National Park Service U.S. Department of the Interior

Social Science Program



Expedited Approval for	or NPS-Sponsored Public Surveys
1. <b>Project Title</b> Submission Date:	Visitor management and transportation system use at Cumberland Island National Seashore – Phase II1/11/2011
2. Abstract:	The purpose of this study is to gather information that will help support visitor management, carrying capacity, and transportation system decisions at Cumberland Island National Seashore. A quantitative survey of both general visitors and wilderness visitors will be conducted to 1) assess visitor opinions regarding their experiences and a range of related potential management alternatives at this site, 2) assess visitor opinions regarding the design of planned transportation services, and 3) gather data to help formulate standards of quality for the visitor experience. The survey will be conducted onsite with visitors who do not receive a wilderness permit, and as a mail survey with visitors who do receive a wilderness permit. Approximately 500 surveys will be conducted. This survey is the second phase of a two-phase project; the survey content is informed by results from a Phase I survey approved as OMB Number: 1024-0224 (NPS # 09-009)
3. <b>Principal Investigat</b>	tor Contact Information
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4. Park or Program L	iaison Contact Information
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Title:	Chief, Resource Management
Park:	Cumberland Island National Seashore
Park Office/Division:	
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roject Information	
5. <b>Park(s) Where Research</b> is to be Conducted:	Cumberland Island National Seashore
6. Survey Dates:	2/28/2011 (mm/dd/yyyy) to 12/31/2012 (mm/dd/yyyy)
7. Type of Information Collect	tion Instrument (Check ALL that Apply)
X Mail-Back Questionnaire	e <u>X On-Site Questionnaire</u> <u>Face-to-Face</u> Telephone Survey Focus Interview Group
8. Survey Justification: (Use as much space as needed; if necessary include additional explanation on a separate page.)	<ul> <li>Social science research in support of park planning and management is mandated in the NPS Management Policies 2006 (Section 8.11.1, "Social Science Studies"). The NPS pursues a policy that facilitates social science studies in support of the NPS mission to protect resources and enhance the enjoyment of present and future generations (National Park Service Act of 1916, 38 Stat 535, 16 USC 1, et seq.). NPS policy mandates that social science research will be used to provide an understanding of park visitors, the non-visiting public, gateway communities and regions, and human interactions with park resources. Such studies are needed to provide a scientific basis for park planning, development, operations, management, education, and interpretive activities.</li> <li>Management Justification: Recent legislation requires the development of a public transportation system within Cumberland Island National Seashore (P.L. 108-447, Sect. 145). The information collected in this study will enhance current park planning and management efforts by determining visitor preferences and use levels for the planned transportation system. Also, little empirical information exists regarding the trip characteristics, needs, and attitudes of visitors to CUIS. This research will provide such information and help guide planning efforts to design and operate a transportation system in a manner that protects the quality of the visitor experience while providing visitors greater access to Cumberland Island.</li> <li>Previous studies conducted on visitor use (or social science-related studies in general) at CUIS are limited. The following studies have been published:         <ul> <li>(1) Brooks, J., R. Warren, M. Nelms, and M. Tarrant. (1999). Visitor attitudes toward and knowledge of restored bobcats on Cumberland Island National Seashore Georgia. <i>Wildlife Society Bulliten</i>, vol. 27, no. 4</li> <li>(2) Littlejohn, M. (1999) <i>Cumberland Island National Seashore Visitor Study, Spring 1998, Report 1</i></li></ul></li></ul>

Survey Methodology: (Use as much space as needed; if necessary include additional explanation on a separate page.)

## (a) Respondent universe:

The sample universe will be all visitors who are (1) visiting Cumberland Island National Park (2) age 18 or older, and (3) are at the park between February 28, 2011 and December 31, 2012.

(b) Sampling plan/procedures:

## **On-site Survey**

Approximately 250 self-administered surveys will be conducted on-site with visitors. A random systematic sampling protocol (e.g., after a random start, asking every n<sup>th</sup> visitor group departing at the CUIS ferry dock) will be used to select respondents. Visitors will be intercepted as they depart at the ferry dock on Cumberland Island. The survey will be self-administered, although the researcher will be available to assist respondents if needed. One individual will be selected from each group to complete the survey. This individual will be chosen from the group by selecting the person with the most recent birthday. If the individual chosen or the group refuses to participate in the survey, then the next eligible group to arrive at the ferry dock or to board the ferry will be asked to participate. Sampling will occur on approximately 14 days during this time period, in 7 day segments. These two segments will occur in the Spring, (March/April) and Summer (July/August). The proportion of the surveys collected during each period to the total 250 survey collected will be equal to the proportion of visitor use during that timeframe to total CUIS visitation. All contacts with visitors will be made by research staff from Clemson University and the University of Vermont.

## Mail Survey

An almost identical survey will be conducted by mail with 250 Cumberland Island visitors who received a wilderness/backcountry camping permit. A list of wilderness/backcountry camping permit holders (and their contact information) will be provided by CUIS staff. Research staff from Clemson University and the University of Vermont will then send surveys to all of these past permit holders (approximately 500). The wilderness survey will be mailed to past permit holders in Spring 2011. Wilderness survey participants will be asked to return the survey by mail in a self-addressed stamped envelope. A follow-up postcard and reminder letter will be sent to those who received a wilderness survey. The survey administration for this mail-back survey is based upon Dillman's Tailored Design Method (TDM). The TDM has been shown to increase response rates, improve accuracy, and reduce cost and burden hours. The TDM has been successfully used in over 200 previous NPS studies. A mail format for the wilderness survey is necessary because wilderness use levels are relatively low and intercepting an adequate sample of wilderness visitors on-site is impractical.

## (c) Instrument administration:

For the on-site survey, park visitors will be approached by university research staff and asked to participate in the study. University research staff will be on-site during each of the three, week-long sampling segments.

The following script will guide the introduction:

Hi, my name is \_\_\_\_\_\_. I'm from Clemson University. We're helping the National Park Service gather information to guide visitor use management and development of a transportation system at Cumberland Island National Seashore. Would you be willing to fill out a questionnaire about your experience at Cumberland Island National Seashore? Participation is voluntary and your responses will be anonymous. The questionnaire will take about twenty minutes.

If No: OK. Thank you for your time. Have a good day.

If "yes": OK. Thank you for agreeing to participate. Here is the survey for you to

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		experienc individual phase wild 009) – had wildernes	le size for the wilderness e in conducting similar of ls contacted by mail will derness visitor survey at d a response rate of 67.3° s/backcountry permit ho pate in the study.	lata gather be willing CUIS - Ol %]. This s	ing, it is to parti MB Nun uggests	expected cipate in t nber: 1024 that 417	that 60% o he survey. 4-0224 (NP	f [The first S # 09-
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10. Total Number of Initial Contacts	Onsite 278	<b>Mail</b> 417	11. Estimated Time to Complete Initial Contact	<b>Onsite</b> 1	Mail 5	12.	Burden Hours	Initial 88
Expected			Estimated					Expected 118

Estimated Time to Complete Instrument

(mins.):

20

20

206

Total:

Expected Respondents:

250

250

13. Reporting Pla
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