



2007-2011

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	2007	2008	2009	2010	2011
Lower Trophic Level Productivity (Science Plan page 41)	<p>Ocean monitoring</p> <ul style="list-style-type: none"> Long-term ocean monitoring <p>Lower trophic level productivity</p> <ul style="list-style-type: none"> Shelf-inland water coupling in ACC; importance of freshwater runoff Seasonal/interannual variation in primary and secondary production in SE GOA Benthos Process driving secondary production 	<p>Oceanography and Lower Trophic Level Productivity</p> <ul style="list-style-type: none"> Coupling between shelf, nearshore and inland waters in the Alaska Coastal Current (ACC) as well as the importance of freshwater runoff Population dynamics, distribution and abundance, productivity and trophic roles of appendicularians and pteropods Oceanic zooplankton species in shelf food webs: on-shelf transport processes Euphausiid biology 	<p>Oceanography and Lower Trophic Level Productivity</p> <ul style="list-style-type: none"> Importance of ocean fronts to ecosystem processes in the GOA Coupling between shelf, nearshore and inland waters in the Alaska Coastal Current (ACC) and the importance of freshwater runoff Changing Arctic food webs 	<p>Oceanography and Lower Trophic Level Productivity</p> <ul style="list-style-type: none"> Importance of physical features to ecosystem processes Ocean acidification in Alaska waters Changing Arctic food webs <i>Research related to Table 3-2, Science Plan</i> 	
Fish Habitat (Science Plan page 51)	<ul style="list-style-type: none"> Recovery/resilience of fish habitat Effects of commercial fishing on groundfish essential habitat 	<ul style="list-style-type: none"> Habitat mapping in the Northern Bering Sea Research Area 	<ul style="list-style-type: none"> Bering Sea canyons: comparison between canyon and slope habitats using existing data Pribilof Canyon benthic habitat mapping Essential habitats for forage fish in the GOA 	<ul style="list-style-type: none"> Bering Sea canyons: comparison between canyon and slope habitats Essential habitats for forage fish and demersal spawning fishes Habitat analysis in the Northern Bering Sea Research Area 	
Fishes and Invertebrates (Science Plan page 65)	<p>Bycatch</p> <ul style="list-style-type: none"> Bycatch estimation <p>Stock assessment/recruitment processes</p> <ul style="list-style-type: none"> Life history, ecology and fluctuations in BSAI crab stocks Local impacts of fishing on prey of upper trophic level consumers Squid and shark assessment <i>Research related to Table 3-4, Science Plan and North Pacific Fishery Management Council Research Priorities</i> 	<ul style="list-style-type: none"> Local impacts of fishing on prey availability for top trophic level consumers Stock assessment/life history of sleeper and salmon sharks Skate nurseries Rockfish Efficacy of bycatch mitigation measures Processes controlling recruitment dynamics for all crab species Over-winter survival of Pacific salmon species Pacific cod 	<ul style="list-style-type: none"> Stock assessment, life history and population biology of North Pacific sharks Stock assessment support Fish movement 	<ul style="list-style-type: none"> Stock assessment, life history and population biology of North Pacific sharks Stock assessment support Fish movement Pacific salmon Forage species Ocean acidification impacts on fish <i>Research related to Table 3-4, Science Plan</i> 	
Marine Mammals (Science Plan page 83)	<ul style="list-style-type: none"> Sea otters North Pacific right whales Cook Inlet beluga whales Polar bears Fur seals 	<ul style="list-style-type: none"> Ice seals Steller sea lions Pacific walrus in the Chukchi Sea Polar bears 	<ul style="list-style-type: none"> Study design for quantifying indirect local effects of fisheries on upper trophic predators Small or declining populations 	<ul style="list-style-type: none"> Small or declining populations Ice-dependent pinnipeds Short-term Steller sea lion movement patterns Southeast Alaska sea otters <i>Research related to Table 3-9, Science Plan</i> 	
Seabirds (Science Plan page 97)	<ul style="list-style-type: none"> Seabirds as indicators of forage fish Beached bird monitoring program Stressed and endangered species survival 	<ul style="list-style-type: none"> Seabird-ecosystem relationships Indirect and long-term population effect of contaminants Spectacled eiders 	<ul style="list-style-type: none"> Influence of non-breeding season conditions on population dynamics Seabird-forage fish ecosystem relationships Small or declining populations 	<ul style="list-style-type: none"> Influence of non-breeding season conditions on population dynamics Seabird-forage fish ecosystem relationships Small or declining populations <i>Research related to Table 3-12, Science Plan</i> 	
Humans (Science Plan page 113)	<ul style="list-style-type: none"> <i>Research related to Table 3-13, Science Plan and North Pacific Fishery Management Council Research Priorities</i> 	<ul style="list-style-type: none"> Analyses of current determinants of exvessel, wholesale, international, and retail demands for principal seafood products from the GOA and BSAI Pre- and post-implementation studies of the benefits and costs associated with changes in management regimes Prospective and retrospective analyses of changes in the spatial and temporal distribution of fishing effort 	<ul style="list-style-type: none"> - - - 	<ul style="list-style-type: none"> Social and economic studies of bycatch and bycatch mitigation Pre- and post-implementation studies of management actions Community adaptability to ecosystem change Cost-benefits of fishery enforcement services <i>Research related to Table 3-13, Science Plan</i> 	
Other Prominent Issues (Science Plan page 123)	<p>Contaminants</p> <ul style="list-style-type: none"> Shipping risk assessment studies Other 	<p>Contaminants</p> <ul style="list-style-type: none"> Long-term contamination Point source contamination 	<p>Marine Diseases</p> <p>Technology Development</p> <ul style="list-style-type: none"> Molecular and laboratory-based technology development Marine measurement technology development 	<ul style="list-style-type: none"> Marine diseases and biotoxins Invasive species Marine spatial planning Benthos <p>Technology Development</p> <ul style="list-style-type: none"> Molecular and laboratory-based technology Marine measurement technology Resource assessment technology 	



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Ecosystem Studies (Science Plan page 133)	• ---	Aleutian Islands <ul style="list-style-type: none"> Nearshore dynamics of the Aleutian Islands Ecosystem impacts of climate and ocean conditions in the Aleutian Islands Fishing effect interactions Advancing ecosystem approach to fisheries management Development of forecasting tools that incorporate ecosystem indicators Ecosystem indicators including retrospective studies 	Aleutian Islands <ul style="list-style-type: none"> Nearshore dynamics of the Aleutian Islands Population structure Impacts of volcanic activity Ecosystem Indicators and Data Rescue <ul style="list-style-type: none"> sData rescue Ecosystem indicators 	Ecosystem Indicators and Data Rescue <ul style="list-style-type: none"> Data rescue Ecosystem indicators 	
Bering Sea IERP (Science Plan page 133)	• Response of the Bering Sea ecosystem to climate change: full RFP for BSAI IERP	• Program funded for 2007–2012: BEST/BSIERP partnership, \$35M	• Program ongoing	• Program ongoing	
Gulf of AK IERP (Science Plan page 136)	• GOA LME planning with team	• GOA LME implementation and partnerships	• GOA IERP funded for \$8M 2009–2014; Upper Trophic Level component funded	• GOA IERP funded for \$8M 2009–2014; Lower and Middle Trophic Level components funded	
One-Time Special Needs	<ol style="list-style-type: none"> Establish a comprehensive sea ice database for the Bering Sea/Bering Strait region Compile and analyze chlorophyll data Design arctic baseline survey north of Bering Strait 	• ---	• ---	• ---	
Local and Traditional Knowledge (Science Plan page 144)	<ul style="list-style-type: none"> LTK encouraged in text LTK related to other priorities <i>Also: Community Involvement</i>	<ul style="list-style-type: none"> LTK encouraged in text LTK related to other priorities <i>Also: Community Involvement</i>	<ul style="list-style-type: none"> LTK encouraged in text LTK related to other priorities <i>Also: Community Involvement</i>	<ul style="list-style-type: none"> LTK encouraged in text LTK related to other priorities <i>Also: Community Involvement</i>	
Coordination and Partnerships (Science Plan page 147)	Oil Spill Recovery Institute <ul style="list-style-type: none"> Socioeconomics: modeling community impacts Tracking and monitoring marine organisms Alaska Ocean Observing System <ul style="list-style-type: none"> Evaluation of buoy locations 	Oil Spill Recovery Institute <ul style="list-style-type: none"> Socioeconomics: modeling community impacts Contaminant baseline assessment Forage fish and near-shore habitat associations 	Oil Spill Recovery Institute <ul style="list-style-type: none"> PWS NPZ model validation Rockfish habitat association in PWS Larval drift, transport and distribution in PWS 	Oil Spill Recovery Institute <ul style="list-style-type: none"> PWS NPZ model validation Rockfish habitat association in PWS Larval drift, transport and distribution in PWS 	
Cooperative Research with Industry (Science Plan page 148)	Fishing Industry <ul style="list-style-type: none"> Gear modification Fisheries monitoring Bycatch remediation Ecosystem monitoring Oil and Gas Industry <ul style="list-style-type: none"> Seaduck migration and impacts Walrus in Chukchi Sea Polar bears in Chukchi Sea North Slope salmon 	Fishing Industry <ul style="list-style-type: none"> Gear modification Fisheries monitoring Bycatch reduction Ecosystem monitoring and research Whale entanglement avoidance and deterrents Habitat mapping Oil and Gas Industry <ul style="list-style-type: none"> Polar Bears Marine mammal acoustic studies Shoreline change Ice Seals Salmon distribution Influence of oil and gas development on marine bird distribution, migration and habitat use 	Fishing Industry <ul style="list-style-type: none"> Fisheries monitoring & improved estimation of total bycatch Electronic monitoring Gear modification Bycatch reduction and reduction in bycatch mortality Avoidance of interactions between fishing gear and whales Regulatory compliance and effectiveness of fishery enforcement services Oil and Gas Industry <ul style="list-style-type: none"> Polar bears Species of special concern Shoreline change Invertebrate distribution and abundance 	Fishing Industry <ul style="list-style-type: none"> Gear modification Handling mortality Fishery monitoring Ecosystem observations and research Crab life cycle and rehabilitation Oil and Gas Industry <ul style="list-style-type: none"> Species of special concern in the Arctic Monitoring from platforms in the Arctic 	
Education, Outreach and Community Involvement (Science Plan page 150)	Education and Outreach <ul style="list-style-type: none"> \$60,000 to outreach professionals (BSIERP) Minimum \$2,000 per project (non-BSIERP) Community Involvement <ul style="list-style-type: none"> Community-based research 	Education and Outreach <ul style="list-style-type: none"> \$100,000 (BSIERP) Minimum \$2,000 per project (non-BSIERP) Graduate research awards (\$100,000) Student awards at Symposium Community Involvement <ul style="list-style-type: none"> Community-based research 	Education and Outreach <ul style="list-style-type: none"> \$100,000 (BSIERP) Minimum \$2,000 per project (non-BSIERP) Graduate research awards (\$100,000) Student awards at Symposium State Science Fair awards Community Involvement <ul style="list-style-type: none"> Community-based research 	Education and Outreach <ul style="list-style-type: none"> \$100,000 (BSIERP) Minimum \$2,000 per project (non-BSIERP) Graduate research awards (\$100,000) Student awards at Symposium State Science Fair awards Community Involvement <ul style="list-style-type: none"> Community-based research 	