

HAB Control Technologies Incubator FY 2022 NOFO



Felix Martinez
Program Manager

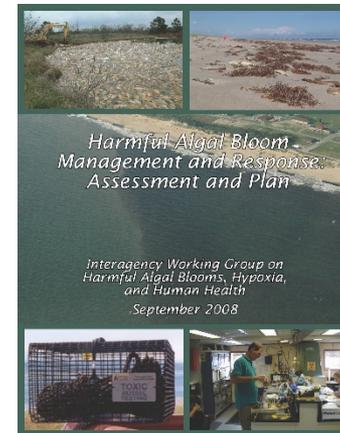
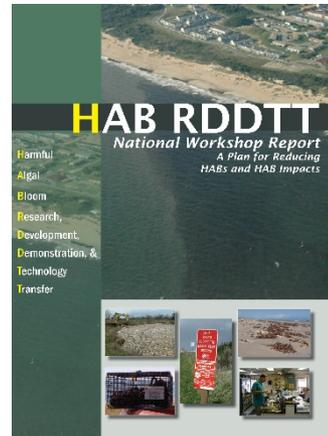
Jennifer Hinden
Grants Administrator



COMPETITIVE RESEARCH PROGRAM
NATIONAL CENTERS FOR COASTAL OCEAN SCIENCE

NOAA HAB Control: History

- HABHRCA authorizes a national HAB control research program
“the National Ocean Service of the NOAA to carry out a peer-reviewed research project on management measures that can be taken to prevent, reduce, control, and mitigate HABs” 1998
- 2008 Community Report & HABHRCA Report to Congress



- 2009 FRN describing PCMHAB program
- 2010 First competition



PCM HAB Goals

- **Develop and make widely available new socially and environmentally acceptable strategies and methods for PCM of HABs**
- **Assess the costs and benefits of PCM**



University of Delaware Professor Kathryn Coyne (right) and doctoral student Yanfei Wang conduct an experiment using the *Shewanella* bacteria-derived dinoflagellate algicide. Credit: University of Delaware.



Pilot study of clay dispersal conducted at the Sarasota Outboard Club canal, Sarasota, FL. Credit D. Anderson, WHOI



PCMHAB Topics

- **Prevent HABs**
 - Use/modify existing models to identify strategies to prevent HABs
 - Minimize/prevent introductions of invasive HAB species, their cysts, & organisms that facilitate the success of HAB species
- **Control HABs and their impacts**
 - Eliminate/reduce HAB organisms or toxins through biological, chemical, or physical treatment
- **Mitigate HABs & their impacts by developing or improving methods**
 - HAB cell & toxin detection
 - Relocate or modify aquaculture facilities & wild-capture resources
 - Harvesting bans/closures; modified fishing & processing practices
 - Education & outreach; enhancing community capacity to respond to social & economic impacts
 - Actions to reduce wildlife mortality

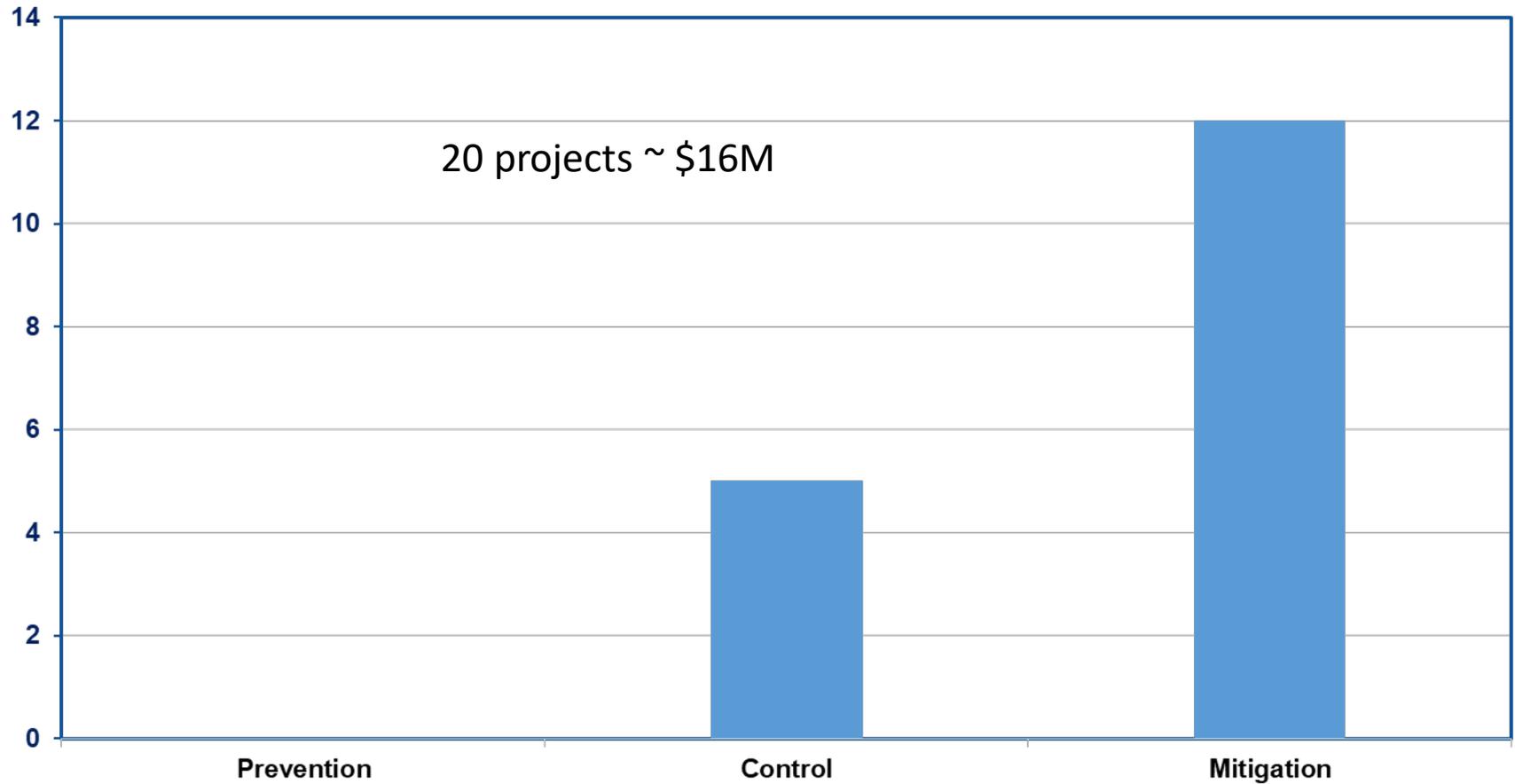


Project Requirements

- **Three phases**
 - **Development phase**--advance & evaluate unproven but promising technologies & strategies
 - **Demonstration phase**--test, validate & evaluate new technologies in the field
 - **Technology/Information Transfer phase**—transition technologies and strategies to end-user application
- **Must have Transition Advisory Committee (TAC)**
- **National Environmental Policy Act (NEPA)**
 - “socially and environmentally acceptable methods”
 - **Programmatic Environmental Analysis** – defines acceptable methods



PCMHAB Projects Funded



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HAB Control Technologies Incubator

- **What**

- National level program to accelerate development and application of HAB control technologies
- All NOAA regions/all species

- **Why**

- PCMHAB process is not conducive to quick assessment of new/unproven control ideas or implementation of proven ones.

- **How**

- Solicit proposals for quick studies on novel or unproven control ideas to determine their potential
 - Effectiveness, Feasibility, Scalability
- Create a clearinghouse of regulatory requirements and proven methodologies.



General Concept of a HCTI

- **Structure of the Incubator**
 - **Administration**
 - Director, Project Manager, admin support, etc.
 - Executive Board
 - **Science**
 - Research Support
 - Clearinghouse
- **Research Support**
 - **Small, short-term sub-awards**
 - e.g., ≤ \$250K, 6-12 months
 - **Extramural**
- **Clearinghouse**
 - **Internal effort (but could be contracted)**
 - **Public website**



Award Information

- **Funding = \$1.5M in FY 22 (pending appropriations)**
- **1 Award (Cooperative Agreement)**
- **\$1.5M per year**
- **Total of \$7.5M**
- **Renewable for another 5 Years/\$7.5M**
- **Total of \$15M**



Eligibility

- **Non-federal partner institutions of NOAA approved Cooperative Ecosystem Studies Unit (CESU) .**
 - 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.
- **Lead PIs must be employees of the eligible NOAA approved CESU institution.**
 - Applications must be submitted through that entity; and should comply with their institutional requirements for application submission.
 - Subaward institutions do not have to be members of an eligible NOAA approved CESU, but they must adhere to the relevant CESU guidelines and use the established CESU overhead rate.



Letter of Intent

1. Title Page (one page)

- a. Title
- b. CESU Name
- c. Lead [for development of Statement of Work (SOW); also primary contact]
 - i. Title / Position
 - ii. Affiliation
 - iii. Telephone number
 - iv. Email address
- d. Additional SOW Team Members [any other partners that will participate in the development of the full application]
 - Name, affiliation, telephone, email address, nature of contribution (i.e, expertise related to harmful algal blooms)

2. Narrative (not to exceed 4 pages)



Letter of Intent

- **Narrative (not to exceed 4 pages)**
 - **Demonstrate capability to implement HCTI as a national level program**
 - **Clear, but concise, description of CESU assets with the expertise (internal or collaborative) to implement an entity that can solicit, evaluate and provide financial support to projects related to methodologies to control HABs.**
 - **Expertise to evaluate the feasibility and scalability of the control methodologies and assess the social and economic impacts (costs v. benefits) of the use of such technologies to manage and protect coastal resources from the impacts of HABs.**
 - **Provide reference web links for the key assets listed (i.e., CVs, related project pages, etc.)**

LOIs must be submitted to nccos.grant.awards@noaa.gov
by 11:59 pm Eastern Time on October 15, 2021

Emails to encourage or discourage a full application
will be sent approx. 2 weeks after the LOI deadline



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Full Proposal

1. SF-424
2. Summary Title Page
3. Abstract
4. Project Description
 - a. Project Goals
 - b. Business Plan
 - c. Research Plan
 - d. Data Management Plan
 - e. Statement of Diversity and Inclusion
5. References
6. Milestone Chart
7. Biographical Sketch
8. Current & Pending Support
9. Permits
10. Accomplishments from Prior Federal Support
11. Budget Narrative
12. CD-511
13. SF-424B
14. SF-424A
15. Alphabetized Collaborator List

Full proposals must be submitted to [grants.gov](https://www.grants.gov) by 11:59 pm Eastern Time on January 27, 2022



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Evaluation Criteria

1. Importance and/or relevance and applicability to program priorities (**30%**)
2. Technical/scientific merit (**35%**)
3. Overall qualifications of applicants (**15%**)
 - a. Capability of the investigator and collaborators to complete the proposed work (**10%**)
 - b. Statement of Diversity and Inclusion (**5%**)
4. Project costs (**10%**)
5. Outreach and education (**10%**)



Anticipated Questions

- **Can the Incubator PI(s) apply for a sub-award?**
 - No
- **Can a unaffiliated researcher from the Incubator institution(s) apply for a sub-award?**
 - Yes
- **Is the competition for sub-awards to be a one-time annual call?**
 - Yes. After the call, selected proposals will be collated into the Incubator Annual Research Plan for prior approval by NOAA as an Action Award Request through Grants Online.



Anticipated Questions

- **How many sub-awards can be funded in a given year?**
 - The number sub-awards in a given year will be determined by the annual funding level and amount requested in the selected sub-awards. Unused funds in a given year can be rolled over into the next year competition.
- **Can a sub-award be renewed?**
 - Possibly. The process can be set up so that ideas can be assessed in stages with future funding dependent on successful completion of each stage. However, we expect that the total amount would still be \leq \$250K.
- **Do sub-awards have to adhere to the CESU Terms & Conditions?**
 - Yes. Sub-awards need to adhere to the same terms and conditions as the Incubator, including the 17.5% IDC rate.



Final Advice

- Read the NOFO, *read the NOFO*, read the NOFO!
- Submit the LOI by email by the deadline: **Oct 15, 2021**
- Call the Program Managers or the Grants Manager if you have any questions, especially on:
 - Program Goals
 - Preparing Business and Research Plan
 - Eligibility of Applicant or Institution
 - Preparing the Budget, Budget Narrative or any other federal forms.
- Submit the proposal through Grants online **BEFORE** the deadline: **Jan 27, 2022**



Questions

- **NOFO#: [NOAA-NOS-NCCOS-2022-2007023](#)**
- **Letters of Intent due 11:59 p.m. Eastern Time on October 15, 2021**
 - Send to nccos.grant.awards@noaa.gov
 - Responses by approximately October 29, 2021
- **Full Proposals due 11:59 p.m. Eastern Time on January 27, 2022**
 - Submit on grants.gov
- **Forms & example application package:**
 - <https://coastalscience.noaa.gov/about/funding-opportunities/application-forms/>
- **Useful links:**
 - For CESU partners information: <http://www.cesu.psu.edu/>
 - National HAB listserve: <http://mailman.whoi.edu/mailman/listinfo/us-hab>
- **Send additional questions to:**
 - Felix Martinez (Program Manager) at felix.martinez@noaa.gov
 - Jennifer Hinden (Grants Administrator) at Jennifer.hinden@noaa.gov

