

Evaluation of the 2004  
Resolution on the Conservation  
of Tuna in the eastern Pacific  
Ocean (Resolution C-04-09)



## 2004 Resolution on the Conservation of Tuna in the eastern Pacific Ocean (Resolution C-04-09)

- a 6-week closure during the third OR fourth quarter of the year for purse-seine fisheries
- Longline catches are not to exceed 2001 levels.

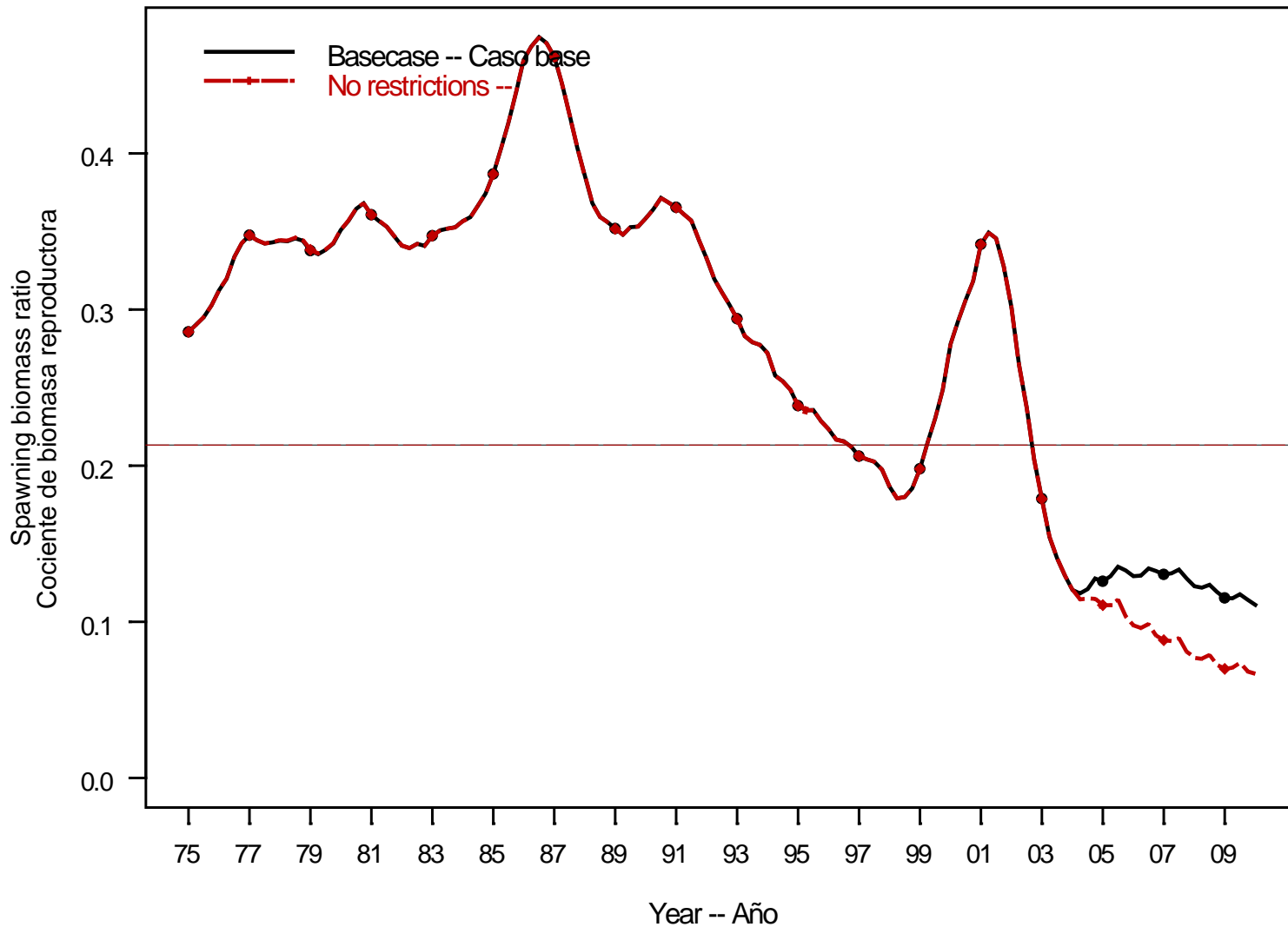


# Methods

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- Projected the population forward 5 years, starting in 2004, assuming that the conservation measures were not implemented
- 6-week closure occurred in the third quarter for bigeye tuna; increased effort by 86%
- 6-week closure occurred in the fourth quarter for yellowfin tuna; increased effort by 86%
- Longline: ratio of catch in 2003 to catch in 2004 was used to increase the effort for restricted countries. southern longline fishery effort was increased by 39% for all quarters

# Bigeye results



# Bigeye results

Year	End of year spawning biomass		Basecase catch		No restrictions catch	
	Base case	No restrictions	Purse seine	Longline	Purse seine	Longline
2004	2848	2504	67808	31918	75967	41527
2005	2923	2210	63557	44041	66835	49234
2006	2945	1995	57193	43646	57091	43319
2007	2777	1738	54521	41540	53380	37997
2008	2608	1582	51380	38808	50831	34013
2009	2510	1511	51537	37373	50925	32275



# Bigeye results: unrestricted/restricted

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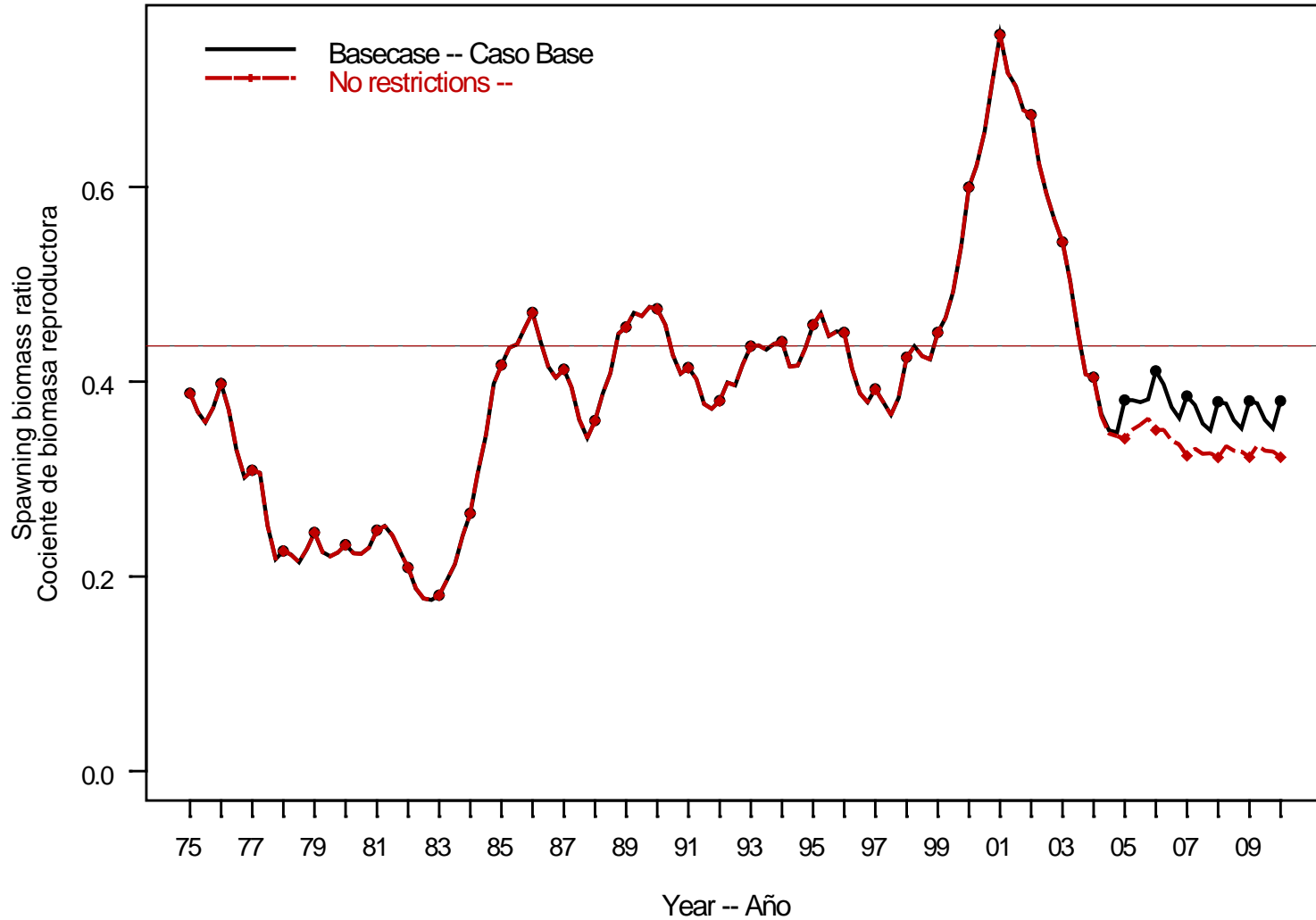
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Year	End of year spawning biomass	Purse-seine catch	Longline catch
2004	0.88	1.12	1.30
2005	0.76	1.05	1.12
2006	0.68	1.00	0.99
2007	0.63	0.98	0.91
2008	0.61	0.99	0.88
2009	0.60	0.99	0.86

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# Yellowfin results



# Yellowfin results

Year	End of year spawning biomass		Basecase catch		No restrictions catch	
	Base case	No restrictions	Purse seine	Longline	Purse seine	Longline
2004	7104	6369	270477	24499	293845	33329
2005	7659	6532	276478	15621	279732	18734
2006	7183	6038	286070	16820	275465	19028
2007	7073	6007	274225	15148	260963	16722
2008	7087	6013	269458	15253	259468	16977
2009	7087	6014	269882	15271	259655	16984





# Yellowfin results: unrestricted/restricted

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Year	End of year spawning biomass	Purse-seine catch	Longline catch
2004	0.90	1.09	1.36
2005	0.85	1.01	1.20
2006	0.84	0.96	1.13
2007	0.85	0.95	1.10
2008	0.85	0.96	1.11
2009	0.85	0.96	1.11

