



NFWF

Electronic Monitoring and Reporting 2017 Grant Slate

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FUNDING PARTNERS



GORDON AND BETTY
MOORE
FOUNDATION



KINGFISHER
FOUNDATION

ABOUT NFWF

The National Fish and Wildlife Foundation (NFWF) protects and restores our nation's fish and wildlife and their habitats. Created by Congress in 1984, NFWF directs public conservation dollars to the most pressing environmental needs and matches those investments with private funds. Learn more at www.nfwf.org

NATIONAL HEADQUARTERS

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Fishing vessels, New England

OVERVIEW

The National Fish and Wildlife Foundation, National Oceanic and Atmospheric Administration, the Gordon and Betty Moore Foundation and the Kingfisher Foundation announced a third-year round of funding for the Electronic Monitoring and Reporting Grant Program projects, awarding a total of more than \$3.59 million in grants. The 12 awards announced generated \$3.15 million in match from the grantees, providing a total conservation impact of more than \$6.75 million.

The Electronic Monitoring and Reporting Grant Program seeks to catalyze the implementation of electronic technologies in U.S. fisheries in order to systematically integrate technology into fisheries data collection and modernized data management systems for improved fisheries management.

The following 12 projects address two key strategies to advance electronic technology implementation in U.S. fisheries: 1) implementing regional-scale electronic monitoring and reporting strategies and 2) technological innovations to improve data review and storage.

(continued)



NOAA Fisheries employee enters groundfish trawl survey data | Credit: Victor Simon, NOAA/NMFS/NWFSC

Improve and Expand the Puerto Rico Commercial Fishery Electronic Reporting System

Grantee: The Nature Conservancy

NFWF Award Amount:\$98,055

Matching Funds:\$98,055

Total Amount:\$196,110

The Nature Conservancy will develop, improve and expand the adaptive electronic reporting system for up to 100 vessels in Puerto Rico fisheries. The project will result in a fully functional electronic reporting system in Puerto Rico’s commercial fisheries which will improve catch accountability, monitor annual catch limits, promote productive and sustainable fisheries, and improve Puerto Rico’s fisheries statistics collection and management.

Expanding Electronic Monitoring in the New England Groundfish Fisheries (MA, ME, NH, RI)

Grantee: Cape Cod Commercial Fishermen’s Alliance

NFWF Award Amount:\$541,110

Matching Funds:\$270,555

Total Amount:\$811,665

Cape Cod Commercial Fishermen’s Alliance will expand participation in electronic monitoring from 20 to 30 vessels in the New England groundfish fishery to improve accountability through video monitoring and reduce bycatch. The project will update technology, plan for industry cost-sharing, and strengthen partnerships with fishermen, the National Marine Fisheries Service and scientists resulting in improved long-term fisheries management.

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Fishing vessel equipped with electronic monitoring equipment.

A closer look at some of the equipment.
Credit: Dan Falvey, Alaska Longline Fishermen’s Association

Expanding the Electronic Fisheries Reporting Platform to U.S. Virgin Islands Commercial Fisheries

Grantee: The Ocean Foundation
 NFWF Award Amount:\$159,753
 Matching Funds:\$160,000
Total Amount:\$319,753

The Ocean Foundation will expand the electronic fisheries reporting platform established in Puerto Rico to the U.S. Virgin Islands in order to improve fisheries data. The project will apply mobile technology to collect fisheries data and combine data capture and visualization capabilities which will support improved fisheries management.

Increasing the Scale of the Alaskan Longline Electronic Monitoring Program (AK)

Grantee: Alaska Longline Fishermen’s Association
 NFWF Award Amount:\$577,959
 Matching Funds:\$600,000
Total Amount:\$1,177,959
 Alaska Longline Fishermen’s Association will improve

Alaska’s longline electronic monitoring program for vessels participating in sablefish, halibut and Pacific cod fixed gear fisheries by providing electronic monitoring hardware, field service support for vessels, and support for stakeholder engagement. The project will result in electronic monitoring of up to 120 hook and line vessels that will reduce bycatch and improve the utility of electronic monitoring data for fishermen and fishery managers.

Implementing Electronic Vessel Trip Reporting in New York

Grantee: Cornell Cooperative Extension Association of Suffolk County
 NFWF Award Amount:\$84,558
 Matching Funds:\$84,626
Total Amount:\$169,184
 Cornell Cooperative Extension Association of Suffolk County will develop and implement a voluntary cost-shared electronic monitoring and reporting program to



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support fisheries conservation and management in Long Island, New York. The project will increase data accuracy and timeliness for New York fishery dependent data by advancing education and training for electronic vessel trip reporting using an eTrips mobile application.

Electronic Harvest Reporting System (WA)

Grantee: Washington Department of Fish and Wildlife
 NFWF Award Amount:\$304,296
 Matching Funds:\$304,297
Total Amount:\$608,593

Washington Department of Fish and Wildlife will deploy an electronic reporting and monitoring software system for non-tribal commercial fishers and tribal fishers in Puget Sound and Washington coastal waters. The project will build on pilot projects to develop a complete mobile and web catch reporting solution to serve up to 4,500 commercial and tribal fishers.

Electronic Monitoring Pre-Implementation in Alaskan Pot Cod Fishery (AK)

Grantee: Saltwater
 NFWF Award Amount:\$445,867
 Matching Funds:\$445,867
Total Amount:\$891,734

Saltwater will expand electronic monitoring pre-implementation in the Alaska pot cod fishery by installing electronic monitoring units on up to 15 additional vessels. The project will test an alternative service delivery model focused on building cost effective data collection infrastructure, data review and management processes to provide timely data to fisheries managers and facilitate electronic monitoring data integration.

Expanding the Gulf of Mexico Charter Boat Electronic Logbook (AL, FL, LA, MS, TX)

Grantee: Gulf Seafood Institute
 NFWF Award Amount:\$668,500
 Matching Funds:\$661,358
Total Amount:\$1,329,858

Gulf Seafood Institute will expand the use of electronic logbook units in the Gulf of Mexico by improving the software of the electronic logbooks, as well as provide training and outreach to captains. The project will increase the number of vessels with installed electronic logbook units in the Gulf of Mexico, resulting in more accurate data to fishery managers.

Reducing Cetacean Bycatch by Expanding a Portable Electronic Monitoring System (FL)

Grantee: WearWare
 NFWF Award Amount:\$106,312
 Matching Funds:\$112,803
Total Amount:\$219,115

WearWare will increase the effectiveness of bycatch mitigation activities using more inclusive data sets to rapidly and economically identify critical bycatch interactions with minimal disruption to industry in Florida. The project will result in reduced cetacean bycatch and expand the range of electronic monitoring platforms through a modular, portable piece of equipment to be used interchangeably among shore-based stations, as well as small scale and medium-sized vessels.

Computer Vision Tools for Electronic Monitoring Video Review (MA)

Grantee: CVision Consulting
 NFWF Award Amount:\$128,084
 Matching Funds:\$138,085
Total Amount:\$266,169

CVision Consulting will develop open source video review tools for the fisheries management community to accelerate the delivery of accurate electronic monitoring data. The project will result in a semi-automated video review and expanded use of computer vision in the New England groundfish fisheries which reduces the cost of fisheries data collection and review while increasing the coverage of electronic monitoring.

Enhancing the Online Resource Network for the Electronic Monitoring and Reporting Community

Grantee: Fieldwork Communications LLC
 NFWF Award Amount:\$40,005
 Matching Funds:\$50,565
Total Amount:\$90,570

Fieldwork Communications LLC will provide greater access to information about electronic monitoring, electronic reporting and fishtech programs across the United States through an expanding online network. The project will advance conservation efforts by promoting the adoption of data management initiatives and modernization of fishery management practices in the United States.

Develop Machine Learning Software to Reduce Electronic Monitoring Costs in New England (MA, ME, RI)

Grantee: Gulf of Maine Research Institute
 NFWF Award Amount:\$450,268
 Matching Funds:\$225,134
Total Amount:\$675,402

Gulf of Maine Research Institute will develop activity recognition algorithms to identify fishing activity to decrease video review time, and data storage requirements on vessels using a maximized retention bycatch monitoring approach in the New England groundfish fishery. The project will install software on vessels, document the process for incorporating automation into an electronic monitoring program, and present results in a best practices report.