

25 YEARS OF STEM EDUCATION AND WORKFORCE DEVELOPMENT



CENTER FOR COASTAL AND MARINE ECOSYSTEMS (CCME) GRADUATES

Established in 2001, our Cooperative Science Center (CSC) has produced the following graduates to support our nation's competitiveness:

68 DOCTORATES
144 MASTERS
190 BACHELORS
16 JURIS DOCTORATES

To advance strategic priorities such as aquaculture, artificial intelligence, disaster resilience, fisheries management, GIS, and observations in remote marine environments.

HIGHLIGHTS IN SUSTAINABLE CAPACITY BUILDING

The CSC award has supported recognitions across the center for research funding, social mobility and institutions of distinction. It has enhanced STEM curriculums through new courses, faculty hires and programs developed. Campus highlights, professional development opportunities and alumni stories showcase accomplishments.

Florida A&M University updated its Carnegie Research Category to R-2 and advanced its environmental program from an institute to a school

Bethune Cookman University established the Institute of Advanced Remote Sensing for Environmental Intelligence

The University of Texas at Rio Grande Valley expanded its marine science program and established new organized research unit, Marine Ecosystems Institute, as its Port Isabel campus

Jackson State University expanded its Marine and Environmental Genomics Center and acquired a HPC workstation to analyze omics data

California State University Monterey Bay developed a drone program and has a new building co-located with the NOAA Monterey Bay National Marine Sanctuary

Texas A&M University Corpus (TAMUCC) Christi established a new program in Stakeholder-Guided Environmental Science (STAGES)



Center personnel from the Environmental Cooperative Science Center at a conference (Photo Credit: ECSC)

\$120M
ESTIMATED LEVERAGED
RESEARCH FUNDING
OVER 25 YEARS

753
PRESENTATIONS
DURING CCME I & II THUS FAR

Research Foci

Coastal Resilience
Place Based Conservation
Coastal Intelligence
Forecasting and Modelling
Ecosystem Characterization
Ecological Processes

RESEARCH, FACULTY EXPERTISE AND SERVICE

350
PUBLICATIONS

CCME and its predecessors conduct research to advance science such as the following: developing aquaculture in the Gulf of America, measuring ecosystem impacts from the BP oil spill, meaningful outreach to coastal communities, innovative model development and identifying best practices to inform future management decisions.

Center faculty are regularly featured for their expertise and earned major recognitions in the field.

Dr. Larry Robinson (Former Assistant Secretary of Commerce for Conservation and Management at NOAA)
Dr. David Yoskowitz (Former Chief Economist at NOAA)
Dr. Owen Temby (NOAA Social Science Working Group)
Dr. Paul Montagna (Endowed Chair of Hydroecology at the Harte Research Institute)
Dr. Erin Easton was selected for the Explorers Club Citation of Merit.

From summer camps, local science fairs, school visits and environmental festivals, our public engagement promote science education and NOAA.

HIGHLIGHTS OF CENTER FELLOWSHIPS AND CONTINUED EDUCATION



CCME II scholars, Cristian Martinez and Matthew Biermann at the NOAA EPP Forum with CCME II Distinguished Research Scientist, Dr. Steven Morey (Photo Credit: CCME)

NOAA Coastal Management Fellow at the State of New York
 NOAA Coastal Management Fellow with the State of Delaware
 NOAA Coastal Management Fellow in the U.S. Virgin Islands
 Knauss Fellowship at the NOAA Office of Education
 Knauss Fellowship at the NOAA Office of International Affairs
 Knauss Fellowship at the White House Council on Environmental Quality
 ORISE Fellowships with NOAA at the Hollings Marine Laboratory

Along with institutions within the CSC network, our alumni continued their education at schools such as the following:

McGill University
 North Carolina State University
 Princeton University
 Tufts University
 University of Arkansas
 University of California, Los Angeles
 University of Puerto Rico Mayaguez

University of California Santa Cruz
 University of Rhode Island
 University of South Alabama
 University of South Carolina
 University of South Florida
 University of Texas at Dallas
 University of Washington

NOAA EXPERIENTIAL RESEARCH AND TRAINING OPPORTUNITIES (NERTOS)

Through the years, the center has expanded its collaboration with NOAA partners to develop research and advance the mission of line offices.

117

NOAA Internships Completed

73 NOAA/NERTOS Mentors across 30 Offices/Laboratories work with our center scholars.



NOAA partners with CCME II faculty, staff and students at its annual meeting in Seattle, Washington (Photo Credit: CCME)



CCME II scholar, Elyssia Gonzalez and faculty mentor Dr. Erin Easton engaged in research at sea (Photo Credit: CCME)

WORKFORCE PLACEMENT

Center alumni serve the workforce across multiple sectors including

NOAA
 EPA
 Innoceana
 Department of Energy
 Texas General Land Office
 National Park Service
 San Francisco Estuary Partnership
 National Geospatial Intelligence Agency
 University of Illinois, Urbana Campaign

NASA
 FEMA
 Ramboll
 Louisiana Sea Grant
 University of Tampa
 U.S. Geological Survey
 Texas Dept. of Fish and Wildlife
 Woods Hole Group
 Jackson Public Schools

STEM LEADERSHIP ROLES

Center alumni have served in leadership roles (e.g. lead scientists, engineers and administrators) at the following:

NOAA NCCOS
 NOAA Coast Survey
 NOAA Cooperative Institutes
 NOAA Coral Reef Conservation Program
 NOAA Office of Education
 NOAA Southeast Fisheries Science Center
 American Fisheries Society
 Conservation Equity Management
 State of Florida, Broward County Government
 Department of Energy
 Texas Commercial Oyster Mariculture Advisory Board
 U.S. Army Corps of Engineers



Center alumna and NOAA Air Resources Deputy Director and Lead Research Physical Scientist, Dr. Latoya Myles receiving an award as the spring commencement speaker and CCME II Principal Investigator, Dr. Larry Robinson (Photo Credit: CCME)