

Fall 2001

North Carolina Coastal Plains Paddle Trails Initiative

Final Report

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Acknowledgements

The original team members of the North Carolina Coastal Plains Paddle Trails Initiative were Tom Potter, Sue Lintelman, Jack Thigpen and Lundie Spence. However, the initiative could not have developed without the support, ideas, work and experience from many other people. We want to thank the following people specifically for their vision and energy:

Andrew Scott, Andy Zimmerman, Bryan Chitwood, Ward Swann, David Hodges, Mary Walter Rumley, Blount Rumley, Jackie P. Woolard, Steve Rebach, Glenn Bailey, Bill Avant, Chris Siderelis, Ken Shaffer, Cheryl Pearce, Rodney Johnson, Darrell McBane, Nate Butler, Roger Rulifson, Ann Pierce, Debra Lynch, Ann Green, Hans Vogelsong, Pam Malec, John Harris, Joe Jacob, John Hinners, Ann Coughlin, Richard Clark, Crystal Baity, Jim Bahen, Al Staats, David Jenkins, Shirley Schoelkopf, Natalie Springuel, Carol Kline, Arthur Joby, Tommy Arthur, Bill Obringer, Laura Smithwick, Connie Ascero and Grace Lawrence.

We encourage the continued expansion of paddle trails and awareness of North Carolina's natural resources. Many more people contributed their energy, and we thank them.

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A. Introduction

The North Carolina Coastal Plains Paddle Trails Initiative (NCCPPTI) has completed a series of projects designed to enhance paddling opportunities in the coastal plains. While the products promote existing paddle trails, the overall goal is to assist local communities with sustainable economic ventures based on the richness of the natural and cultural environments in and along the waterways of the coastal plains. In 1999, a team of individuals from the public and private sectors organized to develop a plan, fund it and provide for long-term involvement. While originally consisting of four members, the team expanded. Many of these people and their contact information are listed in Appendix 8.

This document highlights the accomplishments available to date through November 2001 and represents the final report of the initiative. Copies of the survey results and research proceedings are available as technical documents from North Carolina Sea Grant. Visit the Web: www.ncsu.edu/seagrant.

NCCPPTI Objectives

- 1. To develop a system of information dissemination that will provide background to the public related to existing water-based paddle trails and local infrastructure required for its support;
- 2. To determine what attracts paddlers to the waterways and the surrounding communities of coastal North Carolina and to determine the economic, environmental and quality-of-life impacts paddlers may have in the area;
- 3. To identify the local, state and federal governments, nonprofit and forprofit stakeholders and identify potential partners to develop successful paddling trails and better understand the potential benefits and costs; and
- 4. To design and produce a working symposium to evaluate existing and newly developed waterway materials, network operators and owners of infrastructure such as restaurants and lodging, and provide the opportunities to learn from experiences of other successful trail development initiatives.

B. Rationale

By early 1999, more than 12 groups had developed 141 individual trails, totaling approximately 1,200 miles in 23 eastern North Carolina counties, with assistance from the State Trails Program in the N.C. Division of Parks and Recreation. Other groups were working on developing an additional 800 to 1,000 miles of paddle trails. It was becoming apparent that there was an opportunity to develop an extensive system of paddle trails in eastern North Carolina that could extend over more than 3,000 miles. With such a considerable resource and the potential to provide significant economic impacts in local communities throughout eastern North Carolina, a consolidated effort was needed to begin marketing eastern North Carolina as a destination for paddlers.

The initial question: how can existing and future paddle trails be marketed in a more efficient manner? In order to understand the market, three initial objectives were set: surveying consumers and providers; identifying the obstacles to development; and presenting a strategy for public action.

To meet the objectives, funds were needed for materials and labor. Early discussions were among Andy Scott, Coastal Carolina Press; Lundie Spence and Jack Thigpen, North Carolina Sea Grant; Sue Lintelman, Partnership for the Sounds; Tom Potter, formerly with the State Trails Program, N.C. Division of Parks and Recreation; and Andy Zimmerman, then CEO of Confluence Watersports Co. This discussion led to a coalition that became the North Carolina Coastal Plains Paddle Trails Initiative (NCCPPTI). Members of NCCPPTI developed the project description and objectives, which were submitted as a project proposal to Zimmerman who agreed to fund a \$72,846 grant to North Carolina Sea Grant at North Carolina State University.

The products proposed in the grant were designed to address the original objectives. They included a survey to determine the needs and wants of paddlers in choosing a destination, a symposium to present research and topics on ecotourism and paddling, and an inventory of coastal plains paddle trail maps available on the Web and in print. This project focused on existing paddling trails — east of Interstate 95 and inclusive of most of North Carolina's coastal plains — and a strategy for adding new trails.

C. Paddle Trails of the Coastal Plains

In North Carolina, all waterways are considered public trust waters, which means they can be used by anyone. The State Trails Program adopted the following criteria for the development of paddle trails on public trust waters:

- (1) A request by the local government having jurisdiction to have the waterways designated as paddle trails;
- (2) Management of the trail by an agency or organization;
- (3) Description of ownership for access sites and other facilities that support the trail, such as camping, etc.;
- (4) Description of the trail in relation to urban areas and population within a two-hour drive, including appropriate maps;
- (5) Degree of difficulty in terms of physical exertion and skill required of the trail users;
- (6) Trail length;
- (7) Trail description, including rate of water movement, normal affects of winds, tides, distances between access sites or camping facilities, identification of other groups that might use the trail such as fishers, barge companies and water skiers and approximate travel times between access sites or camping facilities;
- (8) Description of vegetation and wildlife that occur along the trail;
- (9) Description of surrounding land uses along the trail;
- (10) Areas connected by the trail, such as recreation areas, wildlife preserves, and general points of interest;
- (11) Facilities available along the trail, such as potable water, picnic areas, bathroom facilities, camping, guides/tours, other services;
- (12) Special features along the trail;
- (13) Description of management plan for the trail;
- (14) Description of any fees charged for use of the trail or trail facilities;
- (15) Description of any major existing or potential problems and probable solutions; and
- (16) Published trail guide for the trail.

Through the State Trails Program, an inventory was conducted on all existing paddle trails that met the designation requirements. The coastal plains paddle trails were included on the Web site for the coastal plains trails guide.

D. Product Reports

1. Coastal Paddlers' Survey

The coastal paddlers' survey was designed to determine what attracts paddlers to eastern North Carolina and determine the type of infrastructure desired by these users to make their trail outings more enjoyable and measure paddlers' economic impacts on the coastal plains. The population for the survey was defined as individuals who have paddled (kayaked or canoed) in the North Carolina coastal plain area (east of Interstate 95) within the last year.

Three methods were used to solicit respondents. A one-page letter was sent to approximately 600 individuals whose names appeared on a mailing list of people who had requested information about coastal paddling from resource development and state park sources.

Second, 11 commercial paddling businesses geographically dispersed throughout North Carolina, plus an outlet in Tidewater, Va., and another outlet in Charleston, S.C., were contacted. These businesses agreed to send a one-page cover letter to customers on their mailing lists.

Third, the sampling process to solicit respondents was supplemented by using the Web. The project description and the request for survey participants was posted on participating paddle clubs, associations, outfitter and other e-mail list servers in North Carolina, South Carolina and Virginia.

A one-page letter describing the research objectives and purposes of the paddling study was sent to potential survey respondents along with postage-paid postcards. A total of 601 individuals returned completed postcards. These people had gone canoeing and/or kayaking during 2000 and agreed to participate in the survey.

From seventy percent of the returned survey forms, Chris Siderelis and his graduate students, Glen Bailey and Bill Avant from the NC State Department of Parks, Recreation and Tourism Management, keyed in the responses and analyzed the data. The findings indicate the following points about paddlers in eastern North Carolina waters:

- More than two-thirds are professionals or managers, 15 percent are retired,
 and nearly 1/3 have annual household incomes over \$90,000.
- They don't want limited access to paddling waters. However, they do want more paddle trails, more access points, more information and separate access points from powerboats.
- They are attracted to paddling areas by unpolluted waters, sounds of nature, fresh air, wild animals and birds, getting away from the city and local history and culture.
- They are concerned about theft of articles from their vehicles while paddling and access to medical care in remote areas.
- They feel they have a positive impact on local community pride, new business creation and job creation.
- They feel they may have a negative impact on congestion at water access points, competition for water recreation, highway congestion, litter and waterfowl.

The complete survey results can be obtained from North Carolina Sea Grant.

Refer to *The State of North Carolina Coastal Paddling Survey*, UNC-SG-01-06.

2. Development of the GIS Database of Paddle Trails

Tom Potter, who was the eastern trails specialist with the N.C. Division of Parks and Recreation, acted as the point person for identifying paddle trails to be included in the mapping projects. Potter provided the staff at the North Carolina Center for Geographic Information and Analysis (CGIA) with a variety of formats of existing paddle trails to be converted into a digitized format.

Once the GIS layer was developed, it was utilized on the Web and in a printed guide. The maps included trail lengths with mileage indicators along the trails, access sites, camping sites, and other information related to the trail.

To facilitate the inventory of the trails, the coastal plains of eastern North Carolina was divided into eight regions that roughly represented the river basins.

A cataloguing number was assigned to each trail and made up by the first two letters of the region name, the first two letters of the county in which the trail is located, and the sequential number of the trail located in each individual county. In cases where a trail was located in multiple regions or counties, the trail name contains the representative letters for each region and county. This allows the trails to be identified by a specific number so that additional trails from each individual region could be added in a consecutive order.

Using GIS technology, existing trails were inventoried and designated on a digitized and Web-based coastal map. The geographic area of this inventory was east of Interstate 95. Trail maps of existing paddle trails were supplied by the Trails Program to NCCPPTI coordinator Glenn Bailey, a NC State research assistant. Bailey was the liaison between the NCCPPTI and the CGIA GIS analyst who developed a digitized data layer of the paddle trail routes, access sites and other information. This information was used to develop an inventory that was made available to the public via a Web-based, clickable map that is hotlinked to infrastructure information home pages, such as local chambers of commerce, commercial ventures, and cultural and environmental sites as well as state and university Web sites.

The trail inventory process created a model of how water trails can be integrated into a rich database located on a Web site and demonstrated how future water trails can be promoted. The benefit of this effort is that interested paddlers or curious vacation planners from North Carolina or elsewhere can easily gain information about the paddling resources of the coastal plains.

3. Coastal Plains Paddle Trails Web Site

The Center for Geographic Information and Analysis (CGIA) was contracted to design the Web site for the NCCPPTI project, including the home page and the GIS layers for trails according to the design. The Web site also provided key links to state agencies and other resources. When completed, the Web site was transferred from CGIA to NC State (www.ncsu.edu/paddletrails) and then linked to the N.C. Division of Parks and Recreation (http://ils.unc.edu/parkproject/nctrails.html). This linked system is designed to be temporary until the N.C. Division of Parks and Recreation can accept the site into its system. The emerging North Carolina Paddle Trails Association will partner with the N.C. Division of Parks and Recreation to assist with new trail identification and revision to the existing information on the Web.

4. Printed Guide to North Carolina Coastal Plains Paddle Trails

CGIA provided the design and format for the hard copy guide. The objective was to produce a foldable paper map with the main trails identified and pertinent information to lead the paddler to other information and resources, specifically the Web site. The underlying philosophy is that the local groups who maintain the paddle trails are the best resources for accurate knowledge about the state of the trails, points of interest and support.

Technically, the map and text portions of the printed guide were created using the ArcPlot® in the ESRI ArchInfo® GIS software. Individual scripts were coded to create each side of the printed guide. The final files were sent to Progress Printing, a commercial printer in Lynchburg, Va., that produced 35,000 double-sided, full-color maps. The final printed map has a slight color variance from the source files but still appears very similar to the maps presented on the Web site.

The NCCPPTI team determined the distribution of the first printing of 35,000 maps. Tom Potter received boxes of maps at Cliffs of the Neuse State Park and separated them for distribution as follows:

- 5% North Carolina Sea Grant (1,740 that North Carolina Sea Grant will mail to each of the symposium registrants. Remainder will be distributed as needed);
- 20% N.C. Parks and Recreation (7,000 that will be provided to the public);
- 10% Partnership for the Sounds (3,500 that will be on public display at their various centers: N.C. Estuarium, Columbia Theater, Roanoke-Cashie River Center;
- 30% N.C. Division of Travel and Recreation (10,500 will be distributed to Interstate Welcome Centers);
- 10% Confluence (3,500 to be sent in bulk to retailers); and
- 25% (8,750 to be mailed in bulk groups to outfitters coming to the symposium).

The printed guide can be ordered at no charge from the N.C. Dept. of Parks and Recreation, 1615 MSC, Raleigh, NC 27699.

5. Revision and Maintenance Strategy for the GIS Layers for Web and Printed Guide

Preliminary plans have been made between the N.C. Division of Parks and Recreation and North Carolina Sea Grant to maintain the existing Web information. The webmaster at Sea Grant will provide minor updates or changes through 2002.

The newly formed North Carolina Paddle Trails Association (NCPTA) has been asked to be the liaison between the N.C. State Trails Program and paddling clubs and local agencies that want to submit new trails that comply with established criteria set by the N.C. Division of Parks and Recreation.

The plan is to contract annually with CGIA to update the GIS layers with new trails on the Web site. Revisions to the printed copy will depend on CGIA for the updated template. The NCPTA will solicit private and public funds for reprinting costs.

6. Coastal Plain Waters 2001 Symposium Planning Workshop

The members of the North Carolina Coastal Plains Paddling Trails Initiative held a planning workshop May 22, 2000, at Goose Creek State Park. Fifty targeted users of coastal plains paddling trails were invited, including staff from state and federal parks and environmental and nonprofit organizations (Appendix 8). Their purpose was to identify the objectives needed for a symposium and possible speakers. At the workshop, the group established an agenda, identified volunteers and additional funding sources from the public and private sectors. The concept received full support from the participants.

Tom Potter, formerly with the N.C. Division of Parks and Recreation, introduced the topic — "What are the goals of NCCPPI?" to solicit discussion on how local communities can increase the number of paddlers in their areas. Jack Thigpen of North Carolina Sea Grant presented a paddler's profile from the preliminary results of the coastal paddlers' survey.

Chris Siderelis of NC State and Ken Shaffer of the N.C. Center for Geographic Information and Analysis recommended a research symposium to be part of the paddling symposium. Shaffer also gave an overview of efforts to build a Web-based information system for the trails.

The group chose the symposium dates and location — March 30 to April 1, 2001, at the Washington Civic Center, a renovated train station in the historic section of Washington. The symposium would be divided into a three-part program to include: (1) research trends; (2) public presentations of paddling operations, safety, environmental impacts; and (3) a series of field trips to allow participants to experience coastal paddling trails near Washington.

7. Human Dimensions of Coastal Recreation Research Conference

A call for papers went out to universities, agencies and nonprofit organizations in North Carolina and along the East Coast to solicit research articles on paddling and ecotourism. Steve Rebach, associate director, North Carolina Sea Grant; Chris Siderelis, NC State; and Jack Thigpen, extension director and recreation and tourism specialist, North Carolina Sea Grant; selected presenters and manuscripts. The Friday portion of the paddling symposium was designed to engage members of the research community involved with ecotourism and recreational water sports in relation to efforts to build sustainable economic development in rural areas through paddling trails.

The speakers contributed to the research conference by presenting their manuscripts. Published proceedings of 13 articles (Appendix 6) were edited by Rebach and distributed to conference participants. More than 66 participants were present.

In the second section of the research conference, the participants provided their opinions on the future direction of coastal recreation research and helped identify topics and funding sources.

Thigpen led the structured discussion in which participants identified the following 26 research needs:

- (1) Determining the impacts of paddling activities on wildlife;
- (2) Evaluating the impact of the N.C. coastal paddle trail Web site on paddling activity and coordinating with other paddling Web sites;
 - (3) Identifying guide sources and operators;
- (4) Assessing the need and value of guide services, such as willingness to pay and benefits of guide services on paddlers' behavior;
 - (5) Determining whether certification/guide training is needed;
- (6) Evaluating education and promotional efforts to encourage paddlers to follow "low impact on the environment" recommendations, such as "Leave No Trace;"
- (7) Developing a management plan for the coastal paddling initiative that provides login location and a clearinghouse of plans;

- (8) Developing a survey that collects baseline data on paddlers' destinations, perceptions and environmental attitudes as well as economic impacts of paddling activities;
 - (9) Finding out how to help local communities gear up for more paddlers;
 - (10) Researching "user" attitudes;
 - (11) Providing a cultural and resource inventory of the region;
- (12) Joining with regional projects in North Carolina, South Carolina and Georgia;
- (13) Finding out if there is a need for both a national and international waterway trail;
- (14) Avoiding the overuse of paddling trails and determining each trail's "carrying capacity;"
 - (15) Determining the feasibility of assessing an "annual fee" or license to paddle;
 - (16) Surveying personal watercraft users;
 - (17) Comparing the "environmental ethics" of coastal and inland waterway users;
 - (18) Studying barriers and constraints to paddling participation;
- (19) Researching public opinion/perceptions of restricting waterway access by vessel type;
 - (20) Identifying volunteer resource needs and locating volunteers;
- (21) Providing a roster of clubs, guide services and certified guides in the coastal plains and piedmont;
- (22) Researching the risks and liabilities for private landowners who offer their lands for paddling access or activities;
 - (23) Researching local attitudes toward paddling activities;
 - (24) Researching the "commercial use of land/for profit" issue;"
- (25) Identifying sustainable business opportunities for paddling access and activities; and
 - (26) Studying corporate benefits of providing "private property" for paddling.

On Saturday, the second part of the Coastal Plains Water 2001 Symposium was held to engage the paddling community — from paddlers, outfitters and environmentalists to community development groups and national organizations. Lundie

Spence, Sue Lintelman and Mary Walter Rumley coordinated the Coastal Paddling symposium. Over 120 participants took part (Appendix 5).

On Sunday, novices to paddling experts participated in field trips. Brian Chitwood from Confluence Watersports Co., and Ward Swann, president of the North Carolina PaddleTrails Association, led the trips.

However, the agenda for Sunday's field trips was shortened to a half day due to bad weather. Only the morning field trips were held. The afternoon sessions were cancelled. About 55 paddlers took trips to Goose Creek State Park, the Pamlico River adjacent to downtown Washington and Chocowinity Bay trails.

Confluence Watersports Co., provided 30 kayaks. Safety boats accompanied each group. U.S. Coast Guard clearance forms were submitted, and Coast Guard auxiliary personnel were present. Guides accompanied paddlers on the two- to four-hour trips.

An important part of the three-day event was social networking. Participants from Maine to Georgia spent time getting to know each other and finding out what each state was doing. Time was allowed for information discussion at social functions.

The N.C. Partnership for the Sounds hosted the Friday evening reception at the N.C. Estuarium. Progress Energy provided funding, with Blount Rumley from the Estuarium providing the logistical support for the reception and the site for the field trip orientation. Jackie P. Wollard, director of the Partnership for the Sounds, welcomed the participants.

The Mid-East Resource Conservation and Development Council, Inc., of Greenville, N.C., hosted the barbecue dinner on Saturday night. David Hodges, council executive director, served as the group's liaison and handled the logistics. As a full partner in the NCCPPTI, Hodges provided insight into local issues. Roger Rulifson of East Carolina University and his band, The Elderberry Jam Band, provided the music for the contra dance after the dinner.

NCCPPTI hired Mary Walter Rumley of Washington, N.C., as the overall conference coordinator. Rumley's local contacts and knowledge of resources was invaluable.

North Carolina Sea Grant communicator Ann Green handled the media releases and invited newspaper and television reporters to the conference. On Saturday morning,

WITN-TV in Washington interviewed Lundie Spence of North Carolina Grant and Bryan Chitwood of Confluence Watersports.

8. Formation of the North Carolina Paddle Trails Association

Andy Scott, Andy Zimmerman and Tom Potter were convinced that this conference would provide the initiative to create a paddling association that would focus on the development of more paddle trails and access and serve as an umbrella organization for paddle clubs and outfitters throughout the state.

Because of the contacts of Andy Zimmerman, then CEO of Confluence Watersports Co., several national and state leaders from paddling, research and tourist organizations and agencies were invited to the events. They included Al Staats, North American Water Trails; David Jenkins, American Canoe Association; Karen Simpson, Maine Island Trail Association; Carol Mullis, South Carolina Travel and Tourism; and Natalie Springuel, Maine Sea Grant. These experts provided valuable input and guidance. On Saturday evening, participants gathered for a formative session that led to the new association's organizational meeting on June 5, 2001.

To contact the association, write: NCPTA, PO box 1434, Washington, NC 27889, ncpaddletrail@yahoo.com or visit the Web: http://www.ncpaddletrails.org.

9. Media Coverage

The coastal plains research conference and symposium received prominent coverage from several publications and television stations in North Carolina and Virginia. In February, the *News & Observer* featured paddling trails in an entertainment section cover story. The symposium also was highlighted in *N.C. Wildlife Magazine*. In addition, Lundie Spence was interviewed by WITN-TV in Washington during the weekend of the symposium.

After the event, Jack Thigpen and Tom Potter were interviewed for a feature story on WVEC-TV in Norfolk.

An article on the symposium by Ann Green appeared in the High Season 2001 issue of *Coastwatch*, the flagship magazine for North Carolina Sea Grant (Appendix 7).

10. Finances & Funding

Several sources provided the funding for NCCPPTI. Table 1 reflects income. Table 2 reflects the expenses incurred as of June 11, 2001. Table 3 reflects the staff time donated to develop this project. Staff from North Carolina Sea Grant, East Carolina, NC State, the N.C. Division of Parks and Recreation, the N.C. Partnership for the Sounds and Confluence Watersports Co., made up the major in-kind contributors.

Some of the funds associated with the registration will be used to support the formation of the North Carolina Paddle Trails Association. Residual funds from Confluence Watersports Company's grant will be returned to them.

Table 1: Income and Sources of funding

Sources of Funds	Amount	Total Amount
Confluence Watersports Co.	72,846	
NCDENR	3,500	
NC Sea Grant	1,600	
Progress Energy (Partnership for the Sounds) Reception	1,000	
Mid-East Resource Conservation and Development Council, Inc. (Dinner)	2,000	
Registration Receipts	3,500	84,446

Table 2: Approximate Expenses Involved with each of the NCCPPTI Products (as of June 11, 2001)

Product	Identified Expense	Cost	Product Total	Total
Survey of Paddler's Needs	Graduate Student	17,354	28,133	
	Printing survey forms	2,290		
	Mailing	1,489		
	Final Report/printing	800		
GIS Data for Web and	CGIA	15,933	25,941	
Hardcopy Map	Progressive Printing	10,000		
	NCSU WEB Locker Space	8		
Communication	Telephone	15	15	ĺ
	Publication of 4	2,600	2,600	
	manuscripts			
Coordination Meetings	Umstead State Park	30	115	
	Goose Creek State Park	85		
Symposium	Meeting Place	2,204	8,589	
	Washington Civic Center	1,110		
	Coordinator(M. Rumley)	2,000		
	Reception	1,000		
	Dinner	2,000		
	Dance	275		
Travel Expenses	Team members travel to	1,507	2,007	•
	meetings and symposium			
	NAWT Travel Scholarship	500		
General Supplies	Central Stores	73	227	
	Kinko's, Wolf Copy	54		
	NAWT Books	200	i	
Subtotal			58,827	
NSCU 15% Overhead	9,502		9,502	70,229

Table 3: Staff Time Contributions

Name	Man-Months (estimated) of Matching Effort
Tom Potter	2.0
Lundie Spence	2.0
Jack Thigpen	1.5
Steve Rebach	1.0
Sue Lintelman	2.0
Chris Siderelis	0.5
David Hodges	0.5
Ward Swan	1.0
Brian Chitwood	1.0
Debra Lynch (N.C. Sea Grant, secretary)	1.0
Ann Green (N.C. Sea Grant, communicator)	1.5

E. Appendices

Appendix One: Survey instrument

Appendix Two: Final report of the survey cover & table of contents Appendix Three: Printed guide cover and sample of Web-based guide

Appendix Four: Research agenda
Appendix Five: Symposium agenda

Appendix Six: Research proceedings cover & table of contents

Appendix Seven: Media coverage

Appendix Eight: Goose Creek participants
Appendix Nine: Announcement Brochure

Appendix One: Survey Instrument

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Appendix One Mail survey of paddle trail users

North Carolina Sea Grant

MAIL SURVEY OF PADDLE TRAIL USERS

This survey is part of a major study of individuals who kayak and canoe on water trails in North Carolina, east of Interstate 95. Important information is needed to expand and maintain water access, design new launching areas, and generally make your paddling experience as enjoyable as possible. Please take the time to answer the following questionnaire EVEN IF YOU HAVE NOT BOATED ON A WATER TRAIL RECENTLY. The questions ask about how and why you use water trails in North Carolina and your opinions about the management of trails. Please read the instructions at the beginning of each section.

Your participation in this survey is voluntary. Since you are one of only a small number of randomly selected individuals, you will be representing many others that we were unable to include. Therefore, your cooperation is extremely important. All of your responses are confidential. When you have completed the survey, please place it in the postage paid envelope and drop it in the mail. The number in the upper corner of this page is for mailing purposes only. We will use this number to remove your name from our mailing list when we receive your completed questionnaire. If you have any questions, please feel free to contact us. Thank you for your assistance.

Jack Thigpen Coastal Recreation & Tourism Specialist (252) 441-3663

Glenn Bailey Paddle Trail Initiative Coordinator (919) 515-3276

- ITEM A. TOTAL TRIPS. In the first space after the name of the paddling area, please write the total number of trips you made during the last 12 months. If you made no trips to that river basin in the last 12 months, then you should leave the row blank and skip down to the next paddling area on the list.
- ITEM B. MILES, ONE-WAY, TO LAST SITE VISITED. Look at the map. Please write-in the number of miles, one-way, you traveled during your last trip to a site in that paddling area.
- ITEM C. HOW MANY PEOPLE (including yourself) WERE IN YOUR BOATING GROUP? Record the number of people, including yourself, who were with you during your last trip to each of the paddling areas.
- ITEM D. PRIMARY PURPOSE OF YOUR LAST TRIP. In the first column after the names of the paddling areas, please check the purpose of your last trip you made to each of the paddling areas.
- ITEM E. WHAT WAS YOUR LENGTH OF STAY (days) AT YOUR MOST RECENT PADDLING LOCATIONS? Record the number of days that you spent at your most recent paddling locations at each of the paddling areas.
- ITEM F. HOW MUCH TIME DID YOU SPEND PADDLING? In the next spaces under column F, write in the number of days that you spent canoeing the water trails, rivers, or sounds. If the time you spent paddling was the same as your length of a stay, then leave it blank.

SECTION 1. GENERAL INFORMATION

We would appreciate a few minutes of your time to answer this survey. For our survey, a paddling trip consists of putting-in, paddling a river corridor or other body of water, and taking-out.

1.	Where do you live?	
	City/Town State Zip Code	-
2.	Did you take any paddling trips during the last 12 months?	
	NO (If "NO," please skip to PART 2 on the last page)	
	YES (Continue)	

SECTION 2. YOUR PADDLING TRIPS DURING THE LAST 12 MONTHS

We would like to learn about your use of the nine paddling areas along the North Carolina Coast. Inserted in your questionnaire is a map that displays the nine paddling areas. Use the map to find the paddling areas you visited during the last 12 months. The questions are about your trips. Please include only trips you made. For the nine paddling areas, please provide the information asked for in the tables. We label each table column with a capital letter. More detailed instructions for completing each question are on the following page. You may refer back to the instructions on the next page to assist you in answering the questions. The instructions are organized by column heading beginning with ITEM A.

QUESTIONS ABOUT YOUR PADDLING TRIPS:

Please complete the table about your trips to the nine paddling areas during the last 12 months. If you did not visit a paddling area, please leave the row blank.

IF YOU TOOK NO TRIPS TO ANY OF THE NINE PADDLING AREAS IN NORTH CAROLINA DURING THE LAST 12 MONTHS, THEN SKIP TO PART 2.

PADDLING AREAS	ITEM A	ITEM B	ITEM C
PLEASE USE THE MAP INSERT TO FIND PADDLING AREAS YOU VISITED	TOTAL TRIPS TO EACH AREA	MILES, ONE WAY, TO LAST WATERWAY USED IN EACH AREA	NUMBER OF PEOPLE IN YOUR GROUP, INCLUDING YOU, TO LAST TRAIL USED IN EACH AREA
1. Albemarle	Trips	Miles	People
2. Outer Banks	Trips	Miles	People
3. Pamlico Peninsula	Trips	Miles	People
4. Lower Neuse	Trips	Miles	People
5. Carteret	Trips	Miles	People
6. Southern Coast	Trips	Miles	People
7. Cape Fear	Trips	Miles	People
8. Upper Neuse	Trips	Miles	People
9. Roanoke and Tar	Trips	Miles	People
10. Other Rivers	Trips	Miles	People

PADDLING AREAS		17	TEM D		ITEM E	ITEM F
	PRIMARY F	PURPOSE OF Y (check	LENGTH OF STAY IN EACH AREA	TIME SPENT PADDLING IN EACH AREA		
	Go Paddling Only	Part of Vacation	Visit Friends or Relatives	Part of Work Related Trip		AREA
1. Albemarle	-	-	-	-	days	days
2. Outer Banks	_	-	-	-	days	days
3. Pamlico Peninsula	~	-	-	-	days	days
4. Lower Neuse	-	- -	_	-	days	days
5. Carteret	-	-		-	days	days
6. Southern Coast	-	_	-	_	days	days
7. Cape Fear	-	-	_	-	days	days
8. Upper Neuse	_	-	-	-	days	days
9. Roanoke and Tar	_	-	~	-	days	days
10. Other Rivers	_	_	_	- .	days	days

SECTION 3. TRIP EXPENSES FOR YOUR LAST PADDLING TRIP

PLEASE, LOOK AT THE MAP INSERT.

In which area did you last paddle? (Check one box.)

	Outer Banks	Pamlico Peninsula	Lower Neuse	Carteret	Southern Coast	Cape Fear	Upper Neuse	Roanoke/ Tar
--	----------------	----------------------	----------------	----------	-------------------	-----------	----------------	-----------------

ON YOUR LAST PADDLE TRIP, HOW MANY PEOPLE WERE IN YOUR TRAVEL GROUP? People

HOW MUCH MONEY DID YOU AND YOUR ENTIRE GROUP SPEND ON YOUR LAST PADDLING TRIP IN EASTERN NC?

Please estimate the total amount of money that you and the people with you spent on your LAST PADDLING TRIP. PLEASE, LOOK AT THE MAP INSERT. If you traveled through a paddling area, please record any trip expenses in the appropriate expense categories that you and your travel party had while in that area. If you did not visit a paddling area, please leave the column blank.

Expense Categories	1 Albemarle	2 Outer Banks	3 Pamlico Peninsula	4 Lower Neuse	5 Carteret	6 Southern Coast	7 Cape Fear	8 Upper Neuse	9 Roanoke/ Tar
Lodging	\$	\$	\$	\$	\$	\$	s	\$	\$
Restaurant meals	\$	\$	\$	\$	\$	\$	\$	\$	\$
Gasoline, oil, auto repairs	\$	\$	\$	\$	\$	\$	\$	\$	\$
Food, ice, beverages	\$	s	\$	\$	\$	\$	\$	\$	\$
Other retail purchases	\$	\$	\$	\$	\$	\$	\$	\$	\$
Boat rentals, access fees	\$	\$	\$	\$	\$	\$	\$	\$	\$
Guide or outfitter services	\$	\$	\$	\$	\$	\$	\$	\$	s
Canoe, kayak, or equipment purchase	\$	\$	\$	\$	\$	\$	\$	\$	\$

SECTION 4. MANAGING PADDLE TRAILS

If you had the opportunity to appoint ONE organization to manage the network of paddle trails in North Carolina, which organization would that be?

_ Statewide paddle trail association	I	ocal govern	ments	
Statewide user group member association		state governn		
_ Statewide nonprofit membership organization		Other (please		
Which organization(s) should pay for the upkeep and op (You may check more than one organization.)	eration of pado	lle trails in l	North Carolina?	
_ Statewide paddle trail association	L	ocal governi	nents	
Statewide user group member association		tate governn		
Statewide nonprofit membership organization		ay-as-you-go		
_ Statewide Paddle Craft Registration System with fees		ther (please		
By which of following methods could officials best manage (You may check more than one item.) _ User fees Use of free reservation _ Parking area permits _ Paddle Craft Decal with _ User group member as _ Camping Fees _ Other (please specify_	ns ith reservations ssociation	s to the pad	dle trails?	
Given the conditions at the paddle trail that you last used of the following management alternatives? (Check the column that best indicates your feelings.) MANAGEMENT ALTERNATIVES	, to what degree		support or oppos UNDECIDED	e each
Develop additional PADDLE TRAILS	-	_	-	
Develop additional ACCESS SITES	_	-	-	
Develop separate ACCESS SITES from power boats	_	_	_	
Limit ACCESS to a certain number of paddlers per day	_	-	_	
Provide more SIGNS, MAPS, and BROCHURES for paddle trails	-	-	-	
Provide more infromation about local services, restaurants, lodging, guides, and emergency services	_	_	-	

We want to explore your reaction to charging an ACCESS USER FEE for paddle trails. (All fee situations listed below are purely hypothetical.)

Suppose there is an annual fee of \$5 for a permit to access the paddle trails. User fees would provide more signs, maps, and brochures, as well as, more information about local services, restaurants, lodging, guides, outfitters, and emergency services.

Would you purcha	se an annual permit for \$5?		
	Yes, I would purchase the annual page	idle trails permit	
	No, I would not purchase the annual		
	ne \$5 permit, how many more trips wo I would take MORE trips. About ho I would take FEWER trips. About h	w many MORE?	trips
more information t	e is an annual fee of \$25 (\$50) for a per to paddlers, the additional money from ites, and separate access sites from pov	the permits would dev	elop additional paddle trails.
Would you purchas	se an annual permit for \$25(\$50)?		
_	Yes, I would purchase the annual pad	dle trails permit	
-	No, I would not purchase the annual	paddle trails permit	
paddle trails?	e \$25 (\$50) permit, how many more tr I would take MORE trips. About ho I would take FEWER trips. About h	w many MORE?	trips
	I would take the SAME NUMBER o		trips
_ Yes	construction of OVERNIGHT CAMP	ING SITES along the	waterways?
lf you had your ch	oice, what would be the ideal distan	ce between an access p	point and an overnight campsite?
CANOEING (Che	ck one.)	KAYAKING (Chec	k one.)
_ 5 or less miles		_ 5 or less miles	
6 to 10 miles		_ 6 to 10 miles	
_ 11 to 15 miles		_ 11 to 15 miles	
_ 16 and more mile	:s	_ 16 and more miles	3
undecided		undecided	

if you support the need for campsites, answer the following questions. Think about the area in which you took your last paddling trip. Imagine that the overnight campsite is the ideal distance from your access point.
Consider a camping area with clusters of camping sites for large group of 13 or more people. Suppose the daily camping fee is \$15. How many overnight trips would you take to this type of site in the area of your last paddling trip during the next 12 months?
I would take MORE trips. About how many MORE trips? I would take FEWER trips. About how many FEWER trips? SAME NUMBER of trips.
Consider a camping area with clusters of camping sites for medium group of 9 to 12 or more people. Suppose the daily camping fee is \$17. How many overnight trips would you take to this type of site during the next 12 months?
_ I would take MORE trips. About how many MORE trips? _ I would take FEWER trips. About how many FEWER trips? _ SAME NUMBER of trips.
Consider an individual camping site Suppose the daily camping fee is \$25. How many overnight trips would you take to this site during the next 12 months?
_ I would take MORE trips. About how many MORE trips? _ I would take FEWER trips. About how many FEWER trips? _ SAME NUMBER of trips.

SECTION 5. PERCEIVED IMPACTS ON ECONOMY, ENVIRONMENT, AND QUALITY OF LIFE

Please CIRCLE the choice that best describes your usual preferences and/or perceptions.

When I paddle I:	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
like to eat at local cafes and restaurants	SA	Α	N	D	SD
like to stay at local campgrounds	SA	Α	N	D	SD
like to meet the locals	SA	Α	N	D	SD
like to get a feel of local culture	SA	Α	N	D	SD
like to find out about the local history	SA	A	N	D	SD
like to look for local art and crafts to buy	SA	Α	N	D	SD
like being away from the city	SA	Α	N	D	SD
want to breathe fresh air	SA	Α	N	D	SD
want to paddle in unpolluted waters	SA	Α	N	D	SD
want to see birds	SA	Α	N	D	SD
want to see wild animals	SA	Α	N	D	SD
want to catch fish	SA	Α	N	D	SD
like to hear the sounds of nature	SA	Α	N	D	SD
worry about getting my car broken into	SA	Α	N	D	SD
fear that locals may hassle me	SA	Α	N	D	SD
do not want to eat local food	SA	Α	N	D	SD
feel that locals often stare at me	SA	Α	N	D	SD
can't find a decent meal	SA	Α	N	D	SD
am leery of sleeping at a local motel	SA	Α	N	D	SD
worry about my safety	SA	A	N	D	SD
am a long way from medical attention	SA	Α	N	D	SD

SECTION 6. INCREASED PADDLING IN RURAL AREAS

New paddlers to a rural area can have both positive and negative impacts. Please tell us how you feel increased paddling may impact the following aspects of rural paddling areas:

IMPACTS OF INCREASING THE NUMBER OF PADDLERS

		PADDLERS			
	Very Negative	Moderately Negative	None	Moderately Positive	Very Positive
Local jobs	1	2	3	4	5
New business opportunities	1	2	3	4	5
Local public services	1	2	3	4	5
Property taxes	1	2	3	4	5
Property values	1	2	3	4	5
Water quality	1	2	3	4	5
Plant life	1	2	.3	4	5
Animal life	1	2	3	4	5
Litter	1	2	3	4	5
Waterfowl	1	2	3	4	5
Crime	1	2	3	4	5
Congestion for locals at water access sites	1	2	3	4	5
Competition for locals for water recreation	1	2	3	4	5
Highway traffic	1	2	3	4	5
Change in local customs	1	2	3	4	5
Community pride	1	2	3	4	5
Noise	t	$\overset{-}{2}$	3	4	5

PART 2. ABOUT YOU

None of this information will be linked to your name. The following information will help us better understand the characteristics of river users. Please respond to the questions only about yourself and remember that all of your answers are strictly confidential.

How many people, incl	luding yourself, are in your household	? People
How many people, incl	luding yourself, go paddling?	People
How many canoes does	s your household own?	
How many kayaks does	s your household own?	
	n outdoor recreation or environmental	group?
_ No _ Yes	How many?	
In what year were you	born?	

To assess the benefits to the Check the appropriate box	users of paddle trails in x below for your currer	n North Carolina nt occupation.	a, we need information about your occupation.
_ Clerk	_ Manager	_ Labore	r
_ Craftsman	_ Professional	_ Homen	naker
_ Driver	_ Retired	_ Student	l .
_ Farmer	_ Sales	_ Unemp	loyed
Annual income is a good household income, includ	indicator of participation intere	on in outdoor re st and investme	creation. What was your approximate 1998 nts? (Please check the appropriate box for you.)
_ less than \$10,000	_ \$60,000 - \$6	59,999	_ \$120,000 - \$129,999
_ \$10,000 - \$19,999	_ \$70,000 - \$7	79,999	_ \$130,000 - \$139,999
_ \$20,000 - \$29,999	_ \$80,000 - \$8	39,999	_ \$140,000 - \$149,999
_ \$30,000 - \$39,999	_ \$90,000 - \$9	99,999	_ \$150,000 - \$159,999
_ \$40,000 - \$49,999	_ \$100,000 - \$	\$109,999	_ \$160,000 - \$169,999
_ \$50,000 - \$59,999	_ \$110,000 - \$	5119,999	_ \$170,000 - over
Which, if any, paddling cl	ubs are you currently a	member of? _	

THANK YOU FOR YOUR TIME AND PARTICIPATION!

Appendix Two: Final Report of the Survey



Fall 2001

North Carolina Coastal Plains Paddle Trails Initiative

The State of North Carolina Coastal Paddling Survey

Jack Thigpen, Ph.D.,

North Carolina Sea Grant

Bill Avant,

Department of Parks, Recreation, and Tourism Management, North Carolina State University

Chris Siderelis, Ph.D.,

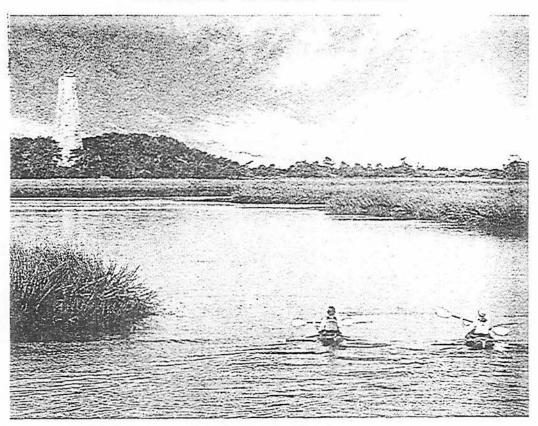
Department of Parks, Recreation, and Tourism Management, North Carolina State University

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Appendix Three: Printed Guide

North Carolina Coastal Plain Paddle Trails Guide



Visit our web-site: http://ils.unc.edu/parkproject/nctrails.html



(1) Mad River Canoe www.madrivercanoe.com



Wildernessystems.com

NC Coastal Paddle Trails

North Carolina Coastal Plain Paddle Trails

This site and the companion "North Carolina Coastal Plain Paddle Trails Guide" map are designed to assist kayak and canoe users in planning trips to explore North Carolina's coastal plain rivers, creeks and estuarine waters. (Click here for "guide" ordering information.)

Begin Viewing Trail Maps

North Carolina's coastal plain, comprised of small creeks and rivers, sheltered estuarine waters and open expanses of large rivers and sounds offers a variety of paddling adventures. These diverse waterways provide opportunities for all levels of paddling skills, from beginners to experts.

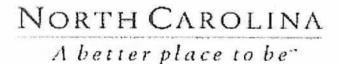
Pristine cypress swamps, slow-moving blackwater streams and extensive salt marsh edged waterways invite paddlers to observe and enjoy their natural beauty. Birding, fishing, exploring historic sites and visiting small communities are just a can enjoy.

Being this close to nature reminds us of the importance of clean water and relationships of waterways safe and enjoyable for everyone and to ensure a safe paddling experience, keep

- Respect private property adjacent to public waterways.
- Dispose of all trash properly.
- Observe safe paddling techniques and carry necessary safety gear for each outing
- Leave a "float" plan with family or friends.
- Be aware of current and future weather and water conditions.
- Know your paddling abilities and plan your outings accordingly.

We hope that you will enjoy your explorations of the coastal plain creeks, rivers and estua

We recommend maximizing your browser window size.



Visitor information can be obtained at www.visitnc.com or by calling 1-800-V

Map List DPR Home



Coastal Region Paddle Trails Map Canoeing Regulations and Safety Tips



The North Carolina Coastal Paddle Trail Initiative (NCCPPTI) has been coor





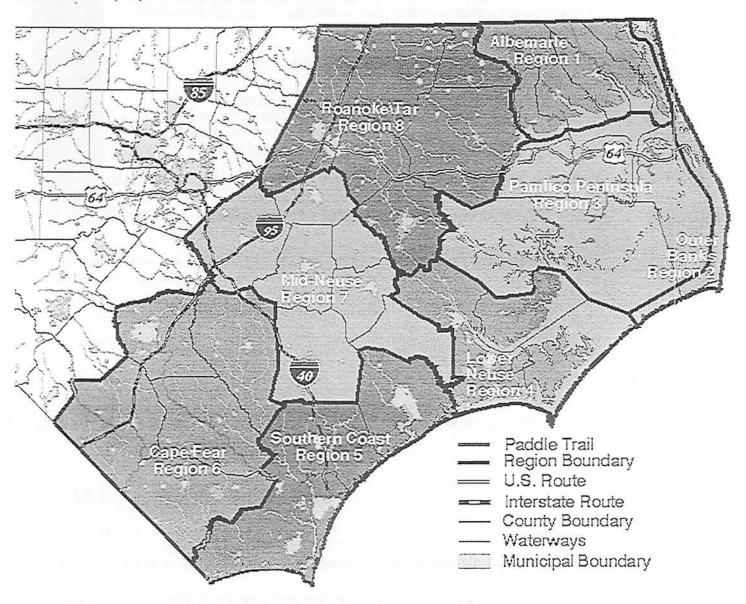


Paddle Trails

Coastal Region Paddle Trails Map

Click on one of the trail regions below to view its mapped trail areas.

Scroll down to select a region by name based on the counties it contains.



Coastal Region Paddle Trails Map with County Names

Albemurle Region 1
Camden, Chowan, Mainland Currituck, Gates, Pasquotank, Perquimans

Outer Banks Region 2
Outer Banks of Currituck, Outer Banks of Dare, Outer Banks of Hyde

<u>Pamlico Peninsula Region 3</u> Beaufort, Mainland Dare, Mainland Hyde, Tyrrell, Washington

> Lower Neuse Region 4 Carteret, Craven, Pamlico

Southern Coast Region 5 Brunswick, New Hanover, Onslow, Pender

<u>Cape Fear Region 6</u> Bladen, Columbus, Cumberland, Robeson, Sampson

Mid-Neuse Region 7
Duplin, Greene, Johnston, Jones, Lenoir, Wayne, Wilson

Roanoke\Tar Region 8

Bertie, Edgecombe, Halifax, Hertford, Martin, Nash, Northampton, Pitt

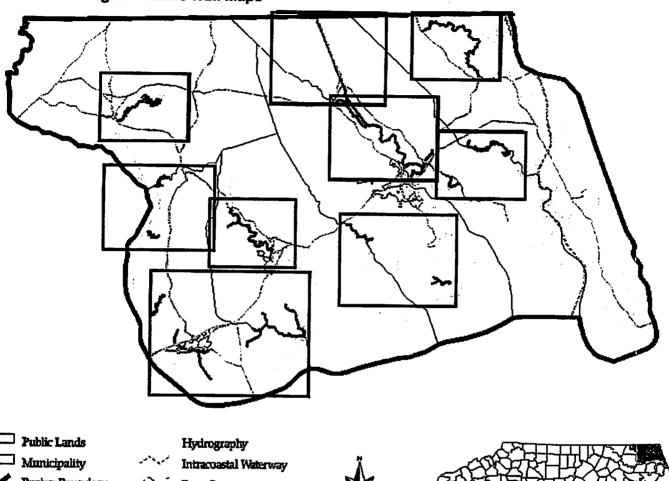
Map List Coastal Region Paddle Trails Map Related Web Links

DPR Home Canoeing Regulations and Safety Tips Viewing and Printing Tips

Paddle Trails

Click on one of the trail map areas below to view the trail map and descriptions.

1 - Albemarle Region Paddle Trail Maps



Region Boundary County Boundary

Highway

Perry Route

Paddling Trail

Individual Mapextent





The Albemarle Region is made up of the following counties: Camden, Chowan, Mainland Currituck, Gates, Pasquotank, Perquimans

Map List **DPR Home**



Coastal Region Paddle Trails Map Canoeing Regulations and Safety Tips



Related Web Links **Viewing and Printing Tips**

Appendix Four: Research Agenda

Coastal Plain Waters 2001

We would like to extend special thanks to the following for their support of Coastal Plain Waters 2001:

Confluence Watersports Company
North Carolina Sea Grant
Partnership for the Sounds
N.C. Division of Parks and Recreation
NCSU Dept. of Parks, Recreation and Tourism
Management
ECU Dept. of Recreation and Leisure Studies
Mid-East Resource Conservation
and Development Council, Inc.
Progress Energy
North Carolina Estuarium

Human Dimensions Of Coastal Recreation Research Conference



March 30, 2001 Civic Center Washington, NC

8 a.m. to 7 p.m.

8:00-8:30	Coffee and Registration		"Paddle Trails and Contingent Fee Data" John Whitehead, East Carolina University
8:30-8:45	Welcome and introductions: Steve Rebach, North Carolina Sea Grant		*The Economic Impact of Partnership for the
8:45-9:45	Keynote Address: "National Survey on Recreation and the Environment 2000: Coastal Recreation"		Sounds Development Projects on the Albemarle/Pamlico Region* Hans Vogelsong, East Carolina University
	Vernon R. Leeworthy, National Ocean Service	2:30-3:45	Paper session 3: Management and Behavior of Ecotourists
9:45-10:00	Break		
10:00-11:00	N.C Coastal Plains Paddling Initiative (NCCPPI): "NCCPPI on the Web" Ken Shafer, Center for Geog. Information Analysis "Profiles of NC Coastal Plain Paddlers"		*A Passive Approach to the Management of Camping Behavior: The Use of Regulatory Signage on the Zeke's Island Component of N.C. Estuarine Research Reserve Program* Jim Herstine, Denis Auger, Jeffery Hill, and Robert Buerger, UNC-Wilmington
	Jack Thigpen, North Carolina Sea Grant Chris Siderlis, North Carolina State University John Whitehead, East Carolina University		*Reducing Visitor Impacts on Canoe Trails: A System for Writing Messages* Rebecca Barry, East Carolina University
11:00-11:45	Paper Session 1: Coastal Ecotourism "Planning for Ecotourism on the Coast of Maine" Natalie Springuel, Maine Sea Grant "New Tours, Old Pastimes" David Griffith, East Carolina University		"Results of a Trail User Survey & Internet Poll" Miles Phillips, South Carolina Sea Grant "The Changing Human Dimension of Recreational Use on Masonboro Island Following a Hurricane Robert Buerger, Jeffery Hill, James Herstine, and
11:45-1:00	Catered Lunch		Denis Auger, UNC-Wilmington
4.00.0.00		3:45-4:00	Break
1:00-2:30	Paper Session 2: Stakeholders and Impacts "Achieving Stakeholder Consensus Through Graphic Value Representation" Harold Stone, East Carolina University	4:00-5:00	Group Planning Session: "Charting Our Course — the Future Direction of Coastal Recreation Research"
	"Economic Impacts of Scuba Diving on New York's Great Lakes" Alan R. Graefe, Penn State University Sharon L. Todd, SUNY Cortland	5:00-7:00	Social; N.C. Estuarium

Appendix Five: Symposium Agenda

Coastal Plain Waters 2001

Paddling Coastal Plain Waters: Symposium



March 31, 2001 Civic Center Washington, NC 8:30 a.m. to 10 p.m.

9:00-10:00	Welcome, Keynote Address Andy Zimmerman, CEO, Confluence Watersports Co.	Auditorium	
10:00-10:15	Break		
10:15-11:15	Concurrent Session I	See Room Map	
<u>Speaker</u>	Topic	Moderator	Room
Ken Shaffer Ctr. for Geo. Inform. Analy. Tom Potter, N.C. Parks & Rec.	"Web-Based Paddling Trails"	T. Potter	*SC 1
John Harris Kitty Hawk Kites	"Outfitters' Liability and Risk Management"	J. Bahen	SC 2
Jeff Horton Roanoke River Partners Tom Stroud Partnership for the Sounds	"Sustainability for Coastal Plains Paddle Trails"	D. Hodges	*CC B
Scott Kucera N.C. Maritime Museum Tim Runyan East Carolina Univ.	"Maritime History Destinations for Paddlers"	S. Lintelman	ccc
Scott Taylor Photographer	"Photography Techniques from a Kayak"	W. Swann	CC Stage
Jessica Kester N.C Coastal Fed. Jay Greenwood Goose Creek State Park Martin Wiggins Office of Env. Education	"Teaching Kids from The Water"	L. Spence	CC Green
11:30-12:15	David Jenkins, Director, American Canoe Assoc. Al Staats, Exec. Director, N. American Water Trails Assoc.	Auditorium	
12:15- 1:30	Catered Bag Lunch		

Registration, Continental Breakfast

Entrance

8:30-9:00

^{*}CC = Civic Center

^{*}SC = Senior Center Building (Restrooms in Senior Center are unavailable.)

1:30-2:30	Concurrent Sessions II	See Room Map	
<u>Speaker</u>	Topic	<u>Moderator</u>	Room
Jack Thigpen N.C. Sea Grant Chris Sideralis NC State	"What Paddlers Want — Survey Results"	J.Thigpen	CC B
Shirley Schoelkopf, Michael O'Neal Ocracoke Adventures Emma Thomas Adventure Tours	"Setting Up Paddling Trips As Business Venture"	J. Bahen	CCC
Pam Malec Kitty Hawk Sports Rodney Johnson Albemarle Resource Cons. & Dev. John Hinners Pamlico Co. Rural Dev.	"Paddle Events — Kayak Rodeo, Sounds Country"	D.Hodges	CC Stage
Barb Blonder N.C. Coastal Res.	"N.C. Estuarine Reserves — Paddling Opportunities"	S. Lintelman	CC Green
Tom Potter N.C. Parks & Rec. James Sessoms Lumber River State Park Jeff Horton Roanoke River Partners Karen Stimpson Maine Island Trail Assoc.	"Management of Paddle Trails"	T. Potter	SC 1
Natalie Springuel Maine Sea Grant Peter Labor N. Amer. Water Trails Carole Mullis S.C. Parks & Rec.	"Water Trail Experiences from Nova Scotia to South Carolina"	L. Spence	SC 2

Break

2:20-2:45

2:45-3:45	Concurrent Sessions III	See Room Map	
<u>Speaker</u>	<u>Topic</u>	Moderator	Room
Jack Thigpen N.C. Sea Grant Chris Sideralis NC State	"What Paddlers Want — Survey Results"	J. Thigpen	ССВ
Ken Shaffer Ctr. For Geog. Infor. Analy. Tom Potter N.C. Parks & Rec.	"Web-Based Paddling Trails"	T. Potter	cc c
David Hodges, Mid-East R, C &D Henry Wicker U.S. Army Corps of Eng. David Moye N.C. Division of Coast. Mang.	"Regulatory Issues With Access & Facility Construction"	D. Hodges	CC Stage
Terry Dash, NC State Pam Malec Kitty Hawk Hawks Sports	"Tips for Safe Trip Planning — Local and Long Distance Trips"	B. Chitwood B. Avant	CC Green
Diane Groff, Krissy Bizaro, East Carolina Jim Brown, Gator Docks Shannon Deaton N.C. Wildlife Res. Comm.	"Construction of Waterway Access Sites"	S. Rebach	SC 1
Andy Wood, Audubon Natalie Springier Maine Sea Grant Joe Jacobs Rock Rest Adventure	"Paddling With Environmental Sensitivity"	S. Lintelman	SC 2
4:00-4:20	"Future of Coastal Plains Tourism"	Auditorium T. Potter	
4:20-5:00	"Organizing N.C. Water Trail Association"	W. Swann T. Potter and K. Simpson	
5:00	Survey Award Drawing	J. Thigpen	
6:00-10:00	Dinner/dance Blackberry Jam Band with Roger Rulifson	Auditorium	

.

Appendix Six: Research Proceedings



Fall 2001

North Carolina Coastal Plains Paddle Trails Initiative

2001 Coastal Plains Paddle Trails Research Conference Proceedings

Steve Rebach, Ph.D., Editor
North Carolina Sea Grant

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12. West Virginia Trail User Survey Results; Spring 1999 Miles D. Phillips, David M. Ostergren and Peggy Pings	80
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Appendix Seven: Media Coverage

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Sound paddling ् tips

Heading to the Pamlico Paddle, or just going out to do some sound paddling on your own? A few tips

For sun protection, wear a widebrimmed hat and sunglasses. A lightweight, synthetic long-sleeve shirt and long pants are advisable for people with fair skin and they also help protect against mosquitoes.

About mosquitoes: Out on the water, they aren't a problem, but they can be at the put-in and on land if you stop along the way to walk around. Bring your defense mecha nism of choice.

Lock your car at the put-in/take-out.

PFDs - personal flotation devices are mandatory for everyone in the boat.

Take an extra

paddle: It's no fun being up a creek without one.

Take water.

Per Coast Guard regulations, take an "audible signaling device." A whistle will do.

Take a compass or Global Positioning System.

Store your gear in a dry bag.

■ Take a cell phone, if you have one (but turn off the ringer).

Don't overload your boat.

By JOE MILLER

'Look to your left and you'll discover something interesting," John Hinners says as we hang a right off of Spring Creek and head east up the narrower Bryan Creek.

Something interesting? As if the tidewaters we had been paddling

for the past half-hour, with their breeze-tussled marsh grass, their jump-

TAKE IT ing mullet and the strainedyet-graceful rise of a great blue OUTSIDE heron into the morning haze weren't interesting enough. Joe Miller For half an hour, I'd paddled slackjawed, and now some-

thing "interesting" awaited. This oughta be .. interesting.

"See those cedars?" asked Hinners, who has only paddled water-logged Pamlico County for seven years or so but probably knows its waters as well as anyone. The retired prep-school teacher from Connecticut, who has taught everything from outdoor skills to meteorology to Renaissance studies, pointed to a clump of inland cedars that seem misplaced amid a stand of pines.

"Cedars generally like to be close to fresh water," he says by way of a clue. "Go ahead and paddle up around.'

Sure enough, I paddle around a bend and there, stretching before me for as far as I can see — a good half-mile or so — is an arrow-straight waterway, its 15-or-so-foot width sheltered by a pine canopy. From a rapidly widening creek that would quickly give way to a wider expanse known as Bonner Bay and shortly thereafter the open waters of the Pamlico Sound, we suddenly found ourselves in the idyllic embrace of a waterway worthy of Shangri-La.

"Interesting" is certainly one way to put it.

Pamlico County is dubbed "The Hidden Coast" by boosters, an appellation that seems ironic at first, considering that this 566-square-mile county is 40 percent water. But then consider its well-known neighbor to the east - the glitzy Outer Banks - and the designation makes sense.

"We're a big secret," says Jennie Hollowell, executive director of the Pamlico County Chamber of Commerce. Other than Oriental, promoted as the sailing capital of the world for its 3,500 resident sail craft (or roughly one boat for every 3.5 county residents), most folks, she says, draw a blank when it comes to tourism options in the

The Pamlico County Rural Development Panel, which Hinners chairs, hopes to change that. Like so many other similar panels established by the state Cooperative Extension Service to help depressed or stagnant rural economies, Pamlico's is focusing on ecotourism. Not a bad move, considering that ecotourism is accounting for more and more of the state's \$11.9 billion tourism industry. Not a bad move, either, once you've poked around the county.

"Paddling is our big push," says Hinners, though the panel is also exploring heritage tourism (from the early Algonquians, who worked the land long before European settlement, to the fishing industry that helped build the county) and farm tours (potatoes and corn are big, and cotton is growing). Not to mention biking.

"We're in the exploratory phase right now," Hinners says. "We're looking at bike lanes and paths, existing roadways, logging trails, abandoned roads - the first thing you have to do with ecotourism is assess

what you have.

What the county has is a commitment from the N.C. Department of Transportation to include more generous shoulders for road cycling when it repaves N.C. 55, which runs the length of the county from Olympia to Oriental. And for off-road enthusiasts, it has some intriguing potential. In addition to miles of logging roads, the panel has its eye on a couple of tracts of virgin pocosin, a kind of upland swamp, that would make for a different kind of pedaling.

While it ponders pedaling, the push right now, as Hinners notes, is on paddling.

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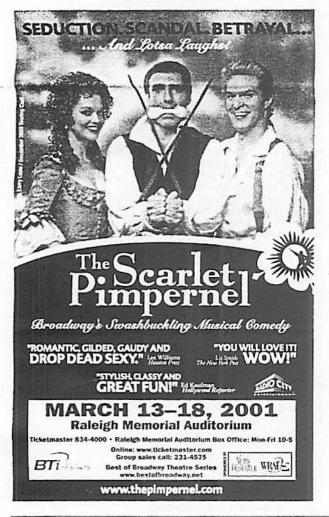
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cover story

Making a splash

Soon, more than 1,200 miles of Eastern North Carolina paddle trails will be mapped out.

(quietl

By JOE MILLER

WILLIAMSTON

For no reason apparent to the outside world, a huge smile spread across my face. A spontaneous smile, the kind that in the '70s would have aroused well-founded suspicions. But there were no con-

trolled substances involved. This time I was, to borrow a phrase from the early anti-drug campaigns, high on life.

Life in a canoe, in a swamp,

Life in a swamp where winter's deep freeze had momentarily broken,

bathing us with sun, a cloudless blue sky and temperatures in take it the low 60s. And quiet. Lots of quiet, interrupted only occa-OUTSIGE | sionally by our guide and the lascivious sound of a canoe paddle gently entering and exiting the still, dark water.

You couldn't help but smile this winter day on Sweetwater Creek, a blackwater tributary that flows, in no particular hurry, some 25 miles before disappearing into the Roanoke River east of Williamston After putting in off U.S. 64 at a former landfill, where the disposed dishwashers and other rusted appliances are on the cusp of turning from junk to artifact, we quickly escaped the sounds of the highway. A testament to a forest so dense that even in win-

ter, stripped of its foliage, it still muted the sounds of civiliza-

For the most part, Sweetwater Creek runs through a cypress and gum swamp (though as guide Joe Jacob tells us, most of the cypress were long since timbered for their valuable wood). The tupelo gum, with its prominent largebuttressed base, leaves little doubt we're in a swamp. A supporting cast of

sycamores, red maples, sweetgums, oaks and fetterbush complete the picture, along with sprinklings of mistletoe and Spanish moss.

We paddle past a beaver dam, past a lone great blue heron, past scratch marks six or seven feet up the base of a sycamore by a bear intent on letting others know that these are his sloshing grounds.

Jacob shares an insight now and then That the tannic water gets its color from decomposing leaves and organic matter. That despite its appearance, the water was considered so clean that early explorers stocked up on it for the voyage back across the pond. That the bleached-looking branches and twigs periodically drifting past are "beaver sticks," so named because they're the work of beavers who strip them clean of their nutritious bark.

My smile gets bigger. In part, because this is one of those rare convergences of weather and location that create a once-in-a-lifetime paddle. In part, too. because out here I've had more than my fair share of it-don't-get-no-betterthan-this paddles.

The Black River, another blackwater swamp considered to have the cleanest water in North Carolina. Pamlico Point, where, if you're lucky, you can hear the cry of a loon. The lower Neuse River, with its towering 150-foot Cliffs of the Neuse overhead. The maze of marshland from Swansboro to Bear

Just a few of the once-in-a-lifetime paddles I've experienced "out here," in one of the country's biggest flat-water paddling secrets: Eastern North Carolina.

It's a secret that may not be for much longer.

For the past two years, the North Carolina Coastal Plains Paddling Initiative



Great blue heron

has been working to identify all the paddle trails of Eastern North Carolina. It's an effort by a hodgepodge of interests, from land conservancies to economic development groups, that's been surprising some surprising folks.

"It surprised me," says Tom Potter, who has been coordinating the effort as part of his job as eastern regional trails specialist for the state Division of Parks and Recreation.

The main cause for his surprise? Already, the initiative has found 1,200 miles of existing paddle trails east of Inter-

state 95. Not simply navigable waterways, but paddle trails that have a designated put-in, take-out and mile markers along the way. And that's just the beginning.

Potter rattles off several other trail networks he's familiar with not included in this, the initiative's first phase. When the inventory is completed, Potter expects the database to list more than 3,000 miles of paddle trails in the

eastern part of the state.
Quite a database. One paddlers would love
to have their hands on. And soon they will.
As part of the initiative, the Division of
Parks and Recreation and several of the initiative's other champions are hosting Coastal
Plain Waters 2001, a symposium in Washington March 30 to April 1. It's a comingout party of sorts for the initiative, an opportunity for anyone with an interest in paddling
— from outfitters to nonprofits to government agencies to academics and enthusiasts
— to gather and discuss paddling in Eastern
North Carolina.

It's also when Potter hopes to have the database available for public consumption, in the form of a free printed 26- by 38-inch guide and a page on the state Parks and Rec Web site. Broken down by eight regions, each paddle trail entry will include a map, difficulty level, general description and location of put-ins and take-outs, among other information. Eventually, all 3,000 miles will be available in print and online.

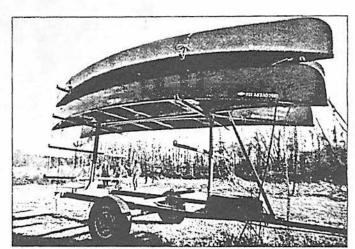
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The printed and online guides will make it infinitely easier for paddlers to explore what guide Jacob, owner of Pittsboro-based Rock Rest Adventures, calls a remarkably diverse region, from its swamps to its blackwater streams to its marshes and sounds.

"Eastern North Carolina is what keeps me from moving to Alaska," says Jacob, who guides nine months of the year along the Southeast coast but spends his summers in the land of the midnight sun.

It could also add an economic boost to a part of the state that needs it.

Already, paddling's financial impact is being felt in the northeastern part of the state, where a trail guide Potter helped the Albemarle Resource Conservation and Development Council produce has been out



Canoes are ready for the next adventure.



Jennifer Gale, left, and Kristen Trubey explore Sweetwater Creek.

CONTINUED ON NEXT PAGE

300 years later ...

Ever get a hankerin' to be an explorer? This weekend is your chance.

On Sunday, The Trading Path Preservation Association and the Eno River Association will recognize the tricentennial of John Lawson's ground-breaking exploration of the Carolinas with a 3- to 5- mile

check |

Lawson, if your history is foggy, was

the first European to explore and write about the interior of the Carolinas. His trip began in December 1700, ended the following spring and resulted in "A New Yoyage to Carolina," a best seller in its time.

Sunday's event will begin at 1 p m. with an hourlong presentation on what Lawson, with the aid of guide Enoe Will, saw, followed by the hike. Meet at the Eno River State Park headquarters at the end of Cole Mill Road in Durham (from Interstate 85, go north at the Cole Mill exit for 5 7 miles).

Sturdier souls can experience a bigger chunk of the John Lawson experience with a 14-mile re-enactment hike Saturday. That hike will leave from the Orange County Courthouse in downtown Hillsborough at 8 a.m.

Both events are free. Call the TPPA at 732-6957 or visit www.trudingpath.org/.

Tips? Comments? An adventure you'd like to share? Drop us a line at Take It Outside, Features Dept, The News & Observer, P.O. Box 191, Raleigh, N.C. 27602, give us a call at 601-6526, fax us at 829-4647 or e-mail us at imiller@newsobserver.com For more information on outdoor recreation, check out previous columns at www.newsobservercom/tio You can find previous columns about hiking and backpacking in the "Take It Outside" guidebook (\$10, plus \$3 50 shipping and handling, by calling 836-2829).

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for several years.

"I don't have any hard numbers," says Rodney Johnson, executive director of the council, "but I can tell you we see a lot more cars around with canoes and kayaks on top." Other evidence: Johnson says his office has gone through the first batch of its free 20,000 trail guides and is printing up more, and Potter says four or five new canoe and kayak stores have opened.

Just how much of an economic impact the paddle trail initiative's broadened exposure will have is hard to tell. Preliminary results of a survey done in conjunction with the initiative show the typical paddler has a household income of \$75,000, and when he or she takes trips, likes to eat in local cafes (69.3 percent), stay at local campgrounds (53.6 percent) and buy local arts and crafts (39.6 percent).

While he admits the number is a ballpark, Jacob says his typical two-day trip of eight paying clients pumps roughly \$1,000 into the local economy, from food and lodging to gas and entertainment.

"There's not a single factor

that can sustain the economy of Eastern North Carolina," says Potter, "but I think this can be part of the puzzle."

A part that's likely to put smiles on a lot of faces.

Staff writer Joe Miller can be reached at 601-6526 or jmiller@newsobserver.com



Guide Joe Jacob prepares lunch for canoe trip participants. STAFF PHOTOS BY MEL NATHANSON

For more information on the Coastal Plain Waters 2001 symposium, visit www.coastolwoters2001. ecu.edu/ or call Tom Potter at (919) 778-9488.

Resources

Though the initial guide containing information on 1,200 miles of paddle trails in Eastern North Carolina won't be available for a few months, several smaller trail guides exist for portions of the area. Among the areas covered the Albernarle region (10 counties in the northeast corner of the state), Brunswick County south of Wilmington, Pamlico County, Cape Fear River and Brices Creek in Craven County. To obtain one of these free maps, call Potter.

To contact outfitter Joe Jacob, whose Rock Rest Adventures leads about 100 paddle trips annually in Eastern North Carolina, call 542-5502

For more information on paddling in Eastern North Carolina:

■ "A Paddler's Guide to Eastern North Carolina" by Bob Benner and Tom McCloud (Menasha Rugy. Press, \$12.95). Put-ins, take-outs, difficulty ratings, distances, maps and other information.

■ Scheduled for publication this spring is "Guide to Sea Kayaking North Carolina," by Pam Malec (The Globe Pequot Press). Thirty-five trips, from Knotts Island to Cape Fear, will be highlighted, and everything from where to put in and take out to where to grab a bite and stay the night is covered.

A sampling of paddle trails

Can't wait for the North Carolina Coastal Plains Paddling Initiative's first paddle trail guide? Here are some choice trails to tide you over:

1. Alligator River, Tyrrell and Hyde counties. Most folks think of the Alligator as that massive waterway they pass over on U.S. 64 on the way to the Outer Banks. But that waterway comes from humble beginnings that wind through brackish marshes and, says guide Joe Jacob, one of your best opportunities for spotting wildlife. Length: 21 miles. Access: N.C. 94, S.R. 1322, U.S. 64. Map: The free Albemarle Region Canoe and Small Boat Trails System.

2. Lower Scuppernong River, Tyrrell County. Tom Potter, eastern regional trails guide specialist for the state Division of Parks and Recreation, rounded a bend about two miles south of Columbia when he noticed something swimming ahead. Too big to be a beaver, too big to be an otter — but not too big to be a black bear. Wildlife and feeder creeks that let you explore hardwood swamp. Length: 10 miles. Access: Waterfront Park in Columbia, three bridges along S.R. 1105 Map: Albemarle Region Canoe and Small Boat Trails System.

3. Black River, Sampson County. If you're looking for quiet and solitude, this is a good bet. The Black, considered to have the cleanest water in the state, meanders through a hardwood swamp; if the water's up, you'll be amazed at how far off the river you'll be able to explore Length: 8 miles. Access: put in at Black River on N.C. 411, take out midway between N.C. 41 and Wildcat Road (road access is off Firetower Road).

4. Bear Island, Onslow County, Most people who paddle through the Bogue Sound marshes to Bear Island depart from Hammocks Beach State Park, Understand-



Jacob, in the front canoe, leads a paddle trip along Sweetwater Creek. Following are Jim and Claudia Svara.

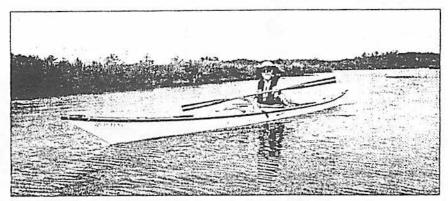
able, considering there's a wellmarked canoe trail and it can be paddled in an hour. For a twist, try leaving from Swansboro. It may take twice as long, but it will expose you to some different scenery, most notably Huggins Island, a new part of the state park system. Length: about a two-hour paddle, depending on the tide. Access: Behind Barrier Island Kayaks on N C 24 just north of the Swansboro bridge

Sweetwater Creek, Martin County. Up for a spur-of-themoment swamp trip? Try this one. It's easy to get to — less than two hours from most of the Triangle and the access is just off U.S. 64 — and because it's a slow-moving creek, you can put in and take out at the same spot, no messy shuttles to deal with. Length: 4 to 5 miles (you'll want to turn around downstream where the creek constricts and starts to pick up steam). Access: First bridge east of Williamston on U.S. 64 (southwest side). ■

- Joe Miller

RECREATION/COVER STORY

The sheltered coastal waters of Pamlico County are rich in wildlife and the sounds of silence.



John Hinners is mapping 300 miles of paddle trail in Pamlico County.

To that end, the panel is creating five paddle trail maps that will cover roughly 300 miles of designated trails in the county, complete with access points. To date, three maps covering about 175 miles have been completed.

The panel also sponsors the annual Pamlico Paddle, a guided tour that this year will explore Oyster Creek near Lowland. The 4-year-old event, which will be May 13, suggests the panel's inclination is correct: In its first year, registration had to be capped at 75 boats because the staff couldn't accommodate more. Even last year's paddle, in the aftermath of a nor'easter, managed to attract 40 boats.

Take a leisurely morning paddle with Hinners and you'll understand why.

For one, there's the wildlife. The county, along the Atlantic Flyway, is home to any number of herons, ducks, geese, terns, gulls, pelicans and Hinner's favorite — the occasional loon.

After emerging from the Shangri-La-like water passage — a mosquito ditch, actually, part of a 430-mile network dug by the health department in the early 1960s to control the mosquito population (it didn't work) — into Long Creek, Hinners spots a loon about 75 feet ahead.

He tries to strike up a conversation, emitting his own version of the bird's somewhat maniacal ha-oo-oo laugh. The bird, apparently annoyed by our presence, takes a dive and pops up another 50 feet upstream.

Hinners has seen river ofter, scared up a six-point buck on shore, spotted bobcat tracks and scat and once was escorted for a ways up Oyster Creek by a curious dolphin. Bear are common, and once, while driving to Bayboro, he spooked a mountain lion at the side of the road near the town of Merritt.

Such visual wonders are only part of what lures Hinners out into Pamlico County's waters at least three times a week.

"I was with a group talking about how we live in a society that's grown uncomfortable with silence," he says during a lunch break on a sand bar. "That's one reason we like to paddle — the sounds. The water lapping at our boat, the birds, the wind, the dead calm. Or the very distant cry of a bird: It can be dead still and you'll hear the cry of a loon in the distance.

"That," he says, "is the ultimate."

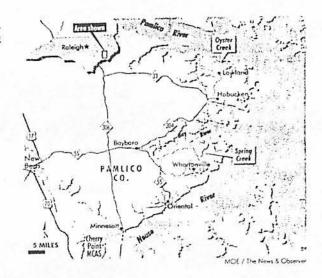
Paddling the Paddle?

What: Fourth Annual Pamlico Paddle, including a morning canoe and kayak tour of Oyster Creek and afternoon canoe and kayak races.
Where: Lowland, in northern Pamlico County.
From the Triangle, take Interstate 40 to U.S. 70 and go east. In New Bern, go east on N.C. 55 to Bayboro, then pick up N.C. 304 East. Shortly after N.C. 304 and N.C. 33 merge, go left on Lowland Road. After 4.2 miles, go right on Horne Road for 0 8 miles, then right again on Oyster Creek Road. The put in is less than a mile. About a 3 1/2-hour drive from the eastern edge of the Triangle.

When: May 13, 9 a m.

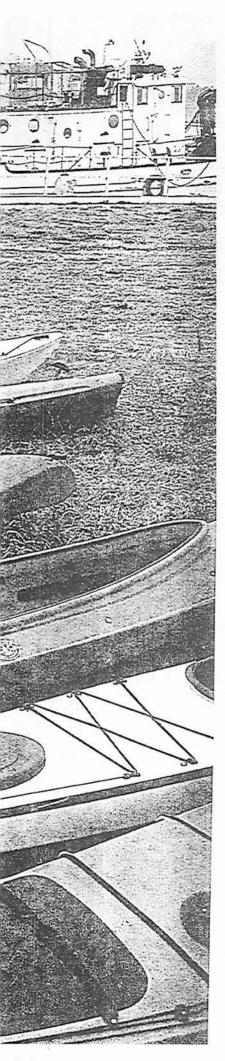
Cost: \$10 registration, \$6 for lunch served by Goose Creek Island Community Club. Lodging: There are four motels/bed-and-breakfasts in Oriental and one each in Hobucken and Bayboro. Call the Pamlico County Chamber of Commerce at (252) 745-3008.

Boats: Rentals are available in Oriental (Inland Waterway Outfitters, 252-249-1707), Emerald Isle (Island Rigs, 252-247-7787) and in Swansboro (Barrier Island Kayaks, 252-393-6457). Information, registration: (252) 249-1857, www.pamlico-nc.com/paddle.



Staff writer Joe Miller can be reached at 601-6526 or jmiller@nando.com





Paddling Into Nature:

Water Trails Abound in Eastern North Carolina

Ann Green · Photographs by Scott D.

t is a quiet, cloudy day on the Pamlico River in downtown Washington. There are no sounds except for the lapping of paddles through the mossy green water.

More than a dozen paddlers create a spectrum of color as they stroke slowly in red. green and yellow kayaks and canoes toward an old railroad bridge.

"The bridge is still in use," says North Carolina Estuarium administrator Blount Rumley, who is following the paddlers in a pontoon boat. "The railroad uses the tracks a couple times a day."

After passing the bridge, the paddlers follow one another along the south shoreline where the Tar and Pamlico rivers meet. The area is uninhabited and covered with cypress trees, cattails and marsh. The only sign of wildlife is the whistling of red-winged blackbirds.

"When the sun is out, this area comes alive," says Rumley. "You can follow the shoreline and see snakes, turtles and other wildlife."

Geese fly overhead as paddlers continue down the shoreline until they reach Castle Island bordered by old dock pilings, During the Civil War, oyster shells were processed into lime at Castle Island for agricultural use. says Rumley. "One of the buildings was a kiln for baking shells," he adds. "The island was a safe location because of the fire hazards."

The wide, calm waters of the Pamlico River provide a picturesque and easy water trail for inexperienced paddlers. "This is the first time I have ever kayaked," says Robert Maxwell. "I didn't realize how stable kayaks are. It is so much fun to be with my granddaughter. The river is so calm."

The smooth, easy trail also provides a pleasant journey for experienced paddlers like Carl Rabe. Dressed in a sleek, black wetsuit,

Rabe is loaded with paddling safety equipment, including a strobe light, whistle, cell phone, reflector and tow rope.

"The Washington area is a good place to paddle because it provides access points for paddlers," says Rabe. "Sometimes it is not easy to find a place to put in and also have parking. A lot of marinas just cater to big boats."

Both Maxwell and Rabe are participants in Coastal Plain Waters 2001 - a three-day event promoting coastal paddling trails and a new trails map available in print or online.

The color map, which divides the coast into eight regions, includes more than 1,200 miles of navigable water trails east of I-95, including the brackish marshes on the Alligator River and Lake Phelps with its towering bald cypress trees. Each paddle trail entry includes a map, difficulty levels and designated points where paddlers can put in and take out as well as mile markers.

"North Carolina offers once-in-a lifetime opportunities for paddlers," says Lundie Spence, North Carolina Sea Grant marine education specialist. "Paddlers can enjoy a variety of activities - from birding and fishing to exploring historic sites and diverse plants and wildlife. The map and the companion Web site are designed to assist kayak and canoe users in planning adventures on North Carolina's coastal plain rivers, creeks and estuarine waters."

The map also can be used as a marketing tool for local communities.

"To have a guidebook or map available gives people an instant vacation," says Karen Stimpson, executive director of the Maine Island Trail Association and a participant in the North Carolina paddling event. "People will go where it is easier for them to get to."

Continued



Kayakers get ready for the Coastal Plain Waters 2001 field day. Many styles of kayaks are light enough to carry to launch sites



A group of experienced kayakers navigate the scenic water trails along Chocowinity Bay near Washington in Beaufort County

Sea Grant Survey

In eastern North Carolina, ecotourism which includes paddling and other outdoor activities — has boosted local economies.

Each year, paddlers contribute more than \$148 million to North Carolina's coastal economy, according to a survey conducted by North Carolina Sea Grant extension director Jack Thigpen. Nearly a third of these paddlers have an annual household income of more than \$90,000, and more than two-thirds are professionals or managers, the survey reports.

"Coastal kayak and canoe paddlers can have a positive impact on our rural waterfront communities," says Thigpen. "The survey helps us understand what these paddlers want so that local businesses can meet their needs. We also are working to ensure that any conflicts arising from the increased use of our waters are minimized."

At Kitty Hawk Sports, paddling sports have boomed, says Pam Malec, water division manager. "It is a safe sport." she adds. "We take more than 6.000 people a year on trips."

North Carolina isn't the only state where paddlers are hitting sounds, creeks and rivers.

"Recreational kayaking, which includes touring in flat water, has grown 17 to 28 percent a year," says American Canoe Association (ACA) Conservation Director David Jenkins. "This is based on figures from small paddling shops."

Trail association directors and others attribute the increased interest in paddling to a number of reasons, including affordability.

"If you look at boats for kayaking, there is a whole line of recreational boats — from high-tech composites and roto-molded to less sophisticated and inexpensive," says AI Staats, executive director of North American Water Trails Inc. "Anybody can throw a boat on a car and use it."

For families, kayaking and canoeing have become popular outings.

"It is one of the fastest-growing family sports," says Andy Zimmerman, founder and board member of Confluence Watersports Co. near High Point. "You can experience the magic of paddling together and have an everyday experience. An afternoon of paddling will soothe your soul."

In addition, water trails are wonderful outdoor classrooms, says Matt Angotti, environmental educator with the North Carolina Coastal Federation.

"It is empowering for kids to spend a day on the water and learn how to canoe," says Angotti, who works with 5th to 12th graders from across the state and from diverse backgrounds. "One group from Fayetteville got to see dolphins for the first time on a canoe trip to Hammocks Beach State Park."

Another group from Apex got to see wetlands as they paddled through Hoop Pole Creek in Atlantic Beach. "They learned about the values and functions of wetlands as they canced in some of the cleanest water in Bogue Sound," he says.

"Through these experiences, we are trying to inspire teachers and students to become motivated, active stewards of North Carolina's coastal estuaries and rivers."

As paddlers become more aware of the environment, some voice concerns about water quality. The 50,000-member ACA argues for clean water enforcement across the country.

In 1998, the ACA sued Murphy Family

Farms, which has since been bought by Smithfield Foods, for the illegal discharge of hog waste into a tributary of the Black River and the failure to obtain a National Pollution Discharge Elimination Permit for the facility.

The court ordered the farm to get a permit. "This is a landmark case establishing that hog farms have to get a Clean Water Act discharge permit," says David Bookbinder, ACA general counsel. "This decision will help control hog waste from thousands of giant hog farms in North Carolina and other states as permits are issued. The less hog waste in the water, the happier canoers are."

Smithfield Foods officials declined to comment on the lawsuit.

Paddling Ancient Sport

Water trails have been around North Carolina for thousands of years. During the early years. Native Americans and explorers used the state's streams, lakes and coastal waters for transportation. In 1985, park officials at Pettigrew State Park found dugout canoes in Lake Phelps and estimated Native Americans used the canoes more than 4,000 years ago.

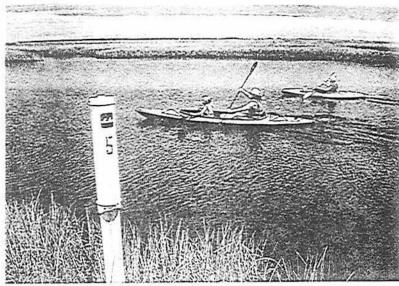
Author Nathaniel Bishop's yearlong canoe trip in the late 1800s along the eastern seaboard and the Outer Banks has become legendary.

In Voyage of the Paper Canoe, which was recently reprinted by Coastal Carolina Press, Bishop details his 2.500-mile journey in his custom-built, 58-pound canoe. He also gives a glimpse into 19th century coastal life while chronicling his stay at the Bodie Lighthouse on Oregon Inlet.

"Having secreted my canoe in the coarse



Kayakers enjoy picturesque scenery, including towering cypress trees, along paddle trails in coastal waters.



Many of North Carolina's navigable water trails are marked with signs that help paddlers find their way

grass of the lowland, I trudged, with my letter in hand, over the sands to the house of the light-keeper, Captain Hatzel, who received me cordially; and after recording in his log-book the circumstances and date of my arrival, conducted me into a comfortable room, which was warmed by a cheerful fire, and lighted up by the smiles of his most orderly wife," he wrote in the book.

"Everything showed discipline and neatness, both in the house and the light-tower. The whitest of cloths was spread upon the table, and covered with a well-cooked meal; then the father, mother, and two sons, with the stranger within their gates, thanked the Giver of good gifts for his mercies."

Bishop's voyage was unusual for that era. Until the middle of the 20th century, few people paddled the coastal water trails solely for recreation.

"My dad was an original old-time canoeist," says Rumley. "In 1932, he and a friend paddled from Washington to Kitty Hawk and then down to Ocracoke. That area was very primitive then. They slept under the canoe and ate cans of beans."

In the later half of the 20th century, people turned to the water again for recreation. However, by then thousands of miles of river, creek and estuarine shoreline were privately owned and closed to the public.

"When I started paddling in the 1950s and 1960s, I took a boat and launched it anywhere," says Staats. "I did not have any support. It would get dark, and I would realize that I did not have a place to beach or put up a tent."

As the country's population began to increase and access to waterways became more difficult, more people began to value the vast

water heritage and its potential for recreation.

In 1966, Maine established the 92-mile Allagash Wilderness Waterway. Two decades later, the state of Maine and a nonprofit group teamed up to establish the Maine Island Trail along some 325 miles of coastline and using more than 30 state-owned wild islands as overnight stopovers.

Later, other states also developed extensive waterway trails, including Washington's Cascadia Marine Trail and New York's Hudson River.

North Carolina Efforts

During the past several years, the N.C. Division of Parks and Recreation has been assisting groups and organizations in developing paddling trails.

By early 1999, more than 12 groups had developed 141 individual trails that stretch more than 1,200 miles in 23 eastern North Carolina counties. That same year, several groups joined together to expand the coastal paddling trails system through the North Carolina Coastal Paddling Initiative

The initiative was a cooperative effort between Confluence Watersports Co., North Carolina Sea Grant, Partnership for the Sounds, Division of Parks and Recreation. North Carolina State University Department of Parks, Recreation and Tourism Management, Mid-East Resource Conservation and Development Council Inc., Progress Energy and the North Carolina Estuarium.

Tom Potter, who helped develop the trails system, says this is just the beginning of marked water trails in the Division of Parks and Recreation.

"There are probably 800 to 1,000 miles

of trails under development," says Potter, former regional trails specialist and now manager of the Conservation Reserve Enhancement Program at the N.C. Division of Soil and Water Conservation.

For example, the Crystal Coastal Canoe and Kayak Club is developing more than 50 miles of paddling trails in western Carteret County on the White Oak River, including Bear Island and Swansboro. The trails will be part of the N.C. Coastal Plain Paddle Trails Guide on the Web. A separate map will be available at tourist locations and kayak suppliers in Carteret County, according to John Davis, former club president.

"The White Oak River is such a prize," says Davis. "It has five distinct ecotypes.

There are sections with hardwoods, cypress, red cedar and a marsh. For part of the way, the trees tower over the stream. There are even some rapids. This is unbelievable for a river on the coastal plain."

With the large number of water trails in eastern North Carolina, the state has a lot of potential, says Zimmerman. "We hope paddling trails become as common in this state as hiking or bike trails."

To view or order the coastal plain paddling trails map, visit the Web, www, nesu edu/paddletrails. Paddling enthusiasts also can join a new organization. The North Carolina Paddle Trails. Association, which is assisting local paddling clubs in establishing and maintaining paddling trails. For more information, contact Ward Swann, 6233. Sentry Oaks Dr., Wilmington, NC 28409 or e-mail. ward_swann@yahoo.com.

BACK PORCH

North Carolina Outdoor Calendar of Events

n several occasions, events in this calendar have been changed without notice. Readers should check with the contact listed before traveling to an event. Items for listing should be conservation oriented and should be sent at least four months in advance.

March 30-April 1

In North Carolina you can navigate more than 1,200 miles of coastal plain paddling trails. Celebrate these waterways and learn more about the potential of the state's coastal ecotourism at Coastal Plain Waters 2001. The 3-day event will feature a coastal paddling symposium

and field trips. For more information and registration, check the Web site www.coast alwaters2001. ecu.edu/. Please mail form with appropriate fees to Lundie Spence, N.C. Sea Grant, Box 8605, N.C. State University, Raleigh, N.C. 27695.

March 16-18

The Catawba Valley Gem & Mineral Club Inc. will present the Unifour Parade of Gems 31st annual gem and mineral show at the Hickory Metro Convention Center in

Hickory. The hours will be 9 a.m. to 7 p.m. Friday, 10 a.m. to 6 p.m. Saturday and 12:30 to 5 p.m. Sunday.

March 17

The Fifth Annual Wildlife Action Wildgame Cook-off will be held at the Boys and Girls Home Exhibition Center at Lake Waccamaw. Plaques and cash prizes will be awarded to the winning cook in the categories of fur, fin and fowl. There is a \$25 cook entry fee, and all meals must be prepared on site to be judged.

In addition, there will also be fun activities for the kids, live entertainment and much more. Revenues from the cook-off will be used by Wildlife Action chapters to fund programs such as Take-a-Kid-Fishing days and hunter safety courses. For more information, call Allison Greene

at (910) 646-6458.

Rodney Foushee Named Editor of Wildlife in North Carolina

Wildlife Resources Commission employee Rodney Foushee has been chosen to head the Publications Section within the Division of Conservation Education. Included in his new responsibilities will be serving as editor of Wildlife in North Carolina magazine.

An award-winning journalist and outdoor columnist, Foushee worked as a newspaper reporter for the Waynesville Mountaineer and then the Wilmington Morning Star before joining the magazine staff in 1996 as an assistant editor. Since joining the magazine, Foushee had been promoted to associate editor and then managing editor and was responsible for gathering and editing articles and photographs for each magazine issue as well as writing feature stories and the monthly "Wildlife Through the Year" column. He holds a bachelor's



MELISSA M.GA

Rodney Foushee was recently named editor of Wildlife in North Carolina magazine.

degree in journalism from the University of South Carolina.

"It is a great honor to be chosen to serve as only the fifth editor of Wildlife in North Carolina in the past 50 years," Foushee said. "I am excited about working with our excellent staff of writers, designers and photographers to continue producing one of the best state wildlife magazines in the country."

He replaces Lawrence Earley, who retired in December after serving as editor since 1997 and associate editor since 1980.

As editor, Earley coordinated the monthly production of the magazine and special publications for the Conservation Education Division. He was also instrumental in developing the magazine's unprecedented 128-page Rivers of North Carolina special issue, which ran in November 1999. For producing the special issue, the magazine's staff was recognized by the N.C. Wildlife Federation, receiving the Governor's Conservation Communicator of the Year Award for 1999.

But Earley's monthly col-

umn "Nature's Ways" was likely his most familiar work to magazine readers. More than 200 of these natural history articles, spanning nearly 20 years, were republished by the Wildlife Commission in a six-volume set.

Earley said he plans to spend most of his time completing a book on the history of longleaf pines as well as writing feature articles.

"Although technically I'm taking an early retirement, I am really stepping down to finish a book I started some years ago and to pursue other writing projects," Earley said. "I will miss working with our fine staff, and I'll miss the collaborative nature of putting out a monthly magazine. But I hope to continue writing articles for Wildlife in North Carolina."

—Chris Powell

Appendix Eight: Goose Creek Participants

Goose Creek State Park Attendees:

Jim Bahen NC Sea Grant Wilmington, NC 28409

Crystal Baity
Martin County Travel and Tourism
Williamston, NC 27892

Georgiana Bircher New Bern, NC 28563

Margie Brooks
Tourism Committee
Greater Hyde County Chamber of
Commerce
Swan Quarter, NC 27885

Wade Buntons Williamston, NC 27892

Brewster W. Brown Mid-East RC&D Winton, NC 27986

Angie Brady-Daniels, Vice President Outer Banks Chamber of Commerce Kill Devil Hills, NC 27948

Paul and Bonnie Charest Elizabeth City, NC 27909

Bryan Chitwood Confluence Archdale, NC 27263

Ginny Culpepper, Heritage Tourism Development Office Division of Tourism Edenton, NC 27932

Richard H. Clark Heritage Tourism Manager NC Division of Tourism, Film and Sports Development Raleigh, NC 27699-4324 Ann Coughlin NC Parks and Recreation Raleigh, NC 27614

Janie Curry
Special Events Coordinator, REI
Cary, NC 27511

Shannon Deaton Raleigh, North Carolina 27607

Lisa Everett Pettigrew State Park Creswell, NC 27928

Burk Felton Heritage Foundation Winnabow, NC 28479

Joan Giordano, APNEP Washington, NC 27889

Tim Glover Great Outdoor Provision Co Wilmington, NC 28403

Henry C. Hammond Raleigh, NC 27607

Mavis Hill and Kodon Leary Columbia, NC 27925

John R. Hinners Merritt, NC 28556

Joe Jacob and Steve Knight Rock Rest Adventures Pittsboro, NC 27312

Mark Johnston Park Ranger II Creswell, NC 27928 Tideland Electric Attn: Lenwood E. Jones Greensboro, NC 28529

Penny Lear -Smith
Dismal Swamp Canal Welcome Center
South Mills, NC 27976

Sue Lintelman Partnership for the Sounds Windsor, NC 27983

Carol Lohr and Janis William Carteret County Tourism Bureau Morehead City, NC 28557

Debbie Luke
Dare County Parks and Recreation
Kill Devil Hills, NC 27948

Pam Malec Kitty Hawk Sports Nags Head, NC 27959

Fred May
Cooperative Extension Service
Pamlico Count

Catherine Merz International Paper Bolivia, NC 28422

George P. Midyette II Merritt, NC 28556

Barb Bondi North Carolina Estuarine Research Reserves Beaufort, NC 28516

Cliff Ogburn Edenton, NC 279323 Tom Potter North Carolina Department of Parks and Recreation Seven Springs, NC 28578

Steve Reed Program Manager, NC Rivers Assessmen Raleigh, 27699-1611

Carolyn Smith River Park Nort Greenville, NC 27835-7207

Andrew Scott Coastal Carolina Press Chapel Hill, NC 27514

Ken Shaffer CGIA Raleigh, NC 27601-2825

Daniel J. Scheill Law Enforcement Officer Mattamuskeet NWR Swanquarter, NC 27885

Chris Siderelis NCSU Raleigh, NC 27608

Bill Smithwick Riverside Campground Belhaven, NC 27810

Michael W. Stokes Wrightsville Beach, NC 28480

Debbie Vargas
Director, Convention and Visitors
Bureau
President, NC Coast Hos
Greenville, North Carolina

Hans Vogelsong
East Carolina University
Department of Recreation and Leisure
Studies
Greenville, NC 27858-4353

Teresa Watts
Director of Community Developmen
NC Division of Tourism, Fil m and
Sports Development
Department of Commerce
Raleigh, NC 27601-2825

Danyelle O'Hara and Cris Fiori The Conservation Fund Chapel Hill, NC 27514

Liz Westin
Cape Lookout National Seashore

Glenn Baile Department of Recreation Parks and Tourism NCSU

Steve Garre NCSU

Jack Thigpen NC Sea Grant Manteo, NC 27954

Ann Pierce NC Sea Grant Manteo, NC 27954

Ann Green NC Sea Grant Raleigh, NC 27695

Appendix Nine: Announcement Brochure

General Information

Celebrate paddling on North Carolina's coastal waterways and learn more about the potential of the state's ecotourism at Coastal Plain Waters 2001. Hosted by the North Carolina Coastal Plains Paddling Initiative, the three-day event will feature special sessions that showcase a new Web-based trails map and a coastal paddlers' survey.

Join paddlers, outfitters, planners, scientists, educators and recreation leaders as they explore the present and future of paddling the blueways — water trails of North Carolina's coastal plain rivers, creeks and estuaries. This is the first major coastal plain paddling symposium and conference in North Carolina.

Location

Founded in 1776, Washington is in northeastern North Carolina at the junction of the Pamlico and Tar Rivers. It is also the gateway to the second largest estuary on the East Coast — the Pamlico-Albemarle sounds.

The Washington Civic Center is on U.S. 17 in the renovated Atlantic Coast Line railroad depot. The civic center is a short walk to the North Carolina Estuarium.

For more information about Washington, visit the Web: www.ci.washington.nc.us/

Accommodations

Resort, 252/792-3939.

Motels: Comfort Inn, 252/946-4444, Holiday Inn Express, 252/946-5500; Days Inn, 252/ 946-6141.

Bed and Breakfasts: Acadian House, 252/ 975-3967; Carolina House, 252/975-1382; Pamlico House, 252/946-7184. Campgrounds: Twin Lakes Camping Resort, 252/946-5700; Green Acres Family Camping

For more information, contact the Washington Chamber of Commerce, 252/946-9168.

Registration

Forms are available on the Web:
www.coastalwaters2001.ecu.edu/ or use the
enclosed form. Mail payment by Feb. 16.
Friday's fee includes breaks and social.
Saturday's includes social, continental
breakfast, lunch and dinner/dance. Mark
preferred trip.

For more information, contact: Lundie Spence, NC Sea Grant, NCSU, Box 8605, Raleigh, NC 27695-8605; 919/515-3012; lundie_spence@ncsu.edu.

Sponsors
Confluence Watersports Co.
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Mid-East Resource Conservation and
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Coastal Plain Waters 2001

Human Dimensions of Coastal Recreation: Research Conference

Paddling Coastal Plain Waters: Symposium and Field Trips



March 30-April 1, 2001 Washington, NC

www.coastalwaters2001.ecu.edu/

Printed on recycled paper.

Human Dimensions of Coastal Recreation: Research Conference

Friday, March 30 Washington Civic Center

Researchers will present findings on recreation issues, including economic, social and community and environmental impacts.

Audience: Scientists, planners, policy-makers, state and federal agency representatives, student, community development specialists and natural resource managers are invited to attend.

Registration & Sessions: 8:30-5 p.m.

Keynote: Bob Leeworthy, NOAA, "Human Dimensions of Coastal Recreation"

Sessions: Five themes — coastal recreation and tourism trends; economic benefits and impacts of coastal recreation; coastal tourism as community development; and visitors' impact on coastal ecology.

Social: 5:30-7 p.m., North Carolina Estuarium (All event registrants invited.)

Conference Paper Submissions: Submit abstracts not exceeding two single-spaced pages with one-inch margins by Feb. 16, 2001. Notification will be by March 1, 2001. Final manuscripts needed by March 30, 2001. Send abstracts to: Chris Siderlis, NCSU, Box 8004, Raleigh, NC 27695-8004; 919/513-1700; chris_siderelis@ncsu.edu.

Coastal Paddling Symposium

Saturday, March 31 Washington Civic Center

Learn about new ideas, aWeb-based trail map and economic ventures in paddling North Carolina's coastal waters at an exciting twoday event.

Audience: Anyone who is interested in paddling as an ecotourism venture and all recreational paddlers.

Registration & Sessions: 8:30 a.m.-5 p.m.

Keynote: Andy Zimmerman, CEO, Confluence Watersports Company

Sessions: Equipment, paddle trail development, regulatory issues, environmental impacts, economic development, paddlers' travel logs, and acquisition/management of trails and access sites.

Dinner and Dance with Elderherry Jam Band: 6-9 p.m., Washington Civic Center

Find Us on the Web

For the most up-to-date information about the conference, symposium and fields trips and demonstrations, visit the Web: www.coastalwaters2001.ecu.edu/

Field Trips and Demonstrations

Sunday, April 1 North Carolina Estuarium

Continuous demonstrations and paddling tips: 9 a.m.-3 p.m.

Field trips: 9 a.m. and 1 p.m.

Meet at Estuarium. Preregistration required.

Indicate field trip on registration form. \$15 fee covers one or two-half day trips or one full-day trip. Safety boats and guides provided.

Half-day trips for beginners to experts — all equipment provided.
Full-day trips for intermediate and experienced paddlers — bring boat and lunch.

FT#1 9:30 a.m.-noon, Chocowinity Bay (30 people, kayaks and canoes)

FT#2 1:30-4 p.m., Chocowinity Bay (30 people, kayaks and canoes)

FT#3 9:30 a.m-noon, Estuarium/Pamlico River (30 people, kayaks)

FT#4 1:30-4 p.m., Estuarium/Pamlico River (30 people, kayaks)

FT#5 9:30 a.m.-noon, Goose Creek State Park (30 people, kayaks and canoes)

FT#6 9:30-5 p.m., Pamlico Point and Goose Creek Island (50 people and kayaks)



REGISTRATION FORM Coastal Plain Waters 2001



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