

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.

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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.

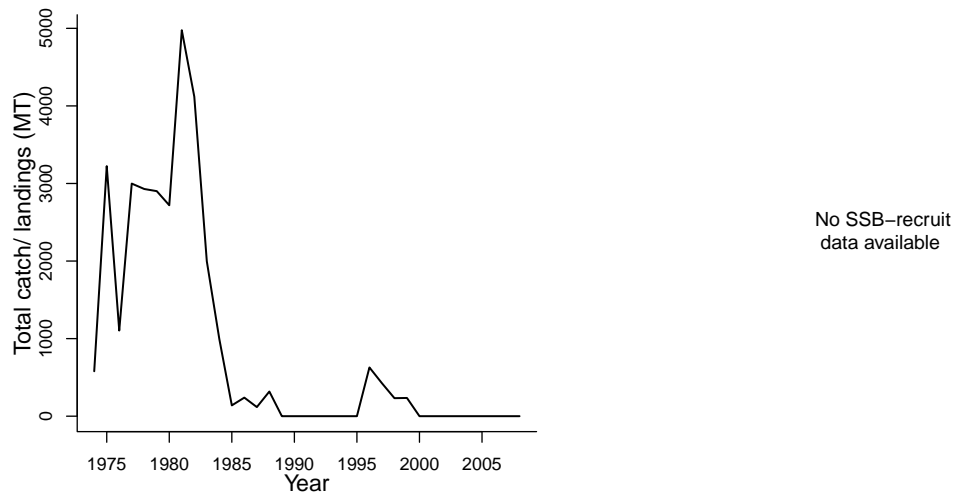
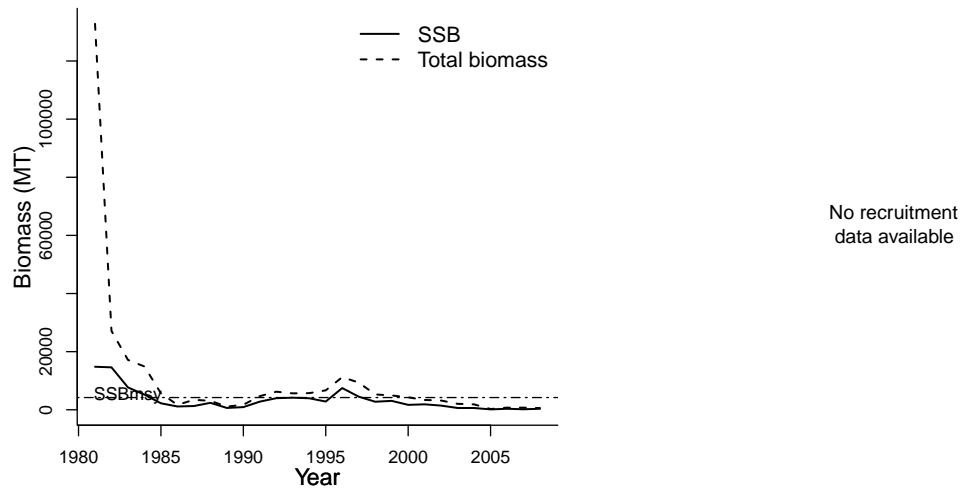
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
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	
SSB _{msy} -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



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.

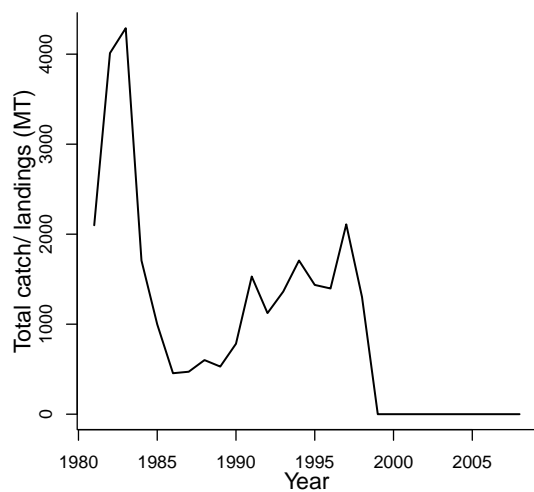
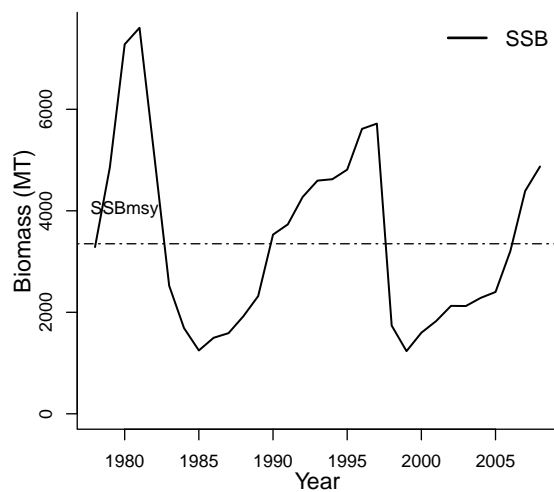
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1960-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
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	
SSB _{msy} -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



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

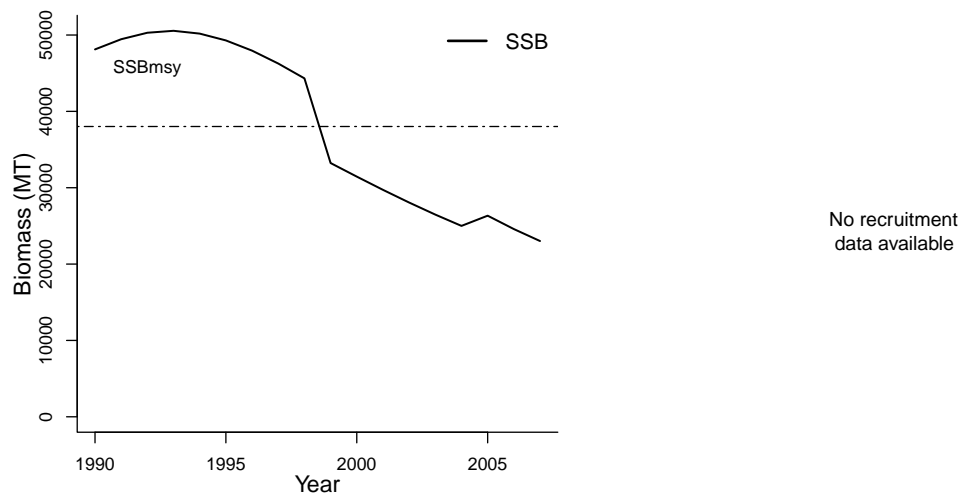
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
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	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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			
M-1/yr	0.1442	1/yr			
REC-AGE			Reference points		
SSB-AGE-yr			Parameter	Value	Units
TB-AGE-yr			SSB _{msy} -MT (SSB)	38018	MT
F-AGE-yr			SSB_{2007}/SSB_{msy}	0.605	
M					
A50-yr					
L50-cm					

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				



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

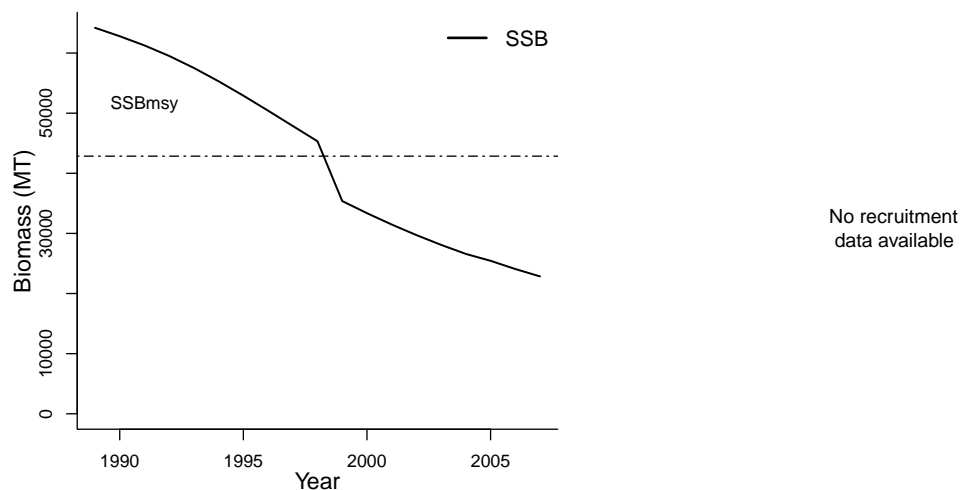
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
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	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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			Reference points		
SSB-AGE-yr			Parameter	Value	Units
TB-AGE-yr			SSB _{msy} -MT (SSB)	42848	MT
F-AGE-yr			SSB_{2007}/SSB_{msy}	0.533	
M					
A50-yr					
L50-cm					

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				



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

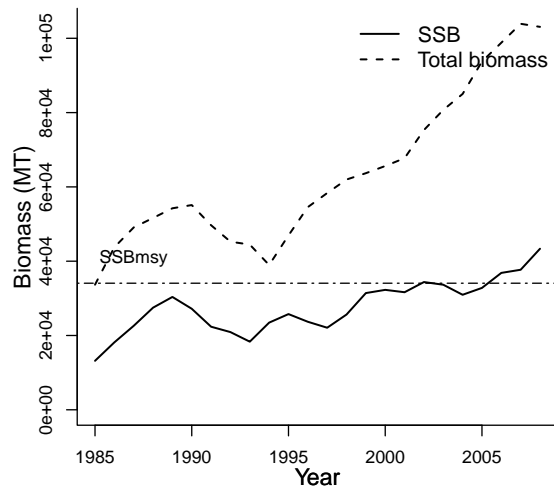
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
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	2010-07-28
QA/QC complete	YES
Date approved	2009-06-12

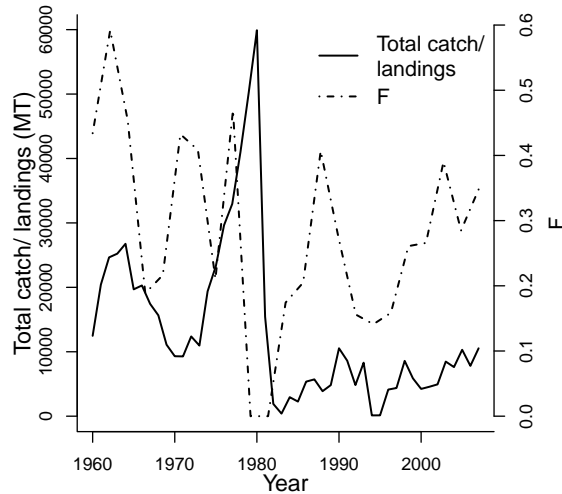
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

			primary LME	secondary LME	tertiary LME
			1 - East Bering Sea	na	na
Parameter	Value	Units			
REC-AGE			Reference points		
SSB-AGE-yr			Parameter	Value	Units
SSB-SEX-sex			Umsy-ratio (U)	0.33	ratio
TB-AGE-yr			SSBmsy-MT (SSB)	34070	MT
F-AGE-yr			SSB_{2008}/SSB_{msy}	1.273	
M					
A50-yr					
L50-cm					

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.

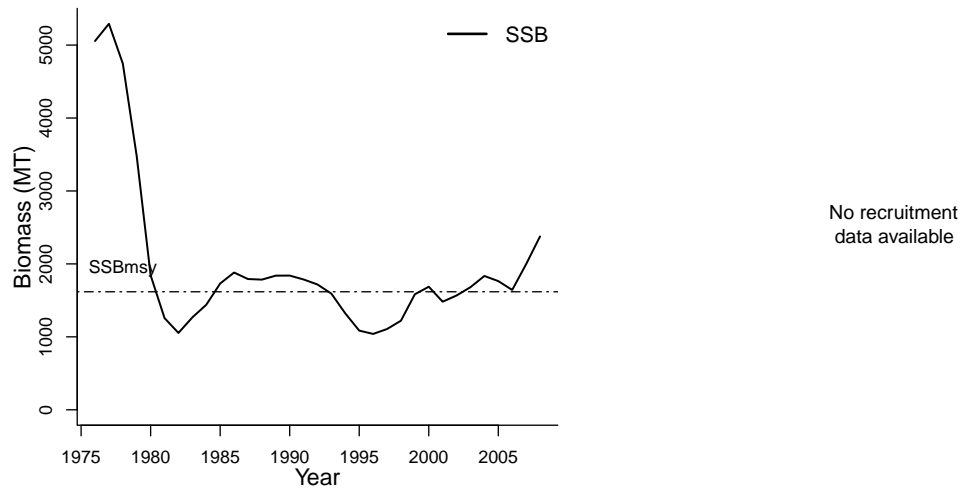
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Length-based analysis
Publication year	2008
Timeseries span	1976-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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	
SSB _{msy} -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				



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.

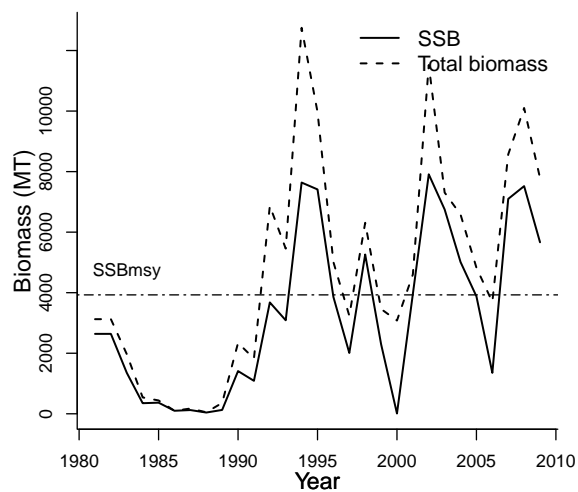
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1981-2009
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
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	
SSB _{msy} -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.

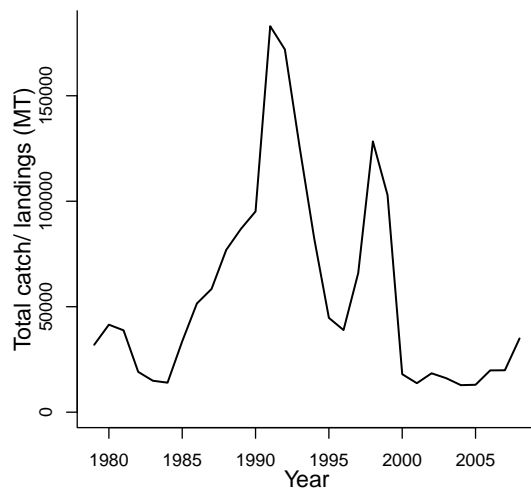
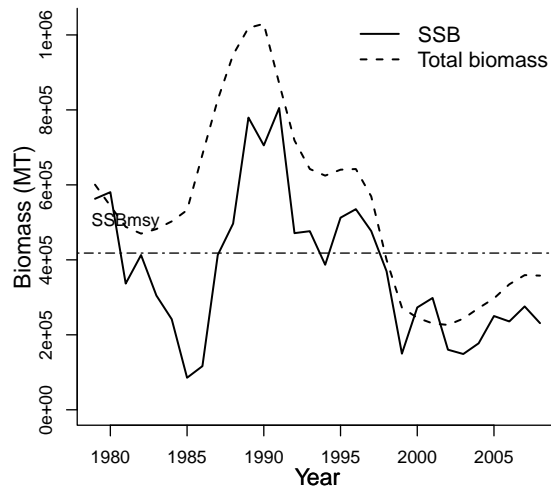
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Size-structured population dynamics model
Publication year	2008
Timeseries span	1979-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-13
Date last loaded	2010-07-28
QA/QC complete	YES
Date approved	2010-07-28

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	
SSB _{msy} -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



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.

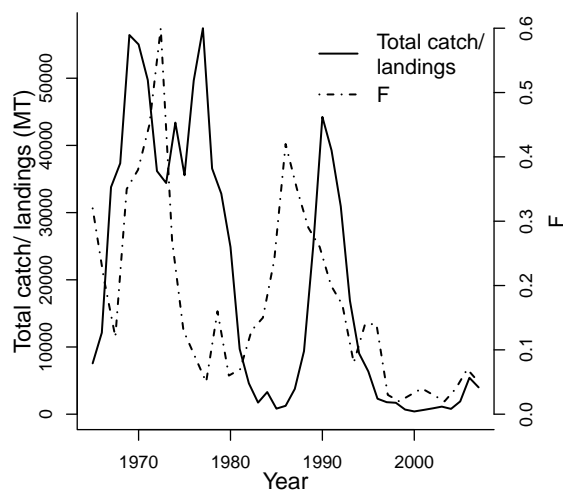
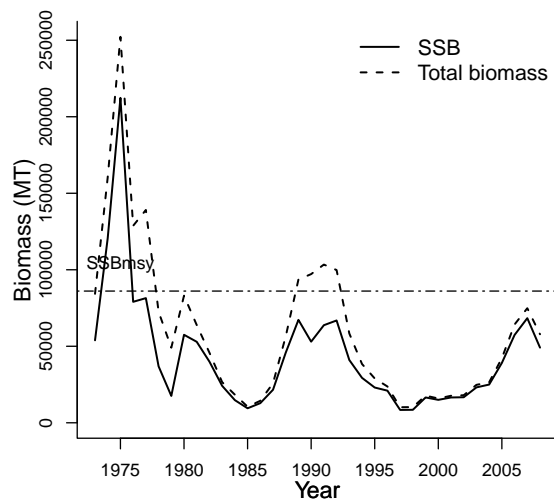
Detail	Value
Management body	NMFS
Assessment group	Alaska Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Temporal indices derived from scientific survey data
Publication year	2008
Timeseries span	1965-2008
Document	CRABSAFE2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-14
Date last loaded	2010-07-28
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	
SSB _{msy} -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



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

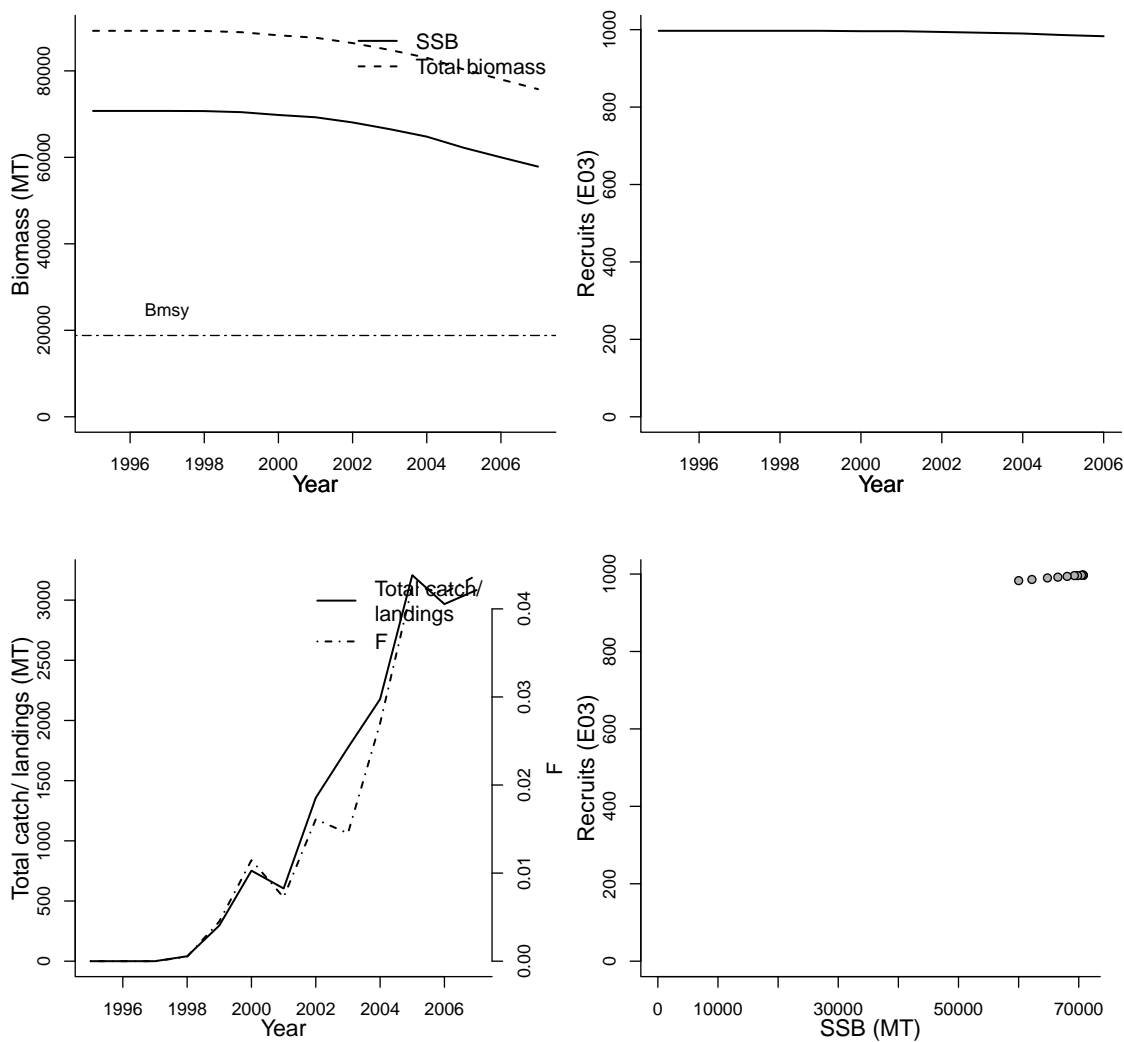
General assessment details.

Detail	Value
Management body	CCAMLR
Assessment group	Commission for the Conservation of Antarctic Marine Living Resources
Assessment authors	Dunn, A.
Assessment method	CASAL
Publication year	2008
Timeseries span	1995-2007
Document	ATOOTHFISHRS.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-06-14
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	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	BH-h-dimless	0.75	dimless
A50-yr	9.25	yr	Fmsy-1/yr (F)	0.136	1/yr
M-1/yr	0.13	1/yr	MSY-MT (TB)	3105.3982	MT
SSB-AGE-yr			Bmsy-MT (TB)	18802.1604	MT
SSB-SEX-sex			SSB0-MT (SSB)	70738	MT
F-AGE-yr			TB_{2007}/B_{msy}	4.030	
M			F_{2007}/F_{msy}	0.322	
L50-cm					

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	Aires-da-Silva, Alexandre
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	2010-07-16
QA/QC complete	NO
Date approved	

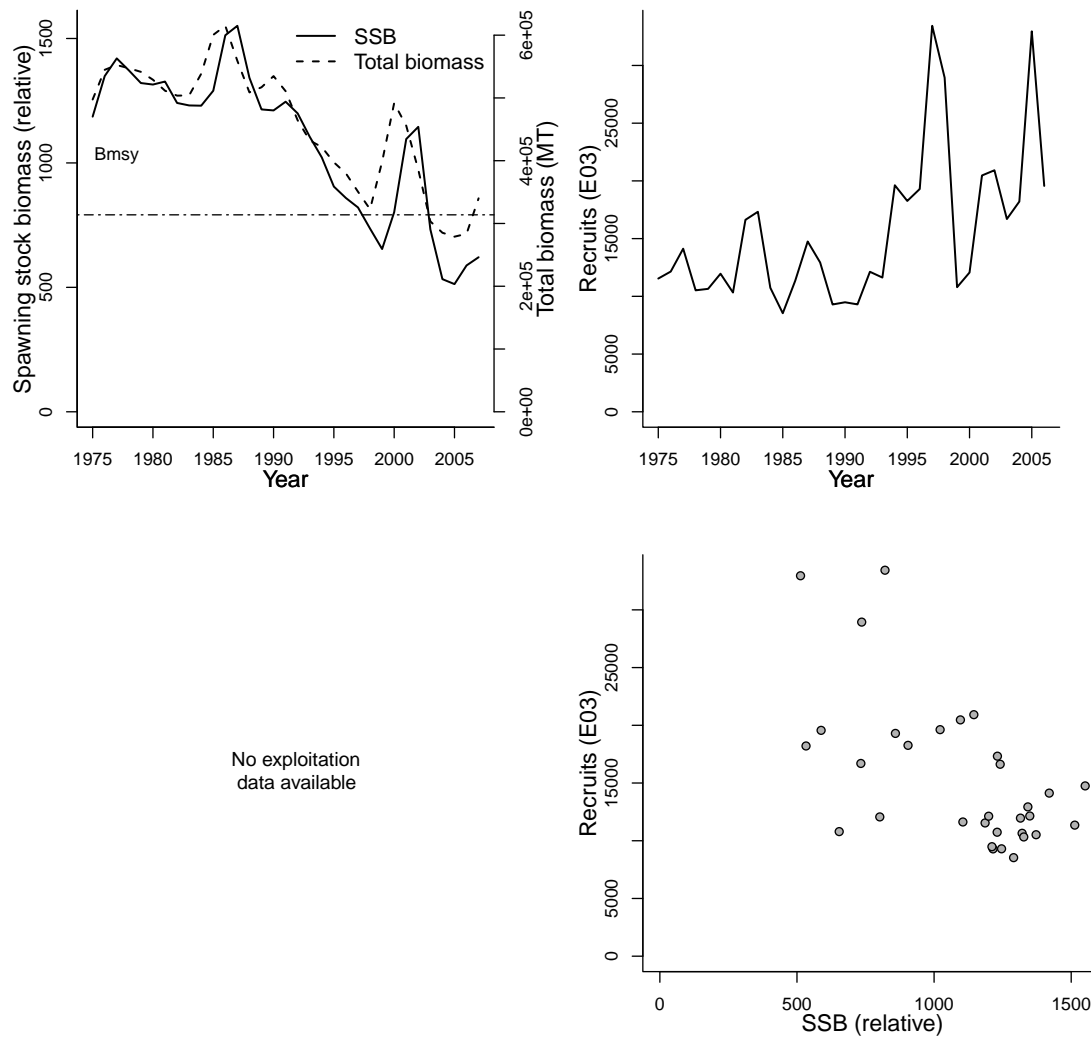
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

	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	



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

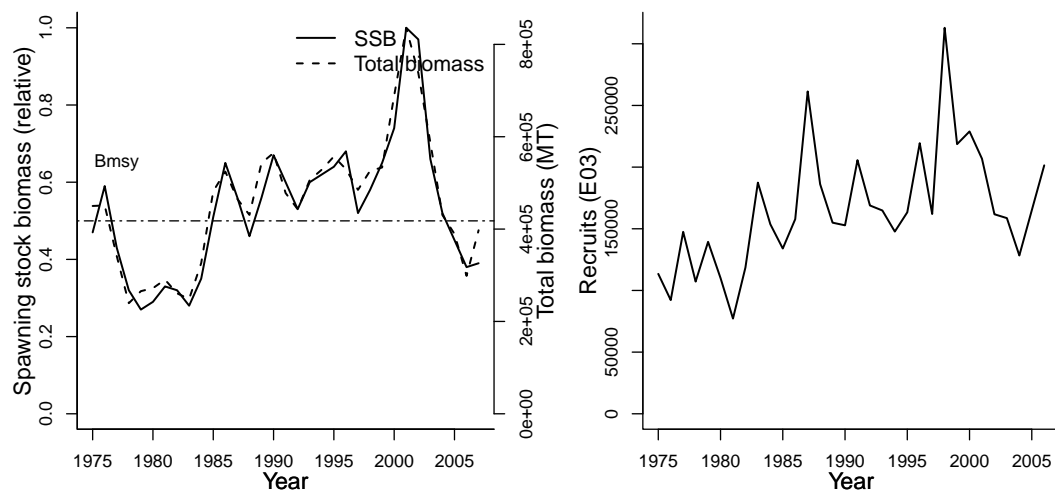
General assessment details.

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	2010-07-16
QA/QC complete	NO
Date approved	

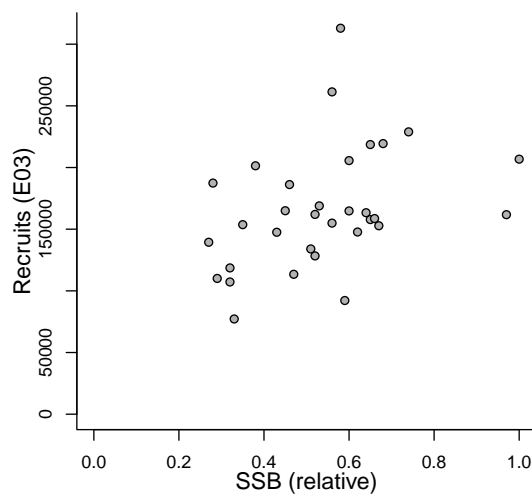
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME
-99 - Pacific High Seas			na	na
Parameter	Value	Units	Reference points	
REC-AGE-yr	0.50	yr	Parameter	Value Units
TB-AGE-yr	1.50	yr	Bmsy-MT (TB)	417813.00 MT
M-1/yr	0.25	1/yr	MSY-MT (TB)	289140.00 MT
SSB-AGE-yr			TB_{2007}/B_{msy}	0.951
SSB-SEX-sex				
F-AGE-yr				
M				
A50-yr				
L50-cm				

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

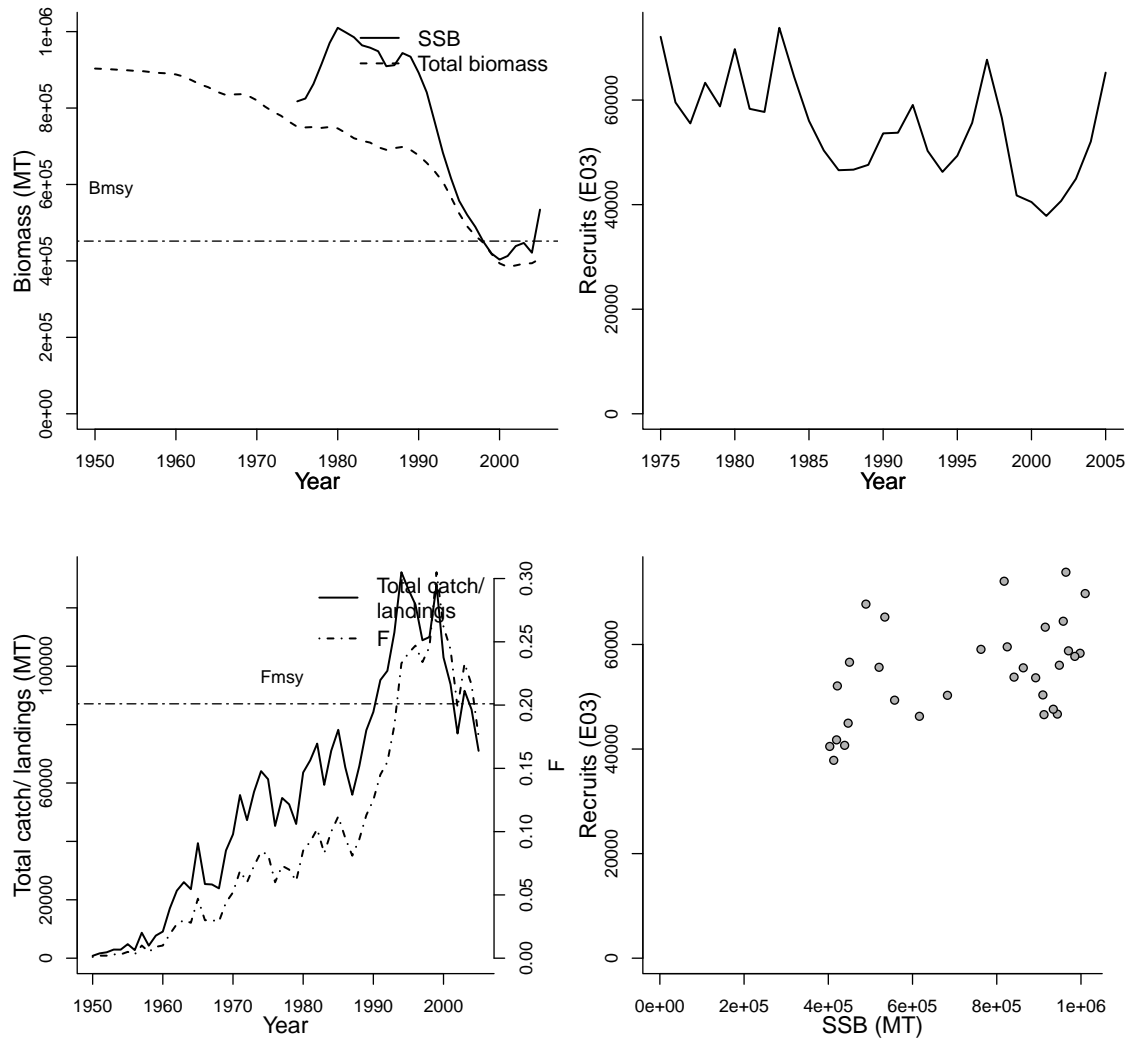
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
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	2010-07-16
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	Reference points		
REC-AGE-yr	0	yr	Parameter	Value	Units
M-1/yr	0.4	1/yr	F _{msy} -1/T (F)	0.201	1/T
SSB-AGE-yr			MSY-MT (TB)	90820	MT
SSB-SEX-sex			B _{msy} -MT (TB)	451800	MT
TB-AGE-yr			$T B_{2005}/B_{msy}$	0.898	
F-AGE-yr			F_{2005}/F_{msy}	0.871	
M					
A50-yr					
L50-cm					

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

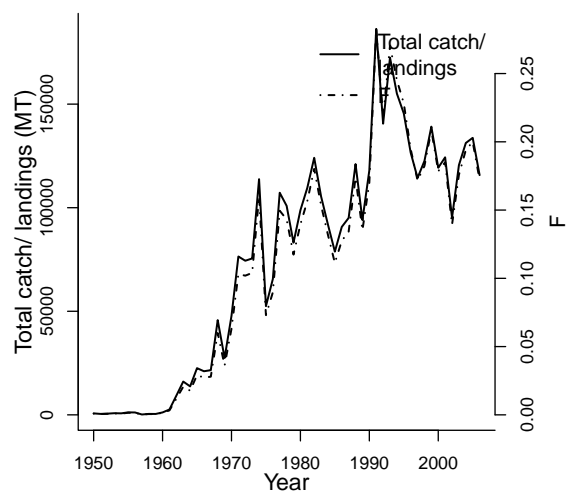
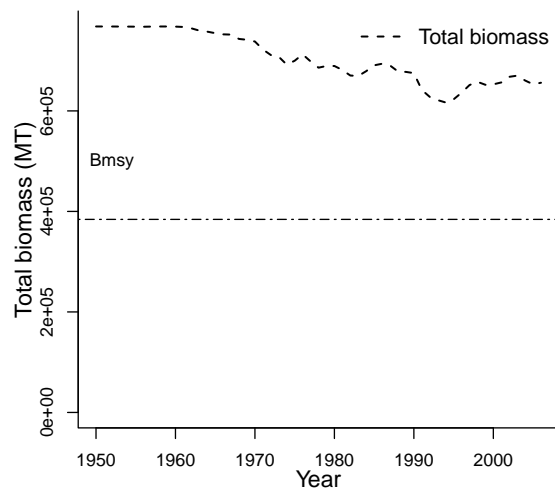
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Bayesian Surplus Production Model
Publication year	2008
Timeseries span	1950-2006
Document	JENSEN-YFINATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-11
Date last loaded	2010-07-16
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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			F _{msy} -1/T (F)	0.636753571828511	1/T
SSB-SEX-sex			MSY-MT (TB)	225796	MT
TB-AGE-yr			B _{msy} -MT (TB)	384159	MT
F-AGE-yr			B0-MT	768318	MT
M			TB_{2006}/B_{msy}	1.708	
A50-yr			F_{2006}/F_{msy}	0.270	
L50-cm					

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



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

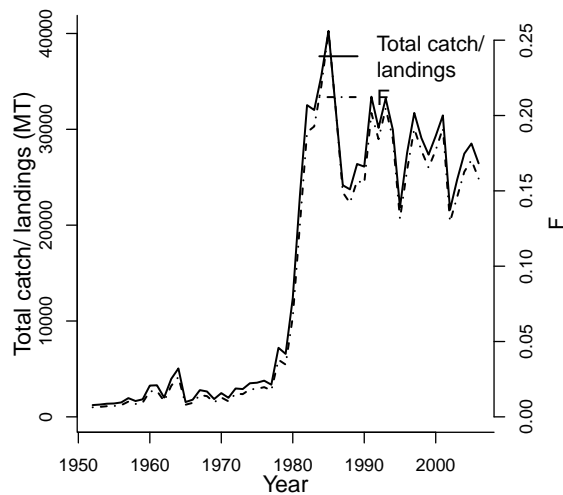
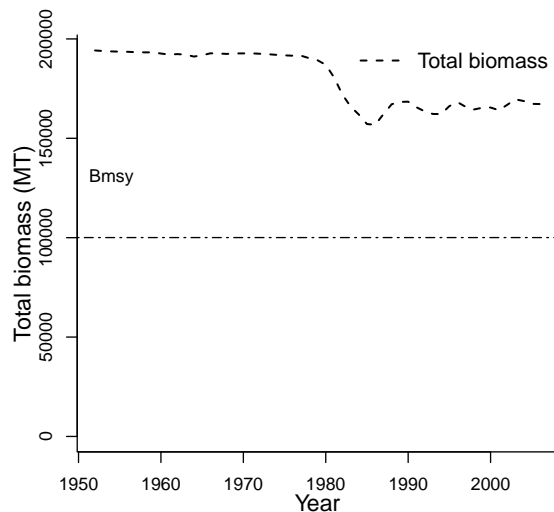
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Bayesian Surplus Production Model
Publication year	2008
Timeseries span	1952-2006
Document	JENSEN-YFINATL-2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-11
Date last loaded	2010-07-16
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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			F _{msy} -1/T (F)	0.489367075307683	1/T
SSB-SEX-sex			MSY-MT (TB)	57815	MT
TB-AGE-yr			B _{msy} -MT (TB)	100052	MT
F-AGE-yr			B0-MT	200104	MT
M			TB_{2006}/B_{msy}	1.671	
A50-yr			F_{2006}/F_{msy}	0.323	
L50-cm					

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



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

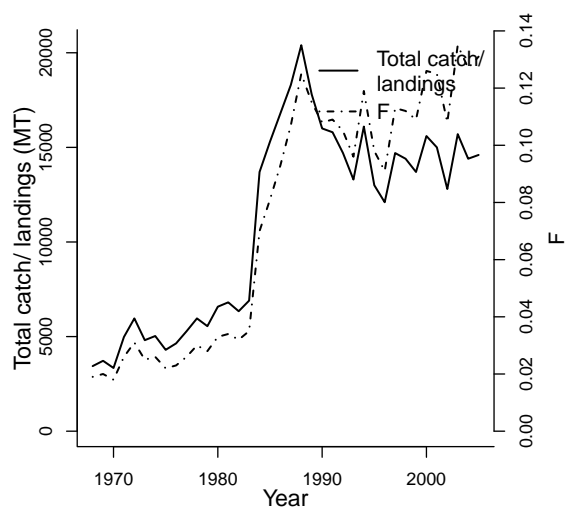
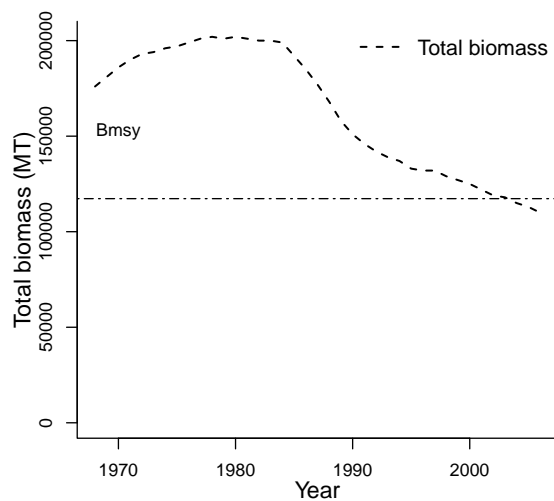
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
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	2010-07-18
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	Reference points		
M-1/yr	0.2	1/yr			
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Bmsy-MT (TB)	117300	MT
SSB-SEX-sex			Umsy-ratio (U)	0.1035	ratio
TB-AGE-yr			MSY-MT (TB)	12140	MT
F-AGE-yr			TB_{2006}/B_{msy}	0.938	
M					
A50-yr					

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



Assessment of Northern Atlantic swordfish (*Xiphias gladius*)

Assessment ID:ICCAT-SWORDNATL-1978-2007-JENSEN

Issue URL: <http://www.marinemarinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/249>

Area ID: multinational-ICCAT-NATL

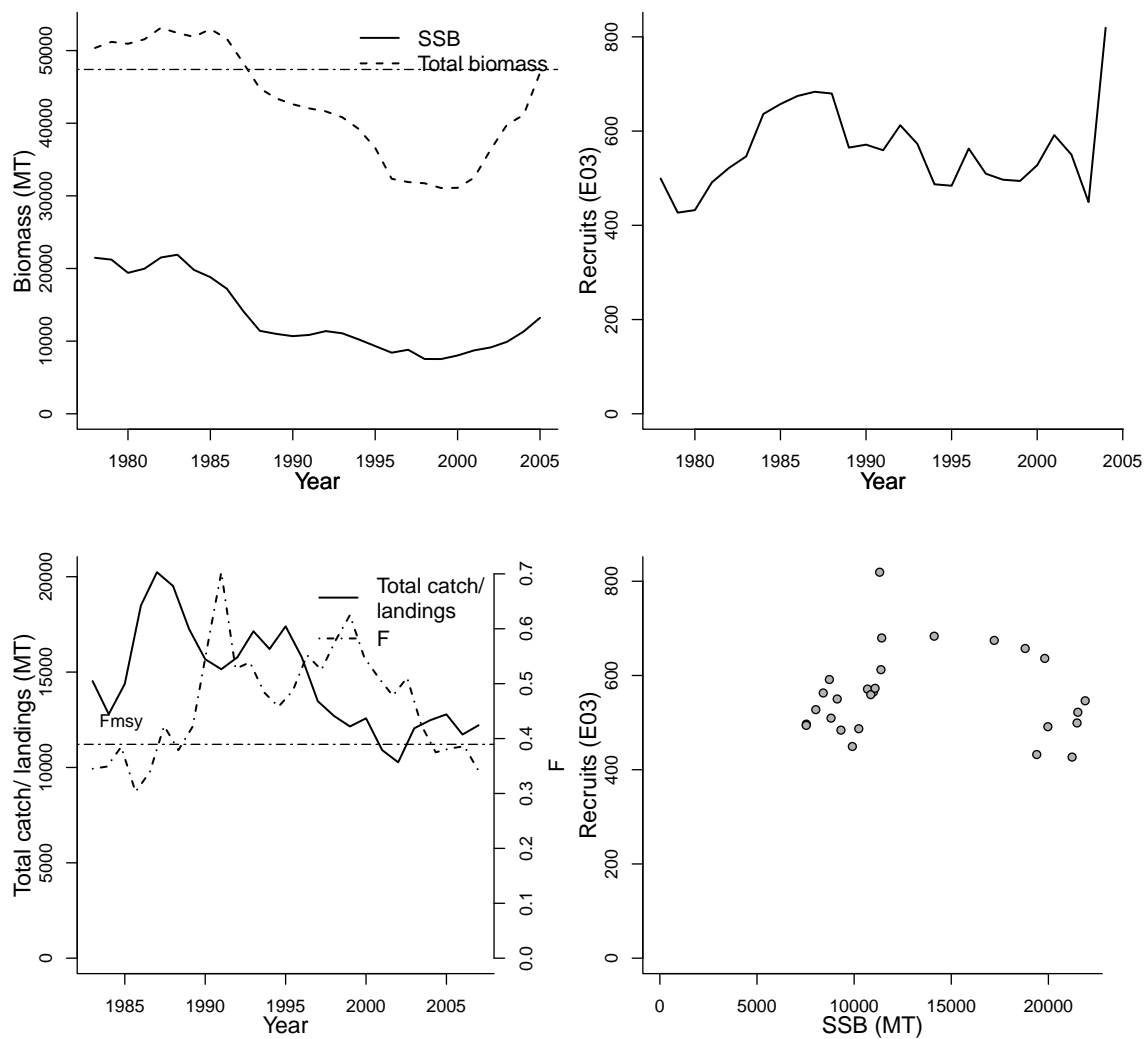
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1978-2007
Document	JENSEN-SWORDSATL-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2010-07-14

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	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
SSB-AGE-yr			F _{msy} -1/T (F)	0.3895	1/T
SSB-SEX-sex			MSY-MT (TB)	14879	MT
TB-AGE-yr			B _{msy} -MT (TB)	47399	MT
F-AGE-yr			TB_{2005}/B_{msy}	0.990	
M			F_{2005}/F_{msy}	0.875	
A50-yr					
L50-cm					

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-1970-2005-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/247>

Area ID: multinational-ICCAT-SATL

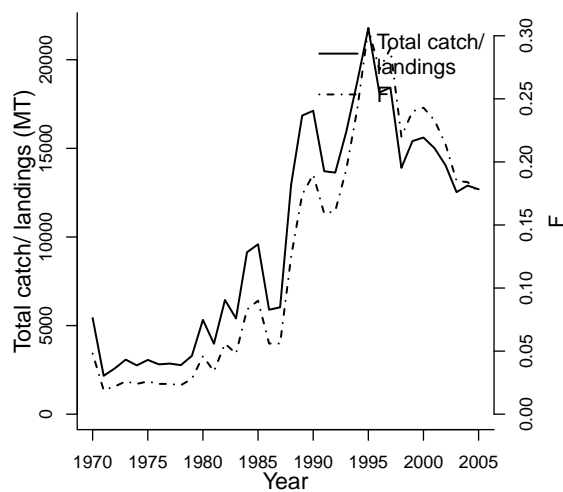
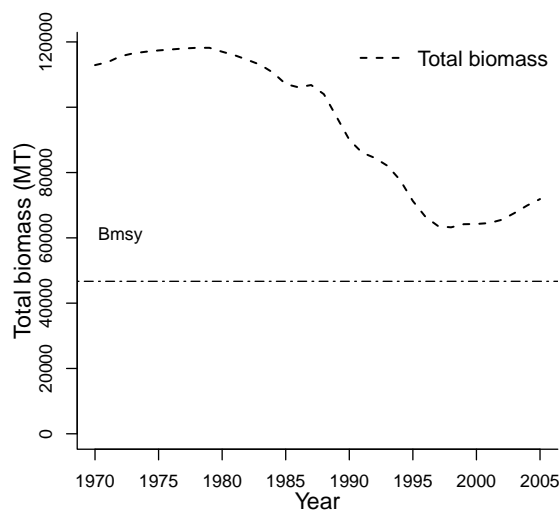
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
Assessment method	Surplus production model
Publication year	2007
Timeseries span	1970-2005
Document	JENSEN-SWORDSATL-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-10
Date last loaded	2010-07-18
QA/QC complete	YES
Date approved	2010-07-14

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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			F _{msy} -1/T (F)	0.356	1/T
SSB-SEX-sex			MSY-MT (TB)	16640	MT
TB-AGE-yr			B _{msy} -MT (TB)	46690	MT
F-AGE-yr			TB_{2005}/B_{msy}	1.540	
M			F_{2005}/F_{msy}	0.494	
A50-yr					
L50-cm					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year			1970	1970	1970
Maximum year			2005	2005	2005
Time series minimum			0.019	63220	2166
Time series maximum			0.306	118200	21780
Units			1/T	MT	MT



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

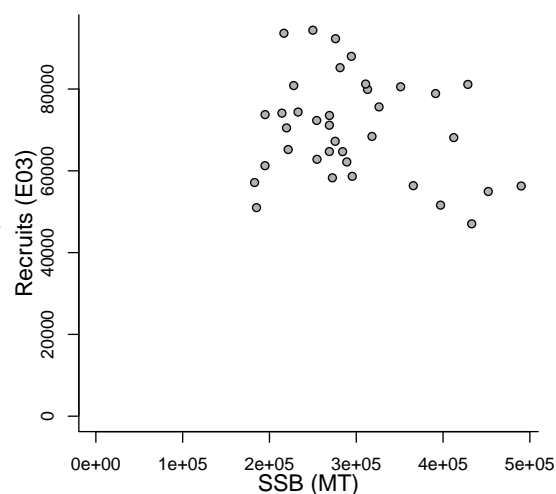
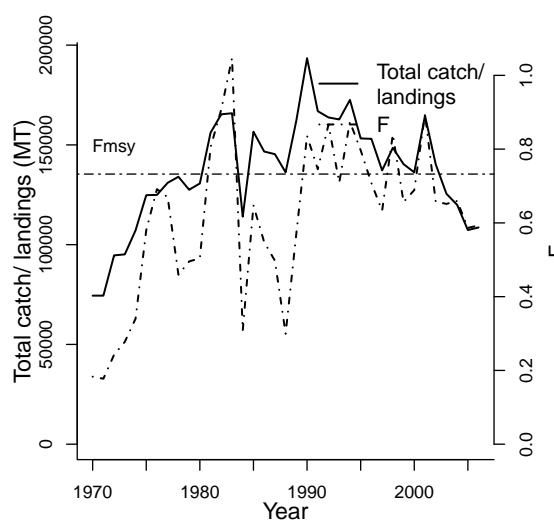
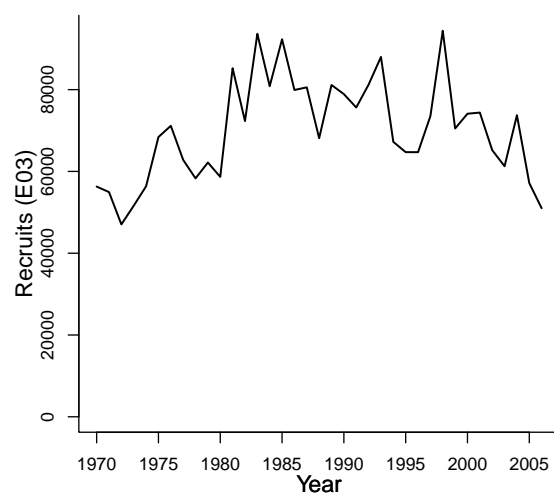
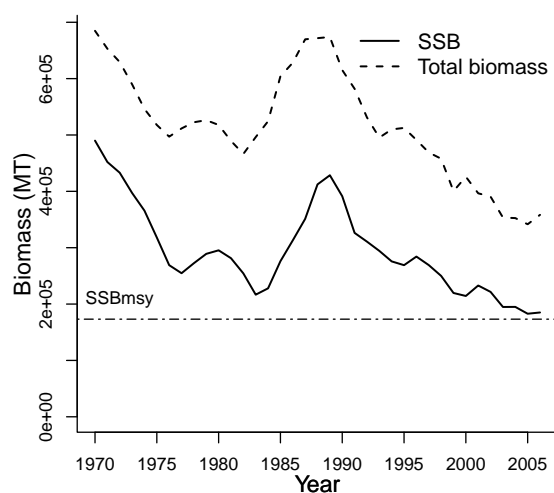
General assessment details.

Detail	Value
Management body	ICCAT
Assessment group	International Commission for the Conservation of Atlantic Tunas
Assessment authors	Anonymous
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	2010-07-16
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	Reference points		
REC-AGE-yr	0	yr	Parameter	Value	Units
SSB-AGE-yr			F _{msy} -1/T (F)	0.73235	1/T
SSB-SEX-sex			SSB _{msy} -MT (SSB)	173191.00788815	MT
TB-AGE-yr			MSY-MT (TB)	129800	MT
F-AGE-yr			F_{2006}/F_{msy}	0.810	
M			SSB_{2006}/SSB_{msy}	1.069	
A50-yr					
L50-cm					

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.

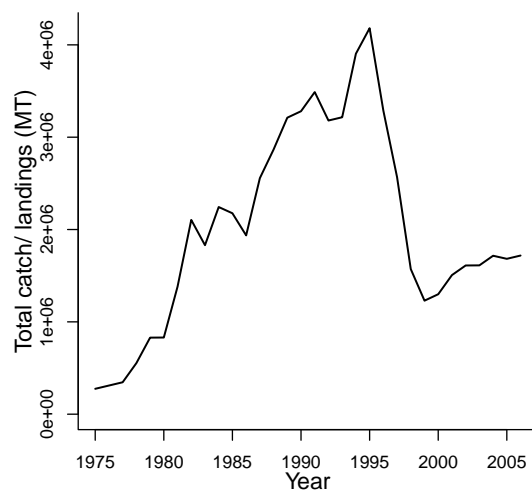
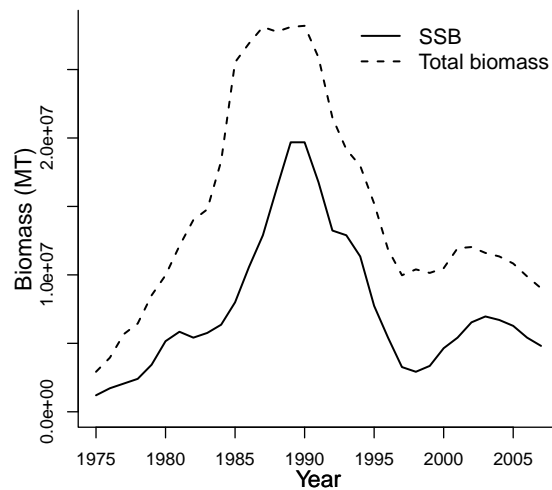
Detail	Value
Management body	SPRFMO
Assessment group	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Assessment authors	Canales, Cristian
Assessment method	Unknown
Publication year	2008
Timeseries span	1975-2007
Document	JENSEN-JACKMACKCH-2008.pdf (pdf in database)
Recorder	JENSEN
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



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

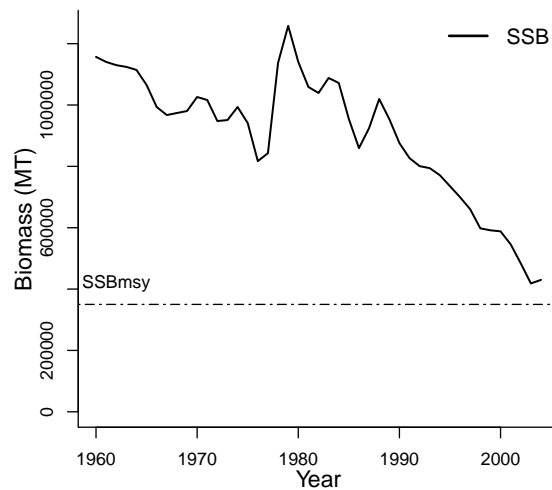
General assessment details.

Detail	Value
Management body	IOTC
Assessment group	Indian Ocean Tuna Commission
Assessment authors	Anonymous
Assessment method	Age-structured surplus production model
Publication year	2007
Timeseries span	1957-2006
Document	JENSEN-BIGEYEIO-2007.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-04-08
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

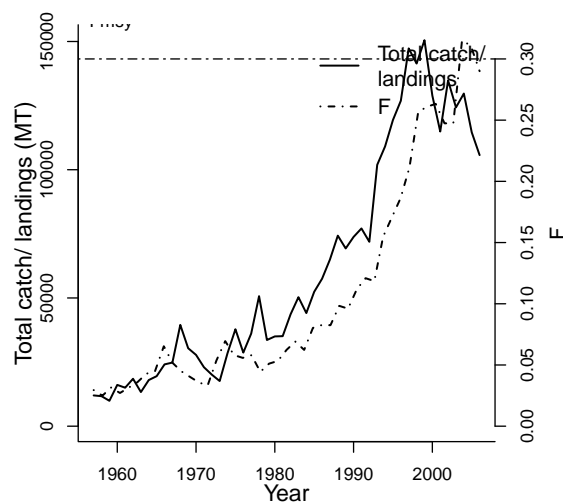
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

primary LME			secondary LME	tertiary LME
-97 - Indian High Seas			na	na
Parameter	Value	Units	Reference points	
			Parameter	Value Units
REC-AGE			F _{msy} -1/yr (F)	0.3 1/yr
SSB-AGE-yr			SSB _{msy} -MT (SSB)	350000 MT
SSB-SEX-sex			MSY-MT (TB)	111200 MT
TB-AGE-yr			B0-MT	1380000 MT
F-AGE-yr			SSB0-MT (SSB)	1150000 MT
M			F_{2004}/F_{msy}	0.967
A50-yr			SSB_{2004}/SSB_{msy}	1.229
L50-cm				

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

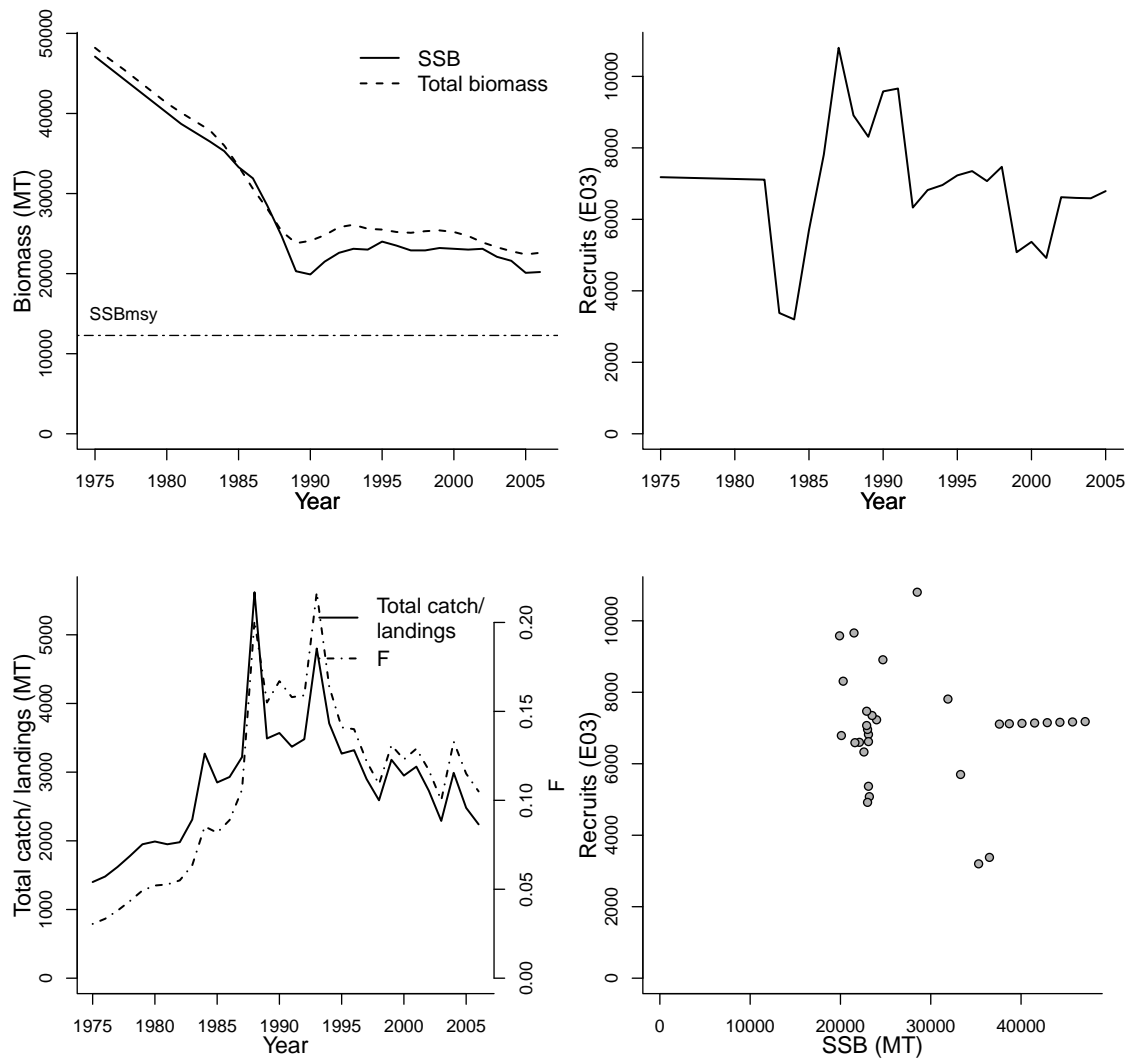
General assessment details.

Detail	Value
Management body	MFish
Assessment group	National Institute of Water and Atmospheric Research
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-19
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	Reference points		
Parameter	Value	Units	Parameter	Value	Units
REC-AGE-yr	1	yr	F _{msy} -1/yr (F)	0.32	1/yr
TB-AGE-yr	1+	yr	SSB _{msy} -MT (SSB)	12280.7293248	MT
A50-yr	4	yr	MSY-MT (TB)	3371.82	MT
M-1/yr	0.18	1/yr	SSB0-MT (SSB)	47128.15	MT
SSB-AGE-yr			BH-h-dimless	0.875	dimless
SSB-SEX-sex			F_{2006}/F_{msy}	0.328	
F-AGE-yr			SSB_{2006}/SSB_{msy}	1.645	
M					
L50-cm					

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

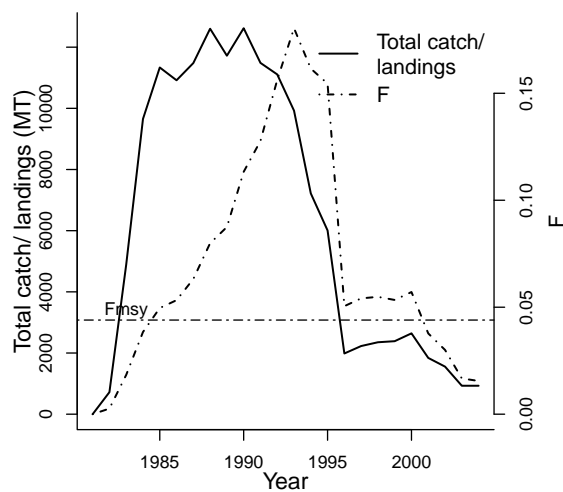
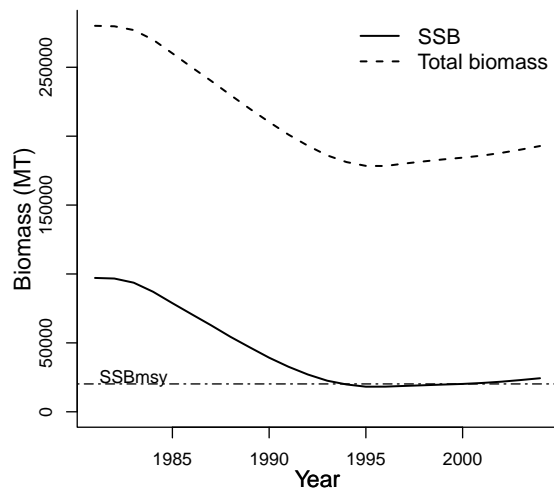
General assessment details.

Detail	Value
Management body	MFish
Assessment group	National Institute of Water and Atmospheric Research
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1981-2004
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-07-20
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	Reference points		
Parameter	Value	Units	Parameter	Value	Units
REC-AGE-yr	1	yr	F _{msy} -1/yr (F)	0.044	1/yr
TB-AGE-yr	1	yr	SSB _{msy} -MT (SSB)	20213.00407	MT
A50-yr	31.3	yr	MSY-MT (TB)	2598.07907	MT
M-1/yr	0.045	1/yr	SSB0-MT (SSB)	97126.1	MT
SSB-AGE-yr			BH-h-dimless	0.75	dimless
SSB-SEX-sex			F_{2004}/F_{msy}	0.353	
F-AGE-yr			SSB_{2004}/SSB_{msy}	1.204	
M					
L50-cm					

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



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

Assessment

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

Area ID: New Zealand-MFish-WECR

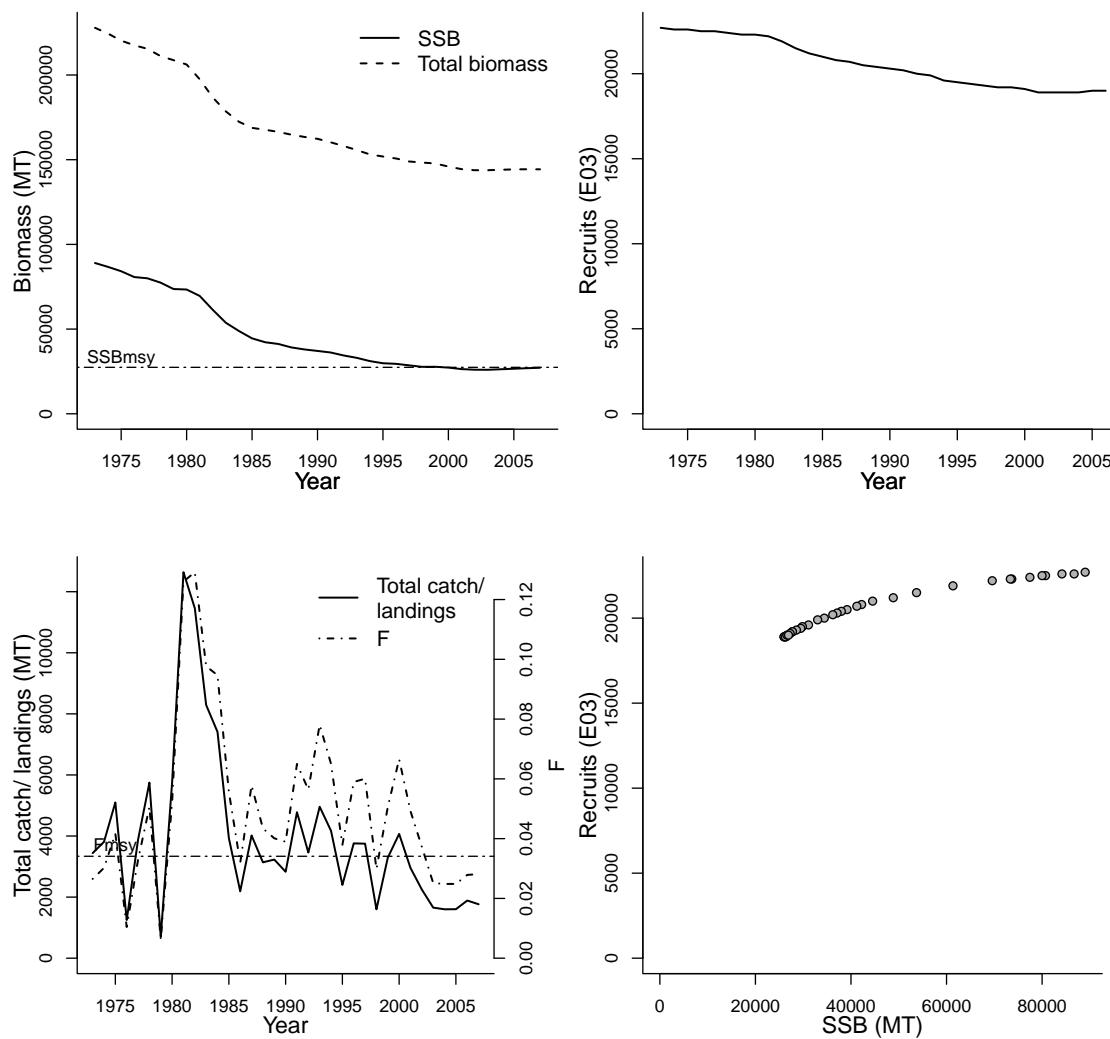
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1973-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	SSB0-MT (SSB)	88923	MT
A50-yr	38	yr	MSY-MT (TB)	1947	MT
M-1/yr	0.044	1/yr	SSBmsy-MT (SSB)	27427	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.0341	1/yr
SSB-SEX-sex			BH-h-dimless	0.75	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.825	
M			SSB_{2007}/SSB_{msy}	0.991	
L50-cm					

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

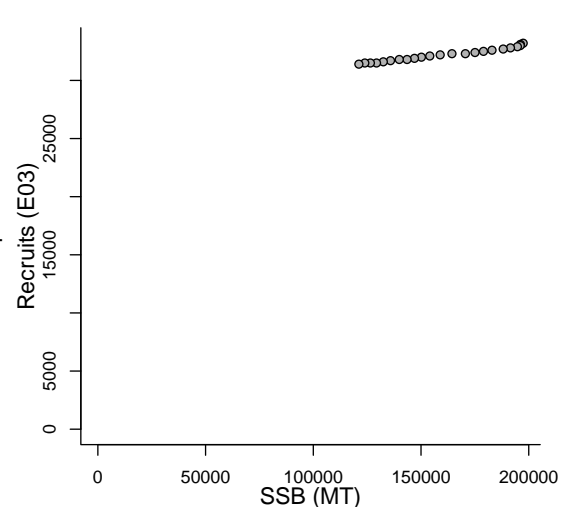
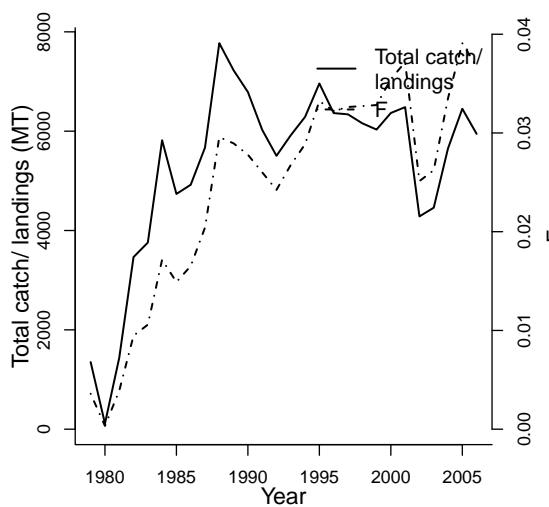
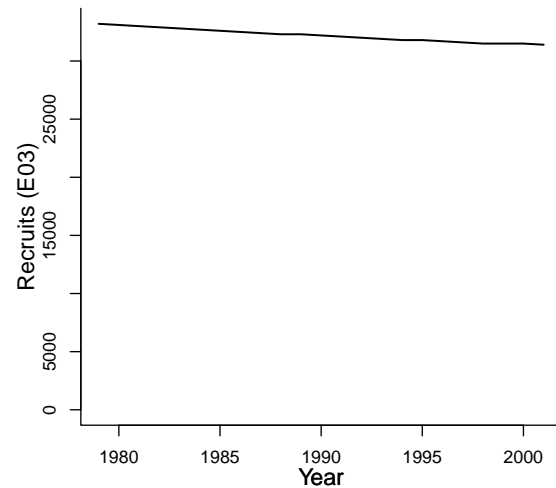
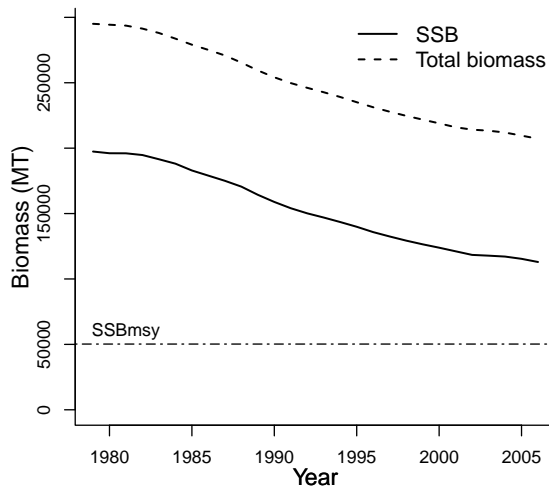
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-11-05
Date last loaded	2010-07-19
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	Reference points						
			Parameter	Value	Units						
REC-AGE-yr			5	yr	F _{msy} -1/yr (F)			0.0955		1/yr	
TB-AGE-yr			5	yr	MSY-MT (TB)			5132.855		MT	
A50-yr			30.5	yr	SSB _{msy} -MT (SSB)			50242.75375		MT	
M-1/yr			0.063	1/yr	SSB0-MT (SSB)			197417.5		MT	
SSB-AGE-yr					BH-h-dimless			0.75		dimless	
SSB-SEX-sex					F_{2006}/F_{msy}			0.385			
F-AGE-yr					SSB_{2006}/SSB_{msy}			2.249			
M											
L50-cm											

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-SMOOTHOREOWECCR-1973-2004-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/221>

Area ID: New Zealand-MFish-WECC

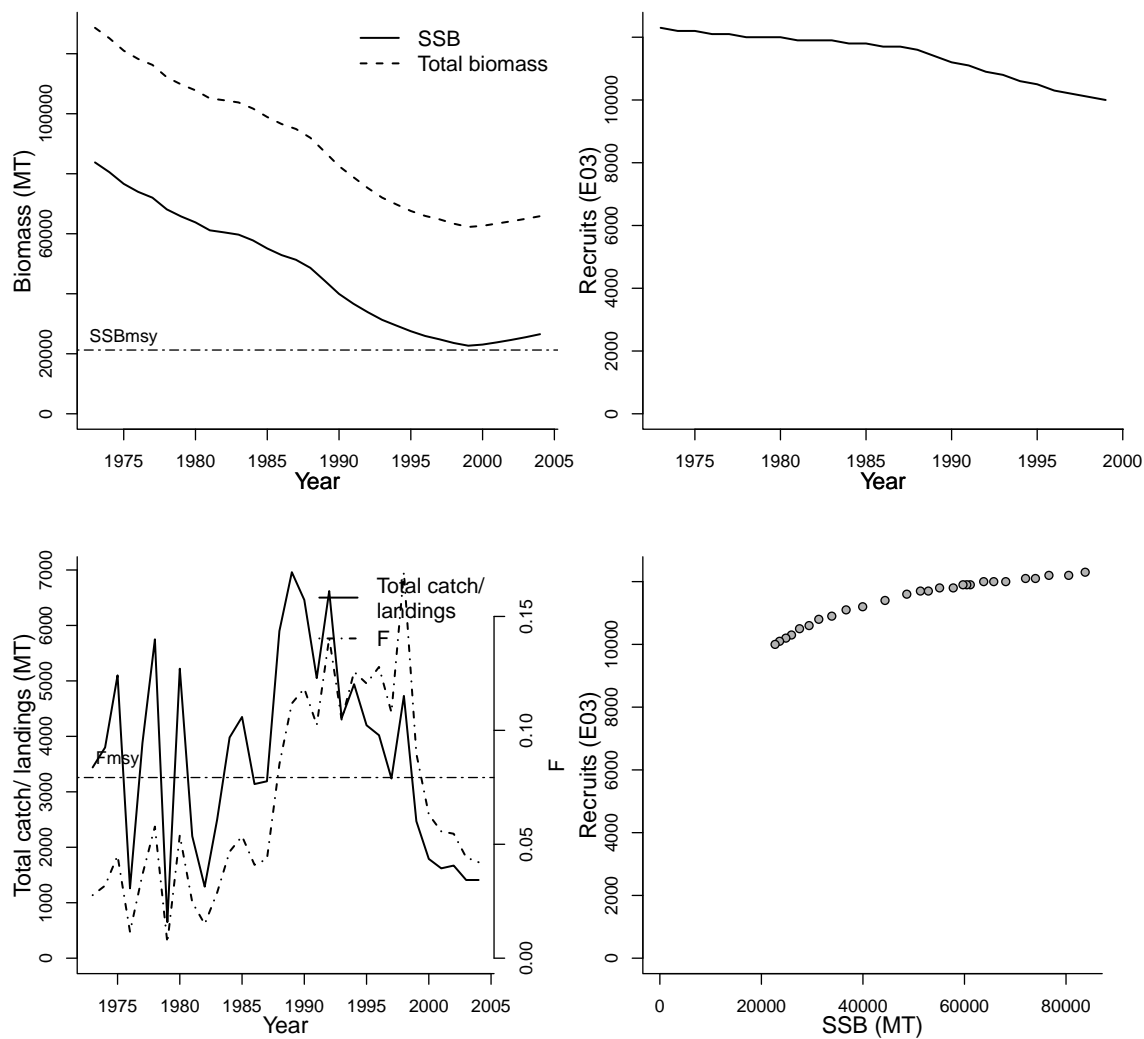
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Deepwater Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1973-2004
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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	Reference points		
REC-AGE-yr	5	yr	Parameter	Value	Units
TB-AGE-yr	5	yr	Fmsy-1/yr (F)	0.0793	1/yr
A50-yr	25.5	yr	MSY-MT (TB)	2218.0808	MT
M-1/yr	0.063	1/yr	SSBmsy-MT (SSB)	21242.3892	MT
SSB-AGE-yr			SSB0-MT (SSB)	85310.8	MT
SSB-SEX-sex			BH-h-dimless	0.75	dimless
F-AGE-yr			F_{2004}/F_{msy}	0.531	
M			SSB_{2004}/SSB_{msy}	1.249	
L50-cm					

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

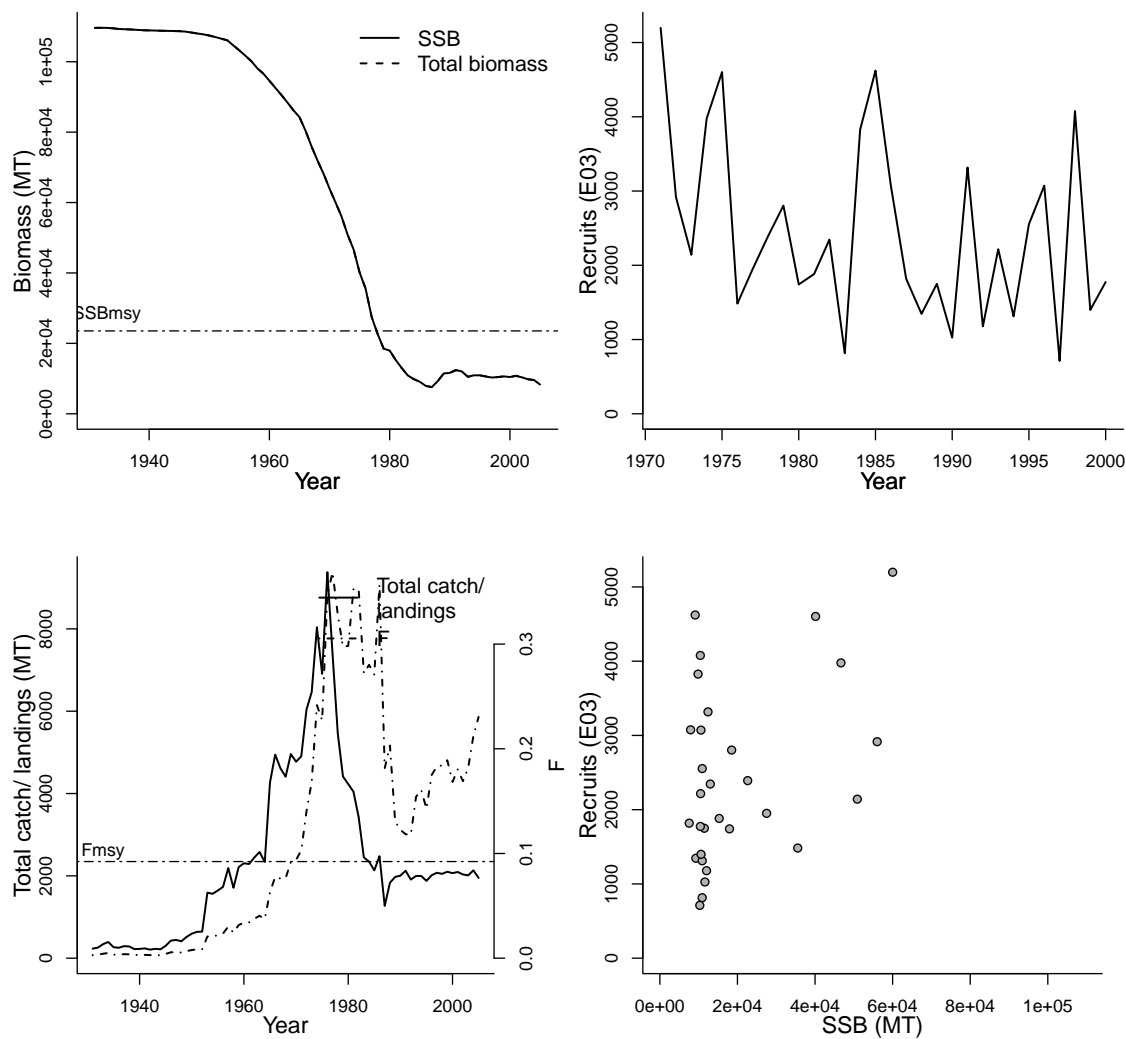
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1931-2005
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-24
Date last loaded	2010-07-19
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	Reference points		
			Parameter	Value	Units
REC-AGE-yr	3	yr	Fmsy-1/yr (F)	0.0923	1/yr
TB-AGE-yr	3	yr	MSY-MT (TB)	2284.7076	MT
A50-yr	3	yr	SSBmsy-MT (SSB)	23536.1148	MT
M-1/yr	0.0507649	1/yr	SSB0-MT (SSB)	120884	MT
SSB-AGE-yr			BH-h-dimless	1	dimless
SSB-SEX-sex			F_{2005}/F_{msy}	2.497	
F-AGE-yr			SSB_{2005}/SSB_{msy}	0.353	
M					
L50-cm					

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

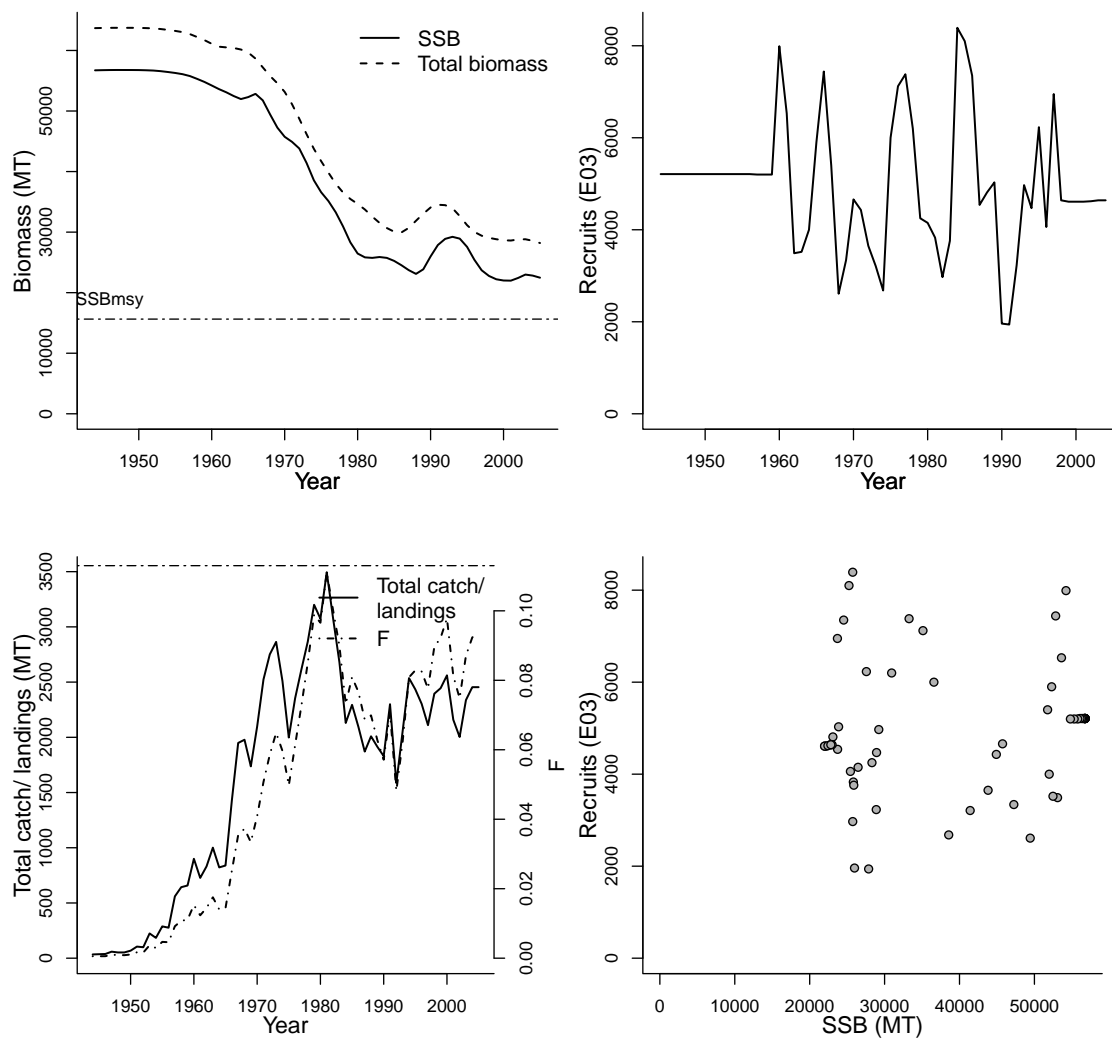
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Inshore Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1944-2005
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	Reference points		
			Parameter	Value	Units
REC-AGE-yr	1	yr	F _{msy} -1/yr (F)	0.113	1/yr
TB-AGE-yr	1	yr	MSY-MT (TB)	2170.41121	MT
A50-yr	5	yr	SSB _{msy} -MT (SSB)	15634.89433	MT
M-1/yr	0.1	1/yr	SSB0-MT (SSB)	56668.7	MT
SSB-AGE-yr			BH-h-dimless	0.75	dimless
SSB-SEX-sex			F_{2005}/F_{msy}	0.830	
F-AGE-yr			SSB_{2005}/SSB_{msy}	1.437	
M					
L50-cm					

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.

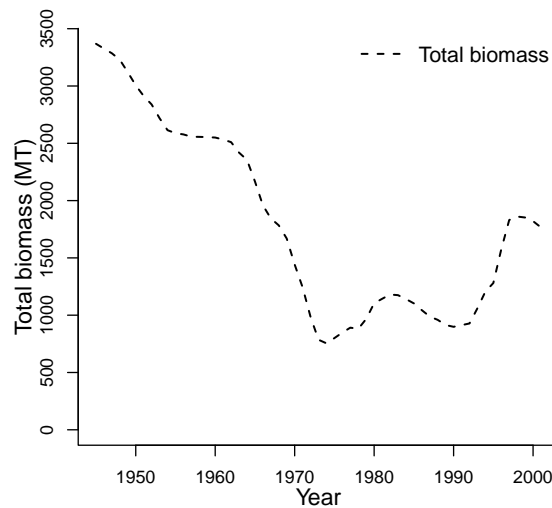
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

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

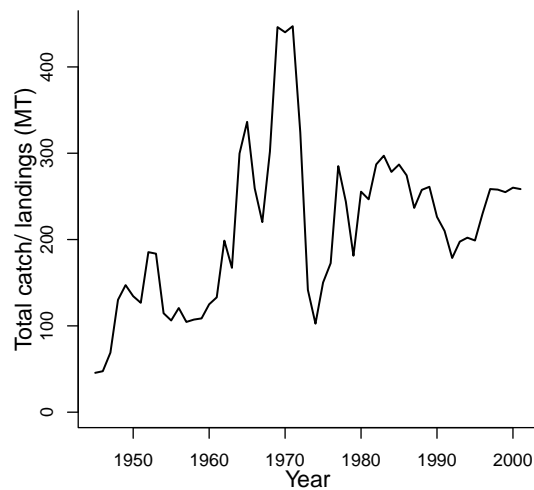
primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
SSB-SEX-sex			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

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.

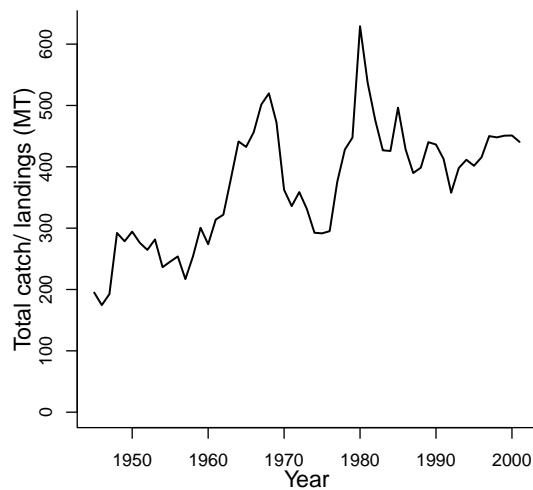
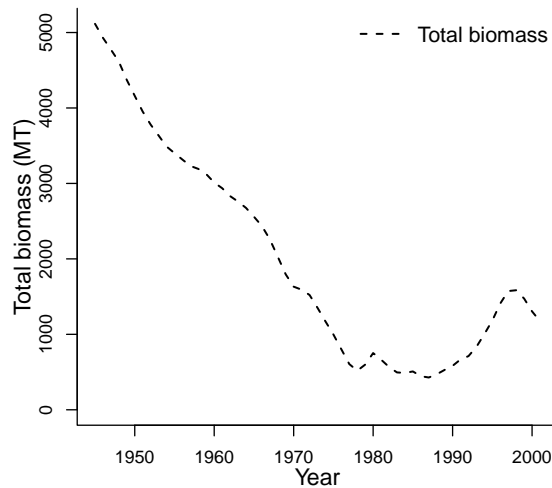
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2001
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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



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.

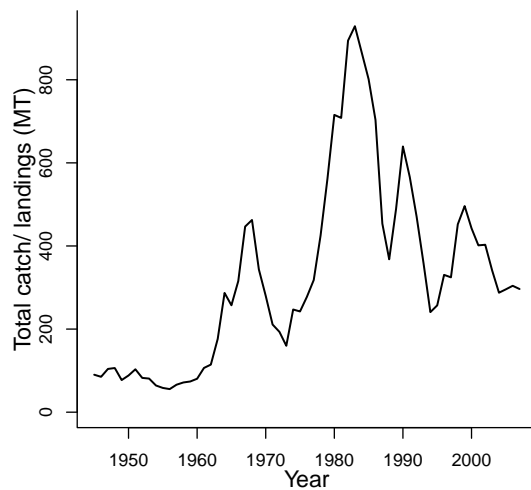
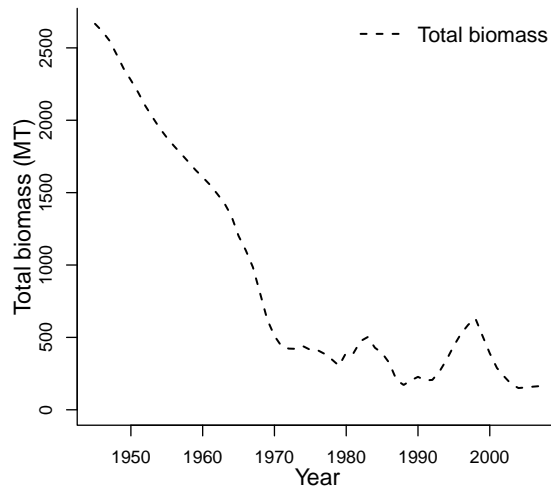
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2007
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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



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.

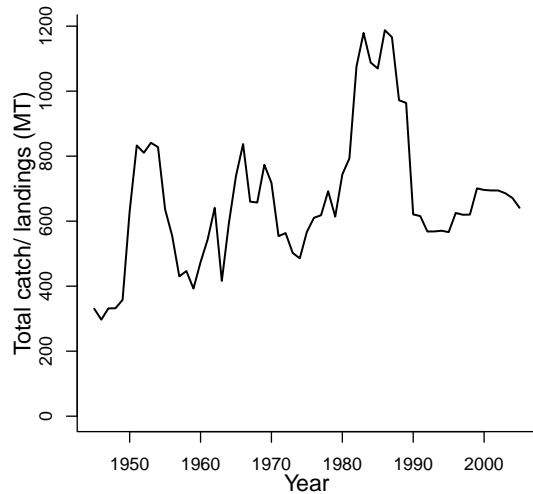
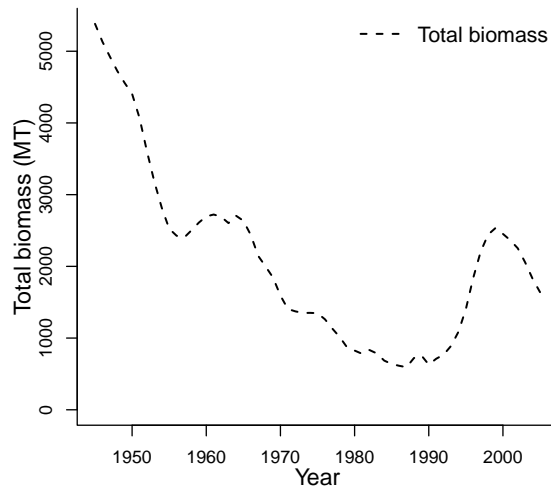
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2005
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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



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.

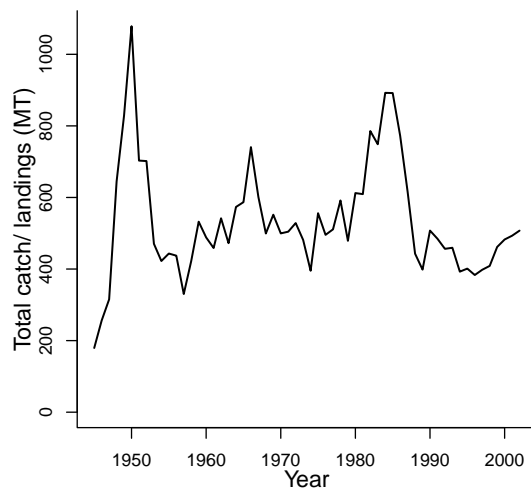
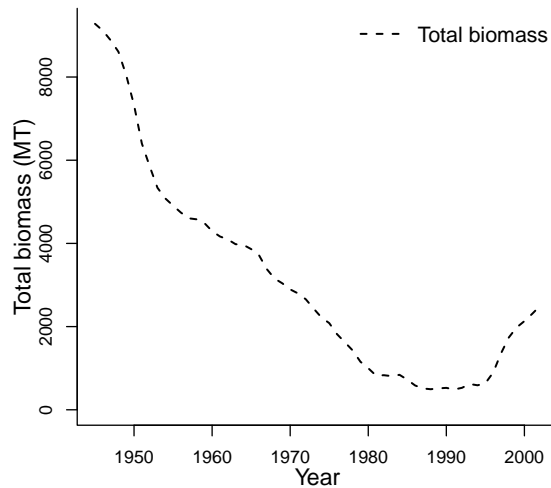
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1945-2002
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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



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.

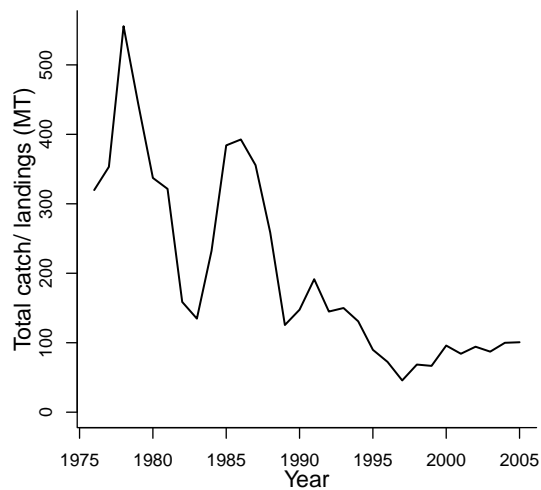
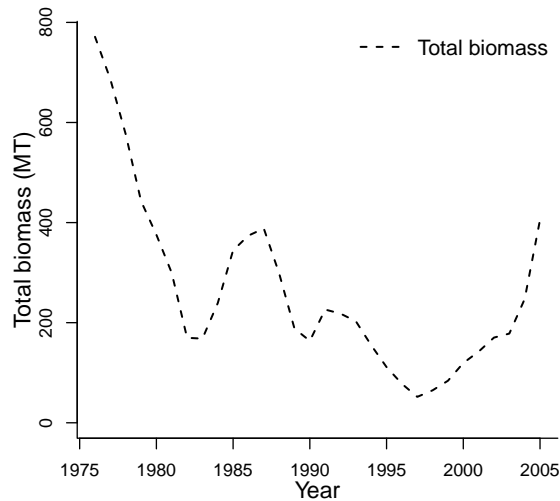
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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



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.

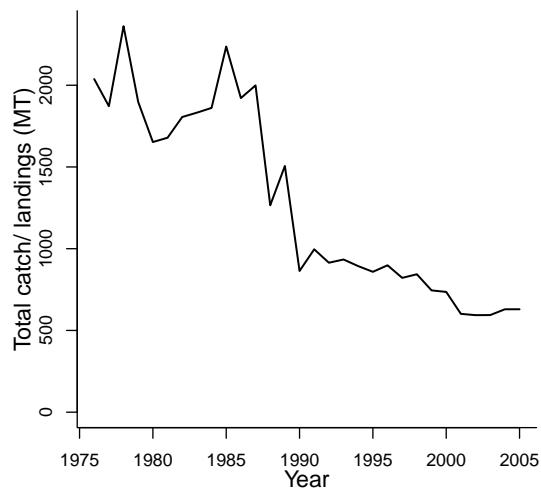
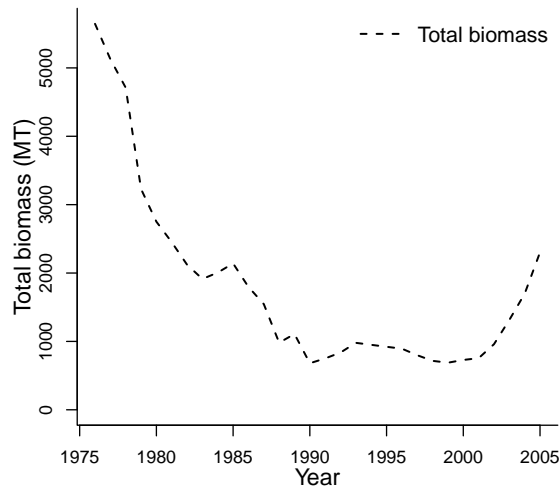
Detail	Value
Management body	MFish
Assessment group	Lobster Working Group
Assessment authors	Starr, Pall
Assessment method	Multi-stock length-based model
Publication year	
Timeseries span	1976-2005
Document	PALLSTARRperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-04-07
Date last loaded	2010-07-19
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



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	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1952-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-19
QA/QC complete	NO
Date approved	

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

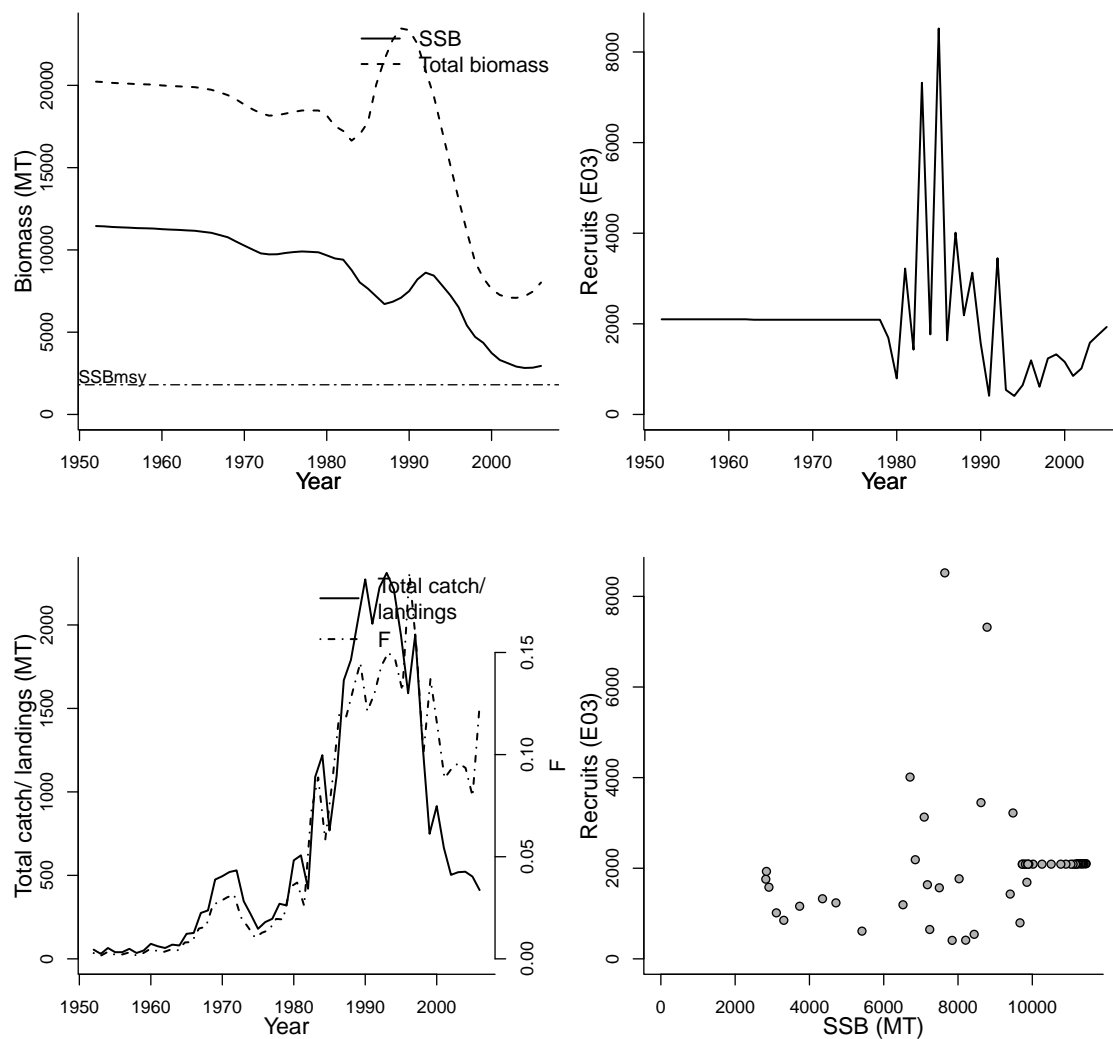
primary LME	secondary LME	tertiary LME
46 - New Zealand Shelf	na	na

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		

Parameter	Reference points	
	Value	Units
SSB0-MT (SSB)	11484.666666666667	MT
MSY-MT (TB)	1432.0427333333333	MT
SSBmsy-MT (SSB)	1803.0261666666667	MT
Fmsy-1/yr (F)	0.2895666666666667	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

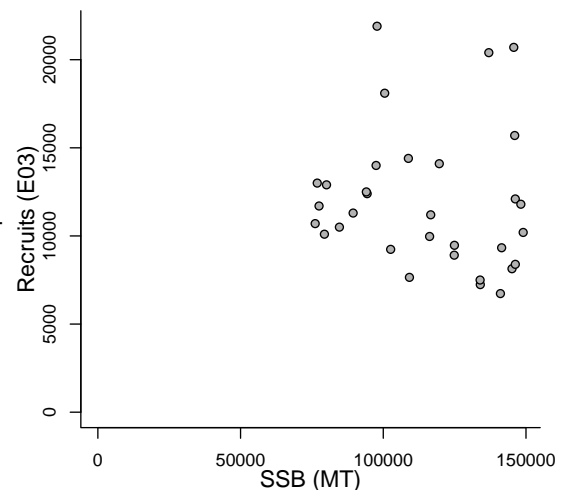
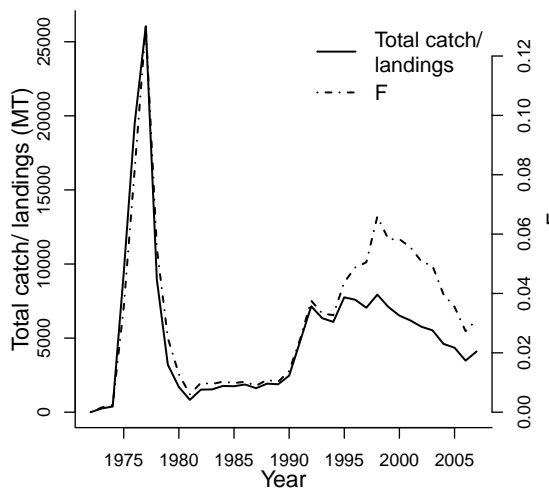
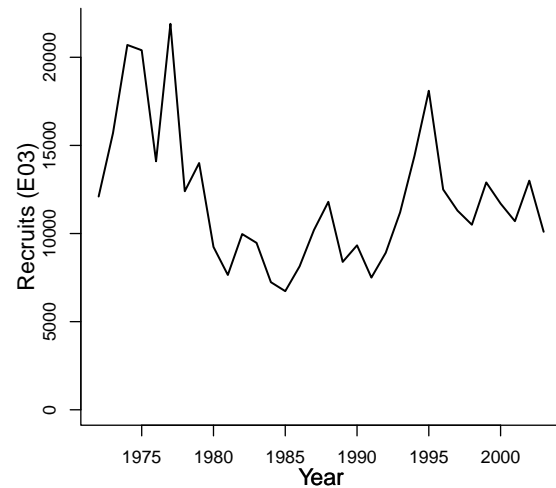
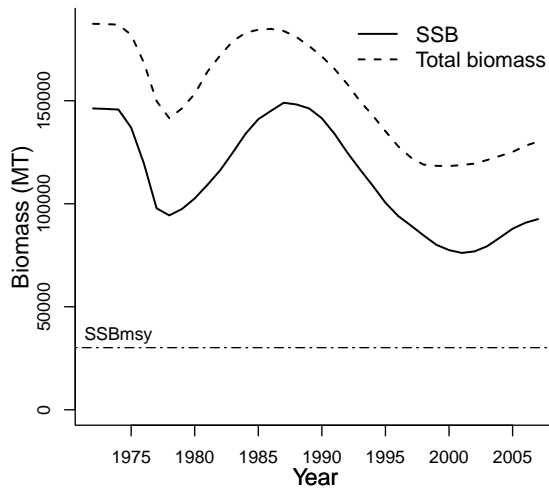
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	146255	MT
A50-yr	9	yr	MSY-MT (TB)	9755.2085	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	30157.781	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.354	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.088	
M			SSB_{2007}/SSB_{msy}	3.069	
L50-cm					

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

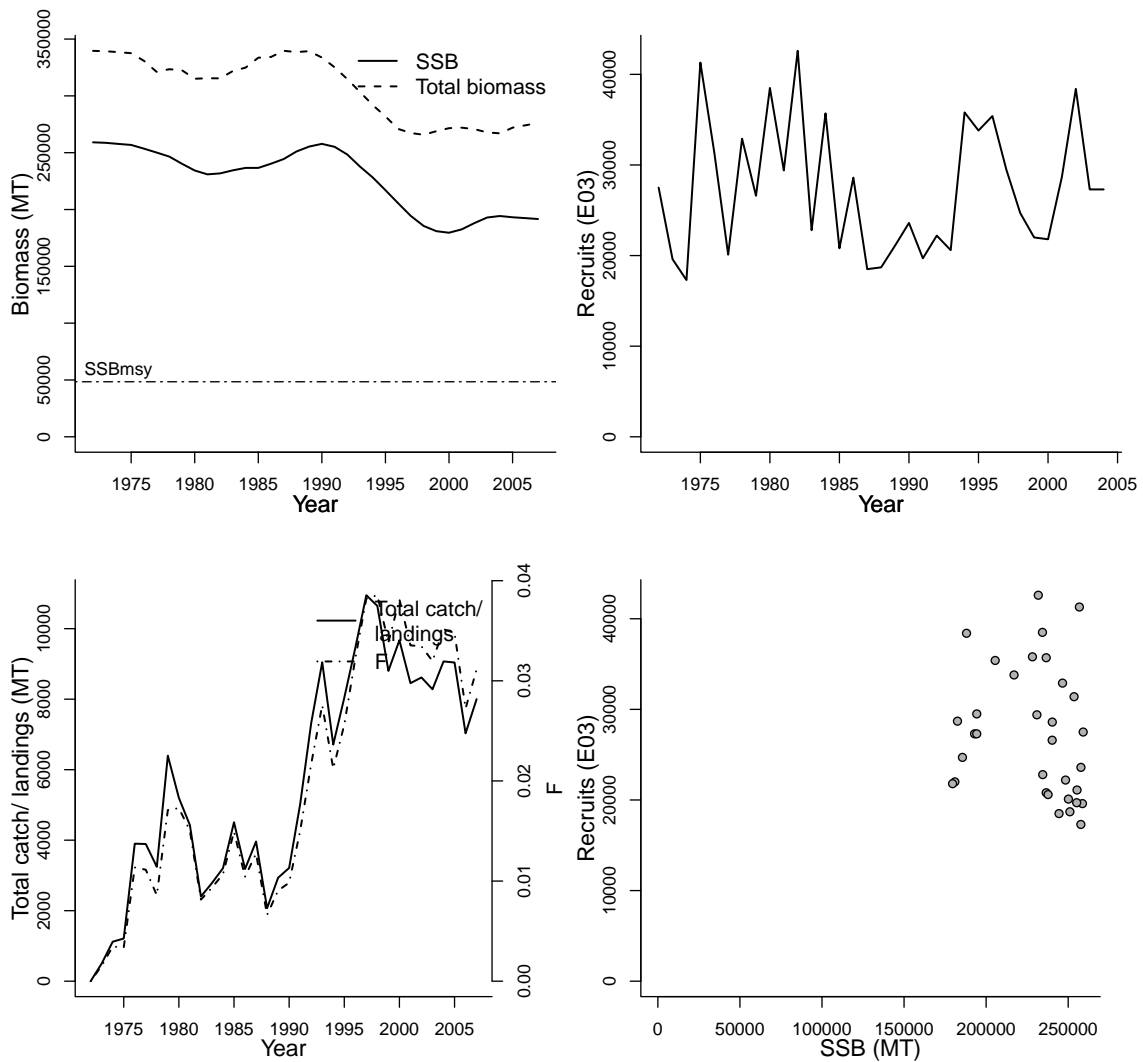
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	Reference points					
REC-AGE-yr	3	yr	Parameter	Value	Units			
TB-AGE-yr	3	yr	SSB0-MT (SSB)	259140	MT			
A50-yr	8	yr	MSY-MT (TB)	20497.974	MT			
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	48407.352	MT			
SSB-AGE-yr			Fmsy-1/yr (F)	0.314	1/yr			
SSB-SEX-sex			BH-h-dimless	0.9	dimless			
F-AGE-yr			F_{2007}/F_{msy}	0.099				
M			SSB_{2007}/SSB_{msy}	3.959				
L50-cm								

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

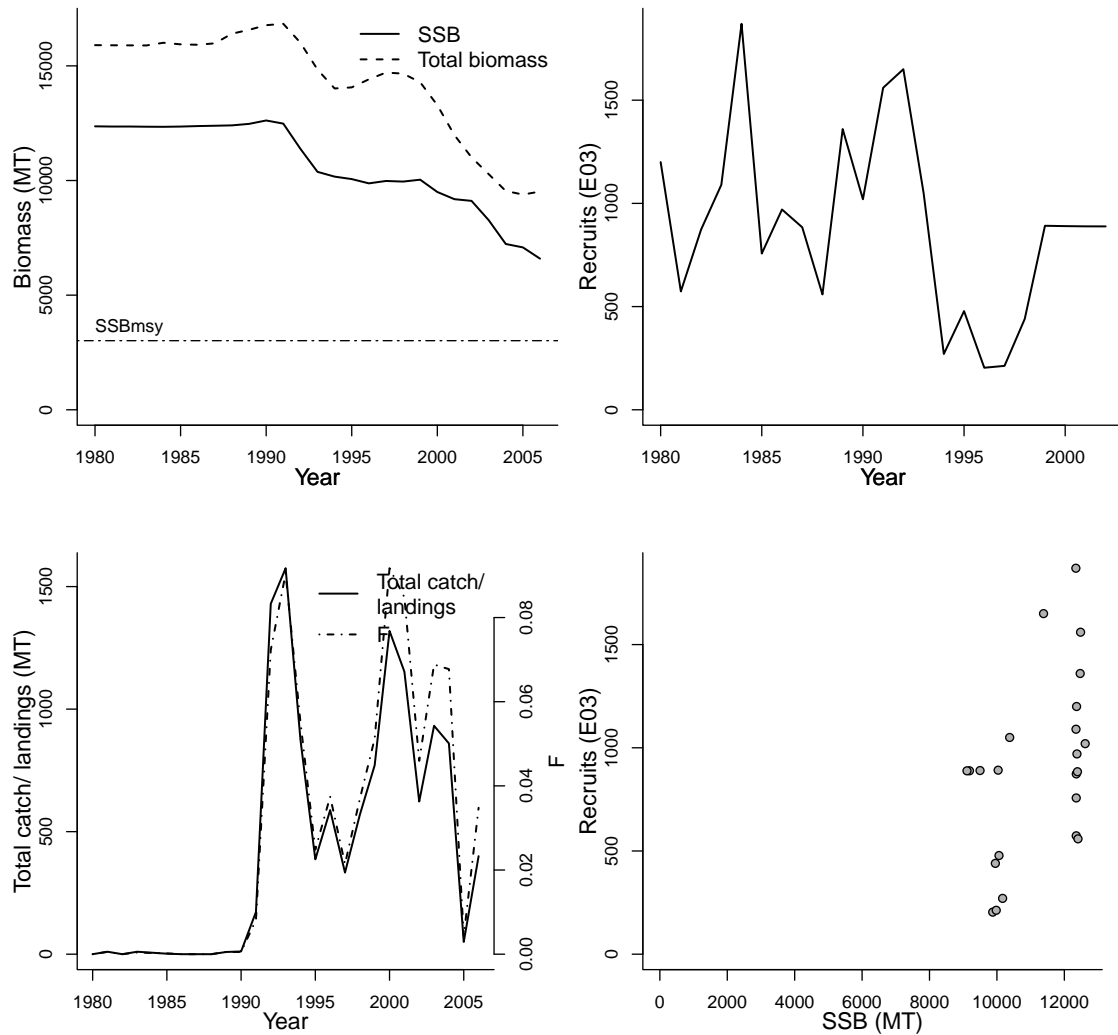
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1980-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	12363	MT
A50-yr	9	yr	MSY-MT (TB)	893.8449	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	3014.0994	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.308	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2006}/F_{msy}	0.113	
M			SSB_{2006}/SSB_{msy}	2.187	
L50-cm					

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

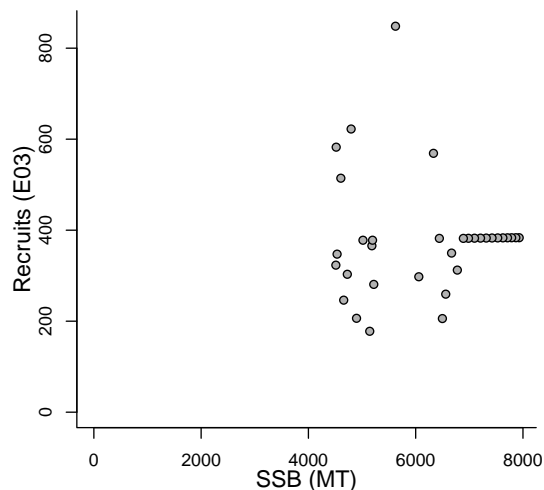
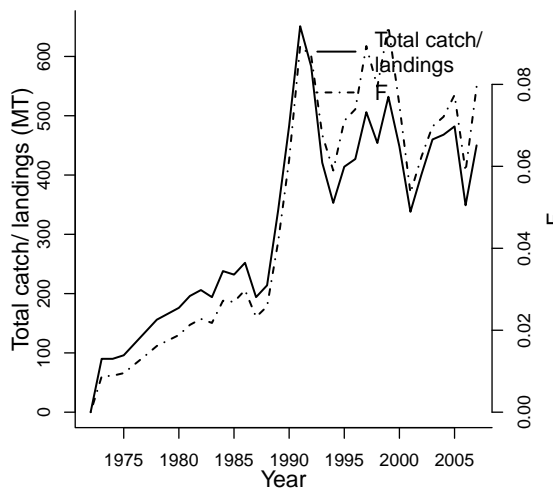
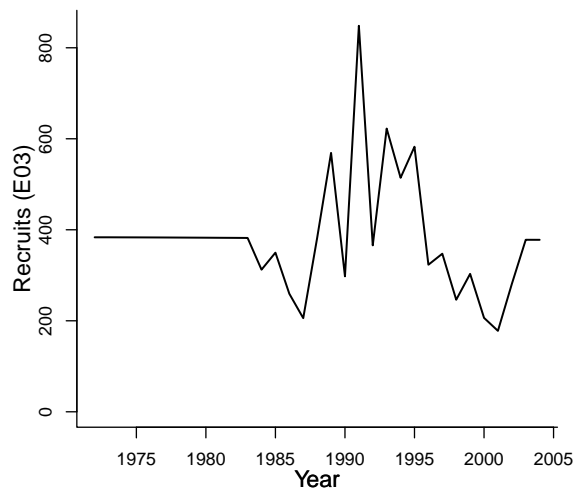
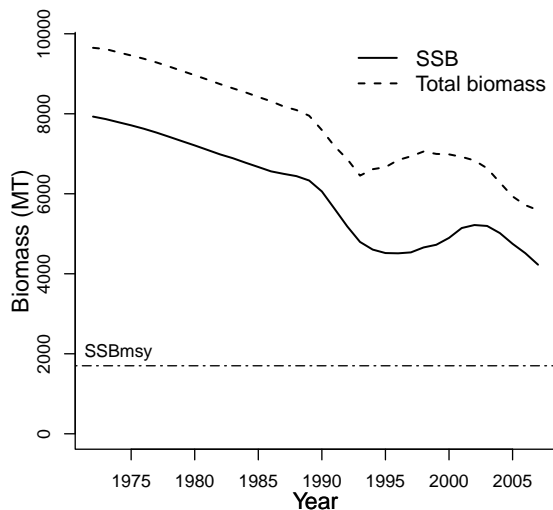
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	7929.48	MT
A50-yr	8.75	yr	MSY-MT (TB)	515.8919688	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	1700.080512	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.246	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.323	
M			SSB_{2007}/SSB_{msy}	2.486	
L50-cm					

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

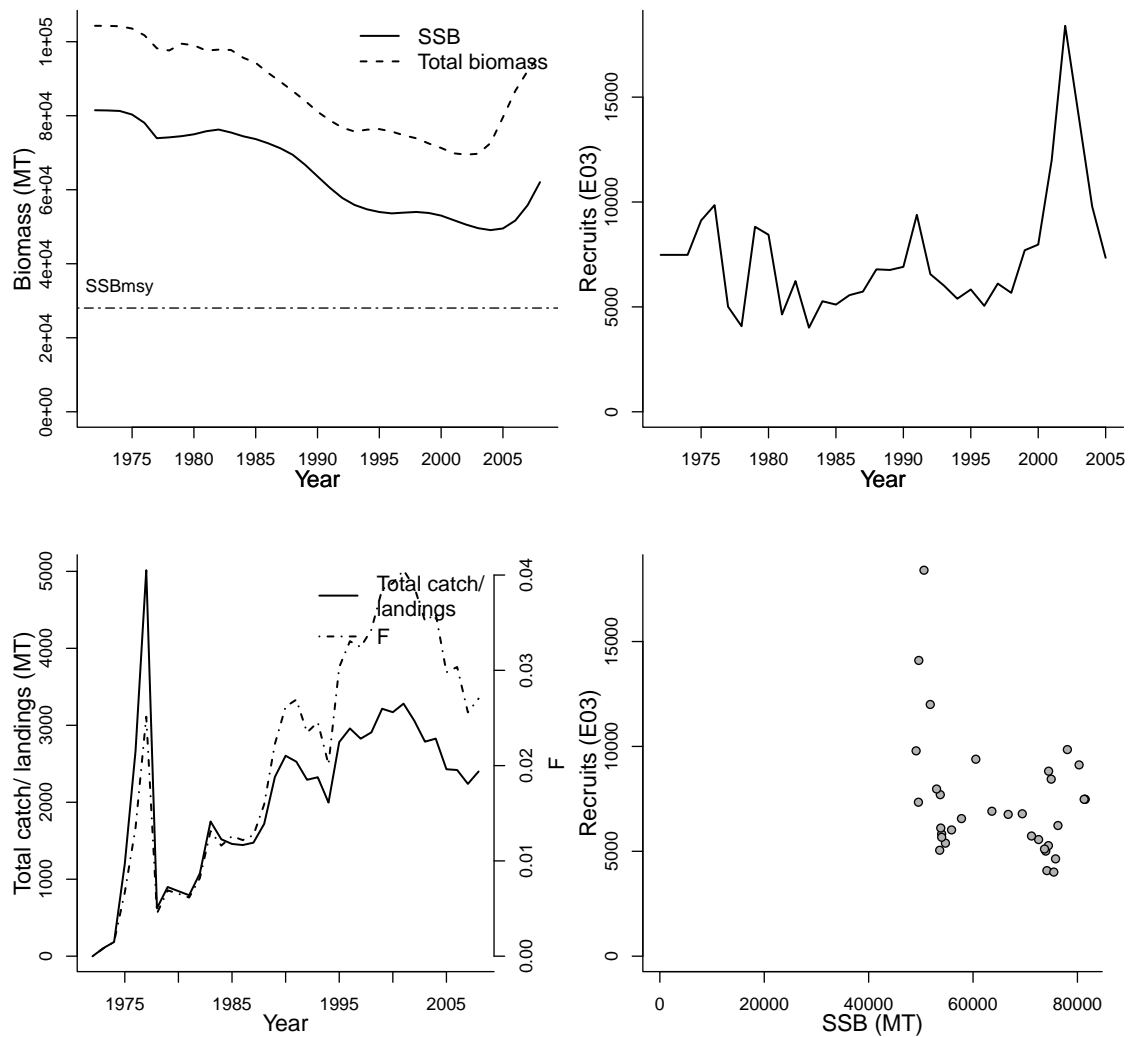
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1972-2008
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-19
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	Reference points		
REC-AGE-yr	3	yr	Parameter	Value	Units
TB-AGE-yr	3	yr	SSB0-MT (SSB)	81482.4	MT
A50-yr	8.25	yr	MSY-MT (TB)	6062.29056	MT
M-1/yr	0.22	1/yr	SSBmsy-MT (SSB)	28029.9456	MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.202	1/yr
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2008}/F_{msy}	0.134	
M			SSB_{2008}/SSB_{msy}	2.214	
L50-cm					

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.

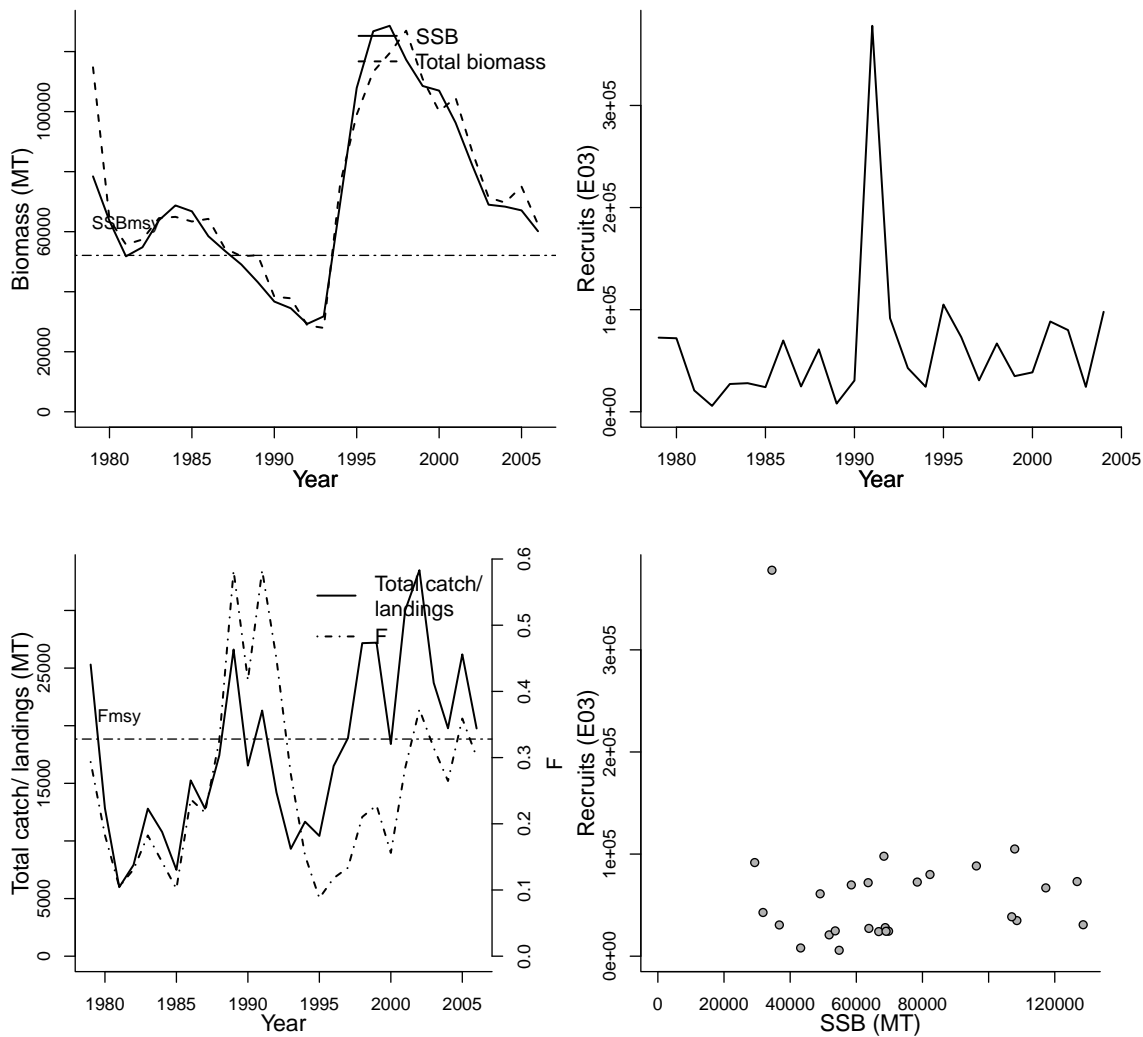
Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1979-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-09
Date last loaded	2010-07-20
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	Reference points		
			Parameter	Value	Units
REC-AGE-yr	2	yr	Fmsy-1/yr (F)	0.328	1/yr
TB-AGE-yr	2	yr	SSBmsy-MT (SSB)	52105.0464	MT
A50-yr	3	yr	MSY-MT (TB)	19276.2356	MT
M-1/yr	0.114	1/yr	SSB0-MT (SSB)	328946.0	MT
SSB-AGE-yr			R0-E00	5.84E+07	E00
SSB-SEX-sex			BH-h-dimless	1	dimless
F-AGE-yr			F_{2006}/F_{msy}	0.918	
M			SSB_{2006}/SSB_{msy}	1.154	
L50-cm					

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

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

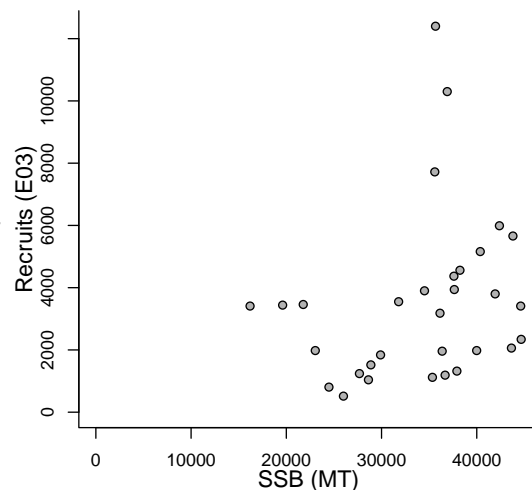
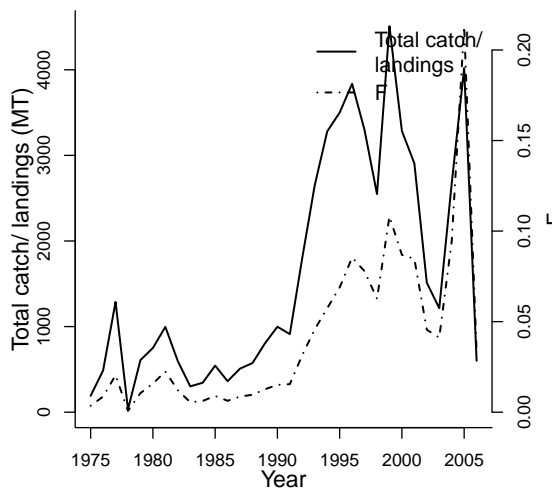
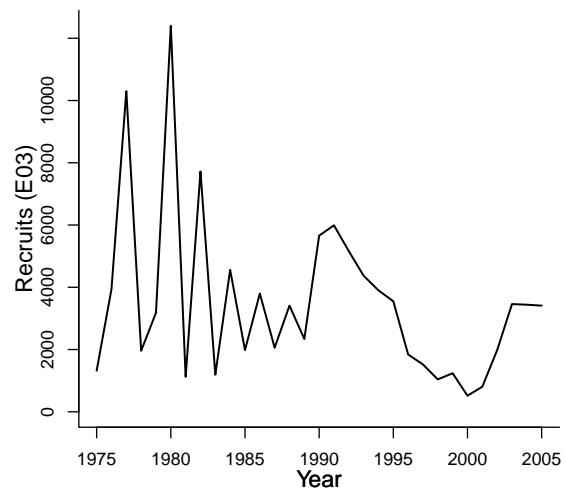
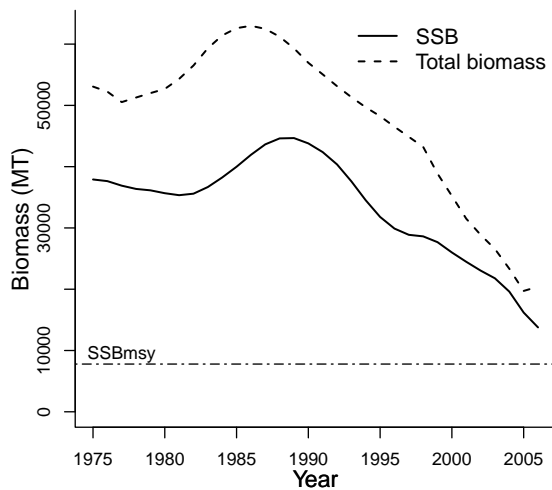
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1975-2006
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-20
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	Reference points		
			Parameter	Value	Units
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	2.90E-01	1/yr
TB-AGE-yr	1	yr	MSY-MT (TB)	3042.60651	MT
A50-yr	7	yr	SSBmsy-MT (SSB)	7786.9455	MT
M-1/yr	0.18	1/yr	SSB0-MT (SSB)	37985.1	MT
SSB-AGE-yr			BH-h-dimless	0.9	dimless
SSB-SEX-sex			F_{2006}/F_{msy}	0.116	
F-AGE-yr			SSB_{2006}/SSB_{msy}	1.768	
M					
L50-cm					

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

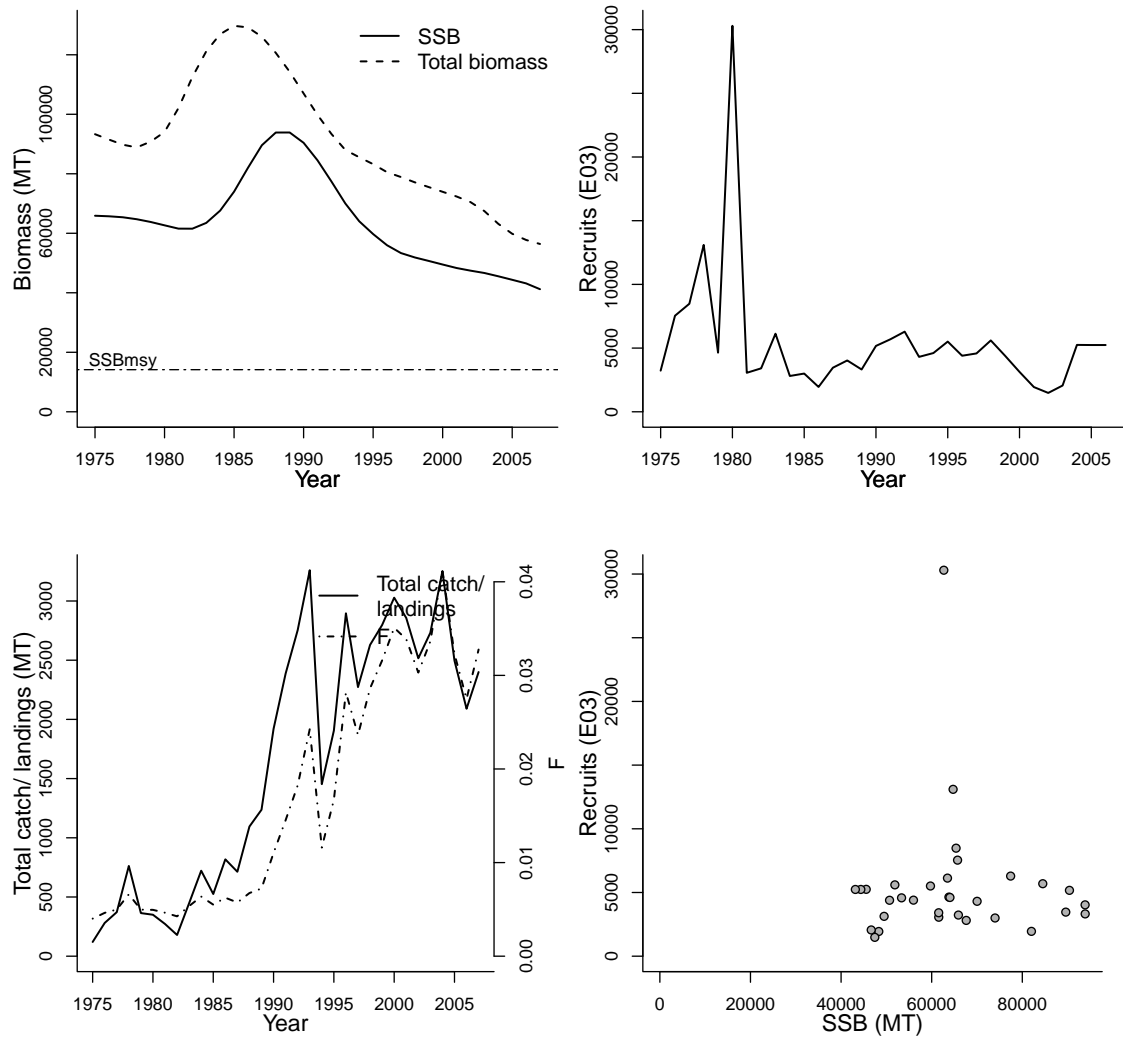
General assessment details.

Detail	Value
Management body	MFish
Assessment group	Middle Depths Working Group
Assessment authors	Cordue, PatrickL.
Assessment method	CASAL
Publication year	
Timeseries span	1975-2007
Document	CORDUEperscomm.pdf (pdf not in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-20
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	Reference points		
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr	1	yr	Fmsy-1/yr (F)	0.307	1/yr
A50-yr	7.25	yr	MSY-MT (TB)	5810.2831	MT
M-1/yr	0.18	1/yr	SSBmsy-MT (SSB)	14153.0846	MT
SSB-AGE-yr			SSB0-MT (SSB)	65951	MT
SSB-SEX-sex			BH-h-dimless	0.9	dimless
F-AGE-yr			F_{2007}/F_{msy}	0.107	
M			SSB_{2007}/SSB_{msy}	2.911	
L50-cm					

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.

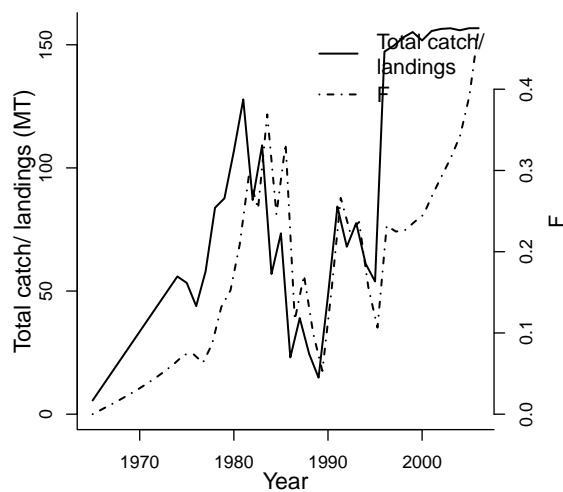
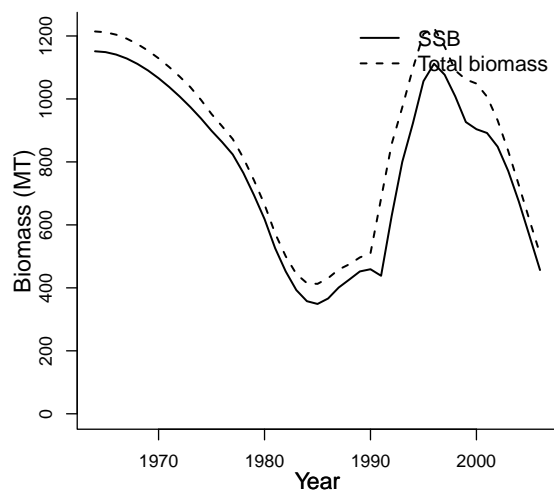
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	Breen, Paul
Assessment method	Custom length-based Bayesian Model
Publication year	2007
Timeseries span	1964-2006
Document	ref07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-21
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



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.

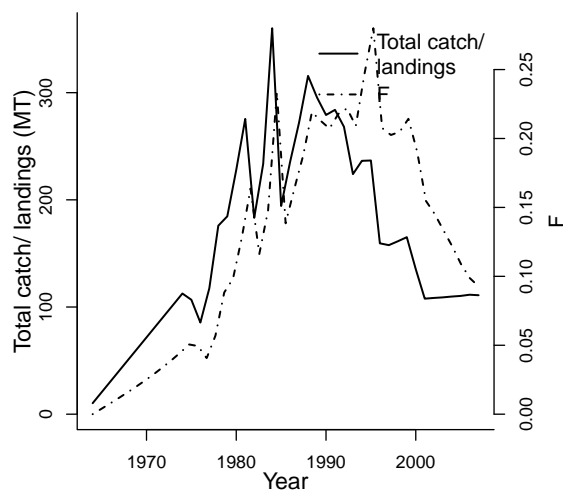
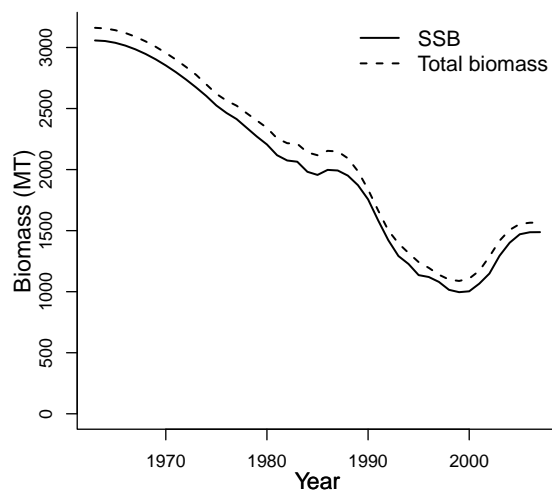
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	Breen, Paul A.
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1963-2007
Document	ref08-05-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-21
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



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.

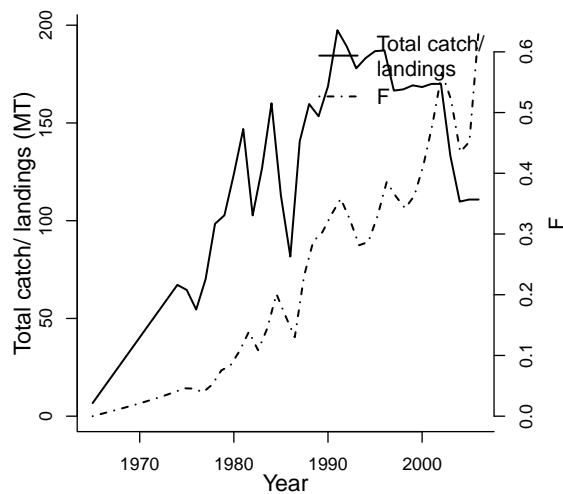
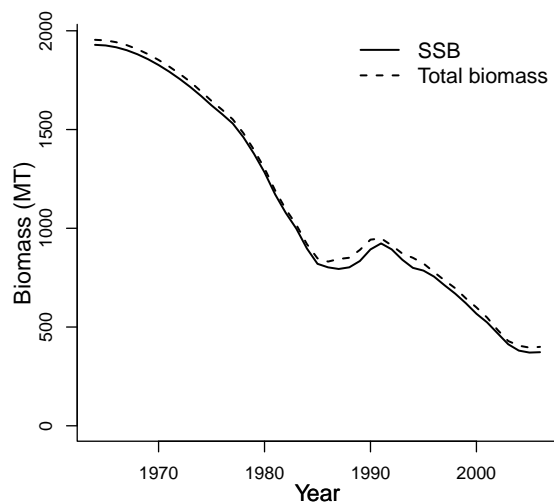
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	Breen, Paul
Assessment method	Custom length-based Bayesian Model
Publication year	2007
Timeseries span	1964-2006
Document	ref07-09-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-21
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



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

Assessment

ID:NZMFishSHELLFISHWG-PAU7-1964-2008-JENSEN

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/186>

Area ID: New Zealand-MFish-PAU7

General assessment details.

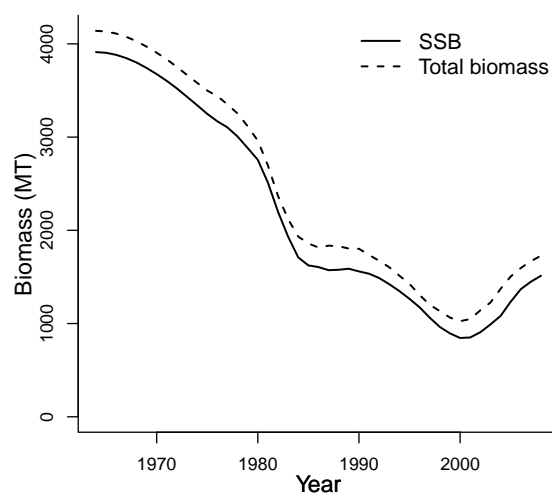
Detail	Value
Management body	MFish
Assessment group	Shellfish Working Group
Assessment authors	McKenzie, Andy
Assessment method	Custom length-based Bayesian Model
Publication year	
Timeseries span	1964-2008
Document	ref09-34-FAR.pdf (pdf in database)
Recorder	JENSEN
Date entered	2009-03-11
Date last loaded	2010-07-21
QA/QC complete	NO
Date approved	

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

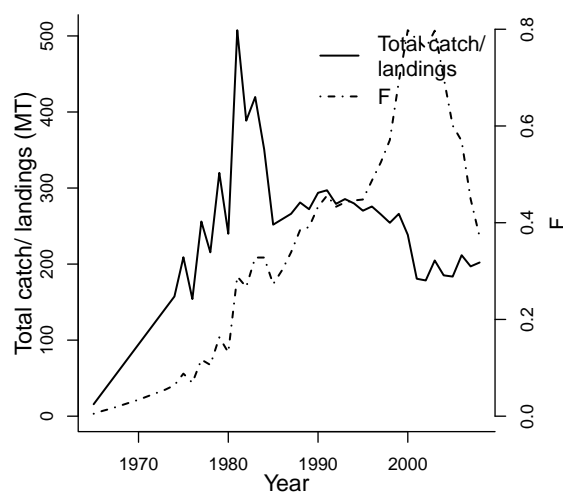
primary LME		secondary LME	tertiary LME
46 - New Zealand Shelf		na	na
Parameter	Value	Units	
REC-AGE			
SSB-AGE-yr			
SSB-SEX-sex			
TB-AGE-yr			
F-AGE-yr			
M			
A50-yr			
L50-cm			

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

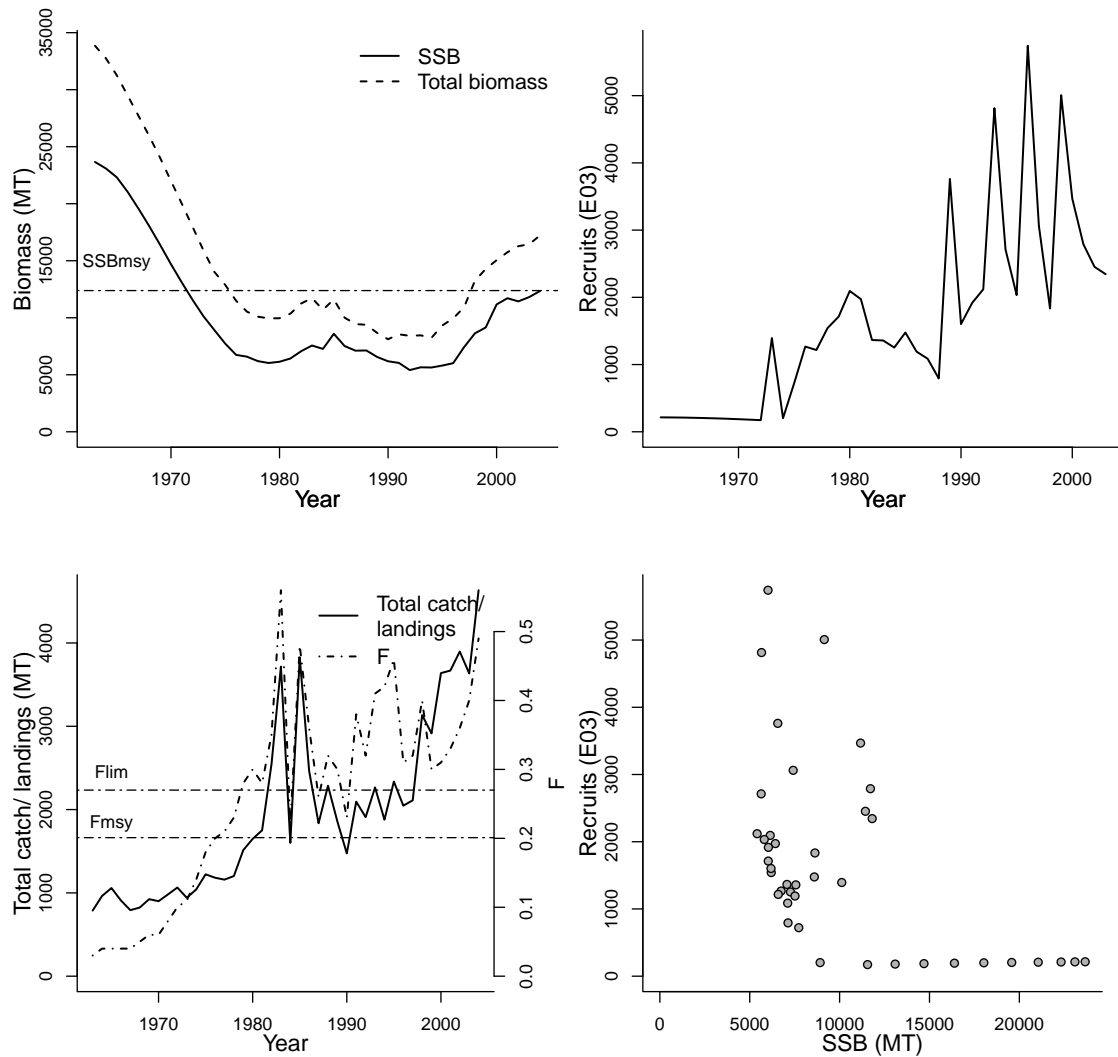
General assessment details.

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	
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
A50-yr	3.5	yr	F0.1-1/yr (F)	0.129	1/yr
M-1/T	AVAILABLE	1/T	Flim-1/yr (F)	0.27	1/yr
REC-AGE			Fmax-1/yr (F)	0.201	1/yr
SSB-AGE-yr			Fmsy-1/yr (F)	0.201	1/yr
SSB-SEX-sex			MSY-MT (TB)	2241.65	MT
TB-AGE-yr			SSBmsy-MT (SSB)	12383.06	MT
F-AGE-yr			F_{2004}/F_{lim}	1.815	
M			F_{2004}/F_{msy}	2.438	
L50-cm			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.

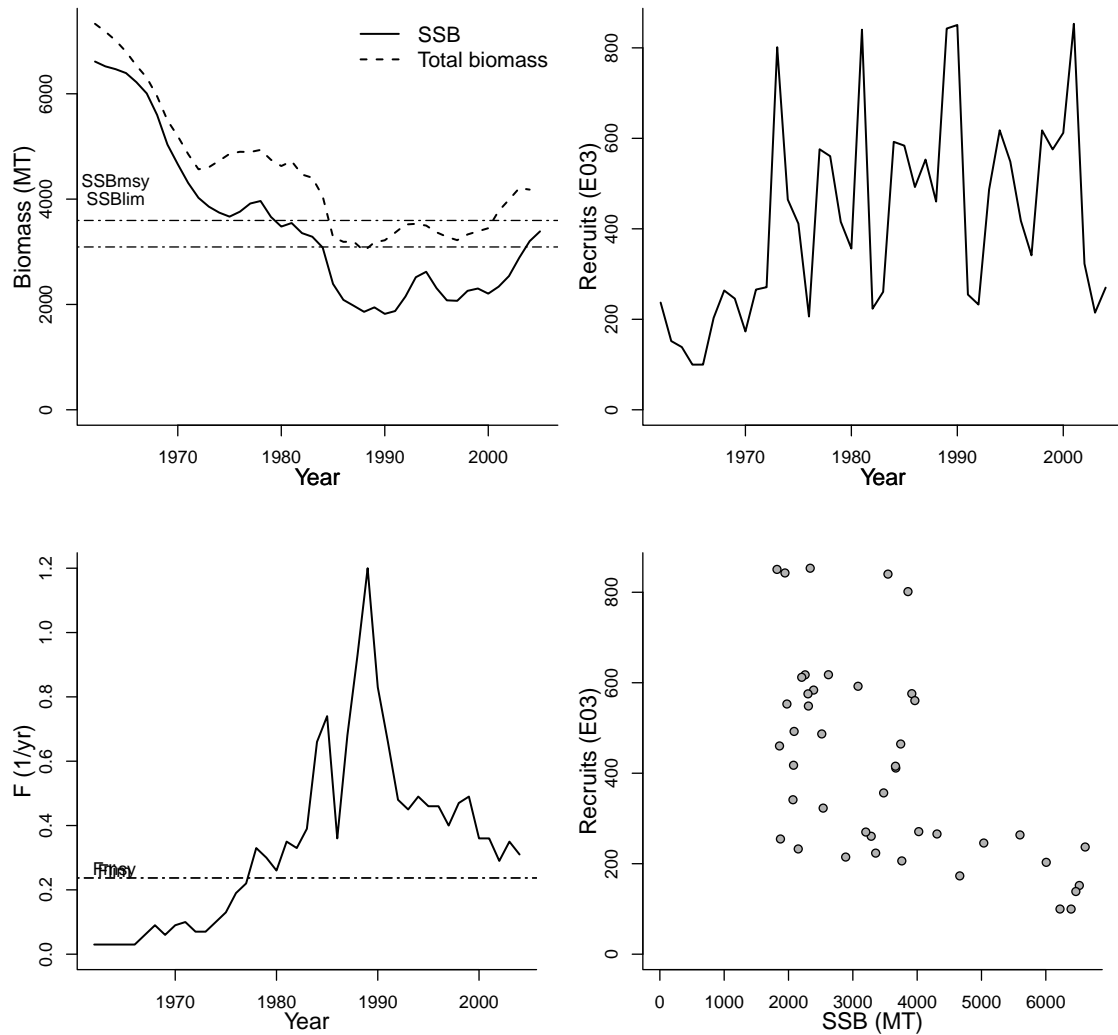
Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	NULL
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2006
Timeseries span	1962-2005
Document	JENSEN_GAGSATLC_2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	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	Reference points		
Parameter	Value	Units	Parameter	Value	Units
M-1/yr	0.14	1/yr	SSBlim-MT (SSB)	3091.456276	MT
REC-AGE			Flim-1/yr (F)	0.237	1/yr
SSB-AGE-yr			Fmsy-1/yr (F)	0.237	1/yr
SSB-SEX-sex			MSY-MT (TB)	562	MT
TB-AGE-yr			SSBmsy-MT (SSB)	3594.7166	MT
F-AGE-yr			SSB_{2005}/SSB_{lim}	1.096	
M			F_{2004}/F_{lim}	1.308	
A50-yr			F_{2004}/F_{msy}	1.308	
L50-cm			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

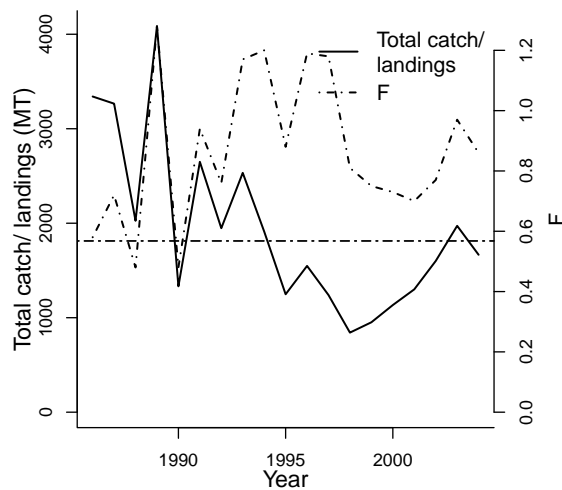
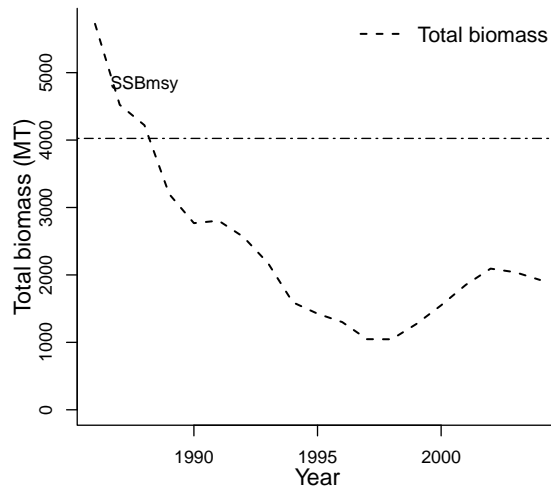
General assessment details.

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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			SSBmsy-MT (SSB)	4024.721816	MT
SSB-SEX-sex			F _{lim} -1/yr (F)	0.5679	1/yr
TB-AGE-yr			F _{msy} -1/T (F)	0.5679	1/T
F-AGE-yr			MSY-MT (TB)	2285.650088	MT
M			F_{2004}/F_{lim}	1.514	
A50-yr			F_{2004}/F_{msy}	1.514	
L50-cm					

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



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

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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/70>

Area ID: USA-NMFS-SATLC

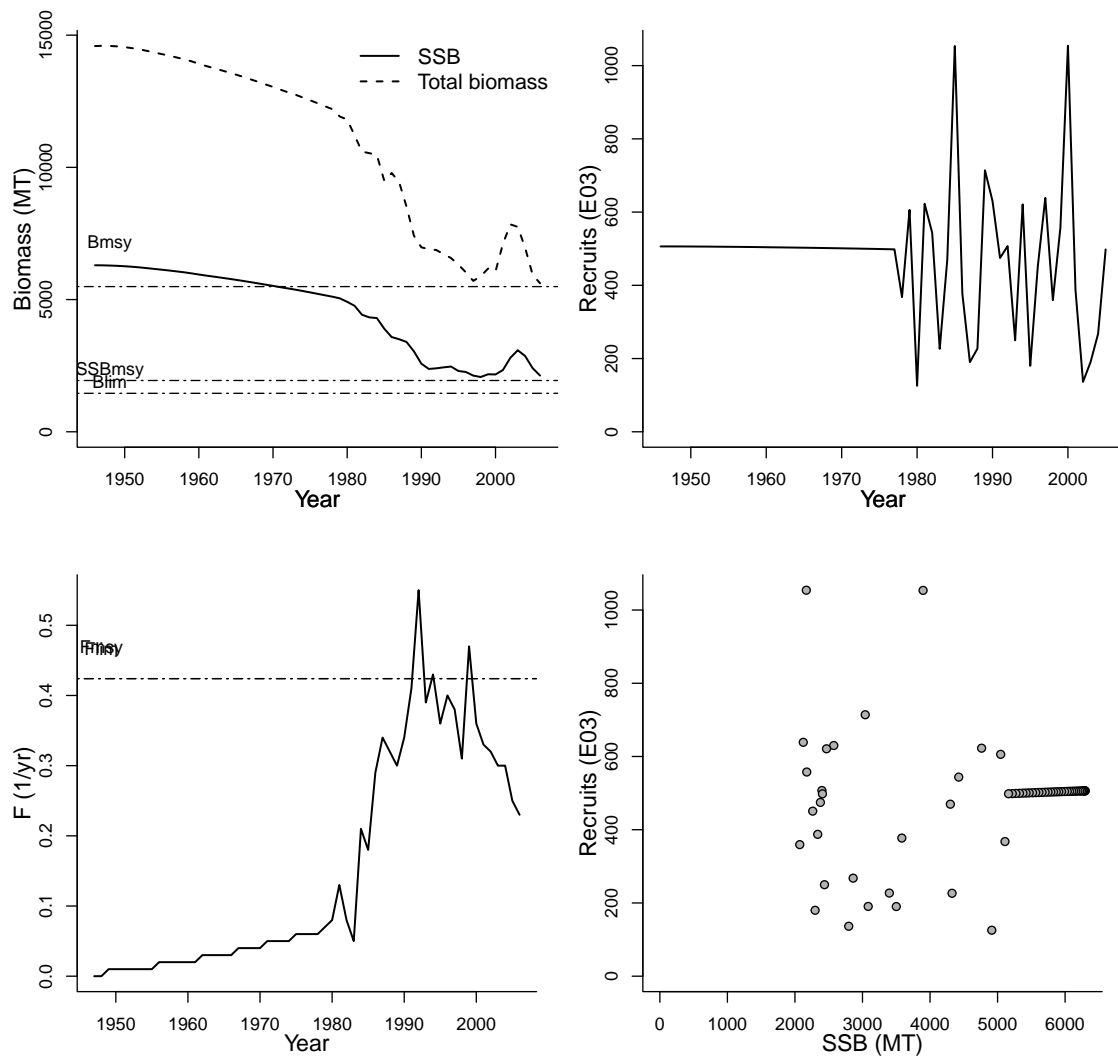
General assessment details.

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	
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
M-1/yr	0.25	1/yr	Blim-MT (TB)	1455	MT
REC-AGE			Bmsy-MT (TB)	5491	MT
SSB-AGE-yr			Flim-1/yr (F)	0.424	1/yr
SSB-SEX-sex			Fmsy-1/T (F)	0.424	1/T
TB-AGE-yr			MSY-MT (TB)	2005	MT
F-AGE-yr			SSBmsy-MT (SSB)	1940	MT
M			F_{2006}/F_{lim}	0.542	
A50-yr			TB_{2006}/B_{msy}	1.023	
L50-cm			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

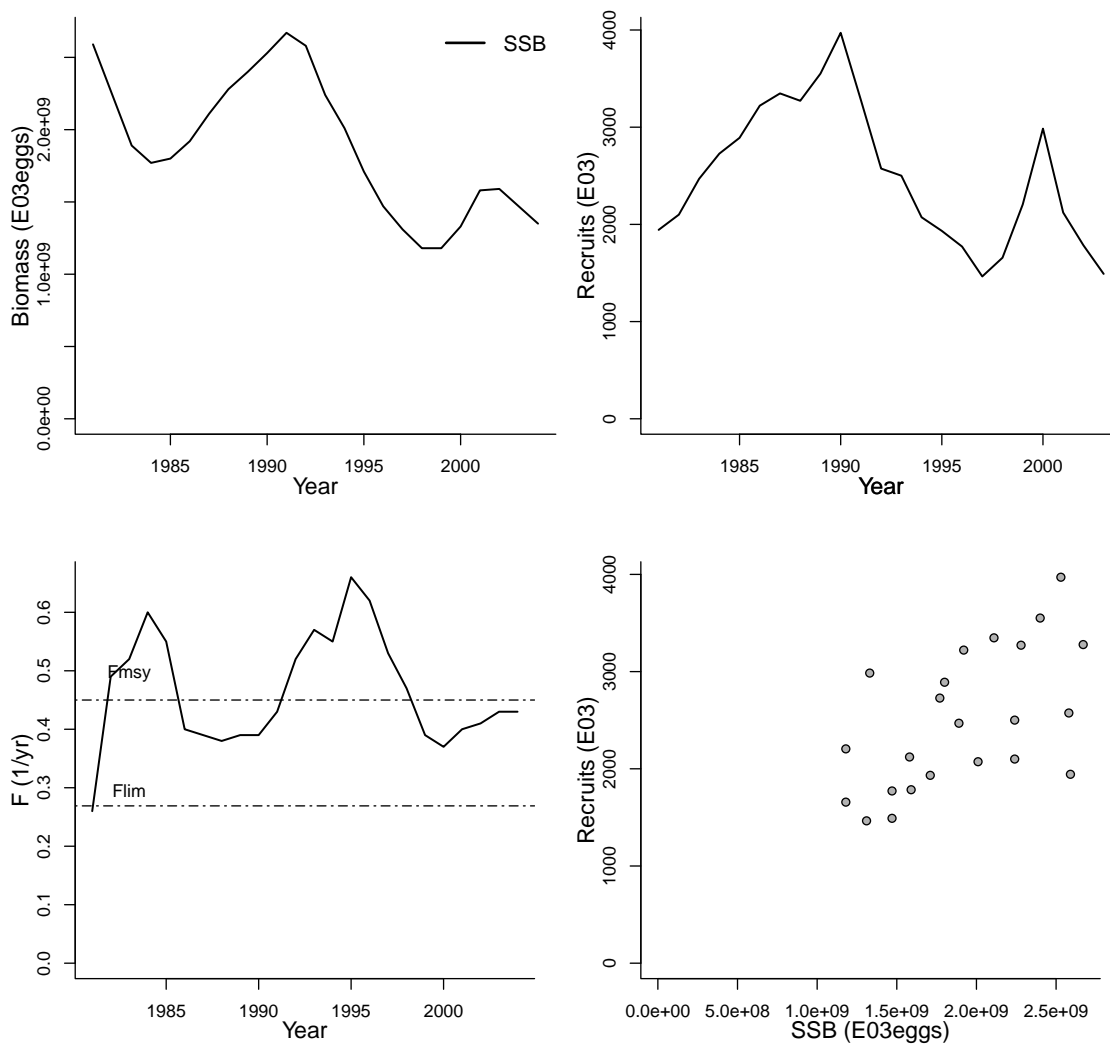
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Anonymous
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	2010-07-21
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	Reference points		
M-1/yr	0.27	1/yr	Parameter	Value	Units
REC-AGE			Flim-1/yr (F)	0.269	1/yr
SSB-AGE-yr			Fmsy-1/T (F)	0.45	1/T
SSB-SEX-sex			MSY-MT (TB)	743	MT
TB-AGE-yr			SSBmsy-E03eggs	1210000000	E03eggs
F-AGE-yr			F_{2004}/F_{lim}	1.599	
M			F_{2004}/F_{msy}	0.956	
A50-yr			SSB_{2004}/SSB_{msy}	1.116	
L50-cm					

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

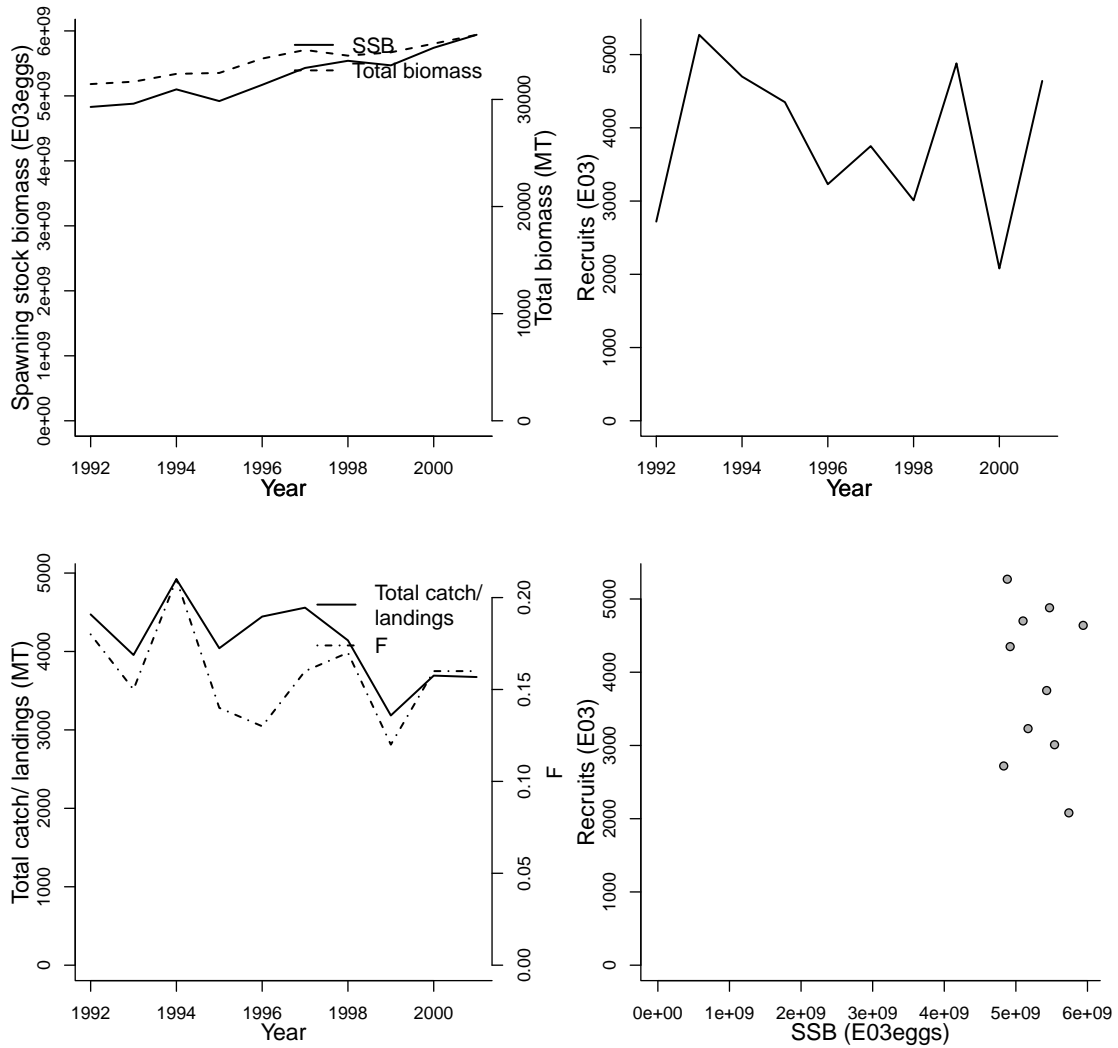
General assessment details.

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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			F _{msy} -1/T (F)	0.269	1/T
SSB-SEX-sex			MSY-MT (TB)	5178.659864	MT
TB-AGE-yr			SSB _{msy} -E03eggs	6385000000	E03eggs
F-AGE-yr			F_{2001}/F_{msy}	0.595	
M			SSB_{2001}/SSB_{msy}	0.930	
A50-yr					
L50-cm					

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

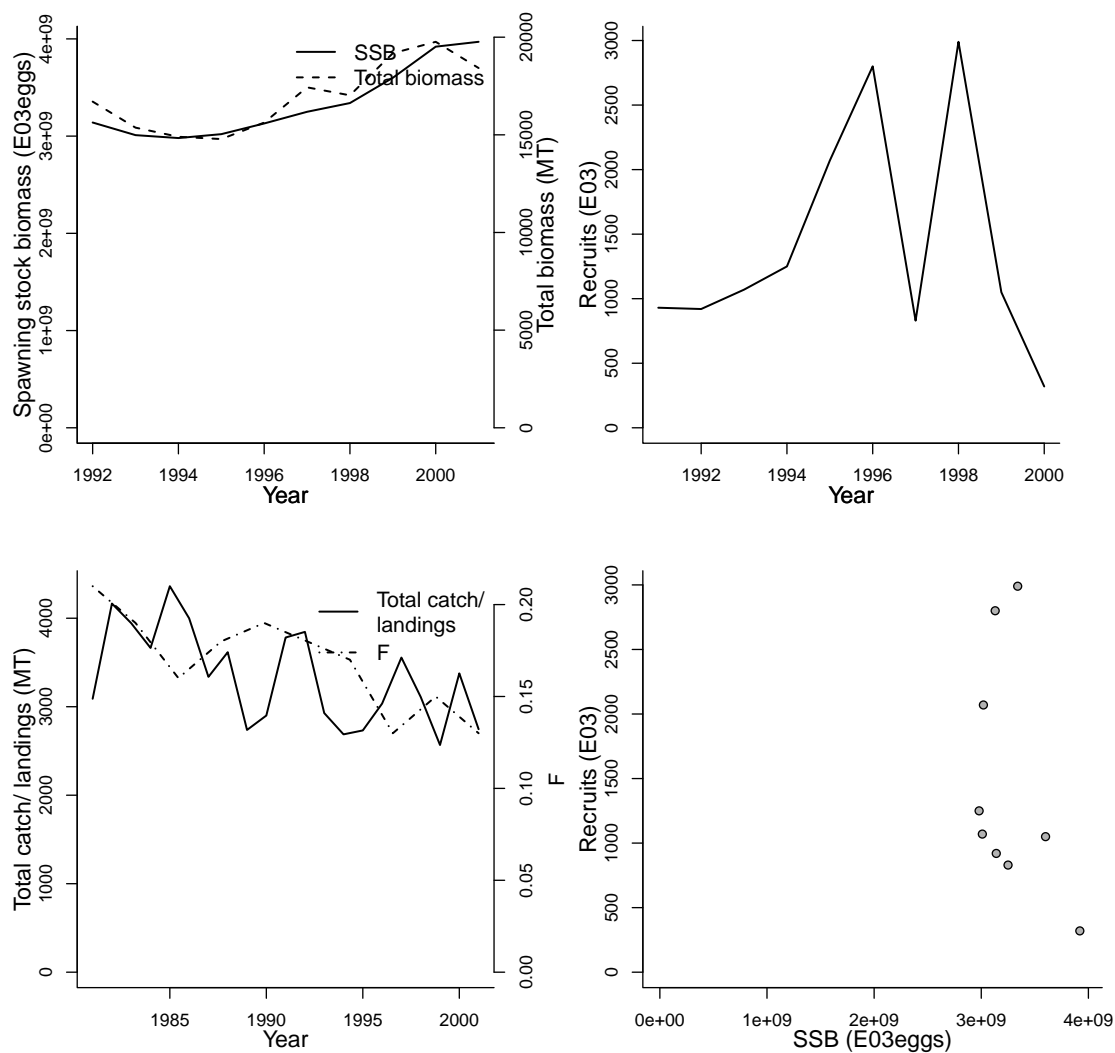
General assessment details.

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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Fmsy-1/T (F)	0.29	1/T
SSB-SEX-sex			MSY-MT (TB)	2576.40	MT
TB-AGE-yr			SSBmsy-E03eggs	2930000000	E03eggs
F-AGE-yr			F_{2001}/F_{msy}	0.448	
M			SSB_{2001}/SSB_{msy}	1.355	
A50-yr					
L50-cm					

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

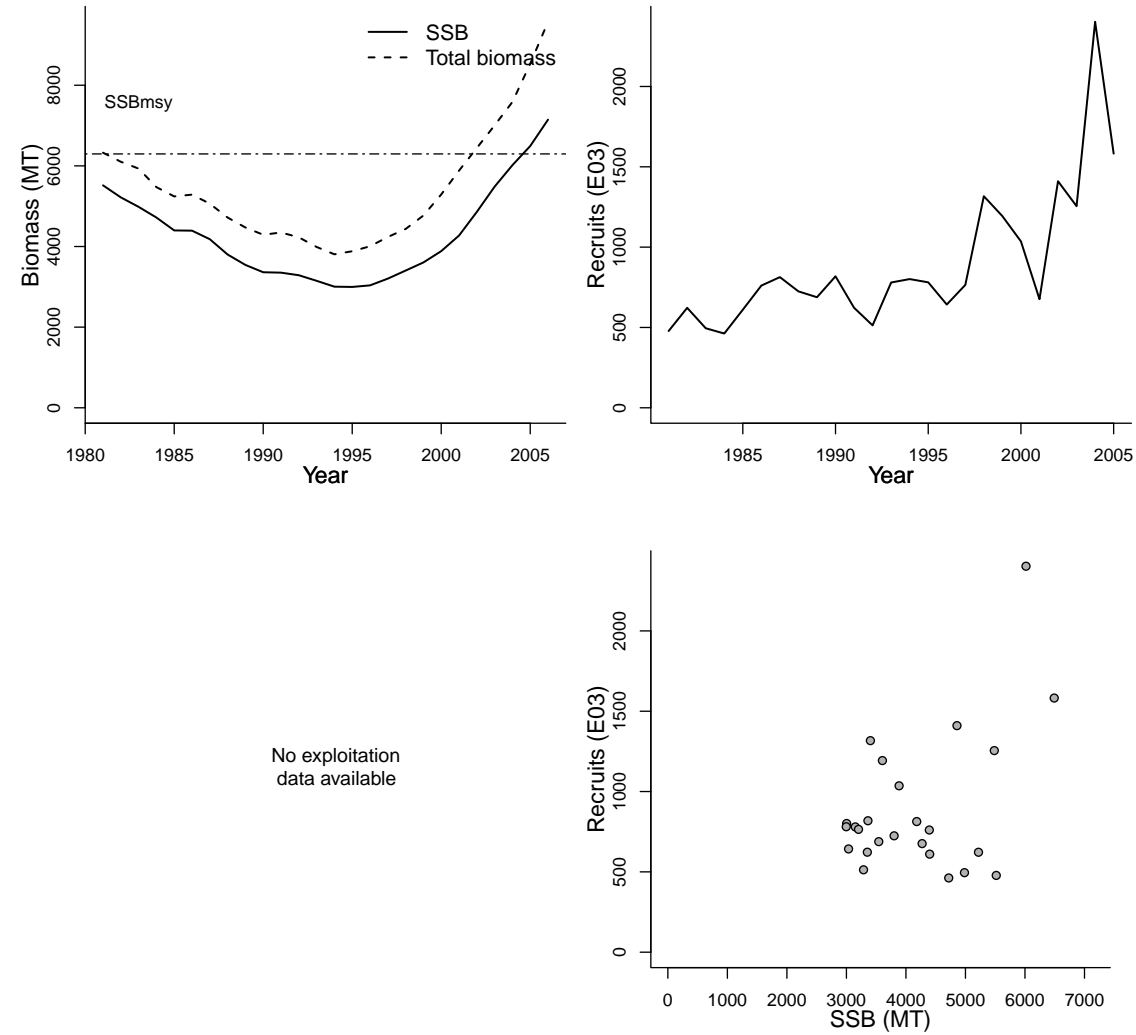
General assessment details.

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	Reference points	
A50-yr	3.7	yr	Parameter	Value Units
M-1/yr	0.11	1/yr	Fmsy-1/T (F)	0.340 1/T
REC-AGE			MSY-MT (TB)	688 MT
SSB-AGE-yr			SSBmsy-MT (SSB)	6296 MT
SSB-SEX-sex			SSB_{2006}/SSB_{msy}	1.135
TB-AGE-yr				
F-AGE-yr				
M				
L50-cm				

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



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

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

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/68>

Area ID: USA-NMFS-GM

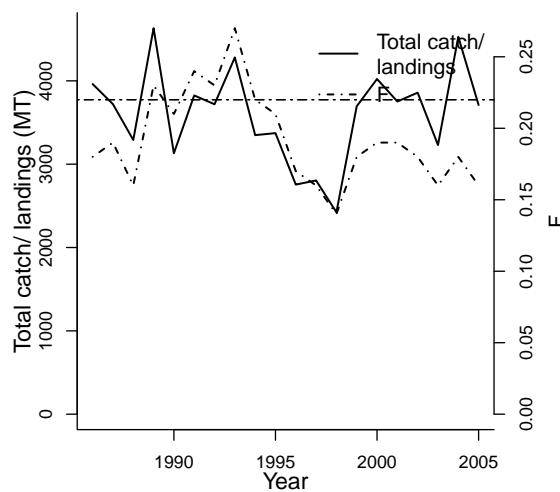
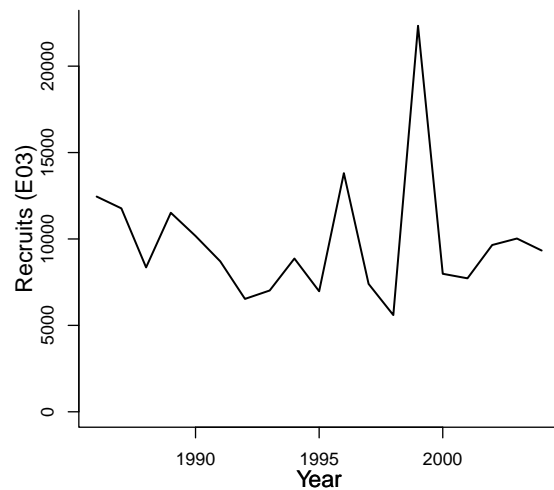
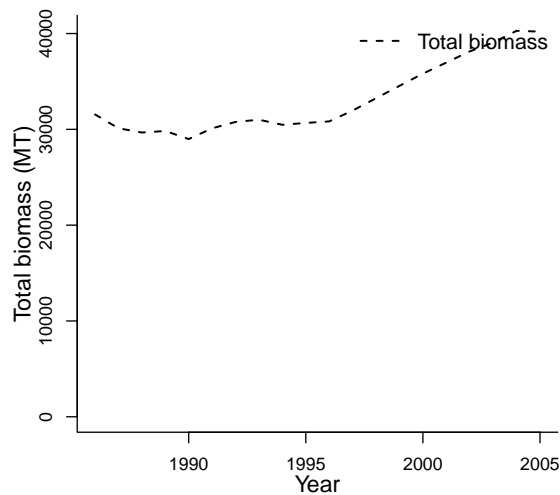
General assessment details.

Detail	Value
Management body	NMFS
Assessment group	Southeast Fisheries Science Center
Assessment authors	Anonymous
Assessment method	Age Structured Assessment Program
Publication year	2006
Timeseries span	1986-2005
Document	JENSEN-RGROUFGM-2006.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-22
Date last loaded	2010-07-28
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		
Parameter	Value	Units
SSBlim-FemaleGonadMT	509	FemaleGonadMT
SSBmsy-FemaleGonadMT	591	FemaleGonadMT
Flim-1/yr (F)	0.22	1/yr
Fmsy-1/yr (F)	0.22	1/yr
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

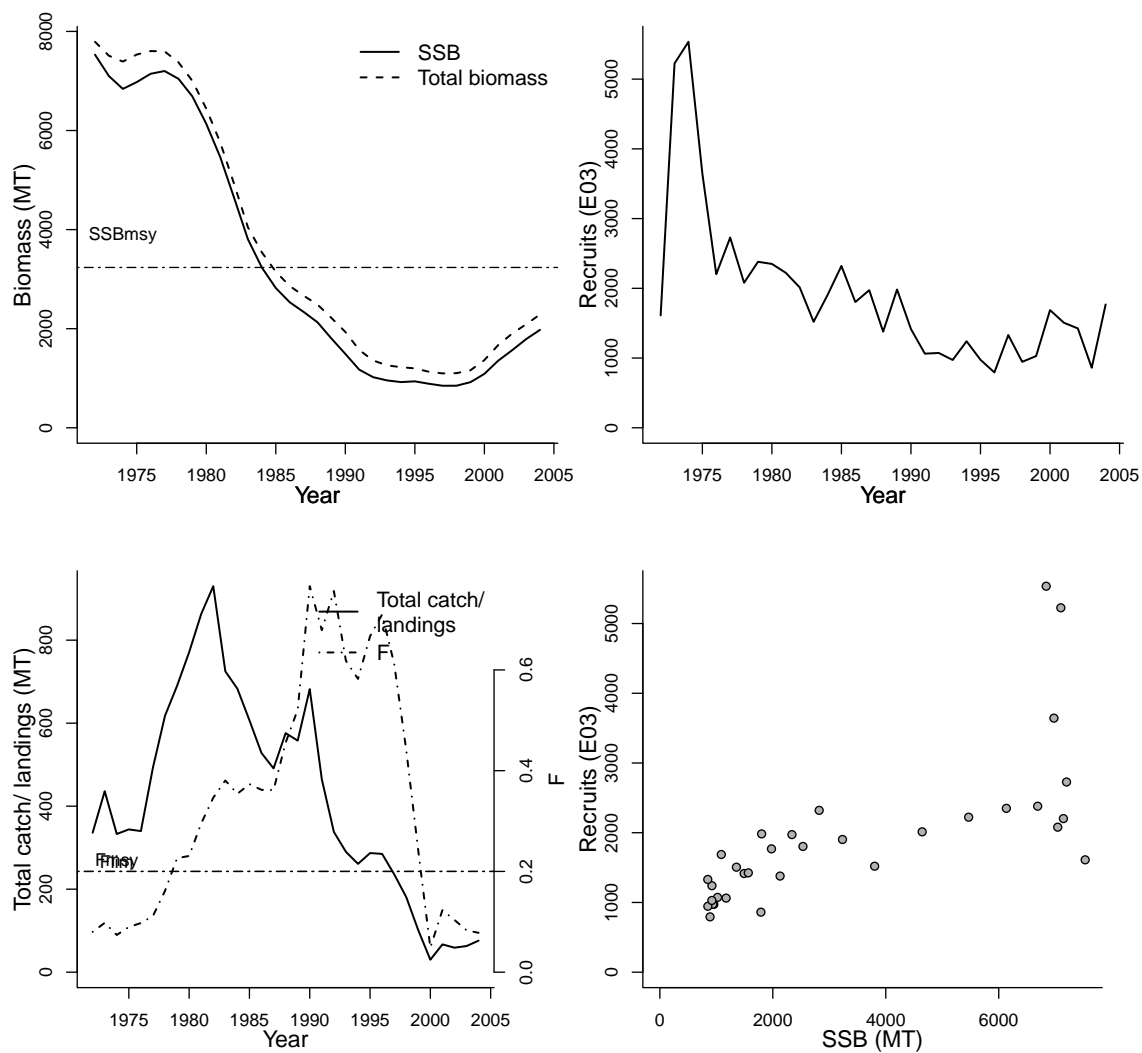
General assessment details.

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	

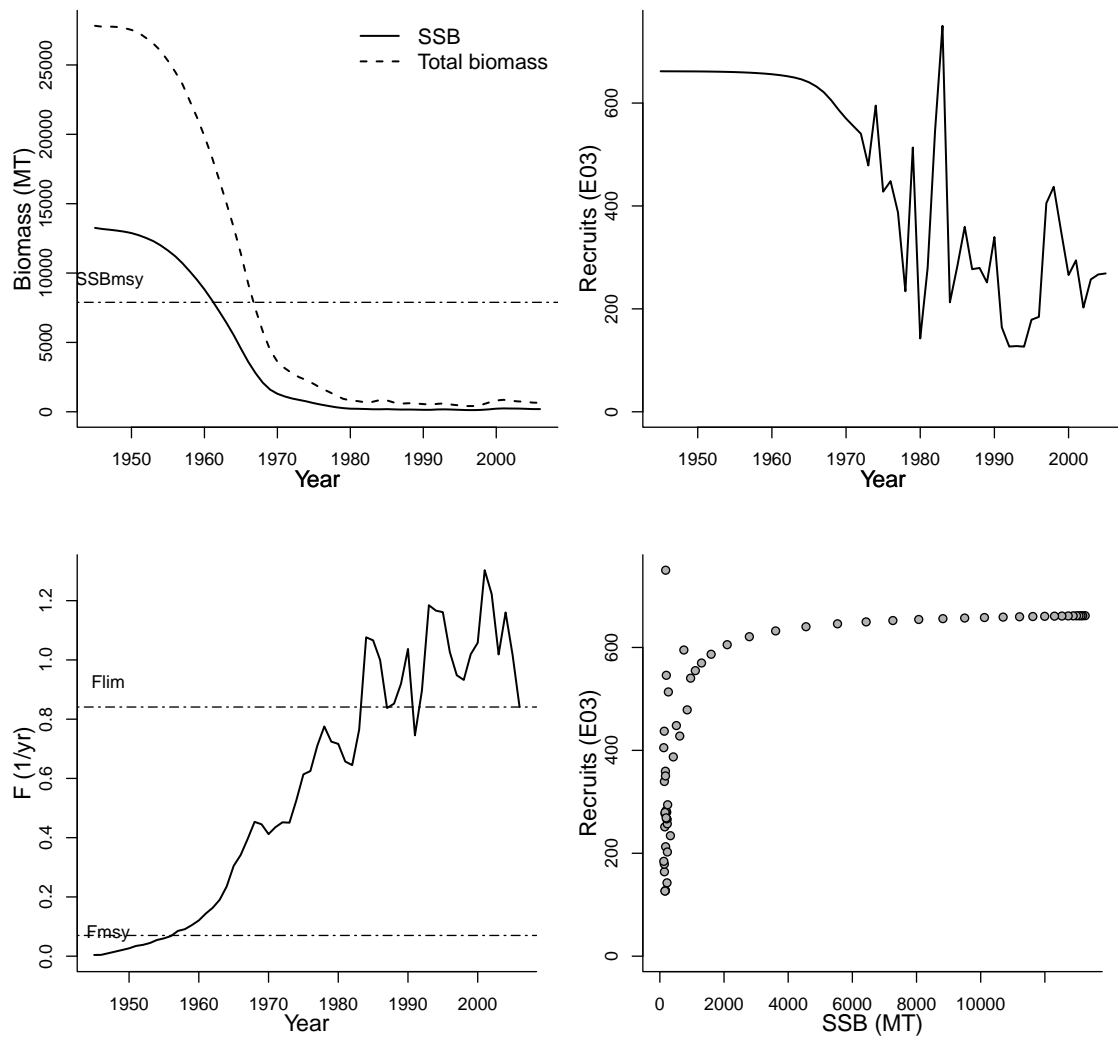
Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

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

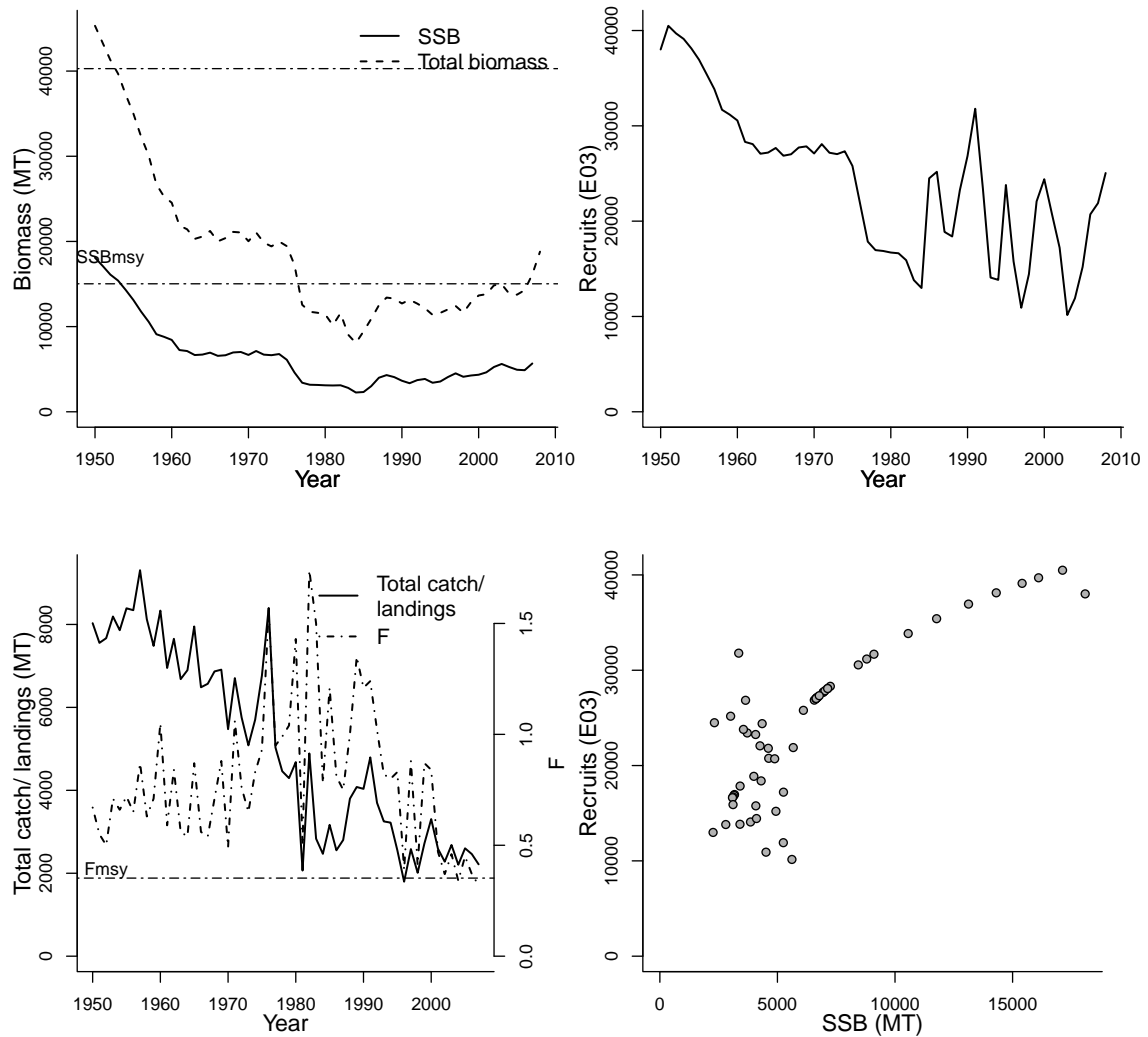
General assessment details.

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	Reference points	
			Parameter	Value Units
REC-AGE			Bmsy-MT (TB)	40288 MT
SSB-AGE-yr			Fmsy-1/yr (F)	0.352 1/yr
SSB-SEX-sex			MSY-MT (TB)	5941.60 MT
TB-AGE-yr			SSBmsy-MT (SSB)	15027 MT
F-AGE-yr			TB_{2008}/B_{msy}	0.467
M			F_{2007}/F_{msy}	0.909
A50-yr			SSB_{2007}/SSB_{msy}	0.377
L50-cm				

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

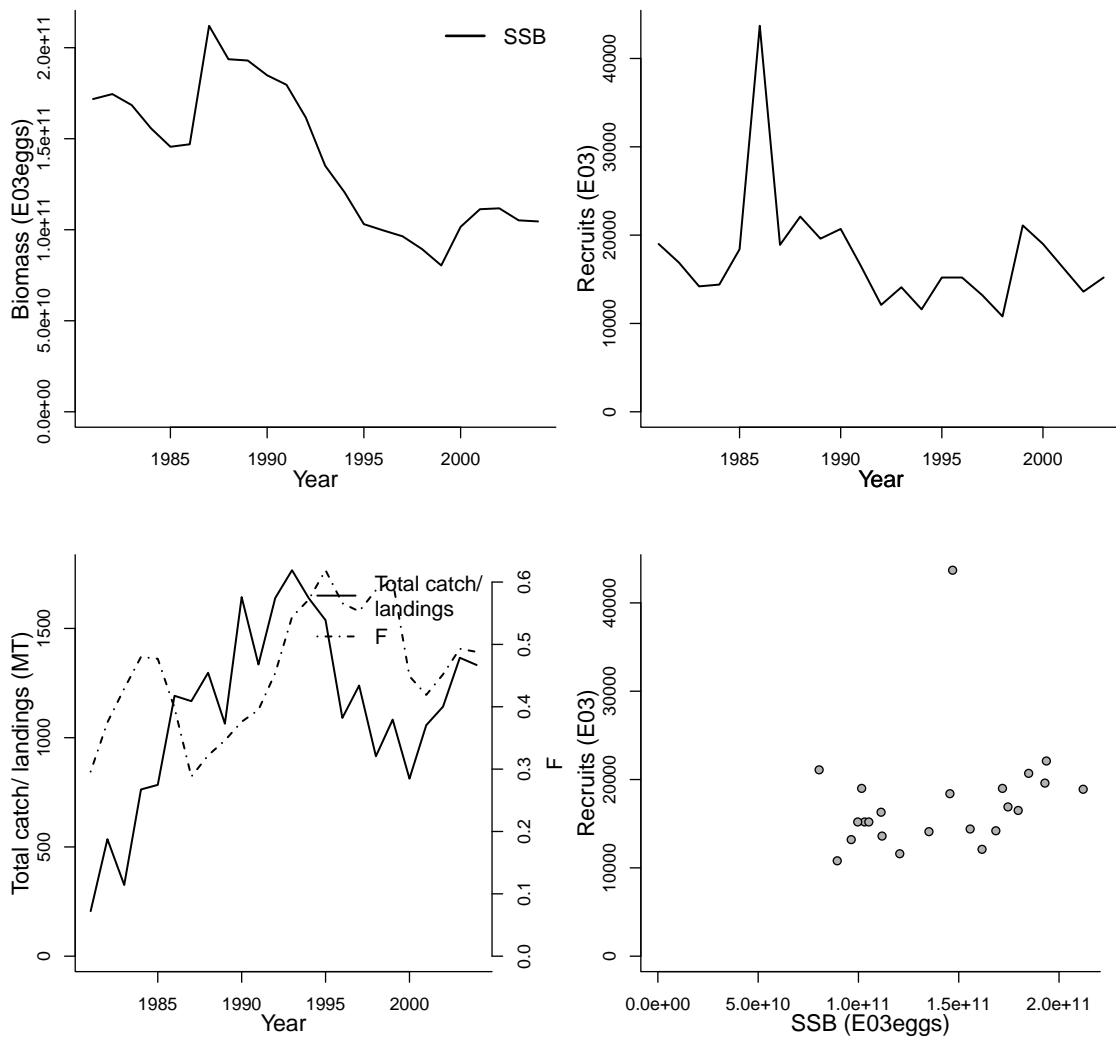
General assessment details.

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

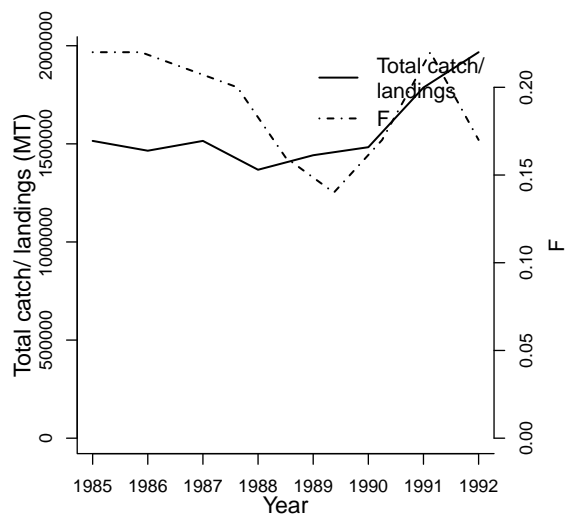
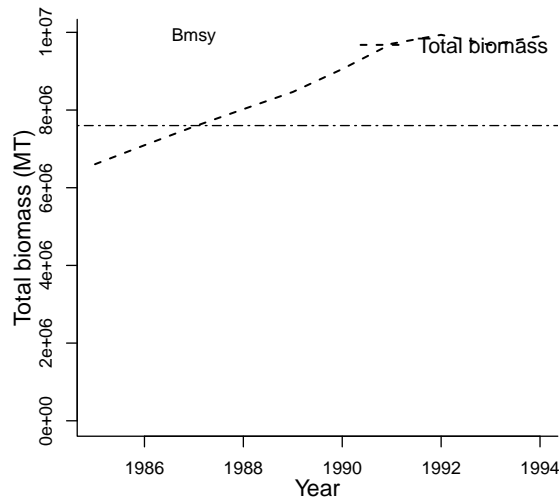
General assessment details.

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	Reference points		
REC-AGE			Parameter	Value	Units
SSB-AGE-yr			Fmsy-1/yr (F)	0.27	1/yr
SSB-SEX-sex			Bmsy-MT (TB)	7600000	MT
TB-AGE-yr			MSY-MT (TB)	2067000	MT
F-AGE-yr			TB_{1994}/B_{msy}	1.303	
M			F_{1993}/F_{msy}	0.630	
A50-yr					
L50-cm					

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



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

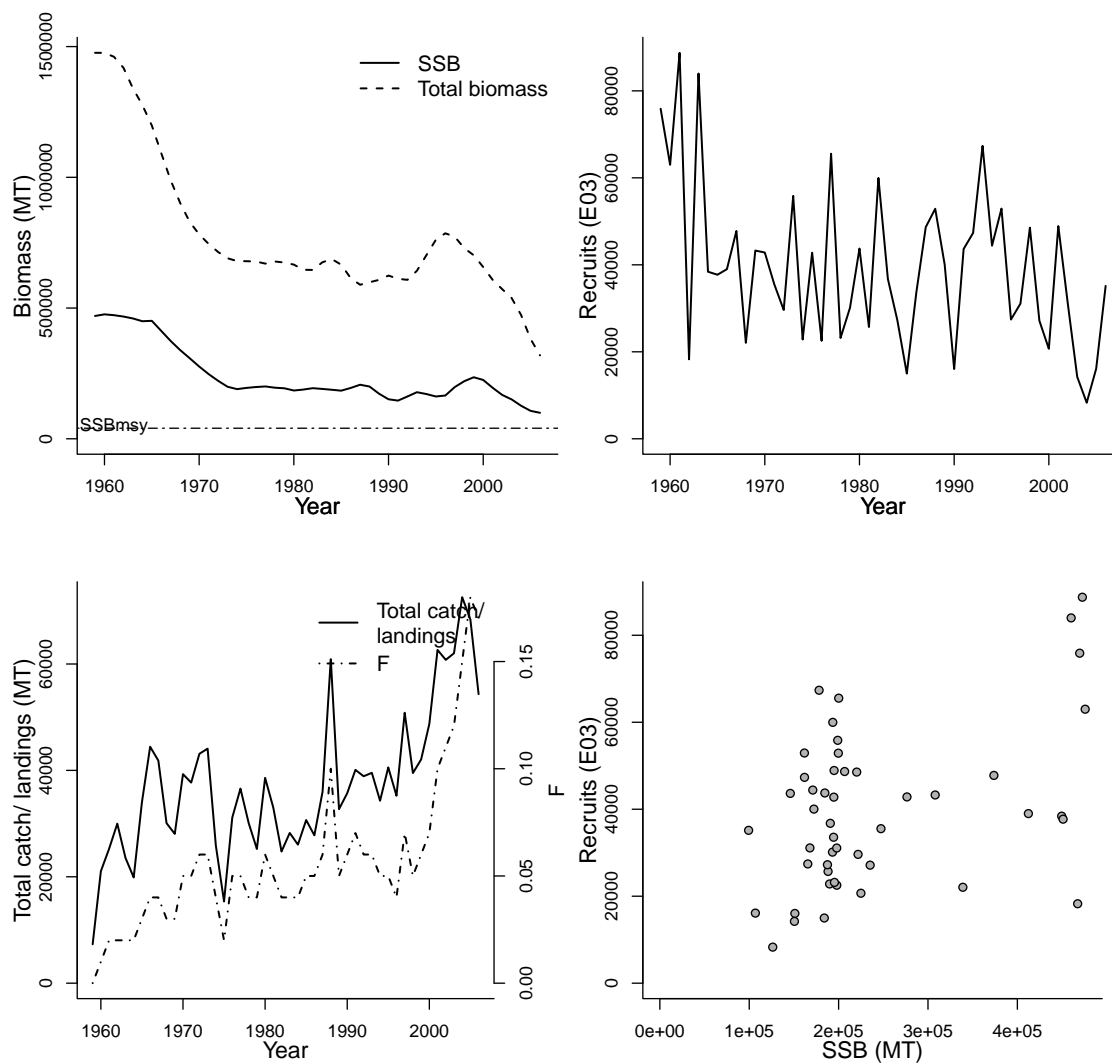
General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Hoyle, Simon
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	2010-07-16
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	Reference points		
A50-yr	5.5	yr	Parameter	Value	Units
M-1/T	AVAILABLE	1/T	Umsy-ratio (U)	1.88E-01	ratio
REC-AGE			MSY-MT (TB)	63,830	MT
SSB-AGE-yr			SSBmsy-MT (SSB)	4.04E+04	MT
TB-AGE-yr			B0-MT	698000	MT
F-AGE-yr			SSB_{2006}/SSB_{msy}	2.457	
M					
L50-cm					

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

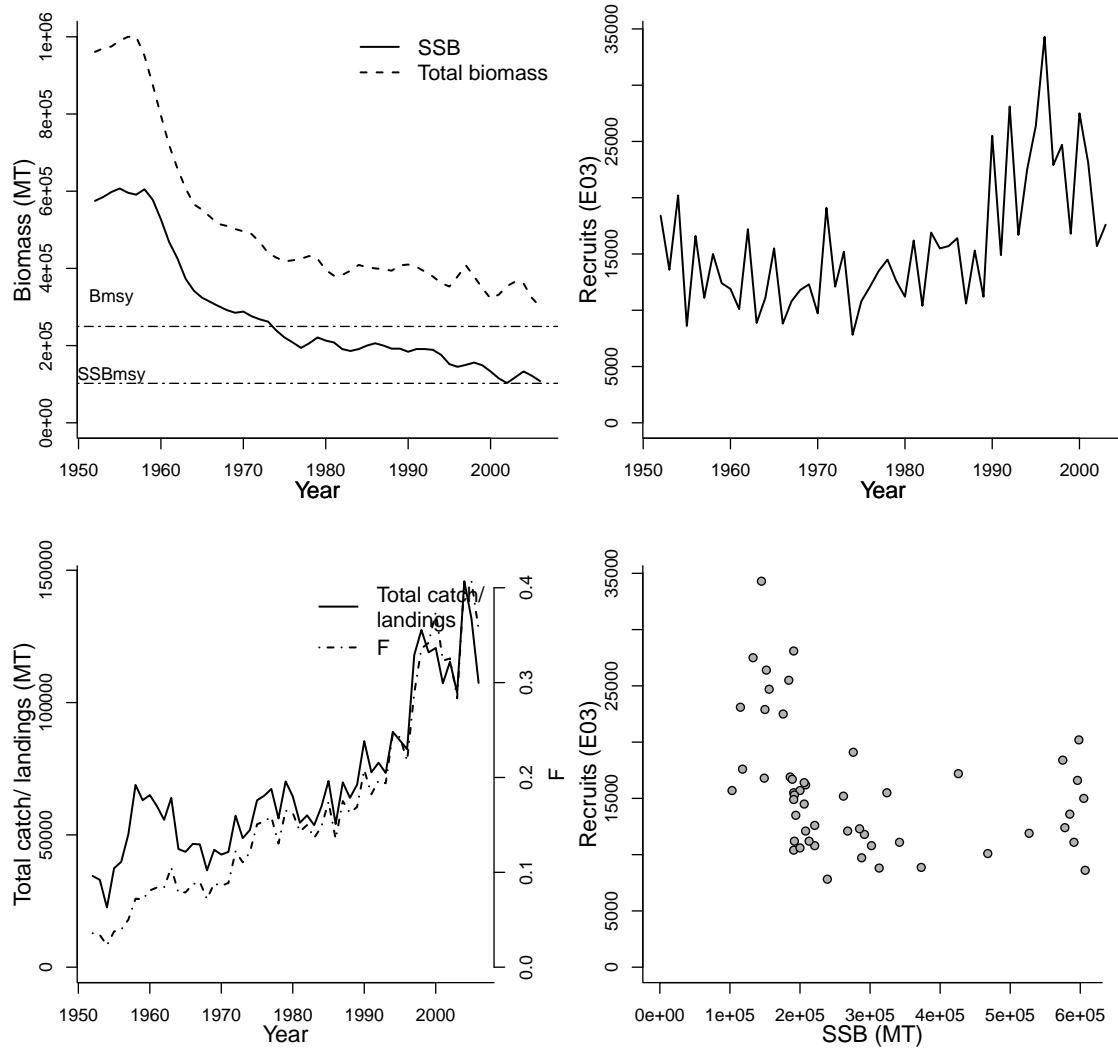
General assessment details.

Detail	Value
Management body	WCPFC
Assessment group	Secretariat of the Pacific Community
Assessment authors	Langley, Adam
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	2010-07-16
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	Reference points
A50-yr	3.6	yr	Parameter
M-1/T	AVAILABLE	1/T	Value
REC-AGE			Units
SSB-AGE-yr			Bmsy-MT (TB)
TB-AGE-yr			249600
F-AGE-yr			MT
M			Umsy-ratio (U)
L50-cm			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

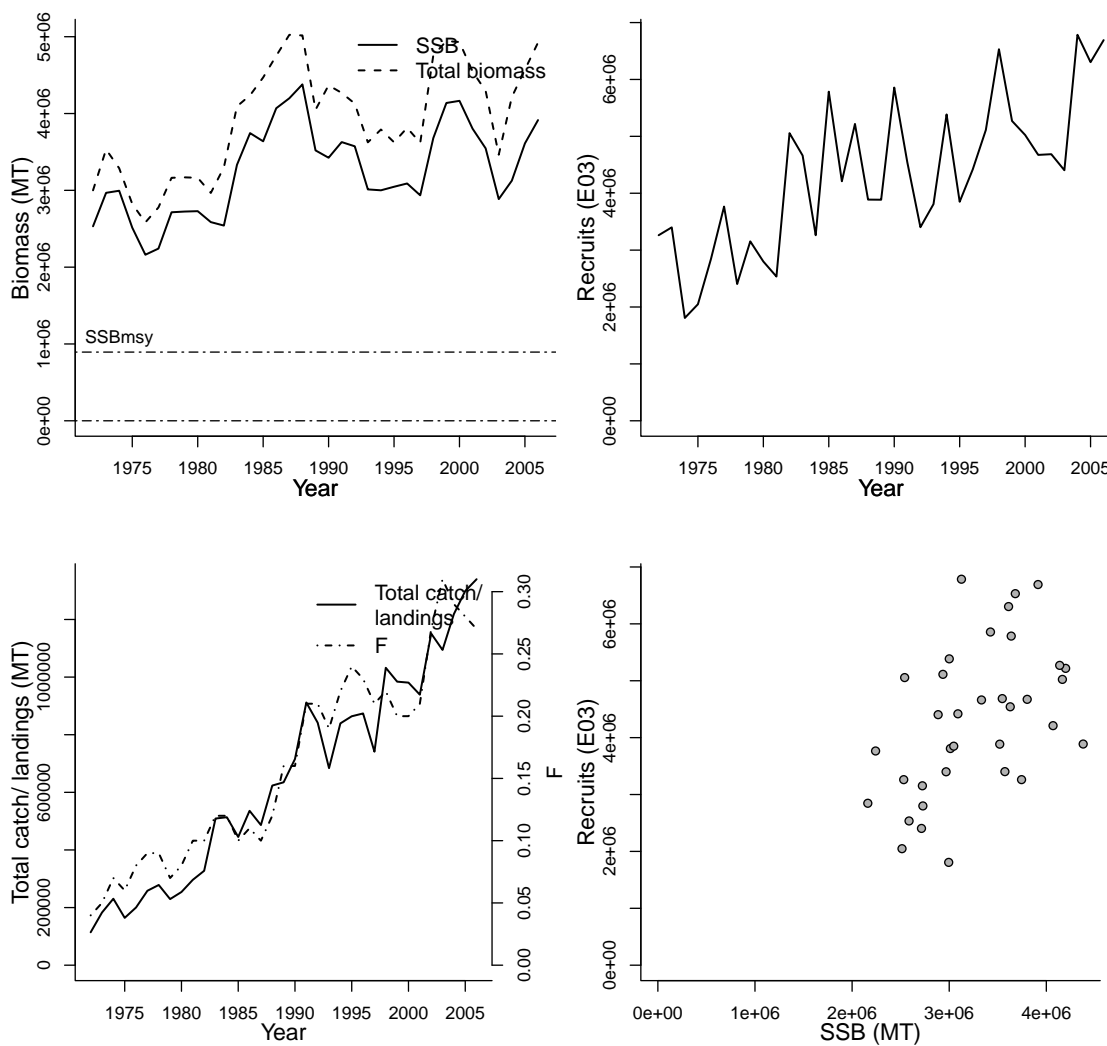
General assessment details.

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	Reference points		
			Parameter	Value	Units
A50-yr	0.3125	yr	Bmsy-MT (TB)	1,438,000	MT
M-1/T	AVAILABLE	1/T	Umsy-ratio (U)	0.8900	ratio
REC-AGE			MSY-MT (TB)	1,279,600	MT
SSB-AGE-yr			SSBmsy-MT (SSB)	894200	MT
SSB-SEX-sex			TB_{2006}/B_{msy}	4923525.000	
TB-AGE-yr			SSB_{2006}/SSB_{msy}	4.378	
F-AGE-yr					
M					
L50-cm					

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

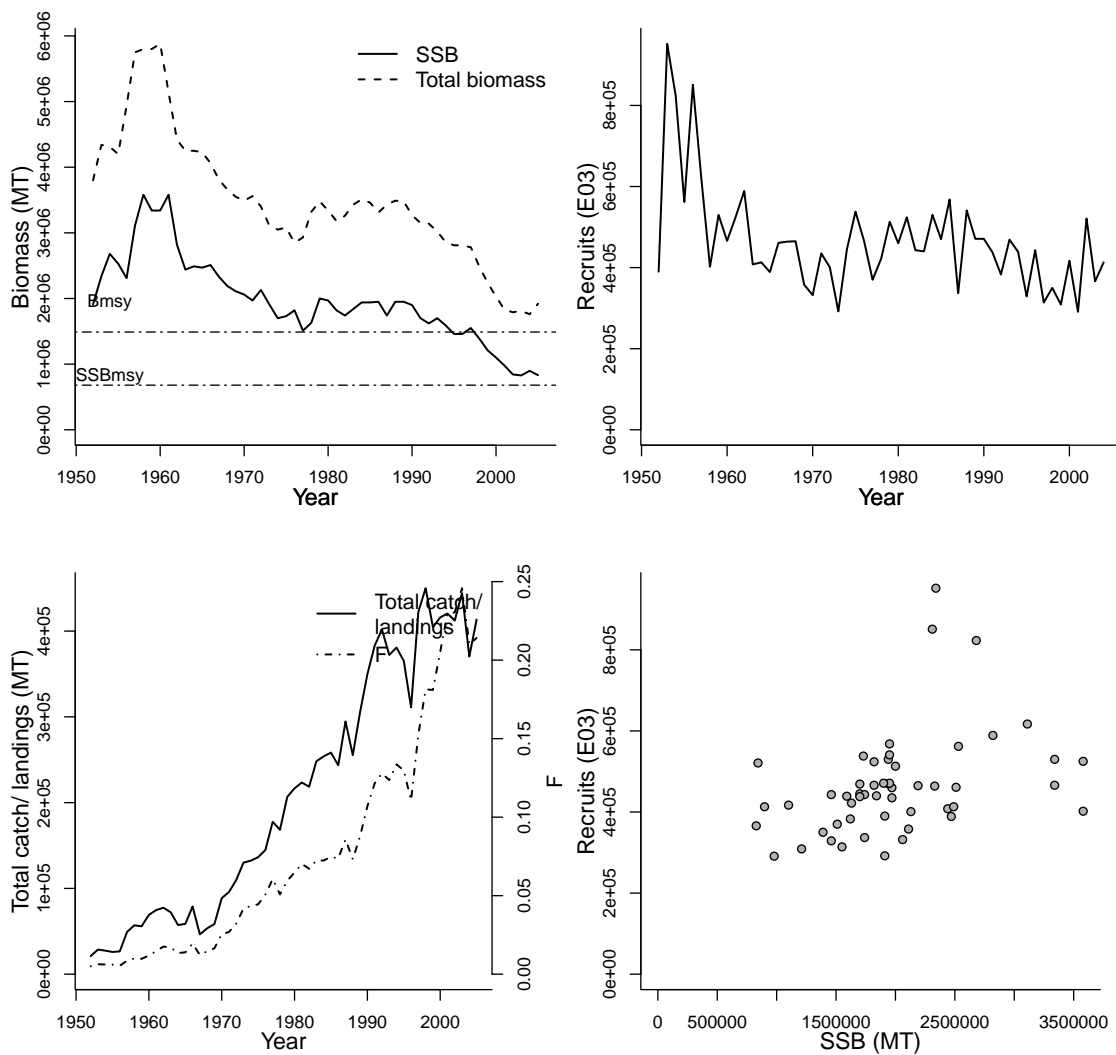
General assessment details.

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	Reference points		
A50-yr	2	yr	Parameter	Value	Units
M-1/T	AVAILABLE	1/T	Bmsy-MT (TB)	1489000	MT
REC-AGE			Umsy-ratio (U)	0.2686	ratio
SSB-AGE-yr			MSY-MT (TB)	400,000	MT
SSB-SEX-sex			SSBmsy-MT (SSB)	679800	MT
TB-AGE-yr			TB_{2005}/B_{msy}	1.289	
F-AGE-yr			SSB_{2005}/SSB_{msy}	1.224	
M					
L50-cm					

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.

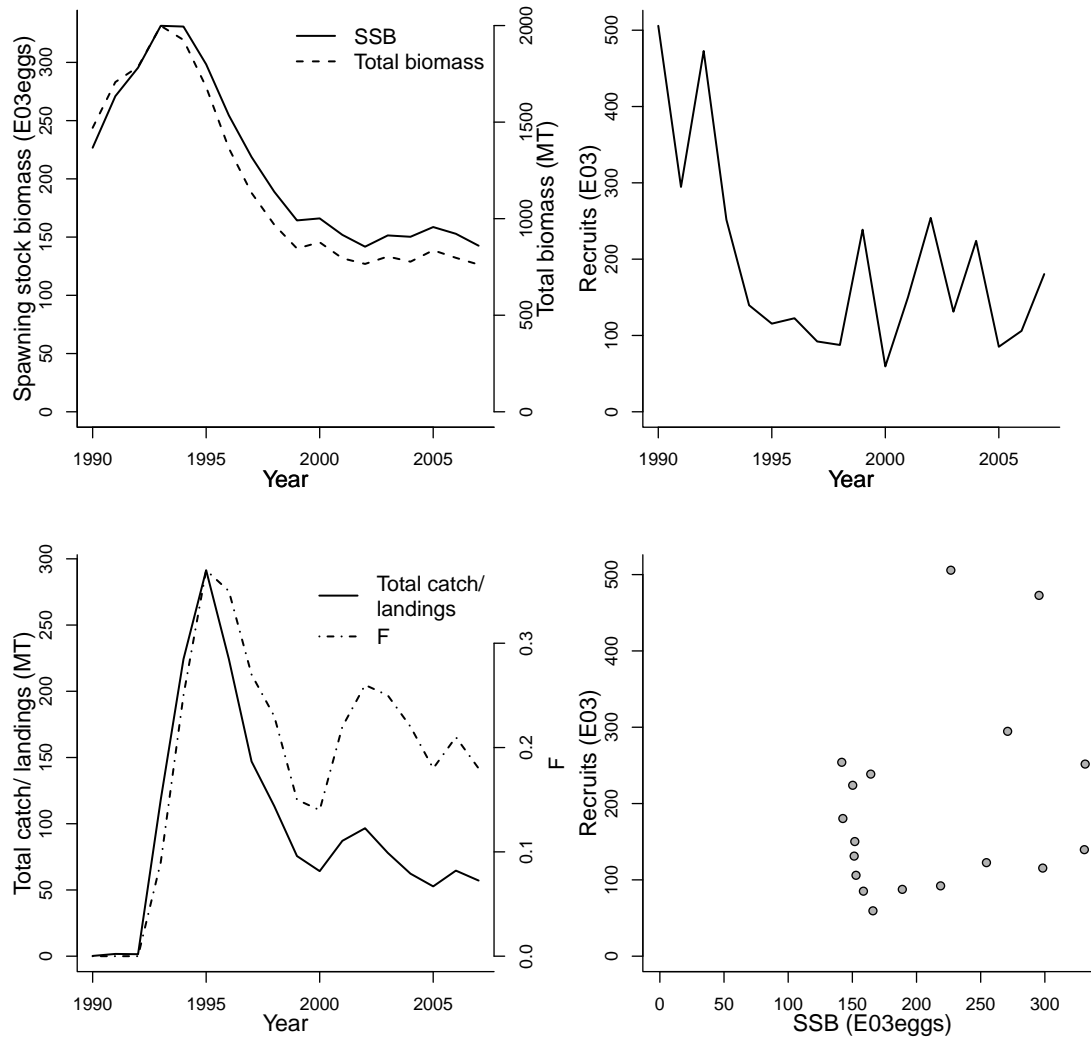
Detail	Value
Management body	AFMA
Assessment group	Tasmanian Aquaculture and Fisheries Institute
Assessment authors	Phillippe Ziegler
Assessment method	Size-based model
Publication year	2008
Timeseries span	1990-2007
Document	JENSEN_TASGIANTCRAB.2008.pdf (pdf in database)
Recorder	JENSEN
Date entered	2008-11-29
Date last loaded	2010-06-14
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.

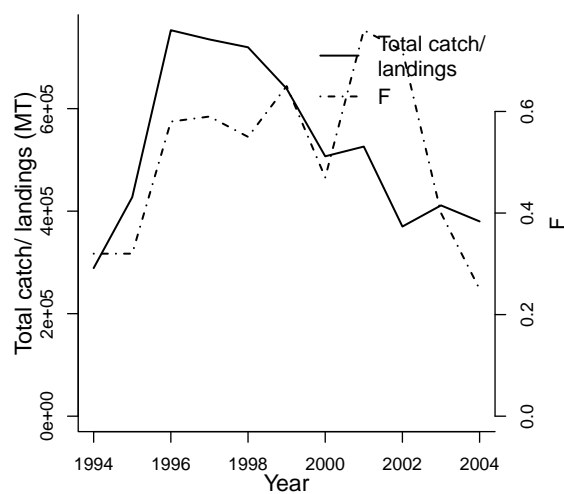
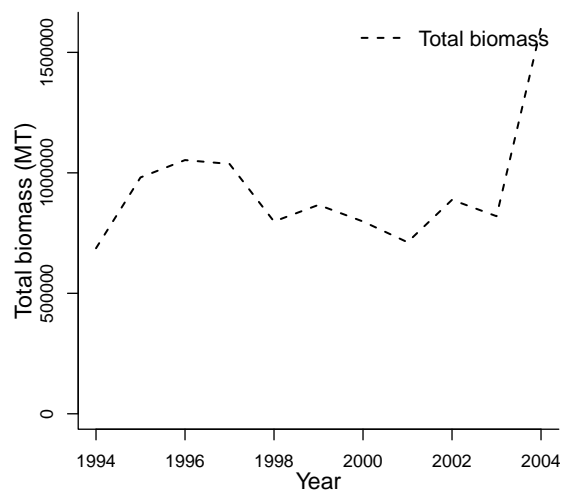
Detail	Value
Management body	RFFA
Assessment group	Russian Federal Research Institute of Fisheries and Oceanography
Assessment authors	Vasilyev, D.A.
Assessment method	Instantaneous Separable VPA
Publication year	2004
Timeseries span	1994-2004
Document	WPOLLWBS-2004-JENSEN.pdf (pdf in database)
Recorder	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



MAP KEY:

- | LME Number | LME Name |
|------------|---------------------------|
| 1 | East Baltic Sea |
| 2 | North Sea |
| 3 | Gulf of California |
| 4 | California Current |
| 5 | Chukchi Sea |
| 6 | South Sea |
| 7 | Indian Ocean |
| 8 | South East Labrador Shelf |
| 9 | East Greenland Shelf |
| 10 | Central Indian Ocean |
| 11 | Indian Pacific Ocean |
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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