

# Assessment of Southern Argentina argentine hake (*Merluccius hubbsi*)

Assessment ID:INIDEP-ARGHAKESARG-1985-2007-Parma  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/103>

Area ID: Argentina-CFP-ARG-S

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	2008
Timeseries span	1985-2007
Document	Renzi-hake-S-2008.pdf (pdf in database)
Recorder	Parma
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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	3+	yr	Fmax-1/yr (F)	0.3117 1/yr
REC-AGE-yr	1	yr	Fmsy-1/yr (F)	0.4374 1/yr
F-AGE-yr-yr	3-6	yr-yr	NATMORT-1/yr (M)	0.3 1/yr
TB-AGE-yr	1+	yr	F40%-1/T	0.19081 1/T
A50-yr	2.62	yr	SSBmsy-MT (SSB)	682189 MT
L50-cm		cm	MSY-MT (TB)	276146 MT
M-1/yr	0.3	1/yr	Umsy-ratio (U)	0.28137 ratio
NATMORT-1/yr	0.3	1/yr	Blim-MT (SSB)	233611 MT
M			Bmsy-MT (TB)	981431 MT
			Brebuild-MT (SSB)	500000 MT
			Bbuf-MT (SSB)	347020 MT
			$SSB_{2007}/B_{lim}$	1.557
			$TB_{2007}/B_{msy}$	0.776
			$F_{2007}/F_{msy}$	1.669
			$SSB_{2007}/SSB_{msy}$	0.533

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	233611	595795	0.13	383533	163565
Time series maximum	1201582	2266843	0.88	1385915	515771
Units	MT	E03	1/yr	MT	MT

