

RICHARD G. LATHROP JR.

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EDUCATION:

1988 Ph.D. Environmental Monitoring University of Wisconsin-Madison
1986 M.S. Forestry University of Wisconsin-Madison
1981 B.A. Biology Dartmouth College

PROFESSIONAL EXPERIENCE:

1999-Present Director, Walton Center for Remote Sensing & Spatial Analysis, Rutgers University.
1995-2006 Associate Professor, Department of Ecology & Natural Resources, Rutgers University.
1989-1995 Assistant Professor, Department of Natural Resources, Rutgers University.
1988-1989 Research Scientist, TGS Technology Inc., Ecosystem Science and
Technology Branch, NASA/Ames Research Center, California.

5 Selected Recent Related Publications: ** Corresponding author

Lathrop, R.G., S.M. Haag, D. Merchant, M.J. Kennish and B. Fertig. 2014. Comparison of remotely-sensed surveys vs. In Situ Plot-based Assessment of Seagrass Condition in Barnegat Bay-Little Egg Harbor, New Jersey USA. *Journal of Coastal Conservation* 18:299-308.

Lathrop, R., L. Auermuller, J. Trimble, and J. Bognar. 2014. The Application of WebGIS Tools for Visualizing Coastal Flooding Vulnerability and Planning for Resiliency: The New Jersey Experience. *ISPRS Int J of Geo-Information* 3:408-429.

*La Puma I.P.**, R.G. Lathrop, N.S. Keuler. 2013. A large-scale fire suppression edge-effect on forest composition in the New Jersey Pinelands, *Landscape Ecology: Volume 28(9)*: 1815-1827.

Lathrop, R.G., L. Auermuller, S. Haag and W. Im. 2012. The StormWater Management Planning Tool: Coastal Water Quality Enhancement Through the Use of an Internet-based Geospatial Tools. *Coastal Management* 40(4):339-354.

*Zhang, Y.**, *Z. Miao,** J. Bognar, and R.G. Lathrop Jr.*** 2011. Landscape Scale Modeling of The Potential Effect of Groundwater-level Declines on Forested Wetlands in the New Jersey Pinelands. *Wetlands* 26:1112-1122. ***Corresponding author.

5 Additional Selected Recent Publications:

Lathrop, R.G.(editor). 2011. *The Highlands: Critical Resources, Treasured Landscapes*. Rutgers University Press, New Brunswick, NJ. 366 p.

Lathrop, R.G., L. Windham and P. Montesano. 2003. Does Phragmites Expansion Alter the Structure and Function of Marsh Landscapes? *Patterns and Processes Revisited*. *Estuaries* 28(2B):423-435.

Lathrop, R.G. and J.A. Bognar. 2001. Habitat Loss and Alteration in the Barnegat Bay Region. *Journal of Coastal Research* SI 32:212-228.

Lathrop, R.G., R. Styles, S. Seitzinger and J. Bognar. 2001. Use of GIS Mapping and Modeling Approaches to Examine the Spatial Distribution of Seagrasses in Barnegat Bay, New Jersey. *Estuaries* 24:904-916.

Lathrop, R.G., *M. B. Cole,** and *R.D. Showalter**. 2000. Quantifying the habitat structure and spatial pattern of New Jersey (USA) salt marshes under different management regimes. *Wetlands Ecology and Management* 8:163-172.

Professional Appointments:

Chair, New Jersey Pinelands Commission Science Advisory Board
 Past President, American Littoral Society
 Member, New Jersey Endangered and Nongame Wildlife Advisory Committee
 Member, Science Advisory Committee of the Jacques Cousteau NERR
 Member, Science and Technical Advisory Committee, Barnegat Bay Estuary Program

Synergistic Activities:

Dr. Lathrop's research program works to integrate insights of landscape ecology and geography with the application of geo-spatial information technology to improve our understanding of the structure and function of coupled human-environmental systems at broader landscape to regional scales. Working with partners, he attempts to translate that understanding into effective and appropriate techniques to improve 'on-the-ground' natural resource management and land use planning. Lathrop is presently serving as PI on several NOAA Coastal and Ocean Climate Applications (COCA) and SeaGrant funded projects that involve natural and social science multidisciplinary teams examining issues related to coastal vulnerability and resilience. Examples of ongoing project outcomes related to promoting coastal resilience include www.NJFloodMapper.org and www.NJADAPT.org.

Collaborators within the past 48 months

Lisa Auermuller, Scott Haag, Yang Zhang, Zewei Miao, Nick Skowronski, Ken Clark, Kristen Schwarz, Steward Pickett . Michael Kennish, Ben Fertig, Robin Leichenko , Melanie McDermott

Member of Graduate Faculty in Ecology & Evolution, Environmental Science, & Geography

Former Students (where I acted as major thesis advisor)

PhD.

Inga LaPuma (2012) Dept of Forest Science, U. Wisconsin-Madison (Post-doc)
 Tenley Conway (2003) Dept of Geography, U. of Toronto, Canada (Assoc Professor)
 Sangbum Lee (2003) Strategic Environment Assessment, Korea Environment Institute
 John Hasse (2002) Dept of Geography, Rowan University, Glassboro, NJ (Asst Professor)
 Denise Royle (2002) Conservation Management Inst. Virginia Tech U (Research Scientist)
 Marlene Cole (2001) Louis Berger Group, East Orange, NJ (Senior Env. Scientist)
 Sandra Luque (1996) Cemagref Research Institute, Grenoble France (senior researcher)
 Jian Ping Xu (1994) Computer Consulting, West Windsor, NJ

MS. David Smith (2012)	Scott Haag (2010)	Kathleen McCarthy (2009)
Carrie Ferwerda (2009)	Tenley Conway (2001)	Ralph Asplen (1999)
Xiaohang Liu, 1999)	Robert Marsh (2000)	John Hasse (1998)
Meg Holden (1998)	Suzanne Hess (1999)	Denise Royle (1996)
Kurt Neumiller (1997)	Chuck Colvard (1998)	Peter Maina (1996)
Pingnan Xiang (1995)	Lisa Marie Windham (1994)	

Summary: Past number of graduate students advised: 25
 Present number of advisees: 5

Own Graduate and Postdoctoral advisor

Thomas M Lillesand (MS and PHD) University of Wisconsin-Madison
 David L Peterson (Postdoc) NASA-Ames Research Center