
National Oceanographic Partnership Program

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Integrated Systems Solutions

MBON All-Hands Meeting
May 30, 2025



National Oceanographic Partnership Program

Defense Authorization Act

(1997 - Public Law 104-201)

(Reauthorized and strengthened 2021 - Public Law 116-283)

Purpose

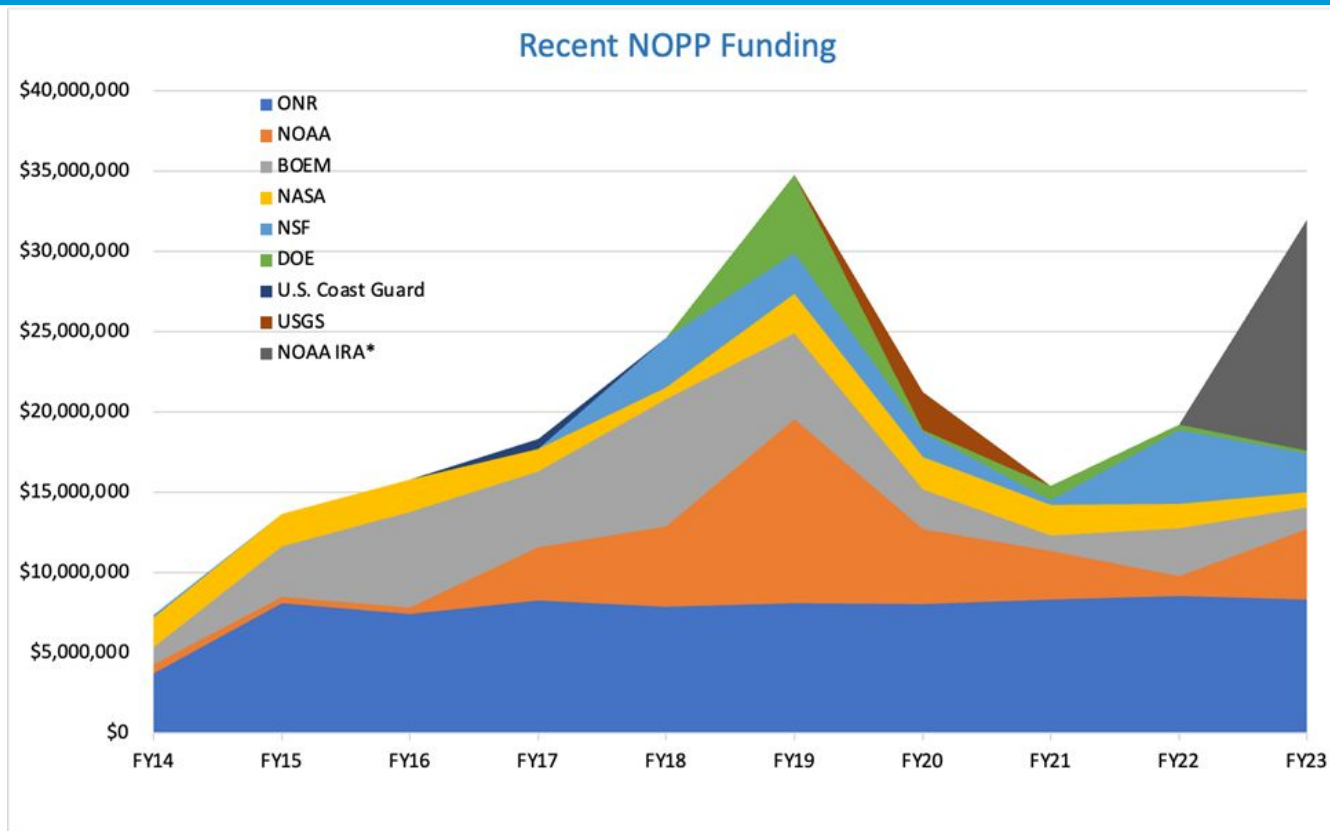
“To promote the national goals of assuring national security, advancing economic development, protecting quality of life, ensuring environmental stewardship, and strengthening science education and communication through **improved knowledge of the ocean...**”

“**by creating and carrying out partnerships among Federal agencies, academia, industry, and other members of the oceanographic community** in the areas of science, data, technology development, resources, education, and communication.”

What is NOPP?

- Enables federal ocean agencies to collaborate and coordinate on research areas of mutual interest
- NOPP projects involve:
 - Multiple federal agencies in either performance or sponsorship;
 - At least two sectors of public, private, and academia; and
 - Coordinated agency review
- NOPP agencies coordinate and define solicitation topics with academic and/or industry partners and provide direct support to projects via several mechanisms, including cooperative agreements, interagency agreements, and competitive opportunities, such as BAAs

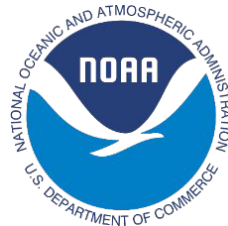
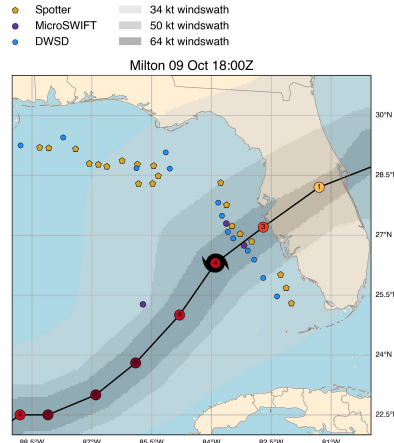
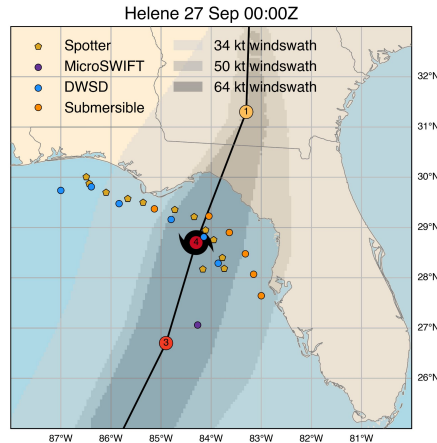
Recent NOPP Funding



2022-2024 Hurricane Coastal Impacts

NOPP coordinated effort to enable better understanding and predictive ability of hurricane impacts - to serve and protect coastal communities. Composed of 10 teams that work cohesively to produce research-grade forecasts and quantitative evaluation of performance. Recent field activities included deployment of buoy arrays in Hurricane Helene and Hurricane Milton.

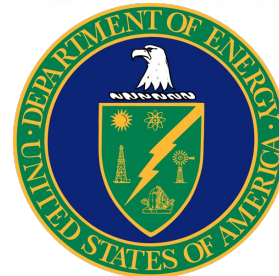
Includes 7 industry, 6 government and 15 academic partners.



FY23 Marine Carbon Dioxide Removal Funding Opportunity

Coordinated through NOPP

\$24.3M fundraised by interagency and philanthropic partners
This includes NOAA funding received from the Inflation Reduction Act



Biodiversity

Marine Biodiversity Tech Surge (October 1-2, Baltimore, MD) organized by Marine Technology Society and the Ocean Enterprise Initiative

Follow-on to the Summit on Ocean Biodiversity held January 2024 and organized by NOAA and the Smithsonian to amplify the importance of ocean biodiversity to the well-being of human communities and economies and the steps needed to protect these ecosystems.

NOPP is assisting these efforts to coordinate with the community, especially in light of the two new biodiversity strategies that were released this year:

- National Ocean Biodiversity Strategy

- National Strategy for Aquatic Environmental DNA



IOOS
Integrated Ocean
Observing System



NOPP-Supported Biodiversity Projects

Project Title	Lead PI/s	Lead Institution/s	Duration (Y)	Start (FY)
Multi-trophic level expansion of the Gulf of Maine Marine Biodiversity Observation Network: meeting management challenges in a rapidly changing ecosystem	Kritzer, Jake	NERACOOS	5	2024
Mid-Atlantic MBON: dynamic biodiversity and telemetry data for a changing coast	Kuska, Gerhard; Ogburn, Matthew	MARACOOS/University of Delaware	5	2024
An Operational BioTrack: monitoring at-risk marine species biodiversity hotspot Interactions with Management and resource use areas to support stakeholder needs in the face of global change	Hammerschlag, Neil	Shark Research Foundation, Inc.	5	2024
Marine Biodiversity Observation Network in the Northern California Current: dynamic, multiscale assessment of biodiversity and ecosystem function to support emerging science and management needs	Kavanaugh, Maria	Oregon State University	5	2024
Dynamics of biodiversity across lakescapes in North America's inland seas	Godwin, Casey	University of Michigan	5	2024

NOPP-Supported Biodiversity Projects

Project Title	Lead PI/s	Lead Institution/s	Duration (Y)	Start (FY)
The Southeast US Marine Biodiversity Observation Network (MBON): Toward Operational Marine Life Data for Conservation and Sustainability	Muller-Karger, Frank	University of South Florida	5	2022
AMBON (Arctic MBON) - linking biodiversity observations in the Arctic	Iken, Katrin	University of Alaska Fairbanks	5	2022
Quantifying marine biodiversity through movements and feeding: Assessing coastal marine ecosystem dynamics near estuary mouths	Furey, Nathan	University of New Hampshire	5	2022
The CeNCOOS MBON: Marine biodiversity information in support of a healthy Blue Economy in the central California Current	Chavez, Francisco	Monterey Bay Aquarium Research Institute	5	2022

NOPP-Supported Biodiversity Projects

Project Title	Lead PI/s	Lead Institution/s	Duration (Y)	Start (FY)
Implementing a Marine Biodiversity Observation Network (MBON) in South Florida to Advance Ecosystem-Based Management	Muller-Karger, Frank	University of South Florida	3	2019
Southern California Bight Marine Biodiversity Observation Network	Miller, Bob	University of California - Santa Barbara	3	2019
Marine Biodiversity Observing Network in the Northern California Current: Understanding patterns and drivers of biodiversity and ecosystem functioning from plankton to seascapes	Kavanaugh, Maria	Oregon State University	3	2019

NOPP-Supported Biodiversity Projects

Project Title	Lead PI/s	Lead Institution/s	Duration (Y)	Start (FY)
Accelerated Prediction of the Polar Ice and Global Ocean (APPIGO)	Chassignet, Eric P.	Florida State University	5	2014
An Integration and Evaluation Framework for ESPC Coupled Models	Kirtman, Ben	University of Miami, RSMAS	5	2014
Initiating an Arctic Marine Biodiversity Observing Network (AMBON)	Iken, Katrin	University of Alaska, Fairbanks	5	2014
National Marine Sanctuaries as Sentinel Sites for a Demonstration Marine Biodiversity Observation Network	Muller-Karger, Frank	University of South Florida	5	2014
Demonstrating an Effective Marine Biodiversity Observation Network in the Santa Barbara Channel	Miller, Bob	University of California, Santa Barbara	5	2014



NOPP-Supported Biodiversity Projects

Project Title	Lead PI/s	Lead Institution/s	Duration (Y)	Start (FY)
The Fishnet Distributed Biodiversity Information System	Wiley, Edward	University of Kansas, Natural History Museum	2	2000
Census of Marine Fishes (CMF): Definitive List of Species and Online Biodiversity Database	Eschmeyer, William	California Academy of Sciences	2	2000

Looking ahead for NOPP

Renewed interest in NOPP across government with a desire to facilitate greater use of public-private partnerships to execute ocean projects (“NOPP 2.0”)

- Identifying out-year research priorities including potential large projects beyond the scope of limited dedicated pots
- Work with other IWG’s to leveraged NOPP and advance their priorities
- Increasing partnership with philanthropies and private industry and leveraging the new NOPP Program Office
- Expanding possibilities under the FAR and exploring new financial mechanisms
- Leveraging other federal resources and financial tools outside NOPP-agencies to support ocean priorities

Questions & Discussion

www.NOPP.org for more information

