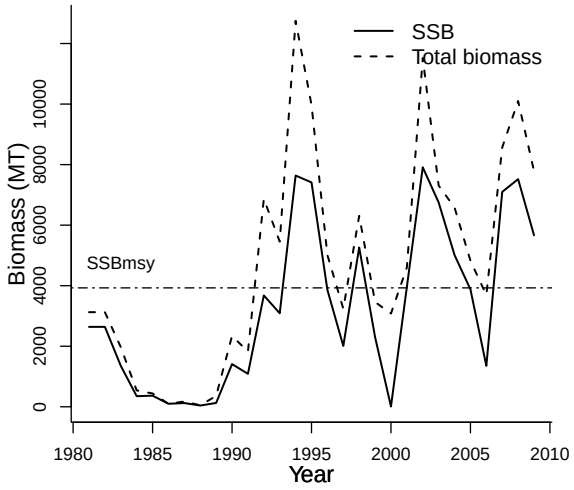
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	3928.11	MT
SSB_{2009}/SSB_{msy}	1.442	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981			1981	
Maximum year	2009			2009	
Time series minimum	9.07			49.9	
Time series maximum	7910.64			12750.47	
Units	MT			MT	



No recruitment data available

No exploitation data available

No SSB−recruit data available

Assessment of Bering Sea snow crab (*Chionoecetes opilio*)

Assessment ID:AFSC-SNOWCRABBS-1979-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/257

Area ID: USA-NMFS-BS

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Size-structured population dynamics model
Publication year	2008
Timeseries span	1979-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2009-05-25
QA/QC complete	NO
Date approved	

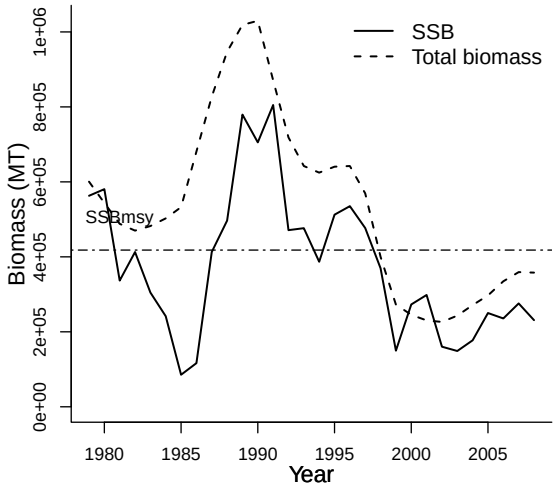
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

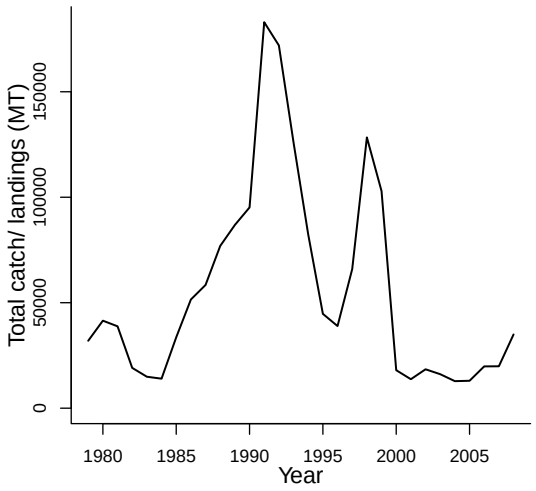
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
SSBmsy-MT (SSB)	418030.728	MT
SSB_{2008}/SSB_{msy}	0.553	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979			1979	1979
Maximum year	2008			2008	2008
Time series minimum	85456.8			226342.59	12813.07
Time series maximum	805035.74			1029654.68	182966.77
Units	MT			MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Bering Sea and Aleutian Islands tanner crab (*Chionoecetes bairdi*)

Assessment ID:AFSC-TANNERCRABBSAI-1965-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/259

Area ID: USA-NMFS-BSAI

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1965-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-14
Date last loaded	2009-06-12
QA/QC complete	YES
Date approved	2009-06-12

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

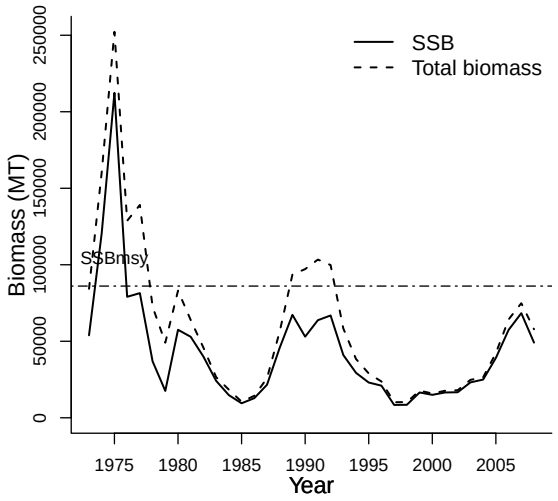
primary LME	secondary LME	tertiary LME
1 - East Bering Sea	na	na

Parameter	Value	Units
SSB-SEX-sex	2	sex
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

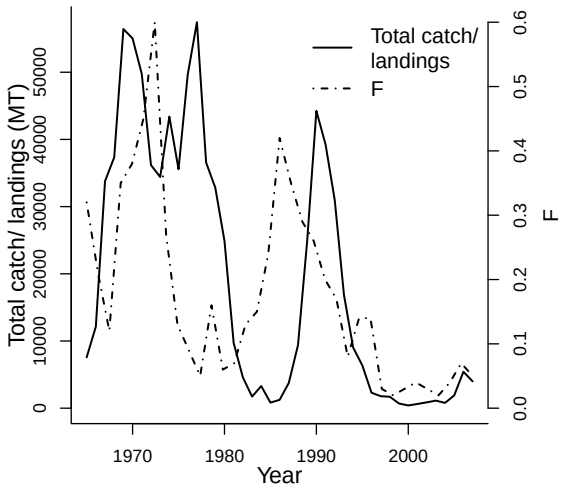
Reference points

Parameter	Value	Units
SSBmsy-MT (SSB)	86073.62	MT
SSB_{2008}/SSB_{msy}	0.571	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973		1973	1973	1965
Maximum year	2008		2007	2008	2007
Time series minimum	8391.45		0.02	10160.46	408.23
Time series maximum	212353.63		0.6	252247.05	57442.89
Units	MT		ratio	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Ross Sea antarctic toothfish (*Dissostichus mawsoni*)

Assessment ID:CCAMLR-ATOOTHFISHRS-1995-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/420

Area ID: multinational-CCAMLR-RS

General assessment details.

Detail	Value
Management body	CCAMLR
Assessment group	Commission for the Conservation of Antarctic Marine Living Resources
Assessment authors	A. Dunn
Assessment method	CASAL
Publication year	
Timeseries span	1995-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-01-29
QA/QC complete	NO
Date approved	

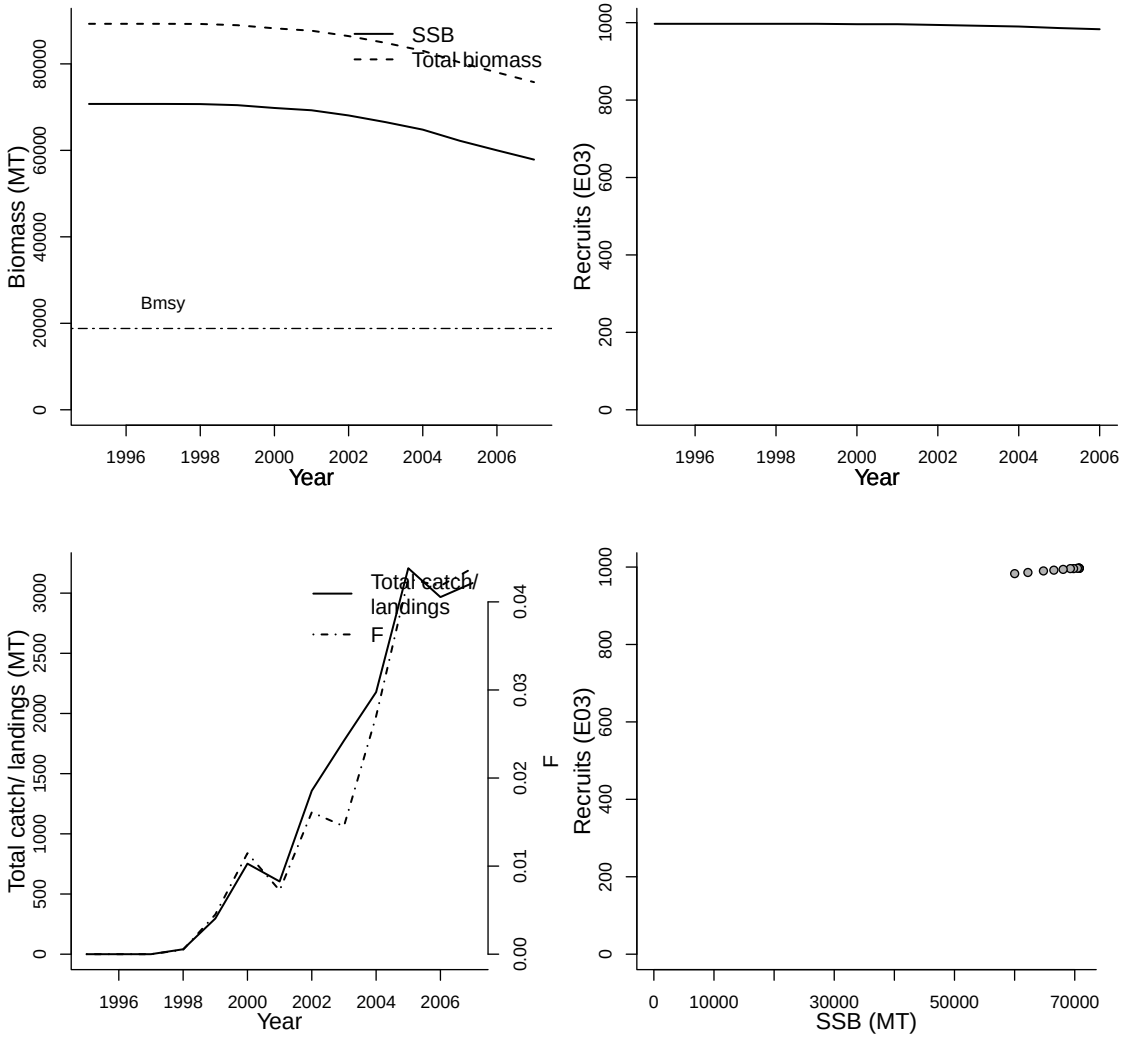
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
-96 - Subantarctic High Seas	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	9.25	yr
M-1/yr	0.13	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.136	1/yr
MSY-MT (TB)	3105.3982	MT
Bmsy-MT (TB)	18802.1604	MT
SSB0-MT (SSB)	70738	MT
BH-h-dimless	0.75	dimless
TB_{2007}/B_{msy}	4.030	
F_{2007}/F_{msy}	0.322	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1995	1995	1995	1995	1995
Maximum year	2007	2006	2007	2007	2007
Time series minimum	57865.8	983	0	75776.5	0
Time series maximum	70738	997	0.04382281	89269.9	3206.99
Units	MT	E03	1/yr	MT	MT



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

Assessment ID:IATTC-BIGEYEEPAC-1975-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/87

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	2008-11-30
Date last loaded	2009-03-25
QA/QC complete	NO
Date approved	

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

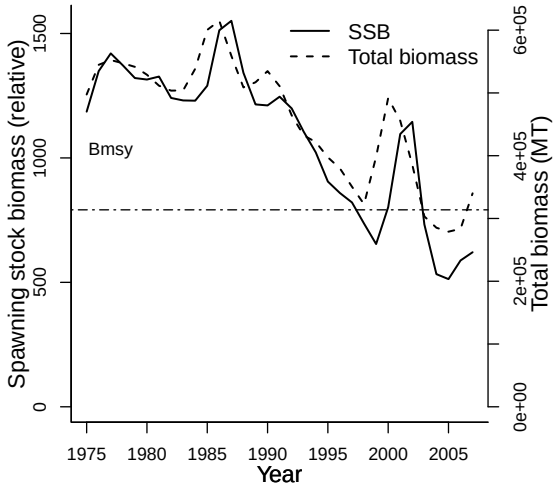
primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	na	na

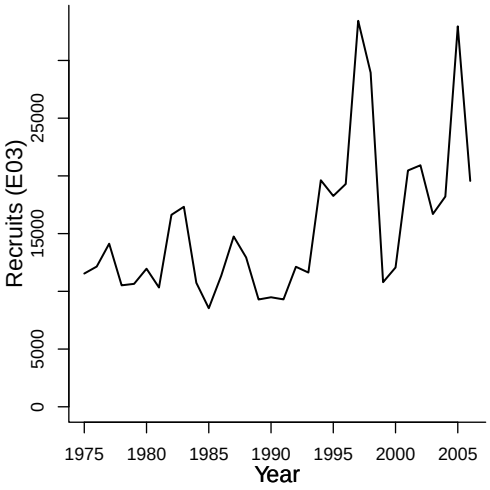
Parameter	Value	Units
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

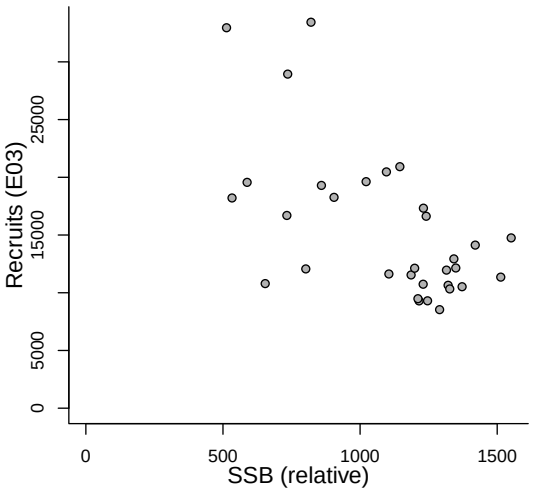
Parameter	Value	Units
Bmsy-MT (TB)	313767.00	MT
MSY-MT (TB)	92758.00	MT
SSBmsy-relative	688	relative
TB_{2007}/B_{msy}	1.084	
SSB_{2007}/SSB_{msy}	0.903	

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	





No exploitation data available



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

Assessment ID:IATTC-YFINEPAC-1975-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/56

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 in database)
Recorder	JENSEN
Date entered	2008-04-21
Date last loaded	2009-03-25
QA/QC complete	NO
Date approved	

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

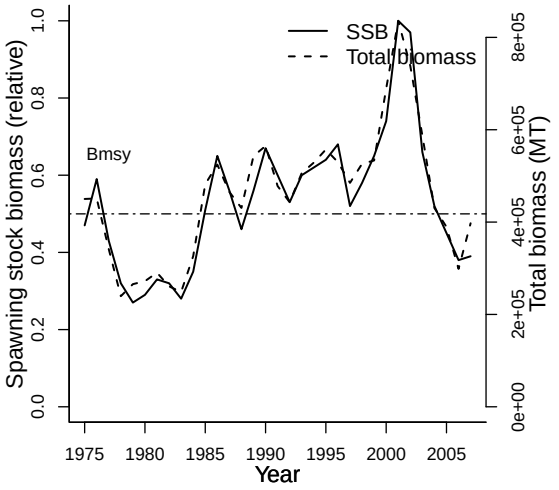
primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	na	na

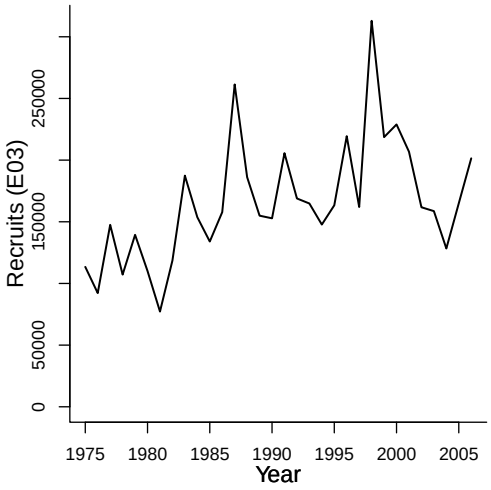
Parameter	Value	Units
REC-AGE-yr	0.50	yr
TB-AGE-yr	1.50	yr
M-1/yr	0.25	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

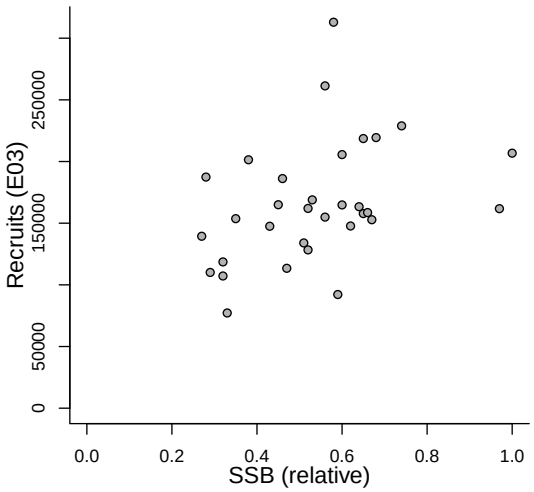
Parameter	Value	Units
Bmsy-MT (TB)	417813.00	MT
MSY-MT (TB)	289140.00	MT
TB_{2007}/B_{msy}	0.951	

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	





No exploitation data available



Assessment of Atlantic bigeye tuna (*Thunnus obesus*)

Assessment ID:ICCAT-BIGEYEATL-1950-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/245

Area ID: USA-NMFS-ATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
Assessment method	Surplus production model
Publication year	2008
Timeseries span	1950-2005
Document	JENSEN-BIGEYEATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2009-11-05
QA/QC complete	NO
Date approved	

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

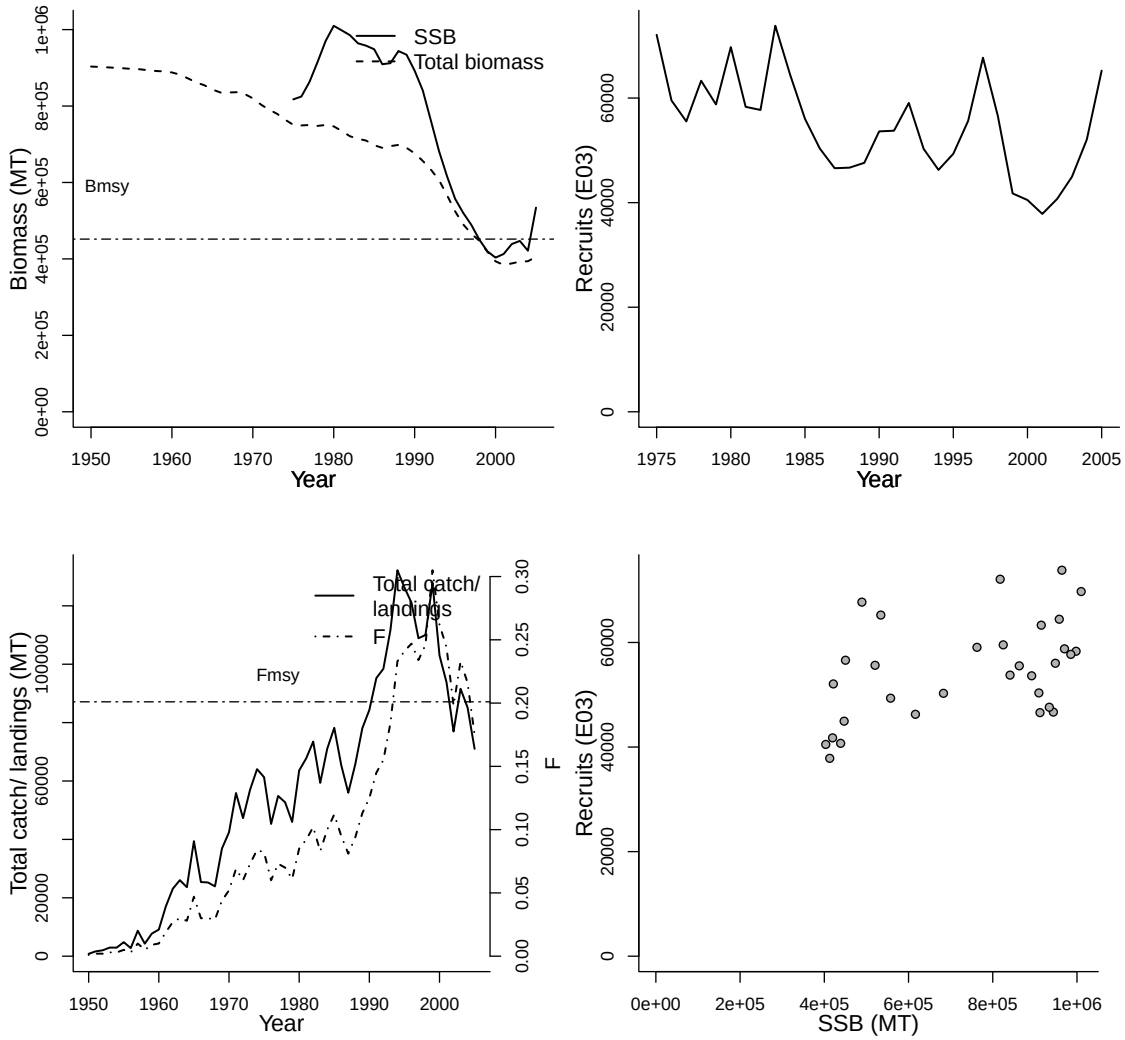
primary LME	secondary LME	tertiary LME
-98 - Atlantic High Seas	na	na

Parameter	Value	Units
REC-AGE-yr	0	yr
M-1/yr	0.4	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.201	1/T
MSY-MT (TB)	90820	MT
Bmsy-MT (TB)	451800	MT
TB_{2005}/B_{msy}	0.898	
F_{2005}/F_{msy}	0.871	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1950	1950	1950
Maximum year	2005	2005	2005	2005	2005
Time series minimum	403425	37844.186	0.001	384400	808
Time series maximum	1009957	73820.329	0.305	903300	132200
Units	MT	E03	1/T	MT	MT



Assessment of Eastern Atlantic skipjack tuna (*Katsuwonus pelamis*)

Assessment ID:ICCAT-SKJEATL-1950-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/254

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	
Assessment method	Bayesian Surplus Production Model
Publication year	2008
Timeseries span	1950-2006
Document	JENSEN_YFINATL-2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-11
Date last loaded	2009-11-05
QA/QC complete	NO
Date approved	

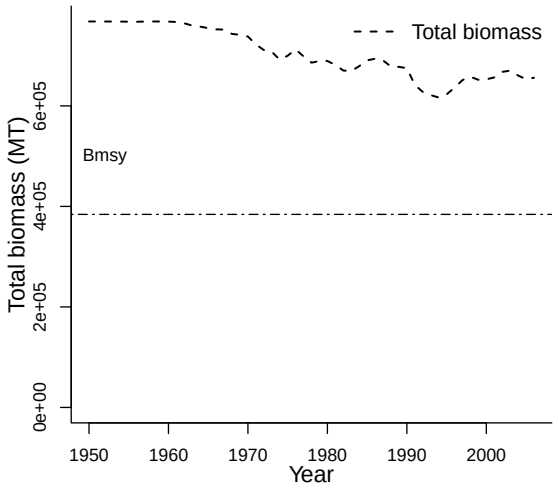
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
-98 - Atlantic High Seas	na	na

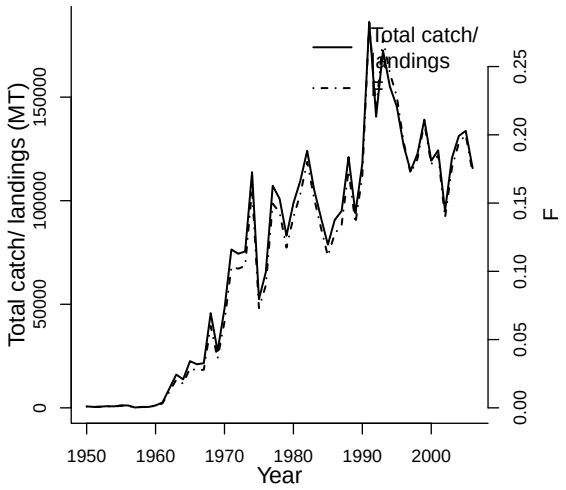
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/T (F)	0.636753571828511	1/T
MSY-MT (TB)	225796	MT
Bmsy-MT (TB)	384159	MT
B0-MT	768318	MT
TB_{2006}/B_{msy}	1.708	
F_{2006}/F_{msy}	0.270	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1950	1950	1950
Maximum year			2006	2006	2006
Time series minimum			0.000223689689387923	616733.53	176
Time series maximum			0.282733661203231	768026.51	186329.21
Units			1/T	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Western Atlantic skipjack tuna (*Katsuwonus pelamis*)

Assessment ID:ICCAT-SKJWATL-1952-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/253

Area ID: multinational-ICCAT-WATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
Assessment method	Bayesian Surplus Production Model
Publication year	2008
Timeseries span	1952-2006
Document	JENSEN_YFINATL-2008.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-11
Date last loaded	2009-11-05
QA/QC complete	NO
Date approved	

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

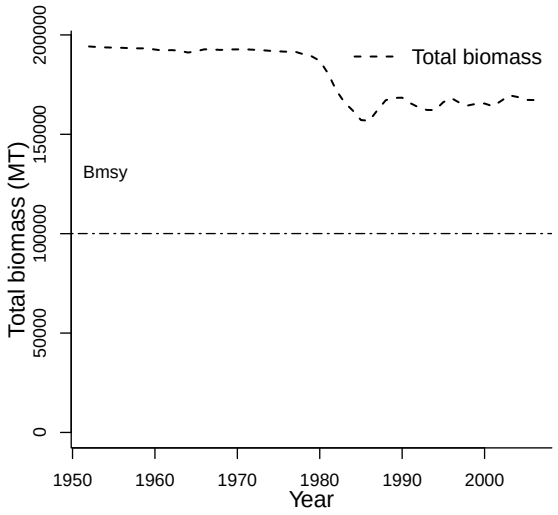
primary LME	secondary LME	tertiary LME
-98 - Atlantic High Seas	na	na

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

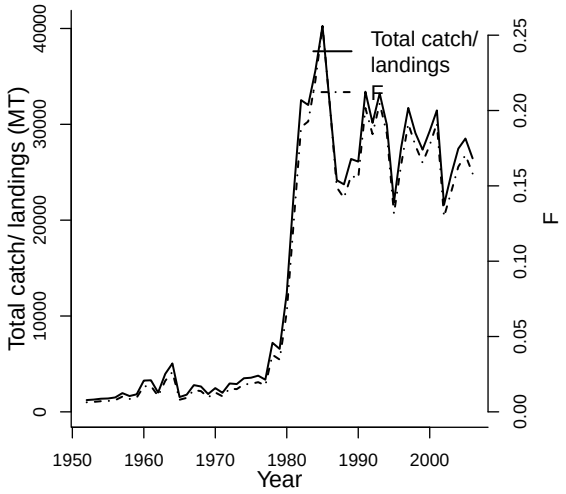
Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.489367075307683	1/T
MSY-MT (TB)	57815	MT
Bmsy-MT (TB)	100052	MT
B0-MT	200104	MT
TB_{2006}/B_{msy}	1.671	
F_{2006}/F_{msy}	0.323	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1952	1952	1952
Maximum year			2006	2006	2006
Time series minimum			0.0063272611699945	156798.05	1229
Time series maximum			0.256188321434316	194191.85	40272.31
Units			1/T	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Mediterranean Sea swordfish (*Xiphias gladius*)

Assessment ID:ICCAT-SWORDMED-1968-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/58

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 in database)
Recorder	JENSEN
Date entered	2008-11-17
Date last loaded	2009-03-25
QA/QC complete	NO
Date approved	

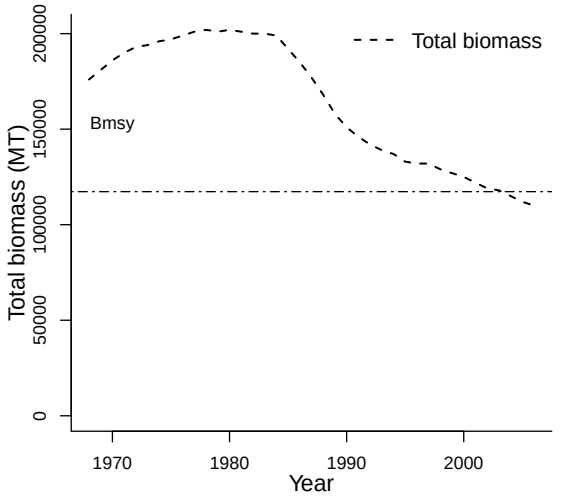
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
26 - Mediterranean Sea	na	na

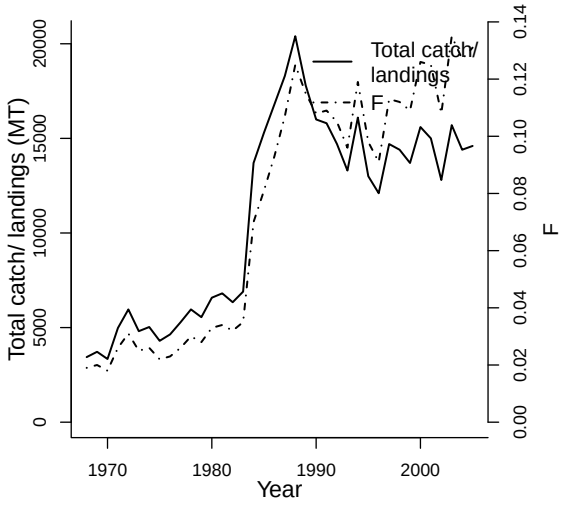
Parameter	Value	Units
L50-cm	142	cm
M-1/yr	0.2	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	117300	MT
Umsy-ratio (U)	0.1035	ratio
MSY-MT (TB)	12140	MT
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 Northern Atlantic swordfish (*Xiphias gladius*)

Assessment ID:ICCAT-SWORDNATL-1978-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/249

Area ID: multinational-ICCAT-NATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1978-2007
Document	JENSEN_SWORDSATL-2007.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2009-09-30
QA/QC complete	NO
Date approved	

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

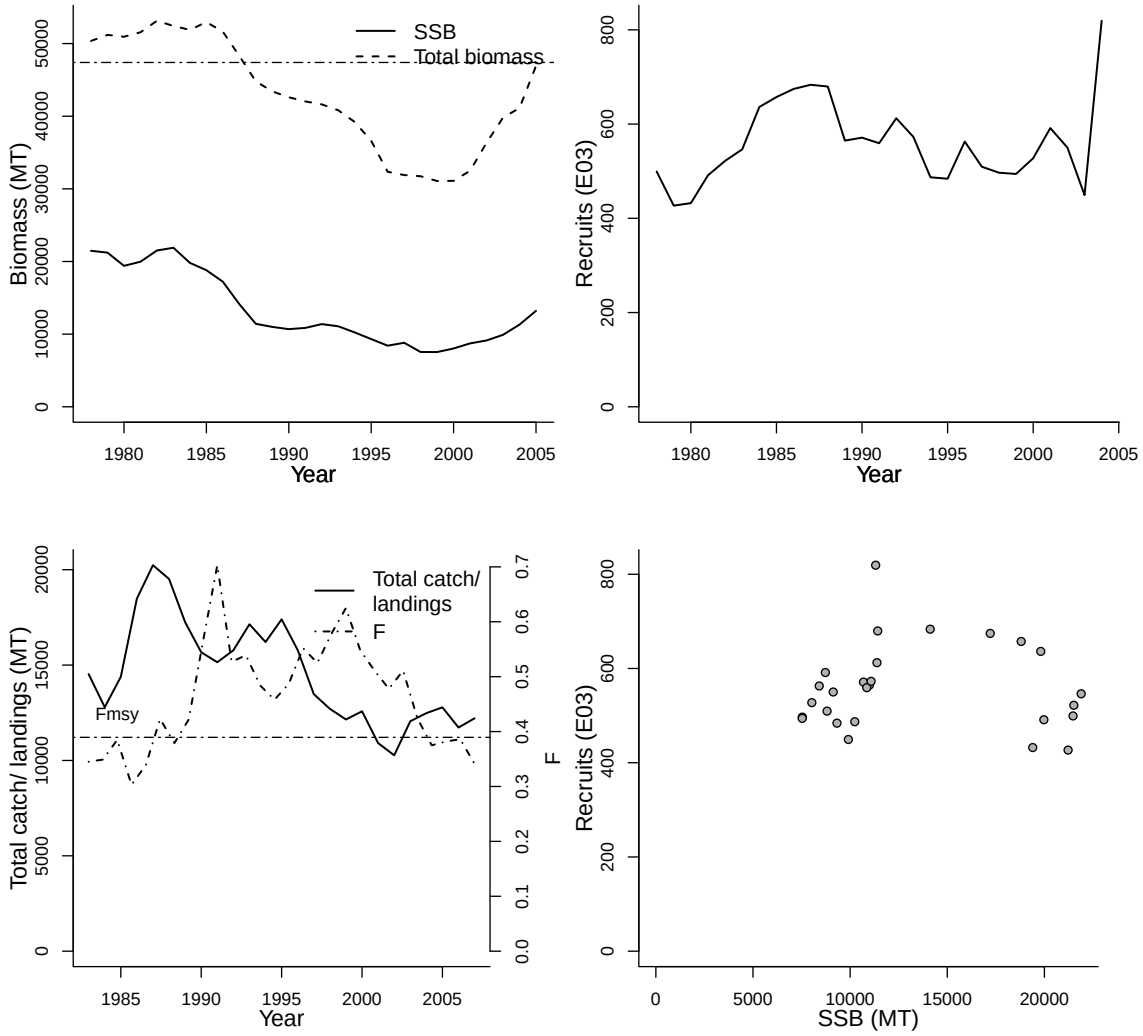
primary LME	secondary LME	tertiary LME
-98 - Atlantic High Seas	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.3895	1/T
MSY-MT (TB)	14879	MT
Bmsy-MT (TB)	47399	MT
TB_{2005}/B_{msy}	0.990	
F_{2005}/F_{msy}	0.875	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1978	1978	1978	1978	1983
Maximum year	2005	2004	2005	2005	2007
Time series minimum	7533	426.861	0.303	31077.76	10269
Time series maximum	21893	819.176	0.703	53133.48	20236
Units	MT	E03	1/T	MT	MT



Assessment of South Atlantic swordfish (*Xiphias gladius*)

Assessment ID:ICCAT-SWORDSATL-1950-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/247

Area ID: multinational-ICCAT-SATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1950-2005
Document	JENSEN_SWORDSATL-2007.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2009-09-30
QA/QC complete	NO
Date approved	

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

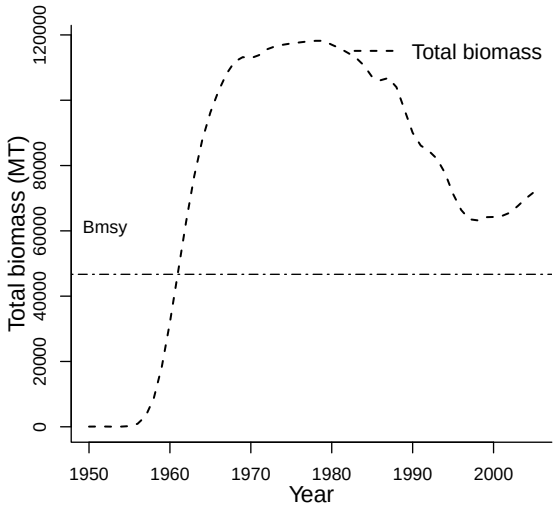
primary LME	secondary LME	tertiary LME
-98 - Atlantic High Seas	na	na

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

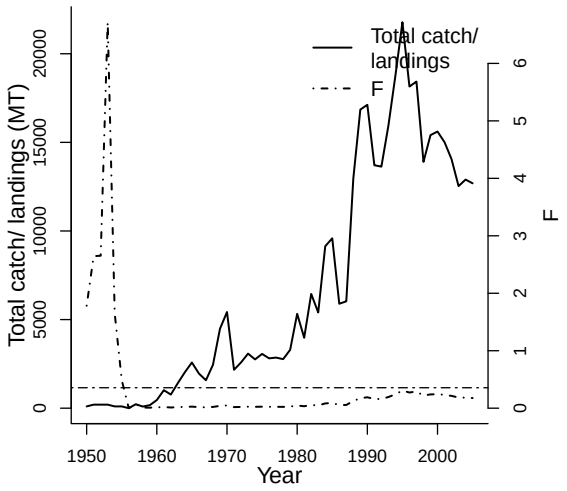
Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.356	1/T
MSY-MT (TB)	16640	MT
Bmsy-MT (TB)	46690	MT
TB_{2005}/B_{msy}	1.540	
F_{2005}/F_{msy}	0.494	

Time series minima and maxima				
	SSB R	F	TB	Catch
Minimum year		1950	1950	1950
Maximum year		2005	2005	2005
Time series minimum		0.001	29.77	1
Time series maximum		6.717	118200	21780
Units		1/T	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Atlantic yellowfin tuna (*Thunnus albacares*)

Assessment ID:ICCAT-YFINATL-1970-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/252

Area ID: USA-NMFS-ATL

General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1970-2006
Document	JENSEN-YFINATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2009-11-05
QA/QC complete	NO
Date approved	

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

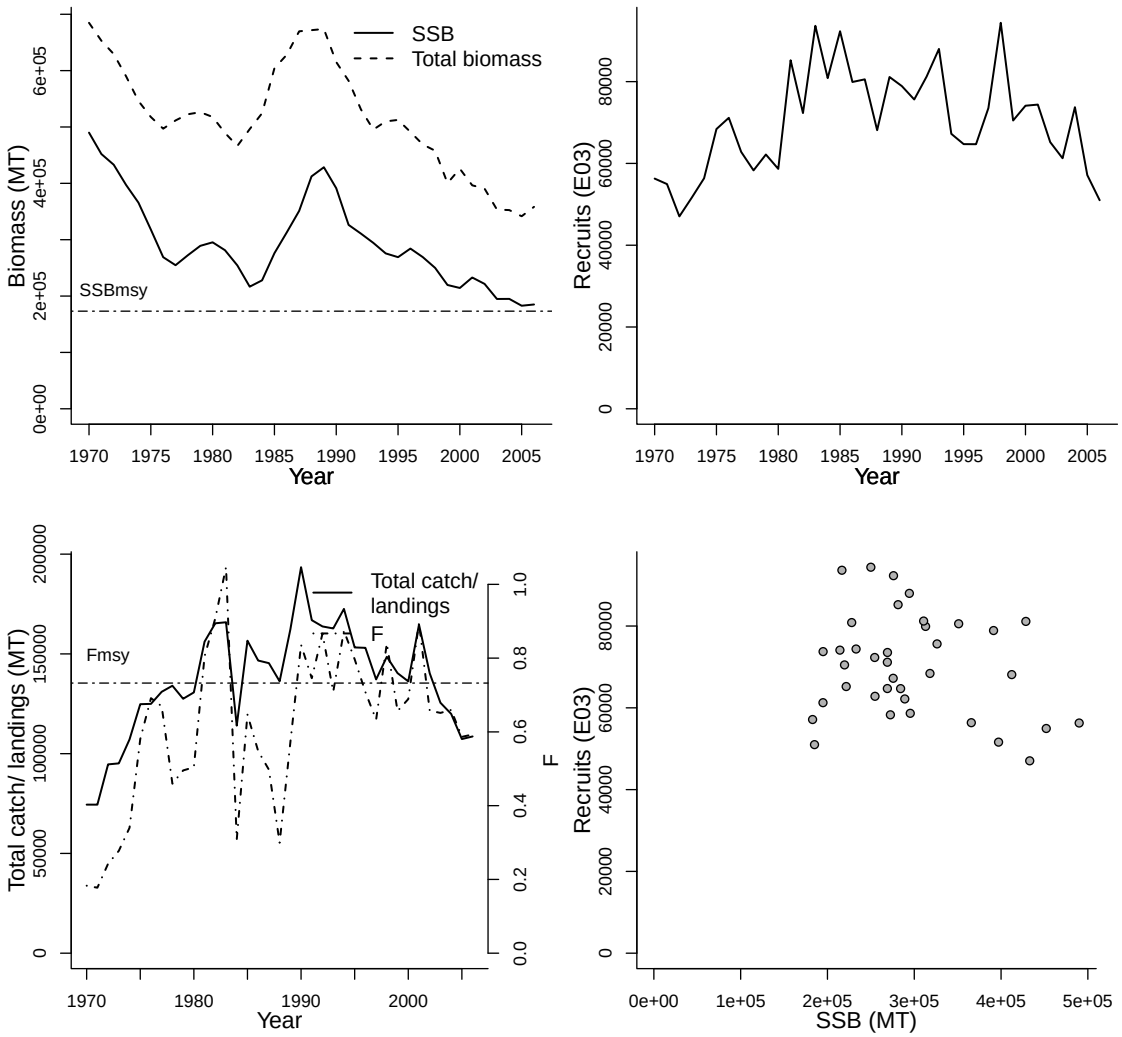
primary LME	secondary LME	tertiary LME
-98 - Atlantic High Seas	na	na

Parameter	Value	Units
REC-AGE-yr	0	yr
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.73235	1/T
SSBmsy-MT (SSB)	173191.00788815	MT
MSY-MT (TB)	129800	MT
F_{2006}/F_{msy}	0.810	
SSB_{2006}/SSB_{msy}	1.069	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1970	1970	1970	1970	1970
Maximum year	2006	2006	2006	2006	2006
Time series minimum	182867.5	47043.438	0.1775	341600	74447.748
Time series maximum	489994	94386.279	1.0465	684850	193448.27
Units	MT	E03	1/T	MT	MT



Assessment of Chilean EEZ and offshore chilean jack mackerel (*Trachurus murphyi*)

Assessment ID:IFOP-CHTRACCH-1975-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/424

Area ID: multinational-SPRFMO-CH

General assessment details.

Detail	Value
Management body	SPRFMO
Assessment group	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Assessment authors	Canales, Cristian
Assessment method	Unknown
Publication year	2008
Timeseries span	1975-2007
Document	JENSEN-JACKMACKCH-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-11-07
Date last loaded	2009-11-08
QA/QC complete	NO
Date approved	

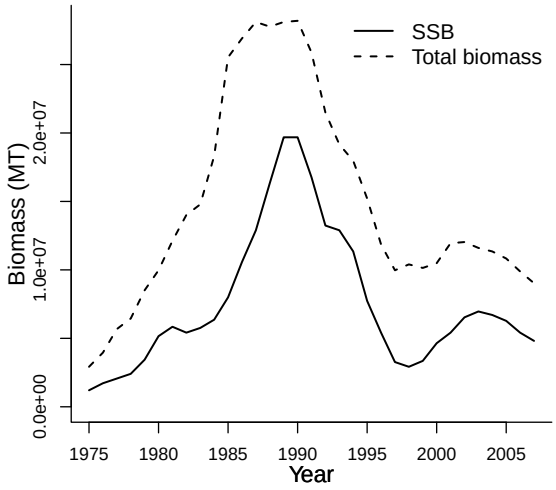
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
13 - Humboldt Current	na	na

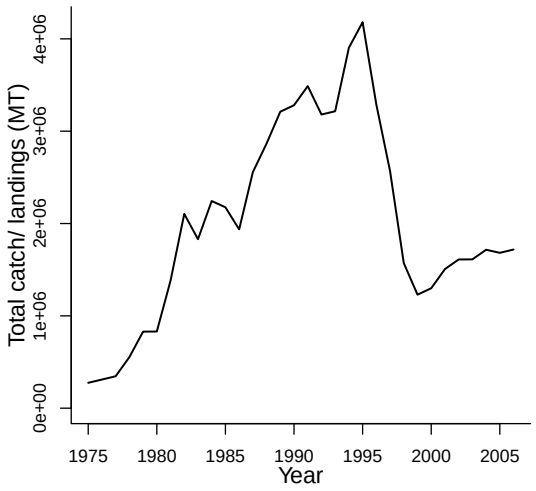
Parameter	Value	Units
A50-yr	5	yr
M-1/yr	0.23	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975			1975	1975
Maximum year	2007			2007	2006
Time series minimum	1203600			2922000	274900
Time series maximum	19684800			28194600	4180300
Units	MT			MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of Indian Ocean bigeye tuna (*Thunnus obesus*)

Assessment ID:IOTC-BIGEYEIO-1957-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/241

Area ID: multinational-IOTC-IO

General assessment details.

Detail	Value
Management body	IOTC
Assessment group	Indian Ocean Tuna Commission
Assessment authors	
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1957-2006
Document	JENSEN_BIGEYEIO-2007.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-08
Date last loaded	2009-11-02
QA/QC complete	NO
Date approved	

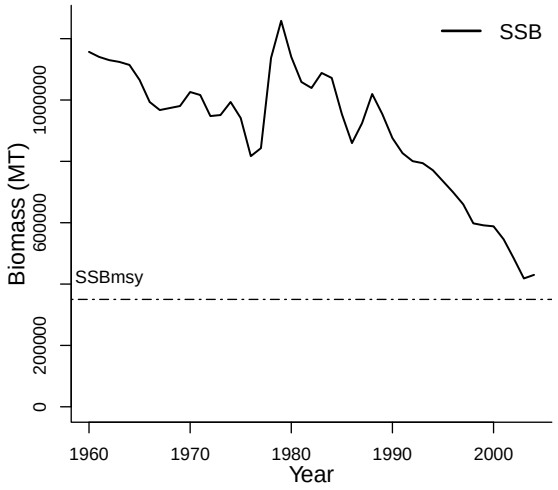
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
-97 - Indian High Seas	na	na

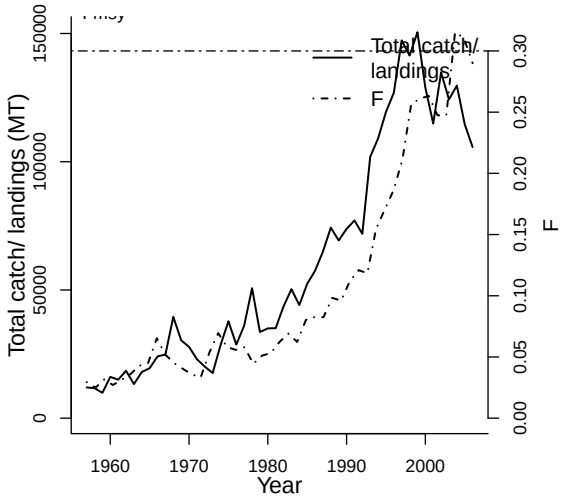
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.3	1/yr
SSBmsy-MT (SSB)	350000	MT
MSY-MT (TB)	111200	MT
B0-MT	1380000	MT
SSB0-MT (SSB)	1150000	MT
F_{2004}/F_{msy}	0.967	
SSB_{2004}/SSB_{msy}	1.229	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1960		1960		1957
Maximum year	2004		2004		2006
Time series minimum	418300		0.0249		9900
Time series maximum	1258200		0.3153		150500
Units	MT		1/yr		MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand australian salmon (*Arripis trutta*)

Assessment ID:NIWA-AUSSALMONNZ-1975-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/419

Area ID: New Zealand-MFish-NZ

General assessment details.

Detail	Value
Management body	MFish
Assessment group	National Institute of Water and Atmospheric Research
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-01-04
QA/QC complete	NO
Date approved	

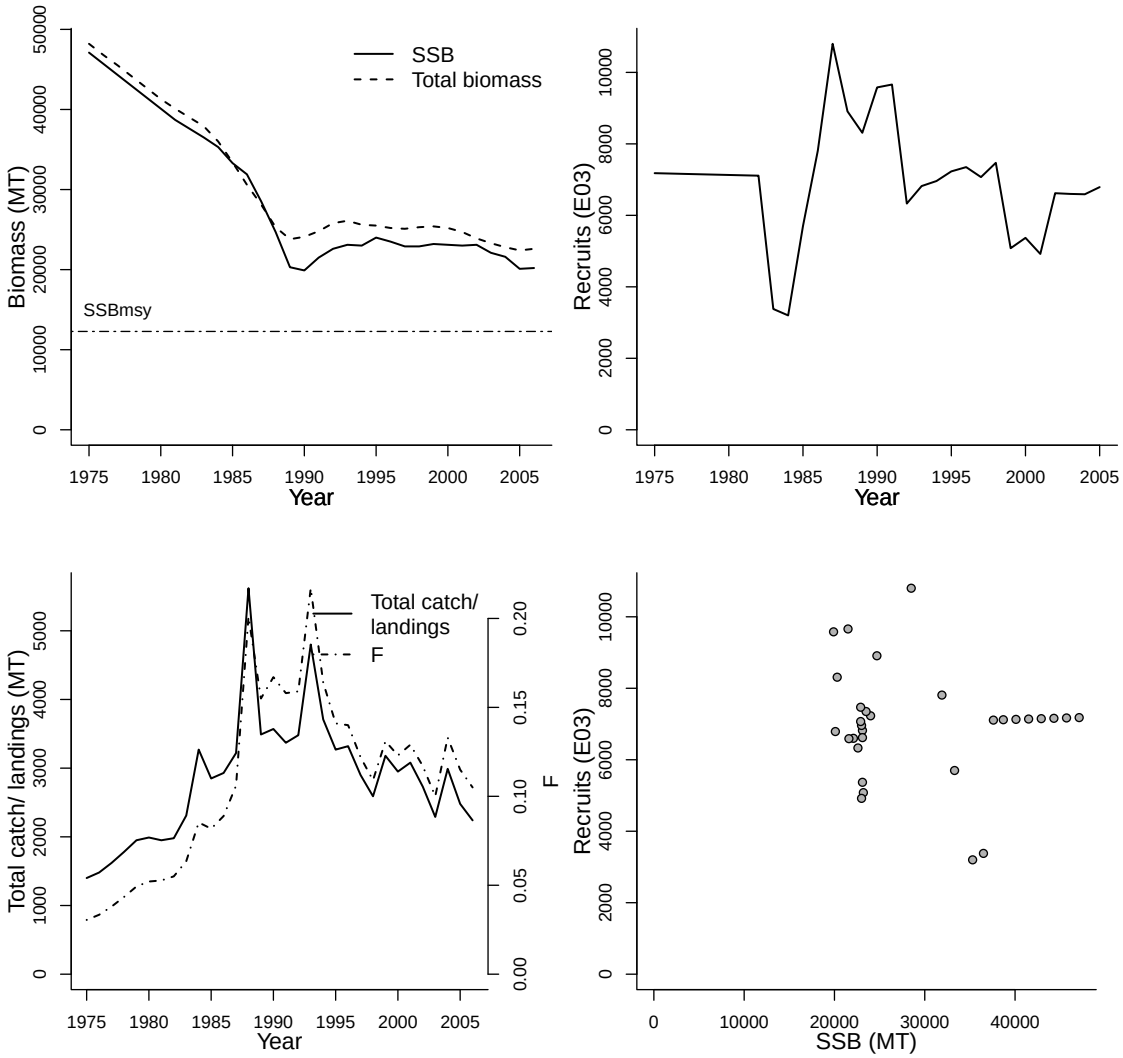
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	4	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.32	1/yr
SSBmsy-MT (SSB)	12280.7293248	MT
MSY-MT (TB)	3371.82	MT
SSB0-MT (SSB)	47128.15	MT
BH-h-dimless	0.875	dimless
F_{2006}/F_{msy}	0.328	
SSB_{2006}/SSB_{msy}	1.645	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1975	1975	1975
Maximum year	2006	2005	2006	2006	2006
Time series minimum	19900	3200	0.0305	22400	1400
Time series maximum	47100	10800	0.217	48200	5620
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Mid East Coast orange roughy (*Hoplostethus atlanticus*)

Assessment ID:NIWA-OROUGHYNZMEC-1981-2004-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/219

Area ID: New Zealand-MFish-NZMEC

General assessment details.

Detail	Value
Management body	MFish
Assessment group	National Institute of Water and Atmospheric Research
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1981-2004
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-02-04
QA/QC complete	NO
Date approved	

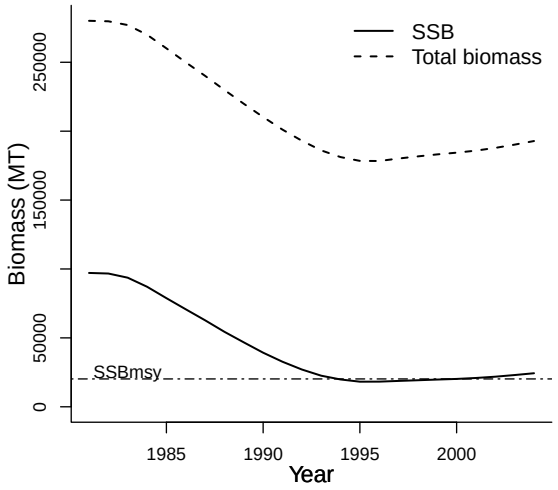
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

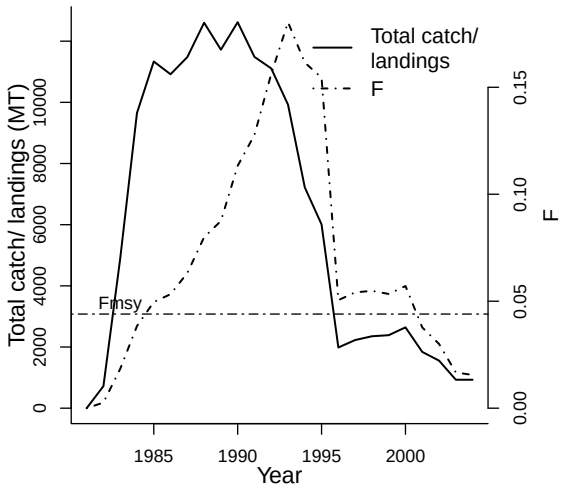
Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	31.3	yr
M-1/yr	0.045	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.044	1/yr
SSBmsy-MT (SSB)	20213.00407	MT
MSY-MT (TB)	2598.07907	MT
SSB0-MT (SSB)	97126.1	MT
BH-h-dimless	0.75	dimless
F_{2004}/F_{msy}	0.353	
SSB_{2004}/SSB_{msy}	1.204	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1981		1981	1981	1981
Maximum year	2004		2004	2004	2004
Time series minimum	18208		0	178351	0
Time series maximum	97126.3		0.180408935	280089	12620
Units	MT		1/yr	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of West end of Chatham Rise black oreo (*Allocyttus niger*)

Assessment
ID:NZMFishDEEPWATER-BLACKOREOWECR-1973-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/220

Area ID: New Zealand-MFish-WECR

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1973-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

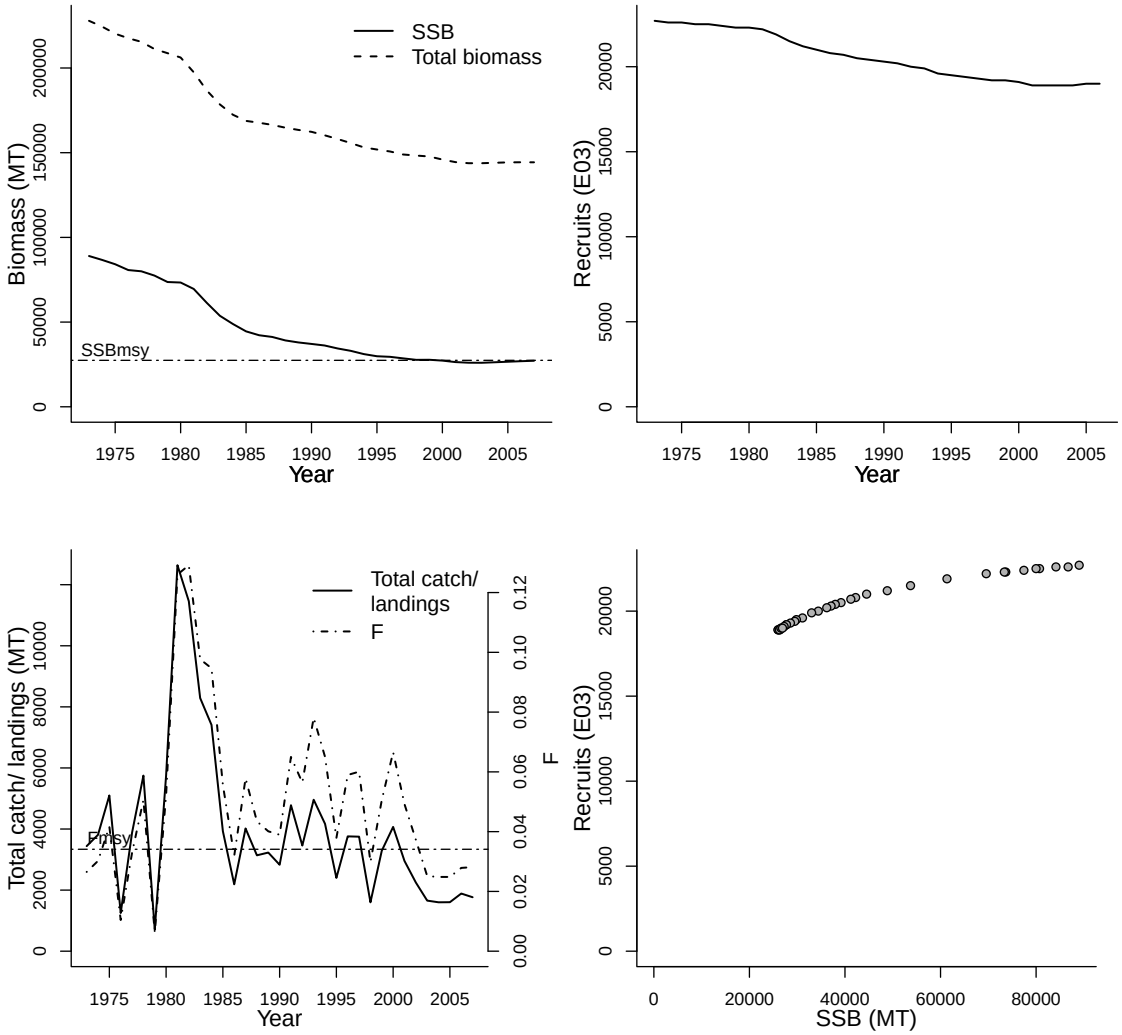
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	38	yr
M-1/yr	0.044	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	88923	MT
MSY-MT (TB)	1947	MT
SSBmsy-MT (SSB)	27427	MT
Fmsy-1/yr (F)	0.0341	1/yr
BH-h-dimless	0.75	dimless
F_{2007}/F_{msy}	0.825	
SSB_{2007}/SSB_{msy}	0.991	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2007	2006	2007	2007	2007
Time series minimum	25981.7	18900	0.006334863	143796	709.97
Time series maximum	89015.2	22700	0.1291476	227865	12638.29
Units	MT	E03	1/yr	MT	MT



Assessment of Chatham Rise smooth oreo (*Pseudocyttus maculatus*)

Assessment
ID:NZMFishDEEPWATER-SMOOTHOREOCR-1979-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/423

Area ID: New Zealand-MFish-CR

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-11-05
Date last loaded	2010-02-01
QA/QC complete	NO
Date approved	

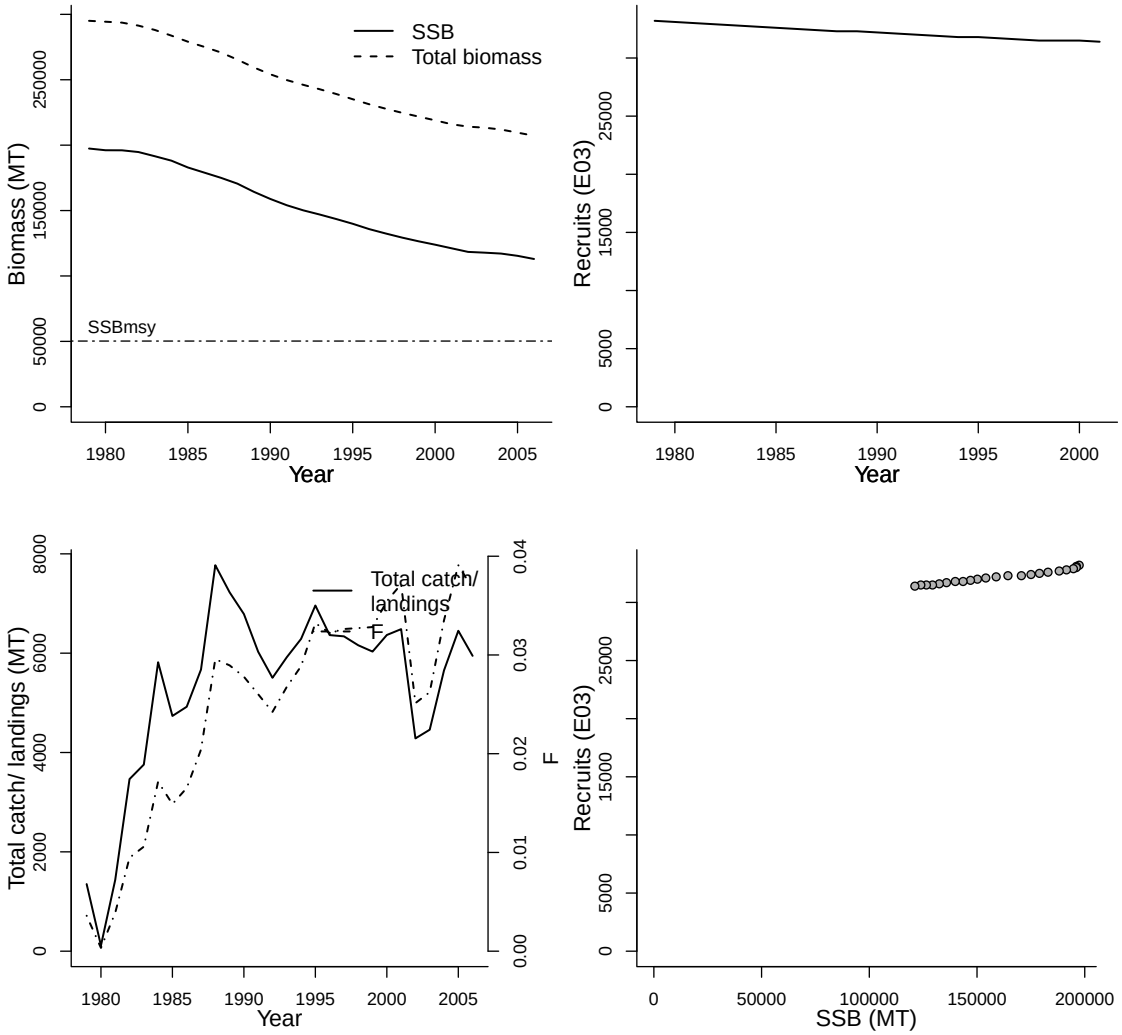
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	5	yr
TB-AGE-yr	5	yr
A50-yr	30.5	yr
M-1/yr	0.063	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
BH-h-dimless	0.75	dimless
Fmsy-1/yr (F)	0.0955	1/yr
MSY-MT (TB)	5132.855	MT
SSBmsy-MT (SSB)	50242.75375	MT
SSB0-MT (SSB)	197417.5	MT
F_{2006}/F_{msy}	0.385	
SSB_{2006}/SSB_{msy}	2.249	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979	1979	1979	1979
Maximum year	2006	2001	2006	2006	2006
Time series minimum	112982.4	31400	0.0003339579	207166	114
Time series maximum	197417.5	33200	0.03908979	295065	7771
Units	MT	E03	1/yr	MT	MT



Assessment of West end of Chatham Rise smooth oreo (*Pseudocyttus maculatus*)

Assessment
ID:NZMFishDEEPWATER-SMOOTHOREOWECR-1973-2004-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/221

Area ID: New Zealand-MFish-WECR

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1973-2004
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

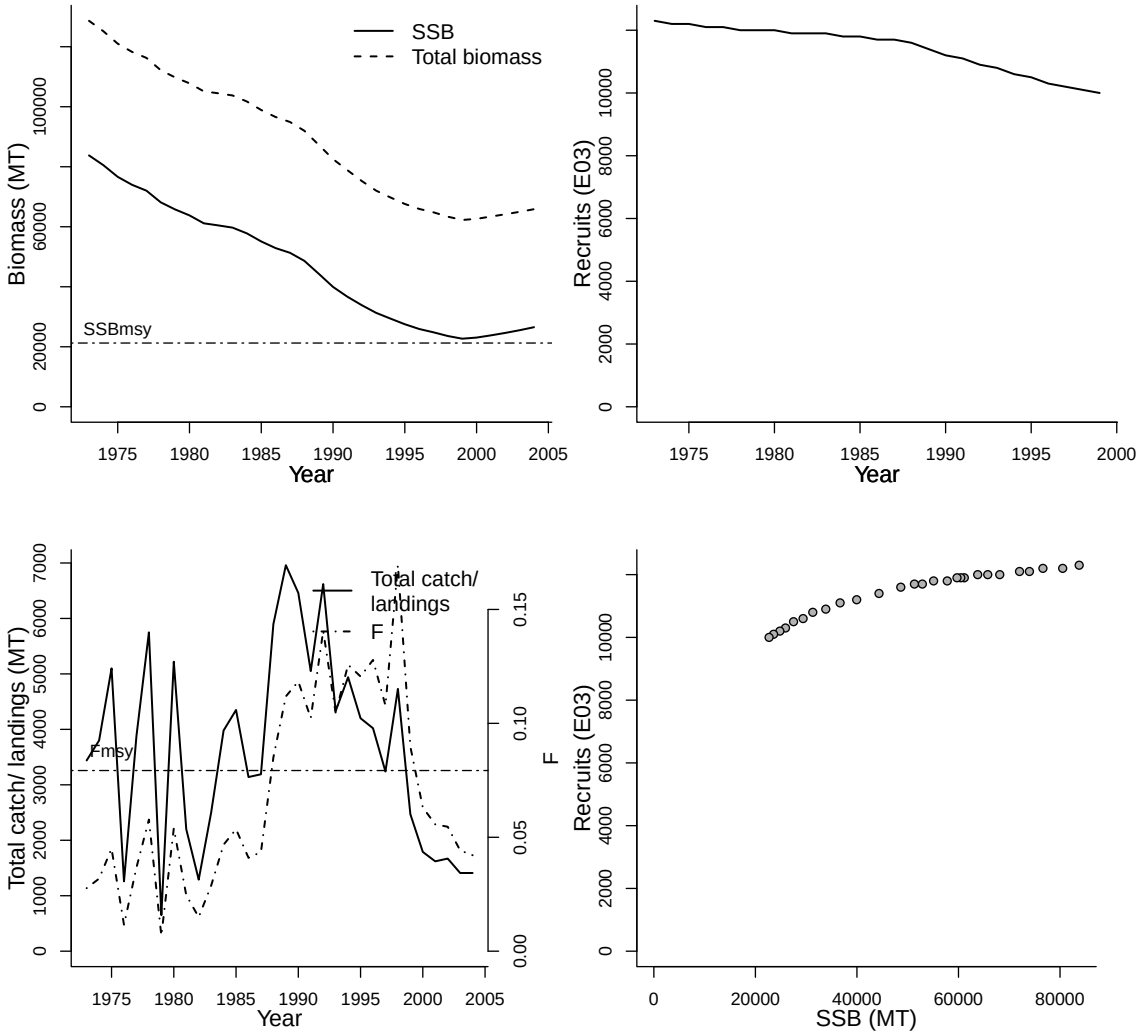
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	5	yr
TB-AGE-yr	5	yr
A50-yr	25.5	yr
M-1/yr	0.063	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.0793	1/yr
MSY-MT (TB)	2218.0808	MT
SSBmsy-MT (SSB)	21242.3892	MT
BH-h-dimless	0.75	dimless
SSB0-MT (SSB)	85310.8	MT
F_{2004}/F_{msy}	0.531	
SSB_{2004}/SSB_{msy}	1.249	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1973	1973	1973	1973	1973
Maximum year	2004	1999	2004	2004	2004
Time series minimum	22693.3	10000	0.006769455	62262	650
Time series maximum	83773.4	12300	0.1694174	128639	6960
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Area 8 (Auckland and Central West) new zealand snapper (*Chrysophrys auratus*)

Assessment ID:NZMFishINSHOREWG-NZSNAPNZ8-1931-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/193

Area ID: New Zealand-MFish-8

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1931-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

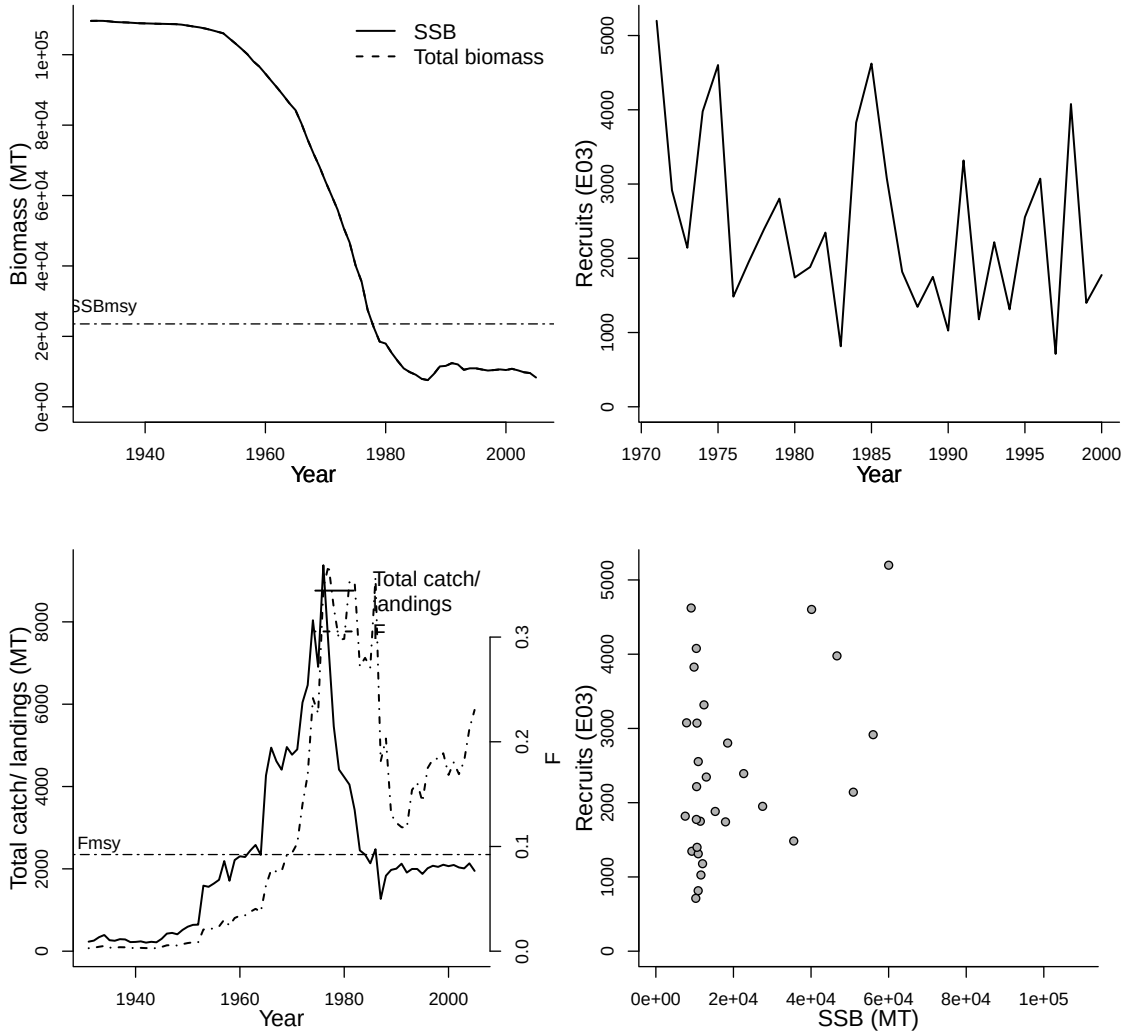
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	3	yr
TB-AGE-yr	3	yr
A50-yr	3	yr
M-1/yr	0.0507649	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.0923	1/yr
MSY-MT (TB)	2284.7076	MT
SSBmsy-MT (SSB)	23536.1148	MT
SSB0-MT (SSB)	120884	MT
BH-h-dimless	1	dimless
F_{2005}/F_{msy}	2.497	
SSB_{2005}/SSB_{msy}	0.353	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1931	1971	1931	1931	1931
Maximum year	2005	2000	2005	2005	2005
Time series minimum	7570.19	711.922	0.002787383	7570.19	207.95
Time series maximum	109631	5198.47	0.3686518	109631	9376.26
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas TRE 7 trevally (*Pseudocaranx dentex*)

Assessment
ID:NZMFishINSHOREWG-TREVALLYTRE7-1944-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/189

Area ID: New Zealand-MFish-TRE7

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1944-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

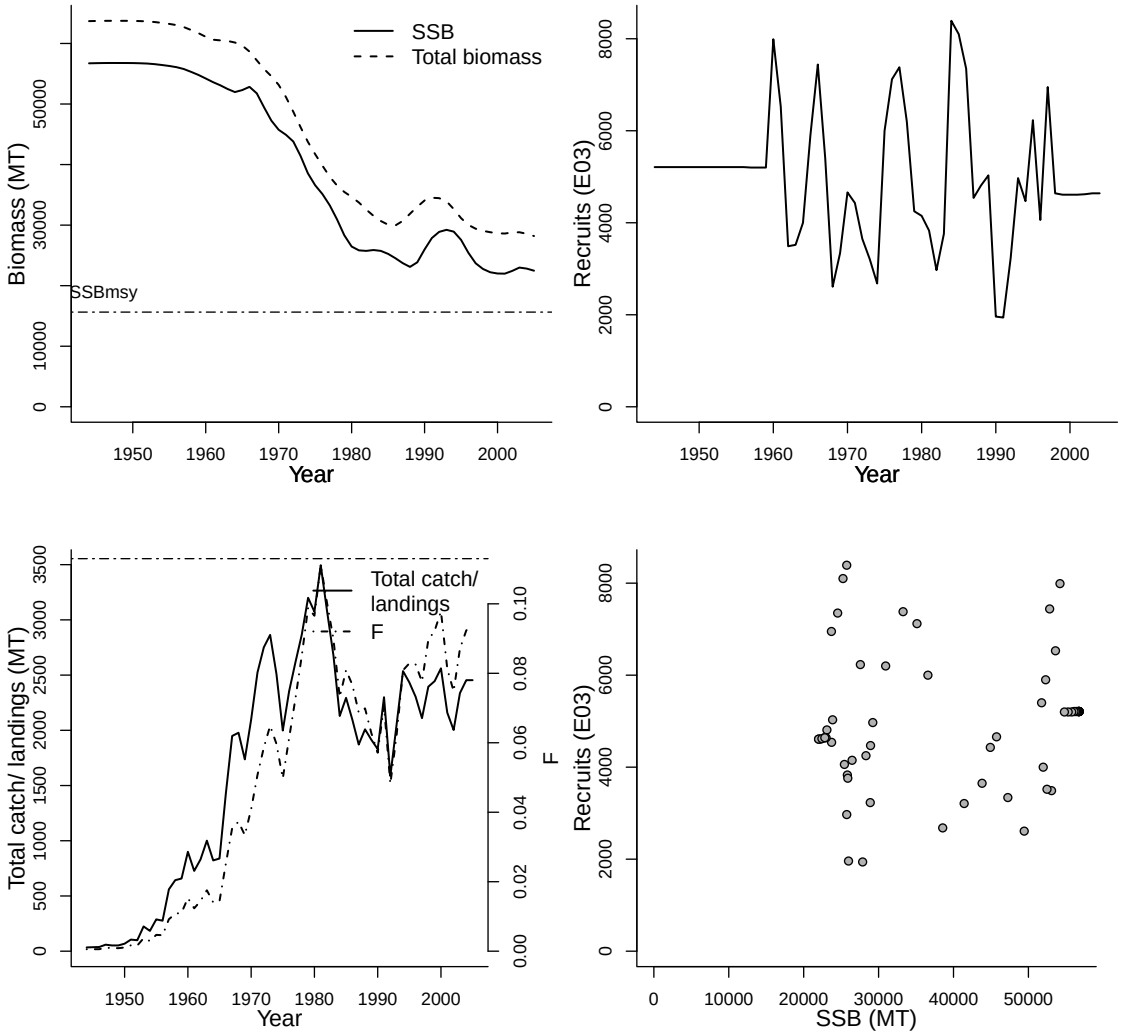
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	5	yr
M-1/yr	0.1	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.113	1/yr
MSY-MT (TB)	2170.41121	MT
SSBmsy-MT (SSB)	15634.89433	MT
SSB0-MT (SSB)	56668.7	MT
BH-h-dimless	0.75	dimless
F_{2005}/F_{msy}	0.830	
SSB_{2005}/SSB_{msy}	1.437	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1944	1944	1944	1944	1944
Maximum year	2005	2004	2005	2005	2005
Time series minimum	21986.7	1940	0.0005609535	28199.1	34
Time series maximum	56775.6	8390	0.1111157	63741.4	3495
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Area CRA1 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA1-1945-2001-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/223

Area ID: New Zealand-MFish-CRA1

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

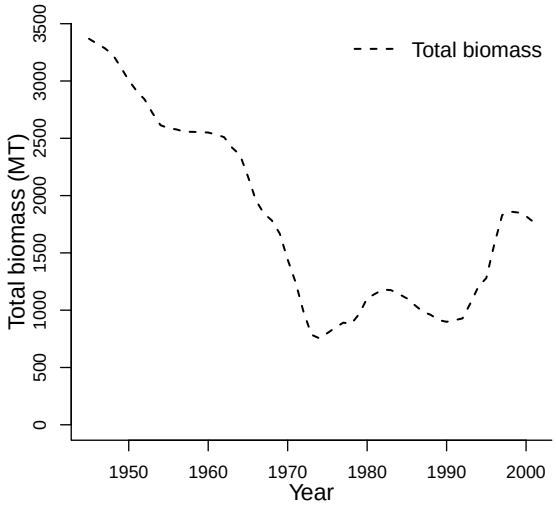
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

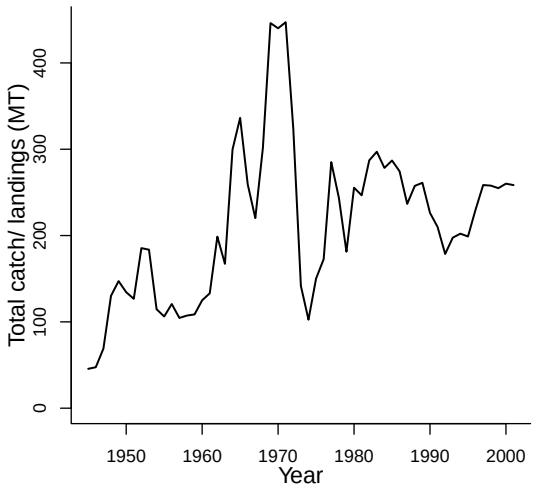
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2001	2001
Time series minimum				754.296	45.6
Time series maximum				3368.26	447.16
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area CRA2 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA2-1945-2001-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/224

Area ID: New Zealand-MFish-CRA2

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

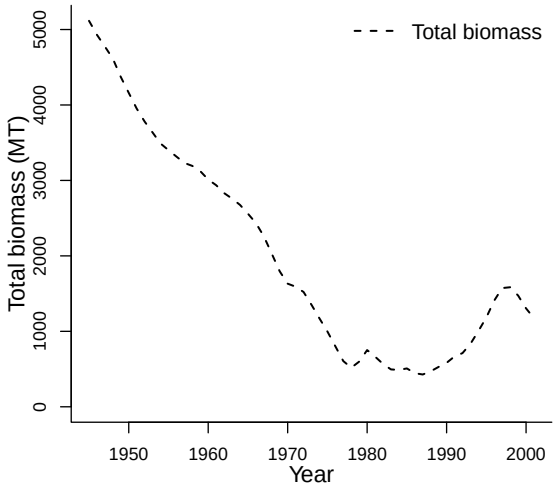
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

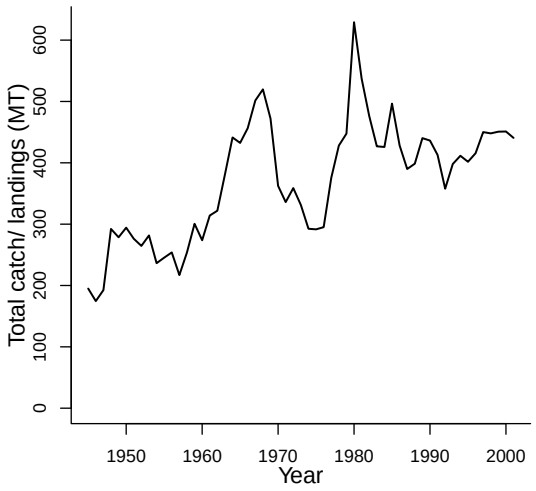
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2001	2001
Time series minimum				427.88	174.55
Time series maximum				5115.49	629.2
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area CRA3 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA3-1945-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/225

Area ID: New Zealand-MFish-CRA3

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

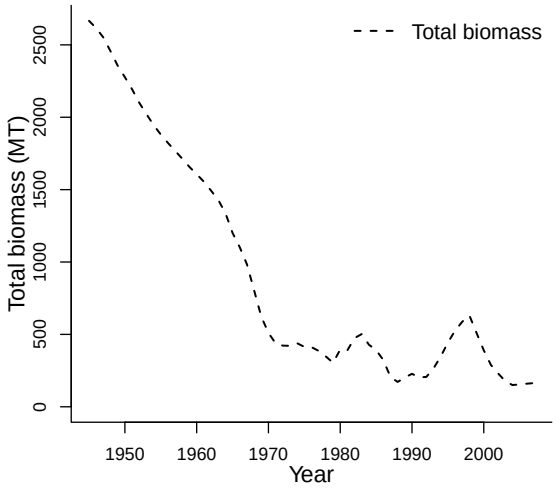
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

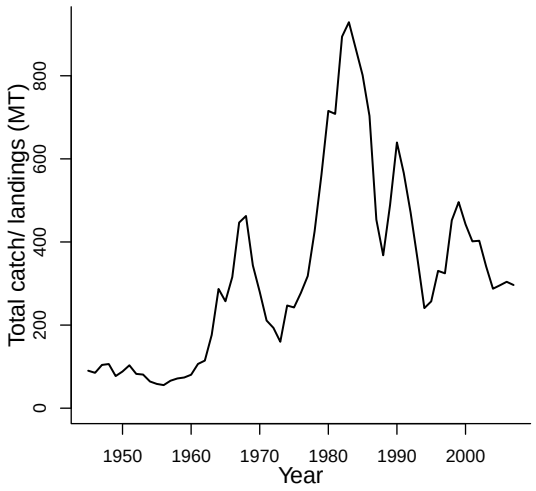
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2007	2007
Time series minimum				150.126	55.55
Time series maximum				2666.275	928.87
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area CRA4 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA4-1945-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/226

Area ID: New Zealand-MFish-CRA4

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

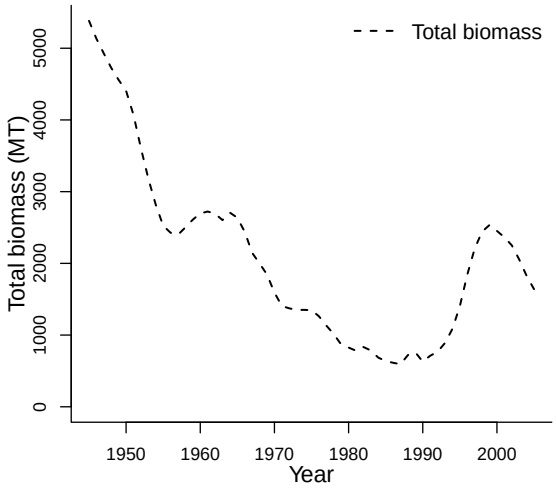
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

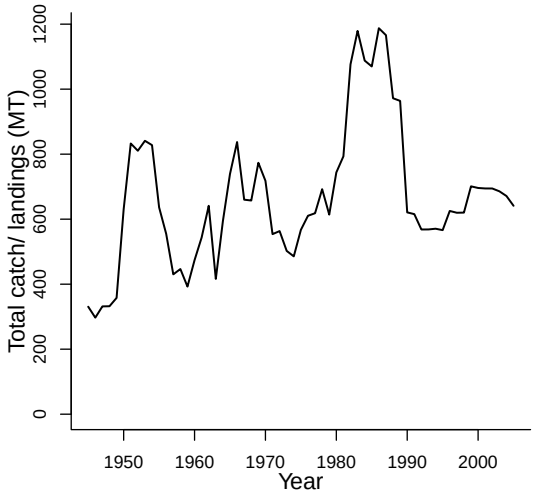
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2005	2005
Time series minimum				593.7095	297.03
Time series maximum				5382.51	1187.51
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area CRA5 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA5-1945-2002-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/227

Area ID: New Zealand-MFish-CRA5

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2002
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

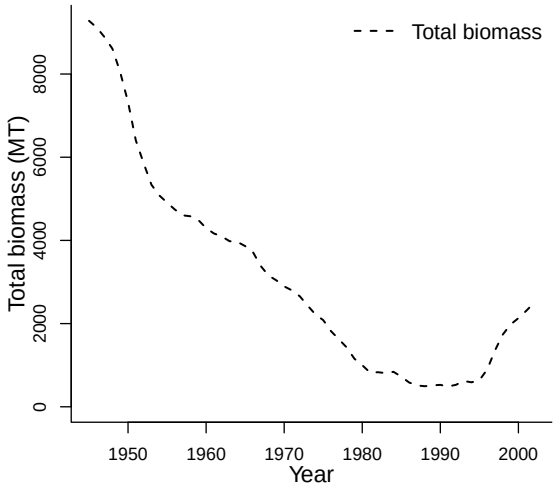
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

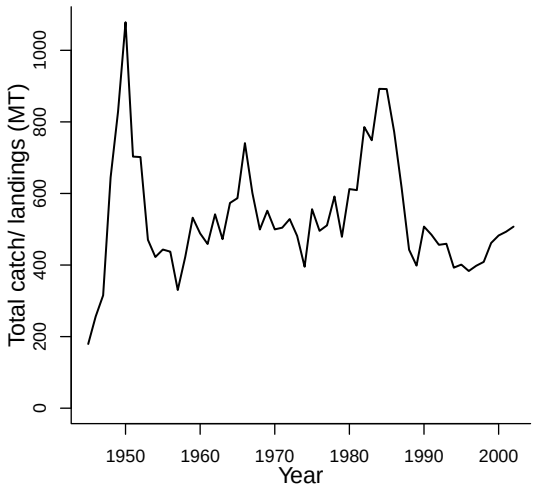
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1945	1945
Maximum year				2002	2002
Time series minimum				488.143	179.4
Time series maximum				9279.575	1078.51
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area CRA7 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA7-1976-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/228

Area ID: New Zealand-MFish-CRA7

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

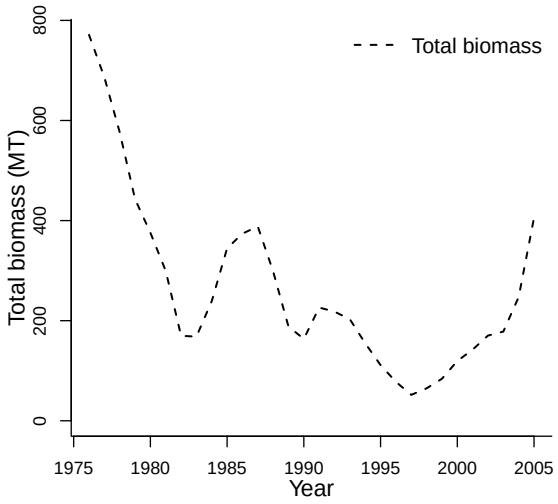
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

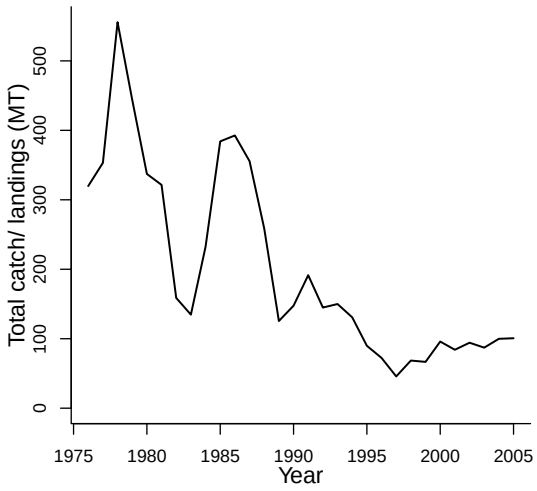
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1976	1976
Maximum year				2005	2005
Time series minimum				51.77465	45.73
Time series maximum				771.2135	555.66
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area CRA8 red rock lobster (*Jasus edwardsii*)

Assessment
ID:NZMFishLOBSTERWG-RROCKLOBSTERCRA8-1976-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/229

Area ID: New Zealand-MFish-CRA8

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2009-06-09
QA/QC complete	NO
Date approved	

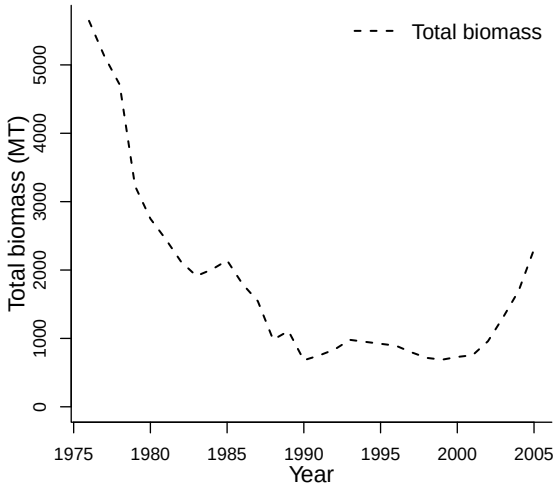
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

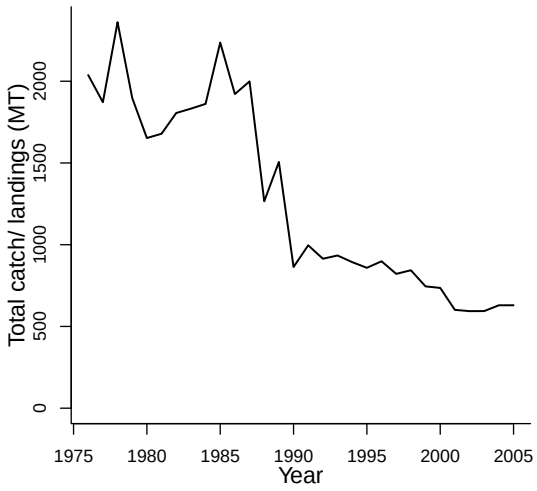
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year				1976	1976
Maximum year				2005	2005
Time series minimum				680.624	593.58
Time series maximum				5645	2360.96
Units				MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand common gemfish (*Rexea solandri*)

Assessment
ID:NZMFishMIDDEPTHSWG-GEMFISHNZ-1952-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/182

Area ID: New Zealand-MFish-NZ

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1952-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

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

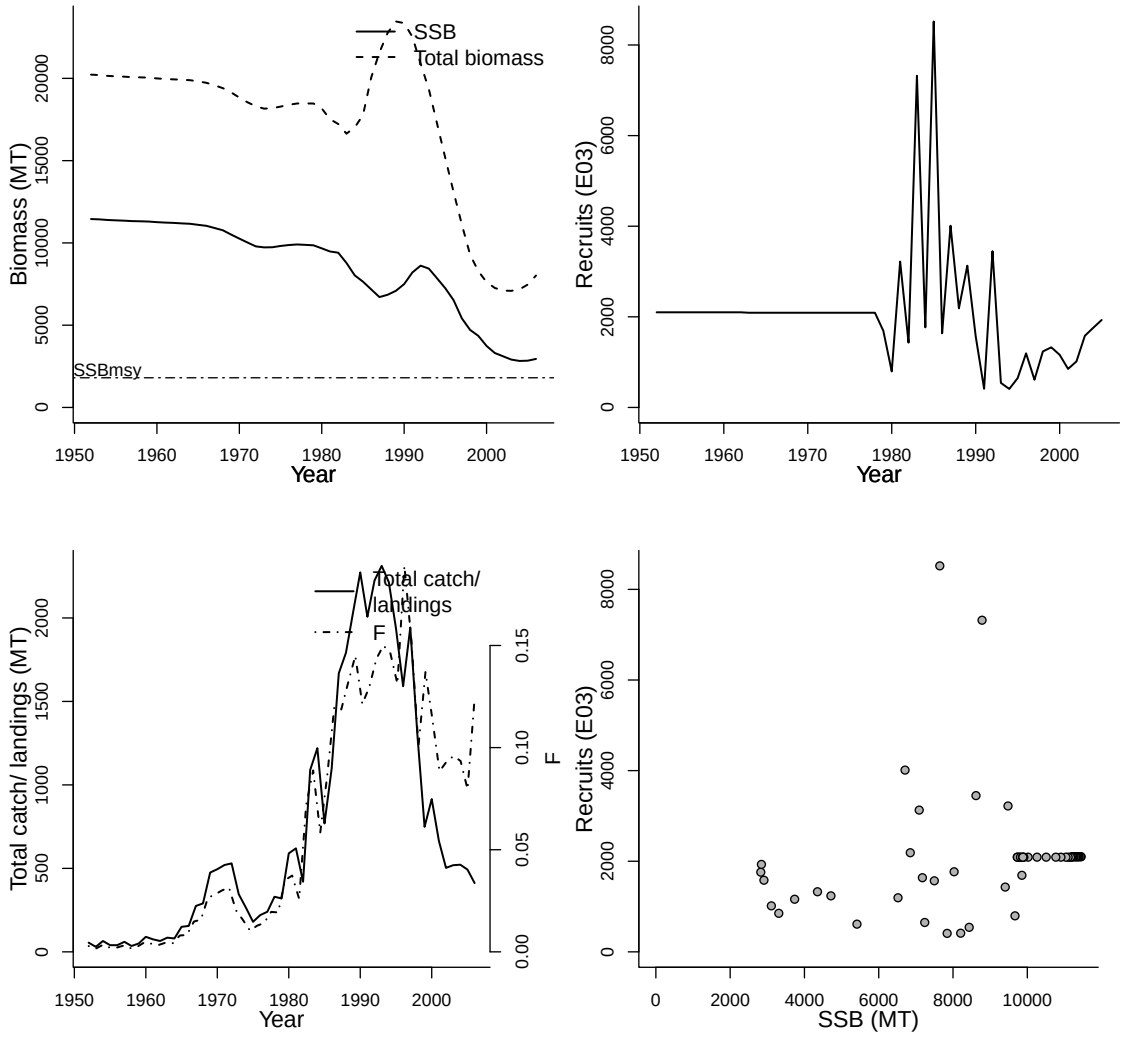
primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	8	yr
M-1/yr	0.24	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points

Parameter	Value	Units
SSB0-MT (SSB)	11484.6666666667	MT
MSY-MT (TB)	1432.04273333333	MT
SSBmsy-MT (SSB)	1803.02616666667	MT
Fmsy-1/yr (F)	0.289566666666667	1/yr
BH-h-dimless	0.9	dimless
F_{2007}/F_{msy}	0.429	
SSB_{2006}/SSB_{msy}	1.636	

Time series minima and maxima				
	SSB	R	F	TB
Minimum year	1952	1952	1952	1952
Maximum year	2006	2005	2007	2006
Time series minimum	2825.23	408.241333333333	0.00153075366666667	7086.31
Time series maximum	11450.2	8519.18333333333	0.188977266666667	23459.0666666667
Units	MT	E03	1/yr	MT



Assessment of New Zealand Areas LIN 3 and 4 ling (*Genypterus blacodes*)

Assessment ID:NZMFishMIDDEPTHSWG-NZLINGLIN3-4-1972-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/157

Area ID: New Zealand-MFish-LIN3-4

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

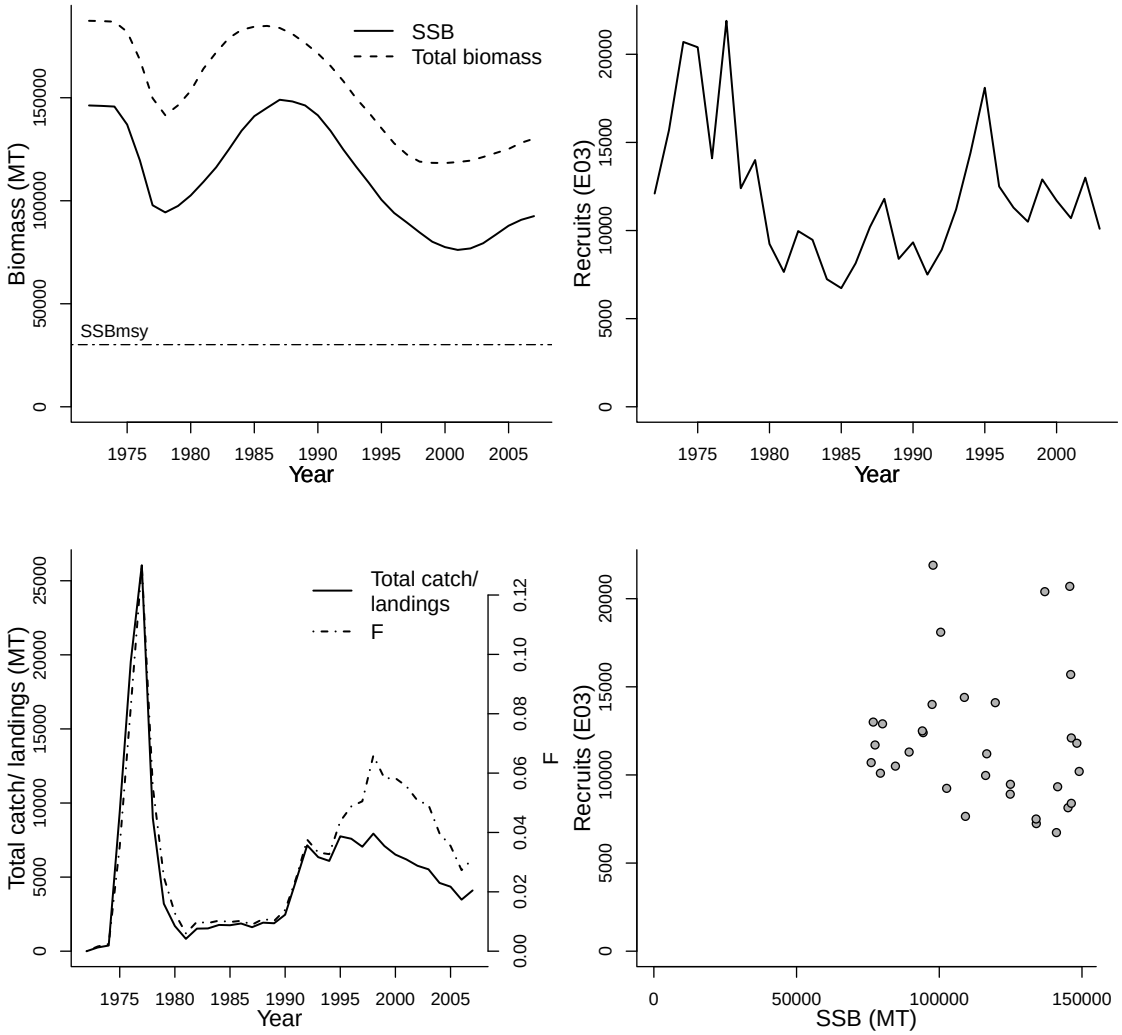
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	3	yr
TB-AGE-yr	3	yr
A50-yr	9	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	146255	MT
MSY-MT (TB)	9755.2085	MT
SSBmsy-MT (SSB)	30157.781	MT
Fmsy-1/yr (F)	0.354	1/yr
BH-h-dimless	0.9	dimless
F_{2007}/F_{msy}	0.088	
SSB_{2007}/SSB_{msy}	3.069	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2003	2007	2007	2007
Time series minimum	76136.8	6730	0	118300	0
Time series maximum	149018	21900	0.1300457	187345	26049
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 5 and 6 ling (*Genypterus blacodes*)

Assessment ID:NZMFishMIDDEPTHSWG-NZLINGLIN5-6-1972-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/159

Area ID: New Zealand-MFish-LIN5-6

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

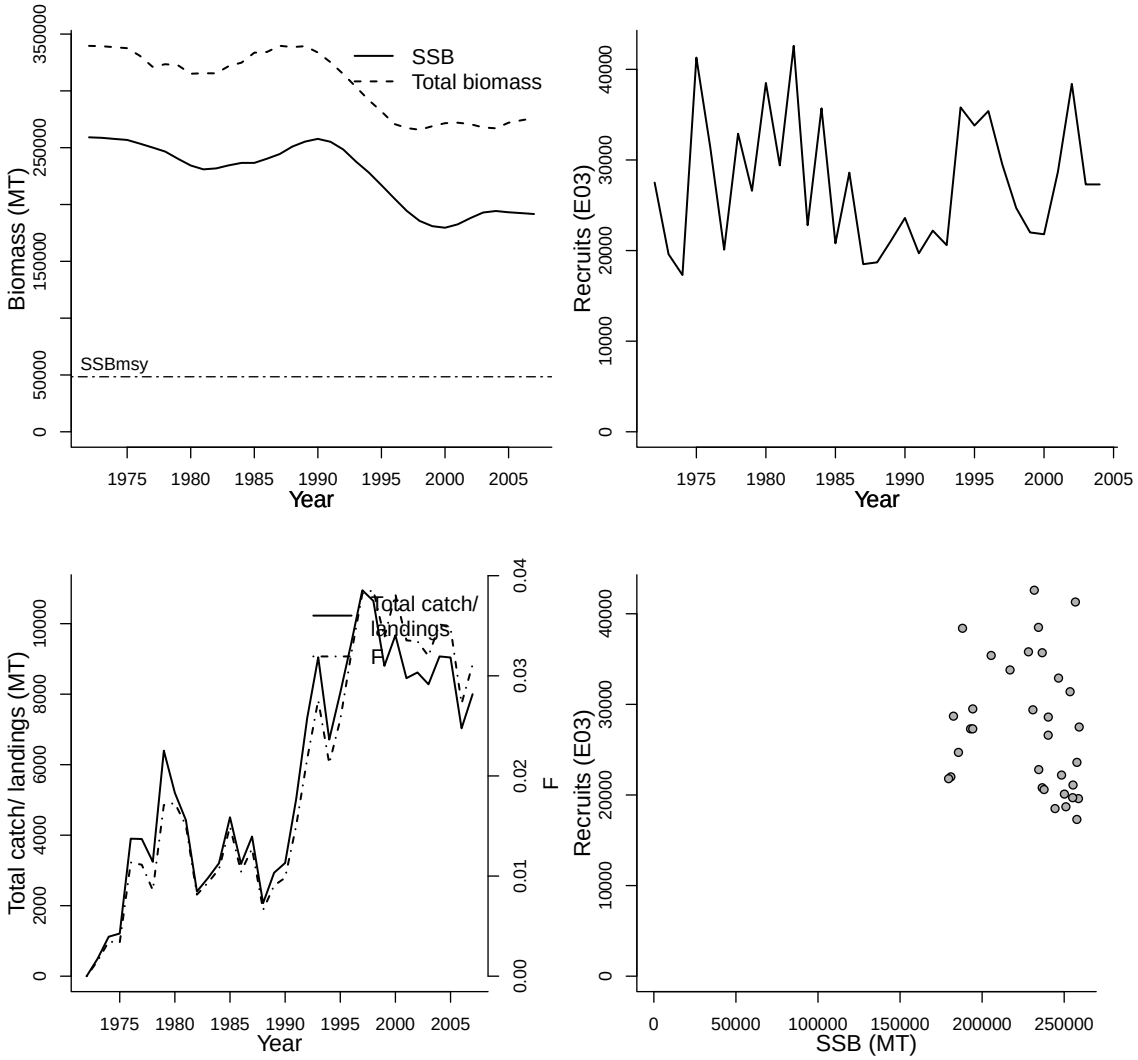
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	3	yr
TB-AGE-yr	3	yr
A50-yr	8	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	259140	MT
MSY-MT (TB)	20497.974	MT
SSBmsy-MT (SSB)	48407.352	MT
Fmsy-1/yr (F)	0.314	1/yr
BH-h-dimless	0.9	dimless
F_{2007}/F_{msy}	0.099	
SSB_{2007}/SSB_{msy}	3.959	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2004	2007	2007	2007
Time series minimum	179574	17300	0	265773	0
Time series maximum	259140	42600	0.0385508	339670	10949
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 6b ling (*Genypterus blacodes*)

Assessment
ID:NZMFishMIDDEPTHSWG-NZLINGLIN6b-1980-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/158

Area ID: New Zealand-MFish-LIN6b

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1980-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

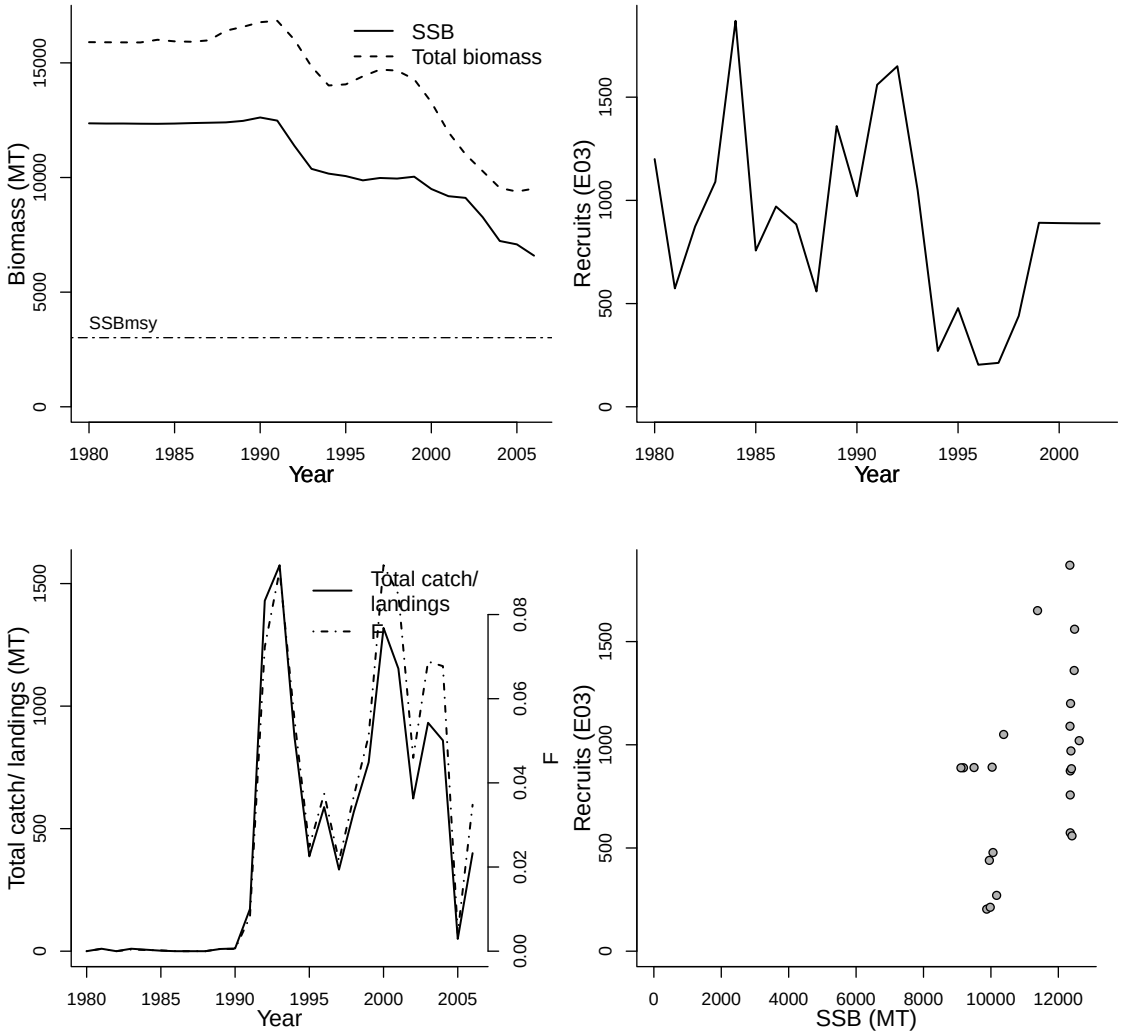
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	3	yr
TB-AGE-yr	3	yr
A50-yr	9	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	12363	MT
MSY-MT (TB)	893.8449	MT
SSBmsy-MT (SSB)	3014.0994	MT
Fmsy-1/yr (F)	0.308	1/yr
BH-h-dimless	0.9	dimless
F_{2006}/F_{msy}	0.113	
SSB_{2006}/SSB_{msy}	2.187	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1980	1980	1980	1980	1980
Maximum year	2006	2002	2006	2006	2006
Time series minimum	6591.52	203.722	0	9387.44	0
Time series maximum	12618.6	1870	0.09172329	16835	1575
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 72 ling (*Genypterus blacodes*)

Assessment
ID:NZMFishMIDDEPTHSWG-NZLINGLIN72-1972-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/160

Area ID: New Zealand-MFish-LIN72

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

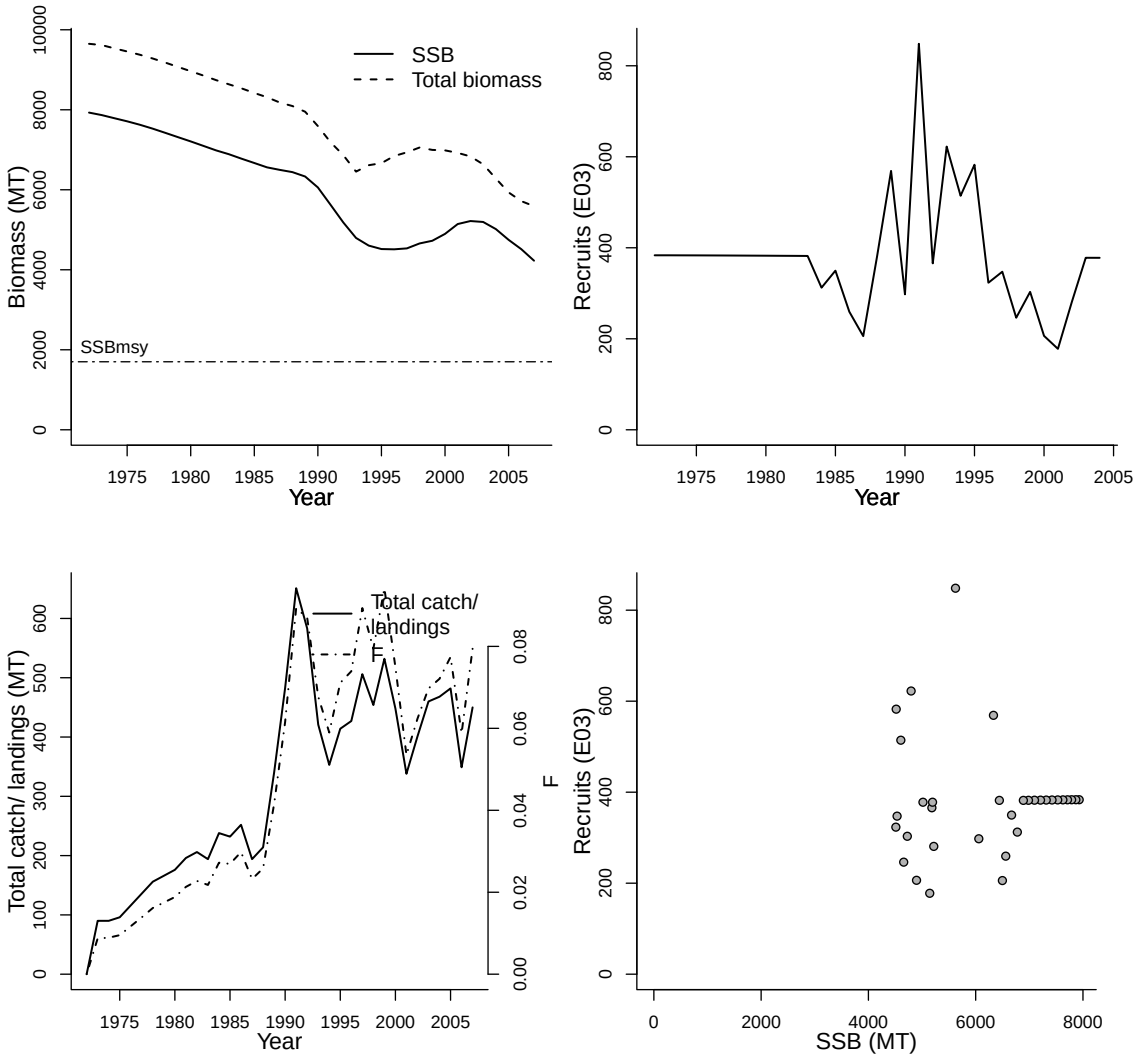
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	3	yr
TB-AGE-yr	3	yr
A50-yr	8.75	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	7929.48	MT
MSY-MT (TB)	515.8919688	MT
SSBmsy-MT (SSB)	1700.080512	MT
Fmsy-1/yr (F)	0.246	1/yr
BH-h-dimless	0.9	dimless
F_{2007}/F_{msy}	0.323	
SSB_{2007}/SSB_{msy}	2.486	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2007	2004	2007	2007	2007
Time series minimum	4227.21	177.858	0	5590.11	0
Time series maximum	7929.48	848.288	0.0942003	9649.14	651
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Areas LIN 7WC-WCSI ling (*Genypterus blacodes*)

Assessment ID:NZMFishMIDDEPTHSWG-NZLINGLIN7WC-1972-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/161

Area ID: New Zealand-MFish-LIN7WC-WCSI

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1972-2008
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

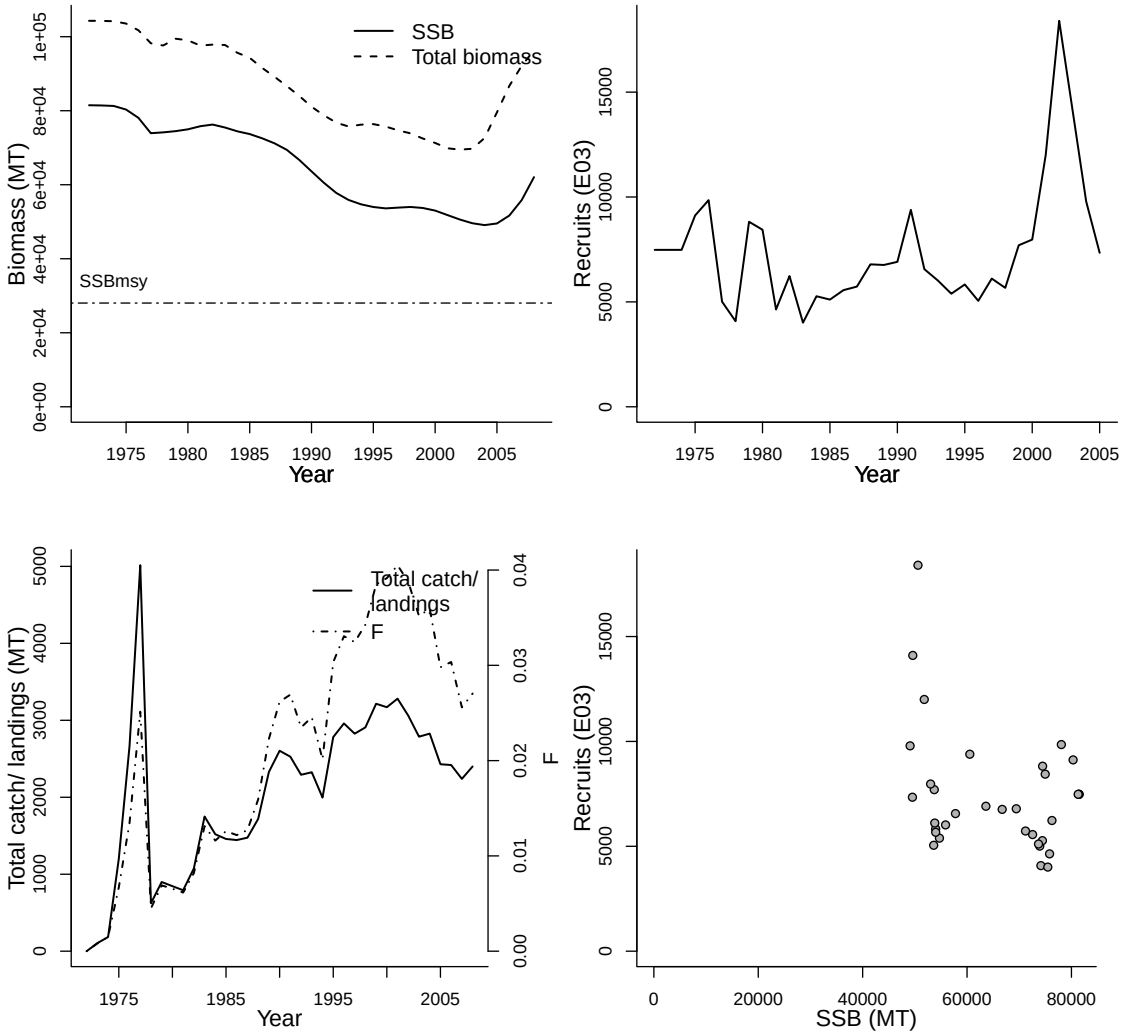
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	3	yr
TB-AGE-yr	3	yr
A50-yr	8.25	yr
M-1/yr	0.22	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
SSB0-MT (SSB)	81482.4	MT
MSY-MT (TB)	6062.29056	MT
SSBmsy-MT (SSB)	28029.9456	MT
Fmsy-1/yr (F)	0.202	1/yr
BH-h-dimless	0.9	dimless
F_{2008}/F_{msy}	0.134	
SSB_{2008}/SSB_{msy}	2.214	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2008	2005	2008	2008	2008
Time series minimum	49091.7	4010	0	69479.9	0
Time series maximum	81482.4	18400	0.04050748	104298	5015
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand - Campbell Island Rise southern blue whiting (*Micromesistius australis*)

Assessment ID:NZMFishMIDDEPTHSWG-SBWHITACIR-1979-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/190

Area ID: New Zealand-MFish-CIR

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2009-11-13
QA/QC complete	NO
Date approved	

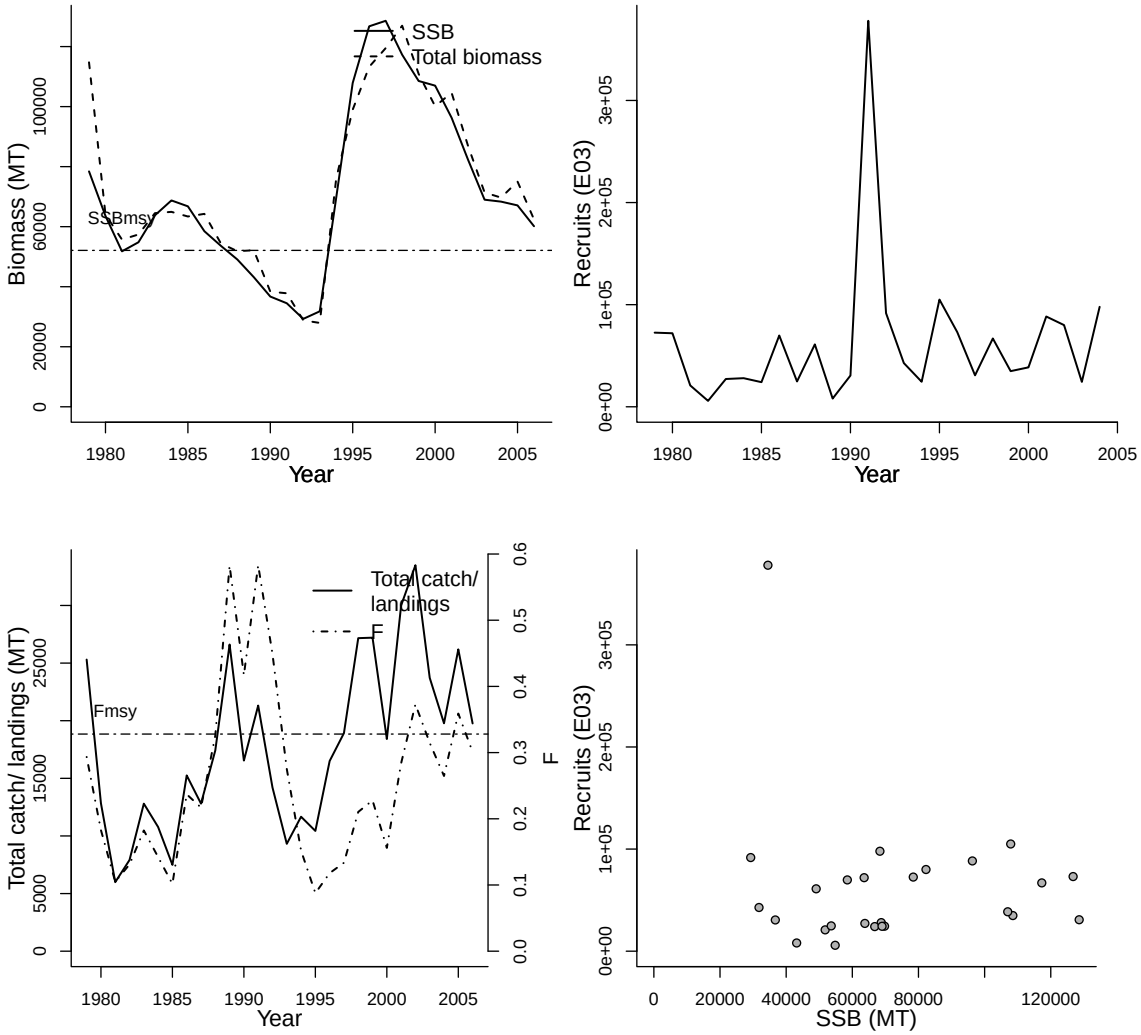
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	2	yr
TB-AGE-yr	2	yr
A50-yr	3	yr
M-1/yr	0.114	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.328	1/yr
SSBmsy-MT (SSB)	52105.0464	MT
MSY-MT (TB)	19276.2356	MT
BH-h-dimless	1	dimless
SSB0-MT (SSB)	328946.0	MT
R0-E00	5.84E+07	E00
F_{2006}/F_{msy}	0.918	
SSB_{2006}/SSB_{msy}	1.154	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1979	1979	1979	1979	1979
Maximum year	2006	2004	2006	2006	2006
Time series minimum	29281	5790	0.08767466	27935.3	5989
Time series maximum	128587	378000	0.5830936	126956	33493
Units	MT	E03	1/yr	MT	MT



Assessment of Chatham Rise southern hake (*Merluccius australis*)

Assessment
ID:NZMFishMIDDEPTHSWG-SOUTHHAKECR-1975-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/180

Area ID: New Zealand-MFish-CR

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

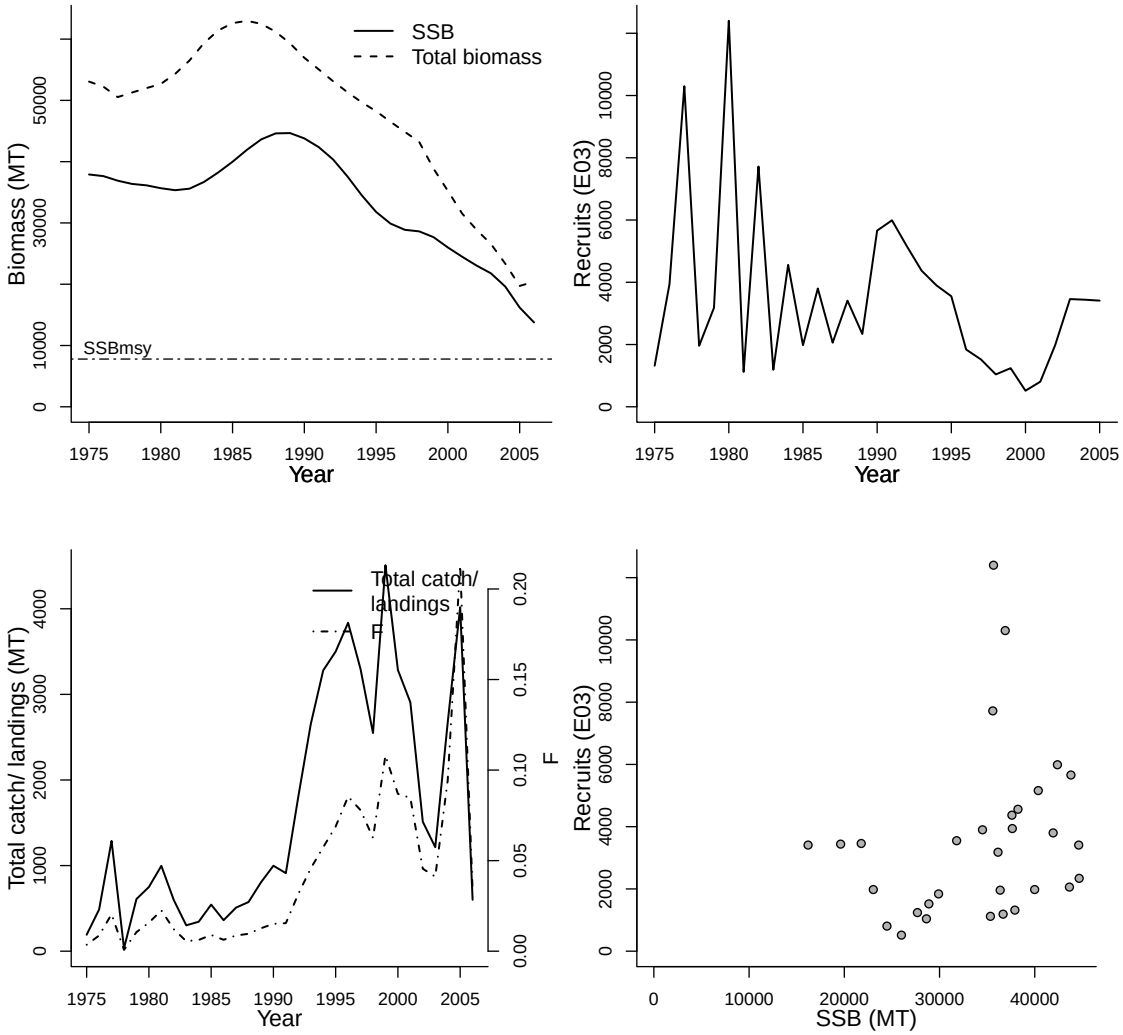
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	7	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	2.89E-01	1/yr
MSY-MT (TB)	3042.60651	MT
SSBmsy-MT (SSB)	7786.9455	MT
SSB0-MT (SSB)	37985.1	MT
BH-h-dimless	0.9	dimless
F_{2006}/F_{msy}	0.116	
SSB_{2006}/SSB_{msy}	1.768	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1975	1975	1975
Maximum year	2006	2005	2006	2006	2006
Time series minimum	13770.4	516	0.0007420451	19723.6	34
Time series maximum	44663.7	12400	0.2131267	62986.5	4509
Units	MT	E03	1/yr	MT	MT



Assessment of Sub-Antarctic southern hake (*Merluccius australis*)

Assessment
ID:NZMFishMIDDEPTHSWG-SOUTHHAKESA-1975-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/181

Area ID: New Zealand-MFish-SA

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	NULL
Assessment method	CASAL
Publication year	
Timeseries span	1975-2007
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-02-05
QA/QC complete	NO
Date approved	

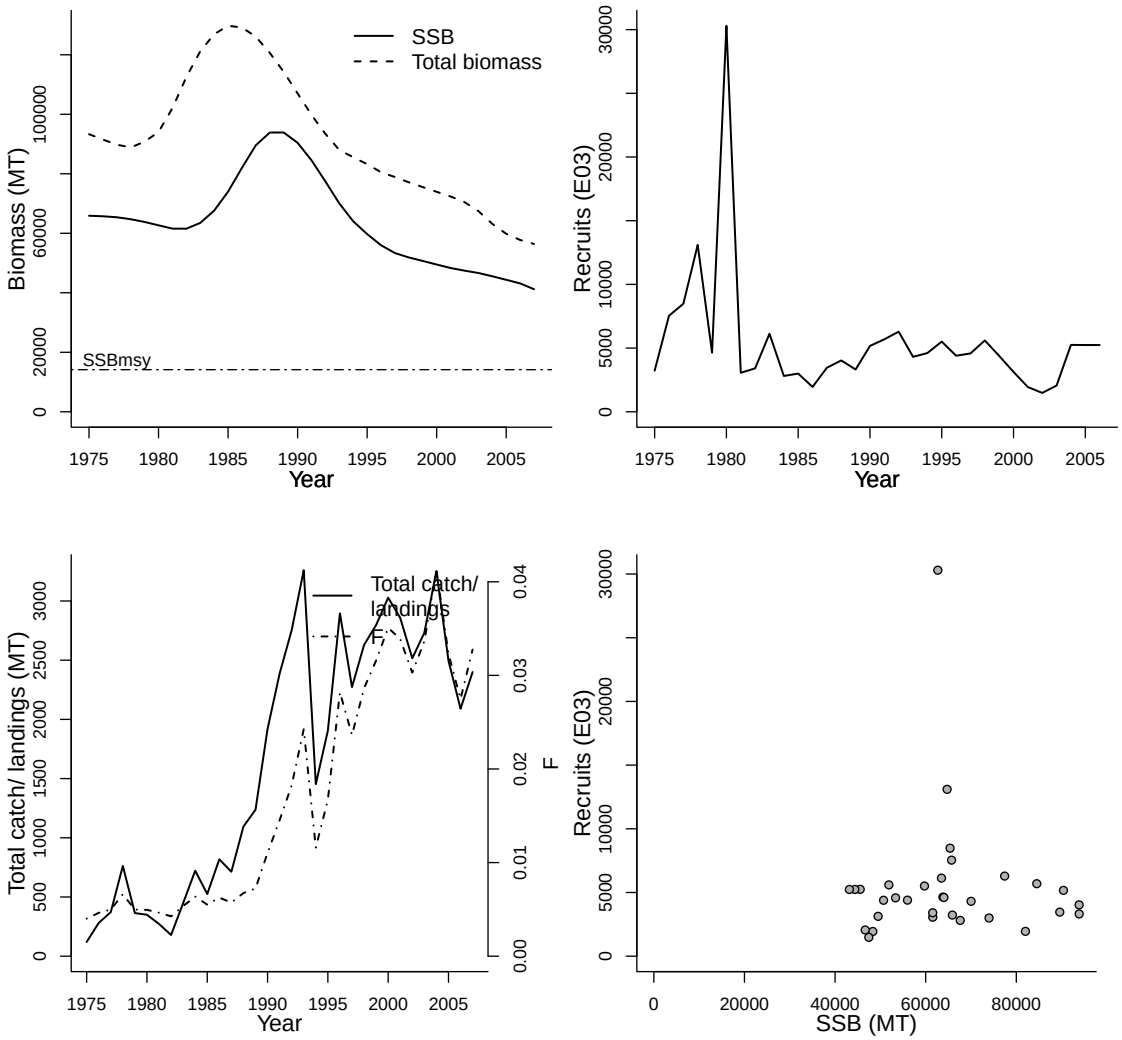
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

Parameter	Value	Units
REC-AGE-yr	1	yr
TB-AGE-yr	1	yr
A50-yr	7.25	yr
M-1/yr	0.18	1/yr
SSB-AGE-yr		
SSB-SEX-sex		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Fmsy-1/yr (F)	0.307	1/yr
MSY-MT (TB)	5810.2831	MT
SSBmsy-MT (SSB)	14153.0846	MT
SSB0-MT (SSB)	65951	MT
BH-h-dimless	0.9	dimless
F_{2007}/F_{msy}	0.107	
SSB_{2007}/SSB_{msy}	2.911	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1975	1975	1975	1975	1975
Maximum year	2007	2006	2007	2007	2007
Time series minimum	41198.1	1480	0.004012136	56399.5	120
Time series maximum	93878.8	30300	0.04123631	129739	3260
Units	MT	E03	1/yr	MT	MT



Assessment of New Zealand Area PAU 5A new zealand abalone species (*Haliotis iris*)

Assessment
ID:NZMFishSHELLFISHWG-PAUAPAU5A-1964-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/183

Area ID: New Zealand-MFish-PAU5A

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2006
Document	07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

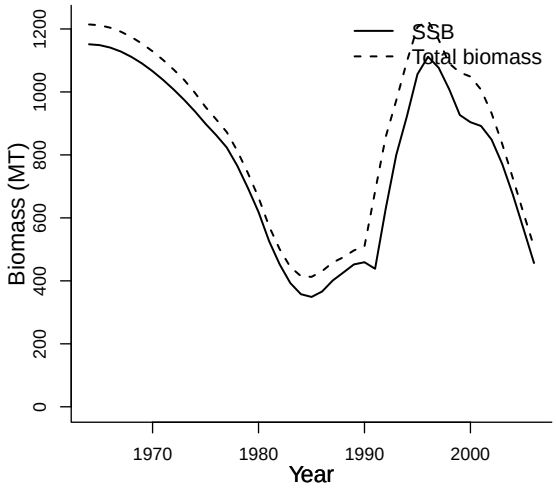
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

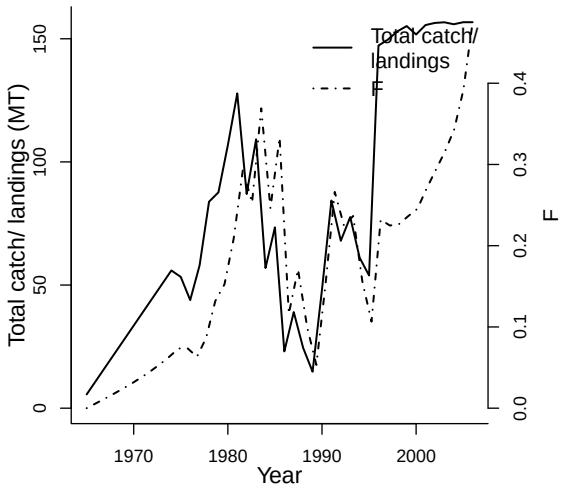
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964		1964	1964	1965
Maximum year	2006		2006	2006	2006
Time series minimum	348.871		0	412.6615	5.591
Time series maximum	1151.38		0.475108	1225.96	156.725
Units	MT		ratio	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area PAU 5B (Stewart Island) new zealand abalone species (*Haliotis iris*)

Assessment ID:NZMFishSHELLFISHWG-PAUAPAU5B-1963-2007-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/185

Area ID: New Zealand-MFish-PAU5B

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1963-2007
Document	08-05-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

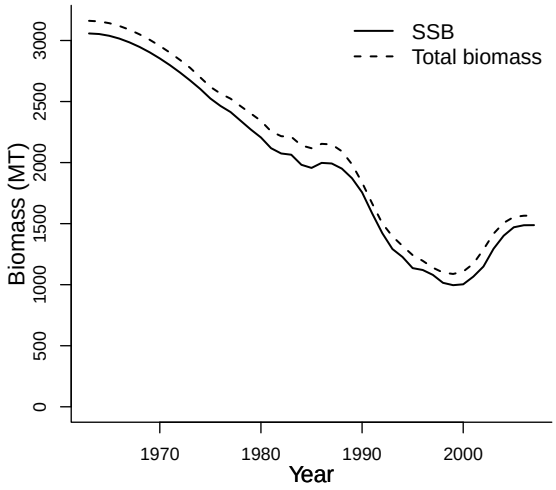
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

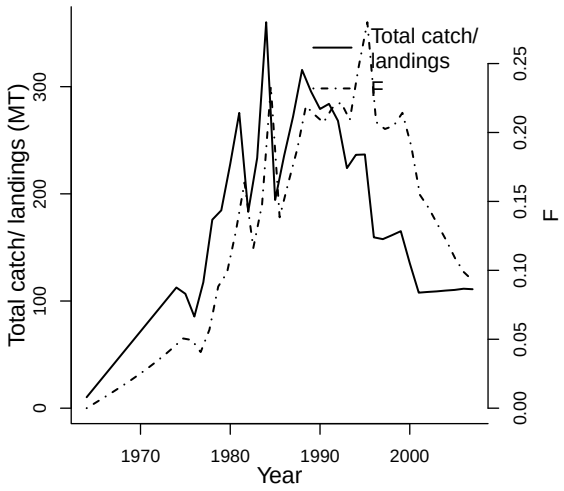
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1963		1963	1963	1964
Maximum year	2007		2007	2007	2007
Time series minimum	995.966		0	1087.835	10.235
Time series maximum	3057.775		0.2800015	3161.35	360.148
Units	MT		ratio	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area PAU 5D (Otago) new zealand abalone species (*Haliotis iris*)

Assessment
ID:NZMFishSHELLFISHWG-PAUAPAU5D-1964-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/184

Area ID: New Zealand-MFish-PAU5D

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2006
Document	07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

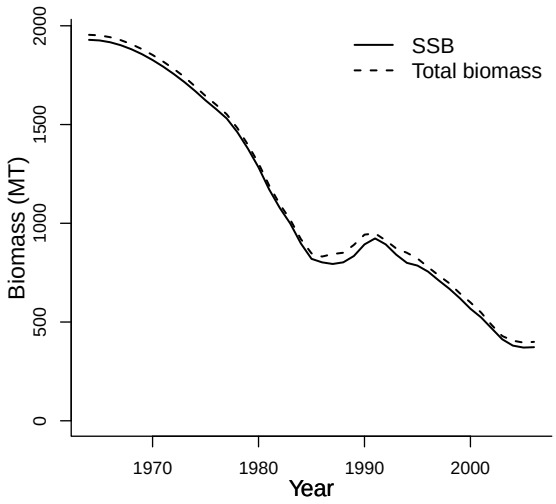
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

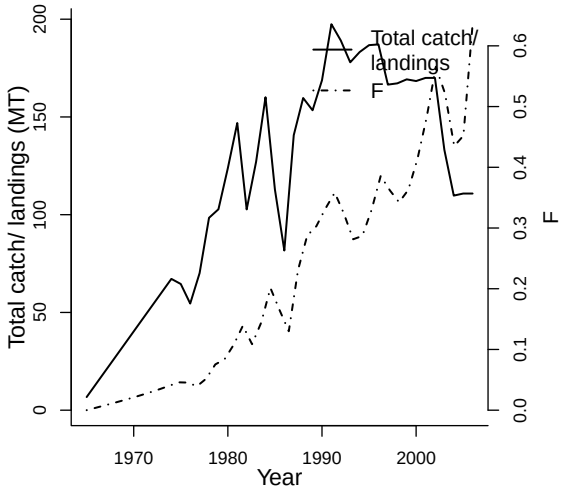
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964		1964	1964	1965
Maximum year	2006		2006	2006	2006
Time series minimum	370.6535		0	395.837	6.717
Time series maximum	1928.83		0.6356325	1954.34	197.437
Units	MT		ratio	MT	MT



No recruitment data available



No SSB−recruit data available

Assessment of New Zealand Area PAU 7 (Marlborough) new zealand abalone species (*Haliotis iris*)

Assessment ID:NZMFishSHELLFISHWG-PAUAPAU7-1964-2008-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/186

Area ID: New Zealand-MFish-PAU7

General assessment details.

Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	NULL
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2008
Document	NULL (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2009-06-10
QA/QC complete	NO
Date approved	

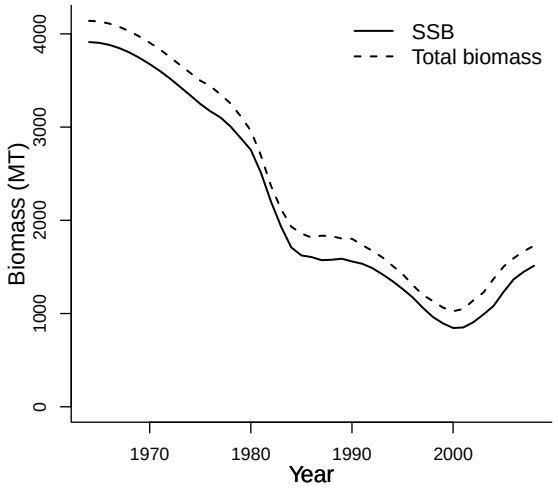
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

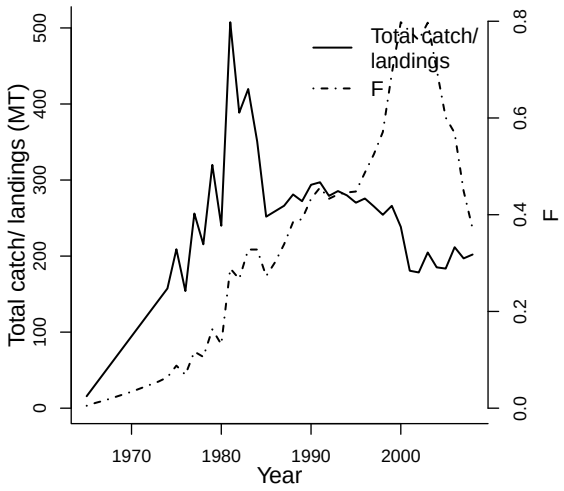
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1964		1965	1964	1965
Maximum year	2008		2008	2008	2008
Time series minimum	845.1		0.005	1025.2	15.744
Time series maximum	3911.64		0.798	4140.13	507.538
Units	MT		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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/18

Area ID: USA-NMFS-GM

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	
Assessment method	Unknown
Publication year	2007
Timeseries span	1963-2004
Document	JENSEN_GAGGM_2007.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

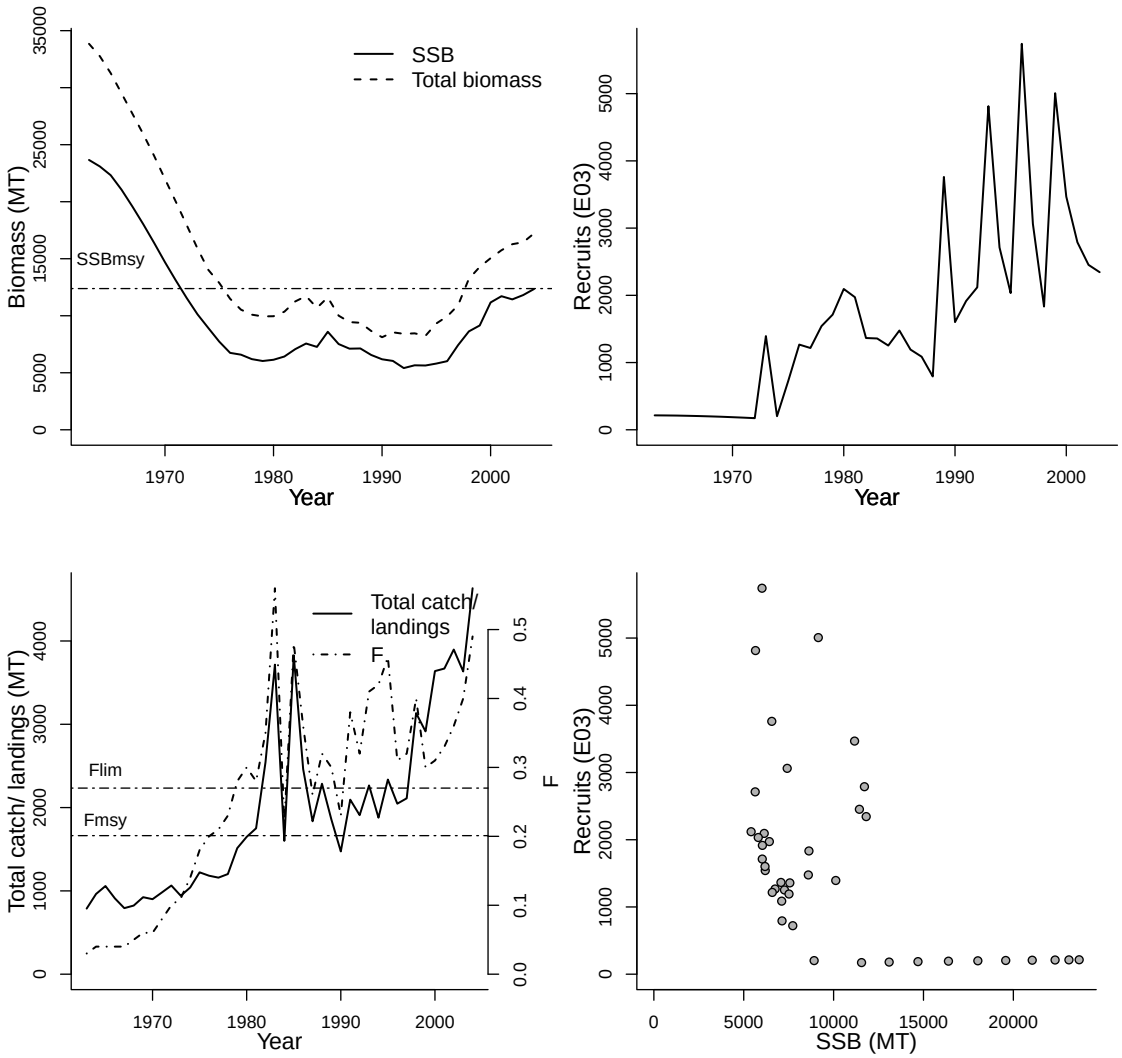
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na

Parameter	Value	Units
A50-yr	3.5	yr
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
F0.1-1/yr (F)	0.129	1/yr
Flim-1/yr (F)	0.27	1/yr
Fmax-1/yr (F)	0.201	1/yr
Fmsy-1/yr (F)	0.201	1/yr
MSY-MT (TB)	2241.65	MT
SSBmsy-MT (SSB)	12383.06	MT
F_{2004}/F_{lim}	1.815	
F_{2004}/F_{msy}	2.438	
SSB_{2004}/SSB_{msy}	0.997	

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	172.637	0.03	8116.58	787.44
Time series maximum	23661.63	5741.39	0.56	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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/17

Area ID: USA-NMFS-SATLC

General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2006
Timeseries span	1962-2005
Document	JENSEN_GAGSATLC_2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

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

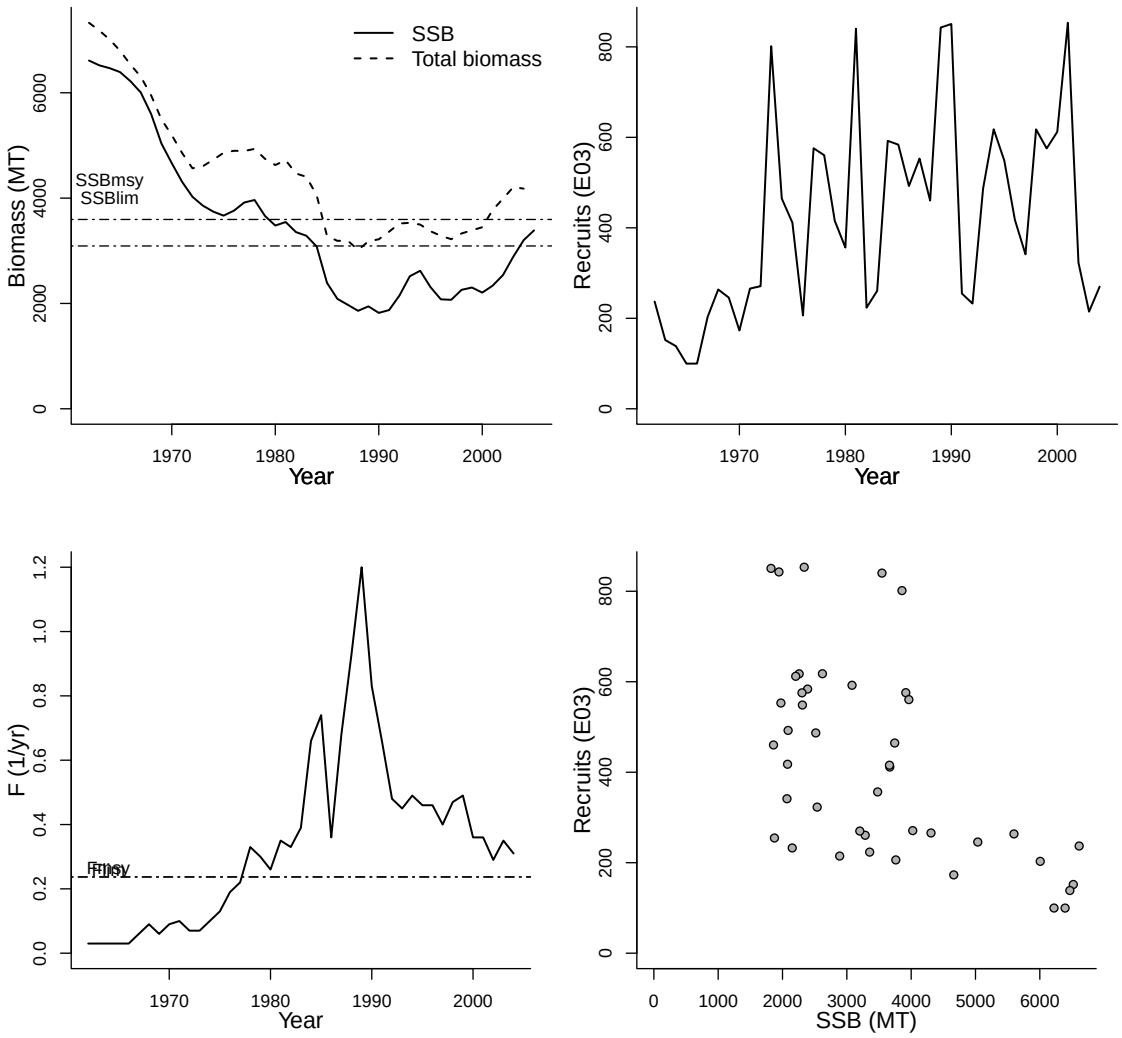
primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na

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

Reference points

Parameter	Value	Units
SSBlim-MT (SSB)	3091.456276	MT
Flim-1/yr (F)	0.237	1/yr
Fmsy-1/yr (F)	0.237	1/yr
MSY-MT (TB)	562	MT
SSBmsy-MT (SSB)	3594.7166	MT
SSB_{2005}/SSB_{lim}	1.096	
F_{2004}/F_{lim}	1.308	
F_{2004}/F_{msy}	1.308	
SSB_{2005}/SSB_{msy}	0.942	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/20

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	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-16

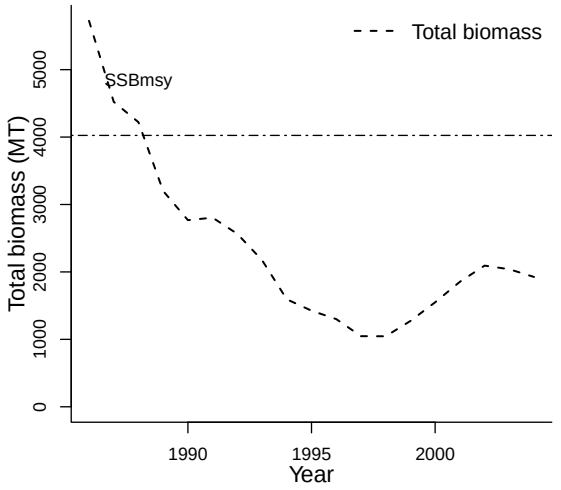
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na

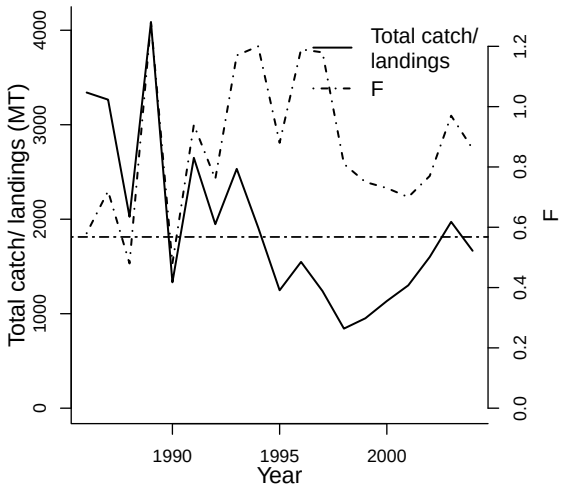
Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
SSBmsy-MT (SSB)	4024.721816	MT
Flim-1/yr (F)	0.5679	1/yr
Fmsy-1/T (F)	0.5679	1/T
MSY-MT (TB)	2285.650088	MT
F_{2004}/F_{lim}	1.514	
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



No recruitment data available



No SSB−recruit data available

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

Assessment ID:SEFSC-GRAMBERSATLC-1946-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/70

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	2008-11-23
Date last loaded	2010-02-12
QA/QC complete	NO
Date approved	

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

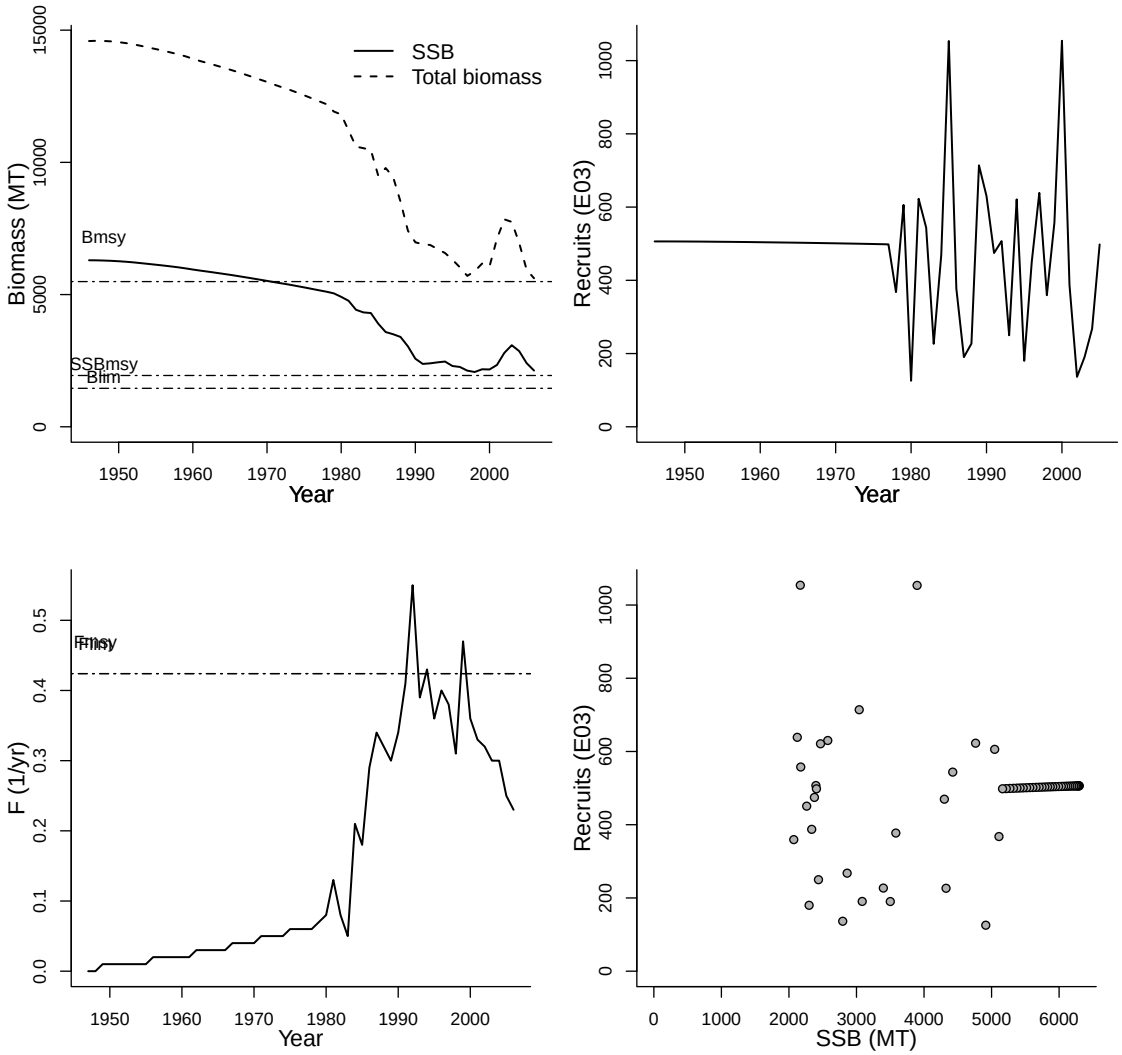
primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na

Parameter	Value	Units
M-1/yr	0.25	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Blim-MT (TB)	1455	MT
Bmsy-MT (TB)	5491	MT
Flim-1/yr (F)	0.424	1/yr
Fmsy-1/T (F)	0.424	1/T
MSY-MT (TB)	2005	MT
SSBmsy-MT (SSB)	1940	MT
F_{2006}/F_{lim}	0.542	
TB_{2006}/B_{msy}	1.023	
F_{2006}/F_{msy}	0.542	
SSB_{2006}/SSB_{msy}	1.096	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/67

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	2008-11-21
Date last loaded	2010-03-05
QA/QC complete	NO
Date approved	

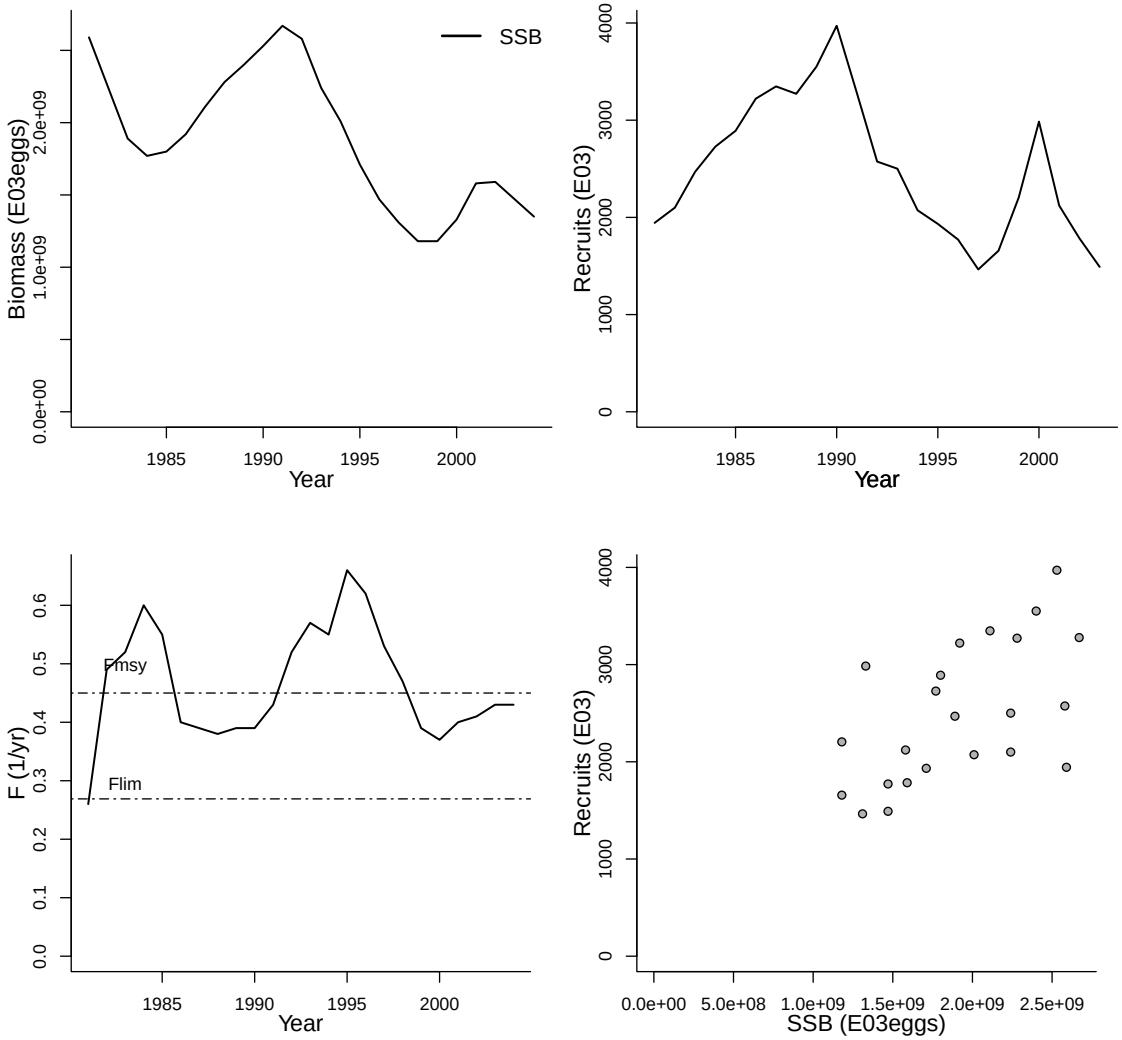
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na

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

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
SSBmsy-E03eggs	1210000000	E03eggs
F_{2004}/F_{lim}	1.599	
F_{2004}/F_{msy}	0.956	
SSB_{2004}/SSB_{msy}	1.116	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/71

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	2008-11-23
Date last loaded	2010-03-05
QA/QC complete	NO
Date approved	

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

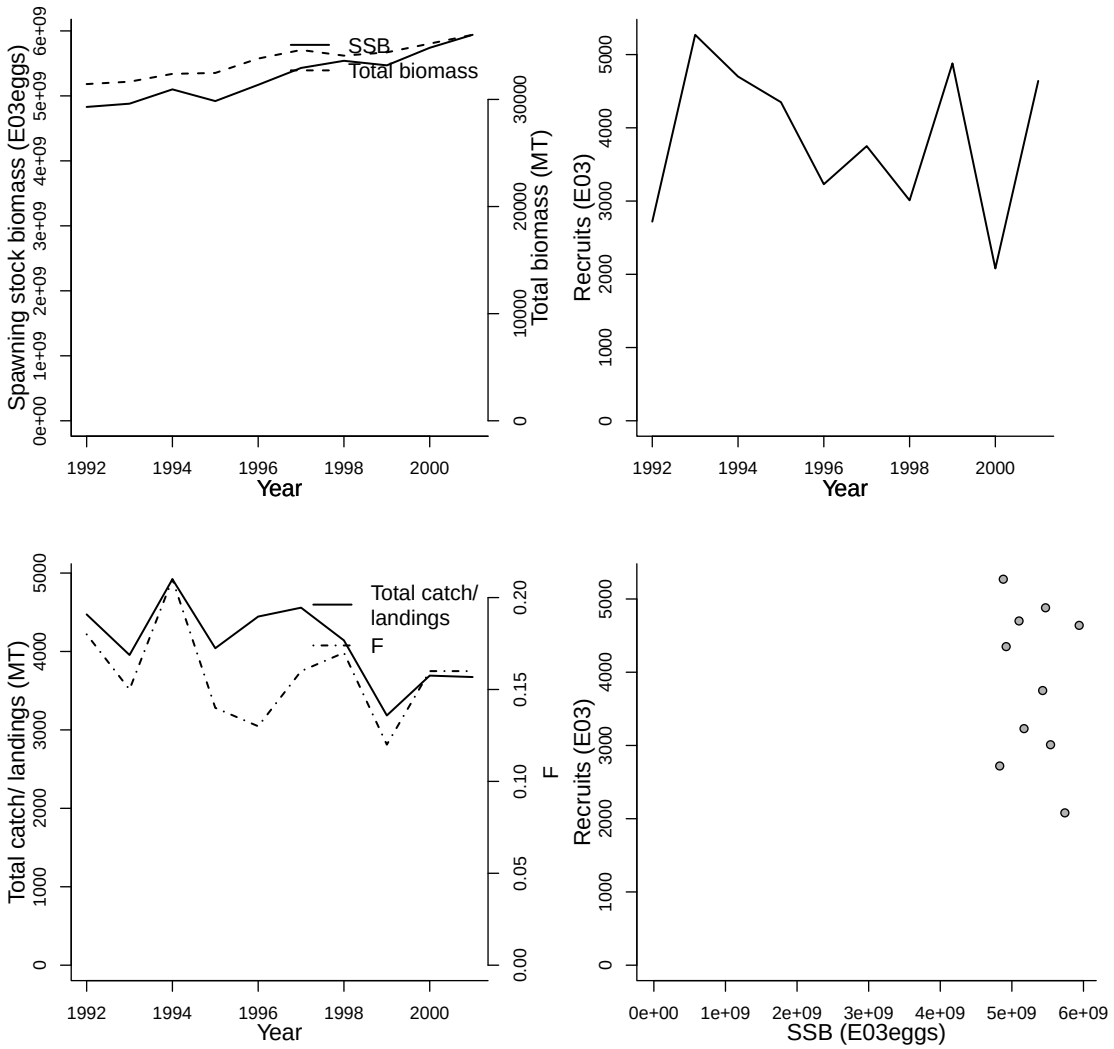
primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na

Parameter	Value	Units
M-1/yr	0.2	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points

Parameter	Value	Units
Fmsy-1/T (F)	0.269	1/T
MSY-MT (TB)	5178.659864	MT
SSBmsy-E03eggs	6385000000	E03eggs
F_{2001}/F_{msy}	0.595	
SSB_{2001}/SSB_{msy}	0.930	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/72

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	2008-11-23
Date last loaded	2009-03-25
QA/QC complete	NO
Date approved	

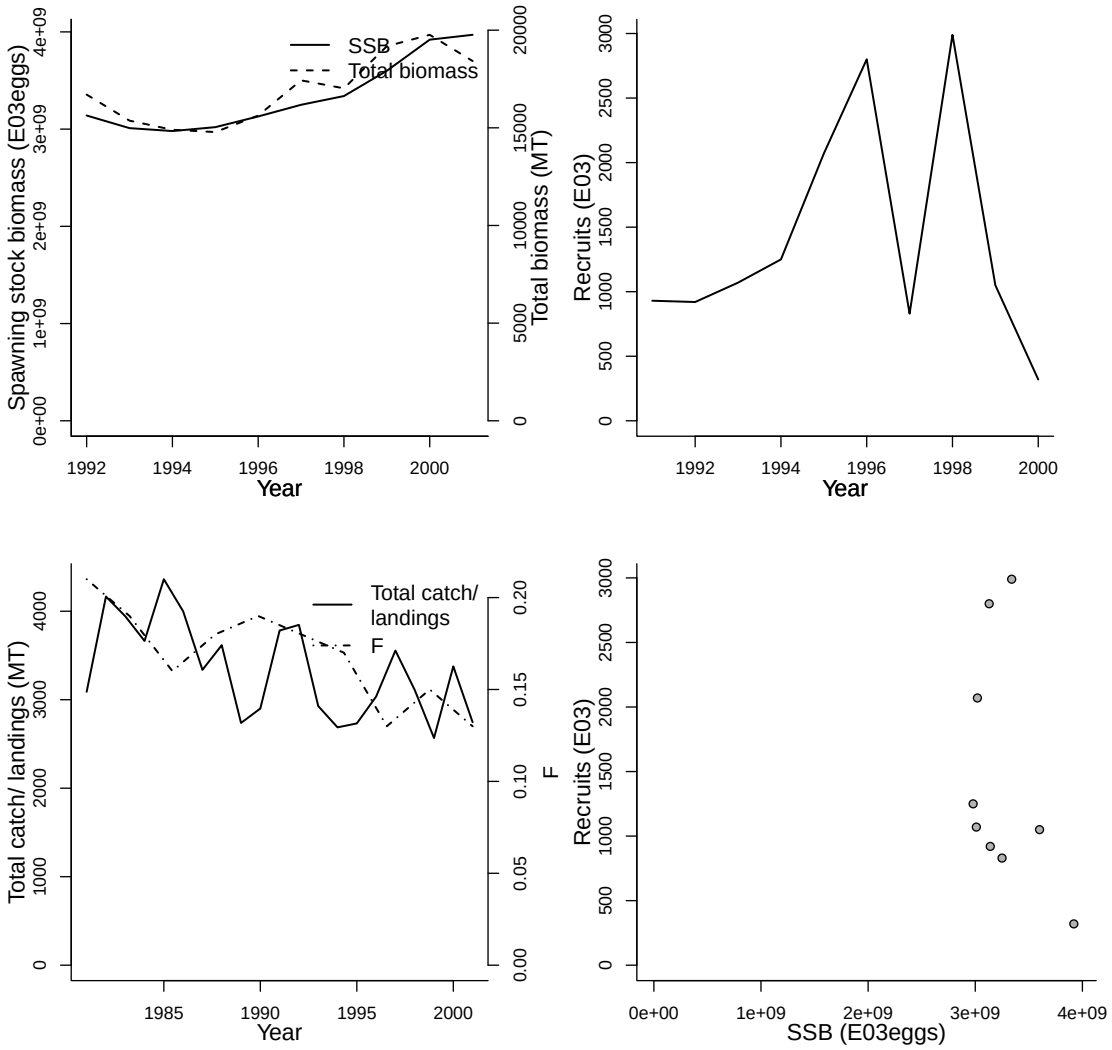
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na

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

Reference points		
Parameter	Value	Units
Fmsy-1/T (F)	0.29	1/T
MSY-MT (TB)	2576.40	MT
SSBmsy-E03eggs	2930000000	E03eggs
F_{2001}/F_{msy}	0.448	
SSB_{2001}/SSB_{msy}	1.355	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/85

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	2008-11-25
Date last loaded	2009-03-25
QA/QC complete	NO
Date approved	

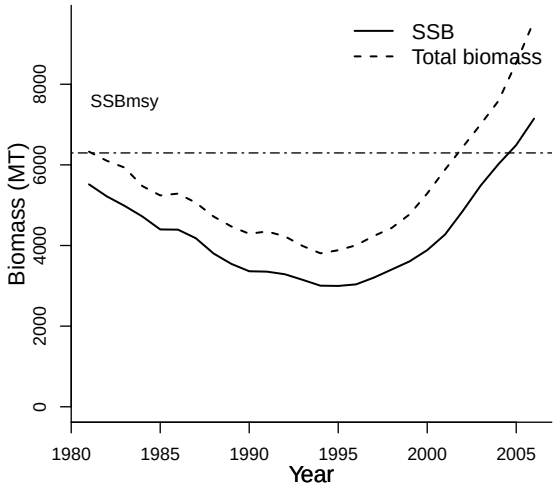
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

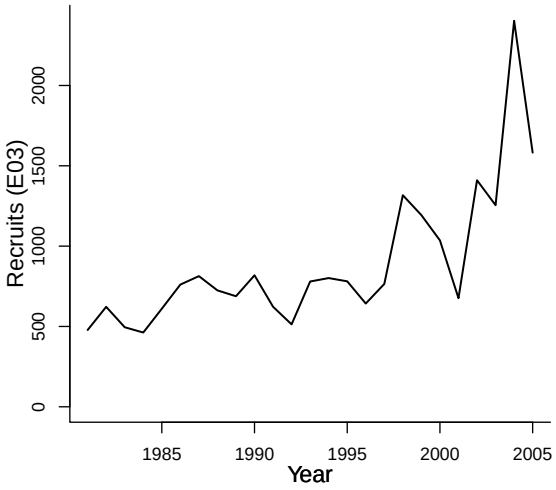
primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	5 - Gulf of Mexico	na

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

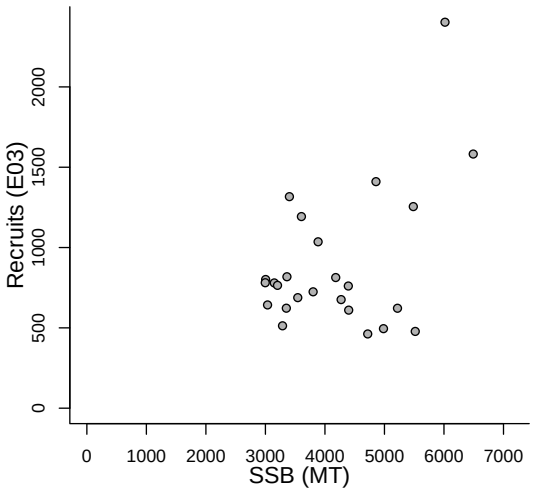
Reference points		
Parameter	Value	Units
Fmsy-1/T (F)	0.340	1/T
MSY-MT (TB)	688	MT
SSBmsy-MT (SSB)	6296	MT
SSB_{2006}/SSB_{msy}	1.135	

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	





No exploitation data available



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

Assessment ID:SEFSC-RGROUPGM-1986-2005-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/68

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_RGROUPGM-2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-22
Date last loaded	2010-01-19
QA/QC complete	YES
Date approved	2009-06-05

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

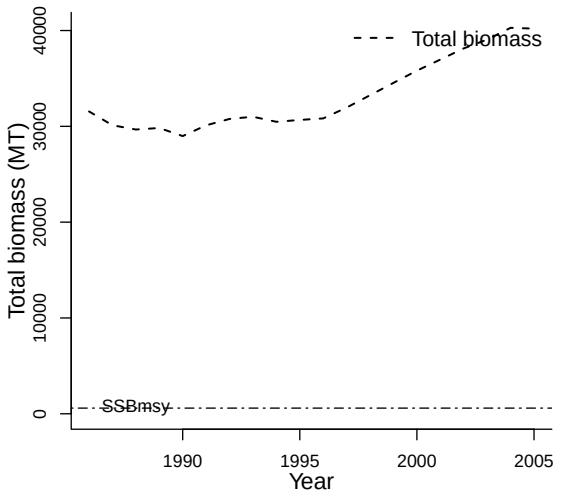
primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na

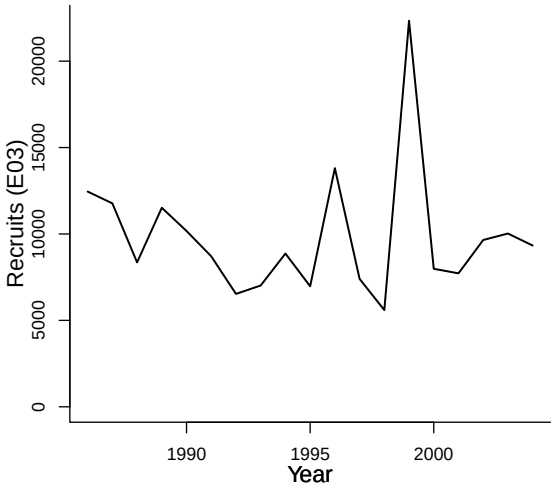
Parameter	Value	Units
M-1/yr	0.14	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

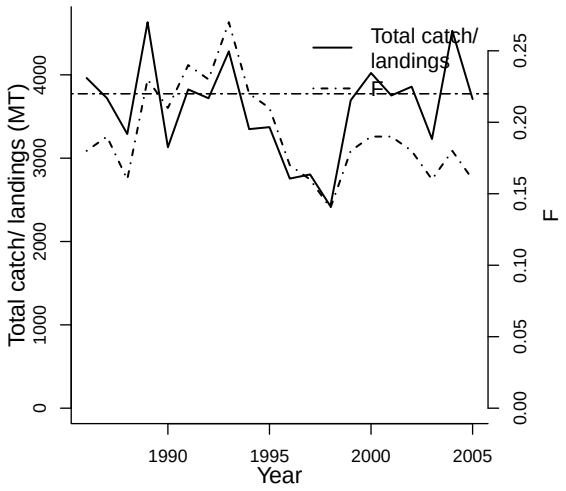
Reference points

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
MSY-MT (TB)	3501.73024	MT
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 porgy (*Pagrus pagrus*)

Assessment ID:SEFSC-RPORGYSATLC-1972-2004-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/73

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	1972-2004
Document	JENSEN_RPORGYSATLC_2006.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2008-11-25
Date last loaded	2010-05-05
QA/QC complete	YES
Date approved	2010-05-05

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

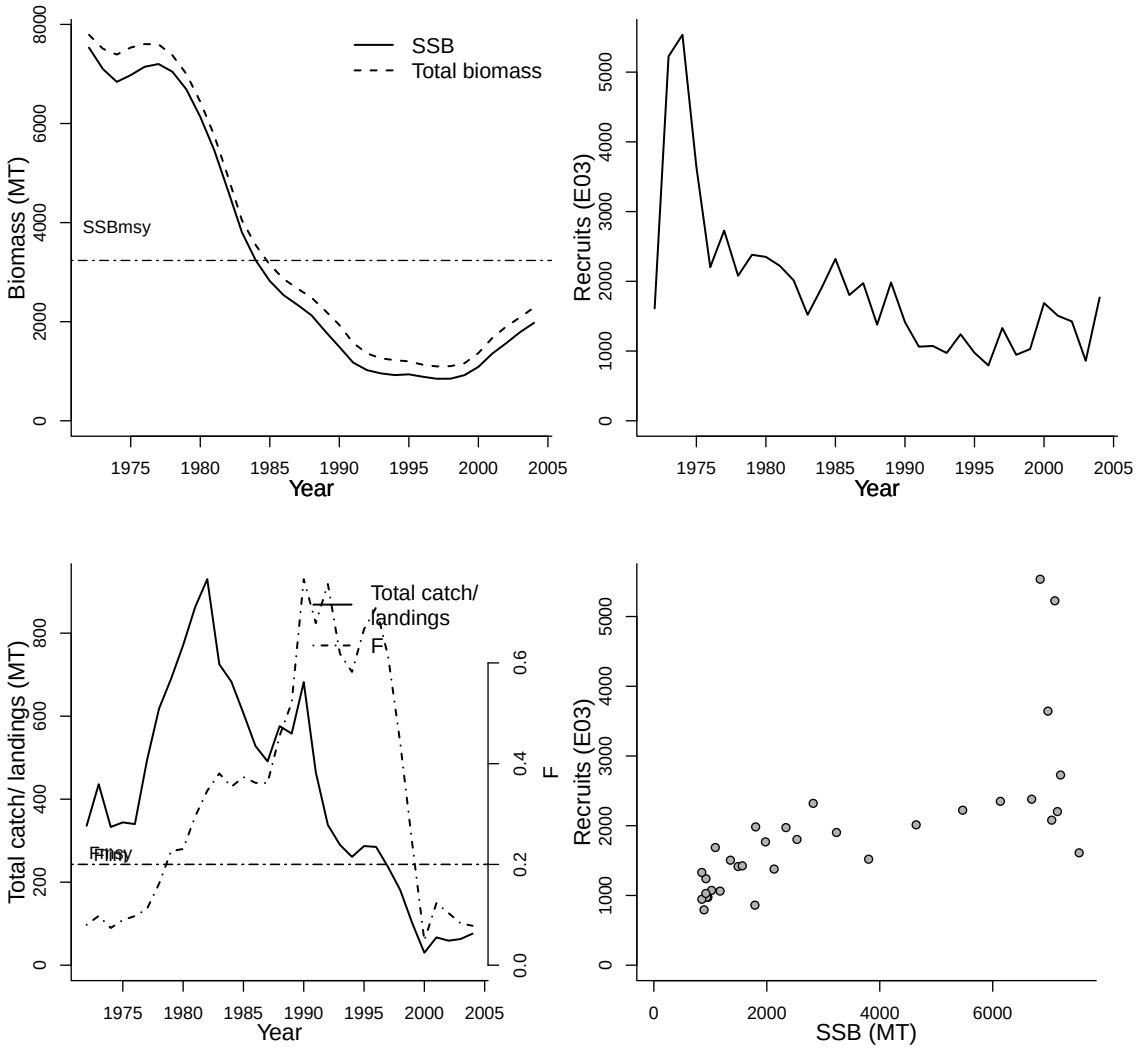
primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na

Parameter	Value	Units
A50-yr	2	yr
M-1/T	0.225	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points

Parameter	Value	Units
Blim-FemaleGonadMT	2507.9155	FemaleGonadMT
Flim-1/yr (F)	0.2	1/yr
Fmsy-1/yr (F)	0.200	1/yr
MORATOR-yr-yr	1999-2000	yr-yr
MSY-MT (TB)	283.81	MT
SSBmsy-MT (SSB)	3236.02	MT
F_{2004}/F_{lim}	0.391	
F_{2004}/F_{msy}	0.391	
SSB_{2004}/SSB_{msy}	0.611	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2004	2004	2004	2004	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 Southern Atlantic coast red snapper (*Lutjanus campechanus*)

Assessment ID:SEFSC-RSNAPSATLC-1945-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/69

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	2008-11-22	
Date last loaded	2009-03-25	
QA/QC complete	NO	
Date approved		

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

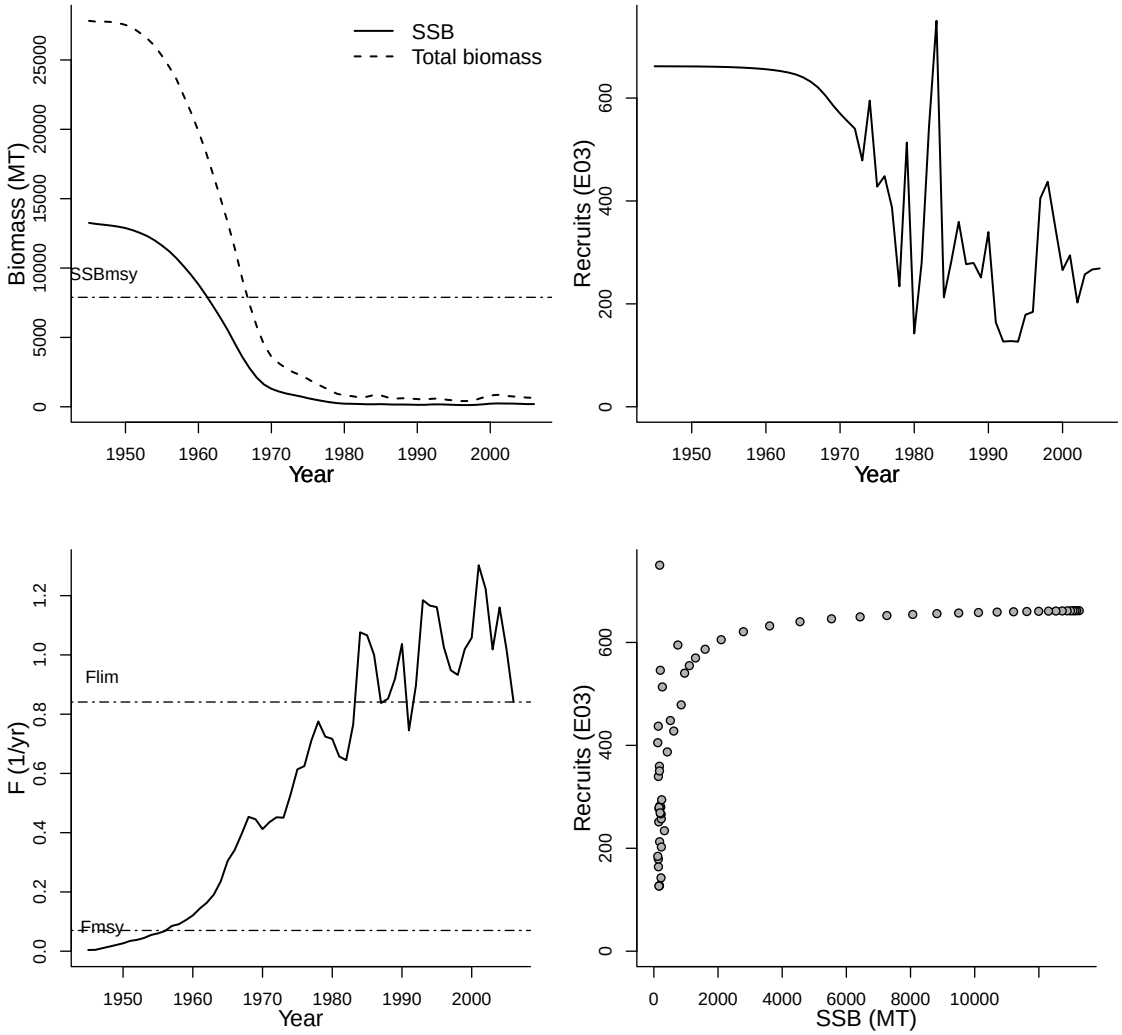
primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na

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

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)	1049.61	MT
SSBmsy-MT (SSB)	7.89E+03	MT
F_{2006}/F_{lim}	1.001	
F_{2006}/F_{msy}	12.021	
SSB_{2006}/SSB_{msy}	0.025	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/75

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 in database)
Recorder	JENSEN
Date entered	2008-11-25
Date last loaded	2010-04-30
QA/QC complete	YES
Date approved	2010-04-30

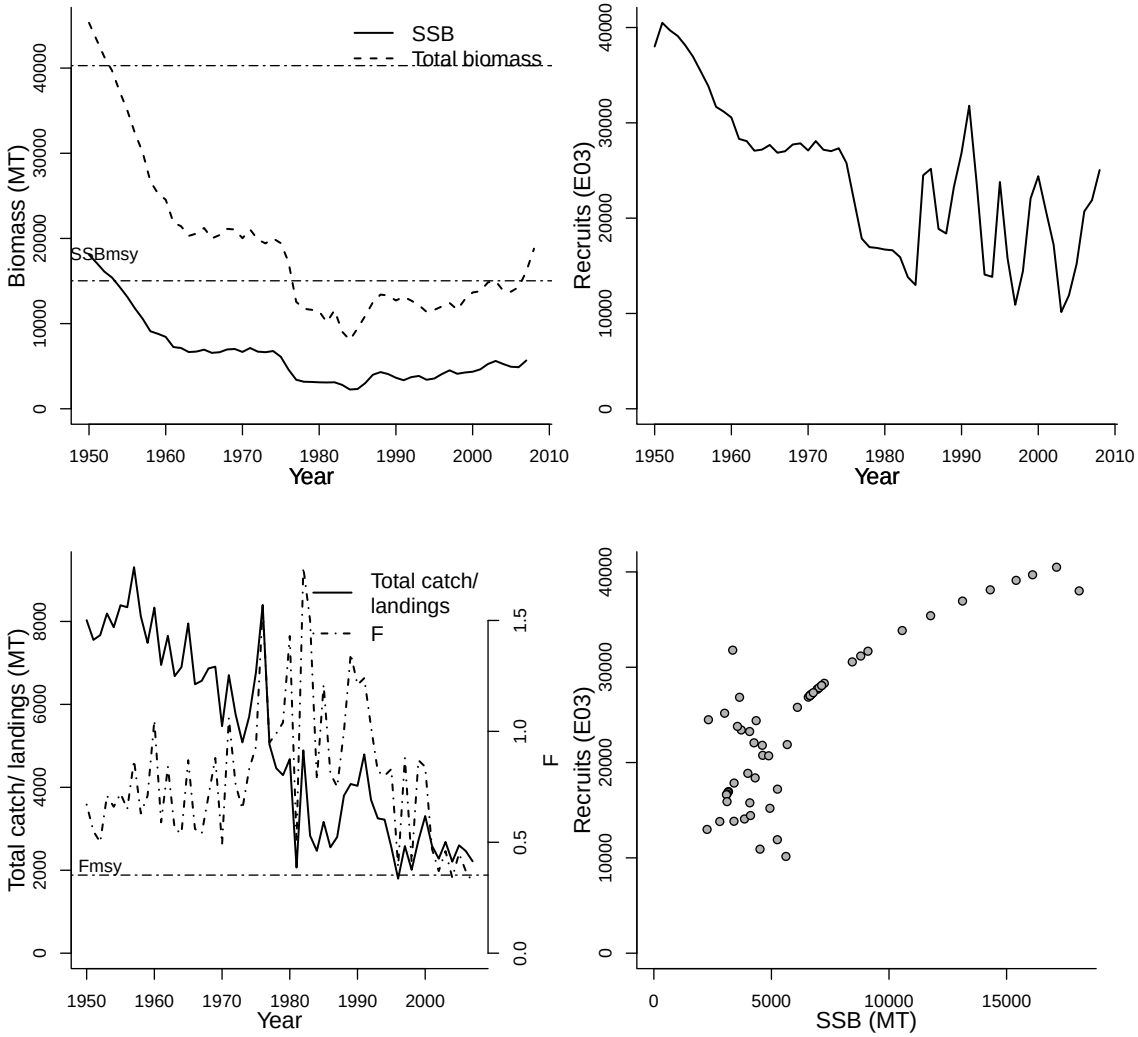
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
6 - Southeast U.S. Continental Shelf	na	na

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	40288	MT
Fmsy-1/yr (F)	0.352	1/yr
MSY-MT (TB)	5941.60	MT
SSBmsy-MT (SSB)	15027	MT
TB_{2008}/B_{msy}	0.467	
F_{2007}/F_{msy}	0.909	
SSB_{2007}/SSB_{msy}	0.377	

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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/19

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	2008-11-19
Date last loaded	2010-03-16
QA/QC complete	YES
Date approved	2010-03-08

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

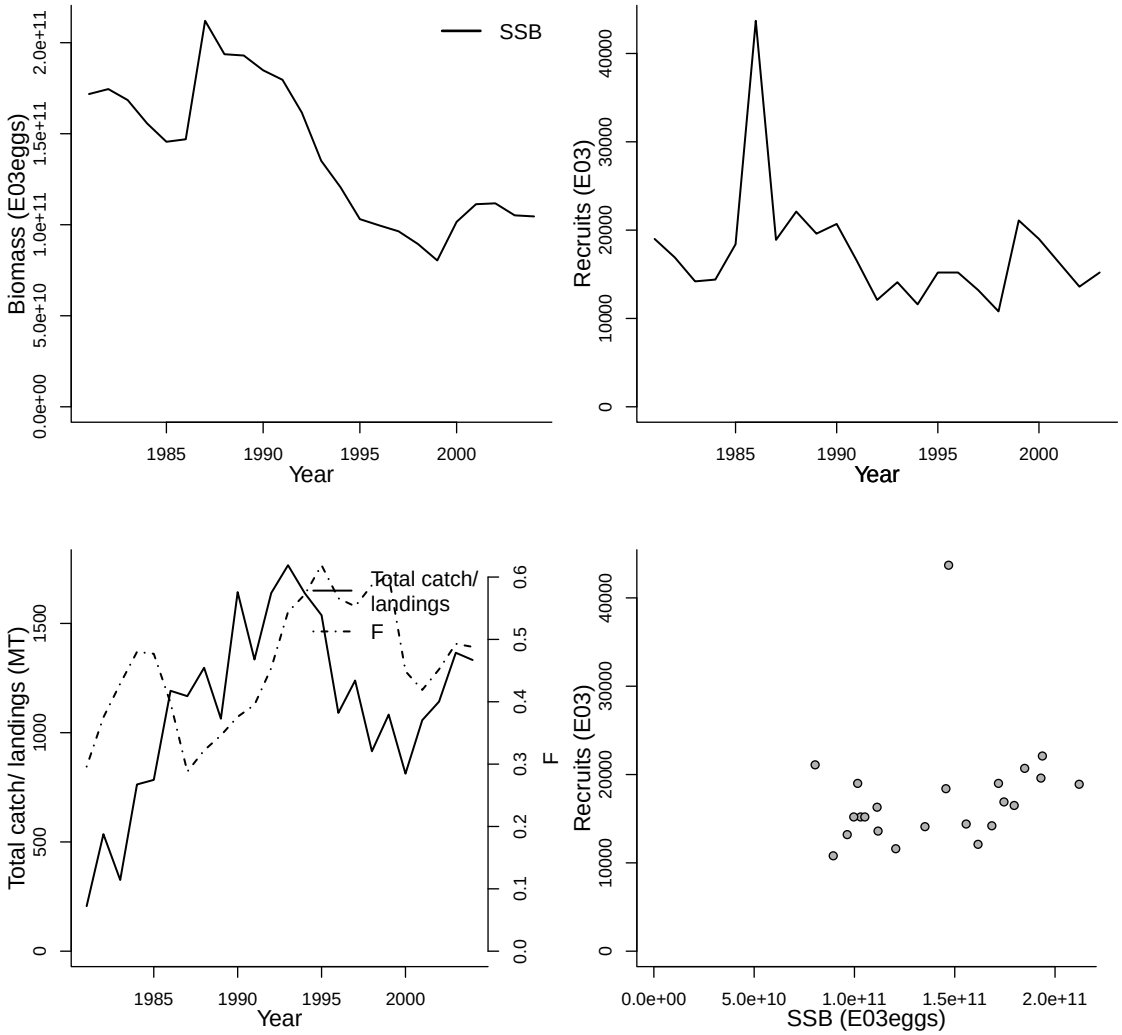
primary LME	secondary LME	tertiary LME
5 - Gulf of Mexico	na	na

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

Reference points

Parameter	Value	Units
SSBlim-E00eggs	7.14E+13	E00eggs
Flim-1/yr (F)	0.79	1/yr
Fmsy-1/T (F)	0.81	1/T
MSY-MT (TB)	3374.72	MT
SSBmsy-E03eggs	68800000000	E03eggs
SSB_{2004}/SSB_{lim}	0.001	
F_{2004}/F_{lim}	0.618	
F_{2004}/F_{msy}	0.602	
SSB_{2004}/SSB_{msy}	1.520	

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 Northern Sea of Okhotsk walleye pollock (*Theragra chalcogramma*)

Assessment ID:SFI-WPOLLNSO-1985-1994-JENSEN

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/425

Area ID: Russia-RFFA-NSO

General assessment details.

Detail	Value
Management body	RFFA
Assessment group	Sea Fisheries Institute Poland
Assessment authors	Janusz, J.
Assessment method	Age-aggregated surplus production model
Publication year	1997
Timeseries span	1985-1994
Document	WPOLLNSO-1997-JENSEN.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-11-10
Date last loaded	2009-11-11
QA/QC complete	NO
Date approved	

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

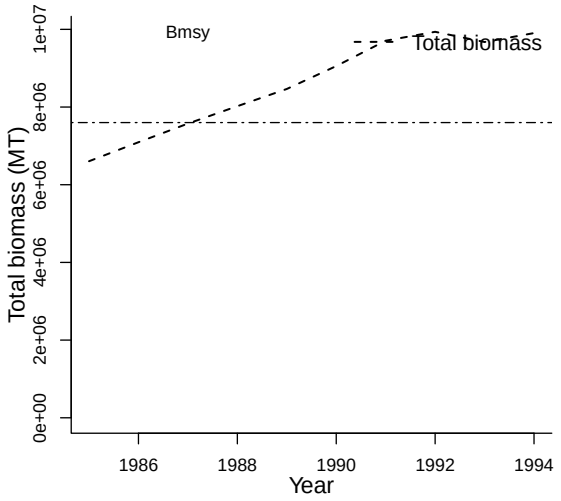
primary LME	secondary LME	tertiary LME
52 - Sea of Okhotsk	na	na

Parameter	Value	Units
M-1/yr	0.2	1/yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

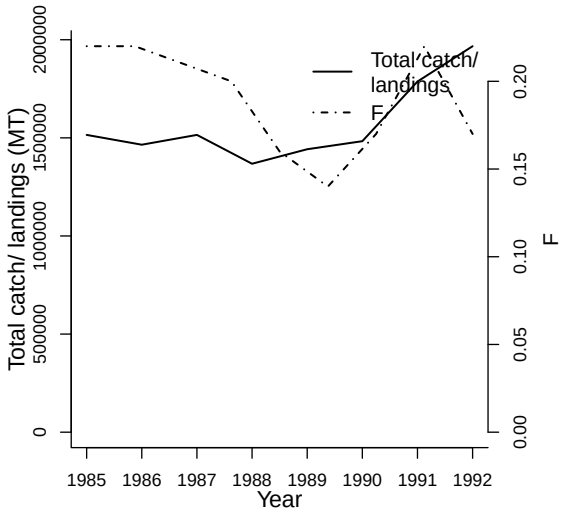
Reference points

Parameter	Value	Units
Fmsy-1/yr (F)	0.27	1/yr
Bmsy-MT (TB)	7600000	MT
MSY-MT (TB)	2067000	MT
TB_{1994}/B_{msy}	1.303	
F_{1993}/F_{msy}	0.630	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1985	1985	1985
Maximum year			1993	1994	1992
Time series minimum			0.14	6605000	1368000
Time series maximum			0.22	9937000	1967000
Units			1/yr	MT	MT



No recruitment data available



No SSB−recruit data available

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

Assessment ID:SPC-ALBASPAC-1959-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/57

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	1959-2006
Document	JENSEN_ALBWPO_2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-10-21
Date last loaded	2010-05-04
QA/QC complete	YES
Date approved	2010-05-04

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

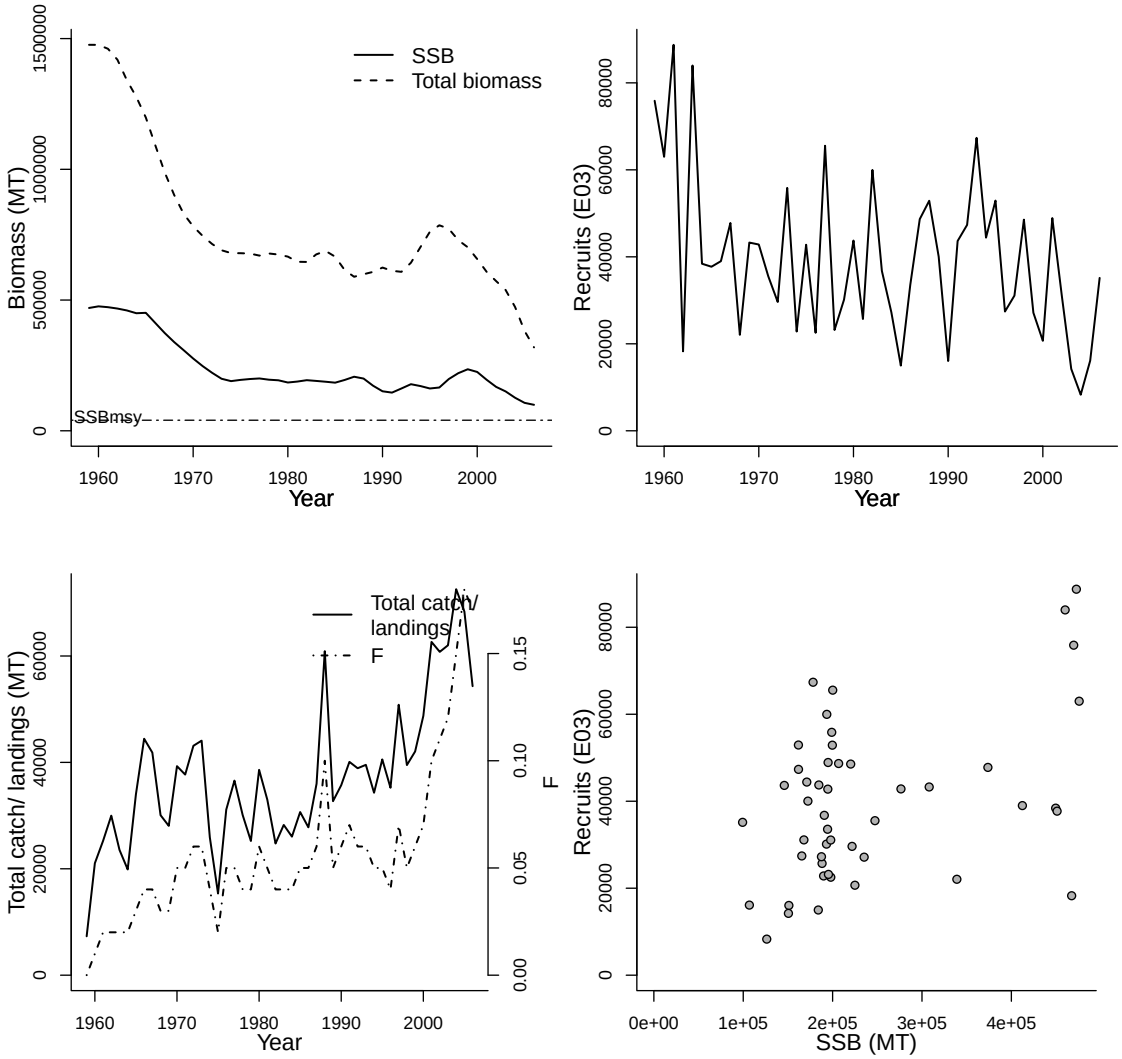
primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	na	na

Parameter	Value	Units
SSB-SEX-sex	0	sex
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		

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
B0-MT	698000	MT
SSB_{2006}/SSB_{msy}	2.457	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1959	1959	1959	1959	1959
Maximum year	2006	2006	2006	2006	2006
Time series minimum	99278	8295	0	318910	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-1952-2006-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/59

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	1952-2006
Document	SC4-SA-WP1-rev1-bigeye-tuna.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-10-30
Date last loaded	2010-05-04
QA/QC complete	NO
Date approved	2010-05-04

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

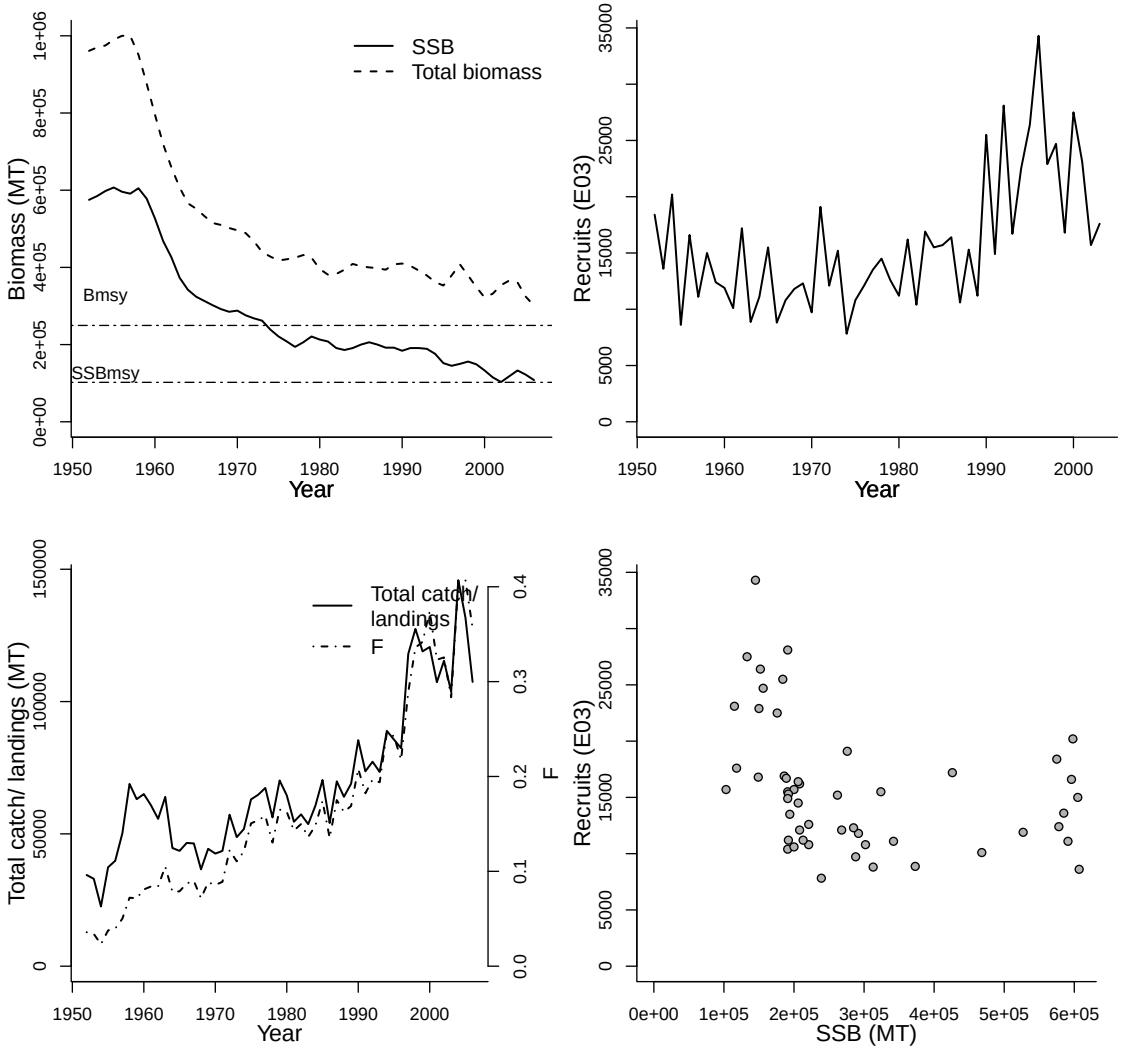
primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	na	na

Parameter	Value	Units
SSB-SEX-sex	0	sex
A50-yr	3.6	yr
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points

Parameter	Value	Units
Bmsy-MT (TB)	249600	MT
Umsy-ratio (U)	0.2588	ratio
MSY-MT (TB)	64,600	MT
SSBmsy-MT (SSB)	102200	MT
TB_{2006}/B_{msy}	1.206	
SSB_{2006}/SSB_{msy}	1.057	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1952	1952	1952	1952	1952
Maximum year	2006	2003	2006	2006	2006
Time series minimum	103000	7820	0.0231	301000	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-1972-2006-JENSEN

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/15

Area ID: USA-NMFS-CWPAC

General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2008
Timeseries span	1972-2006
Document	SC4-SA-WP4-SKJ-Assessment-rev1-skipjack.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-18
Date last loaded	2010-05-04
QA/QC complete	NO
Date approved	2010-05-04

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

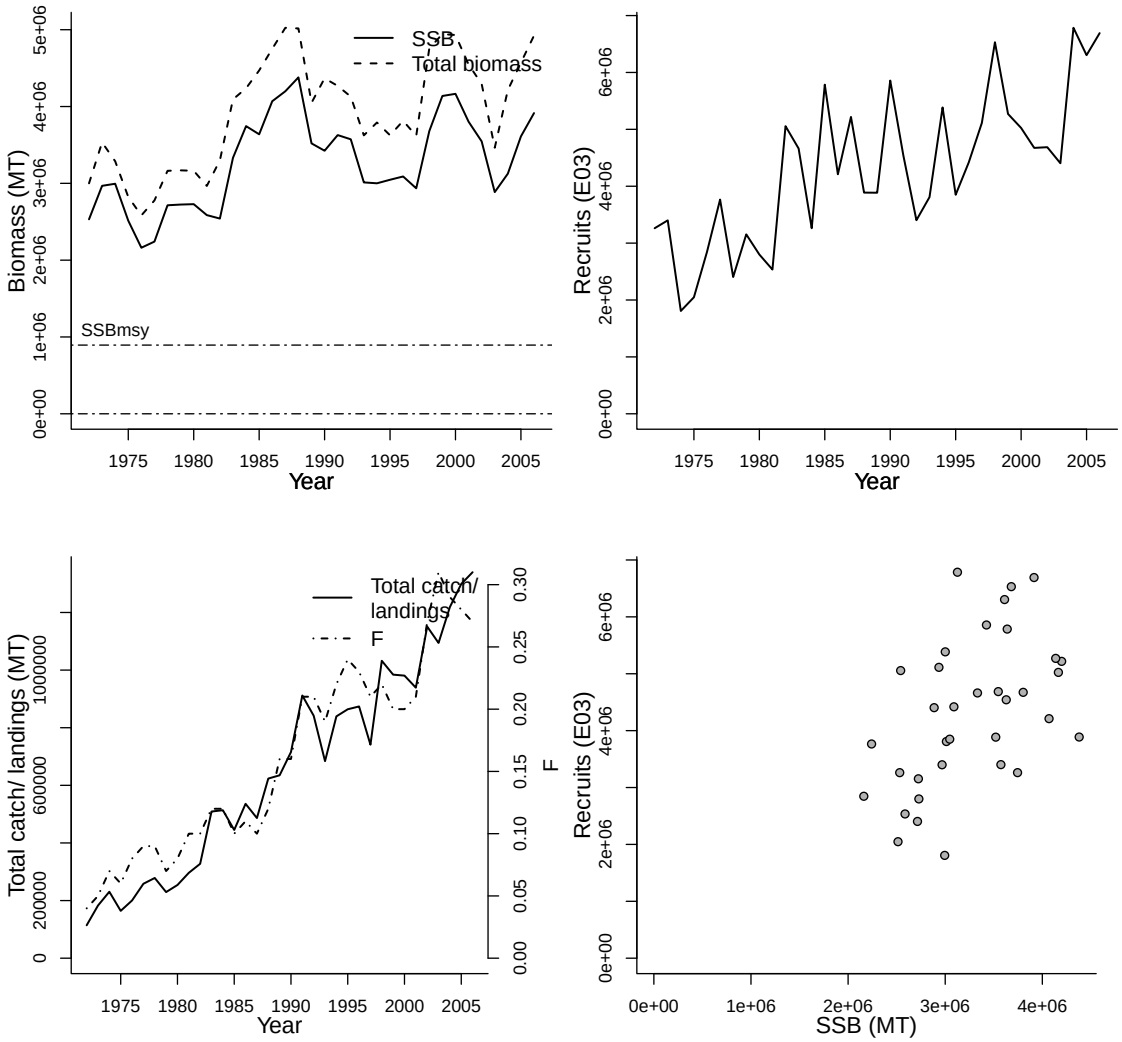
primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	na	na

Parameter	Value	Units
A50-yr	0.3125	yr
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points

Parameter	Value	Units
Bmsy-MT (TB)	1,438,000	MT
Umsy-ratio (U)	0.8900	ratio
MSY-MT (TB)	1,279,600	MT
SSBmsy-MT (SSB)	894200	MT
TB_{2006}/B_{msy}	4923525.000	
SSB_{2006}/SSB_{msy}	4.378	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1972	1972	1972	1972	1972
Maximum year	2006	2006	2006	2006	2006
Time series minimum	2161842.5	1807470	0.04	2582900	114138.2
Time series maximum	4379400	6784900	0.31	5024875	1339779
Units	MT	E03	ratio	MT	MT



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

Assessment ID:SPC-YFINCWPAC-1952-2005-JENSEN

Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/60

Area ID: USA-NMFS-CWPAC

General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
Assessment method	A length-based, age and spatially-structured model for fisheries stock assessment
Publication year	2007
Timeseries span	1952-2005
Document	WCPFC-SC3-SA-SWG-WP-01.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-18
Date last loaded	2010-05-04
QA/QC complete	YES
Date approved	2010-05-04

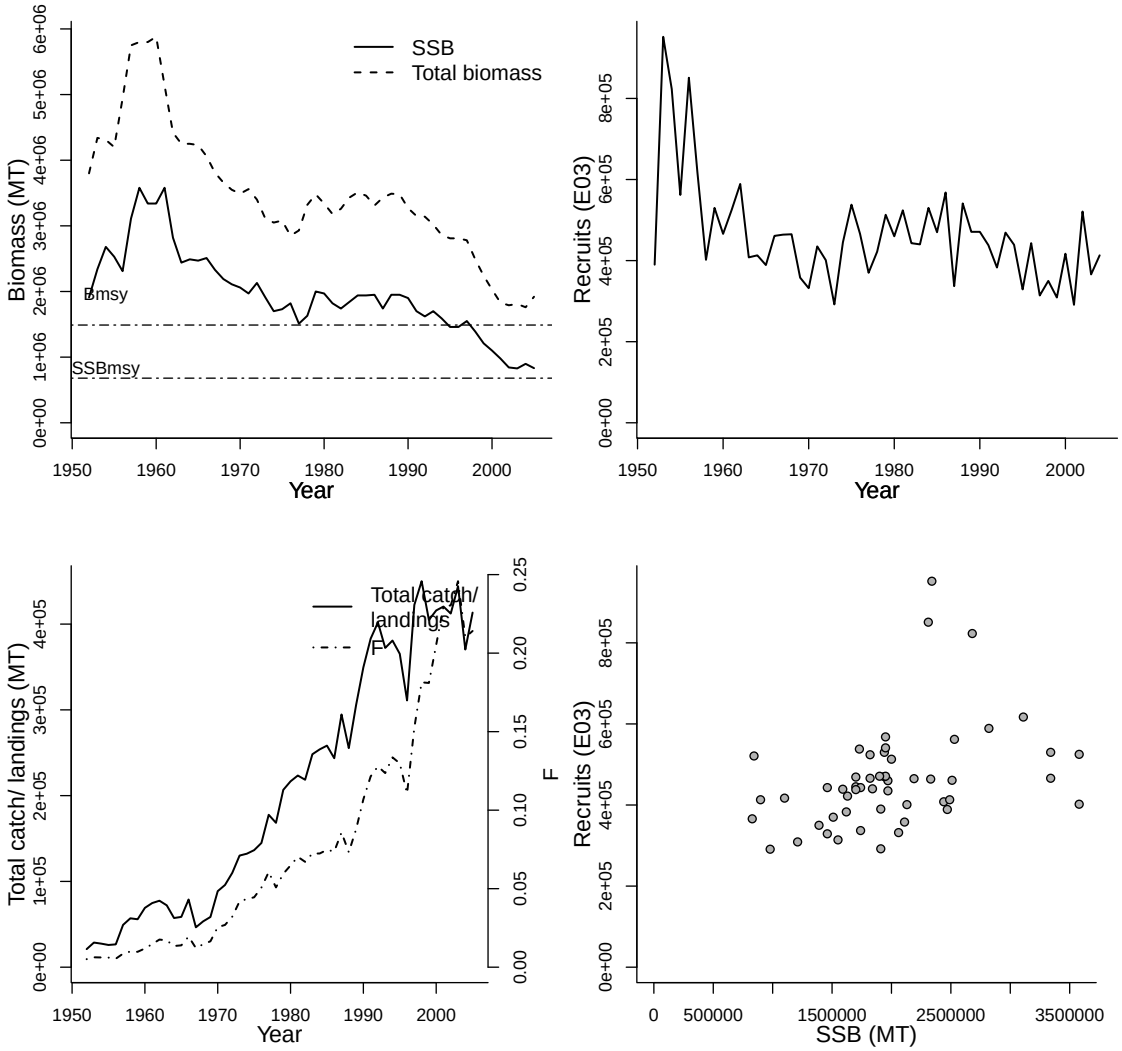
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
-99 - Pacific High Seas	na	na

Parameter	Value	Units
A50-yr	2	yr
M-1/T	AVAILABLE	1/T
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
L50-cm		

Reference points		
Parameter	Value	Units
Bmsy-MT (TB)	1489000	MT
Umsy-ratio (U)	0.2686	ratio
MSY-MT (TB)	400,000	MT
SSBmsy-MT (SSB)	679800	MT
TB_{2005}/B_{msy}	1.289	
SSB_{2005}/SSB_{msy}	1.224	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1952	1952	1952	1952	1952
Maximum year	2005	2004	2005	2005	2005
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
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/86

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 in database)
Recorder	JENSEN
Date entered	2008-11-29
Date last loaded	2009-03-25
QA/QC complete	NO
Date approved	

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

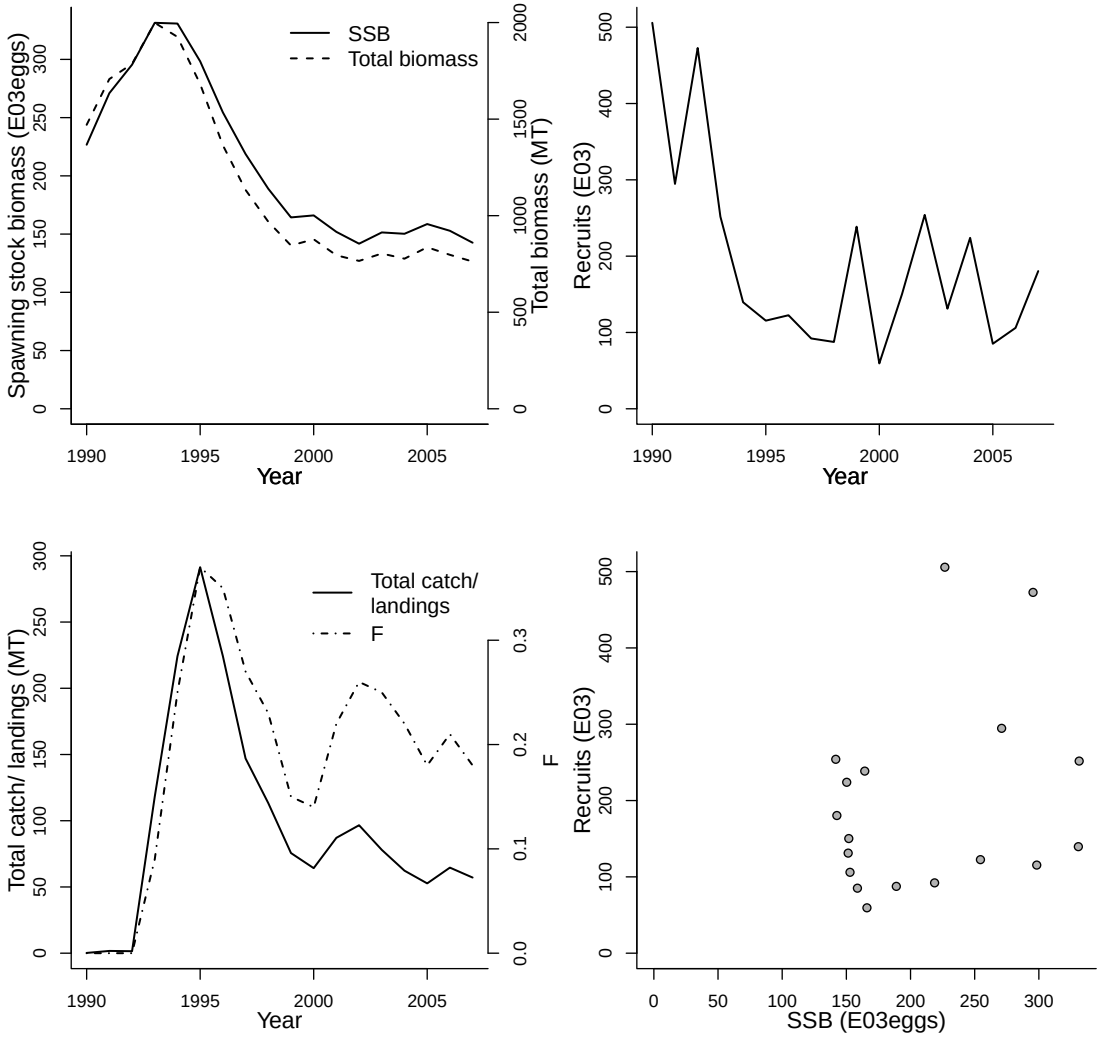
primary LME	secondary LME	tertiary LME
42 - Southeast Australian Shelf	na	na

Parameter	Value	Units
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
TB-AGE-yr		
F-AGE-yr		
M		
A50-yr		
L50-cm		

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



Assessment of Western Bering Sea walleye pollock (*Theragra chalcogramma*)

Assessment ID:VNIRO-WPOLLWBS-1994-2004-JENSEN
Issue URL: http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/426

Area ID: Russia-RFFA-WBS

General assessment details.

Detail	Value
Management body	RFFA
Assessment group	Russian Federal Research Institute of Fisheries and Oceanography
Assessment authors	Vasilyev, D.A.
Assessment method	Instantaneous Separable VPA
Publication year	2004
Timeseries span	1994-2004
Document	WPOLLWBS-2004-JENSEN.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-11-11
Date last loaded	2009-11-11
QA/QC complete	NO
Date approved	

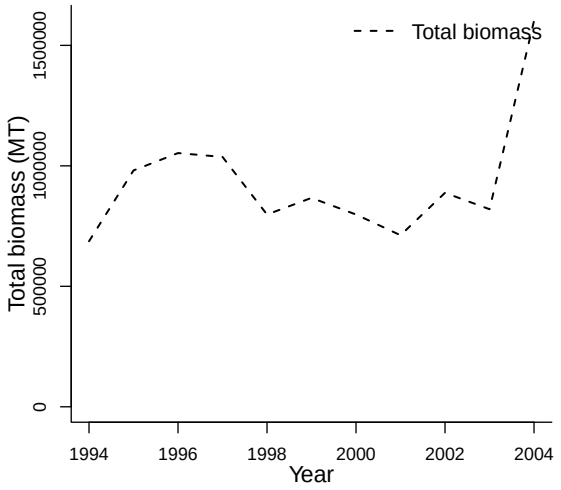
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME	secondary LME	tertiary LME
53 - West Bering Sea	na	na

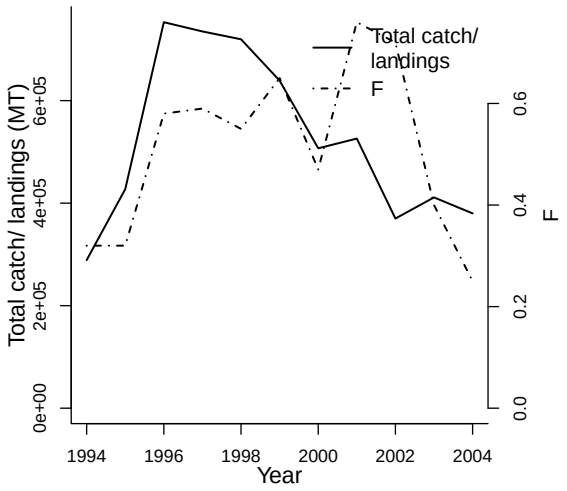
Parameter	Value	Units
F-AGE-yr-yr	3-6	yr-yr
TB-AGE-yr	2+	yr
REC-AGE		
SSB-AGE-yr		
SSB-SEX-sex		
M		
A50-yr		
L50-cm		

Reference points		
Parameter	Value	Units

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1994	1994	1994
Maximum year			2004	2004	2004
Time series minimum			0.25	687000	288900
Time series maximum			0.76	1602000	753000
Units			1/yr	MT	MT

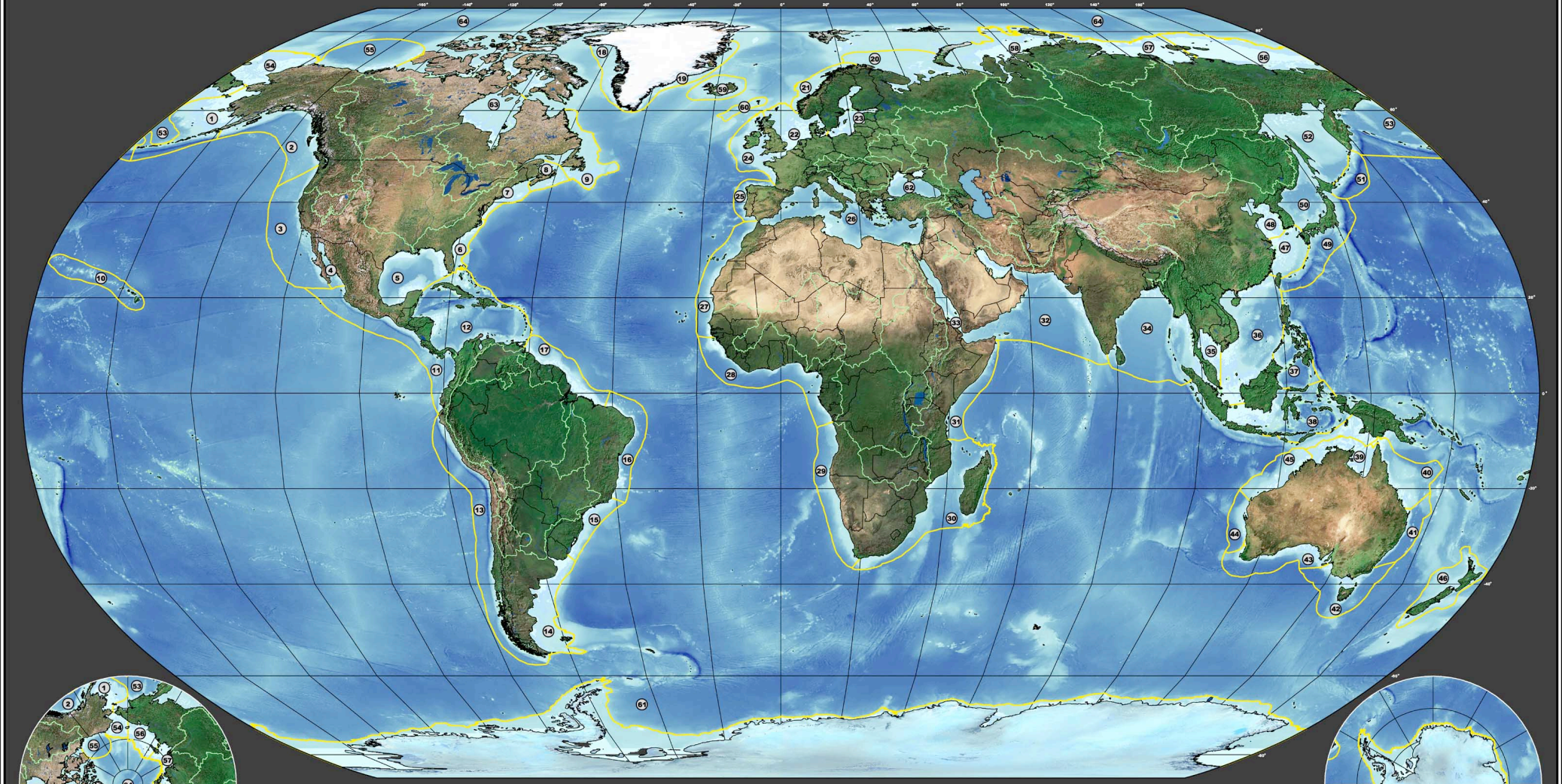


No recruitment data available



No SSB−recruit data available

Large Marine Ecosystems of the World
and Linked Watersheds



MAP KEY:

LME Numbers:

1 East Bering Sea
2 Gulf of Alaska
3 California Current
4 Gulf of California
5 Gulf of Mexico
6 Southeast U.S. Continental Shelf
7 Northeast U.S. Continental Shelf
8 Scotian Shelf
9 Newfoundland-Labrador Shelf
10 Insular Pacific-Hawaiian
11 Pacific Central-American Coastal
12 Caribbean Sea
13 Humboldt Current
14 Patagonian Shelf
15 South Brazil Shelf
16 East Brazil Shelf
17 North Brazil Shelf
18 West Greenland Shelf
19 East Greenland Shelf
20 Barents Sea
21 Norwegian Shelf
22 North Sea
23 Baltic Sea
24 Celtic-Biscay Shelf
25 Iberian Coastal
26 Mediterranean Sea
27 Canary Current
28 Guinea Current
29 Benguela Current
30 Agulhas Current
31 Somali Coastal Current
32 Arabian Sea
33 Red Sea
34 Bay of Bengal
35 Gulf of Thailand
36 South China Sea
37 Sulu-Celebes Sea
38 Indonesian Sea
39 North Australian Shelf
40 Northeast Australian Shelf - Great Barrier Reef
41 East-Central Australian Shelf
42 Southeast Australian Shelf
43 Southwest Australian Shelf
44 West-Central Australian Shelf
45 Northwest Australian Shelf
46 New Zealand Shelf
47 East China Sea
48 Yellow Sea
49 Kuroshio Current
50 Sea of Japan
51 Oyashio Current
52 Sea of Okhotsk
53 West Bering Sea
54 Chukchi Sea
55 Beaufort Sea
56 East Siberian Sea
57 Laptev Sea
58 Kara Sea
59 Iceland Shelf
60 Faroe Plateau
61 Antarctic
62 Black Sea
63 Hudson Bay
64 Arctic Ocean

Large Marine Ecosystems
Watershed Bounds
Political Borders

DEPTH

Feet (ft)	Meters (m)
-36,080	-11,000
-32,800	-10,000
-29,520	-9,000
-26,240	-8,000
-22,960	-7,000
-19,680	-6,000
-16,400	-5,000
-13,120	-4,000
-9,840	-3,000
-6,560	-2,000
-3,280	-1,000
-1,640	-500
-246	-75
0	0

N W E S

SCALE = 1 : 31,700,000
Robinson Projection
Units Meters

Miles
0 300 600 900 1200

Kilometers
0 400 800 1200 1600 2000 2400

Data Sources:
Bathymetry (2-minute) : Smith and Sadnwell, 1997
Bathymetry (5-minute) : NAVOCEANO, DBDB5
Watersheds (HYDRO 1k) : USGS Eros Data Center
Terrestorial Image, Political Boundaries : ESRI

IUCN

***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

NORTH POLAR REGION

SOUTH POLAR REGION