NOAA Education Briefing for
National Association of Marine Labs
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Purpose

- NOAA Education Accomplishments
- 2015/16 STEM Budget
- NSF Graduate Research Fellow
- NOAA Education Strategic Plan
- What Can NAML Do?
2014 NOAA-wide Education Accomplishments

- Over **108 million people** visited informal education institutions hosting NOAA supported exhibits or programs that enhance stewardship and promote decision making.
- Over **420 institutions** increased educational capacity through NOAA-funded interpretive/educational centers, exhibits or programs.
- Over **2.6 million youth and adults** participated in NOAA supported informal education programs that enhanced stewardship and promote informed decision making.
- Nearly **570,000 preK-12 students** participated in NOAA supported formal education programs that enhanced understanding and use of NOAA science and other resources.
- Over **36,000 educators** participated in NOAA supported professional development programs that enhanced understanding and use of NOAA science and other resources.
- Over **25 million people** visited NOAA Education websites that support a broad spectrum of educational activities and provide critical information to the Nation.
- Over **3,500 postsecondary students** trained in NOAA-mission related sciences through NOAA-funded higher education programs that prepare students for career paths at NOAA and related organizations.
- Over **580 postsecondary degrees** in NOAA-related disciplines awarded to students who were supported by NOAA in higher education programs.
Committee on STEM Education (CoSTEM)
2016 Budget Update

- President’s 2016 Budget invests more than $3 billion in STEM Education, an increase of 3.6 percent over the 2015 enacted level.

- STEM education programs have been reduced by 40 percent over the last two years reducing fragmentation.

- Significant education increases are included in 2016 President’s Budget: +$45.5M for outdoor education at the Department of Interior, +$11M for environmental education efforts at EPA, and +$10M for STEM education the Department of Energy.

- Five NOAA programs proposed for termination (also proposed in FY14 and FY15)

- Two NOAA programs funded: Educational Partnership Program with minority serving institutions and the Hollings Scholarship program
Programs Proposed for Termination in FY16
STEM Consolidation - FY15 Status

- **2015 Competitive Education Grants $4M**
  Request for proposals out soon – focus on resilience

- **2015 Bay Watershed Education and Training $7.2M**
  Competitions closed and under review

- **2015 Dr. Nancy Foster Scholarship $0.5M**
  Applications under review

- **2015 Teachers at Sea Program $0.6M**
  Selections completed

- **2015 National Sea Grant Program $1.0M**
  Providing leadership in bringing research on free-choice learning to marine education, providing teacher professional development and youth engagement

2015 Teacher at Sea DJ Kast teaches Science at the University of Southern California DJ will be aboard a NOAA research cruise.
Educational Partnership Program

- 2015 appropriation/2016 request $14.4M - Supports 4 cooperative science centers and student scholarships
- Cooperative Science Centers (@$12M)
  - 36% of students from NAML institutions (835 out of 2,331)
  - Half of academic partners are NAML organizations (11 of 21): SUNY Albany, Hampton University, Savannah State, University Texas A&M University, Corpus Christi, University of Maryland-College Park, University of Maryland- Eastern Shore, University of Miami, University of Texas (El Paso), Cal State University, Oregon State University
- Undergraduate Scholarship Program
  - Similar to Hollings, but must be at MSI to apply
- Graduate Sciences Programs (sunsetting)
  - Replaced by Pathways Program and Graduate Research and Training Scholars
Ernest F. Hollings Undergraduate Scholarship

- Two year undergraduate scholarship for rising juniors in NOAA mission fields
- Over 1,100 students completed program since 2005
- 40% of students from NAML institutions (455 of 1153)
- Top institutions: Eckerd (53), University of Miami (44), Cornell (26), University of South Carolina (25)
New Opportunity
NSF Graduate Research Internship Program

- 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. NSF provides $5k for travel or research costs for internships
  - 27 universities have 10 or more fellows in NOAA-related fields, including University of California/San Diego and University of Washington
# NSF Graduate Research Interns

- Internships can be 10 weeks to 12 months in duration
- Applicants apply through NSF FastLane and NSF conducts first round of reviews

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<tr>
<th>Target Application Date</th>
<th>Anticipated Placement</th>
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<tbody>
<tr>
<td>December 5, 2014</td>
<td>Summer 2015</td>
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<tr>
<td>March 6, 2015</td>
<td>Fall 2015</td>
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<td>June 5, 2015</td>
<td>Winter 2015-2016</td>
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Draft NOAA Education Strategic Plan

- Draft NOAA Education Strategic Plan out for review soon
- Update Goals:
  1. Science informed society
  2. Conservation and Stewardship
  3. Safety and Preparedness
  4. Future Workforce
  5. Education Excellence
How can NAML help?

- Continue connecting students to NOAA opportunities
- Connect NSF GRIP students with NOAA
- Comment on our Strategic Plan
- Continue support for NOAA education