

Contact Molly (Mccammon@aoos.org)
or Carol (Janzen@aoos.org)
if you have any questions.

PROPOSALS SUBMITTED (or underway) MAY 2020

PROPOSALS PENDING

National Science Foundation Navigating the New Arctic 20-514

NOTE: Original proposal submitted Feb 28, 2019: rejected w/comments; re-submitted

Status: PENDING

Lead Institution submitting proposal: Tufts University

Title: Collaborative Research: NNA Track 1: Science Diplomacy Informed Decisionmaking for Sustainability (SDIDS): Integrating Pan-Arctic Maritime Ship Traffic

Total Award: \$AOOS/Axiom \$40,043

Date Submitted: Feb 11, 2020

Project PI: Paul Berkman

Project AOOS PI: Molly McCammon

Proposed Project Period: 10/1/20 – 9/30/24

Brief Description: The goal of this project is to improve understanding of ship traffic and biophysical changes associated with social and infrastructure systems on a pan-Arctic scale and to develop a wholistic methodology of informed decision-making that contributes to Arctic sustainable development with co-production of knowledge. The AOOS portion would use Axiom Data Science to do a comparison of the extent and quality of satellite-based AIS data versus land-based AIS data in the Bering Strait region.

NOAA Office of Marine and Aviation Operation's Unmanned Systems Operations Center (OMAO)

NOTE: RFP is separate from the FY2020 Advancing NOAA UAS Applications RFP currently underway

Subject Focus Area: Ecosystem Monitoring by Underwater Gliders

Status: PENDING

Lead Institution submitting proposal: University of Alaska, Fairbanks

Title: NOAA OMAO - Demonstrating operational readiness of AUV-based ecosystem monitoring through a field program supporting the International Year of the Salmon

Total Award: \$569,291, (AOOS/AXIOM \$57,109)

Proposal Due: April 15, 2020 (Notifications expected by June 1, 2020)

Project PI: Ed Farley, Alaska Fishery Science Center, Juneau, AK

NOTE: RFP was an internal NOAA competition and the PI of the proposal must be a NOAA federal employee

Project AOOS PI: AOOS is a collaborator on data management and visualization through Axiom Data Science, who is a sub awardee on the project.

Proposed Project Period: 2020-2023

Brief Description: This proposal will expand the sampling capability of a Slocum autonomous underwater glider to provide *in situ* ecosystem monitoring in support of NOAA's International Year of the Salmon (IYS) winter 2021 field survey, and again in 2022. Glider deployments will demonstrate glider-to-internet automated data collection, processing, and near-real-time internet availability of results in a custom reporting system. The entire suite of environmental metrics will be delivered in near-real time through a web-based Ecometrics Dashboard interface hosted by the Alaska Ocean Observing System. The Ecometrics Dashboard will provide a user interface and display of measurement-based indices that will enable managers and other stakeholders to efficiently assess the state of the ecosystem. The project will demonstrate an advanced readiness level for operationalizing an AUV-based ecosystem monitoring system, with application to sustainable resource management that requires pre-determined transects or adaptive sampling schemes.

National Science Foundation (NSF) NSF Program solicitation number: 16-595

NOTE: Submitted December 2018 to the NSF AON (Arctic Observing Network), REJECTED

REVISED AND RESUBMITTED APRIL 2020

Status: PENDING

Lead Institution submitting proposal: Oregon State University School of Civil and Construction Engineering

Title: Arctic Water Level Observing using GNSS-R

Total Award: AOOS/Axiom \$33,995 (5-Years)

Proposal FFO: NSF AON (National Science Foundation, Arctic Observing Network) 16-595 Program Solicitation

Proposal Due: April

Project PI: Jihye Park (OSU)

Project AOOS PI: Carol Janzen

Proposed Project Period: 2020-2025

Brief Description: The project PIs will collaborate with AOOS and the Alaska Water Level Watch (AWLW) working group. This collaboration will assist in GWOS (GNSS-R Water level Observing System) installation site selections, data quality reviews, and will ultimately make the water level observation data derived during this project available for inclusion on AOOS's publicly accessible statewide data portal. AOOS will also provide outreach support and will maintain a project webpage throughout the project. AOOS is currently developing a prototype water levels data portal to provide access to non-NWLON (Tier B) water level data products and tools similar to those available on the NOAA CO-OPs Tides and Currents website. This data portal will be the target location for data generated on this project, and will inform the data portal development on how to make GNSS observations deliverable at an operational level. If successful, and AON decides to increase GNSS-R capabilities in the region, AOOS will be well positioned to be involved in implementation and prioritizing station locations.

NOAA Ocean Acidification Program: Regional Vulnerability Assessments for Ocean Acidification

Status: PENDING. Submitted April 2020 to NOAA OAP (Ocean Acidification Program)

Lead Institution submitting proposal: NOAA Alaska Fisheries Science Center

Title: Evaluating OA vulnerability and interactions among traditional and emerging coastal Alaska industries

Total Award: \$850,000

Proposal FFO: NOAA OAP Vulnerability Assessment

Project PI: Tom Hurst (NOAA AFSC)

AOOS collaborator: Darcy Dugan (unfunded)

Proposed project period: 9/1/2020 – 8/31/2023

Brief Description: This project will develop decision support tools that incorporate the risks of ocean acidification into localized, coupled socioecological systems to support coastal communities. Producing network models in collaboration with community members and resource industry representatives will improve stakeholder knowledge of system dynamics, interactions, and potential adaptive strategies. Stakeholder input to network models will be gathered through a series of participatory workshops. Network models capture links between and among environmental drivers, ecosystems, and economic and social systems. Stakeholders will assist in characterizing network links such as social and economic dependencies on marine resources and adaptive capacities and strategies. A key outcome of this work is identifying how system structure, networks, and characteristics influence the ability of communities and industries to respond to OA. AOOS and the Alaska Ocean Acidification will engage with project PIs, participate in the meetings and provide input.

PROPOSALS APPROVED FOR FUNDING

Requested proposal by ONR and BOEM

Status: Submitted Feb 28, 2020 to ONR, Approved May 2020

Lead Institution submitting proposal: Alaska SeaLife Center on behalf of Alaska Ocean Observing System

Title: Animal Telemetry Network - Data Assembly Center: Advancing the coordination, techniques and data integration for animal biologging and environmental observations to support region-specific decision making

Total Award: \$700,000 (2-Years)

Proposal BAA: BAA Number: N00014-20-S-B001

Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science & Technology 20-001

Proposal Submitted: Feb 28, 2020

Project PI: Molly McCammon (AOOS)

Project Period: 10/1/20 – 9/30/22

Brief Description: The U.S. Animal Telemetry Network Data Assembly Center (ATN-DAC) provides a national mechanism to facilitate and empower an alliance among Federal [Office of Naval Research (ONR), National Oceanic and Atmospheric Administration (NOAA), Bureau of Ocean Energy Management (BOEM), and the Integrated Ocean Observing System (IOOS)] and non-Federal entities to coordinate aquatic animal telemetry research, support data analysis, and develop infrastructure to support data sharing. This proposal describes how the ATN-DAC will be enhanced to increase the coordination of biologging research activities and improve standardization and efficiency in the handling and integration of marine animal telemetry data together with physical oceanographic information. Ultimately, this project will augment the capabilities of the broader ocean science community to manage, share, and use telemetry datasets, which will result in improved biological and ecosystem-based management decisions that are informed by the data synthesis, integration, and tool development activities of this project.

PROPOSALS IN PREPARATION

NOAA IOOS Program 5-Year proposal 2021-2026

Status: In preparation

Lead Institution submitting proposal: The Alaska Ocean Observing System

Title:

Total Award: up to \$6 million a year (total 5-year AOOS \$30 million)

Proposal FFO: pending

Proposal Due: December 30, 2020

Project PI:

Proposed Project Period: 2021-2026

Brief Description:

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