

Effects of Sea Level Rise (ESLR) Technical Assistance

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NOTICE OF FUNDING OPPORTUNITY

EXECUTIVE SUMMARY

Federal Agency Name(s): National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce

Funding Opportunity Title: Effects of Sea Level Rise (ESLR) Technical Assistance

Announcement Type: Initial

Funding Opportunity Number: NOAA-NOS-NCCOS-2023-2007719

Federal Assistance Listings Number: 11.478, Center for Sponsored Coastal Ocean Research - Coastal Ocean Program

Dates: The required letters of intent (LOI) should be sent by e-mail to nccos.grant.awards@noaa.gov and must be received by 11:59 p.m. Eastern Time on January 25, 2023. Responses to LOIs should be expected by February 3, 2023.

Full applications must be received and validated by Grants.gov by 11:59 p.m. Eastern Time on March 15, 2023. Electronic submissions received after the deadline will not be considered.

Investigators are advised to submit full applications well in advance of the deadline as a precaution against unanticipated delays. Applicants must register with Grants.gov before submitting application materials. When developing your submission timeline, keep in mind the following information regarding application submission on Grants.gov:

1. Grants.gov requires applicants to complete a free annual registration process in the electronic System for Award Management (SAM), which may take between three and five business days or as long as several weeks to process as described in Section IV.G. of this Announcement.
2. If you submit a full application via Grants.gov, you will receive a series of email notifications for up to two business days before learning via validation or rejection whether NOAA has received your application.

If use of Grants.gov is not feasible, contact the NCCOS Grants Administrator (see section VII for contact information) as soon as possible and no later than a week before the due date to assess whether alternative arrangements can be made.

Funding Opportunity Description: The purpose of this document is to advise the public that

NOAA/NOS/National Centers for Coastal Ocean Science (NCCOS)/Competitive Research Program (CRP) [formerly Center for Sponsored Coastal Ocean Research/Coastal Ocean Program] is soliciting proposals for the Effects of Sea Level Rise Program (ESLR) Technical Assistance. The ESLR program name was shortened in 2020, and was formerly known as the Ecological Effects of Sea Level Rise Program (EESLR). ESLR is a multidisciplinary research program that emphasizes the use of integrated models and tools of dynamic physical and biological processes capable of evaluating vulnerability and resilience of our coasts under multiple sea level rise (SLR), inundation, and management scenarios to inform coastal restoration, land management, and planning activities.

The overall goal of this solicitation is to facilitate informed adaptation planning and coastal management decisions that account for the effects of SLR and climate change through support and leveraging of mature modeling approaches by investigators supported by ESLR and EESLR projects. This solicitation aims to support approaches capable of evaluating the performance of natural and conventional flood mitigation projects and policy changes to subsequently inform the development of applications to other granting programs that can support the flood mitigation projects and planning exercises. The term mature references that the model must be capable of providing the capacity requested without further advancement or substantial data collection. In particular, proposals will support the development of information to enable more innovative applications by coastal decision makers to the National Fish and Wildlife Foundation (NFWF) National Coastal Resilience Fund (NCRF) and the Federal Emergency Management Agency (FEMA) Building Resilient Infrastructure and Communities (BRIC) program, and others where applicable.

Funding is contingent upon the availability of Fiscal Year 2023 Federal appropriations. It is anticipated that at least \$250,000 may be available in Fiscal Year 2023 for the first year for all projects combined. If funds become available for this program, 1-2 projects are expected to be funded at the level of \$50,000 to \$250,000 per year per proposal. Projects are expected not to exceed \$500,000 or 2 years in duration. NCCOS/CRP may reject any proposals submitted with an annual budget that is greater than \$250,000 for any year. It is anticipated that projects funded under this announcement will have a September 1, 2023 start date, however a future fiscal year start date is possible, pending appropriations.

NOAA encourages applicants and awardees to support the principles of diversity, equity, and inclusion when writing their proposals and performing their work. Diversity is defined as the mixture of the unique attributes that shape an individual's identity which they bring into the workplace to help NOAA accomplish its goals (NOAA 2020). Diversity refers to demographic diversity (e.g., race, gender, sexual orientation), experiential diversity (e.g., affinities, hobbies, and abilities), and cognitive diversity (e.g., sensory processing and problem solving). Equity is

defined as the consistent and systematic fair, just, and impartial treatment of all individuals, including individuals who belong to underserved communities that have been denied such treatment (White House 2021, Executive Order 13985 2022). Inclusion is defined as a culture that values the unique attributes of all team members. Inclusion is an environment which is respectful, collaborative, supportive, and one that allows for equal access (NOAA 2020). Inclusion requires active and intentional engagement on the part of everyone and provides a feeling of belonging. Promoting diversity, equity, and inclusion improves creativity, productivity, and the vitality of the research community in which NOAA engages.

The required LOI should be sent by e-mail to nccos.grant.awards@noaa.gov. Full proposals will not be considered if a LOI was not submitted by the LOI due date.

Full proposals should be submitted through Grants.gov, <http://www.grants.gov>. Sign up to receive any potential amendments to this Announcement via www.grants.gov.

FULL ANNOUNCEMENT TEXT

I. Funding Opportunity Description

A. Program Objective

1. Overview of the NCCOS Competitive Research Program

The Competitive Research Program (CRP), part of the National Oceanic and Atmospheric Administration (NOAA) National Centers for Coastal Ocean Science (NCCOS), supports the development of actionable information and tools that improve how the nation protects, manages, and conserves ocean and coastal ecosystems. NCCOS/CRP funds regional-scale and targeted research through a competitive, peer-reviewed process to address our Nation's most pressing issues including harmful algal blooms and hypoxia research as authorized under the Harmful Algal Bloom and Hypoxia Research and Control Act, coastal resiliency, sea-level rise, ocean acidification, mesophotic coral ecosystems, and effective ecosystem-based management.

Research supported by NCCOS/CRP seeks to produce actionable information and user-driven products that will enable resource managers to assess management and policy strategies, as well as increase scientific understanding on issues threatening ecosystems and communities. To accomplish this, NCCOS/CRP emphasizes a collaborative research process that involves resource managers, planners, policymakers, and impacted communities as research project partners or advisors. To ensure useful results, NCCOS/CRP requires articulation of outcomes that benefit management in proposals and recipients must report progress toward achieving outcome-based goals annually (see Section IV.B.).

2. Effects of Sea Level Rise Program Objectives and Terminology

a. Responding to the growing problem of sea level rise and coastal flooding impacts.

Rising sea level represents a significant threat to coastal communities and ecosystems through land loss, altered habitats, and increased vulnerability to coastal storms, nuisance flooding, and wave run-up. Trends in increasing coastal sea level have been well documented and are expected to continue increasing, if not accelerate, in the coming decades (Sweet et al. 2022). While global consequences of SLR provide a sobering assessment for possible coastal conditions in the future, significant variability in the rates of SLR and response

of ecosystem types and impacts at the regional and local level exists. The actual impact from a given sea level in a region varies substantially given the shoreline geomorphology, development, and human response (e.g., beach nourishment) to changes. Damages and economic losses could be reduced with improved knowledge on the potential impacts of SLR and coastal flooding as well as options for mitigation and adaptation (FEMA 2021).

b. Effects of Sea Level Rise Program

Providing the scientific foundation for coastal decision making, particularly related to SLR and coastal flooding, is a high priority need identified by NOAA. To address this need, NCCOS's ESLR Program has sought to develop a suite of science products and tools required to assess coastal vulnerability and solutions to SLR and inundation. Application of these tools allows for improved coastal planning, management, mitigation, and ecosystem restoration in response to sea level rise and inundation.

A detailed explanation of all past and current projects can be found at: <https://coastalscience.noaa.gov/research/coastal-change/ecological-effects-sea-level-rise-program>.

This funding opportunity aims to build on this foundation by investing in the application of mature modeling approaches developed under these research projects to support innovative projects that apply existing advanced modeling approaches to evaluate land management actions, flood mitigation designs, and policy scenarios under climate scenarios to inform future restoration and flood mitigation project applications.

c. Defining use of "NNBF":

The document uses the term Natural and Nature-based Features (NNBF), which have gained traction as a means to enhance coastal resilience and mitigate the potential impacts of extreme events, SLR and inundation to coastal communities, while offering non-protective societal and ecosystem benefits (White House Interagency Workgroup 2022; White House Council on Environmental Quality 2022; Bridges et al. 2015). NNBF refer to a spectrum of features from natural coastal ecosystems (e.g. marshes and dunes) to nature-based features that utilize a combination of natural and human engineered features to create a 'hybrid' shoreline (Sutton-Grier 2015). Specifically, NCCOS/CRP defines NNBF as:

- Natural features are existing ecosystems including forests, wetlands, floodplains, dune systems, seagrasses, barrier islands and reefs that provide multiple benefits to communities, such as storm protection through wave attenuation or flood storage capacity and enhanced water services and security.
- Nature-based features (or green/gray infrastructure) are engineered systems where natural features are combined with hard or structural engineering approaches to create a hybrid system such as in a living shoreline.

Unlike hardened structures (e.g. bulkheads and groins), NNBF are often living features that can adapt to changing conditions and may become more stable over time, while providing multiple ecological and socio-economic benefits to coastal communities and ecosystems (Bridges et al. 2021, White House 2022). In recent years, there has been considerable effort among multiple levels of government, non-governmental organizations, scientists, and private interests to advance the use of NNBF (White House 2022). While these features often have perceived intrinsic value, quantification of both their current and long-term capabilities and performance has been limited. A key need of our stakeholders is the ability to quantitatively assess a range of policy, NNBF, conventional, and hybrid flood mitigation designs simultaneously within a particular planning region. For the purpose of this solicitation, nature-based solutions and NNBF may be used interchangeably.

d. Defining use of “proposal” and “application” in this solicitation:

In this document, the term “proposal” will reference proposals requested by this solicitation and the requirements we have for the proposals; while “application” will be used to reference applications to other programs that proposals selected from this solicitation could inform.

e. Defining the term “coastal decision makers”:

The term “coastal decision makers” will be used throughout to reference those that can utilize science to improve coastal resilience including those that take part in planning, emergency management, foreshore and tidal land management, natural resource management, structural engineering, or policy implementation.

B. Program Priorities

1. Overview of Priorities

NCCOS/CRP is soliciting proposals that will foster more innovative applications to flood mitigation funding programs. Selected projects will evaluate the performance of flood mitigation designs, policy changes, and coastal plans to help applicants applying to other programs defend their planned course of action. A selected project will need to be capable of predicting the impacts of inundation, as well as assessing the, social, economic, and ecological merits of actions under a range of climate scenarios. Selected project teams will work with a group of end users including those interested in applying for BRIC and NCRF funding.

For example, proposals might aim to inform applications to BRIC by underserved communities, including applications developed through support by FEMA's Direct Technical Assistance Program (DTA) (FEMA 2022). If DTA is approved for a community within the identified region of a proposal, the research team might evaluate flood mitigation options that could help the underserved communities create innovative applications to BRIC. Similarly, a project might aim to inform a planning and capacity building effort funded under NCRF, helping lead to subsequent proposals to NCRF for design, engineering, and construction of restoration projects.

2. Outlining Targeted Programs to support

Proposals should clearly demonstrate the value added of the proposed work, partnerships, and, where possible, leverage related regional efforts (e.g., NCRF grants and/or state/local initiatives). Proposals should discuss how coastal decision makers interested in applying for BRIC and NCRF could apply outputs from their project to enhance the quality of applications. Relationships with these types of coastal decision makers are not required (or necessary) at the proposal stage, though an understanding of the types of projects and plans to be considered will be important and a process for engagement should be described. NFWF and FEMA will play a supporting role in these connections as part of the funded project. Tailored feedback on concepts within your region will be provided as part of the LOI feedback (see IV.B.1 for details). More information on these programs is found here:

- a. National Fish and Wildlife Foundation (NFWF) National Coastal Resilience Fund (NCRF)
 - The NCRF aims to increase and strengthen natural infrastructure to protect

coastal communities while also enhancing habitats for fish and wildlife. Established in 2018, the NCRF invests in conservation projects that restore or expand natural features such as coastal marshes and wetlands, dune and beach systems, oyster and coral reefs, forests, coastal rivers and floodplains, and barrier islands that minimize the impacts of storms and other naturally occurring events on nearby communities.

- For Details: <https://www.nfwf.org/programs/national-coastal-resilience-fund>
- A complete list of the 2021 grants is available here:
<https://www.nfwf.org/sites/default/files/2021-11/NFWFncrf20211117GSfinal.pdf>

b. Federal Emergency Management Agency (FEMA) Building Resilient Infrastructure and Communities (BRIC)

- BRIC will support states, local communities, tribes and territories as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards. The BRIC program guiding principles are supporting communities through capability- and capacity-building; encouraging and enabling innovation; promoting partnerships; enabling large projects; maintaining flexibility; and providing consistency.
- For Details: <https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities>

3. Description of Priorities

- a. Apply existing predictive approaches that are capable of predicting shoreline change and quantifying the vulnerability of coastal communities, infrastructure, and ecosystems due to SLR and inundation, based on shoreline conditions.
- b. Be able to evaluate social, economic, and ecological benefits of flood mitigation projects that include NNBF, policy actions, or plans that include a comparison of how well they protect communities, infrastructure, and ecosystems; with respect to the risk of inundation under future SLR.
- c. Develop actionable information (i.e., See section I.B.d) for applications for NCRF and/or BRIC in collaboration with coastal decision makers that would apply to acquire support for completing flood mitigation projects, land management strategies, or policy actions that increase long term coastal resilience.

Proposals incorporating predictive or scenario-based model applications should focus on the use of existing modeling platforms. The proposed work should not be dependent on model advancement or substantial field work. Ecosystem service

predictions of NNBF must explicitly include coastal protection benefits provided by the feature. The most effective proposals will outline approaches that are able to assess both protective and non-protective aspects of both natural and conventional approaches. Proposals that are able to assess multiple flood mitigation designs, at multiple locations, across a planning corridor, with consideration of phased actions will be given priority. Full proposals should describe how effectively the types of project designs shared with the applicants during the LOI process can be evaluated (see I.V.B.1 for details).

The ESLR Technical Assistance is open to all coastal regions of the United States. The lead investigator of the proposal must have been previously funded or be currently funded by the ESLR (or EESLR) program as a primary investigator (PI) or funded collaborator.

4. Desired types of actionable information:

Proposals should outline the type of actionable information a project can deliver that will be useful to help coastal decision makers develop strong applications to other programs. This could include outputs such as:

- Maps indicating inundation area, depth, and frequency/reoccurrence intervals due to SLR and storms under no-action vs. action scenarios (i.e., maps showing how policies or adaptation measures, including NNBF, would change flood risk).
- Graphs and associated data or maps of impacted resources or social impacts due to inundation under no-action vs. action/management scenarios.
- Cost-benefit analysis, specific to the agency or grant program that decision makers are targeting, to explain the performance of possible community plans, policy changes, or flood mitigation and coastal restoration actions based on inundation and management scenarios.
- Other statistics that outline the performance of community planning, NNBF, conventional flood mitigation actions, and policy changes, in their ability to reduce coastal flooding impacts of climate change.
- Metrics for SLR and coastal inundation impacts to locally valued ecosystem services (including recreational benefits) and comparison metrics for when NNBF approaches are applied.
- Simple design standards for NNBF within a region based on more advanced model evaluation.
- Technical narratives supporting the grant application, including the cost-benefit analysis.

Within this context of delivering information to end users, applicants should outline their experience with highly integrated and collaborative management-science approaches and outline the type of continuous engagement process that they would utilize during the two-year project. Proposals should outline the applicant's experience working iteratively with potential end users of science outputs. Inclusion of a science extension professional or a boundary-spanning organization (e.g. Schwartz et al. 2021) with experience working with end users in the region of interest is strongly encouraged.

5. References

- (1) Bridges, T. S., J. K. King, J. D. Simm, M. W. Beck, G. Collins, Q. Lodder, and R. K. Mohan, eds. 2021. International Guidelines on Natural and Nature Based Features for Flood Risk Management. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- (2) Executive Order 13985. 2022. EO On Advancing Racial Equity and Support for Underserved Communities Through the Federal Government.
<https://www.doi.gov/ppa/equity/13985>.
- (3) FEMA. 2022. BRIC Direct Technical Assistance.
<https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities/direct-technical-assistance>
- (4) FEMA. 2021. Building Community Resilience with nature-based solution; A guide for Local Communities.
https://www.fema.gov/sites/default/files/documents/fema_riskmap-nature-based-solutions-guide_2021.pdf
- (5) The White House. 2021. Government-Wide Strategic Plan To Advance Diversity, Equity, Inclusion. Accessibility In The Federal Workforce. Nov. 2021.
<https://www.whitehouse.gov/wp-content/uploads/2021/11/Strategic-Plan-to-Advance-Diversity-Equity-Inclusion-and-Accessibility-in-the-Federal-Workforce-11.23.21.pdf>.
- (6) NOAA. 2020. NOAA FY2020-2024 Diversity and Inclusion Strategic Plan. 2020.
<https://www.noaa.gov/sites/default/files/legacy/document/2020/Dec/NOAA%202020-2024%20Diversity%20and%20Inclusion%20Strategic%20Plan.pdf>.

(7) Schwartz, M.W., Fleishman, E., Williamson, M.A., Williams, J.N., Morelli, T.L. 2021. The Use of Boundary-Spanning Organizations to Bridge the Knowledge-Action Gap in North America. In: Ferreira, C.C., Klütsch, C.F.C. (eds) Closing the Knowledge-Implementation Gap in Conservation Science. Wildlife Research Monographs, vol 4. Springer, Cham. https://doi.org/10.1007/978-3-030-81085-6_9

(8) Sweet, W.V., B.D. Hamlington, R.E. Kopp, C.P. Weaver, P.L. Barnard, D. Bekaert, W. Brooks, M. Craghan, G. Dusek, T. Frederikse, G. Garner, A.S. Genz, J.P. Krasting, E. Larour, D. Marcy, J.J. Marra, J. Obeysekera, M. Osler, M. Pendleton, D. Roman, L. Schmied, W. Veatch, K.D. White, and C. Zuzak, 2022: Global and Regional Sea Level Rise Scenarios for the United States: Updated Mean Projections and Extreme Water Level Probabilities Along U.S. Coastlines. NOAA Technical Report NOS 01. National Oceanic and Atmospheric Administration, National Ocean Service, Silver Spring, MD, 111 pp.
<https://oceanservice.noaa.gov/hazards/sealevelrise/noaa-nostechrpt01-global-regional-SLR-scenarios-US.pdf>

(9) White House Council on Environmental Quality. 2022. White House Office of Science and Technology Policy, White House Office of Domestic Climate Policy, 2022. Nature-Based Solutions Resource Guide. Washington, D.C.

(10) White House Interagency Workgroup. 2022. Workgroup includes: National Oceanic and Atmospheric Administration, Federal Emergency Management Agency, Department of Housing and Urban Development, Department of Defense, Army Corps of Engineers, Department of the Interior, Department of Transportation Environmental Protection Agency, National Aeronautics and Space Administration, Department of Agriculture AmeriCorps, Department of Homeland Security. 2022. Compendium of Federal Nature-based resources for coastal communities, states, tribes, and territories. White House Interagency workgroup.
<https://www.noaa.gov/sites/default/files/2022-04/Nature-based-Solutions-Compendium.pdf>

C. Program Authority

Coastal Zone Management - Technical Assistance, 16 USC 1456c

II. Award Information

A. Funding Availability

Funding is contingent upon the availability of Fiscal Year 2023 Federal appropriations. It is anticipated that up to approximately \$250,000 may be available in Fiscal Year 2023 for the first year for all projects combined. If funds become available for this program, 1-2 projects are expected to be funded at the level of \$50,000-250,000 per year per proposal. Projects are expected not to exceed 2 years in duration. NCCOS/CRP may reject any proposals submitted with an annual budget that is greater than \$250,000 for any year.

B. Project/Award Period

Full applications may cover a project/award period up to 2 years. Awards are slated to begin September 1, 2023 and the ending dates will be either August 31, 2024 or 2025 depending on whether the organization has been awarded a one or two year award.

Awards may be funded incrementally, generally on an annual basis, but once awarded, those awards will not compete for funding in subsequent years. Once approved, full applications are not required for the continuation in the out years. While applicants are not required to divide Federal assistance project activities into annual increments based on appropriations law, this approach may be constructive given the possibility that funding may not be available in subsequent years.

Funding for each year's activity is contingent upon the availability of appropriations, satisfactory performance, and is at the sole discretion of the agency.

During the implementation phase of research projects funded under this Announcement, regardless of the funding mechanism used, NCCOS/CRP Program Managers will analyze financial statements and progress reports for each continuing award, and will have dialogue with the PIs and Authorized Representatives of the recipient institutions to discuss research progress and expected timelines for the remaining award period. If NOAA experiences budget fluctuations in future fiscal years, the amount of funding provided in any given fiscal year will be determined on a project-specific basis by the remaining tasks to be completed, the overall pace of the research and the length of time remaining on the award, and/or across the board reductions or increases based on the overall funds available.

Regardless of the budget for any given fiscal year, NCCOS/CRP Program Managers will consider the length of time remaining for each project, the amount of funds available, the tasks to be completed in the upcoming fiscal year, the pace of research, and any delayed progress relative to that originally proposed, before determining the funding amount in any given fiscal year.

C. Type of Funding Instrument

In an effort to maximize the use of limited resources, applications from non-Federal, non-NOAA Federal, and NOAA Federal applicants will be evaluated in the same competition, with different funding instruments applicable to the type of applicant.

The funding instrument for a research application selected for funding from a non-Federal researcher is expected to be a cooperative agreement. A cooperative agreement is appropriate when substantial Federal government involvement is anticipated. This means that the recipient can expect substantial agency collaboration, participation, or intervention in project performance. Substantial involvement exists when: responsibility for the management, control, direction, or performance of the project is shared by the assisting agency and the recipient; or the assisting agency has the right to intervene (including interruption or modification) in the conduct or performance of project activities. "Substantial involvement" will be coordinated and communicated by NCCOS/CRP Program Managers, and can include collaboration and participation by NOAA (but see section III.A.5-6), as well as NCCOS/CRP Program Manager involvement in PI meetings, setting up management advisory groups, development of management transition plans, and communication of project results.

If the non-Federal applicant is at an institution that has a NOAA Cooperative Institute (CI), <https://ci.noaa.gov/>, it is allowed to submit applications that reference the CI by attaching a cover letter to the application stating its desire to have the application associated with the CI. This letter should specify the name of the CI, the CI cooperative agreement number, and the NOAA-approved research theme and task that applies to the proposal. The application will use the Facilities & Administrative (F&A, or indirect cost) rate associated with the main CI agreement. If the application is selected for funding, NOAA will notify the university that a separate award will be issued with its own award number. However, the award will include two Special Award Conditions (SACs): (1) the existing University/NOAA Memorandum of Agreement (MOA) would be incorporated by reference into the terms of the competitive award, and (2) any performance report(s) for the competitive project must follow the timetable of the funding program and be submitted directly to the funding program.

Report(s) will be copied to the CI's administrator when due, to be attached to the main cooperative agreement progress report as an appendix. This will allow the CI to coordinate all the projects submitted through the CI, since the terms of these awards will specify that this is a CI project via the MOA.

If the non-Federal applicant is at an institution that has a NOAA approved Cooperative Ecosystem Studies Unit (CESU), <http://www.cesu.psu.edu/>, and meets the criteria described below for using that status, they may include a cover letter with their application stating their desire to have the application associated with that CESU. This letter should specify the name of the CESU. Of the 17 CESUs across the nation, NOAA is a member of 10: North and West Alaska, California, Hawaii-Pacific Islands, South Florida-Caribbean, Gulf Coast, Piedmont- South Atlantic Coast, Chesapeake Watershed, North Atlantic Coast, Pacific Northwest, and Great Plains. The following criteria must be met for NOAA to use the established partnerships with CESUs:

1. The proposed project must fit within the objectives of the National CESU Network Program, which are to provide research, technical assistance, and education to Federal land management, environmental, and research agencies and their partners in biological, physical, social, cultural, or engineering disciplines needed to address natural and cultural resource management issues at multiple scales and in an ecosystem context.
2. The proposed project must fit the intent of the CESU's existing cooperative and joint agreement, which means (1) the research partnership will carry out or stimulate an activity (e.g., data, products, or services) for a public purpose, and (2) NOAA will be significantly involved in the work.

The funding instrument for a selected application from an eligible NOAA Federal applicant will be an intra-agency transfer of funds.

The funding instrument for a selected application from a non-NOAA Federal applicant will be through an inter-agency transfer of funds, provided legal authority exists for the Federal applicant to receive funds from another agency. Non-NOAA Federal applicants that intend to be the lead institution should contact the NCCOS Grants Administrator (refer to Section VII) to discuss how to structure budgets and prepare required documentation. PLEASE NOTE: Before non-NOAA Federal applicants may be funded, they must demonstrate that they have applicable legal authority for an inter-agency transfer of funds.

Support may be solely through NCCOS/CRP or partnered with other Federal offices and agencies. Unfunded proposals may be shared with other NOAA offices or other Federal Agencies for the purposes of collaboration and eliminating duplication.

The intra- and inter-agency transfers of funds are not Federal assistance (grants or

cooperative agreements), and the policies described in this Announcement applicable to Federal assistance awards do not apply to Federal entities receiving intra- and inter-agency transfers of funds. In the agreements implemented in these situations, NOAA will be substantially involved in the projects in a manner similar to the cooperative agreements with non-Federal parties. Contact the NCCOS Grants Administrator for more information (refer to Section VII).

III. Eligibility Information

A. Eligible Applicants

Eligible applicants for Federal financial assistance in this competition are U.S. institutions of higher education, other non-profits, state, local, Indian Tribal Governments, U.S. Territories, and for-profit organizations. Federal agencies that possess the statutory authority to receive transfers of funds are eligible to submit applications for intra- or inter- agency funds transfers through this competition. Department of Commerce (DOC)/NOAA supports cultural and gender diversity and encourages women and minority individuals and groups to submit applications to its programs. In addition, DOC/NOAA is strongly committed to broadening the participation of historically black colleges and universities, Hispanic serving institutions, tribal colleges and universities, and institutions that work in underserved areas. DOC/NOAA encourages applications involving any of the above institutions to apply. The lead investigator of the proposal must have been previously funded or be currently funded by the ESLR (or EESLR) program as a primary investigator (PI) or funded collaborator.

Please note that:

- PIs must be employees of an eligible entity listed above; and applications must be submitted through that entity. Non-Federal researchers should comply with their institutional requirements for application submission.
- Non-Federal researchers affiliated with NOAA-University Cooperative/Joint Institutes will be funded through cooperative agreements.
- Foreign researchers must apply as subawards or contracts through an eligible U.S. entity.
- Federal applicants are eligible to submit applications for intra- or inter-agency funds transfers through this competition. Non-NOAA Federal applicants will be

required to submit certifications or documentation showing that they have specific legal authority to accept funds for this type of research.

- An eligible U.S. entity may propose Federal agency researchers as funded or unfunded collaborators. If Federal agency researchers are proposed as funded collaborators, the applicant should present the collaborator's funding request in the application in the same way documentation is provided for a subrecipient for purposes of project evaluation, even though intra- or inter-agency funding transfers will generally be used if the project is selected.
- NCCOS researchers may apply through an eligible U.S. entity as funded or unfunded collaborators, but cannot be the lead PI on the application. NOAA Federal salaries will not be paid.
- The lead investigator must have been funded on a prior or current ESLR or EESLR research project.
- Proposals for studies that solely consider benefits and/or ecosystem services that do not directly relate to SLR and/or coastal flood protection will not be considered.

B. Cost Sharing or Matching Requirement

None

C. Other Criteria that Affect Eligibility

Each application must substantially comply with the 10 elements listed under Section IV.B(c) Content and Form of Application: Required Elements (1) - (10), or it will be returned to sender without further consideration. A checklist with the required and requested application elements can be found in Section VIII.

IV. Application and Submission Information

A. Address to Request Application Package

Proposal materials are available at <http://www.grants.gov> as part of the electronic proposal package. Please contact the NCCOS Grants Administrator (see section VII) should you have an issue accessing the materials.

B. Content and Form of Application

1. Letter of Intent (LOI)

LOIs are required. Any full proposals submitted without a prior timely LOI submission will not be considered. The purpose of the LOI process is to provide information to potential applicants on the relevance of their proposed project and the likelihood of it being competitive in advance of preparing a full application. Full applications will be encouraged only for LOIs deemed relevant; however, the final decision to submit a full proposal is made by the investigator. The LOI should provide a concise description of the proposed work and its relevance to this FFO. The LOI should be no more than two pages (front only) in length, single spaced in 12-point font with 1-inch margins and should include in order the components listed below. If all these components are not included or the LOI is late, the LOI will not be considered.

CRP Program Managers will review each LOI to determine whether it is responsive to the program's goals, as advertised in this notice. Letters or emails to encourage or discourage a full application are scheduled to be sent out approximately two weeks after the LOI due date. In response to the LOI, a list of example project designs inspired by BRIC and NCRF proposals from the region will be provided to the investigators. A successful full application will describe the capacity of the proposed modeling approach to assess the flood mitigation performance and other performance attributes of these types of hazard mitigation and coastal restoration project designs. If all these components are not included, the LOI will not be considered:

- a. Tentative project title.
- b. Name(s) phone number(s), email address(s) and institution(s) of all Principal Investigator(s), and specification of which individual is the Lead Principal Investigator.
- c. Name of investigator funded by ESLR or EESLR.
- d. Approximate cost of the project.
- e. Statement of the problem and its management relevance.
- f. Brief summary of work to be completed, methodology to be used, and the plan for engaging with the coastal decision makers.
- g. Brief description of relevant outputs that can be delivered by methodology.

2. Full Application

- a. Example Application

A sample application package and other guidance can be found under “Information for Applicants” located on the NCCOS website at:
<https://coastalscience.noaa.gov/about/funding-opportunities/application-forms/>.

b. Collaborative Proposals

If more than one institution is collaborating in a project awarded funds, the lead institution will be the only institution to directly receive funds from NOAA and will be responsible for distributing funds to the partner institutions with the exception of Federal agency partners. Federal agencies will be funded with either intra- or inter-agency agreements initiated by NCCOS. Only one full proposal per project must be submitted via grants.gov. Collaborating institutions expected to receive funds must be budgeted as subawards or contracts in the submitted proposal and provide the lead institution with their documents for submission by the lead. Unfunded collaborators may also participate.

c. Required Elements

Each application must substantially comply with the following 10 elements to be forwarded for merit review. The Summary Title Page, Abstract, Project Description, Optional References, Biographical Sketch, and Budget Narrative must be single spaced in 12-point font with one- inch margins. The Collaborators List must be an Excel spreadsheet. The 10 elements are as follows:

- (1) Standard Form 424. The applicant must submit the Standard Form, SF-424, “Application for Federal Assistance,” to indicate the total amount of funding proposed for the whole project period. This form is to be the cover page for the original application and is the first required form in the grants.gov application package.
- (2) Summary Title Page. One-page maximum. The Summary Title Page identifies the project's title and the PI’s name, affiliation, complete address, phone, and email information. The requested funding amounts for each fiscal year should be included on the Summary Title Page. If this proposal is a resubmission from a previous NCCOS competition, indicate that information on the Summary Title Page.
- (3) One-page Abstract/Project Summary. The summary (abstract) should

appear on a separate single page, headed with the proposal title, institution(s), investigator(s), total proposed cost, and budget period. It should be written in the third person. The project summary should include an introduction of the location of focus and type of management and coastal decisions that can be informed by the approach, a brief summary of the approach, and an explanation of the types of outputs that can be generated that would be relevant to coastal planning and proposals that communities or natural resource managers would develop for support by other programs. The summary is used to help compare proposals quickly and allows the respondents to summarize their key points in their own words. Project summaries of applications that receive funding may be posted on program-related websites.

- (4) Project Description. The description of the proposed project must include four narrative sections: the Proposed Research, its Application to Management, a Data Management Plan, and a statement of Diversity and Inclusion. The proposal shall not exceed more than: six pages for the description of the Proposed Research and Application to Management; two pages for the Data Management Plan; and one page for the statement of Diversity and Inclusion. These four sections must include the information as described below.

(a) Proposed Research

The Proposed Research narrative section should be thorough and explicitly indicate its relevance to the program goals and scientific priorities by:

- i. Identifying the topic that is being addressed by the proposal;
- ii. Describing the proposed scientific objectives and research activities in relation to the present state of knowledge in the field and in relation to previous and current work by the proposing PI(s);
- iii. Discussing how the proposed project lends value to the program goals; and
- iv. Identifying the function of each PI. The Lead PI will be

responsible for communicating with the NCCOS/CRP Program Manager on all pertinent verbal or written information.

[Note: If the proposal is a resubmission from a previous competition, any concerns identified with the Project Description in the previous review process and provided to the applicant(s) should be addressed in the resubmitted proposal.]

(b) Application to Management

The Applications to Management Narrative should establish the connection to relevant resource management needs by explicitly identifying the end user group(s) including evidence of the linkage between the scientific questions and management needs. The format and commitment to engaging with coastal decision makers (see Section I.B.) should be included in this section. The narrative should provide the management justification for the research by:

- i. Articulating the coordination with one or more end users.
- ii. Discussing the expected significance of the project to management priorities and needs. Specific management targets, with proposed outputs and outcomes, should describe how this project will improve management capabilities. Outputs are defined as products (e.g., publications and models) or activities that lead to outcomes (changes in management knowledge or action). Definitions and examples of outputs and outcomes can be accessed at:
<https://coastalscience.noaa.gov/about/funding-opportunities/outputs-and-outcomes>.
- iii. Describing specific activities, such as workshops or development of outreach materials, that will enhance information transfer from project scientists to relevant management entities, other end-users, or the public.
- iv. If the proposal includes a project advisory committee, such as a MTAG or Technical Advisory Committee, describing the structure, size, and activities of the advisory committee,

particularly by including a plan for how the committee will engage with project PIs. Members of the advisory committee should be named, when possible. Letters may be included, but are not required, to indicate that they have agreed to serve on the advisory committee; these letters do not count against the page limits.

(c) Data Management Plan

Proposals must provide a detailed Data Management Plan that describes how metadata and data collected as part of the project will be disseminated to the broader community, and plans for longer term archiving of these data. PIs that propose to collaborate with data centers or networks, except the National Center for Environmental Information (NCEI), are advised to obtain letters of commitment that affirm the collaboration. Where possible, all PIs are strongly encouraged to use existing data centers and data portals to archive and disseminate their data. Costs associated with use of data centers, or data archiving, should be included in the application budget. See the section on the NOAA Data Reporting requirements in Section VI.C.

(d) Statement of Diversity and Inclusion

NOAA recognizes that it has a particular and unique opportunity to support NOAA's commitment to diversity, equity, and inclusion by taking an intentional step that encourages program applicants to consider the principles of diversity, equity, and inclusion as part of their scientific projects. This action has the potential to make an impact on not only the diversity, equity, and inclusion in science at NOAA, but also beyond the agency. In this section, describe how well the proposed project incorporates the principles of diversity, equity, and inclusion. Examples could include, but are not limited to, broadening the participation of underrepresented groups; partnering with underserved communities to ensure relevant science, services and tools reach decision-makers; partnering with minority serving institutions or programs that promote diversity in science, technology, engineering, and mathematics (STEM); having a diverse project team and MTAG across several factors (e.g., sectors, age, career stage,

gender, ethnicity, disability, geography, etc.); encouraging diverse perspectives from project team members and partners; and or fostering an inclusive environment that empowers and engages all team members.

(5) Biographical sketch. All PIs and co-PIs must provide summaries of up to two pages that include the following:

- (a) A listing of professional and academic credentials and mailing address; and
- (b) A list of up to five publications most closely related to the proposed project and five other significant publications.

(6) Budget Narrative. In order to allow reviewers to fully evaluate the appropriateness of costs, all applications must include a detailed budget narrative to support all proposed budget categories for each fiscal year. For additional budget guidance

<https://drive.google.com/file/d/19Xqq8FRaTa5lkwFCDeIvrves9NNK9DeP/view>

Personnel costs should be broken out by named PI, number of months, and percentage of time requested per year per PI. Any unnamed personnel (graduate students, post-doctoral researchers, technicians) should be identified by their job title, and their personnel costs explained similar to PI personnel costs. The contribution of any personnel to the project goals should be explained.

Travel costs should be broken out by number of people traveling, destination and purpose of travel, and projected costs per person (i.e., hotel rate, meals and incidentals, and transportation). Registration fees belong in the “h. other” category in the SF424A and budget justification.

Equipment costs should describe the equipment to be purchased, and its contribution to the achievement of the project goals.

Any ship time needs must be clearly identified in the proposed budget. The applicant is responsible for requesting ship time through appropriate channels and for meeting all requirements to ensure the availability of requested ship time. If any NOAA personnel will be present during ship

operations, vessel safety clearances must be obtained through the NOAA Office of Marine and Aviation Operations (OMAO) in advance of the cruise.

Required information and procedures are detailed in a Charter Vessel Acquisition and Safety NOAA Administrative Order which can be accessed via the OMAO website at:

<https://www.oma.noaa.gov/learn/headquarters/safety-environmental-compliance>.

If more than one institution is collaborating in a project recommended for funding, the lead institution will be the only institution to directly receive funds from NOAA unless a Federal agency is a funded collaborator. Federal agencies may be funded directly by NOAA. The lead institution is responsible for sending funds to the other subaward institutions. A separate budget narrative is required for each subaward (including Federal collaborators) and must be provided to the lead institution for submission. Signed approval from each identified subaward institution is required. For acquisition contracts, the purpose and cost or price must be fully justified and the contract must fully comply with 2 C.F.R. 200.317-.327.

Applications are permitted to include the costs of project-level data management, including: coordinating, organizing, documenting, formatting, or otherwise preparing datasets for submission to NOAA or non-NOAA data facilities; establishing and maintaining data access tools and services and related metadata; managing non-digital data that are not required to be made publicly accessible, including laboratory notebooks, preliminary analyses, drafts of scientific papers, plans for future research, peer review reports, communications with colleagues, or physical objects, such as laboratory specimens.

An applicant requesting funds for indirect costs in its proposal budget that has a current Federally approved rate should submit documentation of the indirect cost rate agreement as an attachment to its application submission. An applicant without a Federally approved rate should refer to Section IV.F. of this Announcement regarding options.

- (7) CD-511. Certification Regarding Lobbying. Lead institutions can submit these forms through the grants.gov CD-511 document placeholder without

a hard signature because electronic signatures are allowed on documents from the submitting institution.

- (8) Standard Form (SF) 424B. Assurances - Non-Construction Programs. Lead institutions can submit these forms through the grants.gov SF-424B document placeholder without a hard signature because electronic signatures are allowed on documents from the submitting institutions.
- (9) Standard Form 424A. All applicants are required to provide a SF-424A Budget Form that identifies the budget for each fiscal year of the proposal. Place each fiscal year in separate columns in Section B of page one on the SF-424A by filling in the fiscal years 1-5 in Section A Budget Summary - Grant Program Function or Activity column. (Note that this revised SF-424A Section B format is a NOAA requirement that is not reflected in the Instructions for the SF-424A). The budget figures must correspond with the descriptions contained in the Budget Narrative.

Each subaward should provide a SF-424A listing each year of funding being requested. List total subaward costs under line item 6.h. Other category and contractor costs under line item 6.f. Contractual category on the SF-424A. Signed approval from the institution of each identified subaward and contractor should be provided.

All ship costs belong in the “other” category and are not subject to indirect costs.

- (10) List of Collaborators. Provide one list that includes all (U.S. and Foreign) collaborators, advisors, and advisees for each investigator (PI, co-PIs, post-docs, and subawardees), complete with corresponding institutions. This list must include the names of each PI and co-PI. Submit only one, combined and alphabetized list per application in an Excel spreadsheet using First Name, Last Name, and Institution for the column headings. Collaborators are individuals who have participated in a project or publication within the last 48 months with any investigator, including co-authors on publications in the resumes. Collaborators also include those persons with which the investigators may have ongoing collaboration negotiations. Advisees and Advisors do not have a time limit. Advisees are persons with whom the individual investigator has had an association as thesis advisor or postdoctoral sponsor. Advisors include an individual’s own graduate and

postgraduate advisors. Unfunded participants in the proposed study should also be listed (but not their collaborators). This information is critical for identifying potential conflicts of interests and avoiding bias in the selection of reviewers.

d. Application Format and Assembly.

Workspace is the standard way for organizations or individuals to apply for Federal grants in Grants.gov. Workspace allows a grant team to simultaneously access and edit different forms within an application. Plus, the forms can be filled out online or offline.

Grants.gov Workspace also allows applicants and organizations to tailor their application workflow. Please refer to <https://www.grants.gov/web/grants/applicants/workspace-overview.html> to determine which of the three approaches your institution should take when completing a Workspace application. This page also contains resources to aid in setting up the Workspace and the application submission process.

If you experience submission problems that may result in your application being late, send an e-mail to support@grants.gov and call the Grants.gov help desk (800-518-4726). The NCCOS/CRP Program Manager for this Announcement will use programmatic discretion in accepting applications due to documented electronic submission problems. NOTE: If more than one submission of an application is performed, the last application submitted before the due date and time will be the official version.

In addition to the 10 required elements, applicants may provide the following:

- (1) Letters from unfunded collaborators, verifying their contribution to the project. These letters do not count against the page limit for the Project Description. Letters of support may also be included.

These elements can be uploaded into the Optional Form box under Other Attachments in Grants.gov.

- (2) Optional References cited. Reference information is optional. If included, each reference should include the names of all authors in the same sequence they appear in the publications, the article title, the journal or

book title, volume number, page numbers, and year of publications. While there is no established page limitation, this section should include bibliographic citations only and should not be used to provide parenthetical information outside of the Project Description.

- (3) Applications containing known subawards must provide an SF-424A and a Budget Narrative. Signed approval from the institution of each subaward and contractor should be provided. We also request submission of the indirect rate agreement for subawards, if applicable. Applicants may provide additional information similar to that requested in this section for an acquisition contract if it may help NOAA assure compliance of the contract with 2 C.F.R. 200.317-.327.
- (4) Biographical sketches and the collaborators lists should be supplied to the lead institution in order for them to be combined within the lead application information. It is the applicant's responsibility to obtain all necessary Federal, state, and local government permits and approvals where necessary for the proposed work to be conducted.
- (5) Proposals are not expected to include field work. However, in the event that field work occurs, applicants are expected to design their proposals so that they minimize potential adverse impacts on the environment. If applicable, documentation of requests or approvals of environmental permits should be received by the NCCOS/CRP Program Manager prior to funding. Applications will be reviewed to ensure that they have sufficient environmental documentation to allow program staff to determine whether the proposal is categorically excluded from further National Environmental Policy Act (NEPA) analysis, or whether an Environmental Assessment is necessary in conformance with requirements of NEPA. For those applications needing an Environmental Assessment, affected applicants will be informed after the peer-review stage, and will be requested to assist in the preparation of a draft assessment (prior to award). Failure to obtain Federal, state, and local approvals, letters of agreement, or failure to provide environmental analysis where necessary (e.g., NEPA Environmental Assessment) may delay the award of funds if a proposal is selected for funding.

Applicants to be recommended for funding will be required to answer relevant questions from the "Environmental Compliance Questionnaire for NOAA

Federal Financial Assistance Applicants:"

<https://www.nepa.noaa.gov/docs/NOAA-Grants-Questionnaire-final.pdf>. The NCCOS/CRP Program Manager will determine which questions are relevant to each specific proposal. Answers must be provided before the application can be

submitted for final funding approval.

C. Unique Entity Identifier and System for Award Management (SAM)

Each applicant (unless the applicant is an individual or Federal awarding agency that is excepted from those requirements under 2 CFR 25.110(b) or (c), or has an exception approved by the Federal awarding agency under 2 CFR 25.110(d)) is required to: (i) Be registered in SAM before submitting its application; (ii) Provide a valid unique entity identifier (UEI) in its application; and (iii) Continue to maintain an active SAM registration with current information at all times during which it has an active Federal award or an application or plan under consideration by a Federal awarding agency. NOAA may not make a Federal award to an applicant until the applicant has complied with all applicable UEI and SAM requirements and, if an applicant has not fully complied with the requirements by the time NOAA is ready to make a Federal award, NOAA may determine that the applicant is not qualified to receive a Federal award and use that determination as a basis for making a Federal award to another applicant.

To enable the use of a universal identifier and to enhance the quality of information available to the public as required by the Federal Funding Accountability and Transparency Act, 31 U.S.C. 6101 note, to the extent applicable, any proposal awarded in response to this Announcement will be required to use SAM, which may be accessed online at <https://www.sam.gov/SAM/>.

Applicants and recipients are required to continue to maintain an active SAM registration with current information at all times during which it has an active Federal award or an application or plan under consideration by a Federal awarding agency. The Federal awarding agency may not make a Federal award to an applicant until the applicant has complied with all applicable unique entity identifier and SAM requirements and, if an applicant has not fully complied with the requirements by the time the Federal awarding agency is ready to make a Federal award, the Federal awarding agency may determine that the applicant is not qualified to receive a Federal award and use that determination as a basis for making a Federal award to another applicant.

See Section IV.G. of this Announcement for more information.

D. Submission Dates and Times

Full applications must be received and validated by Grants.gov by 11:59 p.m. Eastern Time on March 15, 2023. Full applications should be submitted electronically to Grants.gov and must be received and validated by Grants.gov by the deadline. Applications received after the deadline will be rejected and returned to the sender without further consideration.

Important: All applicants should be aware that adequate time must be factored into applicant schedules for delivery of the application. Applicants are advised that volume on Grants.gov is currently extremely heavy, and if use of Grants.gov is not feasible, contact the NCCOS Grants Administrator (see section VII for contact information) as soon as possible and no later than a week before the due date to assess whether alternative arrangements can be made.

E. Intergovernmental Review

Applications under this program are not subject to Executive Order 12372, "Intergovernmental Review of Federal Programs." It has been determined that this notice is not significant for purposes of Executive Order 12866. Pursuant to 5 U.S.C. 553(a) (2), an opportunity for public notice and comment is not required for this notice relating to grants, benefits and contracts. Because this notice is exempt from the notice and comment provisions of the Administrative Procedure Act, a Regulatory Flexibility Analysis is not required, and none has been prepared. It has been determined that this notice does not contain policies with Federalism implications as that term is defined in Executive Order 13132.

F. Funding Restrictions

Indirect Costs: If an applicant does not currently have an established indirect cost rate with a Federal agency it may choose to use the de minimis indirect cost rate of 10% of Modified Total Direct Cost as allowable under 2 C.F.R. §200.414 or negotiate a rate with DOC. The negotiation and approval of such a new rate is subject to the procedures required by NOAA and the DOC Standard Terms and Conditions, Section B.06. The NOAA contact for indirect or facilities and administrative costs is: Raishan Adams,

Grants

Officer, NOAA Grants Management Division, 1325 East West Highway, 9th Floor, Silver Spring, Maryland 20910, raishan.adams@noaa.gov.

NCCOS/CRP will not fund start-up or operational costs for private business ventures and neither fees nor profits will be considered as allowable costs. Ship costs may not

be included in indirect cost calculations unless specified within the indirect cost rate agreement of the institution. NCCOS/CRP will not pay for ship overhead expenses otherwise. If indirect costs are applied, an approved indirect cost agreement or budget revision will be required before an application can be recommended for funding.

G. Other Submission Requirements

Applications submitted in response to this Announcement are strongly encouraged to be submitted through the Grants.gov website. The full funding Announcement for this program is available via the Grants.gov website: <http://www.grants.gov>. You will be able to access, download and submit electronic grant applications for NOAA Programs in this Announcement at <http://www.grants.gov>. NOAA strongly recommends that you do not wait until the application deadline date to begin the application process through Grants.gov.

Applicants must register with Grants.gov before any application materials can be submitted. To use Grants.gov, applicants must be registered in SAM, and periodic renewals are required.

Allow a minimum of five days to complete the SAM registration. (Note: Your organization's Employer Identification Number (EIN) will be needed on the application form). An organization's one-time registration process may take up to three weeks to complete. In addition, it may take two days until the applicant is notified as to whether NOAA received the application, so allow sufficient time to ensure applications are submitted before the closing date. For applicants previously registered in SAM, please note that SAM registration must be periodically renewed.

After electronic submission of the application through Grants.gov, the person submitting the application will receive, within the next 24 to 48 hours, up to three email messages from Grants.gov updating them on the progress of their application. The first email will confirm receipt of the application by the Grants.gov system, and the second will indicate that the application has either been successfully validated by the system before transmission to NOAA or has been rejected because of errors. Only validated applications are sent to NOAA for review. After the application has been validated, this same person will receive a third email, generally within two days, when the application has been downloaded by NOAA.

If use of Grants.gov is not feasible, contact the NCCOS Grants Administrator (see Section VII for contact information) as soon as possible and no later than a week before the due date to assess whether alternative arrangements can be made. Please

refer to Section IV.D. Submission Dates and Times to help ensure your application is received on time.

V. Application Review Information

A. Evaluation Criteria

1. Importance and/or relevance and applicability of proposed project to the program goals: This ascertains whether there is intrinsic value in the proposed work and/or relevance to NOAA, Federal, regional, state, or local activities. Does the research address the priorities stated in Section I.B of this Announcement? Are the expected research products clearly identified, including how they could inform innovative applications by coastal decision makers to other programs and is there a process of engagement outlined? (35 percent)
2. Technical/scientific merit: This assesses whether the approach is technically sound and if the methods are appropriate, whether there are clear project goals and objectives. The proposed work should have focused objectives and a complete and technically sound strategy for project design, methodologies, data management, data analysis, and development of products and outcomes in support of the objectives. Is the process mature, requiring limited scientific advancement or field work? (35 percent)
3. Overall qualifications of applicants: This ascertains whether the applicant possesses the necessary education, experience, training, facilities, and administrative resources to accomplish the project. This includes the capability of the investigator and collaborators to complete the proposed work for 10 percentage points, and the statement of Diversity and Inclusion (as described in Section IV.B.(c)4d). (15 percent)
4. Project costs: The Budget is evaluated to determine if it is realistic and commensurate with the project needs and timeframe. Are costs reasonable? (10 percent)
5. Outreach and education: NOAA assesses whether this project provides a focused and effective education and outreach strategy regarding NOAA's mission to protect the Nation's natural resources. This section does not include engagement with coastal decision makers, which is assessed under criteria 1. (5 percent)

B. Review and Selection Process

Once NOAA has received a full application, an initial administrative review is conducted to determine compliance with requirements and completeness of the application. Ineligible, incomplete, and/or non-responsive applications may be eliminated from further review. NOAA, in its sole discretion, may continue the review process for applications with non-substantive issues that can easily be rectified or cured. All applications that pass this initial review will be evaluated and scored individually by independent peer mail review and/or by independent peer panel review.

Both Federal and non-Federal experts may be used in this process. The peer mail reviewers will be at least three with expertise in the subjects addressed by particular applications. Each mail reviewer will see only certain individual applications within their area of expertise, and score them individually on a scale of one to five, where scores represent respectively: Excellent (5), Very Good (4), Good (3), Fair (2), Poor (1). Both whole and ½ scores will be acceptable. Reviewers will consider the relative weighting of each of the evaluation criteria in providing an overall proposal score.

Subsequently, NOAA will convene a peer panel comprised of several individuals, with each individual having expertise in a separate area, so that the panel, as a whole, covers a range of relevant scientific expertise.

The panel will have access to all mail reviews of proposals and will use the mail reviews in discussion and evaluation of the proposals. The peer panel shall rate the proposals using the evaluation criteria and scoring method provided above (and used by the mail reviewers).

Individual peer panel reviewers will consider the relative weighting of the evaluation criteria in providing their individual score. The individual peer panelists' scores shall be combined, using one or more methods, to obtain a numerical ranking of the proposals. If a full review (mail and panel) is conducted, only the panel scores shall be used to rank each proposal. If any non-Federal reviewer is used, no consensus advice will be given by the independent peer mail review or the review panel.

The NOAA Program Managers will neither vote or score applications as part of the independent peer review panel nor participate in discussion of the merits of the applications other than to ask/answer questions. Those applications receiving an average panel score of "Fair" or "Poor" will not be given further consideration, and

applicants will be notified of non-selection.

For the applications scored by the reviewers as either "Excellent," "Very Good," or "Good," the NCCOS/CRP Program Manager will (a) create a ranking of the applications to be recommended for funding using the average panel scores; (b) recommend the total duration of funding for each application; and (c) recommend the amount of funds available subject to the availability of fiscal year funds. Recommendations for funding are forwarded from the NCCOS/CRP Program Manager to the NCCOS/CRP Director for development of the final recommendation to the Selecting Official, the Director of NCCOS or designee, for the final funding recommendation decision. Recommendations will be made using the rank order generated by the peer-review process unless justification is provided to select a proposal out of rank order. Justification must be based on one or more of the selection factors listed below in Section V.C.

NOAA reserves the right to negotiate the budget with the applicants that have been selected to receive awards, which may include requesting that the applicant remove certain costs, combine budgets into a single application, add/subtract expertise, or change the lead or subaward institution. Additionally, NOAA may request that the applicant modify objectives or work plans and provide supplemental information required by the agency prior to award. NOAA may select some, all, or none of the applications, or part(s) of any particular application, and may request that applicants combine projects. In addition, applications rated by the panel as either "Excellent," "Very Good," or "Good" that are not funded in the current fiscal period, may be considered for funding in another fiscal period without having to repeat the competitive review process.

The Selecting Official will make recommendations to the NOAA Grants Management Division, and the final approval of selected applications and issuance of awards will be by the NOAA Grants Officer. The award decisions of the NOAA Grants Officer are final.

The NOAA Grants Officer will review financial and grants administration aspects of a proposed award, including conducting an assessment of the risk posed by the applicant in accordance with 2 C.F.R. 200.206. In addition to reviewing repositories of government-wide eligibility, qualifications or financial integrity information, the risk assessment conducted by NOAA may consider items such as the financial stability of an applicant, quality of the applicant's management systems, an applicant's history of performance, previous audit reports and audit findings

concerning the applicant and the applicant's ability to effectively implement statutory, regulatory, or other requirements imposed on non-Federal entities. See also "Review of Risk" in Section VI. of this Announcement.

Applicants should be in compliance with the terms of any existing NOAA grants or cooperative agreements and otherwise eligible to receive Federal awards, or make arrangements satisfactory to the NOAA Grants Officer, to be considered for funding under this competition. All reports due should be received and any concerns raised by the agency should be timely addressed in order to receive a new award. Upon review of these factors, if appropriate, specific award conditions that respond to the degree of risk may be applied by the NOAA Grants Officer pursuant to 2 C.F.R. 200.208. In addition, NOAA reserves the right to reject an application in its entirety where information is uncovered that raises a significant risk with respect to the responsibility or suitability of an applicant. The final approval of selected applications and issuance of awards will be by the NOAA Grants Officer.

When a decision has been made (whether an award or declination), verbatim anonymous copies of reviews and summaries of review panel deliberations, if any, will be made available to the applicant. Declined applications will be held in NCCOS/CRP for three years in accordance with current retention policies, and then destroyed.

C. Selection Factors

Proposals may be selected out of rank order based upon one or more of the following factors:

1. Availability of funding.
2. Balance/distribution of funds.
 - a. Geographically.
 - b. By type of institutions.
 - c. By type of partners.
 - d. By research areas.
 - e. By project types.

- f. Inclusion of under-represented and/or under-served communities
- 3. Whether this project duplicates other projects funded or considered for funding by NOAA or other Federal agencies.
- 4. Program priorities and policy factors. Refer to section I.B.
- 5. Applicant's prior award performance.
- 6. Partnerships and/or participation of targeted groups.
- 7. Adequacy of information necessary for NOAA to make a NEPA determination and draft necessary documentation before recommendations for funding are made to the NOAA Grants Officer.

Awards may also be modified for selected projects depending on budget availability or according to the selection factors listed above.

D. Anticipated Announcement and Award Dates

Subject to the availability of funds, review of the applications will begin upon receipt. Applicants may be notified of award or declination by September 2023, and applicants should use a start date of September 1, 2023

VI. Award Administration Information

A. Award Notices

Pre-Award Costs

Per 2 CFR 200.458, NOAA authorizes award recipients to expend pre-award costs up to 90 days before the period of performance start date at the applicant's own risk without approval from NOAA and in accordance with the applicant's internal policies and procedures. Such costs are allowable only to the extent that they would have been allowable if incurred after the date of the Federal award. This does not include direct proposal costs (as defined at 2 CFR 200.460). In no event will NOAA or the Department of Commerce be responsible for direct proposal preparation costs. Pre-award costs will be a portion of, not in addition to, the approved total budget of the award. Pre-award costs expended more than 90 days prior to the period of

performance start date require approval from the Grants Officer. This does not change the period of performance start date.

Grants Officer Signature

Proposals submitted in response to this solicitation are not considered awards until the Grants Officer has signed the grant or cooperative agreement. Only Grants Officers can bind the Government to the expenditure of funds. The Grants Officer's digital signature constitutes an obligation of funds by the federal government and formal approval of the award.

Limitation of Liability

Funding for programs listed in this notice is contingent upon the availability of funds. Applicants are hereby given notice that funds may not have been appropriated yet for the programs listed in this notice. Publication of this announcement does not oblige NOAA to award any specific project or to obligate any available funds.

The notice of award is signed by the NOAA Grants Officer and is the authorizing document. It is provided electronically through NOAA's Grants Online system to the appropriate business office of the recipient organization.

B. Administrative and National Policy Requirements

1. DOC Pre-Award Notification Requirements for Grants and Cooperative Agreements

The DOC Pre-Award Notification Requirements for Grants and Cooperative Agreements contained in the Federal Register notice of December 30, 2014 (79 FR 78390) are applicable to this solicitation and may be accessed online at Pre-Award Notice (<http://www.gpo.gov/fdsys/pkg/FR-2014-12-30/pdf/2014-30297.pdf>).

2. Uniform Administrative Requirements, Cost Principles, and Audit Requirements

Through 2 C.F.R. §1327.101, the DOC adopted Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards at 2 C.F.R. Part 200, which apply to awards in this program. Refer to Uniform Guidance (<http://go.usa.gov/SBYh> and <http://go.usa.gov/SBg4>).

3. Department of Commerce Financial Assistance Standard Terms and Conditions

Successful applicants who accept a NOAA award under this solicitation will be bound by DOC Financial Assistance Standard Terms and Conditions. A current version of this document is available at:

<https://www.commerce.gov/oam/policy/financial-assistance-policy>.

NOAA will also add to any award Agency-Specific Administrative Terms with requirements related to payment processing, reporting, and related matters.

A current version is found online at NOAA Administrative Terms

(<https://www.noaa.gov/sites/default/files/legacy/document/2021/Mar/Administrative%20Standard%20Award%20Conditions%20for%20NOAA%20Financial%20Assistance%20Awards%2002.18.2021.pdf>)

These terms may be updated by the time of award. In addition, award documents provided by the NOAA Grants Management Division in the Grants Online award package may contain Special Award Conditions unique to a project, including conditions that may limit the use of funds for activities that have outstanding environmental compliance requirements and/or stating other compliance requirements for the award as applicable.

4. Limitation of Liability

Funding for programs listed in this notice is contingent upon the availability of appropriations. Applicants are hereby given notice that funds may not have been appropriated yet for the programs listed in this notice. NOAA or DOC are not responsible for direct costs of proposal preparation. Publication of this Announcement does not oblige NOAA to award any specific project or to obligate any available funds.

5. National Environmental Policy Act (NEPA)

The National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. 4321 et seq., as implemented by the Council on Environmental Quality Regulations (40 C.F.R. Parts 1500- 1508), requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects of proposed actions, analyze potential environmental effects of proposed actions and their alternatives, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality to the extent practicable. Therefore,

NOAA must analyze the potential environmental impacts, as required by NEPA, for applicant projects or proposals which are seeking NOAA Federal Funding Opportunities to ensure applicant projects or proposals are in compliance with NEPA and all policies and procedures in NOAA Administrative Order (NAO) 216-6A and the NAO 216- 6A Companion Manual and all applicable Federal, state, and local environmental laws, regulations, and Executive Orders aimed at protecting human health, the environment, natural resources, and cultural resources.

Detailed information on NOAA compliance with NEPA can be found at the following NOAA NEPA website: <http://www.nepa.noaa.gov/>, and in the NAO 216-6A: <https://www.noaa.gov/organization/administration/nao-216-6a> and the associated companion manual: <https://www.noaa.gov/sites/default/files/2021-10/NOAA-NAO-216-6A-Companion-Manual-03012018%20%281%29.pdf>.

Consequently, as part of an applicant's package, and under their description of their program activities, applicants are required to provide detailed information on the activities to be conducted, locations, sites, species and habitat to be affected, possible construction activities, and any environmental concerns that may exist (e.g., the use and disposal of hazardous or toxic chemicals, introduction of non-indigenous species, impacts to endangered and threatened species, aquaculture projects, and impacts to coral reef ecosystems). Applicants to be recommended for funding may also be required to answer relevant questions from the "Environmental Compliance Questionnaire for NOAA Federal Financial Assistance Applicants" (OMB Control No. 0648-0538) or other questionnaires to fulfill compliance with NEPA and all other environmental laws, regulations, and Executive Orders aimed at protecting human health, the environment, natural and cultural resources. The NCCOS/CRP Program Manager will determine which questions are relevant to each specific proposal. Answers must be provided before the application can be submitted for final funding approval.

In addition to providing specific information on any required impact analyses, applicants may also be requested to assist NOAA in drafting an Environmental Assessment or Environmental Impact Statement, if NOAA determines further NEPA compliance is required. Applicants will also be required to cooperate with NOAA in identifying feasible measures to reduce or avoid any identified adverse environmental impacts of their proposal. Failure to do so shall be grounds for not selecting an application. In some cases, if additional information is required after an application is selected, funds can be withheld by the NOAA Grants Officer under

a SAC requiring the recipient to submit additional environmental compliance information sufficient to enable NOAA to make an assessment on any impacts that a project may have on the environment. See also Section IV.B. of this Announcement.

6. Review of Risk

After applications are proposed for funding by the Selecting Official, the Grants Office will perform administrative reviews, including an assessment of risk posed by the applicant under 2 C.F.R. 200.206. These may include assessments of the financial stability of an applicant and the quality of the applicant's management systems, history of performance, and the applicant's ability to effectively implement statutory, regulatory, or other requirements imposed on non-Federal entities. Special conditions that address any risks determined to exist may be applied. Applicants may submit comments to the Federal Awardee Performance and Integrity Information System (FAPIIS) about any information included in the system about their organization for consideration by the awarding agency.

7. Minority Serving Institutions

DOC/NOAA is strongly committed to increasing the participation of Minority Serving Institutions (MSIs), i.e., Historically Black Colleges and Universities, Hispanic-serving institutions, Tribal colleges and universities, Alaskan Native and Native Hawaiian institutions, and institutions that work in underserved communities.

8. Permits

It is the applicant's responsibility to obtain all permits and approvals from Federal, state, and local governments and private landowners where necessary for the proposed work to be conducted. If applicable, documentation of requests or approvals of environmental permits must be received by the NCCOS/CRP Program Manager prior to release of funding. Failure to apply for and obtain Federal, state, and local permits, approvals, or letters of agreement may delay the award of funds if a project is otherwise selected for funding. In some cases, if additional permits and approvals are required after an application is selected, funds may be withheld by the NOAA Grants Officer under a SAC requiring the recipient to submit required permits and approvals.

9. Access to Information

Patentable ideas, trade secrets, privileged or confidential commercial or financial information, disclosure of which may harm the proposer, should be included in proposals only when such information is necessary to convey an understanding of the proposed project. Such information should be clearly marked in the proposal or included as a separate statement accompanying the proposal and should be appropriately labeled with a legend such as, "The following is [proprietary or confidential] information that [name of proposing organization] requests not be released to persons outside the Government, except for purposes of review and evaluation." As an alternative example in the event that an application contains information or data that you do not want disclosed prior to award for purposes other than the evaluation of the application, mark each page containing such information or data with the words "Privileged, Confidential, Commercial, or Financial Information - Limited Use" at the top of the page to assist NOAA in making disclosure determinations. While NOAA will make every effort to prevent unauthorized access to such material, it is not responsible or in any way liable for the release of such material.

DOC regulations implementing the Freedom of Information Act (FOIA), 5 U.S.C. 552, are found at 15 C.F.R. Part 4, which sets forth rules for DOC to make requested materials, information, and records publicly available under FOIA. The contents of funded applications may be subject to requests for release under FOIA. Based on the information provided by the applicant, the confidentiality of the content of funded applications will be maintained to the maximum extent permitted by law.

A proposal that results in an award will be available to the public on request, except for privileged information or material that is personal, proprietary, or otherwise exempt from disclosure under law. Appropriate labeling in the proposal aids identification of what may be specifically exempt. Such information will be withheld from public disclosure to the extent permitted by law, including FOIA. Without assuming any liability for inadvertent disclosure, NOAA will seek to limit disclosure of such information to its employees and to outside reviewers when necessary for merit review of the proposal or as otherwise authorized by law. Portions of proposals resulting in grants that contain descriptions of inventions in which either the Government or the grantee owns a right, title, or interest (including a nonexclusive license) will not normally be made available to the public until a reasonable time has been allowed for filing patent applications. NOAA will notify

the grantee of receipt of requests for copies of funded proposals so the grantee may advise NOAA of such inventions described, or other confidential, commercial or proprietary information contained in the proposal.

In addition, the applicant acknowledges and understands that information and data contained in applications for financial assistance, as well as information and data contained in financial, performance and other reports submitted by applicants, may be used by the Department of Commerce in conducting reviews and evaluations of its financial assistance programs. For this purpose, applicant information and data may be accessed, reviewed and evaluated by Department of Commerce employees, other Federal employees, and also by Federal agents and contractors, and/or by non-Federal personnel, all of whom enter into appropriate conflict of interest and confidentiality agreements covering the use of such information. As may be provided in the terms and conditions of a specific financial assistance award, applicants are expected to support program reviews and evaluations by submitting required financial and performance information and data in an accurate and timely manner, and by cooperating with the Department of Commerce and external program evaluators. In accordance with §200.303(e), applicants are reminded that they must take reasonable measures to safeguard protected personally identifiable information and other confidential or sensitive personal or business information created or obtained in connection with a Department of Commerce financial assistance award.

10. Scientific Integrity

NCCOS/CRP adheres to the principles of scientific integrity. This policy can be found at: <https://www.noaa.gov/organization/administration/nao-202-735d-2-scientific-integrity>.

11. Research Terms and Conditions

For awards designated on the CD-450 as Research, the Commerce Terms, and the Federal-wide Research Terms and Conditions (Research Terms) as implemented by the Department of Commerce, currently, at <https://www.nsf.gov/awards/managing/rtrc.jsp>, both apply to the award. The Commerce Terms and the Research Terms are generally intended to harmonize with each other; however, where the Commerce Terms and the Research Terms differ in a Research award, the Research Terms prevail, unless otherwise indicated in a specific award condition.

12. Human Subjects Research

For research projects involving Human Subjects, an Institutional Review Board (IRB) approval or an exemption determination will be required in accordance with DOC Financial Assistance Standard Terms and Conditions “Research Involving Human Subjects” found at <https://www.commerce.gov/oam/policy/financial-assistance-policy>

13. NOAA Sexual Assault and Sexual Harassments Prevention and Response Policy

NOAA requires organizations receiving federal assistance to report Findings of sexual harassment, or any other kind of harassment, regarding a Principal Investigator (PI), co-PI, or any other key personnel in the award. NOAA expects all financial assistance recipients to establish and maintain clear and unambiguous standards of behavior to ensure harassment free workplaces wherever NOAA grant or cooperative agreement work is conducted, including notification pathways for all personnel, including students, on the awards. This expectation includes activities at all on- and offsite facilities and during conferences and workshops. All such settings should have accessible and evident means for reporting violations and recipients should exercise due diligence with timely investigations of allegations and corrective actions.

For more information, please visit: <https://www.noaa.gov/organization/acquisition-grants/noaa-workplace-harassment-training-for-contractors-and-financial>.

C. Reporting

In accordance with 2 CFR 200.328-9 and the terms and conditions of the award, financial reports are to be submitted semiannually and performance (technical) reports are to be submitted semiannually and a comprehensive - a final interim report is required.

All performance (i.e., technical progress) reports shall be submitted electronically through NOAA’s Grants Online system unless the recipient does not have electronic access.

In that case, performance (technical) reports are to be submitted to the NCCOS/CRP Program Manager. All financial reports shall be submitted in the same manner. All ship time use must be reported by the PI or Chief Scientist on each cruise within the performance reports.

The Federal Funding Accountability and Transparency Act, 31 U.S.C. 6101 note, includes a requirement for awardees of applicable Federal grants to report information about first-tier subawards and executive compensation under Federal assistance awards. All awardees of applicable grants and cooperative agreements are required to report to the Federal Sub-award Reporting System (FSRS) available at <https://www.fsrs.gov/> on all sub-awards over \$25,000. Refer to 2 C.F.R. Part 170.

1. Data Reporting Requirement

- a. Environmental data and information collected or created under NOAA grants or cooperative agreements must be made discoverable by and accessible to the general public, in a timely fashion (typically within two years), free of charge or at no more than the cost of reproduction, unless an exemption is granted by the NOAA Program. Data should be available in at least one machine-readable format, preferably a widely-used or open-standard format, and should also be accompanied by machine-readable documentation (metadata), preferably based on widely used or international standards.
- b. Proposals submitted in response to this Announcement must include a Data Management Plan of up to two pages describing how these requirements will be satisfied. The Data Management Plan should be aligned with the Data Management Guidance provided by NOAA in this Announcement (see Data Management Guidance to Proposal Writers below). The contents of the Data Management Plan (or absence thereof), and past performance regarding such plans, will be considered as part of proposal review. A typical plan should include descriptions of the types of environmental data and information expected to be created during the course of the project; the tentative date by which data will be shared; the standards to be used for data/metadata format and content; methods for providing data access; approximate total volume of data to be collected; and prior experience in making such data accessible. The costs of data preparation, accessibility, and/or archiving may be included in the proposal budget unless otherwise stated in the Guidance. Accepted submission of data to the NOAA National Centers for Environmental Information (NCEI) is one way to satisfy data sharing requirements; however, NCEI is not obligated to accept all submissions and may charge a fee, particularly for large or unusual datasets.
- c. NOAA may, at its own discretion, make publicly visible the Data Management Plan from funded proposals, or use information from the Data Management Plan

to produce a formal metadata record and include that metadata in a Catalog to indicate the pending availability of new data.

- d. Proposal submitters are hereby advised that the final pre-publication manuscripts of scholarly articles produced entirely or primarily with NOAA funding will be required to be submitted to the NOAA Institutional Repository after acceptance, and no later than upon publication. Such manuscripts shall be made publicly available by NOAA one year after publication by the journal.

2. Data Management Guidance to Proposal Writers

- a. For questions regarding data management and implementing this guidance: refer to Section VII. for NCCOS Grants Administrator contact information.
- b. Data Accessibility: NCCOS/CRP requires that public access to grant-produced data be enabled as follows: Data Management Plans (see Section IV.B.2.) submitted with proposals should reflect one or more of the option(s).

Option A: For the majority of oceanographic and ecological data, except those listed below, funding recipients are expected to submit data to the NOAA/NCEI for long-term preservation, which will provide public access, archiving, discovery metadata meeting NOAA standards and formats, and a Digital Object Identifier (DOI). NCCOS/CRP has held a preliminary consultation with NCEI regarding these pending data.

Option B: For any other data not appropriate for submission to NOAA/NCEI, funding recipients are expected to submit data to an appropriate data facility (i.e., National Institutes of Health's GenBank for genomics data) that preserves data, properly manages archived data to assure their quality, mints DOIs, and makes archived data and related information available to users in a timely and efficient manner. Funding recipients should submit discovery metadata meeting NOAA standards and formats documenting these non-NOAA data archives to the NCCOS/CRP Program Manager (see Section VII.).

Option C: For limited-release data that are limited by law, regulation, policy, security requirements, commercial or international agreements, or valid technical considerations, funding recipients may request permission not to make data publicly accessible from the NCCOS/CRP Program Manager.

- c. Technical recommendations: NCCOS/CRP is not offering specific technical guidance.

Proposals are to describe their proposed approach. Use of open-standard formats and methods is encouraged. Definitions of data management terms are included here:

Environmental data are recorded and derived observations and measurements of the physical, chemical, biological, geological, and geophysical properties and conditions of the oceans, atmosphere, space environment, sun, and solid earth, as well as, correlative data such as socio-economic data, related documentation, and metadata. Digital audio or video recordings of environmental phenomena (such as animal sounds or undersea video) are included in this definition. Numerical model outputs are included in this definition, particularly if they are used to support the conclusion of a peer-reviewed publication. Data collected in a laboratory or other controlled environment, such as measurements of animals and chemical processes, are included in this definition.

Sharing data means making data publicly visible and accessible in a timely (see below) manner at no cost (or no more than the cost of reproduction), in a format which is machine-readable and based on open standards, along with metadata necessary to find and properly use the data. Data are to be made available in a form that would permit further analysis or reuse: data must be encoded in a machine-readable format, preferably using existing open- standard formats; data must be sufficiently documented, preferably using open metadata standards, to enable users to independently read and understand the data. Data should undergo quality control (QC) and a description of the QC process and results should be referenced in the metadata.

Machine-readable means the data are stored on a computer in a digital format whose structure is well described and which can be read without the aid of a human. An open-standard format is one which does not require proprietary software to be read. Metadata is documentation that is machine-readable and structured according to an open-standard format and which describes the data so that users can search for, access, read, understand, and use the data. International Organization for Standardization (ISO) EXtensible Markup Language (XML) is an acceptable metadata format.

Timely means no later than publication of a peer-reviewed article based on the data,

or two years after the data are collected and verified, or two years after the original end date of the grant (not including any extensions or follow-on funding), whichever is soonest, unless a delay has been authorized by the NCCOS/CRP.

NCCOS/CRP resources for data archiving at NOAA NCEI have already been identified; proposals should not include such costs. Proposals are permitted to include the costs of additional project-level data management, including: coordinating, organizing, documenting, formatting, or otherwise preparing datasets for submission to NOAA or non-NOAA data facilities; establishing and maintaining data access tools and services and related metadata; managing non-digital data that are not required to be made publicly accessible, including laboratory notebooks, preliminary analyses, drafts of scientific papers, plans for future research, peer review reports, communications with colleagues, or physical objects, such as laboratory specimens.

VII. Agency Contacts

Technical Information: Trevor Meckley, ESLR Program Manager, NCCOS/CRP,
(240) 622-5830, Trevor.Meckley@noaa.gov

Grants Administration Information: Laura Golden, NCCOS Business Support Branch,
laurie.golden@noaa.gov

VIII. Other Information

A. Checklist for Required and Requested Documents (10):

1. SF-424
2. Summary Title Page
3. Abstract
4. Project Description
5. Biographical Sketch (for each PI and co-PI)
6. Budget Narrative (One for the lead institution and each subaward/subcontract).
7. CD-511
8. SF-424B
9. SF-424A (One for the lead institution and each subaward/subcontract)
10. Alphabetized Collaborator List (ONE Excel spreadsheet for all)

B. Additional/Optional Documentation (if applicable)

1. Indirect Cost Rate Agreement
2. Signed Approval from subaward/subcontractor institutes
3. Disclosure of Lobbying Activities Form (SF-LLL)
4. Optional References