Translating Coastal Research into Application Federal Funding Opportunity (FFO)

US Coastal Research Program (USCRP) and the National Sea Grant College Program (SG)

Webinar May 16, 2022

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USCRP
US COASTAL RESEARCH PROGRAM

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Sea Grant

2022 FFO: Translating Coastal Research into Application

- Opportunity Number: NOAA-OAR-SG-2022-2007298
- Posted on grants.gov - May 10, 2022

Today's Webinar will review

1. What is Sea Grant?
2. What is the US Coastal Research Program?
3. 2022 FFO: Translating Coastal Research into Application
    a. Eligibility & Funding
    b. Program Objectives & Priorities
    c. Requirements
    d. Review Criteria
4. Questions

What is Sea Grant?

Photo credit: Beth Bisson, Maine Sea Grant

Based at universities across the country, Sea Grant works to provide research and outreach that help build and grow innovative businesses, protect against environmental destruction and natural disasters, and train the next generation of leaders.

NOAA

Sea Grant

34 University-based programs

States

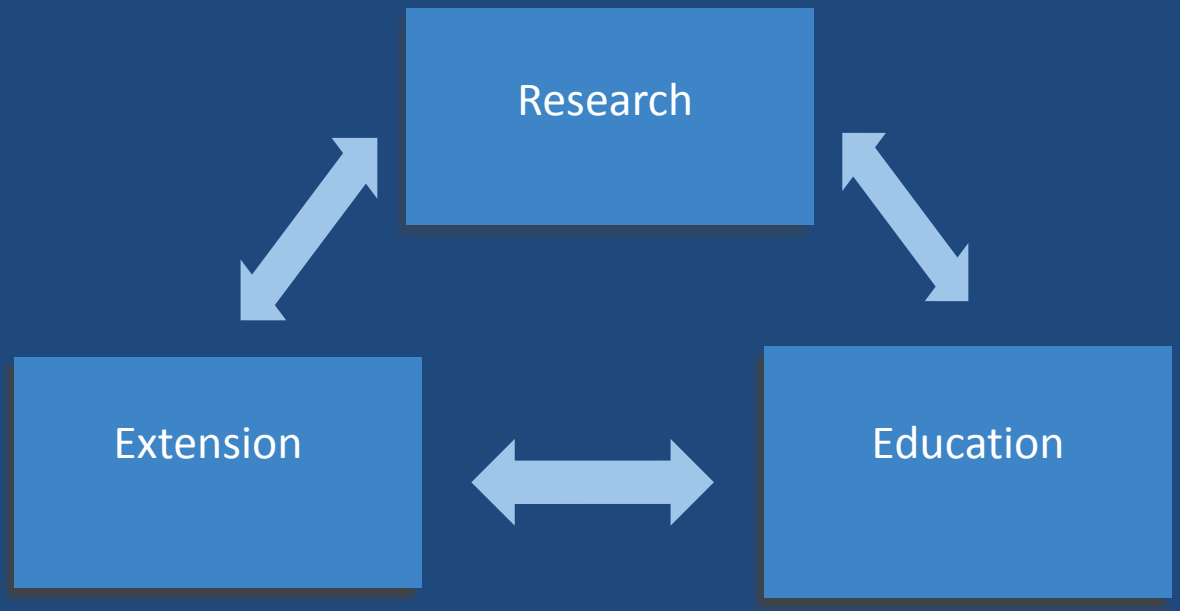
Industry

Institutions

Sea Grant Strategic Focus Areas

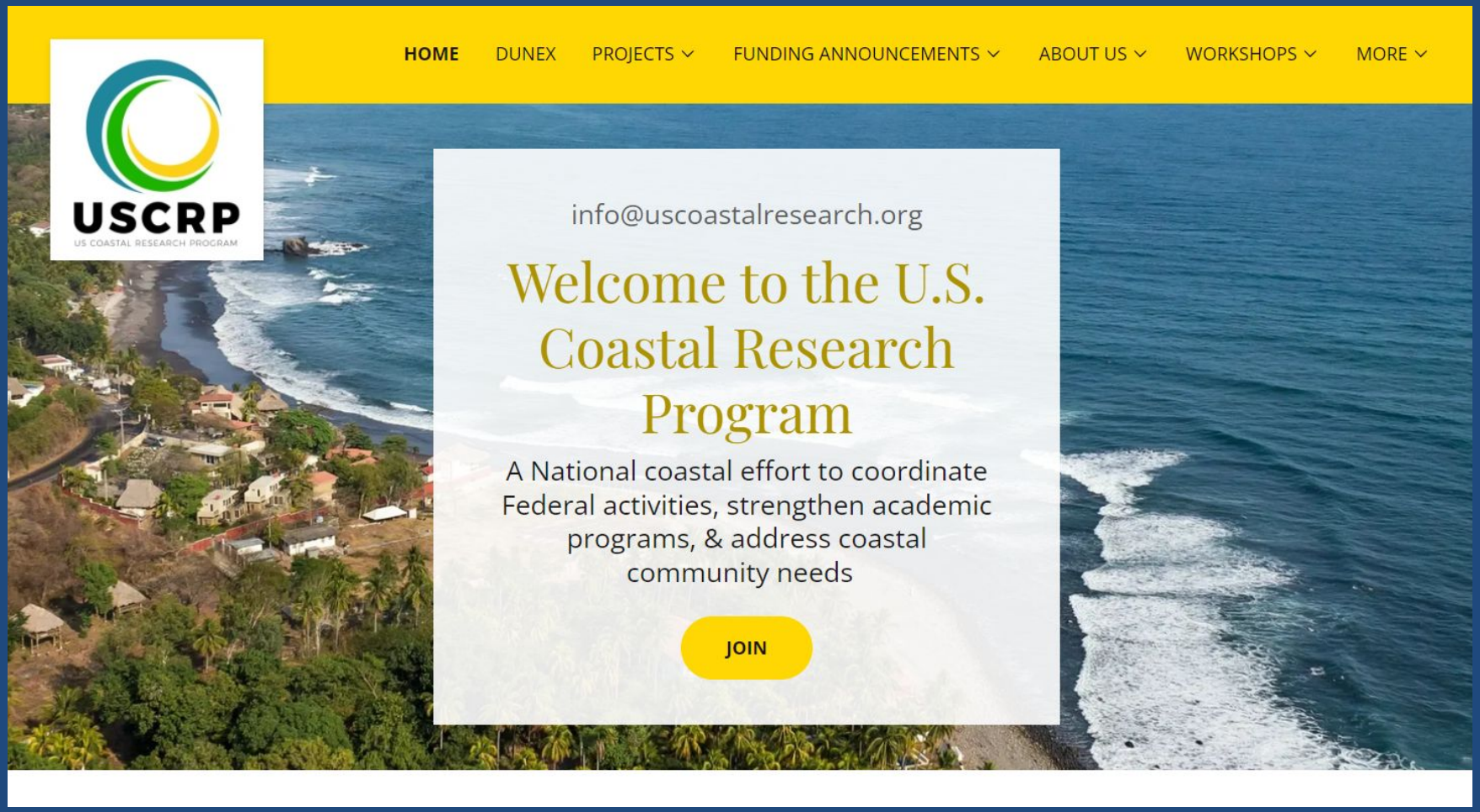
Sea Grant - A Community-based Federal / State Partnership Program

The Sea Grant Model



Working through a network of community-based programs

What is USCRP?

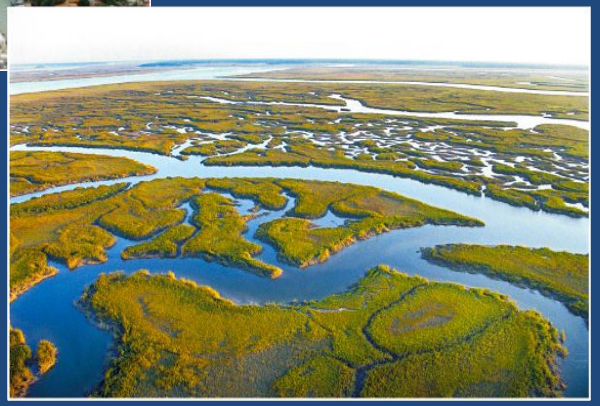


USCRP Research Themes

Complex issues require integrated approaches and provide opportunities for unique, and new partnerships

Extreme events: storm-induced flooding, coastal erosion, community impacts, natural recovery

Long-term processes and coastal response: sea level changes, future storms, sediment supply, land use changes, human interventions



Biological, chemical, physical processes that impact human and ecosystem health.

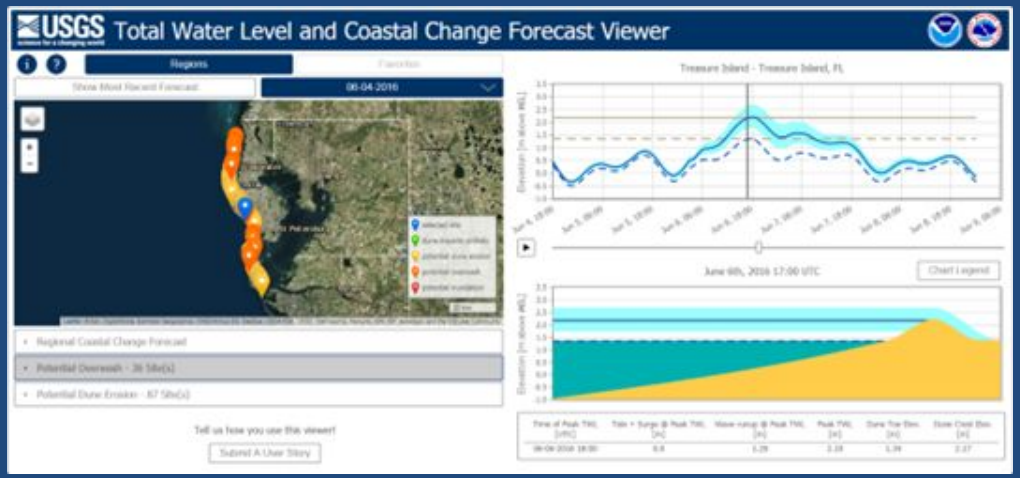
USCRP
US COASTAL RESEARCH PROGRAM

Nearshore Report:
https://uscoastalresearch.org/publications

USCRP Enabling Infrastructure

Observations: Development of new sensors and methods, focused programs, and expanded nearshore observing systems; provide test beds to compare and improve models.

Modeling: Improved process representation, better model coupling, incorporation of data assimilation techniques, and testing of real-time models.



Coordination/Collaboration: Collaboration between academia, government, and industry will enable efficient transfer of results and predictive tools to stakeholders, supporting informed decisions that will improve diverse aspects of coastal management.

USCRP
US COASTAL RESEARCH PROGRAM

U.S. Coastal Research Program

Federal agencies, academics, and stakeholders collaborating to develop a national coastal research program that addresses communities' challenges

Overview | Identifying Research Priorities | Academic Research Funding | Fostering Collaboration | Promoting Science Translation

Research Projects

Overview | Long Term Processes Research | Extreme Events Research | Human and Ecosystem Health Research

Since inception, the USCRP has provided a total of $11.4 million dollars in funding to university research and education programs.

Dune Management Challenges (2016): 5 projects

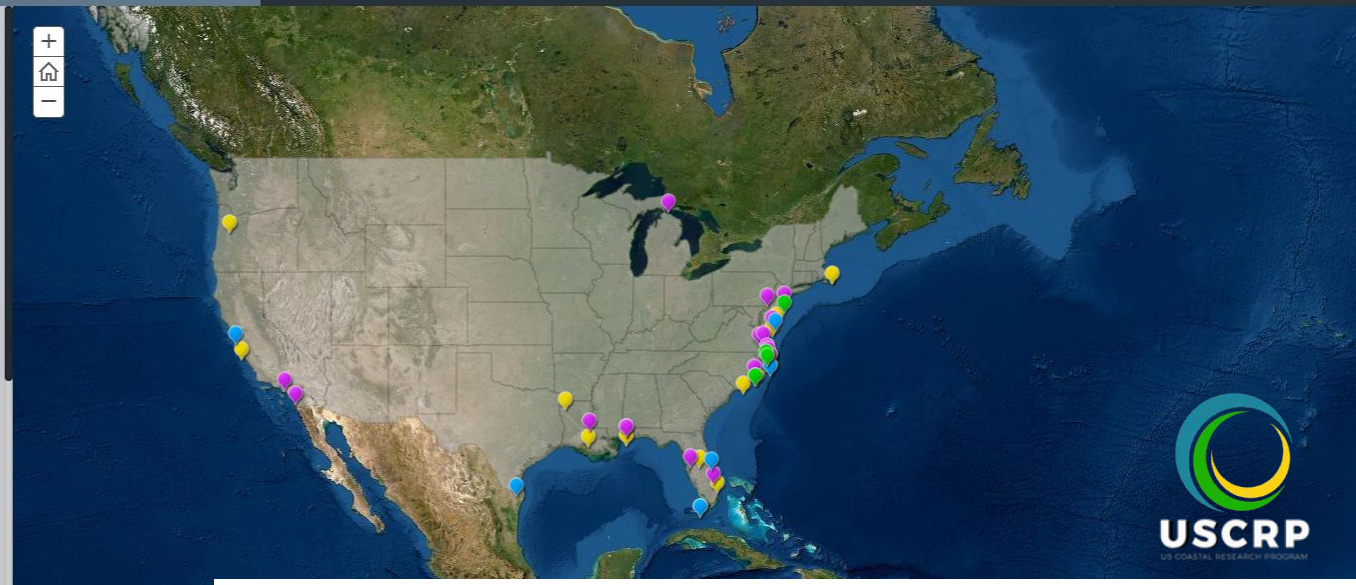
Storm Processes and Impacts (2018): 7 projects

Research in Support of Federal Coastal Priorities (2019): 24 projects including DUNEX

Long-term Coastal Processes; Estuarine Ecosystems (2020): 15 projects

The USCRP enhances research opportunities for academics and students by securing and directing funding to university programs. Funding from federal sources is targeted at research that addresses user challenges and priority science questions pertaining to the three priority research themes identified in the Nearshore Report. Proposals require participation from practitioners who will use research outcomes. By leveraging and expanding federal funding, opportunities are created for coastal science and engineering university programs to advance their research directions, provide graduate student opportunities, and connect their work to national coastal priorities.

Proposed research should address the user-identified needs or federal science priorities with products that are likely to have a positive impact in coastal communities. To advance expertise in coastal science and engineering, funding is directed towards projects that support graduate



USCRP Story Map:
https://bit.ly/uscrp-projects

USCRP Research Highlights:
https://uscoastalresearch.org/2020-research-highlights

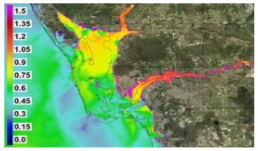
FY19 Funded Research

University of Washington

Coherent drifter arrays during DUNEX is focused on studying nearshore wave breaking and wave-driven circulation during the DUNEX experiment using a coherent arrays of drifting microSWIFT buoys. **The project** is helping the **Army Corps** develop new rapid-response sampling tools for the coastal community, including mapping patterns of waves, currents, and inundation.
Dr. Jim Thomson

Photo: Launch of a microSWIFT buoy from the FRF pier (Duck, NC); October 2019.

University of North Carolina-Chapel Hill



Climatological and Hydrodynamic Model Uncertainties quantifies uncertainties in storm surge models and flood hazard studies by leveraging large datasets of modeled and measured water levels. The work will help the **Nuclear Regulatory Commission, the Army Corps, FEMA** and other stakeholders include improved understanding of model error structure and more accurate flood hazard estimates.
Dr. Rick Luettich and Taylor Asher

Image: Increase (m) in the 0.2% (500-year) probabilistic surge hazard in SW FL by including uncertainty

Rutgers University

Oyster farms located in shallow coastal habitats provide a plethora of ecosystem functions, including physically interacting with waves and currents to potentially stabilize sediment and protect vulnerable shorelines. **Back bay shellfish farms as a model for studying coastal ecosystem feedback systems** investigates how oyster farms may act to reduce habitat loss and shoreline loss, ultimately helping the **Army Corps** and other stakeholders develop shoreline management practices, adaptation planning, and in permitting considerations for future aquaculture operations.
Dr. Daphne Munroe

Partnership

- The goal of the FY22 funding opportunity and partnership with NOAA Sea Grant is to move USCRP research and development findings toward application through service delivery and decision support for coastal community decision-makers, planners, and other coastal stakeholders. The partnership encourages academic researchers to partner with Sea Grant Programs and share the tools and resources to conduct successful science translation projects.

Partnership

- The U.S. Coastal Research Program (USCRP) is partnering with NOAA Sea Grant as a key aspect of the USCRP is transitioning science to coastal communities, and Sea Grant holds high expertise in this area. This partnership will allow USCRP to more effectively and efficiently partner with coastal **stakeholders** to translate fundamental science problems and research to outcomes that benefit coastal communities and improve resilience.

TRANSLATING COASTAL RESEARCH INTO APPLICATION

Image credit: Tim Briggs | New Hampshire Sea Grant

The U.S. Coastal Research Program (USCRP) in partnership with NOAA Sea Grant is publishing a notice of funding opportunity to integrate research, its application, and community engagement in thematic areas of long-term coastal evolution, extreme storms, and human and ecosystem health.

Proposals should address the needs or gaps that have been identified by or are evident from USCRP-funded projects, to move research project findings toward application through service delivery and decision support for coastal community decision-makers, planners, and other coastal stakeholders

$4,000,000

in collaborative nearshore research funding is anticipated to be available with partnership from:

USCRP
US COASTAL RESEARCH PROGRAM

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Sea Grant

Applications must be submitted by a Sea Grant Program
Pre-submission webinar on May 16, 2022 (register here)
Letters of intent due June 15, 2022
Full proposals due August 30, 2022

DETAILS AT SEAGRANT.NOAA.GOV/FUNDING

MOTIVATION

FOR PARTNERSHIP

The U.S. Coastal Research Program (USCRP) is partnering with NOAA Sea Grant as a key aspect of the USCRP is transitioning science to coastal communities, and Sea Grant holds high expertise in this area. This partnership will allow USCRP to more effectively and efficiently partner with coastal stakeholders to translate fundamental science problems and research to outcomes that benefit coastal communities and improve resilience.

GOALS

The goal of the FY22 funding opportunity and partnership with NOAA Sea Grant is to move USCRP research and development findings toward application through service delivery and decision support for coastal community decision-makers, planners, and other coastal stakeholders. The partnership encourages academic researchers to partner with state Sea Grant Programs and share the tools and resources to conduct successful science translation projects.

SUMMARY

U.S. Coastal Research Program

The U.S. Coastal Research Program (USCRP) is a multi-agency led effort to coordinate Federal activities, strengthen academic programs, and address coastal community needs. Past USCRP opportunities have funded university researchers across the U.S. to tackle coastal science and engineering questions in a variety of environments along all of the nation's coastlines. The goal of the USCRP is to sustain a community of practice to address societal needs along the coast.

USCRP will continue as a coordinating organization to identify federal agency and stakeholder priorities for research needing to transition into practice to enable coastal resilience.

With these priorities in-hand, USCRP will play a key role in defining key topic areas, reviewing proposals and awards, and tracking awards and deliverables through their 2–5-year span in collaboration with NOAA Sea Grant personnel.

NOAA Sea Grant

The National Sea Grant College Program was enacted by the U.S. Congress in 1966 (amended in 2020, Public Law 116–221) to support leveraged federal and state partnerships that harness the intellectual capacity of the nation's universities and research institutions to solve problems and generate opportunities in coastal communities.

NOAA provides funding to Sea Grant Programs to increase the understanding, assessment, development, management, utilization, and conservation of the Nation's ocean, coastal, and Great Lakes resources.

The Sea Grant workforce serves as neutral brokers of information in coastal communities, providing reliable technical and science-based information to decision-makers and residents to address local needs while also transferring research priorities back to their universities.

Image credit: Tim Briggs | New Hampshire Sea Grant

Image credit: Alexander Jerabek (USCRP)

Image credit: Photo: Jack Sea Grant

CONNECT WITH US ONLINE

uscoastalresearch.org
seagrant.noaa.gov

@USCRP
@SeaGrant

@uscoastalresearch
@NOAA.SeaGrant

@uscoastalresearch
@seagrant_noaa

QUESTIONS?

oar.hq.sg.competitions@noaa.gov

Please specify "Translating Coastal Research into Application" in the subject line

Read in Attachments or at seagrant.noaa.gov/funding

2022 FFO: Translating Coastal Research into Application

- Opportunity Number: NOAA-OAR-SG-2022-2007298
- Posted on grants.gov - May 10, 2022

Funding Opportunity Objective:

Because increasing resilience in coastal areas is critical, this year's funding opportunity aims to support projects that will engage coastal community decision makers and help to advance the outcomes, successes, and lessons learned from past USCRP funded research

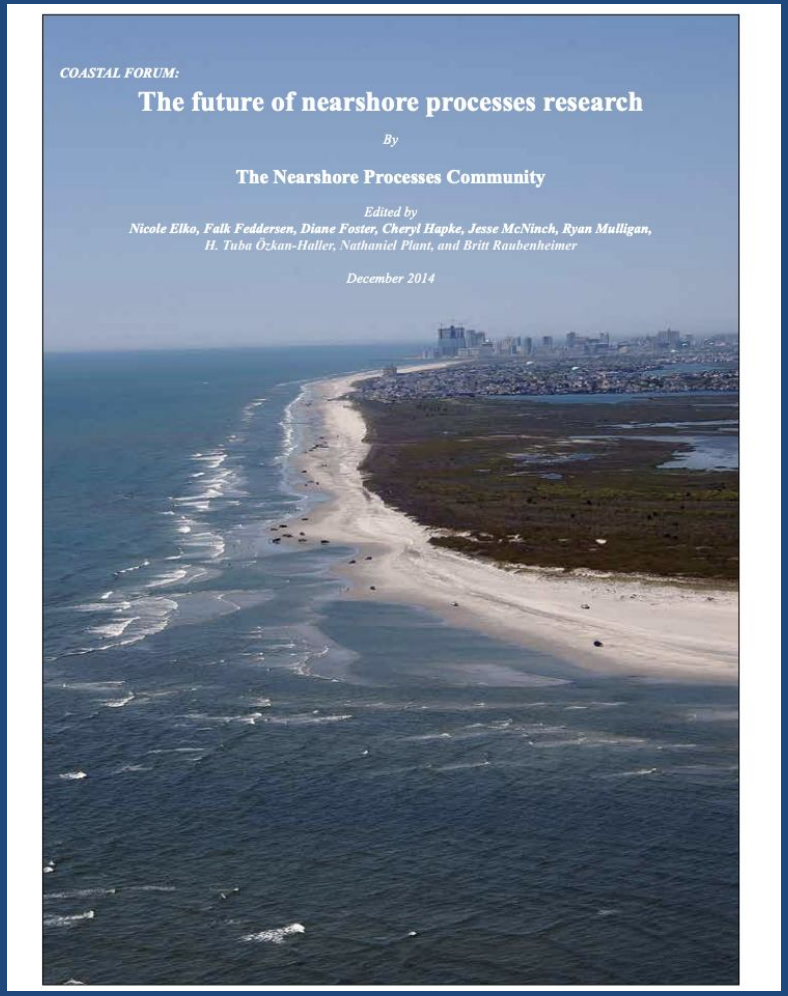
Project Funding & Award Period

- Project Award Period
  - Tier 1:
    - Up to $150,000 in federal funds over two years (January 1, 2023 - December 31, 2024)
    - Projects that address one or more previously-funded project(s) and are relevant to program priorities
  - Tier 2:
    - Up to $500,000 in federal funds over four years (January 1, 2023 - December 31, 2026)
    - Projects proposing multi-partner efforts that address one or more previously-funded projects(s) and are relevant to the program priorities.

Program Priorities

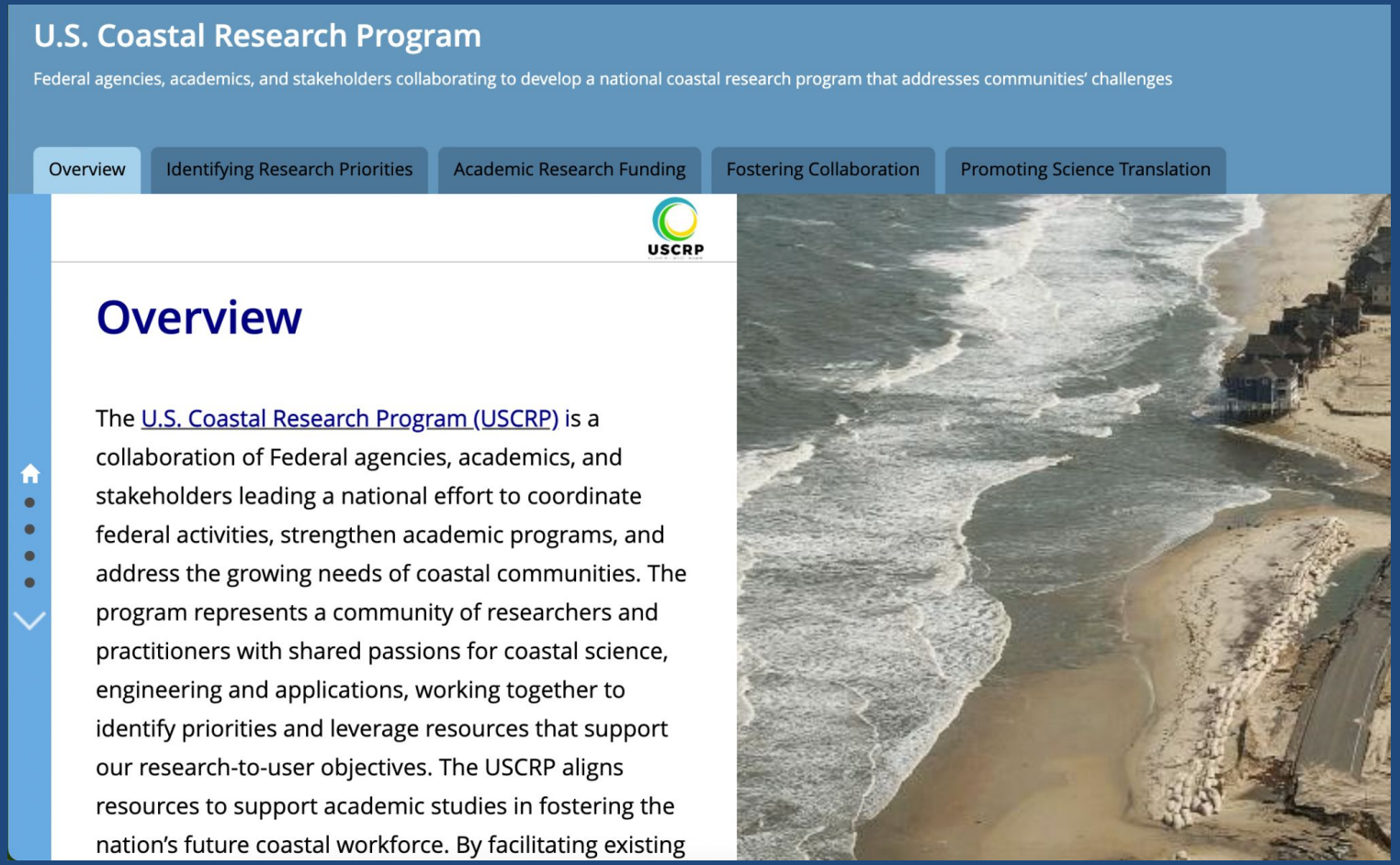
The Nearshore Report (2015)

- Thematic program areas
  - long-term coastal evolution
  - extreme storms
  - human and ecosystem health



https://uscoastalresearch.org/publications

Program Priorities



https://bit.ly/uscrp-projects

Program Priorities

- Needs or gaps that have been identified by or are evident from USCRP-funded projects
  - Move research project findings toward application through service delivery and decision support for coastal community decision-makers, planners, and other coastal stakeholders.
  - Integrate research, outreach, and education to engage with coastal stakeholders
- Collaborative programs in which multiple disciplines and sources of knowledge are integrated holistically to lead to new and novel understanding and solutions to coastal resilience issues

- Note: Applicants and their partners do not need to have been previously funded by USCRP

Program Priorities

- Include multiple partners with a clear connection to coastal stakeholders and needs. Academic collaborations are encouraged.
- Support students who are developing research and leadership skills by placing at least one graduate student in a leadership role and potentially by bringing STEM undergraduates into the coastal field.
- Applicants are encouraged to include a diversity of disciplines in student support, as appropriate.

Eligible Applicants

- Eligible Applicants: Sea Grant College Programs, Sea Grant Institutional Programs, and Sea Grant Coherent Area Programs.
- Partnerships Encouraged: any individual; any public or private corporation, partnership, or other association or entity (including any Sea Grant Program or other institution); or any State, political subdivision of a State, Tribal government or agency or officer thereof.
- Federal agencies and their personnel may serve as uncompensated partners or co-Principal Investigators

Eligible Applicants

- Sea Grant programs can be found at: https://seagrant.noaa.gov/About.
- If you need further assistance in identifying a Sea Grant program to partner with:
  - Contact Elizabeth Rohring or Nikola Garber at oar.hq.sg.competitions@noaa.gov.
  - Specify NOAA-OAR-SG-2022-2007298 funding opportunity in the subject line.

Requirements & Deadlines

Letters of intent Letter (LOIs)

- Due **June 15, 2022 5:00 pm local time**
- Send via email (oar.hq.sg.competitions@noaa.gov)
- Required to be eligible to submit a full proposal.

Full proposals (applications)

- Due in Grants.Gov by 11:59 p.m. **Eastern Time** on August 30, 2022.

Letters of Intent

Letters of intent Letter (LOIs)

- Due **June 15, 2022 5:00 pm local time**
- Send via email (oar.hq.sg.competitions@noaa.gov)
- Required to be eligible to submit a full proposal.

Elements (maximum of 3 pages)

- Cover Page
- Budget Overview
- Project Plan

Full proposals

Elements

- Project narrative
  - Project description (included in page limit)
    - Proposal overview
    - Goals and objectives
    - Societal and program relevance
    - Qualifications
    - Approach to community engagement
    - Deliverables
    - Partners
    - Diversity statement

Full proposals

Elements

- Budget narrative
  - Sea Grant 90-4 Form
  - Budget justification
    - Note: Applicants must also include in their budget, travel funds for at least one student and one PI for one in person meeting for Tier 1 and up to two in person meetings for Tier 2 applications.
    - Dates and location will be announced at a later date. For budgeting purposes, this may be in connection with a national conference or in the Washington, DC area for a period of 3 days

Full proposals

Elements

- Overall application
  - SF-424 Form - Application for Federal Assistance
  - SF-424A Form - Budget Information - Non-Construction
  - SF-424B Assurances – Non-Construction Programs
  - CD-511 - Certification Regarding Lobbying
  - SF-LLL (if relevant) - Disclosure of Lobbying Activities

Evaluation Criteria

Criterion	Value
1. Importance/relevance and applicability of proposed projects to the program priorities	25 Points
2. Stakeholder Engagement	20 Points
3. Technical/scientific merit	15 Points
4. Overall qualifications of applicants	15 Points
5. Project costs	10 Points

Evaluation Criteria

Criterion	Value
6. Graduate Student Support	5 Points
7. Diversity, Equity, and Inclusion	5 Points
8. Deliverables & Timeline	5 Points

Resources for all NOFOs

Sea Grant Forms (90-2, 90-4, Abbreviated Environmental Compliance Questionnaire)
https://seagrant.noaa.gov/insideseagrant/Implementation

Sea Grant Application Guidance
https://seagrant.noaa.gov/Portals/1/Guidance/SeaGrantGeneralApplicationGuide.pdf

2 CFR 200 - Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards
https://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title02/2cfr200_main_02.tpl

Contact Information

Competition Inbox (managed by a team):
oar.hq.sg.competitions@noaa.gov

Elizabeth Rohring, Engagement Lead and
Dr. Kola Garber, Deputy Director and Acting Assistant Director for Partnerships: