

January 20, 2009



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Dear Dr. Fish:

By this letter we notify you of the University of Rhode Island's wishes to renew our role as lead institution in the North Atlantic Coast Cooperative Ecosystem Studies Unit (NAC-CESU). Furthermore, we have received notification from all of our non-federal partners (University of Massachusetts-Amherst, Rutgers University, University of Maryland at Eastern Shore, Stony Brook University, City University of New York, State University of New York College of Environmental Science and Forestry, College of the Atlantic, University of Maine, and Maryland Coastal Bays Program) of their eagerness to remain in the NAC-CESU network. Columbia University Earth Institute has requested to be a partner of the NAC-CESU and all our members support this addition. We are in the process of amending the NAC-CESU agreement to include their participation.

Please find enclosed the CESU self assessment report for 2004-2008. As you will see, the NAC-CESU has been extremely active during this period and we look forward to continuing the NAC-CESU for another 5 years. Our membership has expanded in the number of federal and non-federal partners, and the diversity of projects in natural and cultural resource management is truly spectacular.

The NAC-CESU received the 2008 CESU Network National Award for its multidisciplinary and multi-institutional work on shoreline dynamics on the Fire Island National Seashore and Gateway National Recreation Area. We are very proud of this prestigious acknowledgement of our research and it is testament to the strong spirit of collaboration we have among our partners.

Please contact us if you have any questions.

Sincerely,

Peter V. August, Ph.D.  
Director, URI Coastal Institute  
URI CESU Representative

Donald H. DeHayes, Ph.D.  
Provost and Vice President for  
Academic Affairs

**NORTH ATLANTIC COAST  
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**SELF-ASSESSMENT FOR THE PERIOD OF 2004 TO 2008  
JANUARY 2009**



**THE  
UNIVERSITY  
OF RHODE ISLAND**



**North Atlantic Coast – Cooperative Ecosystem Studies Unit  
(NAC-CESU)  
Self-Assessment for the period 2004 to 2008**

***CESU Academic Partners***

*University of Rhode Island (Host University)*  
*City University of New York*  
*College of the Atlantic*  
*Maryland Coastal Bays Program*  
*Rutgers – The State University of New Jersey*  
*State University of New York – College of Environmental Science and Forestry*  
*Stony Brook University*  
*University of Maine*  
*University of Maryland – Eastern Shore*  
*University of Massachusetts- Amherst*

***CESU Federal Agency Partners***

*Natural Resources Conservation Service*  
*National Park Service*  
*U.S. Army Corps of Engineers*  
*U.S. Geological Survey*

**Prepared by:**

University of Rhode Island (Host University)

**January 2009**

The reader of this self-assessment is encouraged to visit the website for the North Atlantic Coast Cooperative Ecosystem Studies Unit (NAC-CESU).

<http://www.ci.uri.edu/naccesu/>

**Introduction:**

The North Atlantic Coast Cooperative Ecosystem Studies Unit (NAC-CESU) was established by cooperative agreement in June 1999, with University of Rhode Island (URI) as the host university, University of Maryland Eastern Shore as a partner university, and two participating federal agencies: National Park Service (NPS) and USGS. Over the past decade this program has grown substantially, and now consists of nine academic institutions, one non-profit organization, and four federal agencies. The NAC-CESU cooperative agreement was renewed in June 2004 following the successful review of a self-assessment document submitted by the host university and academic partners.

Now in early 2009, the NAC-CESU has prepared another 5-year self-assessment document for the period of 2004 to 2008. According to guidance provided by the CESU National Network office, this self-assessment is intended to be brief. Readers of this self-assessment are encouraged to visit the NAC-CESU website (<http://www.ci.uri.edu/naccesu/>) for more detailed information on the CESU program. The NAC-CESU website lists and summarizes most of the research, technical assistance, and education projects underway through the NAC-CESU. Background documents referenced in this self-assessment are included on the website along with information on the NAC-CESU university partners and agencies.

**Criterion 1: Were the formal commitments identified in the CESU agreement (and amendments) fulfilled?**

*1) Did the host university and partner institutions conduct with participating federal agencies a program of research, technical assistance, and education related to the CESU objectives?*

From 2004 to 2008 the NAC-CESU has worked with 53 principal investigators of the partner and federal agencies on 91 different natural resource-related research, technical assistance, and education programs representing \$5.61 million of federal funding. During the same period, an additional 19 projects, headed by 13 principal investigators, totaling \$701,644 have been funded to support cultural resource initiatives. Appendix 2 provides details on all projects that have been supported, including identification of the funding agency and individual project funding amount.

In June 2008, the NAC-CESU received the distinguished CESU National Network Award demonstrating collaboration among federal agencies and academic partners toward the accomplishment of outstanding science, technical assistance, and graduate education to support natural resource decision-making. The award recognized over 30 scientists, managers, students, and research associates from the National Park Service, USGS, University of Rhode Island, and Rutgers University, who all successfully worked together to study coastal shoreline processes at Fire Island National Seashore and Gateway National Recreation Area.

*2) Did the host university and partner institutions develop and adopt with participating federal agencies a CESU role and mission statement?*

The Role and Mission statement for the NAC-CESU was prepared in 1999 by the founding university institutions (URI and University of Maryland Eastern Shore) and federal agencies (NPS and USGS). It was revised in 2003 to include sections on the emerging role of the NAC-CESU in cultural resource disciplines. The Role and Mission statement as revised in 2003 (Appendix 1) remains current and valid, although new academic partners have been added.

The Role and Mission Statement describes the purpose of the CESU, identifies the biogeographic scope of the NAC-CESU (i.e., coastal habitats and watersheds from Maine to Virginia), lists the coastal issue-oriented focus of the CESU, summarizes the research, technical assistance and cooperative education mission, and presents fundamental administrative procedures and roles of the host and partner institutions, Managers Committee, and agencies.

*3) Did the host university and partner institutions develop and adopt with participating federal agencies a multi-year CESU strategic plan?*

In January 2000 the NAC-CESU convened a 1-day meeting with more than 25 representatives from partner academic institutions, federal agencies, and potential federal agency partners to develop a Strategic Vision for the CESU. This strategic planning document identifies the priority research themes of the NAC-CESU (nutrient enrichment and contaminants, landscape ecology and maintenance of habitat diversity, restoration ecology, coastal geomorphic processes, monitoring and modeling long-term change, natural and cultural resources and heritage). Outreach themes identified in the strategic plan include data and information exchange and education programs. This planning document has guided the definition of research, technical assistance, and education topics supported by NAC-CESU funding. As with the Mission Statement, the Strategic Vision Statement was revised in 2003 to reflect the cultural resource components of the CESU and addition of new university partners.

*4) Were periodic meetings of the CESU convened for the purpose of collaboration and coordination of CESU activities?*

Annual meetings were held for the NAC-CESU and attendees included representatives from the participating universities, federal agencies, and other institutions. In January 2004 the annual meeting was held at the University of Rhode Island; in April 2005 at the University of Maryland Eastern Shore; in November 2006 at Cape Cod National Seashore; and in May 2008 the annual meeting was held at Gateway National Recreation Area.

The NAC-CESU actively participated in all of the CESU National Network Meetings held in Washington, D.C. that were convened during the 2004 to 2008 assessment period.

- June 2008: NAC-CESU received national award from the CESU National Coordinating Council; NAC-CESU coordinated and chaired a session on CESU participation in ocean stewardship; University of Rhode Island, National Park Service, USGS, Natural

Resources Conservation Service, and U.S. Army Corps of Engineers attended the CESU National Network Meeting.

- June 2005: NAC-CESU funded project at Assateague Island National Seashore was featured in a plenary talk; University of Rhode Island, University of Maryland-Eastern Shore, National Park Service, Natural Resources Conservation Service, and USGS attended the CESU National Network Meeting.

*5) Did the host university and partner institutions develop with participating federal agencies annual work plans to guide the activities of the CESU?*

The NAC-CESU does not have a formal “annual work plan” planning process among the partners of the NAC-CESU. However, at our annual managers meetings new directions and goals for the coming year are identified (e.g., invitation of new partners, strategies to enhance education opportunities, etc.) and pursued.

The recent NAC-CESU annual meetings included focused discussions on particular themes: November 2006 meeting discussed collaboration opportunities between the CESU and NPS park based research centers, while the May 2008 meeting focused on ocean stewardship.

The National Park Service, one of the federal agency partners within the NAC-CESU, produces an annual summary of NPS-related CESU activities.

*6) Were students encouraged to participate in the activities of the CESU?*

In fall 2008 all North Atlantic Coast CESU project investigators were sent a brief questionnaire requesting information on products derived from CESU supported projects including student involvement, theses/dissertations, professional journal publications, technical reports, and professional presentations/posters. Questionnaires were sent to 41 senior investigators on 83 projects during the 2004 to 2008 assessment period. Although only 52% of the investigators responded, representing 62% of the funded projects, the involvement of students, both graduate and undergraduate, was substantial. Below are some highlights of student involvement in NAC-CESU related research from 2004 to 2008 (a full list of theses/dissertations, publications, and presentations are given in Appendix 3):

- Six graduate students have earned or are working toward a Ph.D. degree, to result in a dissertation supported by a NAC-CESU project.
- Seventeen graduate students have earned or are working toward a M.S. degree, to result in a thesis supported by a NAC-CESU project.
- In addition, one postdoctoral candidate, twenty-four graduate students, and thirteen undergraduate students were supported (but not directly related the theses work) by NAC-CESU projects.
- Students were the senior authors for 12 manuscripts and were authors on several additional manuscripts published in peer-reviewed journals.
- Graduate students were the primary authors on 30 presentations given at scientific conferences.
- Undergraduates were the primary authors for 3 presentations given at scientific

conferences.

*7) Did the host university and partner institutions offer educational and training opportunities to participating federal agencies' employees?*

The NAC-CESU supported several educational and training opportunities to federal employees; examples include:

- NY/NJ Bight Oceans Initiative: A Workshop to Create a Seamless Network of Protected Shores, hosted by the National Park Service and Rutgers University (May 2008)
- Information Theoretic Model Selection and Multimodel Inference in Science and Management; A Training Workshop, hosted by the University of Rhode Island (March 2007)
- Ocean Stewardship Seminar hosted by the Stony Brook University (May 2007)
- Training session in the multivariate statistical software package PRIMER-E, hosted by the University of Rhode Island (June 2005).
- A Media Communication Workshop for National Park Service Staff hosted by the University of Rhode Island (October 2005).
- Applied Statistics Workshop for Coastal Parks in the Northeast hosted by Acadia National Park and the University of Rhode Island (June 2005).
- Applied Statistics Workshop for Coastal Parks in the Northeast hosted by Gateway National Recreation and the University of Rhode Island (December 2004).
- GIS metadata training by the Environmental Data Center at the University of Rhode Island (several training sessions from 2004 to 2008).
- GPS SWAT Team training sessions in the operation of GPS hardware and assistance with mapping features within federal lands (several training sessions from 2004 to 2008).

*8) Did the host university provide basic administrative and clerical support, access to campus facilities, suitable office space and basic services for federal agencies' personnel to be located at the host university?*

The University of Rhode Island provides offices, administrative and clerical support, and access to university facilities (e.g., labs, libraries) to scientists in residence from the NAC-CESU federal partners. Currently, URI hosts 4 NPS resident scientists full-time, 1 NPS scientist part-time, and 2 USGS resident scientists. These scientists are fully integrated into the academic environment of the university. They have status as “professor-in-residence” or adjunct faculty, thereby serving as major professors for graduate students (with professor in residence appointments), serving on graduate student committees, and participating in all activities of their respective academic departments (i.e., Graduate School of Oceanography, Department of Natural Resources Science, Department of Plant Sciences, and Department of Geosciences).

The host university also allows NPS scientists at park units to access university library search and interlibrary loan capabilities.

*9) Did the host university coordinate activities, as appropriate, with the partner institutions and develop administrative policies for such coordination?*

University of Rhode Island, as the host, plans and coordinates the NAC-CESU annual meetings and actively participates in the biannual CESU National Network meetings. The host University provides travel stipends for academic partners to attend the NAC-CESU annual meeting when they require financial assistance. There is frequent email correspondence with agency and non-federal partners regarding addition of new partners. The host university maintains the NAC-CESU web site (<http://www.ci.uri.edu/naccesu/>). The host has developed procedures for accepting new members and corresponds with all prospective members on behalf of the NAC-CESU.

*10) Did the host university establish a CESU Managers Committee and convene annual meetings?*

The NAC-CESU established a CESU Managers Committee and convened annual meetings as detailed in the above responses to Questions 4 and 9.

**Criterion 2: Were the projects successfully completed, and was there effective delivery of relevant and high quality project results to managers, consistent with the mission of the CESU?**

*1) Were projects conducted successfully, with all project deliverables accepted by collaborating federal agency(s) providing project funds?*

All of the completed NAC-CESU projects have been successful and their deliverables have been made and accepted by collaborating Federal partners. Many NAC-CESU research projects are in progress. A comprehensive list of NAC-CESU projects (completed and ongoing) can be found at the NAC-CESU website and is also presented in Appendix 2. Additionally the success of NAC-CESU supported projects is represented by the substantial number of publications in peer-reviewed scientific journals, reports, and presentations at scientific meetings. A list of these products is presented in Appendix 3.

*2) Were some projects unsuccessful, with project deliverables rejected by collaborating federal agency(s) providing project funds?*

All final products submitted by investigators have been accepted.

*3) Did the host university and partner institutions provide effective delivery of relevant and high quality project quality results to managers, consistent with the mission of the CESU?*

The NAC-CESU has used a variety of methods to convey the results of research projects to resource managers. These included publications in peer reviewed journals, reports, presentations to resource managers at their field locations, presentations at national/international conferences,



workshops, and development of a comprehensive and informative NAC-CESU website ([www.ci.uri.edu/naccesu/](http://www.ci.uri.edu/naccesu/)). A list of these products is presented in Appendix 3.

**Criterion 3: Was there involvement of the partner institutions as appropriate in the activities and projects of the CESU?**

*1) Did partner institutions participate in activities of the CESU?*

All of the partner institutions have attended training workshops, annual NAC-CESU meetings, CESU National Network meetings, and/or strategic planning sessions.

*2) Did partner institutions participate in projects of the CESU?*

Since 2004 a total of 110 projects have been supported with funding from the National Park Service, USGS, and the USDA Natural Resources Conservation Service. The U.S. Army Corps of Engineers is a recent member and is in the process of obligating funds. Number of projects and total funding support obligated to each partner institution is provided below. State University of New York College of Environmental Science and Forestry, City University of New York, and College of the Atlantic are recent additions to the NAC-CESU, thus few projects have been initiated with them to date.

University	Number of Projects	Total Support
City University of New York	1	\$29,955
Rutgers University	12	\$921,116
State University of New York College of Environmental Science and Forestry	3	\$135,630
Stony Brook University	7	\$661,470
University of Maine	9	\$516,669
University of Maryland Eastern Shore	2	\$50,381
University of Massachusetts, Amherst	15	\$621,268
University of Rhode Island	61	\$3,396,446

The NAC-CESU provides a mechanism for collaboration among universities. Some highlights of this multi-institutional involvement include:

- Collaboration on Natural Resource Condition Assessments for the National Park Service by the University of Maine, University of Rhode Island, Stony Brook University, and USGS.
- Development of Visitor Use Models for the National Park Service with investigators from University of Rhode Island and Arizona State (Colorado Plateau CESU).

**Criterion 4: Did the CESU facilitate collaboration and substantial involvement among its federal agency partners?**

Since 2004, two new federal agency partners have joined the NAC-CESU (Natural Resources Conservation Service and U.S. Army Corps of Engineers). Administrative paperwork is currently being processed to add U.S. Fish and Wildlife Service as a new federal agency partner.

National Park Service, USGS, Natural Resources Conservation Service personnel have been actively involved in individual research, technical assistance, and outreach/education projects. Each CESU project has a federal scientist or manager as a primary contact who facilitates technical collaboration between the agency and university cooperators. For all projects, federal personnel serve as technical collaborators, providing active participation with university investigators and students in study plan design, field data collection, data analysis and interpretation, report preparation, professional publication, and/or other tasks. An example of multiple agency collaboration, facilitated by the NAC-CESU network, the National Park Service, U.S. Army Corps of Engineers, University of Rhode Island, and Rutgers University participated in a workshop to evaluate Inlet Breach Management at Fire Island National Seashore. The workshop was hosted by the NAC-CESU (September 2006).

## Appendix 1

### Role & Mission Statement

#### **Introduction: CESUs: A New University-Federal Collaborative**

The North Atlantic Coast Cooperative Ecosystem Studies Unit (NAC-CESU) was established in June 1999 by cooperative agreement between agencies of the Department of the Interior (National Park Service and USGS Biological Resources Division) and the University of Rhode Island, with its partner institution, University of Maryland Eastern Shore. In subsequent years the NAC-CESU has expanded to include Rutgers University, the University of Massachusetts at Amherst and Stony Brook University as academic partners. Maryland Coastal Bays Program has also joined the NAC-CESU. In addition, the mission of the NAC-CESU now includes a strong focus on the study and management of cultural resources, as well as the initial natural resource interests.

The North Atlantic Coast CESU is part of a national network of biogeographic programs being established to provide research, technical assistance, and education to federal land management, environmental and research agencies. CESUs will generate collaborations among federal managers and policy-makers, federal researchers, and the academic community. Each partner brings a different perspective and wealth of technical knowledge allowing for the development of new, innovative and creative solutions to the myriad of environmental, cultural and social issues that confront our nation's ecosystems. Host universities are selected by a highly competitive process insuring that each CESU is founded on scientific excellence. To date, 16 CESUs have been established across the continental United States, Alaska, and the Caribbean.

#### **Biogeographic Scope and Issues-Oriented Focus of the North Atlantic Coast CESU**

The geographic scope of the CESU includes the North Atlantic coastal zone from Maine to the Chesapeake Bay in Virginia. CESU activities will encompass all ecosystems and cultural resources of coastal watersheds, including barrier islands, estuaries, nearshore oceanic environments, salt and freshwater wetlands, coastal ponds, plus terrestrial watersheds and processes that affect the coastal environments.

The Department of the Interior has many holdings along the North Atlantic coast from Maine to Virginia (map follows document). Just within the National Park Service and US Fish and Wildlife Service, there is one National Park, three National Seashores, two National Recreation Areas, one National Preserve, and numerous National Wildlife Refuges. Other federal agencies also manage extensive land areas within the northeast coastal zone. Increasing urbanization and an expanding recreationally oriented public has exacerbated potential threats to these northeast coastal ecosystems. This has increased the demand for high-quality science, usable and concise information for resource managers, and responsive technical assistance.

The CESU will focus on the management of Department of the Interior lands and other federal lands that lie in the increasingly urban and suburban coastal zone. Some examples of critical issues confronting the management of federal lands follow:

- Shoreline erosion

- Nutrient enrichment and eutrophication
- Accelerated sea level rise and climate change
- Exotic species expansion
- Overexploitation of renewable resources
- Vector-borne diseases and insect pests
- Loss of habitat quality and biodiversity
- Protection of cultural resources and heritage

Projects of the North Atlantic Coast CESU will endeavor to understand the fundamental ecosystem processes that are affected by a particular issue, to develop natural and cultural resource management solutions based on sound science and an appreciation for societal needs, and to monitor the effectiveness of those solutions. This will require multidisciplinary teams of scientists, social scientists, and managers. The CESU provides the perfect suite of partners for implementing the team approach.

### **Role and Mission**

The North Atlantic Coast CESU is charged with conducting coastal research, providing technical assistance, providing opportunities for education, and enhancing partnerships and cooperative approaches for addressing issues faced by federal land managers. The North Atlantic Coast CESU will entail collaborations between the university partners and federal agencies with substantive active participation by the federal agencies in research and other CESU activities.

### Research Mission

- Identify and describe critical research needs for federally managed lands.
- Establish research priorities based on the needs of federal resource managers.
- Conduct research within the North Atlantic Coast biogeographic region.
- Apply research results to support the preservation, management and restoration of North Atlantic Coast ecosystems and cultural resources.
- Monitor the success of resource preservation, management and restoration efforts.

### Technical Assistance Mission

- Identify and describe the critical technical assistance needs of federal land managers.
- Provide technical assistance, training, planning support, and other needed services for federal resource managers in a way that is timely and relevant to their critical needs.

### Cooperative Education Mission

- Establish cooperative education/internship positions for undergraduate and graduate-level students.
- Encourage the professional development of federal scientists and managers involved in the CESU.
- Provide opportunities for technical training of federal scientists and managers.

### Partnership/Collaboration

- Encourage participation by other federal research and management agencies and universities involved in coastal programs.
- Develop collaborative approaches for establishing research & management priorities.

- Facilitate collaboration to enhance the generation, synthesis, and use of scientific information for the resolution of critical coastal issues.

### **Administration & Operation**

The research, technical assistance, education and partnership missions of the North Atlantic Coast CESU will be under the direction and guidance of a Managers Committee, as stipulated in the cooperative agreement. The Manager's Committee consists of a representative from each Federal Agency participating in the North Atlantic Coast CESU. The Committee, in cooperation with the Host University and partners will serve the following functions:

- Prepare a multi-year strategic plan – a document that guides the general direction and fundamental focus of the CESU program.
- Prepare annual work plans, providing specific research projects, technical assistance activities, training opportunities, and cooperative education ventures that will be undertaken.
- Coordinate technical peer review of CESU research products.
- Seek participation of other federal research and management agencies and partner universities as the North Atlantic Coast CESU program develops.

The North Atlantic Coast CESU Managers Committee and partners will meet annually, or at a greater frequency as needed. The host institution will maintain and distribute minutes of each meeting. Other agencies and partners can be added to the CESU following consensus agreement amongst all agencies and partners.

The CESU is intended to provide direct contacts between federal agency scientists, federal managers, and university researchers. The USGS currently has coastal scientists who are duty-stationed at URI, each with collateral duties focused on the CESU. The National Park Service has duty placed a fulltime CESU Research Coordinator at URI. In addition, senior level National Park Service natural resource management professionals are duty-stationed at URI, and it is expected that they will participate in CESU activities. Federal scientists and managers who are in residence at the university are expected to provide valuable services to the university, including support and mentoring of graduate students, teaching, collaboration with university faculty/ staff/ students on CESU projects, participation in academic department activities, and active involvement in the overall intellectual atmosphere of the university.

The CESU will maintain a modest staff to coordinate and plan meetings and workshops, to address administrative matters, to draft written documents for the Managers Committee, and to perform other functions as determined necessary by the Managers Committee.

Funding for CESU activities will be administered by modification to the establishing cooperative agreement which was fully executed on 18 June 1999 between the USGS-Biological Resources Division, the National Park Service, the University of Rhode Island and the University of Maryland Eastern Shore, and thereafter amended to include additional partners. The agreement is in effect for a period of five years and can be continued for another 5 years by mutual consent of the participating parties. Near the end of the initial five-year period, the CESU Working Group, under the direction of the Secretary of the Interior, will conduct a technical review of North Atlantic Coast CESU accomplishments.

## Appendix 2: NAC-CESU Active Projects, 2004 to 2008

Active projects supported by the NAC-CESU, for the self-assessment period of 2004 to 2008. The number in front of each project corresponds to the project number referenced in parentheses in the publications, reports, and presentations listed in Appendix 3. The project title, principal investigator, affiliation, and amount of obligated funds for the 2004 to 2008 self-assessment period is given. \*: Indicates project was active, but funds were not obligated during the 2004 to 2008 self-assessment period.

### Natural Resources Research Projects

4. Efficient surveillance, natural transmission dynamics, and targeted management of West Nile Virus in mosquitoes and birds. Roger LeBrun, University of Rhode Island, \$190,064
5. Impacts of shoreline change on park infrastructure at the Sandy Hook Unit, Gateway National Recreation Area. Norbert Psuty, Rutgers University, \$126,636
6. Monitoring the success of salt marsh restoration by evaluating trophic relationships: a multiple stable isotope approach\*. Mary-Jane James-Pirri, University of Rhode Island, \$154,900
7. Assessment of trends in contaminant inputs and cultural eutrophication in Cape Cod National Seashore and Acadia National Park\*. John King, University of Rhode Island, \$24,907
9. Environmental Contaminants\*. Keith Cooper, Rutgers University, \$105,586
10. Surveys of freshwater ponds at Assateague Island National Seashore. Douglas Levin, University of Maryland-Eastern Shore, \$26,000
11. Relationships among barrier island processes, sea level rise, and maintenance of salt marsh habitat at Fire Island National Seashore\*. John King, University of Rhode Island, \$93,000
12. Operating budget, North Atlantic Coast CESU at the University of Rhode Island. Peter August, University of Rhode Island, \$28,500
14. Creation of a GIS-based automated shoreline analysis toolbox\*. Peter August, University of Rhode Island, \$81,854
17. Implementing long-term monitoring in salt marsh communities within the Northeast Coastal and Barrier Network of the National Park Service. Mary-Jane James-Pirri, University of Rhode Island, \$50,055
18. Inventory and monitoring at the Cape Cod National Seashore: benthic macrofauna\*. Sheldon Pratt, University of Rhode Island, \$30,000
20. Database development and program support for the Northeast Coastal Barrier Network.

- Charles LaBash, University of Rhode Island, \$169,172
21. Testing variables for monitoring estuarine nutrient enrichment within North Atlantic Park\*. Scott Nixon, University of Rhode Island, \$130,640
  22. Provide technical assistance regarding coastal processes in the Northeastern Coastal Parks\*. Norbert Psuty, Rutgers University, \$43,617
  25. Creating the knowledge-base for a General Management Plan for Fire Island National Seashore. Peter August, University of Rhode Island, \$86,942
  27. Hydrodynamic assessment of estuarine restoration of Pilgrim Lake, Moon Pond, and Salt Meadow, Truro, MA. Malcolm Spaulding, University of Rhode Island \$50,000
  28. Shorebirds and waterbirds at Cape Cod National Seashore. Scott McWilliams, University of Rhode Island, \$30,039
  30. Support scientific sessions and special publications honoring Dr. James R. Allen\*. Norbert Psuty, Rutgers University, \$8,000
  31. Proposal to conduct topographic survey and to establish volume data for marsh restoration experiment, Big Egg Marsh, Jamaica Bay\*. Norbert Psuty, Rutgers University, \$4,755
  32. GIS technical support. Charles LaBash, University of Rhode Island, \$22,350
  33. Feasibility of sampling surf-zone fishes in National Seashore waters. David Bengtson, University of Rhode Island, \$3,263
  34. Bay shoreline physical processes at Fire Island National Seashore: White Paper\*. Karl Nordstrom, Rutgers University, \$7,993
  35. White paper on oceanside geomorphology and processes, Fire Island National Seashore\*. Norbert Psuty, Rutgers University, \$9,200
  36. Vegetation monitoring at capped artesian wells, Fire Island National Seashore\*. Keith Killingbeck, University of Rhode Island, \$3,431
  37. Development of salt marsh change detection protocol using remote sensing techniques. Y.Q. Wang, University of Rhode Island, \$22,500
  42. Investigate bayside erosion at Fire Island National Seashore\*. Karl Nordstrom, Rutgers University, \$56,950
  44. Development of a coastal geomorphic monitoring protocol. Norbert Psuty, Rutgers University, \$209,247

45. Cape Cod hunting environmental impact statement: development of an ecological impact analysis and assessment of the hunting program at Cape Cod National seashore. Curtice Griffin, University of Massachusetts-Amherst, \$41,295
46. Education Program on Coastal Dynamics Sandy Hook Unit Gateway National Recreation Area. Norbert Psuty, Rutgers University, \$13,000
48. North Atlantic Coast CESU research and technical support for coastal National Parks. Mary-Jane James-Pirri, University of Rhode Island, \$120,600
49. North Atlantic Coast CESU statistics workshop for NPS resource managers and biologists. Mary-Jane James-Pirri, University of Rhode Island, \$10,800
50. Technical assistance in website development and enhancement for coastal National Parks\*. Charles LaBash, University of Rhode Island, \$29,011
51. Evaluate relationships between water quality, seagrass habitat, and fish populations, Assateague Island National Seashore. Scott Nixon, University of Rhode Island, \$99,500
53. Communicating natural resource issues and topics with the media. Jackleen delaHarpe, University of Rhode Island, \$27,298
58. Assessment of spatial scale for mammalian carnivore communities in Northeastern Parks. Thomas Husband, University of Rhode Island, \$41,853
60. Certify bird species listings for avian inventory conducted at parks throughout the Northeast Temperate Network. Peter Paton, University of Rhode Island, \$2,820
61. GIS technical support for Fire Island National Seashore. Charles LaBash, University of Rhode Island, \$24,000
64. Effects on Cape Sable seaside sparrow demography. Julie Lockwood, Rutgers University, \$339,255
67. Assist in the habitat evaluation process for the Fire Island to Montauk Point reformulation. Norbert Psuty, Rutgers University, \$19,786
69. Monitoring the shore changes at the Critical Zone and Gunnison Beach, Sandy Hook, Gateway National Recreation Area: Phase II\*. Norbert Psuty, Rutgers University, \$74,383
76. Pilot study to inventory amphibians, reptiles, mammals and selected bird species at Boston Harbor Islands National Park Area in the Northeast Temperate Network. Peter Paton, University of Rhode Island, \$24,205
77. Human impacts on the geomorphological processes, Fire Island National Seashore: a white paper. Norbert Psuty, Rutgers University, \$7,990



79. Ecological Evaluation of research sites studied by the UM-NPS CRU in the 1970's and 1980's on human impacts in coastal habitats of National Seashores. Paul Godfrey, University of Massachusetts-Amherst, \$24,440
81. Operational Costs in the Department of Natural Resource Science to support duty stationed personnel. Peter Paton, University of Rhode Island, \$30,000
83. Shoreline monitoring at the Barrett Beach and the Sailors Haven Marinas, Fire Island National Seashore. Norbert Psuty, Rutgers University, \$13,292
84. Database development and program support for the Northeast Coastal Barrier Network and the National Capitol Region Network. Charles LaBash, University of Rhode Island, \$386,870
86. Sediment and benthos at the proposed ferry dock site, Sandy Hook Unit, Gateway National Recreation. Norbert Psuty, Rutgers University, \$61,793
88. Restoration of Jamaica Bay salt marsh, Gateway National Recreation Area\*. Kirk Cochran, Stony Brook University, \$207,978
89. Recent and short-term sediment processes in the Great South Bay, NY: implications for habitat conservation and restoration Kirk Cochran, Stony Brook University, \$250,000
90. Collaborative evaluation of the present and historic sediment dynamics of Jamaica Bay, NY (Gateway National Recreation Area). Kirk Cochran, Stony Brook University, \$144,595
91. Shinnecock Inlet monitoring. Henry Bokuniewicz, Stony Brook University, \$119,962
92. Managing the fisheries resources of Fire Island National Seashore\*. David Conover, Stony Brook University, \$23,000
93. Description of the coastal processes affecting Long Island's South Shore beaches - A booklet to increase public understanding. Joseph Tanski, Stony Brook University, \$19,000
94. Investigate bluff erosion at three sites in Acadia National Park. Joseph Kelley, University of Maine, \$44,998
95. Nutrient loading to the Sieur de Monts Spring, Acadia National Park. Andrew Reeve, University of Maine, \$40,130
96. Student internship at Assateague Island National Seashore. Theodore Mollett, University of Maryland-Eastern Shore, \$24,381
99. Influence of geologic framework on shoreline retreat rates, Assateague Island National Seashore, Maryland and Virginia\*. Douglas Levin, University of Maryland-Eastern Shore, \$89,964

106. Eightmile River instream flow study. Piotr Parasiewicz, University of Massachusetts-Amherst, \$51,314
108. Forest management plan for Morristown National Historic Park\*. William Patterson, University of Massachusetts-Amherst, \$43,245
109. Historic sediment processes and paleoenvironmental history of Great South Bay, New York. John King, University of Rhode Island, \$99,998
110. Coastal ecosystems education and research project\*. Maragaret Leinen, University of Rhode Island, \$213,000
111. Preliminary assessment of fish utilization of the waters adjacent to the Cape Cod National Seashore. David Bengtson, University of Rhode Island, \$39,939
112. GIS map and Database Project; National Natural Landmarks, Northeast Region-New England cluster\*. Peter August, University of Rhode Island, \$16,042
113. Inventory of macroalgae at Cape Cod National Seashore. Carol Thornber, University of Rhode Island, \$6,586
114. Coastal fellow support: Restoration studies, Cape Cod National Seashore. Sheldon Pratt, University of Rhode Island, \$6,538
115. Inventory and monitoring of benthic macrofauna at Cape Cod National Seashore. Sheldon Pratt, University of Rhode Island, \$6,262
117. GIS support for natural resource condition assessments within the Northeast Region of the National Park Service. Peter August, University of Rhode Island, \$70,312
118. Long-term, seasonal, and storm-related shoreline change trends in the Florida Gulf Islands National Seashore. Peter August, University of Rhode Island, \$18,311
119. Deer population report, 1991-1994, for Acadia National Park. Daniel Harrison, University of Maine, \$8,900
120. Assessment of natural resources and watershed conditions in and adjacent to Acadia National Park. Peter Vaux, University of Maine, \$49,987
121. Developing Natural resource and social sciences research opportunities catalog for the Jamaica Bay Unit of Gateway National Recreation Area (NYC). Judy Waldman, City University of New York, \$29,955
122. Characterize rocky intertidal shorelines at newly acquired Navy Bas lands, Acadia National Park. Susan Brawley, University of Maine, \$115,971

123. Assessment of natural resources and watershed conditions for NY-NJ area coastal national park units (Fire Island National Seashore, Gateway National Recreation Area and Sagamore Hill National Historical Site). Anne McElroy, Stony Brook University, \$80,606
124. Building a GIS database to support GMP development at Cedar Creek and Belle Grove NHP, Virginia, Phase I. Roland Duhaime, University of Rhode Island, \$63,778
126. Impacts of beach scraping and artificial dune creation on the natural resources of Fire Island National Seashore-Phase I: seasonal mapping of the subaerial beach and foreshore. Peter August, University of Rhode Island, \$31,101
127. Development of a coastal bird monitoring protocol for Boston Harbor Islands National Park Area. Peter Paton, University of Rhode Island, \$29,402
128. Development and synthesis of marine and terrestrial natural resource inventory and monitoring projects for the National Park Service, Northeast Coastal and Barrier Network. Peter Paton, University of Rhode Island, \$76,045
129. Enhancing a 3-D network and estuarine elevation models at Cape Cod National Seashore using real-time kinematic GPS and LIDAR. Peter August, University of Rhode Island, \$39,295
130. Assessment of Natural Resource Conditions for Minute Man National Historical Park (Massachusetts). Mary-Jane James-Pirri, University of Rhode Island, \$34,650
131. Increasing Local and Visitor Physical Activity through Media Messages: A Specialized Benefits-Based Management Application at Acadia National Park. Jessica Leahy, University of Maine, \$32,081
132. Developing a Diatom Calibration Dataset for Mapping Critical Loads of Atmospheric N and S in the Rocky Mountains. Jasmine Saros, University of Maine, \$38,614
133. Assessment of coastal vulnerability at Pu'ukohola Heiau National Historic Site and Kaloko-Honokohau National Historic Park, Hawaii. Jon Boothroyd, University of Rhode Island, \$4,447
135. Ecological dynamics of macroalgal and cyanobacterial blooms in East Harbor Lagoon, Cape Cod National Seashore, MA. Carol Thornber, University of Rhode Island, \$7,235
136. Coastal marine recreation at Biscayne and Dry Tortugas National Parks - Understanding the ecological attitudes, behavior, and knowledge of park visitors. David Loomis, University of Massachusetts-Amherst, \$100,000
137. Evaluating ecosystem responses to restoration of the Saugus Iron Works NHS tidal wetlands through research and long-term monitoring. Mary-Jane James-Pirri, University of

Rhode Island, \$55,000

138. Development of a natural resource stewardship strategy for Boston Harbor Islands National Park Areas. Peter Vaux, University of Maine, \$60,000
139. Restoration of salt marsh habitat at the Fire Island National Seashore Wilderness Area: Studying physical and ecological functions of mosquito ditches and presenting a restoration plan. Mary-Jane James-Pirri, University of Rhode Island, \$77,200
140. Monitoring spawning horseshoe crabs, *Limulus polyphemus*, within Cape Cod National Seashore Mary-Jane James-Pirri, University of Rhode Island, \$67,602
141. A synthesis of coastal geomorphology and processes, Gateway National Recreation Area Michael DeLuca, Rutgers University. \$24,969
142. Assessment of natural resource conditions for Boston Harbor Islands National Park, Cape Cod National Seashore, and Saugus Ironworks National Historic Site: and Research opportunities catalogue for Boston Harbor Islands National Park. Peter Vaux, University of Maine, \$125,988
143. GIS support for natural resource condition assessments at Cape Cod NS, Boston Harbor Islands NRA, and Saugus Ironworks NHS. Peter August, University of Rhode Island, \$96,300
144. NY/NJ Bight Oceans Initiative: Facilitating a workshop to create a seamless network of protected areas. Michael DeLuca, Rutgers University, \$49,998
145. Modeling of National Park Service visitation trends. Timothy Tyrrell, University of Rhode Island, \$26,177
146. Monitor and assess native plant restoration and treatments. Joan Ehrenfeld, Rutgers University, \$6,975
147. Enterprise Geographic Information Systems (EGIS) investigations: New technologies in GeoSpatial data development, application design, and enterprise-based distribution. Peter August, University of Rhode Island, \$127,380
148. Development of historical topographical modeling of the beach/dune system in Northeast Coastal and Barrier Network Parks: ASIS, CACO, FIIS, and GATE. Jon Boothroyd, University of Rhode Island, \$56,887
149. Monitoring estuarine condition at FIIS. Bradley Peterson, Stony Brook University, \$27,307
150. High-resolution bathymetric and backscatter mapping in GATE: Component A and B. Roger Flood, Stony Brook University, \$20,000

151. Development and synthesis of marine and terrestrial natural resource inventory and monitoring projects for the National Park Service, Northeast Coastal and Barrier Network. Peter Paton, University of Rhode Island, \$38,052
152. Enterprise Geographic Information Systems (EGIS) Investigations: New technologies in GeoSpatial data development, application design, and enterprise-based distribution Charles LaBash, University of Rhode Island, \$112,380
153. Northeast Coastal and Barrier Network Ecological Inventory and Monitoring Program Assistance. Peter Paton, University of Rhode Island, \$71,008
154. GIS technical support for all parks in the Northeast Region and LIDAR analysis at Jamaica Bay. Charles LaBash, University of Rhode Island, \$159,903
155. Marine habitat mapping, pilot study, Fire Island National Seashore, National Park Service. John King, University of Rhode Island, \$7,050

### **Cultural Research Projects**

52. Office of Strategic Services (OSS) training camps in Prince William and Catoctin National Parks during World War II. John Chambers, Rutgers University, \$48,175
56. Archeological sites management information system, database development and backlog. Ian Mather, University of Rhode Island, \$35,037
57. Carns site monograph, Archeological investigations at the Carns site, Coast Guard Beach, Cape Cod National Seashore, Massachusetts. Sarah Turnbaugh, University of Rhode Island, \$6,641
70. Construct an archeological overview and assessment for Saint Gaudens National Historical Site, Cornish, New Hampshire. Mitch Mulholland, University of Massachusetts-Amherst, \$41,160
71. Ethnographic overview and assessment Hopewell Furnace National Historic Site. Cathy Stanton, University of Massachusetts-Amherst, \$60,000
73. Eight Mile River cultural landscape study - Phase II. Scott Jackson, University of Massachusetts-Amherst, \$36,000
80. Evaluation of the effectiveness of the Fire Island approach to federal/local zoning and land use management. Rutherford Platt, University of Massachusetts-Amherst, \$40,001
101. Document and preserve the cultural landscape of Cape Cod National Seashore\*. Jack Ahern, University of Massachusetts-Amherst, \$65, 480

104. Mission 66 contextual study\*. Ethan Carr, University of Massachusetts-Amherst \$110,000
105. Developing web-based curricula featuring the Springfield Armory's role in America's industrialization, Springfield Armory National Historic Site, Springfield, Massachusetts. David Hart, University of Massachusetts-Amherst \$25,000
107. Sagamore Hill National Historic Site National Register documentation. Marla Miller, University of Massachusetts-Amherst, \$5,000
134. Implement Phase I of NER Corrective Action Plan for the Archeological Sites Management Information System (ASMIS) at the Cape Cod National Seashore. Ian Mather, University of Rhode Island, \$30,000
156. Produce Archeological Overview and Assessment, Martin Van Buren\*. Mitch Mulholland, University of Massachusetts-Amherst, \$35,000
157. Produce Archeological Overview and Assessment, Springfield Armory\*. Mitch Mulholland, University of Massachusetts-Amherst, \$35,000
158. Produce Archeological Overview and Assessment, Saint Gaudens\*. Mitch Mulholland, University of Massachusetts-Amherst, \$41,160
159. Produce Archeological Overview and Assessment, Boston Harbor Islands. Mitch Mulholland, University of Massachusetts-Amherst, \$90,000
160. Implement GATE NER ASMIS CAP. Ian Mather, University of Rhode Island, \$21,000
161. Implement Phase II CACO NER ASMIS CAP. Ian Mather, University of Rhode Island, \$25,000
162. Implement Phase I CACO NER ASMIS CAP. Ian Mather, University of Rhode Island, \$25,000
163. Ethnographic Study of Polish Americans, Salem Maritime NHS. Cathy Stanton, University of Massachusetts-Amherst, \$70,000
164. Complete Analysis and Evaluation of Fort Tilden Cultural Landscape, Gateway National Recreation Area. George Curry, Stony Brook University, \$25,000
165. Provide Technical Assistance for Cultural Landscapes in National Parks. George Curry, Stony Brook University, \$50,000
166. Research and Evaluate of Marin Headlands Cultural Landscape, Golden Gate National Recreation Area. George Curry, Stony Brook University, \$60,630

### **Natural Resource Conservations Service Projects**

- NRCS 1. Technical assistance to complete the subaqueous soil survey data collection for priority areas in Rhode Island. Peter August, University of Rhode Island, \$104,871
- NRCS 2. Controlling nitrate pollution from agriculture and rural sources in Rhode Island to protect groundwater and coastal waters. Arthur Gold, University of Rhode Island, \$137,500
- NRCS 3. Rhode Island rapid watershed assessment (RWA) of the Wood-Pawcatuck River and western Narragansett. Peter August, University of Rhode Island, \$55,000
- NRCS 4. Rhode Island rapid watershed assessment (RWA)-Phase II. Peter August, University of Rhode Island, \$43,175
- NRCS 5. Technical assistance for pest management in Rhode Island. Richard Casagrande, University of Rhode Island, \$8,000
- NRCS 6. Host the Rhode Island farm bill forum. Peter August, University of Rhode Island, \$2,000
- NRCS 7. Technical assistance for completing the subaqueous soil data collection for Ninigret Pond and initial work in Narragansett Bay. Peter August, University of Rhode Island, \$42,553
- NRCS 8. Provide technical assistance to landowners with the development and implementation of pest management plans. Richard Casagrande, University of Rhode Island, \$11,000

### **Appendix 3**

#### **Publications, Presentations, and Workshops Supported by the NAC-CESU, 2004 to 2008**

In Fall 2008 North Atlantic Coast CESU project investigators were sent a brief questionnaire (Appendix 4) requesting information on products derived from CESU supported projects including theses/dissertations, professional journal publications, technical reports, and professional presentations/posters. Although only 51% of the investigators responded, the following list of products is impressive and demonstrates the scientific productivity of the NAC-CESU. Organized by calendar year, the following products are included:

- Theses/Dissertations
- Publications (journals, books, or peer-reviewed agency report series)
- Technical Reports (reports submitted to the funding agency, but not included in an agency report series)
- Presentations (professional society meetings, conferences, symposia)
- Workshops sponsored by the North Atlantic Coast CESU

Number in parentheses (xx) following each citation corresponds to the project number found in Appendix 2. A limited number of citations are CESU-related, but not specifically tied to a project and are indicated by (n/a).

#### ***Website Products***

<http://www.edc.uri.edu/ftsc/condition/> (117 & 143)

#### **2008**

#### ***2008 Theses/Dissertations***

DiPerna, C.J. 2008. A paleoecological assessment of urbanized coastal lagoons: Moriches Bay and Great South Bay, Long Island, New York. M.S. Thesis, University of Rhode Island, Narragansett, Rhode Island. (109)

Kratzmann, M. 2008. Anthropogenic influences on the dune/beach morphology of a moderately developed barrier island: Fire Island, New York. M.S. Thesis, University of Rhode Island, Narragansett, Rhode Island. (126)

#### ***2008 Publications***

Bannon, R. O. and C.T. Roman. 2008. Using stable isotopes to monitor anthropogenic nitrogen inputs to estuaries. *Ecological Applications* 18:22-30. doi: 10.1890/06-2006.1 (48)

Gilbert, A. T., A. F. O'Connell, Jr., E. M. Annand, N. W. Talancy, J. R. Sauer and J. D. Nichols. 2008. An inventory of terrestrial mammals at National Parks in the Northeast Temperate Network and Sagamore Hill National Historic Site: U.S. Geological Survey Scientific Investigations Report 2007-5247, 158p. (58)



- Kratzmann, M. and C. Hapke. 2008. Anthropogenic influences on the dune/beach morphology of a moderately developed barrier island: Fire Island, New York, Technical Report NPS/NER/NRTR--2008/131, 45pp. (126)
- Lentz, E., C. Hapke, and W. Schwab. 2008. A review of sediment budgets at Fire Island National Seashore, New York: Technical Report NPS/NER/NRTR--2008/114, 40pp. (126)
- Lyons, P., C.S. Thornber, J. Portnoy, and E. Gwilliam. In Press. Dynamics of macroalgal blooms along the Cape Cod National Seashore. *Northeastern Naturalist*. (113)
- Nichols, J. D., L. L. Bailey, A. F. O'Connell, Jr., N. W. Talancy, E. H. Campbell Grant, A. T. Gilbert, E. M. Annand, T. P. Husband and J. E. Hines. 2008. Multi-scale occupancy estimation and modeling using multiple detection methods. *Journal of Applied Ecology* 45(5):1321–1329. (58)
- Psuty, N. P. and J. P. Pace. In press. Sediment Management at Sandy Hook, NJ: An Interaction of Science and Public Policy. *Geomorphology*. (69)
- Psuty, N.P. and T.M. Silveira. 2008. Human interactions with the coastal geomorphology of Fire Island (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2008/132. National Park Service, Northeast Region, Boston, Massachusetts. (77)
- Smith, S.M., C.T. Roman, M.-J. James-Pirri, K. Chapman, J. Portnoy, E. Gwilliam. In Press. Response of plant communities to incremental restoration of a tidally-restricted salt marsh on Cape Cod, Massachusetts. *Restoration Ecology*. doi: 10.1111/j.1526-100X.2008.00426.x (17 & 48)
- Trocki, C.L. In Press. Coastal breeding bird monitoring in the Boston Harbor Islands. *Bird Observer*. (127)
- Vaux, P.D., S.J. Nelson, N. Rajakaruna, G. Mittelhauser, K. Bell, B. Kopp, J. Peckenham, and G. Longworth. 2008. Assessment of natural resource conditions in and adjacent to Acadia National Park. Natural Resource Report NPS/NRPC/WRD/NRR – 2008/069. National Park Service, Fort Collins, Colorado. (120)
- Wang, Y. Q., B. R. Mitchell, J. Nugranad-Marzilli, G. Bonyng, Y. Zhou and G. Shriver. In Press. Remote sensing of land-cover change and landscape context of the National Parks: A case study of the Northeast Temperate Network. *Remote Sensing of Environment*. (37)

### ***2008 Reports***

- Bengston, D.A., and C.W. Recksiek. 2008. Feasibility of sampling surf-zone fishes in National

Seashore waters. Report to the National Park Service, Northeast Region, Boston, Massachusetts. (33)

Psuty, N. P., Silveira, T.M., and Love, A., 2008. Monitoring Shoreline Change at the Sandy Hook Unit 2005-2006, Gateway National Recreation Area, Annual Report. Submitted to the Sandy Hook Unit, Gateway National Recreation Area, 25 p. (69)

Reeve, A., L. Slater, and X. Comas. 2008. Hydrogeologic and geophysical assessment of nutrient loading to the Sieur de Monts spring, Acadia National Park. Report to the National Park Service, Acadia National Park, Bar Harbor, Maine. (95)

Waldman, J. 2008. Research opportunities in the natural and social sciences at the Jamaica Bay Unit of Gateway National Recreation Area. Report to the National Park Service, Gateway National Recreation Area, Jamaica Bay Institute, Brooklyn, New York. 78p.  
<http://www.nps.gov/gate/naturescience/upload/JBAY-Research%20Opportunities.pdf> (121)

### ***2008 Presentations***

Adams, M., R. Duhaime, and R. Bannon. Visualizing Marindin's Profiles at Cape Cod National Seashore. Annual NPS GIS and Data Management Conference, March 31- April 3, 2008. Fort Collins, Colorado. (129)

August, P.V. Welcome, Overview, Purpose, and Introductions. Symposium on Rapid Watershed Assessments: What We Know, What We Don't Know, and Where We Want To Go. October 2008. Annual Meeting Society of Soil Scientists of Southern New England. Hadley, Massachusetts. (NRCS 3)

Bannon, R.O., and C.T. Roman. Using stable isotopes to assess and monitor anthropogenic nutrient inputs to estuaries. 2008 National Park Service Aquatic Professionals Meeting, February 12-14, 2008. Fort Collins, Colorado. (48)

Bokuniewicz, H. and A. Renfro. Sediments: current models and predictions for tidal hydrodynamics and sediment processes in Jamaica Bay. Symposium on Jamaica Bay Research Activities, October 26-27, 2008. New York, New York. (90)

Bonyng, G. Kicking the Tires: A Prototype for the Rhode Island RWA – Greg Bonyng, University of Rhode Island. Symposium on Rapid Watershed Assessments: What We Know, What We Don't Know, and Where We Want To Go. Annual Meeting Society of Soil Scientists of Southern New England. October 2008. Hadley, Massachusetts. (NRCS 3)

Christiano, M., R. Duhaime, and R. Bannon. Assessing the Condition of Natural Resources in Coastal National Parks: The Role of GIS. Annual NPS GIS and Data Management Conference, March 31- April 3, 2008. Fort Collins, Colorado. (117)

- Christiano, M., R. Duhaime, and R. Bannon. Web based distribution of natural resource condition assessment GIS products between collaborators. Annual NPS GIS and Data Management Conference, March 31- April 3, 2008. Fort Collins, Colorado. (117)
- Ginsberg, H.S. Predicting public health risks from vector-borne zoonotic diseases. New England Discipline Managers Advisory Committee Meeting, USGS, March 2008. Troy, New York. (4)
- James-Pirri, M.J. Horseshoe crab research. Save the Bay Science Camp for Girls, August 1, 2008. Save the Bay, Providence, Rhode Island. (140)
- James-Pirri, M.J. Researching local populations of horseshoe crabs on Cape Cod, Massachusetts. Horseshoe crab conference. Massachusetts Audubon Wellfleet Bay Wildlife Sanctuary, May 5, 2008. Wellfleet, Massachusetts. (140)
- James-Pirri, M.J. Monitoring Salt Marsh Vegetation and Nekton in the Northeast Coastal & Barrier Network. Northeast Coastal and Barrier Network 3-Year Start-up Review. National Park Service, May 19-21, 2008. Kingston, Rhode Island. (17)
- Kang, H., L. Gonzalez, L. Harris, and S. Nixon. Prediction of spatio-temporal processes – a Case Study. Proceedings of the International Statistical Institute Conference, August 2008. Lisbon, Portugal. (51)
- Lentz, E.E. and C.J. Hapke. A Spatial and Temporal Assessment of Dune/Beach Volume Change along a Continuous Surface: Fire Island, New York. Geological Society of America Abstracts with Programs, #122-5. Joint Meeting of GSA, ASA-CSSA-SSSA, GCAGS-SEPM, HGS, October 5-9, 2008. Houston, Texas. (126)
- Leschen, A. and M.J. James-Pirri. Horseshoe crabs as the great unifiers: the first regional New England surveys to gather spawning population data for fisheries management. New England Estuarine Research Society, October 15-18, 2008. Block Island, Rhode Island. (140)
- Lyons, P., C. Thornber, J. Portnoy, S. Smith, E. Gwilliam, K. Lee, and K. Chapman. Dynamics of macroalgal blooms in East Harbor, Truro, MA, Cape Cod National Seashore. 37<sup>th</sup> Annual Marine Benthic Ecology Meeting, April 9-13, 2008. Providence, Rhode Island. (135)
- Psuty, N. P. and T. Silveira. Trends in Foredune Crestline Displacement, Fire Island National Seashore, 1976-2000. Association of American Geographers, April 15-19, 2008. Boston, Massachusetts.
- Psuty, N. P. and T.M. Silveira. Objectives and Techniques of Shoreline Monitoring: Examples from the US National Park Service and the US Geological Survey. St. Fergus Technical Symposium, May 19-22, 2008. St. Fergus, Scotland. (44)
- Rafferty, P., C. Roman, G. Frame, D. Adamo, K. Mellander, M. Foley, M. Alvarez, and M.J. James-Pirri. Monitoring salt marsh restoration at Gateway National Recreation Area, NY.

- NPS Water Resources Division Aquatic Professionals Meeting, February 12-14, 2008. Fort Collins, Colorado. (48)
- Renfro, A., J.K. Cochran, and S. Goodbred. Seasonal variations in <sup>7</sup>Be and <sup>234</sup>Th inventories of bottom sediments in a New York coastal lagoon. ASLO Ocean Sciences, March 2-7, 2008. Orlando, Florida. (90)
- Renfro, A., J. K. Cochran, and S. Goodbred. Seasonal variations of excess <sup>234</sup>Th in the sediments of a coastal lagoon (Jamaica Bay, NY). ASLO Ocean Sciences, January 25-30, 2009. Nice, France. (90)
- Smith, S., C. Roman, M.J. James-Pirri, K. Chapman, J. Portnoy, and E. Gwilliam. Responses of plant communities to incremental hydrologic restoration of a tide-restricted salt marsh in southern New England (Massachusetts, USA). 2008 NPS Water Resources Division Aquatic Professionals Meeting, February 12-14, 2008. Fort Collins, Colorado. (17 & 48)
- Stolt, M.H., M.K. Payne, and C. Pruet. Carbon distribution in subaqueous soils. Soil Science Society of America International Meetings, October 5-9, 2008. Houston, Texas. (NRCS 7)
- Salisbury, A. and M.H. Stolt. Interpretations of subaqueous soils. Soil Science Society of America International Meetings, October 5-9, 2008. Houston, Texas. (NRCS 7)
- Trocki, C.L. Boston Harbor Islands coastal breeding bird monitoring program. Boston Harbor Islands Science Symposium, October 10, 2008. Boston, Massachusetts. (127)
- Vaux, P. Assessment of natural resource conditions, Acadia National Park, Maine. National Park Services 2008 Water Resources Division Aquatic Professionals Meeting, February 12-14, 2008. Fort Collins, Colorado. (120)
- Waldman, J. Current biological trends in Jamaica Bay. Jamaica Bay: State of the Bay Symposium, October 28-29, 2008. New York City, New York. (121)

### ***2008 Workshops***

- New England Seamless Network Workshop on Ocean Stewardship. March 6-7, 2008. Wells National Estuarine Research Reserve, Wells, Maine. (co-sponsor, North Atlantic Coast CESU)
- NY/NJ Bight Oceans Initiative: A Workshop to Create a Seamless Network of Protected Shores May 13-14, 2008. National Park Service and Rutgers University, New Brunswick, New Jersey. (144)

**2007*****2007 Theses/Dissertations***

Suom, C. 2007. Mosquito and bird interaction and West Nile Virus transmission. M.S. Thesis, University of Rhode Island, Narragansett, Rhode Island. (4)

***2007 Publications***

August, P., M. Bradley, J. Turenne, and K. Ford. 2007. Bathymetry: An In-depth Study. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

August, P. and B. Costa-Pierce. 2007. Mapping Submerged Habitats: A New Frontier. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

Freedman, J. and J. Boyd. 2007. Coastal Ecosystem Management in Rhode Island: The Role of MapCoast. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

Hapke, C.J. and M. Christiano. 2007. Long-term and storm-related shoreline change trends in the Florida Gulf Islands National Seashore. US Geological Survey Open-file Report 2007 – 1392. <http://pubs.usgs.gov/of/2007/1392/>. Accessed 3 December 2008. (118)

Harris, L., S. Granger, and S. Nixon. 2007. Evaluation of the health of eelgrass (*Zostera marina* L.) beds within the Maryland Coastal Bays. Technical Report NPS/NER/NRR-2007/014. National Park Service, Northeast Region, Boston, MA. 35p. (3)

James-Pirri, M.-J., C.T. Roman, J. Heltshe. 2007. Power analysis to determine sample size for monitoring vegetation change in salt marsh habitats. *Wetlands Ecology and Management* 15:335-345. doi: 10.1007/s11273-007-9034-x (17)

King, J. 2007. Into the Deep: Mapping the Bay. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

King, J., J. Boothroyd, and B. Oakley. 2007. Finding More Than Fish. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

King, J. and E. Shumchenia. 2007. Spying on the Ecosystem. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

King, J., E. Shumchenia, M. Bradley, and C. Hapke 2007. The Sky Above, the Mud Below. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)

Kolker, A. and S. Hameed. 2007. Meteorologically Driven Trends in Sea Level Rise, *Geophysical Research Letters* 34: L23616. doi:10.1029/2007GL031814. (88)

- Rodriguez, W., P. August, Y. Wang, J. Paul, A. Gold, and N. Rubinstein. 2007. Empirical Relationships between Land Use/Cover and Estuarine Condition in the Northeastern United States. *Landscape Ecology*, 22:403–417. (2)
- Roman, C.T., J.W. King, D.R. Cahoon, J.C. Lynch, and P.G. Appleby. 2007. Evaluation of marsh development processes at Fire Island National Seashore (New York): Recent and historic perspectives. National Park Service, Northeast Region, Boston, MA. Technical Report NPS/NER/NRTR – 2007/089. 62p.  
[http://www.ci.uri.edu/NACCESU/Project\\_assets/King/FIIS\\_marsh\\_sealevel\\_final\\_July07\\_v2.pdf](http://www.ci.uri.edu/NACCESU/Project_assets/King/FIIS_marsh_sealevel_final_July07_v2.pdf) (11)
- Scherer, E. 2007. MapCoast: Bringing Together Scientists, Technology, and Users. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)
- Stolt, M., M. Bradley, J. Turenne, E. Scherer, and M. Payne. 2007. From Land to Shallow Water: The Evolution of Soil Mapping. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)
- Stolt, M., M. Bradley, J. Turenne, M. Payne, and J. King. 2007. Cutting to the Core. *4IN* 4(1). RI Sea Grant Publications. (NRCS 7)
- Tanski, J. 2007. Long Island’s Dynamic South Shore – A Primer on the forces and trends shaping our coast. New York Sea Grant Extension Program, Stony Brook University, Stony Brook, New York. 27p. (93)  
<http://www.seagrant.sunysb.edu/cprocesses/pdfs/LIDynamicSouthShore.pdf>
- Trocki, C. L., and P. W. C. Paton. 2007. Boston Harbor Islands Coastal Breeding Bird Monitoring: 2007 Field Season Summary. Natural Resources Report NPS/NER/NRR--2007/16. National Park Service. Boston, MA. (127)
- Trocki, C. L., N. W. Talancy and P. W. C. Paton. 2007. An Inventory of Amphibians, Reptiles, Nonvolant Mammals, and Select Bird Species on Islands in Boston Harbor. Technical Report NPS/NER/NRTR--2007/094. National Park Service. Boston, Massachusetts. (76)
- Wang, Y., M. Traber, B. Milstead and S. Stevens. 2007 Terrestrial and Submerged Aquatic Vegetation Mapping in Fire Island National Seashore Using High Spatial Resolution Remote Sensing Data. *Marine Geodesy* 30:77-95.doi: 10.1080/01490410701296226. (37)

### ***2007 Reports***

- Portnoy, J., S. Smith, K. Lee, K. Chapman, M. Galvin, E. Gwilliam, P. Lyons, and C. Thornber. 2007. Annual report on estuarine restoration at East Harbor (Truro, MA), Report to the National Park Service, Cape Cod National Seashore, Wellfleet, Massachusetts. 49pp. (135)
- Psuty, N. P. and A. Love. 2007. Monitoring Shoreline Change at the Sandy Hook Unit 2005-2006, Gateway National Recreation Area, Annual Report. Submitted to the Sandy Hook

Unit, Gateway National Recreation Area, 30 p. (69)

Sturm, M. 2007. Assateague Island National Seashore, Assessment of vegetation impacts by feral horses, Sika deer and white-tailed deer. Report to National Park Service, Assateague Island National Seashore, Berlin, Maryland. (48)

### ***2007 Presentations***

Bannon, R.O., and C.T. Roman. Using stable isotopes to monitor anthropogenic nitrogen inputs to estuaries. New England Estuarine Research Society, May 3-5, 2007. Boothbay Harbor, Maine. (48)

Bradley, M. P. August, E. Scumchenia, and J. Turenne. Bathymetric Mapping in Shallow Coastal Environments: Integrating Fathometry, GPS, and GIS. NOAA Coastal Services Center GeoTools Conference, March 5-8, 2007. Myrtle Beach, South Carolina. (NRCS 7)

Bradley, M., M. Stolt, J. Turenne, M Payne. Mapping shallow-subtidal benthic habitats using pedological approaches. Estuarine Research Federation Annual Meeting, November 4-8, 2007. Providence, Rhode Island. (NRCS 7)

Conover, D. A new National Park Service initiative of ocean stewardship: opportunities for Fire Island National Seashore and Great South Bay – a panel discussion. 6<sup>th</sup> Biennial Fire Island National Seashore Planning, Science and Research Conference, May 9-10, 2007. Stony Brook, New York. (92)

Duhaime, R. J. National Natural Landmarks of the Northeast United States New England Cluster. New Hampshire GIS Day, November 14, 2007. Durham, New Hampshire. (112)

Ginsberg, H.S. Efficient surveillance and management of vector-borne diseases in natural areas (poster). Second National Conference on USGS Health-Related Research, February 28-March 1, 2007. Reston, Virginia. (4)

Ginsberg, H.S. Managing vector-borne diseases so as to minimize effects on nontarget insects. Cambridge Entomological Club Meeting, Harvard University, April 10, 2007. Boston, Massachusetts. (4)

Ginsberg, H.S., R.A. LeBrun, S.R. Campbell, and I. Rochlin. Mosquito surveillance and transmission patterns of West Nile Virus. Fire Island National Seashore – Planning, Science and Research Conference, May 9-10, 2007. Stony Brook University, New York. (4)

Ginsberg, H.S. Vector-borne zoonoses and wildlife conservation. Patuxent Strategic Science Review meeting, July 17-19, 2007. Bowie, Maryland. (4)

González, L. Prediction of Spatio-Temporal Processes; A Case Study. International Statistical Institute, August 22-29, 2007. Lisbon, Portugal. (51)

- Hapke, C., E. Lentz, M. Kratzmann, and M. Bradley. Multi-Temporal Analysis of Beach Morphology on Fire Island, New York, EOS Trans. AGU, 88(52), Fall Meeting Supplemental, Abstract H33L-04. December 10-14, 2007. San Francisco, California. (126)
- James-Pirri, M.J. Blood, bait, and birds. The horseshoe crab a multiple use resource. 5th Annual State of Wellfleet Harbor Conference, November 10, 2007. Wellfleet, Massachusetts. (140)
- Kang, H. Predicting Water Quality in the Maryland Coastal Bays Using Spatio-Temporal Models. The International Environmetrics Society, North American Regional Meeting, June 19-21, 2007. Seattle, Washington. (51)
- Kelley, J.T. and A.R. Kelley. Coastal bluff management: evaluating short and long-term risk from rare events. Geological Society of America Abstracts with Programs v 39, p. 90. Geological Society of America Northeastern Section Meeting, March 12-14, 2007. Durham, New Hampshire. (94)
- Kratzman, M. and C. Hapke. Influence of Beach Scraping on Beach Profile Morphology, Fire Island, New York: EOS Transactions, AGU, 88(52), Fall Meeting Supplemental, Abstract H41B-0498. December 10-14, 2007. San Francisco, California. (126)
- Lyons, P., C.S. Thornber, J. Portnoy, and E. Gwilliam. Study of nuisance drift algae on Cape Cod National Seashore. 36<sup>th</sup> Annual Marine Benthic Ecology Meeting, March 21-24, 2007. Atlanta, Georgia. (113)
- Lyons, P., C.S. Thornber, J. Portnoy, and E. Gwilliam. Spatial and temporal dynamics of drift algae. Northeast Algal Symposium, April 20-22, 2007. Narragansett, Rhode Island. (113)
- Payne, M.K., and M.H. Stolt. Sulfide distribution in subaqueous soil systems. Soil Science Society of America International Meetings, November 4-8, 2007. New Orleans, Louisiana. (NRCS 7)
- Rafferty, P.S., M.J. James-Pirri, C.T. Roman, K.M. Mellander, G.W. Frame, D.A. Adamo, M.K. Foley, M.D. Alvarez. Monitoring Salt Marsh Restoration at Elders Point, Gateway National Recreation Area, New York, USA. Estuarine Research Federation, 19<sup>th</sup> Biennial International Conference, November 4-8, 2007. Providence, Rhode Island. (48)
- Reeve, A., L. Slater, and X. Comas. Hydrogeologic assessment of the eutrophication of the Sieur de Monts Spring, Acadia National Park. Geological Society of America (GSA) Annual Meeting, October 28-31, 2007. Denver, Colorado. (95)
- Reeve, A., X. Comas, and L. Slater. Hydrogeologic assessment of the eutrophication of the Sieur de Monts Spring, Acadia National Park. Maine Water Conference, March 21, 2007. Augusta, Maine. (95)
- Roman, C.T., J. King, D. Cahoon, and J. Lynch. Relationships of sea-level rise, barrier island



processes, and salt marsh development at Fire Island National Seashore: Historic and recent perspectives. 6<sup>th</sup> Biennial Fire Island National Seashore Planning, Science and Research Conference, May 9-10, 2007. Stony Brook, New York. (11)

Stolt, M.H., M. Bradley, J. Turenne, and M. Payne. The MapCoast Partnership: Mapping subaqueous soils in shallow estuarine and lagoonal ecosystems. Coastal Geotools Conference, March 5-8, 2007. Charleston, South Carolina. (NRCS 7)

Wang, Y. Q. Park Ecological Condition Satellite Remote Sensing for Monitoring and Reporting the Condition of National Parks. North American Network for Remote Sensing Annual Meeting, March 6-8, 2007. Santa Fe, New Mexico. (37)

### ***2007 Workshops***

A New National Park Service Initiative of Marine Stewardship: Opportunities for Fire Island National Seashore and Great South Bay. Symposium held at the 6<sup>th</sup> Biennial Fire Island National Seashore Planning, Science, and Research Conference. May 9, 2007. Stony Brook University, Stony Brook, New York. (n/a)

**2006*****2006 Theses/Dissertations***

- Bannon, R.O. 2006. Assessing the use of stable isotopes to monitor anthropogenic nitrogen inputs to estuarine systems. M.S. Thesis, University of Rhode Island, Narragansett, Rhode Island. (48)
- Kang, H. 2006. Analysis of water quality data in the Maryland Coastal Bays – A Bayesian approach. M.S. Thesis, University of Rhode Island, Kingston, Rhode Island. (51).

***2006 Publications***

- Beavers, R. L., N.P. Psuty, C.T. Roman, and M.K. Foley. 2006. James R. Allen: His contributions to National Park Service coastal geomorphology. *Journal of Coastal Research* 22: 1192-1197. (30)
- Wang, Y. Q., J. Nugranad, G. Bonyng, C. Slinko, G. Shriver, and B. Mitchell. 2006. Impacts of Land-cover Change on the National Parks of the Northeast Temperate Network. *Proceedings of the Annual Conference of the American Society for Photogrammetry and Remote Sensing 2006: Prospecting for Geospatial Information Integration*, May 1-6, 2006. Reno, Nevada. ISBN: 9781604237290, Curran Associates, Inc. (37)
- Wozniak, A.W., C.T. Roman, S.C. Wainwright, R.A. McKinney, M.-J. James-Pirri. 2006. Monitoring food web changes with tidal restoration of salt marshes: a carbon stable isotope approach. *Estuaries and Coasts* 29:568-578. (6)

***2006 Reports***

- James-Pirri, M.J. 2006. Implementing Long-Term Monitoring of Salt Marsh Communities within the Northeast Coastal and Barrier Network of the National Park Service. Year 3: Monitoring at Monitoring at Assateague Island National Seashore and George Washington Birthplace National Monument. Report to the National Park Service, Northeast Coastal Barrier Network. Kingston, Rhode Island. (17)
- McDuffie, K., and D. Masterson. 2006. Science and the Media, Communicating Natural Resource Issues to the Press: a Workshop Report. Final to the National Park Service, Natural Resources Program Center, Fort Collins, Colorado. (53)
- Reed, D.J., D.A. Bishara, D.R. Cahoon, J. Donnelly, M. Kearney, A.S. Kolker, L.L. Leonard, R.O. Orson, and J.C. Stevenson. 2006. Site-Specific Scenarios for Wetland Accretion as Sea Level Rises in the Mid-Atlantic Region. Report to Climate Change Division, U.S. Environmental Protection Agency. (88)
- Wang, Y.Q. and M. Christiano. 2006. A protocol of using high spatial resolution satellite

imagery to map salt marshes: towards long-term change detection. Report to the National Park Service, Northeast Region, Boston, Massachusetts. (37)

### ***2006 Presentations***

- Bannon, R., and C. T. Roman. Assessment of the use of stable nitrogen isotope ratios in monitoring anthropogenic nutrient inputs to estuarine systems. Jamaica Bay: Plight and Promise. National Park Service, Gateway National Recreation Area, October 29, 2006. Brooklyn, New York. (48)
- Bradley, M. K. Ford. E. Schumchenia, J. Turenne. 2006. 2006 Bathymetry. URI Coastal Institute MapCoast Data Rollout. Narragansett, Rhode Island. (NRCS 7)
- Cole, L.W. Nitrogen loading to Chincoteague Bay (MD, VA): a reassessment. 2006 Enviroday, University of Virginia. Charlottesville, Virginia. (21)
- Fabre, L. and J. Stringelin-Keefer. Northeast Region Inventory and Monitoring NPSpecies Data Entry Guidance Procedures. National Park Service 2006 Inventory and Monitoring Data Management Conference, April 3-7, 2006. Fort Collins, Colorado. (20)
- Ginsberg, H.S. Transmission dynamics of vector-borne pathogens. USGS Patuxent Wildlife Research Center Biennial Science Meeting, October 11-13, 2006. Laurel, Maryland. (4)
- Hapke, C. and R. Beavers. Assessing shoreline change for post-hurricane management of park resources in Gulf Islands National Seashore: EOS transactions. AGU 87(52), Fall Meeting Supplemental, Abstract H33B-1512. December 11-15, 2006. San Francisco, California. (118)
- King, J. and G. Cicchetti. 2006. Imaging. URI Coastal Institute MapCoast Data Rollout. Narragansett, Rhode Island. (NRCS 7)
- Kolker, A.S., S.L. Goodbred, S. Hameed, and J.K. Cochran and R.C. Aller. Understanding Global Environmental Trends in Local Wetland Settings. 12th Conference on the Geology of Long Island and Metropolitan New York, April 16, 2005. Stony Brook, New York. (88)
- Kolker, A.S., S.L. Goodbred, S. Hameed, and J.K. Cochran. Does the Physical Setting Control a Salt Marshes Response to Climate Change? Implications for Predictive Modeling. Society of Wetlands Scientist Annual Meeting, July 9-14, 2006. Queensland, Australia. (88)
- Payne, M.K., and M.H. Stolt. Subaqueous landscapes and soils within southern New England open embayments. Soil Science Society of America International Meetings, November 12-16, 2006. Indianapolis, Indiana. (NRCS 7)
- Payne, M.K., and M.H. Stolt. Subaqueous Soils, Water Quality, and Estuary Health. World Congress of Soil Science, July 9-15, 2006. Philadelphia, Pennsylvania. (NRCS 7)

- Roman, C.T., M.J. James-Pirri, D. Cahoon, B. Milstead. Long-term monitoring of salt marsh structure and function: Assessing responses to natural and human-caused stressors. 2006 Ocean Sciences Meeting; sponsored by the American Society of Limnology and Oceanography, The American Geophysical Union, and The Oceanography Society Meeting, February 20-24, 2006. Honolulu, Hawaii. (17)
- Stolt, M.H. 2006. Partnering to advance subaqueous soil resource inventories. Seventh Coastal and Estuarine Shallow Water Science and Management Conference, USEPA. Philadelphia, Pennsylvania. (NRCS 7)
- Stolt, M.H. Sampling and analysis of soils collected in shallow-subtidal habitats. Soil Science Society of America International Meetings, November 12-16, 2006. Indianapolis, Indiana. (NRCS 7)
- Stolt, M., J. Boothroyd, J. Turenne, M. Bradley, E. Schumchenia, and J. King. 2006. 2Soil Survey. URI Coastal Institute MapCoast Data Rollout. Narragansett, Rhode Island. (NRCS 7)
- Talancy, N. W., A. F. O'Connell, Jr. & T. P. Husband. Using site occupancy models to determine the effects of habitat fragmentation and landscape context on medium-sized mammalian predators in northeastern national parks. 86<sup>th</sup> Annual Meeting of the American Society of Mammalogists, June 17–21, 2006. Amherst, Massachusetts. (58)
- Talancy, N. W., A. F. O'Connell, T. P. Husband, A. T. Gilbert, and E. M. Annand. Effects of habitat fragmentation and landscape context on medium sized mammalian predators in northeastern national parks. Annual Meeting of the Wildlife Society, September 23–27, 2006. Anchorage, Alaska. (58)
- Talancy, N. W., A. F. O'Connell, T. P. Husband, A. T. Gilbert, and E. M. Annand. Effects of habitat fragmentation and landscape context on medium-sized mammalian predators in northeastern national parks. USGS Patuxent Wildlife Research Center's FY 2006 Biennial Science Meeting, October 11 – 13. 2006. Laurel, Maryland. (58)
- Wang, Y. Q., J. Nugranad, G. Bonyng, C. Slinko, and W. G. Shriver. Impacts of land-cover change on the National Parks of the Northeast Temperate Network. 2006 American Society for Photogrammetry and Remote Sensing, May 1-5, 2006. Reno, Nevada. (37)
- Wang, Y., M. Traber, B. Milstead. Vegetation Mapping for the Fire Island National Seashore: Towards Long-term Resource Management and Monitoring. 21st Annual Symposium of the United States Regional Chapter of the International Association for Landscape Ecology, March 28-April 1, 2006. San Diego, California. (37)

### ***2006 Workshops***

Fire Island Breach Management Plan Workshop. September 13-14, 2006. Sponsors: USGS,

Army Corps of Engineers, University of Rhode Island, and the National Park Service.  
Narragansett, Rhode Island. (n/a)

**2005*****2005 Theses/Dissertations***

- Cole, L. 2005. Nitrogen loading to Chincoteague Bay (MD, VA): a reassessment. M.S. Thesis, University of Rhode Island, Narragansett, Rhode Island. (21)
- Kolker, A. 2005. The Impacts of Climate Variability and Anthropogenic Activities on Salt Marsh Accretion and Loss on Long Island. Ph.D. Dissertation, Stony Brook University, Stony Brook, New York. (88)
- Schneider, E. 2005. Behavioral ecology of an incubating shorebird : the effects of ambient temperature and human disturbance on piping plover (*Charadrius melodus*) incubation patterns at Cape Cod National Seashore. M.S. Thesis, University of Rhode Island, Kingston, Rhode Island. (28)
- Talancy, N. W. 2005. Effects of habitat fragmentation and landscape context on medium-sized mammalian predators in Northeastern National Parks. MS Thesis. University of Rhode Island, Kingston, Rhode Island. (58)

***2005 Publications***

- Bell, R., R. Buchsbaum, C. Roman, and M. Chandler. 2005. Inventory of intertidal marine habitats, Boston Harbor Islands National Park Area. *Northeastern Naturalist* 12 (Special Issue 3):169-200.
- Conover, D.O., R. Cerrato, and W. Wise. 2005. Conservation and management of the living marine resources of Fire Island National Seashore (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2005/023. National Park Service, Northeast Region, Boston, Massachusetts.  
[http://www.ci.uri.edu/NACCESU/FIIS\\_page/Conover\\_FIIS\\_whitepaper.pdf](http://www.ci.uri.edu/NACCESU/FIIS_page/Conover_FIIS_whitepaper.pdf) (92)
- Ginsberg, H.S. 2005. Vector-borne diseases on Fire Island, New York (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2005/018. National Park Service, Northeast Region, Boston, Massachusetts.  
[http://www.ci.uri.edu/NACCESU/FIIS\\_page/Ginsberg\\_vector\\_final.pdf](http://www.ci.uri.edu/NACCESU/FIIS_page/Ginsberg_vector_final.pdf) (25)
- Hinga, K. 2005. Water quality and ecology of Great South Bay (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2005/019. National Park Service, Northeast Region, Boston, MA.  
[http://www.ci.uri.edu/NACCESU/FIIS\\_page/Hinga\\_GSB\\_final.pdf](http://www.ci.uri.edu/NACCESU/FIIS_page/Hinga_GSB_final.pdf) (25)
- Jacobson, B., and C.T. Roman, guest editors. 2005. Boston Harbor Islands National Park Area: Natural Resources Overview. *Northeastern Naturalist*, volume 12, special issue 3. 222p.
- Kolker, A.S. 2005. Science in the City. *National Wetlands Newsletter* 272:15-18. (88)

- Nordstrom, K.F. and N.L. Jackson. 2005. Bay shoreline physical processes (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2005/020. National Park Service, Northeast Region, Boston, MA.  
[http://www.ci.uri.edu/NACCESU/FIIS\\_page/Nordstrom\\_Jackson\\_bayshore\\_final.pdf](http://www.ci.uri.edu/NACCESU/FIIS_page/Nordstrom_Jackson_bayshore_final.pdf) (34)
- Paton, P.W.C., R.J. Harris, and C.L. Trocki. 2005. Distribution and abundance of breeding birds in Boston Harbor. *Northeastern Naturalist* 12:145-168. (127)
- Psuty, N. P., J. P. Pace, and J. R. Allen. 2005. Coastal Foredune Displacement and Recovery, Barrett Beach-Talisman, Fire Island, New York, USA. *Zeitschrift fur Geomorphologie. Supplementband* 141:153-168. (30)
- Psuty, N. P., J. P. Pace, and J. R. Allen. 2005. Coastal Foredune Displacement and Recovery, Barrett Beach-Talisman, Fire Island, New York, USA. *Zeitschrift fur Geomorphologie. Supplementband* 141:153-168. (3)
- Psuty, N.P., M. Grace, and J.P. Pace. 2005. The coastal geomorphology of Fire Island: a portrait of continuity and change (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2005/021. National Park Service, Northeast Region, Boston, Massachusetts. (35)  
[http://www.ci.uri.edu/NACCESU/FIIS\\_page/Psuty\\_etal\\_oceanshore\\_final.pdf](http://www.ci.uri.edu/NACCESU/FIIS_page/Psuty_etal_oceanshore_final.pdf)
- Psuty, N.P., D.J. Sherman, and K. Meyer-Arendt (editors). 2005. *Coasts Under Stress II. Zeitschrift fur Geomorphologie* Supplement volume 141:i-212. (30)
- Roman, C.T., B. Jacobson, and J. Wiggin. 2005. Introduction to a special issue: Boston Harbor Islands national park area natural resources overview. *Northeastern Naturalist* 12 (Special Issue 3):3-12. (n/a)
- Shaw, S. and W. A. Patterson III. May 2006. Strategies for Managing the Forest at Morristown National Historical Park. Technical Report NPS/NER/NRTR--2006/040. National Park Service. Boston, Massachusetts. (108)
- Trocki, C. L. and P. Paton. 2005. Developing a Conservation Strategy for Grassland Birds at Saratoga National Historical Park. Natural Resources Report NPS/NER/NRR—2006/004. National Park Service. Boston, MA. (60)
- Underwood, H.B. 2005. White-tailed Deer ecology and management on Fire Island National Seashore (Fire Island National Seashore Science Synthesis Paper). Technical Report NPS/NER/NRTR-2005/022. National Park Service, Northeast Region, Boston, MA.  
[http://www.ci.uri.edu/NACCESU/FIIS\\_page/Underwood\\_deer\\_final.pdf](http://www.ci.uri.edu/NACCESU/FIIS_page/Underwood_deer_final.pdf) (25)

### ***2005 Reports***

- James-Pirri, M.J. 2005. Implementing Long-Term Monitoring of Salt Marsh Communities within the Northeast Coastal and Barrier Network of the National Park Service. Year 2: Monitoring at Boston Harbor Islands National Park Area, Cape Cod National Seashore, Gateway National Recreation Area, and Sagamore Hill National Historic Site National Seashore. Report to the National Park Service, Northeast Coastal Barrier Network, Kingston, Rhode Island. (17)
- Psuty, N. P., and J.P. Pace. 2005. Monitoring Shoreline Change at the Sandy Hook Unit 2004, Gateway National Recreation Area. Submitted to the Sandy Hook Unit, Gateway, 30 p. (69)
- Spaulding, M.L. and A. Grilli. 2005. Hydrodynamic assessment of estuarine restoration of Pilgrim Lake, Moon Pond, and Salt Meadow, Truro, Massachusetts. Report to the National Park Service, Cape Cod National Seashore, Wellfleet, Massachusetts. 49p. (27)

### ***2005 Presentations***

- August, P. Introduction and overview. Rhode Island Farm Bill Forum, October 14, 2005. Narragansett, Rhode Island. (NRCS 6)
- Cole, L.W. and S.W. Nixon. Nitrogen loading to Chincoteague Bay (MD, VA): a reassessment. Estuarine Research Federation, 18<sup>th</sup> Biennial International Conference, October 16-10, 2005. Norfolk, VA. (21)
- Ginsberg, H.S. and R.A. LeBrun. Mosquitoes, birds, and transmission patterns of West Nile Virus. “Jamaica Bay: Plight and Promise” Research Symposium October 29, 2006. Brooklyn College, New York. (4)
- Kolker, A.S., S.L. Goodbred, J.K. Cochran, and F.M. Mushacke. Are Rates of Accretion and Marsh Loss Decoupled? Evidence from Long Island, USA. 8th Biennial Conference of the Estuarine Research Federation: Special Session-05, October 16-20, 2005. Norfolk, Virginia. (88)
- Kolker, A.S., S.L. Goodbred, S. Hameed, and J.K. Cochran. A Close Coupling Between Salt Marsh Accretion Rates and Sea-Level Change Determined Through High Resolution Lead-210 Geochronologies: Evidence from Long Island, USA and Implications for Coastal Zone Change. American Geophysical Union Fall Meeting, Eos Trans. AGU, 86(52), Abstract H23J-03, December 5-9, 2005. San Francisco, California. (88)
- Kolker, A.S., S.L. Goodbred, J.K. Cochran, R.C. Aller and F.M. Mushacke. Marsh Loss on Long Island: Does Biogeochemistry Trump Climate Change?. 11th Conference on the Geology of Long Island and Metropolitan New York, April 17, 2004. Stony Brook, NY. (88)
- Pace, J. P. and N.P. Psuty. Using LIDAR Topographic and Photographic Data for Dune



- Template Design at the Fire Island National Seashore. George Wright Society, March 14-18, 2005. Philadelphia, Pennsylvania.
- Pace, J.P., N.P. Psuty, and M. Grace. The coastal geomorphology of Fire Island: a portrait of continuity and change. 5<sup>th</sup> Biennial Fire Island National Seashore Science and Cultural Resource Conference, April 5-6, 2005. Upton, New York. (35)
- Psuty, N. P., and J.P. Pace. A Perspective on Sediment Manipulation: Evolving Approaches to Managing Sediment Budget. International Association of Geomorphologists, September 7-11, 2005. Zaragoza, Spain. (69)
- Recksiek, C.W. D. Bengston, K. Dunlop, and others. Surf-zone fish assemblages at East Matunuck Beach, Rhode Island. 5<sup>th</sup> Biennial Fire Island National Seashore Science and Cultural Resource Conference, April 5-6, 2005. Upton, New York. (33)
- Rodriguez, A. The Coastal GeoToolbox: Making Coastal Data Accessible through ArcMap Customization. 25<sup>th</sup> Annual ESRI International User Conference, July 25–29, 2005. San Diego, California. (14)
- Rodriguez, A., M. Duffy, B. Milstead, C. Roman, P. August, and C. LaBash. The coastal geotoolbox: making coastal geomorphology data more accessible. Coastal GeoTools Conference, March 3-10, 2005. Myrtle Beach, South Carolina. (14)
- Rodriguez, A. The Coastal GeoToolbox: Providing Access to Geomorphologic Data. George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, March 14-18, 2005. Philadelphia, Pennsylvania. (14)
- Roman, C.T., D. Cahoon, M.J. James-Pirri. Salt marshes of Fire Island – Monitoring long-term changes in habitat structure and function. 5<sup>th</sup> Biennial Fire Island National Seashore Science and Cultural Resource Conference, Brookhaven National Lab, April 5-6, 2005. Upton, New York. (48)
- Roman, C.T. and B. Sullivan. Synthesizing science information for park planning: issue-oriented papers for Fire Island National Seashore. The George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, March 14-18, 2005. Philadelphia, Pennsylvania.
- Schneider, E.G. and S.R. McWilliams. Effects of ambient temperature and human disturbance on piping plover incubation patterns at Cape Cod National Seashore. Science Seminar Series, Cape Code National Seashore. August 2005. Wellfleet, Massachusetts. (28)
- Schneider, E.G. and S.R. McWilliams. Using nest temperature to estimate nest attendance of piping plovers. Annual meeting of Massachusetts Coastal Waterbird Conservation Cooperation, August 2005. Hyannis, Massachusetts. (28)

Wang, Y. Q., J. Nugranad, G. Bonyngge, C. Slinko, and G. Shriver. Detection of land cover change in the national parks of the Northeast Temperate Network. 16th William T. Pecora Memorial Symposium, October 2 –27, 2005. Sioux Falls, South Dakota. (37)

Wang, Y., M. Traber, and B. Milstead. Remote sensing of terrestrial and submerged aquatic vegetation in Fire Island National Seashore: towards long-term resource management and monitoring. 5<sup>th</sup> Biennial Fire Island National Seashore Science and Cultural Resource Conference, Brookhaven National Lab, April 5-6, 2005. Upton, New York. (37).

Wise, W. Conserving and managing the living marine resources of Fire Island National Seashore. 5<sup>th</sup> Biennial Fire Island National Seashore Science and Cultural Resource Conference, April 5-6, 2005. Upton, New York. (92)

### *2005 Workshops*

Applied Statistics Workshop for Coastal Parks in the Northeast. June 1-2, 2005. University of Rhode Island and the National Park Service, Acadia National Park, Bar Harbor, Maine. (49)

A Media Communication Workshop for National Park Service Staff. October 17-19, 2005. National Park Service and the Metcalf Institute for Marine and Environmental Reporting, University of Rhode Island, Narragansett, Rhode Island. (53)

PRIMER-E multivariate statistical software workshop. June 13-17, 2005. Environmental Protection Agency, Narragansett, Rhode Island (n/a)

**2004*****2004 Theses/Dissertations***

- Rodriguez, A. 2004. Needs assessment, creation, and utilization of the coastal geotoolbox. M.S. Thesis, University of Rhode Island, Kingston, Rhode Island. (14)
- Wozniak, A.S. 2004. Monitoring salt marsh restoration by evaluating trophic relationships: a multiple stable isotope approach. M.S. Thesis, University of Rhode Island, Narragansett, Rhode Island. (6)

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- Psuty, Norbert P., J. Pace, M. Duffy, B. Milstead. 2004. Protocol Development for Shoreline Change Mapping and Analysis, Northeast Coastal and Barrier Network, National Park Service, USA. pp. 7-11. In: *Proceedings, Littoral 2004, Delivering Sustainable Coasts: Connecting Science and Policy*, Cambridge Publications. ISBN: 0-9540081-0-4 (20)

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- Fabre, L. and J. Stingelin Keefer. 2004. NPSpecies Data Entry and Data Management Standards. Report to the National Park Service, Northeast Coastal and Barrier Network. Kingston, Rhode Island. (20)
- Fabre, L. and J. Stingelin Keefer. 2004. Northeast Region NPSpecies Database Certification Guide. Report to the National Park Service, Northeast Coastal and Barrier Network. Kingston, Rhode Island. (20)
- Hanley, M. 2004. Vegetation monitoring program: Fire Island National Seashore well cap sites, 2003 Summary Report. Report to the National Park Service, Northeast Region, Boston, Massachusetts. (36)
- James-Pirri, M.J. 2004. Summary of Nekton and Vegetation Sampling at Saugus Iron Works National Historic Site June-August 2004. Report to the National Park Service, Saugus Iron Works National Historic Site, Saugus, Massachusetts. (17 & 48)
- James-Pirri, M.J. 2004. Implementing Long-Term Monitoring of Salt Marsh Communities within the Northeast Coastal and Barrier Network of the National Park Service. Year 1: Monitoring at Colonial National Historic Site, Gateway National Recreation Area, and Fire Island National Seashore. Report to the National Park Service, Northeast Coastal Barrier Network. Kingston, Rhode Island. (17)
- James-Pirri, MJ. 2004. Wetland and Water Quality Issues for Parks of the Northeastern US: A Scoping Report for the Coastal Barrier Network. Report to the National Park Service, Northeast Coastal and Barrier Network. Kingston, Rhode Island. (n/a)

Skidds, D.E., 2004. Northeast Coastal and Barrier Network Standard Operating Procedure (SOP): Using the Garmin V GPS Unit with DGPS Beacon. Report to the National Park Service, Northeast Coastal and Barrier Network. Kingston, Rhode Island. (20)

### ***2004 Presentations***

- Bradley, M, M. Stolt, and J. Turenne. 2004. Soil Survey Interpretations for Ninigret Pond, Rhode Island. (NRCS 7)
- Cole, L.W. Nitrogen loading to Chincoteague Bay (MD, VA): a reassessment. 2004 Coastal Bays Nutrient Budget Workshop. Annapolis, MD (21)
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### ***2004 Workshops***

Applied Statistics Workshops for Coastal Parks in the Northeast. December 7-8, 2004. University of Rhode Island and the National Park Service, Gateway National Recreation Area, Brooklyn, New York. (49)

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Rodriguez, W. 2003. Remote sensing and landscape analysis of indicators of estuarine condition in the northeastern United States. Ph.D. Dissertation, University of Rhode Island, Narragansett, Rhode Island. (2)

***2003 Publications***

Psuty, N. P. and J.P. Pace. 2003. Meso-scale observations of sub-aerial beach volume periodicity. Proceedings, Coastal Sediments '03 (electronic media). Clearwater Beach, Florida. (30)

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Bell, R., M. Chandler, R. Buchsbaum, and C. Roman. Intertidal habitat inventory: Boston Harbor Island National Park Area. Boston Harbor Islands Science Symposium, Boston Museum of Science, October 7, 2003. Boston, Massachusetts.

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Roman, C.T., D.R. Cahoon, J.W. King, and M. Lawrence. Monitoring salt marsh development processes at Fire Island National Seashore: Are salt marshes keeping pace with sea-level rise? Fire Island National Seashore 4<sup>th</sup> Biennial Science Conference, March 24, 2003. Upton, New York. (11)

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Biennial Conference of the Estuarine Research Federation, September 14-18, 2003. Seattle, Washington. (11)

Roman, C.T., J.W. Portnoy, M.J. James-Pirri, and S.M. Smith. Restoring Cape Cod National Seashore salt marshes: quantifying responses to tidal restoration. George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites, April 14-18, 2003. San Diego, California. (48)

Smith, S.M., J.W. Portnoy, C.N. Farris, C.T. Roman, M.J. James-Pirri. Responses of *Phragmites australis* to tidal restoration of a diked salt marsh in Cape Cod National Seashore. Estuarine Research Federation, 17<sup>th</sup> Biennial International Conference, September 14-18, 2003. Seattle, Washington. (17 & 48)

Wozniak, A. S., M.-J. James-Pirri, C. T. Roman, S. C. Wainright, and R. A. McKinney. Monitoring the success of a salt marsh restoration by evaluating trophic relationships: A multiple stable isotope approach. Estuarine Research Federation, 17<sup>th</sup> Biennial International Conference September 14-18, 2003. Seattle, Washington. (6)

### ***2003 Workshops***

Workshop on Marine Protected Areas for Coastal National Parks of the Northeast. March 4-5, 2003. National Park Service and the University of Rhode Island, Narragansett, Rhode Island. (15)

**2002*****2003 Theses/Dissertations*****None*****2003 Publications*****None*****2002 Reports*****None*****2002 Presentations***

Granger, S., S. Nixon, L. Harris, J. Chaves, R. Fulweiler, C. Mueller, B. Sturgis, and A. Almario. A preliminary assessment of seagrass health and vitality in Assateague National Seashore's coastal bays. Understanding the Role of Macroalgae in Shallow Estuaries Conference, January 10-11, 2002. Linthicum, Maryland. (3)

James-Pirri, M.-J. and C.T. Roman. A new nekton sampler for salt marsh ditches. New England Estuarine Research Society, May 9-11, 2002. Bar Harbor, Maine. (17)

Nixon, S.W. (Plenary Speaker). Responses of shallow marine ecosystems to nutrient enrichment. Understanding the Role of Macroalgae in Shallow Estuaries Conference, January 10-11, 2002. Linthicum, Maryland. (3)

Paton, P. W. C. Avian Surveys in Boston Harbor Islands: Preliminary Results. Boston Harbor Islands 2002 Biodiversity Seminar, May 30, 2002. Boston, Massachusetts. (127)

Raposa, K. C.T. Roman, M.-J. James-Pirri. Monitoring nekton in shallow estuarine habitats. Symposium on Long-Term Ecosystem Monitoring at Cape Cod National Seashore, November 5-6, 2002. Eastham, Massachusetts. (17)

Roman, C.T. Salt Marsh Vegetation. Symposium on Long-Term Ecosystem Monitoring at Cape Cod National Seashore, November 5-6, 2002. Eastham, Massachusetts. (17)

Roman, C.T., J.F. Heltshe, M.J. James-Pirri. Monitoring salt marsh vegetation change: some thoughts on sample size. New England Estuarine Research Society, May 9-11, 2002. Bar Harbor, Maine.(17)



**2001*****2001 Theses/Dissertations*****None*****2001 Publications***

Nixon, S., B Buckley, S. Granger, J. Bintz. 2001. Responses of very shallow marine ecosystems to nutrient enrichment. *Human and Ecological Risk Assessment*. 7: 1457-1481. (3)

***2001 Reports*****None*****2001 Presentations*****None**

### Appendix 4: NAC-CESU Investigator Questionnaire

#### North Atlantic Coast CESU -- Investigator Questionnaire

**Project Title:**

**Principal Investigator:**  **University:**

**I. Undergraduates**

How many undergraduates were funded (part-time or full-time pay) on this project?  
Optional: List each student's name and which department they are from.

Number of Students:

Names:

**II. Graduate Students**

List the full citations for all completed Master's and PhD theses that were done based on this project (please include student name, degree received, department, title of thesis, and date).

How many graduate students received funding but did not base their thesis work on this project?  
Optional: List each student's name and which department they are from.

Number of Students:

Names:

**III. Presentations and Publications**

List all poster and oral presentations that were given at professional meetings based on this project (including title, date, and name of conference where presented).

List the citations for all publications based on this project, including both publications in peer-reviewed journals and any technical reports.

Additional comments:

Submit Form

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