

February 2018

Programmatic Groundfish Management Policy Annual Review

Action

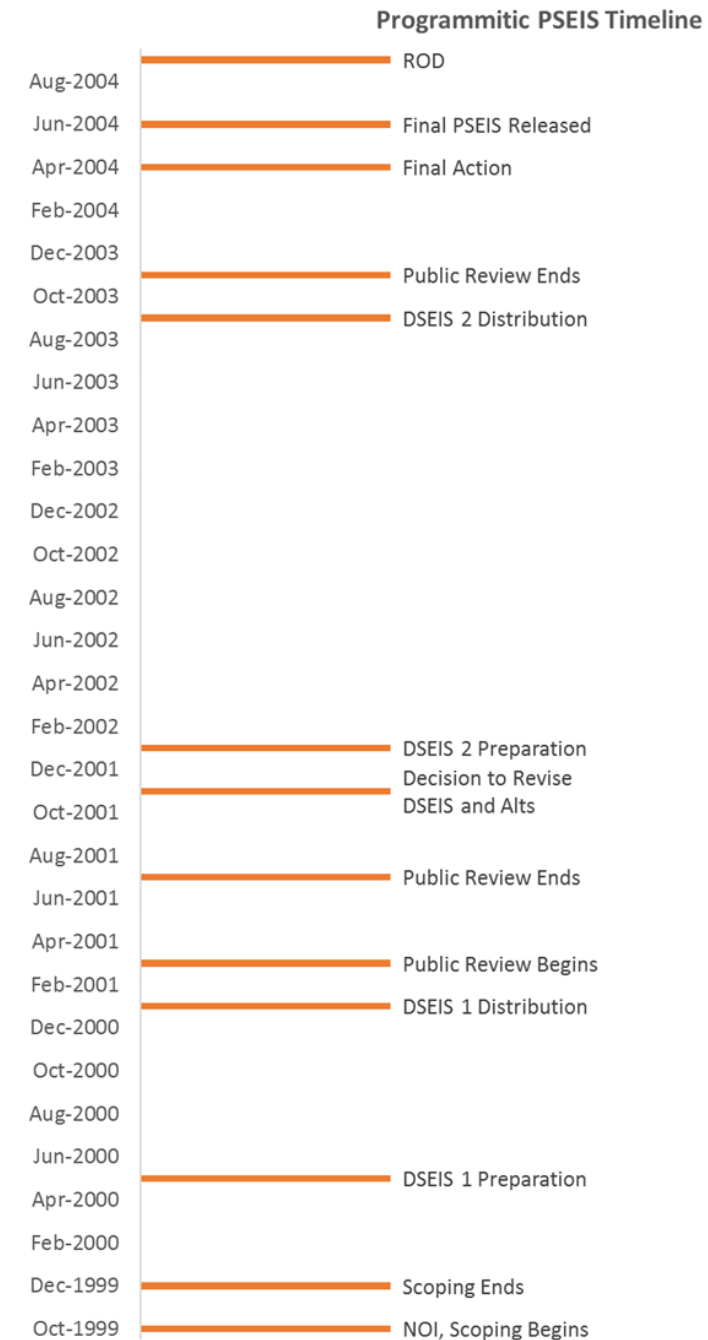
- Review:
 - Programmatic Groundfish Management Policy
 - Council actions relative to the Policy as conveyed in the Programmatic Workplan
- Consider:
 - Recommending modifications to the Management Objectives (noting this requires an FMP amendment)
 - Recommending additional Council actions to better fulfill the Management Policy

Background

- GOA and BSAI EISs (1979, 1981)
- SEIS (1998)
 - Litigation
 - Federal “Action”
 - TAC setting → FMP
- 2004 PSEIS
 - Programmatic review
 - Alternatives
 - Bookends

2004 PSEIS

- Programmatic review
- Alternatives
 - A management approach statement that described the goals, rationale and assumptions behind the alternative;
 - A set of management objectives that complemented and further refined the goals set forth in the management approach; and,
 - Except for the No Action Alternative, a pair of example FMP “bookends” that illustrated and framed the range of implementing management measures under that alternative.



PSEIS Preferred Alternative (Policy)

- **Annual Review:**

- “Adaptive management requires regular and periodic review. Objectives identified in this policy statement will be reviewed annually by the NPFMC. The NPFMC will also review, modify, eliminate, or consider new issues as appropriate to best carry out the goals and objectives of this management policy.”

Continued Applicability of PSEIS

- Council can choose to supplement anytime
- Supplement needed if ...
 - new information is sufficient to show a proposed or remaining action will affect the quality of the human environment in a significant manner or to a significant extent *not already considered*
- Duty to continually monitor

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General Priority	Management Objectives	Recent, Current, Ongoing, Pending Activity	2017					2018					Cumulative Management Actions/Outcomes
			F	A	J	O	D	F	A	J	O	D	
2. Promote Sustainable Fisheries and Communities	6. Promote conservation while providing for optimum yield in terms of the greatest overall benefit to the nation with particular reference to food production, and sustainable opportunities for recreational, subsistence, and commercial fishing participants and fishing communities.	These considerations are applied to all management actions.											These considerations are applied to all management actions.
	7. Promote management measures that, while meeting conservation objectives, are also designed to avoid significant disruption of existing social and economic structures.		●	●	●	●	●	●	●	●	●	●	
	8. Promote fair and equitable allocation of identified available resources in a manner such that no particular sector, group or entity acquires an excessive share of the privileges.												
	9. Promote increased safety at sea.	<div>USCG Reports</div> <div>NIOSH Reports</div>	●	●	●	●	●	●	●	●	●	●	
				●					●				

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3. Preserve Food Web (Ecosystem Based Fishery Management Approach)	12. Continue to protect the integrity of the food web through limits on harvest of forage species.	Ongoing - Herring PSC limits specified annually <div>Ongoing - Forage species included in Ecosystem SAFE</div>				●	●				●	●	<div>FMP amendments related to this goal statement</div> <table><tr><td>Pending</td><td>BSAI/GOA</td><td>2018</td><td>Moved squid the Ecosystem Component category</td></tr><tr><td>100/91</td><td>BSAI/GOA</td><td>2014</td><td>Included grenadiers in the Ecosystem Component category</td></tr><tr><td>81/74</td><td>BSAI/GOA</td><td>2004</td><td>Groundfish Mgmt Policy incorporated into FMPs</td></tr></table>	Pending	BSAI/GOA	2018	Moved squid the Ecosystem Component category	100/91	BSAI/GOA	2014	Included grenadiers in the Ecosystem Component category	81/74	BSAI/GOA	2004	Groundfish Mgmt Policy incorporated into FMPs
	Pending	BSAI/GOA	2018	Moved squid the Ecosystem Component category																					
	100/91	BSAI/GOA	2014	Included grenadiers in the Ecosystem Component category																					
	81/74	BSAI/GOA	2004	Groundfish Mgmt Policy incorporated into FMPs																					
	13. Incorporate ecosystem-based considerations into fishery management decisions, as appropriate.	2014 – Ecosystem Vision Statement																							
Ongoing - BS FEP			●	●	●	●	●	●	●	●	●														
Ongoing – Ecosystem SAFE					●	●				●	●														
<div>Ongoing - USFWS Reports</div> <div>GOA Pcod Assessment response</div> <div>Arctic exploratory fishing</div>		●	●	●	●	●	●	●	●	●	●														
					●		●																		

General Priority	Management Objectives	Recent, Current, Ongoing, Pending Activity	2017					2018					Cumulative Management Actions/Outcomes
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4. Manage Incidental Catch and Reduce Bycatch and Waste	16. Encourage research programs to evaluate current population estimates for non-target species with a view to setting appropriate bycatch limits, as information becomes available.	Ongoing - Salmon genetics work		●					●				Regulatory amendments related to this goal statement <ul style="list-style-type: none">● Annual specifications for setting harvest levels● Standardized Bycatch Reporting Methodology - Final Rule● LL2 endorsement modification Other management actions related to this goal statement <ul style="list-style-type: none">● Regular Center for International Experts reviews for stock assessments and harvest strategies● Ongoing work on accounting for uncertainty in control rules● Council policy and ongoing discussion of spatial management for stocks
		Ongoing – Included in research priorities				●				●			
		Ongoing - Use of Three River Index					●				●		
		Ongoing – Forage fish included in Ecosystem SAFE					●	●			●	●	
		Ongoing – Halibut Management Framework	●	●	●	●	●	●	●	●	●	●	
	17. Continue program to reduce discards by developing management measures that encourage the use of gear and fishing techniques that reduce bycatch which includes economic discards.	2010 - Partially addressed by arrowtooth MRA analyses for BSAI											
		Ongoing - Halibut management framework	●	●	●	●	●	●	●	●	●	●	
		Ongoing - Partially addressed in rockfish program	●	●	●	●	●	●	●	●	●	●	
		Ongoing - Partially addressed in Council’s Spatial Mgmt Policy	●	●	●	●	●	●	●	●	●	●	

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General Priority	Management Objectives	Recent, Current, Ongoing, Pending Activity	2017					2018					Cumulative Management Actions/Outcomes				
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4. Manage Incidental Catch and Reduce Bycatch and Waste (cont'd)	21. Reduce waste to biologically and socially acceptable levels.	2016 - Longline pot gear for sablefish												FMP amendments related to this goal statement			
		Ongoing – Halibut Management Framework	●	●	●	●	●	●	●	●	●	●		114/104	BSAI/GOA	2017	Integrate electronic monitoring into the North Pacific Observer Program
		Ongoing - bycatch management through PSC limits and other actions	●	●	●	●	●	●	●	●	●	●		112/102	BSAI/GOA	2016	Small CPs added to partial selection
		Pending - halibut retention in sablefish pots (BSAI) WGOA temporal patterns of halibut and Chinook PSC	111											111	BSAI	2016	Reduced PSC limits for halibut
			110				●			●				110	BSAI	2016	Established Chinook and chum salmon PSC avoidance measures
			101					●			●			101	GOA	2016	Longline pot gear for sablefish
			79								●			79	BSAI	2014	Established groundfish retention standard
			84/91					●			●			84/91	BSAI/GOA	2014	Established Bering Sea Chinook salmon bycatch restrictions
		2017 - Stranded Pcod discussion paper	94/89											94/89	BSAI/GOA	2012	Established trawl sweep elevation requirement in the flatfish fisheries
			89											89	GOA	2010	Established GOA area closures to reduce tanner crab bycatch
			93/97											93/97	BSAI/GOA	2008	Established PSC limits for Chinook salmon in the GOA trawl pollock and non-pollock fisheries
			95											95	GOA	2006	Reduced PSC limits for GOA halibut
			86/76											86/76	BSAI/GOA	2004	Restructured observer program to reduce statistical bias
	103											103	BSAI	2004	Prohibited Pacific cod fishing in Pribilof Islands Habitat Conservation Zone		

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5. Reduce and Avoid Impacts to Seabirds and Marine Mammals	22. Continue to cooperate with U.S. Fish and Wildlife Service (USFWS) to protect ESA-listed species, and if appropriate and practicable, other seabird species.	2008 - Avoidance measures in area 4E 2015 - Re-consultation for short-tailed albatross Ongoing USFWS Report at every Council meeting											<div>FMP amendments related to this goal statement</div> <table><tr><td>107</td><td>BSAI</td><td>2014</td><td colspan="4">Walrus protection and transit corridors around Round Island and Cape Pierce</td></tr><tr><td>20/25</td><td>BSAI/GOA</td><td>1991</td><td colspan="4"><ul style="list-style-type: none">year-round trawl closures in the GOA and BSAI area within 10 nm of key Steller sea lion rookeries;new GOA pollock management districts,limitation on pollock seasonal harvest allowances specified for these districts.</td></tr></table>	107	BSAI	2014	Walrus protection and transit corridors around Round Island and Cape Pierce				20/25	BSAI/GOA	1991	<ul style="list-style-type: none">year-round trawl closures in the GOA and BSAI area within 10 nm of key Steller sea lion rookeries;new GOA pollock management districts,limitation on pollock seasonal harvest allowances specified for these districts.			
	107	BSAI	2014	Walrus protection and transit corridors around Round Island and Cape Pierce																							
	20/25	BSAI/GOA	1991	<ul style="list-style-type: none">year-round trawl closures in the GOA and BSAI area within 10 nm of key Steller sea lion rookeries;new GOA pollock management districts,limitation on pollock seasonal harvest allowances specified for these districts.																							
	23. Maintain or adjust current protection measures as appropriate to avoid jeopardy of extinction or adverse modification to critical habitat for ESA-listed Steller sea lions.	2011 - SSL BiOp 2014 – Updated SSL BiOp Ongoing – SSL EIS regs in place Pending - SSL Critical Habitat proposed rule																									
24. Encourage programs to review status of endangered or threatened marine mammal stocks and fishing interactions and develop fishery management measures as appropriate.	Ongoing - Monitoring through the Protected Species Report <div>Request for NMFS to update Conservation Plan for Northern Fur Seals Marine mammal status update to SSC</div>											<div>Regulatory amendments related to this goal statement</div> <ul style="list-style-type: none">Revisions to seabird avoidance measures, including in Area 4ERevisions to Steller sea lion closures for pollock and cod fisheries in the GOARevisions to Steller sea lion protection measures for Atka mackerel, Pacific cod, and pollock fisheries in the Aleutian IslandsDesignation of critical habitat for Cook Inlet beluga whale															
25. Continue to cooperate with NMFS and USFWS to protect ESA-listed marine mammal species, and if appropriate and practicable, other marine mammal species.	Ongoing - Monitoring through the Protected Species Report											<div>Other management actions related to this goal statement</div> <ul style="list-style-type: none">ESA consultations on fishery impacts on listed seabirds and marine mammalsCouncil receives protected species report at each meeting, monitoring issues with seabirds and marine mammalsReconsideration of Steller sea lion closures in 2014 biological opinion and 2014 EIS															

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7. Promote Equitable and Efficient Use of Fishery Resources	33. Provide for adaptive management by periodically evaluating the effectiveness of rationalization programs and the allocation of access rights based on performance.	Ongoing – Program reviews for AM80, AFA, Halibut-Sablefish IFQ Pgm, others	•	•	•	•	•	•	•	•	•	•	FMP amendments related to this goal statement			
		Ongoing Co-op Reports	•	•	•	•	•	•	•	•	•	•	101	GOA	2016	Allow use of longline pots for sablefish
		2017 - Area 4 halibut IFQ leasing by CDQ groups											109	BSAI	2016	Allow for a small boat CDQ Pacific cod fishery
					•								113	BSAI	2016	AI Pcod catcher vessel fishery and shoreplant delivery requirement
													106	BSAI	2014	AFA vessel replacement
	34. Develop management measures that, when practicable, consider the efficient use of fishery resources taking into account the interest of harvesters, processors, and communities.	2008 - VMS exemption for dinglebars											102	BSAI	2014	Implement a CQE program for sablefish in the BSAI
		2008 - Trawl LLP recency in 2008											94,96	GOA	2013, 2014	Revisions to GOA CQE program entities, revise vessel use caps, allow purchase of small blocks
		2009 - GOA fixed gear latent licenses											99	BSAI	2013	BSAI freezer longline maximum length overall adjustment
		2009 - GOA Pcod sector allocations											85/83	BSAI/GOA	2011	Sector allocations for Pacific cod
		2010 - GOA rockfish program renewed											86	GOA	2010	Fixed gear endorsement in GOA
		2017 - WGOA pollock trip limits					•			•			78,85,88	GOA	2009, 2011	Rockfish Program revisions; new program authorized
													80,90,93,97	BSAI	2007-2012	Vessel replacement and cooperative revisions
		2017 - GOA Stranded Pcod					•			•			82,92 / 86	BSAI/GOA	2005-2010	Latent licenses rescinded
		Ongoing - MRA adjustments	•	•	•	•	•	•	•	•	•	•				Revise the BSAI FMP description of the CV
													62/62	BSAI/GOA	2009	Operational Area and remove sunset date for inshore/offshore sector allocations of pollock and Pacific cod in GOA
													62	GOA	2009	IFQ B quota shareholders can fish on any size vessel
													72	GOA	2008	IRIU rescinded in GOA for shallow water flatfish
													80	BSAI	2007	Sector allocations and cooperative formation for 3 flatfish species, POP, and Atka mackerel in BSAI
													68	GOA	2006	Cooperative program for rockfish in central GOA
													82	BSAI	2005	AI pollock to the Aleut Corporation

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8. Increase Alaska Native & Community Consultation	35. Continue to incorporate local and traditional knowledge in fishery management.	2007 - AI FEP Ongoing – BS FEP	•	•	•	•	•	•	•	•	•	•	<div>FMP amendments related to this goal statement</div> <table><tr><td>113</td><td>BSAI</td><td>2016</td><td colspan="4">Aleutian Islands Pacific cod catcher vessel fishery and shoreplant delivery requirement</td></tr><tr><td>109</td><td>BSAI</td><td>2016</td><td colspan="4">Allow for a small boat CDQ Pacific cod fishery</td></tr><tr><td>102</td><td>BSAI</td><td>2014</td><td colspan="4">Establish CQE program in Area 4B</td></tr><tr><td>96</td><td>GOA</td><td>2014</td><td colspan="4">Revise the sablefish IFQ program to allow GOA CQEs to transfer and hold small blocks of sablefish quota shares</td></tr><tr><td>94</td><td>GOA</td><td>2013</td><td colspan="4">Revise the vessel use caps applicable to sablefish quota share held by GOA CQEs</td></tr><tr><td>82</td><td>GOA</td><td>2009</td><td colspan="4">AI pollock to the Aleut Corporation</td></tr></table>	113	BSAI	2016	Aleutian Islands Pacific cod catcher vessel fishery and shoreplant delivery requirement				109	BSAI	2016	Allow for a small boat CDQ Pacific cod fishery				102	BSAI	2014	Establish CQE program in Area 4B				96	GOA	2014	Revise the sablefish IFQ program to allow GOA CQEs to transfer and hold small blocks of sablefish quota shares				94	GOA	2013	Revise the vessel use caps applicable to sablefish quota share held by GOA CQEs				82	GOA	2009	AI pollock to the Aleut Corporation			
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82	GOA	2009	AI pollock to the Aleut Corporation																																																				
	36. Consider ways to enhance collection of local and traditional knowledge from communities, and incorporate such knowledge in fishery management where appropriate.	<div>Bering Sea Elders</div> Pending - Subsistence module in BSFEP	•	•	•	•	•	•	•	•	•	•																																											
	37. Increase Alaska Native participation and consultation in fishery management.	2008 - Protocol approved <div>2017 - St Paul Island outreach</div> Ongoing - continued outreach on BSAI salmon bycatch Ongoing - Council Outreach Committee meets periodically	•	•	•	•	•	•	•	•	•	•	<div>Other management actions related to this goal statement</div> <ul style="list-style-type: none">• Community outreach and consultation policy adopted by Council in 2008• Community committee helps prioritize outreach (currently focused on BSAI salmon analyses)• Website redesigned to include a rural outreach component																																										

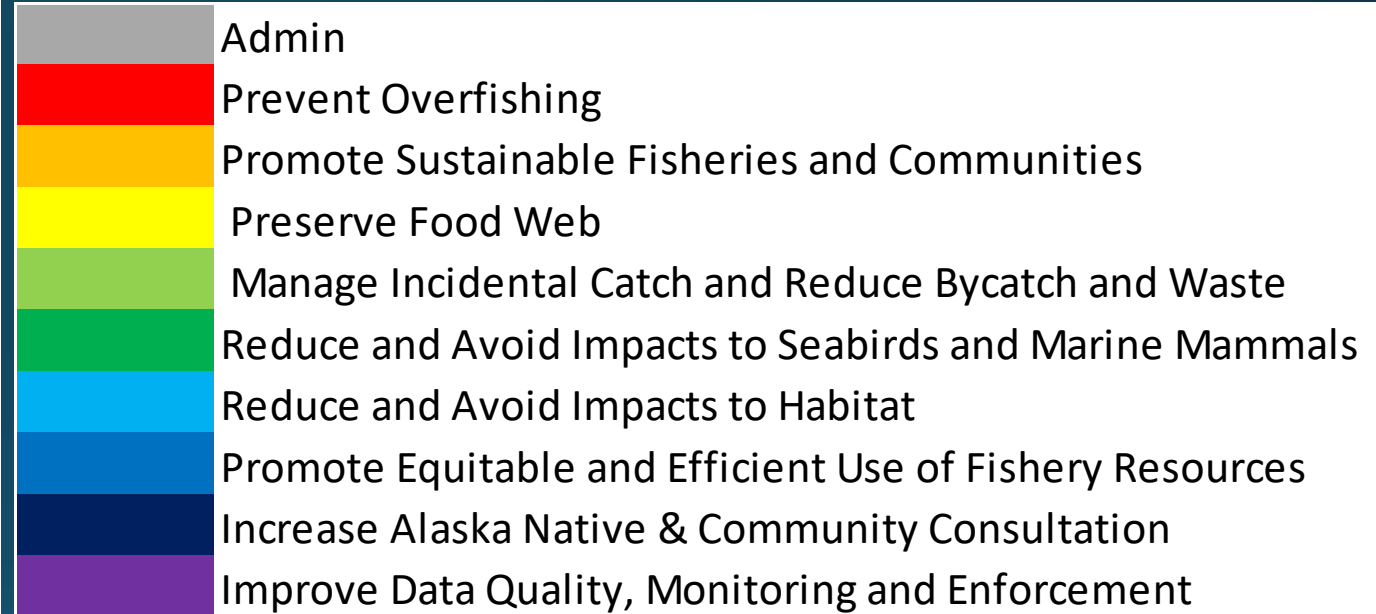
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9. Improve Data Quality, Monitoring and Enforcement (cont'd)	42. Encourage a coordinated, long-term ecosystem monitoring program to collect baseline information and compile existing information from a variety of ongoing research initiatives, subject to funding and staff availability.	Ongoing – Research priorities Ongoing - Ecosystem SAFE				•						•		•	•	FMP amendments related to this goal statement <table><tr><td>114/104</td><td>BSAI/GOA</td><td>2017</td><td>Integrate electronic monitoring into the North Pacific Observer Program</td></tr><tr><td>112/102</td><td>BSAI/GOA</td><td>2016</td><td>Change observer coverage category exemptions for small catcher processors</td></tr><tr><td>86/76</td><td>BSAI/GOA</td><td>2012</td><td>Observer program restructuring</td></tr><tr><td>73/77</td><td>BSAI/GOA</td><td>2008</td><td>Remove dark rockfish from FMP, allow management by State of Alaska</td></tr></table> Other management actions related to this goal statement <ul style="list-style-type: none">• Annual refinement of observer data through the deployment plan• Ongoing work to improve Catch Accounting System• Discussion paper on VMS use and requirements• Electronic monitoring is being developed as a tool for catch monitoring. Pre-implementation program approved for 2016.• Council encourages research through annual research priorities, cooperates with North Pacific Research Board• Council initiated and participates in Alaska Marine Ecosystem Forum, as well as maintaining other relationships with partner entities	114/104	BSAI/GOA	2017	Integrate electronic monitoring into the North Pacific Observer Program	112/102	BSAI/GOA	2016	Change observer coverage category exemptions for small catcher processors	86/76	BSAI/GOA	2012	Observer program restructuring	73/77	BSAI/GOA	2008	Remove dark rockfish from FMP, allow management by State of Alaska
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43. Cooperate with research institutions such as the North Pacific Research Board in identifying research needs to address pressing fishery issues.	Ongoing – Research priorities				•						•																					
44. Promote enhanced enforceability.	2015 Sablefish pot allowance																															
	Ongoing – Development of EM options	•	•	•	•	•	•	•	•	•	•	•	•	•																		
	Ongoing – Enforcement precepts, Enforcement committee activities	•	•	•	•	•	•	•	•	•	•	•	•	•																		
45. Continue to cooperate and coordinate management and enforcement programs with the Alaska Board of Fish, Alaska Department of Fish and Game, and Alaska Fish and Wildlife Protection, the U.S. Coast Guard, NMFS Enforcement, International Pacific Halibut Commission, Federal agencies, and other organizations to meet conservation requirements; promote economically healthy and sustainable fisheries and fishing communities; and maximize efficiencies in management and enforcement programs through continued consultation, coordination, and cooperation.	Ongoing - The Council maintains long history of cooperative management with all involved agencies and entities. The Council recognizes and works to achieve the shared goals of its many partners in stewardship of Alaska’s fisheries and its supporting ecosystems. Besides those partners listed in Objective 45, the Council maintains effective working relationships with the North Pacific Fishery Commission, Arctic Council, Bering Sea Fishery Advisory Body, Bering Sea Elders, among others.	•	•	•	•	•	•	•	•	•	•	•	•																			

B1 Steve Marx ODFW Appointment Letter
B1 Dan Lew GOA PT Nomination
B1 Amanda Bishop SSC Nomination
B1 CCC Ltr to Chris Oliver Re Appointment
B1 CCC Congressional Handout
B1 Calendar May/June 2020-2023
B1 Ocean Leadership Award Nominations
B1 St Paul Outreach Summary June 2017
B1 ICC Summary
B1 Flier: Halibut Mortality Presentation
B1 Hunt BS Ecosystem Abstract
B1 Salmon FMP Outreach Meeting Information
B1 CCC MSA Working Paper
B1 Oliver Senate Commerce Testimony
B1 Quinn Senate Commerce Testimony
B1 Council Comments on MSA - Draft May 2017
B1 H.R.200 Strengthening Fishing Communities
B1 Hull Senate Commerce Testimony
B1 Field Hearing Summary on MSA
B1 Council Panelists' Testimony (Hyperlink)
B1 September 12th Senate Testimony (Hyperlink)
B1 H.R. 2023 Modernizing Recreational Fisheries
B1 S.1520 Modernizing Recreational Fisheries
B1 S.1322 American Fisheries Committee
B1 H.R. 2079 Young Fishermens Act
B1 S.1323 Young Fishermens Act
B1 Section-by-Section MSA Discussion
B1 August Congressional Activities Report
B1 September Congressional Activities Report
B1 Legislative Committee Agenda
B2 PIBKC Stock Status
B2 ACLIM Summary
B2 Deep Sea Coral Report
B2 NMFS Management Report
B3 Decision in Oceana
B3 NOAA GC Designated Officials 2017
B3 Groundfish Forum v. Ross cross motion
B3 UCIDA Signed judgment order on remedy
B4 2017 Chinook Index Letter to NMFS
B4 ADFG Report
B5 USCG Report
B6 USFWS Report
B7 Northern Fur Seal Synthesis
C1 CHP Annual Renewal - Initial Review
C2 Mixing of Guided and Unguided Halibut .pdf
C3 2017 Summary-Intro Crab SAFE
C4-1 Groundfish Plan Team minutes Sept 2017
C5 Observer Issues Delivering to Tenders
C6 Observer Annual Deployment Plan 2018 draft
C7 GOA Rockfish Program Review Initial 9-15-17
C8 Salmon FMP Revisions (Expanded Discussion Paper)
C9 Halibut ABM Discussion Paper 9-8-17
D1 Halibut Deck Sorting EFP
D2 IFQ Committee Report
D3 Halibut Retention in Sablefish Pots Discussion Paper
E1 NPFMC Committees
E1 Observer Program related analytical tasks
E1 Ecosystem Committee Minutes 9-22-17
MOTION: Ecosystem Committee
MOTION: Stranded BSAI and GOA Pacific Cod
MOTION: Observer EM Letter

October 2017



Annual Review

- FMP mandate
 - Management Policy Objectives
- Optional
 - Council actions

Periodic Comprehensive Review

- Supplemental Information Report
 - 2012 - 2015
 - Triggers*
 - Determination

Council Actions Outside the Scope of the Groundfish FMPs




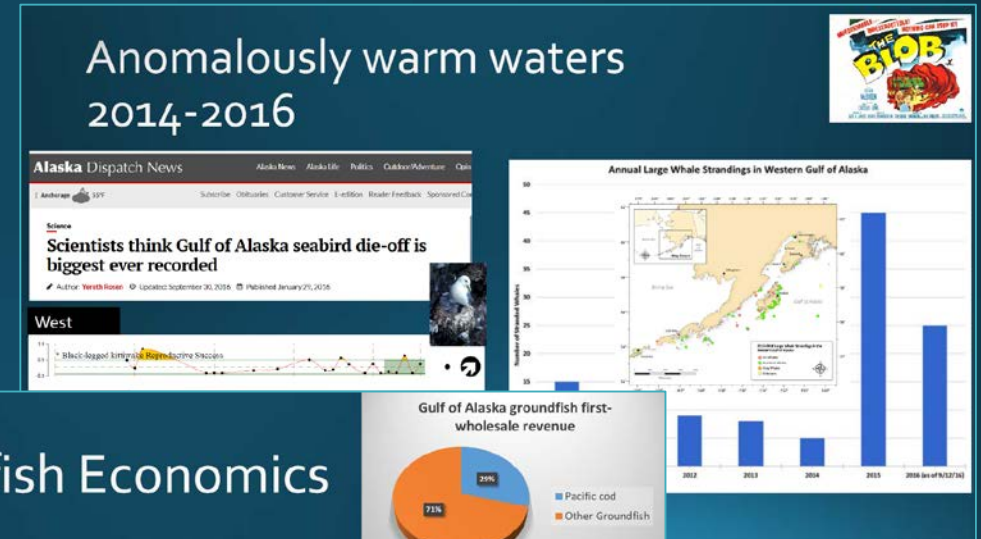

Photo: Mark Holsman

ACLIM: The Alaska Climate Integrated Modeling Project

Kirstin Holsman & Stephen Kasperski

ACLIM PIs:

Anne Hollowed ¹ , Kirstin Holsman ¹ , Alan Haynie ¹ , Stephen Kasperski ¹ , Jim Ianelli ¹ , Kerim Aydin ¹ , Wei Cheng ^{2,3} , Al Hermann ^{2,3} , Trond Kristiansen ⁴ , Andre Punt ⁵	<ol style="list-style-type: none">1. NOAA Fisheries, Alaska Fisheries Science Center2. NOAA Office of Oceanic and Atmospheric Research, Pacific Marine Environmental Laboratory3. Joint Institute for the Study of the Atmosphere and Ocean, University of Washington4. Institute of Marine Research, Bergen Norway5. School of Aquatic and Fisheries Science, University of Washington
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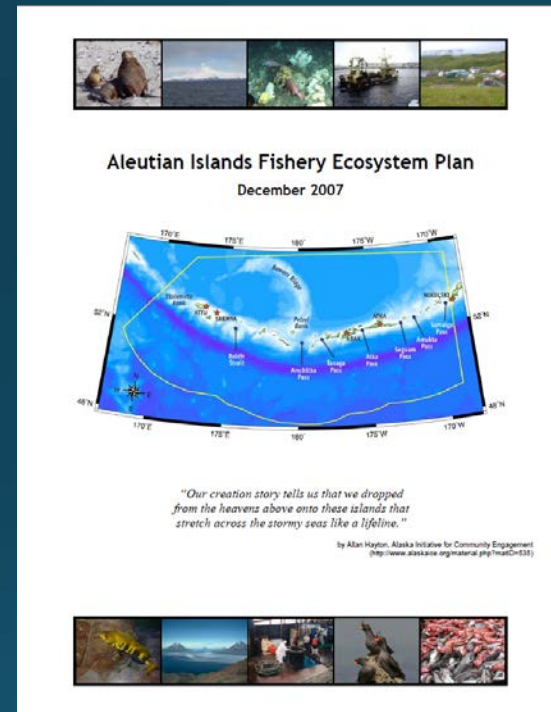


GOA Groundfish Economics

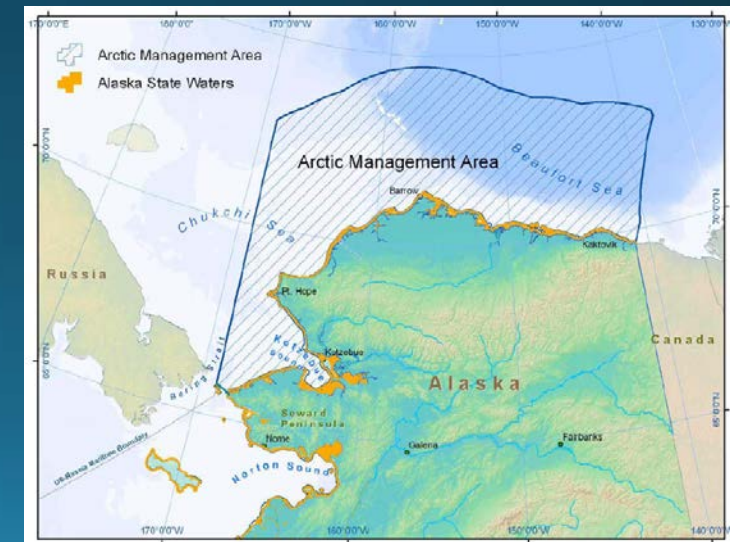
- The 2016 Gulf of Alaska groundfish fisheries generated \$354 million in first-wholesale revenue which represents 15% of the Alaska groundfish value and 30% of the value of all commercial fisheries in the GOA
- The GOA groundfish fisheries support jobs on over 650 vessels with approximately 23,000 crew weeks.
- The average annual first-wholesale revenue of P. cod over the past 10 years (2007-2016) is \$103 million.

Council Actions Outside the Scope of the Groundfish FMPs

- AIFEP
- BSFEP
- Arctic FMP



Comparison of FEP contents			
BS Core FEP draft outline (2015)	EPAP (1999)	Lenfest (2016)	NOAA's EBFM Roadmap (2016)
<ol style="list-style-type: none"> 1. Introduction 2. Purpose of FEP 3. Background / EBFM theory 4. Scope of FEP <ol style="list-style-type: none"> a. Geographic b. Jurisdictional c. Fisheries 5. Synthesis of ecosystem information 6. Ecosystem goals 7. BS FEP objectives 8. Framework for action modules <ol style="list-style-type: none"> a. Process b. List 9. Outreach / public involvement 10. Recurrence / feedback mechanism 	<ol style="list-style-type: none"> 1. Geographic extent of ecosystem 2. Food web model 3. Habitat needs of the significant food web 4. Total removals 5. How uncertainty is characterized 6. Ecosystem indicators 7. Long-term monitoring data 8. Assessment of ecosystem elements <ol style="list-style-type: none"> a. Ecological b. Human c. Institutional 	<ol style="list-style-type: none"> 1. a. system inventory and model b. indicators c. threats 2. a. vision statement b. strategic objectives c. assess risk to objectives d. prioritize objectives e. operational objectives 3. a. performance measures b. management strategies c. evaluate strategies d. select strategy 4. Implementation 5. Did we make it? 	<ol style="list-style-type: none"> 1. a. engage partners and stakeholders b. support FEPs 2. a. ecosystem science to understand interactions – biological, physical, social, habitat b. ecosystem status reports 3. a. identify ecosystem-level risk and vulnerability across LMRs b. identify pressures with most risk to communities and resources 4. a. analyze tradeoffs when maximizing benefits within ecosystem b. develop ecosystem MSE capability for providing management advice 5. a. monitor ecosystem reference points b. incorporate ecosystem considerations in assessments, control rules, fisheries management c. integrated advice for other (non-fishery) management 6. a. evaluate resilience b. evaluate community well-being



Action

- Review:
 - Programmatic Groundfish Management Policy
 - Council actions relative to the Policy as conveyed in the Programmatic Workplan
- Consider:
 - Recommending modifications to the Management Objectives (noting this requires an FMP amendment)
 - Recommending additional Council actions to better fulfill the Management Policy