

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

Assessment ID:INIDEP-ARGHAKESARG-1985-2008-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	2009
Timeseries span	1985-2008
Document	Renzi-hake-S-2009.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
REC-AGE-yr	1	yr	Fmax-1/yr (F)	0.3117 1/yr
F-AGE-yr-yr	3-6	yr-yr	Fmsy-1/yr (F)	0.4285 1/yr
TB-AGE-yr	1+	yr	NATMORT-1/yr (M)	0.3 1/yr
A50-yr	2.62	yr	F40%-1/T	0.19080 1/T
M-1/yr	0.3	1/yr	SSBmsy-MT (SSB)	701328.02 MT
NATMORT-1/yr	0.3	1/yr	MSY-MT (TB)	277675.26 MT
SSB-AGE-yr			Umsy-ratio (U)	0.27718 ratio
M			Blim-MT (SSB)	218713 MT
L50-cm			Bmsy-MT (TB)	1001788.06 MT
			Brebuild-MT (SSB)	500000 MT
			Bbuf-MT (SSB)	376680 MT
			$SSB_{2008}/B_{lim}$	1.092
			$TB_{2008}/B_{msy}$	0.568
			$F_{2008}/F_{msy}$	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

