

ANNOUNCEMENT OF FEDERAL FUNDING OPPORTUNITY

EXECUTIVE SUMMARY

Federal Agency Name(s): Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce

Funding Opportunity Title: Climate Program Office FY 2014

Announcement Type: Initial

Funding Opportunity Number: NOAA-OAR-CPO-2014-2003692

Catalog of Federal Domestic Assistance (CFDA) Number: 11.431, Climate and Atmospheric Research

Dates: Full applications for all Competitions must be received by 5:00 p.m. Eastern Time, November 14, 2013.

1. Letters of Intent

Letters of Intent for all Competitions should be received by the Competition Manager by 5 p.m. Eastern Time, September 10, 2013. Applicants who have not received a response to their Letter of Intent within two weeks should contact the Competition Manager.

2. Full Applications

Full applications for all Competitions must be received by 5:00 p.m. Eastern Time, November 14, 2013. Applications received after this time will not be considered for funding. For applications submitted through grants.gov, a date and time receipt indication is included and will be the basis of determining timeliness. Hard copy submissions will be date and time stamped when they are received in the Climate Program Office. Faxed or emailed copies of applications will not be accepted.

Funding Opportunity Description: Climate variability and change present society with significant economic, health, safety, and national security challenges. NOAA advances scientific and technical programs to help society cope with, and adapt to, today's variations in climate and to prepare for tomorrow's. Toward this end, the agency conducts and supports climate research,

essential oceanic and atmospheric observations, modeling, information management, assessments, interdisciplinary decision support research, outreach, education, and stakeholder partnership development. These investments are key to NOAA's mission of "Science, Service, and Stewardship" and are guided by the agency's vision to create and sustain enhanced resilience in ecosystems, communities, and economies, as described in NOAA's Next Generation Strategic Plan (NGSP) .

The NGSP outlines NOAA's long-term climate goal, with the following objectives: 1) Improved scientific understanding of the changing climate system and its impacts; 2) Assessments of current and future states of the climate system that identify potential impacts and inform science, service, and stewardship decisions; 3) Mitigation and adaptation choices supported by sustained, reliable, and timely climate services; and 4) A climate-literate public that understands its vulnerabilities to a changing climate and makes informed decisions.

Achieving the first of the NGSP climate objectives, an improved scientific understanding of the changing climate system and its impacts, requires a number of core capabilities be supported. These core capabilities can be broadly categorized to include:

- Understanding and modeling
- Observing systems, data stewardship, and climate monitoring
- Predictions and projections
- Integrated service development and decision support

These core capabilities and research efforts now allow progress to be made toward the provision of sustained, reliable, and timely climate services, focused initially on the following societal challenges identified in the NGSP:

- Climate impacts on water resources
- Vulnerability of coasts and their resilience to climate impacts
- Sustainability of marine ecosystems
- Changes in extremes of weather and climate

- Information for mitigating climate change

Each of the Competitions announced in this Federal Funding Opportunity addresses one or more of these core capabilities or societal challenges. It is expected that applications submitted in response to this Opportunity will identify their relevance to NOAA's climate science and services by indicating which core capabilities and/or societal challenges will be addressed by the proposed work. In this regard, application abstracts must include a paragraph describing the work's relevance to the NGSP's climate goal and especially the work's relevance to the Competition being targeted.

We estimate that \$11 million will be available through this Announcement in FY 2014 for approximately 100 new awards pending budget appropriations. It is anticipated that most awards will be at a funding level between \$50,000 and \$200,000 per year, with some exceptions for larger awards. Investigators are highly encouraged to visit the CPO website <http://cpo.noaa.gov/GrantsandProjects.aspx> for information prior to submitting applications.

FULL ANNOUNCEMENT TEXT

I. Funding Opportunity Description

A. Program Objective

Climate variability and change present society with significant economic, health, safety, and national security challenges. NOAA advances scientific and technical programs to help society cope with, and adapt to, today's variations in climate and to prepare for tomorrow's. Toward this end, the agency conducts and supports climate research, essential oceanic and atmospheric observations, modeling, information management, assessments, interdisciplinary decision support research, outreach, education, and stakeholder partnership development. These investments are key to NOAA's mission of "Science, Service, and Stewardship" and are guided by the agency's vision to create and sustain enhanced resilience in ecosystems, communities, and economies, as described in NOAA's Next Generation Strategic Plan (NGSP) .

Fostering climate adaptation and mitigation, and, specifically, the development of an informed society anticipating and responding to climate and its impacts – is one of the primary pathways through which NOAA plans to advance its mission. The NGSP outlines NOAA's long-term climate goal, with the following objectives: 1) Improved scientific understanding of the changing climate system and its impacts; 2) Assessments of current and future states of the climate system that identify potential impacts and inform science, service, and stewardship decisions; 3) Mitigation and adaptation choices supported by sustained, reliable, and timely climate services; and 4) A climate-literate public that understands its vulnerabilities to a changing climate and makes informed decisions. NOAA works in partnership with all levels of governing structures (e.g., federal, state, tribal, regional, local), academic, private, and international research entities, and it places a substantial emphasis on productive partnerships and interactions with decision makers and other stakeholders.

Within this context, NOAA's Climate Program Office (CPO) manages competitive research programs through which NOAA funds high-priority climate science, assessments, decision support research, outreach, education, and capacity-building activities designed to advance our understanding of Earth's climate system and to foster the application of this knowledge in risk management and adaptation efforts. The CPO supports research that is conducted across the United States and internationally. The CPO also provides strategic guidance for the agency's climate science and services programs and supports NOAA's contributions to the U.S. Global Change Research Program (USGCRP) and its National Climate Assessment and similar international endeavors.

In seeking to advance the NGSP climate objective of an improved scientific understanding of the changing climate system and its impacts, the CPO supports research that advances core capabilities in (a) understanding and modeling, (b) observing systems, data stewardship, and climate monitoring, (c) predictions and projections, and (d) integrated service development and decision support.

These core capabilities are, in turn, intended to advance NOAA's ability to provide sustained, reliable, and timely climate services dealing initially, according to the NGSP, with the following broad, societal challenge areas: (a) climate impacts on water resources, (b) vulnerability of coasts and their resilience to climate impacts, (c) sustainability of marine ecosystems, (d) changes in extremes of weather and climate, and (e) information for mitigating climate change. The CPO, therefore, supports research that addresses these societal challenges.

<http://www.ppi.noaa.gov/ngsp/>

2 <http://www.ppi.noaa.gov/ngsp/>

B. Program Priorities

CPO supports competitive research through four major Programs: Climate Observations and Monitoring (COM); Earth System Science (ESS); Modeling, Analysis, Predictions, and Projections (MAPP); and Climate and Societal Interactions (CSI). Through this Announcement, CPO's Programs are seeking applications for nine individual competitions in FY 2014. Investigators are highly encouraged to learn more about CPO and its Programs, as well as specific Program priorities for FY 2014, prior to submitting applications. This information, along with the names and contact information of relevant Competition Managers, is provided in Program information sheets that can be found at the following website: <http://cpo.noaa.gov/GrantsandProjects.aspx>

The nine competitions covered by this Announcement are as follows:

- COM - Data Sets and Indicators
- COM - Paleoclimate Proxy/Multi-proxy Reconstructions and Analyses
- ESS - Climate Variability and Predictability (CVP): Improved Understanding of Tropical Pacific Processes, Biases, and Climatology
- ESS - Atmospheric Chemistry, Carbon Cycle, and Climate (AC4):
Observational Constraints on Sources and Sinks of Aerosols and
Greenhouse Gases
- MAPP – Research to Advance Understanding, Monitoring, and Prediction of Drought
- MAPP – Climate Test Bed: Research to Advance NOAA's Operational Systems for Climate Prediction
- CSI- Sectoral Applications Research Program (SARP): Climate Extreme Event Preparedness, Planning, and Adaptation
- CSI- SARP: Coping with Drought Initiative in support of the National Integrated Drought Information System (NIDIS).
- CSI- Coastal and Ocean Climate Application (COCA): Ecosystem Services for a Resilient Coast

1. Climate Observations and Monitoring

The Climate Observations and Monitoring (COM) Program supports projects that develop data sets and information needed to understand the climate system and then make these products available to user communities in need of them. The program documents variations in climate on time scales ranging from days to a century, and longer. The program also supports data and information development for national and international climate assessment products.

In FY 2014, COM plans to conduct two separate competitions:

1. Data Sets and Indicators

In this competition, it is anticipated that approximately \$1,500K will be available for new starts that will address one of the following two areas:

a) Data Sets for Weather/Climate Extremes: Proposals are invited for the development and enhancement of long-term, continuous, and high-resolution data sets that address weather/climate extremes in the physical climate system, and include an analysis component addressing the physical processes reflected in these data.

b) Ocean Climate Indicators: Proposals are solicited to produce meaningful, authoritative climate-relevant and observation-based diagnostic indicators describing the status, trends, extremes, and variability of ocean physical properties over time scales of weeks to decades.

2. Paleoclimate Proxy/Multi-proxy Reconstructions and Analyses

In this competition, COM anticipates that approximately \$500K will be available for a single selected proposal from a team focused on improving the use of paleo-proxy observation information. Proposals are invited to develop synthesized (e.g. gridded) paleo-proxy-based data products for the purpose of a) characterizing historical extreme events (e.g.

drought, floods) to inform adaptation planning and assessments of risk; and/or b) describing hemispheric changes in extreme events and their linkages to global and/or large-scale patterns of natural variability (e.g. ENSO, AMO).

Potential Future Announcement

COM anticipates a possible solicitation for long-term observations on air/ice/ocean/ecosystem/benthos interactions in the rapidly changing Arctic through a separate announcement of a Federal Funding Opportunity.

2. Earth System Science

The Earth System Science (ESS) Program aims to provide a process-level understanding of the climate system through observation, modeling, research, analysis, and field studies to support the development of improved climate models and predictions. In FY2014, the ESS Program is soliciting research proposals for the following two competitions:

1. Climate Variability and Predictability (CVP): Improved Understanding of Tropical Pacific Processes, Biases, and Climatology

Proposals are solicited for focused data analysis and/or multi-model experimentation that seek to better understand tropical Pacific processes, biases, and climatology in any of the following areas: a) intercomparison of model parameterizations (e.g., atmospheric convection and clouds, oceanic vertical mixing) as pertains to large-scale biases in, for example, SST or fluxes of momentum, heat, and/or water; b) reduced-model experiments (e.g., atmosphere-only, ocean-only, flux-adjusted, aquaplanet, regional, or regionally-coupled models) to isolate the sources and amplifiers of biases; c) intermediate (e.g., Cane-Zebiak-type) and conceptual model studies of bias development; d) short-term forecast experiments, from weeks to a year, to isolate the time scales of bias development and the responsible processes; and e) development of metrics for atmospheric, oceanic, and/or coupled GCMs that help to elucidate the main processes contributing to biases.

2. Atmospheric Chemistry, Carbon Cycle, and Climate (AC4): Observational Constraints on Sources and Sinks of Aerosols and Greenhouse Gases

Proposals are solicited that aim to put observational constraints on sources and sinks of aerosols and greenhouse gases via measurements, analysis, and modeling. Specifically, proposals that aim to put observational constraints on the following quantities are encouraged: a) Emissions from oil and gas extraction, b) Emissions of aerosols, greenhouse gases, and their precursors in the Southeast region of US and c) Deposition processes controlling atmospheric concentrations of aerosols and greenhouse gases.

Potential Future Announcement

AC4 anticipates a possible solicitation for new Climate Process Team (CPT) awards to improve Earth System Models through a separate announcement of Federal Funding Opportunity.

3. Modeling, Analysis, Predictions, and Projections

The mission of the Modeling, Analysis, Predictions, and Projections (MAPP) Program is to enhance the Nation's capability to predict variability and changes in Earth's climate system. The Program focuses on the coupling, integration, and application of Earth System Models and analyses across NOAA, among partner agencies, and with the external research community. Primary objectives include 1) improving Earth System Models, 2) supporting an Earth System Integrated Analysis capability, 3) improving methodologies for global and regional-scale analysis, predictions and projections, and 4) developing integrated assessment and prediction capabilities relevant to decision makers based on climate analyses, predictions and projections.

In FY 2014, MAPP is soliciting research proposals for the following two competitions:

1. Research to Advance Understanding, Monitoring, and Prediction of Drought

Proposals are sought that address one or both of the following focus areas: 1) understanding predictability of past droughts over North America, and 2) advancing the development of a national drought monitoring and prediction system.

2. Climate Test Bed-- Research to Advance NOAA's Operational Systems for Climate Prediction

Proposals are sought that will examine ways to improve operational systems for climate prediction by focusing on one or both of the following research foci: 1) the performance of operational prediction systems when model components and/or parameterization schemes from models developed in the broader community are included experimentally in operational models, and/or 2) the performance of experimental prediction methodologies or systems developed in the broader community for operational purposes.

An information sheet containing further details and Points of Contact can be found at <http://www.cpo.noaa.gov/opportunities/>.

4. Climate and Societal Interactions

The Climate and Societal Interactions (CSI) Program fosters the development of interdisciplinary science and services, including assessments, for application in climate-sensitive sectors and regions. The goals of the CSI Program are: 1) identification and articulation of user-community requirements in multiple sectors; 2) research and development of innovative and broadly applicable tools, methodologies, and knowledge to support decision-making, especially for risk characterization, both through a broad network of regionally scoped, long-term efforts and stakeholder-specific efforts; and 3) promotion of the transfer of knowledge, tools, and products across efforts to improve the delivery of climate information (within NOAA, across the federal government, nationally, and internationally).

In FY 2014, the following CSI competitions will be held:

1. SARP-- Climate Extreme Event Preparedness, Planning, and Adaptation

In FY14, SARP solicits proposals focused on strategies for building sector-based community resilience to the impact of extreme events on water resources and water-resource dependent activities (e.g., land use, watershed and water utility planning, and health).

2. SARP--Coping with Drought Initiative in support of the National Integrated Drought Information System (NIDIS).

In FY14, the Coping with Drought Initiative will continue to solicit proposals that focus on existing and planned NIDIS drought early warning pilot areas, targeting specific communities within these areas and concentrating research on risk assessment, management, and development of decision-support resources.

3. COCA—Ecosystem Services for a Resilient Coast

In FY14, COCA will solicit proposals focused on the development and application of methodologies for integrating ecosystem services into coastal adaptation efforts (e.g. the integration of green infrastructure for coastal protection) to support sustainable coastal communities and ecosystems in a changing climate.

An information sheet containing further details and Points of Contact can be found at <http://www.cpo.noaa.gov/opportunities>.

Potential Future Announcements

- o The Regional Integrated Sciences and Assessments (RISA) program under CSI anticipates releasing a solicitation for new awards through a separate announcement.
- o CSI anticipates releasing a solicitation for new awards to address climate-related impacts, vulnerability, and adaptation activities outside of the U.S., in partnership with another U.S. government agency.
- o CSI anticipates releasing a solicitation for new awards to improve understanding, projection, and management of the impacts of climate variability and change on fish stocks, prey availability, and habitat, with a focus on Northeast groundfish.

For updates, please consult the Climate Program Office website at <http://www.cpo.noaa.gov/>.

C. Program Authority

49 U.S.C. 47720(b), 15 U.S.C. 2904, 15 U.S.C. 2931-2934

II. Award Information

A. Funding Availability

In FY 2014, approximately \$11 million will be available for approximately 100 new awards pending budget appropriations (see section I.B above). It is anticipated that most awards will be at a funding level between \$50,000 and \$200,000 per year. Federal funding for FY 2015 may be used to fund some awards submitted under this Competition. Current or previous grantees are eligible to apply for a new award that builds on, but does not replicate, activities covered in existing or previous awards. Current grantees should not apply for supplementary funding through this announcement.

1. Climate Observations and Monitoring

It is anticipated that \$2 million will be available in FY 2014 for new projects. Projects should be primarily in the \$75,000-\$200,000/year range, with the exception of the project in the Paleoclimate competition, which should be no higher than \$500,000

2. Earth System Science

It is anticipated that \$4 million will be available in FY 2014 for new projects. Projects should be primarily in the \$75,000-\$200,000/year range.

3. Modeling, Analysis, Predictions, and Projections

It is anticipated that \$3 million will be available in FY 2014 for new projects. Projects should be primarily in the \$75,000-\$200,000/year range.

4. Climate and Societal Interactions

It is anticipated that \$2 million will be available in FY 2014 for new projects.. Projects should be primarily in the \$50,000 - \$150,000/year range..

For more detail on funding availability, please see the information sheets available for the individual competitions at <http://www.cpo.noaa.gov/opportunities>.

B. Project/Award Period

1. Climate Observations and Monitoring

Projects under COM are expected to last 1-3 years..

2. Earth System Science

Projects under ESS are expected to last 1-3 years.

3. Modeling, Analysis, Predictions, and Projections

Projects under MAPP are expected to last 1-3 years.

4. Climate and Societal Interactions

Projects under CSI are expected to last up to 2 years.

C. Type of Funding Instrument

The funding instrument for awards will be a grant. If, however, it is anticipated that NOAA will be substantially involved in the implementation of the project, the grant may be administered as a cooperative agreement. Examples of substantial involvement may include, but are not limited to, applications for collaboration between NOAA scientists and a recipient scientist or contemplation by NOAA of detailing Federal personnel to work on proposed projects. NOAA will make decisions regarding the use of a cooperative agreement on a case-by-case basis. Funding for contractual arrangements for services and products for delivery to NOAA is not available under this announcement.

If the grantee is at an institution that has a NOAA Cooperative Institute (CI), the potential grantee is encouraged to submit a proposal that references the CI by attaching a cover letter to the proposal stating his/her desire to have the proposal associated with the CI. This letter should specify the name of the cooperative institute, the CI cooperative agreement number, and the NOAA-approved research theme and task that applies to the proposal. The proposal will use the Facilities and Administrative (F&A) rate associated with main CI agreement. If the proposal 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.

III. Eligibility Information

A. Eligible Applicants

Eligible applicants are institutions of higher education, other nonprofits, commercial organizations, international organizations, and state, local and Indian tribal governments. Federal agencies interested in receiving financial support for projects should contact the appropriate competition manager.

B. Cost Sharing or Matching Requirement

None

C. Other Criteria that Affect Eligibility

None

IV. Application and Submission Information

A. Address to Request Application Package

Application packages are available at Grants.gov (<http://www.grants.gov>) "Apply for Grants". For applicants without Internet access, please contact the CPO Grants Manager Diane Brown by mail at NOAA Climate Program Office (R/CP1), SSMC3, Room 12734, 1315 East-West Highway, Silver Spring, MD 20910 to obtain an Application Package. Please allow two weeks after receipt for a response.

B. Content and Form of Application

1. Letter of Intent (LOI)

The purpose of the LOI process is to provide information to potential applicants on the relevance of their proposed project to the Climate Program Office in advance of preparing a full application. Full applications will be encouraged only for LOIs deemed relevant. While we strongly encourage interested applicants to submit an LOI, applicants are not required to do so and are allowed to submit a full application even if they have not submitted an LOI.

LOIs should be submitted by e-mail to the identified NOAA Competition Manager by the deadline specified in section IV.C below (subject line should identify lead PI's name and Competition name). The LOI should provide a concise description of the proposed work and a statement regarding its relevance to the targeted Competition. The LOI should be no more than two pages in length and should include the components listed below. If these components are not included or the LOI is submitted late, the LOI may not be considered.

- (1) Identification of the Competition that is being targeted in the LOI.
- (2) A tentative project title.
- (3) Name(s) and institution(s) of the Lead Principal Investigator(s) and other Principal Investigator (s).
- (4) Statement of the problem.
- (5) Brief summary of work to be completed, methodology to be used, data sets needed or to be collected, and approximate cost of the project.
- (6) Relevance to the Competition that is being targeted.

A response to the LOI from the Climate Program Office (e-mail or letter) will be sent to the investigator within two weeks after the LOI's due date encouraging or discouraging a full application on the basis of its relevance to the targeted Competition. The final decision to submit a full application will be made by the investigator.

2. Full Application

Failure to comply with these provisions will result in applications being returned without review.

Full applications are limited to 40 pages using 12-point font type with one-inch margins on standard 8.5 by 11 inch paper. For full applications with 3 or more Principal Investigators, the page limit is increased to 45. The page limit includes the title page, abstract, results from prior research, statement of work, budget justification, budget table, vitae, current and pending support, associated figures, references, and appendices. For applications to the MAPP Competitions, the form to request the use of NOAA's high-performance computing platforms is considered part of the full proposal, but it will not be included in the page count. The full proposal should be put into one electronic file. All the Federal Forms (SF424, SF424A, SF424B, CD511), the NEPA Statement, and other mandated forms should be inserted in a separate file when submitted and are not included in the page count.

The following forms and elements are required in each application.

(1) Title page: The title page shall identify the Principal Investigator (PI) and the institutional representative and should clearly indicate which Competition is being addressed by name and Competition number. If more than one investigator is listed on the title page, please identify the lead investigator. The lead PI and institutional representative should be identified by: full name, title, organization, telephone number, e-mail, and address. For paper submissions, the lead PI and the institutional representative must sign the title page. The total amount of Federal funds being requested should be listed for each budget period. If there are several institutions submitting separate applications associated with the same project, the names of all component institutions along with their lead PI name, e-mail, and amount requested per year must also appear on the title page of all applications that anticipate being funded under the same project.

(2) Abstract: A one-page abstract must be included and should contain an introduction to the problem, rationale, and a brief summary of the work to be completed. Abstracts must identify the name of the Competition that is being targeted and must also include a paragraph describing the work's relevance to the Competition that is being targeted as well as NOAA's long-term climate goal as described in NOAA's Next-Generation Strategic Plan (NGSP; see section I.A). For multiple applications associated with the same project, the abstract must be

identical in all applications. Failure to include this paragraph can result in the application being denied without additional review.

(3) Results from prior research: The results of each prior research project led by the Principal Investigator(s) during the last 3 years relevant to the proposed effort should be summarized in brief paragraphs. Because NOAA believes it important that data sets developed with its support should be shared with the scientific community, PIs should also indicate how and when they have made their data accessible and useable by the community in the past. This section should not exceed two pages. For multiple applications associated with the same project, this section must be identical in all applications.

(4) Statement of work: The proposed project must be completely described, including identification of the problem, scientific objectives, proposed methodology, and relevance to the Competition to which you are submitting the proposal and to NOAA's long-term climate goal. Benefits of the proposed project to the general public and the scientific community should be discussed. The statement of work, excluding references, figures, and other visual materials, must not exceed 15 pages of text. Applications from 3 or more investigators may include a statement of work containing up to 20 pages of overall project description. For multiple applications associated with the same project, all applications must have an identical statement of work, including a clear statement of the roles and responsibilities of each applicant.

(5) Data/Information Sharing Plan: Environmental data and information collected and/or created under NOAA grants/cooperative agreements must be made visible, accessible, and independently understandable to general users, free of charge or at minimal cost, in a timely manner (typically no later than two years after the data are collected or created), except where limited by law, regulation, policy or security requirements. To satisfy this requirement, a Data/Information Sharing Plan of no more than two pages is required. A typical plan should include descriptions of the types of environmental data and information 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; policies addressing data stewardship and preservation; procedures for providing access, sharing, and security; and prior experience in publishing such data. The Data/Information Sharing Plan (and any subsequent revisions or updates) must be made publicly available at time of award and, thereafter, will be posted with the published data. Failing to share environmental data and information in accordance with the submitted Data/Information Sharing Plan may lead to disallowed costs and be considered by NOAA when making future award decisions.

(6) Budget Table and Justification:

Budget Table: An itemized budget for all years and a total itemized budget must be included as a separate spreadsheet that breaks down the budget per object class category. Travel must be itemized to include destination, airfare, per diem, lodging, and ground travel.

Budget Justification: A brief description of the expenses listed on the budget table and how they address the proposed work. Item justifications must include salaries, equipment, publications, supplies, tuition, travel, etc. Investigators who will not be requesting funds for salaries must also be listed, indicating their estimated time of commitment. Purchases of equipment greater than \$5000 must include a purchase versus lease justification. Note that the budget table and justification are considered part of the required 40-page limit (45-pages for applications with 3 or more PIs).

For multiple applications associated with the same project, the Lead Principal Investigator should include a spreadsheet that displays the total budget for all partners. All partners, including the Lead Principal Investigator, should include a separate budget for their portion of the project.

(7) Federal Budget Forms: Budget numbers corresponding with the descriptions contained in the statement of work and budget table must be included. In addition to including the total budget on the SF424, the application must include the total budget and budgets for years 1, 2, and 3 in separate columns in Section B on page 1 on the SF424A. (Note that this revised 424A Section B format is a NOAA requirement that is not reflected in the Instructions for the SF 424A). Note that these forms are not part of the required page limit.

For multiple applications associated with the same project, each application requesting funding from NOAA needs to complete the federal budget forms for their specific institution.

(8) Indirect Costs: A copy of the institution's current Indirect Cost Rate Agreement (IDCRA) must be included. The IDCRA does not, however, count as part of the required page limit. To obtain an indirect cost rate if your institution does not already have one, a grantee must submit an indirect cost proposal to its cognizant agency and negotiate an indirect cost agreement.

(9) Vitae: Abbreviated curriculum vitae are requested with each application. Reference lists should be limited to all publications in the last three years with up to five other relevant papers. For multiple applications associated with the same project, each application should include identical vitae for all applications.

(10) Current and pending support: For each Principal Investigator and Co-Principal Investigator(s), submit a list of all current and pending Federal support that includes project title, supporting agency with grant number, investigator months per year, dollar value, and duration. Requested values should be listed for pending support. For multiple applications associated with the same project, each application should include identical current and pending support information for all applications.

(11) DUNS Number: All applications must have a DUNS (Dun and Bradstreet Data Universal Numbering System) number when applying for federal grants. No application is deemed complete without the DUNS number, and only the Office of Management and Budget (OMB) may grant exceptions.

(12) National Environmental Policy Act (NEPA): NOAA must analyze the potential environmental impacts, as required by the National Environmental Policy Act (NEPA), of each applicant's project that is seeking NOAA federal funding opportunities. Detailed information on NOAA's compliance with NEPA can be found at the following NOAA NEPA website: <http://www.nepa.noaa.gov/>, including the NOAA Administrative Order 216-6 for NEPA, http://www.nepa.noaa.gov/NAO216_6_TOC.pdf, and the Council of Environmental Quality implementation regulations, http://ceq.eh.doe.gov/nepa/regs/ceq/toc_ceq.htm.

Consequently, as part of an applicant's package, and under the description of project activities, applicants may be 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 systems). In addition to providing specific information that will serve as the basis for any required impact analyses, applicants may also be requested to assist NOAA in drafting an environmental assessment, if NOAA determines an assessment is required. Applicants may also be required to cooperate with NOAA in identifying feasible measures to reduce or avoid any identified adverse environmental impacts of their application. The 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 Grants Officer under a special award condition 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.

No NEPA information is required with the initial application. However, after review of the application, NEPA information may be requested if NOAA determines such information is required (see above).

C. Submission Dates and Times

Letters of Intent for all Competitions should be received by the Competition Manager by 5 p.m. Eastern Time, September 10, 2013.

Full applications for all Competitions must be received by 5:00 p.m. Eastern Time, November 14, 2013.

D. Intergovernmental Review

Applications under this program are not subject to Executive Order 12372, Intergovernmental Review of Federal Programs.

E. Funding Restrictions

Fees and profit are disallowed.

F. Other Submission Requirements

1. Full Application

Applications are submitted through grants.gov "Apply for Grants". If an applicant does not have Internet access, CPO Grants Manager Diane Brown should be contacted by mail at NOAA Climate Program Office (R/CP1), SSMC3, Room 12734, 1315 East-West Highway, Silver Spring, MD 20910 for hard copy submission instructions. Please allow two weeks after receipt for a response.

Please refer to the information about submission dates and times above to help ensure your application is received on time.

Applications are submitted through grants.gov "Apply for Grants".

V. Application Review Information

A. Evaluation Criteria

1. Importance/Relevance and Applicability of Application to the Program Goals (Stage 1 Weight =0%) (Stage 2 Weight = 100%) (Final Weight= 25%)

This criterion ascertains whether there is intrinsic value in the proposed work and/or relevance to NOAA, federal, regional, state, tribal, or local activities. For the CPO Grant Program Competition, this includes importance and relevance to the scientific priorities of the selected Competition(s). The PI's record of making his/her data accessible and useable by the scientific community in the past, and the procedures described in Section IV.B(5) Data/Information Sharing Plan will also be considered when evaluating the importance and relevance of the application.

2. Technical/Scientific Merit (Stage 1 Weight = 70%) (Stage 2 Weight = 0) (Final Weight =52.5%)

This criterion assesses whether the approach is technically sound and/or innovative, if the methods are appropriate, and whether the goals of the Competition will be realized through clear project goals and objectives. For the Climate and Societal Interactions competitions, this criterion also assesses the relative potential value to decision makers as well as any collaboration from relevant partners in the proposed project via providing in-kind support (e.g. research/staff time, workshops, computer time, gathering/providing data, and/or providing analyses). Federally-funded university researcher time already dedicated to another project cannot be considered. If applicable, applicants should describe how new resources from a partner would provide support to this project. (See the CSI information sheet for more details.)

3. Overall Qualifications of Applicants (Stage 1 Weight =20%) (Stage 2 Weight = 0) (Final Weight = 15%)

This criterion assesses whether the applicant team possesses the necessary education, experience, training, facilities, and/or administrative resources to accomplish the project.

4. Project Costs (Stage 1 Weight = 10%) (Stage 2 Weight = 0) (Final Weight =7.5%)

This criterion evaluates the budget to determine if it is realistic and commensurate with the project needs and time frame.

5. Outreach and Education (Stage 1 Weight = 0%) (Stage 2 Weight = 0) (Final Weight =0)

This criterion assesses whether the project provides a focused and effective education and outreach strategy regarding NOAA's mission to protect the Nation's natural resources. For the CPO Grant Program Competition, this criterion is not scored.

B. Review and Selection Process

Once a full application has been received, an administrative review will be conducted to determine compliance with requirements and completeness of the application.

The reviews will take place in two stages. In Stage 1, independent peer mail reviewers and/or independent peer panel reviewers consisting of both Federal and non-Federal experts will evaluate applications using the following three criteria described above: technical/scientific merit, overall qualifications of applicants, and project costs. Relevance will be assessed separately in Stage 2. The panel will not give consensus advice. The identity of mail reviewers and panel reviewers are privileged.

If a mail review is conducted during Stage 1, each reviewer will provide one score for each of three criteria: technical/scientific merit, overall qualifications of applicants, and project costs for each application.

If a panel review is conducted during Stage 1, each reviewer will provide one score for each of three criteria: technical/scientific merit, overall qualifications of applicants, and project costs for each application. The scores from the reviewers for each application will be combined using the weighting averages provided below to produce a single numerical score for Stage 1. Occasionally a reviewer may, due to lack of familiarity in a particular area, choose not to score a particular application. Proposals that score a 3.0 or higher (out of a possible high score of 5) in Stage 1 will proceed to Stage 2.

If only a mail peer review is conducted for Stage 1, proposals that score a 3.0 or higher (out of a possible high score of 5) in Stage 1 will proceed to Stage 2.

If a mail review and a panel review are both conducted for Stage 1, the mail reviews will be provided to the Stage 1 review panel for use in its deliberations prior to providing its ratings, but the Competition Manager will use only the numerical rank order of the peer

review panel to determine the average score for each proposal. Proposals that score a 3.0 or higher (out of a possible high score of 5) in Stage 1 will proceed to Stage 2.

In Stage 2, scores for Importance/Relevance and Applicability of Application to the Program Goals will be determined by a second panel comprising either federal or a combination of Federal and non-Federal partners. Each panel reviewer will provide a relevance score for each application that moved forward from Stage 1. The Stage 2 panel will not give consensus advice. The applications and their associated scores from Stage 1 will be provided to the Stage 2 panel.

The Stage 1 and Stage 2 weighting of scores for the individual criteria is shown in the following table:

Criterion	Stage 1 Weight	Stage 2 Weight	Final weight
1. Importance/Relevance and Applicability	0%	100%	25%
2. Technical/Scientific Merit	70%	0%	52.5%
3. Overall Qualifications of Applicants	20%	0%	15%
4. Project Costs	10%	0%	7.5%
5. Outreach and Education	0%	0%	0%
Stage Total	100%	100%	100%
Final weighting for each stage score	75%	25%	100%

To determine the final score, the scores from Stage 1 and Stage 2 will be combined, with a weighting of 75% for the Stage 1 score and 25% for the Stage 2 score, leading to the overall weightings for each criterion reported in section V.A above. The final score for each

application will be used to determine the numerical rank order of proposals within each Competition.

The Competition Manager will recommend applications to the Selecting Official in numerical rank order unless a recommendation out of rank order is justified based upon any of the factors listed in the following section. Should applications receive a tie score, and funding is not available for every tied application, the Competition Manager may preferentially recommend applications for funding also according to any of the factors listed in the following section. The Competition Manager will review the amounts requested for each selected application (including costs for computing and networking services) and recommend the total duration and the amount of funding, which may be less than the application and budget requested.

C. Selection Factors

The Selecting Official shall select awards in rank order unless a selection out of rank order is justified based upon any 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 area
 - e. By project types

3. Duplication of other projects funded or considered for funding by NOAA/Federal agencies

4. Program priorities and policy factors

5. Applicant's prior award performance

6. Partnerships with/participation of targeted group

7. Adequacy of information necessary for NOAA staff to make a NEPA determination and draft necessary documentation before recommendations for funding are made to the Grants Officer.

The Selecting Official makes final recommendations for awards to the Grants Officer who is authorized to obligate the funds.

D. Anticipated Announcement and Award Dates

Subject to the availability of funds, review of applications will occur during the 6-7 months following the full applications due date. CPO anticipates that funding decisions on applications will be made during spring 2014. Such decisions are contingent upon the final FY 2014 appropriation for NOAA by Congress and the final allocation of funds to CPO by NOAA. Funding for successful applicants is expected to begin during spring-summer 2014 for most approved projects. Applications should use August 1, 2014, as the start date unless otherwise directed by the Competition Manager.

VI. Award Administration Information

A. Award Notices

Successful applicants will receive notification that the application has been recommended for funding by an official of the NOAA Climate Program Office. This notification is not an authorization to begin performance of the project. Official notification of funding, signed by a NOAA Grants Officer, is the authorizing document that allows the

project to begin. Notifications will be issued to the Authorizing Official and the Principal Investigator of the project. Unsuccessful applicants will be notified that their application was not selected for recommendation.

B. Administrative and National Policy Requirements

The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements contained in the Federal Register notice of December 17, 2012 (73 FR 74634) is applicable to this solicitation.

Limitation of Liability: In no event will NOAA or the Department of Commerce be responsible for application preparation costs. Publication of this announcement in no way obliges NOAA to award any specific project or to obligate any available funds.

National Environmental Policy Act (NEPA): The National Environmental Policy Act is applicable to the Notice. See Section IV above for the necessary information.

C. Reporting

Award recipients are required to submit financial and technical progress reports. These reports are to be submitted electronically via <https://grantsonline.rdc.noaa.gov>. The first technical progress report covering the first 9 months of a multi-year award is due 10 months after the start date of the award. Each subsequent technical progress report covering a period of 12 months is due 12 months after the previous report. The comprehensive final technical progress report is due 90 days after the expiration date of the award.

Unpaid or Delinquent Tax Liability: In accordance with current Federal appropriations law, NOAA will provide a successful corporate applicant a form to be completed by its authorized representatives certifying that the corporation has no Federally-assessed unpaid or delinquent tax liability or recent felony criminal convictions under any Federal law.

The Federal Funding Accountability and Transparency Act of 2006: This Act includes a requirement for awardees of applicable Federal grants to report information about first-tier subawards and executive compensation under Federal assistance awards issued in FY 2011 or later. All awardees of applicable grants and cooperative agreements are required to report to the Federal Subaward Reporting System (FSRS) available at www.FSRS.gov on all subawards over \$25,000.

VII. Agency Contacts

Please visit the CPO website for further information <http://www.climate.noaa.gov/> or contact the CPO Grants Manager, Diane Brown, by mail (see address above) or at <diane.brown@noaa.gov>. Please allow up to two weeks after receipt for a response.

VIII. Other Information

None