

Agenda Item H.1.c - GMT Report 2

TABLE 2-1a. Preliminary PPMC-recommended alternatives for acceptable biological catches (ABCs) and total catch optimum yields (OY's) (mt) for 2009, including preliminary preferred alternatives. (Overfished stocks in CAPS; Stocks with new assessments in bold).

Stock	No Action Alternative			2009 Action Alternatives								Preliminary preferred alternative	
	2007 ABC	2008 ABC	2007-08 OY	2009 ABC	2010 ABC	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY	Alt 5 OY	Alt 6 OY		
Lingcod - coastwide by	6,706	5,953	5,558	5,278	4,829	4,583	4,593						
N of 42° (OR & WA)			612			612	865						
S of 42° (CA)													
Pacific Cod	3,200	3,200	1,600	3,200	3,200	1,600							
Pacific Whiting (U.S.)	612,068 (2007 U.S. & Can.)	400,000 (2008 U.S. & Can.)	242,591 (2007), 269,545 (2008)	To be determined in March 2009	To be determined in March 2010	134,773	269,545	404,318					
Sablefish (Coastwide)	6,210	6,058	5,934	8,914	9,217	8,785	8,423	6,250					
N of 36° (Monteary north)			5,723			8,452	7,052	5,233					
S of 36° (Conception area)			210			343	1,371	1,018					
PACIFIC OCEAN PERCH	900	911	150	1,160	1,173	0	130	164	189				189
Shortbelly Rockfish	13,900	13,900	13,900	6,950	6,950	3,475	6,950	43,900					
WIDOW ROCKFISH	5,334	5,144	368	7,728	6,937	0	371	522					371
CANARY ROCKFISH	172	179	44	937	940	0	35	44	85				105
Chillipepper Rockfish	2,700	2,700	2,000	3,037	2,576	2,000	2,089	3,037					155
BOCACCO	602	618	218	793	783	0	219	288					218
Splittnose Rockfish	615	815	461	615	615	461							
Yellowtail Rockfish	4,585	4,510	4,548	4,562	4,562	4,562							
Shortspine Thornyhead - coastwide	2,488	2,463		2,437	2,411								
Shortspine Thornyhead - N of 34°27'			1,634			1,608							
Longspine Thornyhead - N of 34°27'	3,953	3,860		3,768	3,671	414							
Longspine Thornyhead - S of 34°27'			2,220			2,231							
COWCOD	38	36	4	13	14	0	2	4					2
DARKBLOTCHED	456	487	290 (2007) 330 (2008)	437	440	0	159	229	300				Target=2030
YELLOWEYE	47	47	Ramp-down d	31	32	0	13	17	15				17
Black Rockfish (WA)	540	540	540	490	484	490							
Black Rockfish (OR-CA)	725	719	722	1,469	1,317	820	1000	1,469					

4/6 - updated 2008 U.S. whiting OY, and updated range of alternatives so that Alt 1 is 50%, Alt 2 is equal to 2008 OY, and alt 3 is 150%.
 4/6 - updated the comment for Alt 1 Southern Black r OY to indicate it was based on the low productivity scenario (2009 OY only, 2010 was correct)
 4/6 - corrected Alt 4 Pmax for all Bocaccio Alts
 4/7 - corrected Alt 3 for shortbelly - it is over the ABC

TABLE 2-1a (continued). Preliminary PSMC-recommended alternatives for acceptable biological catches (ABCs) and total catch optimum yields (OYs) (mt) for 2009, including preliminary preferred alternatives. (Overfished stocks in CAPS; Stocks with new assessments in bold).

Stock	No Action Alternative			2009 Action Alternatives						Preliminary preferred alternative		
	2007 ABC a/	2008 ABC a/	2007-08 OY a/	2009 ABC	2010 ABC	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY		Alt 5 OY	Alt 6 OY
Blue Rockfish (CA)	Managed under the Minor Nearshore Rockfish complexes			241	239	Managed under nearshore rockfish complexes	Managed under minor nearshore rockfish complexes	207	230			
Minor Rockfish North	3,880	3,880	2,270	3,678	3,678	2,280	2,283					
Nearshore Species			142			152	155					
Blue rockfish contribution				28	28	25	28					
Shelf Species			968			968						
Slope Species			1,160			1,160						
Minor Rockfish South	3,403		1,904	3,364	3,382	1,970	1,990					
Nearshore Species			564			630	650					
Blue rockfish contribution				213	211	182	202					
Shelf Species			714			714						
Slope Species			626			626						
California scorpionfish	236	202	175	175	155	111	175					
Calazon (off CA only)	84	84	175	108	111	89	74	69				
Dover Sole	28,522	28,442	18,500	28,453	28,582	16,500						
English Sole	6,773	5,701	6,237	14,326	9,745	14,326						
Petrale Sole (coastwide) b/	2,917	2,919	2,498	2,811	2,751	2,433						
Arrowtooth Flounder	5,800	5,800	5,800	11,267	10,112	5,245	11,267					
Starry Flounder	1,221	1,221	890	1,508	1,578	1,004						
Other Flatfish	6,731	6,731	4,884	6,731	6,731	4,884						
Other Fish	14,600	14,600	7,300	TBD d/	TBD d/	TBD d/	TBD d/	TBD d/				
Longnose Skate				3,428	3,269	901	1,349	3,428				
Kelp Greenling HG (OR)			OR HG			OR HG						

a/ The Council elected to average OY projections for 2007 and 2008. ABCs are year-specific.

b/ Area OYs/HGs are stratified according to the assessment areas and alternatively adjusted by management areas for lingcod and petrale sole.

c/ The yellowwe ramp-down strategy ramps the harvest rate down from the status quo harvest rate and resumes a constant harvest rate strategy in 2011. The 2007-2010 OYs are 23 mt, 20 mt, 17 mt, and 14 mt, respectively under the ramp-down strategy.

TABLE 2-1b. Preliminary PFMIC-recommended alternatives for acceptable biological catches (ABCs) and total catch optimum yields (OYs) (mt) for 2010, including preliminary preferred alternatives. (Overlashed stocks in CAPS; Stocks with new assessments in bold).

Stock	No Action Alternative			2010 Action Alternatives						Preliminary preferred alternative		
	2007 ABC #/	2008 ABC #/	2007-08 OY #/	2009 ABC	2010 ABC	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY		Alt 5 OY	Alt 6 OY
Lingcod - coastwide b/	6,706	5,853	5,558	5,278	4,829	4,173	4,173					
N of 42° (OR & WA)			812			612	656					
S of 42° (CA)												
Pacific Cod	3,200	3,200	1,600	3,200	3,200	1,600						
Pacific Whiting (U.S.)	612,068 (2007 U.S. & Can.)	400,000 (2008 U.S. & Can.)	242,591 (2007), 289,545 (2008)	To be determined in March 2009	To be determined in March 2010	134,773	289,545	404,318				
Sablefish (Coastwide)	6,210	6,058	5,934	8,814	9,217	8,988	7,728	5,777				
N of 36° (Monterey north)			5,723			8,673	6,471	4,837				
S of 36° (Conception area)			210			315	1,258	841				
PACIFIC OCEAN PERCH	900	911	150	1,160	1,173	0	137	173	200			200
Shortbelly Rockfish	13,900	13,900	13,900	6,950	6,950	3,475	6,950	48,609				
WIDOW ROCKFISH	5,334	5,144	388	7,728	6,937	0	362	509				362
CANARY ROCKFISH	172	179	44	937	940	0	35	44				85
Chillipepper Rockfish	2,700	2,700	2,000	3,037	2,576	2,000	2,089	2,578				105
BOCACCO	602	618	218	793	793	0	227	302				227
Splittnose Rockfish	815	815	481	815	815	481						
Yellowtail Rockfish	4,585	4,510	4,548	4,562	4,562	4,562						
Shortspine Thornyhead - coastwide	2,488	2,463		2,437	2,411							
Shortspine Thornyhead - N of 34°27'			1,634			1,591						
Shortspine Thornyhead - S of 34°27'			421			410						
Longspine Thornyhead - coastwide	3,953	3,860		3,788	3,671							
Longspine Thornyhead - N of 34°27'			2,220			2,175						
Longspine Thornyhead - S of 34°27'			478			385						
COWCOD	38	38	4	13	14	0	2	4				2 Target=2065
DARKBLOTCHED	456	487	280 (2007) 330 (2008)	437	440	0	165	235	306			Target=2030
YELLOWEYE	47	47	Ramp-down d	31	32	0	14	14	15			14
Black Rockfish (WA)	540	540	540	490	464	464						
Black Rockfish (OR-CA)	725	719	722	1,469	1,317	831	1000	1,317				

4/6 - updated 2008 whiting OY, and updated range of alternatives so that Alt 1 is 60%, Alt 2 is equal to 2008 OY, and alt 3 is 150%.

4/6 - updated Pmax for Bocaccio

4/6 - corrected Pmax for Alt 3 DB OY

4/7 - corrected OR-CA Black Rockfish ABCs to match table 2-1a

4/7 - strikeout Alt 3 for shortbelly - it is over the ABC

TABLE 2-1b (continued). Preliminary PFMG-recommended alternatives for acceptable biological catches (ABCs) and total catch optimum yields (OYs) (mt) for 2010, including preliminary preferred alternatives. (Overfished stocks in CAPS; Stocks with new assessments in bold).

Stock	No Action Alternative			2010 Action Alternatives						Preliminary preferred alternative		
	2007 ABC a/	2008 ABC a/	2007-08 OY a/	2009 ABC	2010 ABC	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY		Alt 5 OY	Alt 6 OY
Blue Rockfish (CA)	Managed under the Minor Nearshore Rockfish complexes			241	239	Managed under minor nearshore rockfish complexes	207	230				
Minor Rockfish North	3,680	3,680	2,270	3,678	3,678	2,280	2,283					
Nearshore Species			142			152	155					
Blue rockfish contribution				28	28	25	28					
Shell Species			968			968						
Slope Species			1,160			1,160						
Minor Rockfish South	3,403		1,904	3,384	3,382	1,970	1,990					
Nearshore Species			564			630	650					
Blue rockfish contribution				213	211	182	202					
Shell Species			714			714						
Slope Species			626			626						
California scorpionfish	236	202	175	175	155	98	155					
Cabezon (off CA only)	94	94	88	106	111	69	74	79				
Dover Sole	28,522	28,442	16,500	28,453	28,582	16,500						
English Sole	6,773	5,701	6,237	14,326	9,745	9,745						
Petrale Sole (coastwide) b/	2,917	2,918	2,499	2,811	2,751	2,393						
Arrowtooth Flounder	5,800	5,800	5,800	11,267	10,112	5,245	10,112					
Starry Flounder	1,221	1,221	890	1,509	1,578	1,077						
Other Flatfish	6,731	6,731	4,884	6,731	6,731	4,884						
Other Fish	14,600	14,600	7,300	TBD d/	TBD d/	TBD d/	TBD d/	TBD d/				
Longnose Skate				3,428	3,289	902	1,349	3,289				
Keip Greenling HG (OR)	Managed under the Other Fish complex											

a/ The Council elected to average OY projections for 2007 and 2008. ABCs are year-specific.
 b/ Area OYs/HGs are stratified according to the assessment areas and alternatively adjusted by management areas for lingcod and petrale sole.
 c/ The yelloweye ramp-down strategy/ramps the harvest rate down from the status quo harvest rate and resumes a constant harvest rate strategy in 2011. The 2007-2010 OYs are 23 mt, 20 mt, 17 mt, and 14 mt, respectively under the ramp-down strategy.

TABLE 2-2. Bank for the DRAVT 2005-2010 optimum yield alternative recommended by the PMSC Board.

Stock	AH1 OY	AH2 OY	AH3 OY	AH4 OY	AH5 OY	AH6 OY
Logpod - coastwide Colombia and U.S.-Venezuela Banda, Monterey, and Concepcion areas						
N of 42° (OR & WA)	Adjusted the projected OY from the 2005 assessment for N of 43 deg (Col and U.S -Venezuela) as follows: derived the percentage of the 2005-06 OY estimated for the area between 42 and 43 deg (107 mt/719 mt) and applied this proportion to the estimated OY S of 43 deg to determine an estimated OY for the area between 42 and 43 deg. This was added to the projected OY for N of 43 deg to determine an appropriate OY for N of 42 deg.	Adjusted the projected OY from the 2005 assessment for N of 43 deg (Col and U.S -Venezuela) as follows: derived the percentage of the 2005-06 OY estimated for the area between 42 and 43 deg (107 mt/719 mt) and applied this proportion to the estimated OY S of 43 deg to determine an estimated OY for the area between 42 and 43 deg. This was added to the projected OY for N of 43 deg to determine an appropriate OY for N of 42 deg.				
S of 42° (CA)	Status quo	Adjusted the projected OY for S of 43 deg (Col and U.S -Venezuela) as follows: derived the percentage of the 2005-06 OY estimated for the area between 42 and 43 deg (107 mt/719 mt) and applied this proportion to the estimated OY S of 43 deg to determine an estimated OY for the area between 42 and 43 deg. This was subtracted from the projected area 2005-10 OY for S of 43 deg to determine an appropriate OY for S of 42 deg.				
Perforé Whiting (USA)	Status quo 50% of 2008 U.S. OY	2008 U.S. OY	150% of 2008 U.S. OY			
Seafile (Concepcion)	From Schirripa 2007 base model; Nov 2009-10 ave OY > 2010 ABC	From Schirripa 2007 base model, based on the sum of South of Concepcion OY with 90% precautionary adjustment and North of Concepcion OY	From Schirripa 2007 base abundance model, based on the sum of South of Concepcion OY with 50% precautionary adjustment and North of Concepcion OY			
N of 36° (Monterey B)	96.5% of coastwide OY, which is the status quo appropriate	72% of coastwide OY, which is the 2003-06 ave. proportion of the estimated sweep-area biomass from the NWFS-C half-decade survey	72% of coastwide OY, which is the 2003-06 ave. proportion of the estimated sweep-area biomass from the NWFS-C half-decade survey			
S of 36° (Concepcion)	3.5% of coastwide OY, which is the status quo appropriate	28% of the base model coastwide OY (based on 2003-06 ave biomass from the NWFS-C half-decade survey) with a 50% precautionary adjustment due to assessment and survey uncertainty, and lack of access to fishing grounds in the CCA	28% of the base model coastwide OY (based on 2003-06 ave biomass from the NWFS-C half-decade survey) with a 50% precautionary adjustment due to assessment and survey uncertainty, and lack of access to fishing grounds in the CCA			
PACIFIC OCEAN PBF	T (@ F=0) = 2010	SFR = F90.3%; Targ = 2010; Pmax = 95.0%	SFR = F88% (HR that produces the 0708 ave. OY); Targ = 2011; Pmax = 93%	Status quo SFR = F86.4%; Targ = 2011; Pmax = 94.4%		
Spawning Reeffish	25% of status quo ABC/OY, stock projected to rebuild	50% of status quo ABC/OY, stock projected to remain in equilibrium	Status quo ABC/OY, stock projected to decrease dramatically			
WIDOW ROCKFISH	T (@ F=0) = 2009	SFR = F96.4%; HR that produces the 0708 ave. OY; Targ = 2009; Pmax = 100%	Status quo SFR = F93%; Targ = 2009; Pmax = 100%			
CANARY ROCKFISH	T (@ F=0) = 2019	SFR = F97.3%; Targ = 2020; Pmax = 73.0%	Status quo OY SFR = F96.2%; Targ = 2020; Pmax = 73.0%	SFR = F93.6%; Targ = 2020; Pmax = 75.0%	SFR = F91.2%; Targ = 2020; Pmax = 75.0%	Status quo SFR = F88.7%; Targ = 2021; Pmax = 75%
Chilipepper Reeffish	Status quo OY (rebuild) less than the ABC as an added precautionary mechanism for rebuild biomass bycatch	Long-term equilibrium MSY at F50%				
BOCACCI0	T (@ F=0) = 2020	SFR = F71.6%; HR that produces the 0708 ave. OY; Targ = 2022; Pmax = 91.5%	Status quo SFR = F77.7%; Targ = 2023; Pmax = 88.8%			

TABLE 2-1. Basis for the preliminary 2009-2010 optimum yield alternative recommendations by the PMCG for analysis (continued).

Stock	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY	Alt 5 OY	Alt 6 OY
Blue Rockfish (CA)	Managed under minor NS complexes		Repeatability: 40-10 base case scenario plus 9% adjustment for 50% of the original 94-99 FY Contribution south contribution of blue rockfish to minor northern south ABC	Based on setting the OY equal to the ABC (high productivity model) as constrained by the base model ABC plus 9% for 50% of the original 94-99 FY Contribution south contribution of blue rockfish to minor northern south ABC		
Minor Rockfish North	Based on the increased blue rockfish contribution	Based on the increased blue rockfish contribution				
Nearshore Species	Based on revising the contribution of blue rockfish using the 40-10 base case scenario from the blue rockfish assessment	Based on revising the contribution of blue rockfish using the 40-10 high productivity scenario (as constrained by the ABC) from the blue rockfish assessment				
Blue rockfish center	Based on the historical northern (42% to 40% OY) proportion of blue rockfish applied to the 40-10 base case OY	Based on the historical northern (42% to 40% OY) proportion of blue rockfish applied to the 40-10 high productivity scenario (as constrained by the ABC) from the blue rockfish assessment				
Shell Species	Status quo					
Slope Species	Status quo					
Minor Rockfish South	Based on increased blue rockfish contribution	Based on increased blue rockfish contribution				
Nearshore Species	Based on revising the original contribution of blue rockfish using the 40-10 base case scenario from the blue rockfish assessment	Based on revising the contribution of blue rockfish using the 40-10 high productivity scenario (as constrained by the ABC) from the blue rockfish assessment				
Blue rockfish center	Based on the historical central (40% OY to 34% OY) proportion of blue rockfish applied to the 40-10 base case OY	Based on the historical central (40% OY to 34% OY) proportion of blue rockfish applied to the 40-10 high productivity scenario (as constrained by the ABC) from the blue rockfish assessment				
Shell Species	Status quo					
Slope Species	Status quo					
Remaining Rockfish South						
Black						
Blackgill						
Copier						
Shagfin						
Yellowtail						
Other Rockfish South						
California sardines	Based on the results of the 2005 assessment modified to incorporate CRFS monitoring data for the CPV component	Status quo Based on a value between 137 (2007) and 219 (base model without CPV modification)				
Chinook (off CA only)	Status quo OY (average 2007-2008 projection) based on F50% harvest rate with a 60-20 adjustment from the 2005 assessment	Average OY from the 2005 Assessment for 2009-2010 based on F50% harvest rate with a 60-20 adjustment	Year-specific OY from the 2005 Assessment for 2009-2010 based on F50% harvest rate with a 60-20 adjustment			
Dover Sole	Equilibrium MSY under the proxy HR (SPR = F40%) from 2005 assessment					
English Sole	OY from base model					
Pinkie Sole (coastwide)	Projected from 2005 assessment sum of five 40-10 adjusted northern OYs and 75% of 40-10 adjusted southern OYs (75% precautionary adjustment for assessment uncertainty)					
Columbia and US-Vare areas						
Endred, Menhaden, and Coagegon areas						
N of 40°10'						
S of 40°10'						

TABLE 2.1. Basis for the preliminary 2006-2010 optimum yield alternatives recommended by the PPMC for analysis (continued).

	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY	Alt 5 OY	Alt 6 OY
Stock	Alt 1 OY	Alt 2 OY	Alt 3 OY	Alt 4 OY	Alt 5 OY	Alt 6 OY
Arrowtooth Flounder	Equilibrium MSY under the proxy HR (SPR = F40%) TBD	OY = ABC from base model, Note OY > 2010 ABC TBD				
Other Fish			TBD			
Longnose Sable	Projected OY under the current estimated exploitation rate	OY based on a 50% increase in average landings and discard mortality relative to the base model	OY = ABC under the proxy SPR HR (F45%)			
Kelp Greenling HG (O)	Status quo					

4/6 - updated 2008 whiting OY, and updated range of alternatives so that Alt 1 is 50%, Alt 2 is equal to 2008 OY, and alt 3 is 150%.

4/6 - made SPR, Time to rebuild, etc. for DB consistent with table notes

4/6 - clarify Alt 1 subfish OY is from the Ichthyops BASS MODEL, and is directly comparable to the same stock assessment model as Alt 2, but Alt 2 uses a different sportfishing approach