

NOAA Coastal Storms Program RFP

Administered by
Ohio Sea Grant College Program

Request for Preproposals; funding available 12 May 2014 – 11 May 2016

The Ohio Sea Grant College Program, as part of the Great Lakes Sea Grant Network, and in cooperation with the National Oceanic and Atmospheric Administration (NOAA) Coastal Storms Program (CSP) is requesting preproposals for one- to two-year projects related to Great Lakes coastal community storm hazard resiliency. Great Lake's universities and colleges, local and regional governments, non-profits, homeowner and community associations, business organizations, and community-university partnerships are eligible. Approximately \$1,000,000 is available for projects during FY 2014-2016. Projects of up to two years in duration are acceptable and should fall into one of two categories, including indirect costs: 1) \$10,000-\$50,000 (will award up to 10 in this category) or 2) \$50,000-\$200,000 (will award 4-8 in this category). Collaborative proposals that promote partnerships and interdisciplinary solutions to address a wide range of coastal hazard challenges faced by communities are important considerations for the CSP funding.

PREPROPOSAL DEADLINE: Ohio Sea Grant must receive a single PDF version of the preproposal on its web page ohioseagrant.osu.edu/research/submit by **5:00 p.m. EST Wednesday, 18 December 2013**.

PROPOSAL DEADLINE: Ohio Sea Grant must receive a single PDF version of the full proposal on its web page ohioseagrant.osu.edu/research/submit by **5:00 p.m. EST Friday, 21 March 2014**.

The CSP is a nationwide effort to help coastal residents reduce the impacts that storms have on their families, communities, property, and environment. The program has a history of providing an array of tools and services in the project areas, which have included improved observing systems, forecast models, decision support tools, risk assessments, best management practices, socioeconomic information, and outreach and extension activities to enhance community resilience.

The CSP is currently focusing funds and resources in the Great Lakes coastal communities to help reduce and mitigate the risk from storm and weather hazards and climate change, specifically with regards to four focus areas:

- Improving beach hazard observations, modeling, forecasting/warnings, and risk communication
- Addressing impacts of stormwater on natural resources and promoting best management practices
- Enhancing shoreline mapping, visualization, and management
- Hazard Mitigation and Community Resilience

Ohio Sea Grant, with guidance from the Great Lakes Sea Grant Network and NOAA CSP, will fund projects that help Great Lakes coastal communities plan for, respond to, and recover from coastal storms. Proposed projects should support coastal storm and weather hazard community resiliency efforts in either one or more of the following ways: research, modeling, and capacity building; outreach and education; training and technical assistance; socio-economic assessment and analysis; and risk communication. Funding under this grant program may NOT be used for routine program implementation, regulatory compliance or mitigation, land acquisition, on-the-ground restoration or construction. More information on the Great Lakes CSP can be found at <http://www.seagrant.wisc.edu/glscsp>.

Funding Schedule & Summary

Friday, 22 November 2014, 2 p.m. EST Ohio Sea Grant will host a webinar for investigators/project leaders to discuss the process, ask questions, and explore possible opportunities for collaboration. (go.osu.edu/osgrfp13)	Monday, 10 February 2014 by 5 p.m. EST Project leaders / Project Principal Investigators will be notified of the status of their preproposals (encouraged or discouraged from submitting a full proposal). Tuesday, 18 February 2014, 2 p.m. EST Ohio Sea Grant will host a webinar for investigators/project leaders to discuss the process and ask questions. (go.osu.edu/osgrfp13)	Friday, 21 March 2014 by 5 p.m. EST Full proposal due. Applicants should submit a single PDF version of their full proposals by accessing ohioseagrant.osu.edu/research/submit and uploading files. Guidelines for preparing full proposals will be emailed Monday, 10 February 2014 Monday, 12 May 2014 Awards announced. 30 June 2015 and 30 June 2016 1-Year progress and completion reports due.	Funding Range \$10,000 to \$200,000 (project total) Proposal Submission Process Proposals are due electronically via the Ohio Sea Grant College Program proposal submission website, ohioseagrant.osu.edu/research/submit . All required forms are available at ohioseagrant.osu.edu/research/forms
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Priority Funding Areas

A primary goal of the NOAA CSP is to facilitate and enhance awareness and understanding of coastal hazard risks, promote community resilience, and reduce loss of life. Special consideration will be given to proposals that clearly identify how they assist underserved communities in the region and address one or more of the four CSP focus areas, see below.

Research projects should be focused on the application of project results and have measurable outcomes to identified end users. Projects must include a strong outreach and education component or product development (tools, services, and training) that enhance coastal planning and policy, emergency/disaster management, community hazard resilience, and coastal hazard mitigation/adaptation. Proposals that include the development of a product or tool should also identify long-term operation and maintenance plans for these services. Examples of project activities associated under the four focus areas include, but are not limited to:

1. Improving beach hazard observations, modeling, forecasting/warnings, and risk communication

- Improving weather, current, and water level observations and access to information.
- Develop innovative ways to improve detection, prediction, and notification of nearshore wave and current hazards
- Improving beach hazard awareness by engaging citizens, safety groups, community organization, etc. via community outreach and education.
- Beach hazard training, technical assistance, and support that are culturally relevant and address underserved populations
- Develop risk communication strategies and/or social marketing campaigns that target at-risk groups (teen boys, parents with small children, tourists, and/or non-English speaking populations).
- Implement beach safety kits, life jacket loaner programs, or other tools to address lack of lifeguards on Great Lakes beaches.

2. Addressing impacts of stormwater on natural resources and promoting best management practices

- Integrate low impact design, smart growth and/or green infrastructure into land use and development planning activities (e.g. infrastructure siting, waterfront, industrial, transportation, brownfield redevelopment, conservation, and urban, suburban and rural development) that address stormwater impacts and future storm/flood conditions associated with climate change.
- Improve awareness, via outreach and education, of stormwater impacts and best management practices by engaging citizens, community groups, developers/contractors/realtors.
- Develop guidelines, policy, and/or trainings and that support the enforceable implementation of stormwater best management practices.
- Develop social marketing strategies that address specific behaviors that impact stormwater toxicity (i.e. use of coal tar sealants, fertilizers, etc.)
- Conduct ecosystem valuation and cost/benefit analysis of green/grey practices to support industrial waterfront redevelopment or in the context of post-storm recovery/rebuilding.

3. Enhancing shoreline mapping, visualization and management

- Gather data and conduct mapping of land-use and land-cover change, floodplain and flood-elevation, and or topography (land elevation), and bathymetry (water depth).
- Determining rates of shoreline change from human and natural impacts and develop mapping and visualizations to support management/local ordinance needs.
- Conduct risk and vulnerability assessments to determine shoreline/flood impacts and mitigation/adaptation strategies and techniques.
- Investigate impacts of intense storm events on communities and natural resources (flooding, wetland composition, shoreline condition, etc.).
- Demonstrate the connections between planning/policy decisions (e.g. land use ordinances, infrastructure siting, redevelopment planning) to address impacts from shoreline erosion/flooding.

4. Hazard Mitigation and Community Resilience

- Determining socioeconomic impacts of climate change on coastal resilience (population dynamics, demographic shifts, infrastructure, commerce/shipping centers, etc.) in waterfront communities/cities.
- Integrating climate change science into hazard mitigation and resiliency planning, policy, and/or development activities.
- Investigate impacts of intense storm events and climate change on stormwater in areas with aging infrastructure.
- Create and implement tools that support or improve homeowner and/or community hazard mitigation and resiliency.

Funding Levels

Total funding available is \$1,000,000. Up to two-year projects that fall into the following two categories are requested.

Category 1: \$10,000-\$50,000 (will award up to 10 in this category)

Category 2: \$50,000-\$200,000 (will award 4-8 in this category)

Match Requirement: Matching funds and partnerships are not required; however, community based projects that are both highly matched and include a university partner will be given preference.

Projects will begin on 12 May 2014 and end 11 May 2016. Second year awards will be granted after the successful completion and reporting of year one.

Eligibility

Faculty from universities and colleges, local (regional, state, county, city, tribal) and other small governments, non-profit groups, homeowner and community associations, commercial organizations, and community-university partnerships are eligible.

Principle investigators/project leaders must conduct business in the Great Lakes' coastal counties of Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio, Pennsylvania, New York, or Vermont (Lake Champlain). Applicants with regionally applicable projects outside these areas are encouraged to partner with an eligible entity within the region as a multi-regional partnership.

Target audiences of the Great Lakes CSP include:

- Emergency and resource managers (example: emergency, weather service, floodplain, natural resource, land- and estuarine-use, port authorities)
- Land-use planners (example: state and local planners, natural resource and sustainability organizations, developers)
- Local and regional governments
- Chambers and departments of commerce
- Homeowners and community/tribal associations and organizations
- Academic and/or research communities
- Primary, secondary, and tertiary education systems

Decision Process Used By Ohio Sea Grant

Ohio Sea Grant will use an advisory panel review to evaluate pre-proposals and full proposals. Members of the advisory panel will be selected based on recommendations from all seven of the Great Lakes States and Lake Champlain. Members of the panel will be coastal storm and hazards, climate adaptation, and community resiliency experts.

PREPROPOSALS: The preproposal process allows investigators/project leaders to propose projects and receive feedback without spending the time required to prepare a full proposal. Successfully completing the preproposal process (i.e., being asked to submit a full proposal) does not, however, guarantee funding.

A preproposal PDF (with all pieces of the pre-proposal **in one PDF document**) must be submitted to Ohio Sea Grant **by 5 p.m. EST on Wednesday, 18 December 2013**. Applicants should submit by accessing ohioseagrant.osu.edu/research/submit and uploading files. Preproposals should include:

All of the documents listed below should be included in a single PDF file:

- A cover page of your own design that includes the project title, requested budget total, and the name, affiliation, address, telephone number, and email address of each investigator;
- A maximum of two pages of summary narrative (form 90-2) explaining the objectives, methodology, and rationale for the proposed project (12 point, Times New Roman font preferred); 90-2 is available on Ohio Sea Grant's web site (ohioseagrant.osu.edu/research/forms);
- A Sea Grant budget form (form 90-4) for each year of the project and a summary budget combining all years (90-4 available on Ohio Sea Grant's web site at ohioseagrant.osu.edu/research/forms);
- A budget narrative;
- A two-page vita for each investigator; and
- Up to three short letters of support from partners in management agencies or industry (encouraged, but not required).

A panel of coastal storm and hazards, climate adaptation, and community resiliency experts will review all preproposals. Full proposals will then be solicited from those investigators/project leaders receiving the best reviews. The number of preproposals selected is based on the quality of the preproposals and an estimate of funding that is available. It is inevitable that budget constraints will eliminate some proposals. The first investigator/project leader listed on each preproposal will be contacted with the results of the review by Monday, 10 February 2014.

FULL PROPOSALS: Guidelines for preparing full proposals will be emailed Monday, 10 February 2014, and will include the following sections:

- Summary (90-2)
- Budget forms (90-4) and justification
- Proposal (10-pages max): introduction/background/rationale; objectives; methodology; timeline/project schedule; budget justification; facilities, equipment, personnel, and other resources; and literature cited
- A two-page vita for each investigator/project member
- Support letters from interested agencies, municipalities, industry, constituencies, collaborators, etc.

Full proposals will be due by 5:00 p.m. EST on Friday, 21 March 2014 and will be immediately sent to reviewers. Note that this year there is a new federal requirement that asks principal investigators/projects leaders to make all data associated with your funded project, including a thorough description of the data, available to outside requests within two years of completion of the project. Additional details about this requirement will be included in the full proposal instructions.

ADVISORY PANEL REVIEW: A panel of coastal storm and hazards, climate adaptation, and community resiliency (same panel as for preproposals) will review all full proposals. Award funding will be based on merit and qualifications but representative regional distribution of the funding will be considered in the review.

Questions Asked of a Research Proposal

OBJECTIVES: What are the goals of the project? What do you hope to accomplish? Objectives should be stated so as to be verifiable upon completion of the project. For research proposals, quantifiable and hypothesis-based objectives are often a good idea. The development of a timeline or schedule is also desirable.

METHODOLOGY: Describe your project/research plan and methods. Specify any standard techniques, special equipment, computer models, etc., that you plan to employ. Be as explicit as space allows.

RATIONALE: Summarize the problem or opportunity being addressed. Why is this an important issue? The project does not need to promise to fully solve a problem, but it should be a logical step toward a solution. Identify groups that can use the information being developed (involving these groups in your proposals is encouraged) and/or explain how this information is applicable to the problem or opportunity being addressed. Include a literature review as space allows.

FORMAL EXTENSION/OUTREACH COMPONENT: An outreach component is required of all CSP-funded projects/research. Preproposals should outline the outreach conceptual design and approach. It is often helpful to discuss potential projects with people in industry, government/agencies, or Sea Grant Extension staff; their support can often significantly strengthen a proposal. Invited full proposals will be asked to identify the extension and outreach method, objectives and strategies, partnerships, and target audience. Questions regarding outreach can also be answered by one of the Great Lakes NOAA Coastal Storm Program Coordinators, Julia Noordyk (noordykj@uwgb.edu, (920)-465-2795) or Brent Schleck (bschleck@d.umn.edu, (952)-368-2507).

POINTS TO CONSIDER: Matching funds and partnerships are not required; however, community based projects that are highly matched and include a university partner will be given preference. Matching nonfederal support may include:

- salaries, wages, and benefits of those working on the project;
- expendable supplies and equipment;
- donated supplies, space, or equipment; and
- unclaimed indirect costs.

Principal investigators/projects leaders are required to submit a 1-Year progress report and completion report. Progress/completion reports for Sea Grant projects will be submitted electronically through our web site annually. Contact the Ohio Sea Grant office if you have any questions regarding this process.

NOAA Coastal Storms Program Past & Current Small Grant Awards

Listed below are titles of projects funded by the CSP Small Grants Program in other regions

Selected 31 January, 2013 to 31 January 2015 Pacific Islands CSP small grants projects:

- Installation of coastal high frequency radar arrays to monitor ocean currents and improve community storm preparedness: Hilo Bay, Hawai'i Island
- Assessment of Hazards Awareness and Participatory Planning for All Hazards Resiliency on Guam
- Post-Disaster Reconstruction Guidelines and Protocols for Conservation of Coastal Resources and Protection of Coastal Communities, Maui County, Hawai'i
- Geospatial Information Development and Application to Support Effective Decision-Making in the Federated States of Micronesia
- Residents' Natural Hazards Handbook for the Republic of the Marshall Islands
- Ready Hawaii Smartphone Application (Ready Hawaii App)
- Coastal Community Resilience Course Development and Training in the Federated States of Micronesia and the Republic of the Marshall Islands

Selected 1 April 2009 to 31 March 2010 Gulf of Mexico CSP small grants projects:

- Community Hurricane Preparedness
- Decision support to local governments in budget planning under coastal risk
- Faith Community Preparedness and Resilience Project
- Mitigating coastal hazards risks through community education/outreach to facilitate participation in NFIP's Community Rating System (CRS)
- Hurricanes, institutional procedures, and information processing (HIPIP)
- Three television programs on storm resiliency for Alabama/Mississippi Gulf Coast
- The impact of accelerated sea level rise on tidal marshes and storm surge
- Development of new geospatial technology/traditional ecological knowledge derived information tools for the restoration of ecosystem-dependent livelihood bases of coastal communities
- Enhancement of bioretention to promote civic hydrology and sustainability for coastal cities through innovative planning, design, and engineering of stormwater management, utilization and control

For more information about CSP-funded projects, visit the regional program's respective web sites at:

<http://Seagrant.soest.hawaii.edu/noaa-coastal-storms-program> **and** <http://masgc.org/coastal-storms-program/home>.

ADDITIONAL INFORMATION: If you have questions or would like more information about:

- Coastal Storms Program or proposals, please contact Julia Noordyk, CSP Outreach Coordinator, University of Wisconsin Sea Grant Institute, noordykj@uwgb.edu, 920-465-2795 or Brent Schleck, CSP Outreach Coordinator, Minnesota Sea Grant College Program, bschleck@d.umn.edu, 952-368-2507
- Budget questions, please contact Bryan Ford, Business Manager, Ohio Sea Grant College Program, ford.95@osu.edu, 614-247-6266
- Technical support for online application process or forms, please contact George Oommen, IT specialist, Ohio Sea Grant College Program, Oommen.6@ous.edu, 614-292-8949
- Great Lakes Coastal Storms Program website (hosted by University of Wisconsin Sea Grant Institute): www.seagrant.wisc.edu/glcsp
- NOAA Coastal Storms Program website: <http://www.csc.noaa.gov/csp>

Great Lakes Sea Grant Network coastal storms and hazards Extension specialists:

Brent Schleck

Coastal Storms Outreach Coordinator, Minnesota Sea Grant College Program
952-368-2507, bschleck@d.umn.edu

Julia Noordyk

Water Quality and Coastal Communities Specialist,
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Josh Gunn

Clean Marina Extension Educator, Michigan Sea Grant College Program
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Leslie Dorworth

Aquatic Ecology Specialist, Illinois-Indiana Sea Grant
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Sarah Orlando

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Sarah Whitney

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Dave White

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Elissa Schuett

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