

## MAURICE K. CRAWFORD

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### EDUCATION

North Carolina State University, Ph.D. Zoology, 1996

Rutgers University, M.S. Ecology, 1984

University of Massachusetts - Dartmouth, B.S. Biology, 1980

### POSITIONS HELD

<b>Associate Professor</b> Department of Natural Sciences University of Maryland Eastern Shore Princess Anne, MD	2014-present
<b>Associate Professor</b> <b>Assistant Professor</b> Department of Biology and Marine Environmental Science Elizabeth City State University, Elizabeth City, NC	2012-2014 2007-2012
<b>Research and Outreach Coordinator</b> Marine Management Area Science Program Conservation International, Arlington, VA	2006
<b>Science Coordinator</b> National Estuarine Research Reserves National Oceanic and Atmospheric Administration (NOAA) Ocean Service Silver Spring, MD	2001-2005
<b>Fishery Biologist</b> National Centers for Coastal Ocean Science NOAA Ocean Service, Silver Spring, MD	1999-2001

**POSITIONS HELD** (continued)

<b>Research Associate</b> Academy of Natural Sciences of Philadelphia, Estuarine Research Laboratory, St. Leonard, MD	1999
<b>Science and Diplomacy Fellow</b> American Association for the Advancement of Science US Agency for International Development, Washington, DC	1997-1998
<b>Fishery Biologist</b> (Co-op Student Appointment) NOAA Fisheries, Beaufort, NC	1992-1997
<b>Research/Teaching Assistant</b> Department of Zoology, North Carolina State University, Raleigh, NC	1990-1992
<b>Research Coordinator</b> Daniel B. Warnell School of Forest Resources, University of Georgia Athens, GA	1985-1989
<b>Fishery Biologist</b> NOAA Fisheries, Woods Hole, MA	1983-1985
<b>Research/Teaching Assistant</b> Rutgers University, New Brunswick, NJ	1981-1983
<b>Fishery Biologist</b> NOAA Fisheries, Woods Hole, MA	1980-1981
<b>Biological Technician</b> NOAA Fisheries, Woods Hole, MA	1979

**AWARDS and HONORS**

ECSU Sponsored Programs Award 2010 Largest Number of Proposals Submitted, 2 <sup>nd</sup> place
ECSU Sponsored Programs Award 2010 Largest Number of Awards, 3 <sup>rd</sup> place
ECSU Sponsored Programs Award 2008 Scholarly Award
NOAA National Ocean Service, Office of Coastal Resource Management 2004 Special Service Award
NOAA National Ocean Service, Office of Coastal Resource Management 2003 Special Service Award

**AWARDS and HONORS** (continued)

NOAA National Ocean Service, Office of Coastal Resource Management  
2002 Special Service Award

Department of Commerce  
2000 Certificate of Recognition

American Association for the Advancement of Science  
1997-1998 Science and Diplomacy Fellow

National Marine Fisheries Service, Beaufort Lab  
1992-1997 Co-op Student Appointment.

Electric Power Research Institute  
1992-1995 Fellowship in Population Biology

**PUBLICATIONS**

**Referred Publications**

Meads, D. M<sup>1</sup>. Crawford and K. Dockendorf 2011. Predicting Weights of Striped Bass (*Morone saxatilis*) in the Roanoke River, NC. J. NC Academy of Sciences 127(3): 216-218).

Heidi Schuttenberg, Colleen Corrigan, Lizzie McLeod, Paul Marshall, Naneng Setiasih, David Obura, Ove Hoegh-Guldberg, Billy Causey, Mark Drew, Lara Hansen, Gabriel Grimsditch, Jordan West, Andrew Skeat, Mark Eakin, Laurence McCook, **Maurice Crawford**, Phil Kramer and Stuart Campbell (2007). Building resilience into coral reef management: key findings & recommendations. International Tropical Marine Ecosystems Management Symposium 3, Cozumel, Mexico 2006  
<http://www.itmems.org/itmems3/NEW%2001%20BUILDING%20RESILIENCE/05%20T1%20THEMATIC%20REPORT/01%20T1BuildingResilience.pdf> (last accessed 11/30/09)

Wasson, K., D. Lohrer, M. Crawford and S. Rumrill. (2002). Non-native Species in our Nation's Estuaries: a Framework for an Invasion Monitoring Program. National Estuarine Research Reserves Technical Report Series 2002:1.

Grossman, G.D., R.E. Ratajczak, M.K. Crawford and M.C. Freeman. 1998. Assemblage Organization in Stream Fishes: Effects of Environmental Variation and Interspecific Interactions. Ecol. Monogr. 68:395-420.

Irlandi, E.A. and M.K. Crawford. 1997. Habitat Linkages: The Effect of Intertidal Saltmarshes and Adjacent Subtidal Habitats on Abundance, Movement and Growth of an Estuarine Fish. Oecologia 110:222-230.

Grossman, G.D., R.E. Ratajczak and M.K. Crawford. 1995. Do Rock Bass (*Ambloplites rupestris*) Induce Microhabitat Shifts in Mottled Sculpin (*Cottus bairdi*)? Copeia 1995:343-354.

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<sup>1</sup> Elizabeth City State University undergraduate student

**PUBLICATIONS** (continued)

- Grossman, G.D., J.F. Dowd and M.K. Crawford. 1990. Disturbance and Recovery in Lotic Ecosystems: A Review. *Environmental Management* 14:661-671.
- Crawford, M.K., C.B. Grimes and N.E. Buroker. 1988. Stock Identity of Weakfish (*Cynoscion regalis*) in the Middle Atlantic. *Fishery Bulletin* 87:205-211.
- Freeman, M.C., M.K. Crawford, J.C. Barrett, D.E. Facey, M.G. Flood, J. Hill, D.J. Stouder and G.D. Grossman. 1988. Fish Assemblage Stability in a Southern Appalachian Stream. *Canadian Journal of Fisheries and Aquatic Sciences* 45: 1949-1958.
- Gifford, V.M. and M.K. Crawford. 1988. Redfish (*Sebastes faciatus*). In: Pentilla, J. and L.M. Dery. Age Determination Methods for Northwest Atlantic Species. NOAA Technical Report NMFS #72, 135 pp.

**Books**

- Kendyl Crawley Crawford, Matthew Davis, Keya Jackson, Kristina Jiles, Aneese Williams, Paris Williams and Ryan Winder. Mentors: Dr. Maurice Crawford, Dr. Deidre Gibson and Dr. Kam Tang. 2010. Dream the Ocean Clean. <http://sites.google.com/site/vimsdreams/Home/dream-the-ocean-clean> (last accessed 8/11/2013).

**GRANTS and CONTRACTS AWARDED**

- 2013-2014 Gateway to Renewable Energy and Environmental Sustainability, InTeGrate \$45K, co-PI with Ben Cuker
- 2011-2014 Educational Partnership in Climate Change and Sustainability, National Science Foundation, \$88K, PI
- 2011-2013 Genetic Diversity of Submerged Aquatic Vegetation, NC Division of Marine Fisheries \$82K, PI
- 2008-2010 Diversity in Research Environmental and Marine Sciences, National Science Foundation, \$58K, PI
- 2008-2010 Monitoring Effects of a Potential Increased Tidal Range in the Cape Fear River Due to Deepening Wilmington Harbor NC, US Army Corps of Engineers, \$899K, PI
- 2008-2010 Currituck Sound Restoration Project: PAR and Water Quality, US Army Corps of Engineers, \$80K, PI
- 2008-2010 Restoration of Submerged Aquatic Vegetation in Currituck Sound and Back Bay, US Fish and Wildlife Service, \$76K, PI
- 2007-2008 Implement Wave/Current Observing Measurements, US Army Corps of Engineers \$55K, co-PI with Francisco San Juan

**GRANTS and CONTRACTS AWARDED** (continued)

2003-2004 Broad Scale Non-indigenous Species Monitoring in West Coast Marine Sanctuaries and Estuarine Reserves, National Fish and Wildlife Foundation, \$188K, co-PI with Gregg Ruiz

**PRESENTATIONS**

(Selected 10 from 38 presentations)

**Society and Professional Presentations**

Crawford, M, J. Phelps, B. Graham and M Young. 2013. Patterns of Submerged Aquatic Vegetation Biomass in Currituck Sound, NC. ASLO 2013 Ocean Sciences Meeting, New Orleans, LA

Crawford, M. 2011. Seasonal Variation of Submerged Aquatic Vegetation in Currituck Sound. State of the Sounds Symposium 2011, New Bern, NC

Crawford, M, D. Gibson and K. Tang 2010. Diversity in Research in Environmental and Marine Sciences (DREAMS II) Program: Enhancing Participation in the Marine Sciences. ASLO 2010 Ocean Sciences Meeting, Portland OR

Crawford, M. and C. Nieder. 2003. Putting Science into the Hands of Practitioners: National Estuarine Research Reserves Coastal Training Program and Restoration Science Initiative. Restore America's Estuaries: Inaugural National Conference on Coastal and Estuarine Habitat Restoration, Baltimore, MD.

**Invited Presentations**

Crawford, M. 2004. Science, Education and Stewardship Programs of the National Estuarine Research Reserves. Battelle Sequim Laboratory, Sequim, WA.

Crawford, M. 1997. Effects of Seagrass Meadow Heterogeneity on Fish Populations. Biology Forum, Florida A&M University, Tallahassee, FL.

Crawford, M. 1997. Effects of Seagrass Meadow Heterogeneity on Fish Populations. Institute for Fishery Research Ecology, Florida State University, Tallahassee, FL.

**International Presentations**

Crawford M. 1998. Flexible Mechanisms under the Kyoto Protocol. Regional/Bilateral Environmental Roundtable, Guatemala City, Guatemala.

Crawford M. 1998. The Performance Monitoring Plan of US AID's Climate Change Initiative. USAID/Madagascar, Antananarivo, Madagascar.

Crawford M. 1998. Adaptation to Climate Change and Variability: Results of an Intergovernmental Panel on Climate Change Workshop. Ministry of the Environment and Natural Resources, San Salvador, El Salvador.

## PROFESSIONAL ACTIVITIES and SERVICE

### Academic

#### *Elizabeth City State University*

Biology Senator - ECSU Faculty Senate, 2011-2013  
School of Math Science and Technology Student Marshal, 2010-present  
School of Math Science and Technology Curriculum Committee, 2009-present  
MS&T Faculty Credentials Committee, 2013 - present  
Disabilities Service Team 2011-present  
University Teacher of the Year Committee, 2010-2011  
Library Committee for Southern Association of Colleges and Schools Reaffirmation (Requirement 3.8.2), 2009-2011  
Marine Environmental Science Program Coordinator, 2009-present  
Science Judge, Elizabeth City and River Road Middle School Science Fairs, 2010 & 2011  
Biology Department Recruitment Committee (Chair) 2008-2013  
Biology Department Program Evaluation and Student Retention Committee 2009-present  
Biology Department Undergraduate Curriculum Committee 2010-present  
University Personnel Committee, 2007-2008

#### *North Carolina State University*

Zoology Seminar Co-coordinator, NC State University, 1991-1992.  
Zoology Graduate Student Representative, NC State University, 1991.

#### *Advisory Boards*

Savannah River Environmental Sciences Field Station, Board member, 2008-present  
Watershed Watch Advisory Board member, 2009-2011  
Centers For Ocean Sciences Education Excellence (COSEE) – Coastal Trends, Advisory Board member, 2008-2010

#### *Courses Taught*

##### *Elizabeth City State University (2007 – present)*

MAS 111 Introduction to Marine Science  
MAS 226 Beach and Island Environments  
MAS 331 Marine Biology  
MAS 401 Global Geochemical Cycles  
MAS 402 Physical Oceanography  
MAS 420 Marine Vertebrates  
MAS 425 Independent Study  
MAS 443 Coastal and Marine Resources Management  
MAS 450 Research in Marine Science I  
MAS 451 Research in Marine Science II  
MAS 452 Seminar in Marine and Environmental Science  
ENSC 101 General Environmental Science & Lab  
BIOL 155L Principles of Biological Sciences Lab  
BIOL 460 Advanced Experimental Methods  
BIOL 495 Biology Seminar  
BIOL 489 Special Problems in Biology

##### *North Carolina State University (1990)*

Teaching assistant for BIO 360 Ecology  
Teaching assistant for Aquatic Natural History

**PROFESSIONAL ACTIVITIES and SERVICE (continued)**

**State and Federal Governments**

*Science Committees*

Science and Technical Advisory Committee, Albemarle-Pamlico Estuary Partnership, 2011-2014  
SAV Partnership, Albemarle-Pamlico Estuary Partnership, 2008-present  
UNC Coastal and Marine Research Council, 2008-present  
Strategic Habitat Areas (SHAs) Region I Committee, NC Division of Marine Fisheries, 2007-2009

*Science Reviews*

NSF Panel Review, 2013  
Journal of Experimental Marine Biology & Ecology, 2013  
Maryland Sea Grant, Graduate Fellowships, 2013  
Maryland Sea Grant, Aquatic Invasive Species, 2010  
Panel Reviewer for NOAA Sea Grant, NOAA COP, CICEET and USFWS 2000-2005

**Non-Governmental Organizations**

Port Discovery Hands-on Science Center, Board member, 2011 - present  
Port Discover Hands-on Science Center volunteer and Second Saturday Science Presenter, Elizabeth City, NC, 2007-2012

**PROFESSIONAL TRAINING**

**Project Management**

Social Behavioral Research Investigators and Key Personnel, CITI, 2011  
Viking Shoppes: Requisition & Approval Process, ECSU, 2010  
Social and Behavioral Responsible Conduct of Research, CITI, 2010  
Grants and Cooperative Agreements for Federal Personnel, Washington, DC 2004  
NOAA Grants Management Training, Silver Spring, MD, 2004  
Logic Model Development and Performance Measures, NOAA, Silver Spring, MD 2004  
Project Management Training, NOAA, Silver Spring, MD, 2002.

**Leadership and Supervision**

QPR Suicide Prevention Gatekeeper, ECSU, 2010  
Effective Group Problem Solving, Leadership Development Series, NC State Univ., 1995  
Conflict, a Creative Opportunity, Leadership Development Series, NC State Univ., 1995  
Interpersonal Management Skills, Leadership Development Series, NC State Univ., 1995  
Effective Leadership, Leadership Development Series, NC State Univ., 1995  
Supervisory Training for Watch Chiefs and Scientists, NOAA Fisheries, Woods Hole, MA, 1984

**Communication**

Navigating in Rough Seas: Public Issues and Conflict Management, Silver Spring, MD, 2002.  
Basics of Working with the News Media, USFWS, National Conservation Training Center, WV, 2000.  
Communication Styles, Leadership Development Series, NC State Univ., 1995

**PROFESSIONAL TRAINING** (continued)

**Teaching**

Blackboard Management – Course tools; Grade book; Course options, Test & Survey, ECSU, 2012

Teaching Effectiveness Workshop, NC State Univ., Raleigh, NC, 1990

Developing Your Own Style, Teacher Training Course, NC State Univ., 1993

**Technical and Language**

Introduction to GIS and Remote Sensing in Conservation and Wildlife Management, National Zoo, 2011

Extended stays in Quetzaltenango, Guatemala and Sucre, Bolivia to attend Spanish Language Schools, 2005

Introduction to ArcView GIS, ESRI, Silver Spring, MD 2001