

February 2019

Programmatic
Groundfish
Management
Policy
Annual Review

PSEIS Preferred Alternative (Policy)

- Page 2-4 in background doc
- Policy 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.”
- **Not in regulation**

Action

- Review:
 - Programmatic Groundfish Management Policy
 - Council actions in the Workplan
- Consider:
 - Modifications to the Management Objectives*
 - Additional Council actions

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.

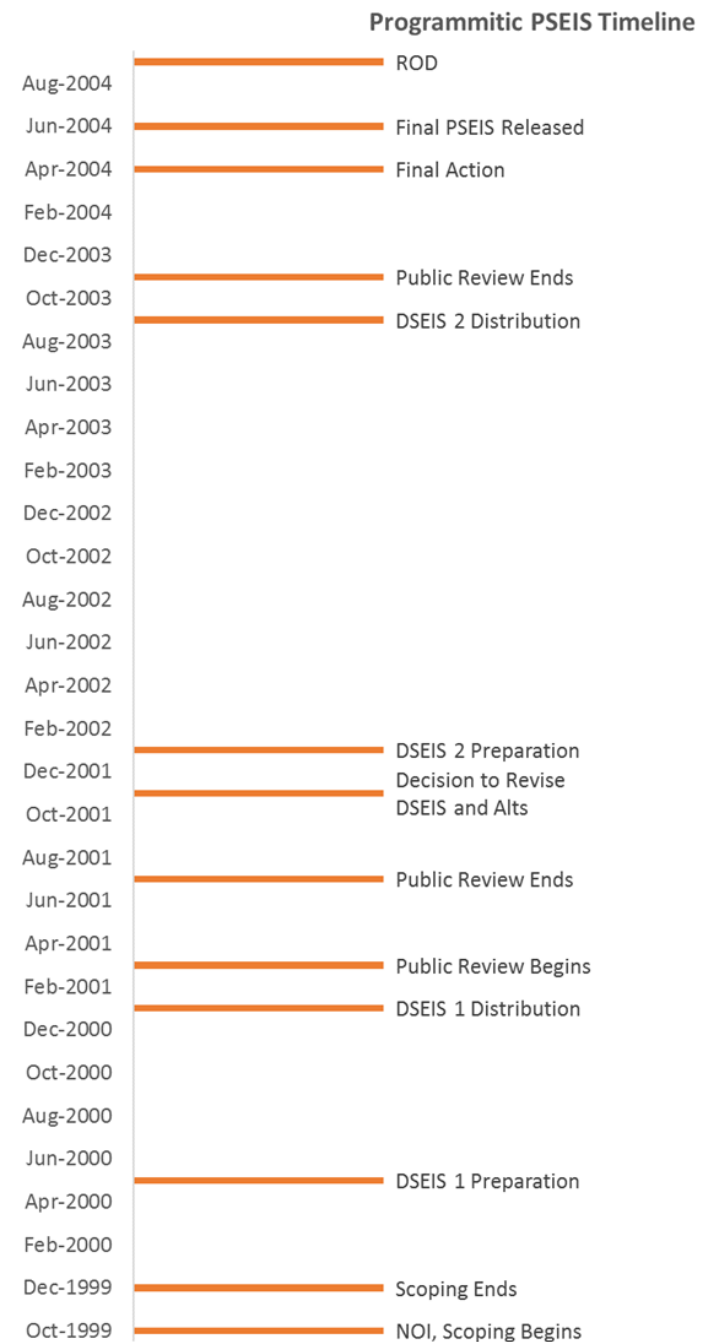


Figure 1
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Continued Applicability of PSEIS



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

General Priority	Management Objective	Council Actions
<p>1. Prevent Overfishing</p> <p><i>Maintain Sustainable Harvest</i></p>	<p>1. Adopt conservative harvest levels for multi-species and single species fisheries and specify optimum yield.</p> <p>2. Continue to use the optimum yield caps for the BSAI and GOA groundfish fisheries.</p> <p>3. Provide for adaptive management by continuing to specify optimum yield as a range.</p> <p>4. Provide for periodic reviews of the adequacy of F40 and adopt improvements, as appropriate.</p> <p>5. Continue to improve the management of species through species categories.</p>	<ul style="list-style-type: none"> • Proposed and Final Groundfish Specifications for 2019-2020 • CIE reviews for GOA P cod, BSAI yellowfin sole, northern rock sole, Alaska plaice • Squid to ecosystem component category (effective)
<p>2. Promote Sustainable Fisheries and Communities</p>	<p>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.</p> <p>7. Promote management measures that, while meeting conservation objectives, are also designed to avoid significant disruption of existing social and economic structures</p> <p>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.</p> <p>9. Promote increased safety at sea.</p>	<p>These considerations are applied in all Council management recommendations.</p> <p>See specific actions, also under Priorities 1,7 and 8.</p> <ul style="list-style-type: none"> • USCG Reports • NIOSH Report
<p>3. Preserve Food Web</p> <p><i>Ecosystem-based Fishery Management</i></p>	<p>10. Develop indices of ecosystem health as targets for management.</p> <p>11. Improve the procedure to adjust acceptable biological catch levels as necessary to account for uncertainty and ecosystem factors.</p> <p>12. Continue to protect the integrity of the food web through limits on harvest of forage species.</p> <p>13. Incorporate ecosystem-based considerations into fishery management decisions, as appropriate.</p>	<ul style="list-style-type: none"> • Ecosystem status reports for eastern Dering Sea, Aleutian Islands, and Gulf of Alaska • Adopted an ABC<maxABC process • For 2019, ABC<maxABC set for Sablefish, GOA Pcod, GOA pollock, EBS Pcod • Forage stocks evaluated in groundfish SAFE reports • Ecosystem workshop in Feb 2018 • Bering Sea Fishery Ecosystem Plan Initial and Final Reviews

Proposed and Final Groundfish Specifications

- CIE reviews
- Squid to EC

- USCG Reports
- NIOSH Report
- Ecosystem status reports
- ABC process
- 2019 Sablefish, GOA/EBS Pcod, GOA pollock

- Forage stocks in groundfish SAFEs
- Ecosystem workshop in Feb 2018
- BSFEP

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General Priority	Management Objective	Council Action
1. Prevent Overfishing	1. Adopt conservative harvest levels for multi-species and single-species fisheries and specify optimum yield.	• Proposed and Final Groundfish Specifications for 2019-2020
Maintain Sustainable Harvest	2. Continue to use the optimum yield caps for the BSAI and GOA groundfish fisheries.	
	3. Provide for adaptive management by continuing to specify optimum yield as a range.	
	4. Provide for periodic reviews of the adequacy of FMS and adapt improvements, as appropriate.	• CIE reviews for GOA, P cod, BEAD yellowfin sole, northern rock sole, Alaska pollock
	5. Continue to improve the management of species through species comparisons.	• Signal to ecosystem component category (Effective)
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 reasonable opportunities for recreational, subsistence, and commercial fishing participants and fishing communities.	These considerations are applied in all Council management recommendations.
	7. Promote management measures that, while meeting conservation objectives, are also designed to avoid significant disruption of existing social and economic structures.	See specific actions, also under Priorities 7 and 8.
	8. Promote fair and equitable allocation of identified available resources in a manner such that no particular sector, group or entity receives an excessive share of the privileges.	• USCG Reports
	9. Promote increased safety at sea.	• NIOSH Report
3. Preserve Food Web	10. Develop indices of ecosystem health as targets for management.	• Ecosystem status reports for eastern Bering Sea, Aleutian Islands, and Gulf of Alaska
Ecosystem-based Fishery Management	11. Improve the procedures to adjust acceptable biological catch levels as necessary to account for uncertainty and ecosystem.	• Adopted an ABC/MSA/ABC process
	12. Continue to protect the integrity of the food web through link in harvest of forage species.	• For 2019, ABC/MSA/ABC set for Sablefish, GOA, Pcod, GOA pollock, EBS Pcod action
	13. Incorporate ecosystem-based considerations into fishery management decisions, as appropriate.	• Forage stocks evaluated in groundfish SAFE reports
		• Ecosystem workshop in Feb 2018
		• Bering Sea Fishery Ecosystem Plan Initial and Final Reviews

General Priority	Management Objective	Council Action
1. Prevent Overfishing	1. Adopt conservative harvest levels for multi-species and single-species fisheries and specify optimum yield.	
<i>Maintain Sustainable Harvest</i>	2. Continue to use the optimum yield caps for the BSAI and GOA groundfish fisheries. 3. Provide for adaptive management by continuing to specify optimum yield as a range. 4. Provide for periodic reviews of the adequacy of FHS and adjust improvements, as appropriate. 5. Continue to improve the management of species through species comparisons.	<ul style="list-style-type: none"> Proposed and Final Groundfish Specifications for 2019-2020 CIE reviews for GOA P cod, BSAI yellowfin sole, northern rock sole, Alaska pollock Signal to ecosystem component category (Effective)
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 reasonable opportunities for recreational, subsistence, and commercial fishing participants and fishing communities. 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 receives an excessive share of the privileges. 9. Promote increased safety at sea.	<p>These considerations are applied in all Council management recommendations.</p> <p>See specific actions, also under Priorities 17 and 8.</p> <ul style="list-style-type: none"> USCG Reports NIOSH Report
3. Preserve Food Web	10. Develop indices of ecosystem health as targets for management. 11. Improve the procedures to adjust acceptable biological catch levels as necessary to account for uncertainty and ecosystem. 12. Continue to protect the integrity of the food web through link in harvest of forage species. 13. Incorporate ecosystem-based considerations into fishery management decisions, as appropriate.	<ul style="list-style-type: none"> Ecosystem status reports for eastern Bering Sea, Aleutian Islands, and Gulf of Alaska Adopted an ABC/omsABC process For 2019, ABC/omsABC set for Sablefish, GOA Pcod, GOA pollock, EBS Pcod action Forage stocks evaluated in groundfish SAFE reports Ecosystem workshop in Feb 2018 Bering Sea Fishery Ecosystem Plan Initial and Final Reviews

- Proposed and Final Groundfish Specifications
- CIE reviews
- Squid to EC
- USCG Reports
- NIOSH Report
- Ecosystem status reports
- ABC process
- 2019 Sablefish, GOA/EBS Pcod, GOA pollock
- Forage stocks in groundfish SAFEs
- Ecosystem workshop in Feb 2018
- BSFEP

Proposed and Final Groundfish Specifications

- CIE reviews

- Squid to EC

- USCG Reports

- NIOSH Report

- Ecosystem status reports

- ABC < maxABC process

- 2019 Sablefish, GOA/EBS Pcod, GOA pollock

- Forage stocks in groundfish SAFEs

- Ecosystem workshop in Feb 2018

- BSFEP

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1. Prevent Overfishing	1. Adopt conservative harvest levels for multi-species and single-species fisheries and specify optimum yield.	• Proposed and Final Groundfish Specifications for 2019-2020
Maintain Sustainable Harvest	2. Continue to use the optimum yield caps for the BSAI and GOA groundfish fisheries.	
	3. Provide for adaptive management by continuing to specify optimum yield as a range.	
	4. Provide for periodic reviews of the adequacy of FHW and adjust improvements, as appropriate.	• CIE reviews for GOA, P cod, BEAD yellowfin sole, northern rock sole, Alaska pollock
	5. Continue to improve the management of species through species comparisons.	• Signal to ecosystem component category (Effective)
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 reasonable opportunities for recreational, subsistence, and commercial fishing participants and fishing communities.	These considerations are applied in all Council management recommendations.
	7. Promote management measures that, while meeting conservation objectives, are also designed to avoid significant disruption of existing social and economic structures.	See specific actions, also under Priorities 7 and 8.
	8. Promote fair and equitable allocation of identified available resources in a manner such that no particular sector, group or entity receives an excessive share of the privileges.	
	9. Promote increased safety at sea.	• USCG Reports • NIOSH Report
3. Preserve Food Web	10. Develop indices of ecosystem health as targets for management.	• Ecosystem status reports for eastern Bering Sea, Aleutian Islands, and Gulf of Alaska
Ecosystem-based Fishery Management	11. Improve the procedures to adjust acceptable biological catch levels as necessary to account for uncertainty and ecosystem.	• Adopted an ABC<maxABC process • For 2019, ABC<maxABC set for Sablefish, GOA, Pcod, GOA pollock, EBS Pcod action.
	12. Continue to protect the integrity of the food web through link to harvest of forage species.	• Forage stocks evaluated in groundfish SAFE reports
	13. Incorporate ecosystem-based considerations into fishery management decisions, as appropriate.	• Ecosystem workshop in Feb 2018 • Bering Sea Fishery Ecosystem Plan Initial and Final Reviews

General Priority	Management Objective	Council Actions
<p>4. Manage Incidental Catch and Reduce Bycatch and Waste</p>	<p>14. Continue and improve current incidental catch and bycatch management program.</p>	<ul style="list-style-type: none"> • GOA CV Chinook PSC limit adjustments – Initial Review • Pollock IPA Reports on Salmon bycatch • Salmon genetics bycatch composition reports Salmon Adult Equivalency • Model review for 3-river index • Halibut Abundance-Based Management – discussion papers • Halibut retention in BSAI pots • Observer Annual Report for 2017 • 2019 Observer Program Annual Deployment Plan • Trawl EM 2019 Cooperative Research Plan • Fixed gear CV rockfish retention - initial review
	<p>15. Develop incentive programs for bycatch reduction including the development of mechanisms to facilitate the formation of bycatch pools, vessel bycatch allowances, or other bycatch incentive systems.</p>	<ul style="list-style-type: none"> • Halibut deck sorting EFP • Halibut Management Framework (ongoing)
	<p>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.</p>	<ul style="list-style-type: none"> • Salmon genetics bycatch composition reports 3-River Index • Forage stock evaluated in Groundfish SAFE reports (ongoing) • Halibut Management Framework (ongoing)
	<p>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.</p>	<ul style="list-style-type: none"> • Halibut retention in BSAI pots • Adak pollock/Pacific Ocean perch EFP
	<p>18. Continue to manage incidental catch and bycatch through seasonal distribution of total allowable catch and geographical gear restrictions.</p>	<ul style="list-style-type: none"> • Central GOA Tanner crab gear restrictions • Various area closures, seasons, and gear restrictions (ongoing)
	<p>19. Continue to account for bycatch mortality in total allowable catch accounting and improve the accuracy of mortality assessments for target, prohibited species catch, and noncommercial species.</p>	<ul style="list-style-type: none"> • 2019 Observer Program Annual Deployment Plan • Final Groundfish Specifications for 2019-2020
	<p>20. Control the bycatch of prohibited species through prohibited species catch limits or other appropriate measures.</p>	<ul style="list-style-type: none"> • GOA Tanner crab observer/effort data – discussion papers • Halibut Abundance-Based Management – discussion papers • Bering Sea Snow Crab PSC Limits – initial review
	<p>21. Reduce waste to biologically and socially acceptable levels.</p>	<ul style="list-style-type: none"> • Fixed gear CV rockfish retention – initial review • Halibut retention in BSAI pots • GOA pollock, cod seasonal/allocations – initial review • Sablefish discard allowance – discussion paper

- Adak pollock/Pacific Ocean perch EFP
- Bering Sea Snow Crab PSC Limits – initial review
- Central GOA Tanner crab gear restrictions
- Final Groundfish Specifications
- Fixed gear CV rockfish retention - initial review
- Forage stock evaluated in Groundfish SAFE reports
- GOA CV Chinook PSC limit adjustments – Initial Review
- GOA pollock, cod seasonal/allocations – initial review
- GOA Tanner crab observer/effort data – disc. papers
- Halibut Abundance-Based Management – disc. papers
- Halibut deck sorting EFP

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General Priority	Management Objective	Council Action
4. Manage Incidental Catch and Reduce Bycatch and Waste		<ul style="list-style-type: none"> • GOA CV Chinook PSC limit adjustments - Initial Review • Pollock IPA Reports on Salmon bycatch • Salmon genetics bycatch composition reports Salmon Adish Epiquidity • Model review for 3-year index • Halibut Abundance-Based Management - discussion papers • Halibut retention in BSM gear • Observer Annual Report for 2017 • 2019 Observer Program Annual Deployment Plan • Trovati EM 2019 Cooperative Research Plan • Fixed gear CV rockfish retention - initial review
	14. Continue and improve current incidental catch and bycatch management program.	<ul style="list-style-type: none"> • Halibut deck sorting EFP • Halibut Management Framework (ongoing)
	15. Develop incentive programs for bycatch reduction including the development of mechanisms to facilitate the formation of bycatch pools, vessel bycatch allowances, or other bycatch incentive systems.	<ul style="list-style-type: none"> • Halibut deck sorting EFP • Halibut Management Framework (ongoing)
	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.	<ul style="list-style-type: none"> • Salmon genetics bycatch composition report 3 River Index • Forage stock evaluated in Groundfish SAFE reports (ongoing) • Halibut Management Framework (ongoing)
	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, discard, and other management measures.	<ul style="list-style-type: none"> • Halibut retention in BSM gear • Adish pollock Pacific Ocean perch EFP
	18. Continue to manage incidental catch and bycatch through seasonal distribution of total allowable catch and geographical gear restrictions.	<ul style="list-style-type: none"> • Central GOA Tanner crab gear restrictions • Various area closures, seasons, and gear restrictions (ongoing)
	19. Continue to account for bycatch mortality in total allowable catch accounting and improve the accuracy of mortality assessments for target, prohibited species catch, and noncommercial species.	<ul style="list-style-type: none"> • 2019 Observer Program Annual Deployment Plan • Final Groundfish Specifications for 2019-2020
20. Control the bycatch of prohibited species through prohibited species catch limits or other appropriate measures.	<ul style="list-style-type: none"> • GOA Tanner crab observer/effort data - discussion papers • Halibut Abundance-Based Management - discussion papers • Bering Sea Snow Crab PSC Limits - initial review • Fixed gear CV rockfish retention - initial review 	
21. Reduce waste to biologically and socially acceptable levels.	<ul style="list-style-type: none"> • Halibut retention in BSM gear • GOA pollock, cod seasonal/allocations - initial review • Sublethal discard allowance - discussion paper 	

- Halibut Management Framework (ongoing)
- Halibut retention in BSAI pots
- Model review for 3-river index
- Observer Annual Report for 2017
- Observer Program Annual Deployment Plan
- Pollock IPA Reports on Salmon bycatch
- Sablefish discard allowance – discussion paper
- Salmon Adult Equivalency
- Salmon genetics bycatch composition reports
- Trawl EM 2019 Cooperative Research Plan
- Various area closures, seasons, and gear restrictions

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General Priority	Management Objective	Council Action
4. Manage Incidental Catch and Reduce Bycatch and Waste	14. Continue and improve current incidental catch and bycatch management program.	<ul style="list-style-type: none"> • GDA CV Chiral PSC limit adjustments – Initial Review • Pollock IPA Reports on Salmon bycatch • Salmon genetics bycatch composition reports Salmon Adult Equivalency • Model review for 3-river index • Halibut Abundance-Based Management – discussion papers • Halibut retention in BSAI pots • Observer Annual Report for 2017 • 2019 Observer Program Annual Deployment Plan • Trawl EM 2019 Cooperative Research Plan • Final gear CV trawlfish retention – initial review
	15. Develop incentive programs for bycatch reduction including the development of mechanisms to facilitate the formation of bycatch pods, vessel bycatch allowances, or other bycatch incentive systems.	<ul style="list-style-type: none"> • Halibut dock sorting EFP • Halibut Management Framework (ongoing)
	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.	<ul style="list-style-type: none"> • Salmon genetics bycatch composition report 3-River Index • Trawl stock evaluation for Groundfish SAEP reports (ongoing) • Halibut Management Framework (ongoing)
	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.	<ul style="list-style-type: none"> • Halibut retention in BSAI pots • Adult pollock Pacific Ocean perch EFP
	18. Continue to manage incidental catch and bycatch through seasonal distributions of area, abiotic catch, and geographical gear restrictions.	<ul style="list-style-type: none"> • Central GDA Tanner crab gear restrictions • Various area closures, seasons, and gear restrictions (ongoing)
	19. Continue to account for bycatch mortality in total allowable catch accounting and improve the accuracy of mortality assessments for target, prohibited species catch, and noncommercial species.	<ul style="list-style-type: none"> • 2019 Observer Program Annual Deployment Plan • Final Groundfish Specifications for 2019-2020
	20. Control the bycatch of prohibited species through prohibited species catch limits or other appropriate measures.	<ul style="list-style-type: none"> • GDA Tanner crab observational data – discussion papers • Halibut Abundance-Based Management – discussion papers • Bering Sea Snow Crab PSC Limits – initial review • Final gear CV trawlfish retention – initial review • Halibut retention in BSAI pots • GDA pollock, cod seasonal distribution – initial review • Sablefish discard allowance – discussion paper
21. Reduce waste to biologically and socially acceptable levels.		

General Priority	Management Objective	Council Actions
<p>5. Reduce and Avoid Impacts to Seabirds and Marine Mammals</p>	<p>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.</p>	<ul style="list-style-type: none"> • Seabird conservation working group update • Cooperation and protective measures (ongoing)
	<p>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.</p>	<ul style="list-style-type: none"> • SSC protection measures in regulation (ongoing)
	<p>24. Encourage programs to review status of endangered or threatened marine mammal stocks and fishing interactions and develop fishery management measures as appropriate.</p>	<ul style="list-style-type: none"> • Protected species reports, including annual status reports to SSC on marine mammals
	<p>25. Continue to cooperate with NMFS and USFWS to protect ESA-listed marine mammal species, and if appropriate and practicable, other marine mammal species.</p>	<ul style="list-style-type: none"> • Cooperation and protective measures (ongoing)
<p>6. Reduce and Avoid Impacts to Habitat</p>	<p>26. Review and evaluate efficacy of existing habitat protection measures for managed species.</p>	<ul style="list-style-type: none"> • EFH 5-year reviews, including fishing effects model, EFH descriptions
	<p>27. Identify and designate essential fish habitat and habitat areas of particular concern pursuant to Magnuson-Stevens Act rules, and mitigate fishery impacts as necessary and practicable to continue the sustainability of managed species.</p>	<ul style="list-style-type: none"> • EFH and mitigation measures, including area closures and gear restrictions (ongoing) • Council's EFH consultation policy (ongoing) and annual NMFS report
	<p>28. Develop a Marine Protected Area policy in coordination with national and state policies.</p>	<ul style="list-style-type: none"> • Actions are developed complementary to Federal MPA Center (ongoing)
	<p>29. Encourage development of a research program to identify regional baseline habitat information and mapping, subject to funding and staff availability.</p>	<ul style="list-style-type: none"> • Extensive mapping program through NMFS Habitat Division (ongoing) • Research priorities
	<p>30. Develop goals, objectives and criteria to evaluate the efficacy and suitable design of marine protected areas and no-take marine reserves as tools to maintain abundance, diversity, and productivity. Implement marine protected areas if and where appropriate.</p>	<ul style="list-style-type: none"> • Bering Sea Fishery Ecosystem Plan includes goals and objectives • Various area closures in place (ongoing)

- Seabird conservation working group update
- Cooperation and protective measures for seabirds
- SSL protection measures
- Protected species reports, annual status reports on marine mammals
- Cooperation and protective measures (ongoing)

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General Priority	Management Objective	Council Action
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.	<ul style="list-style-type: none"> • Seabird conservation working group update • Cooperation and protective measures (ongoing)
	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 lion.	<ul style="list-style-type: none"> • SSC protection measures in regulation (ongoing)
	24. Encourage programs to review status of endangered or threatened marine mammal stocks and fishing restrictions and develop fishery management measures as appropriate.	<ul style="list-style-type: none"> • Protected species reports, including annual status reports to SSC on marine mammals
6. Reduce and Avoid Impacts to Habitat	25. Continue to cooperate with NMFS and USFWS to protect ESA-listed marine mammal species, and if appropriate and practicable, other marine mammal species.	<ul style="list-style-type: none"> • Cooperation and protective measures (ongoing)
	26. Review and evaluate efficacy of existing habitat protection measures for managed species.	<ul style="list-style-type: none"> • EFH 5-year reviews, including fishing effects audit, EFH descriptions
	27. Identify and designate essential fish habitat and habitat areas of particular concern pursuant to Magnuson-Stevens Act rules, and mitigate fishery impacts as necessary and practicable to ensure the sustainability of managed species.	<ul style="list-style-type: none"> • EFH and mitigation measures, including area closures and gear restrictions (ongoing) • Council's EFH consultation policy (ongoing) and annual NMFS report
	28. Develop a Marine Protected Area policy in coordination with federal and state agencies.	<ul style="list-style-type: none"> • Actions are developed complementary to Federal MPA Center (ongoing)
6. Reduce and Avoid Impacts to Habitat	29. Encourage development of a research program to identify regional/facility habitat information and mapping, subject to funding and staff availability.	<ul style="list-style-type: none"> • Extensive mapping program through NMFS Habitat Division (ongoing) • Research priorities
	30. Develop goals, objectives and criteria to evaluate the efficacy and viability design of marine protected areas and no-take marine reserves as well as maintain abundance, diversity, and productivity. Implement marine protected areas if and where appropriate.	<ul style="list-style-type: none"> • Bering Sea Fishery Ecosystem Plan includes goals and objectives • Various area closures in place (ongoing)

- EFH 5-year reviews, including fishing effects model, EFH descriptions
- EFH and mitigation measures, including area closures and gear restrictions (ongoing)
- Council's EFH consultation policy (ongoing) and annual NMFS report
- Actions are developed complementary to Federal MPA Center (ongoing)
- Extensive mapping program through NMFS Habitat Division (ongoing)
- Research priorities
- Bering Sea Fishery Ecosystem Plan includes goals and objectives
- Various area closures in place (ongoing)

General Priority	Management Objective	Council Actions
<p>7. Promote Equitable and Efficient Use of Fishery Resources</p>	<p>31. Provide economic and community stability to harvesting and processing sectors through fair allocation of fishery resources.</p>	<ul style="list-style-type: none"> • Halibut Abundance-Based Management – discussion papers • WGOA pollock vessel limitations
	<p>32. Maintain the license limitation program, modified as necessary, and further decrease excess fishing capacity and overcapitalization by eliminating latent licenses and extending programs such as community or rights-based management to some or all groundfish fisheries.</p>	<ul style="list-style-type: none"> • BSAI Pcod trawl CV analysis – discussion paper • AI Pcod set-aside adjustments
	<p>33. Provide for adaptive management by periodically evaluating the effectiveness of rationalization programs and the allocation of access rights based on performance.</p>	<ul style="list-style-type: none"> • Small sideboards for AFA and Crab Rationalization programs • IFQ discussion papers • Co-op Reports (AFA, AM 80, GOA Rockfish, BSAI Crab) • Unguided charter halibut rental boats • BSAI Pcod sector allocation review workplan • CGOA Rockfish Program reauthorization – discussion paper
	<p>34. Develop management measures that, when practicable, consider the efficient use of fishery resources taking into account the interest of harvesters, processors, and communities.</p>	<ul style="list-style-type: none"> • Halibut retention in BSAI pots • GOA Pollock/Pcod seasonal allocations – initial review • Small sablefish retention – discussion paper
<p>8. Increase Alaska Native & Community Consultation</p>	<p>35. Continue to incorporate local and traditional knowledge in fishery management.</p>	<ul style="list-style-type: none"> • Social Science Planning Team report • Bering Sea Fishery Ecosystem Plan
	<p>36. Consider ways to enhance collection of local and traditional knowledge from communities, and incorporate such knowledge in fishery management where appropriate.</p>	
	<p>37. Increase Alaska Native participation and consultation in fishery management.</p>	<ul style="list-style-type: none"> • Ongoing outreach on BSAI salmon bycatch • Establishment of Community Engagement Committee • Ecosystem workshop in February 2018

General Priority	Management Objective	Council Action
7. Promote Equitable and Efficient Use of Fishery Resources	E1. Provide economic and community stability in harvesting and processing sectors through fair allocation of fishery resources.	•Halibut Abundance-Based Management – discussion paper •WGOA pollock vessel limitations
	E2. Maintain the license limitation program, modified as necessary and further adjusted to meet fishing capacity and over-quota by eliminating lateral licenses and extending programs such as community or rights-based management to some or all groundfish fisheries.	•BSAI Pcod trawl CV analysis – discussion paper •AIP cod set-aside adjustments
	E3. Provide for adaptive management by periodically evaluating the effectiveness of rationalization programs and the allocation of access rights based on performance.	•Small sideboards for AFA and Crab Rationalization programs •IFQ discussion papers •Co-op Reports (AFA, AM 80, GOA Rockfish, BSAI Crab) •Unguided charter halibut rental boats •BSAI Pcod sector allocation review workplan •CGOA Rockfish Program reauthorization – discussion paper
8. Increase Alaska Native & Community Consultation	H4. Develop management measures that, when practicable, consider the efficient use of fishery resources taking into account the interests of harvesters, processors, and communities.	•Halibut retention in BSAI pots •GOA Pollock/Pcod seasonal allocations – initial review •Small sablefish retention – discussion paper
	E5. Continue to incorporate local and traditional knowledge in fishery management.	•Social Science Planning Team report
	E6. Consider ways to enhance collection of local and traditional knowledge from communities, and incorporate such knowledge in fishery management where appropriate.	•Bering Sea Fishery Ecosystem Plan
	E7. Increase Alaska Native participation and consultation in fishery management.	•Ongoing outreach on BSAI salmon bycatch •Establishment of Community Engagement Committee •Ecosystem workshop in February 2018

- Halibut Abundance-Based Management – discussion papers
- WGOA pollock vessel limitations
- BSAI Pcod trawl CV analysis – discussion paper
- AI Pcod set-aside adjustments
- Small sideboards for AFA and Crab Rationalization programs
- IFQ discussion papers
- Co-op Reports (AFA, AM 80, GOA Rockfish, BSAI Crab)
- Unguided charter halibut rental boats
- BSAI Pcod sector allocation review workplan
- CGOA Rockfish Program reauthorization – discussion paper
- Halibut retention in BSAI pots
- GOA Pollock/Pcod seasonal allocations – initial review
- Small sablefish retention – discussion paper

- Social Science Planning Team report
- Bering Sea Fishery Ecosystem Plan
- Ongoing outreach on BSAI salmon bycatch
- Establishment of Community Engagement Committee
- Ecosystem workshop in February 2018

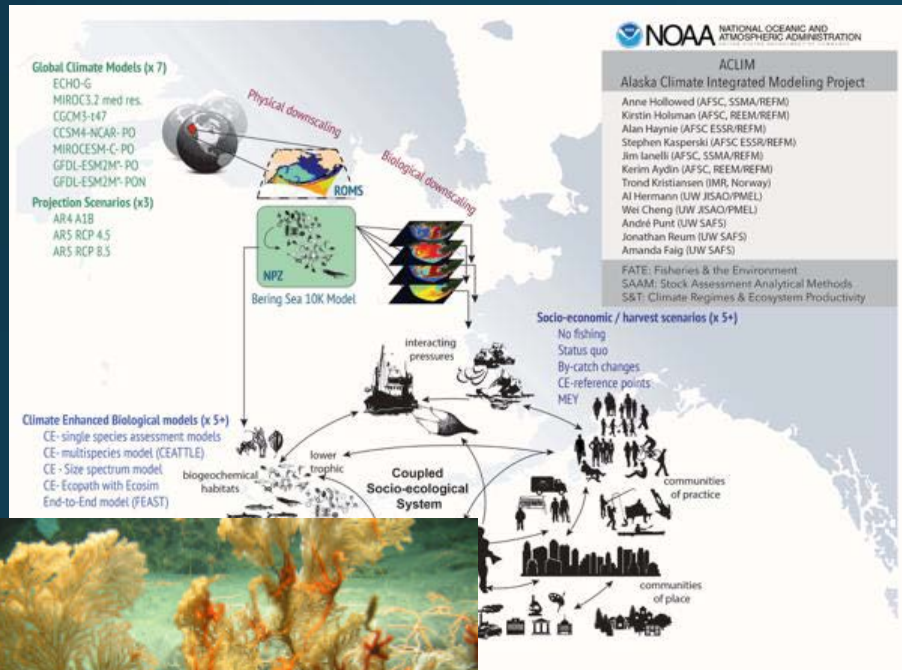
General Priority	Management Objective	Council Actions
<p>9. Improve Data Quality, Monitoring and Enforcement</p>	<p>38. Increase the utility of groundfish fishery observer data for the conservation and management of living marine resources.</p>	<ul style="list-style-type: none"> • Observer Annual Report for 2017 • 2019 Observer Program Annual Deployment Plan – (includes fixed gear EM) • Trawl EM 2019 Cooperative Research Plan • Observer tenders – update
	<p>39. Develop funding mechanisms that achieve equitable costs to the industry for implementation of the North Pacific Groundfish Observer Program.</p>	<ul style="list-style-type: none"> • Observer Fee Analysis – under development
	<p>40. Improve community and regional economic impact costs and benefits through increased data reporting requirements.</p>	<ul style="list-style-type: none"> • Economic Data Reports (ongoing) • Economic SAFE Reports (ongoing)
	<p>41. Increase the quality of monitoring and enforcement data through improved technology.</p>	<ul style="list-style-type: none"> • EM implementation (ongoing)
	<p>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.</p>	<ul style="list-style-type: none"> • Research priorities • Ecosystem SAFE • Bering Sea Fishery Ecosystem Plan
	<p>43. Cooperate with research institutions such as the North Pacific Research Board in identifying research needs to address pressing fishery issues.</p>	<ul style="list-style-type: none"> • Research priorities
	<p>44. Promote enhanced enforceability.</p>	<ul style="list-style-type: none"> • Enforcement precepts (ongoing) • Mixing of guided/unguided charter halibut
	<p>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.</p>	<ul style="list-style-type: none"> • 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 international, national, and Alaska organizations.

- Bering Sea Fishery Ecosystem Plan
- Economic Data Reports (ongoing)
- Economic SAFE Reports (ongoing)
- EM implementation (ongoing)
- Enforcement precepts (ongoing)
- Mixing of guided/unguided charter halibut
- Observer Annual Report for 2017
- Observer Fee Analysis – under development
- Observer Program ADP – (includes fixed gear EM)
- Observer tenders – update
- Research priorities
- Trawl EM 2019 Cooperative Research Plan

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General Priority	Management Objective	Council Action
9. Improve Data Quality Monitoring and Enforcement	38. Increase the utility of groundfish fishery observer data for the conservation and management of Bering marine resources.	<ul style="list-style-type: none"> • Observer Annual Report for 2017 • 2019 Observer Program Annual Deployment Plan - (includes fixed gear EM) • Trawl EM 2019 Cooperative Research Plan • Observer tenders – update
	39. Develop funding mechanisms that achieve equitable costs to the industry for implementation of the North Pacific Groundfish Observer Program.	<ul style="list-style-type: none"> • Observer Fee Analysis – under development
	40. Improve community and regional economic impact costs and benefits through increased data reporting requirements.	<ul style="list-style-type: none"> • Economic Data Report (ongoing) • Economic SAFE Report (ongoing)
	41. Increase the quality of monitoring and enforcement data through improved technology.	<ul style="list-style-type: none"> • EM implementation (ongoing)
	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.	<ul style="list-style-type: none"> • Research priorities • Ecosystem SAFE • Bering Sea Fishery Ecosystem Plan
	43. Cooperate with research institutions such as the North Pacific Research Board in identifying research needs to address pressing fishery issues.	<ul style="list-style-type: none"> • Research priorities
	44. Promote enhanced enforceability.	<ul style="list-style-type: none"> • Enforcement precepts (ongoing) • Mixing of guided/unguided charter halibut
	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 effectiveness in management and enforcement programs through continued consultation, coordination, and cooperation.	<ul style="list-style-type: none"> • The Council maintains long history of cooperative management with all involved agencies and entities. The Council recognizes and works to achieve the shared goal 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 international, national, and Alaska organizations.

Council Actions Outside the Scope of the Groundfish FMPs



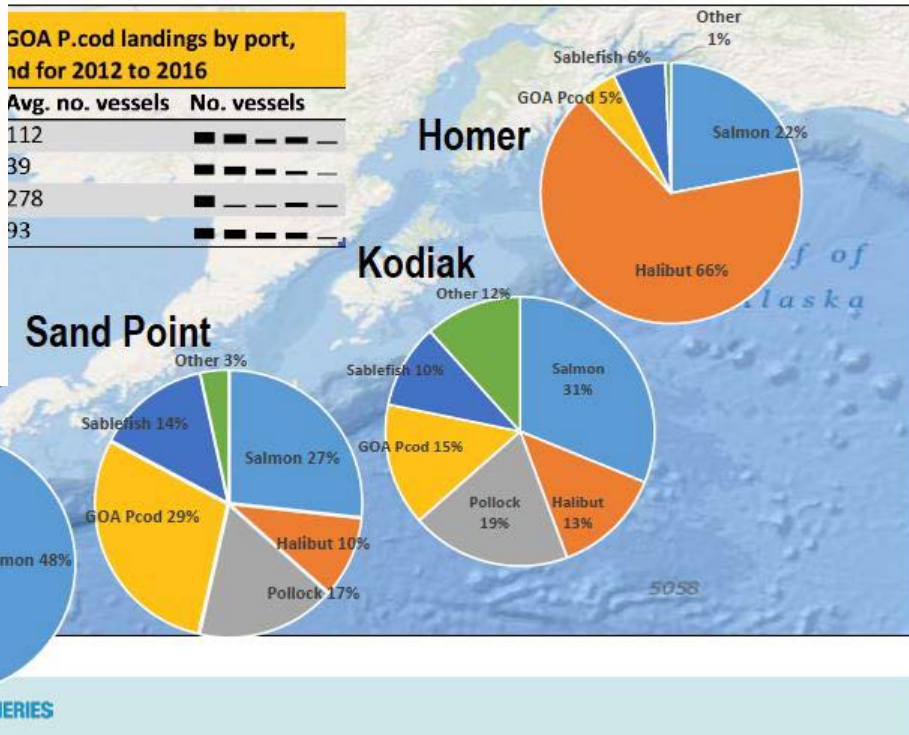
NOAA FISHERIES SERVICE

PLACE-BASED
FOUR Large Marine Ecosystems -
FOUR Integrated Ecosystem Assessment Programs

Eastern Bering Sea (EBS)

High Arctic

Gulf of Alaska (GOA)

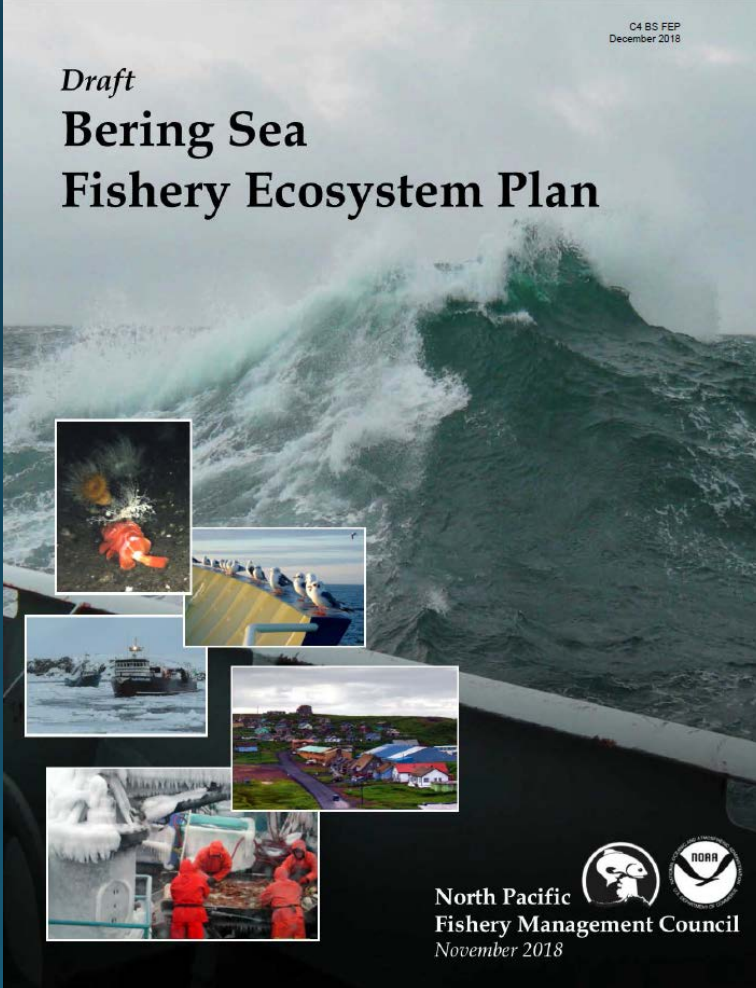


Council Actions Outside the Scope of the Groundfish FMPs



- BSFEP !!!
- AIFEP
- Arctic FMP

C4 BS FEP
December 2013

Draft Bering Sea Fishery Ecosystem Plan

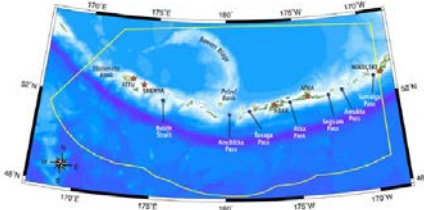


North Pacific
Fishery Management Council
November 2018



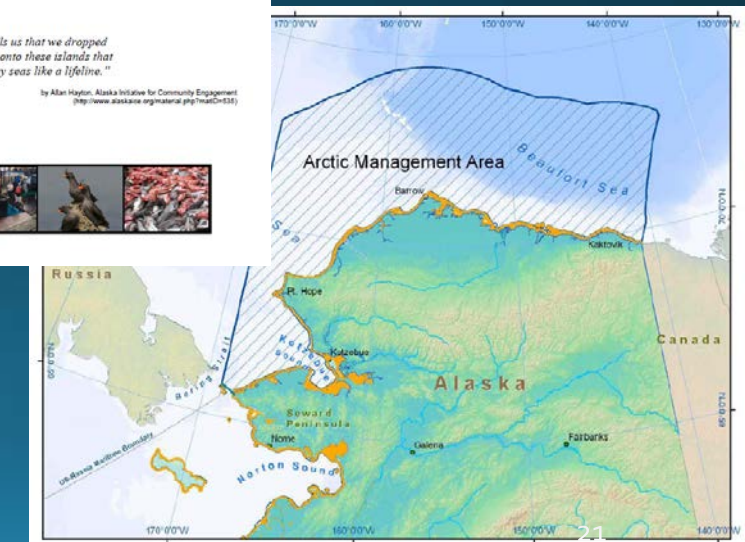

Aleutian Islands Fishery Ecosystem Plan

December 2007



"Our creation story tells us that we dropped from the heavens above onto these islands that stretch across the stormy seas like a lifeline."

by Alan Hayton, Alaska Initiative for Community Engagement
(<http://www.akstate.org/material.php?matID=133>)



Next Steps

- Review Frequency
 - Ongoing
 - Workplan updates in E-1
 - Comprehensive
 - 2-3 years
 - “Life” of Council actions
 - Actions, not issues
 - Activity outside Groundfish FMPs

- Adak pollock/Pacific Ocean perch EFP
- Bering Sea Snow Crab PSC Limits – initial review
- **Central GOA Tanner crab gear restrictions**
- Final Groundfish Specifications
- Fixed gear CV rockfish retention - initial review
- Forage stock evaluated in Groundfish SAFE reports
- GOA CV Chinook PSC limit adjustments – Initial Review
- GOA pollock, cod seasonal/allocations – initial review
- GOA Tanner crab observer/effort data – disc. papers
- Halibut Abundance-Based Management – disc. papers
- Halibut deck sorting EFP

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General Priority	Management Objective	Council Action
4. Manage Incidental Catch and Reduce Bycatch and Waste		<ul style="list-style-type: none"> • GOA CV Chinook PSC limit adjustments - Initial Review • Publish IPA Reports on Salmon bycatch • Submit genetics bycatch composition reports Salmon Adish Epiquidary • Model review for 3-year index • Halibut Abundance-Based Management - discussion papers • Halibut retention in BSM gear • Observer Annual Report for 2017 • 2017 Observer Program Annual Deployment Plan • Final EM 2010 Cooperative Research Plan • Final gear CV rockfish retention - initial review
	14. Continue and improve current incidental catch and bycatch management program.	<ul style="list-style-type: none"> • Halibut deck sorting EFP • Halibut Management Framework (ongoing)
	15. Develop incentive programs for bycatch reduction including the development of mechanisms to facilitate the formation of bycatch pools, vessel bycatch allowances, or other bycatch incentive systems.	<ul style="list-style-type: none"> • Submit genetics bycatch composition reports 3-River Index • Forage stock evaluated in Groundfish SAFE reports (ongoing) • Halibut Management Framework (ongoing)
	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.	<ul style="list-style-type: none"> • Halibut retention in BSM gear • Adish pollock/Pacific Ocean perch EFP
	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, discard, and other appropriate measures.	<ul style="list-style-type: none"> • Central GOA Tanner crab gear restrictions • Varies area closures, seasons, and gear restrictions (ongoing)
	18. Continue to manage incidental catch and bycatch through seasonal distribution of total allowable catch and geographic gear restrictions.	<ul style="list-style-type: none"> • 2017 Observer Program Annual Deployment Plan • Final Groundfish Specifications for 2019-2020
	19. Continue to account for bycatch mortality in total allowable catch accounting and improve the accuracy of mortality assessments for target, prohibited species catch, and noncommercial species.	<ul style="list-style-type: none"> • GOA Tanner crab observer/effort data - discussion papers • Halibut Abundance-Based Management - discussion papers • Bering Sea Snow Crab PSC Limits - initial review • Fixed gear CV rockfish retention - initial review • Halibut retention in BSM gear • GOA pollock, cod seasonal/allocations - initial review • Sublethal discard allowance - discussion paper
20. Control the bycatch of prohibited species through prohibited species catch limits or other appropriate measures.		
21. Reduce waste to biologically and socially acceptable levels.		

General Priority	Management Objective	Council Action
4. Manage Incidental Catch and Reduce Bycatch and Waste		<ul style="list-style-type: none"> • GDA CV Check PSC list adjustments - Initial Review • Pollock IPA Reports on Salmon bycatch • Salmon genetics bycatch composition reports Salmon Adult Equivalency • Model review for 3-river index • Halibut Abundance-Based Management - discussion papers • Halibut retention in BSAI pots • Observer Annual Report for 2017 • 2019 Observer Program Annual Deployment Plan • Trawl EM 2019 Cooperative Research Plan • Final gear CV on/leak occurrence - initial review
	14. Continue and improve current incidental catch and bycatch management program.	<ul style="list-style-type: none"> • Halibut dock sorting EFP • Halibut Management Framework (ongoing)
	15. Develop incentive programs for bycatch reduction including the development of mechanisms to facilitate the formation of bycatch pods, vessel bycatch allowances, or other bycatch incentive systems.	<ul style="list-style-type: none"> • Salmon genetics bycatch composition reports 3-River Index • Foreign stock evaluation for Groundfish SAFF reports (ongoing) • Halibut Management Framework (ongoing)
	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.	<ul style="list-style-type: none"> • Halibut retention in BSAI pots • Adult pollock Pacific Ocean perch EFP
	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.	<ul style="list-style-type: none"> • Central GDA Tanner crab gear restrictions • Various area closures, seasons, and gear restrictions (ongoing)
	18. Continue to manage incidental catch and bycatch through seasonal distribution of area, abatement, catch, and geographical gear restrictions.	<ul style="list-style-type: none"> • 2019 Observer Program Annual Deployment Plan • Final Groundfish Specifications for 2019-2020
	19. Continue to account for bycatch mortality in total allowable catch accounting and improve the accuracy of mortality assessments for target, prohibited species catch, and noncommercial species.	<ul style="list-style-type: none"> • GDA Tanner crab observer/observer data - discussion papers • Halibut Abundance-Based Management - discussion papers • Bering Sea Snow Crab PSC Limits - initial review • Final gear CV on/leak occurrence - initial review • Halibut retention in BSAI pots • GDA pollock, cod seasonal distribution - initial review • Sublethal discard allowance - discussion paper
20. Control the bycatch of prohibited species through prohibited species catch limits or other appropriate measures.		
21. Reduce waste to biologically and socially acceptable levels.		

- Halibut Management Framework (ongoing)
- Halibut retention in BSAI pots
- Model review for 3-river index
- Observer Annual Report for 2017
- Observer Program Annual Deployment Plan
- Pollock IPA Reports on Salmon bycatch
- Sablefish discard allowance – discussion paper
- Salmon Adult Equivalency
- Salmon genetics bycatch composition reports
- Trawl EM 2019 Cooperative Research Plan
- Various area closures, seasons, and gear restrictions

Next Steps

- Review Frequency
 - Ongoing
 - Workplan updates in E-1
 - Comprehensive
 - 2-3 years
 - “Life” of Council actions
 - Actions, not issues
 - Activity outside Groundfish FMPs

Council Action

- Review:
 - Programmatic Groundfish Mgmt Policy
 - Council actions
- Consider:
 - Modifications to the Mgmt Objectives*
 - Additional Council actions