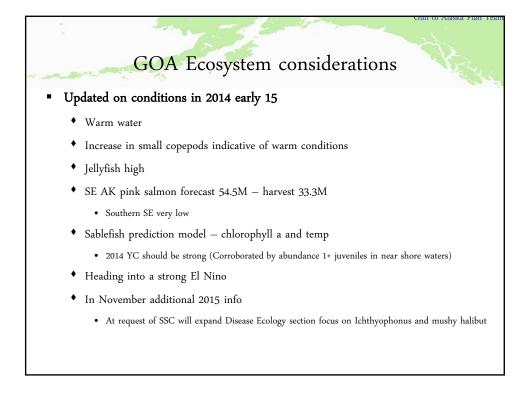
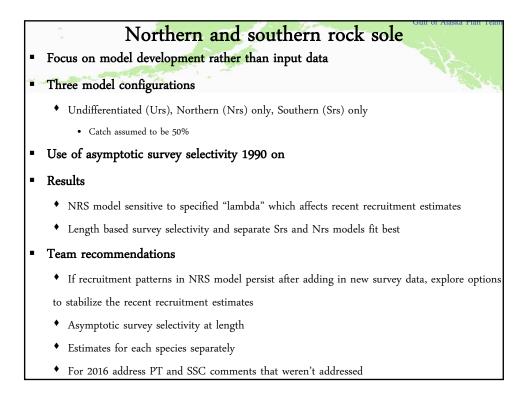
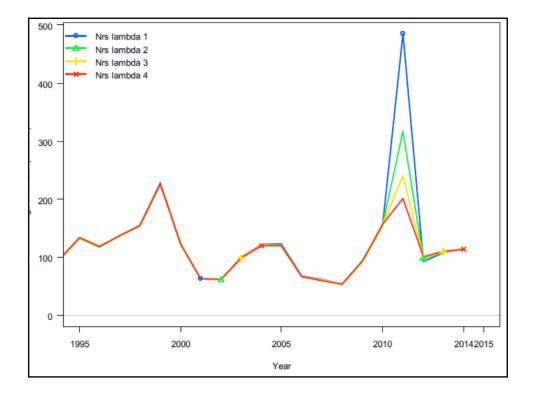
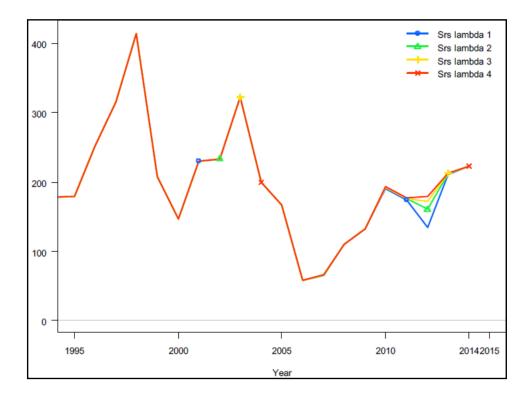
September	Gui	of Alaska Plan Team
GOA Groundfish Plan	Team Report	al all and
Report of the Gulf of Alaska Groundfish Plan Team meeting September 2015	GOA Plan Team Merr James Ianelli (co-chair) Jon Heifetz (co-chair) Jim Armstrong Kristen Green Mark Stichert Jan Rumble Ian Stewart Leslie Slater Nancy Friday Mike Dalton Chris Lunsford Sandra Lowe Paul Spencer Craig Faunce Obren Davis	bers AFSC AFSC ADFG ADFG ADFG IPHC USFWS (joint) NMML AFSC AFSC AFSC AFSC AFSC AFSC AFSC AFSC
This information is distributed solely for the purpose of pre-dis information quality guidelines. It has not been formally dissen Service and should not be construed to represent any	ninated by the National Marine	Fisheries

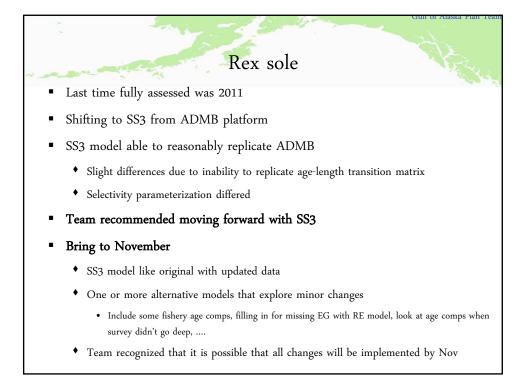




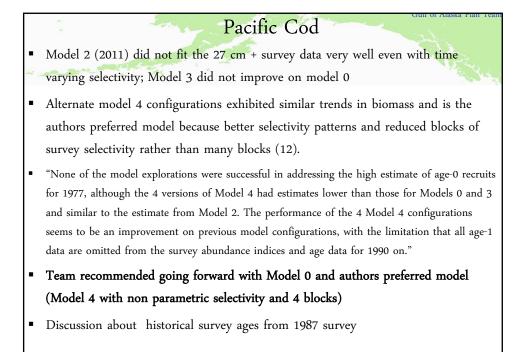


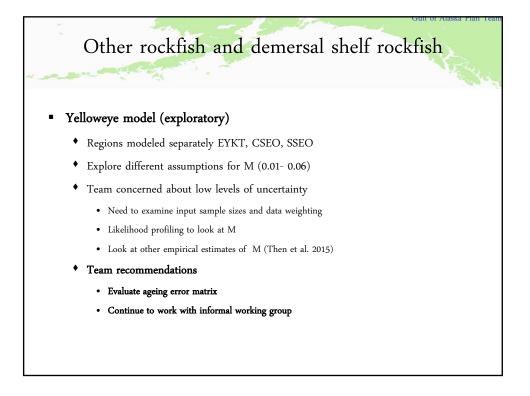


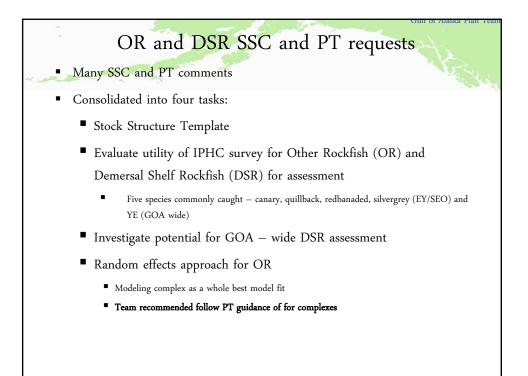


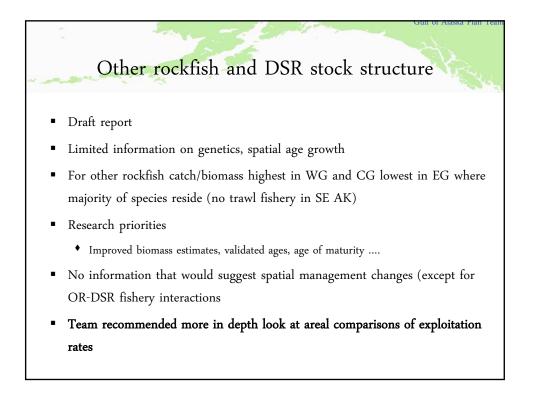


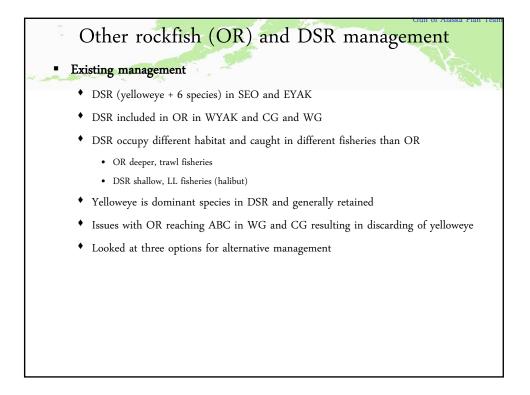
Pacific cod
Focus on model development rather than input data
Sub committee recommendation LL survey data
Taken on later by new author
 On going issue is how to treat age 1 fish and 84 and 87 surveys
 No age data for 84
 Range of ages for 87 is truncated
 Four model configurations
 Model 0 - Final from 2014
 Model 2 - Final from 2011 (12 blocks of survey selectivity)
\blacklozenge Model 3 – Model 0 with minimum age (A_min) 2 instead of 1 and explore initial
conditions
 Model 4 – Model 0 with
• Omit all age-1 survey data 1990 on
• Amin increased from 1 to 2;
• 3 or 4 blocks of survey selectivity; Non-parametric or double normal survey selectivity (4 submodels)

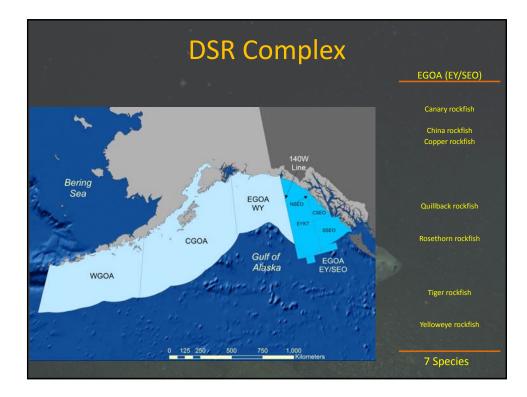




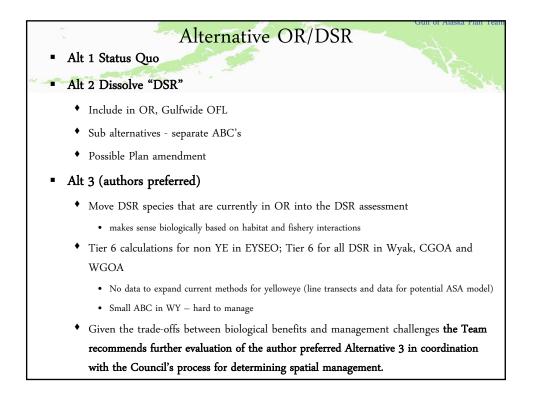








	OR Com	hlev	
	ON COM	JICA	
	WGOA & CGOA	EGOA (WY)	EGOA (EY/SEO)
	Blackgill rockfish Bocaccio Canary rockfish Chilipepper rockfish	Blackgill rockfish Bocaccio Canary rockfish Chilipepper rockfish	Blackgill rockfish Bocaccio Chilipepper rockfish
	China rockfish Copper rockfish	China rockfish Copper rockfish	
	Darkblotched rockfish Greenstriped rockfish Harlequin rockfish	Darkblotched rockfish Greenstriped rockfish Harlequin rockfish Northern rockfish	Darkblotched rockfish Greenstriped rockfish Harlequin rockfish Northern rockfish
Berng Boo Boo A	Pygmy rockfish Quillback rockfrish	Pygmy rockfish Quillback rockfrish Redbanded rockfish	Pygmy rockfish Redbanded rockfish
COM Guild	Redbanded rockfish Redstripe rockfish Rosethorn rockfish	Redstripe rockfish Rosethorn rockfish	Redstripe rockfish
and the second sec	Sharpchin rockfish Silvergray rockfish Splitnose rockfish	Sharpchin rockfish Silvergray rockfish Splitnose rockfish	Sharpchin rockfish Silvergray rockfish Splitnose rockfish
0 13 200 00 700 1.000 Common	Stripetail rockfish Tiger rockfish	Stripetail rockfish Tiger rockfish	Stripetail rockfish
	Vermilion rockfish Widow rockfish Yelloweye rockfish	Vermilion rockfish Widow rockfish Yelloweye rockfish	Vermilion rockfish Widow rockfish
	Yellowmouth rockfish Yellowtail rockfish	Yellowmouth rockfish Yellowtail rockfish	Yellowmouth rockfish Yellowtail rockfish
	24 Species	25 Species	18 Species



ABC/OFL values Based on 2014 assessment values										
		Other Rockfish Sub Group ABC			Demersal Shelf Rockfish Sub Group ABC					
		W/ Eastern GOA		W/	Eastern GOA			GOA-wide		
	Complex	CGOA	WY	EY/ SEO	CGOA	WY	EY/ SEO	ADFG	ABC	OFL
Alt - 1	OR	1,031	580	2,468					4,079	5,347
AIT - 1	DSR						225		225	361
Alt - 2a	OR	1,116	614	2,550				60	4,440	5,829
Alt - 2b	OR	961	585	2,489	155	29	161	60	4,440	5,829
Alt - 2c	OR	1,116	614	2,489			161	73	4,453	5,917
Alt – 3a	OR	961	585	2,489					4,035	5,289
	DSR				155	29	234		418	629

Rockfish modeling
General look age structured rockfish models
• Length stratified (survey design) vs assumption of random samples for growth
• Difference in growth is minor
• SD in mean length at age differed
• Lower SD if length stratified
• For November length stratified
• Plus age group problems with ageing error matrix
• Extend model ageing error further out improved fit to age comps in all rockfish models
• Extension of plus age group
• No definitive answer of what is best but clearly need to extend further than in current models
• The Team recommends moving forward with these three improvements and encourages
the authors to further examine choosing the appropriate plus age groups. To facilitate
model evaluation, the Team recommends the authors present the two alternative models
suggested (1- Updated growth and ageing error extension) and (2- extension of plus
group)
model evaluation, the Team recommends the authors present the two alternative models suggested (1- Updated growth and ageing error extension) and (2- extension of plus

