USCRP BY THE NUMBERS THE FIRST DECADE

Funded Proposals

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 14 |

AWARDS ACROSS 24 STATES

All data herein updated as of May 2024

THE FIRST DECADE 516 research proposals received totaling **$150 million requested** for coastal research

The U.S. Coastal Research Program (USCRP) is a collaboration between Federal agencies, academics, & stakeholders which aims to identify research priorities, enhance funding for academic programs, foster collaborations, & promote science translation. The USCRP leads a national effort to coordinate federal activities & align resources to support academic studies addressing the growing needs of coastal communities, ultimately, fostering the nation's workforce.

The program represents a national community of researchers & practitioners with shared passions working together to identify priorities & leverage resources supporting research-to-user objectives. By facilitating partnerships, multi-agency collaborations, & leveraging limited resources, the USCRP increases coastal research impacts & applications, building a community of practice to address societal needs along the coast.

OUR PARTNERS

U.S. NAVAL RESEARCH LABORATORY — asbpa American Shore & Beach Preservation Association — US Army Corps of Engineers — USGS science for a changing world — BOEM Bureau of Ocean Energy Management — U.S.NRC United States Nuclear Regulatory Commission Protecting People and the Environment

Office of Naval Research Science & Technology ONR — Coastal States Organization CSO — Department of Homeland Security FEMA — Department of Transportation United States of America — U.S. Fish & Wildlife Service — NASA — National Park Service — NOAA U.S. Department of Commerce — Department of Energy United States of America

THE FIRST DECADE OF
FUNDING 2016-2023

FUNDING

7

Funding call opportunities
- Dunes on Developed Coasts
- Storm Processes & Impacts
- Federal Stakeholder Priorities
- Federal Priorities in Long-Term Processes & Estuarine Ecosystems
- Human & Ecosystem Health
- Gaps identified by past projects & Sea Grant partnerships
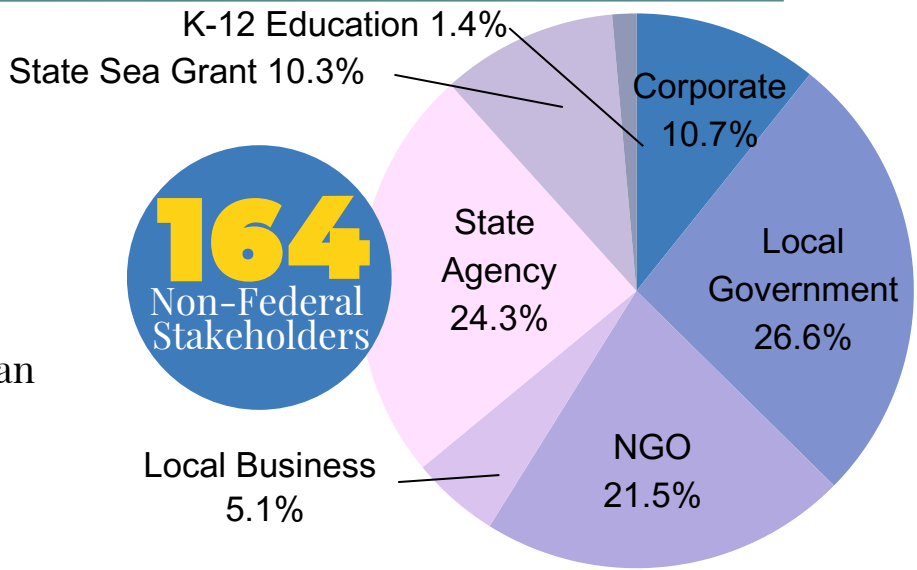- Federal priorities in sediment transport

77 RESEARCH PROPOSALS FUNDED

15% acceptance

$126.6 Million Not Funded

$23.5 Million Funded
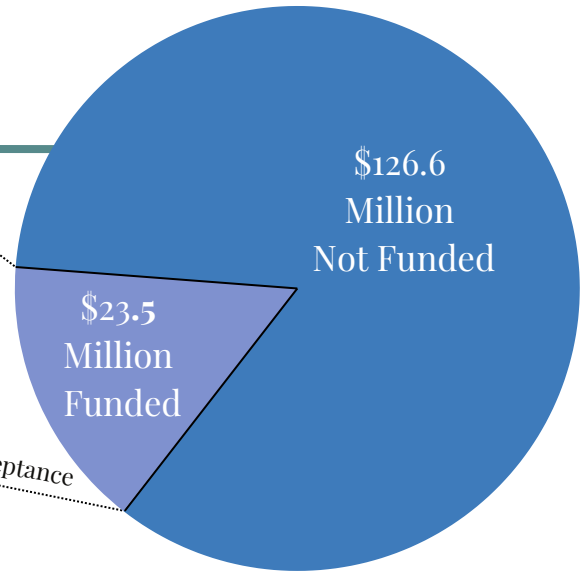
FEDERAL AGENCIES & STAKEHOLDERS

20

Federal Agencies Engaged
- BOEM
- DOE
- DOS
- DOT
- EPA
- FEMA
- NASA
- NAVY
- NOAA
- NPS
- NRC
- NRL
- ONR
- USACE
- USGS
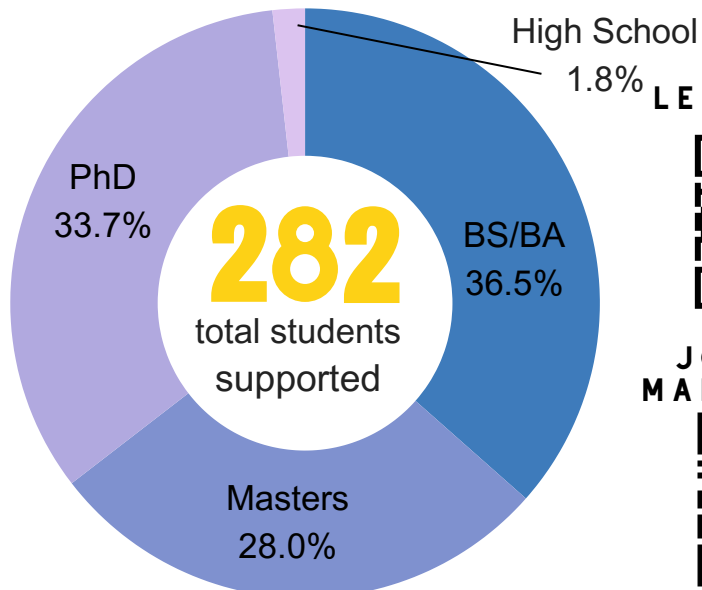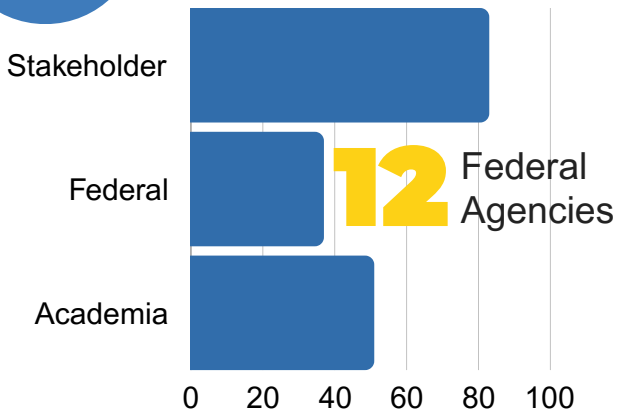- NSF
- Smithsonian
- USDA
- USFWS
- USGOV

164 Non-Federal Stakeholders

K-12 Education 1.4%
State Sea Grant 10.3%
Corporate 10.7%
Local Government 26.6%
State Agency 24.3%
NGO 21.5%
Local Business 5.1%

STUDENTS

195

Matriculated to date:
- Where are they now?

Stakeholder

Federal **12 Federal Agencies**

Academia

0   20   40   60   80   100

282 total students supported

PhD 33.7%
High School 1.8%
BS/BA 36.5%
Masters 28.0%

LEARN MORE

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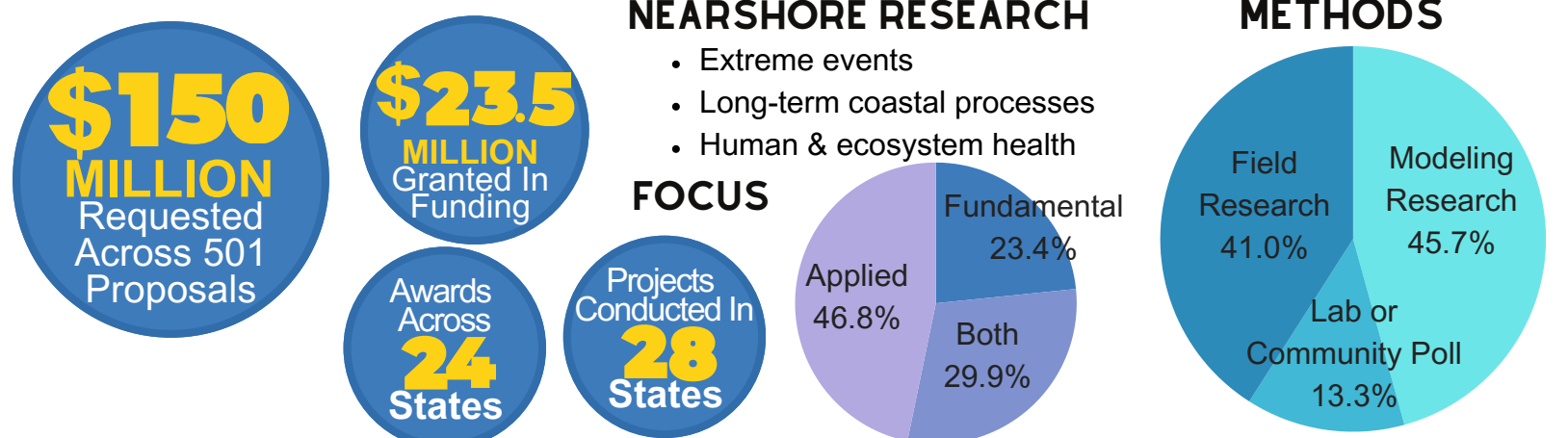
USCRP PROGRAM IMPACT
BY THE NUMBERS: THE FIRST DECADE

The US Coastal Research Program (USCRP) leads a national effort to coordinate federal coastal activities & align resources to support coastal-related academic studies addressing the growing needs of coastal communities, ultimately, fostering the nation's coastal workforce. USCRP explores fundamental, as well as applied, science and engineering questions.
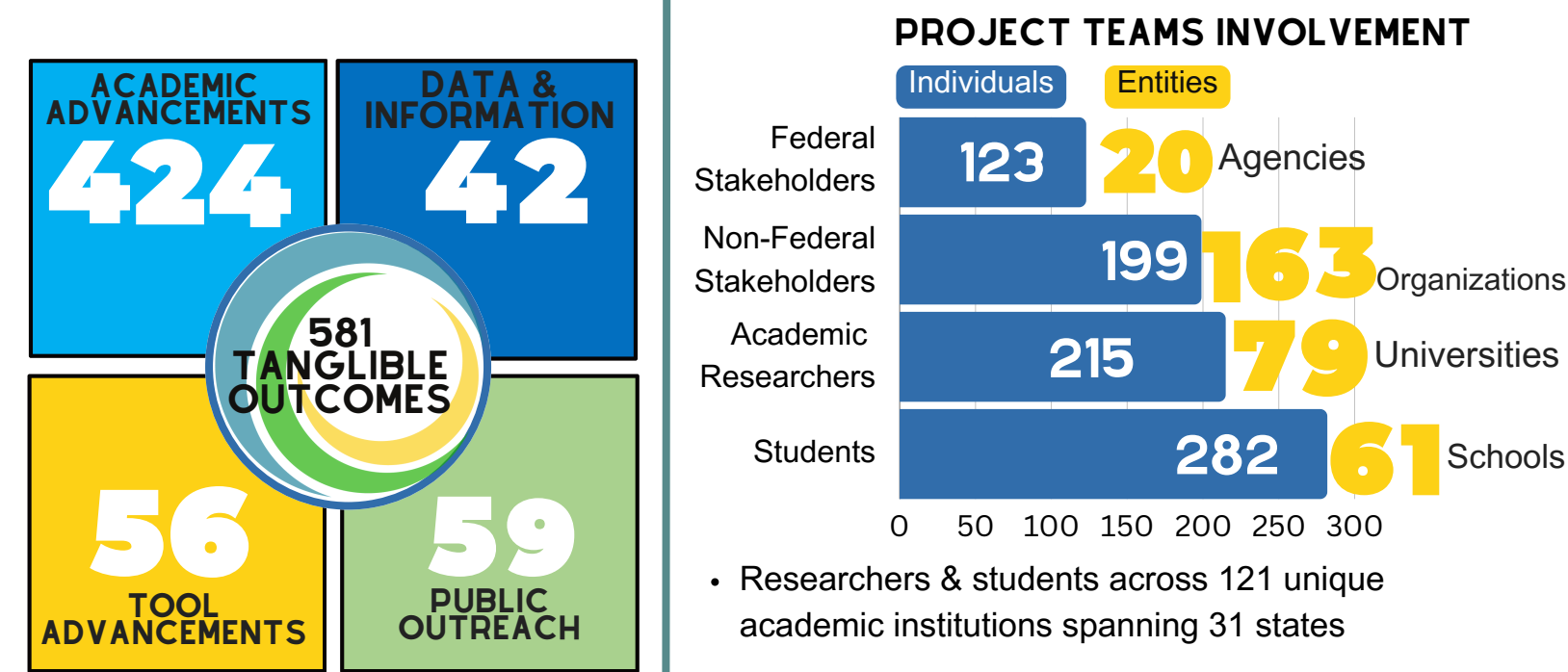
From 2016-2023, **USCRP has funded 77 projects** across seven funding calls. Research teams are comprised of academic researchers, students, Federal partners, & non-federal stakeholders. USCRP defines outcomes as tangible products that can be found & used as resources within four categories: academic advancements, data & information, tool advancements, and public outreach.

All data herein updated as of May 2024

SUPPORTING COASTAL NEEDS

$150 MILLION Requested Across 501 Proposals

$23.5 MILLION Granted In Funding

Awards Across **24** States

Projects Conducted In **28** States

NEARSHORE RESEARCH
- Extreme events
- Long-term coastal processes
- Human & ecosystem health

FOCUS
- Fundamental 23.4%
- Applied 46.8%
- Both 29.9%

METHODS
- Field Research 41.0%
- Modeling Research 45.7%
- Lab or Community Poll 13.3%

PROJECT PRODUCTS

ACADEMIC ADVANCEMENTS 424

DATA & INFORMATION 42

581 TANGIBLE OUTCOMES

56 TOOL ADVANCEMENTS

59 PUBLIC OUTREACH

FOSTERING COLLABORATION

PROJECT TEAMS INVOLVEMENT

Individuals | Entities

	Individuals	Entities	
Federal Stakeholders	123	20	Agencies
Non-Federal Stakeholders	199	163	Organizations
Academic Researchers	215	79	Universities
Students	282	61	Schools

Scale: 0 50 100 150 200 250 300

- Researchers & students across 121 unique academic institutions spanning 31 states

USCRP OUTCOMES
BY THE NUMBERS: THE FIRST DECADE

The US Coastal Research Program (USCRP) leads a national effort to coordinate federal coastal activities & align resources to support coastal-related academic studies addressing the growing needs of coastal communities, ultimately, fostering the nation's coastal workforce. USCRP provides scientific knowledge and useful products for coastal communities and the nation.

From 2016-2023, **USCRP has funded 77 projects** across seven funding calls. Research teams are comprised of academic researchers, students, Federal partners, & non-federal stakeholders. USCRP defines outcomes as tangible products that can be found & used as resources within four categories: academic advancements, data & information, tool advancements, and public outreach.

All data herein updated as of May 2024

581 TANGIBLE OUTCOMES

ACADEMIC ADVANCEMENTS: 424

PEER-REVIEWED PUBLICATIONS: 135

TECHNICAL PRESENTATIONS: 289

- 41 theses & dissertations across 21 universities
- 94 research articles across 47 journals
  - 8 state of science reviews

- 4 Government briefings
- 140 international meeting presentations across 29 venues
- 145 national meeting presentations across 65 venues

DATA & INFORMATION: 42

PUBLIC DATASETS: 32

REPORTS & REGULATORY: 10

*All data from USCRP funded projects can be requested from PIs. 32 datasets are already published online such that they need not be requested directly from the PI

- 4 technical reports
- 2 community reports
- 2 factsheets
- 2 regulatory documents
  - 1 Federal

TOOL ADVANCEMENTS: 56

SOFTWARE: 26

INNOVATION-TECH & OTHER: 30

- 4 software codes, apps, or GUI
- 22 new models or model capabilities developed
  - Many improvements in runtime & accuracy

- 17 new methods or metrics
- 13 new instruments
  - 7 Sensors
  - 4 climatic stations
  - 1 new lab

PUBLIC OUTREACH: 59

PUBLIC ENGAGEMENT: 46

EXTERNAL PUBLICITY: 13

- 14 workshops, focus groups, trainings, or briefings
- 8 dedicated websites
- 24 research highlights or newsletter attention

- 8 news or online articles
- 2 radio broadcasts
- 3 tv coverages

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47% OF ALL OUTCOMES HAVE STUDENT LEADS

USCRP FEDERAL PARTNERS
BY THE NUMBERS: THE FIRST DECADE

The US Coastal Research Program (USCRP) leads a national effort to coordinate federal coastal activities & align resources to support coastal-related academic studies addressing the growing needs of coastal communities, ultimately, fostering the nation's coastal workforce. USCRP works to identify societally relevant research priorities and fundamental knowledge gaps in support of federal priorities.

From 2016-2023, **USCRP has funded 77 projects** across seven funding calls. Research teams are comprised of academic researchers, students, Federal partners, & non-federal stakeholders.

All data herein updated as of May 2024

123
Unique Federal Representatives Involved In Projects

17
Federal Representatives Involved In Multiple Projects

77%
Of Projects Include At Least 1 Federal Representative

RESEARCH FOCUS
Applied 46.8%
Fundamental 23.4%
Both 29.9%

- Average of 2 unique representatives per project
- Range of 1-4 agencies involved per research team

SUPPORTING FEDERAL PRIORITIES

20
Federal **Agencies** Engaged

- BOEM
- DOE
- DOS
- DOT
- EPA
- FEMA
- NASA
- NAVY
- NOAA
- NPS
- NRC
- NRL
- ONR
- USACE
- USGS
- NSF
- Smithsonian
- USDA
- USFWS
- USGOV

PROJECTS ADDRESSING NEARSHORE PRIORITIES

Extreme events
32.2%

Long-term coastal processes
40.2%

Human & ecosystem health
27.6%
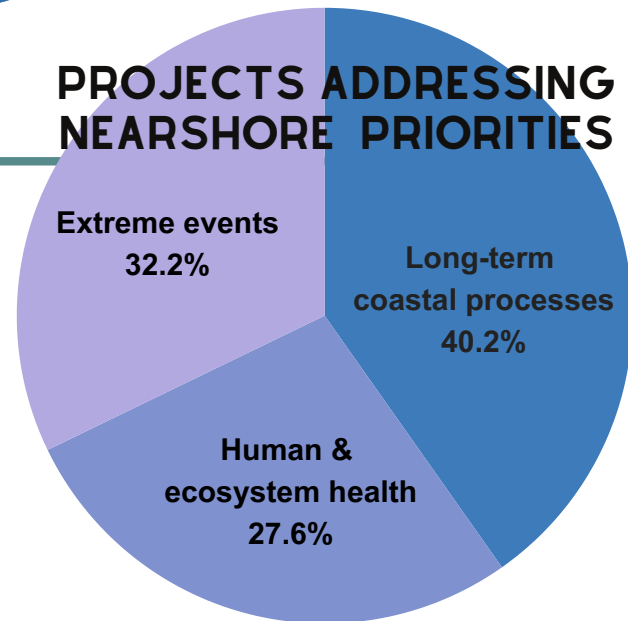
RESEARCH GENERATING USABLE PRODUCTS

New Methodologies or Metrics — 17
Some methodologies produced have been included or used in Federal materials or projects

New Instruments — 13
- Sensors
- Weather/wave stations
- Labs

New Software — 26
- Models: new & improvements ➡ improved runtime and/or accuracy
- Software, apps, & GUI

Public datasets — 32
*All data from the 77 USCRP funded projects can be requested from PIs
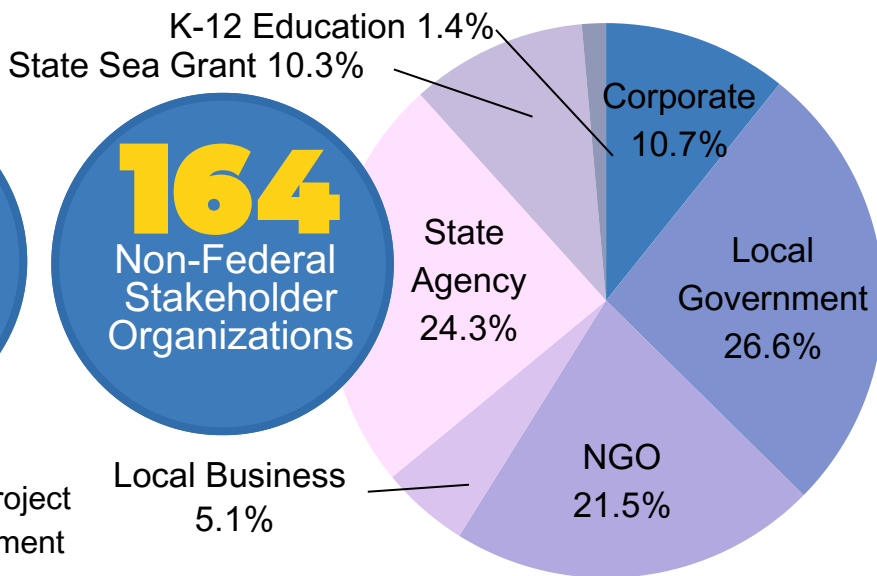
0 5 10 15 20 25 30 35

USCRP STAKEHOLDERS
BY THE NUMBERS: THE FIRST DECADE

The US Coastal Research Program (USCRP) leads a national effort to coordinate federal coastal activities & align resources to support coastal-related academic studies addressing the growing needs of coastal communities & fostering the nation's coastal workforce. USCRP translates fundamental science to outcomes that benefit users. From 2016-2023, **USCRP has funded 77 projects** across seven funding calls. Research teams are comprised of academic researchers, students, Federal partners, & non-federal stakeholders.

All data herein updated as of May 2024

50 Projects Include At Least 1 Non-Federal Stakeholder

201 Unique Individuals Engaged

164 Non-Federal Stakeholder Organizations

Average 4 unique organizations involved per project across the 50 projects with stakeholder involvement

Pie chart:
- K-12 Education 1.4%
- State Sea Grant 10.3%
- Corporate 10.7%
- Local Government 26.6%
- NGO 21.5%
- Local Business 5.1%
- State Agency 24.3%

STAKEHOLDERS Engaged In 22 States

(#) each time a unique stakeholder was engaged in a research team
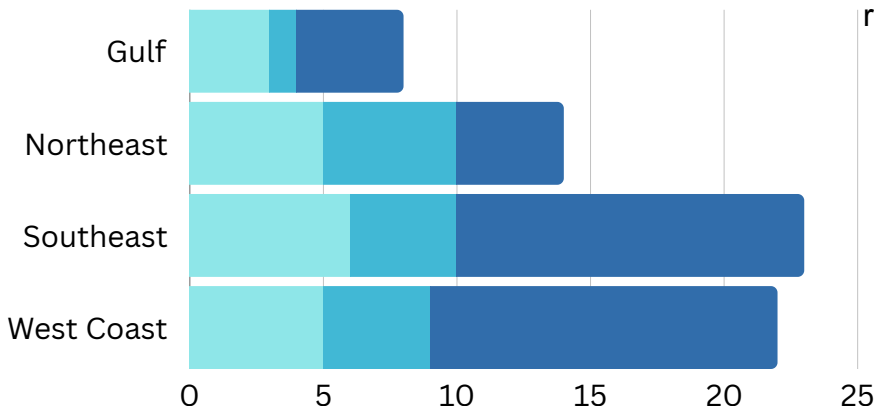
- **Gulf Coast** (22)
  - Alabama
  - Louisiana
  - Mississippi
  - Texas
- **Great Lakes** (9)
  - Michigan
  - Minnesota
  - Pennsylvania
  - Wisconsin

- **Other/Inland** (6)
  - Colorado
  - Tennessee
  - International
- **Northeast** (40)
  - Delaware
  - Maryland
  - New Jersey
  - New York
  - Virginia

- **Southeast** (91)
  - Florida
  - Georgia
  - North Carolina
  - South Carolina
- **West Coast** (37)
  - California
  - Oregon
- **Hawaii & Pacific Islands (8)**
  - Hawaii

ORGANIZATIONS BY REGION

Legend: State Agency, NGO, Local Government

(Bar chart by region: Gulf, Northeast, Southeast, West Coast; x-axis 0 to 25)

STAKEHOLDER SUPPORT

Stakeholders have provided services, staff time, funding, and more to further coastal research. In return they have received:
- Management guidelines
- Decision support
- Improved resilience
- and more (see the impacts & outcomes flyer)

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USCRP ACADEMIA
BY THE NUMBERS: THE FIRST DECADE

The US Coastal Research Program (USCRP) leads a national effort to coordinate federal coastal activities & align resources to support coastal-related academic studies addressing the growing needs of coastal communities, ultimately, fostering the nation's coastal workforce. USCRP enhances funding opportunities for academic research and fosters collaborative opportunities.

From 2016-2023, **USCRP has funded 77 projects** across seven funding calls. Research teams are comprised of academic researchers, students, Federal partners, & non-federal stakeholders.
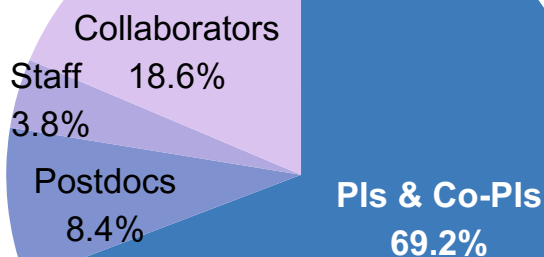
All data herein updated as of May 2024

215 Academic Researchers From **79** Institutions

$23.5 MILLION Granted In Funding

282 Students Mentored

Universities Across **27** States

*7 collaborators from international institutions

GRADUATE STUDENTS
79 Master's
96 PhD

ACADEMIC RESEARCHERS
- Collaborators 18.6%
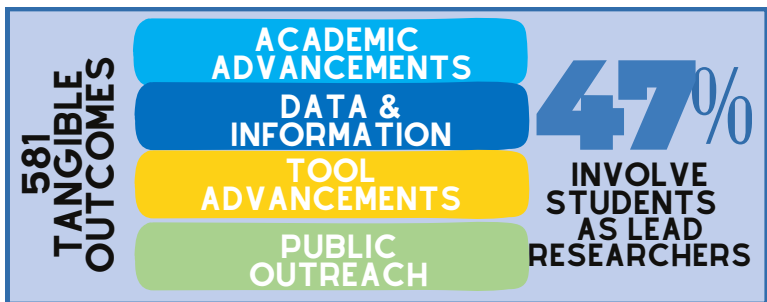- Staff 3.8%
- Postdocs 8.4%
- PIs & Co-PIs 69.2%

DISCIPLINARY DIVERSITY

- Biology 10.9%
- Chemistry 1.2%
- Economics <1%
- Engineering 37.9%
- Environmental Studies 3.5%
- Geography 2.7%
- Geosciences 10.2%
- Mathematics 2.3%
- Oceanography 16.8%
- Physical Sciences 8.2%
- Policy & Planning 5.1%
- Social Sciences 1.3%

RESEARCH FOCUS
- Fundamental 23.4%
- Applied 46.8%
- Both 29.9%

TRANSLATING SCIENCE

581 TANGIBLE OUTCOMES
- ACADEMIC ADVANCEMENTS
- DATA & INFORMATION
- TOOL ADVANCEMENTS
- PUBLIC OUTREACH

47% INVOLVE STUDENTS AS LEAD RESEARCHERS
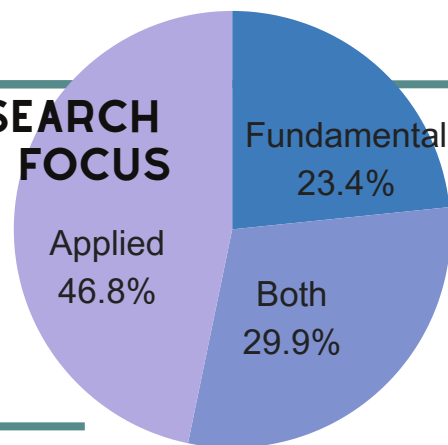
- 289 technical presentations
  - 136 international & 153 national meetings
- 41 theses & dissertations across 21 universities
- 93 research articles (47 journals, 8 state of science reviews)

METHODS
- Field Research 41.0%
- Modeling Research 45.7%
- Lab or Community Poll 13.3%
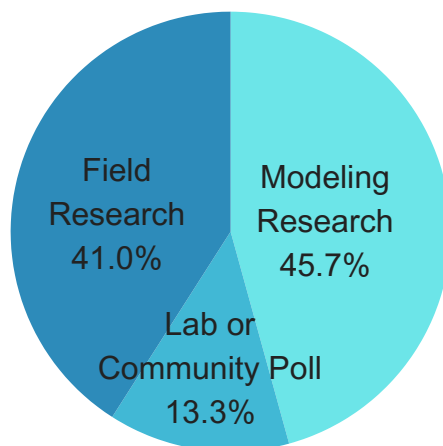
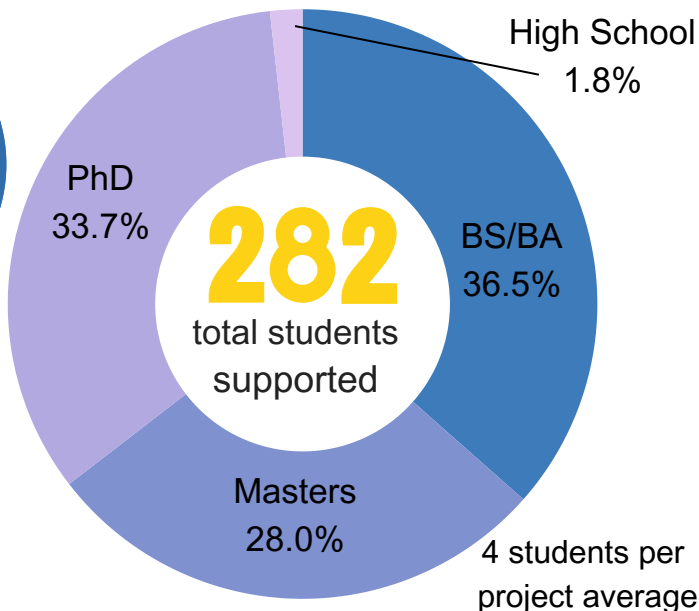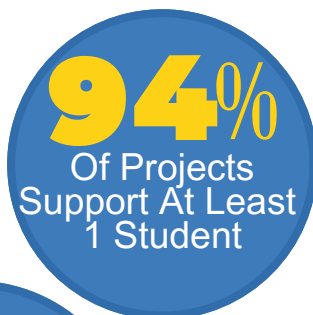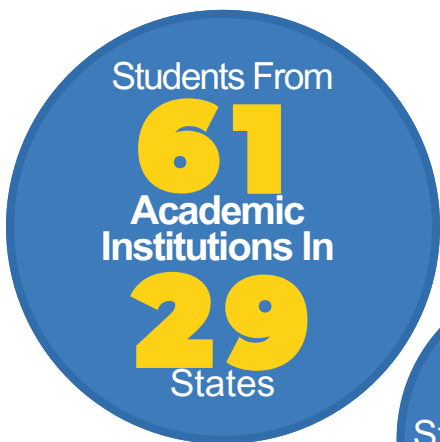**LEARN MORE**

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USCRP STUDENTS
BY THE NUMBERS: THE FIRST DECADE

The US Coastal Research Program (USCRP) leads a national effort to coordinate federal coastal activities & align resources to support coastal-related academic studies addressing the growing needs of coastal communities, ultimately, fostering the nation's coastal workforce. USCRP enhances funding opportunities for student programs building a skilled workforce.

From 2016-2023, **USCRP has funded 77 projects** across seven funding calls. Research teams are comprised of academic researchers, students, Federal partners, & non-federal stakeholders.
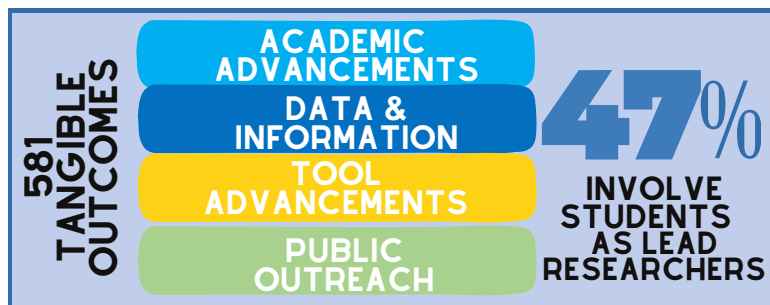
All data herein updated as of May 2024

Students From **61** Academic Institutions In **29** States

94% Of Projects Support At Least 1 Student

16 Students Involved In Multiple USCRP Awards

282 total students supported

- High School 1.8%
- BS/BA 36.5%
- Masters 28.0%
- PhD 33.7%

4 students per project average
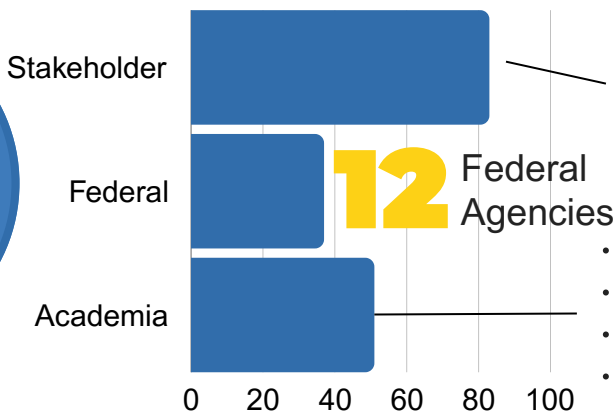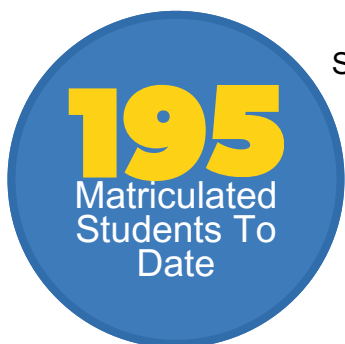
DISCIPLINARY DIVERSITY

RESEARCH DISCIPLINES

- Engineering 36.0%
- Physical Sciences 32.7%
- Biology & Life Sciences 21.1%
- Policy, Planning, & Social Sciences 4.4%
- Environmental Studies & Conservation 5.8%

581 TANGIBLE OUTCOMES

- ACADEMIC ADVANCEMENTS
- DATA & INFORMATION
- TOOL ADVANCEMENTS
- PUBLIC OUTREACH

47% INVOLVE STUDENTS AS LEAD RESEARCHERS

BUILDING OUR COASTAL WORKFORCE

WHERE ARE THEY NOW?

195 Matriculated Students To Date

Stakeholder
Federal
Academia

0 20 40 60 80 100

12 Federal Agencies

- 80.7% Corporate or local business
- 19.3% NGO, state agency. or local government

- 51.9% New Degree
- 5.0% Tenure-track/education
- 29.4% Post-Doc
- 13.7% Researcher

*24 student employment statuses unknown