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Inflation Reduction Act (IRA) Climate Ready Fisheries Program Overview

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Inflation Reduction Act

The Inflation Reduction Act ("IRA", HR 5376, PL 117-169), signed August 16, 2022, provides a total of \$3.3B to NOAA. These funds have been internally divided into three "buckets," as noted below, and allow NOAA to add increased focus to weather and climate resilience, coastal restoration and protection, supercomputing, facilities, and aircraft.



Bucket 1



Coastal Communities & Climate Resilience

Bucket 2



Forecasting, Weather, & Climate

Bucket 3

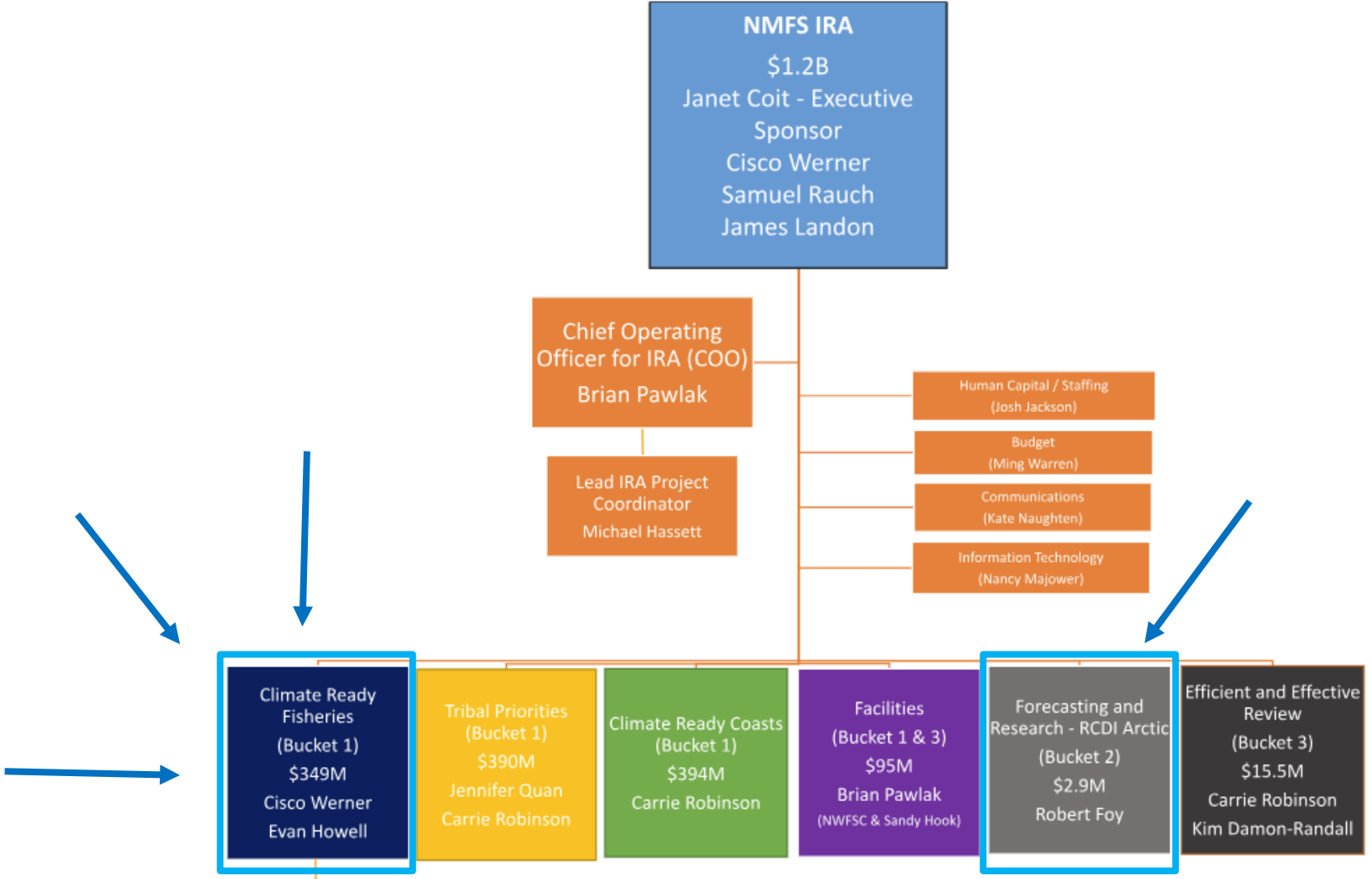


Facilities, Permitting, Aircraft, & More



Organizational Structure

Inflation Reduction Act (and Climate Ready Fisheries) Organizational Structure



Inflation Reduction Act (and Climate Ready Fisheries) Organizational Structure

Climate Ready Fisheries
\$349M

NMFS Leadership Sponsor(s): Cisco Werner

EDA/AT
\$105M

Sub Component Lead: Kristen Koch

NARW
\$82M

Sub Component Lead(s): Jon Hare
Kim Damon-Randall

CEFI
\$40M

Sub Component Lead(s): David Detlor
Cisco Werner

Pacific Salmon
\$42M

Sub Component Lead: Kevin Werner

Mod Data
\$40M

Sub Component Lead(s): Noriko Shoji
Nancy Majower

Councils
\$20M

Sub Component Lead: Kelly Denit

Red Snapper
\$20M

Sub Component Lead: Clay Porch

Administrative Overhead
\$22M

Sub Component Lead: Brian Pawlak

CEFI: Climate, Ecosystem, and Fish Initiative

EDA/AT: Essential Data Acquisition and Advanced Technology

Mod Data: Modernizing Data

NARW: North Atlantic right whale





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Essential Data Collection / Advanced Technologies

Inflation Reduction Act Climate Ready
Fisheries Program Overview

Sub Component Lead: Kristen Koch, Tia Brown

EDA / AT IRA Funding Overview

- \$1.45B in total funding from FY2023 to FY2026.
- Mitigate the recent loss of at-sea survey capability and increase the efficiency of traditional platform data acquisition.
- **AFSC received \$5.5M for Alaska fisheries survey charters**
- In FY23, PIFSC/AFSC/SWFSC will use \$3.3M to charter critical Pacific protected species surveys. **AFSC will use \$850k to charter a vessel for the Bering Sea Alaska ice seals survey**



EDA / AT IRA Funding Goals

- Operationalize the data tools recommended in the **Next-Gen Data Acquisition Plan**, leading to a distributed fleet of data acquisition platforms and tools to transform NMFS' data acquisition enterprise.
- Modernize and transform NMFS' advanced technology and social science capabilities. Strategic Initiative Working Groups will develop nationally-coordinated regional applications of **UxS, 'Omics, Active acoustic systems, Passive acoustic systems, Optical systems, Remote sensing, and Social science.**



Territorial/Tribal Data Acquisition

- Activities will include support for **coordinating existing knowledge networks** to build capacity in remote Alaskan communities.
- Support climate resilience in communities on the front lines of climate change in the Alaska Region requires NOAA services in the form of **partnerships, internships, and education opportunities.**



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Climate, Ecosystems, and Fisheries Initiative (CEFI)

IRA Climate Ready Fisheries Program Profile Overview

Sub Component Leads: Cisco Werner and David Detlor

Inflation Reduction Act Funding

Overview:

The CEFI calls for building an **operational ocean modeling and decision support system** to transform our science enterprise and provide decision makers with the robust **forecasts, projections, risk assessments and advice** they need for climate-ready resource management and community adaptation.

Goals:

Build-out the four components of the CEFI System and demonstrate its utility in all six regions:

- ***Robust ocean forecasts and projections*** - Establish climate-ocean modeling systems in all six regions delivering customized ocean hindcasts, forecasts and projections to Decision Support Teams for use in developing climate informed advice (funding to build on NOAA modeling systems and High Performance Computing).



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Inflation Reduction Act Funding

Goals (continued):

- **Access to ocean model data** - Establish a CEFI Information Portal for centralized data management and easy access to ocean hindcasts, forecasts and projections for use in developing climate informed advice for decision makers from fisheries to coastal communities and other ocean uses (e.g., wind energy, aquaculture).
- **Produce climate-informed advice** - Establish Decision Support Teams in all six regions to transform the existing science enterprise into one that operationally produces climate informed advice including assessments of risk and best strategies for resilience and adaptation.
- **Increase climate-ready decision making** - Work with regional decision makers to develop, test and improve climate-informed advice for effective resource management and community adaptation.





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Forecasting and Research RCDI Arctic

IRA Program Profile Overview

Sub Component Lead: Robert Foy

Arctic - Inflation Reduction Act Funding

Goals:

- Coordination of **data on shifting abundance and distribution of subsistence-harvested marine mammals** relative to ocean conditions
- Support co-development of research and knowledge needs with **academic, international, and Indigenous partners.**
- Support and coordinate existing knowledge networks to build capacity in remote Arctic communities in line with the emerging NOAA Fisheries **environmental justice strategy**; amplify Arctic community voices within the current and future fisheries management regimes.



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Arctic - Inflation Reduction Act Funding

FY23 Program Profile - \$ 0.739 million

- Student invitational travel and In Fish internship
- Support for engagement on ice sea surveys and Arctic collaboration in the CAO/northern Bering Sea.
- Coordination of Arctic data collection efforts

Outyears (FY24-26) – \$ 2.176 million

Total

- NESDIS \$2.3
- NMFS \$2.9
- NOS \$1.4
- NWS \$0.6
- OAR \$4.0
- Total: **\$11,351,000**





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Regional Fishery Management Councils

Inflation Reduction Act (IRA) Climate Ready
Fisheries Program Overview

Sub Component Lead: Kelly Denit

Councils IRA Funding Overview

- \$20M in total funding from FY2023 to FY2026.
- Proposals **must** be focused on fishery management and governance topics.
- Actions funded under IRA will contribute to the following overarching goals:
 - Implementation of fishery management measures necessary to advance climate ready fisheries by improving climate resiliency and responsiveness to climate impacts; and
 - Development and advancement of climate-related fisheries management planning and implementation efforts in support of underserved communities.



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Councils IRA Funding Priorities

- Operationalize **fish climate vulnerability assessments** or other scientific products (e.g., ecosystem status reports, Integrated Ecosystem Assessments, etc.);
- Operationalize recommendations from **climate scenario planning** efforts;
- Develop and implement **management changes or processes** to address climate vulnerability or improve climate resiliency of fisheries (e.g., potential **revisions to harvest control rules** to account for changes in ecosystems related to climate change), including those that are important to underserved communities;
- Develop and implement measures or processes that **increase responsiveness of allocations** or other management measures to climate impacts;
- Develop and advance **climate-related fisheries management** planning (e.g., conduct climate scenario planning) and implementation efforts, including those in support of underserved communities.



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Questions...