Alaska Fisheries Science Center FY22 State of the Center

Robert Foy AFSC Research and Science Director

Presentation to North Pacific Fisheries Management Council February 07, 2022

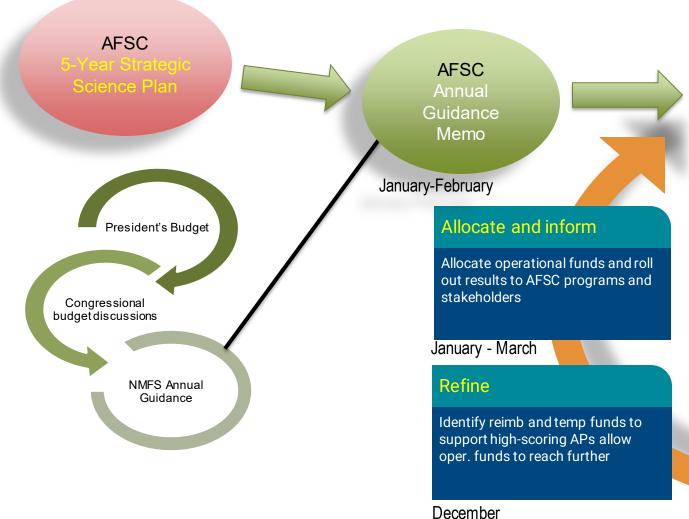


Outline

- AFSC resource allocation process
- FY23 FY27 Strategic Science Plan
- Budget trends and FY22 expectations
 - FY22 Underfunded priority research (under Continuing Resolution – CR budget)
 - FY22 Fully funded high priority research (including surveys)



AFSC Resource Allocation Process



Build Activity Plans

Divisions, Programs, Work Groups draft APs that will implement the AFSC strategic plan

April - May

Activity Plans ranked

Board of Directors score Activity Plans using established ranking criteria

June

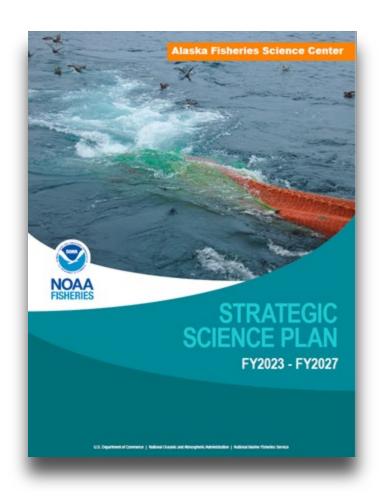
Develop initial allocations

AFSC Directorate develops initial allocations based on prioritizations and budget

September



AFSC Strategic Science Plan (SSP)



- Identifies priorities for the next five years (FY2023-FY2027)
- Designed to support and advance the mission of NOAA and NMFS
- Aligned with NMFS Strategic Plan
- Informs the AFSC Annual Guidance Memo
- https://www.fisheries.noaa.gov/resource/do cument/alaska-fisheries-science-centerstrategic-plan-fy2023-fy2027



SSP Opening

- Introduction
 - Vision, mission, and core values
- AFSC Overview
 - Laws, policies, and EOs that direct our activities
 - Organizational and federal budget structure
 - Human capital resources and facilities assets
 - Challenges and opportunities



SSP Organizational Excellence

- Overarching goal is to achieve the highest standards of integrity, transparency, and service in all AFSC operations so that we may succeed in carrying out our mission as an organization.
- Underpins all of the work conducted by AFSC



SSP Organizational Commitments

- 1. AFSC culture: transparency, engagement, accountability and respect
- 2. Diversity, equity, inclusion, and accessibility
- 3. Integrity of business operations, safe work environment, and proactive and strategic communication
- 4. State-of-the-art information technology
- 5. Change management
- **6.** Resilience to crises
- 7. Develop and promote partnerships and collaborations



SSP Science Goals

- **Goals:** reflect NMFS' core mission to maintain sustainable fisheries and conserve and recover protected species.
 - Objectives: describe more specifically what outcomes or impact we are trying to achieve with each goal
 - Strategies: we have further identified a series of strategies that we will use to achieve each objective.
- Three goals will guide our work over the next five years.



SSP Science Goal 1

- Goal 1: monitor and assess fish, crab, and marine mammal populations, fisheries and marine ecosystems.
 - o Objective 1.A: conduct assessments
 - Objective 1.B conduct applied ecosystem and socioeconomic analyses
 - o Objective 1.C: create next generation assessments
 - o Objective 1.D: reduce bycatch



SSP Science Goal 2

- Goal 2: Investigate, model, and predict ecosystem and climate impacts on living marine resources
 - Objective 2.A: Investigate ecosystem-level changes with field and modeling studies.
 - Objective 2.B: hindcast, forecast, and project effects of climate change
 - o Objective 2.C: High Arctic research priorities



SSP Science Goal 3

- Goal 3: Advance new initiatives and innovations
 - o Objective 3.A: Data innovation and improvement
 - o Objective 3.B: Innovative technologies
 - AI, EM, UxS, tagging, acoustic sensing
 - o Objective 3.C: 'Omics
 - o Objective 3.D: Aquaculture

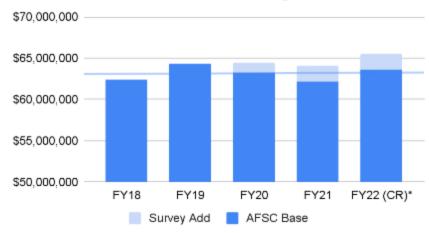


Budget trends and FY22 expectations (CR)

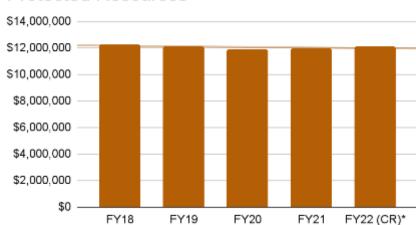


AFSC Budget Trends

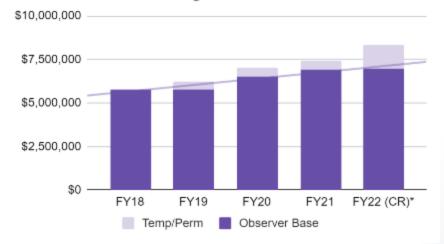
AFSC Total Permanent Funding



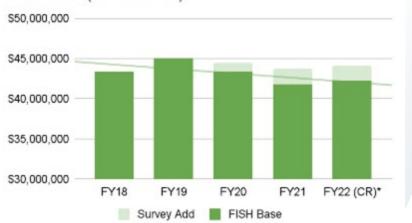
Protected Resources



Observers & Training



Fisheries (w/o NCRP)

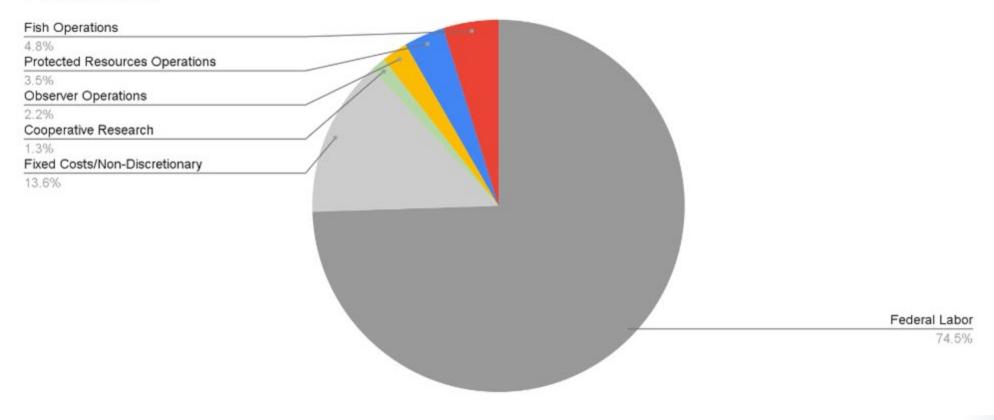


*FY22 estimated Temporary and reimbursable funds are not included.



AFSC Preliminary FY22 Base Funding Profile (CR)

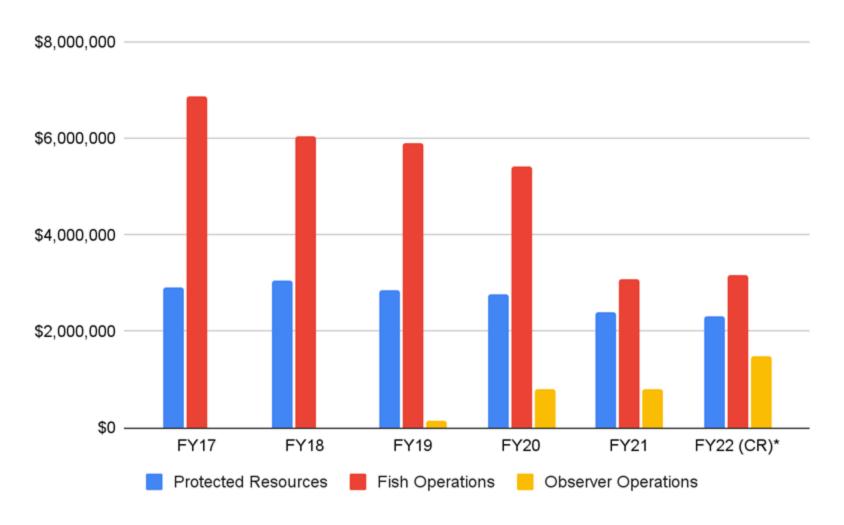
FY22 Amount



- Fixed Costs/Non-Discretionary includes facilities, mandatory travel, and other costs that are required to be paid annually.
- Temporary and reimbursable funds are not included.



Operational Funding Trends







Future Predictions

FY22 budget scenarios	Year of potential impact to research portfolio (if no other increases)
stable budget (CR)	FY23
increased budget directed to surveys	FY24
increase budget directed to surveys and climate	FY25



FY22 high priority underfunded research

Protected Resources and Observer (CR)

- North Pacific right whale assessment
- Abundance and distribution of endangered large cetaceans –
 Bering, Chukchi, and Beaufort Seas
- Uncrewed aerial systems to assess Aleutian pinnipeds
- Alaska Marine Mammal Observer Program.



FY22 high priority underfunded research Fish (CR)

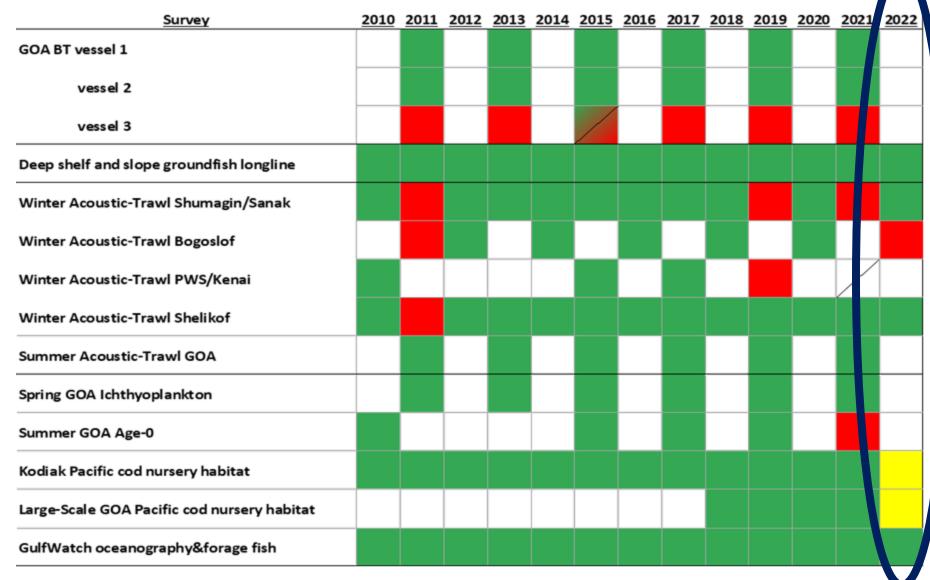
- Salmon bycatch– (aging support)
- Food habits
- Pacific cod research (process and tagging)
- Eastern Bering Sea Fisheries Surveys and Ecosystem Assessments (RPA)
- Little Port Walter research
- Midwater survey tool
- Sablefish tagging
- Pollock transboundary movements



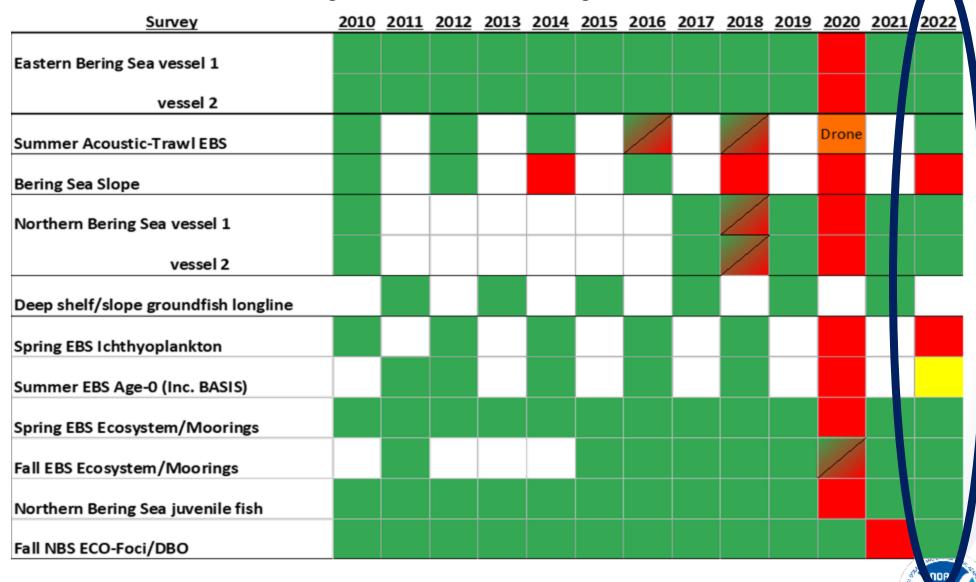
FY22 fully funded high priority research (CR)



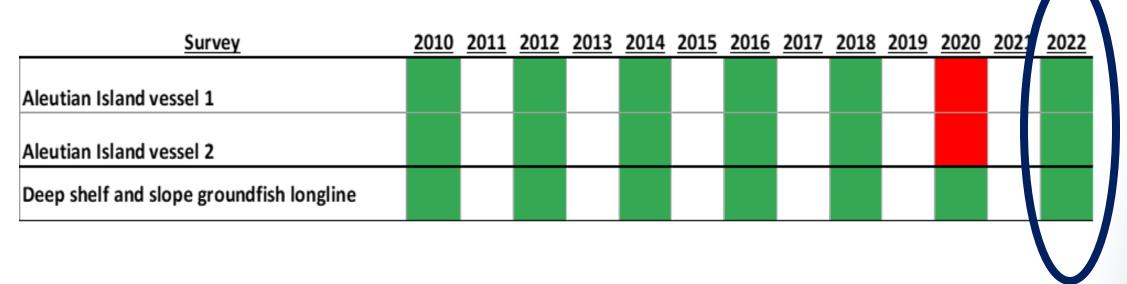
Gulf of Alaska Fish & Ecosystem Surveys



Bering Sea Fish & Ecosystem Surveys

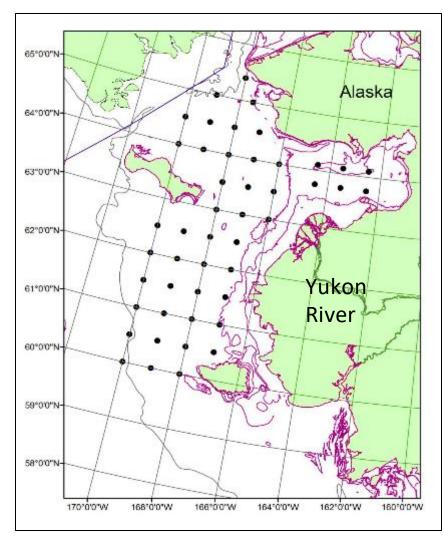


Aleutian Islands Fish Surveys





AFSC - Focus on Salmon Marine Survival



When: September 2002 to Present

Where: Northeastern Bering Sea

Why: Understand how loss of sea ice will affect the distribution, abundance and fitness of fishes, seabirds, and mammals and the food they depend upon.



Physical Oceanography **Temperature**

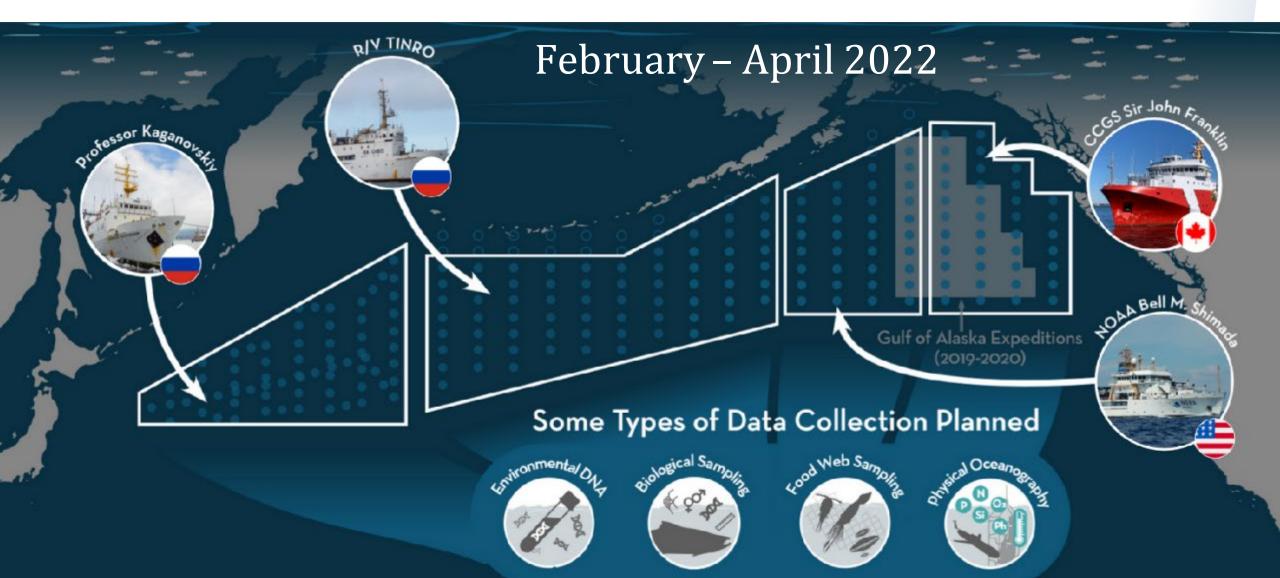


Biological
Oceanography
Prey



Fish
Size, Diet,
Energy,

AFSC – Focus on Salmon Marine Survival International Year of the Salmon



Other FY22 funded high priority research

- Stock assessments
- ACLIM
- Age and Growth
- Observer coverage
- Electronic monitoring
- EBS beluga abundance
- Cook Inlet Beluga abundance
- Pinniped vital rates



Adaptive Strategies for Uncertain Resources (ongoing)

- Priority based resourcing
 - Achieving a balanced portfolio
- Streamlining our success
 - Finding efficiencies
 - Reducing some efforts
 - Investing in others
- Partnering with stakeholders



Next-Generation Data Acquisition Plan

- NOAA Fisheries' data needs are evolving rapidly.
- The NG-DAP will describe current and future data, platforms, and data collection methodology needs, laying the framework for acquisition of traditional, as well as new and expanded data sets, technologies, and approaches.
- We will use the NG-DAP to guide data acquisition within NMFS for the next 10 to 15 years.





Next-Generation Data Acquisition Plan

PUBLIC OPPORTUNITY to convey views on what data acquisition considerations they think are important for living marine resource management to enable the best predictions and decisions in a rapidly changing environment.

https://www.eventbrite.com/cc/ng-dap-virtual-public-listening-sessions-120459

		Time (EDT)	Session Topic	Meeting Registration
Tue	Feb 15	2-4pm	Session 1: Fisheries	Register: Listening Session 1: Fisheries
Thu	Feb 17	12-2pm	Session 2: Protected Resources	Register - Listening Session 2: Protected Resources
Tue	Feb 22	2-4pm	Session 3: Ecosystems	Register - Listening Session 3: Ecosystems
Thu	Feb 24	12-2pm	Session 4: Human Dimensions	Register - Listening Session 4: Human Dimensions
Tue	Mar 1	2-4pm	Session 5: Blue Economy	Register - Listening Session 5: Blue Economy



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Thank You!

