Activity Number		Status as of September 30, 2008	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
Monit	oring						
1	special data collections outside standard observer protocols to	Observers instructed to sample for seabird bycatch projects as requested by Alask Fisheries Science Center (AFSC) staff.	include sampling for salmon genetics, quantifying seabird mortality caused by	annual basis - determination of projects for 2010 will be provided by Jan 1 of that year.	Generation and provision of data related to bycatch of birds, fish, and mammals as requested by AFSC staff.	collections will be	Solicitation of proposals mid-year. 2) Annual implementation of approved proposals on January 1.
2		1) Conducted field research under NPRB grant with the International Pacific Halibut Commission (IPHC) in Gulf of Alaska (GOA) and Bering Sea Aleutian Islands (BSAI). Research was a field test of electronic monitoring (EM) (video) in an active halibut fishery. 2) Participating in cooperative research with industry to assess applicability of video in monitoring quality of halibut bycatch in trawl rockfish fishery in GOA. 3) Develop draft manuscript reporting past studies assessing observer sampling and video approaches to monitoring.	applicability of video monitoring. 2) Work with the Alaska Regional Office (AKR) and fishing industry to complete Pase-2 report. 3) Present report on EM Workshop at the International Fisheries Observer and Monitoring Conference, July	Publication of study results. 2) Continued collaboration as necessary. 3) Continued investigation as required.	Evaluation of effectiveness of EM relative to standard observer coverage in monitoring bycatch.	research. 2) Coordination with AKR and industry. 3) General supervision.	Final report to be submitted by January 2010. Phase-1 Report presented to the North Pacific Fishery Management Council (Council) in fall of 2008. 3) EM Workshop was held at the AFSC in July 2008, proceedings are available online at http://www.fakr.noaa.gov/npfmc/misc_pub/EMproceedings.pdf.
3	Develop approaches for expanding observer deployments to meet additional agency information needs for catch and bycatch estimation.	Submitted request for 2010 National funds to support implementation of annual catch limits. 2) Increased observer coverage requirements on a section of the fleet to meet Regional information needs.	None planned	None planned	Increased observer coverage for BSAI flatfish (Amendment 80) and eastern GOA rockfish (Rockfish Pilot Project) fisheries.	To be determined. 2) Monitoring compliance with regulatory requirements.	New requirements for increased observer coverage in two fisheries (Amendment 80 and GOA Rockfish Pilot Program) are met by industry.
4	Revise observer data collection protocols to meet evolving needs and to improve bycatch data quality.	Data collection protocols for 2008 were revised to better meet end user needs. Revised protocols are included in observer training.	Continue revisions based on evolving needs.	Continue revisions based on evolving needs.	Improve data collection to address bycatch estimation needs.	New data collections and protocols implemented.	1 Jan 2008 target was met.

						How progress will be	Milestones and
Activity		Status as of September 30,				measured and/or	anticipated completion
Number	Action	2008	2009	2010	Outcome	monitored	dates if applicable
5	Review, evaluate, and recommend improvements to the methodology used for estimating bycatch in collaboration with the Alaska Regional Office (AKR).	, ,	1) Review and analysis of NMFS Alaska catch & bycatch estimation procedures. 2) Evaluate available data and current data systems to meet the in-season needs of NMFS Alaska Region and fishery assessment needs of the AFSC.	Provide recommendations for practical system design that incorporates statistical uncertainty into estimates of catch and bycatch.		methods inclusive of catch and variance estimates.	Report to be completed in spring/early summer 2009. 2) Report to be completed by December 2009. 3) Report to be completed by December 2010.
6	Compliance monitoring of regulatory standards necessary to support effective observer sampling.	25 observer sample pre- inspections, and 14 bin monitoring inspections.	Ongoing	3. 3		vessel inspections meeting regulatory standards.	Annually
7	Compliance monitoring of regulatory standards necessary to support accurate catch monitoring and weight.		Ongoing	0 0	the Alaska groundfish fisheries.	The annual number and percentage of scales and processors meeting regulatory standards for accurate scales and adherence to catch monitoring plans.	Annually
8	Promote the use of electronic logbooks to facilitate identification and correction of bias in estimating bycatch for unobserved vessels. Also, promote interagency efforts to develop electronic reporting of landings data by trip.	,	Final rule published December 15, 2008 (73 FR 76136); Effective January 14, 2009	regulatory provisions	data will be available to identify and correct for bias in estimating bycatch for unobserved vessels.	Ongoing support for catcher vessel electronic logbook. Completion and implementation of groundfish electronic reporting system.	Implemented January 2009 (73 FR 76136, December 15, 2008)
9	Evaluate methods for improving bycatch estimates of marine mammals in state-managed Marine Mammal Protection Act (MMPA) Category II salmon fisheries.	Observed Yakutat set-gillnet salmon fishery summer 2008. Data analysis ongoing.	Complete analysis of data collected during 2008 field season. No further field activity planned for lack of funding.	funding.	Increased accuracy and precision to determine whether Potential Biological Removal (PBR) levels are exceeded, categorizing fisheries in annual List of Fisheries, and determining whether a fishery has approached a zero mortality rate.	Will continue observation of Category II salmon fisheries if funding becomes available.	

ctivity umber	Action Implement non-discretionary	Status as of September 30, 2008 Project initiated among IPHC,	2009 Ongoing	2010 Ongoing	Outcome Adequate monitoring of Pacific halibut	How progress will be measured and/or monitored Development of	Milestones and anticipated completion dates if applicable
10	Wildlife Service (USFWS) on impacts of Pacific halibut longline fishery on Endangered Species	AFSC, and AKR to conduct a feasibility study of halibut fishery monitoring options and a pilot study evaluating electronic monitoring technologies.			longline fishery for incidental take of ESA-listed and other seabird species, and incidental catch of groundfish species.	monitoring plan for the halibut fishery, including identification of resources; coordination with Council initiative and AFSC Observer Program. Monitor activities of Council, AKR, and AFSC that relate to this item.	
	time bycatch monitoring system on bycatch levels and fishing	Conducted analysis of closures impacts and provided input to SSC and Salmon Bycatch Workgroup.	Refine and finalize analysis of the effects of the system and consider potential changes; report findings.	Report findings.	Better understanding of cooperative spatial bycatch management systems.	Production of article for peer-reviewed journal.	N/A
	Participation by AKR and AFSC in preparation of information and text for the first edition of the National Bycatch Report (NBR)		First NBR completed.	Initiation of work on second edition of NBR. Focus on improved monitoring and estimation of bycatch.	Ongoing effort to improve data quality and estimation methodologies.	NBR will establish priorities for regional and national improvements in bycatch data quality and estimates.	
13	Report on large whale entanglements in Alaska.	Not initiated	Complete draft report in late FY09.	N/A	Develop technical memorandum that applies new serious injury guidelines to cases of entangled whales to assess whether serious injury has occurred.	Report will be completed.	Delayed due to change in staffing; draft report to be developed in FY09 and final report completed in FY10.
14	Evaluate whether measures of effort other than total catch can be used to extrapolate from observed to total marine mammal bycatch.	Not initiated	Initiate in late FY09.	Ongoing	Administrative report	Report will be completed.	Delayed due to change in staffing; report to be developed in FY10.
	Improved seabird bycatch reporting.	Statistical methods reviewed internally and approved, analysis completed and estimates produced. Purchase order implemented to assist with production of NOAA Technical Memo tables and figures.	Using approved analytical methods, estimate seabird bycatch in Alaskan waters by time/area cells and fishery sectors for period 1993-2006. Provide results in a NOAA Technical Memo.	Based on analysis, produce peer- reviewed paper's describing seabird bycatch in Alaska groundfish fisheries.	Improved accuracy and precision in estimates of seabird interactions and bycatch. Availability of seabird bycatch summaries for the 1993-2006 period to a wide suite of end-users.	(1) Analysis techniques reviewed and approved by peers, (2) bycatch numbers produced, (3) tables and figures drafted, (4) NOAA Technical Memo Produced, and (5) peer-reviewed articles submitted.	Project delayed due to other high-priority activities. Have made progress, with milestones 1 and 2 completed and NOAA Technical Memo in preparation. Deadlines are (a) NOAA Techniques and broad summary of bycatch by 9/1/2009, and (b) peer-reviewed papers on bycatch by 9/1/2010.

Activity		Status as of September 30,				How progress will be measured and/or	Milestones and anticipated completion
Number	Action	2008	2009	2010	Outcome	monitored	dates if applicable
16	Seabird interactions with longline gear.	Funding received from the National Seabird Program and purchase order awarded for analysis and draft report of vessel-specific seabird bycatch.	Prepare a draft report on demersal longline vessel- specific seabird	If funding is available, implement an outreach and gear-program to assist vessels in reducing their seabird bycatch through better performance of mitigation gear or changes to vessel operations.	Documentation of vessel seabird bycatch rates published in processed report (with appropriate privacy and confidentiality protections). Implementation of gear and outreach program would ultimately lead to reduced bycatch levels.	List of vessel-by-vessel seabird bycatch rates available to NOAA Fisheries managers. Processed report	(1) December 2008, analysis completed and draft report submitted to AFSC. (2) Processed Report completed by June 2009. (3) Outreach to industry during June-Sept. 2009. (4) Long-term plan created and funds applied for by Sept. 2009.
17	Trawl vessel interactions with seabirds.	produced by Washington Sea Grant Program (WSGP) (Dec. 2007). Observer sampling data and special project information used to note seabird bycatch by fishery sectors. Technology assessment partially addressed in WSGP report but needs more comprehensive review. Report drafted by WSGP on	issues, past work, and goals to be prepared for management decisions. Based on managers' input, a long-term research plan to be	To be determined after 2009 briefing paper and manager input. Funding source for any additional studies must be identified.	Characterize, minimize, mitigate trawl vessel interactions with seabirds, particularly the short-tailed albatross; this work will address non-discretionary measures required of NMFS in a USFWS Biological Opinion (Sept 2003).	Produce trawl mitigation report and white paper describing issues and potential actions.	As of 1/2009: Report on 1st generation mitigation measures collaborative study in prep, to be finished in 2009. Trawl fleet characterization (effort and 3rd wire use) report finished in Dec. 2007 (WSGP). Briefing paper to be produced in 2009 will indicate where further research may need to be focused (including offal management or mitigation measures) and associated funding levels needed.
18		NMFS Alaska Enforcement Division (AED) is evaluating certain technologies to assist in observer related enforcement activities and continues to work closely with the observer program to address bycatch related compliance issues.	Ongoing	Ongoing	Decreased occurrences of interference with observer sampling or reporting by crew and stricter adherence to performance requirements by observers.	with observer program staff to provide support for	AED will participate in technical working groups as needed.

Activity Number		Status as of September 30,				How progress will be measured and/or	Milestones and anticipated completion
	Action	2008	2009	2010	Outcome	monitored	dates if applicable
	Review compliance issues	AED continues to play an active	Ongoing	Ongoing	Bycatch reduction programs that greatly	AED will continue to work	AED will participate as
	associated with current bycatch	role in recommending			reduce or eliminate incentives for	with NMFS and Council	needed.
	reduction programs.	monitoring and enforcement			interfering with monitoring.	staff to provide support for	
		activities for Council actions.				bycatch reduction actions.	
19		Enforcement actions for					
		bycatch related violations are					
		handled on a case by case					
		basis.					

Activ Numb	- 1	Status as of September 30, 2008	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
Вус	atch Reduction Engineer	ing and Other Resear	ch				
1	Cooperative research to develop trawl methods to reduce salmon bycatch during pollock trawling.	Presentations on 2007 field work. Field testing of design improvements . Fall 2008 tests limited by salmon scarcity. Decided further testing is required. New EFP acquired.	Work with electronics vendors on real-time monitoring of excluder position (needed for effective use), additional field tests in Winter and Fall.	Analysis of 2009 results and presentation to industry and Council.	Reduced incidental catch of salmon in directed pollock fisheries.	Documentation of reduced bycatch rates with excluders, excluder use in fisheries.	(a) Presentation to industry (11/08), (b) 14-20 days field evaluations and observations (3/09), and (c) 14-20 days field evaluations and observations (11/09).
2	Develop halibut excluders for groundfish fisheries.	Increasing excluder use and reduced halibut bycatch in	Analyze 2007-08 results and present to potential users. Develop methods for more precise testing on small vessels. Facilitate improvements by fleet.	Tests of alternative configurations to improve selectivity.	Reduced incidental halibut catch in directed groundfish fisheries.	Documentation of reduced bycatch rates with excluders, excluder use in fisheries.	Design and pilot testing of devices to monitor escaping animals.
3	Investigate methods for reducing crab bycatch in trawl and pot fisheries.	New project	Develop study methods and conduct pilot investigations (depends on funding).	Conduct field tests of bycatch reduction devices (depends on funding).	Reduced crab bycatch in directed groundfish fisheries.	Documentation of reduced bycatch rates with excluders, excluder use in fisheries.	Field tests of bycatch modifications (8/09).
4	Measure injury/mortality rates of crabs encountering trawls.	Pilot study complete. Funding secured from NPRB. Principal field work completed.	Analysis of data from field experiments. Manuscripts to be prepared for peer- review journals.	New experiments on crab discard mortality as possible with external funding.	Reduced mortality of Alaskan crabs from trawl gear. Reduced discard mortality.	Peer-reviewed papers by collaborators on mortality predictors and mortality estimates for trawl gear .	Field work for primary project completed in August 2008. First manuscript on use of reflex actions in Tanner crab and snow crab to predict mortality from trawl injuries published in 2008.
5	Modify bottom trawls to reduce effects on seafloor habitats.	Field studies completed and reported to Council, which endorsed use for Bering Sea habitat conservation, pending practicality testing and adjustments.	Full analysis of field results. Manuscript on catch effects. Practicality testing and report to Council.	Analyze 2007 results and present to potential users. Further design improvements and testing.	Reduced effects to structure forming sessile animals.	Documentation of reduced effects to structure forming sessile animals with minimal reduction in target catch rates.	June - Practicality report to Council. August - Catch effects analysis.

Activity Number	Action	Status as of September 30, 2008	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
6	Stock assessment research for non-target groundfish species.	Stock assessments were prepared for skates, squid, sculpin, and octopus. In 2008, observer special projects were continued for five sculpin species in the BSAI. An age structured stock assessment was developed for BSAI Alaskan skate.	Assessments will be updated, conditional on funding and priorities. Observer special projects to collect sculpin species identification will be continued. Observer special projects to collect skate sex and length will be continued.	updated, conditional on funding and		Stock assessments will provide information on the bycatch of species, their size, and sex.	December 2009 Stock Assessment and Fishery Evaluation (SAFE) Report chapters will be completed .
	Stock assessment research to reduce prohibited species bycatch.		Analytical support on salmon bycatch mitigation measures will continue.	salmon bycatch	Evaluate the extent to which alternative bycatch management strategies affect bycatch rates and fishing strategies.	By assisting in responses to comments on the EIS.	Final rule for Chinook salmon bycatch regulations.
8	Economic and social science data collection and research.	Rob Hicks completed and under internal AFSC review.	Work on real-time salmon bycatch modeling for pollock fishery.	on salmon bycatch in the pollock fishery.	Improved ability to determine the social and economic impacts of bycatch and bycatch management measures and to model fishing behavior.	By our ability to measure decreases in bycatch and fishery closures associated with pollock fishing.	N/A
	Estimate the population/stock compositions for Chinook and chum salmon caught as bycatch in the BSAI groundfish/pollock fishery	ABL is collaborating with the University of Alaska School of Fisheries and Ocean Sciences to develop a comprehensive	genetic analyses for bycatch. In the interim, evaluate the use of existing genetic baselines, compare the utility of	2009 observer collected salmon samples from the BSAI Groundfish Fishery to limit sample bias. Genotype 1,500 Chinook and 1,500 chum samples and provide genetic stock	Chinook and chum bycatch for large geographical regions including western Alaska. Develop and implement effective management measures to reduce bycatch. Results will enable fisheries managers to make better	be obtained for completing the studies, and sample collection protocols will be reviewed	This will be an ongoing project that will be completed annually, and stock composition estimates will be made available to the public within 6-9 months (before the start of the next season).

Activity Number	Action	Status as of September 30,	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
10	Seabird use of fishery discards and offal.	on issue. Total discards estimated and stable isotope sampling completed. A Univ. of Washington graduate student also worked on the discard availability issue. Special data collections through observer program completed (1st phase). Processed report completed on discard availability. Three papers in prep by former NRC post doc reporting on seabird use of offal in pollock fishery and stable isotope signal of fishery for	Three papers are expected, including a description of seabird interactions with the pollock fishery, stable isotope signals of feeding on offal by albatross, and effects of fishery signals on breeding. Results will assist in predicting effects of climate change for albatross.	if changes to offal and discard	(1) Define linkage between seabird bycatch and offal/discard production. (2) Provide basis for continuing this work as a post doc with the Univ. of Washington, in collaboration with the AFSC, if funding provided by the North Pacific Ressearch Board.	reviewed papers.	Project was extended due to taking on extra work on using stable isotopes and colony work. Current projected end date for 3 peer-reviewed papers is 5/2009. Preliminary results were presented at the 12/2007 CLIOTOP conference and the 8/2008 International Albatross and Petrel Conference. A processed report describing discard use by seabirds was produced in 2008, and that project was re-implemented for 2009.
11	A project to study the behavioral response of rock sole to disturbance by bottom trawl gear in order to determine how natural behaviors may be utilized to assist in bycatch reduction efforts in the rock sole fishery.	experiments on effects of elevated sweeps upon flatfish herding.	Will submit manuscript to Fisheries Research.	None	Improved understanding of behavioral basis of herding in flatfish as well as evaluation of improved trawl sweeps to minimize seafloor damage.	Submission of manuscript to peer-reviewed journal.	Annually

Activity Number		Status as of September 30, 2008	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
12	Improve spatio-temporal characterization of seabird bycatch estimates.	Short-tailed albatross threshold analysis and fishery overlap papers were published in 2008. Presentations were made at seabird conferences.		To be determined after discussion in 2009.	Improved characterization of when and where seabirds, especially albatross, are being incidentally taken can assist in efforts to reduce this incidental take.	Peer-reviewed papers by collaborators relevant to risk assessment and threshold analysis.	Short-tailed albatross threshold analysis and fishery overlap papers were published. Other spatio-temporal characterizations will occur in results of reporting seabird bycatch for 1993-2006.
Mana	 gement (Including Inter	national Efforts)					
1	Accounting interval change for certain Maximum Retainable Amounts (MRA).	Development of proposed rule for legal review.	Publish proposed and final rules.	No further action.	Decrease regulatory discards and increase retention for non-American Fisheries Act (AFA) catcher/processors in the BSAI.	Report to Council on increased pollock retention.	Implementation early 2010.
2	Minimum Groundfish Retention Standard (GRS).	Completed	No further action.	No further action.	Create a standard for retention of groundfish for the BSAI groundfish fishery to reduce groundfish discards while continuing to allow for a multispecies trawl fishery to continue to be a viable fishery.	Monitor rates of discard by the non-AFA trawl catcher/processor fleet relative to standards established under the GRS program.	Effective January 20, 2008 (71 FR 17362, April 6, 2006).
3	Harvesting Cooperatives for the BSAI head and gut catcher/processors and quota allocations to all sectors: Amendment 80.	Completed	Refinement of regulatory provisions as needed.	Refinement of regulatory provisions as needed.	Facilitate rationalization of some sectors in the BSAI. Rationalization would eliminate the race for fish and allow cooperative behavior to decrease discards.	Ongoing monitoring and enforcement of Amendment 80 program.	Effective January 20, 2008 (72 FR 52668).
4	Extend North Pacific Groundfish Observer Program beyond December 31, 2007.	Completed	Refinement of regulatory provisions as needed.	Tefinement of regulatory provisions as needed.	Continued collection of catch and bycatch data, and management monitoring programs.	Ongoing assessment of observer program sampling protocols and use of data for catch accounting.	Final rule published July 6, 2007 (72 FR 44795). Effective August 6, 2007.
5	Non-target species management.	Continued development of problem statement and Alternatives.	Development of EA/RIR/IFRA, and Council action.	Publish proposed and final rule.	Optimization of sustainable yield of non- target species, where possible, while also protecting them from potential overfishing.	Publish proposed and final rule.	Publish proposed and final rule in 2010.

Activity Number	Action	Status as of September 30, 2008	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
6	GOA groundfish fishery rationalization.	The Council has tabled this project to focus instead on fishery-specific management measures that could achieve some benefits of rationalization, but at a more focused scale.	No further action.		Provide opportunities to address conservation goals by providing opportunities to utilize fishing methods that reduce bycatch and gear conflicts.	No further action.	Council action dates are unknown.
7	Non-pelagic trawl gear modification.	Experimental design under review and modification.	Continue to explore non-pelagic trawl gear modifications that would minimize impact on the bottom habitat and associated living marine resources.	Pursue rulemaking to implement non- pelagic trawl gear modifications.	Minimizing the impact of non-pelagic trawl gear fisheries on Bering Sea bottom habitat.	Publish proposed and final rule.	Implementation of new non- pelagic trawl gear standards in 2010.
8	Bering Sea bottom habitat protection from non-pelagic trawl gear.	Completed	Refinement of regulatory provisions as needed.	Refinement of regulatory provisions as needed.	Minimizing the impact of non-pelagic trawl gear fisheries on Bering Sea bottom habitat.	Monitor fishing activity for compliance with regulatory provisions.	Final rule published July 25, 2008 (73 FR 43362).
9	BSAI Salmon bycatch (Amendment 84a).	Completed	No further action.	No further action.	Amendment 84a: reduce salmon bycatch rates by exempting participants in a voluntary rolling hotspot system from established salmon savings area trawl closures.	Monitor salmon bycatch rates and associated salmon bycatch numbers.	Implementation by final rule effective November 28, 2007 (72 FR 31070, October 29, 2007).
10	Bering Sea Chinook salmon bycatch.	Council initiated analysis of alternatives and formed salmon bycatch workgroup.	Draft environmental impact statement distributed for public review December 5, 2008.	Proposed and final rulemaking.	New and more effective Chinook salmon bycatch reduction program implemented for the Bering Sea pollock fishery by 2011.	Council action to adopt new bycatch measures; rulemaking.	Council adopts new Chinook salmon bycatch measures in 2009 and subsequent implementation of a final rule by January
11	Bering sea non-Chinook salmon bycatch.	Delay analysis of alternatives to reduce non-Chinook salmon bycatch until mid-2009.	Publish notice of intent to prepare an analysis of alternatives.	Ongoing development of proposed new program.	New and more effective non-Chinook salmon bycatch reduction program implemented for the Bering Sea pollock fishery by 2012.	Council action to adopt new bycatch measures; rulemaking.	Council adopts new non- Chinook salmon bycatch measures in 2010 and subsequent implementation of a final rule in 2011 or
12	CGOA Rockfish Pilot Project.	Completed	Refinement of regulatory provisions as needed.	Refinement of regulatory provisions as needed.	Provide opportunities to address conservation goals by providing opportunities to utilize fishing methods that reduce bycatch and gear conflicts.	Periodic program reviews and associated reports presented to the Council .	Final rule published November 20, 2006 (71 FR 67210). Effective December 20, 2006
13	Seabird bycatch reduction in longline fishery in Area 4E of the Bering Sea.	Develop proposed rule.	Published proposed and final rules.	·	Increase effectiveness of seabird avoidance measures and reduce burden on the fishery by tailoring avoidance measures to fisheries and in areas where short-tailed albatross occur.	Monitor incidental takes of seabirds and associated distribution of short-tailed albatross.	Publication of final rule is anticipated by spring 2009.

Activity Number	Action Seabird bycatch reduction in longline fishery.	Status as of September 30, 2008 Completed	2009 No further action.	2010 No further action.	seabirds, and remove unneeded regulations. Also, free streamer lines are		Milestones and anticipated completion dates if applicable Final rule published December 18, 2007 (72 FR 71601).
45		Ongoing development of a proposed rule.	Proposed rule published November 25, 2008 (73 FR	No further action required.	through the Pacific States Marine Fisheries Commission. Decrease regulatory discards and increase retention of arrowtooth flounder	rulemakings. Publication of a final rule and follow up reports on discard amounts in the	Publication of final rule is anticipated in April 2009.
15	Propose, develop, and analyze	Wrote and presented	62241); final rule published by April 2009. Provide on-going	Report findings.		arrowtooth flounder fishery. Production of article for	N/A
16	different market-based salmon	discussion paper to the Council, AP, and SSC.	input and analysis to the Council.	Keport illidings.	,	peer-reviewed journal.	IVA
Educa	tion and Outreach						
	Improve bycatch information available to industry.	Working with private fisheries management firms to provide accurate, precise, and timely bycatch information for transmittal to fleet.	Ongoing	Ongoing	gear technology, the effects of bycatch, and in-season bycatch data and can make better decisions to avoid bycatch.		Remaining below TACs, allocations, and PSC levels.
		Annually present bycatch information to the Council on the effects of regulatory discards.	Ongoing	Ongoing	be able to make better decisions regarding management actions and	Presentation of bycatch information to the Council on the effects of regulatory discards.	Annually
	and the AFSC on the development, review, and issuance of exempted fishing permits (EFPs) intended to reduce bycatch mortality in the groundfish fisheries.		Coordinate new EFPs assessing better ways to assess and reduce halibut discard mortality.	Ongoing	provisions that would result in reduced bycatch mortality in the North Pacific groundfish fisheries.	Council.	Council on the conclusion of experimental activity authorized under each EFP.
4	fishery management	The NMFS National Seabird Program is coordinated out of the AKR and engages in numerous activities to promote international action to effectively address seabird/fishery issues.	Ongoing	Ongoing	makers outside the United States to decrease bycatch and obtain information	international seabird	Any products (reports, papers) from joint U.S./international seabird bycatch reduction efforts.

Activity Number	Action	Status as of September 30, 2008	2009	2010	Outcome	How progress will be measured and/or monitored	Milestones and anticipated completion dates if applicable
		Project was delayed into 2009 due to lack of funds. Funding applied for. Industry partners identified.	Depending on funding: conduct 2-3 week cruise on commercial trawl vessel, examining baseline seabird interaction rates with paravane gear and developing potential mitigation gear.	study and produce report. Based on results, make recommendations for	Gain an understanding of seabird interactions with paravane gear (used by about 10-12 catcher/processors) and develop potential mitigation methods for testing in field studies with appropriate sample sizes.	fieldwork planned, implemented, and completed; analyst on contract; report produced.	(1) Funding is provided by April 2009. (2) If funding provided, then field work implemented and completed by Sept 2009. (3) Analysis and report completed by June 2010.
	in Alaskan groundfish fisheries.	Decision made to develop improved annual process with more standardization and less dependency on staff, making use of existing processes available through the AKR catch accounting system.	Statistical methods being used to produce annual seabird estimates are evaluated for use in the Catch Accounting System. Specs are developed and a request for changes submitted, allowing about 6 months for work to be completed.	work required. Annual production of estimates ongoing.	,	estimates by July of each year.	(1) Initial request made to AKR, (2) informal workshop held to determine appropriate procedures, (3) specs developed and submitted by April 2009, and (4) changes to AKR Catch Accounting System implemented by Dec. 2009.
associate		Observer Program, yellow with	stock assessment and		hities occur. Red items are primarily the Alaska Fisheries Science Center,		