

Lisa M. Auermuller

Assistant Manager

Jacques Cousteau National Estuarine Research Reserve

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Professional Preparation

- Southampton College of Long Island University, Southampton, NY, Bachelor of Science – Marine Biology, 1999
- University of North Carolina at Chapel Hill, Chapel Hill, NC, Masters of Science – Marine Chemical Ecology, 2001

Appointments

January 2002 – Present – Assistant Manager and Coastal Training Program Coordinator, Jacques Cousteau National Estuarine Research Reserve (JC NERR), Tuckerton, NJ

Publications

- Kopp, R.E., A. Broccoli, B. Horton, D. Kreeger, R. Leichenko, J.A. Miller, J.K. Miller, P. Orton, A. Parris, D. Robinson, C.P. Weaver, M. Campo, M. Kaplan, M. Buchanan, J. Herb, L. Auermuller and C. Andrews. 2016. Assessing New Jersey's Exposure to Sea-Level Rise and Coastal Storms: Report of the New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel. Prepared for the New Jersey Climate Adaptation Alliance. New Brunswick, New Jersey.
- Kaplan, M., M. Campo, L. Auermuller, and J. Herb. 2016. Assessing New Jersey's Exposure to Sea-Level Rise and Coastal Storms: A Companion Report to the New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel Report. Prepared for the New Jersey Climate Adaptation Alliance. New Brunswick, NJ: Rutgers University.
- Lathrop, Richard, L. Auermuller, J. Trimble and J. Bogнар. 2014. The Application of WebGIS Tools for Visualizing Coastal Flooding Vulnerability and Planning for Resiliency: The New Jersey Experience. ISPRS Int. J. Geo-Inf., 3, 408-429.
- New Jersey Climate Adaptation Alliance (NJCAA). 2013. Stakeholder Engagement Report: Coastal Communities. Climate Change Preparedness in New Jersey. Edited by Lisa Auermuller and Tony MacDonald. New Brunswick, New Jersey: Rutgers University.
- 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.

Skills and Abilities

- Building working groups, planning teams and collaborative partnerships best suited to an individual environmental management need.
- Conducting stakeholder and organizational needs assessments.
- Conducting market and institutional analyses of existing training, science translation and information providers in order to identify needs and gaps
- Designing and developing strategic planning processes.
- Providing facilitation services for meetings, training workshops, or conferences.
- Designing, conducting and analyzing pre- and post- surveys and evaluations of trainings, workshops, conferences and events.

Synergistic Activities

As the Watershed Coordinator for the Jacques Cousteau National Estuarine Research Reserve (JC NERR) my role includes assessing the needs of coastal decision makers and assembling training opportunities through JC NERR's Coastal Training Program. These programs are designed to provide decision makers with actionable research. Most recently, my primary areas of focus have been climate change, sea level rise, and coastal community vulnerability as they relate to community resilience. I have been worked with a variety of partners to develop tools and protocols to help communities understand their risks, plan for those risks and put adaptation measures into place. My work combines natural and social science aspects of the coastal decision making process. Examples of this work include:

- Overseeing a team of Resilient Coastal Community specialists as they preform hands technical assistance with New Jersey municipalities as part of the Getting to Resilience process. Through this facilitated municipal assessment process, communities can reduce vulnerability and increase preparedness by linking planning, mitigation, and adaptation. Final recommendation reports are written that review vulnerabilities to storm surge and sea level rise, municipal specific resilience opportunities and challenges and recommendations for improving resilience.
- Partnering with a large number of diverse partners to enhance community resilience through an online website called "Getting to Resilience". This website allows municipalities to take their sea level rise and folding risk analysis) and pair it with existing planning documents that are already required as a function of their municipality. The website will correlate "resilient activities" with "points" through programs such as FEMA's Community Rating System and Hazard Mitigation Plan rewriting and the Sustainable Jersey program;
- Facilitating a coastal community stakeholder engagement process is part of a larger process being undertaken by the New Jersey Climate Adaptation Alliance. Input from coastal community stakeholders to solicit input from stakeholders was used in order to formulate public policy recommendations that will enhance climate change preparedness in New Jersey;
- Leading Federal Emergency Management Agency's (FEMA) the Region II Coastal Outreach Advisory Team (COAT) in facilitating a dialogue between coastal outreach professionals and FEMA on behalf of their map update process. The members of the COAT are encouraged to provide feedback on FEMA's progress, messaging and outreach tactics and in turn she transfers information from FEMA to the COAT partners.
- Assisting Ocean and Monmouth counties in New Jersey to write their multi-jurisdictional hazards mitigation plans and long-term recovery plans, taking into account future risks such as climate change and sea level rise.

Professional Affiliations and Roles

- **Vice President, National Estuarine Research Reserve Association**
- **Chair, FEMA Region II Coastal Outreach Advisory Team**
- **Advisory Committee and Communications and Education Committee Member, Barnegat Bay Partnership**

Recent Grant Funding: Principal Investigator

- "Enhancing the NJ Coastal Management Program Priorities – Source of Support is NOAA - \$150,000
- "Enhancing the NJ Coastal Management Program Priorities – Source of Support is NOAA
- "New Jersey Department of Environmental Protection (NJDEP) Cooperating Technical Partner (CTP)" – Source of Support is FEMA - \$101,852
- "Extension of NJ Resilient Coastal Communities "– Source of Support is NJ DEP Coastal Management Program
- "Enabling linkages to climate change and ecosystem management: facilitating collaboration and access to long-term fishery and environmental data" – Source of Support is NOAA – NERRS Science Collaborative - \$425,104

Recent Grant Funding: Partnership Projects with Other Principal Investigators

- "NRT Traineeship: Coast Climate Risk and Resilience (C2R2)" – Rutgers University Faculty and Staff – Total Award Period: 9/1/2016 – 8/31/2021
- "New Jersey Fostering Regional Adaptation through Municipal Economic Scenarios (NJ FRAMES)" – Partnership with the NJ DEP Coastal Management Program, Rutgers University Bloustein School of Public Policy and Planning and the Louis Berger Group - Total Award Period: 5/1/2016-2/28/2019
- "Assessing Municipal Decision Maker Use of Science-Based Data in Local Decision Making "– Partnership with the New Jersey Climate Adaptation Alliance, Funded through the Kresskge Foundation - Total Award Period – 6/1/2015 – 5/31/2016
- "Assessing the Needs in New York and New Jersey for NOAA's Mid-Atlantic Coastal Storms Program "– Total Award Period: 7/1/2015 – 6/31/2016
- New Jersey Resilient Coastal Communities Initiative" - Partnership with the Rutgers University Bloustein School of Public Policy and Planning and the NJ DEP Coastal Management Program - Total Award Period: 6/1/2014-6/30-2016
- "They had the facts, why didn't they act? Understanding and improving public response to National Weather Service's coastal flood forecast" – Partnership with the Nurture Nature Center and the New York, New Jersey and Connecticut Sea Grant Coastal Storm Awareness Program – Total Award Period: 1/1/2014 – 4/30/2015
- "Enhancing the Effectiveness of Decision Support Tools for Coastal Resilience" – Partnership with Rutgers Center for Remote Sensing and Spatial Analysis and the NJ Sea Grant Program – Total Award Period - 1/1/2015 – 12/31/2016