Agenda (in EDT)

2:45 Room Opens

2:50 WebEx Tutorial

3:00 Welcome and Updates

3:15 Building the Network

4:00 CS Program Platform

4:30 Breakout Groups

(1) Data Management
(2) Building Federal Partnerships
(3) How to Best Share CS Stories

4:50 Next Steps Discussion

5:00 Adjourn

WELCOME

Hello all! Please enter a greeting to the chat box that includes your name and affiliation so that we can introduce ourselves.

Sea Grant
Community Science
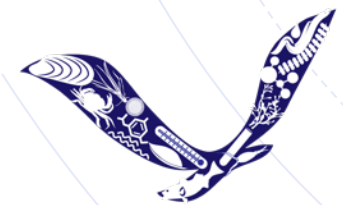
CS Network Accomplishments

- Compiled program inventory & success stories
- CS Network Listserv
- Webinar with National WQ Monitoring Council
- CS Session & Meeting at SGW
- CS Session & Meeting at CSA
- Collab with NOAA CS CoP
- Receipt of Special Projects $
- Launch of SG CS website
- Vision & Liaison Proposals

Sea Grant
Community Science
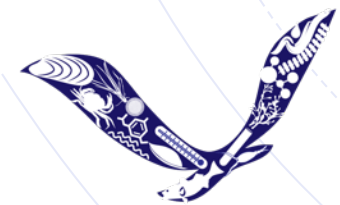
Break-out Groups:
(1) Data Management
Alyson Eberhardt (NHSC)
(2) Building Federal Partnerships
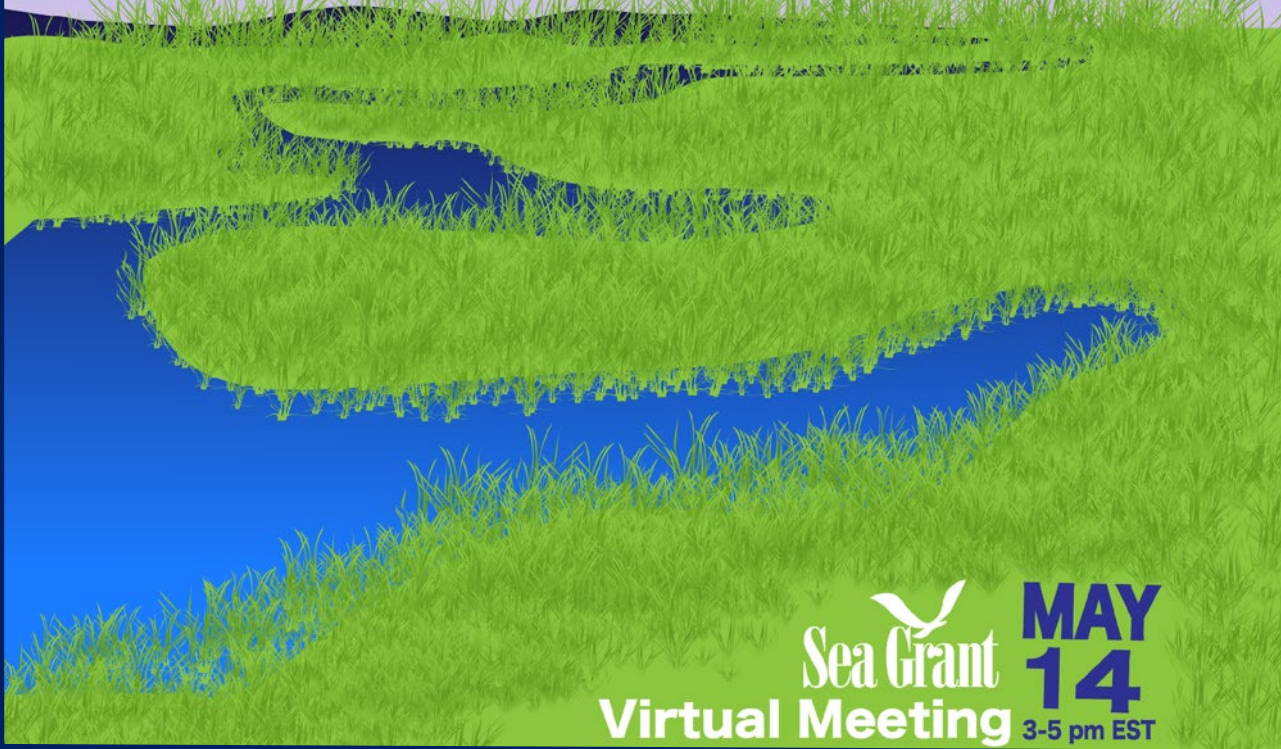### John McLaughlin and Laura Oremland (NOAA)
(3) How to Best Share CS Stories
Dani DiIullo (LASG)

Next Steps Discussion

- Updates on Proposals
- Plans for CS Network Meeting

Feel free to follow up with any of the presenters and thank you for joining!

Building the Network:
Past, Present and Future

| Name	Sea Grant Program	Position	Email
Network Vision Workshop Leads			
Kristen Grant	Maine	Marine Extension Associate	kngrant@maine.edu
Monique Myers	California	Coastal Specialist	moniquemyers@gmail.com
Sea Grant Workshop Participants			
Jeff Adams	Washington	Marine Ecologist	jaws@uw.edu
Marissa Bills	California	Research Assistant	mabills@ucsd.edu
Linda Chilton	USC	Education Program Manager	lchilton@usc.edu
Carrie Culver	California	Aquatic Resources Specialist	ccu...
Dani Dilullo	Louisiana	Communications Coordinator	ddi...
Alyson Eberhardt	New Hampshire	Coastal Ecosystems Specialist	aly...
David Hart	Wisconsin	Assistant Director for Extension	dha...
Aaron Howard	California	Program Manager/Lab Assistant	aar...
Marte Kitson	Minnesota	Extension Educator	mk...
Caitlin Manderville	New Hampshire	CS Outreach Coordinator	cai...
Gloria Putnam	North Carolina	Coastal Resources & Communities Specialist	glo...
Nick Sadrpour	USC	Science, Research & Policy Specialist	sad...
Amanda Sartain	Mississippi/Alabama	Extension Assistant/Marine Debris Specialist	am...
Eric Sparks	Mississippi/Alabama	Coastal Ecology Specialist	eric...
Kris Stepenuck	Lake Champlain	Extension Program Leader	kst...
Other Agency Participants			
Laura Oremland	NOAA	CS Coordinator	lau...
Bruce Richmond	USGS	Research Geologist	bri...
Julie Vastine	ALLARM	Executive Director	vastine@dickinson.edu
Alison Young	California Academy of Sciences	CS Manager	ayoung@calacademy.org

SG CS VISION WORKSHOP
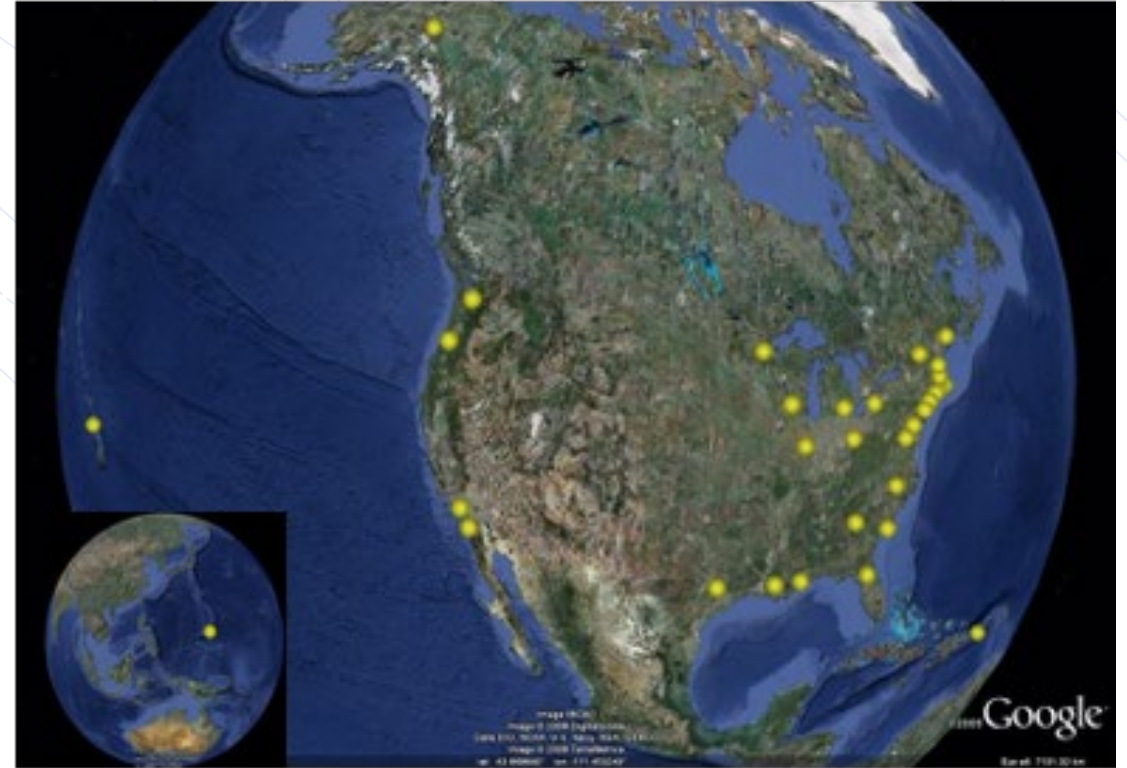
SANTA BARBARA, CA
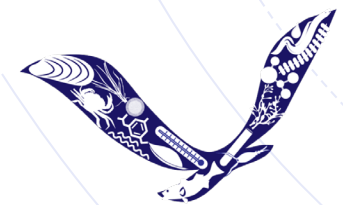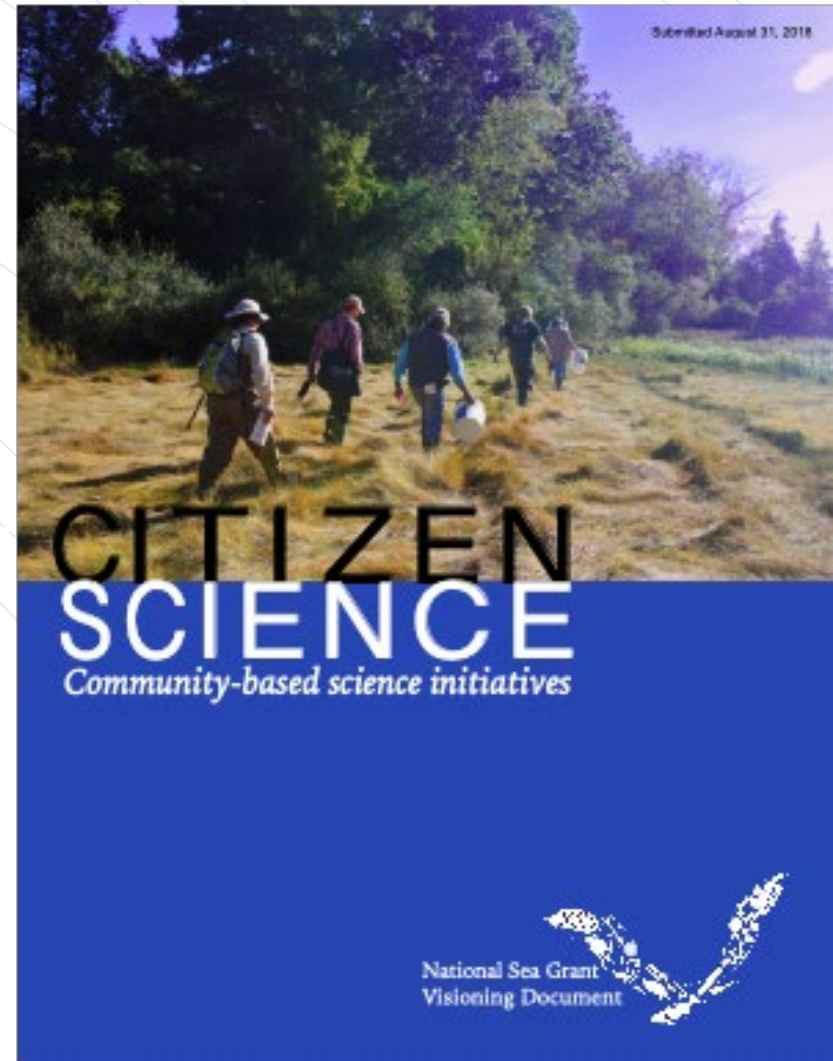MARCH 2018

Sea Grant
Community Science

Sea Grant Community Science
a national role

- ~86 CS programs!

- Programs coast-wide

- Non-advocacy, place-based, research-based approach

- We have **a lot** of CS expertise and experience...and there's more!
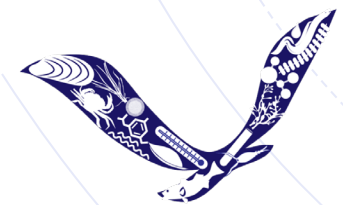
SG CS VISION REPORT
AUGUST 2018

TO DO:

*Network and partnership building

*Collaboration between CS programs

*Inventory programs

*Engage diverse groups

*Work with SG-funded researchers

*Trainings

CITIZEN SCIENCE
Community-based science initiatives

National Sea Grant Visioning Document

Sea Grant
Community Science

The Future:
Build/Coordinate/Network SG CS Future:

Diversity Equity and Inclusion -Proposing to strengthen DEI in SG CS

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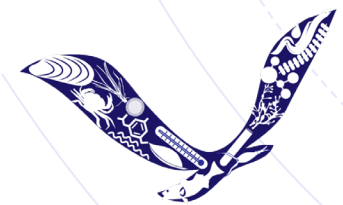
The Future:
Build/Coordinate/Network SG CS

Collaborative/Cooperative Fisheries – SG travel funds obtained to help expand our CS network

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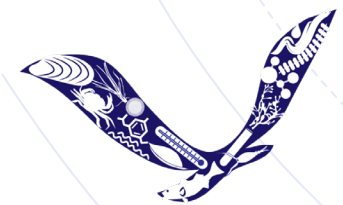
The Future:
Planned Federal Liaison Proposal

Potential Partners:
NOAA and EPA

Potential Products:
Trainings, Data Strategies, Greater Cohesion across networks and agencies.

LOI Deadline: June 25

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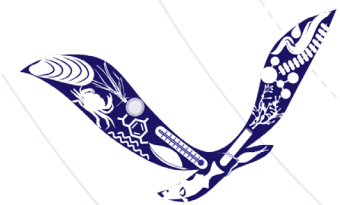
Current Projects:
CS Website and Publication/Survey

- We want to include all SG CS programs – please help us!

- Do you want to be involved in writing the SG CS publication for *Citizen Science Theory and Practice?*

Contact: Kris Stepenuck (LCSG) kstepenu@uvm.edu or

Monique Myers (CASG) mrmyers@ucsd.edu
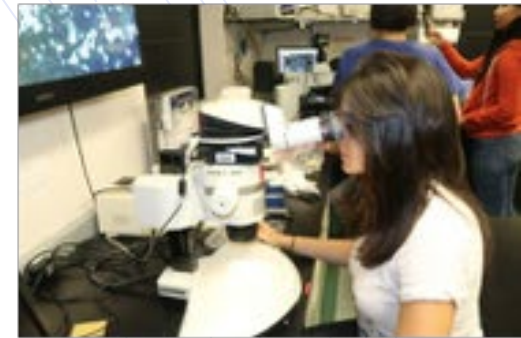
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Report from the
NOAA Citizen Science Virtual Workshop

John McLaughlin, NOAA Office of Education

Laura Oremland, NOAA Fisheries Office of Science and Technology

May 14, 2020

Citizen Science Communities -JM
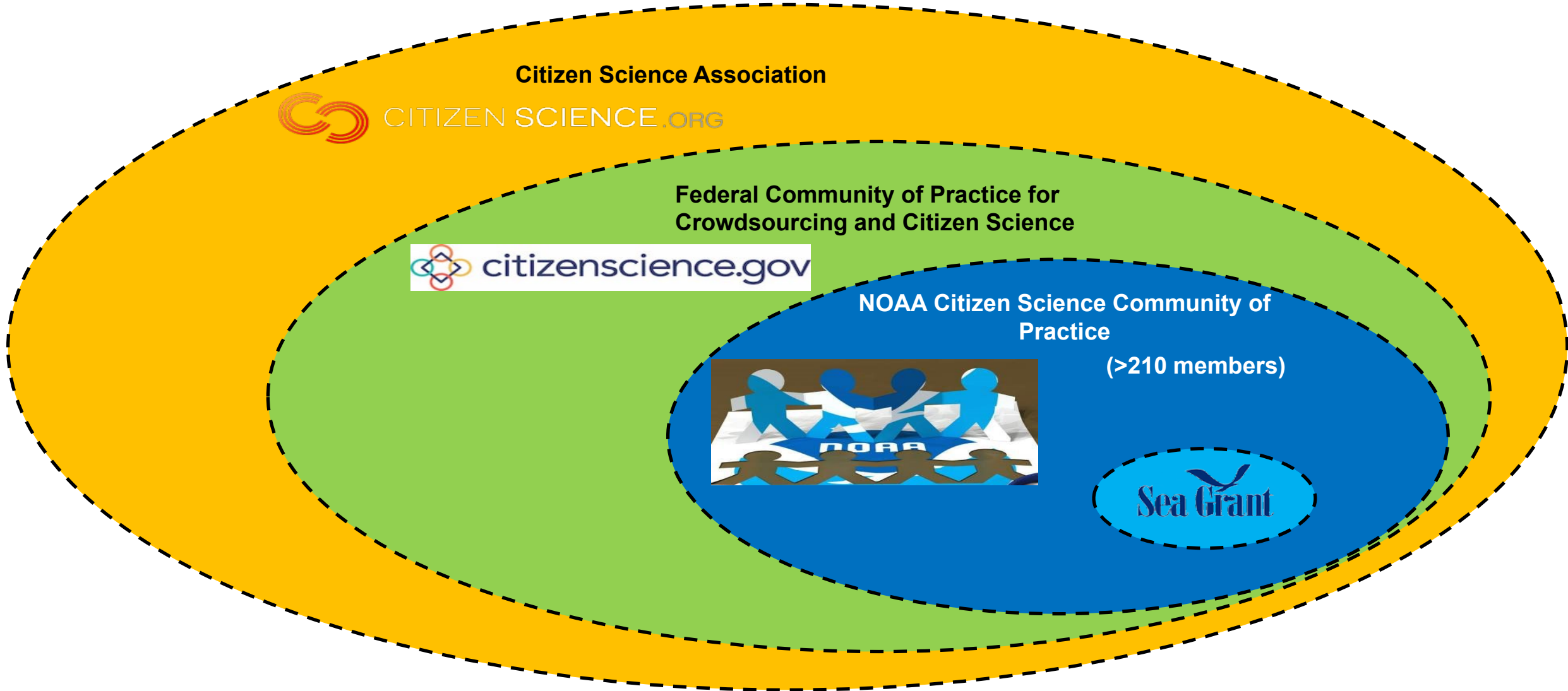
NOAA Projects

- **Non-Comprehensive List**: We have identified over 140 projects throughout the agency

    68 are from Sea Grant!

- **CitizenScience.gov Catalog**: 52 projects that NOAA supports reported
    - Report yours please!

- ***Implementation of Federal Prize and Citizen Science Authority: Fiscal Years 2017-18* report to Congress:** 11 of 86 projects (13%) from NOAA

- **Takeaway:** We have a rich, diverse set of projects

Science and Technology Focus Area

5
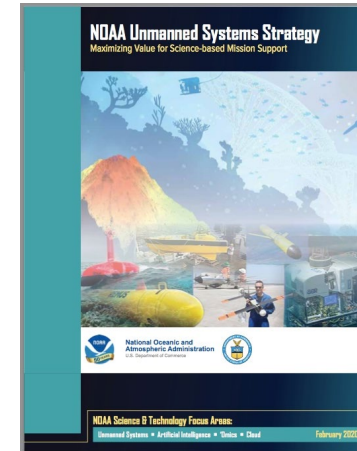
April 2020 Workshop Objectives

1) build stronger relationships among community members;

2) exchange best practices for use of citizen science and crowdsourcing;

3) discuss and document needs of NOAA staff using citizen science;

4) review best practices regarding citizen science data quality; and

5) inform plans to advance appropriate use of citizen science within the agency.

RDML Gallaudet (NOAA)

"Leading Innovation through Citizen Science"

Marc Kuchner (NASA)

"Identifying "Super Users" through Citizen Science"

Louisa Koch (NOAA)

"Educational Impact of Citizen Science"
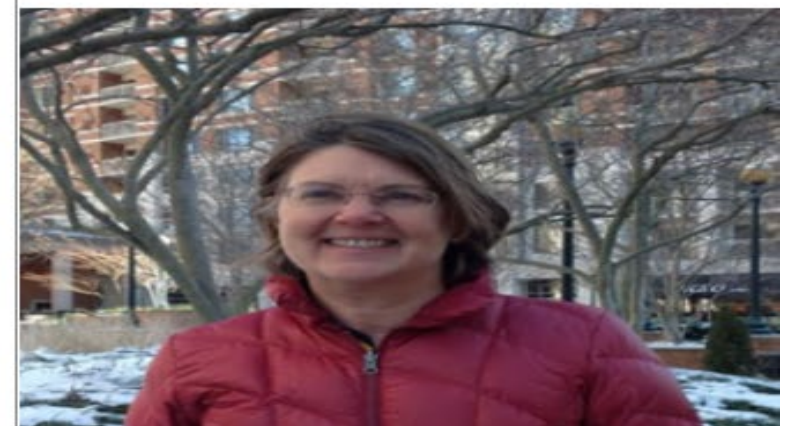
Workshop Participation

3 Day Workshop;   2 hours/day

> 100 participants across NOAA

8 Regional Sea Grant Participants

7 Sea Grant Fellows

NOAA Citizen Science Strategy

General agreement on the five draft goals:

1. *Coordinate and Support Citizen Science Efforts*
2. *Expand Integration into Agency Operations*
3. *Promote Data Quality*
4. *Strengthen Partnerships*
5. *Increase Workforce Proficiency*

Workshop Messages We Heard

- *General*
  - Build metrics
  - Ensure appropriate data quality
  - Determine data management best practices
  - Partner education w/ research
- *On Citizen Science Strategy*
  - Incorporate Diversity and inclusion
  - Better connect with tribal groups
  - Only apply citizen science when appropriate
  - Address liability

Workshop Feedback and Next Steps

- Majority of feedback stated the workshop was useful and relevant
- Constructive feedback
  - Some participants would have liked it to be more interactive with additional time to network
- Workshop report in development
- Still plan to hold in-person meeting (dates TBD)

Partner Opportunities / How to connect

- **Join the NOAA Citizen Science CoP**
- **Include your projects: NOAA Inventory, Citizen Science.gov**
- **Email us directly**

Thoughts and Questions

12

Cooperative/Collaborative Fisheries Research and Community Science:

Are they the same?

Louisiana Sea Grant

New Hampshire Sea Grant

Sea Grant
Community Science

Sea Grant Fisheries Research

Biological/Ecological Research & Modeling

Angel shark, sea urchin, eel, grouper, blue crab

Habitat preferences of juvenile nearshore finfish (CA & OR)

California halibut trawl grounds (SB 1459)

Human Dimensions

Management Strategies: ITQs, restricted access

Community and infrastructure needs

Socioeconomics

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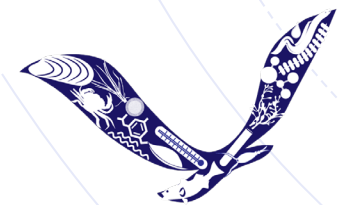
Sea Grant Fisheries Research

Most Recently

Taking collaborative fisheries research to the next level: Long-term integration into the management process

California Collaborative Fisheries Research Program (CCFRP)

Evaluating MPAs – application to fish stocks

Collaborative At-Sea Sampling Program (CASP)
Collaborative Socioeconomic Synthesis & Analysis (CSSA)

Building essential fisheries information for management

Sea Grant
Community Science
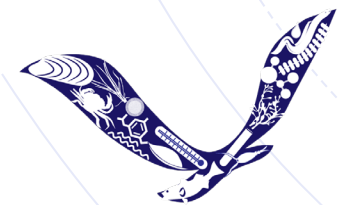
Sea Grant Fisheries Research

Collaborative Research Programs (Local, State, Regional)

California
Fisheries Enhancement Funds (1987)
Channel Islands Marine Sanctuary Foundation
Collaborative Research Program (2006)
Collaborative Fisheries Research – West (2012)

New England
Southern New England Collaborative Research Initiative (2004)

South Atlantic
South Atlantic Fisheries Management Council - CS program (2016)

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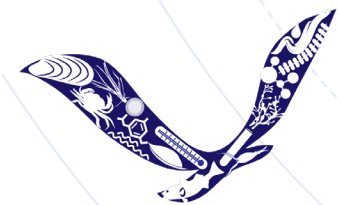
Fisheries Research Continuum

Cooperative and Collaborative

Project Objectives	Single		Multiple
Partners Number/Diversity	Few/ Little		Many/ Great
Partner Relationship/ Responsibilities (Compensation)	Assist (None)		Fully Engaged (Full)
Spatial Coverage	Confined		Broad
Project Duration	Short Term		Long Term
Integration with Management	Some		Full
Funding	Individual Grants		Dedicated Funds

Culver & Pomeroy. 2019. AFS Presentation

Sea Grant
Community Science

Models of Community (Citizen) Science

Limited Role for Public Involvement

Multiple Opportunities for Public Involvement

Contributory
» Designed by scientists
» Public contributes data

Collaborative
» Designed by scientists
» Public contributes data, refines project design, analyzes data, and/or shares findings

Co-created
» Designed by public with scientific support
» Public involved in most or all steps of scientific process

Modified from Julie Vastine
Sea Grant Network Citizen Science Visioning Plan

Sea Grant
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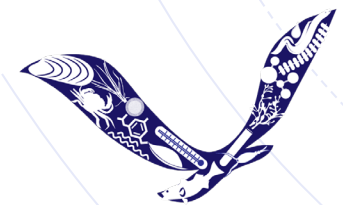
Future Sea Grant CS Network

Clarify what CS is within Sea Grant

Identify where fisheries research intersects with CS

Build CS programs that are meaningful to management and consider DEI and TLK (using fisheries as test case)

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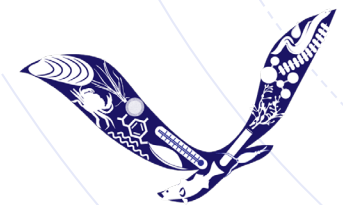
Creating a SGCS Online Presence: Draft and Feedback Solicitation

Home/Landing Page

First Poll: Taglines

1. Real Science. Real Discovery. Coast to Coast.
2. Connecting the Public to Scientific Research.
3. Place-based, community-supported meaningful research.
4. Inclusive science experiences for all.
5. Connecting people to the coast through research.
6. Science supported by America's coastal communities.

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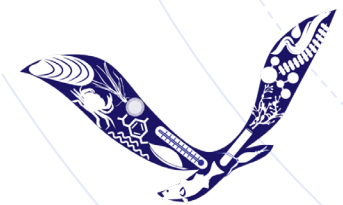
Project Map

PROGRAM LOCATIONS ▾

- Alabama
- Alaska
- California
- Connecticut
- Delaware
- Florida
- Georgia
- University of Guam
- Hawai'i
- Illinois-Indiana
- Lake Champlain
- Law Center
- Louisiana
- Maine
- Maryland
- Massachusetts Institute of Technology
- Michigan
- Minnesota
- Mississippi
- New Hampshire
- New Jersey
- New York
- North Carolina
- Ohio
- Oregon
- Pennsylvania
- Puerto Rico
- Rhode Island

Goal: Each program will have their own community science page with information about projects and how to get involved.

Audience: People looking to connect to community science projects

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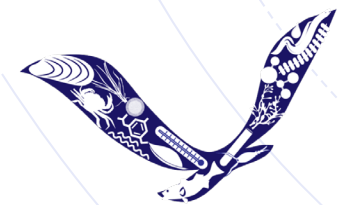
Individual Sea Grant Program Input

To develop this content so that it reflects your program and region we need your help. Please supply the following:
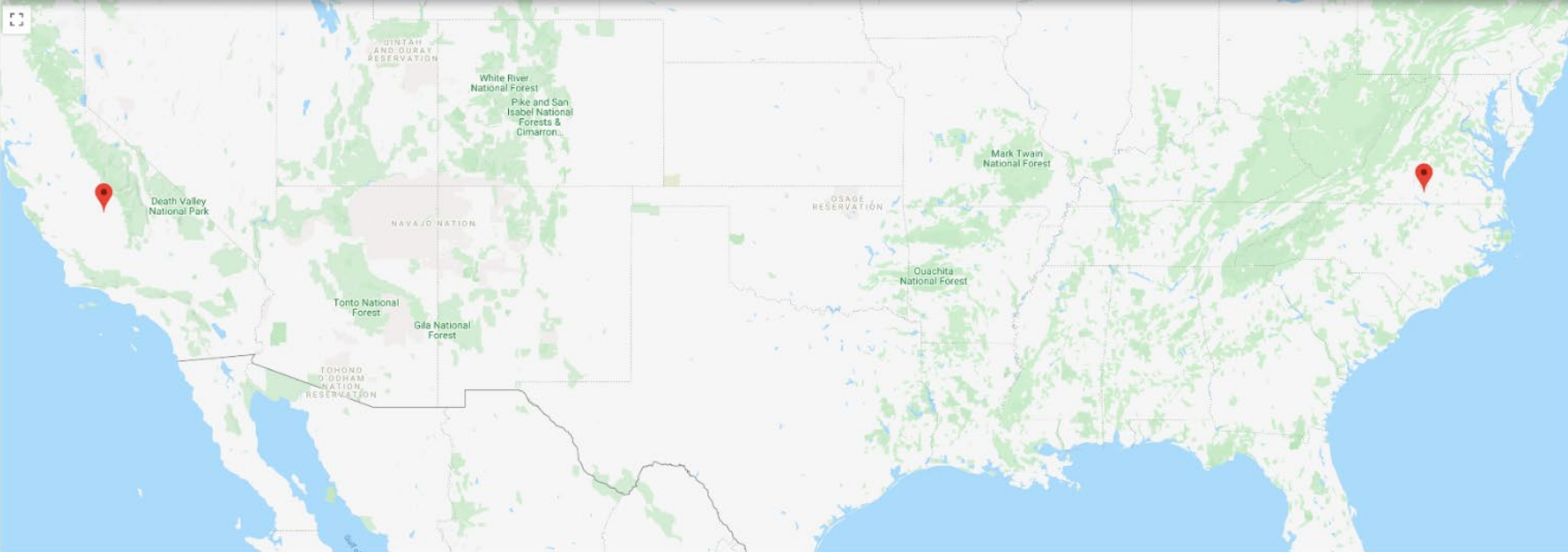
1. Photos! – high resolution (at least 2 MB, more preferred)
2. Program summary highlighting existing projects
   1-2 paragraph summary. Links to project pages (if available)
3. Contact person for your program
   Prefer one person to act as conduit for interest

Send info to: ddiiullo@lsu.edu or the SG CS list-serv.
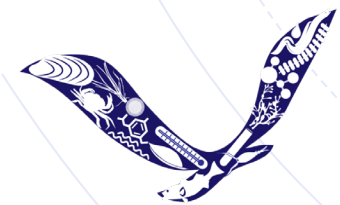
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SG CS Project Maps

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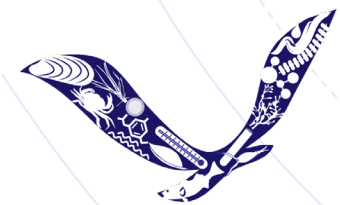
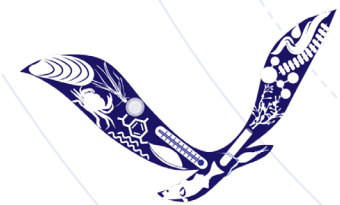# Categories – Poll 1: Which Categories Apply to Your Program

1. Animal Monitoring
2. BioBlitzes/iNaturalist
3. Climate/Weather
4. Collaborative Fisheries
5. Computer-Based
6. Microplastics/Debris
7. Plant/Seaweed Monitoring
8. Shoreline Monitoring
9. Restoration/Clean-ups
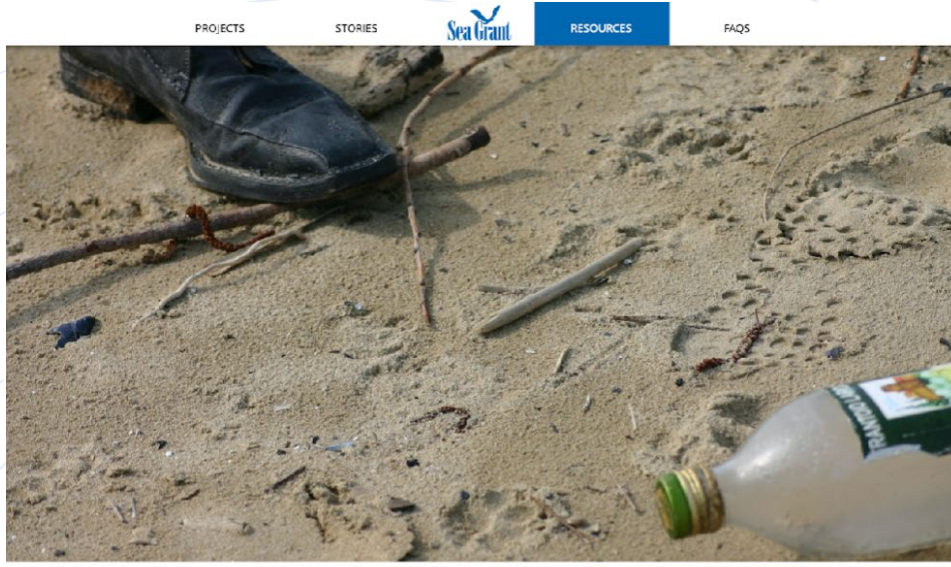10. Water Quality – Biology
11. Water Quality – Chemistry

Sea Grant
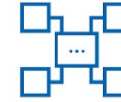Community Science
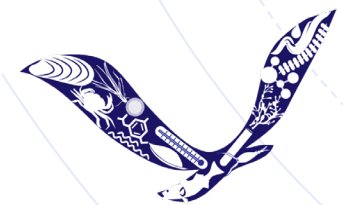
Categories - Poll 2: Which Categories Would You Remove/Edit

1. Animal Monitoring
2. BioBlitzes/iNaturalist
3. Climate/Weather
4. Collaborative Fisheries
5. Computer-Based
6. Microplastics/Debris
7. Plant/Seaweed Monitoring
8. Shoreline Monitoring
9. Restoration/Clean-ups
10. Water Quality – Biology
11. Water Quality – Chemistry

Sea Grant
Community Science
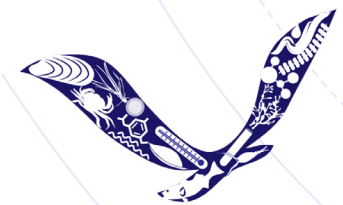
Categories - Poll/Chat: Which Category Is Missing from the List

1. Animal Monitoring
2. BioBlitzes/iNaturalist
3. Climate/Weather
4. Collaborative Fisheries
5. Computer-Based
6. Microplastics/Debris
7. Plant/Seaweed Monitoring
8. Shoreline Monitoring
9. Restoration/Clean-ups
10. Water Quality – Biology
11. Water Quality – Chemistry

Sea Grant
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Resources Page

Stories that Highlight the Collaborative Sea Grant Network

https://storymaps.arcgis.com/stories/20b380ecb1bc40c9b5663c5d9f27839b
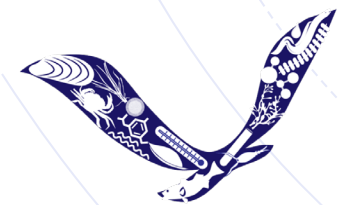
Sea Grant
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Other Ways to Build SG CS Profile – Enter in Chat

- What else should we put on the website?

- What are some stories that we could tell highlighting projects across the network?
    - Working in Collaboration
    - Working in Conjunction
    - Complementary work

- What are other tools we could use?

    Ideas can also be posted on the SG CS list-serv