John Rodgers

Associate Professor
Physical Geography

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email

John is a biogeographer that studies invasive species, human-environmental interactions, coastal vegetation, and paleoecology. Currently, John is researching invasive species, such as Casuarina equisettifolia, in The Bahamas and investigating the affects of climate and hurricanes on Gulf Coast vegetation. Additionally he is investigating climate-vegetation interactions and cave climatology in the Bahamas. John also has interests in using geospatial technologies to monitor vegetation and land-use changes in the Southeast coastal areas.

Education

Ph.D. 1999, Geography, University of Georgia, Athens.
Dissertation Title: The affects of human disturbance on alien plant distributions and primary dune vegetation of the Georgia Sea Islands Dissertation Advisor: Dr. Kathleen C. Parker.
M.S. 1994, Botany, University of Tennessee, Knoxville
Thesis Title: Modern Pollen Spectra of Coasta Rica. Thesis Advisor: Dr. Sally P. Horn
B.S. 1991, Biology and Botany, University of Tennessee, Knoxville

Professional Experience

2001 – present Mississippi State University, Department of Geosciences,
1999 – 2001 University of New Orleans, Department of Geography

Courses taught at MSU

A) On Campus
GR 4203/6203: Geography of North America (spring semester)
GR 4303/6304: Principles of GIS (fall semester)
GG 4523/6523: Coastal Environments (spring semester)
GR 4813/6813: Natural Hazards, (spring semester)
GR 8990: Advanced Natural Hazards (spring semester)

B) Distance Learning and Teachers in Geosciences
GR 4303/6303: Principles of GIS (fall semester)
GR 4633: Statistical Climatology (fall semester)
GG 8233: Environmental Science (fall semester)
GG 8990: Special Topics in Geography: Climate Change (summer)
GR 8990: Special Topics in Geography: Geospatial Methods (fall semester)

C) TIG Summer Field Methods Courses
GR 8400 Lake Superior (2006 – present)
GR 8400 Outer Banks (2007 – present)
GR 8400 Bahamas (2009 – present)
GR 8400 Mississippi River (2002 – present)
GR 8499 Western Washington (2005)

Refereed Publications

2009 Rodgers, J. C. III, Murrah, A. W., and Cooke, W. C. III. The Impact of Hurricane Katrina on the Coastal Vegetation of the Weeks Bay Reserve, Alabama from NDVI Data. Estuaries and Coasts 32: 496-507.

2008 Rodgers, J. C. III and Gamble, D. G. The Impact of Hurricane Frances (2004) on the Invasive Australian Pine (Casuarina equisetifolia L.) San Salvador Island, The Bahamas. Journal of the Torrey Botanical Society 135: 367-376.

2008 Peacock, E., Rodgers, J.C. III, Bruce, K. and Gray, J. Assessing the Pre-Modern Tree Cover of the Ackerman Unit, Tombigbee National Forest, North Central Hills, MS, Using GLO Survey Notes and Archaeological Data. Southeastern Naturalist 7: 245-266.

2007 Horn, S. P. and Rodgers, J. C. III. Pollen in the río Puerto Viejo, Costa Rica. Brenesia: 67: 1-7.

2007 Senkbeil J.C., Rodgers J.C. III, Sheridan S.C. The Sensitivity of Tree Growth to Air Mass Variability and the Pacific Decadal Oscillation in Coastal Alabama. International Journal of Biometeorology 51: 483 - 491.

2006 Rodgers, J. C. III, Gamble, D. G., McCay, D. H., and Phipps, S. Tropical cyclone signals within tree ring chronologies from Weeks Bay National Estuary and Research Reserve, Alabama. *Journal of Coastal Research* (In Press).

2004 Rodgers, J. C. III. The Distribution of Casuarinas on San Salvador Island.*Southeastern Geographer* 45: 222-238.

2003 Rodgers, J. C. III and Parker, K. C. Distribution of alien plant species in relation to human disturbance and environmental stress on the Georgia Sea Islands. *Diversity and Distributions* 9: 385-398.

2002 Rodgers, J. C. III. Effects of human disturbance on the dune vegetation of the Georgia Sea Islands, USA. *Physical Geography* 23: 79 – 94.

1998 Horn, S.P., Rodgers, J.C. III, Orvis, K.H., and Northrop, L.A. Recent vegetation and land use history form soil pollen analysis: testing the potential in the lowland humid tropics. *Palynology* 22: 167-180.

1997 Horn, Sally P., and Rodgers, J.C. III, 1996-1997. The northern limit of Alnus (Fagales) in Costa Rica: modern pollen evidence of a possible range extension. *Revista Biologia Tropical* 45(1): 609-611.

1996 Rodgers, J.C. III, and Horn, S.P. 1996. Modern Pollen Spectra from Costa Rica. *Paleogeography, Paleoclimatology, Paleoecology* 124: 53 - 71.

Service

2002 – 2004 College of Arts and Sciences Faculty Senate.
2002 – 2004 College of Arts and Sciences Scholarship Committee
2002 - 2004 Southeastern Division of Association of American Geographers Honors Committee.
2002-2003 Southeastern Division of Association of American Geographers World Geography Coach for Team Mississippi.

Professional Memberships

Association of American Geographers
Southeastern Division of the Association of American Geographers

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