Dear Ana,

Thank you sincerely for submitting assessments to the Myers II database. We have entered 6 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 Northern Argentina argentine anchoita (Engraulis anchoita) Assessment ID:INIDEP-ARGANCHONARG-1989-2007-Parma

Area ID: Argentina-INIDEP-ARG-N

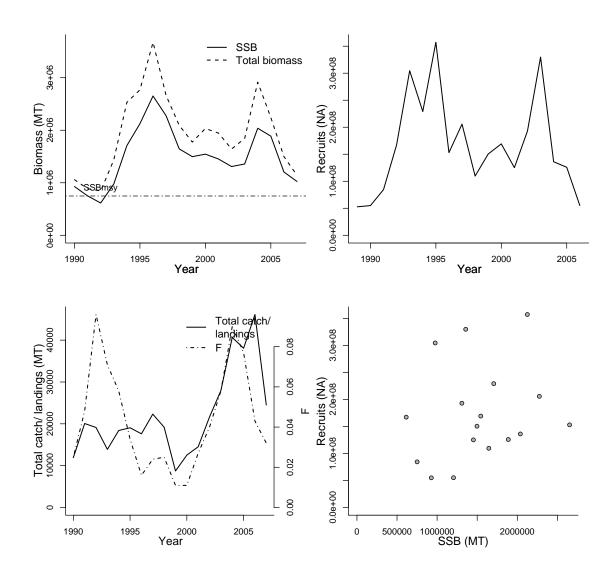
General assessment details.

Detail	Value
Management body	INIDEP
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	NULL (pdf not in database)
Recorder	Parma
Date entered	2009-03-12

Parameter	Value	Units
SSB-AGE-yr	1.2	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	1	yr
L50-cm	10	cm
M-1/yr	1.02	1/yr
NATMORT-1/yr	1.02	1/yr
F-AGE-yr		
M		
MORATOR-yr-yr		
LME		

Reference points						
Parameter	Value	Units				
Fmsy-1/yr (F)	0.1898	1/yr				
Fpa-1/yr (F)	0.18	1/yr				
Fcurrent-1/T (F)	0.04	1/T				
NATMORT-1/yr (M)	1.02	1/yr				
F40%-1/T	0.4722	1/T				
SSBmsy-MT (SSB)	748152	MT				
MSY-MT (TB)	424027.80	MT				
BH-h-dimensionless	0.90	dimensionless				
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		1/yr	MT	MT		



Assessment of Southern Argentina argentine anchoita (Engraulis anchoita) Assessment ID:INIDEP-ARGANCHOSARG-1992-2007-Parma

Area ID: Argentina-INIDEP-ARG-S

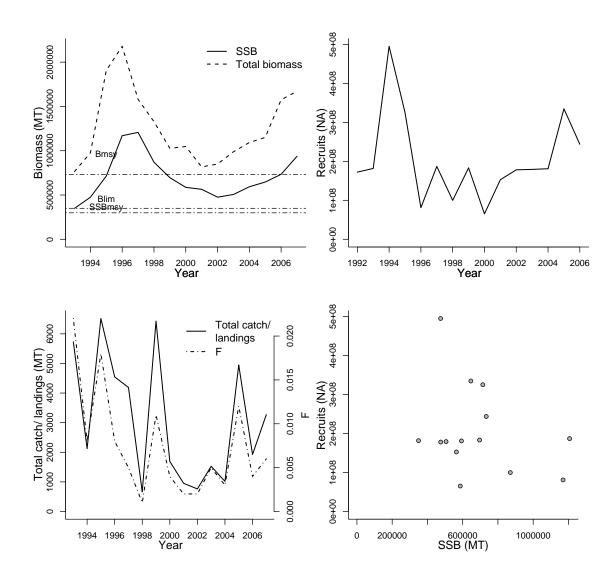
General assessment details.

Detail	Value						
Management body	INIDEP						
Assessment group	Instituto Nacional de Investigacion y De-						
	sarrollo Pesquero						
Assessment authors	Hansen, Jorge						
Assessment method	Age-structured surplus production						
	model						
Publication year	2008						
Timeseries span	1992-2007						
Document	NULL (pdf not in database)						
Recorder	Parma						
Date entered	2009-03-12						

Parameter	Value	Units
SSB-AGE-yr	1.7	yr
REC-AGE-yr	1	yr
TB-AGE-yr	1+	yr
A50-yr	1	yr
L50-cm	13.2	cm
M-1/yr	1.05	1/yr
NATMORT-1/yr	1.05	1/yr
F-AGE-yr		
M		
MORATOR-yr-yr		
LME		

Reference points							
Parameter	Parameter Value						
Fmax-1/yr (F)	1.89330	1/yr					
Fmsy-1/yr (F)	0.1700	1/yr					
Fpa-1/yr (F)	0.17	1/yr					
Fcurrent-1/T (F)	0.006	1/T					
NATMORT-1/yr (M)	1.05	1/yr					
F40%-1/T	0.2052	1/T					
SSBmsy-MT (SSB)	298839	MT					
MSY-MT (TB)	289825.38	MT					
BH-h-dimensionless	0.73	dimensionless					
Blim-MT (SSB)	350000	MT					
Bmsy-MT (TB)	733418.85	MT					
SSB_{2007}/B_{lim}	2.677						
TB_{2007}/B_{msy}	5.594						
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		1/yr	MT	MT	



Assessment of Northern Argentina argentine hake (*Merluccius hubbsi*) Assessment ID:INIDEP-ARGHAKENARG-1986-2007-Parma

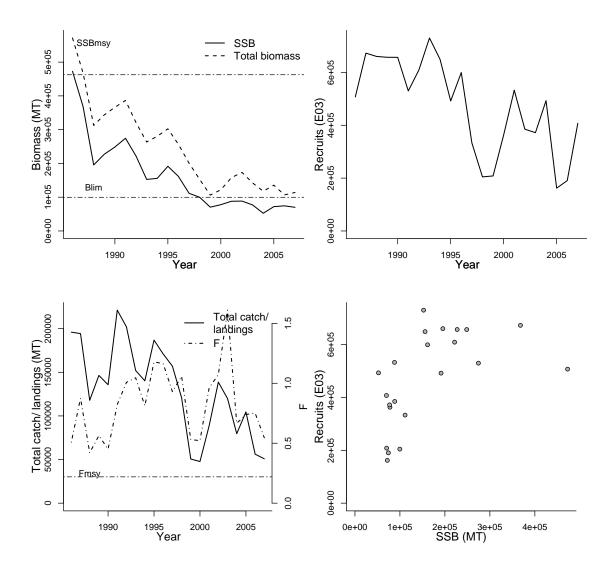
Area ID: Argentina-INIDEP-ARG-N

General assessment details.

Detail	Value
Management body	INIDEP
Assessment group	Instituto Nacional de Investigacion y De-
	sarrollo Pesquero
Assessment authors	Irusta, Gabriela
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1986-2007
Document	NULL (pdf not in database)
Recorder	Parma
Date entered	2009-03-12

Parameter	Value	Units	Referenc	e points	
	varue		Parameter	Value	Units
REC-AGE-yr TB-AGE-yr A50-yr M-1/yr NATMORT-1/yr SSB-AGE-yr F-AGE-yr M L50-cm MORATOR-yr-yr LME	1 1+ 2.62 0.3 0.3	yr yr yr 1/yr 1/yr	Fmax-1/yr (F) Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) MSY-MT (TB) Blim-MT (SSB) Brebuild-MT (SSB) SSB_{2007}/B_{lim} F_{2007}/F_{msy} SSB_{2007}/SSB_{msy}	0.14528 0.21941 0.3 0.15715 462617.27 233343.86 99764.00 200000.00 0.702 2.485 0.151	1/yr 1/yr 1/yr 1/T MT MT MT MT

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1986	1986	1986	1986	1986		
Maximum year	2007	2007	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 Southern Argentina argentine hake (*Merluccius hubbsi*) Assessment ID:INIDEP-ARGHAKESARG-1985-2007-Parma

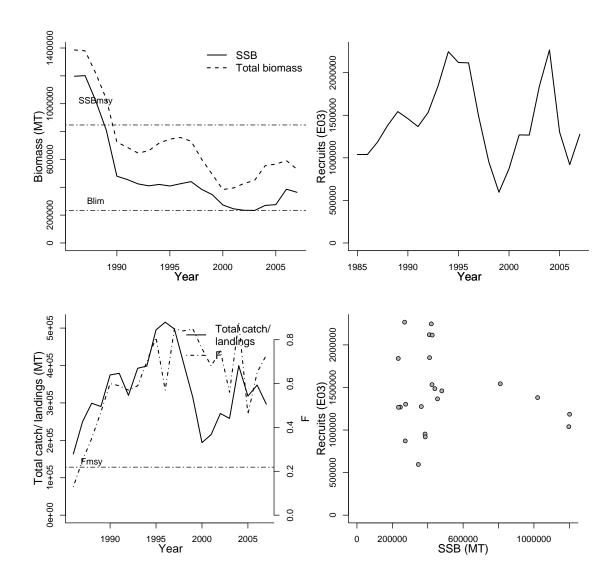
Area ID: Argentina-INIDEP-ARG-S

General assessment details.

Detail	Value
Management body	INIDEP
Assessment group	Instituto Nacional de Investigacion y De-
	sarrollo Pesquero
Assessment authors	Renzi, Marta
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1985-2007
Document	NULL (pdf not in database)
Recorder	Parma
Date entered	2009-03-12

Parameter	Value	Units	e points		
			Parameter	Value	Units
SSB-AGE-yr REC-AGE-yr TB-AGE-yr A50-yr M-1/yr NATMORT-1/yr F-AGE-yr M L50-cm MORATOR-yr-yr LME	3+ 1 1+ 2.62 0.3 0.3	yr yr yr yr 1/yr 1/yr	Fmax-1/yr (F) Fmsy-1/yr (F) NATMORT-1/yr (M) F40%-1/T SSBmsy-MT (SSB) MSY-MT (TB) Blim-MT (SSB) Brebuild-MT (SSB) SSB_{2007}/B_{lim} F_{2007}/F_{msy} SSB_{2007}/SSB_{msy}	0.1453 0.2189 0.3 0.1692 847298.36 384788.76 233611.00 500000.00 1.557 3.335 0.429	1/yr 1/yr 1/yr 1/T MT MT MT MT

Time series minima and maxima							
SSB R F TB Catch							
Minimum year	1986	1985	1986	1986	1986		
Maximum year	2007	2007	2007	2007	2007		
Time series minimum	233611	595795	0.13	383533	163565		
Time series maximum	1201582	2266843	0.88	1385915	515771		
Units	MT	E03	1/yr	MT	MT		



Assessment of Southern Argentina patagonian grenadier (*Macruronus magellanicus*) Assessment ID:INIDEP-PATGRENADIERSARG-1983-2006-Parma

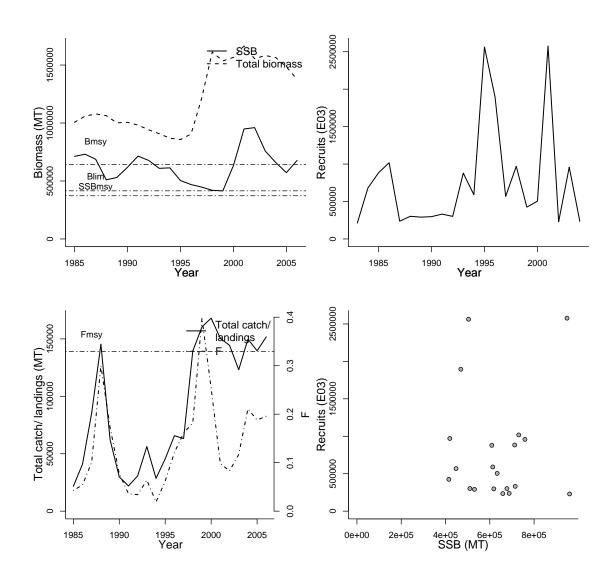
Area ID: Argentina-INIDEP-ARG-S

General assessment details.

Detail	Value
Management body	INIDEP
Assessment group	Instituto Nacional de Investigacion y De-
	sarrollo Pesquero
Assessment authors	Giussi, Analia
Assessment method	Virtual Population Analysis
Publication year	2007
Timeseries span	1983-2006
Document	NULL (pdf not in database)
Recorder	Parma
Date entered	2009-03-12

			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	
REC-AGE-yr	1	yr	NATMORT-1/yr (M)	0.3	1/yr	
TB-AGE-yr	1+	yr	F40%-1/T	0.1842	1/T	
A50-yr	3.59	yr	SSBmsy-MT (SSB)	372542.00	MT	
L50-cm	57.79	cm	MSY-MT (TB)	132131.00	MT	
M-1/yr	0.3	1/yr	Umsy-ratio (U)	0.2058	ratio	
NATMORT-1/yr	0.3	1/yr	Blim-MT (SSB)	415041.00	MT	
F-AGE-yr			Bmsy-MT (TB)	642031.00	MT	
M			Brebuild-MT (SSB)	500000.00	MT	
MORATOR-yr-yr			SSB_{2006}/B_{lim}	1.631		
LME			TB_{2006}/B_{msy}	3.701		
			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 Southern Argentina southern blue whiting (*Micromesistius australis*) Assessment ID:INIDEP-SBWHITARGS-1985-2007-Parma

Area ID: Argentina-INIDEP-ARG-S

General assessment details.

Detail	Value
Management body	INIDEP
Assessment group	Instituto Nacional de Investigacion y De-
	sarrollo Pesquero
Assessment authors	Giussi, Analia
Assessment method	Virtual Population Analysis
Publication year	2008
Timeseries span	1985-2007
Document	NULL (pdf not in database)
Recorder	Parma
Date entered	2009-03-12

Parameter	Value	Units			
SSB-AGE-yr	3+	yr	Reference	points	
REC-AGE-yr	1	yr	Parameter	Value	Units
TB-AGE-yr A50-yr L50-cm M-1/T NATMORT-1/yr F-AGE-yr M MORATOR-yr-yr	1+ 3.3 35.5 0.15 0.15	yr yr cm 1/T 1/yr	Fmax-1/yr (F) Fpa-1/yr (F) NATMORT-1/yr (M) F40%-1/T Blim-MT (SSB) Brebuild-MT (SSB) SSB_{2007}/B_{lim}	0.566 0.05 0.15 0.1930 460473 600000 1.018	1/yr 1/yr 1/yr 1/T MT MT

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		

