

VITA

Name: Craft, Christopher Bruce

Education: Ph.D., Soil Science, North Carolina State University. 1987.
Dissertation Title: Sources, accumulation and tidal exchange of nitrogen, phosphorus and organic carbon in transplanted estuarine marshes.
M.S., Ecology, University of Tennessee. 1983.
Thesis Title: Hydrogen and sulfate additions to the forest floor and their effects on soil and litter arthropods.
B.A., Biology, University of North Carolina-Asheville. 1980.

Academic Appointments: Director. Environmental Science Ph.D program. Indiana University. July 1 2012 - present.

Duey-Murphy Professor of Rural Land Policy, School of Public and Environmental Affairs, Indiana University (September 1, 2009 - present)

Professor. School of Public and Environmental Affairs, Indiana University (July 1 2008 - present)

Associate Professor, School of Public and Environmental Affairs, Indiana University (August 15, 1999 – June 30 2008)

Adjunct Professor, University of Louisville (1997-1998)

Adjunct Professor, University of Notre Dame (1997-2000)

Adjunct Professor, North Carolina State University (1998-2002)

Adjunct Professor, Institute of Ecology,
University of Georgia (1998-2014)

Adjunct Professor, Geology Dept., Indiana Univ. (2000-present)

Adjunct Professor, Biology Dept., IU (2003-present)

Assistant Professor, Biology Department, University of Louisville, (Jan. 1 1996 - August 31 1997)

Adjunct Professor, University of Michigan Biological Station (Summer 1997)

Research Assistant Professor, School of the Environment, Duke University (1992-1996)

Post-doctoral Experience: Research Associate, School of the Environment, Duke University (1989-1992)

Research Associate, Department of Botany, North Carolina State University (1987-1989).

- Other Appointments:** Guest Professor. State Key Laboratory of Estuarine and Coastal Research. East China Normal University. Shanghai, China. January 1 2013 – present.
- Visiting Scholar. Ha Noi University of Science, Vietnam National University. Ha Noi, Vietnam. 2014.
- Visiting Scholar. Czech University of Life Sciences. Prague, CZ. 2013.
- Visiting Professorship for Senior International Scientists. Chinese Academy of Sciences. 2010-2013.
- Assistant Scientist, Joseph W. Jones Ecological Research Center 1997 - 1999

- Professional Societies:** American Association for the Advancement of Science
Estuarine Research Federation
INTECOL – The International Association for Ecology
Society of Wetland Scientists
Soil Science Society of America
Wisconsin Wetlands Association

- Certifications:** Professional Wetland Scientist (PWS). 2007-present.

- Awards:** Fellow. Society of Wetland Scientists. 2015.
- National Wetlands Award for *Science Research*. Sponsored by the Environmental Law Institute. Washington DC. 2012.
- Visiting Professor for Senior International Scientists of the Chinese Academy of Sciences. 2010-2013.
- Hugh Hammond Bennett Award in Soil Conservation and Environmental Quality. Presented by the North Carolina Association of Soil and Water Conservation Districts. 1987.

- Teaching Assignments:** Indiana University: Wetlands Ecology (1999-present)
Applied Ecology (2000-present)

Environment & People (2000, 2006-present)
Restoration Ecology (2001-present)
Organizer, Environmental Science and
Policy Seminar (2003-2004)

Jones Center: Hydric Soils (short-course, July 1998)

Univ. of Michigan: Field Wetlands Ecology
(summer 1997, Biological Station)

Univ. of Louisville: Environmental Science (1996)
Wetlands Ecology (1996)
Introduction to Ecology (1997)

Duke University: Applied Ecology (1990-1992, co-instructor)
Soil Resources (1993)
Wetland Field Skills (1994-1995)
Jurisdictional Wetland Delineation
(short-course, 1995)

Graduate Students:

Indiana University Michelle Ruan (MSES, present)
Jenna Nawrocki (MSES, present)
Kristin Ricigliano (MSES, present)
Scott Perry (MSES, present)
Kate Drake (MSES, present)
Nate Barnett (MSES, 2014)
Kelsey Thetonia (MSES, 2013)
Andrew Grean (MSES 2013)
Holly Halifax (MSES 2013)
Jason Hewitt (MSES, 2012)
Jacob Bannister (MSES, 2012)
Brianna Richards (MSES, 2012)
Kari Metcalf (MSES, 2011)
Iza Redlinski (MSES, 2010)
Nathan Knowles (MSES, 2010)
Sara Sutton (MSES, 2010)
Wes Ket (MSES, 2010)
Nick Tackett (MSES, 2009)
Kristen Wardlaw (MSES, 2008)
Mark Loomis (MSES, 2008)
Jon Shelby (MSES, 2007)
Josh Frost (MSES, 2007)
Kandice Krull, MSES, 2006)
Tymeri Schleicher (MSES, 2005)
Josh Hall (MSES, 2005)
Kristie Overberg (MSES, 2003)
Sean Graham (MSES, 2003)

Chad Washburn (MSES, 2002)
Angela Sturdevant (MSES, 2002)
Mollie McIntosh (MSES, 2001)

Ellen Herbert (Ph.D, current)
John Marton (Ph.D, 2011)
Ross Brittain (Ph.D, 2009)
Scott Struck (Ph.D, 2003)
Lei Zheng (Ph.D, Mich. State U., 2003)
Robert Freeze (Ph.D, NC State Univ., 2003)

Univ. of Louisville Judy Reader (MS, 1998)

Jones Center Fabio Sartori (Ph.D, Univ. of Georgia)

Duke University David Rogers (MEM, 1996)
Keith Pilgrim (MEM, 1995)
Connie Chiang (MEM, 1994)
Sue Bartow (MEM, 1994)
Jane Raikes (MEM, 1993)
Lori Sutter (MEM, 1992)

Service:

University Committee Service:

Interim Chair, Environmental Science Faculty. SPEA. January 1-May 31 2013.

Director. Environmental Science Ph.D program. Indiana University. July 1 2012 – present.

SPEA Environmental Science Faculty Search Committee. Fall 2011.

SPEA Oversees Education Committee (SPEA, Indiana University, Jan. 1 2009-present)

Personnel Committee. (SPEA, Indiana University, Fall 2008-present)

SPEA Environmental Science Faculty Search Committee. Chair, Fall 2008.

Budgetary Affairs Committee. (SPEA, Indiana University, Fall 2007-present)

Policy Committee. (SPEA, Indiana University, Fall 2007-present)

General Education Committee. (Indiana University, Fall 2007-December 31 2009)

Environmental Science Faculty Search Committee, (Chancellor's Commitment to Excellence Program. Fall 2005)

Jordan River Renewal Working Group. IU Council for Environmental Stewardship (Jan. 2001-Dec. 31 2009)

Ph.D Admissions Committee (SPEA, Indiana University, Jan. 2005-Dec. 31 2009)

Fairness Committee (SPEA, Indiana University, Jan. 2002-Dec. 31 2009)

Strategic Directions Committee (SPEA, Indiana University, Jan. 2000-Dec. 31 2009)

MSES Admissions Committee (SPEA, Indiana University, Fall 1999-present)

Public Service (State and Local):

Friendraiser/Fundraiser for the University of Georgia Marine Institute. August 9 2014.

Committee member. Indiana Heritage Trust Project. November 10 2010-present.

Georgia Department of Natural Resources. Brunswick, Georgia. Damage assessment, mitigation, creation of restoration of tidal marshes in Glynn County and elsewhere in coastal Georgia (June 2007-present)

The Nature Conservancy. Georgia. Modeling effects of climate change/sea level rise on TNC land holdings in coastal Georgia (April 2007-present)

Member, Georgia Coastal Resources Council. July 1 2006-present

Member, Wetland Science Advisory Group. Indiana Department of Environmental Management (August 1 2004-present)

Expert Assistance Pool, South Florida Water Management District. West Palm Beach, Florida. June 15 2001-present.

Advisor on wetlands issues: Monroe County Solid Waste Management District (Bloomington Indiana, Mar. 1 2001-present)

Public Service (National):

Presentation to Senator Sheldon Whitehouse (D-RI) on the response of southeastern U.S. tidal wetlands to climate change and sea level rise. April 23 2014. Sapelo Island, Georgia.

Environmental Defense Fund. 2012. *Thinking like a Watershed: Midwest agro-ecosystems and Gulf Hypoxia*. Workshop with Agency Scientists and NGO's. June 11-12 2012. Washington DC.

Capitol Hill. 2012. Speaker. *Workshop on Wetland Restoration and the 2012 Farm Bill*. Dirksen Senate Office Building. May 10 2012. Sponsored by the Consortium of Aquatic Science Societies.

National Fish and Wildlife Federation. 2011. Technical review of *Promoting Successful Restoration Through Effective Monitoring in the Chesapeake Bay Watershed*. Washington DC. April-May 2011.

U.S. Fish and Wildlife Service. 2010. Land Management and Research Demonstration Carbon Sequestration Workshop. Duluth, MN. August 31-Sept. 2 2010.

U.S. Environmental Protection Agency. 2010. Workshop on Indicators of Final Ecosystem Services for Estuaries and Wetlands. Denver CO. June 7-10 2010.

California Climate Action Registry. Tidal wetland carbon sequestration and greenhouse gas emissions model. National Center for Ecological Analysis and Synthesis. UC-Santa Barbara, California. 2010-present.

Environmental Law Institute. Science Advisory Panel. Ecological Effectiveness of Compensatory Mitigation. Washington DC. August 1 2009-present.

U.S. Army Corps of Engineers. Review of Mid-Chesapeake Bay Island Ecosystem Restoration. Nov. 1 2007-Dec. 31 2009.

U.S. Geologic Survey. Northern Gulf of Mexico SET Science Advisory Committee. Sept. 30 2007 – present.

National Oceanic and Atmospheric Administration (NOAA). NOAA Restoration Center, Natural resource damage assessment and restoration. Creation and restoration of tidal marsh habitat at the USEPA Superfund site, Brunswick, Georgia. July 2007-present.

U.S. Fish and Wildlife Service. Washington, D.C. Modeling effects of climate change/sea level rise on USFWS coastal reserves in Georgia and South Carolina. April 2007-present.

U.S. Department of Justice. *United States v. Rapanos*. January 2007-December 31 2009.

Wetlands Working Group: Developing Nutrient Criteria for Wetland Systems (USEPA, Washington DC, Fall 1999-present)

EPA Region 5 Nutrient Criteria Working Group. USEPA. Chicago, Illinois. Jan. 1 2000-present

Biological Assessment of Wetlands Working Group. USEPA, Washington DC. Jan. 1 2000-present.

Panel member: USEPA-NSF-USDA Water and Watersheds proposal review panel (Washington DC, August 23-25 1999)

Public Service (International):

Board member. International Consultation Panel. State Key Laboratory of Estuarine and Coastal research. East China Normal University. Shanghai, China. Jan 1 2013 – present.

U.S. National Science Foundation – Chinese University (Xiamen, Beijing Normal, East China Normal Universities) Exchange. August 15-29, 2011. Xiamen, Beijing, Shanghai, China.

Technical Expert. Sustainability of Water Resources in Estuarine and Coastal Environments, East China Normal University. October 9-24 2009. Shanghai, China.

Proposal and Report Writing Workshop for Environmental Practitioners: Keys to Effective Writing. United Nations Development Program/Global Environment Facility and Yellow Sea Large Marine Ecosystem Project. Ansan, Republic of Korea. October 22-23 2007.

Professional Service:

Vice President/President-elect, Society of Wetland Scientists. 2007-2008.

President, Society of Wetland Scientists. 2008-2009

Past-President, Society of Wetland Scientists. 2009-2010.

Chair-elect, Division S-10 (Wetland Soils), Soil Science Society of America. 2002-2003.

Chair, Division S-10 (Wetland Soils), Soil Science Society of America. 2003-2004.

Past-Chair, Division S-10 (Wetland Soils), Soil Science Society of America. 2004-2005.

Associate Editor, *Ecological Applications* (July 1 2011-2014)

Associate Editor, *Wetlands* (Jan. 1 2007 – Dec. 31 2011)

Associate Editor, *Soil Science Society of America Journal* (Jan. 1 2004 – Jan. 1 2008)

Executive Committee. National Science Foundation. Georgia Coastal Ecosystems Long Term Ecological Research program. Jan. 2011-present.

Professional Activities:

Invited Seminars and Workshops:

Invited Speaker. 2015. Economic valuation of wetlands for water quality improvement: An example from Florida (USA). St. Johns River Water Management District. March 19 2015. Palatka Florida.

Invited Speaker. 2015. Water quality improvement valuation of the St. Johns River wetlands. University of North Florida. March 13 2015. Jacksonville, Florida.

Invited Speaker. Soils as an integrator of wetland structure and function following restoration. Symposium: Quantifying Wetland Soil Properties and Functions in Restored and Natural Systems. 2014 international Annual Meeting of the Soil Science Society of America. November 2-6 2014. Long Beach, California.

International Consultation Panel. State Key Laboratory of Estuarine and Coastal Research. East China Normal University. Shanghai, China. January 1 2013 – present.

Isolated Wetlands Research Workshop (sponsored by US EPA). Joseph W. Jones Ecological Research Center – Ichauway. November 18-21 2013. Newton, Georgia.

Keynote Speaker. Coastal wetlands in a changing climate: requiem or renaissance? Estuarine and Coastal Sciences Association (ECSA) 53. October 13-17 2013. Shanghai, China.

International Forum on Wetland Ecosystems and Services, July 28-August 3 2013. Changchun, China.

Sino-American workshop on wetlands and protected areas. Cornell University. May 29-30 2013. Ithaca. New York.

Willie Woltz Visiting Scientist. Department of Soil Science. North Carolina State University. April 9-10 2012. Raleigh, NC.

Department of Natural Resources and Environmental Sciences. University of Illinois. April 5 2013.

Northwestern University and Chicago Botanic Garden. March 21 2013. Glencoe, IL.

Program Committee. American Geophysical Union Chapman Conference on Hydrogeomorphic Feedbacks and Sea Level Rise in Tidal Freshwater River Ecosystems. November 13-16 2012. Reston, Virginia.

Sino-American Workshop on Wetlands and Protected Areas. November 5-6 2012. Beijing, China.

Plenary Speaker. The persistence and fate of tidal freshwater forests in the face of rising sea level. International Symposium on Climate Change and Human Activities: Coastal Consequences and responses. Oct. 28-31 2012. Shanghai, China.

Symposium Co-organizer. Effects of climate change and human disturbance on carbon dynamics of coastal wetlands. 4th International Ecosummit. Sept. 30-Oct. 5 2012. Columbus, OH.

Environmental Defense Fund. Thinking like a watershed: Midwest agroecosystems and Gulf hypoxia. June 11-12 2012. Washington DC.

Symposium-co-organizer. “Ecosystem Management and Ecosystem Services”. Biogeomon 2012. 7th International Symposium on Ecosystem Behavior. July 15-20, 2012. Northport, ME.

USA Scientific Committee. 9th INTECOL International Wetlands Conference. June 3-8 2012. Orlando, FL.

Joseph W. Jones Ecological Research Center – Ichauway. December 8 2011. Newton, Georgia.

Ecosystem Services: Charting a Path to Sustainability. The National Academies Keck Futures Initiative. November 10-13, 2011. Arnold and Mabel Beckman Center, Irvine, California.

Department of Geological Sciences. Indiana University. September 19 2011. Bloomington IN.

Symposium Speaker. From the mountains to the sea: carbon sequestration and nutrient accumulation by riparian, floodplain and tidal wetland soils. 8th World Congress of the International Association for Landscape Ecology. August 18-23 2011. Beijing, China.

Scientific Organizing Committee (Symposia). Joint Meeting of the Society of Wetland Scientists, WETPOL and Wetland Biogeochemistry Symposium. July 3-8. Prague. Czech Republic.

Keynote Speaker. Society of Wetland Scientists South Atlantic/Mid-Atlantic Joint Chapter meeting. March 7-8 2011. Reston VA.

Technical Expert. Blue Carbon Workshop. Nicholas Institute for Environmental Policy Solutions. Duke University. November 10-11 2010. Durham, NC.

Keynote Speaker. Climate change reduces the nitrogen sink capacity of tidal freshwater floodplain forests. International Workshop: eco-healthy estuaries – processes and response. October 20-23 2010. Qingdao, China.

Workshop participant. Tidal wetland carbon sequestration and greenhouse gas emissions model. National Center for Ecological Analysis and Synthesis. September 15-18 2010. UC-Santa Barbara, California.

Workshop participant. Land Management and Research Demonstration Carbon Sequestration Workshop. U.S. Fish and Wildlife Service. August 31 0-Sept 2 2010. Duluth, MN.

Workshop Organizer: NSF Tidal Marsh Accretion Modeling Workshop. July 28-29 2010. Sapelo Island, Georgia.

Plenary Chair. Peaks to Playas, 31st International Conference of the Society of Wetland Scientists. June 27-July 2 2010. Salt Lake City, Utah.

Workshop participant. Indicators of Final Ecosystem Services for Estuaries and Wetlands. U.S. Environmental Protection Agency. June 7-10 2010. Denver CO.

Moonlight on the Marsh Distinguished Lecture. Wilma H. Schiermier Olentangy River Wetland Research Park. The Ohio State University. May 12 2010. Columbus Ohio.

Earth and Environmental Sciences Department. Indiana University-Purdue University, Indianapolis. April 1 2010. Indianapolis, IN.

Workshop participant. Tidal wetland carbon sequestration and greenhouse gas emissions model. National Center for Ecological Analysis and Synthesis. March 24-27 2010. UC-Santa Barbara, California.

CERF-SWS Joint Session Co-organizer 2009. Response of wetlands to rising sea level: past, present and future. Coastal and Estuarine Research Federation 20th biennial conference. November 1-5 2009. Portland, Oregon.

Invited Lecturer. Sustainability of Water Resources in Estuarine and Coastal Environments, East China Normal University. October 9-24 2009. Shanghai, China.

USEPA. The Plight of Ecosystems in a Changing Climate: Impacts on Services, Interactions and Responses Workshop. May 27-28 2009. Seattle Washington.

USGS Tidal Marsh Modeling Workshop. San Francisco, California. December 12-13 2008.

School of Energy, Coast and the Environment. Louisiana State University, December 5 2008. Baton Rouge, Louisiana.

Biology Department. Kenyon College. Gambier, Ohio. November 20 2008.

Plenary Speaker. 3rd Annual meeting of the European Chapter of the Society of Wetland Scientists. June 29-July 3 2008. Kuressaare, Estonia.

Program in Biogeochemistry and Environmental Biocomplexity, Cornell University, Ithaca NY, March 7 2008.

Marine Sciences Program, University of South Carolina, Columbia SC. December 7 2007.

Belle Baruch Laboratory. University of South Carolina. Georgetown SC. December 6 2007.

Workshop Leader: Proposal and Report Writing Workshop for Environmental Practitioners: Keys to Effective Writing. United Nations Development Program/Global Environment Facility and Yellow Sea Large Marine Ecosystem Project. October 22-23 2007, Ansan, Republic of Korea.

Keynote Speaker: 2nd International Symposium on Wetland Pollutant Dynamics and Control (WETPOL). University of Tartu, Tartu, Estonia. September 16-20 2007.

Nicholas School of the Environment, Duke University. Durham NC. April 6 2007.

Symposium Organizer: Losing Ground? Impacts of Sea Level Rise on the Biogeochemistry of Tidal Marshes. 10th International Symposium on Wetland

Biogeochemistry. April 1-4 2007. Annapolis, Maryland. Co-organized with Mike Piehler, Institute of Marine Sciences, University of North Carolina, Chapel Hill, NC.

US EPA STAR Global Aquatic Ecosystem Services and Multi-stressor Workshop. Washington, DC. June 8-9 2006.

Czech Botanical Institute and ENKI o.p.s. Trebon, Czech Republic. (May 29 2006.)

Utrecht University, Departments of Geochemistry and Landscape Ecology. Utrecht, Netherlands. (May 23 2006)

Invited Fellow, The Nature Conservancy Efromson Workshop: Conservation Planning for Priority Bays and Estuaries along the Southeast Coast. April 10-13 2006. Savannah, Georgia.

Indiana University-School of Public and Environmental Affairs. Hurricane Katrina: The SPEA Perspective. (September 8 2005).

Workshop: Controls on sediment organic matter accumulation: comparison among wetland. NSF Long Term Ecological Research (LTER) All Scientists Meeting. Seattle, WA. (September 18-21 2003).

Workshop Organizer: “The scoop on dirt”: Soil organic matter: Patterns and processes in estuarine wetlands. 17th Biennial Conference of the Estuarine Research Federation. Seattle, WA. (September 14-18 2003).

USEPA, Evaluating Wetland Condition for Nutrient Criteria: An Outreach Workshop. Atlantic City NJ (March 25-28 2003).

University of Georgia, Warnell School of Forest Resources (March 20 2003).

Univ. of Maryland Horn Point Environmental Lab., Cambridge MD (March 19 2003).

DePaul University, Department of Environmental Science, Chicago IL (February 6 2003).

USEPA Region 5, Surface Water Monitoring and Standards (SWiMS) annual meeting. Chicago IL (February 6 2003).

Keynote Speaker. Nanjing International Wetlands Symposium. Wetland Restoration and Management: Addressing Asian Issues Through International Collaboration. Nanjing, China. (September 8-18 2002).

Smithsonian Environmental Research Center. Edgewater, MD. (Nov. 29 2001).

NSF sponsored workshop on Soil Organic Matter in Wetlands. Virginia Institute of Marine Sciences, Gloucester Point VA (July 26-29 2001).

Institute of Ecosystem Studies, Millbrook NY (March 23 2001)

Indiana University, Department of Biology (Jan. 30 2001)

Workshop: Regulation of organic matter preservation in wetland sediments. NSF Long Term Ecological Research (LTER) All Scientists Meeting. August 1-5 2000. Snowbird, Utah.

Christopher Newport University, Department of Biological and Environmental Sciences (March 17 1999)

University of Georgia, Institute of Ecology (May 22 1998)

University of Notre Dame, Department of Biological Sciences (April 1 1997)

Peer Reviewer (Journals):

Biogeochemistry, Ecological Applications, Ecological Engineering, Ecology, Ecosystems, Environmental Management, Environmental Science and Technology, Estuarine Coastal and Shelf Science, Estuaries and Coasts, Frontiers in Ecology and the Environment, Functional Ecology, Global Change Biology, Journal of Coastal Research, Journal of Environmental Quality, Journal of Water, Air and Soil Pollution, Proceedings of the National Academy of Sciences, Restoration Ecology, Soil Science, Soil Science Society of America Journal, Wetlands, Wetlands Ecology and Management

Peer Reviewer (Proposals)

National Science Foundation, U.S. Department of Agriculture-National Research Initiative, National Oceanic and Atmospheric Administration, University of Delaware Sea Grant, University of Maryland Sea Grant, Louisiana Sea Grant, Minnesota Sea Grant, CALFED-California Bay-Delta Authority and others

Grants:

National Science Foundation (NSF). Collaborative Research: RUI: Human alterations of sediment delivery to the coast – Legacies of land use, coastal wetland accretion, and future vulnerability to sea level. January 1 2015 – December 31 2018. \$665,660 (\$179,999 in funding to IU)

Saint Johns Water Management District (FL) and University of North Florida. Water. Quality Improvement Valuation of the Saint Johns River Wetlands. July 22 2014 – December 15 2014. \$47,925

National Science Foundation (NSF). LTER GCE III: Georgia land-ocean margin ecosystem. November 15 2012-November 2018. \$5,880,000. (IU subcontract from University of Georgia for \$216,717).

US Fish and Wildlife Service. Carbon storage and sequestration rates assessment. Sept. 1 2011-Dec. 31 2012. \$18,000.

Saint Johns Water Management District (FL). Forms and amounts of soil phosphorus in tidal marshes, Saint Johns River, Northeast Florida. Sept 1 2010 – August 31 2011. Subcontract from the University of North Florida for \$2,000.

National Oceanic and Atmospheric Administration. Woodbridge River Restoration, Woodbridge NJ. September 22 2010 – August 31 2013. Subcontract from HDR Inc for \$44,405.

U.S. Environmental Protection Agency. Forecasting critical ecosystem services from measures of wetland condition at the watershed scale in freshwater wetlands of Pennsylvania and Ohio. September 1 2010 – August 31 2012. Subcontract from Kenyon College for \$28,220.

National Science Foundation. Towards a predictive understanding of coastal wetland response to sea level rise: Synthesis of data to test a model of tidal marsh accretion. NSF-sponsored workshop. January 1-December 31 2010. \$12,000.

Czech-American Cooperation. Czech Ministry of Sciences. Carbon sequestration in bogs and nutrient retention in wetlands. Cooperative agreement with Prof. Jan Vymazal. Czech University of Life Sciences. January 1 2009-December 31 2012. \$43,664 in-kind support from Indiana University

U.S. Department of the Interior, Everglades National Park. Peat accretion in Everglades mangrove-sawgrass ecotone communities. January 1-September 30 2009. \$9,610.

US Department of Agriculture (USDA). Ecosystem Services Derived from Wetland Conservation Practices in the Glaciated Interior Plains: the Provision of Water Quality Benefits. July 15 2008-July 14 2011. \$196,939.

USDOE, National Institute of Climatic Change Research. Effects of accelerated sea level rise and variable freshwater river discharge on water quality improvement functions of tidal freshwater floodplain forests. April 1 2008-August 31 2011. \$343,181.

South Florida Water Management District. Radiometric dating of tree island peat cores from the Florida Everglades. July 1 – October 31 2008. \$12,666.

National Science Foundation (NSF). LTER GCE II: Georgia land-ocean margin ecosystem. November 15 2006-November 2012. \$4,200,000. (IU subcontract from University of Georgia for \$143,912).

National Oceanic & Atmospheric Administration (NOAA). Characterization of passerine food source, trophic structure and habitat utilization on Sapelo Island Georgia using stable isotopes of C, N and H. May 1 2006-April 30 2009. \$60,000. Written by PhD student Ross Brittain.

NOAA, Sapelo Island National Estuarine Research Reserve. Dean Creek Monitoring Projects: Assessing the Biological and Physiological Effects of Long-term Hydrological alteration on a tidal salt marsh. May 1 2005-April 30 2006. \$12,000.

USEPA. (Effects of Climate Change on Ecosystem Services of Tidal marshes and Coral Reefs-Science To Achieve Results (STAR) Program. Effects of sea level rise and climate variability on ecosystem services of tidal marshes, South Atlantic Coast. April 1 2005-March 31 2009. \$749,974.

NPS (Everglades National Park). Radiometric dating of wetland soil cores to re-construct historical water levels and plant communities of the Florida Everglades. Jan. 1 2005-Dec. 31 2006. IU subcontract with Florida International University (FIU) for \$10,106.

USEPA (Cincinnati). Radiometric dating of tidal marsh soil cores to assess land-use legacies of the Chesapeake Bay. Jan. 1-Sept. 30 2004. \$4,950

USEPA (Washington DC). Validation of vegetation- and soils-based indicators of wetland nutrient condition: a multi-ecoregion approach. Sept. 1 2003-August 31 2005. \$99,095.

USFWS. Measuring nutrient storage and release potentials of natural and restored wetlands in the Upper Klamath Basin. July 13 2002-December 31 2004. \$64,040. IU subcontract with The Nature Conservancy (TNC) for \$48,017.

USEPA (Washington DC). Testing soils-based indicators of eutrophication using freshwater wetlands of Indiana. Sept. 1 2001-August 31 2002. \$29,999.

USEPA (Region 5-Chicago). Testing vegetation-based indicators of eutrophication using freshwater wetlands of Indiana. Sept. 1 2001-August 31 2002. \$49,666.

New Jersey Dept. of Environmental Protection/Office of Natural Resource Restoration. A Long-term monitoring program to evaluate the development of wetland structure and function following restoration of a *Spartina* spp. marsh along Woodbridge River, New Jersey. Sept. 1 2000-August 31 2005. \$190,464.

USEPA (Washington DC). Control of wetland carbon sequestration by climate: A latitudinal comparison of soil organic carbon accumulation in freshwater peatlands. August 1 2000-July 31 2001. \$11,931.

North Carolina Dept. of Transportation/Center for Transportation & the Environment. Effects of shading from bridges on estuarine wetlands. July 1 2000-June 30 2003. \$267,825. (IU subcontract from North Carolina State University for \$104,174).

NSF. Long-term Ecological Research – Georgia Land-ocean margin ecosystem. May 1 2000-April 30 2006. \$4,200,002. (IU subcontract from Univ. of Georgia for \$142,178).

USEPA (EPA/NASA Joint Program on Ecosystem Restoration-STAR Program). Wetland restoration in urbanizing coastal watersheds: Applying ecological succession theory to evaluate indicators and predict the development of wetland structure/function over time. 1997-2000. \$534,239.

NOAA (National Estuarine Research Reserve System). Restored salt marshes: evolution of wetland structure and function over time. 1995-1997. \$71,235.

Societe Nationale Elf Aquitaine. Radium-226 activity in cover crops grown on gypsum-clay blend. 1994. \$20,311.

Publications:

Journal Articles: (63)

Drake, K., H. Halifax, S.C. Adamowicz, and C. Craft. Carbon sequestration in tidal salt marshes of the northeast United States. *Environmental Management*. In press.

Marton, J., I. Creed, D. Lewis, C. Lane, N. Basu, M. Cohen, and C. Craft. 2015. Geographically isolated wetlands are important biogeochemical reactors on the landscape. *BioScience* 65:408-418. Doi:10.1093/biosci/biv009.

Marton, J.M., R.R. Chowdhury and C. B. Craft. 2014. Restoration enhances spatial variability of denitrification and soil properties in depressional wetlands. *Journal of Biodiversity Science, Ecosystem Services and Management*. doi.org/10.1080.2153732.2014.950981.

Marton, J.M., M.S. Fennessy and C.B. Craft. 2014. USDA conservation practices increase carbon storage and water quality improvement functions: An example from Ohio. *Restoration Ecology* 22:117-124.

Marton, J.M., S. Fennessy and C.B. Craft. 2014. Functional differences between natural and restored wetlands in the Glaciated Interior Plains. *Journal of Environmental Quality* 43:409-417.

Sanchez, C., E.E. Gaiser, C.J. Saunders, A.H. Wachnicka, N. Oehm and C. Craft. 2013. Challenges in using siliceous microfossils as a tool for inferring past water level and hydroperiod in Everglades marshes. *Journal of Paleolimnology* 49:45-66..

Li, X., L. Ren, Y. Liu, C. Craft, U. Mander and S. Tang. 2013. The impact of the change in vegetation structure on the ecological functions of salt marshes: The example of the Yangtze estuary. *Regional Environmental Change* 14:623-632.

Hopple, A. and C. Craft. 2013. Managed disturbance enhances biodiversity of restored wetlands in the agricultural Midwest. *Ecological Engineering* 61:505-510.

Jun, Mihee, A. Altor and C.B. Craft. 2013. Effects of increased salinity and inundation on inorganic N and P exchange by tidal freshwater floodplain forest soils, Georgia (USA). *Estuaries and Coasts* 36:508-518.

Craft, C.B. 2012. Tidal freshwater forest accretion does not keep pace with sea level rise. *Global Change Biology* 18:3615-3623.

- Pendleton, L., D.C. Donato, B.C. Murray, S. Crooks, W.A. Jenkins, S. Sifleet, C. Craft, J.W. Fouereurean, J.B. Kaufman, N. Marba, P. Megonigal, E. Pidgeon, D. Herr, D. Gordon and A. Baldera. 2012. Estimating global “blue carbon” emissions from conversion and degradation of coastal ecosystems. PLoS-ONE. 7 (9) e43542.
- Marton, J.M., E.R. Herbert and C.B. Craft. 2012. Effects of salinity on denitrification and greenhouse gas emissions from laboratory-incubated tidal forest soils. Wetlands 32:347-357.
- Brittain, R.A. and C.B. Craft. 2012. Effects of sea-level rise and anthropogenic development on priority bird species habitats in coastal Georgia, USA. Environmental Management 49:473-482.
- Brittain, R.A., A. Schimmelmann and C.B. Craft. 2012. Habitat use by coastal birds inferred from stable carbon and nitrogen isotopes. Estuaries and Coasts 35:633-645.
- Fagherazzi, S., M. Kirwan, S. Mudd, S. Temmerman, A. D’Alpaos, J. van de Koppel, J. Rybczyk, E. Reyes, C. Craft, J. Clough and G. Guntenspergen. 2012. Numerical models of salt marsh evolution. Reviews in Geophysics, 50, RG1002.
- He, Y, X. Li, C. Craft, Z. Ma, Z. and Y Sun. 2011. Relationships between vegetation and environmental factors in newly formed tidal marshes of the Yangtze River estuary. Wetlands Ecology and Management. 19:341-349.
- Fennessy, S. and C. Craft. 2011. Effects of agricultural conservation practices on wetland ecosystem services in the Interior Glaciated Plains. Ecological Applications (Supplement) 21:S49-S64.
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