

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.

# Change in purse seine effort from 2003 (BET fisheries)

<b>. Year</b>	<b>Quarter</b>	<b>Fishery 2</b>	<b>Fishery 3</b>	<b>Fishery 4</b>	<b>Fishery 5</b>	<b>Total</b>
2004	1	1.39	1.13	0.96	0.85	1.13
	2	1.28	0.52	0.40	0.95	0.82
	3	0.96	0.45	0.30	0.75	0.54
	4	0.77	0.89	0.50	0.97	0.82
Total		1.12	0.70	0.53	0.86	0.78
2005	1	1.03	1.99	1.09	1.43	1.22
	2	1.01	2.44	1.70	1.43	1.54
	3	0.76	0.60	0.91	0.76	0.73
	4	0.97	0.86	1.51	1.24	1.04
Total		0.96	0.98	1.25	1.10	1.07
2006	1	1.13	2.22	1.48	1.02	1.40
	2	1.40	2.58	1.32	1.50	1.59
	3	1.43	1.04	0.40	0.99	0.91
	4	0.96	1.18	1.38	1.18	1.17
Total		1.21	1.32	1.08	1.17	1.21

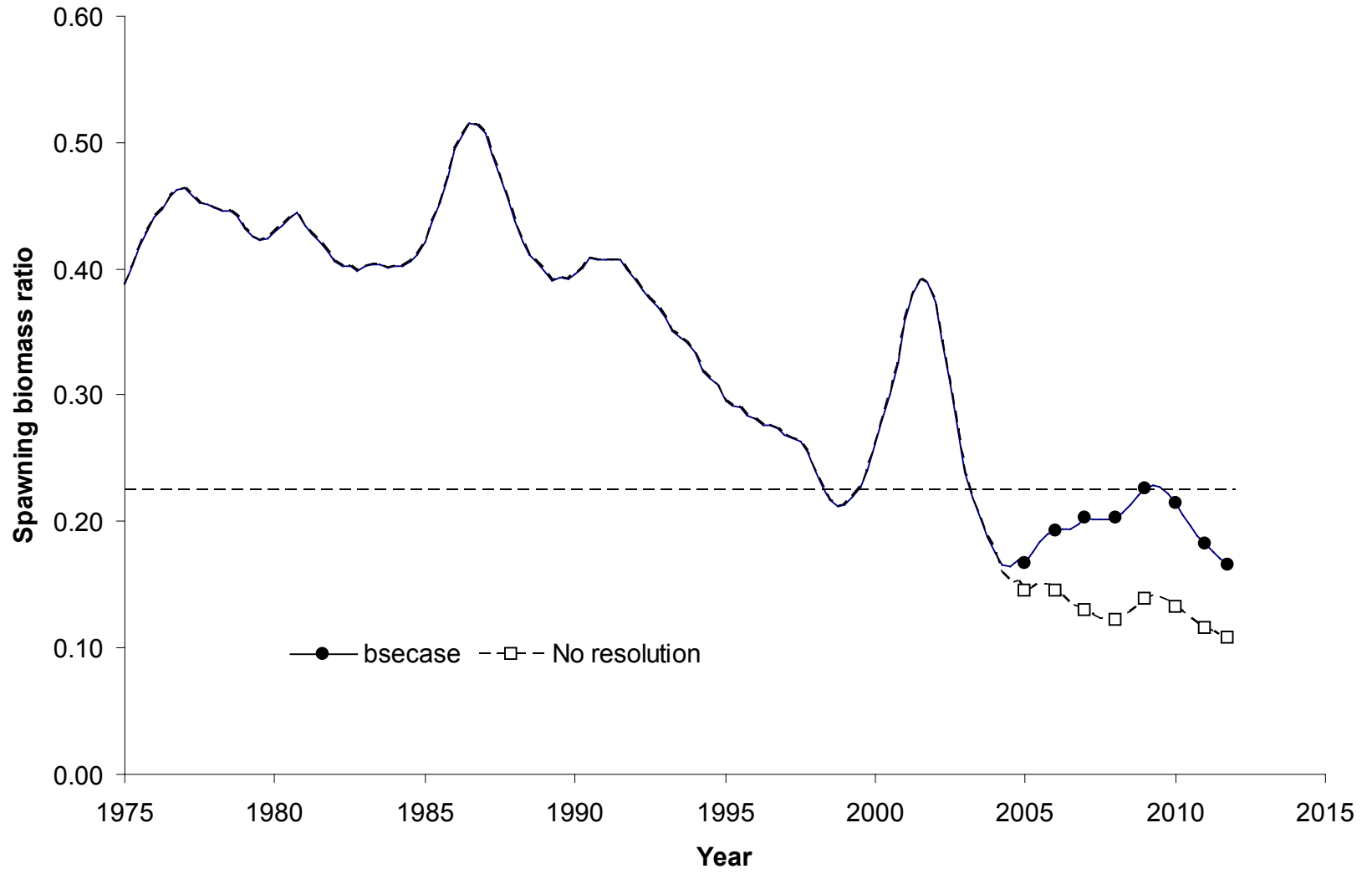
# Change in longline catch

	<b>China</b>	<b>Japan</b>	<b>Korea</b>	<b>Chinese Taipei</b>	<b>Total catch</b>	<b>Relative to 2001</b>
2001	2639	38048	12576	9285	68726	1.00
2002	7614	34193	10358	17253	74405	1.08
2003	10066	24796	10272	12016	59666	0.87
2004	2645	21132	10729	7384	43354	0.63
2005	2104	21137	11580	6901	43893	0.64
2006	709	13618	8694	6878	30019	0.44
<b>Catch limit</b>	<b>2639</b>	<b>34076</b>	<b>12576</b>	<b>7953</b>		

# Methods

- Projected the population forward 8 years, starting in 2004, assuming that the conservation measures were not implemented
- 6-week closure occurred in the third quarter for bigeye tuna; increased catch by 86% (2004-2006)
- 2007-2011: increased exploitation rate by 13%
- Longline: ratio of catch in 2003 to catch in 2004 was used to increase the effort for restricted countries. southern longline fishery catch (2004-2006) and exploitation rate (2007-2011) was increased by 39% for all quarters

# Bigeye results



# Bigeye results: restricted/unrestricted

	<b>End-of-year spawning biomass</b>	<b>Purse-seine catch</b>	<b>Longline catch</b>
2004	0.86	1.13	1.39
2005	0.76	1.13	1.39
2006	0.64	1.13	1.39
2007	0.60	0.90	0.89
2008	0.61	0.93	0.89
2009	0.62	0.97	0.89
2010	0.63	0.99	0.90
2011	0.62	0.99	0.92