



## PUBLICATION LIST

### PEER REVIEWED ARTICLES AND BOOK CHAPTERS

#### 2016

Grove, M.; Childers, D.L.; Chowdhury R. R.; Galvin, M.; Hines, S.; Muñoz-Erickson, T.A.; Svendsen, E. In press. Linking Science and Decision Making to Promote an Ecology for the City: Practices and Future Opportunities. *Ecosystem Health and Sustainability*

Muñoz-Erickson, T.A.; Campbell, L.; Childers, D.; Grove, M.G.; Iwaniec, D.I.; Pickett, S.; Romolini, M.; Svendsen, E. In press. Demystifying governance and its role for transitions in urban social-ecological systems. *Ecosphere*

Muñoz-Erickson, T.A.; Cutts, B. 2016. Structural Dimensions of Knowledge-Action Networks for Sustainability. *Current Opinion in Environmental Sustainability*. 18: 56-64

Meléndez-Ackerman, E.J.; Nytch, C.J.; Santiago, L.; Verdejo-Ortiz, J., Santiago- Bartolomei, R.; Ramos-Santiago, L.E.; Muñoz-Erickson, T.A. 2016. Synthesis of Household Yard Area Dynamics in the City of San Juan Using Multi-Scalar Social-Ecological Perspectives. *Sustainability* 8, 481; doi: 10.3390/su8050481

#### 2015

Muñoz-Erickson, T.A.; Lugo, A.E. 2015. The Urban Watershed and the City. *Corriente Verde* 6 (2): 3

Cutts, B.; Muñoz-Erickson, T.A.; Shatters, S. 2015. Public Representation in Water Management— a Network Analysis of Organization and Public Perceptions in Phoenix, AZ. *Society and Natural Resources* 28 (12):1340-1357

Santiago, L., Gladkikh, T., Betancourt, L., and Vargas, Y. 2015. Green versus Gray: Attitudes toward Vegetation in a Tropical Metropolitan Square. *Environment and Natural Resources Research* 5 (2): 109.

#### 2014

Cusack, D. F., and T.L. Mc Cleery. 2014. Patterns in understory woody diversity and soil nitrogen across native- and non-native-urban tropical forests. *Forest Ecology and Management* 318: 34; 43

García-Montiel, D., J. Verdejo-Ortíz, R. Santiago-Bartolomei, C. Vila, L. Santiago, E. Meléndez-Ackerman. 2014. Food sources and accessibility and waste disposal patterns across

an urban tropical watershed, implications for the flow of materials and energy. *Ecology and Society*. 19 (1): 37. <http://dx.doi.org/10.5751/ES-06118-190137>

Lugo, A. E. 2014. Tropical cities are diverse and deserve more social-ecological attention. *Ecology and Society* 19(3): 24. <http://dx.doi.org/10.5751/ES-06618-190324>

Lugo, A. E., Concepción, C. M., Santiago-Acevedo, L.E., Muñoz-Erickson, T.A., Verdejo Ortiz, C. J., Santiago-Bartolomei, R., Forero-Montaña, J., Nytch, C.J., Manrique, H., and Colón-Cortés, W. 2012. In search of an adaptive social-ecological approach to understanding a tropical city. *Acta Científica* 26.(1-3): 121-134

Meléndez-Ackerman, E. J., R. Santiago-Bartolomei, C. P. Vila-Ruiz, L. E. Santiago, D. Garcia-Montiel, J. C. Verdejo-Ortiz, H. Manrique-Hernández, and E. Hernandez-Calo. 2014. Socioeconomic drivers of yard sustainable practices in a tropical city. *Ecology and Society* 19(3): 20. <http://dx.doi.org/10.5751/ES-06563-190320>

Méndez-Lázaro, P., J. J. Terrasa-Soler, C. Torres-Peña. P. Guzmán-González, S. Rodríguez, M. Alemán, T. Seguinot. 2014. Tourism and climate conditions in San Juan, Puerto Rico (2000-2010). *Ecology and Society*. 19 (2): 11 <http://dx.doi.org/10.5751/ES-06380-190211>

Méndez-Lázaro, P., A. Nieves-Santiago, and Julieanne Miranda-Bermúdez. 2014. Trends in total rainfall, heavy rain events, and number of dry days in San Juan-Puerto Rico (1955-2009). *Ecology and Society* 19(2): 50. <http://dx.doi.org/10.5751/ES-06464-190250>

Muñoz-Erickson, T. A. 2014. Co-production of knowledge-action systems in urban sustainable governance: the KASA approach. *Environmental Science and Policy*. 37: 182-191

Muñoz-Erickson, T. A. 2014. Multiple pathways to sustainability in the city: the case of San Juan, Puerto Rico. *Ecology and Society* 19( 3): 2. <http://dx.doi.org/10.5751/ES-06457-190302>

Muñoz-Erickson, T. A., A. E. Lugo, and B. Quintero. 2014. Emerging synthesis themes from the study of social-ecological systems of a tropical city. *Ecology and Society* 19(3): 23. <http://dx.doi.org/10.5751/ES-06385-190323>

Muñoz-Erickson, T.A.; Lugo, A.E.; Meléndez-Ackerman, E.; Santiago-Acevedo, L.E.; Seguinot-Barbosa, J.; Méndez-Lázaro, P.; Hall, M.; Quintero, B.; Ramírez, A.; García-Montiel, D.; Pontius Jr., R.; Ramos-González, O. M.; Santiago-Bartolomei, R.; Verdejo-Ortiz, J.; Ortiz-Zayas, J. R.; Concepción, C. M.; Cusack, D.; Giusti, J.; McDowell, W.; Cruz-Torres, M.L.; Vallejo, J.; Cray, L.; Zimmerman, J.; Cuadrado-Landrau, V.; and Figueroa, M. 2014. Knowledge to Serve the City: Insights from an Emerging Knowledge-Action Network to Address Vulnerability and Sustainability in San Juan, Puerto Rico, *Cities and the Environment* (CATE): Vol. 7: Iss. 1, Article 5. Available at: <http://digitalcommons.lmu.edu/cate/vol7/iss1/5>

Potter, J. D., W. H. McDowell, M. L. Daley, and A. M. Helton. 2014. Incorporating urban infrastructure into biogeochemical assessment of urban tropical streams in Puerto Rico. *Biogeochemistry*.

Ramírez, A., K. G. Rosas, A. E. Lugo, and O. Ramos Gonzalez. 2014. Spatio-temporal variation in stream water chemistry in a tropical urban watershed. *Ecology and Society*. 19(2):

45. <http://dx.doi.org/10.5751/ES-06481-190245>

Ramos-González, O. M. 2014. The green areas of San Juan, Puerto Rico. *Ecology and Society* 19(3): 21. <http://dx.doi.org/10.5751/ES-06598-190321>

Ramos-Santiago, L., Villanueva-Cuvero, L., Santiago, L. and Rodríguez, Y. 2014. Green Area Loss in San Juan's Inner-Ring Suburban Neighborhoods: a Multidisciplinary Approach to Analyzing Green/Gray Area Dynamics. *Ecology and Society*, 19(2): 4. <http://dx.doi.org/10.5751/ES-06219-190204>

Santiago, L., J. C. Verdejo-Ortiz, R. Santiago-Bartolomei, E. Meléndez-Ackerman, and D. García-Montiel. 2014. Uneven Access and Underutilization of Ecological Amenities in Urban Parks of the Rio Piedras Watershed. *Ecology and Society*. 19 (1): 26 <http://dx.doi.org/10.5751/ES-06180-190126>

Vila-Ruiz, C. P., E. Melendez-Ackerman, R. Santiago-Bartolomei, D. Garcia-Montiel, L. Lastra, C. E. Figuerola, and J. Fumero-Caban. 2014. Plant species richness and abundance in residential yards across a tropical watershed: implications for urban sustainability. *Ecology and Society* 19(3): 22. <http://dx.doi.org/10.5751/ES-06164-190322>

## 2013

Gutiérrez-Fonseca, P.E., K.G. Rosas, & A. Ramírez. 2013. Aquatic insects of Puerto Rico: a list of families. *Dugesiana* 20(2): 215-219

## 2012

Cusack, D. F. 2012. Soil nitrogen levels are linked to decomposition enzyme activities along an urban-remote tropical forest gradient. *Soil Biology & Biochemistry*. 57: 192-203.

Lugo, A. E. 2012. Social silviculture: a new paradigm in the search for sustainable land conservation in the tropics? *Bois Et Forest Des Tropique*, N 314 (4).

Lugo, A.E., O. M. Ramos Gonzalez, and C. Rodriguez Pedraza. 2011. *The Río Piedras watershed and its surrounding environment*. USDA Forest Service General Technical Report. USDA Forest Service, International Institute of Tropical Forestry, Rio Piedras PR. 46p

Méndez-Lázaro, P., A. Nieves-Santiago, S. Delgado-Rivera, P. Prieto-Pulido, J. Miranda Bermúdez. 2012. Efecto del cambio climático en los patrones de lluvia en San Juan, Puerto Rico: Últimas décadas del S. XX, principios del S. XXI.. *First Latin American congress on Urban Ecology: Challenges and Scenarios for the Development of Latin American cities*. Docuprint S. A. Tacuari 123. Buenos Aires, Argentina.

Méndez-Lázaro, P., A. Nieves-Santiago, S. Delgado-Rivera, P. Prieto-Pullido, J. Miranda-Bermúdez. 2012. Precipitation analysis of the San Juan metropolitan area. *First Latin American Congress on Urban Ecology: Challenges and Scenarios for the Development of American Cities*. Docuprint S. A. Tacuari 123. Buenos Aires, Argentina.

Muñoz-Erickson, T. A. 2012. Building an urban ecology site in San Juan, Puerto Rico: where do we start? Retrieved <http://sanjuanultra.org/engagement/> (Accessed 7/2/2014)

Ramírez, A., A. Engman, K. G. Rosas, O. Pérez-Reyes, and D. M. Martinó. 2012. Urban impacts on tropical island streams: some key aspects influencing ecosystem response. *Urban Ecosystems* 15. p. 315.

## 2011

Seguinot J. and R. Hernández. 2011. Methodology for a Socio-ecological sampling in the Rio Piedras Watershed, San Juan, Puerto Rico. *La Innovación Geotecnológica*. p. 13, vol. 1, ISBN: 978-607-00-4387-1

## THESIS AND DISSERTATIONS

Cornell, L. 2014. *Assessment and Modeling of Hydrologic Response to Urbanization in the Rio Piedras Watershed, San Juan, PR: Applying a socio-ecological framework using the Integrated Assessment Toolbox*. State University of New York.

Hernández, R. 2012. *Recreation and health at the Río Piedras River Watershed*. University of Puerto Rico, Medical Science Campus.

Manrique, H. 2013. *Assessing riparian structure and composition in Quebrada Chiclana, Puerto Rico, a restored tropical creek*. University of Puerto Rico, Río Piedras.

Muñoz-Erickson, T. A. 2012. *How cities think: knowledge-action systems analysis for urban sustainable governance in San Juan, Puerto Rico*. Arizona State University. □

Santiago-Bartolomei, Raúl. 2012. Riparian and pluvial restoration of the Rio Piedras and its tributaries: a collaborative framework in the management of ecosystem services. University of Puerto Rico, Río Piedras.

## REPORTS, WHITE PAPERS AND OUTREACH PUBLICATIONS

Cornell, L., T. A. Muñoz-Erickson and M. Hall. 2012. *Stakeholder identified areas of conservation value in the Río Piedras watershed*. San Juan ULTRA Report.

Méndez-Lázaro P., 2011. Manejo integrado de recursos hídricos y zonas costeras: Cambios en los usos del suelo y los impactos hidrológicos, *Bulletin for the International Network for Coastal Management*, p.1 , vol.5.

Muñoz-Erickson, T. A., A. E. Lugo, M. Figueroa and O. Ramos. 2008. Meeting Report: Setting an Interdisciplinary Research Agenda for San Juan ULTRA. International Institute of Tropical Forestry: San Juan, Puerto Rico

Muñoz-Erickson, T. A., L. Cornell, M. Cruz-Torres, V. Cuadrado, D. Cusack, D. García-Montiel, J. Guisti, M. Hall, C. Hall, A. E. Lugo, W. H. McDowell, E. Meléndez-Ackerman, E. Meléndez Colom, P. Méndez Lazaro, J. Ortiz-Zayas, R. Pontius, B. Quintero, A. Ramírez, O. Ramos, L.

Ramos, L. E. Santiago, B. Santiago-Bartolomei, J. Seguinot-Barbosa, J. Verdejo, L. Villanueva. J. Zimmerman. 2011. *San Juan ULTRA-Ex: Social-Ecological System Change, Vulnerability, and the Future of a Tropical City*. Final Year 1 Report to the National Science Foundation.

Muñoz-Erickson, T. A., L. Cornell, M. Cruz-Torres, C.M. Concepción, V. Cuadrado, D. Cusack, D. García-Montiel, J. Guisti, M. Hall, C. Hall, A. E. Lugo, W. H. McDowell, E. Meléndez-Ackerman, E. Meléndez Colom, P. Méndez Lazaro, J. Ortíz-Zayas, R. Pontius, B. Quintero, A. Ramírez, , L. Ramos, O. Ramos, L. E. Santiago, B. Santiago-Bartolomei, J. Seguinot-Barbosa, J. Vallejo, L. Villanueva, J. Zimmerman. 2011. *San Juan ULTRA-Ex: Social-Ecological System Change, Vulnerability, and the Future of a Tropical City*. 2012. Year 2 Report to the National Science Foundation.

Muñoz-Erickson, T. A., L. Cornell, M. Cruz-Torres, C. M. Concepción, V. Cuadrado, D. Cusack, D. García-Montiel, J. Guisti, M. Hall, C. Hall, A. E. Lugo, W. H. McDowell, E. Meléndez-Ackerman, E. Meléndez Colom, P. Méndez Lazaro, J. Ortíz-Zayas, R. Pontius, B. Quintero, A. Ramírez, L. Ramos, O. Ramos, L. E. Santiago, B. Santiago-Bartolomei, J. Seguinot-Barbosa, J. Vallejo, L. Villanueva, J. Zimmerman. 2013. *San Juan ULTRA-Ex: Social-Ecological System Change, Vulnerability, and the Future of a Tropical City*. 2013. Year 3 Report to the National Science Foundation.

Muñoz-Erickson, T.A.; Branoff, B.; Flores, D.; Lugo, A.E.; Méndez Lazaro, P.; Meléndez-Ackerman, E.; Ramírez, A.; Ramos, O.; Santiago, L.E.; Vallejo, J.; Martinuzzi, S.; Nytch, C.; Ramsey, M.; Olivero, S. 2015. *San Juan ULTRA: Social-Ecological System Change, Vulnerability, and the Future of a Tropical City – Yearly Report (2014-2015)*. USDA Forest Service, International Institute of Tropical Forestry. Río Piedras, Puerto Rico.

San Juan ULTRA – Buletín 1. Resumen del plan de investigación de San Juan ULTRA.

San Juan ULTRA – Buletín 2: Ciencia colaborativa: la clave está en la colaboración.

Seguinot-Barbosa, J., 2011. Vulnerabilidad a la escasés de agua, inundaciones y ascenso del nivel del mar en la Cuenca del río Piedras. *Ibermar, Bulletin for the International Network for Coastal Management*, p.2 , vol.5.