Natural Resources Research Summaries for National Park Service Units within the Southeast Coast Network
Request for Pre-Proposals and Statement of Work
Summary and Request for Pre-Proposals

This project seeks to develop Natural Resource Research Summary Reports for twenty parks within the Southeast Coast Network: Canaveral National Seashore (CANA), Cape Hatteras National Seashore (CAHA), Fort Raleigh National Historic Site (FORA), Wright Brothers National Memorial (WRBR), Cape Lookout National Seashore (CALO), Castillo de San Marcos National Monument (CASA), Congaree Swamp National Monument (COSW), Fort Matanzas National Monument (FOMA), Chattahoochee River National Recreation Area (CHAT), Cumberland Island National Seashore (CUIS), Fort Frederica National Monument (FOFR), Fort Pulaski, National Monument (FOPU), Fort Sumter National Monument (FOSU), Charles Pinckney National Historic Site (CHPI), Horseshoe Bend National Military Park (HOBE), Kennesaw Mountain National Military Park (KEMO), Moores Creek National Battlefield (MOCR), Ocmulgee National Monument (OCMU), Timucuan Ecological and Historic Preserve (TIMU), and Fort Caroline National Memorial (FOCA). To accomplish this, the Southeast Coast Network desires to achieve the following objectives:

Phase I Objectives (to be completed by May 2004):

1. Develop a report containing issue-based abstracts that summarize natural history findings, natural resources research, and management issues of importance to each park (or group of parks if jointly managed).
2. Provide a database of scientific literature and topical bibliography for each park in ProCite format.
3. Develop a list of available digital maps, sources, and metadata, and whether those maps are available publicly or for purchase. For all spatial data, this list should include the following information: date, resolution, format, metadata, and price.
4. Develop a list of available publicly available data sets.
5. Develop a list of subject-matter experts / contacts database for each topic.

Phase II Objectives (to be completed by December 2004):

1. Acquire relevant GIS data and incorporate into NPS holdings.
2. Acquire relevant data sets and incorporate into relevant NPS data sets (i.e., NPSpecies).
3. Input or convert bibliographic data into NPS NatureBib database format.

The Southeast Coast Network hopes to develop one or more cooperative agreements to carry out the above objectives. Interested cooperators should submit a Pre-Proposal by Friday August 8, 2003 that includes the following:

1. A concise description of research methods and proposed work schedule for completing objectives above.
2. Estimated budget itemized by line item and group of parks as outlined below.

Potential applicants need not submit a proposal for work on all parks. It is possible that investigators will find it more cost effective or feasible to work on a subset of parks within a smaller geographic area to reduce travel costs, time, ease logistics, etc. (see groupings below). However, selection of final project(s) will be based partly on the cost to accomplish primary objectives at ALL parks, and the ability to achieve some or all of the secondary objectives at one or more of the parks.

It is anticipated that funding for cooperative agreements to be funded under this Request for Pre-Proposals will be awarded in FY 2003 so that work can started to coincide with the Fall Semester schedule at partnering CESU schools. Funding for individual projects will be funded through a combination of FY03 and FY04 dollars.

All Pre-Proposals should be directed by email to Joe DeVivo at joe.devivo@nps.gov.
Inventory and Monitoring Program Background

Baseline natural resource data is fundamental to the management of national parks. Natural resource inventories allow us to account for park resources, including the presence, class, distribution, and normal variation of plants and animals, and such important abiotic components as water, soils, landforms, and climate. Inventories contribute to a statement of the condition of park resources in relation to a standard condition, preferably the natural or unimpaired state. Inventories involve the compilation of existing information as well as the collection of new information.

During the initial period of the Inventory and Monitoring Program, the National Park Service is collecting information on the diversity of plants and animals in the parks, as well as the distribution of species of special management concern and threatened and endangered species. Maps of selected geophysical features such as soils and geology are being produced. A number of basic water chemistry parameters are being assessed in park wetlands, lakes, and streams. Air quality data also are gathered and evaluated.

As a part of the NPS Inventory and Monitoring Program, twelve baseline inventories are to be conducted for each park; one of those baseline inventories is the development of bibliography of existing information, reports, research, and other materials relevant to the management of natural resources on National Parks.

Information gathered during this “data mining” inventory is critical to the development of conceptual models and a consistent framework upon which long-term ecological monitoring plans will be developed.

The Southeast Coast Network

The Southeast Coast Network (SECN) contains twenty parks, seventeen of which contain significant and diverse natural resources. In total, SECN parks encompass more than 178,000 acres of federally-managed land across North Carolina, South Carolina, Georgia, Alabama, and Florida. The parks span a wide diversity of cultural missions also, including four National Seashores, two National Historic Sites, two National Memorials, seven National Monuments, two national Military Parks, as well as a National Recreation Area, National Battlefield, and Ecological and Historic Preserve. The parks range in size from slightly more than 20 to nearly 60,000 acres, and when considered with non-federal lands jointly managed with SECN parks the Network encompasses more than 242,000 acres.

For information on the Southeast Coast Network of Parks, please see: http://www.nature.nps.gov/im/units/nw14/

To date, a completed Natural Resource Summary Reports have been developed for four parks within the Network (Claxon and Renwick 1987c, b, d, a). Because those reports were written more than 15 years ago, we are looking to update those reports at this time.
Table 1
Groups of Parks within the Southeast Coast Network for which Natural Resource Research Summaries will be developed under this request for Pre-Proposals. References for existing research summary reports are given where available.

<table>
<thead>
<tr>
<th>Park Code</th>
<th>Park</th>
<th>Available References</th>
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<tbody>
<tr>
<td>Group 1</td>
<td>CAHA Cape Hatteras National Seashore</td>
<td>(Claxon and Renwick 1987b)</td>
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<td></td>
<td>FORA Fort Raleigh National Historic Site</td>
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<td>WRBR Wright Brothers National Memorial</td>
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<td></td>
<td>CALO Cape Lookout National Seashore</td>
<td>(Claxon and Renwick 1987c)</td>
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<td>Group 2</td>
<td>CANA Canaveral National Seashore</td>
<td>(Claxon and Renwick 1987a)</td>
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<td></td>
<td>CASA Castillo de San Marcos National Monument</td>
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<td>FOMA Fort Matanzas National Monument</td>
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<td>Group 3</td>
<td>CHAT Chattahoochee River National Recreation Area</td>
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<td>HOBE Horseshoe Bend National Military Park</td>
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<td></td>
<td>KEMO Kennesaw Mountain National Military Park</td>
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<td>Group 4</td>
<td>FOSU Fort Sumter National Monument</td>
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<tr>
<td></td>
<td>CHPI Charles Pinckney National Historic Site</td>
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<td>FOPU Fort Pulaski National Monument</td>
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<td></td>
<td>MOCR Moores Creek National Battlefield</td>
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<td>Group 5</td>
<td>COSW Congaree Swamp National Monument</td>
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<td>OCMU Ocmulgee National Monument</td>
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<tr>
<td>Group 6</td>
<td>CUIS Cumberland Island National Seashore</td>
<td>(Claxon and Renwick 1987d)</td>
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<td>FOFR Fort Frederica National Monument</td>
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<td></td>
<td>TIMU Timucuan Ecological and Historic Preserve</td>
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<td></td>
<td>FOCA Fort Caroline National Memorial</td>
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Project Objectives

1. Develop a report containing issue-based abstracts that summarize natural history findings, natural resources research, and management issues of importance to each park (or group of parks if jointly managed) to be used as a reference for NPS Natural Resource Managers, and for developing a long-term ecological monitoring program. Topic areas to be included in the report (abstracts and bibliography) will include where appropriate:

   a. Biological Communities
      i. Vegetation (species & communities)
      ii. Mammals
      iii. Reptiles & Amphibians
      iv. Birds
      v. Fish
      vi. Invertebrates (where appropriate)
vii. Threatened & Endangered Species
   b. Geology
   c. Soils
   d. Hydrology (groundwater & surface water)
   e. Water Quality
   f. Air Quality
   g. Ecosystem Studies (i.e., coastal dunes, rivers, wetlands, marine systems, estuaries…)
   h. Management Issues of Concern
      i. Exotic Species
      ii. Off-Road Vehicle Use
      iii. Adjacent Land Use impacts
   i. Weather / Climate
   j. Others as identified on a Park-by-Park basis.

2. Provide a database of scientific literature and topical bibliography for each park in ProCite format.

3. Develop a list of available digital maps, datasets, sources, and metadata, and whether those maps are available publicly or for purchase. For all spatial data, this list should include the following information: date, resolution, format, metadata, and price.

4. Develop a list of 3-5 subject-matter experts for each topic.

5. Acquire and integrate data into NPS data sets (Phase II).

**Expected Responsibilities of Cooperating Parties**

1. NPS contribution to the Project (justification of cooperative agreement):
   a. Provide substantive input into the development of the study methodology, recognizing that mutual participation is essential to the future success of management recommendations developed pursuant to this research.
   b. Provide a prioritized list of “Management Issues of Concern” to the cooperator.
   c. Assist with data management to facilitate reporting and completion of deliverables.
   d. Review, in a timely manner, drafts of deliverables at jointly-agreed upon milestones during the period of performance.
   e. Assist with developing work plan for Phase II of the project in order to prioritize data acquisition and coordinate efforts with other cooperators.

2. Cooperator (to be named) agrees to:
   a. Accomplish all objectives listed in the statement of work and to provide mutually-agreed upon “deliverables” following National Park Service specifications.
   b. Provide “drafts” of deliverables (abstracts and bibliographies) to NPS for use in developing the Southeast Coast Network long-term monitoring program.
   c. Enter all bibliographic data into the National Park Service databases provided by the Southeast Coastal Network.
d. Others as mutually agreed upon by the Southeast Coast Network and the cooperator.

Literature Cited


Questions should be directed to Joe DeVivo at:
Joe_DeVivo@nps.gov
404-562-3113 x739

NR Research Summaries for SECN parks - Statement of Work and RFPP
July 25, 2003