NFWF Electronic Monitoring and Reporting Program

NFWF CONTACTS

Gray Redding Manager, Fisheries Conservation gray.redding@nfwf.org 202-595-2438

PARTNERS

- National Oceanic and
 Atmospheric Administration
- Walton Family Foundation



Tribal fishers gillnetting for salmon on the Columbia River

OVERVIEW

The National Fish and Wildlife Foundation (NFWF) and National Oceanic and Atmospheric Administration (NOAA), along with the Walton Family Foundation, announce the 2023-2024 slate of projects for the Electronic Monitoring and Reporting Grant Program. Seventeen new grants totaling more than \$4 million were awarded. The 17 awards announced generated \$7.5 million in match from the grantees, providing a total conservation impact of more than \$11.5 million.

The Electronic Monitoring and Reporting Program drives innovation and electronic technologies implementation in U.S. fisheries data collection and works to systematically modernize data management systems for improved fisheries management. This year's grant slate funds projects to develop artificial intelligence tools, continue large-scale implementation and expand the benefit of electronic technologies to new conservation communities and fisheries.

The following 17 projects address two key strategies to advance electronic technology implementation in U.S. fisheries: 1) test and deploy e-technology in fishery data collection and 2) modernize data management systems. In many cases, projects address both strategic priorities.

ABOUT NFWF

Chartered by Congress in 1984, the National Fish and Wildlife Foundation (NFWF) protects and restores the nation's fish, wildlife, plants and habitats. Working with federal, corporate and individual partners, NFWF has funded more than 6,800 organizations and generated a total conservation impact of more than \$10 billion.

Learn more at www.nfwf.org

NATIONAL HEADQUARTERS

1625 Eye Street, NW Suite 300 Washington, D.C., 20006 202-857-0166

Applying Artificial Intelligence in New England Groundfish Trawl Discard Accounting (MA, ME, RI)

Continued Testing of Electronic Monitoring on Rockfish Trawl Vessels in the Central Gulf of Alaska

Grantee: Alaska Groundfish Data Bank

Development of a Data-Entry Tablet and Database for Sampling Recreational Fishers in Puerto Rico

Grantee: University of Miami

Enhancing Electronic Monitoring in the Groundfish Fishery using Artificial Intelligence (MA, ME, RI)

Grantee: Integrated Monitoring

Grant Amount:\$225,800
Matching Funds: \$228,500
Total Project Amount:\$454,300
Enhance electronic monitoring in the New England
groundfish fishery using artificial intelligence built off of a
comprehensive data library compiled in collaboration with
NOAA research vessels and local fishermen. Project will
assess the costs and benefits of these artificial intelligence
tools and bolster transparency, sustainability, and compliance
in the fishery, using New England's fishery as an example for
other regions.

Enhancing Observer Efficiency in Alaska Processing Plants through Electronic Monitoring

Grantee: Saltwater

Grant Amount:\$153,800
Matching Funds:
Total Project Amount:\$378,800
Test the use of electronic monitoring systems in Gulf of Alaska
fish processing plants to monitor the sorting line for salmon
bycatch during offloads from vessels in the pollock fishery.
Project will determine the ability of shoreside observers
to collect sufficient data if aided by in-plant electronic
monitoring systems, allowing more shoreside observer time
to be focused on collecting the biological data that is critical
to the conservation and management of Alaskan salmon and
pollock fisheries.

Evaluating the Use of Electronic Monitoring in the Atlantic Sea Scallop Fishery (MA, NJ)

Grantee: Coonamessett Farm Foundation Grant Amount:......\$358,000 Matching Funds:.....\$850,500 Total Project Amount:.....\$1,208,500 Systematically test the implementation of electronic monitoring in the Atlantic sea scallop fishery on six vessels located in Massachusetts and New Jersey. Project will monitor haul-level fishing activity, bycatch composition, collect fisheries-dependent data, more accurately estimate fishing efforts, inform the use of electronic monitoring in this fishery and train up to 20 full-time fishermen.

Expand Availability and Use of WaTix Commercial Catch Electronic Reporting Tool (WA)

Identifying Monitoring Solutions for the West Coast Deep-Set Buoy Gear Fishery for Swordfish (CA)

Improving Real Time Electronic Logbook Data Collection and Reporting for Halibut and Groundfish (AK)

Grantee: Real Time Data North America

Improving Vessel Protocols to Address Electronic Monitoring Data Collection and Participation (AK)

Grantee: North Pacific Fisheries Association

Grant Amount:\$127,000	
Matching Funds: \$151,200	
Total Project Amount:\$278,200	
Test updates for an effective electronic monitoring catch	
handling protocol for Alaska's pot cod fisheries aiming to	
resolve persistent challenges that have negatively affected	
participation. Project will develop solutions for the fixed gear	
electronic monitoring pool of vessels that address handling	
challenges, allow for continued successful participation by	
pot vessels in the pool, and meet the data collection needs of	
fishery managers.	

Modernizing Data Sharing of Klamath Basin Fisheries Collaborative Members (OR, CA)

Modernizing the Yakama Nation's Data Management System for the Tribal Harvest Program (OR, WA)

Grantee: Confederated Tribes and Bands of the Yakama Nation

Grant Amount: \$50,000	
Matching Funds: \$0	
Total Project Amount: \$50,000	
Build capacity and processes for integrating innovative	
electronic technology and data modernization solutions	
to address the Yakama Nation's Tribal Harvest Program's	
non-electronic information management processes for tribal	
fisher registration and Treaty harvest accounting. Project	

will standardize the tribal fisher registration and harvest data to streamline internal and external data sharing, while improving consistency and reducing the costs of conducting business.

Paired Voluntary Electronic Reporting and Angler Surveys to Test Mark-Recapture Methods (CA, OR)

Grantee: Angler's Atlas / MyCatch Grant Amount:......\$300,000 Matching Funds:.....\$1,035,600 Total Project Amount:.....\$1,335,600 Expand a mark-recapture technique developed by Riggers and Jones (2022) to determine if it can be successfully applied to fisheries through a voluntary electronic reporting method. Project will conduct paired voluntary reporting and angler follow-up surveys in six distinct fisheries in Oregon and California, with the expected outcome being a measure of the effectiveness of this method from three lakes, one river and two coastal regions.

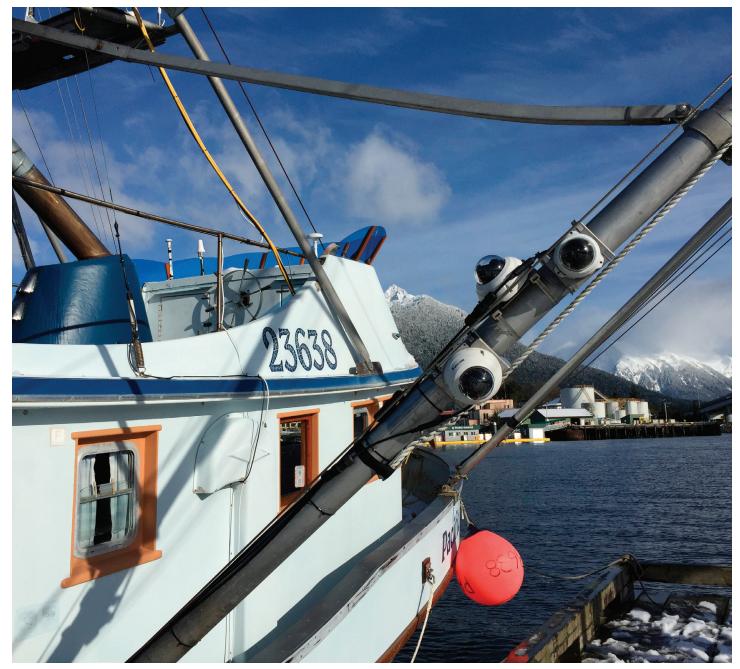
Progressing to Regulated Electronic Monitoring for Compliance in the Gulf of Alaska Pollock Fishery Grantee: Aleutians East Borough

Grantee. Meutians Last Dorougn
Grant Amount:\$576,900
Matching Funds: \$809,000
Total Project Amount: \$1,385,900
Refine electronic monitoring protocols and continue
progress towards executing a monitoring program on Gulf
of Alaska pelagic pollock trawl catcher vessels to aid in the
accountability of fishermen in terms of fisheries retention
management practices. Project will expand upon previous
electronic monitoring grants to provide improved data
quality, timeliness, and cost-efficiency for salmon bycatch
accounting and detecting and quantifying groundfish
discards.

Scaling Electronic Logbook Implementation for the Alaskan Troll Fishery

Grantee: Alaska Trollers Association

2023 GRANT SLATE



Sharing Knowledge and Experiences Across the Electronic Monitoring and Reporting Community (WA) Grantee: Fieldwork Communications

Grant Amount:	\$124,000
Matching Funds:	\$125,400
Total Project Amount:	\$249,400

Support a growing network of United States electronic monitoring and reporting stakeholders, and encourage uptake in additional fisheries, by sharing knowledge, experiences, resources and connections across the EM4Fish "Community of Practice" platform. Project will advance electronic monitoring and reporting by publishing stories, conducting interviews, hosting online convenings and continuing to grow a rich resource library for the fishtech community.

Longline fishing vessel in Alaska

Transitioning For-Hire and Commercial Fishing Fleets to Electronic Vessel Trip Reporting (NY)