NOAA Education
Briefing for National Association of Marine Labs
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2019 NOAA-wide Education Accomplishments

- **4,060 postsecondary students** were trained through NOAA-funded higher education programs

- **861 postsecondary degrees** were awarded to NOAA-supported students in higher education programs

- **35,000 educators** participated in NOAA-supported professional development programs

- **489,000 P-12 students** participated in NOAA-supported formal education programs
2019 NOAA-wide Education Accomplishments

- **61.4 million people** visited informal education institutions hosting NOAA-supported exhibits or programs.

- **483 institutions** increased educational capacity through NOAA-funded centers, exhibits, or programs.

- **2.7 million youth and adults** participated in NOAA-supported informal education programs.

- **33.4 million visits** were made to NOAA Education websites that host valuable activities and information.
NOAA Employee Profile

Age Profile

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Employees</th>
<th>(blank)</th>
<th>Millennials</th>
<th>Generation X</th>
<th>Baby Boomers</th>
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<td>5264</td>
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<tr>
<td>2013</td>
<td>1</td>
<td>1</td>
<td>1434</td>
<td>4914</td>
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<td></td>
<td>1311</td>
<td>4326</td>
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New Opportunity
Conservation Corps Act Direct Hire Authority

- Conservation Service Corps Act of 2019 allows NOAA to direct hire interns up to two years after earning undergraduate or graduate degrees

- Eligible internship programs:
  - José E. Serrano Educational Partnership Program
  - Ernest F. Hollings Undergraduate Scholarship
  - Internships in Marine Geography
  - John A. Knauss Marine Policy Fellowship
  - Margaret A. Davidson Graduate Fellowship New!
  - The William M. Lapenta NWS Internship Program
  - NMFS – Sea Grant Population Dynamics Fellowship Program
  - Woods Hole Partnership Education Program
Educational Partnership Program w/Minority Serving Institutions

- Supports 4 cooperative science centers and undergraduate scholarships
- 19% of students from NAML institutions (66 out of 351)
- Top Schools: University of Texas, Rio Grand Valley (19); California State University, Monterey Bay (12); Texas A&M University-Corpus Christi (10); University of Maryland (8); Savannah State University (7); University of Miami (5); Oregon State University (3), University of California, Santa Cruz (1)
Ernest F. Hollings Undergraduate Scholarship

- Two year undergraduate scholarship for rising juniors in NOAA mission fields
- 48% of students from NAML institutions (185 out of 385 students, 2017 - 2019)
- Top Source Schools: U. Miami (25), Eckerd (23), U. South Carolina (14), U. Maryland (13); U. North Carolina, Wilmington (9), Western Washington University (8)
B-WET provides grants to increase understanding and stewardship of local watersheds through multi-stage activities performed both outdoors and in the classroom.

Since 2002, 60 awards to 23 unique NAML institutions totaling $8M.

Grant recipients include:

- Gulf Coast Research Laboratory
- Chesapeake Biological Laboratory
Environmental Literacy Program

- Provides grants and in-kind support to improve ecosystem stewardship and increase resilience to environmental hazards through education
- Awarded over $75 million since 2005

2019:
- Provided support for 157 institutions serving 50 million visitors
- Northeastern University Marine Science Center current partner on two resilience grants
Citizen Science Community of Practice

- NOAA supports a broad range of citizen science projects
- 49 NOAA projects listed in federal catalog
- NOAA citizen science has generated more than half a million volunteer hours
- Citizen science established as a NOAA Strategic Priority
- April 22-24 NOAA citizen science workshop - now virtual
NSF-NOAA agreement allows NSF Graduate Research Fellows to conduct internships at NOAA

- 6,500 active Graduate Research Fellows, including @1,000 in NOAA mission fields
- Awards to 1st and 2nd year PhD students
- Fellows have 3 years of support at $34000/year and $5k for travel or research costs for internships
- Internships can be 8 weeks to 12 months in duration
- NOAA has hosted 16 GRIP recipients NMFS (15) NWS (1)
## NOAA Education Budget Update

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<th>FY19</th>
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<th>FY21 PresBud</th>
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<td>Education Program Base</td>
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<td>Environmental Literacy Program</td>
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<td>B-WET Regional Program</td>
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<td>Total Appropriation</td>
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<td>Hollings Scholarship Program*</td>
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<td><strong>Total funding</strong></td>
<td><strong>33.9</strong></td>
<td><strong>35.6</strong></td>
<td><strong>5.5</strong></td>
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* Hollings Scholar Program funded as one tenth of one percent of the total NOAA appropriation
How can NAML help?

- Continue connecting your students to NOAA opportunities
- Look for opportunities for alumni to work at NOAA
- Connect with NSF GRIP students and NOAA
- Continue support for NOAA education and ocean literacy
How can NOAA Education help NAML?