

**NOAA Education Briefing for  
National Association of Marine Labs  
March 2, 2015**



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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

3

- 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

5



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

- **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

# 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

Target Application Date	Anticipated Placement
December 5, 2014	Summer 2015
March 6, 2015	Fall 2015
June 5, 2015	Winter 2015-2016

# 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

