

Dear Ana,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 8 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 0

Assessment ID:CCSBT-SC-SBT-1931-2009-Parma

Issue URL:

Area ID:

General assessment details.

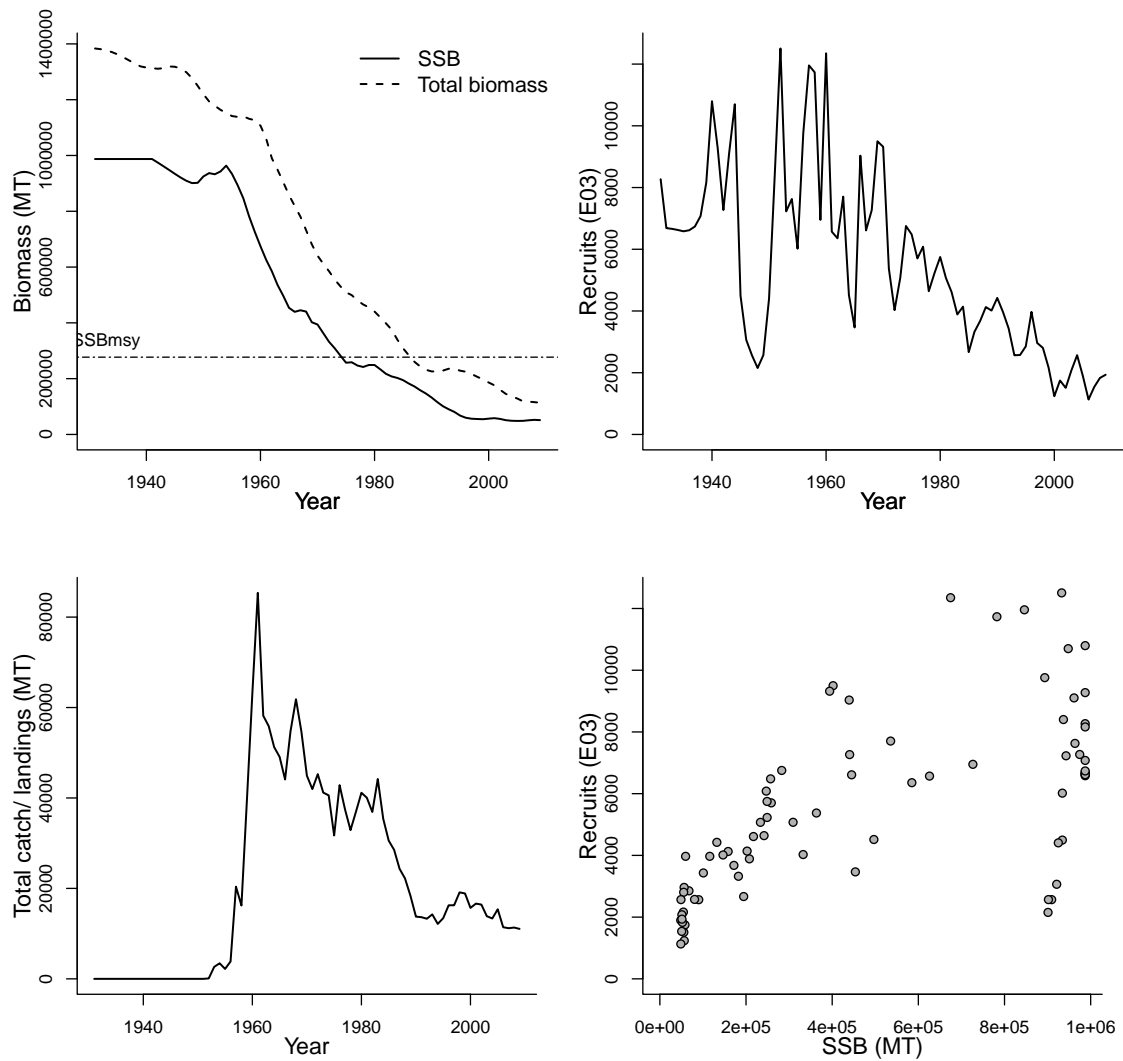
Detail	Value
Management body	CCSBT
Assessment group	CCSBT Scientific Committee
Assessment authors	Kurota, H.
Assessment method	Integrated Analysis
Publication year	2010
Timeseries span	1931-2009
Document	Kurota-etal-2010.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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			-99 - Pacific High Seas			-98 - Atlantic High Seas		
Parameter	Value	Units						
SSB-AGE-yr	10	yr						
SSB-SEX-sex	0	sex						
REC-AGE-yr	0	yr						
TB-AGE-yr	0	yr						
F-AGE-yr								
M								
A50-yr								
L50-cm								

Reference points		
Parameter	Value	Units
SSB _{msy} -MT (SSB)	277047.081081081	MT
SSB ₀ -MT (SSB)	899187.894736842	MT
SSB_{2009}/SSB_{msy}	0.185	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1931	1931		1931	1931
Maximum year	2009	2009		2009	2009
Time series minimum	48470.10065	1130.471281		113766.4	0
Time series maximum	987246.604	12506.18435		1383627.072	85355.76
Units	MT	E03		MT	MT



Assessment of 0

Assessment ID:INIDEP-ARGANCHONARG-1989-2007-Parma

Issue URL:

Area ID:

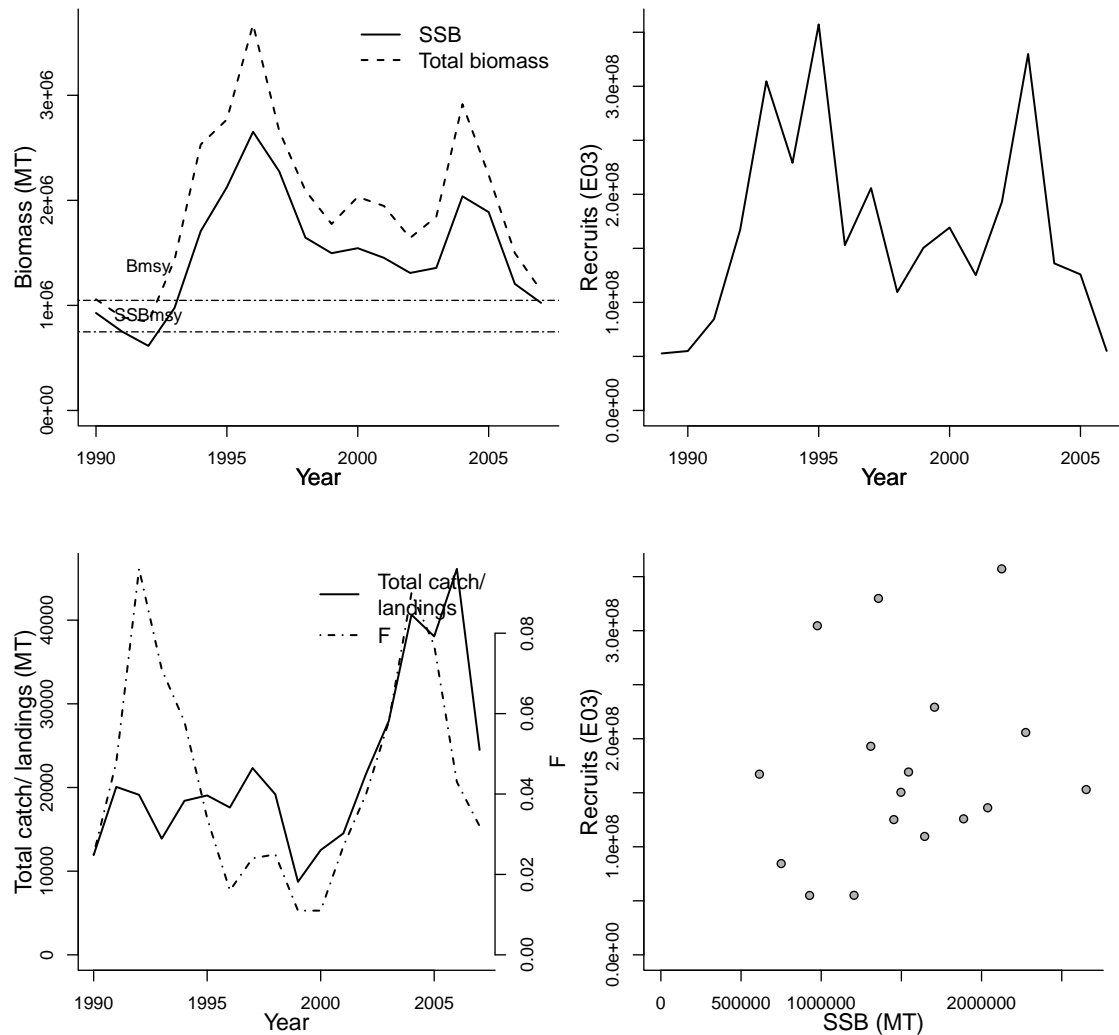
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Hansen, Jorge
Assessment method	A general approach to fitting VPA models. ADAPT is based on minimising the sum-of-squares over any number of indices of abundance to find best-fit parameters.
Publication year	2008
Timeseries span	1989-2007
Document	Hansen-ANCHOVY-N-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	1.2	yr	Fmsy-1/yr (F)	0.1898	1/yr
SSB-SEX-sex	0	sex	Fpa-1/yr (F)	0.18	1/yr
REC-AGE-yr	1	yr	Fcurrent-1/T (F)	0.04	1/T
F-AGE-yr-yr	1-6	yr-yr	NATMORT-1/yr (M)	1.02	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.4722	1/T
A50-yr	1	yr	SSBmsy-MT (SSB)	748152	MT
L50-cm	10	cm	MSY-MT (TB)	424027.80	MT
M-1/yr	1.02	1/yr	BH-h-dimless	0.90	dimless
NATMORT-1/yr	1.02	1/yr	Bmsy-MT (TB)	1047948.41	MT
M			TB_{2007}/B_{msy}	1.089	
			F_{2007}/F_{msy}	0.169	
			SSB_{2007}/SSB_{msy}	1.370	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1990	1989	1990	1990	1990
Maximum year	2007	2006	2007	2007	2007
Time series minimum	614617.83	52734570	0.011	843773.89	8727.7
Time series maximum	2652436.6	357208920	0.096	3674349.79	46128.48
Units	MT	E03	1/yr	MT	MT



Assessment of 0

Assessment ID:INIDEP-ARGANCHOSARG-1992-2007-Parma

Issue URL:

Area ID:

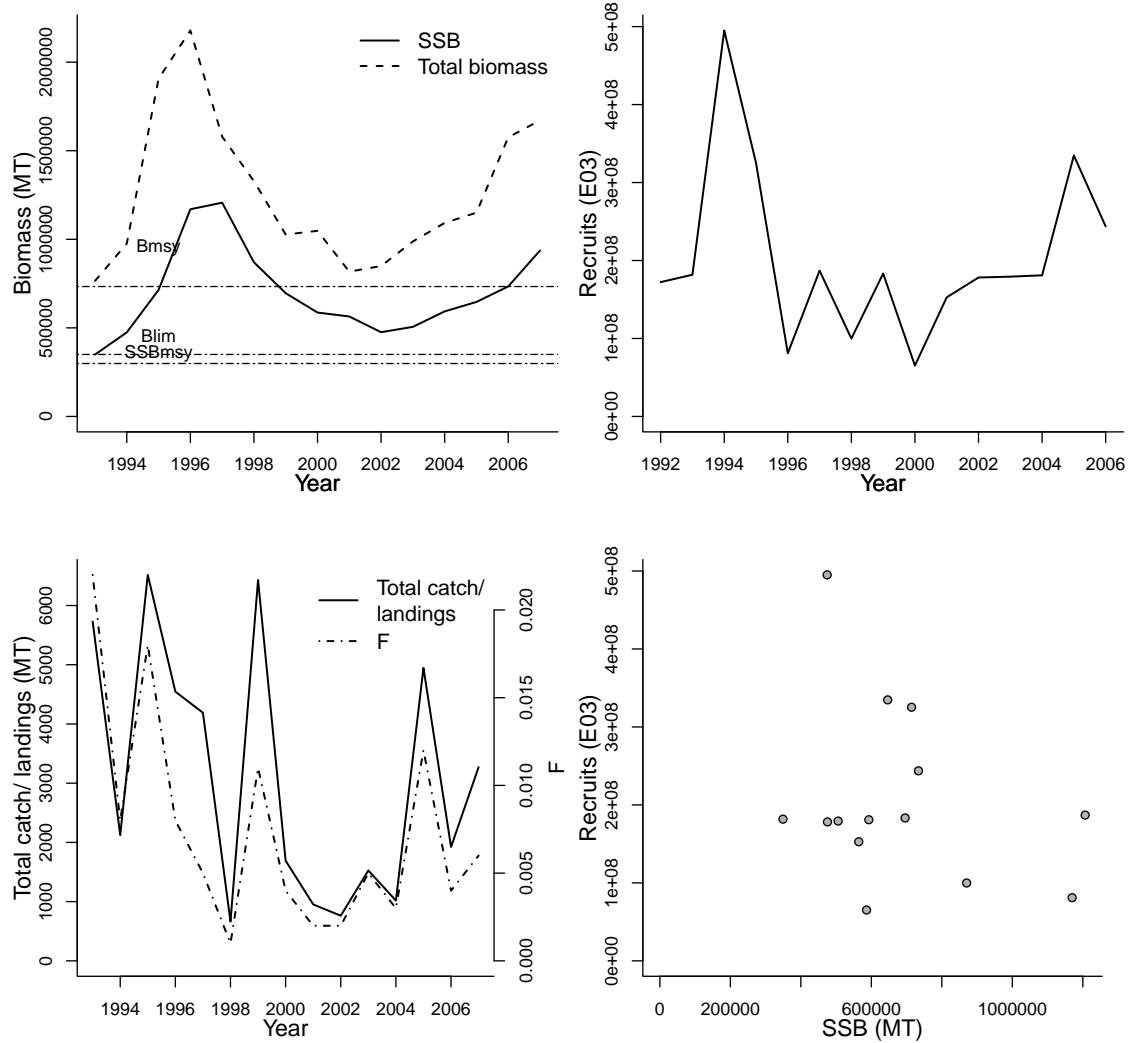
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Hansen, Jorge
Assessment method	Age-structured surplus production model
Publication year	2008
Timeseries span	1992-2007
Document	Hansen-ANCHOVY-S-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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
14 - Patagonian Shelf			na		na
			Reference points		
Parameter	Value	Units	Parameter	Value	Units
SSB-AGE-yr	1.7	yr	Fmax-1/yr (F)	1.89330	1/yr
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.1700	1/yr
REC-AGE-yr	1	yr	Fpa-1/yr (F)	0.17	1/yr
F-AGE-yr-yr	1-6	yr-yr	Fcurrent-1/T (F)	0.006	1/T
TB-AGE-yr	1+	yr	NATMORT-1/yr (M)	1.05	1/yr
A50-yr	1	yr	F40%-1/T	0.2052	1/T
L50-cm	13.2	cm	SSBmsy-MT (SSB)	298839	MT
M-1/yr	1.05	1/yr	MSY-MT (TB)	289825.38	MT
NATMORT-1/yr	1.05	1/yr	BH-h-dimless	0.73	dimless
M			Blim-MT (TB)	350000	MT
			Bmsy-MT (TB)	733418.85	MT
			Bpa-MT (TB)	1260000	MT
			TB_{2007}/B_{msy}	2.279	
			F_{2007}/F_{msy}	0.035	
			SSB_{2007}/SSB_{msy}	3.135	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1993	1992	1993	1993	1993
Maximum year	2007	2006	2007	2007	2007
Time series minimum	349381.69	65263840	0.001	765224.53	662.86
Time series maximum	1206672.22	495050030	0.022	2178898.56	6517.37
Units	MT	E03	1/yr	MT	MT



Assessment of 0

Assessment ID:INIDEP-ARGHAKENARG-1985-2007-Parma

Issue URL:

Area ID:

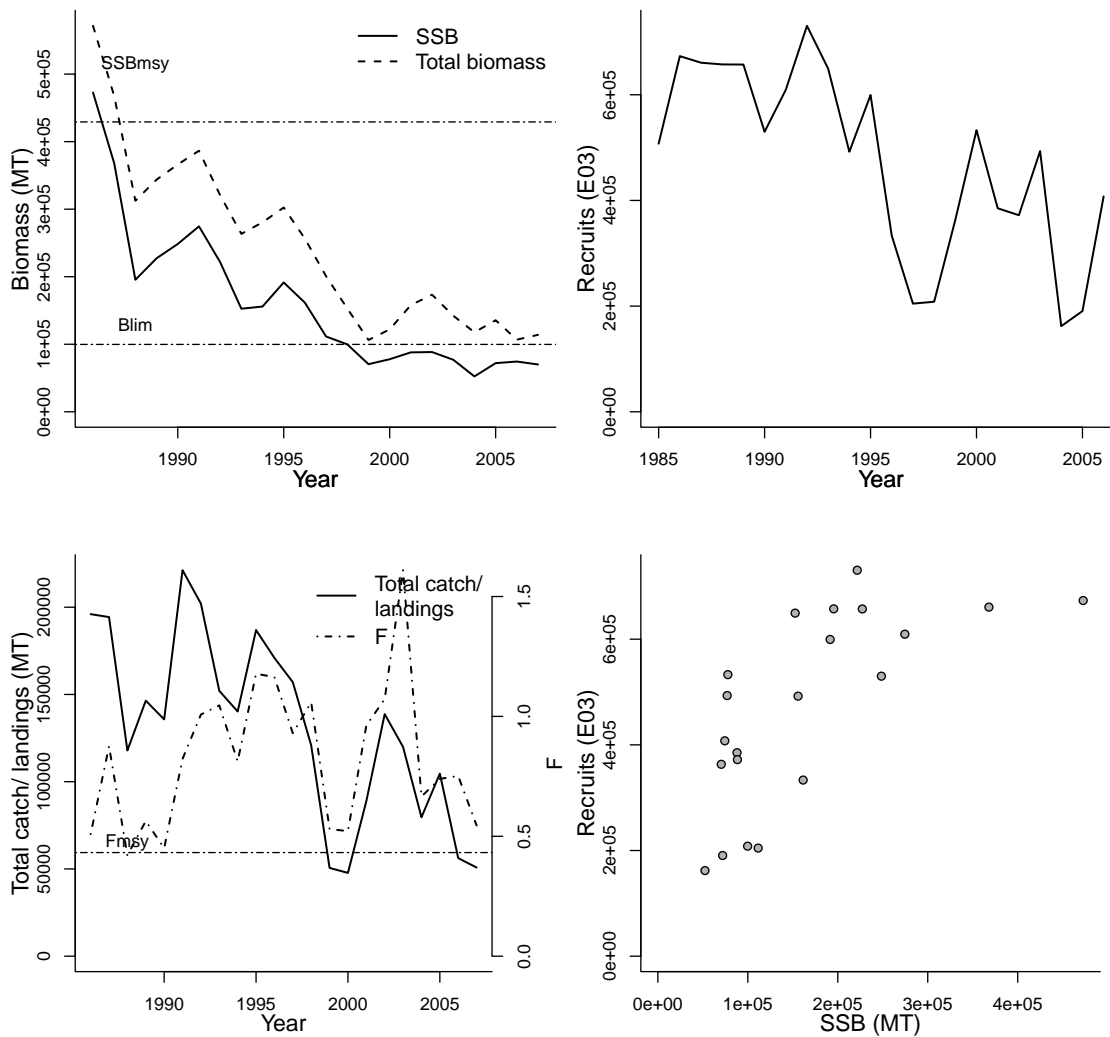
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Irusta, Gabriela
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1985-2007
Document	Irusta-hake-N-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
			Reference points		
			Parameter	Value	Units
Parameter	Value	Units	Fmax-1/yr (F)	0.2978	1/yr
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.4322	1/yr
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.3	1/yr
F-AGE-yr-yr	3-6	yr-yr	F40%-1/T	0.18791	1/T
TB-AGE-yr	1+	yr	SSBmsy-MT (SSB)	429200	MT
A50-yr	2.62	yr	MSY-MT (TB)	169416	MT
M-1/yr	0.3	1/yr	Umsy-ratio (U)	0.28133	ratio
NATMORT-1/yr	0.3	1/yr	Blim-MT (TB)	99764	MT
SSB-AGE-yr			Bmsy-MT (TB)	602198.00	MT
M			Brebuild-MT (TB)	200000.00	MT
L50-cm			Bbuf-MT (TB)	99764	MT
			TB_{2007}/B_{msy}	0.189	
			F_{2007}/F_{msy}	1.261	
			SSB_{2007}/SSB_{msy}	0.163	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1985	1986	1986	1986
Maximum year	2007	2006	2007	2007	2007
Time series minimum	52371	162065	0.4208	106288	47723
Time series maximum	472775	730545	1.6097	571523	221201
Units	MT	E03	1/yr	MT	MT



Assessment of 0

Assessment ID:INIDEP-ARGHAKESARG-1985-2008-Parma

Issue URL:

Area ID:

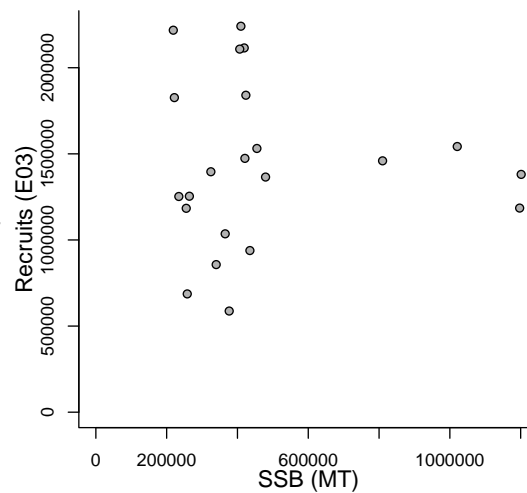
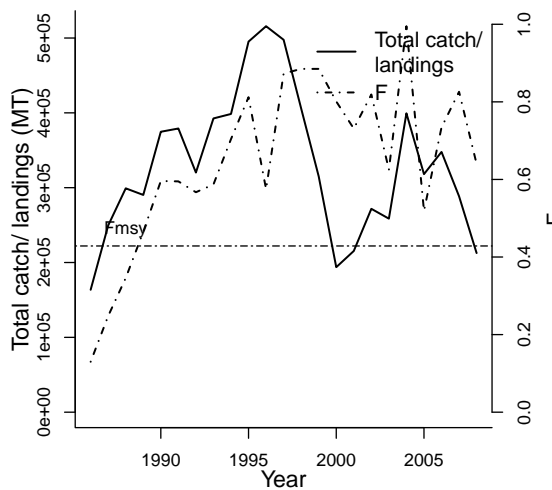
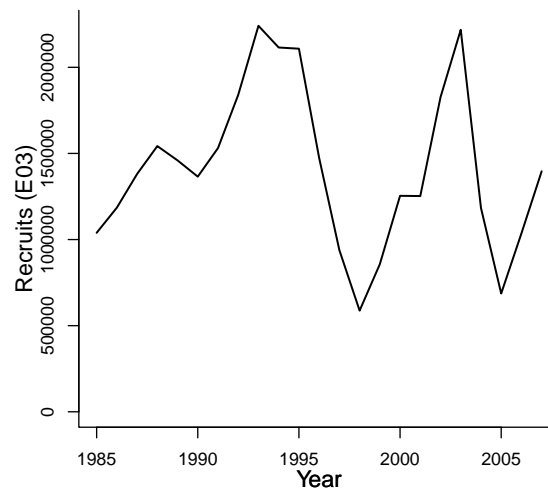
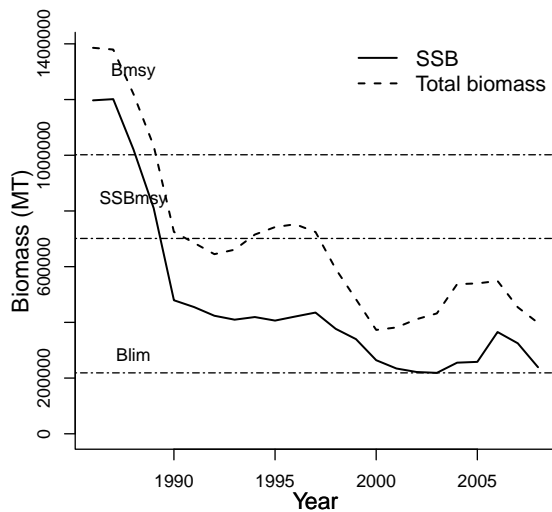
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Renzi, Marta
Assessment method	Virtual Population Analysis
Publication year	2009
Timeseries span	1985-2008
Document	Renzi-hake-S-2009.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
			Reference points		
			Parameter	Value	Units
Parameter	Value	Units	Fmax-1/yr (F)	0.3117	1/yr
SSB-SEX-sex	0	sex	Fmsy-1/yr (F)	0.4285	1/yr
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.3	1/yr
F-AGE-yr-yr	3-6	yr-yr	F40%-1/T	0.19080	1/T
TB-AGE-yr	1+	yr	SSBmsy-MT (SSB)	701328.02	MT
A50-yr	2.62	yr	MSY-MT (TB)	277675.26	MT
M-1/yr	0.3	1/yr	Umsy-ratio (U)	0.27718	ratio
NATMORT-1/yr	0.3	1/yr	Blim-MT (TB)	218713	MT
SSB-AGE-yr			Bmsy-MT (TB)	1001788.06	MT
M			Brebuild-MT (TB)	500000	MT
L50-cm			Bbuf-MT (TB)	376680	MT
			TB_{2008}/B_{msy}	0.397	
			F_{2008}/F_{msy}	1.494	
			SSB_{2008}/SSB_{msy}	0.341	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1986	1985	1986	1986	1986
Maximum year	2008	2007	2008	2008	2008
Time series minimum	218713	587405	0.13	372877	163565
Time series maximum	1201451	2241059	0.995	1385781	515771
Units	MT	E03	1/yr	MT	MT



Assessment of 0

Assessment ID:INIDEP-PATGRENADIERSARG-1983-2006-Parma

Issue URL:

Area ID:

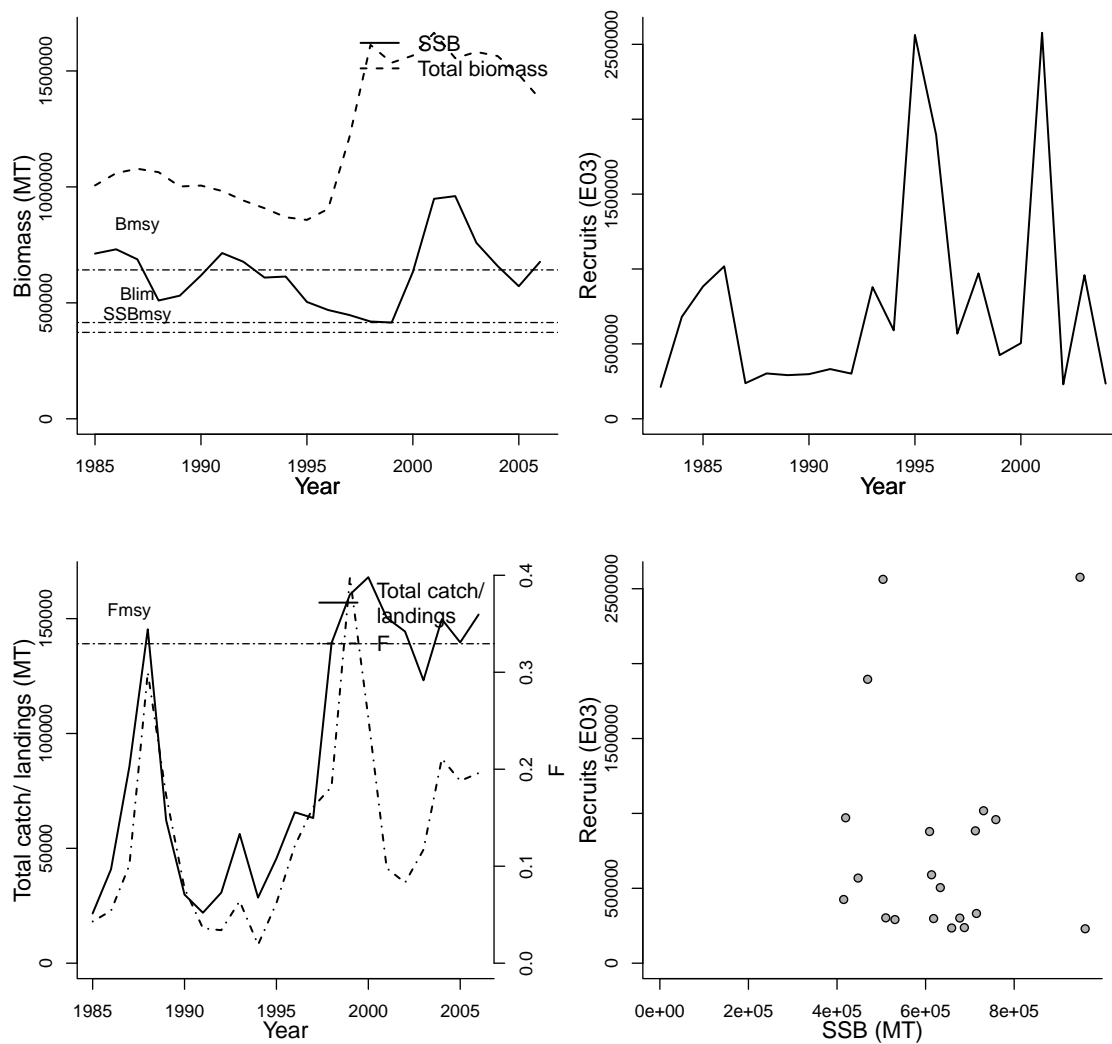
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Giussi, Analia
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1983-2006
Document	Giussi-hoki-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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	
14 - Patagonian Shelf			na	na	
			Reference points		
			Parameter	Value	Units
Parameter	Value	Units	Fmax-1/yr (F)	0.3630	1/yr
SSB-AGE-yr	3+	yr	Fmsy-1/yr (F)	0.3294	1/yr
SSB-SEX-sex	0	sex	NATMORT-1/yr (M)	0.3	1/yr
REC-AGE-yr	1	yr	F40%-1/T	0.1842	1/T
F-AGE-yr-yr	5- 12	yr-yr	SSBmsy-MT (SSB)	372542.00	MT
TB-AGE-yr	1+	yr	MSY-MT (TB)	132131.00	MT
A50-yr	3.59	yr	Umsy-ratio (U)	0.2058	ratio
L50-cm	57.79	cm	Blim-MT (TB)	415041.00	MT
M-1/yr	0.3	1/yr	Bmsy-MT (TB)	642031.00	MT
NATMORT-1/yr	0.3	1/yr	Brebuild-MT (TB)	500000.00	MT
M			Bbuf-MT (TB)	712405.00	MT
			TB_{2006}/B_{msy}	2.147	
			F_{2006}/F_{msy}	0.595	
			SSB_{2006}/SSB_{msy}	1.817	

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1985	1983	1985	1985	1985
Maximum year	2006	2004	2006	2006	2006
Time series minimum	415041	212795	0.019	857676	21663
Time series maximum	960291	2576934	0.398	1664567	168031
Units	MT	E03	1/yr	MT	MT



Assessment of 0

Assessment ID:INIDEP-SBWHITARGS-1985-2007-Parma

Issue URL:

Area ID:

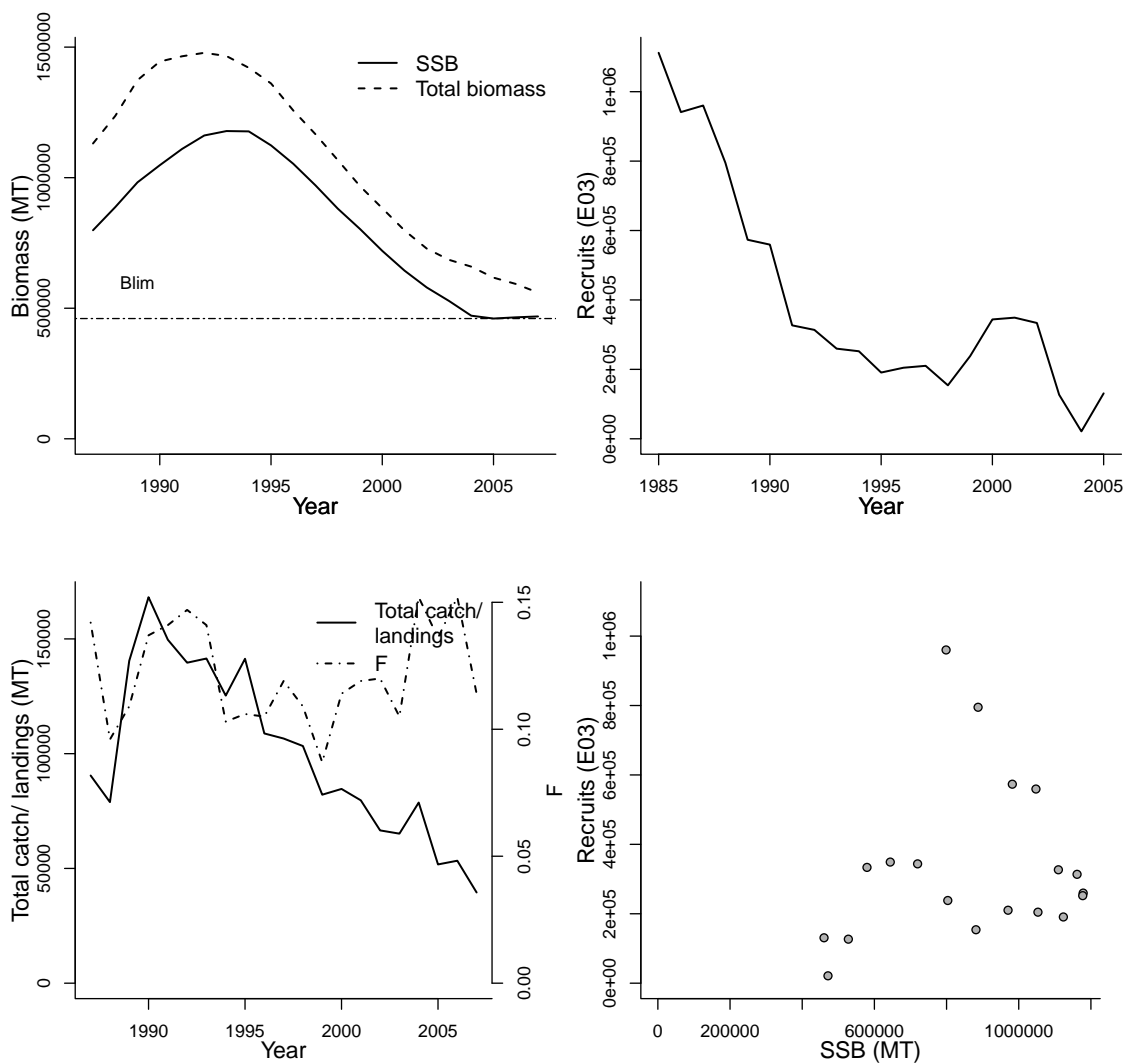
General assessment details.

Detail	Value
Management body	CFP
Assessment group	Instituto Nacional de Investigacion y Desarrollo Pesquero
Assessment authors	Giussi, Analia
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1985-2007
Document	Giussi-polaca-2007.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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
14 - Patagonian Shelf			na		na
Parameter	Value	Units	Reference points		
SSB-AGE-yr	3+	yr	Parameter	Value	Units
SSB-SEX-sex	0	sex	Fmax-1/yr (F)	0.566	1/yr
REC-AGE-yr	1	yr	Fpa-1/yr (F)	0.05	1/yr
F-AGE-yr-yr	7 - 21	yr-yr	NATMORT-1/yr (M)	0.15	1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.1930	1/T
A50-yr	3.3	yr	Blim-MT (TB)	460473	MT
L50-cm	35.5	cm	Brebuild-MT (TB)	600000	MT
M-1/T	0.15	1/T	Bbuf-MT (TB)	471387	MT
NATMORT-1/yr	0.15	1/yr			
M					

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1987	1985	1987	1987	1987
Maximum year	2007	2005	2007	2007	2007
Time series minimum	460473	21293	0.087	559839	39522
Time series maximum	1178558	1112030	0.152	1478240	168162
Units	MT	E03	1/yr	MT	MT



Assessment of 0

Assessment ID:IPHC-PHALNPAC-1988-2009-Parma

Issue URL:

Area ID:

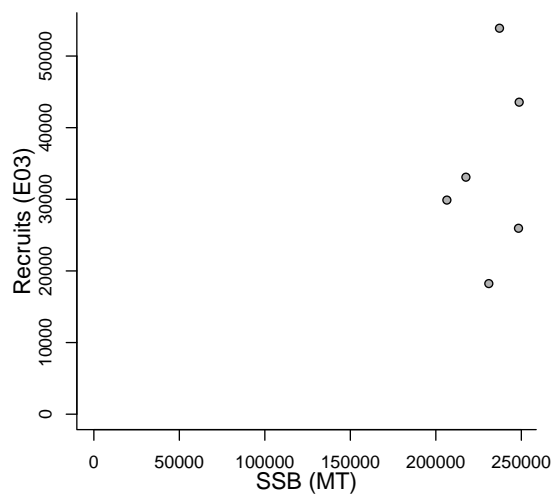
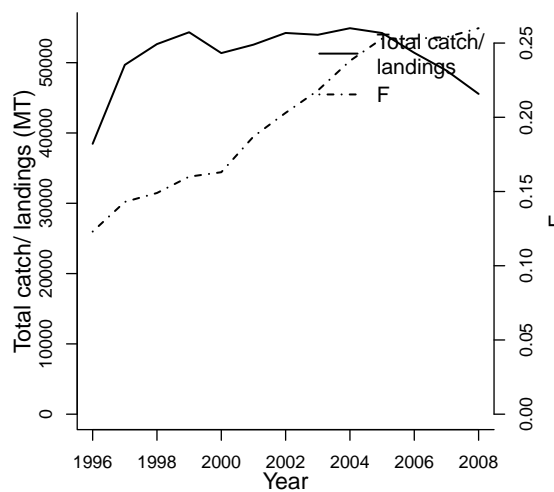
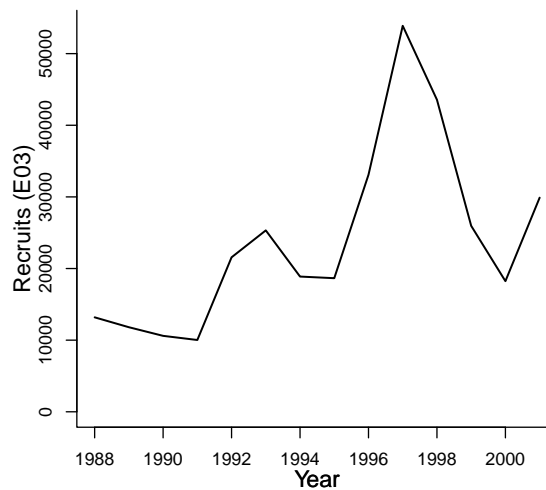
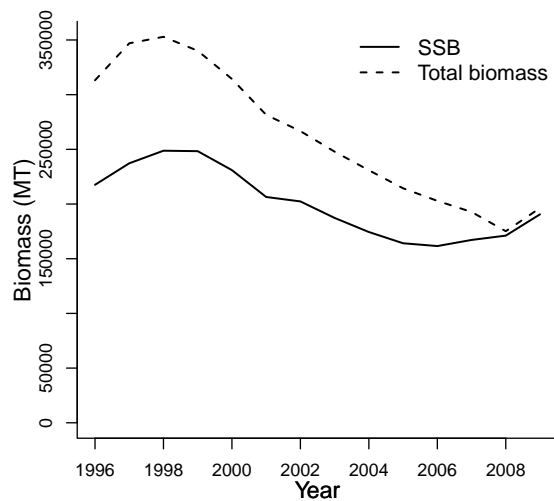
General assessment details.

Detail	Value
Management body	IPHC
Assessment group	International Pacific Halibut Commission
Assessment authors	Hare, Steven
Assessment method	an AD-Model builder statistical Catch at Age Model
Publication year	2009
Timeseries span	1988-2009
Document	hare-clark08.pdf (pdf in database)
Recorder	
Date entered	
Date last loaded	
QA/QC complete	
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		
2 - Gulf of Alaska			1 - East Bering Sea			na		
Parameter	Value	Units	Reference points			Parameter	Value	Units
SSB-AGE-yr	11.59	yr	Flim-1/yr (F)	available	1/yr	SSBlimit30%-MT	142758.76	MT
SSB-SEX-sex	1	sex	SSBlimit20%-MT	106464.16	MT	SSB0-MT (SSB)	531110.98	MT
REC-AGE-yr	8	yr	ERtarget-ratio	0.2	ratio	ERcurrent-ratio	0.26	ratio
F-AGE-yr-yr	6+	yr-yr	NATMORT-1/yr (M)	0.15	1/yr	SPRF0-E01 (SPR)	29.82	E01
TB-AGE-yr	6	yr	F40%-1/T	0.17	1/T	F0.1-1/yr (F)	0.26	1/yr
A50-yr	11.59	yr						
L50-cm	97.63	cm						
M-1/yr	0.15	1/yr						
NATMORT-1/yr	0.15	1/yr						
M								

Time series minima and maxima					
	SSB	R	F	TB	Catch
Minimum year	1996	1988	1996	1996	1996
Maximum year	2009	2001	2008	2009	2008
Time series minimum	161580.08	10022.68	0.123	175147.11	38462.26
Time series maximum	248746.72	53885.1	0.26	352901.09	54902.89
Units	MT	E03	ratio	MT	MT



MAP KEY:

- Large Marine Ecosystems
Watershed Bounds
Political Borders

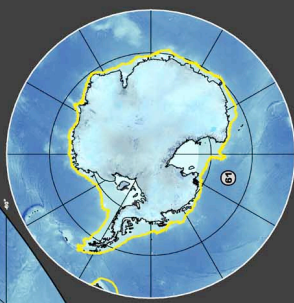


Data Sources:
 Bathymetry (2-minute) : Smith and Sandwell, 1997
 Bathymetry (5-minute) : NAVOCEANO, DSDMS
 Watersheds (HYDRO 1K) : USGS First Data Center
 Fernestral Image : ESRI



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

For More Information Visit: www.edc.uri.edu/lme



SOUTH POLAR REGION